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PLEASE CHECK FOR CHANGE INFORMATION AT THE REAR OF THIS MANUAL.

7912AD PROGRAMMABLE DIGITIZER

SERVICE
VOL II

INSTRUCTION MANUAL

Tektronix, Inc.
P.O. Box 500
Beaverton, Oregon 97077

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INSTRUMENT SERIAL NUMBERS

Each instrument has a serial number on a panel insert, tag, or stamped on the chassis. The first number or letter designates the country of manufacture. The last five digits of the serial number are assigned sequentially and are unique to each instrument. Those manufactured in the United States have six unique digits. The country of manufacture is identified as follows:

B000000	Tektronix, Inc., Beaverton, Oregon, USA
100000	Tektronix Guernsey, Ltd., Channel Islands
200000	Tektronix United Kingdom, Ltd., London
300000	Sony/Tektronix, Japan
700000	Tektronix Holland, NV, Heerenveen, The Netherlands

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SAFETY SUMMARY

This manual contains safety information which the user must follow to ensure safe operation of the instrument. The following safety information and precautions must be observed during all phases of operation and maintenance.

Terms and Symbols

WARNING statements identify conditions or practices that could result in damage to the equipment or property.

CAUTION statements identify conditions or practices that could result in damage to the equipment or other property.

DANGER, as it appears on equipment, identifies areas of immediate hazard that could result in personal injury or loss of life.

DANGER - High Voltage

Protective ground (earth) terminal.

Power Source

The 7912AD is intended to operate from a power source that does not apply more than 250 volts rms between the supply conductors or between either supply conductor and ground. A protective-ground connection by way of the grounding conductor in the power cord is essential for safe operation.

Ground the Instrument

The 7912AD is grounded through the grounding conductor of the power cord. To avoid electric shock, plug the power cord into a properly wired receptacle before connecting to 7912AD inputs or outputs.

Use the Proper Power Cord

Use only the power cord and connector specified in the parts list. Use only a power cord that is in good condition.

Use the Proper Fuse

To avoid fire hazard, use only the fuse specified in the parts list for your instrument; use a fuse which is identical in type, voltage rating, and current rating.

Do not Operate in an Explosive Atmosphere

To avoid explosion, do not operate this instrument in an atmosphere of explosive gases unless it has been specifically certified for such operation.

Do Not Service Alone

Do not perform internal service or adjustment of this instrument unless another person capable of rendering first aid and resuscitation is present.

Use Care When Servicing With Power On

Dangerous voltages exist at several points in this instrument. To avoid personal injury, do not touch exposed connections and components while power is on.

Disconnect power before removing protective panels, soldering, or replacing components.

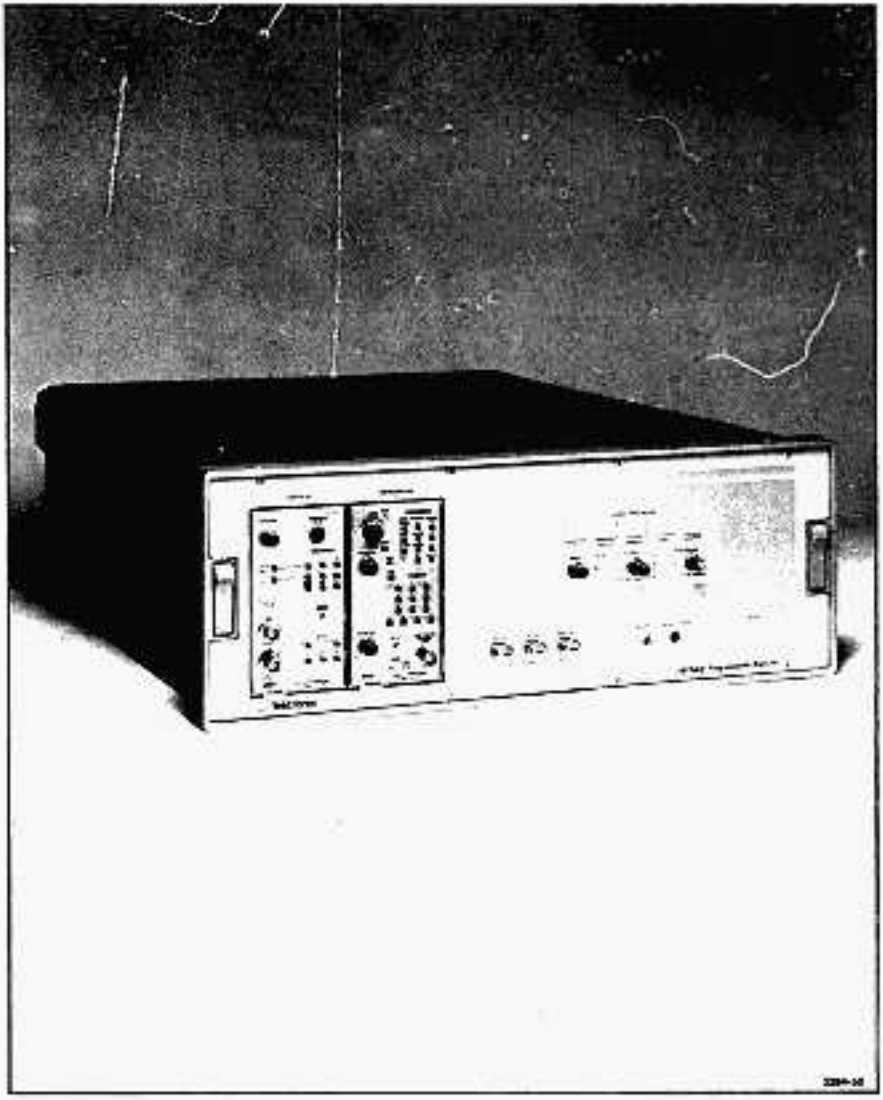
PREFACE

This service manual is provided to assist in the service and repair of the 7912AD Programmable Digitizer. It is intended for qualified service personnel only.

Volume I contains an introduction to the 7912AD and operating and programming information to help the service person understand and operate the instrument. A block diagram and detailed circuit description follow.

Volume II contains maintenance information and a calibration procedure. At the rear are electrical and mechanical parts lists and electrical and mechanical diagrams.

For more operation and programming information, see the 7912AD Operators Manual. For a full discussion of the IEEE 488 bus to which this instrument can be interfaced, see IEEE Standard 488-1975, the IEEE Standard Digital Interface for Programmable Instrumentation.



The 7912AD Programmable Digitizer with programmable plug-ins.

SECTION 4

INSTALLATION AND MAINTENANCE

Instructions in this section cover 7912AD installation, system configuration, and maintenance.

Installation

WARNING

During rackmount installation, interchanging the left and right slide-out track assemblies defeats the extension stop (safety latch) feature of the tracks. Equipment could, when extended, come out of the slides and fall from the rack, possibly causing personal injury and equipment damage.

When mounting the supplied slide-out tracks, inspect both assemblies to find the LH (left hand) and RH (right hand) designations to determine correct placement. Install the LH assembly to your left side as you face the front of the rack and install the RH assembly to your right side. Refer to the rackmounting instructions in this manual for complete information.

Installing the 7912AD in a Rack

Hardware is supplied with the 7912AD to mount it in a standard 19-inch rack. Part numbers and drawings of the hardware are shown with the accessories in the mechanical parts list found in the back of the manual. The 7912AD is supplied with the chassis slide tracks already in place.

The following dimensions in the rack are required:

Rack rail hole spacing	0.500 inches	(1.27 cm)
Min. rack depth	27.5 inches	(70 cm)
Min. width between rack rails	17.650 inches	(44.8 cm)

To attach the hardware to the rack, refer to Fig. 4-1 and follow this procedure:

1. Adjusting for the depth of the rack, attach the rear support plates to the stationary slide tracks with bolts and barnuts. Do not fully tighten the bolts. For shallow racks, the rear support plates can be reversed as shown in Fig. 4-2. However, the rack must allow the 7912AD to extend out the rear of the rack.

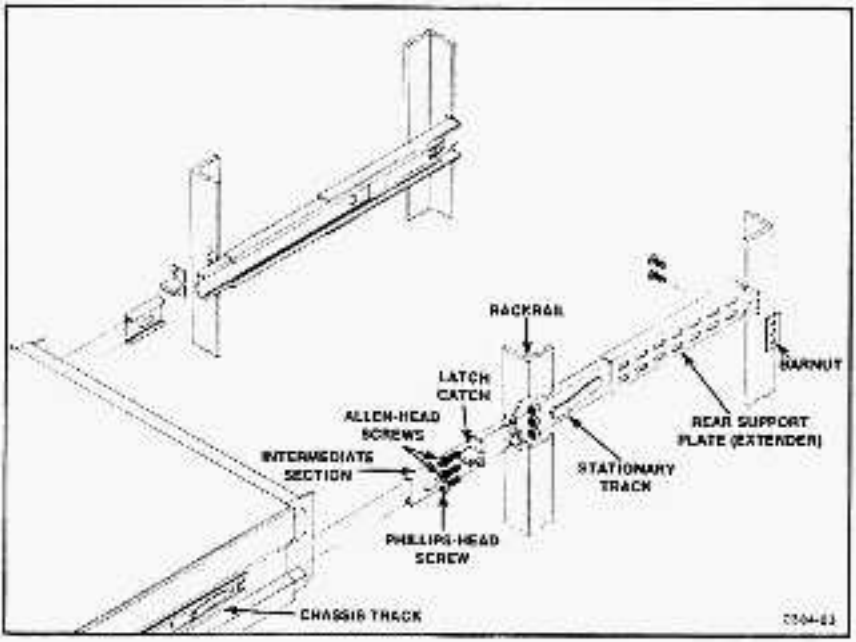


Fig. 4-1. Assembling the 7912AD rackmounting hardware.

2. Install the latch catches on the front rack rails. The catch for the right and the one for the left are not the same. Install each so the slots are toward the outside and the lip of the catch points down. Install a nut on the top screw of each if the rack rail is not threaded.

3. Install the assembled stationary tracks and rear supports. The right and left tracks are not the same; compare them to the chassis slide tracks on the sides of the 7912AD to install correctly. Use nuts or barnuts at the rear if the rack rail holes are not threaded.

4. Tighten the rack rail bolts enough to secure the stationary track and rear support, but still allow movement. Fully tighten the bolts that attach the rear supports to the stationary tracks.

5. Slide the intermediate sections into the stationary tracks so they lock in their extended positions.

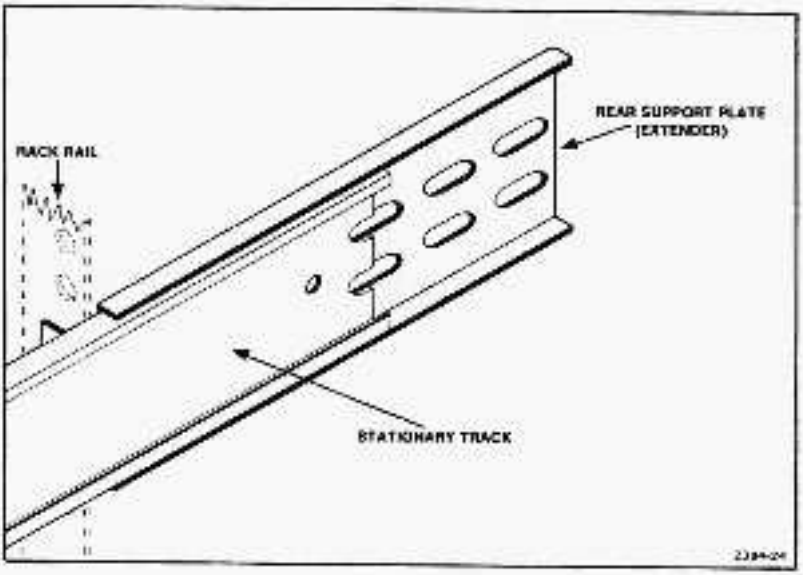


Fig. 4-2. Reversing the rear-support plates for a shallow rack.

5. Carefully lift the 7912AD into place so the chassis tracks align with the intermediate sections (this may require two people). Slide the 7912AD chassis tracks into the intermediate sections and push the instrument part way into the rack.

7. The sliding track sections should align themselves as the 7912AD is pushed into the rack. Tighten all bolts with the sections aligned.

8. Push the 7912AD into place in the rack and check that the latches catch properly. The tracks are prelubricated and should slide freely.

Before operating the 7912AD, check the environmental and physical specifications at the end of Section 1; the operating temperature and airflow requirements of the instrument must be met. Be sure there is nothing blocking the fan intake (screen on rear panel).

Cabling

Depending on the use of the 7912AD, make some or all of the following connections.

1. Connect one of the COMPosite Video OUTputs (either LINEAR or BINARY) to a compatible video monitor with a 75-ohm coaxial cable. Compatible monitors include the TEKTRONIX 634 Monitor and the 650- and 670-Series Picture Monitors. See the video output specifications in Section 1 to determine compatibility with other monitors. Refer to the monitor manuals for correct connection at the monitor and for operating information. Normally, a 75-ohm termination is required.

2. Connect the SYNC OUTput to the monitor external sync input, if desired. Also, external sync can be applied to the 7912AD video output through the LOOP connectors. If the sync signal is not daisy-chained to another instrument, terminate LOOP in 75 ohms.

3. Connect the X, Y, and Z outputs to a compatible display monitor with coaxial cable. Compatible monitors include the TEKTRONIX 600-Series monitors. See the IEEE 488 interface specifications in Section 1 to determine compatibility with other monitors. Refer to the monitor manuals for correct connection at the monitor and for operating information. Because the signals are not very high frequency, the cable and termination impedances are normally not critical.

Connecting Power

1. With the power cord disconnected from the power source, set the line voltage selector switch to the correct position for the local AC power line voltage. Either 115 VAC, nominal, or 230 VAC, nominal, can be selected.

2. The 7912AD power cord is provided with a polarized, three-terminal power connector. If the connector does not match the power outlet, it is up to the user to replace the connector with one that meets local safety codes and connects the instrument for proper operation. Hook up a replacement connector according to the following chart:

Conductor	Color Code
Line	Brown (copper wire)
Neutral	Blue (tinned copperwire)
Safety-earth	Green with yellow stripe

3. Connect the 7912AD power cord to an AC power line with the correct voltage and frequency. See the power input specifications in Section 1 for more information on the power requirements of the 7912AD. Failure to supply the correct voltage and frequency on the AC power input can damage the instrument.

WARNING

To avoid electric shock, be sure that the protective-ground circuit is not interrupted. This can allow the chassis to float to hazardous potentials. Be sure that the power cord, plug, and outlet provide a secure path to earth (ground) for the protective-ground circuit of the 7912AD.

4. Set the PRINCIPAL POWER SWITCH on the 7912AD rear panel to ON.

5. Connect input signals at the rear panel, if desired. Three inputs are provided: VERT IN, CAL IN, and TRIG IN. These connect directly through 50-ohm coaxial cable to, respectively, VERT OUT, CAL OUT, and TRIG OUT on the front panel. These straight-through connections are intended for routing signals through the instrument to the front panel for connection to the plug-ins. The VERT and CAL paths are very high bandwidth through rigid coaxial cable. For details, see the Feedthrough Connectors specification in Section 1.

6. If remote power control of the 7912AD is desired, connect a device capable of placing a TTL active low on the 7912AD ACTUATE connector (rear panel). The 7912AD asserts a TTL active low on its ENABLE output when turned on to provide a daisy-chain path for the remote power control signal. The ENABLE signal is delayed slightly to space out the power-up surges if more than one instrument in the system is connected in this manner. See the power supply specifications in Section 1 for more information.

Configuring an IEEE 488 System

A typical IEEE 488 system includes a controller, a talker, and one or more listeners. More than one function can be combined in a single instrument as is the case in the 7912AD, which can be set either to talk or to listen by the controller. A system including a controller and the 7912AD is shown in Fig. 4-3.

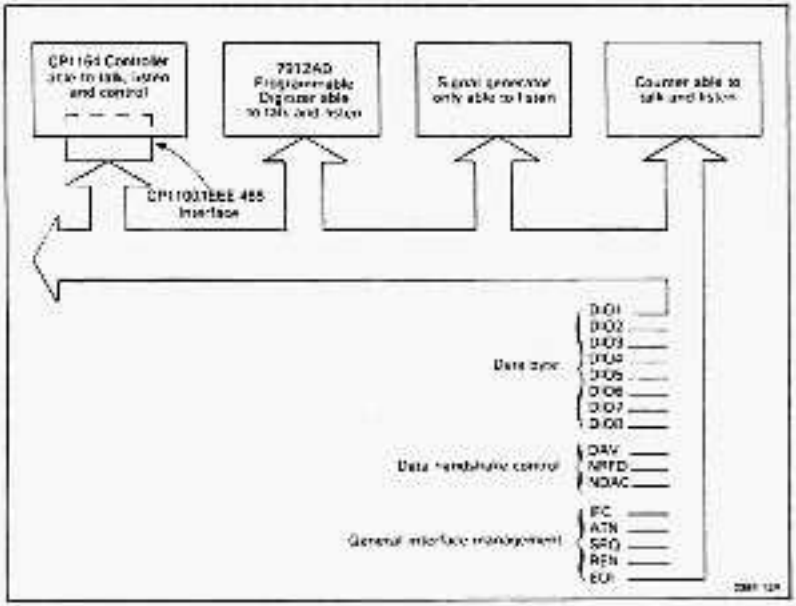


Fig. 4-3. An IEEE 488 system showing some typical instruments connected to the bus.

Up to 15 devices, separated by no more than 20 meters total cable length, can be interfaced to a single IEEE 488 bus. More than 15 devices can be interfaced if they do not connect to the bus but are interfaced through another device. Such a scheme is used for programmable plug-ins housed in the 7912AD mainframe; the 7912AD provides a transparent interface between the bus and the plug-ins.

IEEE 488 is a flexible system -- it works either in a star or linear configuration (Fig. 4-4). To maintain the bus electrical characteristics, a device load must be connected for each two meters of cable and more than half the devices connected at any time must be powered-up. Although devices are usually spaced no more than two meters apart, they can be separated farther if the required number of device loads are lumped at any point.

To interface the 7912AD to an IEEE 488 system, connect the IEEE 488 cable supplied with the 7912AD between the rear-panel IEEE 488 port and the nearest instrument connected to the bus. If the system only includes the 7912AD and a controller, the two-meters-per-instrument rule allows the cables from the two instruments to be connected for a total of four meters in bus length between the controller and instrument.

Selecting IEEE 488 Bus Addresses

Two sets of switches on the IEEE 488 Interface card (A56) select the primary and secondary addresses for the 7912AD and programmable plug-ins (if used). The switches are shown in Fig. 4-5.

S400 assigns either a one or a zero to each of the lower five bits in the 7912AD primary bus addresses, My Talk Address (MTA) and My Listen Address (MLA). These bits are identified as T5 through T1 of MTA and L5 through L1 of MLA in the IEEE 488 standard. Values are assigned according to the following:

Address Bit	S400 Switch #
T5, L5	1
T4, L4	2
T3, L3	3
T2, L2	4
T1, L1	5

S402 assigns either a one or a zero to each of the lower five bits in the 7912AD My Secondary Address (MSA). These bits are identified as S5 through S1 in the IEEE 488 standard. Values are assigned according to the following:

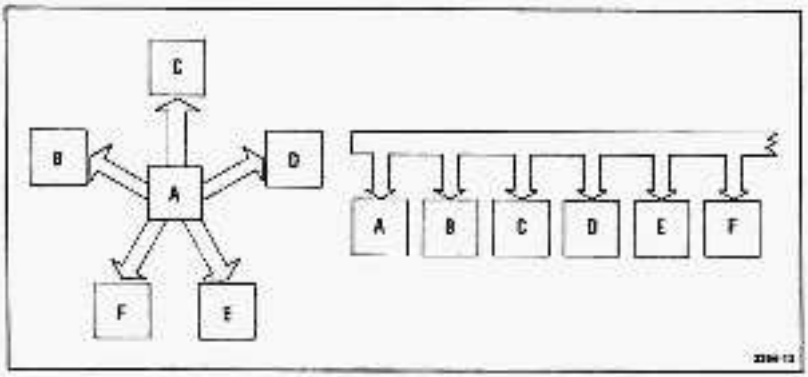


Fig. 4-4. An IEEE 488 system can be configured in either a star or linear manner.

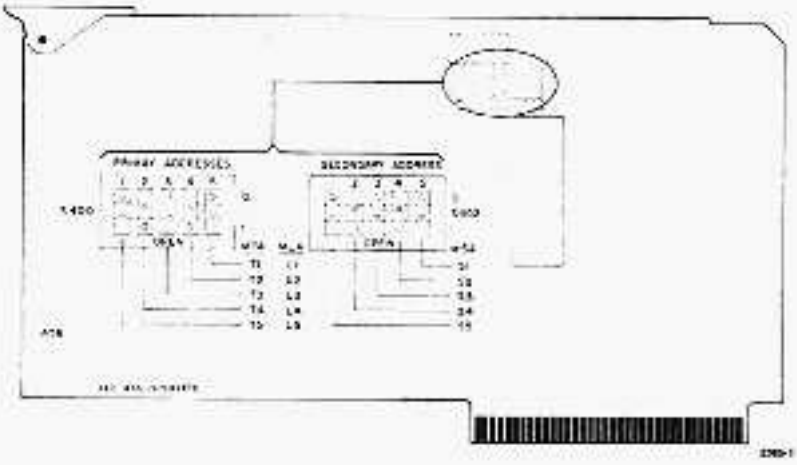


Fig. 4-5. The 7912AD IEEE 488 bus address switches.

Address Bit	S402 Switch #
S5	1
S4	2
S3	3
S2	4
S1	5

Programmable plug-ins in the 7912AD respond to the same primary bus addresses as the mainframe. The 7912AD MSA is used to determine the plug-in MSAs according to the following:

Plug-in Compartment	MSA
VERTICAL	7912 MSA + 1
HORIZONTAL	7912AD MSA + 2

For the first instrument connected to a controller with TEK SPS BASIC Software, the recommended bus addresses are:

7912AD Address	Value (hex)
MTA	20
MLA	40
MSA	60

For the above recommended addresses, set all switches on S400 and S402 to zero (up). Increment these addresses for each instrument added to the system.

To select other addresses, check the requirements in the IEEE 488 standard. Also, if programmable plug-ins are used, select a 7912AD MSA no higher than 7C (hex).

Selecting Internal Jumpers

Jumpers on circuit boards in the 7912AD shown on the following figures are set to the standard position.

Memory Control (A16). Jumpers on P331, P333, P431, and P433 are set at the factory as shown in Fig. 4-6. These settings should not be changed. P701 is set according to the scan mode -- standard or option 4 (fast scan).

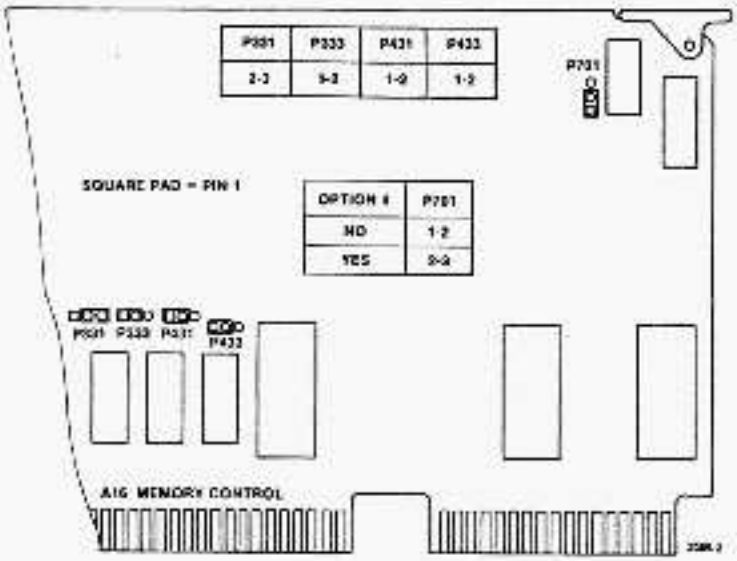
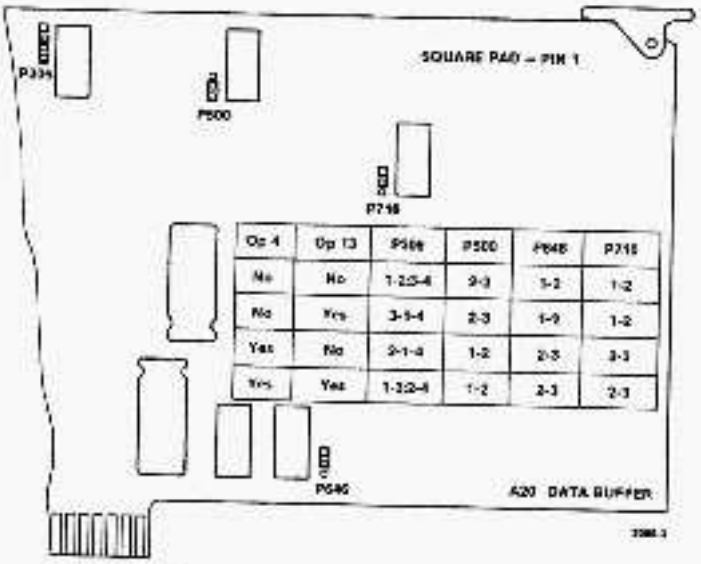


Fig. 4-6. Memory Control board (A16) jumper positions.

Data Buffer (A20). Jumpers on P306, P500, P646, and PT10 are set according to both the scan mode -- standard or option 4 (fast scan) -- and the TV scan rate -- standard (525 lines/frame) or option 13 (625 lines/frame). The standard and optional jumper positions are shown on Fig. 4-7.

Translator (A22). Jumpers on the Translator board shown on Fig. 4-8 configure the T912AD for testing, for IEEE 488 system compatibility, and for scan mode.

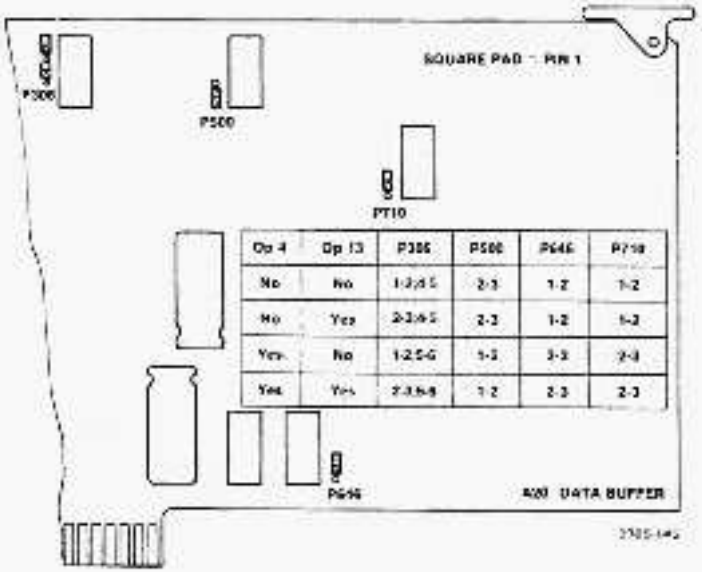


Op 4	Op 13	P500	P646	P715
No	No	1-2,3-4	2-3	1-2	1-2
No	Yes	3-5-4	2-3	1-2	1-2
Yes	No	2-1-4	1-2	2-3	3-3
Yes	Yes	1-2,3-4	1-2	2-3	2-3

Fig. 4-7. Data Buffer board (A20) jumper positions (SN B109999 & Below).

For instruments with serial numbers B111165 and below, a jumper on P300 is set to enable or lock-out diagnostic commands. The instrument is shipped with this strap set to the TEST position (jumper pins 2 and 3). To disable the diagnostic commands, jumper pins 1 and 2 (WORK position). In this position, the 7912AD reports a command error if the diagnostic commands are used. Instruments with serial numbers above B111165 have the diagnostic commands permanently enabled.

The 7912AD has a build in time-out on the main and graticule intensities. When the instrument is in repetitive sweep mode, the intensities will time-out in approximately five minutes. The TIME-OUT OCCURRED message will appear on the TV monitor. The effect of jumper P300 on instruments S/N B111165 and above is to enable or disable this time-out function. See Fig. 4-8 for jumper positioning.



Op 4	Op 13	P300	P500	P646	P710
No	No	1-2,4-5	2-3	1-2	1-2
No	Yes	2-3,4-5	2-3	1-2	1-2
Yes	No	1-2,5-6	1-2	2-3	2-3
Yes	Yes	2-3,5-6	1-2	2-3	2-3

Fig. 4-7A. Data Buffer board (A20) jumper positions (SN B110000 & Up).

A jumper on P410 is set according to the message delimiter used in IEEE 488 bus data transfers. Its effect is described under Command Syntax in Section 2. The position of this jumper is read by the 6802 MPU to determine whether it is to respond to the EOI bus signal line or to the ASCII line feed (LF) character.

A jumper on P411 is set according to the scan mode -- standard or option 4 (fast scan).

Jumpers on P700, P800, and P850 can be set for direct control of three operating parameters from the front panel. Normally, they should be set to RUN. If necessary for servicing, however, they can be set to CAL.

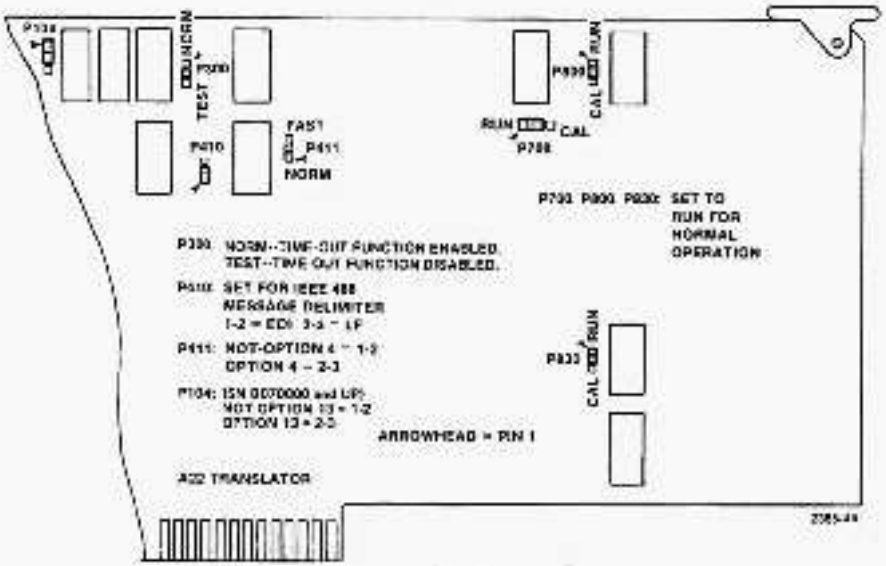


Fig. 4-8. Translator board (A22) jumper positions.

CAUTION

Setting P700 and P800 to other than RUN (pins 1 and 2) bypasses the 6900 MPU intensity protection for graticule intensity and main intensity respectively. Set the intensity controls carefully. Too high an intensity level can immediately damage the scan converter target.

The jumpers, the parameters affected, and the jumper positions are as follows:

	Parameter	RUN	CAL
P700	Graticule intensity	1-2	2-3
P800	Main intensity	1-2	2-3
P830	Focus	1-2	2-3

Graticule Generator (A24). A jumper on P040 is set to gate the graticule generator. For normal operation, jumper pins 1 and 2 as shown in Fig. 4-9. In this position, the graticule generator is gated after each time base sweep. For servicing, pins 2 and 3 can be jumpered instead to free-run the graticule generator; in this mode, it operates repetitively, whether or not it is gated by the time base sweep.

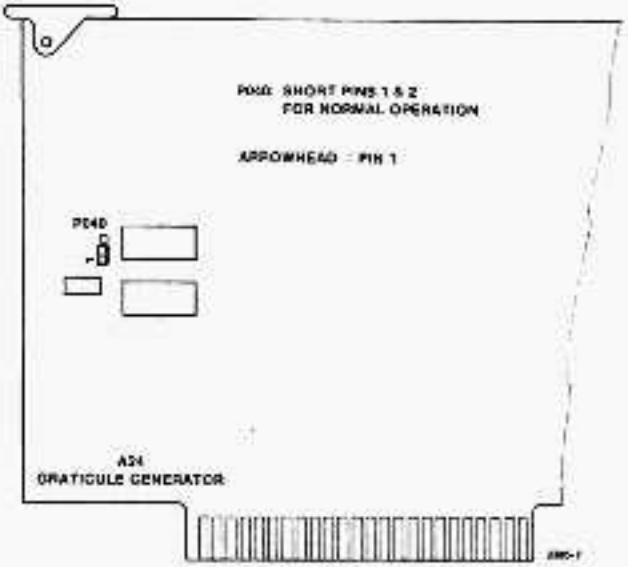


Fig. 4-9. Graticule Generator board (A24) jumper positions.

X & Y Ramp Generator (A26). Jumpers on P010, P030, P900, P930, P1000, and P1030 are set according to the scan mode -- standard or option 4 (fast scan). The standard and optional jumper positions are shown on Fig. 4-10.

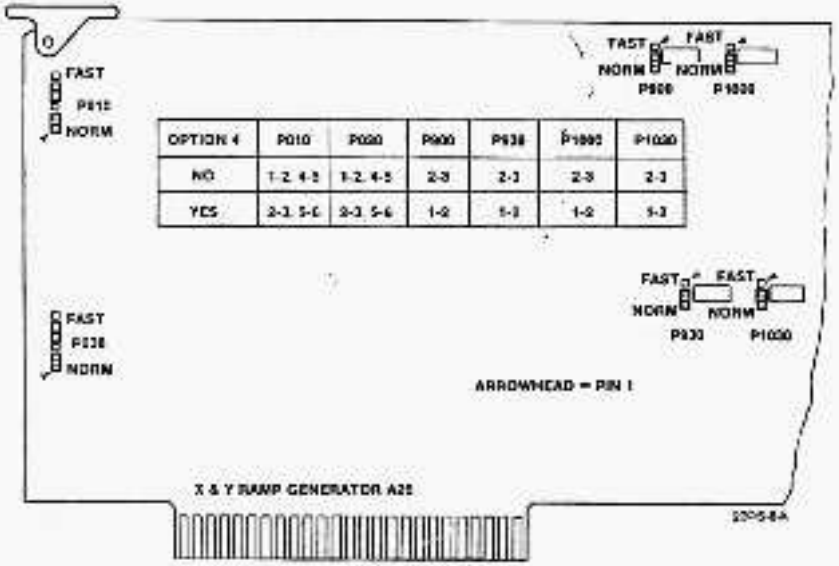


Fig. 4-10. X & Y Ramp Generator board (A26) jumper positions.

Video Processor & Scan Control (A28). A jumper on P104 is set for the TV scan rate -- standard (525 lines/frame) or option 13 (625 lines/frame) -- as shown in Fig. 4-11.

Always jumper pins 1 and 2 and jumper pins 4 and 5 on P646.

Plug-In Interface (A46). Jumpers on P420 and P630 (or P512 and P516 for SN B010053? & Up) are set according to the scan mode--standard or option 4 (fast scan). Set the jumpers as shown in Fig. 4-12 (SN B100836 & Below) or Fig. 4-14A (SN B100837 & Up).

MPU (A54). Set the jumpers on P012, P224, P216, and P234 (P910 only for S/N B110000 and up) to SYN for normal operation as shown in Fig. 4-13. Other positions are used only for special purposes during debugging.

IEEE 488 Interface (A56). A jumper on P300 selects the XYZ display mode as shown on Fig. 4-14. Jumper pins 1 and 2 for normal operation; pins 2 and 3 are provided for address mapping as a test aid.

Always jumper P002 between pins 1 and 2.

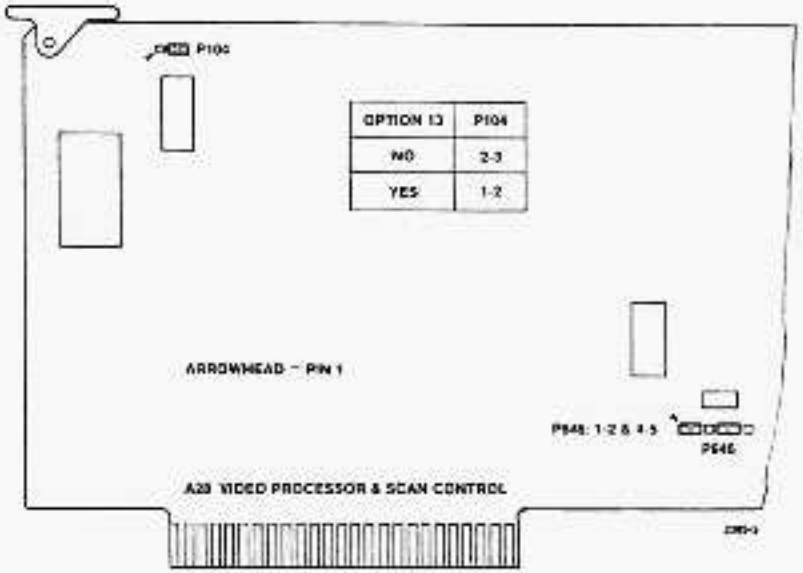


Fig. 4-11. Video Processor & Scan Control board (A28) jumper positions.

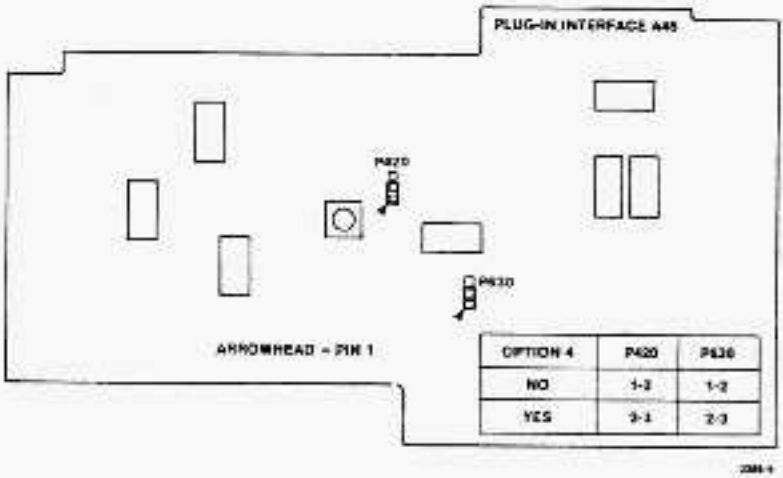


Fig. 4-12. Plug-In Interface board (A46) jumper positions (SN B100836 & Below).

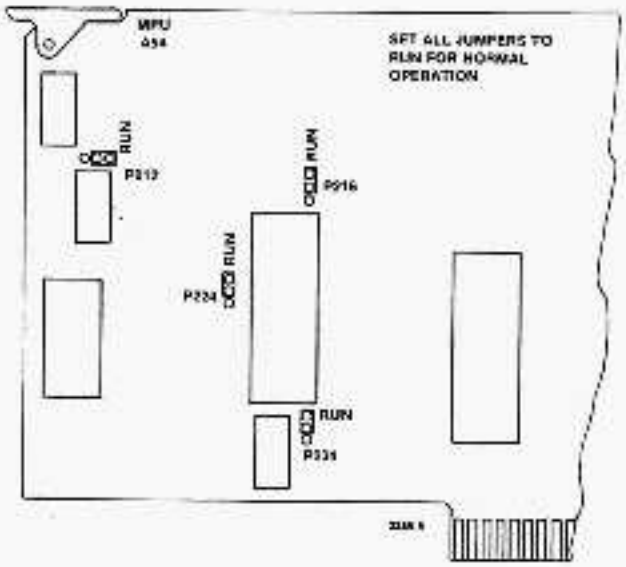


Fig. 4-13. MPU board (A5A) jumper positions (SN 3109999 & Below).

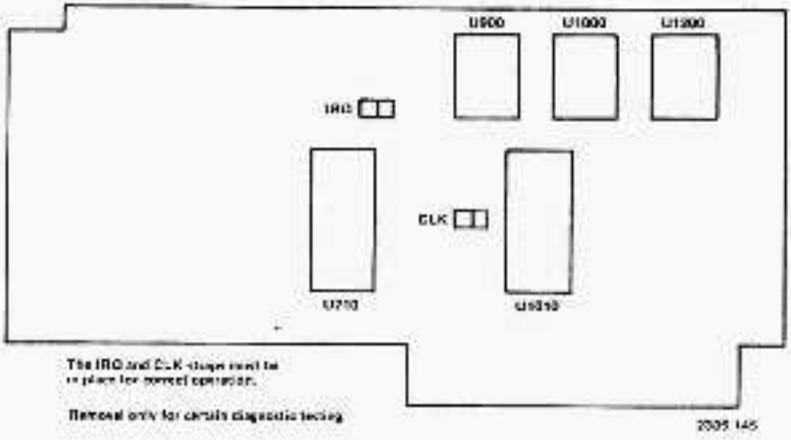


Fig. 4-13A. MPU board (A5A) jumper positions (SN B110000 & Up).

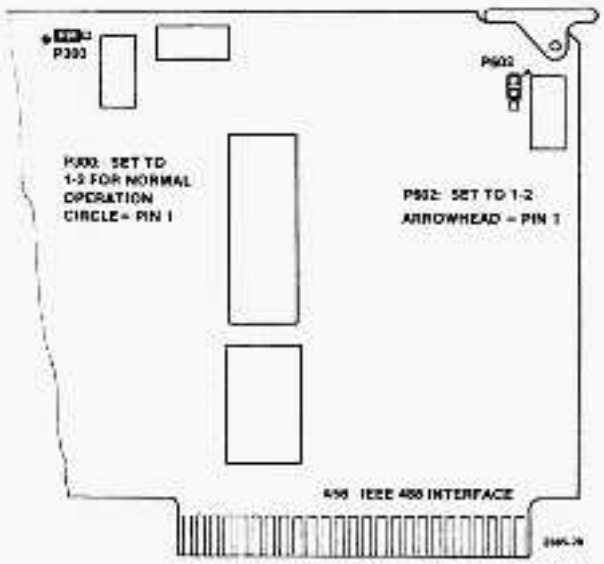


Fig. 4-14. IEEE 488 Interface board (A56) jumper positions.

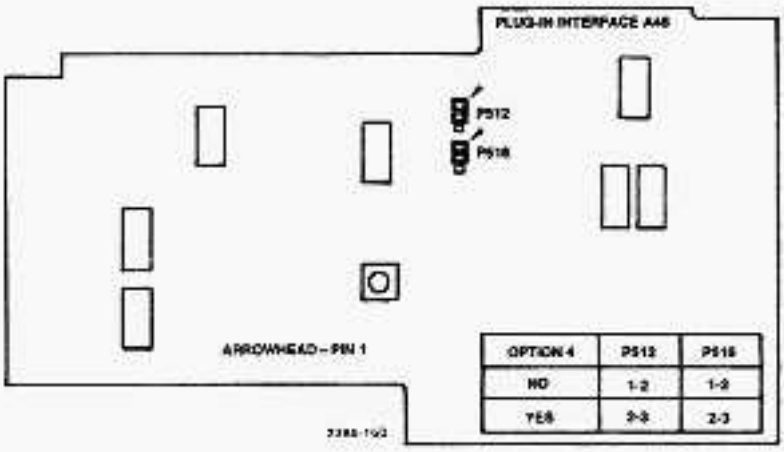


Fig. 4-14A. Plug-In Interface board (A46) jumper positions (SN B100837 & Up).

Preventive Maintenance

Preventive maintenance, consisting of cleaning, visual inspection, etc., performed on a regular basis, will improve the reliability of this instrument. Periodic checks of the semiconductor devices used in the unit are not recommended as a preventive maintenance measure. See semiconductor-checking information given under Troubleshooting.

The severity of the environment to which this instrument is subjected determines the frequency of maintenance. A convenient time to perform preventive maintenance is preceding adjustment of the instrument.

Cleaning

CAUTION

Avoid the use of chemical cleaning agents which might damage the plastics used in this unit. In particular, avoid chemicals that contain benzene, toluene, xylene, acetone, chlorethane, or similar chemicals.

Exterior. Loose dust may be removed with a soft cloth or a dry brush. Dirt that remains can be removed with a soft cloth dampened with a mild detergent and water solution. Abrasive cleaners should not be used.

Interior. Dust on the interior of the unit should be removed occasionally due to its electrical conductivity under high humidity conditions. Cleaning the interior of the unit should precede calibration, since the cleaning process could alter the settings of the calibration adjustments. Use low-velocity compressed air to blow off the accumulated dust. Hardened dirt can be removed with a soft, dry brush, cotton-tipped swab, or cloth dampened with a mild detergent and water solution.

Visual Inspection

This instrument should be inspected occasionally for such defects as broken connections, improperly seated semiconductors, damaged circuit boards, and heat-damaged parts.

The corrective procedure for most visible defects is obvious. However, particular care must be taken if heat-damaged components are found. Overheating usually indicates other trouble in the instrument; therefore, it is important that the cause of overheating be corrected to prevent recurrence of the damage.

Lubrication

There are no components in this instrument that require a regular lubrication program during the life of the instrument.

Grid Bias Maintenance Adjustment

The 7912AD writing gun grid bias may require adjustment as often as every 100 hours of operation to ensure that the writing rate specifications are met. The following procedure allows the adjustment to be made without removing the instrument covers.

WARNING

Failure to comply precisely with this procedure can result in damage to the CRT.

Required Equipment

TV monitor
500 kHz sine wave generator
Time base plug-in
Amplifier plug-in

1. Turn the 7912AD on and allow it to warm up for at least three hours in the normal operating environment.

2. Connect the 7912AD BINARY VIDEO OUT to the TV monitor video input.

3. Set time base controls for 10 microseconds/division, SOURCE to UNI, MAG to X10 (on). The readout will indicate 1 microsecond/division.

4. Connect the 500 kHz signal source to the amplifier plug-in vertical input. Set the VOLTS/DIV for an 8-division waveform.

5. Turn the 7912AD MAIN INTENSITY control clockwise until the DECREASE INTENSITY indicator lights.

6. Carefully adjust R632, GRID BIAS, through the hole near the rear of the right side cover for a full sine wave display with only slight blooming of the rising portion.

7. Turn the 7912AD MAIN INTENSITY control fully counterclockwise (off). Disconnect the test equipment.

Troubleshooting

Troubleshooting Aids

Schematic Diagrams. Schematic diagrams are provided on foldout pages in Section 7. The circuit number and electrical value of each component are shown on the diagrams. Power supply voltages are also shown. Components that are mounted on circuit boards are enclosed on the diagrams with a heavy black line.

Circuit-Board Illustrations. Illustrations of circuit boards are shown opposite the schematic diagrams. Each board-mounted electrical component is identified by its circuit number.

Main Interconnect (A68) Connectors Diagram. This diagram, Fig. 7-42, shows the pinout of the connectors on the Main Interconnect board. A table is also provided that lists all the signals routed through the Main Interconnect Board and their connections in alphabetical order.

Component-Locator Grids. Schematic diagrams and circuit-board illustrations are bounded by component-locator grids. When used with the associated lookup tables, these grids allow you to quickly locate a component on either the schematic or the circuit board.

Calibration and Wiring Diagrams. The Calibration and wiring diagrams show the locations of the adjustments referenced in the calibration procedure. Locations of cables and wires connecting to each board are also shown.

Component and Wiring Color Code. Colored stripes or dots on resistors and capacitors signify electrical values, tolerances, etc., according to the EIA standard color code. Components not color coded usually have the value printed on the body.

The insulated wires used for interconnection in the 7912AD are color coded to facilitate tracing wires from one point to another in the unit.

Semiconductor Lead Configuration. The lead configurations of the semiconductor devices used in this instrument are shown in Fig. 4-15.

Troubleshooting Equipment

The following equipment is useful for troubleshooting the 7912AD.

1) **Semiconductor Tester** -- Some means of testing the transistors, operational amplifiers, comparitors, diodes, and FET's used in this instrument is helpful. A transistor-curve tracer such as the TEKTRONIX Type 577-177 or 577-178 will give the most complete information.

2) **Multimeter** -- A voltmeter is required for checking voltages within the circuits, and an ohmmeter for checking resistors and diodes. The voltmeter should have an input impedance of at least 10 megohms, a range of at least 0 to 50 volts DC, and an accuracy of 0.01%. The ohmmeter should have a range of 0 to 20 megohms.

3) **Test Oscilloscope** -- A test oscilloscope (with DC-100 MHz bandwidth) is required to view waveforms at different points in the circuits. A TEKTRONIX 7000-series Oscilloscope equipped with a readout system, 7D13 Digital Multimeter unit, 7B-series Time-Base unit, and a 7A-series Amplifier unit with a 10X probe will meet the needs of both items 2 and 3.

4) **Plug-in Extender** -- This fixture permits operation of the 7912AD outside of the plug-in compartment for better accessibility during troubleshooting. Order TEKTRONIX Part Number 067-0589-00.

5) **Logic Analyzer** -- A logic analyzer, such as the TEKTRONIX 7D01 is required to view many of the digital signals in the 6600 and 2900 systems. The TEKTRONIX 8P2 Display Formatter enhances the 7D01's usefulness in troubleshooting IEEE 488 interface and bus problems.

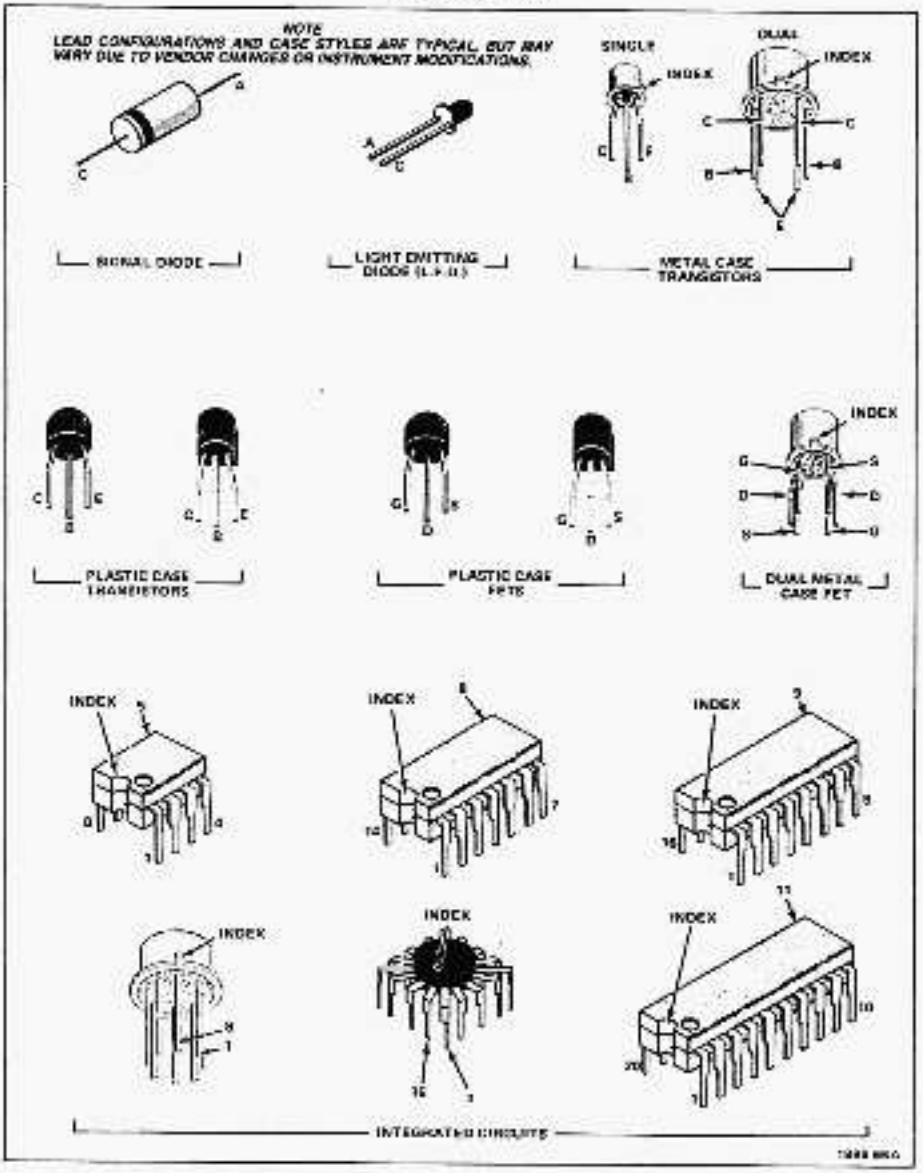


Fig. 1-15. Semiconductor lead configurations.

7912AD Checkout Software

Checkout Software for the 7912AD is provided as a standard accessory in the instrument. The software is provided in two versions - one designed to run under IEEE 488 BASIC and one for 4051 BASIC. Providing that the instrument is capable of communicating over the IEEE 488 bus, the software provides go/no-go testing of the command set used during normal operation of the 7912AD. It is not intended to diagnose problems down to the chip level. When a fault is detected, an error message is printed to provide service personnel the maximum amount of information concerning the fault.

For a complete checkout, the software requires the use of programmable plug-ins in the 7912AD. Refer to the Checkout Software manual for more information.

Troubleshooting Procedure

This troubleshooting procedure is arranged in an order which checks the simple trouble sources before proceeding with extensive troubleshooting. The first few checks ensure proper connection, operation, and adjustment. If the trouble is not located by these checks, the remaining steps aid in locating the component. When the defective component is located, it should be replaced using the replacement procedure given under Corrective Maintenance.

1) **Check Control Settings.** An incorrect setting of the 7912AD controls can indicate a problem that does not exist. If there is any question about the correct function or operation of a control or front-panel connector, refer to the operating instructions provided in Section 2.

2) **Check Associated Equipment.** Before proceeding with troubleshooting of the 7912AD, check that the equipment used with this instrument is operating correctly. If possible, substitute known good equipment for any equipment in question, and see if the problem persists. Check that any interconnecting cables are not defective.

3) **Visual Check.** Visually check the portion of the instrument in which the trouble is suspected. Many problems can be located by visual indications such as unsoldered connections, broken wires, damaged circuit

boards, damaged components, or components bent over and touching other parts or circuit board runs.

4) **Check Instrument Adjustment.** Check the adjustment of the unit or the affected circuit by performing the Calibration Procedure in Section 5. The apparent trouble may only be a result of mis-adjustment and may be corrected by calibration.

5) **Isolate Trouble to a Circuit.** To isolate trouble to a circuit, note the trouble symptom. The symptom often identifies the circuit in which the trouble is located. When trouble symptoms appear in more than one circuit, check the affected circuits by taking voltage readings. Incorrect operation of all circuits sometimes indicates trouble in the power supply.

After the defective circuit has been located, proceed with step 6 to locate the defective components.

6) **Check Individual Components.** The following methods are provided for checking the individual components. Components which are soldered in place are best checked by disconnecting one end to isolate the measurement from the effects of surrounding circuitry.

CAUTION

To avoid component damage, disconnect the power source before removing or replacing semiconductors.

NOTE

To locate intermittent or temperature sensitive components mounted on the circuit boards, Quik Freeze (Miller Stephenson, MS-240, TEKTRONIX Part Number 006-0173-01) is recommended. Spray can of dichloro-difluoromethane (Freon 12, Dupont or Can-D-Gas) may also be used.

A) TRANSISTORS. The best check of transistor operation is actual performance under operating conditions. Transistors that are soldered to the circuit board should first be checked in-circuit using a dynamic transistor tester; then a replacement can be substituted to further verify that the old transistor is bad. Socketed transistors can be

checked immediately by substituting a known good component; however, be sure that circuit conditions are not such that a replacement might also be damaged. If substitute transistors are not available, check the old transistor out-of-circuit using a dynamic tester (such as the TEKTRONIX Type 577-177). Static-type testers may be used, but since they do not check operation under simulated operating conditions, some defects may go unnoticed. Be sure the power is off before attempting to remove or replace any transistor.

B) INTEGRATED CIRCUITS. Analog IC's such as comparitors and operational amplifiers can usually be checked in-circuit with a voltmeter or test oscilloscope. An understanding of the device and circuit operation is essential for this type of troubleshooting. (For example, an op amp can be tested by measuring the input and output circuit voltages and comparing this ratio to the ratio of input and feedback resistors.) Analog IC's that are socketed can also be checked out-of-circuit using a dynamic tester such as the TEKTRONIX 577-178.

Digital IC's are best checked in-circuit using a logic probe or voltmeter. Use care when checking voltages and waveforms around DIP (Dual-In-line-Package) IC's so that adjacent leads are not shorted together. A convenient means of connecting a test probe to 14- and 16-pin IC's is with an IC test clip. This device also doubles as an extraction tool.

C) DIODES. A diode can be checked for an open or shorted condition by measuring the resistance between terminals with an ohmmeter set to the R X 1k scale. The diode resistance should be very high in one direction and very low when the meter leads are reversed. A diode can also be tested with a dynamic tester (transistor curve tracer).

CAUTION

Do not use an ohmmeter scale that has a high internal current. High currents may damage the diodes under test.

C) RESISTORS. Check resistors with an ohmmeter. Resistor tolerance is given in the **Electrical Parts List**. Resistors normally do not need to be replaced unless the measured value varies widely from the specified value.

8) CAPACITORS. A leaky or shorted capacitor can be detected by checking resistance with an ohmmeter on the highest scale. Use an ohmmeter that will not exceed the voltage rating of the capacitor. (Be careful to observe correct polarity when checking electrolytic capacitors.) The resistance reading should be high after initial charge of the capacitor. An open capacitor can best be detected with a capacitance meter, or by checking whether the capacitor passes AC signals.

9) Repair and Readjust the Circuit. Replace the defective component or assembly. Be sure to check the performance of any circuit that has been repaired or that has had any electrical components replaced. Recalibration of the affected circuit may be necessary.

Using the Diagnostic Commands

For S/N B109999 and below (6800 μP). Three diagnostic commands allow the user to enter and run routines on the 6800 MPU system. Access to the MPU memory space via the IEEE 488 bus is gained by setting a strap on the Translator board (A22) -- see Selecting Internal Jumpers earlier in this section. These commands should be used with caution: used improperly, they can put the 7912AD into illegal modes of operation.

For S/N B110000 and up (6802 μP). Three diagnostic commands allow the user to enter and run routines on the 6802 MPU system. Access to the MPU memory space via the IEEE 488 bus is gained by using the diagnostic commands. These commands should be used with caution: used improperly, they can put the 7912AD into illegal modes of operation.

All S/N's. The diagnostic commands are GET, PUT, and EXC. They are sent to the 7912AD in the same manner as the commands in Section 2, requiring that the instrument first be made a listener. In addition, to examine a 6802 memory location with the GET command, the 7912AD must be

made a talker after receiving the GET in order for it to return the memory contents. Formats for the commands are shown with characters in bold that are to be transmitted exactly as stated and characters in brackets that are command elements to be supplied by the user.

PUT. The format for the put data command is:

PUT B <ADRS>,B<VAL>

ADRS is an address in 6802 memory space specified by one to four hexadecimal digits. VAL is the bit pattern to be set at that memory location specified by two hexadecimal digits.

GET. This is a device-dependent command -- it is not the same as the group execute trigger (GET) interface message. The format for the get data command is:

GET B<ADRS>

ADRS is an address in 6802 memory space specified by one to four hexadecimal digits.

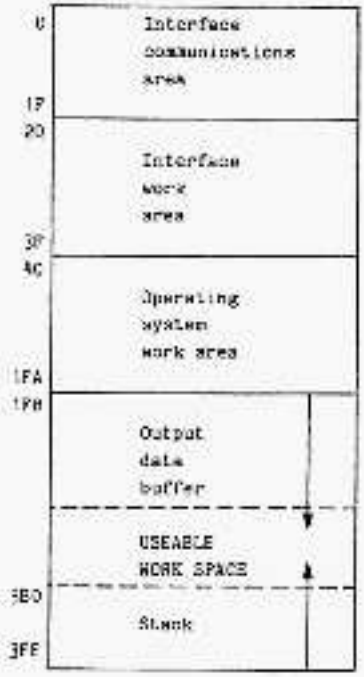
EXC. The format for the execute command is:

EXC ADRS

ADRS is an address in 6802 memory space specified by one to four hexadecimal digits.

The 5802 MPU performs a JSR instruction to the address specified by the execute instruction. It expects to find a subroutine that returns control to the operating system with standard subroutine linkage. Use caution if interrupts are to be disabled as part of the subroutine since this disables the MPU firmware intensity protection.

User subroutines should be confined to 6802 RAM space between the output data buffer and the stack. This leaves a useable work space of about 450 bytes depending on the amount of output buffer required by the subroutine and the amount of stack space required by subroutine nesting. The RAM space is shown in the following memory map (addresses are in hexadecimal):



Diagnosing Power-Up Problems

Because the front-panel is controlled by the 6802 MPU operating system, any problem in the MPU system is likely to become apparent at power-up. A power-up routine in firmware allows a logical attack on such a problem.

Setup. The 7912AD should be connected to a TV monitor; plug-ins (with readout) should be installed. The instrument should not be connected to an IEEE 488 bus.

Required Equipment. The minimum equipment to trace problems that become apparent at power-up is an oscilloscope with a 10X probe. If a logic probe is substituted, it may be necessary to connect its strobe to (MPU CK 2 for S/N B109999 and below), (MPU clock E for S/N B110000 and up) so the probe does not respond to glitches between cycles. A more effective tool would be a logic analyzer, such as the TEKTRONIX 7D01. Extender boards included in the 7912AD Calibration Kit (listed in the required equipment for the calibration procedure) may be useful.

Step 1. Does the ON/OFF button light? If it does, proceed to step 2. If the button does not light, or does not stay lighted when released:

a. Check that the power cord is plugged into an active power source with the correct voltage.

b. Check that the rear-panel PRINCIPAL POWER SWITCH is ON.

c. If a and b check ok, the problem lies in the power supply or the ON/OFF switch, which bypasses the 6802 MPU.

Step 2. Do the DIGITAL and REMOTE buttons light? The DIGITAL and REMOTE lights should come on momentarily when power is applied. If not, the problem may be on the Translator Board (A22) or in the front-panel wiring.

Step 3. Do the TV and LOCAL buttons light? As part of its power-up routine, the 6002 MPU lights DIGITAL and REMOTE, then turns them off after about two seconds and lights TV and LOCAL . If this occurs, skip to step 4. Failure to do this indicates a failure at some point in the power-up routine. This routine brings up the 6002 MPU and the 2000 memory controller in an orderly manner, assures correct instrument operation in so far as it can be checked, sets instrument modes to a predetermined state, and alerts the IEEE 488 bus controller-in-charge that the instrument has powered up. In case of failure, the routine hangs the 6802 MPU at an address that points to the failure.

Before proceeding to diagnose the MPU, however:

a. **S/N B109999 and below.** Check the MPU system power supplies, +5.1 V, -5.2 V, -2 V, and +15 V at the test points on the Power Connector board (A62).

a. **S/N B110000 and up.** Check the MPU system power supplies, +5.1 V and +15 V at the test points on the Power Connector board (A62).

b. **S/N B109999 and below.** Check the MPU system clocks. The clocks are derived from 10 MHz supplied by the Data Buffer (A20); it can be checked at B13 of the MPU (A54) edge connector. This signal is available on the B13 pad of the connector on the bottom of the Main Interconnect board (A68) -- see Fig. 7-42 for the pinout. The 6800 clocks, CK1 and CK2, are available at B16 and A19 of the edge connector, respectively, and CK2 is also available at A11 or B1 of the diagnostic connector on the back of the Main Interconnect, P614. $\overline{\text{STROBE}}$, a 100-nanosecond pulse near the center of the CK2 on-time, is available at B30 of the edge connector or B11 of P514. CK1, CK2 and $\overline{\text{STROBE}}$ are all generated on the MPU board (A54) for S/N B109999 and below.

b. **S/N B110000 and up.** Check the MPU system clocks. The clocks are derived from 10 MHz supplied by the Data Buffer (A20); it can be checked at B13 of the MPU (A54) edge connector. This signal is available on the

B13 pad of the connector on the bottom of the Main Interconnect board (A58) -- See Fig. 7-42B for the pinout. The 6802 clock E is available at A19 of the edge connector. STB, a 100-nanosecond pulse near the center of the clock E on-time, is available at B30 of the edge connector. Clock E and STB are all generated on the MPU board (A54).

c. For the MPU to power-up, $\overline{RST}$ must be generated for 750 milliseconds. Check that this signal (bottom of R112 on A54, S/N B109999 and below); (A14 of the A54 edge connector, S/N B110000 and up) goes low for 750 milliseconds after power is turned on and then goes high. If it does not, check that PON (B15 of the A54 edge connector) goes low for 750 milliseconds after turn-on and then goes high. PON is generated by the power supply. $\overline{RST}$ of the MPU board.

To find out if the 6802 is hung, and if so, what it means, look at the 6802 address bus. These signals are available on the MPU edge connector pads on the bottom of the Main Interconnect. The lower 12 address lines are buffered; the upper three lines are decoded to represent blocks of memory -- see diagram 15 for the decoding scheme. With the MPU board on an extender, all the above lines can be accessed at either the IC pins or the edge connector pads on the MPU board.

CAUTION

Turn off 7912AD power before removing or installing any circuit boards or circuit board extenders.

All addresses are given in hexadecimal.

d. If the 6802 address bus does not indicate that the MPU is hung in a tight loop in the range 7CXX, then a problem is indicated on either the MPU board (A54) or the MPU memory board (A52) for (S/N B109999 and below); problem is indicated on the MPU board (A54) (S/N B110000 and up).

c. If the 6802 is hung in a tight loop, compare the address or addresses to the following:

7C1F – The 6802 vectors to 7C17 to start its power-up sequence. Its first action is to clear the main and graticule intensity levels, although this is not apparent since the instrument is still in digital mode. The 6802 MPU then writes the value of each address into the pair of bytes at that address in RAM.

7C2E to 7C35 – If the 6802 hangs in this sequence of code, it is failing to load the RAM or the 6802 is not executing instructions properly.

7C3A to 7C43 – Hanging here results from a failure to read the RAM or an execution problem while reading back and verifying RAM contents.

7C47 – A loop at this address indicates the RAM contents did not match the word stored.

7C4C to 7C59 – Within this sequence the 6802 is reading, complementing, writing, and verifying each byte of RAM.

7C5D – A loop here indicates the RAM contents did not match the byte written.

7C5F to 7C68 – When the 6802 executes the code at these addresses, it clears all RAM locations.

7C6D to 7C75 – All RAM is verified to be zero.

7C79 – A loop at this address indicates a RAM location did not clear.

7C83 to 7C8A – A fault on the MPU board can cause a hang here.

f. **For S/N B109999 and below:** Faults detected above may be isolated to the MPU board (A54) or the MPU Memory board (A52). Faults involving the following addresses occur during ROM tests, however, and can indicate a problem on either of these two boards or the IEEE 488 Interface board (A56), since it also contains ROM. In addition, if a ROM fault is detected while testing the IEEE 488 Interface board ROM, it may mean there is a problem on the 6800 buffered data bus; this could involve the Translator A22) or Memory Control (A16) as well as the interface. ROMs are checked beginning with the power-up ROM (7C00) and then the operating system beginning at the highest address and continuing down through decreasing addresses with the Interface ROM (4000) last.

f. **For S/N B110000 and up:** Faults detected above may be isolated to the MPU or the MPU Memory. Faults involving the following addresses occur during ROM tests, however, and can indicate a problem in either of these two areas. ROMs are checked beginning with the power-up ROM (7000) and then the operating system, beginning at the highest address and continuing down through decreasing addresses with the Interface ROM (2000) last.

7C8C to 7C88 - Within this loop, the 6802 verifies that each ROM is at the correct address.

7CA6 to 7C88 - Within this smaller loop, the 6802 MPU verifies the ROM checksums by summing all memory locations in each ROM.

7CBD - Indicates a bad ROM checksum.

7CBF - Indicates wrong ROM at an address.

7CC1 = Start of initializing routine. The routine system status, sets the status byte for power-up (hex 41), clears the error query response, clears communication buffers, and enables interrupts. If other status byte conditions occur, they are stacked and reported after power-up.

Step 4. Are the scale factors displayed? When the 6802 finishes its power-up routine, it turns control over to the monitor portion of the firmware. The monitor reads and displays the scale factors. If this occurs, skip to step 5. If not, it indicates the power-up routine did not complete. The most likely cause is an interrupt problem.

a. Check to see if address line 15 pulses high every 500 milliseconds. This can indicate the 6802 is repetitively servicing an interrupt. If so, check to see if HWF (B14 of the MPU edge connector) is asserted or PDN (B15 of the edge connector) is unasserted. The source of these signals is the power supply.

b. Check to see if A15 pulses high every 100 milliseconds or faster. If so, check the following interrupt lines. If asserted, the problem may be isolated to the indicated board or boards.

DFI (A20 of edge connector) — Translator (A22) or MPU (A54).

IOI (A18 of edge connector) — IEEE 488 Interface (A56) or MPU (A54).

FMCI (A16 of edge connector) — Memory Control (A16) or MPU (A54).

FPI (A12 of edge connector) — Translator (A22) or MPU (A54).

SNDI (U702-9 of A54) -- Plug-ins, Plug-In Interface (A46) or MPU (A54). (S/N B109999 and below).

SND (U220-3 of A54) -- Plug-ins, Plug-In Interface (A46) or MPU (A54). (S/N B110000 and up).

If none of these interrupts is asserted, a fault in the MPU (A54) is indicated.

c. Check for a tight loop at 7DC9 to 7DCB, which may result in partial readout. This indicates a Translator (A22) or MPU (A54) fault.

d. **(S/N B109999 and below).** Check for a halt or tight loop on the 6800 address bus in the range 0019 to 27D5, the IEEE 488 initialization routine, indicated by pulses on $\overline{\text{IOSEL}}$ (B20 of the MPU edge connector). If the MPU is stuck in this range, check R-ATN (U500-6 on the IEEE 488 Interface board, A56); if R-ATN is asserted (IEEE 488 cable should have been disconnected), a fault on either the interface or MPU board is indicated. If R-ATN is not asserted, check $\overline{\text{7KNRFD}}$ (A40 on the MPU edge connector); if asserted, a problem is indicated in either plug-in, the Plug-In Interface (A46), or the MPU (A54).

d. **(S/N B110000 and up).** Check for a halt or tight loop on the 6802 address bus in the range 2819 to 25D5, the IEEE 488 initialization routine, indicated by pulses on $\overline{\text{IOSEL}}$ (B20 of the MPU edge connector). If the MPU is stuck in this range, check R-ATN (U500-6 on the IEEE 488 Interface board, A56); if R-ATN is asserted (IEEE 488 cable should have been disconnected) a fault on either the interface or MPU board is indicated. If R-ATN is not asserted, check $\overline{\text{7KNRFD}}$ (A40 on the MPU edge connector); if asserted, a problem is indicated in either plug-in, the Plug-In Interface (A46), or the MPU (A54).

e. If none of the above apply, check the 6802 address bus for a tight loop executed by the MPU. If one is found, compare it to the list of hardware-dependent loops given in the following steps.

Step 5. Are the front-panel intensity controls active? When the monitor (7E20 to 7E59) takes control, it sets the trace intensity in response to the front-panel settings while providing intensity protection. If the front-panel controls are not active, the power-up routine may not have completed. Check $\overline{SRQ}$ (pin 10 on the rear-panel connector) to see if it is asserted -- one of the last acts of the power-up routine. If not, return to step 4.

If $\overline{SRQ}$ is asserted, but the intensity controls are not active, the MPU may be stuck in one of the following hardware-dependent loops:

6350 to 6384 - MAIN INTENSITY control loop; waits for both pins 12 and 14 of U710 on the Translator (A22) to go low.

6394 to 63BE - GRATICULE INTENSITY control loop; waits for both pins 2 and 4 of U710 on the Translator (A22) to go low.

63CB to 63ED - FOCUS control loop; waits for both pins 12 and 14 of U740 on the Translator (A22) to go low.

Step 6. Does the instrument communicate over the IEEE 488 bus? If so, running the checkout software may help locate any remaining problems (connect instrument to an IEEE 488 bus controller). If the 7912AD does not respond to messages sent over the bus:

a. Is the IDI interrupt (A19 on the MPU edge connector) asserted? If so, a problem on the MPU is indicated.

b. If IDI is not asserted, check the 6502 address bus for a tight loop. If none is found, a problem on the IEEE 488 Interface (A56) is indicated. If the 6502 is executing a tight loop, compare it to the following addresses for an indication that the problem is related to a plug-in, the Plug-In Interface (A46), or the IEEE Interface. The following addresses are hardware-dependent loops related to the IEEE 488 bus commands:

645C to 6460 - Load input message buffer; waits for buffer full or terminator (EOI or LF).

65R2 to 65R6 - Load common header in output buffer; calls output busy loop (661E).

661B to 6629 - Output busy; waits for output in progress to complete; calls MCD busy loop (25D1).

66B1 to 66B5 - Local/remote processor; calls MCD busy loop (25E1).

68C3 to 68CT - Digitize defects; calls MCD busy loop (25E1).

693E to 6942 - Digitize on GET; waits for GET interface message.

699E to 69A2 - GRAT command handler; waits for PMCT interrupt.

69B8 to 69BC - GRAT ON handler; calls MCD busy loop (25E1).

69CD to 69D1 - GRAT OFF handler; calls MCD busy loop (25E1).

6A00 to 6A04 - Mode TV handler; calls MCD busy loop (25E1).

6A40 to 6A44 - Focus handler; calls MCD busy loop (25E1).

6A61 to 6A65 - MAI handler; calls MCD busy loop (25E1).

6AA8 to 6AAC - GAI handler; calls MCD busy loop (25E1).

6D7C to 6D80 - Repeat command handler; calls output busy loop (661E).

6D9B to 6D9F - Repeat handler; calls output busy loop (661B).

6DF2 to 6DF6 - READ command handler; calls output busy loop (661E).

6E08 to 6E0C - READ command handler; calls output busy loop (661B).

70B9 to 70BD - DUMP command; calls output busy loop (661B).

7496 to 749A - GET byte (diagnostic); calls output busy loop (661E).

78C5 to 78CB - TV interrupt handler; waits for PMCI interrupt.

S/N 0109999 and below:

4188 to 4197 - IOI handler; waits for $\overline{\text{7KSND}}$ to stay false.

41A0 to 71AE - IOI handler; waits for DATVAL flag false.

41EF to 420F - 7KSRQ handler; waits for $\overline{\text{7KSRQ}}$ to stop toggling.

4205 to 4252 - $\overline{\text{DAV}}$ handler; waits for $\overline{\text{IFC}}$ or $\overline{\text{7KNDAC}}$ (unasserted).

42ED to 42FE - $\overline{\text{DAV}}$ handler; waits for $\overline{\text{IFC}}$ or $\overline{\text{7KNRFD}}$ (unasserted).

4387 to 4388 - $\overline{\text{ATN}}$ byte handler; waits for 7KNDAC (unasserted).

4567 to 4577 - CLRDZY, A7XFLS; waits for $\overline{\text{IFC}}$ or $\overline{\text{7KNRFD}}$ (unasserted) if plug-in is listener.

46AB to 46B0 - Send a byte on the IEEE 488 bus; waits for $\overline{\text{IFC}}$ or $\overline{\text{ATN}}$ and $\overline{\text{DAV}}$ or SENT from IEEE 488 interface.

475A to 4760 - $\overline{\text{IFC}}$ service; waits for $\overline{\text{IFC}}$ false.

S/N B110000 and up:

2988 to 2997 - IOI handler; waits for $\overline{\text{7KSND}}$ to stay false.

29A0 to 29AR - IOI handler; waits for DATVAL flag false.

29KP to 2AOF - TKSRQ handler; waits for $\overline{\text{7KSRQ}}$ to stop toggling.

2AD5 to 2AE2 - DAV handler; waits for IFC or $\overline{\text{7KNDAC}}$ (unasserted).

2AED to 2AFE - DAV handler; waits for IFC or $\overline{\text{7KNRFD}}$ (unasserted).

2BB7 to 2BBB - ATN byte handler; waits for 7KNDAC (unasserted).

2D67 to 2D77 - CLRNRY, ATNFLS; waits for IFC or $\overline{\text{7KNRFD}}$ (unasserted) if plug-in is listener.

2EAB to 2EBD - Send a byte on the IEEE 488 bus: waits for $\overline{\text{IFC}}$ or $\overline{\text{ATN}}$ and $\overline{\text{DAV}}$ or SENT from IEEE 488 interface.

2F5A to 2F60 - IFC service; waits for IFC false.

252B to 252F - Memory Controller output: waits for output in progress to complete.

25CR to 2502 - Memory Controller busy loop; waits for PMCI interrupt.

25D4 to 25E0 - Memory Controller output busy loop; waits for PMCI interrupt.

25E1 to 25ED - Memory Controller digitize busy loop; waits for PMCI interrupt.

Step 7. Does the digitize operation complete? If the instrument hangs when a digitize operation is started:

a. Check the data buffer clock, $\overline{\text{EYCA}}$ (pin 14 of U3463 on the Data Buffer, A20). It should be a negative pulse with a 20 MHz repetition rate. A problem with this clock indicates a fault on the Data Buffer (A20).

b. If the clock is present, does DIG (B7 of the Data Buffer edge connector) go high when a digitize operation is initiated? If not, does $\overline{\text{PMCSYL}}$ (B18 of the MPU edge connector) pulse low when the operation is initiated? If it does, a Memory Control (A16) problem is indicated; if not, an MPU problem is indicated.

c. Does DIG return to a low level? If not, check first that $\overline{\text{SNPGATE}}$ (B28 of the Data Buffer edge connector) returns to a low state after it is asserted -- this can be assured by setting the time base for a repetitive sweep, in which case this pin should be toggling. If the data buffer receives a sweep gate, but does not respond by unasserting DIG after setting it high, check that the 2900 smart clock is running. Check CLK4CF (#5 of the Data Memory Interconnect board, A55, either connector) for a 4 MHz clock. If it is missing, the Data Buffer (A20), Memory Control (A16), or Data Memory (A18) boards can be suspected.

d. If DIG returns to a low level, does PMCI (#16 on the MPU, A54, edge connector) become asserted. If not, the problem probably lies on the Memory Control board (A16). If PMCI is asserted, the problem probably lies on the MPU (A54).

Step 8. Does the XYZ monitor display a digitized waveform? If the digitize operation completes (step 7), the waveform should be displayed on an XYZ monitor connected to the 7912AD. If not:

a. Check DISPLAY (U400-8 on the IEEE 488 Interface board, A56). If it is not asserted when the memory controller is not otherwise occupied (such as with IEEE 488 bus output), a problem on the IEEE 488 Interface or MPU is indicated.

b. Check $\overline{\text{LSEND}}$ (B39 on the Memory Control edge connector); this line should be pulsing to handshake data to the interface. If it remains unasserted and YSENT (A39) is asserted, or it remains asserted and YSENT

is unasserted, the IEEE 488 Interface is holding up the handshake. If $\overline{\text{LSEND}}$ is asserted and the interface is responding with YSENT asserted or if $\overline{\text{LSEND}}$ is not asserted and YSENT is not asserted, the Memory Control board is holding up the handshake.

c. Is B2M/2EN (A38 on the Memory Control edge connector) pulsing? If not, a fault on the Memory Control board is indicated.

d. Is DAC/6BV (B4 on the Memory Control edge connector) pulsing? If not, a fault on the Memory Control board is indicated. If it is, a fault on the IEEE 488 Interface is indicated.

Step 9. If the instrument communicates on the IEEE 488 bus, does it read out waveforms? Send DUMP RAW to the instrument, followed by its talk and secondary addresses, and then look for the following conditions:

a. Check that $\overline{\text{XMT}}$ (U100-2 on A56) is asserted. If not, the fault probably lies on the interface.

b. If $\overline{\text{XMT}}$ is asserted, is LSEND (B59 on the Memory Control edge connector) pulsing? If so, the problem lies on the interface board.

c. If $\overline{\text{LSEND}}$ is not asserted and YSENT (A39 on the edge connector) is asserted or if $\overline{\text{LSEND}}$ is asserted and YSENT is not asserted, the IEEE 488 interface is holding up the handshake. If $\overline{\text{LSEND}}$ is not asserted and YSENT is not asserted or if $\overline{\text{LSEND}}$ is asserted and YSENT is asserted, then Memory Control (A16) is holding up the handshake.

Step 10. Is the digitized data nonsense? If so, run a self-test by sending the TEST command.

a. If the instrument self-tests correctly and the data read over the IEEE 488 bus is the same as that seen on the XYZ monitor, the fault may lie on the Data Buffer (A20), the Data Memory (A18), or the Memory Control board (A16), in that order of probability.

b. If the instrument fails self-test, the problem probably lies on the Data Memory or Memory Control boards.

c. If the instrument passes self-test, but the data read over the IEEE 488 bus is different than that displayed on the XYZ monitor, the fault probably lies on the IEEE 488 Interface or the Memory Control board.

Corrective Maintenance

Corrective maintenance consists of component replacement and instrument repair. Special techniques required to replace components and assemblies are given here.

Obtaining Replacement Parts

Standard Parts. Most electrical and mechanical parts can be obtained through your local Tektronix field office or representative. However, you should be able to obtain many of the standard electronic components from a local commercial source. Before you purchase a part from a source other than Tektronix, check the electrical parts list for the proper value, rating tolerance and description.

Order all special parts directly from your local Tektronix Field Office or representative.

Ordering Parts. When ordering replacement parts from Tektronix, Inc., include the following information:

1) Instrument Type.

2) Instrument Serial Number.

3) A description of the part (if electrical, include circuit number found in the Replaceable Electrical Parts list - Section 7).

COMPONENT NUMBER EXAMPLE

4) TEKTRONIX Part Number.

Soldering Techniques

WARNING

Disconnect the instrument from the power source before soldering.

Circuit Boards. The components mounted on the circuit boards in the 7912AD can be replaced using normal circuit-board soldering techniques. Keep the following points in mind when soldering on the circuit boards:

1) Use a pencil-type soldering iron with a wattage rating from 15 to 50 watts.

2) Apply heat from the soldering iron to the junction between the component and the circuit board.

3) Heat-shunt the lead to the component by using a pair of long-nose pliers.

4) Avoid excessive heating of the junction with the circuit board, as this could separate the circuit board wiring from the base material.

5) Use only 60-40 rosin core, electronic grade solder.

6) Clip off any excess lead length extending beyond the circuit board. Clean off any residual flux with a flux-removing solvent.

Metal Terminals. When soldering metal terminals use 60-40 tin-lead solder and a 15 to 50 watt soldering iron. Observe the following precautions when soldering metal terminals:

1) Apply only enough heat to make the solder flow freely.

2) Apply only enough solder to form a solid connection. Excess solder may impair the function of the part.

3) If a wire extends beyond the solder joint, clip off the excess.

4) Clean the flux from the solder joint with a flux-removing solvent.

Microprocessor Operating System Firmware

Operating systems for the 6802 MPU and 2900 memory controller are contained in firmware. To determine the operating system installed, query the 7912AD with the ID? command. The response ends with FXX.YY where XX is the 6802 MPU firmware version number and YY is the 2900 memory controller firmware version number. The PROM locations are shown on Figs. 4-16 and 4-17. The value of the XX suffix shown on the part numbers may vary with the version number.

6800 Version 1 and 2. The following part-numbered PROMs contain the 6800 MPU operating system, version 1 and 2:

MPU Memory (A52)	U010	160-0093-01
	U020	160-0094-01
	U030	160-0095-01
	U040	160-0096-01
	U110	160-0097-01
	U120	160-0098-01
	U130	160-0099-01
	U140	160-0100-01
	U310	160-0101-01
	U320	160-0102-01
IEEE 488 Interface (A56)	U432	160-0112-01

6802 Version 3. The following part-numbered PROMs contain the 6802 MPU operating system, version 3:

MPU Board (A54)	U900	160-1900-00
	U1000	160-1899-00
	U1200	160-1901-00

2900 Version 1. The following part-numbered PROMs contain the 2900 memory controller microcode and microsequencer control PROM on the Memory Control board and the 2900 constant PROMs on the Data Memory boards:

Memory Controller (A16)	U321	160-0083-01
	U421	160-0085-01
	U423	160-0084-01
	U425	160-0092-01
	U521	160-0089-01
	U523	160-0088-01
	U621	160-0091-01
	U623	160-0093-01
	U723	160-0087-01
	U821	160-0086-01
Data Memory (A18)	U1302	160-0109-01
	U1312	160-0108-00

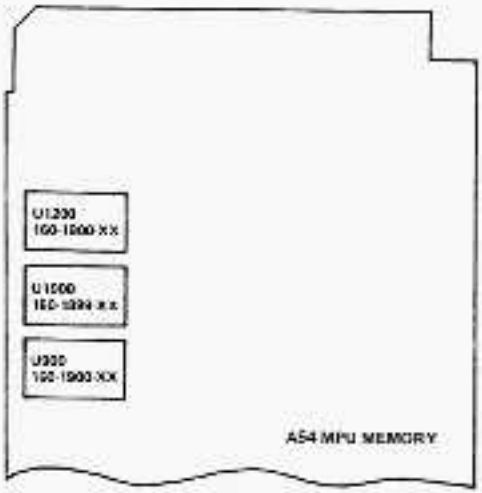
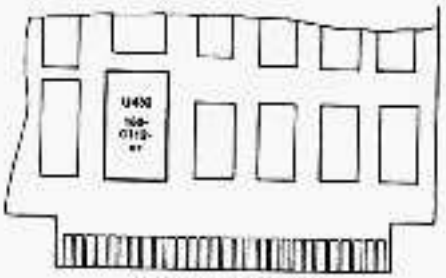


Fig. 4-16. Location of PROMs in the 6802 operating system (SN B110000 & Up).



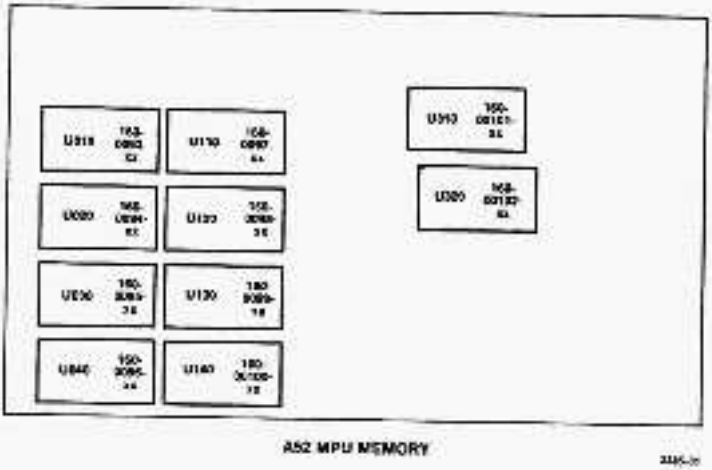
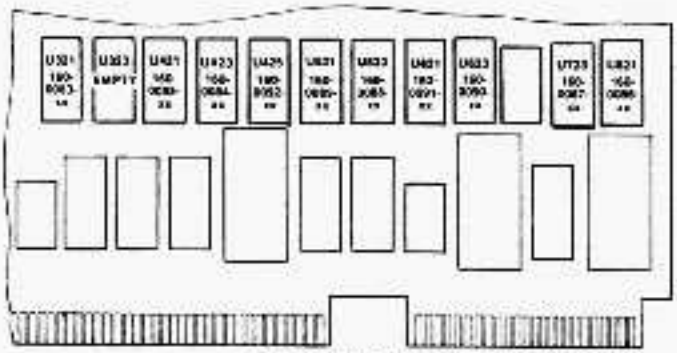
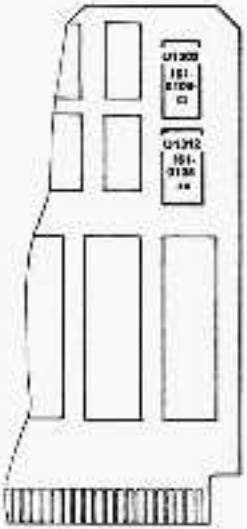


Fig. 4-16A. Location of PROMs in the 6800 operating system (SN B109999 & Below).



A18 MEMORY CONTROL



A18 DATA MEMORY

Fig. 4-17. Location of PROMs in the 2900 memory controller operating system.

Changing the Power Supply

Removing the Power Supply:

1. Turn off the PRINCIPAL POWER SWITCH.

2. Disconnect the power cord.

3. Remove the top cover of the 7912AD.

4. Disconnect the ground wire from the post on top of the chassis near the XYZ outputs.

5. Remove the screws at the corners of the power supply rear panel.

6. Slide the power supply back an inch or so.

7. Unplug the four power supply wire bundles from the Power Connector board (A62).

8. Slide the power supply out of the 7912AD chassis.

CAUTION

Allow several minutes for the input filter capacitors to discharge before removing the power supply covers.

Installing the Power Supply:

1. Check that the PRINCIPAL POWER SWITCH is off.

2. Check that the power cord is disconnected.

3. Check the power supply loads for proper resistances. Use a Triplett model 630 N-A VOM or equivalent. Remove the plug-ins and the right-side cover of the 7912AD. (All test points are on the SCAN AMP and READING GUN board (A38) shown on Fig. 7-5) in the diagrams section. Connect the VOM to the points indicated in Table 4-1.) The measurements in the REVERSE column can be made by changing the +/- switch on the VOM to (-).

TABLE 4-1

Power Supply Resistances					
POWER SUPPLY	METER RANGE	METER LEADS		APPROXIMATE READING	
		-COM	Y-U-A	NORMAL	REVERSE
+385	X1000	TP538	P532-pin 1	26K ohms	45K ohms
+130	X1000	TP535	P526-pin 8	8K ohms	10K ohms
+50	X100	TP538	P526-pin 6	440 ohms	440 ohms
+15	X100	TP538	P526-pin 5	95 ohms	95 ohms
+5	X100	TP538	P526-pin 4	55 ohms	55 ohms
-15	X100	TP538	P526-pin 2	100 ohms	100 ohms
-50	X100	TP538	P526-pin 1	1000 ohms	710 ohms

4. Insert the power supply partially into the 7912AD chassis, leading the four wiring bundles in so as to avoid pinching the wires.

5. Connect the four wire bundles to the Power Connector board (A62). The connectors are of different sizes to prevent mix-up and are keyed with arrowheads on the board and on the connector to indicate pin 1.

6. Insert the power supply fully, but carefully to avoid pinching the wires.

7. Connect the ground wire (green-yellow) to the post with the ground (safety earth) symbol near the HV2 outputs. Connect with a nut and integral lockwasher on top of the nut already on the post to secure the chassis.

8. Reinstall the four screws at the corners of the power supply rear panel.

9. Connect the power cord.

10. Turn on the PRINCIPAL POWER SWITCH.

Power Supply Maintenance Adjustments

If power supply components are replaced that will affect the main inverter or fan circuits, the following adjustments should be made. These adjustments are preset at the factory and need not be changed unless power supply components are replaced.

Adjusting the Inverter Frequency: The inverter frequency is set as follows while observing the ripple frequency.

1. Turn off the PRINCIPAL POWER SWITCH and disconnect the line cord.

2. Remove both plug-ins from the mainframe.

3. Set the 7912AD on its left side and remove the top and bottom covers.

4. Connect the vertical input of a test oscilloscope to TP604 on the Power Connector board (A62 - see Fig. 7-35 in the diagrams section). Connect the oscilloscope probe ground wire to chassis ground.

5. Set the oscilloscope input to AC coupling and a vertical deflection factor of 50 millivolts/division.

6. Reconnect the AC line cord and turn on the PRINCIPAL POWER SWITCH.

CAUTION

Dangerous voltages exist at several points in the instrument. Do not touch any exposed parts while the AC line cord is connected.

7. Power up the 7912AD.

8. Change the oscilloscope volts/division for approximately four divisions of vertical deflection.

9. Adjust R052 on the Inverter board (A32) for approximately 25 microseconds between major spikes.

10. Remove the oscilloscope probe and turn the 7912AD off.

Adjusting the Fan Voltage: The fan voltage is adjusted as follows to assure ventilation at low-line voltages.

1. Turn the 7912AD PRINCIPAL POWER SWITCH off and disconnect the line cord.

2. Remove the power supply as discussed in **Removing the Power Supply**.

3. Wait several minutes for the power supply capacitors to discharge.

CAUTION

The power supply input capacitors remain charged for several minutes after the power is disconnected. Allow the capacitors to discharge for several minutes before removing the covers. Use caution when working around these capacitors.

4. Remove the five screws holding the power supply cover and slide the power supply out of the cover.

5. Set a book or some other insulator on top of the shield at the rear of the 7912AD chassis and set the power supply on the book.

6. Reconnect the power supply cables to the power connector board. Connect the power supply ground wire to the post on top of the chassis near the XYZ outputs.

7. Connect a digital voltmeter such as the TEKTRONIX DM502 to pins 1 and 3 of P128 (Shown in Fig. 7-36 in the Diagrams section).

8. Set the digital voltmeter to AC volts on the 200 volt range.

9. Connect the AC line cord from the power supply to a variable transformer and adjust the input line voltage to 90 volts.

10. Turn on the PRINIPAL POWER SWITCH and power up the 7912AD.

11. Adjust R124 for 108 volts on the digital voltmeter. This adjustment ensures that the fan voltage will be high enough for good cooling even at lov line voltages.

12. Turn the 7912AD off and disconnect the digital voltmeter.

13. Turn the PRINCIPAL POWER SWITCH off and disconnect the line cord.

14. Allow the power supply capacitors several minutes to discharge before replacing the power supply covers.

15. Disconnect the power supply cables from the Power Connector board (A62) and disconnect the ground wire from the lug on top of the 7912AD chassis.

16. Replace the power supply covers and reinstall the power supply as discussed in **Installing the Power Supply**.

Changing the 10KV Assembly - A74

Removing the Assembly:

1. Disconnect the power cord.

WARNING

Be certain power to the instrument is removed before proceeding.

2. Place the instrument on its left side.

3. Remove the top, bottom and right side covers.

4. Remove the small CRT shield side cover, near the rear of the CRT shield. Use a non-magnetized screwdriver to loosen the screws, but don't remove them completely.

5. Remove the CRT rear cover by removing the three small Phillips-head screws. Do not remove the capnuts.

6. Remove the high voltage cover on the bottom of the instrument. Save the cable clamps and hardware.

7. Unplug the CRT rear socket and remove the plastic cover over the socket.

8. Unsolder the two brown wires from pins 1 and 14 (heater leads) from the socket.

9. Refer to Fig. 7-52 and Disconnect the green connector from P842 and P844 on the Horizontal and X-Axis Amp board (A4D). Notice that the arrow on the connector goes toward P842. Disconnect the red connector, P542, the yellow connector, P644, and the orange connector, P642, from the Horizontal and Z-Axis Amp board (A4D).

10. Disconnect the blank connector, P204, from the H.V. Oscillator board, (A72).

11. Unsolder the two bare leads from the high-voltage transformer at the 10KV assembly (A74).

12. Pull the 10KV assembly from its mounting bracket. Carefully free the CRT socket and cables from the chassis and remove the 10KV assembly.

Installing the 10KV Assembly:

13. Install the replacement 10KV assembly in the mounting bracket, routing the wires so that they are not crimped as the assembly is pressed into place. The terminal lugs on the assembly should be facing the high-voltage transformer.

14. Route the black/gray-or-white coaxial cable between the chassis flanges that support the 10KV assembly and the CRT. Connect the black connector to P204 on the HV Oscillator board (A72). Be sure to align the arrows on the plug and board (see Fig. 7-59).

15. Refer to Fig. 7-52 and route the gray shielded wire up to the Horizontal and Z-Axis Amplifier (A4C) and connect the red connector to P642. Be sure the arrows on the plug and board line up.

16. Route the ribbon cable up to the Horizontal and Z-Axis board.

a. Connect the orange connector to P642
b. Connect the yellow connector to P644
c. Connect the green connector to P842

Be sure the arrow on each connector lines up with the corresponding arrow on the board.

17. Solder the brown (cathode heater) wires to pins 1 and 14 of the CRT socket in either order.

18. Replace the plastic cover on the CRT socket and connect the socket to the CRT plug.

19. Solder the bare wires from the high-voltage transformer to the terminals on the 10KV assembly.

20. Replace the high voltage cover and cable clamps.

21. Replace the CRT rear cover.

22. Replace the small CRT shield using a non-magnetized screwdriver.

Changing the Scan Converter Tube (CRT)

Removing the Scan Converter Tube.

1. Disconnect the AC power cord at the rear of the instrument.

WARNING

Be certain power to the instrument is removed before proceeding.

2. Set the instrument on its left side. Remove the top, right-side, and bottom covers.

3. Loosen the two screws on the top of the CRT shield at the rear of the scan converter tube and remove the small cover on the shield.

4. Remove the rear-panel CRT cover marked with the high-voltage symbol. Do not remove the cap nuts - remove 3 screws only.

5. Unplug the socket from the rear of the CRT.

6. Disconnect wires and cables leading to the Vertical Amplifier board (A34); the board is shown in Fig. 7-49 in the Diagrams section. Remove the screws that hold the board and remove the screw that holds the terminal strip in front of the board. Remove the board carefully, detaching the two wires beneath the board from the CRT connecting pins. Handle the board carefully so the two wires soldered to the bottom of the board are not damaged.

7. Remove the black cover on the Video Preamplifier (A32). Unscrew the posts and remove the board carefully, detaching the wire beneath the board from the CRT connecting pin. Handle the board carefully so the wire soldered to the bottom of the board is not damaged.

8. Refer to Fig. 7-45 and tuck the blank-on-white coaxial cable from J1955 on the Video Preamp board (A32) through the chassis hole and inside the CRT shield.

9. Pull the orange-on-white wire from the CRT connecting pin.

10. Unsolder the black wire from the terminal lug under the Video Preamp board (A32). Push the wire through the chassis hole and tuck the wire into the CRT shield.

11. Unplug the red-on-white and brown-on-white wires coming from the small terminal strips at the rear of the Video Preamp (A32).

CAUTION

Use a nonmagnetic screwdriver to remove shield mounting screws and shield fasteners to avoid magnetizing the shield. All shield mounting screws and shield fastener screws are non-magnetic and should be saved to reinstall the CRT.

12. Remove the two top shield fasteners one at a time by loosening the screw while holding the fastener and then pulling it out. Use caution to avoid dropping the fastener inside the chassis.

13. Remove the four CRT shield mounting screws.

14. Unscrew the eight mounting screws on the front panel and remove the panel. The panel can be moved out of the way without disconnecting any wires.

15. Disconnect the socket on the front of the CRT.

16. Refer to Fig. 7-5' in the diagrams section. Disconnect the blue connector (P805) and the green connector (P840) on the Scan Amplifier and Read Gun Supply board (A38). These wires lead from the front of the CRT. Tuck the wires inside the CRT shield.

17. Disconnect the black connector attached to three wires leading from the front of the CRT; tuck it inside the CRT shield.

18. Disconnect from the right side of the CRT the two wires that lead from the Horizontal and Z-Axis Amplifier board (A40) See Fig. 7-52.

19. Disconnect the three wires that connect to the bottom of the CRT close to the vertical amplifier termination.

20. Disconnect from the CRT the two enameled wires that lead from the vertical amplifier termination on the bottom of the CRT.

21. Remove the bottom shield fastener by loosening the screw while holding the fastener and then pulling it out. Use caution to avoid dropping the fastener inside the chassis.

22. Remove the screws from the cover over the high voltage section-the H-V Oscillator board (A72) and the 10 KV assembly (A74).

23. Slide the cover down and forward and remove it. Be careful not to damage the wiring harness.

24. Unsolder the leads at the CRT assembly (A74) coming from the high-voltage transformer.

25. Remove the two nuts on the posts holding the high-voltage transformer and move it enough to expose the shield mounting screw beneath the transformer.

26. Remove the four mounting screws on the bottom of the CRT shield.

27. Check that all wires attached to the CRT remain tucked inside the shield.

WARNING

Handle the scan converter tube carefully. Wear protective clothing and safety glasses when removing or holding the tube. Do not attempt to remove the metal CRT shield around the scan converter tube.

28. Grasp the front of the scan converter tube shield; rotate slightly back and forth, pulling moderately. Work the tube out of the chassis from the front using care so as not to snag any wires or hardware as the tube is removed.

Installing the Scan Converter Tube.

29. Check that the AC power is disconnected from the rear of the instrument. The instrument should be on its left side with the top, right, and bottom covers removed.

30. Note the target voltage on the label at the rear of the tube to use during recalibration that is needed after a new scan converter tube is installed.

31. Tuck all wires inside the scan converter tube shield.

32. Insert the scan converter tube from the front of the instrument. Work the tube into position, rotating it slightly as necessary so the screws clear as it is inserted. The tube must end in position with four holes exposed on the top and two holes exposed in the bottom of the shield.

33. Fish out the wires tucked inside the tube shield so they extend from the front of the tube and through the holes in the tube shield. Three groups of wires are tucked into the front of the shield: a group with a blue connector, a group with a green connector, and a group with a black connector. A black-on-white coaxial cable is tucked inside the front hole on the top of the CRT shield. A black wire is tucked inside the next hole back on the top of the CRT shield.

CAUTION

Use a nonmagnetic screwdriver to install shield mounting screws and shield fasteners to avoid magnetizing the shield. Use the nonmagnetic screws removed from the 7912AD when the scan converter tube was removed.

34. Install the four screws that hold the bottom of the CRT shield. Do not tighten the screws. If necessary, unsolder the wires at the ICRT assembly (A74) coming from the high-voltage transformer and remove the nuts on the high-voltage transformer mounting posts to move the high-voltage transformer out of the way.

35. Install the four screws that hold the top of the CRT. Do not tighten the screws.

36. Install the bottom shield fastener and the two top shield fasteners, holding each fastener in place and tightening the screw in the fastener enough to hold it in place. Use caution to avoid dropping the fastener inside the chassis.

37. Tighten the screws installed in steps 34 through 36. If the high-voltage transformer was moved in step 34, replace it and resolder the leads.

38. Replace the cover over the high-voltage section including the cable clamps to hold the wire bundle.

39. Connect the two enameled wires to the CRT that lead from the vertical amplifier termination strip.

40. Connect the three wires to the pins at the bottom of the CRT close to the vertical amplifier termination strip. The orange-on-white wire goes to the top pin (when the instrument is on its left side). The yellow-on-white wire goes to the center pin and the green-on-white goes to the bottom pin.

41. Connect the two horizontal output amplifier wires to the CRT pins close to where the wires attach to the Horizontal and Z-Axis Amplifier (A40) on the right side of the instrument.

42. Connect the blue connector leading from the front of the CRT to P006 on the Scan Amplifier and Head Gun Supply board (A38) See Fig. 7-51.

43. Connect the green connector leading from the front of the CRT to P040 on the Scan Amplifier and Head Gun Supply board (A38).

44. Connect the black connector leading from the front of the CRT to the black connector leading from P667 on the Main Interconnect board (A66). Key the connectors so the red wire connects to the brown-on-white.

45. Connect the socket to the front of the CRT.

46. Install the front panel and replace the eight screws that hold it in place.

47. Solder the black wire leading from the CRT to the rear (ground) lug of the terminal strip under the Video Preamp board (A32). Make sure the other lug is not touching the tube shield.

48. Connect the orange-on-white wire to the CRT connecting pin near it.

49. Connect the red-on-white wire coming from the terminal strip behind the Video Preamp board (A32) to the top CRT connecting pin nearby. Connect the brown-on-white wire to the lower CRT pin.

50. Reinstall the Video Preamplifier board (A32) by attaching the wire beneath it to the CRT connecting pin. Make sure the wiring under the board is not pinched or touching other parts. Then replace the four posts that hold the board in place.

51. Reconnect the wires and cables leading to the Video preamplifier board (A32) See Fig. 7-48. These include black-on-white coaxial cable leading from the top of the CRT; it attaches to J1955 at the top-right corner of the board (when the instrument is on its left side). A single red-on-white (white-red) wire leading from the CRT front socket attaches to J1945, the single pin at the top-center of the board. The red connector P1997 attached to the five pins on the left edge of the board. Be sure to align the arrows on the board and plug. The brown-on-white coaxial cable connects to J1994 at the lower-left corner of the board.

52. Reinstall the Vertical Amplifier board (A34) by attaching the two wires connected to the solder side of the board to the CRT connecting pins beneath the board. Place the board over the two spacer bars along each side of the board. Then replace the screws and nuts that hold the bars and board in place. Reinstall the screw that holds the terminal strip and metal bar in front of the vertical amplifier board.

53. Refer to Fig. 7-49 and reconnect the wires leading to the Vertical Amplifier board (A34):

a. Connect the red-on-white cable to the center plug of the three plugs at the upper-left corner (with the instrument sitting on its left side) of the board (P690).

b. Connect the red two-pin harmonica connector (P780) to the two pins at top-center of the board. Be sure to align the arrows on the plug and the board.

c. Connect the five-pin black harmonica connector (P794) to the pins at the lower-left corner of the board. Be sure to align the arrows on the board and connector.

d. Connect the blue coaxial cable to J660 near the center of the board.

e. Connect the black-on-blue coaxial cable to J661 at the bottom-center of the board.

54. Replace the black cover on the Video Preamplifier board (A32), being careful not to pinch any of the wires that lead under the cover.

55. Plug the CRT rear socket onto the rear of the CRT.

56. Replace the rear panel CRT cover marked with the high-voltage symbol.

57. Replace the small cover on the rear of the CRT shield and tighten the two screws that hold it in place.

58. Disconnect the three pin harmonica connector, P212, from the High-Voltage Oscillator board (A72 - Fig. 7-59). This disables the high-voltage section to protect the CRT from damage.

59. Set R602, Grid Bias, on the Horizontal and Z-Axis Amp board (A4D) to minimum. On most instruments the adjustment should be set fully clockwise. If you are in doubt, measure the resistance between the +50V supply and the wiper of R602 as follows:

a. Connect the Lo lead of the DM 501 digital multimeter to the lead of the 0.1 microfarad capacitor, C602, that is closest to R602. (Refer to Fig. 7-59 for the locations of these components).

b. Connect the Hi lead of the multimeter to the lead of the 22-ohm resistor, R502, that is closest to R602.

c. Set the multimeter to the 200-Ohms range.

d. Adjust R602, Grid Bias for zero ohms on the multimeter.

e. Remove the multimeter leads.

60. Perform the calibration procedure in Section 5 beginning at the **Read Gun** heading.

REPACKAGING FOR SHIPMENT

If the Tektronix instrument is to be shipped to a Tektronix Service Center for service or repair, attach a tag showing: owner (with address) and the name of an individual at your firm that can be contacted. Include complete instrument serial number and a description of the service required.

Save and re-use the package in which your instrument was shipped. If the original packaging is unfit for use or not available, repackage the instrument as follows:

Surround the instrument with polyethylene sheeting to protect the finish of the instrument. Obtain a carton of corrugated cardboard of the correct carton strength and having inside dimensions of no less than six inches more than the instrument dimensions. Cushion the instrument by tightly packing three inches of dunnage or urethane foam between carton and instrument, on all sides. Seal carton with shipping tape or industrial stapler.

The carton test strength for your instrument is 375 pounds.

SECTION 5

CALIBRATION

INTRODUCTION

The 7912AD calibration procedure provides instructions to check the instrument and adjust it, if necessary, for specified performance. Perform this procedure after every 1,000 hours of operation or every six months if the instrument is used infrequently to assure full system performance with any of the recommended 7912AD plug-ins. Steps that check Performance Requirements listed in the specifications (Section 1) are marked by a ✓.

A partial calibration may be required any time components are replaced. Perform all of the steps under a subheading such as **Power Supply** or **Read Gun** if any of the steps is to be performed. To avoid unnecessary recalibration of other parts of the instrument, readjust only if the tolerance given in the check part of the step is not met. After readjustment, check the calibration of any steps listed in the interaction part of the step (if any).

Test limits apply to the standard instrument, except as noted for Option 13.

Required Test Equipment

The test equipment required to perform the calibration procedure is listed in Table 5-1. All equipment used must be correctly calibrated and operating within its specifications.

Instructions in the calibration procedure assume the use of the recommended equipment in Table 5-1. Other equipment may be used for some steps if its performance is equivalent. For instance, the TEKTRONIX 465 Oscilloscope may serve in place of the recommended 7704A Oscilloscope for all steps requiring a test oscilloscope except where special plug-ins are required. Usually, the instructions are general enough to apply to the substituted equipment. However, where a particular piece of equipment is required for the procedure to work, the instructions are written specifically for that equipment.

Calibration fixtures, adapters, cables, and connectors are available from Tektronix, Inc. Order by part number through your local Tektronix Field Office or representative.

Programmable Functions

Although this procedure checks the instrument for specified performance, it does not check programmable functions. If your 7912AD was purchased as part of a system (WP, AD, etc.) Checkout Software (CP5600J or CP5600M) is supplied as a standard accessory. See the checkout software manual for instructions.

When purchasing the 7912AD alone, the checkout software is available as an optional accessory. Contact your Tektronix Sales Representative for information.

TABLE 5-1

REQUIRED TEST EQUIPMENT

Description	Minimum Specifications	Recommended Equipment
Amplifier plug-in	500 megahertz, 10 millivolt minimum sensitivity	TEKTRONIX 7A19 Amplifier; other 7000-series amplifiers may be used for some steps
Time base plug-in	0.5 nanosecond fastest sweep rate, triggering to 500 megahertz	TEKTRONIX 7B92A Dual Time base; 7B90P Programmable Time Base may be used for some steps
Signal standardizer plug-in	Pulse, continuous wave, and gain functions	TEKTRONIX part number 067-0587-02
Plug-in extender	Provide access to trigger signals	TEKTRONIX part number 067-0589-01 -- used only for trigger buffer steps
Test oscilloscope	75 megahertz bandwidth dual-trace with minimum deflection factor of 5 mV/div, delayed sweep, 1 megohm input impedance, and 4 plug-in compartments	a. TEKTRONIX 7704A Oscilloscope with 7A26 Dual Trace Amplifier, 7A13 Differential Comparator, 7B85 Delaying Time Base, 7B80 Delayed Time Base, and three P106 or P6053B 10X probes b. TEKTRONIX 485 Oscilloscope c. Refer to TEKTRONIX Products Catalog for compatible equipment

TABLE 5-1 (cont.)

Description	Minimum Specifications	Recommended Equipment
7912AD Calibration Kit	Calibration Aid signal source and connectors	TEKTRONIX part number 067-0854-00
TV monitor	Video input	TEKTRONIX 634 or 632 Picture Monitor
Display monitor	XYZ inputs, high-resolution storage	TEKTRONIX 607 Storage Monitor
Digital multimeter	400 volt range, 0.1% basic accuracy	TEKTRONIX DM501 Digital Multimeter (DM502 can be used with less resolution); requires TM 500 power module
Time mark generator	0.1% accuracy with markers from 10 milliseconds to 1 nanosecond	TEKTRONIX TG501 Time Mark Generator; requires TM500 power module
Sine wave generator	250-500 megahertz with 6 megahertz reference frequency	TEKTRONIX SG504 Leveled Sine Wave Generator; requires TM500 power module
Function generator	Square wave and sine wave outputs, 1 megahertz frequency range, up to 5 volt output	TEKTRONIX 501 Function Generator; requires TM500 power module
Coaxial cable	50-ohm, 42 inches, BNC connectors	TEKTRONIX part number 012-0057-01; five required
High voltage digital multimeter	10 kV voltage range, 1% accuracy	Valhalla 4500 H.V. Digital Multimeter with HVL 15 kV H.V. test lead set

TABLE 5-1 (cont.)

Description	Minimum Specifications	Recommended Equipment
Coaxial cable	50-ohm, 18 inches, BNC and BSM connectors -- FG501 external trig out cable	TEKTRONIX part number 012-0127-00; required
Coaxial cable	75-ohm, 42 inches, BNC connectors	TEKTRONIX part number 012-0074-00; two required
Adapter	BNC to dual-banana plugs	TEKTRONIX part number 103-0090-00
Connector	T, BNC connectors	TEKTRONIX part number 103-0030-00; two required
Attenuator	5X, 50-ohm, BNC connectors	TEKTRONIX part number 011-0060-02
Attenuator	10X, 50-ohm, BNC connectors	TEKTRONIX part number 011-0059-02
Terminator	50-ohm, feedthrough, BNC connectors	TEKTRONIX part number 011-0049-01; two required
Terminator	75-ohm, feedthrough, BNC connectors	TEKTRONIX part number 011-0055-00; two required
Alignment tool	Tool with extension handle	TEKTRONIX part numbers 003-0497-00 (tool) and 003-0307-00 (handle)
Alignment tool	JFD Adjustment Tool 5284	TEKTRONIX part number 003-0489-00

Preliminary Instructions

1. Before starting, thoroughly clean and inspect the 7912AD.

2. Allow a 20-minute warm-up and operate the 7912AD at an ambient temperature of +20 to +30 degrees C while calibrating.

3. Remove 7912AD covers only as necessary and replace them as soon as possible. With the covers off, air is not routed through the instrument properly, causing some parts to overheat.

4. AC line voltage connected to the 7912AD power cord should be at the nominal voltage selected on the rear panel. If not, use a variable transformer to obtain the voltage selected -- take care that the safety-earth ground path is preserved so that the instrument chassis is still connected directly to ground through the power cord.

5. Turn off power when removing or installing plug-ins, then allow a short time for the 7912AD to stabilize when turned back on.

6. 7912AD front and rear-panel controls and connectors are spelled and capitalized in this procedure as they appear on the instrument.

7. Leave the TV monitor and XYZ monitor connected throughout the procedure. Do not disconnect except when directed to connect the 7912AD output to other instruments.

8. Leave MAIN INTENSITY and GRATICULE INTENSITY set to minimum unless instructed to increase them or when it is necessary to write on the target to view a waveform or the graticule.

9. Because the 7912AD powers on in TV and LOCAL modes, no instructions are given to set it to these modes at power-up. Instructions are given in this procedure only where needed to change the 7912AD operating modes.

10. Adjust the test oscilloscope front-panel gain and sweep calibration and the compensation of all probes before beginning and at any point in the procedure where the plug-ins or probes are changed.

CALIBRATION PROCEDURE

Power Supply

Required Equipment

Amplifier plug-in
Time base plug-in
Digital multimeter

Setup

a. With power off, install the plug-ins:

VERTICAL	Amplifier
HORIZONTAL	Time base

b. With MAIN INTENSITY and GRATICULE INTENSITY set to minimum, turn on 7912AD power.

c. Power supply test points are shown in the Diagrams section:

Power Connector board (A62)	Fig. 7-57
Inverter board (A82)	Fig. 7-61
Regulator board (A88)	Fig. 7-62

1. +5.1 V check/adjust

a. Set the digital multimeter for:

Range	20 volts DC

b. Connect the digital multimeter leads on the Power Connector board (A62):

Lo	TP504, Com S TP
Hi	TP502, +5.1 S TP

c. CHECK - Multimeter reads +5.100 volts ±0.010 volt.

d. ADJUST - R910, +5.1 V, on the Inverter board (A62). It can be reached through a hole in the top cover of the power supply next to the Vertical Amplifier board (A34).

e. INTERACTION - Adjusting +5.1 V changes the raw supply for the other power supplies. Therefore, perform steps 2 and 3 if R910, +5.1 V, on the Inverter board (A62) is changed.

2. -50 V check/adjust

a. Set the digital multimeter for:

Range: 200 volts, DC

b. Connect the digital multimeter leads on the Power Connector board (A62):

Lo TP904, Gnd 4 TP
Hi TP905, -50 S TP

c. CHECK - That the digital multimeter reads -50.00 volts, ±0.10 volt.

d. ADJUST - R508, -50 V, on the Regulator board (A88). It can be reached through a hole in the top cover of the power supply located near where the multimeter leads are connected.

e. INTERACTION - If R508, -50 V, on the Regulator board (A88) is changed, other supplies referenced to it (-15 V, +5 V, +15 V, etc.) must be checked. Any change in the -50 volt supply may also affect the operation of many other circuits in the 7912AD and plug-ins.

3. Power supply voltages check

a. Connect the digital multimeter on the Power Connector board (A62) as directed in the CHECK step, setting the meter to the given range.

b. CHECK - For the following voltage readings within the indicated tolerance:

METER RANGE	METER LEADS LO	HI	READING	TOLERANCE
20 volts DC	TP904 Gnd & TP	TP908 -15 S TP	-15.000 volts	±0.090 volts
20 volts DC	TP904 Gnd & TP	TP902 +5 S TP	+5.000 volts	±0.050 volts
20 volts DC	TP904 Gnd & TP	TP702 +15 S TP	+15.000 volts	±0.090 volts
200 volts DC	TP904 Gnd & TP	TP704 +50 S TP	+50.00 volts	±0.25 volts
200 volts DC	TP904 Gnd & TP	TP914 130 V	+130.00 volts	±1.30 volts
1000 volts DC	TP904 Gnd & TP	TP912 365 V	+365.0 volts	±3.7 volts
20 volts DC	TP504 Com S TP	TP614 -5.2 S TP	-5.200 volts	±0.052 volts
20 volts DC	TP504 Com S TP	TP506 -2 S TP	-2.000 volts	±0.020 volts

c. Disconnect meter leads.

Sync Output

Required Equipment

Test oscilloscope
75-ohm coaxial cable
75-ohm terminator

Setup

a. Set the test oscilloscope for:

Volts/division	1 volt
A time/division	2 milliseconds
Trigger source	External
Trigger slope	Negative
B delay mode	B starts after delay
Delay time	Approximately 5 milliseconds
B time/division	10 microseconds

b. Connect the test oscilloscope for:

Amplifier in	7912AD SYNC OUT through a 75-ohm coaxial cable and 75-ohm terminator at amplifier input
A ext trig in	TP212 on the Video Processor and Scan Control board (A28) through 10X probe. The test point is shown on Fig. 7-16 in the Diagrams section.

4. SYNC OUT amplitude check

a. Set the test oscilloscope for:

Horizontal mode	A

b. CHECK - For 4V signal.

5. SYNC OUT timing check

a. Change the test oscilloscope for:

Horizontal mode	B

b. CHECK - The period of the SYNC OUT waveform is approximately 64 microseconds.

c. Change the test oscilloscope for:

B time/division	5 microseconds

d. CHECK - The pulse width is approximately 4 microseconds (Adjust Delay as required).

e. Change the test oscilloscope for:

B time/division	0.2 milliseconds
Delay time	Approximately 7 milliseconds

f. CHECK - For 16 serration pulses with a period equal to one-half that of the surrounding sync pulses. The serration pulse train is six narrow, six wide, and then six narrow pulses, all negative polarity.

g. Disconnect the test oscilloscope.

Ramp Bias

Required Equipment

Test oscilloscope

Setup

a. Set the test oscilloscope for:

Volts/division	5 millivolts (50 millivolts at probe tip)
Vertical position	Graticule center
Input coupling	DC
Time/division	50 microseconds
Trigger mode	Automatic

b. Ramp bias test points and adjustments are shown in the Diagrams section:

X & Y Ramp Generator board (A26)	Fig. 7-46

6. Y ramp bias check/adjust

a. Establish a ground reference level on the test oscilloscope display.

b. Connect the test oscilloscope to the X Y & Ramp Generator board (A26):

Amplifier input	TP600 through 10X probe

c. CHECK - Test oscilloscope deflection is no more than ±10 millivolts (0.2 division) from the ground reference.

d. ADJUST - R604, Bias Level, on the X & Y Ramp Generator board (A26) to set the test oscilloscope trace to the ground reference level.

7. X ramp bias check/adjust

a. Change the test oscilloscope connection on the X & Y Ramp Generator board (A26):

Amplifier input TP602 through 10X probe

b. CHECK - Test oscilloscope deflection is no more than ±10 millivolts (0.2 division) from the ground reference.

c. ADJUST - R634, Bias Level, on the X & Y Ramp Generator board (A26) to set the test oscilloscope trace to the ground reference level.

d. Disconnect the test oscilloscope.

Y Ramp

Required Equipment

Test oscilloscope including 7A13 Differential Comparator plug-in

Setup

a. The following plug-ins are required in the test oscilloscope:

Left vertical	Amplifier
Right vertical	7A13 Differential Comparator
A horizontal	Delaying time base
B horizontal	Delayed time base

b. Set the test oscilloscope for:

Left volts/division	0.1 volt (1 volt at probe tip)
7A13 volts/division	50 millivolts (500 millivolts at probe tips)
7A13 + input	DC
7A13 - input	Vc
7A13 comparison volts	+205 volts -- pull out variable knob (without 10X probe with readout encoder, comparison volts reads low by a factor of 10)
Vertical mode	Chop
A time/division	2 milliseconds
A trigger source	Internal, left vertical
A trigger slope	Positive
B delay mode	B starts after delay
Delay time	0.5 milliseconds
B time/division	0.2 milliseconds
B trigger mode	Automatic
Horizontal mode	B

c. While pressing the 7A13 Vc reference button, set the test oscilloscope right vertical trace to graticule center with the 7A13 position control.

d. Y ramp test points and adjustments are shown in the Diagrams section:

X & Y Ramp Generator board (A26)	Fig. 7-46
Video Processor & Scan Control board (A25)	Fig. 7-47
Scan Amp & Read Gun Supply board (A38)	Fig. 7-51

8. Y ramp gain check/adjust

a. Connect the test oscilloscope left vertical plug-in to the Video Processor & Scan Control board (A25) for:

Amplifier input	TP212 (vertical blanking), VB, through 10X probe

b. Connect the 7A13 to the Scan Amp & Read Gun Supply board (A38) for:

+ input	P108 (or end of R108, the 49.9 kilohm resistor just below) through 10X probe
- input	P122 (or end of R120, the 49.9 kilohm resistor just above) through 10X probe

c. Set the B time base position control to center the negative transition of the vertical blanking pulse (connected to left vertical plug-in).

d. The ramp may appear as a series of dashed lines. If not visible, bring it on screen by varying the comparison voltage.

e. Detune R1442, X Scan Rotation, on the X & Y Ramp Generator board (A26) to obtain best straight-line ramp. This adjustment is at the bottom-front of the board and requires the alignment tool and extension handle called out in the calibration equipment list at the beginning of this section.

f. Set 7A13 comparison voltage so the ramp crosses graticule center on the test oscilloscope; the ramp vertical center should coincide with the blanking pulse transition as shown in Fig. 5-1.

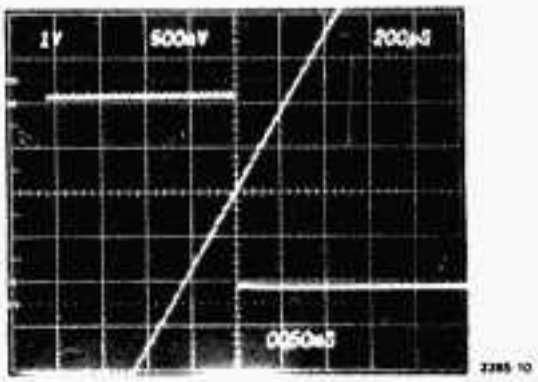


Fig. 5-1. Y ramp start.

g. Record the test oscilloscope comparison voltage and delay time.

h. Increase the delay time to center the rising edge of the next vertical blanking pulse -- approximately 15.9 milliseconds (18.9 milliseconds for option 13).

i. Again note the delay time.

j. Increase the 7A13 comparison voltage so the ramp is again centered on the graticule (increase approximately 69.5 volts).

k. CHECK - The 7A13 comparison voltage should equal the voltage recorded above plus 69.5 volts ±3.5 volts as shown in Fig. 5-2.

l. ADJUST - R1000, Y Gain, on the X & Y Ramp Generator board (A26) to center the ramp on the graticule with the 7A13 comparison voltage set to the reading recorded above plus 69.5 volts.

m. INTERACTION - If R1000, Y Gain, on the X & Y Ramp Generator board (A26) is changed, reset the delay time to 0.5 milliseconds and repeat this step. If R1442, X Scan Rotation, on the X & Y Ramp Generator board was changed, the X scan rotation adjust step must be performed.

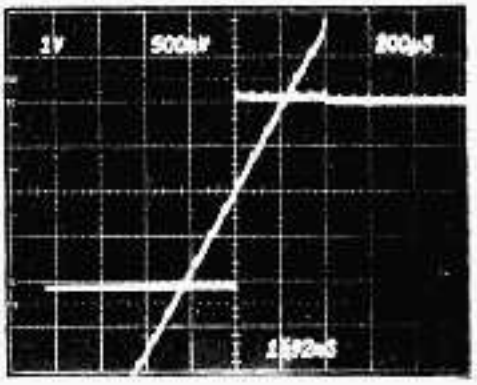


Fig. 5-2. Y ramp end.

9. Y ramp centering check/adjust

a. Compute the delay time to the center of the ramp by finding the difference between the two delay times noted in the last step (Y ramp gain), dividing by two, and adding the result to the first delay time noted.

b. Change the test oscilloscope for:

7A13 - Input	DC
Delay time	Center of ramp computed above

c. CHECK - Without moving the B time base position control, that the ramp crosses graticule center ±0.5 division horizontally.

d. ADJUST - R900, Y Centering, on the X & Y Ramp Generator board (A25) so the ramp crosses graticule center.

10. Y ramp common mode check/adjust

a. Change the test oscilloscope for:

7A13 - input	Vc
7A13 comparison volts	+244 volts

b. CHECK - that the ramp crosses graticule center within 0.2 division horizontally.

c. ADJUST - R508, Y Com Mode, on the Scan Amp & Read Gun Supply board (A38) so the ramp crosses graticule center.

d. Change the test oscilloscope for:

7A13 + input	Vc
7A13 - input	DC

e. CHECK - that the ramp crosses graticule center within 0.2 division horizontally.

f. ADJUST - R508, Y Com Mode, on the Scan Amp & Read Gun Supply board (A38) so the ramp crosses graticule center.

g. INTERACTION - Repeat this step until both checks are successful.

h. Disconnect test oscilloscope probes.

X Ramp

Required Equipment

Test oscilloscope including 7A13 Differential Comparator plug-in

Setup

a. The following plug-ins are required in the test oscilloscope:

Left vertical	Amplifier
Right vertical	7A13 Differential Comparator
A horizontal	Delaying time base
B horizontal	Delayed time base

b. Set the test oscilloscope for:

Left volts/division	0.1 volt (1 volt at probe tip)
7A13 volts/division	50 millivolts (500 millivolts at probe tips)
7A13 + input	DC
7A13 - input	Vc
7A13 comparison volts	+195 volts
Vertical mode	Chop
A time/division	20 microseconds
A trigger source	Internal, left vertical
A trigger slope	Positive
B delay mode	B starts after delay
Delay time	5 microseconds
B time/division	2 microseconds
B trigger mode	Automatic
Horizontal mode	B

c. While pressing the 7A13 Vc reference button, set the test oscilloscope right vertical trace to graticule center with the 7A13 position control.

d. X ramp test points and adjustments are shown in the Diagrams section:

X & Y Ramp Generator board (A26)	Fig. 7-46
Video Processor & Scan Control board (A28)	Fig. 7-47
Scan Amp & Read Supply board (A38)	Fig. 7-51

11. X ramp gain check/adjust

a. Connect the test oscilloscope left vertical plug-in to the Video Processor & Scan Control board (A28) for:

Amplifier input	TP210, HB (horizontal blanking), through 10X probe

b. Connect the 7A13 to the Scan Amp & Read Gun Supply board (A38) for:

+ input	P126 (or end of R128, the 49.9 kilohm resistor just below) through 10X probe
- input	P142 (or end of R140, the 49.9 kilohm resistor just above) through 10X probe

c. Set the B time base position control to center the negative transition of the horizontal blanking pulse (connected to the left vertical plug-in).

d. The ramp may appear as a series of dashed lines. If not visible, bring it on screen by varying the comparison voltage.

e. Detune R1414, Y Scan Rotation, on the X & Y Ramp Generator board (A26) to obtain the best straight-line ramp.

f. Set the 7A13 comparison voltage so the ramp crosses graticule center on the test oscilloscope; the ramp vertical center should coincide with the blanking pulse transition as shown in Fig. 5-3.

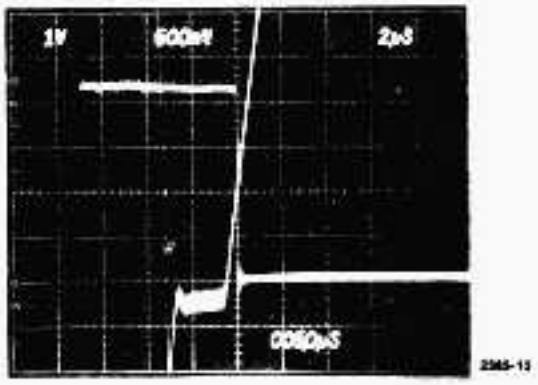


Fig. 5-3. X ramp start.

g. Record the test oscilloscope comparison voltage and delay time.

h. Increase the delay time to center the rising edge of the next horizontal blanking pulse -- (approximately 57 microseconds).

i. Again note the delay time.

j. Increase the 7A13 comparison voltage so the ramp again crosses graticule center (increase approximately 93 volts).

k. CHECK - The 7A13 comparison voltage should equal the voltage recorded above, plus 93 volts ±4.65 volts, as shown in Fig. 5-4.

l. ADJUST - R1032, X Gain, on the X & Y Ramp Generator board (A26) to center the ramp on the graticule with the 7A13 comparison voltage set to the reading recorded above plus 93 volts.

m. INTERACTION - If R1032, X Gain, on the X & Y Ramp Generator board (A26) is changed, reset the delay time to 5 microseconds and repeat this step. If R1414, Y Scan Rotation, on the X & Y Ramp Generator board (A26) was changed, the Y scan rotation check/adjust step must be performed.

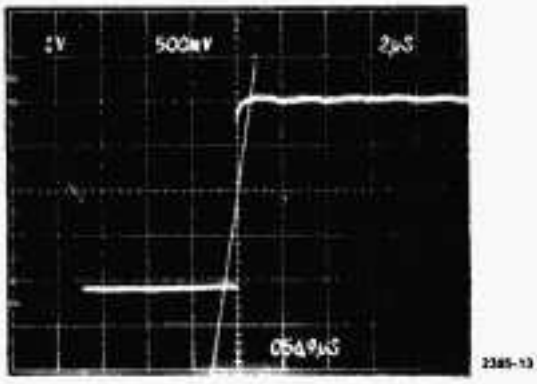


Fig. 5-4. X ramp end.

12. X ramp centering check/adjust

a. Compute the delay time to the center of the X ramp by finding the difference between the two delay times notes in the last step (X ramp gain), dividing by two, and adding the result to the first delay time noted.

b. Change the test oscilloscope for:

7A13 - input	DC
Delay time	Center of ramp computed above

c. CHECK - Without moving the B time base position control, that the ramp crosses graticule center ±0.5 division horizontally.

d. ADJUST - R930, X Centering, on the X & Y Ramp Generator board (A26) so the ramp crosses the graticule center.

13. X ramp common mode check/adjust

a. Change the test oscilloscope for:

7A13 - input	Vc
7A13 comparison volts	+244 volts

b. CHECK - That the ramp crosses graticule center within 0.2 division horizontally.

c. ADJUST - R528, X Com Mode, on the Scan Amp & Read Gun Supply board (A38) so the ramp crosses graticule center.

d. Change the test oscilloscope for:

7A13 + input	Vc
7A13 - input	DC

e. CHECK - That the ramp crosses graticule center within 0.2 division horizontally.

f. ADJUST - R528, X Com Mode, on the Scan Amp & Read Gun Supply board (A38) so the ramp crosses graticule center.

g. INTERACTION - Repeat this step until both checks are successful.

h. Disconnect test oscilloscope probes.

14. Y ramp compensation adjust

a. Change the 7912AD for:

MODE	DIGITAL

b. Change the test oscilloscope for:

Volts/division	20 millivolts (200 millivolts at probe tip)
Vertical mode	Single trace
Time/division	2 microseconds
Trigger source	External
Trigger slope	Positive
Trigger level	Midrange
Horizontal mode	Undelayed (independent)

c. Connect the test oscilloscope for:

Amplifier input	TP600 on the Video Processor & Scan Control board (A28) through 10X probe
External triger in	TP700 on the X & Y Ramp Generator board (A26) through 10X probe

d. Change the test oscilloscope for:

Time/division	0.5 microsecond
Trigger slope	Negative

e. ADJUST - R018 and C012 on the Scan Amp & Read Gun Supply board (A38) for minimum positive and negative aberrations following the trailing (negative) edge of the vertical blanking pulse riding on the video displayed on the test oscilloscope.

f. Disconnect the test oscilloscope.

Read Gun

Required Equipment

TV monitor
Digital multimeter
Coaxial cables, 75-ohm (2)
75-ohm feedthrough terminators, BNC connectors (2)

Setup

a. With MAIN INTENSITY and GRATICULE INTENSITY set to minimum, turn on 7912AD power.

b. Connect the TV monitor to the 7912AD with 75-ohm coaxial cables, terminating inputs in 75 ohms:

Video input	LINEAR COMP VIDEO OUT
Sync input	SYNC OUT

c. Set the digital multimeter for:

Range	1 kilovolt DC

d. Read Gun test points and adjustments are shown in the Diagrams section:

Scan Amp & Read Gun Supply board (A38)	Fig. 7-51

15. Read gun anode voltage check/adjust

a. Connect the digital multimeter to the Scan Amp & Read Gun Supply board (A38) between:

Lo	TP538 (ground)
Hi	TP506

b. CHECK - The digital multimeter reads +259.0 volts ±1.0 volt.

c. ADJUST - R2602, Anode, on the Scan Amp & Read Gun Supply board (A38) for a digital multimeter reading of 259.0 volts.

d. Disconnect the digital multimeter.

16. Read gun X & Y alignment adjust

a. Turn off 7912AD power and disconnect P006 on the Scan Amp & Read Gun Supply board (A38). Rotate P006 180 degrees and plug it back onto the circuit board connector so the arrow does not align with the arrow on the circuit board.

b. With MAIN INTENSITY and GRATICULE INTENSITY set to minimum, turn on 7912AD power.

c. ADJUST - R632, Y Alignment, and R732, X Alignment, for a bright, sharp, well-defined ring around the edge of the TV monitor display. Concentrate on adjusting for a high-contrast ring and disregard the other features of the display.

d. Turn off 7912AD power and disconnect P006 on the Scan Amp & Read Gun Supply board (A38). Return P006 to its original position so its arrow and the arrow on the circuit board are aligned.

e. Turn 7912AD power back on.

17. Read gun cathode voltage check/adjust

a. Change the digital multimeter for:

Range	20 volts DC

b. Connect the digital multimeter leads to the Scan Amp & Read Gun Supply board (A38) between:

Lo	TP738, I_K'
Hi	TP838, I_K

c. CHECK - The ditital multimeter reads -3.750 volts ±0.180 volt, (-5.00 V when an additional sticker, located on the Read Gun of the crt, indicates I_K = 1.0 mA).

d. ADJUST - R728, Cathode Current (I_k), on the Scan Amp & Read Gun Supply board (A38) for a digital multimeter reading of -3.750 volts, (-500 V when an additional sticker, located on the Read Gun of the crt, indicates I_k = 1.0 mA).

e. Disconnect the digital multimeter.

Video Preamp

Required Equipment

Test oscilloscope
Digital multimeter
7912AD Calibration Kit

Setup

a. Turn off 7912AD power.

CAUTION

Do not use magnetized tools when working near the scan converter tube. Magnetizing the tube shield would degrade instrument performance.

b. Remove the black metal shield over the Video Preamplifier board (A32).

c. Remove the side cover from the rear of the scan converter tube shield and note the target level voltage written on the tube label. Replace the side cover on the shield.

d. With MAIN INTENSITY and GRATICULE INTENSITY set to minimum, turn on 7912AD power.

e. Video preamplifier test points and adjustments are shown in the Diagrams section:

Video Processor & Scan Control board (A28)	Fig. 7-47
Video Preamplifier board (A32)	Fig. 7-48

f. Connect the short jumper supplied in the 7912AD Calibration Kit between J1946 and J1956 on the Video Preamplifier board (A32).

g. Disconnect 9-1 (white-brown) coax from J1994 on the Video Preamplifier board (A32).

h. Set the Calibration Aid supplied in the 7912AD Calibration Kit for:

Video calibration switch	Preamp

i. Connect the Calibration Aid to the 7912AD:

Cal	On the Video Processor & Scan Control board (A28) through the BNC-to-clip-lead adapter with the red clip to TP302, 500 kHz, and the black clip to TP708, Gnd.
Probe power	PROBE POWER
Video calibration out	J1947 on the Video Preamplifier board (A32) through coax with BNC and Tektronix connectors supplied with 7912AD Calibration Kit.

j. Set the test oscilloscope for:

Volts/division	50 millivolts/division
Amplifier input coupling	DC
Time/division	1 microsecond
Triggering	Internal

K. Connect the test oscilloscope to the Video Preamplifier board between:

Amplifier input	J1994 through coax with BNC and Tektronix connectors terminating input with 50-ohm feedthrough terminator -- both supplied with 7912AD Calibration Kit

l. Set the digital multimeter for:

Range	20 volts DC

m. Connect the digital voltmeter to the Video Preamplifier board (A32) between:

Lo	Chassis ground
Hi	End of R1953 nearest R1952

18. Target level check/adjust

a. CHECK - Digital multimeter reading equal to the target level voltage noted during setup minus six volts (to correct for the cathode potential) ±1 percent.

b. ADJUST - R1952, Target Level, on the Video Preamplifier board (A32) for a digital multimeter reading equal to the target level voltage minus six volts.

c. Disconnect the digital multimeter.

19. Video preamplifier output level check/adjust

a. Wait for the output level to stabilize -- at least five minutes since turning on the instrument if previously warmed-up.

b. Establish a ground reference on the test oscilloscope display.

c. CHECK - Test oscilloscope display for a waveform centered about the ground reference level ±10 millivolts.

d. ADJUST - R1979, Video DC Level, on the Video Preamplifier board (A32) to center the waveform displayed on the test oscilloscope about the ground reference level.

20. Video preamplifier gain check

a. CHECK - Test oscilloscope waveform for a peak-to-peak amplitude of 200 millivolts ±10 millivolts (4 divisions ±0.2 division) measured at the center of the pulse top and bottom levels. This verifies a gain of 10 through the video preamplifier.

21. Video preamplifier high-frequency compensation check/adjust

a. Place the Video Preamplifier board (A32) cover upside down on the four metal posts on the board. Bare metal on the cover must contact at least one post. This simulates the normal video preamplifier stray capacitance.

b. CHECK - Positive transition for aberrations no greater than ±5 percent (0.2 division) with a rise time less than or equal to 100 ±10 nanoseconds -- change test oscilloscope time/division as necessary to observe.

c. ADJUST - R1972, Loop Gain, R1977, H.F., and C1976 for best compromise between positive transition aberrations and rise time. If necessary, turn off power and adjust R1957 for best results by unsoldering it, moving it toward or away from the board and resoldering it.

d. Turn off power.

e. Disconnect the test oscilloscope and Calibration Aid.

f. Disconnect the short jumper.

g. Reconnect 9-1 (white-brown) coax to J1994 on the Video Preamplifier board (A32).

h. Replace the black Video Preamplifier board (A32) cover, taking care not to pinch any wires under the cover.

i. Turn 7912AD power back on.

Video Processor

Required Equipment

Test oscilloscope
7912AD Calibration Kit
Coaxial cable, BNC connectors

Setup

NOTE

The accuracy of the clamp level check is highly dependent upon temperature. Allow the instrument to warm up fully and stabilize -- approximately 2 to 3 hours at the same ambient temperature as expected during normal operation. If necessary, the clamp level can be set as close as possible before a full warm-up and reset after enough time has passed while other parts of the calibration procedure are performed.

a. Set the 7912AD for:

MAIN INTENSITY	Minimum
GRATICULE INTENSITY	Minimum

b. Video processor test points and adjustments are shown in the Diagrams section:

Video processor & Scan Amp board (A28)	Fig. 7-47
Scan Amp & Read Gun Supply board (A38)	Fig. 7-51

c. Set the Calibration Aid supplied with the 7912AD Calibration Kit for:

Video calibration switch	Cathode blanking

d. Connect the Calibration Aid to the 7912AD for:

Sync	TP402, Screen Center, on the Video Processor & Scan Control board (A20)
Probe power	PROBE POWER
Video calibration out	J944 on the Scan Amp & Read Gun Supply board (A38) through coax with BNC and Tektronix connectors supplied with the 7912AD Calibration Kit

e. Set the test oscilloscope for:

Volts/division	5 millivolts (50 millivolts at probe tip)
Amplifier input coupling	DC
Time/division	10 microseconds
Trigger source	External
Trigger slope	Positive

f. Connect the test oscilloscope for:

Amplifier input	R940 at the end farther from J944 on the Scan Amp & Read Gun Supply board (A38) through 10X probe
Ext trigger in	Trig out on the Calibration Aid through coaxial cable

g. Note the test oscilloscope display baseline level, then move the test oscilloscope amplifier input probe to the end of R940 nearer J944 on the Scan Amp & Read Gun Supply board (A38). Set the Calibration Aid DC level control to restore the baseline to that just noted at the other end of R940.

h. Change the test oscilloscope time base position control to center the blanking pulse on the test oscilloscope graticule.

22. Clamp level check/adjust

a. Change the test oscilloscope input to connect:

Amplifier input	TP706 on the Video Processor & Scan Amp board (A28) through a 10X probe

b. Note the amplitude of the cathode blanking pulse centered on the graticule. The amplitude is typically 75 to 100 millivolts after full warm-up.

c. Change the test oscilloscope connection for:

Amplifier input	TP704 on the Video Processor & Scan Control board (A28) through 10X probe

d. CHECK - The DC level of the test oscilloscope display is equal to the cathode blanking pulse amplitude noted above.

e. ADJUST - R406, Clamp Level, on the Video Processor & Scan Control board (A28) for a test oscilloscope display DC level equal to the cathode blanking pulse amplitude noted above.

f. Disconnect the test oscilloscope and Calibration Aid.

g. INTERACTION - Changing R406, Clamp Level, on the Video Processor & Scan Control board (A28) affects both the DC Schmitt and the CRT grid bias adjustments.

23. X symmetry and gain (shading) check/adjust

a. Change the 7912AD for:

MODE	DIGITAL

b. Change the test oscilloscope for:

Volts/division	10 millivolts (100 millivolts at probe tip)
Bandwidth limit	On
Time/division	2 milliseconds
Trigger source	Internal

c. Connect the test oscilloscope to the Video Processor & Scan Control board (A28) between:

Amplifier input	TP600 through 10X probe

d. Set test oscilloscope triggering controls for a triggered sweep.

e. CHECK - the test oscilloscope display for a flat baseline as shown in Fig. 5-5.

Fig. 5-5. X symmetry and gain (shading) check display.

f. ADJUST - R839, X Symmetry, and R904, X Gain, on the Video Processor & Scan Control board (A28) for a flat baseline displayed on the test oscilloscope.

24. Y symmetry and gain (shading) check/adjust

a. Change the test oscilloscope for:

Time/division	5 microseconds

b. Reset test oscilloscope triggering controls as necessary for a triggered sweep.

c. CHECK - Test oscilloscope display for a flat baseline as shown in Fig. 5-6.

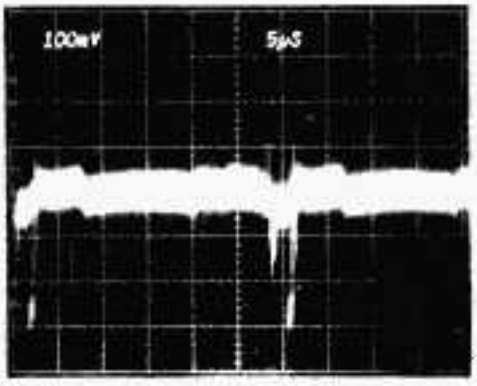


Fig. 5-6. Y symmetry and gain(shading) check display.

d. ADJUST - R806, Y Gain, and R832, Y Symmetry, on the Video Processor & Scan Control board (A26) for a flat baseline on the test oscilloscope display.

e. Disconnect the test oscilloscope.

Z-Axis

Required Equipment

Time base plug-in
Test oscilloscope

Setup

a. Z-axis test poins and adjustments are shown in the Diagrams section:

Horizontal & Z-Axis Amplifier board (A40)	Fig. 7-52
Main Interconnect board (A68)	Fig. 7-58

b. With 7912AD power off, remove the Graticule Generator board (A24).

c. With 7912AD power off, disconnect P624 on the Main Interconnect board (A68) to disable the high-voltage oscillator, protecting the scan converter target.

d. With 7912AD power off, install the 7912AD plug-in:

HORIZONTAL	Time base

e. With MAIN INTENSITY and GRATICULE INTENSITY set to minimum, turn on 7912AD power.

f. Set the time base plug-in for:

Time/division	0.1 microsecond
Triggering	Automatic

g. Set the test oscilloscope for:

Volts/division	50 millivolts (500 millivolts at probe tip)
Time/division	50 nanoseconds/division
Trigger source	Internal
Trigger slope	Positive

h. Connect the test oscilloscope to Horizontal & Z-Axis Amplifier board (A40) between:

Amplifier input	TP838 through 10X probe

25. Z-axis transient response check/adjust

a. Increase MAIN INTENSITY for an unblanking pulse amplitude of six divisions as displayed on the test oscilloscope.

b. CHECK - for a slightly peaked positive transition with aberrations no greater than ±2 percent (0.12 division) and a rise time of 16 nanoseconds or less as shown in Fig. 5-7. Change time/division as necessary to view rise time.

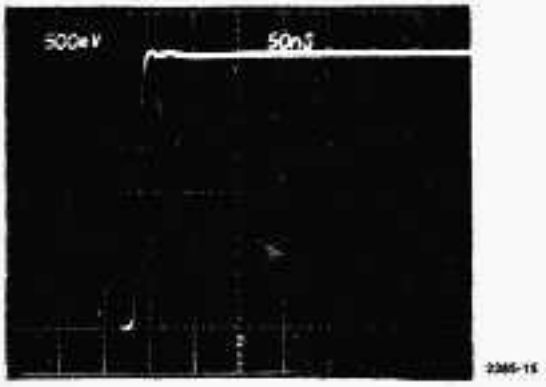


Fig. 5-7. Z-axis transient response display.

c. ADJUST - R812, Z Comp, C808, and C818 on the Horizontal & Z-Axis board (A40) for a slightly peaked positive transition with aberrations no greater than ±2 percent (0.12 division) and a rise time of 16 nanoseconds or less.

d. Disconnect the test oscilloscope.

e. Turn off 7912AD power and reconnect P624 on the Main Interconnect board (A68) to restore high-voltage drive.

f. With power off, reinstall the Graticule Generator board (A24).

10KV

Required Equipment

High voltage digital multimeter
High voltage test lead set
Test oscilloscope

Setup

a. Set the digital multimeter for:

Range	10 kilovolts DC

b. 10 KV test points and adjustments are shown in the Diagrams section:

Video Preamplifier board (A32)	Fig. 7-48
Scan Amp & Read Gun Supply (A38)	Fig. 7-51
High-Voltage Oscillator (A72)	Fig. 7-59
Horizontal & Z-Axis Amplifier board (A40)	Fig. 7-10
Main Interconnect board (A68)	Fig. 7-41

26. -10 kilovolts check/adjust

a. With power off, set the PRINCIPAL POWER SWITCH to off and unplug the 7912AD power cord.

b. Loosen the two screws at the top of the crt shield toward the rear of the instrument and remove the side cover from the rear of the crt shield.

c. Remove the rear-panel crt shield marked "Danger 10 KV", unscrewing the three phillips-head screws that hold it in place.

d. Disconnect the crt socket and disassemble it as shown in Fig. 5-8.

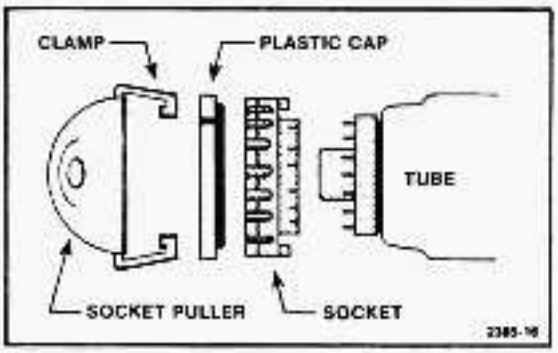


Fig. 5-8. The scan converter crt socket.

e. Connect the high-voltage digital multimeter test leads to chassis ground and to pin 2 of the crt socket (the pins are numbered on the socket).

f. Reconnect the crt socket to the tube pins.

g. If P624 on the Main Interconnect board (A68) or P212 on the High-Voltage Oscillator board (A72) was disconnected to remove the high voltage drive, reconnect it.

h. Reconnect the 7912AD power cord, turn on the PRINCIPAL POWER SWITCH, and turn on 7912AD power with MAIN INTENSITY and GRATICULE INTENSITY set to minimum.

i. CHECK - The digital multimeter reads -10.00 kilovolts ±0.10 kilovolt.

j. ADJUST - R618, High Voltage, on the Horizontal & Z-Axis Amplifier board (A40) for a digital multimeter reading of -10.00 kilovolts.

k. Turn off 7912AD power, turn off the PRINCIPAL POWER SWITCH and unplug the power cord.

l. Note that the digital multimeter reading has decayed to zero, then remove the high voltage test lead, reassemble the tube socket and plug it back onto the crt pins.

7912AD SERVICE

m. Replace the rear-panel crt shield and side cover at the rear of the crt shield. Check that the bottom of the crt side cover does not contact the back of the Horizontal & Z-Axis Amplifier board (A40).

n. Reconnect the power cord and return PRINCIPAL POWER SWITCH to on.

o. INTERACTION - Changing R618, High Voltage, on the Horizontal & Z-Axis Amplifier board (A40) affects the crt grid bias adjust step.

Intensity Limits

Required Equipment

Time base plug-in
Test oscilloscope
Time mark generator
Coaxial cable, 50-ohm
50-ohm feedthrough terminator, BNC connectors

Setup

a. Intensity limit test points and adjustments are shown in the Diagrams section:

Translator board (A22)	Fig. 7-44
Plug-in Interface board (A46)	Fig. 7-54
Horizontal & Z-Axis Amplifier board (A40)	Fig. 7-52
Main Interconnect board (A68)	Fig. 7-58

b. With 7912AD power off, disconnect P624 on the Main Interconnect board (A68) to disable writing gun high voltage.

c. With power off, install the 7912AD plug-in:

HORIZONTAL	Time base

d. With MAIN INTENSITY and GRATICULE INTENSITY set to minimum, turn on 7912AD power.

e. Set the time mark generator for:

Marker	10 milliseconds

f. Connect the time mark generator to the time base plug-in between:

Marker out	External trigger in

g. Set the time base plug-in for:

Time/division	200 nanoseconds (unmagnified)
Trigger source	External
Trigger level	Triggered sweep

h. Set the test oscilloscope for:

Volts/division	0.5 volt (5 volts at probe tip)
Amplifier input coupling	DC
Time/division	2 milliseconds
Trigger source	Internal
Trigger slope	Positive
Horizontal position	Trace begins at graticule center

27. Lower intensity limit adjust

a. Connect the test oscilloscope to the Horizontal and Z-Axis Amplifier board (A40) between:

Amplifier input	TP844 (Z-Axis drive signal) through 10X probe

b. Establish a ground reference on the test oscilloscope: set amplifier input coupling to ground, position the trace one division from the bottom of the graticule, and return the amplifier input coupling to DC.

c. Wait for the scan converter tube to stabilize -- about five minutes after turn-on, if previously warmed up.

d. Increase MAIN INTENSITY for an unblanking pulse top 30 volts (6 divisions) above the ground reference level on the test oscilloscope graticule (see Fig. 5-9). The baseline rises about 10 volts for a pulse amplitude of 20 volts, peak-to-peak.

e. Change the 7912AD time base for:

time/division	1 millisecond (unmagnified)

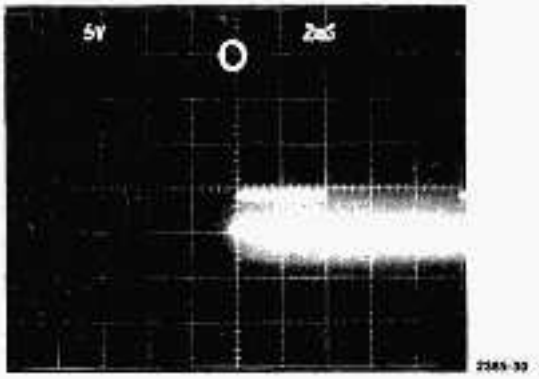


Fig. 5-9. Test oscilloscope display for setting lower intensity limit.

f. ADJUST - R137 on the Plug-In Interface board (A26) so the unblanking pulse top is limited to +23 volts (4.6 divisions) above the ground reference level.

28. Upper intensity limit check/adjust

a. Change the 7912AD time base plug-in for:

Time/division	10 microseconds (unmagnified)

b. CHECK - The amplitude of the unblanking pulse displayed at the test oscilloscope graticule center increases as the 7912AD time/division is changed in the following steps:

FROM	TO
10 microseconds	5 microseconds
5 microseconds	2 microseconds
2 microseconds	1 microsecond
1 microsecond	500 nanoseconds
500 nanoseconds	200 nanoseconds

c. ADJUST - R608 on the Translator board (A22) with the 7912AD time/division at 200 nanoseconds so the unblanking pulse top is limited

to less than 30 volts. Then adjust R608 just past the point where it causes the unblanking pulse amplitude to increase.

d. Reduce 7912AD MAIN INTENSITY to minimum.

29. Analog protect check

a. Change the time base plug-in for:

Time/division 1 millisecond

b. Increase 7912AD MAIN INTENSITY until the front-panel DECREASE INTENSITY light blinks.

c. CHECK - Unblanking pulse top is 21.5 volts from ground reference ±0.5 volt (4.3 divisions ±0.1 division).

d. Reduce MAIN INTENSITY to minimum.

e. Disconnect the test oscilloscope and time mark generator.

f. Turn off 7912AD power and reconnect P624 on the Main Interconnect board (A68).

Focus

Required Equipment

Time base plug-in
TV monitor
Coaxial cables, 75-ohm (2)
75-ohm feedthrough terminators, BNC connectors (2)

Setup

a. With power off, install the 7912AD plug-in:

HORIZONTAL	Time base

b. With MAIN INTENSITY and GRATICULE INTENSITY set to minimum, turn on 7912AD power.

c. Connect the TV monitor to the 7912AD with 75-ohm coaxial cables, terminating inputs in 75 ohms:

Video input	LINEAR COMP VIDEO OUT
Sync input	SYNC OUT

d. Set the TV monitor for external sync and set brightness and contrast controls for normal viewing.

e. Set the time base plug-in for:

Time/division	1 microsecond
Triggering	Automatic

f. Focus adjustments are shown in the Diagrams section:

Scan Amp & Read Gun Supply board (A38)	Fig. 7-51
Horizontal & Z-Axis Amplifier board (A40)	Fig. 7-52

30. Focus adjust

a. Increase GRATICULE INTENSITY to view the graticule on the TV monitor. If the dots do not appear with adequate intensity within a half-turn of the control, carefully increase R602, CRT Grid Bias, on the Horizontal & Z-Axis Amplifier board (A40) for adequate intensity.

b. ADJUST - (R5002), FOCUS control, on the front panel; (R5210) (for SN B100913 and up), focus centering, on the chassis; R448, Astigmatism, on the Horizontal & Z-Axis Amplifier board (A40), and R804, Mag Focus, and R918, Shield, both on the Scan Amp and Read Gun Supply board (A38) for best focus of graticule dots over the full display. These adjustments interact; repeat as necessary.

c. INTERACTION - These adjustments affect both geometry and writing rate. Also, changing R602, CRT Grid Bias, on the Horizontal & Z-Axis board (A40) affects the CRT grid bias adjust step.

31. Geometry adjust

a. ADJUST - R446, Geometry, on the Horizontal and Z-Axis Amplifier board (A40) for straight graticule rows and columns -- adjust for best overall effect to achieve least bowing and expansion or compression over the entire graticule.

TV Scale Factors

Required Equipment

Amplifier plug-in
Time base plug-in
Test oscilloscope
TV monitor
Coaxial cables, 75-ohm (2)
75-ohm feedthrough terminators, BNC connectors (2)

Setup

a. With power off, install the 7912AD plug-ins:

VERTICAL	Amplifer
HORIZONTAL	Time base

b. With MAIN INTENSITY and GRATICULE INTENSITY set to minimum, turn on 7912AD power.

c. Connect the TV monitor to the 7912AD with 75-ohm coaxial cables, terminating inputs in 75-ohms:

Video input	LINEAR COMP VIDEO OUT
Sync input	SYNC OUT

d. Set the TV monitor for external sync and set brightness and contrast controls for normal viewing.

e. Turn TV SCALE FACTORS switch to ON.

f. Set the amplifier volts/division and time base time/division controls to obtain readout with same number of characters.

7912AD SERVICE

g. The TV scale factors adjustment is shown in the Diagrams section:

Translator board (A22)	Fig. 7-45
Video Processor & Scan Control board (A28)	Fig. 7-47
MPU board (A54)	Fig. 7-55

32. TV scale factors centering check/adjust

a. CHECK - Scale factor readout is approximately centered horizontally on the TV monitor with the amplifier readout on the left and time base readout on the right.

b. ADJUST - R100, RO Ct, on the Translator board (A22) to approximately center the TV scale factor readout.

33. Readout current match check/adjust

a. Press and hold the amplifier plug-in trace-identify button (this requires a probe with an identify button in the case of the7A16P plug-in).

b. CHECK - Readout display for correct characters in the word IDENTIFY and for a stable display with no blinking.

c. ADJUST - R932 on the MPU board (A54) for correct readout of the word IDENTIFY. Vary the adjustment to find the range that provides correct readout; then leave the adjustment at the center of this range.

NOTE

For Instrument Serial Numbers B100826 & Up, R932 is a fixed resistor.

34. TV scale factors intensity check/adjust

a. Set the test oscilloscope for:

Volts/division	0.5 volt
Input coupling	DC
Time/division	2 milliseconds
Trigger source	Internal
Trigger slope	Positive

b. Connect the test oscilloscope to the 7912AD through 75-ohm coaxial cable, terminating in 75 ohms:

Amplifier input	LINEAR VIDEO OUT

c. Establish a ground reference on the test oscilloscope by noting the level displayed on the graticule with the input grounded.

d. CHECK - The amplitude of the narrow positive pulses is approximately one volt (two divisions) above the ground reference level.

e. ADJUST - R504, Readout Gain, on the Video Processor & Scan Control board (A28) for an amplitude of one volt (two divisions) above ground level on the narrow positive pulses.

Trigger Buffer

Required Equipment

Signal standardizer plug-in
7A19 Amplifier
7B92A Time BAse
Plug-in extender
Test oscilloscope
Sine wave generator
Coaxial cables, BNC connectors (2)
50-ohm feedthrough terminators, BNC connectors (2)

Setup

a. With power off, install the 7912AD plug-ins:

VERTICAL	Signal standardizer
HORIZONTAL	Plug-in extender

b. With MAIN INTENSITY and GRATICULE INTENSITY set to minimum, turn on 7912AD power.

c. Set the signal standardizer for:

Test	Com mode
Rep Rate	100 kilohertz

d. Set the test oscilloscope for:

Ch 1 volts/division	50 millivolts
Ch 2 volts/division	50 millivolts
Ch 1 input coupling	DC
Ch 2 input coupling	DC
Ch 2 polarity	Inverted
Vert amplifier mode	Add
Time/division	1 millisecond
Trigger mode	Automatic

e. Establish a ground reference for oscilloscope display at graticule center.

f. Disconnect the plug-in extender coaxial cables at A20 and B20 connectors on the plug-in extender.

g. Connect the test oscilloscope to the plug-in extender with coaxial cables, terminating inputs in 50 ohms:

Ch 1 amplifier input	A20 (+ trigger output)
Ch 2 amplifier input	B20 (- trigger output)

h. The trigger buffer adjustment is shown in the Diagrams section:

Plug-in Interface board (A46)	Fig. 7-54

35. Trigger buffer centering check/adjust

a. CHECK - Test oscilloscope deflection from ground reference is no greater than ±25 millivolts (0.5 division).

b. ADJUST - R414 on the Plug-In Interface board (A46) to set the test oscilloscope trace to the ground reference level.

36. Trigger buffer gain check

a. Change the signal standardizer plug-in for:

Test Position	Triggering gain Center bright line on test oscilloscope Display

b. CHECK - The gain lines match the test oscilloscope graticule within 0.15 division at three divisions above and below graticule center.

c. Disconnect the test oscilloscope.

37. Trigger buffer bandwidth check

a. With power off, change the 7912AD plug-ins for:

VERTICAL	7A19 Amplifier
HORIZONTAL	7B92A Time Base

b. With MAIN INTENSITY and GRATICULE INTENSITY set to minimum, turn on 7912AD power.

c. Set the 7A19 for:

Volts/division	0.5 volts

d. Set the sine wave generator for:

Amplitude	0.5 volts peak-to-peak into 50 ohms
Frequency	500 megahertz

e. Connect the sine wave generator to the 7912AD between:

Output	Amplifier plug-in input

f. CHECK - That the 7B92A triggering controls can be set for an internally triggered sweep (triggered indicator lights).

g. Disconnect the sine wave generator.

Video Processor Comparator

Required Equipment

Signal standardizer plug-in
Time base plug-in
Test oscilloscope

Setup

a. With power off, install the 7912AD plug-ins:

VERTICAL	Signal standardizer
HORIZONTAL	Time base

b. With MAIN INTENSITY and GRATICULE INTENSITY set to minimum, turn on 7912AD power.

c. Set the test oscilloscope for:

Ch 1 volts/division	20 millivolts (200 millivolts at probe tip)
Ch 2 volts/division	0.1 volt (1 volt at probe tip)
Ch 2 Polarity	+ Up
Vert amplifier mode	Alternate
Time/division	5 microseconds
Trigger source	Internal, channel 1

d. Video processor comparator test points and adjustments are shown in the Diagrams section:

Video Processor & Scan Control board (A28)	Fig. 7-47

e. Connect the test oscilloscope to the Video Processor and Scan Control board (A28) for:

Ch 1 amplifier input	TP600 through 10X probe
Ch 2 amplifier input	TP702, S.V., through 10X probe

f. Set the 7912AD for:

MODE DIGITAL

38. DC Schmitt check/adjust

a. Increase MAIN INTENSITY for a video pulse amplitude of 400 millivolts (two divisions) above the baseline on the channel 1 trace. The video pulse is detected from the common mode baseline written on the target and occurs on the test oscilloscope display midway between the higher pulses caused by blanking. On Fig. 5-10, the video pulse detected from the target can be seen at two points -- about midway between graticule center and the graticule edges.

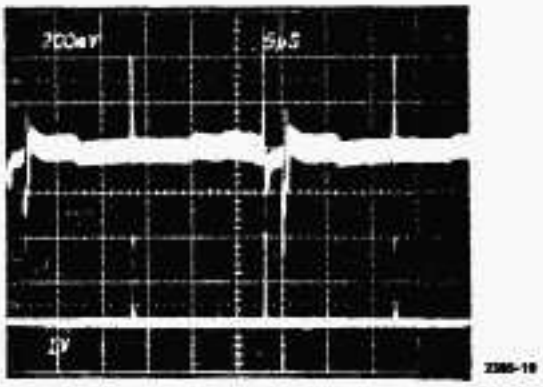


Fig. 5-10. Schmitted video check display.

b. CHECK - The channel 2 trace for pulses directly time-related to the video pulses on the channel 1 trace that are detected from the common mode baseline written on the target. These pulses are shown about midway between graticule center and the graticule edges in Fig. 5-10.

c. ADJUST - R635, DC Schmitt, on the Video Processor and Scan Control board (A28) for pulses on the channel 2 trace directly time-related to the common mode baseline video pulses on the channel 1 trace.

d. Disconnect the test oscilloscope.

n. INTERACTION - Changing R635, DC Schmitt, on the Video Processor and Scan Control board (A28) affects the grid bias adjust step.

Writing Gun Grid Bias

Required Equipment

Signal standardizer plug-in
Time base plug-in
TV monitor
Function generator
Test oscilloscope
Coaxial cable
75-ohm coaxial cables (2)
75-ohm feedthrough terminators (2)

Setup

a. With power off, install the 7912AD plug-ins:

VERTICAL	Signal standardizer
HORIZONTAL	Time base

b. With MAIN INTENSITY and GRATICULE INTENSITY set to minimum, turn on 7912AD power.

c. Connect the TV monitor to the 7912AD with 75-ohm coaxial cables, terminating in 75 ohms:

Video input	BINARY COMP VIDEO OUT
Sync input	SYNC OUT

d. Set the TV monitor for external sync and set brightness and contrast controls as necessary.

e. Set the signal standardizer plug-in for:

Test	Aux in

f. Set the time base plug-in for:

Time/division	10 microseconds (unmagnified)
Magnifier	X10 (1 microsecond effective time/div)
Trigger source	Internal
Holdoff	Minimum

g. Writing gun test points and adjustments are shown in the Diagrams section:

Horizontal & Z-Axis board (A40)	Fig. 7-52

h. Set the test oscilloscope for:

Volts/division	0.5 volt (5 volts at probe tip)
Input coupling	DC
Time/division	2 milliseconds
Trigger source	Internal
Trigger slope	Positive
Horizontal position	Trace begins at graticule center

i. Connect the test oscilloscope to the Horizontal and Z-Axis Amplifier board (A40) between:

Amplifier input	TP844 (Z-axis drive) through 10X probe

j. Set the function generator for:

Function	Sine wave
Frequency	500 kilohertz
Amplitude	Minimum
Position	Center

k. Connect the function generator to the signal standardizer plug-in between:

Output	Aux in

39. CRT grid bias adjust

a. Establish a ground reference on the test oscilloscope one division from the graticule bottom.

b. Wait for the scan converter tube to stabilize -- about 15 minutes after turn-on, if previously warmed up.

c. Increase the MAIN INTENSITY and GRATICULE INTENSITY controls until the graticule and sine wave are visible on the TV monitor. Increase R602, CRT Grid Bias, on the Horizontal & Z-Axis Amp board (A40) carefully, if necessary, to see the trace and graticule.

d. Set the function generator amplitude and position controls for a centered, eight-division display on the TV monitor.

e. Set GRATICULE INTENSITY to minimum.

f. Set the MAIN INTENSITY control for an unblanking pulse top 22.5 volts (4.5 divisions) above the reference level on the graticule (the baseline rises about 10 volts for a pulse amplitude of 12.5 volts, peak-to-peak). Watch the TV monitor carefully if MAIN INTENSITY is increased; reduce trace intensity with R602, CRT Grid Bias, on the Horizontal & Z-Axis Amplifier board (A40) if the trace blooms.

g. ADJUST - R602, CRT Grid Bias, on the Horizontal & Z-Axis Amplifier board (A40) so the full five cycles of the sine wave are just written. Adjust R602 for the minimum intensity needed to close the gaps on the trace after setting FOCUS for least gaps in display.

h. Reduce MAIN INTENSITY to minimum.

i. Disconnect the function generator and test oscilloscope.

Vertical Graticule and Amplifier

Required Equipment

Signal standardizer plug-in
Time base plug-in
TV monitor
XYZ monitor
Test oscilloscope
Coaxial cables, BNC connectors (3)
Coaxial cables, 75-ohm (2)
75-ohm feedthrough terminators, BNC connectors (2)

Setup

a. With power off, install the plug-ins:

VERTICAL	Signal standardizer
HORIZONTAL	Time base

b. With MAIN INTENSITY and GRATICULE INTENSITY set to minimum, turn on 7912AD power.

c. Connect the TV monitor to the 7912AD with 75-ohm coaxial cables, terminating inputs in 75 ohms:

Video input	BINARY COMP VIDEO OUT
Sync input	SYNC OUT

d. Set the TV monitor for external sync and set brightness and contrast controls as necessary.

e. Connect the XYZ monitor to the 7912AD XYZ outputs. The coaxial cable and termination impedances are not critical over short distances.

f. Set the signal standardizer plug-in for:

Test	Com mode
Rep rate	100 kilohertz

g. Set the time base plug-in for:

Time/division	1 microsecond
Triggering	Automatic

h. Set the test oscilloscope for:

Volts/division	0.1 volt (1 volt at probe tip)
Time division	500 microseconds
Trigger source	Internal
Trigger slope	Negative

i. Vertical graticule and amplifier test points and adjustments are shown in the Diagrams section:

Graticule Generator board (A24)	Fig. 7-45
X and Y Ramp Generator board (A26)	Fig. 7-46
Vertical Amplifier board (A34)	Fig. 7-79
IEEE 488 Interface board (A56)	Fig. 7-56

40. X scan rotation adjust

a. Increase MAIN INTENSITY for minimum viewable trace.

b. ADJUST - R1443, X Scan Rotation, on the X and Y Ramp Generator board (A26) for minimum number of TV lines crossed by baseline trace on the TV monitor.

41. Horizontal graticule ramp amplitude check/adjust

a. Connect the test oscilloscope to the Graticule Generator board (A24) between:

Amplifier input	TP840 (next to Q740) through 10X probe

It may be necessary to power down and remove the board in order to clip on to the test point.

b. CHECK - The staircase ramp amplitude is 5 volts ±0.1 volt (5 divisions ±0.1 division) from the first step above the baseline to the top of the ramp -- see Fig. 5-11.

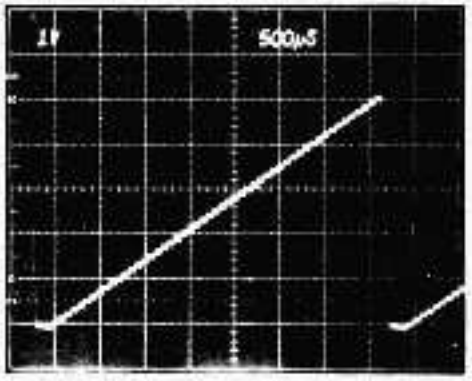


Fig. 5-11. Horizontal graticule ramp.

c. ADJUST - R540 on the Graticule Generator board (A24) for a staircase ramp amplitude of 5 volts (5 divisions) from the first step above the baseline to the top of the ramp.

d. Disconnect the test oscilloscope.

e. Change the TV monitor connection for:

Video input LINEAR COMP VIDEO OUT

2. Vertical graticule centering and gain check/adjust

a. Change the time base plug-in for:

Time/division 1 millisecond

b. While switching the signal standardizer plug-in test switch between com mode and vert or horiz gain, set the plug-in position control to match the bright center line of the gain lines to the com mode baseline.

c. With the signal standardizer plug-in test switch in vert or horiz gain, increase MAIN INTENSITY and GRATICULE INTENSITY to display both the graticule and the gain lines.

d. CHECK - The graticule matches the gain lines at three divisions above and below the bright center line ±0.06 division and the total deflection between these graticule lines is six divisions ±0.06 division.

e. ADJUST - R950, Vert Gain, and R850, Vert Position, on the Graticule Generator board (A24), so the graticule matches the gain lines three divisions above and below the bright center line.

3. Vertical graticule dots check/adjust

a. Reduce MAIN INTENSITY to minimum.

b. If the bottom row of graticule dots is off screen, note the position of R712, Vert Cent, on the Vertical Amplifier board (A34), and then change it to bring the bottom row of graticule dots on screen.

c. CHECK - Graticule dot columns are full with no dots missing and no dots below the bottom row.

d. ADJUST - R050 on the Graticule Generator board (A24), to fill the dot columns on the graticule with no dots missing and no extra dots (below bottom row of graticule).

e. If R712, Vert Cent, on the Vertical Amplifier board (A34) was changed above, restore it to its original position.

f. Press DIGITAL and observe that only major divisions are marked on the X-Y-Z monitor.

44. Vertical amplifier gain and centering adjust

a. Change the signal standardizer plug-in for:

Test	Vert or horiz step response
Position	Midrange
Amplitude	Midrange

b. Change the time base plug-in for:

Time/division	1 microsecond
Trigger source	Line

c. Increase MAIN INTENSITY to obtain two bands across the TV screen, each about 0.4 divisions high, changing the signal standardizer position and amplitude controls as necessary to view the two bands.

d. While repeatedly pressing DIGITAL, set the signal standardizer position and amplitude controls so the bands are partially off the top and bottom edges of the XYZ monitor display. The top and bottom of the display should be lines where the two bands end with the inside of each band more ragged due to trace blooming. These straight lines mark the edges of the digital scan on the target.

e. Reduce MAIN INTENSITY to minimum.

f. Set the monitor vertical position control and adjust R200 on the IEEE 488 Interface board (A56) to set the top and bottom edges of the bands on the top and bottom graticule lines of the XYZ monitor at the horizontal center of the graticule. This is shown in Fig. 5-12.

g. Press DIGITAL again to digitize the graticule.

h. ADJUST - While repeatedly pressing DIGITAL to display the effect, R712, Vert Cent, and R730, Vert Gain, on the Vertical Amplifier board (A24) to set the top and bottom dots in the center column of graticule dots on the top and bottom lines of XYZ monitor graticule. When properly set, only the inside half of each dot is visible (see Fig. 5-13).

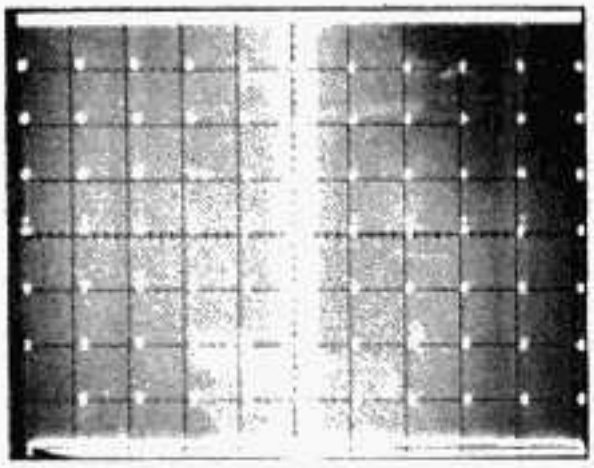


Fig. 5-12. Vertical amplifier gain and centering display setup.

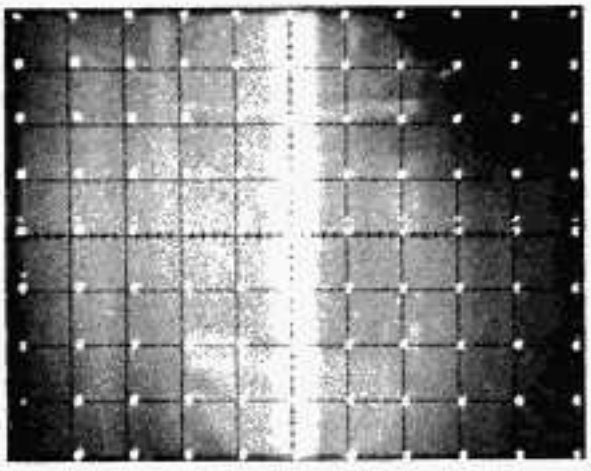


Fig. 5-13. Vertical amplifier gain and centering adjustment.

Horizontal Graticule and Amplifier

Required Equipment

Signal standardizer plug-in
Time base plug-in
TV monitor
XYZ monitor
Coaxial cables, BNC connectors (3)
Coaxial cables, 75-ohm (2)
75-ohm feedthrough terminators, BNC connectors (2)

Setup

a. Connect the TV monitor to the 7912AD with 75-ohm coaxial cables, terminating inputs in 75 ohms:

Video input	BINARY COMP VIDEO OUT
Sync input	SYNC OUT

b. Set the TV monitor for external sync and set brightness and contrast controls as necessary.

c. Connect the XYZ monitor to the 7912AD XYZ outputs. The coaxial cable and termination impedances are not critical over short distances.

d. With 7912AD power off, change the jumper on the Graticule Generator board (A24) that free-runs the graticule generator. Jumper P040 as follows:

P040	Pins 2-3

e. With power off, change the jumpers on the Translator board (A22) that bypass the MPU firmware intensity and allow the 7912AD intensity controls to work with the signal standardizer plug-in in the HORIZONTAL compartment. Jumper P700 (graticule intensity) and P800 (main intensity) as follows:

P700	Pins 2-3, CAL
P800	Pins 2-3, CAL

CAUTION

Setting P700 and P800 on the Translator board (A22) to other than RUN (pins 1 and 2) bypasses the 6800 MPU intensity protection for graticule intensity and main intensity respectively. Therefore, set the intensity controls carefully. Too high an intensity level can immediately damage the scan converter target.

f. With power off, install the plug-ins:

VERTICAL	Time base
HORIZONTAL	Signal standardizer

g. With MAIN INTENSITY and GRATICULE INTENSITY set to minimum, turn on 7912AD power.

h. Set the time base plug-in for:

Time/division	1 microsecond
Triggering	Automatic

i. Set the signal standardizer plug-in for:

Test	Vert or horiz gain
Rep rate	100 kilohertz

j. Set 7912AD MAIN INTENSITY for normal brightness while viewing the TV display.

k. Horizontal graticule and amplifier test points and adjustments are shown in the Diagrams section:

Translator board (A22)	Fig. 7-40
Graticule Generator board (A24)	Fig. 7-45
X and Y Ramp Generator board (A26)	Fig. 7-46
Horizontal and Z-Axis board (A40)	Fig. 7-52
IEEE 488 Interface board (A56)	Fig. 7-56

45. Horizontal graticule centering and gain check/adjust

a. While switching the signal standardizer plug-in test switch between com mode and vert or horiz gain, set the plug-in position control to match the bright center line of the gain lines to the com mode baseline.

b. With the signal standardizer in vert or horiz gain, increase GRATICULE INTENSITY and MAIN INTENSITY to display both the gain lines and the graticule dots.

c. CHECK - The graticule matches the gain lines at four divisions both to the left and to the right of the bright center line ±0.08 divisions with a total deflection between these graticule lines of eight divisions ±0.08 division.

d. ADJUST - R954, Horiz Gain, and R952, Horiz Position, on the Graticule Generator board (A24) so the graticule matches the gain lines at four divisions both to the left and to the right of the bright center line.

e. Turn off power and reset the jumper on the Graticule Generator board to its normal position. Jumper P040 as follows:

P040	Pins 1-2

f. With power off, reset the jumpers on the Translator board (A22) that enable the MPU firmware intensity protection. Jumper P700 (graticule intensity) and P800 (main intensity) as follows:

P700	Pins 1-2, RUN
P800	Pins 1-2, RUN

46. Horizontal amplifier limit center check/adjust

a. With power off, change the plug-ins for:

VERTICAL	Signal standardizer
HORIZONTAL	Time base

b. With MAIN INTENSITY and GRATICULE INTENSITY set to minimum, turn on the 7912AD power.

c. Change the signal standardizer plug-in for:

Test	Com mode

d. Change the time base plug-in for:

Trigger source	Line

e. Increase GRATICULE INTENSITY for normal brightness on the TV monitor display.

f. Increase MAIN INTENSITY for a baseline trace 0.4 divisions in trace height.

g. Press DIGITAL repeatedly, using the time base position control to move the trace and observe on the XYZ monitor that the trace beginning and end are squared off. This indicates the sweep is covering the portion of the target scanned in digital mode; the abrupt trace beginning and end mark the edges of the digital scan.

h. Reduce MAIN INTENSITY to minimum.

i. Set the monitor horizontal position control and adjust R300 on the IEEE 488 Interface board (A56) to set the beginning and end of the baseline trace on th XYZ monitor graticule edges.

j. With 7912AD power off, short TP214 and TP224 on the Horizontal and Z-Axis Amplifier board (A40).

k. With MAIN INTENSITY and GRATICULE INTENSITY set to minimum, turn 7912AD power back on.

l. Repeatedly press DIGITAL, increasing GRATICULE INTENSITY until a single line of dots appears on the XYZ monitor.

m. CHECK - The line of dots is at the monitor graticule center ±0.5 divisions.

n. ADJUST - R118, Limit Center, on the Horizontal and Z-Axis Amplifier board (A40) while repeatedly pressing DIGITAL so the line of dots is set on the monitor graticule center.

o. Turn off 7912AD power and remove the short between TP214 and TP224 on the Horizontal and Z-Axis Amplifier board (A40).

p. With MAIN INTENSITY and GRATICULE INTENSITY set to minimum, turn 7912AD power back on.

47. Horizontal amplifier gain and centering check/adjust

a. Increase GRATICULE INTENSITY and digitize the graticule.

b. CHECK - The outside columns of graticule dots match the vertical edges of the monitor graticule at the vertical center. Only the inside half of these dots should be visible -- some dots above and below may be missing.

c. ADJUST - While repeatedly pressing DIGITAL, R312, Horiz Gain, and R418, Horiz Centering, on the Horizontal and Z-Axis Amplifier board (A40) to match the outside columns of graticule dots with the outside edges of the XYZ monitor graticule at vertical center. Only the inside half of these dots should be visible -- some dots above and below may be missing.

48. Y scan rotation check/adjust

a. CHECK - The inside half of all dots in the outside dot graticule columns are visible.

b. ADJUST - While repeatedly digitizing, R1414, Y Scan Rotation, on the X and Y Ramp Generator board (A26) for as many dots as possible in the outside dot graticule columns.

Horizontal Amplifier Response

Required Equipment

Signal standardizer plug-in
7B92A Time Base plug-in
TV monitor
Time mark generator
75-ohm coaxial cables (2)
75-ohm feedthrough terminators (2)
50-ohm coaxial cables (2)
50-ohm feedthrough terminators (2)

Setup

a. With power off, install the 7912AD plug-ins:

VERTICAL	Signal standardizer
HORIZONTAL	7B92A Time Base

b. With MAIN INTENSITY and GRATICULE INTENSITY set to minimum, turn on 7912AD power.

c. Connect the TV monitor to the 7912AD with 75-ohm coaxial cables, terminating inputs in 75-ohms:

Video input	LINEAR COMP VIDEO OUT
Sync input	SYNC OUT

d. Set the signal standardizer plug-in for:

Test	Aux in
Position	Midrange
Amplitude	Minimum

e. Set the 7B92A for:

Time/division	1 millisecond
Trigger source	External

f. Set the time mark generator for:

Marker	1 millisecond

g. Connect the time mark generator to the 7912AD through 50-ohm coaxial cables, terminating inputs in 50-ohms:

Marker out	Signal standardizer aux in
Trigger out	7B92A ext trigger in

h. Horizontal amplifier response adjustments are shown in the Diagrams section:

Horizontal & Z-Axis Amp board (A4D)	Fig. 7-52

49. DC linearity check

a. Increase MAIN INTENSITY and GRATICULE INTENSITY to observe the time marks and graticule. Change the plug-in controls as necessary to obtain the display.

b. Set the 7B92A position and sweep cal controls to match the second and tenth time marks to the corresponding graticule columns exactly.

c. CHECK - Each time mark from the second to the tenth matches the graticule within 0.05 division.

50. Two-nanosecond timing check/adjust

NOTE

The 2-nanosecond and 500-picosecond timing steps should be performed with the time base normally used with this instrument; the sweep calibration control on the plug-in front panel must be adjusted correctly before performing this step.

a. Change the 7B92A for:

Position	Midrange
Time/division	2 nanoseconds

b. Change time mark generator for:

Marker	2 nanoseconds

c. Increase signal standardizer amplitude as necessary.

d. CHECK - Deflection between the second and tenth time marks is eight divisions, ±0.32 division.

e. ADJUST - C108 and C132, 2 nS Adj, on the Horizontal and Z-Axis Amplifier board (A40) equally for eight divisions deflection between the second and tenth time marks.

51. 500 picosecond timing check/adjust

a. Change the 7B92A for:

Time/division	500 picoseconds

b. Change the time mark generator for:

Marker	1 nanosecond (change connection, if necessary)

c. Change the 7912AD plug-in controls for a triggered display with sufficient vertical amplitude.

d. CHECK - Deflection between the second and tenth time marks is eight divisions ±0.4 division.

e. ADJUST - C326 on the Horizontal and Z-Axis Amplifier board (A40) for eight divisions deflection between the second and tenth time marks.

f. Disconnect time mark generator.

Vertical Amplifier Response

Required Equipment

Signal standardizer plug-in
Time base plug-in
TV monitor
Sine wave generator
75-ohm coaxial cables (2)
75-ohm feedthrough terminators (2)
50-ohm 5X attenuator

Setup

a. With power off, install the 7912AD plug-ins:

VERTICAL	Signal standardizer
HORIZONTAL	Time Base

b. With MAIN INTENSITY and GRATICULE INTENSITY set to minimum, turn on 7912AD power.

c. Connect the TV monitor to the 7912AD with 75-ohm coaxial cables, terminating inputs in 75-ohms:

Video in	LINEAR COMP VIDEO OUT
Sync in	SYNC OUT

d. Set the TV monitor for external triggering and set brightness and contrast for normal viewing.

e. Set signal standardizer plug-in for:

Test	Vert or horiz + step response
Amplitude	Midrange
Position	Midrange
Rep rate	100 Hz

f. Set the time base plug-in for:

Time/division	1 millisecond
Trigger source	Internal
Trigger slope	Negative

g. Vertical amplifier response adjustments are shown in the Diagrams section:

Vertical Amplifier board (A34)	Fig. 7-49

52. Low-frequency compensation check/adjust

a. Increase MAIN INTENSITY and GRATICULE INTENSITY to view the step response waveform and the graticule.

b. Set the signal standardizer plug-in controls for a centered, six-division display.

c. CHECK - For a flat pulse top with variations no greater than 0,06 division -- decrease GRATICULE INTENSITY, if necessary, to see the step response more clearly.

d. ADJUST - R749 and R764 on the Vertical Amplifier board (A34) for a flat pulse top.

53. High-frequency response check/adjust

a. Change the signal standardizer plug-in for:

Rep rate	1 MHz

b. Change the time base plug-in for:

Time/division	10 nanoseconds
Trigger slope	Positive

c. CHECK - For aberrations no greater than 5 percent total within the first 10 nanoseconds after transition (0.3 division vertically during first division horizontally).

d. ADJUST – The following adjustments on the Vertical Amplifier board (A3) for best transient response. Observe the pulse top in the specified interval after the positive transition at the indicated time base plug-in time/division:

Time/division	Observe	Adjust
10 nanoseconds	First 100 nanoseconds, ignore first 10 nanoseconds	R758
5 nanoseconds	First 25 nanoseconds, ignore first 2-3 nanoseconds	R743
5 nanoseconds	First 10 nanoseconds, ignore first 2-3 nanoseconds	L667
5 nanoseconds	First 5 nanoseconds	Position CRT termination resistor leads under CRT
2 nanoseconds	Front corner	C658, R658, C751, R751

d. Reduce MAIN INTENSITY.

e. INTERACTION - The high-frequency response adjustments affect bandwidth; if changed perform bandwidth check as well.

54. Vertical amplifier bandwidth check

a. Change the signal standardizer plug-in for:

Test	Vert or horiz freq resp
Amplitude	Maximum

b. Change the time base plug-in for:

Time/division	100 microseconds
Triggering	Automatic (free-run)

c. Set the sine wave generator for:

Frequency	Ref (above 3 megahertz)
Amplitude	Midrange

d. Connect the sine wave generator to the signal standardizer plug-in between:

Output	CW in through 5X attenuator

e. Increase GRATICULE INTENSITY to view the graticule.

f. Change the sine wave generator amplitude control and the signal standardizer position control to obtain a 10-division input signal. To do this, first obtain an eight-division display. Then move the display up one division without changing the amplitude. Finally, increase the amplitude to fill the bottom division of the display again.

g. Reduce the signal standardizer amplitude for six divisions of deflection peak-to-peak. This sets up the sine wave generator amplitude and signal standardizer amplitude within the range of the signal standardizer leveling amplifier. The CW leveled indicator should be lighted; if not, or if it goes out while sweeping the frequency, increase the sine wave generator amplitude until the light comes on.

h. Sweep the sine-wave generator frequency to find where the 7912AD response drops to 4.5 divisions peak-to-peak.

i. CHECK - The sine wave generator frequency is greater than or equal to 500 megahertz. This corresponds to a -3 dB point (4.2 divisions) with the 7A19 Amplifier plug-in. If this check fails, repeat the high-frequency response adjustment to peak up the transient response within the aberration limits.

55. Signal/graticule isolation check

a. Change sine wave generator for:

Frequency	Reference (greater than 3 megahertz)
Amplitude	Eight-division display

b. CHECK - A change in size or position of the graticule dots of no greater than 0.2 division while sweeping the sine wave generator from 250 megahertz to 500 megahertz (isolation of at least 40:1).

c. Disconnect the sine wave generator.

56. Vertical deflection linearity check

a. Change the signal standardizer plug-in for:

Test	Vert or horiz gain
Rep rate	100 kilohertz

b. Change the time base plug-in for:

Time/division	1 millisecond

c. Set the 7912AD MAIN INTENSITY and GRATICULE INTENSITY to view the gain lines and the graticule.

d. CHECK - For no more than 0.1 division difference between any two divisions of deflection of gain lines -- use signal standardizer position control to line up gain lines and graticule for comparison.

Resolution

Required Equipment

Amplifier plug-in
Time base plug-in
607 storage monitor
Function generator
7912AD Calibration Kit
50-ohm coaxial cables (2)
Coaxial cables (3)
50-ohm feedthrough terminators (2)
50-ohm 10X attenuator

Setup

a. With power off, install 7912AD plug-ins:

VERTICAL	Amplifier
HORIZONTAL	Time base

b. With MAIN INTENSITY and GRATICULE INTENSITY set to minimum, turn on 7912AD power.

c. Connect the 607 Storage Monitor to the 7912AD XYZ outputs with coaxial cables. For short distances, the cable and termination impedances are not critical.

d. Set monitor for non-store operation.

e. Set amplifier plug-in for:

Volts/division	10 millivolts
Position	Midrange

f. Set time base plug-in for:

Time/division	500 nanoseconds
Trigger source	External
Trigger slope	Positive

g. Set the Calibration Aid supplied in the 7912AD Calibration Kit for:

Video calibration switch	Preamp
Vertical delay switch	Out

h. Connect the Calibration Aid to the 7912AD between:

Cal	On the Video Processor & Scan Control board (A28) through the BNC-to-clip-lead adapter with the red clip to TP302, 500 kHz, and the black clip to TP706, Gnd. (shown on Fig. 7-47)
Probe power	PROBE POWER

i. Set the function generator for:

Function	Square wave
Frequency	1 megahertz
Amplitude	Minimum
Offset	Midrange

j. Connect the function generator to the 7912AD with coaxial cables between:

Output	Amplifier input through 10X attenuator, terminating in 50 ohms
Trig out	Time base ext trig input

57. Digital mode vertical resolution check

a. Increase MAIN INTENSITY and GRATICULE INTENSITY while repeatedly digitizing to view the function generator output and the graticule.

b. While repeatedly digitizing to see the effect, set the function generator amplitude and offset for a 25 millivolt (2.5 division) square wave near graticule center.

c. Reduce GRATICULE INTENSITY to minimum.

d. While repeatedly digitizing to see the effect, set MAIN INTENSITY and FOCUS for a well-defined trace. Use the minimum MAIN INTENISTY necessary.

e. Change the amplifier plug-in for:

Volts/division	1 volt

f. Press DIGITAL.

g. CHECK - For discrete level changes so a square wave is evident on the monitor. If this check fails, repeat the focus adjust step earlier in this procedure.

h. Disconnect the function generator.

58. Digital mode horizontal resolution check

a. Change the time base plug-in for:

Time/division	50 nanoseconds

b. Connect the Calibration Aid outputs to the 7912AD through 50-ohm coaxial cables, terminating the plug-in inputs in 50 ohms:

Resolution check out	Amplifier input
Trig out	Time base ext trig in

c. While repeatedly pressing DIGITAL to see the effect, set the 7912AD plug-in controls to position the positive transition for best display.

d. While repeatedly pressing DIGITAL to see the effect, increase MAIN INTENSITY and set FOCUS for a well defined trace with the edges separated, even on the leading edge of the pulse as a result of blooming (see Fig. 5-14).

e. Store the waveform on the monitor.

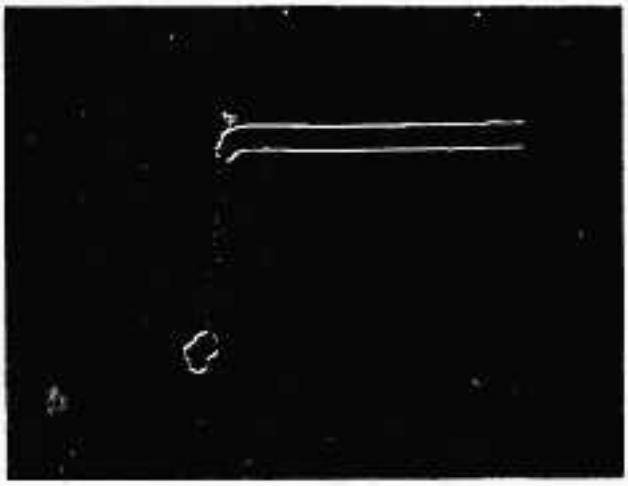


Fig. 5-14. Horizontal data resolution check setup.

f. Change the Calibration Aid for:

Vertical delay switch In

g. Digitize the delayed pulse.

h. CHECK - Trace edges on the rising portion of the two pulses displayed on the monitor are offset -- an example of a waveform obtained by this check is shown in Fig. 5-15. This check may require several tries with readjustment of the monitor intensity and stored brightness or persistence controls to display the offset between the pulses.

i. Disconnect the Calibration Aid.

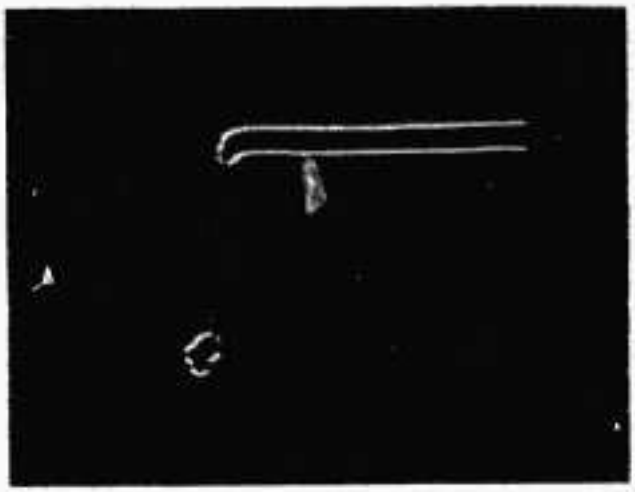


Fig. 5-15. Horizontal data resolution check showing offset between the delayed and undelayed pulses.

Scan Converter Target

Required Equipment

Signal standardizer plug-in
7B92A Time Base
TV monitor
XYZ monitor
Sine wave generator
75-ohm coaxial cables (2)
75-ohm feedthrough terminators
Coaxial cables (3)

Setup

a. With power off, install the 7912AD plug-ins:

VERTICAL	Signal standardizer
HORIZONTAL	Time base

b. With MAIN INTENSITY and GRATICULE INTENSITY set to minimum, turn on 7912AD power.

c. Connect the TV monitor to the 7912AD with 75-ohm coaxial cables, terminating inputs in 75 ohms:

Video input	LINEAR COMP VIDEO OUT
Sync input	SYNC OUT

d. Set the TV monitor for external triggering and set brightness and contrast for normal viewing.

e. Connect the XYZ monitor to the 7912AD XYZ outputs through coaxial cables. For short distances, the cable and termination impedances are not critical.

f. Set the XYZ monitor controls for normal viewing.

g. Set the signal standardizer plug-in for:

Test	Aux in
Position	Midrange
Amplitude	Midrange

h. Set the 7892A Time Base for:

Time/division	0.5 nanoseconds
Trigger mode	HF sync
Trigger source	Internal

i. Set the sine wave generator for:

Frequency	500 megahertz
Amplitude	Minimum

j. Connect the sine wave generator to the signal standardizer plug-in:

Output	Aux in

k. Increase MAIN INTENSITY and GRATICULE INTENSITY to view the trace and graticule.

59. TV mode writing rate check

a. Set the signal standardizer position and amplitude controls and the sine wave gererator amplitude control for an eight-division display.

b. Change the time base triggering controls for:

Trigger mode	Single sweep
Trigger source	Line

c. Change the 7912AD intensity controls for:

MAIN INTENSITY	Maximum
GRATICULE INTENSITY	Minimum

d. CHECK - The eight-division sine wave is fully written when the time base single-sweep reset button is pressed. Set TV monitor brightness

and contrast controls as necessary to see the trace. It may be necessary to repeat the check, setting the FOCUS control for optimum writing rate.

e. Reduce MAIN INTENSITY.

f. Disconnect the sine wave generator.

60. Digital mode writing rate check

a. Change the signal standardizer plug-in for:

Test	Vert or horiz + step response
Rep rate	1 megahertz

b. Change the 7B92A controls for:

Time/division	1 nanosecond
Trigger slope	Positive
Trigger mode	Automatic
Trigger source	Internal

c. Increase 7912AD intensity controls for:

MAIN INTENSITY	Visible trace
GRATICULE INTENSITY	Visible graticule

d. Change the 7B92A for:

Trigger mode	Normal

e. Change the signal standardizer position and amplitude controls and the time base trigger level and position controls to display an eight-division step within the center eight horizontal divisions on the graticule.

f. Change the 7B92A for:

Trigger mode	Single sweep

g. Change the 7912AD intensity controls for:

MAIN INTENSITY	Maximum
GRATICULE INTENSITY	Minimum

h. Press DIGITAL and then the time base SGL-SWP RESET button after a two-second wait for setup time in switching between TV and digital modes.

i. CHECK - That the full eight-division positive step is digitized and displayed on the XYZ monitor. It may be necessary to repeat the check, setting FOCUS for optimum writing rate.

NOTE

The following steps are to be used when digital writing rate is not within specifications.

j. Add .5 Volts to the target level voltage, as measured on the Video Preamplifier board, and adjust R1952 to this new voltage (see Step 16). Steps 22, 23, and 24 should be rechecked and Step 38 redone before returning to the writing rate check.

k. INTERACTION - Writing rate is related to adjustment of the target level, clamp level, and DC Schmitt level. These adjustments control the trade-off between writing rate and noise.

The clamp level is critical to achieving noise immunity in both the TV display and data; it must be checked and adjusted according to the clamp level check/adjust step earlier in this procedure.

If writing rate is borderline, it may be possible to reduce noise immunity and at the same time improve writing rate with the DC Schmitt and target level adjustments (see Part j).

In either case, change these adjustments only enough to achieve specified writing rate and check for target defects according to the digitized defects check (next step) at an ambient temperature of 40 degrees C or the maximum expected ambient temperature if below that. If noise immunity has been compromised, it is most noticeable at elevated temperatures as shown in the TV picture.

61. Digitized defects check

a. Reduce MAIN INTENSITY and GRATICULE INTENSITY to minimum

b. Press DIGITAL, then the time base single-sweep reset button.

c. CHECK - No more than six defects are displayed on the monitor with no two within 3 degrees on a vertical line passing through one of the points.

Composite Video Outputs

Required Equipment

Time base plug-in
Test oscilloscope
75-ohm coaxial cable
75-ohm feedthrough terminator

Setup

a. With power off, install the 7912AD plug-in:

HORIZONTAL	Time base

b. With MAIN INTENSITY and GRATICULE INTENSITY set to minimum, turn on 7912AD power.

c. Set the time base plug-in for:

Time/division	1 microsecond
Triggering	Automatic

d. Change the 7912AD for:

TV SCALE FACTORS	OFF

e. Set the test oscilloscope for:

Volts/division	500 millivolts
Input coupling	DC
Time/division	2 milliseconds
Trigger source	External
Trigger slope	Negative

f. Connect the test oscilloscope to the 7912AD between:

Amplifier input	LINEAR COMP VIDEO OUT through 75-ohm coaxial cable with 75-ohm termination at the amplifier input

Time base ext trigger input	TP700 on the X & Y Ramp Generator board (A26) shown on Fig. 7-46 through a 10X probe

62. LINEAR amplitude check

a. Establish a ground reference on the test oscilloscope display.

b. Set the test oscilloscope time base triggering controls for a triggered display.

c. Observe the pulse near center screen on the test oscilloscope while increasing MAIN INTENSITY for a pulse amplitude of about 1 volt (2 divisions) above the bright baseline. The pulse amplitude should limit as MAIN INTENSITY is increased a small amount and pulse width should spread as shown in Fig. 5-16.

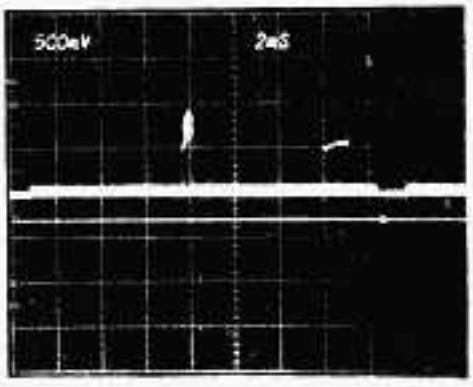


Fig. 5-16. Video pulse display of LINEAR amplitude check.

d. CHECK - Pulse amplitude is approximately 1 volt (2 divisions) from ground reference and the negative sync pulses are approximately -0.3 volts (0.6 division) in amplitude from the ground reference.

63. BINARY amplitude check

a. Change the test oscilloscope to connect the amplifier input to the 7912AD between:

Amplifier input	BINARY COMP VIDEO OUT through 75-ohm coaxial cable with 75-ohm termination at the amplifier input

b. CHECK - Positive pulse top is +1 volts ±0.1 volt (2 divisions ±0.2 division) and bright baseline is 0 to +0.3 volts (0 to +0.6 division) from the ground reference level. The negative sync pulses should have an amplitude of approximately 0.3 volts (-0.6 division) from the ground reference. The test oscilloscope display is shown in Fig. 5-17.

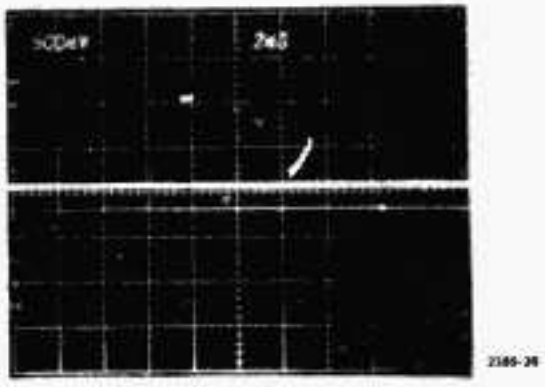


Fig. 5-17. BINARY amplitude check display.

c. Disconnect the test oscilloscope.

XYZ Display

Required Equipment

Signal standardizer plug-in
Time base plug-in
Test oscilloscope
XYZ monitor or test oscilloscope
Coaxial cables (3)

Setup

a. With power off, install the 7912AD plug-ins:

VERTICAL	Signal standardizer
HORIZONTAL	Time base

b. With MAIN INTENSITY and GRATICULE INTENSITY set to minimum, turn on 7912AD power.

c. Connect the XYZ monitor to the 7912AD XYZ outputs. Connect the monitor normally used with this instrument if available. For short distances, the cable and termination impedances are not critical. However, for this portion of the calibration procedure, an input impedance at the monitor of at least 100 kilohms is assumed.

d. Set the signal standardizer plug-in for:

Test	Vert or horiz step response
Position	Midrange
Amplitude	Midrange
Rep rate	100 kilohertz

e. Set the time base plug-in for:

Time/division	1 microsecond
Trigger source	Line

f. XYZ adjustments are shown in the Diagrams section:

IEEE 488 Interface board (A56)	Fig. 7-56

64. Y output gain check/adjust

a. NOTE - If Y output gain was adjusted as part of the vertical amplifier gain and centering adjust step with the monitor to be used with the instrument, skip this step.

b. Increase MAIN INTENSITY, while repeatedly pressing DIGITAL, to obtain two bands across the monitor screen. Change the signal standardizer position and amplitude controls so the bands are partially off the top and bottom edges of the display. The top and bottom of the display should be lines where the two bands end with the inside of each band more ragged due to trace blooming. The straight lines mark the edge of the digital scan on the target. This display is shown earlier in the procedure as Fig. 5-13. Change the monitor vertical position control and R200 on the ISEE 488 Interface board (A56) as necessary to observe the straight edges at the top and bottom of the display.

c. Reduce MAIN INTENSITY to minimum.

d. NOTE - If the monitor is not the one to be used with this instrument, skip to the alternate Y output gain step.

e. CHECK - The straight edges at the top and bottom on the display match the top and bottom edges of the monitor graticule.

f. ADJUST - R200 on the ISEE 488 Interface board (A56) and the monitor vertical position to set the top and bottom trace edges on the top and bottom graticule lines.

64A. Alternate Y output gain check/adjust

a. NOTE - If the monitor to be used with the instrument is not available, the Y output should be a nominal 1 volt peak-to-peak.

b. Set the test oscilloscope for:

Volts/division	200 millivolts
Time/division	10 microseconds
Trigger source	Internal
Trigger slope	Negative

c. Connect the test oscilloscope to the 7912AD without 50-ohm termination:

Amplifier input	Y

d. CHECK - Test oscilloscope display for a peak-to-peak amplitude of 1 volt ±0.04 volts (5 divisions ±0.2 division).

e. ADJUST - R200 on the IEEE 488 Interface board (A56) for a peak-to-peak amplitude of 1 volt (5 divisions).

f. Reconnect the 7912AD Y output to the XYZ monitor.

65. X output gain check/adjust

a. NOTE - If X output gain was adjusted as part of the horizontal limit center check/adjust step with the monitor to be used with the instrument, skip this step.

b. Change the signal standardizer plug-in for:

Test	Com mode

c. While repeatedly pressing DIGITAL, increase MAIN INTENSITY and observe a baseline trace on the monitor. Continue to increase MAIN INTENSITY while repeatedly digitizing the trace to cause trace blooming for a fat trace. Observe that the beginning and end of the trace are squared off -- this indicates the beginning and end of the digital scan. It may be necessary to change the time base position control while digitizing to center the sweep. Also, change the monitor horizontal position control and R300 on the IEEE 488 Interface board (A56) as necessary to observe the beginning and end of the trace.

d. Reduce MAIN INTENSITY to minimum.

e. NOTE - If the monitor is not the one to be used with this instrument, skip to the alternate X output gain step.

f. CHECK - The abrupt beginning of the trace occurs at the left edge of the monitor graticule and the abrupt end of the trace occurs at the right edge of the graticule.

g. ADJUST - R300 on the IEEE 488 Interface board (A56) and the monitor horizontal position control to set the abrupt beginning and end of trace at the edges of the monitor graticule.

65A. Alternate X output gain check/adjust

a. NOTE - If the monitor to be used with the instrument is not available, the X output should be a nominal 1 volt peak-to-peak.

b. Change the test oscilloscope for:

Time/division	200 microseconds

c. Connect the test oscilloscope to the 7912AD without 50-ohm input termination:

Amplifier input	X

d. CHECK - The ramp amplitude displayed on the test oscilloscope is 1 volt peak-to-peak ±0.04 volts (5 divisions ±0.2 division).

e. ADJUST - R300 on the IEEE 488 Interface board (A56) for a ramp amplitude of 1 volt peak-to-peak (5 divisions).

66. Z output gain check

a. Change the test oscilloscope for:

Volts/division	500 millivolts
Time/division	5 microseconds

b. Connect the test oscilloscope to the 7912AD without 50-ohm input termination:

Amplifier input	Z

c. CHECK - The amplitude of the unblanking pulse is at least 1 volt (2 divisions) peak-to-peak.

d. Disconnect the test oscilloscope.

Power Supply Remote Control

Required Equipment

Test oscilloscope
DM501 Digital Multimeter
Function generator
Coaxial cables (4)
BNC T connector (2)
BNC-to-banana plug adapter

Setup

a. Set the test oscilloscope for:

CH 1 volts/division	1 volt
Ch 2 volts/division	5 volts
Vert Amplifier mode	Chop
Time/division	50 milliseconds
Trigger source	Internal, vert ch 1
Trigger mode	Normal
Trigger slope	Negative
Trigger level	Less than zero

b. Set the DM501 for:

Range	2 kilohm

The DM501 is used only as a current source for a pull-up on the ENABLE output. Another current source of less than 16 milliamps can be substituted, such as a 1 kilohm resistor connected to +5 volts.

c. Set the function generator for:

Function	Square wave
Frequency	0.1 hertz
Amplitude and offset	+0.5 volts (low) to +2.1 volts (high)

d. Establish a ground reference level for the channel 2 display (requires auto trigger -- reset to normal when done).

e. Connect the test oscilloscope to the 7912AD with coaxial cables between:

Ch 1 input	ACTUATE through BNC T connector
Ch 2 input through BNC t connector	ENABLE

f. Connect the digital multimeter with coaxial cable between:

Input through BNC-to-banana plug adapter (ground side on DMM lo connector)	Test oscilloscope Ch 2 input

67. ACTUATE input check

a. With MAIN INTENSITY and GRATICULE INTENSITY set to minimum, connect the function generator to the 7912AD with coaxial cable between:

Output	ACTUATE

b. CHECK - The 7912AD powers on and off at the function generator frequency (about 5 seconds on, 5 seconds off).

68. ENABLE output checks

a. CHECK - The test oscilloscope channel 2 (ENABLE) waveform switches low 150 milliseconds ±50 milliseconds (3 divisions ±1 division) after the channel 1 (ACTUATE) waveform. The channel 1 transition may not be visible but occurs at the left graticule edge if the triggering and position controls are set correctly. The test oscilloscope display is shown in Fig. 5-18.

b. CHECK - The channel 2 (ENABLE) waveform low level is within 0.4 volts of ground reference level.

c. Disconnect the digital multimeter, test oscilloscope, and function generator.

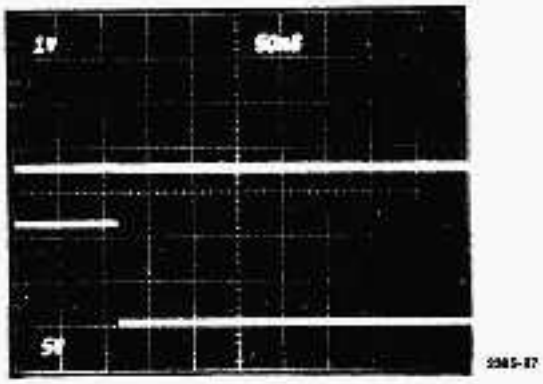


Fig. 5-18. The ENABLE output check display.

Sweep Gate Output

Required Equipment

Time base plug-in
Test oscilloscope
Coaxial cable
50-ohm feedthrough terminator

Setup

a. With power off, install the 7912AD plug-in

HORIZONTAL	Time base

b. With MAIN INTENSITY and GRATICULE INTENSITY set to minimum, turn on 7912AD power.

c. Set the time base plug-in for:

Time/division	1 microsecond
Triggering	Automatic

d. Set the test oscilloscope for:

Volts/division	0.2 volts
Time/division	2 microseconds
Trigger source	Internal
Trigger slope	Positive

e. Establish a ground reference on the test oscilloscope display.

f. Connect the test oscilloscope to the 7912AD with coaxial cable, terminating the amplifier input in 50-ohms:

Amplifier input	+ GATE OUT

69. + GATE OUT checks

a. CHECK - Pulse top is +0.5 volt ±0.05 volt (2.5 divisions ±0.25 division) referred to ground level.

b. CHECK - The positive pulse width is at least 10 microseconds (5 divisions).

c. Disconnect the test oscilloscope.

REPLACEABLE ELECTRICAL PARTS

PARTS ORDERING INFORMATION

Replacement parts are available from or through your local Tektronix, Inc. Field Office or representative.

Changes to Tektronix instruments are sometimes made to accommodate improved components as they become available, and to give you the benefit of the latest circuit improvements developed in our engineering department. It is therefore important, when ordering parts, to include the following information in your order: Part number, instrument type or number, serial number, and modification number if applicable.

If a part you have ordered has been replaced with a new or improved part, your local Tektronix, Inc. Field Office or representative will contact you concerning any change in part number.

Change information, if any, is located at the rear of this manual.

LIST OF ASSEMBLIES

A list of assemblies can be found at the beginning of the Electrical Parts List. The assemblies are listed in numerical order. When the complete component number of a part is known, this list will identify the assembly in which the part is located.

CROSS INDEX-MFR. CODE NUMBER TO MANUFACTURER

The Mfr. Code Number to Manufacturer index for the Electrical Parts List is located immediately after this page. The Cross Index provides codes, names and addresses of manufacturers of components listed in the Electrical Parts List.

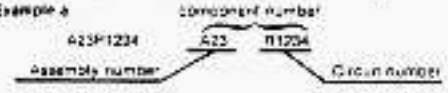
ABBREVIATIONS

Abbreviations conform to American National Standard Y1.1.

COMPONENT NUMBER (column one of the Electrical Parts List)

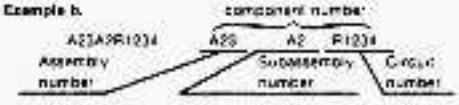
A numbering method has been used to identify assemblies, subassemblies and parts. Examples of this numbering method and typical expansions are illustrated by the following:

Example a.



Read: Resistor 1234 of Assembly 23

Example b.



Read: Resistor 1234 of Subassembly 2 of Assembly 23

Only the circuit number will appear on the diagrams and circuit board illustrations. Each diagram and circuit board illustration is clearly marked with the assembly number. Assembly numbers are also marked on the mechanical exploded views located in the Mechanical Parts List. The component number is obtained by adding the assembly number prefix to the circuit number.

The Electrical Parts List is divided and arranged by assemblies in numerical sequence (e.g. assembly A1 with its subassemblies and parts, precedes assembly A2 with its subassemblies and parts).

Chassis-mounted parts have no assembly number prefix and are located at the end of the Electrical Parts List.

TEKTRONIX PART NO. (column two of the Electrical Parts List)

Indicates part number to be used when ordering replacement part from Tektronix.

SERIAL/MODEL NO. (columns three and four of the Electrical Parts List)

Column three (3) indicates the serial number at which the part was first used. Column four (4) indicates the serial number at which the part was removed. No serial number entered indicates part is good for all serial numbers.

NAME & DESCRIPTION (column five of the Electrical Parts List)

In the Parts List, an item Name is separated from the description by a colon (:). Because of space limitations, an item Name may sometimes appear as incomplete. For further item Name identification, the U.S. Federal Cataloging Handbook H6-1 can be utilized where possible.

MFR. CODE (column six of the Electrical Parts List)

Indicates the code number of the actual manufacturer of the part. (Code to name and address cross reference can be found immediately after this page.)

MFR. PART NUMBER (column seven of the Electrical Parts List)

Indicates actual manufacturers part number.

CROSS INDEX - MFR. CODE NUMBER TO MANUFACTURER

Mfr. Code	Manufacturer	Address	City, State, Zip Code
00136	ACCOY ELECTRONICS CO	MATTS AND CHESTNUT ST	MT HOLLY SPRINGS PA 17065
00213	MYTRONICS COMPONENTS GROUP INC SUBSIDIARY OF MYTRONICS INC	ORANGE ST	BURLINGTON SC 29532
00353	STANDARD WESTON INC STANDARD CAPACITOR DIV	SUNSEAD RD P O BOX 128	PICKENS SC 29671
01121	ALLEN-BRADLEY CO	1201 SOUTH 2ND ST	MILWAUKEE WI 53204
01281	TRW INC TRW SEMICONDUCTOR DIV	14520 AVIATION BLVD	LAWNDALE CA 90260
01295	TEXAS INSTRUMENTS INC SEMICONDUCTOR GROUP	13500 N CENTRAL EXPRESSWAY P O BOX 225012 M/S 49	DALLAS TX 75265
02111	SPECTROL ELECTRONICS CORP SUB OF CORNING CORP	17070 E GALE AVE P O BOX 1220	CITY OF INDUSTRY CA 91749
02114	AMPEREX ELECTRONIC CORP FERROXCUBE DIV	5083 KINGS HWY	SAUGERTIES NY 12477
02735	RCA CORP SOLID STATE DIVISION	ROUTE 202	SOMERVILLE NJ 08876
03508	GENERAL ELECTRIC CO SEMI-CONDUCTOR PRODUCTS DEPT	W GENESEE ST	AUBURN NY 13021
03888	KDI PYROFILM CORP	60 S JEFFERSON RD	WHIPPANY NJ 07981
04009	CROUSE-HINDS ARROW HART INC ARROW HART DIV	103 HAWTHORN ST	HARTFORD CT 06105
04095	CAPCO INC	FORESIGHT INDUSTRIAL PARK P O BOX 2164	GRAND JUNCTION CO 81501
04222	AVX CERAMICS DIV OF AVX CORP	19TH AVE SOUTH P O BOX 867	MYRTLE BEACH SC 29577
04713	MOTOROLA INC SEMICONDUCTOR GROUP	5005 E MCDOWELL RD	PHOENIX AZ 85008
05347	ULTRONIX INC	461 N 22ND ST	GRAND JUNCTION CO 81501
05397	UNION CARBIDE CORP MATERIALS SYSTEMS DIV	11901 MADISON AVE	CLEVELAND OH 44101
05828	GENERAL INSTRUMENT CORP GOVERNMENT SYSTEMS DIV	600 W JOHN ST	HICKSVILLE NY 11802
05820	GENERAL ELECTRIC CO ELECTRONIC CAPACITOR PRODUCT SECTION	P O BOX 1388	COLUMBIA SC 29202
07263	FAIRCHILD CAMERA AND INSTRUMENT CORP SEMICONDUCTOR DIV	464 ELLIS ST	MOUNTAIN VIEW CA 94042
07716	TRW INC TRW ELECTRONICS COMPONENTS TRW IRC FIXED RESISTORS/BURLINGTON	2850 MT PLEASANT AVE	BURLINGTON IA 52601
11236	CTS OF BERNE INC	406 PARR ROAD	BERNE IN 46711
12697	CLAROSTAT MFG CO INC	LANER WASHINGTON ST	DOVER NH 03820
12954	MICROSEMI CORP	8700 E THOMAS RD P O BOX 1390	SCOTTSDALE AZ 85252
14099	SPRAGUE CORP	652 MITCHELL ROAD	MENDLEY PARK CA 91320
14193	CDI-C INC	1601 OLYMPIC BLVD	SANTA MONICA CA 90404
14433	ITT SEMICONDUCTORS DIV		WEST PALM BEACH FL
14552	MICRO/SEMICONDUCTOR CORP	2830 S FAIRVIEW ST	SANTA ANA CA 92704
14674	ELMWOOD SENSORS INC	1655 ELMWOOD AVENUE	CRANSTON RI 02907
14752	ELECTRO CUBE INC	1710 S DEL MAR AVE	SAN GABRIEL CA 91776
15238	ITT SEMICONDUCTORS A DIVISION OF INTERNATIONAL TELEPHONE AND TELEGRAPH CORP	500 BROADWAY P O BOX 168	LAWRENCE MA 01841
15454	AMETEK INC RODAN DIV	2905 BLUE STAR ST	ANAHEIM CA 92806
16329	SILICONIX CORP	811 E ARQUES	SUNNYVALE CA 94086
19396	ILLINOIS TOOL WORKS INC PAKTRON DIVISION	900 FOLLIN LANE S E	VIENNA VA 22180
19701	MEPCO/ELECTRA INC A NORTH AMERICAN PHILIPS CO	P O BOX 760	MINERAL WELLS TX 76067
20932	KYOCERA INC	11620 SORRENTO VALLEY RD	SAN DIEGO CA 92121
22526	DU PONT E I DE NEMOURS AND CO INC DU PONT CONNECTOR SYSTEMS	90 HUNTER LANE	CAMP HILL PA 17011
24546	CORNING GLASS WORKS	550 HIGH ST	BRADFORD PA 16701
25088	SIEMENS CORP	186 WOOD AVE S	ISELIN NJ 08830
25403	AMPEREX ELECTRONIC CORP SEMICONDUCTOR AND MICROCIRCUITS DIV	PROVIDENCE PIKE	SLATERSVILLE RI 02876

CROSS INDEX - MFR. CODE NUMBER TO MANUFACTURER

Mfr. Code	Manufacturer	Address	City, State, Zip Code
28720	HERCO/ELECTRA INC A NORTH AMERICAN PHILIPS COMPANY	5960 AUSTRO,ION AVE	WEST PALM BEACH FL 33407
27014	NATIONAL SEMICONDUCTOR CORP	2900 SEMICONDUCTOR DR	SANTA CLARA CA 95051
31433	UNION CARBIDE CORP ELECTRONICS DIV	PO BOX 5928	GREENVILLE SC 29606
32159	WEST-CAP ARIZONA	3201 E ELVIRA ROAD	TUCSON AZ 85706
32997	BOURNS INC TRIMPOT DIV	1200 COLUMBIA AVE	RIVERSIDE CA 92507
33095	SPECTRUM CONTROL INC	8061 AVONIA RD	FAIRVIEW PA 16415
34335	ADVANCED MICRO DEVICES	901 THOMPSON PL	SUNNYVALE CA 94086
44655	OHMITE MFG CO	3601 W HOWARD ST	SKOKIE IL 60076
50558	ELECTRONIC CONCEPTS INC	525 INDUSTRIAL WAY WEST	EATONTOWN NJ 07724
51406	MURATA ERIE NORTH AMERICA INC GEORGIA OPERATIONS	1148 FRANKLIN RD SE	MARIETTA GA 30067
51642	CENTRE ENGINEERING INC	2820 E COLLEGE AVE	STATE COLLEGE PA 16801
52763	STETTNER ELECTRONICS INC	6136 ADAMS BLVD PO BOX 21947	CHATTANOOGA TN 37421
54473	MATSUSHITA ELECTRIC CORP OF AMERICA	ONE PANASONIC WAY	SECAUCUS NJ 07094
54583	TDK ELECTRONICS CORP	755 GOTHOGIN BLVD	GARDEN CITY NY 11530
55680	NICHICON /AMERICA/ CORP	927 E STATE PKY	SCHAUMBURG IL 60195
56289	SPRAGUE ELECTRIC CO	87 MARSHALL ST	NORTH ADAMS MA 01247
57668	RFM CORP	16931 MILLIKEN AVE	IRVINE CA 92713
58801	GENERAL INSTRUMENT CORP OPTOELECTRONICS DIV	3400 WILLVIEW AVE	PALO ALTO CA 94304
58854	GTE PRODUCTS CORP LIGHTING PRODUCTS GROUP	60 BOSTON ST	SALEM MA 01970
58933	TUSONIX INC	2155 W FORBES BLVD	TUCSON, ARIZONA 85705
59821	CONTROLAB INC SUB NORTH AMERICAN PHILIPS CORP	7158 MERCHANT AVE	EL PASO TX 79915
63705	CERA-MITE CORPORATION	1327 6TH AVE	GRAFTON WI 53024
65526	GRIGAT CORP	258 SHEFFIELD ST	MOUNTAINSIDE NJ 07092
71400	BUSSMANN MFG CO MCGRAW EDISON CO	114 OLD STATE RD PO BOX 14460	ST LOUIS MO 63178
71590	GLOBE-UNION INC CENTRALAB ELECTRONICS DIV	HWY 20 W P O BOX 858	FORT DODGE IA 50501
73559	CARLINGSWITCH INC	505 NEW PARK AVE	WEST HARTFORD CT 06110
74970	JOHNSON E F CO	299 10TH AVE S W	WASECA MN 56093
75042	IRC INC IRC ELECTRONIC COMPONENTS IRC FIXED RESISTORS PHILADELPHIA DIV	401 N BROAD ST	PHILADELPHIA PA 19108
76493	BELL INDUSTRIES INC MILLER J W DIV	19070 REYES AVE P O BOX 5825	COMPTON CA 90224
80009	TEKTRONIX INC	4900 S W GRIFFITH DR P O BOX 500	BEAVERTON OR 97077
81073	GRAYHILL INC	561 HILLGROVE AVE P O BOX 373	LA GRANGE IL 60525
82877	ROTRON INC	7-8 HOSBROOK LANE	WOODSTOCK NY 12498
83777	E-SYSTEMS INC MELCOR DIV	41 E PARK DR P O BOX 549	HUNTINGTON IN 46750
91637	DALE ELECTRONICS INC	P O BOX 609	COLUMBUS NE 68601
TK0002	ARROW-W CORP	250 SHEFFIELD ST	MOUNTAINSIDE NJ 07092
TK0213	TOPTRON CORP	TOKYO	JAPAN
TK0946	SAN-O INDUSTRIAL CORP	170 WILBUR PL	BOHEMIA, LONG ISLAND NY 11716
TK1016	TOSHIBA AMERICA INC ELECTRONIC COMPONENTS DIV BUSINESS SECTOR	2692 DAIN AVE	TUSTIN CA 92680
TK1134	TUSONIX INC	2155 W FORBES BLVD	TUCSON, ARIZONA 85705
TK1395	DAIN AND ASSOCIATES	7833 S 180TH	KENT WA 98032
TK2042	DAIN & ASSOCIATES	7833 SO. 180TH	KENT, WA 98032

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Discont	Name & Description	Mfr. Code	Mfr. Part No.
A10	670-5153-00			CIRCUIT BD ASSY:MODE SWITCH	80009	670-5153-00
A12	670-5154-00	B010100	B079999	CIRCUIT BD ASSY:POWER SWITCH	80009	670-5154-00
A12	670-5154-01	B080000		CIRCUIT BD ASSY:POWER SWITCH	80009	670-5154-01
A16	670-5149-00	B010100	B083599	CIRCUIT BD ASSY:MEMORY CONTROL	80009	670-5149-00
A16	670-5149-02	B083600	B100773	CIRCUIT BD ASSY:MEMORY CONTROL	80009	670-5149-02
A16	670-5149-03	B100774		CIRCUIT BD ASSY:VERTICAL CONNECT	80009	670-5149-03
A18	670-5156-00	B010100	B100811	CIRCUIT BD ASSY:MICRO CONTROL MEMORY	80009	670-5156-00
A18	670-5156-02	B100812		CIRCUIT BD ASSY:MICRO CONTROL MEMORY	80009	670-5156-02
A20	670-5148-00	B010100	B010253	CIRCUIT BD ASSY:DATA BUFFER	80009	670-5148-00
A20	670-5148-01	B010254	B089999	CIRCUIT BD ASSY:DATA BUFFER	80009	670-5148-01
A20	670-5148-02	B090000	B100788	CIRCUIT BD ASSY:DATA BUFFER	80009	670-5148-02
A20	670-5148-03	B100787		CIRCUIT BD ASSY:DATA BUFFER	80009	670-5148-03
A22	670-5150-00	B010100	B069999	CIRCUIT BD ASSY:TRANSLATOR	80009	670-5150-00
A22	670-5150-02	B070000	B100784	CIRCUIT BD ASSY:TRANSLATOR	80009	670-5150-02
A22	670-5150-01	B010147	B069999	CIRCUIT BD ASSY:TRANSLATOR (OPTION 13 ONLY)	80009	670-5150-01
A22	670-5150-02	B070000	B100784	CIRCUIT BD ASSY:TRANSLATOR (OPTION 13 ONLY)	80009	670-5150-02
A22	670-5150-03	B100785	B100896	CIRCUIT BD ASSY:TRANSLATOR (OPTION 13 ONLY)	80009	670-5150-03
A22	670-5150-04	B100897		CIRCUIT BD ASSY:TRANSLATOR	80009	670-5150-04
A24	670-5146-00			CIRCUIT BD ASSY:GRATICULE GENERATOR	80009	670-5146-00
A26	670-5147-00	B010100	B039999	CIRCUIT BD ASSY:RAMP GENERATOR	80009	670-5147-00
A26	670-5147-01	B040000	B060648	CIRCUIT BD ASSY:RAMP GENERATOR	80009	670-5147-01
A26	670-5147-02	B060649	B080713	CIRCUIT BD ASSY:RAMP GENERATOR	80009	670-5147-02
A26	670-5147-03	B080714		CIRCUIT BD ASSY:RAMP GENERATOR	80009	670-5147-03
A28	670-5145-00	B010100	B070678	CIRCUIT BD ASSY:VIDEO PROCESSOR	80009	670-5145-00
A28	670-5145-01	B070680	B079999	CIRCUIT BD ASSY:VIDEO PROCESSOR	80009	670-5145-01
A28	670-5145-02	B080000		CIRCUIT BD ASSY:VIDEO PROCESSOR	80009	670-5145-02
A32	670-4377-01			CIRCUIT BD ASSY:VIDEO PREAMPL	80009	670-4377-01
A34	670-1630-03	B010100	B011270	CIRCUIT BD ASSY:VERTICAL AMPLIFIER	80009	670-1630-03
A34	670-1630-05	B011271		CIRCUIT BD ASSY:VERTICAL AMP	80009	670-1630-05
A38	670-5143-00	B010100	B100774	CIRCUIT BD ASSY:SCAN AMP & READING GUN	80009	670-5143-00
A38	670-5143-01	B100775		CIRCUIT BD ASSY:SCAN AMPL & READING GUN	80009	670-5143-01
A40	670-5144-00	B010100	B039999	CIRCUIT BD ASSY:HORIZONTAL AMPL & I OOIS	80009	670-5144-00
A40	670-5144-01	B040000	B079999	CIRCUIT BD ASSY:HORIZONTAL AMPL & I OOIS	80009	670-5144-01
A40	670-5144-02	B080003	B100766	CIRCUIT BD ASSY:HORIZONTAL AMPL & I OOIS	80009	670-5144-02
A40	670-5144-03	B100767	B100776	CIRCUIT BD ASSY:HORIZONTAL AMPL & I OOIS	80009	670-5144-03
A40	670-5144-04	B100777	B111279	CIRCUIT BD ASSY:HORIZONTAL AMPL & I OOIS	80009	670-5144-04
A40	670-5144-05	B111280		CIRCUIT BD ASSY:HORIZONTAL AMPL & I OOIS	80009	670-5144-05
A43A1	670-6789-00	B040000	B080729	CIRCUIT BD ASSY:HIGH VOLTAGE SHUTDOWN	80009	670-6789-00
A43A1	670-6789-01	B080730	B100765	CIRCUIT BD ASSY:HIGH VOLTAGE SHUTDOWN	80009	670-6789-01
A44	670-1525-06	B010100	B111577	CIRCUIT BD ASSY:VERTICAL INTERFACE	80009	670-1525-06
A44	670-8357-00	B111578		CIRCUIT BD ASSY:VERT INTFC	80009	670-8357-00
A45	----- -----			(AT BOARD ASSY:PLUG-IN INTERFACE (NOT REPLACEABLE ORDER 672-0588-01 OR 672-0734-00 FOR OPTION 04)		
A48	670-5160-00	B010100	B100835	CIRCUIT BD ASSY:VERTICAL OSCILLATOR (OPTION 04 ONLY)	80009	670-5160-00
A52	670-4953-00	B010100	B049999	CIRCUIT BD ASSY:M.P.U. MEMORY	80009	670-4953-00
A52	670-4953-01	B050000	B109999	CIRCUIT BD ASSY:M.P.U. MEMORY (SUBPART OF 672-0960-XX)	80009	670-4953-01
A54	670-4948-00	B010100	B040538	CIRCUIT BD ASSY:M.P.U.	80009	670-4948-00
A54	670-4948-01	B040539	B049999	CIRCUIT BD ASSY:M.P.U.	80009	670-4948-01
A54	670-4948-02	B050000	B080713	CIRCUIT BD ASSY:M.P.U.	80009	670-4948-02
A54	670-4948-03	B080714	B100793	CIRCUIT BD ASSY:M.P.U.	80009	670-4948-03
A54	670-4948-04	B100794	B100825	CIRCUIT BD ASSY:M.P.U.	80009	670-4948-04
A54	670-4948-05	B100826	B109999	CIRCUIT BD ASSY:M.P.U. (SUBPART OF 672-0960-XX)	80009	670-4948-05
A54	670-7542-00	B110000		CIRCUIT BD ASSY:MPU	80009	670-7542-00
A56	670-4946-00	B010100	B049999	CIRCUIT BD ASSY:8761211/GPIB INTERFACE	80009	670-4946-00

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Discont	Name & Description	Mfr. Code	Mfr. Part No.
A5A	670-4946-01	B060000	B089599	CIRCUIT BD ASSY:7912AD/GPIB INTERFACE	80009	670-4946-01
A5A	670-4946-02	B089600	B100869	CIRCUIT BD ASSY:7912AD/GPIB INTERFACE	80009	670-4946-02
A5A	670-4946-03	B100870	B105999	CIRCUIT BD ASSY:7912AD/GPIB INTERFACE	80009	670-4946-03
A5A	670-4946-04	B110000	B111210	CIRCUIT BD ASSY:INTERFACE	80009	670-4946-04
A5A	670-4946-05	B111211		CIRCUIT BD ASSY:INTERFACE	80009	670-4946-05
A62	670-5157-00	B010100	B089999	CIRCUIT BD ASSY:POWER CONNECTOR	80009	670-5157-00
A62	670-5157-01	B090000		CIRCUIT BD ASSY:POWER CONNECTOR	80009	670-5157-01
A6A	670-5152-00	B010100	B059999	CIRCUIT BD ASSY:MAIN INTERCONNECT	80009	670-5152-00
A6A	670-5152-01	B060000	B089999	CIRCUIT BD ASSY:MAIN INTERCONNECT	80009	670-5152-01
A6A	670-5152-02	B090000	B100849	CIRCUIT BD ASSY:MAIN INTERCONNECT	80009	670-5152-02
A6A	670-5152-04	B100850		CIRCUIT BD ASSY:MAIN INTERCONNECT	80009	670-5152-04
A77	670-5155-00	B010100	B039999	CIRCUIT BD ASSY:HIGH VOLTAGE ISC	80009	670-5155-00
A77	670-5155-01	B040000	B089999	CIRCUIT BD ASSY:HIGH VOLTAGE ISC	80009	670-5155-01
A77	670-5155-02	B090000		CIRCUIT BD ASSY:HIGH VOLTAGE ISC	80009	670-5155-02
A7A	119-0452-03	B010100	B045999	POWER SUPPLY:100V,POTTED	80009	119-0452-03
A7A	119-0452-05	B050000	B100912	POWER SUPPLY:100V,POTTED	80009	119-0452-05
A7A	119-0452-06	B100913	B111279	POWER SUPPLY:100V,POTTED	80009	119-0452-06
A7A	119-0452-07	B111280		POWER SUPPLY:100V,POTTED	80009	119-0452-07
A7S	670-8902-00	B111250		CIRCUIT BD ASSY:READING GUN SOCKET (NO ELECTRICAL PARTS)	80009	670-8902-00
A8A	670-4957-00	B010100	B012260	CIRCUIT BD ASSY:LINE POWER	80009	670-4957-00
A8A	670-4957-01	B012261	B012285	CIRCUIT BD ASSY:LINE POWER	80009	670-4957-01
A8A	670-4957-02	B012286	B020421	CIRCUIT BD ASSY:LINE POWER	80009	670-4957-02
A8A	670-4957-03	B020422	B039999	CIRCUIT BD ASSY:LINE POWER	80009	670-4957-03
A8A	670-4957-04	B040000	B089999	CIRCUIT BD ASSY:LINE POWER	80009	670-4957-04
A8A	670-4957-05	B090000	B100940	CIRCUIT BD ASSY:LINE POWER	80009	670-4957-05
A8A	670-4957-06	B100941		CIRCUIT BD ASSY:LINE POWER	80009	670-4957-06
A8Z	670-5364-00	B010100	B010273	CIRCUIT BD ASSY:INVERTER	80009	670-5364-00
A8Z	670-5364-01	B010274	B039999	CIRCUIT BD ASSY:INVERTER	80009	670-5364-01
A8Z	670-5364-02	B040000	B100861	CIRCUIT BD ASSY:INVERTER	80009	670-5364-02
A8Z	670-5364-03	B100862	B100940	CIRCUIT BD ASSY:INVERTER	80009	670-5364-03
A8Z	670-5364-04	B100941	B101267	CIRCUIT BD ASSY:INVERTER	80009	670-5364-04
A8Z	670-5364-05	B101268	B101114	CIRCUIT BD ASSY:INVERTER	80009	670-5364-05
A8Z	670-5364-06	B101115	B111464	CIRCUIT BD ASSY:INVERTER	80009	670-5364-06
A8Z	670-5364-07	B111465	B111613	CIRCUIT BD ASSY:INVERTER	80009	670-5364-07
A8Z	670-5364-08	B111614		CIRCUIT BD ASSY:INVERTER	80009	670-5364-08
A8A	670-4960-00	B010100	B089999	CIRCUIT BD ASSY:SOCKET	80009	670-4960-00
A8A	670-4960-01	B090000		CIRCUIT BD ASSY:SOCKET	80009	670-4960-01
A8G	670-5158-00	B010100	B079999	CIRCUIT BD ASSY:RECTIFIER FILTER	80009	670-5158-00
A8G	670-5158-02	B080000	B089999	CIRCUIT BD ASSY:RECTIFIER FILTER	80009	670-5158-02
A8G	670-5158-03	B090000	B100975	CIRCUIT BD ASSY:RECTIFIER FILTER	80009	670-5158-03
A8G	670-5158-04	B100976		CIRCUIT BD ASSY:RECTIFIER FILTER	80009	670-5158-04
A8B	670-5418-00	B010100	B079999	CIRCUIT BD ASSY:REGULATOR	80009	670-5418-00
A8B	670-5418-01	B040000	B089999	CIRCUIT BD ASSY:REGULATOR	80009	670-5418-01
A8B	670-5418-02	B080000	B099999	CIRCUIT BD ASSY:REGULATOR	80009	670-5418-02
A8B	670-5418-04	B090000		CIRCUIT BD ASSY:REGULATOR	80009	670-5418-04
B1D	670-5153-00			CIRCUIT BD ASSY:MODE SWITCH	80009	670-5153-00
B1005112	150-0049-01			LAMP,INCAND:5V,0.06A,B683,AGED & SEL	58854	6834515
B1005114	150-0048-01			LAMP,INCAND:5V,0.06A,B683,AGED & SEL	58854	6834515
B1005212	150-0048-01			LAMP,INCAND:5V,0.06A,B683,AGED & SEL	58854	6834515
B1005312	150-0048-01			LAMP,INCAND:5V,0.06A,B683,AGED & SEL	58854	6834515
B1005411	150-1035-00			LT EMITTING DIO:RED,655NM,40MD MIN	58361	QS678/MV5074Z
B1005412	150-0048-01			LAMP,INCAND:5V,0.06A,B683,AGED & SEL	58854	6834515
B105112	214-0828-00			SPRING,FLAT:0.562 X 0.312 X 0.08,CU BE	80009	214-0828-00
B105114	214-0828-00			SPRING,FLAT:0.562 X 0.312 X 0.08,CU BE	80009	214-0828-00
B105212	214-0828-00			SPRING,FLAT:0.562 X 0.312 X 0.08,CU BE	80009	214-0828-00

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Dscont	Name & Description	Mfr Code	Mfr Part No.
A1E5312	214-0628-00			SPRING,FLAT:0.562 X 0.312 X 0.00,CU BE	80009	214-0628-00
A1E6A12	214-0628-00			SPRING,FLAT:0.562 X 0.312 X 0.00,CU BE	80009	214-0628-00
A12	672-5154-00	B010100	B079999	CIRCUIT BD ASSY:POWER SWITCH	80009	672-5154-00
A12	672-5154-01	B080001		CIRCUIT BD ASSY:POWER SWITCH	80009	672-5154-01
A12D51E0	150-0088-01			LAMP,INCAND:5V,0.06A,BA9S,GLOB & SCL	58854	6834515
A12R100	307-0109-00	B080002		RES,FXD,CMPSN:0.2 OHM,5%,0.25W	80009	307-0109-00
A12S100	214-0626-00			SPRING,FLAT:0.562 X 0.312 X 0.00,CU BE	80009	214-0626-00
A16	670-5149-02	B010100	B089999	CIRCUIT BD ASSY:MEMORY CONTROL	80009	670-5149-02
A16	670-5149-02	B090000	B100779	CIRCUIT BD ASSY:MEMORY CONTROL	80009	670-5149-02
A16	670-5149-03	B100780		CIRCUIT BD ASSY:VERTICAL CONNECT	80009	670-5149-03
A16C1	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C2	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C3	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C11	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C13	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C21	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C23	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C41	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C42	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C43	290-0755-00			CAP,FXD,ELCTLT:100UF,+50%-10%,10V	54473	ECE-S1DV100L
A16C45	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C101	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C103	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C111	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C121	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C123	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C141	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C143	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C145	290-0755-00			CAP,FXD,ELCTLT:100UF,+50%-10%,10V	54473	ECE-S1DV100L
A16C146	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C201	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C203	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C205	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C207	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C211	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C213	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C221	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C223	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C231	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C233	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C235	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C243	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16E303	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16E311	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16E313	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16E321	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16E323	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16E331	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C341	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C343	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C401	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C403	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C405	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C411	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C413	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Discont	Name & Description	Mfr. Code	Mfr. Part No.
A16C421	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C423	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C425	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C441	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C501	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C503	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C505	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C513	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C521	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C523	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C531	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C533	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C535	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C601	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C603	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C611	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C613	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C621	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C631	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C633	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C635	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C701	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C703	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C711	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C713	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C721	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C723	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C731	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C811	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16C813	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16E821	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A16F146	159-0358-00			FUSE,WIRE LEAD:5A,125V	71400	BS
A16L42	108-0856-00			COIL,RF:FXD,3.3 UH	TK1395	108-0856-00
A16Q210	151-0190-00			TRANSISTOR:NPN,SI,TO-92	80009	151-0190-00
A16R11	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
A16R41	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
A16R233	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
A16R311	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
A16R415	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
A16R841	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
A16R701	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
A16TP31	214-0579-00			TERM,TEST POINT:BUS CD PC	80009	214-0579-00
A16U1	156-1225-00	B010100	B100904	MICROCKT,DGTL:TTL,INVERTING QUAD BUS RCVR	04713	SN74LS242N
A16U1	156-1225-02	B100905		MICROCKT,DGTL:INVERTING QUAD BUS XCVR,SCRN	01295	SN74LS242(MP3)
A16U2	156-1225-00	B010100	B100904	MICROCKT,DGTL:TTL,INVERTING QUAD BUS RCVR	04713	SN74LS242N
A16U3	156-1225-02	B100905		MICROCKT,DGTL:INVERTING QUAD BUS XCVR,SCRN	01295	SN74LS242(MP3)
A16U11	156-0385-02			MICROCKT,DGTL:HEX INVERTER	07263	74LS05FCQR
A16U13	156-0966-02			MICROCKT,DGTL:OCTAL BFR W/3 STATE OUT,SCRN	01295	SN74LS241MP3
A16U21	156-0386-02			MICROCKT,DGTL:TRIPLE 3-INP NAND GATE	07263	74LS10FCQR
A16U23	156-0641-02			MICROCKT,DGTL:DUAL 2-TO 4-LINE DCDR/DEMUX	04713	SN74LS139MDS
A16U31	156-0385-02			MICROCKT,DGTL:HEX INVERTER	07263	74LS04FCQR
A16U41	156-0388-00			MICROCKT,DGTL:DUAL D FLIP-FLOP	01295	SN74LS74AMP3
A16U43	156-0982-00	B010100	B100904	MICROCKT,DGTL:OCTAL D EDGE TRIG FLIP FLOP	18324	74LS374(M OR F)
A16U43	156-0982-03	B100905		MICROCKT,DGTL:OCTAL-D-EDGE TRIG FF	01295	SN74LS374N3
A16U101	156-0982-00	B010100	B100904	MICROCKT,DGTL:OCTAL D EDGE TRIG FLIP FLOP	18324	74LS374(M OR F)
A16U101	156-0982-03	B100905		MICROCKT,DGTL:OCTAL-D-EDGE TRIG FF	01295	SN74LS374N3
A16U103	156-0384-02			MICROCKT,DGTL:QUAD 4 INP NAND GATE	18324	N74S20(MB OR FB)
A16U111	156-0982-00	B010100	B100904	MICROCKT,DGTL:OCTAL D EDGE TRIG FLIP FLOP	18324	74LS374(M OR F)
A16U111	156-0982-03	B100905		MICROCKT,DGTL:OCTAL-D-EDGE TRIG FF	01295	SN74LS374N3

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Dscont	Name & Description	Mfr. Code	Mfr. Part No.
A16U113	156-0183-04			MICROCKT,DGTL:QUAD 2 INP NAND GATE,	18324	N74S00(N8 OR F8)
A16U121	156-0982-00	B010100	B100804	MICROCKT,DGTL:OCTAL D EDGE TRIG FLIP FLOP	18324	74LS374(N OR F)
A16U121	156-0902-03	B100805		MICROCKT,DGTL:OCTAL-D-EDGE TRIG FF	01295	SN74LS374N3
A16U123	156-0982-00	B010100	B100804	MICROCKT,DGTL:OCTAL D EDGE TRIG FLIP FLOP	18324	74LS374(N OR F)
A16U123	156-0902-03	B100805		MICROCKT,DGTL:OCTAL-D-EDGE TRIG FF	01295	SN74LS374N3
A16U141	156-0982-00	B010100	B100804	MICROCKT,DGTL:OCTAL D EDGE TRIG FLIP FLOP	18324	74LS374(N OR F)
A16U141	156-0902-03	B100805		MICROCKT,DGTL:OCTAL-D-EDGE TRIG FF	01295	SN74LS374N3
A16U143	156-0982-00	B010100	B100804	MICROCKT,DGTL:OCTAL D EDGE TRIG FLIP FLOP	18324	74LS374(N OR F)
A16U143	156-0902-03	B100805		MICROCKT,DGTL:OCTAL-D-EDGE TRIG FF	01295	SN74LS374N3
A16U201	156-0459-02			MICROCKT,DGTL:QUAD 2 INPUT 5 GATE,BURN IN	18324	N74S08(N8 OR F8)
A16U203	156-0180-04			MICROCKT,DGTL:QUAD 2 INP NAND GATE,	18324	N74S00(N8 OR F8)
A16U211	156-0180-04			MICROCKT,DGTL:QUAD 2 INP NAND GATE,	18324	N74S00(N8 OR F8)
A16U213	156-0323-02			MICROCKT,DGTL:HEX INVERTER,BURN-IN	18324	N74S04(N8 OR F8)
A16U221	156-0180-04			MICROCKT,DGTL:QUAD 2 INP NAND GATE,	18324	N74S00(N8 OR F8)
A16U223	156-0321-02			MICROCKT,DGTL:TRIPLE 3 INP NAND GATE	18324	N74S10(N8 OR F8)
A16U231	156-0321-02			MICROCKT,DGTL:TRIPLE 3 INP NAND GATE	18324	N74S10(N8 OR F8)
A16U233	156-1061-02			MICROCKT,DGTL:DUAL J-K EDGE FLIP FLOP	07263	74S109PC3X
A16U241	156-0413-02			MICROCKT,DGTL:DUAL 4 INP NAND LINE DRVR	07263	74S140PCQR
A16U243	156-0413-02			MICROCKT,DGTL:DUAL 4 INP NAND LINE DRVR	07263	74S140PCQR
A16U245	156-0413-02			MICROCKT,DGTL:DUAL 4 INP NAND LINE DRVR	07263	74S140PCQR
A16U301	156-1261-02			MICROCKT,DGTL:DUAL J-K EDGE FLIP FLOP	07263	74S109PCQR
A16U303	156-0304-02			MICROCKT,DGTL:QUAD 4 INP NAND GATE	18324	N74S20(N8 OR F8)
A16U311	156-1261-02			MICROCKT,DGTL:DUAL J-K EDGE FLIP FLOP	07263	74S109PCQR
A16U313	156-1261-02			MICROCKT,DGTL:DUAL J-K EDGE FLIP FLOP	07263	74S109PCQR
A16U321	160-0089-01			MICROCKT,DGTL:2048 X 8 PROM,PROGRAMMED	80009	160-0089-01
A16U341	156-1046-02			MICROCKT,DGTL:OCTAL D-TYPE EDGE TRIG FF	01295	SN74S374NP3/JP4
A16U343	156-1046-02			MICROCKT,DGTL:OCTAL D-TYPE EDGE TRIG FF	01295	SN74S374NP3/JP4
A16U393	156-1046-02			MICROCKT,DGTL:OCTAL D-TYPE EDGE TRIG FF	01295	SN74S374NP3/JP4
A16U401	156-1061-02			MICROCKT,DGTL:DUAL J-K EDGE FLIP FLOP	07263	74S109PC3X
A16U403	156-0732-02			MICROCKT,DGTL:QUAD 2 INP OR GATE	18324	N74S32(N8 OR F8)
A16U411	156-0765-04			MICROCKT,DGTL:SYN DP/DN BINARY COUNTER	01295	SN74S169N3
A16U413	156-0180-04			MICROCKT,DGTL:QUAD 2 INP NAND GATE,	18324	N74S00(N8 OR F8)
A16U415	156-0948-02			MICROCKT,DGTL:QUAD D FF,SCRN	01295	SN74S175J4
A16U421	160-0085-01			MICROCKT,DGTL:2048 X 4 PROM,PROGRAMMED	80009	160-0085-01
A16U423	160-0086-01			MICROCKT,DGTL:2048 X 4 PROM,PROGRAMMED	80009	160-0086-01
A16U425	160-0092-01			MICROCKT,DGTL:2048 X 4 PROM,PROGRAMMED	80009	160-0092-01
A16U441	156-1046-02			MICROCKT,DGTL:OCTAL D-TYPE EDGE TRIG FF	01295	SN74S374NP3/JP4
A16U443	156-1029-00			MICROCKT,DGTL:LSTTL,MICROPROGRAM SEQUENCE	27014	IDM29116J/C
A16U501	156-0320-03			MICROCKT,DGTL:TRIPLE 3 INP NAND GATE	18324	N74S11(N8 OR F8)
A16U503	156-0180-04			MICROCKT,DGTL:QUAD 2 INP NAND GATE,	18324	N74S00(N8 OR F8)
A16U511	156-1061-02			MICROCKT,DGTL:DUAL J-K EDGE FLIP FLOP	07263	74S109PCQR
A16U513	156-0323-02			MICROCKT,DGTL:HEX INVERTER,BURN-IN	18324	N74S04(N8 OR F8)
A16U521	160-0089-01			MICROCKT,DGTL:2048 X 8 PROM,PROGRAMMED	80009	160-0089-01
A16U523	160-0088-01			MICROCKT,DGTL:2048 X 8 PROM,PROGRAMMED	80009	160-0088-01
A16U541	156-1046-02			MICROCKT,DGTL:OCTAL D-TYPE EDGE TRIG FF	01295	SN74S374NP3/JP4
A16U543	156-1046-02			MICROCKT,DGTL:OCTAL D-TYPE EDGE TRIG FF	01295	SN74S374NP3/JP4
A16U601	156-0321-02			MICROCKT,DGTL:TRIPLE 3 INP NAND GATE	18324	N74S10(N8 OR F8)
A16U603	156-0124-03			MICROCKT,DGTL:8 INP DATA SELECTOR,SCRN	01295	SN74S151NP3
A16U611	156-0459-02			MICROCKT,DGTL:QUAD 2 INPUT 5 GATE,BURN IN	18324	N74S08(N8 OR F8)
A16U613	156-0707-03			MICROCKT,DGTL:QUAD 2 INP EXCL OR GATE,SEL	01295	SN74S86AP3
A16U621	160-0091-01			MICROCKT,DGTL:2048 X 8 PROM,PROGRAMMED	80009	160-0091-01
A16U623	160-0090-01			MICROCKT,DGTL:2048 X 8 PROM,PROGRAMMED	80009	160-0090-01
A16U641	156-0419-02			MICROCKT,DGTL:DUAL 4 INP NAND LINE DRVR	07263	74S140PCQR
A16U643	156-1029-00			MICROCKT,DGTL:LSTTL,MICROPROGRAM SEQUENCE	27014	IDM29116J/C
A16U701	156-0324-03			MICROCKT,DGTL:8 INP DATA SELECTOR,SCRN	01295	SN74S151NP3
A16U703	156-0324-03			MICROCKT,DGTL:8 INP DATA SELECTOR,SCRN	01295	SN74S151NP3
A16U711	156-0323-02			MICROCKT,DGTL:HEX INVERTER,BURN-IN	18324	N74S04(N8 OR F8)
A16U713	156-0180-04			MICROCKT,DGTL:QUAD 2 INP NAND GATE,	18324	N74S00(N8 OR F8)
A16U721	160-0082-00			MICROCKT,DGTL:256 X 4 PROM,PROGRAMMED	80009	160-0082-00

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Dscont	Name & Description	Mfr. Code	Mfr. Part No.
A16A723	160-3087-01			MICROCKT,DGTL:2048 X 8 PROM,PROGRAMMED	80009	160-3087-01
A16A743	156-1046-02			MICROCKT,DGTL:OCTAL D-TYPE EDGE TRIG FF	01295	SN74S574NP3/JP4
A16A801	156-1046-02			MICROCKT,DGTL:OCTAL D-TYPE EDGE TRIG FF	01295	SN74S574NP3/JP4
A16A821	160-3086-01			MICROCKT,DGTL:2048 X 8 PROM,PROGRAMMED	80009	160-3086-01
A16A831	156-1029-03			MICROCKT,DGTL:CNTL,MICROPROGRAM SEQUENCE	27014	[illegible]
A19	670-5156-00	B010100	B100811	CIRCUIT BD ASSY:MICRO CONTROL MEMORY	80009	670-5156-00
A19	670-5156-02	B100812		CIRCUIT BD ASSY:MICRO CONTROL MEMORY	80009	670-5156-02
A19C2	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A19C4	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A19C10	290-0755-00			CAP,FXD,ELCTLT:100UF,+50%-10%,10V	56473	ECE-A10V101L
A19C11	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A19C14	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A19C20	290-0755-00			CAP,FXD,ELCTLT:100UF,+50%-10%,10V	56473	ECE-A10V101L
A19C21	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A19C22	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A19C30	290-0755-00			CAP,FXD,ELCTLT:100UF,+50%-10%,10V	56473	ECE-A10V101L
A19C32	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A19C101	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A19C102	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A19C104	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A19C112	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A19C122	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A19C202	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A19C204	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A19C212	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A19C222	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A19C302	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A19C304	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A19C312	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A19C322	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A19C402	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A19C404	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A19C412	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A19C432	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A19E502	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A19E504	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A19E522	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A19C532	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A19C602	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A19C604	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A19C622	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A19C632	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A19C702	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A19C704	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A19C722	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A19C724	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A19C732	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A19E802	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A19E804	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A19C822	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A19C824	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A19C832	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A19C902	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A19C904	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A19C1002	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A19C1004	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A19C1102	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Dscont	Name & Description	Mfr. Code	Mfr. Part No.
A18C1112	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A18C1122	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A18C1202	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A18C1212	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A18C1302	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A18C1314	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A18F11	159-0059-00			FUSE,WIRE LEAD:5A,125V	71400	05
A18F32	159-0059-00			FUSE,WIRE LEAD:5A,125V	71400	05
A18L20	108-0858-00			COIL,RF:FXD,3.2 UH	TK1345	108-0858-00
A18R832	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	MTR25J-001KC
A18R1322	315-0471-00			RES,FXD,FILM:470 OHM,5%,0.25W	57668	MTR25J-E470E
A18U2	156-0722-02			MICROCKT,DGTL:HEX DRVR,4-10-Z LINE ENABLE	01295	SN74LS365ANP3
A18U4	156-0987-00	B010100	B090758	MICROCKT,DGTL:4096 X 1 STATIC R/W RAM	34335	DM9140BDC
A18U4	156-0987-02	B090759		MICROCKT,DGTL:MOS,4096 X 1 STATIC R/W RAM	80009	156-0987-02
A18U12	156-0987-00	B010100	B090758	MICROCKT,DGTL:4096 X 1 STATIC R/W RAM	34335	DM9140BDC
A18U12	156-0987-02	B090759		MICROCKT,DGTL:MOS,4096 X 1 STATIC R/W RAM	80009	156-0987-02
A18U22	156-0987-00	B010100	B090758	MICROCKT,DGTL:4096 X 1 STATIC R/W RAM	34335	DM9140BDC
A18U22	156-0987-02	B090759		MICROCKT,DGTL:MOS,4096 X 1 STATIC R/W RAM	80009	156-0987-02
A18U32	156-0987-00	B010100	B090758	MICROCKT,DGTL:4096 X 1 STATIC R/W RAM	34335	DM9140BDC
A18U32	156-0987-02	B090759		MICROCKT,DGTL:MOS,4096 X 1 STATIC R/W RAM	80009	156-0987-02
A18U112	156-0987-00	B010100	B090758	MICROCKT,DGTL:4096 X 1 STATIC R/W RAM	34335	DM9140BDC
A18U112	156-0987-02	B090759		MICROCKT,DGTL:MOS,4096 X 1 STATIC R/W RAM	80009	156-0987-02
A18U132	156-1042-00			MICROCKT,DGTL:NMOS,1024 X 4 STATIC R/W RAM	80009	156-1042-00
A18U212	156-0987-00	B010100	B090758	MICROCKT,DGTL:4096 X 1 STATIC R/W RAM	34335	DM9140BDC
A18U212	156-0987-02	B090759		MICROCKT,DGTL:MOS,4096 X 1 STATIC R/W RAM	80009	156-0987-02
A18U232	156-1042-00			MICROCKT,DGTL:NMOS,1024 X 4 STATIC R/W RAM	80009	156-1042-00
A18U312	156-0987-00	B010100	B090758	MICROCKT,DGTL:4096 X 1 STATIC R/W RAM	34335	DM9140BDC
A18U312	156-0987-02	B090759		MICROCKT,DGTL:MOS,4096 X 1 STATIC R/W RAM	80009	156-0987-02
A18U332	156-1042-00			MICROCKT,DGTL:NMOS,1024 X 4 STATIC R/W RAM	80009	156-1042-00
A18U412	156-0987-00	B010100	B090758	MICROCKT,DGTL:4096 X 1 STATIC R/W RAM	34335	DM9140BDC
A18U412	156-0987-02	B090759		MICROCKT,DGTL:MOS,4096 X 1 STATIC R/W RAM	80009	156-0987-02
A18U432	156-1042-00			MICROCKT,DGTL:NMOS,1024 X 4 STATIC R/W RAM	80009	156-1042-00
A18U502	156-0986-02			MICROCKT,DGTL:TRIPLE 3-INP NAND GATE	07263	74LS10PC2
A18U512	156-0987-00	B010100	B090758	MICROCKT,DGTL:4096 X 1 STATIC R/W RAM	34335	DM9140BDC
A18U512	156-0987-02	B090759		MICROCKT,DGTL:MOS,4096 X 1 STATIC R/W RAM	80009	156-0987-02
A18U532	156-1045-02			MICROCKT,DGTL:OCTAL D-TYPE EDGE TRIG FF	01295	SN74S374NP3/JP4
A18U532	156-1045-02			MICROCKT,DGTL:OCTAL D-TYPE EDGE TRIG FF	01295	SN74S374NP3/JP4
A18U602	156-0335-02			MICROCKT,DGTL:HEX INVERTER	07263	74LS04PC2A
A18U612	156-0987-00	B010100	B090758	MICROCKT,DGTL:4096 X 1 STATIC R/W RAM	34335	DM9140BDC
A18U612	156-0987-02	B090759		MICROCKT,DGTL:MOS,4096 X 1 STATIC R/W RAM	80009	156-0987-02
A18U632	156-1045-02			MICROCKT,DGTL:OCTAL D-TYPE EDGE TRIG FF	01295	SN74S374NP3/JP4
A18U632	156-1045-02			MICROCKT,DGTL:OCTAL D-TYPE EDGE TRIG FF	01295	SN74S374NP3/JP4
A18U702	156-0739-02			MICROCKT,DGTL:QUAD 2 INP OR GATE	18324	N74S32(N8 OR F3)
A18U712	156-0329-02			MICROCKT,DGTL:HEX INVERTER,BURN-IN	18324	N74S04(N8 OR F3)
A18U722	156-0522-02			MICROCKT,DGTL:QUAD 2 INP MUX W/3 STATE OUT	01295	SN74S257NP3
A18U724	156-0522-02			MICROCKT,DGTL:QUAD 2 INP MUX W/3 STATE OUT	01295	SN74S257NP3
A18U732	156-0522-02			MICROCKT,DGTL:QUAD 2 INP MUX W/3 STATE OUT	01295	SN74S257NP3
A18U802	156-0329-02			MICROCKT,DGTL:HEX INVERTER,BURN-IN	18324	N74S04(N8 OR F3)
A18U812	156-0498-02			MICROCKT,DGTL:QUAD 2 INPUT & GATE,BURN IN	18324	N74S08(N8 OR F3)
A18U872	156-0882-02			MICROCKT,DGTL:LOOK AHEAD CARRY GENERATOR,SCRN	01295	SN74S182NP3
A18U924	156-0471-02			MICROCKT,DGTL:DUAL 4/1 LINE DATA SEL	18324	N74LS253(N8OPTB)
A18U932	156-0471-02			MICROCKT,DGTL:DUAL 4/1 LINE DATA SEL	18324	N74LS253(N8OPTB)
A18U902	156-0325-02			MICROCKT,DGTL:DUAL 4/1 LINE DATA,BURN-IN	01295	SN74S153JP3
A18U912	156-0325-02			MICROCKT,DGTL:DUAL 4/1 LINE DATA,BURN-IN	01295	SN74S153JP3
A18U922	156-1043-00	B010100	B090758	MICROCKT,DGTL:LS11L,4 BIT MICROPRC SLICE	34335	BAM2901DDC
A18U922	156-1043-02	B090759		MICROCKT,DGTL:4-BIT MICROPROCESSOR,SCRN	34335	BAM2901DDB
A18U1012	156-0325-02			MICROCKT,DGTL:DUAL 4/1 LINE DATA,BURN-IN	01295	SN74S153JP3
A18U1012	156-0325-02			MICROCKT,DGTL:DUAL 4/1 LINE DATA,BURN-IN	01295	SN74S153JP3

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Discont	Name & Description	Mfr. Code	Mfr. Part No.
A18U1022	156-1043-00	B010100	B090758	MICROCKT,DGTL:LSTTL,4 BIT MICROPRC SLICE	34335	AM2901DC
A18U1022	156-1043-02			MICROCKT,DGTL:4-BIT MICROPROCESSOR,SCRN	34335	AM2901CDCB
A18U1102	156-0325-02			MICROCKT,DGTL:DUAL 4/1 LINE DATA,BURN-IN	01295	SN74S153JP3
A18U1112	156-0325-02			MICROCKT,DGTL:DUAL 4/1 LINE DATA,BURN-IN	01295	SN74S153JP3
A18U1202	156-0325-02			MICROCKT,DGTL:DUAL 4/1 LINE DATA,BURN-IN	01295	SN74S153JP3
A18U1212	156-0325-02			MICROCKT,DGTL:DUAL 4/1 LINE DATA,BURN-IN	01295	SN74S153JP3
A18U1222	156-1043-00	B010100	B090758	MICROCKT,DGTL:LSTTL,4 BIT MICROPRC SLICE	34335	AM2901DC
A18U1222	156-1043-02	B090759		MICROCKT,DGTL:4-BIT MICROPROCESSOR,SCRN	34335	AM2901CDCB
A18U1302	160-0109-01			MICROCKT,DGTL:256 BIT PROM W/3 STATE OUT	80009	160-0109-01
A18U1312	160-0109-00			MICROCKT,DGTL:PROM 256 BIT W/3 STATE OUT	80009	160-0109-00
A18U1322	156-1043-00	B010100	B090758	MICROCKT,DGTL:LSTTL,4 BIT MICROPRC SLICE	34335	AM2901DC
A18U1322	156-1043-02	B090759		MICROCKT,DGTL:4-BIT MICROPROCESSOR,SCRN	34335	AM2901CDCB
A20	670-5148-00	B010100	B010253	CIRCUIT BD ASSY:DATA BUFFER	80009	670-5148-00
A20	670-5148-01	B010254	B086699	CIRCUIT BD ASSY:DATA BUFFER	80009	670-5148-01
A20	670-5148-02	B090000	B130705	CIRCUIT BD ASSY:DATA BUFFER	80009	670-5148-02
A20	670-5148-03	B130707		CIRCUIT BD ASSY:DATA BUFFER	80009	670-5148-03
A20C24	290-0773-00	B090000		CAP,FXD,ELCTLT:10000UF,+50-10%,10VDC	54473	ECEB10V1025
A20C34	290-0773-00	B010100	B086699	CAP,FXD,ELCTLT:10000UF,+50-10%,10VDC	54473	ECEB10V1025
A20C48	283-0200-00	B010254	B089999	CAP,FXD,CER DI:0.010F,10%,50V	04222	SR205C103KAA
A20C100	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C106	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C108	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C116	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C118	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C126	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C128	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C136	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C138	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C146	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C148	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C208	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C210	281-0773-00	B090000		CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C218	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C226	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C228	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C236	281-0773-00	B010100	B089999	CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C238	281-0773-00	B010100	B089999	CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C238	283-0341-00	B090000		CAP,FXD,CER DI:0.047UF,10%,100V	04222	SR301C473KAA
A20C246	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C248	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C300	281-0773-00	B090000		CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C310	281-0773-00	B010100	B089999	CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C316	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C336	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C338	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C346	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C348	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C410	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C426	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C428	283-0167-00			CAP,FXD,CER DI:0.1UF,10%,100V	04222	3430-100C-103
A20C429	281-0628-00			CAP,FXD,CER DI:21PF,1%,500V	52769	290PL2D07 21PCLC
A20C430	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C500	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C510	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C520	290-0773-00			CAP,FXD,ELCTLT:10000UF,+50-10%,10VDC	54473	ECEB10V1025
A20C540	290-0773-00			CAP,FXD,ELCTLT:10000UF,+50-10%,10VDC	54473	ECEB10V1025
A20C600	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Dscont	Name & Description	Mfr Code	Mfr. Part No.
A20C602	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C610	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C616	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C620	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C630	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C634	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C636	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C640	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C646	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C704	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C706	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C710	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C716	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C718	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C720	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C746	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C748	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C800	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C826	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C827	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C828	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C830	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C832	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C834	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C836	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A20C8316	152-0141-02			SEMICOND DVC,DI:SR,SI,30V,150MA,30V,00-15	03508	D42S27 (1N4152)
A20C8826	152-0141-02			SEMICOND DVC,DI:SR,SI,30V,150MA,30V,00-15	03508	D42S27 (1N4152)
A20F34	159-0059-00	B090000		FUSE,MDRE LEAD:5A,125V	71400	6S
A20F44	159-0059-00	B010100	B089999	FUSE,MDRE LEAD:5A,125V	71400	6S
A20F530	159-0059-00			FUSE,MDRE LEAD:5A,125V	71400	6S
A20F540	159-0059-00			FUSE,MDRE LEAD:5A,125V	71400	6S
A20LA28	108-0182-00			COIL,RF:FIXED,2UH	80009	108-0182-00
A20R44	151-0150-00	B090000		TRANSISTOR:NPN,SI,TO-92	80009	151-0150-00
A20R62	315-0103-00	B090000		RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10K00J
A20R64	315-0103-00	B090000		RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10K00J
A20R68	315-0751-00	B010254	B089999	RES,FXD,FILM:750 OHM,5%,0.25W	57668	MTR25J-E750E
A20R110	307-0489-00			RES NTWK,FXD,FI:7,100 OHM,20%,1.0M	11236	750-81-R100
A20R120	307-0489-00			RES NTWK,FXD,FI:7,100 OHM,20%,1.0M	11236	750-81-R100
A20R130	307-0489-00			RES NTWK,FXD,FI:7,100 OHM,20%,1.0M	11236	750-81-R100
A20R140	307-0489-00			RES NTWK,FXD,FI:7,100 OHM,20%,1.0M	11236	750-81-R100
A20R200	307-0489-00			RES NTWK,FXD,FI:7,100 OHM,20%,1.0M	11236	750-81-R100
A20R210	307-0489-00			RES NTWK,FXD,FI:7,100 OHM,20%,1.0M	11236	750-81-R100
A20R220	307-0489-00			RES NTWK,FXD,FI:7,100 OHM,20%,1.0M	11236	750-81-R100
A20R230	307-0489-00			RES NTWK,FXD,FI:7,100 OHM,20%,1.0M	11236	750-81-R100
A20R256	315-0751-00	B090000		RES,FXD,FILM:750 OHM,5%,0.25W	57668	MTR25J-E750E
A20R240	307-0489-00			RES NTWK,FXD,FI:7,100 OHM,20%,1.0M	11236	750-81-R100
A20R300	315-0102-00	B090000		RES,FXD,FILM:1K OHM,5%,0.25W	57668	MTR25JE1K0
A20R306	315-0102-00	B010100	B089999	RES,FXD,FILM:1K OHM,5%,0.25W	57668	MTR25JE1K0
A20R310	307-0489-00			RES NTWK,FXD,FI:7,100 OHM,20%,1.0M	11236	750-81-R100
A20R320	307-0489-00			RES NTWK,FXD,FI:7,100 OHM,20%,1.0M	11236	750-81-R100
A20R326	307-0489-00			RES NTWK,FXD,FI:7,100 OHM,20%,1.0M	11236	750-81-R100
A20R330	307-0489-00			RES NTWK,FXD,FI:7,100 OHM,20%,1.0M	11236	750-81-R100
A20R340	307-0489-00			RES NTWK,FXD,FI:7,100 OHM,20%,1.0M	11236	750-81-R100
A20R400	307-0489-00			RES NTWK,FXD,FI:7,100 OHM,20%,1.0M	11236	750-81-R100
A20R406	307-0489-00			RES NTWK,FXD,FI:7,100 OHM,20%,1.0M	11236	750-81-R100
A20R410	307-0489-00			RES NTWK,FXD,FI:7,100 OHM,20%,1.0M	11236	750-81-R100
A20R420	307-0489-00			RES NTWK,FXD,FI:7,100 OHM,20%,1.0M	11236	750-81-R100
A20R430	307-0489-00			RES NTWK,FXD,FI:7,100 OHM,20%,1.0M	11236	750-81-R100
A20R440	307-0489-00			RES NTWK,FXD,FI:7,100 OHM,20%,1.0M	11236	750-81-R100
A20R606	307-0489-00			RES NTWK,FXD,FI:7,100 OHM,20%,1.0M	11236	750-81-R100

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Dscont	Name & Description	Mfr. Code	Mfr. Part No.
A208616	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25J(E)1K0
A208620	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25J(E)1K0
A208700	307-0488-00			RES NTWK,FXD,F1:7,100 OHM,20%,1.0W	11236	750-81-R100
A208720	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25J(E)1K0
A208726	307-0488-00			RES NTWK,FXD,F1:7,100 OHM,20%,1.0W	11236	750-81-R100
A208730	307-0488-00			RES NTWK,FXD,F1:7,100 OHM,20%,1.0W	11236	750-81-R100
A208736	307-0488-00			RES NTWK,FXD,F1:7,100 OHM,20%,1.0W	11236	750-81-R100
A208740	307-0488-00			RES NTWK,FXD,F1:7,100 OHM,20%,1.0W	11236	750-81-R100
A208806	307-0493-00			RES NTWK,FXD,F1:(7) 50 OHM,5%,0.125W	11236	750-81-R50 OHM
A208810	307-0488-00			RES NTWK,FXD,F1:7,100 OHM,20%,1.0W	11236	750-81-R100
A208816	307-0488-00			RES NTWK,FXD,F1:7,100 OHM,20%,1.0W	11236	750-81-R100
A208826	307-0488-00			RES NTWK,FXD,F1:7,100 OHM,20%,1.0W	11236	750-81-R100
A208840	307-0488-00			RES NTWK,FXD,F1:7,100 OHM,20%,1.0W	11236	750-81-R100
A208846	307-0493-00			RES NTWK,FXD,F1:(7) 50 OHM,5%,0.125W	11236	750-81-R50 OHM
A208910	307-0488-00			RES NTWK,FXD,F1:7,100 OHM,20%,1.0W	11236	750-81-R100
A208920	307-0488-00			RES NTWK,FXD,F1:7,100 OHM,20%,1.0W	11236	750-81-R100
A208930	307-0488-00			RES NTWK,FXD,F1:7,100 OHM,20%,1.0W	11236	750-81-R100
A20U8	156-0205-00	B010100	B060597	MICROCKT,DGTL:ECL,QUAD 2-INPUT NOR GATE	80009	156-0205-00
A20U8	156-0205-02	B060598		MICROCKT,DGTL:QUAD 2 INP NOR GATE	04713	MC10102PD/LD
A20U10	156-0394-00	B010100	B060612	MICROCKT,DGTL:ECL,QUAD TTL TO ECL CONV	04713	MC10124L
A20U10	156-0393-03	B060613		MICROCKT,DGTL:TTL TO ECL QUAD TRANSLATOR	04713	MC10124PD/LD
A20U28	156-0880-00	B010100	B060645	MICROCKT,DGTL:ECL,DUAL D MASTER SLAVE FF	04713	MC10231L
A20U28	156-0880-02	B060646		MICROCKT,DGTL:DUAL D MASTER SLAVE FF,SCRN	04713	MC10231PD/LD
A20U38	156-0880-00	B010100	B060645	MICROCKT,DGTL:ECL,DUAL D MASTER SLAVE FF	04713	MC10231L
A20U38	156-0880-02	B060646		MICROCKT,DGTL:DUAL D MASTER SLAVE FF,SCRN	04713	MC10231PD/LD
A20U48	156-0252-00	B010100	B060645	MICROCKT,DGTL:ECL,TRIPLE 4-3-3 INP NOR GATE	04713	MC10105L
A20U48	156-0252-02	B060646		MICROCKT,DGTL:TRIPLE 4-3-3 INP NOR GATE,SCRN	04713	MC10105PD/LD
A20U104	156-0252-00	B010100	B060645	MICROCKT,DGTL:ECL,TRIPLE 4-3-3 INP NOR GATE	04713	MC10105L
A20U104	156-0252-02	B060646		MICROCKT,DGTL:TRIPLE 4-3-3 INP NOR GATE,SCRN	04713	MC10105PD/LD
A20U114	156-0205-00	B010100	B060597	MICROCKT,DGTL:ECL,QUAD 2-INPUT NOR GATE	80009	156-0205-00
A20U114	156-0205-02	B060598		MICROCKT,DGTL:QUAD 2 INP NOR GATE	04713	MC10102PD/LD
A20U128	156-0252-00	B010100	B060645	MICROCKT,DGTL:ECL,TRIPLE 4-3-3 INP NOR GATE	04713	MC10105L
A20U128	156-0252-02	B060646		MICROCKT,DGTL:TRIPLE 4-3-3 INP NOR GATE,SCRN	04713	MC10105PD/LD
A20U134	156-0880-00	B010100	B060645	MICROCKT,DGTL:ECL,DUAL D MASTER SLAVE FF	04713	MC10231L
A20U134	156-0880-02	B060646		MICROCKT,DGTL:DUAL D MASTER SLAVE FF,SCRN	04713	MC10231PD/LD
A20U144	156-0205-00	B010100	B060597	MICROCKT,DGTL:ECL,QUAD 2-INPUT NOR GATE	80009	156-0205-00
A20U144	156-0205-02	B060598		MICROCKT,DGTL:QUAD 2 INP NOR GATE	04713	MC10102PD/LD
A20U200	156-0880-00	B010100	B060645	MICROCKT,DGTL:ECL,DUAL D MASTER SLAVE FF	04713	MC10231L
A20U200	156-0880-02	B060646		MICROCKT,DGTL:DUAL D MASTER SLAVE FF,SCRN	04713	MC10231PD/LD
A20U208	156-0880-00	B010100	B060645	MICROCKT,DGTL:ECL,DUAL D MASTER SLAVE FF	04713	MC10231L
A20U208	156-0880-02	B060646		MICROCKT,DGTL:DUAL D MASTER SLAVE FF,SCRN	04713	MC10231PD/LD
A20U212	156-0880-00	B010100	B060645	MICROCKT,DGTL:ECL,DUAL D MASTER SLAVE FF	04713	MC10231L
A20U212	156-0880-02	B060646		MICROCKT,DGTL:DUAL D MASTER SLAVE FF,SCRN	04713	MC10231PD/LD
A20U216	156-0640-00	B010100	B060645	MICROCKT,DGTL:ECL,8 LINE MULTIPLEXER	04713	MC10164L
A20U216	156-0640-02	B060646		MICROCKT,DGTL:8 LINE MULTIPLEXER	04713	MC10164PD/LD
A20U220	156-0880-00	B010100	B060645	MICROCKT,DGTL:ECL,DUAL D MASTER SLAVE FF	04713	MC10231L
A20U220	156-0880-02	B060646		MICROCKT,DGTL:DUAL D MASTER SLAVE FF,SCRN	04713	MC10231PD/LD
A20U226	156-1038-00	B010100	B060592	MICROCKT,DGTL:ECL,4 BIT BINARY COUNTER	07263	F100160C
A20U226	156-1038-01	B060593		MICROCKT,DGTL:4 BIT BINARY COUNTER	07263	SL81660
A20U230	156-0880-00	B010100	B060645	MICROCKT,DGTL:ECL,DUAL D MASTER SLAVE FF	04713	MC10231L
A20U230	156-0880-02	B060645		MICROCKT,DGTL:DUAL D MASTER SLAVE FF,SCRN	04713	MC10231PD/LD
A20U236	156-0316-00	B010100	B060612	MICROCKT,DGTL:ECL,QUAD 2-INP ECL TO TTL	04713	MC10125L
A20U236	156-0316-04	B060613		MICROCKT,DGTL:QUAD ECL TO TTL TRANSLATOR	04713	MC10125P/L
A20U240	156-0880-00	B010100	B060645	MICROCKT,DGTL:ECL,DUAL D MASTER SLAVE FF	04713	MC10231L
A20U240	156-0880-02	B060646		MICROCKT,DGTL:DUAL D MASTER SLAVE FF,SCRN	04713	MC10231PD/LD
A20U246	156-0880-00	B010100	B060645	MICROCKT,DGTL:ECL,DUAL D MASTER SLAVE FF	04713	MC10231L

Component No.	Tektronix Part No	Serial/Assembly No. Effective	Serial/Assembly No. Discont	Name & Description	Mfr. Code	Mfr. Part No.
A20U245	156-0860-02	B050516		MICROCKT,DGTL:DUAL D MASTER SLAVE FF,SCRN	04713	MC10231P0/LD
A20U300	156-0368-03	B010100	B060812	MICROCKT,DGTL:ECL,QUAD TTL TO ECL CONV	04713	MC10124L
A20U300	156-0368-03	B060813		MICROCKT,DGTL:TTL TO ECL QUAD TRANSLATOR	04713	MC10124P0/LD
A20U305	160-0106-00			MICROCKT,DGTL:PROM 32 X 8,PROGRAMMED	80009	160-0106-00
A20U310	160-0107-00			MICROCKT,DGTL:PROM 32 X 8,PROGRAMMED	80009	160-0107-00
A20U315	156-1038-00	B010100	B050552	MICROCKT,DGTL:ECL,4 BIT BINARY COUNTER	07263	F100160C
A20U315	156-1038-01	B050553		MICROCKT,DGTL:4 BIT BINARY COUNTER	07263	SL81660
A20U320	156-0759-00	B010100	B060645	MICROCKT,DGTL:ECL,DUAL 2 INP OR GATE	04713	MC10103 L OR ?
A20U320	156-0759-01	B060646		MICROCKT,DGTL:DUAL 2-INP OR GATE	80009	156-0759-01
A20U325	160-0105-00			MICROCKT,DGTL:PROM,32 X 8,PROGRAMMED	80009	160-0105-00
A20U330	156-0880-00	B010100	B060645	MICROCKT,DGTL:ECL,DUAL D MASTER SLAVE FF	04713	MC10231L
A20U330	156-0880-02	B060646		MICROCKT,DGTL:DUAL D MASTER SLAVE FF,SCRN	04713	MC10231P0/LD
A20U335	156-0880-00	B010100	B060645	MICROCKT,DGTL:ECL,DUAL D MASTER SLAVE FF	04713	MC10231L
A20U335	156-0880-02	B060646		MICROCKT,DGTL:DUAL D MASTER SLAVE FF,SCRN	04713	MC10231P0/LD
A20U340	156-2205-00	B010100	B060597	MICROCKT,DGTL:ECL,QUAD 2-INPUT NOR GATE	80009	156-2205-00
A20U340	156-2205-02	B060598		MICROCKT,DGTL:QUAD 2 INP NOR GATE	04713	MC10102P0/LD
A20U345	156-0880-00	B010100	B060645	MICROCKT,DGTL:ECL,DUAL D MASTER SLAVE FF	04713	MC10231L
A20U345	156-0880-02	B060646		MICROCKT,DGTL:DUAL D MASTER SLAVE FF,SCRN	04713	MC10231P0/LD
A20U400	156-1023-00	B010100	B050592	MICROCKT,DGTL:5-BIT MAGNITUDE COMPARATOR	04713	MC10166L
A20U400	156-1023-01	B050593		MICROCKT,DGTL:5 BIT MAGNITUDE COMPARATOR,SCREENED	04713	MC10166P0/LD
A20U405	156-0400-02			MICROCKT,DGTL:QUAD 2-INP & GATE	01295	SN74LS08NP3
A20U410	156-1023-00	B010100	B050592	MICROCKT,DGTL:5-BIT MAGNITUDE COMPARATOR	04713	MC10166L
A20U410	156-1023-01	B050593		MICROCKT,DGTL:5 BIT MAGNITUDE COMPARATOR,SCREENED	04713	MC10166P0/LD
A20U420	156-1019-00	B010100	B070673	MICROCKT,DGTL:DUAL 3 INPUT/OUTPUT OR	04713	MC10210 P OR L
A20U420	156-1019-02	B070674		MICROCKT,DGTL:DUAL 3 INPUT/OUTPUT OR,SCRN	04713	MC10210P0/LD
A20U430	156-0316-00	B010100	B060512	MICROCKT,DGTL:ECL,QUAD 2-INP ECL TO TTL	04713	MC10125L
A20U430	156-0316-04	B060513		MICROCKT,DGTL:QUAD ECL TO TTL TRANSLATOR	04713	MC10125P/L
A20U435	156-0205-00	B010100	B060597	MICROCKT,DGTL:ECL,QUAD 2-INPUT NOR GATE	80009	156-0205-00
A20U435	156-0205-02	B060598		MICROCKT,DGTL:QUAD 2 INP NOR GATE	04713	MC10102P0/LD
A20U440	156-0102-00	B010100	B060545	MICROCKT,DGTL:ECL,TRIPLE 2-3-2 INPUT GATE	04713	MC10105P/L
A20U440	156-0102-02	B060546		MICROCKT,DGTL:TRIPLE 2-3-2 INPUT GATE,SCREENED	04713	MC10105P0/LD
A20U445	156-0880-00	B010100	B060645	MICROCKT,DGTL:ECL,DUAL D MASTER SLAVE FF	04713	MC10231L
A20U445	156-0880-02	B060646		MICROCKT,DGTL:DUAL D MASTER SLAVE FF,SCRN	04713	MC10231P0/LD
A20U502	160-0103-00			MICROCKT,DGTL:PROM 256 BIT W/3 STATE OUT	80009	160-0103-00
A20U505	156-0844-02			MICROCKT,DGTL:SYN 4 BIT CNTR	01295	SN74LS161A(NP3)
A20U510	160-0104-00			MICROCKT,DGTL:PROM 256 BIT W/3 STATE OUT	80009	160-0104-00
A20U515	156-1063-00	B010100	B050592	MICROCKT,DGTL:6-BIT IDENTITY COMPARATOR	07263	93547DC
A20U515	156-1063-01	B050593		MICROCKT,DGTL:6 BIT IDENTITY COMPARATOR	07263	93547DCR
A20U520	156-1063-00	B010100	B050592	MICROCKT,DGTL:6-BIT IDENTITY COMPARATOR	07263	93547DC
A20U520	156-1063-01	B050593		MICROCKT,DGTL:6 BIT IDENTITY COMPARATOR	07263	93547DCR
A20U535	156-0522-02			MICROCKT,DGTL:QUAD 2 INP MUX W/3 STATE OUT	01295	SN74S257NP3
A20U540	156-0522-02			MICROCKT,DGTL:QUAD 2 INP MUX W/3 STATE OUT	01295	SN74S257NP3
A20U600	156-0840-02			MICROCKT,DGTL:DUAL D FF,SCRN	01295	SN74S175LJ4
A20U605	156-1038-00	B010100	B050592	MICROCKT,DGTL:ECL,4 BIT BINARY COUNTER	07263	F100160C
A20U605	156-1038-01	B050593		MICROCKT,DGTL:4 BIT BINARY COUNTER	07263	SL81660
A20U610	156-0844-02			MICROCKT,DGTL:SYN 4 BIT CNTR	01295	SN74LS161A(NP3)
A20U615	156-1038-00	B010100	B050592	MICROCKT,DGTL:ECL,4 BIT BINARY COUNTER	07263	F100160C
A20U615	156-1038-01	B050593		MICROCKT,DGTL:4 BIT BINARY COUNTER	07263	SL81660
A20U620	156-0844-02			MICROCKT,DGTL:SYN 4 BIT CNTR	01295	SN74LS161A(NP3)
A20U625	156-1038-00	B010100	B050592	MICROCKT,DGTL:ECL,4 BIT BINARY COUNTER	07263	F100160C
A20U625	156-1038-01	B050593		MICROCKT,DGTL:4 BIT BINARY COUNTER	07263	SL81660
A20U630	156-0844-02			MICROCKT,DGTL:SYN 4 BIT CNTR	01295	SN74LS161A(NP3)
A20U635	156-1038-00	B010100	B050592	MICROCKT,DGTL:ECL,4 BIT BINARY COUNTER	07263	F100160C
A20U635	156-1038-01	B050593		MICROCKT,DGTL:4 BIT BINARY COUNTER	07263	SL81660
A20U640	156-0522-02			MICROCKT,DGTL:QUAD 2 INP MUX W/3 STATE OUT	01295	SN74S257NP3
A20U645	156-0205-00	B010100	B060597	MICROCKT,DGTL:ECL,QUAD 2-INPUT NOR GATE	80009	156-0205-00
A20U645	156-0205-02	B060598		MICROCKT,DGTL:QUAD 2 INP NOR GATE	04713	MC10102P0/LD

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Dscont	Name & Description	Mfr. Code	Mfr. Part No.
A20U700	156-1023-00	B010100	B050592	MICROCKT,DGTL:6-BIT MAGNITUDE COMPARATOR	04713	MC10166L
A20U700	156-1023-01	B050593		MICROCKT,DGTL:6 BIT MAGNITUDE COMPARATOR,SC REENED	04713	MC10166P/LD
A20U710	156-0760-00	B010100	B050645	MICROCKT,DGTL:QUINT LATCH	04713	MC10175 L
A20U710	156-0760-01	B050646		MICROCKT,DGTL:QUINT LATCH,SCRN	04713	MC10175P/L
A20U720	156-0102-03	B010100	B050645	MICROCKT,DGTL:ECL,TRIPLE 2-3-2 INPUT GATE	04713	MC10105P/L
A20U720	156-0102-02	B050646		MICROCKT,DGTL:TRIPLE 2-3-2 INPUT GATE,SCREE NED	04713	MC10105P/LD
A20U730	156-0880-00	B010100	B050645	MICROCKT,DGTL:ECL,DUAL D MASTER SLAVE FF	04713	MC10231L
A20U730	156-0880-02	B050646		MICROCKT,DGTL:DUAL D MASTER SLAVE FF,SCRN	04713	MC10231P/LD
A20U740	156-1038-00	B010100	B050592	MICROCKT,DGTL:ECL,4 BIT BINARY COUNTER	07263	F10016DC
A20U740	156-1038-01	B050593		MICROCKT,DGTL:4 BIT BINARY COUNTER	07263	SUH1660
A20U800	156-0847-00	B010100	B050595	MICROCKT,DGTL:ECL,64-BIT REGISTER FILE	04713	MC10145L
A20U800	156-0847-01	B050596		MICROCKT,DGTL:64 BIT REGISTER FILE	07263	10145ADCQR
A20U805	156-0847-00	B010100	B050595	MICROCKT,DGTL:ECL,64-BIT REGISTER FILE	04713	MC10145L
A20U805	156-0847-01	B050596		MICROCKT,DGTL:64 BIT REGISTER FILE	07263	10145ADCQR
A20U810	156-0847-00	B010100	B050595	MICROCKT,DGTL:ECL,64-BIT REGISTER FILE	04713	MC10145L
A20U810	156-0847-01	B050596		MICROCKT,DGTL:64 BIT REGISTER FILE	07263	10145ADCQR
A20U815	156-0847-00	B010100	B050595	MICROCKT,DGTL:ECL,64-BIT REGISTER FILE	04713	MC10145L
A20U815	156-0847-01	B050596		MICROCKT,DGTL:64 BIT REGISTER FILE	07263	10145ADCQR
A20U820	156-0847-00	B010100	B050595	MICROCKT,DGTL:ECL,64-BIT REGISTER FILE	04713	MC10145L
A20U820	156-0847-01	B050596		MICROCKT,DGTL:64 BIT REGISTER FILE	07263	10145ADCQR
A20U825	156-0847-00	B010100	B050595	MICROCKT,DGTL:ECL,64-BIT REGISTER FILE	04713	MC10145L
A20U825	156-0847-01	B050596		MICROCKT,DGTL:64 BIT REGISTER FILE	07263	10145ADCQR
A20U830	156-0847-00	B010100	B050595	MICROCKT,DGTL:ECL,64-BIT REGISTER FILE	04713	MC10145L
A20U830	156-0847-01	B050596		MICROCKT,DGTL:64 BIT REGISTER FILE	07263	10145ADCQR
A20U835	156-0847-00	B010100	B050595	MICROCKT,DGTL:ECL,64-BIT REGISTER FILE	04713	MC10145L
A20U835	156-0847-01	B050596		MICROCKT,DGTL:64 BIT REGISTER FILE	07263	10145ADCQR
A20U840	156-0760-00	B010100	B050645	MICROCKT,DGTL:QUINT LATCH	04713	MC10175 L
A20U840	156-0760-01	B050646		MICROCKT,DGTL:QUINT LATCH,SCRN	04713	MC10175P/L
A20U845	156-1023-00	B010100	B050592	MICROCKT,DGTL:6-BIT MAGNITUDE COMPARATOR	04713	MC10166L
A20U845	156-1023-01	B050593		MICROCKT,DGTL:6 BIT MAGNITUDE COMPARATOR,SC REENED	04713	MC10166P/LD
A20U900	156-1035-00			MICROCKT,DGTL:128 X 1 STATIC RAM	04713	MCM10147L
A20U900	156-1035-01	B050646		MICROCKT,DGTL:128 X 1 STATIC RAM,SCRN	04713	MC10147L05
A20U910	156-0532-00	B010100	B050645	MICROCKT,DGTL:ECL,QUAD 2 INPUT MUX/LATCH	04713	MC10173L
A20U910	156-0532-02	B050646		MICROCKT,DGTL:QUAD 2 INPUT MUX/LATCH,SCRN	80009	156-0532-02
A20U915	156-0316-00	B010100	B050612	MICROCKT,DGTL:ECL,QUAD 2-INP ECL TO TTL	04713	MC10125L
A20U915	156-0316-04	B050613		MICROCKT,DGTL:QUAD ECL TO TTL TRANSLATOR	04713	MC10125P/L
A20U920	156-0532-00	B010100	B050645	MICROCKT,DGTL:ECL,QUAD 2 INPUT MUX/LATCH	04713	MC10173L
A20U920	156-0532-02	B050646		MICROCKT,DGTL:QUAD 2 INPUT MUX/LATCH,SCRN	80009	156-0532-02
A20U925	156-0316-00	B010100	B050612	MICROCKT,DGTL:ECL,QUAD 2-INP ECL TO TTL	04713	MC10125L
A20U925	156-0316-04	B050613		MICROCKT,DGTL:QUAD ECL TO TTL TRANSLATOR	04713	MC10125P/L
A20U930	156-0532-00	B010100	B050645	MICROCKT,DGTL:ECL,QUAD 2 INPUT MUX/LATCH	04713	MC10173L
A20U930	156-0532-02	B050646		MICROCKT,DGTL:QUAD 2 INPUT MUX/LATCH,SCRN	80009	156-0532-02
A20U935	156-0316-00	B010100	B050612	MICROCKT,DGTL:ECL,QUAD 2-INP ECL TO TTL	04713	MC10125L
A20U935	156-0316-04	B050613		MICROCKT,DGTL:QUAD ECL TO TTL TRANSLATOR	04713	MC10125P/L
A20U940	156-1035-00	B010100	B050645	MICROCKT,DGTL:128 X 1 STATIC RAM	04713	MCM10147L
A20U940	156-1035-01	B050646		MICROCKT,DGTL:128 X 1 STATIC RAM,SCRN	04713	MC10147L05
A20U945	156-0880-00	B010100	B050645	MICROCKT,DGTL:ECL,DUAL D MASTER SLAVE FF	04713	MC10231L
A20U945	156-0880-02	B050646		MICROCKT,DGTL:DUAL D MASTER SLAVE FF,SCRN	04713	MC10231P/LD
A20U948	158-0147-00			XTAL UNIT,QTZ:80MHZ 0.01%,SERIES	00136	20-5-1
A22	670-5150-00	B010100	B050999	CIRCUIT BD ASSY:TRANSLATOR	80009	670-5150-00
A22	670-5150-02	B070000	B100784	CIRCUIT BD ASSY:TRANSLATOR	80009	670-5150-02
A22	670-5150-01	B010147	B050999	CIRCUIT BD ASSY:TRANSLATOR (OPTION 13 ONLY)	80009	670-5150-01
A22	670-5150-02	B070000	B100784	CIRCUIT BD ASSY:TRANSLATOR (OPTION 13 ONLY)	80009	670-5150-02

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A22	670-5150-03	B100795	B100995	CIRCUIT BD ASSY:TRANSLATOR (OPTION 13 ONLY)	80009	670-5150-03
A22	670-5150-04	B100997		CIRCUIT BD ASSY:TRANSLATOR	80009	670-5150-04
A22C20	283-0648-00			CAP,FXD,MICA DI:10PF,5%,500V	00853	D155E10000
A22C41	283-0150-00			CAP,FXD,CER DI:680PF,5%,200V	59821	202NR0651J
A22C42	285-0882-00	B010100	B063999	CAP,FXD,PLASTIC:0.047UF,10%,100V	56289	LP660104716007
A22C42	285-0627-00	B010147		CAP,FXD,PLASTIC:0.0033UF,5%,100V	07716	TE844-33251
A22C111	283-0005-00			CAP,FXD,CER DI:0.01UF,+100-0%,250V	04222	SR303E103ZAA
A22C120	283-0649-00			CAP,FXD,MICA DI:10PF,5%,500V	00853	D155E10000
A22C141	283-0346-00			CAP,FXD,CER DI:0.47UF,+80-20%,100V	20932	5034E5100R0474Z
A22C221	283-0129-00			CAP,FXD,CER DI:0.56UF,20%,100V	04222	SR501C564MAA
A22C222	283-0346-00			CAP,FXD,CER DI:0.47UF,+80-20%,100V	20932	5034E5100R0474Z
A22C224	283-0886-00	B070000		CAP,FXD,MICA DI:890PF,2%,100V	00853	D151F891G0
A22C230	283-0346-00			CAP,FXD,CER DI:0.47UF,+80-20%,100V	20932	5034E5100R0474Z
A22C231	283-0129-00			CAP,FXD,CER DI:0.56UF,20%,100V	04222	SR501C564MAA
A22C310	281-0523-00			CAP,FXD,CER DI:100PF,20%,350V	52763	200PL1D07 100PMJ
A22C317	283-0886-00	B010100	B069999	CAP,FXD,MICA DI:890PF,2%,100V	00853	D151F891G0
A22C621	285-1134-00			CAP,FXD,PLASTIC:0.1UF,0.2%,100V	50558	MH12D104J
A22C622	285-1134-00			CAP,FXD,PLASTIC:0.1UF,0.2%,100V	50558	MH12D104J
A22C801	283-0100-00			CAP,FXD,CER DI:0.0047UF,10%,200V	04222	SR306A472KEB
A22C802	283-0069-01			CAP,FXD,CER DI:0.001UF,5%,100V	59821	Z5U1H0L102J
A22C803	283-0164-00			CAP,FXD,CER DI:2.2UF,20%,25V	04222	SR402C225MAA
A22C811	281-0523-00			CAP,FXD,CER DI:100PF,20%,350V	52763	200PL1D07 100PMJ
A22C821	283-0005-00			CAP,FXD,CER DI:0.01UF,+100-0%,250V	04222	SR303E103ZAA
A22C822	285-1134-00			CAP,FXD,PLASTIC:0.1UF,0.2%,100V	50558	MH12D104J
A22E831	283-0065-01			CAP,FXD,CER DI:0.001UF,5%,100V	59821	Z5U1H0L102J
A22E832	283-0005-00			CAP,FXD,CER DI:0.01UF,+100-0%,250V	04222	SR303E103ZAA
A22E833	285-0905-00			CAP,FXD,PLASTIC:0.33UF,5%,50V	04009	10X-15-2
A22E700	283-0005-00			CAP,FXD,CER DI:0.01UF,+100-0%,250V	04222	SR303E103ZAA
A22E721	283-0005-00			CAP,FXD,CER DI:0.01UF,+100-0%,250V	04222	SR303E103ZAA
A22E730	283-0065-01			CAP,FXD,CER DI:0.001UF,5%,100V	59821	Z5U1H0L102J
A22E841	281-0523-00			CAP,FXD,CER DI:100PF,20%,350V	52763	200PL1D07 100PMJ
A22E931	281-0523-00			CAP,FXD,CER DI:100PF,20%,350V	52763	200PL1D07 100PMJ
A22CR209	152-0141-02	B010100	B069999	SEMICOND DVC,DI:SM,SI,30V,150MA,30V,00=35	03508	042527 (1N4152)
A22CR222	152-0141-02	B070000		SEMICOND DVC,DI:SM,SI,30V,150MA,30V,00=35	03508	042527 (1N4152)
A22CR840	152-0141-02			SEMICOND DVC,DI:SM,SI,30V,150MA,30V,00=35	03508	042527 (1N4152)
A22Q210	151-0190-00			TRANSISTOR:NPN,SI,TO-92	80009	151-0190-00
A22Q633	151-1005-00			TRANSISTOR:FET,N-CHAN,SI,TO-106	04713	SPF685
A22Q840	151-0190-00			TRANSISTOR:NPN,SI,TO-92	80009	151-0190-00
A22R11	315-0302-00			RES,FXD,FILM:3K OHM,5%,0.25W	57668	NTR25J-E3K0
A22R22	315-0512-00			RES,FXD,FILM:5.1K OHM,5%,0.25W	57668	NTR25J-E5K1
A22R41	315-0562-00			RES,FXD,FILM:5.6K OHM,5%,0.25W	57668	NTR25J-E5K6
A22R42	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25J-E1K0
A22R43	321-0289-00			RES,FXD,FILM:10.0K OHM,1%,0.125W,TC=10	19701	5033E10K0F
A22R52	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25J-E1K0
A22R100	311-1239-00			RES,VAR,NONWW:10KR,5% OHM,0.5W	32997	3386X-D76-502
A22R101	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25J-E1K0
A22R111	315-0123-00			RES,FXD,FILM:12K OHM,5%,0.25W	57668	NTR25J-E12K
A22R112	315-0512-00			RES,FXD,FILM:5.1K OHM,5%,0.25W	57668	NTR25J-E5K1
A22R121	315-0151-00			RES,FXD,FILM:150 OHM,5%,0.25W	57668	NTR25J-E150E
A22R141	315-0512-00			RES,FXD,FILM:5.1K OHM,5%,0.25W	57668	NTR25J-E5K1
A22R201	315-0512-00			RES,FXD,FILM:5.1K OHM,5%,0.25W	57668	NTR25J-E5K1
A22R209	315-0104-00	B010100	B065999	RES,FXD,FILM:100K OHM,5%,0.25W	57668	NTR25J-E100K
A22R210	315-0103-00			RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10K00J
A22R211	315-0105-00			RES,FXD,FILM:1M OHM,5%,0.25W	19701	5043CX1M00J
A22R212	315-0472-00			RES,FXD,FILM:4.7K OHM,5%,0.25W	57668	NTR25J-E4K7
A22R221	315-0101-00			RES,FXD,FILM:100 OHM,5%,0.25W	57668	NTR25J-E 100E
A22R222	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25J-E1K0
A22R229	315-0104-00	B070000		RES,FXD,FILM:100K OHM,5%,0.25W	57668	NTR25J-E100K

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A229241	315-0101-00			RES,FXD,FILM:100 OHM,5%,0.25W	57668	NTR25J-E 100E
A229301	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE1K0
A229310	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE1K0
A229311	315-0511-00			RES,FXD,FILM:510 OHM,5%,0.25W	19701	5043CX510R0J
A229312	315-0302-00			RES,FXD,FILM:3K OHM,5%,0.25W	57668	NTR25J-E03K0
A229313	315-0155-00	B010100	B100856	RES,FXD,FILM:1.5M OHM,5%,0.25W	19701	5043CX1M500J
A229313	315-0245-00	B100857		RES,FXD,FILM:2.4M OHM,5%,0.25W	01121	CB2455
A229401	315-0151-00			RES,FXD,FILM:150 OHM,5%,0.25W	57668	NTR25J-E150E
A229402	315-0151-00			RES,FXD,FILM:150 OHM,5%,0.25W	57668	NTR25J-E150E
A229403	315-0151-00			RES,FXD,FILM:150 OHM,5%,0.25W	57668	NTR25J-E150E
A229404	315-0151-00			RES,FXD,FILM:150 OHM,5%,0.25W	57668	NTR25J-E150E
A229501	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE1K0
A229503	315-0473-00			RES,FXD,FILM:47K OHM,5%,0.25W	57668	NTR25J-E47K0
A229510	311-1918-00	B070000		RES,VAR,NONWW:TRMR,2K OHM,10%,0.5 W	32997	3386C-T07-202
A229511	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE1K0
A229512	321-0159-00			RES,FXD,FILM:442 OHM,1%,0.125W,TC=TO	07716	CEB0442F0F
A229531	315-0303-00			RES,FXD,FILM:30K OHM,5%,0.25W	19701	5043CX30K00J
A229532	315-0303-00			RES,FXD,FILM:30K OHM,5%,0.25W	19701	5043CX30K00J
A229600	315-0103-00			RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10K00J
A229601	315-0433-00			RES,FXD,FILM:43K OHM,5%,0.25W	19701	5043CX43K00J
A229602	315-0620-00			RES,FXD,FILM:62 OHM,5%,0.25W	19701	5043CX62R00J
A229608	311-1918-00	B010100	B068999	RES,VAR,NONWW:TRMR,2K OHM,10%,0.5 W	32997	3386C-T07-202
A229610	321-0268-00			RES,FXD,FILM:6.04K OHM,1%,0.125W,TC=T0	19701	5043EX6041F
A229611	315-0752-00			RES,FXD,FILM:7.5K OHM,5%,0.25W	57668	NTR25J-E07K5
A229612	321-0277-00			RES,FXD,FILM:7.50K OHM,0.25%,0.125W,T=T2	01121	ORDER BY DESCR
A229613	321-0269-00			RES,FXD,FILM:6.04K OHM,T2,0.125W,TC=T0	19701	5043EX6041F
A229614	321-0289-00			RES,FXD,FILM:10.0K OHM,T2,0.125W,TC=T0	19701	5043EX10001F
A229621	321-0251-00			RES,FXD,FILM:4.02K OHM,T2,0.125W,TC=T0	19701	5043EX4021F
A229622	315-0513-00			RES,FXD,FILM:51K OHM,5%,0.25W	57668	NTR25J-E51K0
A229631	321-0333-00			RES,FXD,FILM:28.7K OHM,1%,0.125W,TC=T0	19701	5043EX2873F
A229632	323-0525-00			RES,FXD,FILM:2.87 MEG OHM,1%,0.5W,TC=T0	19701	5053402M87F
A229633	315-0134-00			RES,FXD,FILM:130K OHM,5%,0.25W	57668	NTR25J-E130K
A229634	315-0473-00			RES,FXD,FILM:47K OHM,5%,0.25W	57668	NTR25J-E47K0
A229635	315-0201-00			RES,FXD,FILM:200 OHM,5%,0.25W	57668	NTR25J-E200E
A229641	315-0512-00			RES,FXD,FILM:5.1K OHM,5%,0.25W	57668	NTR25J-E05K1
A229642	315-0512-00			RES,FXD,FILM:5.1K OHM,5%,0.25W	57668	NTR25J-E05K1
A229701	321-0269-38			RES,FXD,FILM:6.04K OHM,T2,0.125W,TC=T0	19701	5043EX6041F
A229702	321-0289-00			RES,FXD,FILM:10.0K OHM,T2,0.125W,TC=T0	19701	5043EX10001F
A229703	315-0150-00			RES,FXD,FILM:15 OHM,5%,0.25W	19701	5043CX15R00J
A229704	315-0433-00			RES,FXD,FILM:43K OHM,5%,0.25W	19701	5043CX43K00J
A229711	315-0103-00			RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10K00J
A229712	315-0103-00			RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10K00J
A229713	315-0512-00			RES,FXD,FILM:5.1K OHM,5%,0.25W	57668	NTR25J-E05K1
A229714	315-0512-00			RES,FXD,FILM:5.1K OHM,5%,0.25W	57668	NTR25J-E05K1
A229715	315-0103-00			RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10K00J
A229716	315-0103-00			RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10K00J
A229717	315-0512-00			RES,FXD,FILM:5.1K OHM,5%,0.25W	57668	NTR25J-E05K1
A229718	315-0512-00			RES,FXD,FILM:5.1K OHM,5%,0.25W	57668	NTR25J-E05K1
A229721	315-0752-00			RES,FXD,FILM:7.5K OHM,5%,0.25W	57668	NTR25J-E07K5
A229722	321-0818-03			RES,FXD,FILM:5K OHM,0.25%,0.125W,TC=T2	19701	5033EX5000C
A229723	321-0818-03			RES,FXD,FILM:5K OHM,0.25%,0.125W,TC=T2	19701	5033EX5000C
A229724	315-0752-00			RES,FXD,FILM:7.5K OHM,5%,0.25W	57668	NTR25J-E07K5
A229731	321-0289-00			RES,FXD,FILM:10.0K OHM,T2,0.125W,TC=T0	19701	5033EX10001F
A229732	321-0269-00			RES,FXD,FILM:6.04K OHM,T2,0.125W,TC=T0	19701	5043EX6041F
A229734	315-0201-00			RES,FXD,FILM:200 OHM,5%,0.25W	57668	NTR25J-E200E
A229735	315-0433-00			RES,FXD,FILM:43K OHM,5%,0.25W	19701	5043CX43K00J
A229741	315-0752-00			RES,FXD,FILM:7.5K OHM,5%,0.25W	57668	NTR25J-E07K5
A229742	315-0512-00			RES,FXD,FILM:5.1K OHM,5%,0.25W	57668	NTR25J-E05K1
A229743	315-0752-00			RES,FXD,FILM:7.5K OHM,5%,0.25W	57668	NTR25J-E07K5

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A229784	315-0512-00			RES,FXD,FILM:5.1K OHM,5%,0.25W	57668	NTR25J-E05K1
A229785	315-0512-00			RES,FXD,FILM:5.1K OHM,5%,0.25W	57668	NTR25J-E05K1
A229786	315-0103-00			RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10K00J
A229787	315-0103-00			RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10K00J
A229801	321-0275-03			RES,FXD,FILM:7.15K OHM,1%,0.125W,TC=T0	07716	CEA0715001F
A229802	321-0277-03			RES,FXD,FILM:7.50K OHM,0.25%,0.125W,T=T2	01121	ORDER BY DESCR
A229831	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
A229841	321-0275-03			RES,FXD,FILM:7.15K OHM,1%,0.125W,TC=T0	07716	CEA0715001F
A229842	321-0277-03			RES,FXD,FILM:7.50K OHM,0.25%,0.125W,T=T2	01121	ORDER BY DESCR
A229843	315-0101-00			RES,FXD,FILM:100 OHM,5%,0.25W	57668	NTR25J-E 100E
A229844	315-0151-00			RES,FXD,FILM:150 OHM,5%,0.25W	57668	NTR25J-E150E
A229845	315-0182-00			RES,FXD,FILM:1.8K OHM,5%,0.25W	57668	NTR25J-E1K8
A229846	315-0122-00			RES,FXD,FILM:1.2K OHM,5%,0.25W	57668	NTR25J-E01K2
A2291001	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
A2291002	315-0512-00			RES,FXD,FILM:5.1K OHM,5%,0.25W	57668	NTR25J-E05K1
A2291003	315-0512-00			RES,FXD,FILM:5.1K OHM,5%,0.25W	57668	NTR25J-E05K1
A2291021	321-0275-00			RES,FXD,FILM:7.15K OHM,1%,0.125W,TC=T0	07716	CEA0715001
A2291022	321-0277-03			RES,FXD,FILM:7.50K OHM,0.25%,0.125W,T=T2	01121	ORDER BY DESCR
A2291031	315-0512-00			RES,FXD,FILM:5.1K OHM,5%,0.25W	57668	NTR25J-E05K1
A2291032	315-0512-00			RES,FXD,FILM:5.1K OHM,5%,0.25W	57668	NTR25J-E05K1
A2291034	315-0512-00			RES,FXD,FILM:5.1K OHM,5%,0.25W	57668	NTR25J-E05K1
A2291104	321-0268-00			RES,FXD,FILM:3.74K OHM,1%,0.125W,TC=T0	19701	5043EEDK7403
A2291105	321-0332-00			RES,FXD,FILM:2.5K OHM,1%,0.125W,TC=T0	24546	MB5502501F
A22U10	156-0339-02			MICROCKT,DGTL:16 X 4 SSRM,SCRN	27014	DM85S99N+
A22U20	156-0382-02			MICROCKT,DGTL:QUAD 2 INP NAND GATE BURN	18324	N74LS00N8
A22U30	156-0382-02			MICROCKT,DGTL:QUAD 2 INP NAND GATE BURN	18324	N74LS00N8
A22U52	156-0405-03			MICROCKT,DGTL:DUAL RETRIG MONOSTABLE MV	18324	N9602(NB OR FB)
A22U60	156-0405-03			MICROCKT,DGTL:DUAL RETRIG MONOSTABLE MV	18324	N9602(NB OR FB)
A22U100	156-0339-02			MICROCKT,DGTL:16 X 4 SRAM,SCRN	27014	DM85S99N+
A22U106	156-0412-02	B070300		MICROCKT,DGTL:SYN 4 BIT UP/DOWN CNTR	27014	DM74LS193N+
A22U110	156-0339-02			MICROCKT,DGTL:16 X 4 SRAM,SCRN	27014	DM85S99N+
A22U120	156-1188-00	B010100	B010245	MICROCKT,DGTL:8192-BIT ROM,HORIZ SCRN	04713	MCM6571Q
A22U120	156-1208-00	B010250		MICROCKT,DGTL:MOS,CHARACTER GENERATOR	04713	MCM6571AL
A22U130	156-0383-02			MICROCKT,DGTL:QUAD 2-INP NOR GATE	18324	N74LS02N8
A22U140	156-0470-02			MICROCKT,DGTL:8-INP DATA SEL W/3-STATE OUT, SCRN	01295	SN74LS251 NP)
A22U150	156-0412-02			MICROCKT,DGTL:SYN 4 BIT UP/DOWN CNTR	27014	DM74LS193N+
A22U200	156-0412-02			MICROCKT,DGTL:SYN 4 BIT UP/DOWN CNTR	27014	DM74LS193N+
A22U210	156-0412-02			MICROCKT,DGTL:SYN 4 BIT UP/DOWN CNTR	27014	DM74LS193N+
A22U220	156-0412-02			MICROCKT,DGTL:SYN 4 BIT UP/DOWN CNTR	27014	DM74LS193N+
A22U232	156-0412-02			MICROCKT,DGTL:SYN 4 BIT UP/DOWN CNTR	27014	DM74LS193N+
A22U242	160-0111-02			MICROCKT,DGTL:256 BIT PROM W/3 STATE OUT	80009	160-0111-02
A22U302	156-0541-02			MICROCKT,DGTL:DUAL 2-TO 4-LINE DCDR/DEMUX	04713	SN74LS139N05
A22U310	156-0382-02			MICROCKT,DGTL:QUAD 2 INP NAND GATE BURN	18324	N74LS00N8
A22U320	156-0388-00			MICROCKT,DGTL:DUAL D FLIP-FLOP	01295	SN74LS74AN3
A22U330	156-0382-02			MICROCKT,DGTL:QUAD 2 INP NAND GATE BURN	18324	N74LS00N8
A22U340	156-0479-02			MICROCKT,DGTL:QUAD 2-INP OR GATE	01295	SN74LS32N3
A22U400	156-0145-02			MICROCKT,DGTL:QUAD 2-INP NAND BFR	18324	N7438(NB OR FB)
A22U410	156-0728-02			MICROCKT,DGTL:HEX DRVR,4-TO-2 LINE ENABLE	01295	SN74LS368N3
A22U420	156-0385-02			MICROCKT,DGTL:HEX INVERTER	07263	74LS04PCQR
A22U430	156-0385-02			MICROCKT,DGTL:HEX INVERTER	07263	74LS04PCQR
A22U440	156-0385-02			MICROCKT,DGTL:HEX INVERTER	07263	74LS04PCQR
A22U500	156-0383-02			MICROCKT,DGTL:QUAD 2-INP NOR GATE	18324	N74LS02N8
A22U510	156-0351-02			MICROCKT,DGTL:HEX LATCH W/CLEAR	01295	SN74LS174N3
A22U520	156-0405-03			MICROCKT,DGTL:DUAL RETRIG MONOSTABLE MV	18324	N9602(NB OR FB)
A22U530	156-0469-02			MICROCKT,DGTL:3/8 LINE DCDR	01295	SN74LS138N3
A22U540	156-0469-02			MICROCKT,DGTL:3/8 LINE DCDR	01295	SN74LS138N3
A22U600	156-0405-03			MICROCKT,DGTL:DUAL RETRIG MONOSTABLE MV	18324	N9602(NB OR FB)
A22U610	156-0509-00			MICROCKT,DGTL:8-BIT BINARY,MULT CUR	04713	MC1408L8

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A22U820	156-0821-01			MICROCKT,LINEAR:OPERATIONAL AMPLIFIER,SEL	80009	156-0821-01
A22U822	156-0402-00	B010100	B100304	MICROCKT,LINEAR:TIMER	27014	LM555N
A22U822	156-0402-02	B100305		MICROCKT,LINEAR:TIMER,CHECKED	27014	LM555CN/B+
A22U840	156-0393-02			MICROCKT,DGTL:QUAD 2-INP NOR GATE	18324	N74LS32AB
A22U700	156-0411-01	B010100	B100304	MICROCKT,LINEAR:SGL SPLY COMPARATOR,CHK	04713	LM339N2
A22U700	156-0411-02	B100305		MICROCKT,LINEAR:QUAD COMPARATOR,SCREENED	04713	LM339J/DS
A22U710	156-0725-02			MICROCKT,DGTL:HEX DRVR,4-TO-2 LINE ENABLE	01295	SN74LS368BNP3
A22U720	156-0367-00			MICROCKT,LINEAR:OPNL AMPL,SEL	04713	MC1741CP1
A22U722	156-0367-00			MICROCKT,LINEAR:OPNL AMPL,SEL	04713	MC1741CP1
A22U730	156-0411-01	B010100	B100604	MICROCKT,LINEAR:SGL SPLY COMPARATOR,CHK	04713	LM339N2S
A22U730	156-0411-02	B100605		MICROCKT,LINEAR:QUAD COMPARATOR,SCREENED	04713	LM339J/DS
A22U740	156-0725-02			MICROCKT,DGTL:HEX DRVR,4-TO-2 LINE ENABLE	01295	SN74LS368BNP3
A22U800	156-0392-01	B010100	B100904	MICROCKT,DGTL:TTL,QUAD LATCH W/CLR	34335	AM25LS175PCB
A22U800	156-0392-03	B100905		MICROCKT,DGTL:QUAD LATCH W/CLEAR	07263	74LS175PC3R
A22U810	156-0927-03	B010100	B100904	MICROCKT,LINEAR:DGTL TO ANLG CONV	18324	MC3410(CF OR F)
A22U810	156-0927-02	B100905		MICROCKT,LINEAR:DIGITAL/ANALOG CONVERTER	80009	156-0927-02
A22U820	156-0392-01	B010100	B100904	MICROCKT,DGTL:TTL,QUAD LATCH W/CLR	34335	AM25LS175PCB
A22U820	156-0392-03	B100905		MICROCKT,DGTL:QUAD LATCH W/CLEAR	07263	74LS175PC3R
A22U830	156-0391-02			MICROCKT,DGTL:HEX LATCH W/CLEAR	01295	SN74LS174NP3
A22U840	156-0929-00			MICROCKT,DGTL:8-BIT BINARY,MULT CUR	04713	MC1408L8
A22U900	156-0392-01	B010100	B100904	MICROCKT,DGTL:TTL,QUAD LATCH W/CLR	34335	AM25LS175PCB
A22U900	156-0392-03	B100905		MICROCKT,DGTL:QUAD LATCH W/CLEAR	07263	74LS175PC3R
A22U910	156-0392-01	B010100	B100904	MICROCKT,DGTL:TTL,QUAD LATCH W/CLR	34335	AM25LS175PCB
A22U910	156-0392-03	B100905		MICROCKT,DGTL:QUAD LATCH W/CLEAR	07263	74LS175PC3R
A22U920	156-0392-01	B010100	B100904	MICROCKT,DGTL:TTL,QUAD LATCH W/CLR	34335	AM25LS175PCB
A22U920	156-0392-03	B100905		MICROCKT,DGTL:QUAD LATCH W/CLEAR	07263	74LS175PC3R
A22U930	156-0929-00			MICROCKT,DGTL:8-BIT BINARY,MULT CUR	04713	MC1408L8
A22U940	156-0391-02			MICROCKT,DGTL:HEX LATCH W/CLEAR	01295	SN74LS174NP3
A22U1010	156-0388-03			MICROCKT,DGTL:DUAL D FLIP-FLOP	01295	SN74LS74ANP3
A22U1020	156-0391-02			MICROCKT,DGTL:QUAD 2-INP EXCL OR GATE	07263	74LS86PC3R
A22U1040	156-0385-02			MICROCKT,DGTL:HEX INVERTER	07263	74LS04PC3R
A22U1100	156-0367-00			MICROCKT,LINEAR:OPNL AMPL,SEL	04713	MC1741CP1
A22U1110	156-0725-02			MICROCKT,DGTL:HEX DRVR,4-TO-2 LINE ENABLE	01295	SN74LS368BNP3
A22U1120	156-0466-02			MICROCKT,DGTL:DUAL 4-INP NAND GATE	01295	SN74LS20NP3
A22U1130	156-0567-02			MICROCKT,DGTL:DUAL J-K MSTR EDGE TRIG FF	27014	DM74LS113AN+
A22U1140	156-0392-01	B010100	B100904	MICROCKT,DGTL:TTL,QUAD LATCH W/CLR	34335	AM25LS175PCB
A22U1140	156-0392-03	B100905		MICROCKT,DGTL:QUAD LATCH W/CLEAR	07263	74LS175PC3R
A22V821	152-0508-00			SEMICOND DVC,DI:ZEN,SI,12.8V,5%,0.4W,DO-7	04713	SZ13294RL
A24	670-5145-00			CIRCUIT BD ASSY:OSCILLOSCOPE GENERATOR	80009	670-5145-00
A24C20	283-0594-00			CAP,FXD,MICA DI:0.001UF,1%,100V	00853	D151F102FD
A24C150	281-0532-00			CAP,FXD,CER DI:39PF,5%,500V	52763	2PDPL2D3F 390PM0
A24C250	281-0535-00			CAP,FXD,CER DI:1000PF,10%,500V	52763	2PDPL2D3F 1N00M0
A24C260	283-0655-00			CAP,FXD,MICA DI:3300PF,1%,500V	00853	D19F332FD
A24C262	283-0188-00			CAP,FXD,CER DI:0.22UF,20%,50V	05397	C330C224M5U1CA
A24C270	283-0187-00			CAP,FXD,CER DI:0.047UF,10%,400V	04222	SR30BC473KAA
A24C272	290-0722-00			CAP,FXD,ELCTLT:100 UF,20%,10V	56289	196D107X0010HF3
A24C274	290-0722-00			CAP,FXD,ELCTLT:100 UF,20%,10V	56289	196D107X0010HF3
A24C310	283-0004-00			CAP,FXD,CER DI:0.02UF,+80-20%,150V	59660	855-S5B25W02032
A24C320	283-0004-00			CAP,FXD,CER DI:0.02UF,+80-20%,150V	59660	855-S5B25W02032
A24C330	283-0004-00			CAP,FXD,CER DI:0.02UF,+80-20%,150V	59660	855-S5B25W02032
A24C332	281-0536-00			CAP,FXD,CER DI:1000PF,10%,500V	52763	2PDPL2D3F 1N00M0
A24C340	283-0004-00			CAP,FXD,CER DI:0.02UF,+80-20%,150V	59660	855-S5B25W02032
A24C350	283-0004-00			CAP,FXD,CER DI:0.02UF,+80-20%,150V	59660	855-S5B25W02032
A24C370	283-0003-00			CAP,FXD,CER DI:0.01UF,+80-20%,150V	59821	D10342E25AU0CE3
A24C420	281-0536-00			CAP,FXD,CER DI:1000PF,10%,500V	52763	2PDPL2D3F 1N00M0
A24C510	285-0808-00			CAP,FXD,PLASTIC:0.1UF,10%,50V	04099	EK11-16
A24C514	290-0522-00			CAP,FXD,ELCTLT:1UF,20%,50V	05397	T350A105M050AS

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A24C522	290-0522-00			CAP,FXD,ELCTLT:1UF,20%,50V	05397	T368A105M050AZ
A24C550	283-0003-00			CAP,FXD,CER DI:0.01UF,+80-20%,150V	53821	8103A025U10CB
A24C552	283-0003-00			CAP,FXD,CER DI:0.01UF,+80-20%,150V	53821	8103A025U10CB
A24C554	283-0178-00			CAP,FXD,CER DI:0.1UF,+80-20%,100V	05397	C330C104Z1U1CA
A24C560	283-0178-00			CAP,FXD,CER DI:0.1UF,+80-20%,100V	05397	C330C104Z1U1CA
A24C570	283-0111-00			CAP,FXD,CER DI:0.1UF,20%,50V	05397	C330C104M5U1CA
A24C610	283-0617-00			CAP,FXD,MICA DI:4700PF,1%,300V	00853	D195F472D0
A24C612	281-0509-00			CAP,FXD,CER DI:15PF,+/-1.5PF,500V	59660	301-000C0G0-150K
A24C640	283-0177-00			CAP,FXD,CER DI:1UF,+80-20%,25V	04222	SR302E105ZAATR
A24C662	283-0111-00			CAP,FXD,CER DI:0.1UF,20%,50V	05397	C330C104M5U1CA
A24C670	283-0111-00			CAP,FXD,CER DI:0.1UF,20%,50V	05397	C330C104M5U1CA
A24C710	290-0522-00			CAP,FXD,ELCTLT:1UF,20%,50V	05397	T368A105M050AZ
A24C712	283-0178-00			CAP,FXD,CER DI:0.1UF,+80-20%,100V	05397	C330C104Z1U1CA
A24C740	290-0535-00			CAP,FXD,ELCTLT:10UF,20%,25V TANTALUM	05397	T368B106M025AS
A24C820	290-0522-00			CAP,FXD,ELCTLT:1UF,20%,50V	05397	T368A105M050AZ
A24C830	281-0519-00			CAP,FXD,CER DI:47PF,+/-4.7PF,500V	52763	290PL2D07 47P0KC
A24C832	283-0093-00			CAP,FXD,MICA DI:0.01UF,1%,100V	00853	D301F103FD
A24C880	290-0522-00			CAP,FXD,ELCTLT:1UF,20%,50V	05397	T368A105M050AZ
A24CR360	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	DA2527 (1N4152)
A24CR370	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	DA2527 (1N4152)
A24CR450	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	DA2527 (1N4152)
A24CR540	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	DA2527 (1N4152)
A24CR550	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	DA2527 (1N4152)
A24CR552	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	DA2527 (1N4152)
A24CR554	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	DA2527 (1N4152)
A24CR556	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	DA2527 (1N4152)
A24CR570	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	DA2527 (1N4152)
A24CR572	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	DA2527 (1N4152)
A24CR620	152-0246-00			SEMICOND DVC,DI:SW,SI,40V,200MA,00-7	14433	MG1537TX
A24CR630	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	DA2527 (1N4152)
A24CR710	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	DA2527 (1N4152)
A24CR720	152-0246-00			SEMICOND DVC,DI:SW,SI,40V,200MA,00-7	14433	MG1537TX
A24CR722	152-0246-00			SEMICOND DVC,DI:SW,SI,40V,200MA,00-7	14433	MG1537TX
A24CR730	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	DA2527 (1N4152)
A24CR770	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	DA2527 (1N4152)
A24CR772	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	DA2527 (1N4152)
A24CR774	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	DA2527 (1N4152)
A24CR776	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	DA2527 (1N4152)
A24CR820	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	DA2527 (1N4152)
A24CR870	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	DA2527 (1N4152)
A24L370	108-0245-00			CHOKE,RF:FIXED,3.9UH	76493	B6310-1
A24Q370	151-0225-00			TRANSISTOR:NPN,SI,TO-106	04713	SPS7890
A24Q372	151-0225-00			TRANSISTOR:NPN,SI,TO-106	04713	SPS7890
A24Q460	151-0188-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0188-00
A24Q470	151-0190-00			TRANSISTOR:NPN,SI,TO-92	80009	151-0190-00
A24Q520	151-0190-00			TRANSISTOR:NPN,SI,TO-92	80009	151-0190-00
A24Q522	151-0220-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0220-00
A24Q530	151-0220-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0220-00
A24Q532	151-0221-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0221-00
A24Q534	151-0190-00			TRANSISTOR:NPN,SI,TO-92	80009	151-0190-00
A24Q610	151-0232-00			TRANSISTOR:NPN,SI,TO-78	07263	SP12181
A24Q620	151-0232-00			TRANSISTOR:NPN,SI,TO-78	07263	SP12181
A24Q630	151-0190-00			TRANSISTOR:NPN,SI,TO-92	80009	151-0190-00
A24Q632	151-0190-00			TRANSISTOR:NPN,SI,TO-92	80009	151-0190-00
A24Q640	151-0232-00			TRANSISTOR:NPN,SI,TO-78	07263	SP12181
A24Q670	151-0220-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0220-00
A24Q672	151-0220-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0220-00
A24Q712	151-0221-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0221-00
A24Q720	151-1041-00			TRANSISTOR:FET,N-CHAN,SI,TO-71	04713	SF21041

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0248730	151-0190-00			TRANSISTOR:NPN,SI,TO-92	80009	151-0190-00
0248740	151-0232-00			TRANSISTOR:NPN,SI,TO-72	07263	SPS2181
0248772	151-0220-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0220-00
0248830	151-0190-00			TRANSISTOR:NPN,SI,TO-92	80009	151-0190-00
0248870	151-0220-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0220-00
0248872	151-0190-00			TRANSISTOR:NPN,SI,TO-92	80009	151-0190-00
0248R30	321-0280-00			RES,FXD,FILM:8.06K OHM,1%,0.125W,TC=T0	19701	5033ED8K06F
0248R50	311-1189-00			RES,VAR,NONWW:TRMR,20K OHM,0.5W	32997	3386X-T07-203
0248R52	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25J-E1K0
0248R120	315-0182-00			RES,FXD,FILM:1.8K OHM,5%,0.25W	57668	NTR25J-E1K8
0248R132	315-0182-00			RES,FXD,FILM:1.8K OHM,5%,0.25W	57668	NTR25J-E1K8
0248R172	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25J-E1K0
0249172	315-0512-00			RES,FXD,FILM:5.1K OHM,5%,0.25W	57668	NTR25J-E05K1
0249210	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25J-E1K0
0249230	315-0101-00			RES,FXD,FILM:100 OHM,5%,0.25W	57668	NTR25J-E 100E
0249240	315-0182-00			RES,FXD,FILM:1.8K OHM,5%,0.25W	57668	NTR25J-E1K8
0249250	315-0182-00			RES,FXD,FILM:1.8K OHM,5%,0.25W	57668	NTR25J-E1K8
0249252	315-0182-00			RES,FXD,FILM:1.8K OHM,5%,0.25W	57668	NTR25J-E1K8
0249270	315-0512-00			RES,FXD,FILM:5.1K OHM,5%,0.25W	57668	NTR25J-E05K1
0249272	315-0682-00			RES,FXD,FILM:6.8K OHM,5%,0.25W	57668	NTR25J-E06K8
0249350	315-0101-00			RES,FXD,FILM:100 OHM,5%,0.25W	57668	NTR25J-E 100E
0249360	315-0332-00			RES,FXD,FILM:3.3K OHM,5%,0.25W	57668	NTR25J-E03K3
0249362	315-0752-00			RES,FXD,FILM:7.5K OHM,5%,0.25W	57668	NTR25J-E07K5
0249370	315-0132-00			RES,FXD,FILM:1.3K OHM,5%,0.25W	57668	NTR25J-E01K3
0249372	315-0332-00			RES,FXD,FILM:3.3K OHM,5%,0.25W	57668	NTR25J-E03K3
0249374	315-0562-00			RES,FXD,FILM:5.6K OHM,5%,0.25W	57668	NTR25J-E05K6
0249376	315-0362-00			RES,FXD,FILM:3.6K OHM,5%,0.25W	19701	5043CX3K600J
0249420	315-0101-00			RES,FXD,FILM:100 OHM,5%,0.25W	57668	NTR25J-E 100E
0249430	315-0332-00			RES,FXD,FILM:3.3K OHM,5%,0.25W	57668	NTR25J-E03K3
0249460	315-0362-00			RES,FXD,FILM:3.6K OHM,5%,0.25W	19701	5043CX3K600J
0249462	315-0132-00			RES,FXD,FILM:1.3K OHM,5%,0.25W	57668	NTR25J-E01K3
0249470	315-0184-00			RES,FXD,FILM:180K OHM,5%,0.25W	19701	5043CX180KDJ
0249472	315-0133-00			RES,FXD,FILM:13K OHM,5%,0.25W	19701	5043CX13K00J
0249474	315-0183-00			RES,FXD,FILM:18K OHM,5%,0.25W	19701	5043CX18K00J
0249510	315-0912-00			RES,FXD,FILM:9.1K OHM,5%,0.25W	57668	NTR25J-E09K1
0249512	315-0272-00			RES,FXD,FILM:2.7K OHM,5%,0.25W	57668	NTR25J-E02K7
0249514	315-0101-00			RES,FXD,FILM:100 OHM,5%,0.25W	57668	NTR25J-E 100E
0249516	321-0242-00			RES,FXD,FILM:2.24K OHM,1%,0.125W,TC=T2	19701	5033CE2K24F
0249518	321-0255-00			RES,FXD,FILM:4.42K OHM,1%,0.125W,TC=T2	01121	ORDER BY DESCR
0249520	315-0332-00			RES,FXD,FILM:3.3K OHM,5%,0.25W	57668	NTR25J-E03K3
0249522	315-0472-00			RES,FXD,FILM:4.7K OHM,5%,0.25W	57668	NTR25J-E04K7
0249524	315-0562-00			RES,FXD,FILM:5.6K OHM,5%,0.25W	57668	NTR25J-E05K6
0249526	315-0302-00			RES,FXD,FILM:3K OHM,5%,0.25W	57668	NTR25J-E03K0
0249528	315-0101-00			RES,FXD,FILM:100 OHM,5%,0.25W	57668	NTR25J-E 100E
0249529	315-0222-00			RES,FXD,FILM:2.2K OHM,5%,0.25W	57668	NTR25J-E02K2
0249530	315-0562-00			RES,FXD,FILM:5.6K OHM,5%,0.25W	57668	NTR25J-E05K6
0249532	323-0283-00			RES,FXD,FILM:6.19K OHM,1%,0.5W,TC=T0	19701	5053RE6K190F
0249534	315-0132-00			RES,FXD,FILM:1.3K OHM,5%,0.25W	57668	NTR25J-E01K3
0249540	311-1239-00			RES,VAR,NONWW:TRMR,2.5K OHM,0.5W	32997	3386X-T07-252
0249542	315-0182-00			RES,FXD,FILM:1.8K OHM,5%,0.25W	19701	5043CX1K800J
0249544	321-0425-00			RES,FXD,FILM:261K OHM,1%,0.125W,TC=T0	07716	CEM0261F
0249546	321-0329-00			RES,FXD,FILM:25.5K OHM,1%,0.125W,TC=T0	19701	5043ED25K50F
0249550	321-0422-00			RES,FXD,FILM:243K OHM,1%,0.125W,TC=T0	07716	CEM0243F
0249552	321-0244-00			RES,FXD,FILM:3.40K OHM,1%,0.125W,TC=T0	19701	5043ED3K40F
0249554	315-0100-00			RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX10R00J
0249556	321-0212-00			RES,FXD,FILM:1.58K OHM,1%,0.125W,TC=T0	19701	5033ED1K58F
0249560	315-0682-00			RES,FXD,FILM:6.8K OHM,5%,0.25W	19701	5043CX6K80J
0249567	315-0100-00			RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX10R00J
0249572	315-0332-00			RES,FXD,FILM:3.3K OHM,5%,0.25W	57668	NTR25J-E03K3

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Discont	Name & Description	Mfr. Code	Mfr. Part No.
A2A9574	315-0622-00			RES,FXD,FILM:6.2K OHM,5%,0.25W	19701	5043CB6K200J
A2A9579	315-0752-00			RES,FXD,FILM:7.5K OHM,5%,0.25W	57668	NTR25J-E07K5
A2A9610	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
A2A9612	321-0338-00			RES,FXD,FILM:32.4K OHM,1%,0.125W,TC=T2	07716	CEBC32401F
A2A9614	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
A2A9615	321-0202-00			RES,FXD,FILM:1.24K OHM,1%,0.125W,TC=T0	24546	NA55D1241F
A2A9618	321-0267-00			RES,FXD,FILM:5.90K OHM,1%,0.125,,TC=T0	19701	5033ED5K900F
A2A9620	321-0095-00			RES,FXD,FILM:48.7K OHM,1%,0.125W,TC=T2	01121	ORDER BY DESCR
A2A9622	321-0253-00			RES,FXD,FILM:4.22K OHM,1%,0.125W,TC=T2	01121	ORDER BY DESCR
A2A9624	321-1607-00			RES,FXD,FILM:1.86K OHM,0.1%,0.125W,TC=T2	01121	ORDER BY DESCR
A2A9626	321-0283-00			RES,FXD,FILM:8.66K OHM,1%,0.125W,TC=T2	01121	ORDER BY DESCR
A2A9630	321-0259-00			RES,FXD,FILM:3.92K OHM,1%,0.125W,TC=T0	07716	CEB03922QF
A2A9632	321-0279-00			RES,FXD,FILM:6.34K OHM,1%,0.125W,TC=T0	19701	5043ED6K340F
A2A9634	315-0332-00			RES,FXD,FILM:3.3K OHM,5%,0.25W	57668	NTR25J-E03K3
A2A9636	315-0562-00			RES,FXD,FILM:5.6K OHM,5%,0.25W	57668	NTR25J-E05K6
A2A9638	315-0273-00			RES,FXD,FILM:27K OHM,5%,0.25W	57668	NTR25J-E27K0
A2A9640	315-0382-00			RES,FXD,FILM:3.8K OHM,5%,0.25W	19701	5043CB3K800J
A2A9642	321-0311-00			RES,FXD,FILM:16.5K OHM,1%,0.125W,TC=T0	07716	CEBC16501F
A2A9644	321-0284-00			RES,FXD,FILM:5.49K OHM,1%,0.125W,TC=T2	01121	ORDER BY DESCR
A2A9646	321-0258-00			RES,FXD,FILM:4.75K OHM,1%,0.125W,TC=T0	19701	5033EDAK750F
A2A9652	321-0247-00			RES,FXD,FILM:3.65K OHM,1%,0.125W,TC=T0	19701	5043ED3K650F
A2A9654	321-0247-00			RES,FXD,FILM:3.65K OHM,1%,0.125W,TC=T0	19701	5043ED3K650F
A2A9656	321-0164-00			RES,FXD,FILM:499 OHM,1%,0.125W,TC=T2	19701	5033EC499R0F
A2A9660	315-0132-00			RES,FXD,FILM:1.3K OHM,5%,0.25W	57668	NTR25J-E01K3
A2A9670	315-0362-00			RES,FXD,FILM:3.6K OHM,5%,0.25W	19701	5043CB3K600J
A2A9672	321-0277-00			RES,FXD,FILM:7.50K OHM,1%,0.125W,TC=T2	24546	NC55C7501F
A2A9674	321-0239-00			RES,FXD,FILM:3.01K OHM,1%,0.125W,TC=T0	19701	5043ED3K010F
A2A9676	315-0221-00			RES,FXD,FILM:220 OHM,5%,0.25W	57668	NTR25J-E220R
A2A9678	321-0239-00			RES,FXD,FILM:3.01K OHM,1%,0.125W,TC=T0	19701	5043ED3K010F
A2A9679	315-0221-00			RES,FXD,FILM:220 OHM,5%,0.25W	57668	NTR25J-E220R
A2A9710	315-0822-00			RES,FXD,FILM:8.2K OHM,5%,0.25W	19701	5043CB8K200J
A2A9712	315-0100-00			RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CB10R000J
A2A9714	315-0470-00			RES,FXD,FILM:47 OHM,5%,0.25W	57668	NTR25J-E47R0
A2A9716	315-0152-00			RES,FXD,FILM:1.5K OHM,5%,0.25W	57668	NTR25J-E01K5
A2A9720	321-0414-00			RES,FXD,FILM:200K OHM,1%,0.125W,TC=T9	01121	ORDER BY DESCR
A2A9722	315-0133-00			RES,FXD,FILM:13K OHM,5%,0.25W	19701	5043CX13000J
A2A9724	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
A2A9726	315-0242-00			RES,FXD,FILM:2.4K OHM,5%,0.25W	57668	NTR25J-E02K4
A2A9728	321-0327-00			RES,FXD,FILM:24.5K OHM,1%,0.125W,TC=T0	07716	CEB02493QF
A2A9730	315-0223-00			RES,FXD,FILM:22K OHM,5%,0.25W	19701	5043CB22K00J920
A2A9732	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
A2A9734	315-0103-00			RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CB10K00J
A2A9736	315-0911-00			RES,FXD,FILM:910 OHM,5%,0.25W	57668	NTR25J-E910E
A2A9738	315-0122-00			RES,FXD,FILM:1.2K OHM,5%,0.25W	57668	NTR25J-E01K2
A2A9739	315-0472-00			RES,FXD,FILM:4.7K OHM,5%,0.25W	57668	NTR25J-E04K7
A2A9740	321-0176-00			RES,FXD,FILM:665 OHM,1%,0.125W,TC=T0	07716	CEA0665F0F
A2A9742	321-0176-00			RES,FXD,FILM:665 OHM,1%,0.125W,TC=T0	07716	CEA0665F0F
A2A9744	315-0100-00			RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043 X10R900J
A2A9746	321-0176-00			RES,FXD,FILM:665 OHM,1%,0.125W,TC=T0	07716	CEA0665F0F
A2A9748	321-0176-00			RES,FXD,FILM:665 OHM,1%,0.125W,TC=T0	07716	CEA0665F0F
A2A9750	321-0164-00			RES,FXD,FILM:499 OHM,1%,0.125W,TC=T2	19701	5033EC499R0F
A2A9752	321-0197-00			RES,FXD,FILM:1.10K OHM,1%,0.125W,TC=T2	01121	ORDER BY DESCR
A2A9754	321-0289-00			RES,FXD,FILM:10.0K OHM,1%,0.125W,TC=T0	19701	5033ED10K0F
A2A9756	321-0260-00			RES,FXD,FILM:4.99K OHM,1%,0.125W,TC=T0	19701	5033ED4K990F
A2A9758	321-0129-00			RES,FXD,FILM:215 OHM,1%,0.125W,TC=T0	07716	CEA0215R0F
A2A9759	321-0247-00			RES,FXD,FILM:3.65K OHM,1%,0.125W,TC=T0	19701	5043ED3K650F
A2A9772	315-0911-00			RES,FXD,FILM:910 OHM,5%,0.25W	57668	NTR25J-E910E
A2A9820	315-0681-00			RES,FXD,FILM:680 OHM,5%,0.25W	57668	NTR25J-E680E
A2A9822	315-0100-00			RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX10R900J

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Descnt	Name & Description	Mfr. Code	Mfr. Part No.
A24R832	315-0103-00			RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10K00J
A24R832	315-0470-00			RES,FXD,FILM:47 OHM,5%,0.25W	57668	MTR25J-47R0
A24R834	315-0471-00			RES,FXD,FILM:470 OHM,5%,0.25W	57668	MTR25J-470E
A24R840	321-0248-08			RES,FXD,FILM:3.74K OHM,1%,0.125W,TC=T2	01121	ORDER BY DESCR
A24R842	321-0323-08			RES,FXD,FILM:22.6K OHM,1%,0.125W,TC=T2	07716	CEA2226J1F
A24R844	321-0289-08			RES,FXD,FILM:8.66K OHM,1%,0.125W,TC=T2	01121	ORDER BY DESCR
A24R850	311-1238-00			RES,VAR,NONWW:TRMR,250 OHM,0.5W	32997	3386X-T37-251
A24R851	321-0247-00			RES,FXD,FILM:3.65K OHM,1%,0.125W,TC=T0	19701	5043ED3K650F
A24R852	321-0184-08			RES,FXD,FILM:499 OHM,1%,0.125W,TC=T2	19701	5033EC4990F
A24R854	321-0184-08			RES,FXD,FILM:499 OHM,1%,0.125W,TC=T2	19701	5033EC4990F
A24R856	321-0197-08			RES,FXD,FILM:1.10K OHM,1%,0.125W,TC=T2	01121	ORDER BY DESCR
A24R858	321-0289-00			RES,FXD,FILM:10.0K OHM,1%,0.125W,TC=T0	19701	5033ED10K0F
A24R859	321-0260-00			RES,FXD,FILM:6.98K OHM,1%,0.125W,TC=T0	19701	5033ED6K980F
A24R870	315-0221-00			RES,FXD,FILM:220 OHM,5%,0.25W	57668	MTR25J-220E
A24R872	321-0239-00			RES,FXD,FILM:3.01K OHM,1%,0.125W,TC=T0	19701	5043ED3001F
A24R874	315-0221-00			RES,FXD,FILM:220 OHM,5%,0.25W	57668	MTR25J-220E
A24R876	321-0239-00			RES,FXD,FILM:3.01K OHM,1%,0.125W,TC=T0	19701	5043ED3001F
A24R878	321-0129-00			RES,FXD,FILM:215 OHM,1%,0.125W,TC=T0	07716	CEA215F
A24R950	311-1237-00			RES,VAR,NONWW:TC OHM,10%,0.5W	32997	3386X-T75-102
A24R952	311-1235-00			RES,VAR,NONWW:TRMR,250 OHM,0.5W	32997	3386X-T37-251
A24R954	311-1237-00			RES,VAR,NONWW:1K OHM,10%,0.5W	32997	3386X-T75-102
A24U60	156-0503-02			MICROCKT,DGTL:QUAD 2-INP MUX	01295	SN74LS157NP3
A24U70	156-0388-02			MICROCKT,DGTL:TRIPLE 3-INP NAND GATE	07263	74LS10PCDR
A24U80	156-0382-02			MICROCKT,DGTL:QUAD 2 INP NAND GATE BURN	18324	N74LS00AB
A24U110	156-0072-02			MICROCKT,DGTL:MONOSTABLE MV,SCRN	18324	N74121(NB OR FB)
A24U120	156-0202-02			MICROCKT,DGTL:PRGM MOD-N HEXIDECIMAL CNTR,SCREENED	04713	MC4018MDS
A24U130	156-0202-02			MICROCKT,DGTL:PRGM MOD-N HEXIDECIMAL CNTR,SCREENED	04713	MC4018MDS
A24U140	156-0202-02			MICROCKT,DGTL:PRGM MOD-N HEXIDECIMAL CNTR,SCREENED	04713	MC4018MDS
A24U150	156-0072-02			MICROCKT,DGTL:MONOSTABLE MV,SCRN	18324	N74121(NB OR FB)
A24U170	156-0405-03			MICROCKT,DGTL:DUAL RETRIG MONOSTABLE MV	18324	N85S2(NB OR FB)
A24U210	156-0387-02			MICROCKT,DGTL:DUAL J-K FF,SCRN	04713	SN74LS73AN3
A24U220	156-0202-02			MICROCKT,DGTL:PRGM MOD-N HEXIDECIMAL CNTR,SCREENED	04713	MC4018MDS
A24U230	156-0382-02			MICROCKT,DGTL:QUAD 2 INP NAND GATE BURN	18324	N74LS00AB
A24U240	156-0202-02			MICROCKT,DGTL:PRGM MOD-N HEXIDECIMAL CNTR,SCREENED	04713	MC4018MDS
A24U250	156-0072-02			MICROCKT,DGTL:MONOSTABLE MV,SCRN	18324	N74121(NB OR FB)
A24U310	156-0388-03			MICROCKT,DGTL:DUAL D FLIP-FLOP	01295	SN74LS74AMP3
A24U320	156-0382-02			MICROCKT,DGTL:QUAD 2 INP NAND GATE BURN	18324	N74LS00AB
A24U330	156-0388-03			MICROCKT,DGTL:DUAL D FLIP-FLOP	01295	SN74LS74AMP3
A24U340	156-0832-03			MICROCKT,DGTL:4 BIT BINARY COUNTER	01295	SN7493NP3
A24U350	156-0382-02			MICROCKT,DGTL:QUAD 2 INP NAND GATE BURN	18324	N74LS00AB
A24U410	156-0072-02			MICROCKT,DGTL:MONOSTABLE MV,SCRN	18324	N74121(NB OR FB)
A24U420	156-0382-02			MICROCKT,DGTL:QUAD 2 INP NAND GATE BURN	18324	N74LS00AB
A24U430	156-0382-02			MICROCKT,DGTL:QUAD 2 INP NAND GATE BURN	18324	N74LS00AB
A24U440	156-0388-02			MICROCKT,DGTL:TRIPLE 3-INP NAND GATE	07263	74LS10PCDR
A24U450	156-0124-00	B010100	B100904	MICROCKT,DGTL:TTL	04713	MC4044
A24U452	156-0124-02	B100905		MICROCKT,DGTL:SCRN	04713	MC4044LDS
A24U650	156-0067-00			MICROCKT,LINEAR:OPNL AMPL,SEL	04713	MC1741CP1
A24V8510	152-0149-00			SEMICOND DVC,DI:SCR,SI,10A,50,0.4W,DO-7	15238	D5408
A25	670-5147-00	B010100	B039355	CIRCUIT BD ASSY:RAMP GENERATOR	80009	670-5147-00
A25	670-5147-01	B040000	B050648	CIRCUIT BD ASSY:RAMP GENERATOR	80009	670-5147-01
A25	670-5147-02	B050649	B080713	CIRCUIT BD ASSY:RAMP GENERATOR	80009	670-5147-02
A25	670-5147-03	B080714		CIRCUIT BD ASSY:RAMP GENERATOR	80009	670-5147-03

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Discont	Name & Description	Mfr. Code	Mfr. Part No.
A26C14	283-0177-00			CAP,FXD,CER DI:10F,+80-20%,25V	04222	SR302E105ZAATR
A26C16	281-0549-00			CAP,FXD,CER DI:68PF,10%,500V	52763	280PL2D07 68P10J
A26C20	283-0003-00			CAP,FXD,CER DI:0.01UF,+80-20%,150V	59821	D103Z40Z5UJ0CEX
A26C40	281-0549-00	B010100	B060648	CAP,FXD,CER DI:68PF,10%,500V	52763	280PL2D07 68P10J
A26C40	283-0334-00	B060649		CAP,FXD,CER DI:130PF,+1-2%,500V	04222	SR207E131FGR
A26C42	283-0177-00			CAP,FXD,CER DI:1UF,+80-20%,25V	04222	SR302E105ZAATR
A26C94	283-0003-00			CAP,FXD,CER DI:0.01UF,+80-20%,150V	59821	D103Z40Z5UJ0CEX
A26C100	281-0518-00	B010100	B060648	CAP,FXD,CER DI:47PF,+/-0.49F,500V	52763	280PL2D07 47P04J
A26C100	281-0605-00	B060649		CAP,FXD,CER DI:200PF,10%,500V	59660	301D007S02D1K
A26C102	283-0111-00			CAP,FXD,CER DI:0.1UF,20%,50V	05397	C330C104M5U1CA
A26C110	281-0518-00	B010100	B060648	CAP,FXD,CER DI:47PF,+/-0.49F,500V	52763	280PL2D07 47P04J
A26C110	281-0605-00	B060649		CAP,FXD,CER DI:200PF,10%,500V	59660	301D007S02D1K
A26C140	290-0534-00			CAP,FXD,ELCTLT:1UF,20%,35V	05397	T368B105M035AS
A26C142	290-0534-00			CAP,FXD,ELCTLT:1UF,20%,35V	05397	T368B105M035AS
A26C144	283-0111-00			CAP,FXD,CER DI:0.1UF,20%,50V	05397	C330C104M5U1CA
A26C200	281-0543-00			CAP,FXD,CER DI:270PF,10%,500V	52763	280PL2D07 27P04J
A26C210	283-0111-00			CAP,FXD,CER DI:0.1UF,20%,50V	05397	C330C104M5U1CA
A26C230	281-0543-00			CAP,FXD,CER DI:270PF,10%,500V	52763	280PL2D07 27P04J
A26C240	290-0534-00			CAP,FXD,ELCTLT:1UF,20%,35V	05397	T368B105M035AS
A26C242	283-0111-00			CAP,FXD,CER DI:0.1UF,20%,50V	05397	C330C104M5U1CA
A26C310	283-0111-00			CAP,FXD,CER DI:0.1UF,20%,50V	05397	C330C104M5U1CA
A26C330	290-0135-01			CAP,FXD,ELCTLT:15UF,20%,20V	05397	T110B156M020AS
A26C340	290-0505-01			CAP,FXD,ELCTLT:3UF,10%,150V	28769	40LW305A150K1C
A26C630	295-1052-00			CAP,FXD,PLASTIC:0.005UF,1%,200V	19396	5329P202F460
A26C810	290-0534-00			CAP,FXD,ELCTLT:1UF,20%,35V	05397	T368B105M035AS
A26C822	295-1052-00			CAP,FXD,PLASTIC:0.005UF,1%,200V	19396	5329P202F460
A26C840	290-0534-00			CAP,FXD,ELCTLT:1UF,20%,35V	05397	T368B105M035AS
A26C842	290-0505-01			CAP,FXD,ELCTLT:3UF,10%,150V	28769	40LW305A150K1C
A26C846	281-0542-00			CAP,FXD,CER DI:15PF,10%,500V	52763	280PL2D07 15P04C
A26C700	281-0548-00			CAP,FXD,CER DI:330PF,10%,500V	52763	280PL2D07 331P04J
A26C750	281-0560-00			CAP,FXD,CER DI:470PF,10%,500V	52763	280PL2D07 471P04J
A26C912	281-0518-00			CAP,FXD,CER DI:47PF,+/-0.49F,500V	52763	280PL2D07 47P04J
A26C914	283-0204-00			CAP,FXD,CER DI:0.01UF,20%,50V	04222	SR155E103MAA
A26C920	283-0003-00			CAP,FXD,CER DI:0.01UF,+80-20%,150V	59821	D103Z40Z5UJ0CEX
A26C940	281-0518-00			CAP,FXD,CER DI:47PF,+/-0.49F,500V	52763	280PL2D07 47P04J
A26C942	283-0204-00			CAP,FXD,CER DI:0.01UF,20%,50V	04222	SR155E103MAA
A26C965	283-0003-00			CAP,FXD,CER DI:0.01UF,+80-20%,150V	59821	D103Z40Z5UJ0CEX
A26C1020	283-0003-00			CAP,FXD,CER DI:0.01UF,+80-20%,150V	59821	D103Z40Z5UJ0CEX
A26C1030	283-0003-00			CAP,FXD,CER DI:0.01UF,+80-20%,150V	59821	D103Z40Z5UJ0CEX
A26C1040	283-0003-00			CAP,FXD,CER DI:0.01UF,+80-20%,150V	59821	D103Z40Z5UJ0CEX
A26C1100	290-0534-00			CAP,FXD,ELCTLT:1UF,20%,35V	05397	T368B105M035AS
A26C1102	281-0140-00	B010100	B039999	CAP,VAR,CER DI:5-25PF,100V	59660	518-0230 5-25
A26C1102	281-0504-00	B040000		CAP,FXD,CER DI:10PF,+/-1PF,500V	54583	1CC20CH2N100FYB
A26C1104	283-0003-00			CAP,FXD,CER DI:0.01UF,+80-20%,150V	59821	D103Z40Z5UJ0CEX
A26C1130	290-0328-00			CAP,FXD,ELCTLT:100UF,20%,25V	28769	40UW107B025 M1B
A26C1132	283-0003-00			CAP,FXD,CER DI:0.01UF,+80-20%,150V	59821	D103Z40Z5UJ0CEX
A26C1140	283-0003-00			CAP,FXD,CER DI:0.01UF,+80-20%,150V	59821	D103Z40Z5UJ0CEX
A26C1200	281-0140-00	B010100	B039999	CAP,VAR,CER DI:5-25PF,100V	59660	518-0230 5-25
A26C1225	283-0003-00			CAP,FXD,CER DI:0.01UF,+80-20%,150V	59821	D103Z40Z5UJ0CEX
A26C1290	290-0534-00			CAP,FXD,ELCTLT:1UF,20%,35V	05397	T368B105M035AS
A26C1300	281-0610-00			CAP,FXD,CER DI:2.2PF,+/-0.1PF,500V	52763	280PL2D07 2P20BC
A26C1320	281-0670-00			CAP,FXD,CER DI:1.8PF,+/-0.1PF,500V	52763	280PL2D07 1P80BC
A26C1322	290-0309-00			CAP,FXD,ELCTLT:100UF,20%,25V	28769	40UW107B025 M1B
A26C1330	281-0538-00			CAP,FXD,CER DI:3.3PF,+/-0.25PF,500V	52763	280PL2D07 3P30CC
A26C1340	281-0538-00			CAP,FXD,CER DI:3.3PF,+/-0.25PF,500V	52763	280PL2D07 3P30CC
A26C1400	281-0504-00			CAP,FXD,CER DI:10PF,+/-1PF,500V	54583	1CC20CH2N100FYB
A26C1420	281-0504-00			CAP,FXD,CER DI:10PF,+/-1PF,500V	54583	1CC20CH2N100FYB
A26C1430	281-0504-00			CAP,FXD,CER DI:10PF,+/-1PF,500V	54583	1CC20CH2N100FYB
A26C1440	281-0504-00			CAP,FXD,CER DI:10PF,+/-1PF,500V	54583	1CC20CH2N100FYB

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Dscont	Name & Description	Mfr. Code	Mfr. Part No.
A260C14	152-0141-02			SEMICOND DVC,DI:SM,SI,30V,150MA,30V,00-35	03508	042527 (1N4152)
A260C20	152-0141-02			SEMICOND DVC,DI:SM,SI,30V,150MA,30V,00-35	03508	042527 (1N4152)
A260C40	152-0141-02			SEMICOND DVC,DI:SM,SI,30V,150MA,30V,00-35	03508	042527 (1N4152)
A260C100	152-0246-00			SEMICOND DVC,DI:SM,SI,40V,200MA,00-7	14433	MG153771K
A260C110	152-0141-02			SEMICOND DVC,DI:SM,SI,30V,150MA,30V,00-35	03508	042527 (1N4152)
A260C130	152-0141-02			SEMICOND DVC,DI:SM,SI,30V,150MA,30V,00-35	03508	042527 (1N4152)
A260C132	152-0246-00			SEMICOND DVC,DI:SM,SI,40V,200MA,00-7	14433	MG153771K
A260C140	152-0141-02			SEMICOND DVC,DI:SM,SI,30V,150MA,30V,00-35	03508	042527 (1N4152)
A260C200	152-0246-00			SEMICOND DVC,DI:SM,SI,40V,200MA,00-7	14433	MG153771K
A260C230	152-0246-00			SEMICOND DVC,DI:SM,SI,40V,200MA,00-7	14433	MG153771K
A260C400	152-0501-00			SEMICOND DVC,DI:SM,SI,70V,0.1A,TO-92	04713	SS07435
A260C420	152-0501-00			SEMICOND DVC,DI:SM,SI,70V,0.1A,TO-92	04713	SS07435
A260C700	152-0141-02			SEMICOND DVC,DI:SM,SI,30V,150MA,30V,00-35	03508	042527 (1N4152)
A260C710	152-0141-02			SEMICOND DVC,DI:SM,SI,30V,150MA,30V,00-35	03508	042527 (1N4152)
A260C730	152-0141-02			SEMICOND DVC,DI:SM,SI,30V,150MA,30V,00-35	03508	042527 (1N4152)
A260C740	152-0141-02			SEMICOND DVC,DI:SM,SI,30V,150MA,30V,00-35	03508	042527 (1N4152)
A260C1100	152-0141-02			SEMICOND DVC,DI:SM,SI,30V,150MA,30V,00-35	03508	042527 (1N4152)
A260C1140	152-0141-02			SEMICOND DVC,DI:SM,SI,30V,150MA,30V,00-35	03508	042527 (1N4152)
A260C1200	152-0141-02			SEMICOND DVC,DI:SM,SI,30V,150MA,30V,00-35	03508	042527 (1N4152)
A260C1240	152-0141-02			SEMICOND DVC,DI:SM,SI,30V,150MA,30V,00-35	03508	042527 (1N4152)
A260C1310	152-0141-02			SEMICOND DVC,DI:SM,SI,30V,150MA,30V,00-35	03508	042527 (1N4152)
A260C1312	152-0141-02			SEMICOND DVC,DI:SM,SI,30V,150MA,30V,00-35	03508	042527 (1N4152)
A260C1340	152-0141-02			SEMICOND DVC,DI:SM,SI,30V,150MA,30V,00-35	03508	042527 (1N4152)
A260C1342	152-0141-02			SEMICOND DVC,DI:SM,SI,30V,150MA,30V,00-35	03508	042527 (1N4152)
A260L1100	108-0298-00			COIL,RF:FIXED,0.25UH	TK1345	108-0298-00
A260L1120	108-0298-00			COIL,RF:FIXED,0.25UH	TK1345	108-0298-00
A260Q70	151-0190-00			TRANSISTOR:NPN,SI,TO-92	80009	151-0190-00
A260Q130	151-0188-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0188-00
A260Q200	151-0188-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0188-00
A260Q210	151-0188-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0188-00
A260Q222	151-0190-00			TRANSISTOR:NPN,SI,TO-92	80009	151-0190-00
A260Q224	151-0190-00			TRANSISTOR:NPN,SI,TO-92	80009	151-0190-00
A260Q230	151-0188-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0188-00
A260Q232	151-0188-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0188-00
A260Q300	151-0134-00			TRANSISTOR:PNP,SI,TO-39	04713	SM3135
A260Q302	151-0134-00			TRANSISTOR:PNP,SI,TO-39	04713	SM3135
A260Q320	151-0188-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0188-00
A260Q330	151-0190-00			TRANSISTOR:NPN,SI,TO-92	80009	151-0190-00
A260Q402	151-0302-00			TRANSISTOR:NPN,SI,TO-18	04713	S1699
A260Q410	151-0220-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0220-00
A260Q420	151-0302-00			TRANSISTOR:NPN,SI,TO-18	04713	S1699
A260Q422	151-0302-00			TRANSISTOR:NPN,SI,TO-18	04713	S1699
A260Q440	151-0220-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0220-00
A260Q500	151-1036-00			TRANSISTOR:FET,N-CHAN,SI,TO-71	80009	151-1036-00
A260Q502	151-1036-00			TRANSISTOR:FET,N-CHAN,SI,TO-71	80009	151-1036-00
A260Q700	151-0134-00			TRANSISTOR:PNP,SI,TO-39	04713	SM3135
A260Q720	151-0220-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0220-00
A260Q740	151-0134-00			TRANSISTOR:PNP,SI,TO-39	04713	SM3135
A260Q742	151-0220-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0220-00
A260Q1010	151-0232-00			TRANSISTOR:NPN,SI,TO-78	07263	SP12141
A260Q1040	151-0232-00			TRANSISTOR:NPN,SI,TO-78	07263	SP12141
A260Q1110	151-0220-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0220-00
A260Q1120	151-0232-00			TRANSISTOR:NPN,SI,TO-78	07263	SP12141
A260Q1140	151-0220-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0220-00
A260Q1142	151-0232-00			TRANSISTOR:NPN,SI,TO-78	07263	SP12141
A260Q1210	151-0232-00			TRANSISTOR:NPN,SI,TO-78	07263	SP12141
A260Q1240	151-0232-00			TRANSISTOR:NPN,SI,TO-78	07263	SP12141
A260Q1300	151-0220-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0220-00
A260Q1310	151-0220-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0220-00

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Discont	Name & Description	Mfr. Code	Mfr. Part No.
Q2601312	151-0220-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0220-00
Q2601325	151-0220-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0220-00
Q2601330	151-0220-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0220-00
Q2601340	151-0220-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0220-00
Q2601342	151-0220-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0220-00
Q2601344	151-0220-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0220-00
R2642	321-0383-00			RES,FXD,FILM:4.5 MEG OHM,1%,0.125W,TC=T0	81537	CMF55116-G4500F
R2646	321-0247-00			RES,FXD,FILM:3.65K OHM,1%,0.125W,TC=T0	19701	5043ED3K650F
R2648	321-0276-00			RES,FXD,FILM:7.32K OHM,1%,0.125W,TC=T0	19701	5043ED7K320F
R2650	321-0217-00			RES,FXD,FILM:1.78K OHM,1%,0.125W,TC=T0	19701	5043D1K780F
R2652	321-0481-00			RES,FXD,FILM:1M OHM,1%,0.125W,TC=T0	19701	5043ED1M000F
R2654	321-0227-00			RES,FXD,FILM:2.26K OHM,1%,0.125W,TC=T0	01121	RN42261F
R2656	321-0261-09			RES,FXD,FILM:5.11K OHM,1%,0.125W,TC=T9	07716	CEBES1100F
R2658	315-0183-00			RES,FXD,FILM:18K OHM,5%,0.25W	19701	5043CX18K00J
R2660	321-0299-00			RES,FXD,FILM:3.01K OHM,1%,0.125W,TC=T0	19701	5043ED3K010F
R2662	321-0322-00			RES,FXD,FILM:2.00K OHM,1%,0.125W,TC=T0	19701	5033ED2K00F
R2664	315-0103-00			RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10K00J
R2666	315-0432-00			RES,FXD,FILM:4.3K OHM,5%,0.25W	57668	NTR25J-E04K3
R2668	315-0472-00			RES,FXD,FILM:4.7K OHM,5%,0.25W	57668	NTR25J-E04K7
R2670	315-0103-00			RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10K00J
R2671	321-0305-00			RES,FXD,FILM:14.7K OHM,1%,0.125W,TC=T0	19701	5033D14K70F
R2672	321-0486-00			RES,FXD,FILM:1.13 MEG OHM,1%,0.125W,T=T0	19701	5033D01M130F
R2673	321-0383-00			RES,FXD,FILM:4.5 MEG OHM,1%,0.125W,TC=T0	81537	CMF55116-G4500F
R2674	321-0428-00			RES,FXD,FILM:280K OHM,1%,0.125W,TC=T0	24546	M55182K03F
R2675	321-0261-09			RES,FXD,FILM:5.11K OHM,1%,0.125W,TC=T9	07716	CEBES1100F
R2676	321-0481-00			RES,FXD,FILM:1M OHM,1%,0.125W,TC=T0	19701	5043ED1M000F
R2677	321-0261-03	B010100	B060848	RES,FXD,FILM:5.11K OHM,1%,0.125W,TC=T9	07716	CEBES1100F
R2677	321-0216-03	B060849	B060713	RES,FXD,FILM:1.74K OHM,1%,0.125W,TC=T0	07716	CEBD1740F
R2677	315-0362-00	B060714		RES,FXD,FILM:3.6K OHM,5%,0.25W	19701	5043CX3K60J
R2680	315-0183-00			RES,FXD,FILM:18K OHM,5%,0.25W	19701	5043CX18K00J
R2682	321-0322-00			RES,FXD,FILM:2.00K OHM,1%,0.125W,TC=T0	19701	5033ED2K00F
R2684	321-0239-00			RES,FXD,FILM:5.01K OHM,1%,0.125W,TC=T0	19701	5043ED5K010F
R2690	303-0391-00			RES,FXD,CMPSN:390 OHM,5%,1W	01121	GB3915
R2692	315-0103-00			RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10K00J
R2698	321-0261-09			RES,FXD,FILM:5.11K OHM,1%,0.125W,TC=T9	07716	CEBES1100F
R2699	315-0472-00			RES,FXD,FILM:4.7K OHM,5%,0.25W	57668	NTR25J-E04K7
R2702	315-0103-00			RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10K00J
R2704	315-0472-00			RES,FXD,FILM:4.7K OHM,5%,0.25W	57668	NTR25J-E04K7
R2710	321-0261-09			RES,FXD,FILM:5.11K OHM,1%,0.125W,TC=T9	07716	CEBES1100F
R2712	315-0101-00			RES,FXD,FILM:100 OHM,5%,0.25W	57668	NTR25J-E 100E
R2714	315-0332-00			RES,FXD,FILM:3.3K OHM,5%,0.25W	57668	NTR25J-E03K3
R2716	315-0103-00			RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10K00J
R2718	315-0432-00			RES,FXD,FILM:4.3K OHM,5%,0.25W	57668	NTR25J-E04K3
R2720	315-0101-00			RES,FXD,FILM:100 OHM,5%,0.25W	57668	NTR25J-E 100E
R2722	315-0332-00			RES,FXD,FILM:3.3K OHM,5%,0.25W	57668	NTR25J-E03K3
R2724	321-0143-00			RES,FXD,FILM:301 OHM,1%,0.125W,TC=T0	07716	CEB0301F0F
R2726	321-0129-00			RES,FXD,FILM:200 OHM,1%,0.125W,TC=T0	19701	5033ED200R0F
R2728	315-0103-00			RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10K00J
R2730	315-0332-00			RES,FXD,FILM:3.3K OHM,5%,0.25W	19701	5043CX3K30J
R2732	315-0472-00			RES,FXD,FILM:4.7K OHM,5%,0.25W	57668	NTR25J-E04K7
R2734	315-0621-00	B010100	B010299	RES,FXD,FILM:620 OHM,5%,0.25W	57668	NTR25J-E620E
R2734	315-0751-00	B010300		RES,FXD,FILM:750 OHM,5%,0.25W	57668	NTR25J-E750E
R2736	322-0219-00			RES,FXD,FILM:1.87K OHM,1%,0.25W,TC=T0	75042	CEBT0-1871F
R2738	315-0184-00			RES,FXD,FILM:180K OHM,5%,0.25W	19701	5043CX180K3J

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Dscont	Name & Description	Mfr. Code	Mfr. Part No.
A2R8332	315-0472-00			RES,FXD,FILM:4.7K OHM,5%,0.25W	57668	MTR25J-E04K7
A2R8340	315-0362-00			RES,FXD,FILM:3.6K OHM,5%,0.25W	19701	5043CX3602J
A2R8342	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	MTR25J1E01K0
A2R8344	321-0260-03			RES,FXD,FILM:4.99K OHM,0.25%,0.125W,T=T2	01121	ORDER BY DESCR
A2R8430	315-0822-00			RES,FXD,FILM:8.2K OHM,5%,0.25W	19701	5043CX8201J
A2R8432	321-0293-00			RES,FXD,FILM:11.8K OHM,1%,0.125W,TC=T0	07716	CEA0118001F
A2R8434	321-0278-00			RES,FXD,FILM:7.68K OHM,1%,0.125W,TC=T0	07716	CEA0768001F
A2R8436	321-0327-03			RES,FXD,FILM:20.8K OHM,0.25%,0.125W,TC=T2	24546	NE55C2432E
A2R8440	315-0262-00			RES,FXD,FILM:2.69K OHM,0.25%,0.125W,T=T2	01121	ORDER BY DESCR
A2R8442	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	MTR25J1E01K0
A2R8444	315-0103-00			RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX1002J
A2R8446	315-0362-00			RES,FXD,FILM:3.6K OHM,5%,0.25W	19701	5043CX3602J
A2R8448	315-0100-00			RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX10R00J
A2R8450	315-0822-00			RES,FXD,FILM:8.2K OHM,5%,0.25W	19701	5043CX8201J
A2R8452	321-0293-00			RES,FXD,FILM:11.8K OHM,1%,0.125W,TC=T0	07716	CEA0118001F
A2R8454	321-0278-00			RES,FXD,FILM:7.68K OHM,1%,0.125W,TC=T0	07716	CEA0768001F
A2R8456	321-0327-03			RES,FXD,FILM:20.8K OHM,0.25%,0.125W,TC=T2	24546	NE55C2432E
A2R8460	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	MTR25J1E01K0
A2R8462	315-0100-00			RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX10R00J
A2R8500	315-0512-00			RES,FXD,FILM:5.1K OHM,5%,0.25W	57668	MTR25J-E05K1
A2R8502	315-0103-00			RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX1002J
A2R8504	315-0100-00			RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX10R00J
A2R8506	315-0104-00			RES,FXD,FILM:100K OHM,5%,0.25W	57668	MTR25J-E100K
A2R8508	315-0104-00			RES,FXD,FILM:100K OHM,5%,0.25W	57668	MTR25J-E100K
A2R8510	315-0101-00			RES,FXD,FILM:100 OHM,5%,0.25W	57668	MTR25J-E 100E
A2R8520	321-0260-03			RES,FXD,FILM:4.99K OHM,0.25%,0.125W,T=T2	01121	ORDER BY DESCR
A2R8522	321-0277-00			RES,FXD,FILM:1.24K OHM,1%,0.125W,TC=T0	24546	NE55D1241F
A2R8524	321-0277-03			RES,FXD,FILM:7.50K OHM,0.25%,0.125W,T=T2	01121	ORDER BY DESCR
A2R8526	315-0512-00			RES,FXD,FILM:5.1K OHM,5%,0.25W	57668	MTR25J-E05K1
A2R8528	315-0103-00			RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX1002J
A2R8529	315-0100-00			RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX10R00J
A2R8530	315-0104-00			RES,FXD,FILM:100K OHM,5%,0.25W	57668	MTR25J-E100K
A2R8532	315-0104-00			RES,FXD,FILM:100K OHM,5%,0.25W	57668	MTR25J-E100K
A2R8534	315-0104-00			RES,FXD,FILM:100K OHM,5%,0.25W	57668	MTR25J-E100K
A2R8536	315-0472-00			RES,FXD,FILM:4.7K OHM,5%,0.25W	57668	MTR25J-E04K7
A2R8540	315-0101-00			RES,FXD,FILM:100 OHM,5%,0.25W	57668	MTR25J-E 100E
A2R8542	321-0260-03			RES,FXD,FILM:4.99K OHM,0.25%,0.125W,T=T2	01121	ORDER BY DESCR
A2R8544	321-0202-00			RES,FXD,FILM:1.24K OHM,1%,0.125W,TC=T0	24546	NE55D1241F
A2R8600	315-0332-00			RES,FXD,FILM:3.3K OHM,5%,0.25W	57668	MTR25J-E03K3
A2R8602	315-0130-00			RES,FXD,FILM:13 OHM,5%,0.25W	19701	5043CX13R00J
A2R8604	311-1248-00			RES,VAR,NONWW:100K,500 OHM,0.5W	32997	3386X-T07-504
A2R8610	315-0301-00			RES,FXD,FILM:300 OHM,5%,0.25W	57668	MTR25J-E300E
A2R8612	315-0681-00			RES,FXD,FILM:680 OHM,5%,0.25W	57668	MTR25J-E680E
A2R8614	322-0327-03			RES,FXD,FILM:20.5K OHM,0.25%,0.25W,TC=T2	19701	5043MC20450C
A2R8616	315-0203-00			RES,FXD,FILM:20K OHM,5%,0.25W	57668	MTR25J-E 20K
A2R8622	301-0362-00			RES,FXD,FILM:3.6K OHM,5%,0.5W	19701	5053CX3602J
A2R8630	315-0392-00			RES,FXD,FILM:3.9K OHM,5%,0.25W	57668	MTR25J-E03K9
A2R8632	315-0103-00			RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX1002J
A2R8634	311-1248-00			RES,VAR,NONWW:TRMR,500 OHM,0.5W	32997	3386X-T07-501
A2R8640	315-0301-00			RES,FXD,FILM:300 OHM,5%,0.25W	57668	MTR25J-E300E
A2R8642	315-0681-00			RES,FXD,FILM:680 OHM,5%,0.25W	57668	MTR25J-E680E
A2R8644	322-0327-03			RES,FXD,FILM:20.5K OHM,0.25%,0.25W,TC=T2	19701	5043MC20450C
A2R8646	315-0203-00			RES,FXD,FILM:20K OHM,5%,0.25W	57668	MTR25J-E 20K
A2R8648	301-0362-00			RES,FXD,FILM:3.6K OHM,5%,0.5W	19701	5053CX3602J
A2R8649	321-0277-03			RES,FXD,FILM:7.50K OHM,0.25%,0.125W,T=T2	01121	ORDER BY DESCR
A2R8700	315-0100-00			RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX10R00J
A2R8710	303-0471-00			RES,FXD,CMPSN:470 OHM,5%,1W	01121	EB4715

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Descnt	Name & Description	Mfr Code	Mfr Part No.
A26R712	315-0261-00			RES,FXD,FILM:260 OHM,5%,0.25W	57668	MTR25J-E260E
A26R730	315-0100-00			RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX10R0J
A26R740	301-0102-00			RES,FXD,FILM:1K OHM,5%,0.5W	19701	5053CX1K00J
A26R742	315-0201-00			RES,FXD,FILM:200 OHM,5%,0.25W	57668	MTR25J-E200E
A26R803	315-0103-00			RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10K0J
A26R833	315-0103-00			RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10K0J
A26R838	311-1248-00			RES,VAR,NONWW:TRMR,500 OHM,0.5W	32997	3386X-T07-501
A26R902	321-0254-09			RES,FXD,FILM:4.32K OHM,1%,0.125W,TC=T9	01121	ORDER BY DESCR
A26R904	321-0258-09			RES,FXD,FILM:4.75K OHM,1%,0.125W,TC=T9	07716	CEA04750F
A26R906	321-0258-09			RES,FXD,FILM:4.75K OHM,1%,0.125W,TC=T9	07716	CEA04750F
A26R908	321-0428-09			RES,FXD,FILM:178K OHM,1%,0.125W,TC=T9	19701	5033E178K0F
A26R910	321-0315-00			RES,FXD,FILM:332K OHM,1%,0.125W,TC=T0	07716	CEA0332G0F
A26R912	315-0751-00			RES,FXD,FILM:750 OHM,5%,0.25W	57668	MTR25J-E750E
A26R914	315-0100-00			RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX10R0J
A26R920	315-0100-00			RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX10R0J
A26R922	315-0273-00			RES,FXD,FILM:27K OHM,5%,0.25W	57668	MTR25J-E27KC
A26R930	311-1248-00			RES,VAR,NONWW:TRMR,500 OHM,0.5W	32997	3386X-T07-501
A26R932	321-0254-09			RES,FXD,FILM:4.32K OHM,1%,0.125W,TC=T9	01121	ORDER BY DESCR
A26R940	321-0258-09			RES,FXD,FILM:4.75K OHM,1%,0.125W,TC=T9	07716	CEA04750F
A26R941	321-0258-09			RES,FXD,FILM:4.75K OHM,1%,0.125W,TC=T9	07716	CEA04750F
A26R942	321-0392-09			RES,FXD,FILM:118K OHM,1%,0.125W,TC=T9	07716	CEA01180F
A26R943	321-0423-09			RES,FXD,FILM:249K OHM,1%,0.125W,TC=T9	01121	ADVISE
A26R944	315-0751-00			RES,FXD,FILM:750 OHM,5%,0.25W	57668	MTR25J-E750E
A26R945	315-0100-00			RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX10R0J
A26R946	315-0100-00			RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX10R0J
A26R1000	311-1238-00			RES,VAR,NONWW:TRMR,5K OHM,0.5W	32997	3386X-D76-502
A26R1002	321-0306-09			RES,FXD,FILM:15.0K OHM,1%,0.125W,TC=T9	01121	ORDER BY DESCR
A26R1004	321-0338-09			RES,FXD,FILM:32.4K OHM,1%,0.125W,TC=T9	19701	5033RE32K40F
A26R1008	321-0201-09			RES,FXD,FILM:1.21K OHM,1%,0.125W,TC=T9	01121	ADVISE
A26R1010	315-0271-00			RES,FXD,FILM:270 OHM,5%,0.25W	57668	MTR25J-E270E
A26R1012	315-0562-00			RES,FXD,FILM:5.6K OHM,5%,0.25W	57668	MTR25J-E5K60
A26R1020	321-0327-00			RES,FXD,FILM:24.9K OHM,1%,0.125W,TC=T0	07716	CEA02490F
A26R1022	321-0352-00			RES,FXD,FILM:45.3K OHM,1%,0.125W,TC=T0	07716	CEA04530F
A26R1024	315-0100-00			RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX10R0J
A26R1030	315-0100-00			RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX10R0J
A26R1032	311-1238-00			RES,VAR,NONWW:TRMR,5K OHM,0.5W	32997	3386X-D76-502
A26R1040	321-0287-09			RES,FXD,FILM:9.53K OHM,1%,0.125W,TC=T9	01121	ORDER BY DESCR
A26R1041	321-0321-07			RES,FXD,FILM:21.5K OHM,0.1%,0.125W,TC=T9	19701	5033RE21K50B
A26R1042	321-0201-09			RES,FXD,FILM:1.21K OHM,1%,0.125W,TC=T9	01121	ADVISE
A26R1043	315-0271-00			RES,FXD,FILM:270 OHM,5%,0.25W	57668	MTR25J-E270E
A26R1044	315-0562-00			RES,FXD,FILM:5.6K OHM,5%,0.25W	57668	MTR25J-E5K60
A26R1045	321-0362-00			RES,FXD,FILM:65.3K OHM,1%,0.125W,TC=T0	07716	CEA06530F
A26R1046	321-0327-00			RES,FXD,FILM:24.9K OHM,1%,0.125W,TC=T0	07716	CEA02490F
A26R1100	315-0101-00			RES,FXD,FILM:100 OHM,5%,0.25W	57668	MTR25J-E 100J
A26R1110	321-0327-00			RES,FXD,FILM:24.9K OHM,1%,0.125W,TC=T0	07716	CEA02490F
A26R1112	321-0257-00			RES,FXD,FILM:4.64K OHM,1%,0.125W,TC=T0	19701	5033E04K64F
A26R1114	321-0291-00			RES,FXD,FILM:10.5K OHM,1%,0.125W,TC=T0	19701	5033E010K50F
A26R1116	321-0331-09			RES,FXD,FILM:27.4K OHM,1%,0.125W,TC=T9	19701	5033E27K40F
A26R1130	315-0100-00			RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX10R0J
A26R1140	321-0327-00			RES,FXD,FILM:24.9K OHM,1%,0.125W,TC=T0	07716	CEA02490F
A26R1142	321-0257-09			RES,FXD,FILM:4.64K OHM,1%,0.125W,TC=T9	07716	CEA04640F
A26R1144	321-0291-09			RES,FXD,FILM:10.5K OHM,1%,0.125W,TC=T9	01121	ORDER BY DESCR
A26R1146	321-0331-09			RES,FXD,FILM:27.4K OHM,1%,0.125W,TC=T9	19701	5033E27K40F
A26R1200	315-0560-00	B010100	B060549	RES,FXD,FILM:56 OHM,5%,0.25W	57668	MTR25J-E56E0
A26R1202	315-0471-00			RES,FXD,FILM:470 OHM,5%,0.25W	57668	MTR25J-E470E
A26R1204	321-0171-09			RES,FXD,FILM:590 OHM,1%,0.125W,TC=T9	91637	CMF55116C5900F
A26R1210	321-0171-09			RES,FXD,FILM:590 OHM,1%,0.125W,TC=T9	91637	CMF55116C5900F
A26R1212	321-0292-09			RES,FXD,FILM:10.7K OHM,1%,0.125W,TC=T9	01121	ORDER BY DESCR
A26R1214	321-0313-09			RES,FXD,FILM:17.8K OHM,1%,0.125W,TC=T9	01121	ORDER BY DESCR

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Dscont	Name & Description	Mfr. Code	Mfr. Part No.
A25R1220	315-0471-00			RES,FXD,FILM:470 OHM,5%,0.25W	57668	NTR25J-E470E
A25R1222	321-0313-09			RES,FXD,FILM:17.8K OHM,1%,0.125W,TC=T0	01121	ORDER BY DESCR
A25R1224	321-0286-09			RES,FXD,FILM:11.8K OHM,1%,0.125W,TC=T0	01121	ORDER BY DESCR
A25R1226	315-0100-00			RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX*0*00J	
A25R1230	315-0101-00			RES,FXD,FILM:100 OHM,5%,0.25W	57668	NTR25J-E100E
A25R1232	315-0471-00			RES,FXD,FILM:470 OHM,5%,0.25W	57668	NTR25J-E470E
A25R1240	321-0171-09			RES,FXD,FILM:550 OHM,1%,0.125W,TC=T9	91637	CMF55116C5500F
A25R1241	321-0171-09			RES,FXD,FILM:550 OHM,1%,0.125W,TC=T9	91637	CMF55116C5500F
A25R1242	321-0292-09			RES,FXD,FILM:20.7K OHM,1%,0.125W,TC=T9	01121	ORDER BY DESCR
A25R1243	321-0313-09			RES,FXD,FILM:17.8K OHM,1%,0.125W,TC=T9	01121	ORDER BY DESCR
A25R1244	315-0471-00			RES,FXD,FILM:470 OHM,5%,0.25W	57668	NTR25J-E470E
A25R1245	321-0313-09			RES,FXD,FILM:17.8K OHM,1%,0.125W,TC=T0	01121	ORDER BY DESCR
A25R1246	321-0296-09			RES,FXD,FILM:11.5K OHM,1%,0.125W,TC=T9	01121	ORDER BY DESCR
A25R1300	321-0305-09			RES,FXD,FILM:15.0K OHM,1%,0.125W,TC=T9	01121	ORDER BY DESCR
A25R1310	315-0102-00			RES,FXD,FILM:1.0K OHM,5%,0.25W	57668	NTR25J-E1K0
A25R1320	321-0316-00			RES,FXD,FILM:15.0K OHM,1%,0.125W,TC=T0	19701	5033D315J00F
A25R1340	321-0316-09			RES,FXD,FILM:15.0K OHM,1%,0.125W,TC=T0	01121	ORDER BY DESCR
A25R1342	315-0102-00			RES,FXD,FILM:1.0K OHM,5%,0.25W	57668	NTR25J-E1K0
A25R1344	321-0305-09			RES,FXD,FILM:15.0K OHM,1%,0.125W,TC=T9	01121	ORDER BY DESCR
A25R1400	315-0103-00			RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX103000J
A25R1402	321-0285-09			RES,FXD,FILM:10.0K OHM,1%,0.125W,TC=T0	19701	5033RE10A00F
A25R1410	321-0260-09			RES,FXD,FILM:4.99K OHM,1%,.125W,TC=T0	01121	ORDER BY DESCR
A25R1412	321-0261-09			RES,FXD,FILM:5.11K OHM,1%,0.125W,TC=T9	07716	CEQ1S1100F
A25R1414	311-1238-00			RES,VAR,NONWW:TRMR,5K OHM,0.5W	32997	3386X-075-502
A25R1416	321-0295-09			RES,FXD,FILM:11.5K OHM,1%,0.125W,TC=T9	01121	ORDER BY DESCR
A25R1418	321-0261-09			RES,FXD,FILM:5.11K OHM,1%,0.125W,TC=T9	07716	CEQ1S1100F
A25R1420	321-0260-09			RES,FXD,FILM:4.99K OHM,1%,.125W,TC=T9	01121	ORDER BY DESCR
A25R1422	321-0289-09			RES,FXD,FILM:10.0K OHM,1%,0.125W,TC=T9	19701	5033RE10A00F
A25R1424	315-0100-00			RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX*0*00J
A25R1430	315-0100-00			RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX103000J
A25R1432	321-0289-09			RES,FXD,FILM:10.0K OHM,1%,0.125W,TC=T9	19701	5033RE10A00F
A25R1440	321-0263-09			RES,FXD,FILM:5.36K OHM,1%,0.125W,TC=T0	01121	ORDER BY DESCR
A25R1441	321-0289-09			RES,FXD,FILM:10.0K OHM,1%,0.125W,TC=T9	19701	5033RE10A00F
A25R1442	311-1238-00			RES,VAR,NONWW:TRMR,5K OHM,0.5W	32997	3386X-075-502
A25R1443	321-0289-09			RES,FXD,FILM:10.0K OHM,1%,0.125W,TC=T9	19701	5033RE10A00F
A25R1444	321-0289-09			RES,FXD,FILM:10.0K OHM,1%,0.125W,TC=T9	19701	5033RE10A00F
A25R1445	321-0263-09			RES,FXD,FILM:5.36K OHM,1%,0.125W,TC=T9	01121	ORDER BY DESCR
A25R1446	321-0289-09			RES,FXD,FILM:10.0K OHM,1%,0.125W,TC=T9	19701	5033RE10A00F
A25R1447	315-0100-00			RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX100000J
A25U20	156-0742-00	B010100	B100804	MICROCKT,LINEAR:OPNL AMPL	01295	LM310P
A25U20	156-0742-01	B100805	B101144	MICROCKT,LINEAR:OPNL AMPL,FUNCTIONAL TEST	80009	156-0742-01
A25U20	156-0742-02	B101145		MICROCKT,LINEAR:OPNL AMPL,SELECTED	27014	LM108H/B+
A25U40	156-0742-00	B010100	B100804	MICROCKT,LINEAR:OPNL AMPL	01295	LM310P
A25U40	156-0742-01	B100805	B101144	MICROCKT,LINEAR:OPNL AMPL,FUNCTIONAL TEST	80009	156-0742-01
A25U40	156-0742-02	B101145		MICROCKT,LINEAR:OPNL AMPL,SELECTED	27014	LM108H/A+
A25U110	156-0388-03			MICROCKT,DGTL:DUAL D FLIP-FLOP	01295	SN74LS74AN3
A25U122	156-0388-02			MICROCKT,DGTL:TRIPLE 3-INP NAND GATE	07263	74LS10PCQR
A25U140	156-0388-03			MICROCKT,DGTL:DUAL D FLIP-FLOP	01295	SN74LS74AN3
A25U210	156-0382-02			MICROCKT,DGTL:QUAD 2 INP NAND GATE BUFR	18324	N74LS00N3
A25U240	156-0382-02			MICROCKT,DGTL:QUAD 2 INP NAND GATE BUFR	18324	N74LS00N3
A25U310	156-0382-02			MICROCKT,DGTL:QUAD 2 INP NAND GATE BUFR	18324	N74LS00N3
A25U342	156-0405-03			MICROCKT,DGTL:DUAL RETRIG MONOSTABLE MV	18324	N9602(OR DR FR)
A25U410	156-0068-00	B010100	B100804	MICROCKT,LINEAR:5 XSTR ARRAY	02735	CA3046-17
A25U410	156-0048-02	B100805		MICROCKT,LINEAR:5 XSTR ARRAY,CHECKED	80009	156-0048-02
A25U440	156-0068-00	B010100	B100804	MICROCKT,LINEAR:5 XSTR ARRAY	02735	CA3046-17
A25U440	156-0048-02	B100805		MICROCKT,LINEAR:5 XSTR ARRAY,CHECKED	80009	156-0048-02
A25U510	156-0068-00	B010100	B100804	MICROCKT,LINEAR:5 XSTR ARRAY	02735	CA3046-17
A25U510	156-0048-02	B100805		MICROCKT,LINEAR:5 XSTR ARRAY,CHECKED	80009	156-0048-02
A25U540	156-0068-00	B010100	B100804	MICROCKT,LINEAR:5 XSTR ARRAY	02735	CA3046-17

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020W140	156-0046-02	B100935		MICROCKT,LINEAR:5 XSTR ARRAY,CHECKED	80009	156-0046-02
020W520	152-0228-00			SEMICOND DVC,DI:IGN,SI,5.1V,5%,0.4W,30-7	04713	SZTZ0620L
A29	670-5145-00	B010100	B070679	CIRCUIT BD ASSY:VIDEO PROCESSOR	80009	670-5145-00
A29	670-5145-01	B070680	B079999	CIRCUIT BD ASSY:VIDEO PROCESSOR	80009	670-5145-01
A29	670-5145-02	B080000		CIRCUIT BD ASSY:VIDEO PROCESSOR	80009	670-5145-02
A29C4	283-0067-00			CAP,FXD,CER DI:0.001UF,10%,200V	59660	835-515-Y5E102K
A29C6	283-0067-00			CAP,FXD,CER DI:0.001UF,10%,200V	59660	835-515-Y5E102K
A29C8	281-0523-00			CAP,FXD,CER DI:100PF,20%,350V	52763	290PL2007 100PK
A29C22	290-0536-00			CAP,FXD,ELCTLT:10UF,20%,25V TANTALUM	05397	T368B106M025S
A29C31	283-0637-00			CAP,FXD,MICA DI:20PF,2.5%,500V	00853	D155E200D0
A29C35	283-0103-00			CAP,FXD,CER DI:180PF,5%,500V	59821	200H73L181J
A29C42	290-0301-00			CAP,FXD,ELCTLT:10UF,10%,20V	05397	T110B106K020S
A29C102	283-0003-00			CAP,FXD,CER DI:0.01UF,+80-20%,150V	59821	D103Z01SUJDCEX
A29C132	283-0198-00			CAP,FXD,CER DI:0.22UF,20%,50V	05397	C330C224M5U1CS
A29C136	283-0142-00			CAP,FXD,CER DI:0.0027UF,5%,200V	54583	CK45YE202ZJ-B
A29C138	283-0136-00			CAP,FXD,CER DI:0.0047UF,10%,200V	04222	SR305A472K03
A29C204	283-0023-00			CAP,FXD,CER DI:0.1UF,+80-20%,12V	71590	200U668104Z
A29C218	283-0023-00			CAP,FXD,CER DI:0.1UF,+80-20%,12V	71590	200U668104Z
A29C244	283-0023-00			CAP,FXD,CER DI:0.1UF,+80-20%,12V	71590	200U668104Z
A29C245	290-0708-00			CAP,FXD,ELCTLT:820UF,20%,,6V	09001	69F220107
A29C300	283-0510-00			CAP,FXD,CER DI:0.05UF,+80-20%,50V	04222	SR305C503ZAA
A29C304	283-0023-00			CAP,FXD,CER DI:0.1UF,+80-20%,12V	71590	200U668104Z
A29C314	283-0023-00			CAP,FXD,CER DI:0.1UF,+80-20%,12V	71590	200U668104Z
A29C330	283-0023-00			CAP,FXD,CER DI:0.1UF,+80-20%,12V	71590	200U668104Z
A29C402	283-0023-00			CAP,FXD,CER DI:0.1UF,+80-20%,12V	71590	200U668104Z
A29C419	283-0003-00			CAP,FXD,CER DI:0.01UF,+80-20%,150V	59821	D103Z01SUJDCEX
A29C421	283-0023-00			CAP,FXD,CER DI:0.1UF,+80-20%,12V	71590	200U668104Z
A29C422	290-0534-00			CAP,FXD,ELCTLT:1UF,20%,35V	05397	T368B105M035S
A29C424	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A29C429	281-0519-00			CAP,FXD,CER DI:47PF,+/-4.7PF,500V	52763	290PL2007 47P5K
A29C432	283-0177-00			CAP,FXD,CER DI:10F,+80-20%,25V	04222	SR302E105ZAATR
A29C444	290-0723-00			CAP,FXD,ELCTLT:150UF,20%,6V	56289	196D157X0006F2
A29C448	290-0301-00			CAP,FXD,ELCTLT:10UF,10%,20V	05397	T110B106K020S
A29C512	283-0023-00			CAP,FXD,CER DI:0.1UF,+80-20%,12V	71590	200U668104Z
A29C524	283-0003-00			CAP,FXD,CER DI:0.01UF,+80-20%,150V	59821	D103Z01SUJDCEX
A29C526	290-0534-00			CAP,FXD,ELCTLT:1UF,20%,35V	05397	T368B105M035S
A29C542	283-0003-00			CAP,FXD,CER DI:0.01UF,+80-20%,150V	59821	D103Z01SUJDCEX
A29C544	283-0003-00			CAP,FXD,CER DI:0.01UF,+80-20%,150V	59821	D103Z01SUJDCEX
A29C546	290-0534-00			CAP,FXD,ELCTLT:1UF,20%,35V	05397	T368B105M035S
A29C602	290-0512-00			CAP,FXD,ELCTLT:22UF,20%,15V	05397	T368B226M015S
A29C606	281-0582-00			CAP,FXD,CER DI:4.7PF,+/-0.5PF,500V	52763	290PL2007 4P7D0
A29C626	290-0534-00			CAP,FXD,ELCTLT:1UF,20%,35V	05397	T368B105M035S
A29C630	283-0094-00			CAP,FXD,CER DI:270PF,10%,200V	59821	Z5U271K201X
A29C642	290-0534-00			CAP,FXD,ELCTLT:1UF,20%,35V	05397	T368B105M035S
A29C644	283-0003-00			CAP,FXD,CER DI:0.01UF,+80-20%,150V	59821	D103Z01SUJDCEX
A29C648	283-0003-00			CAP,FXD,CER DI:0.01UF,+80-20%,150V	59821	D103Z01SUJDCEX
A29C702	281-0670-00			CAP,FXD,CER DI:1.8PF,+/-0.1PF,500V	52763	290PL2007 1P8B5
A29C708	283-0003-00			CAP,FXD,CER DI:0.01UF,+80-20%,150V	59821	D103Z01SUJDCEX
A29C714	281-0535-00			CAP,FXD,CER DI:100PF,10%,500V	52763	290PL2007 1N0K5
A29C716	283-0194-00			CAP,FXD,CER DI:4.7UF,20%,50V	04222	SR505C475MAA
A29C720	281-0538-00			CAP,FXD,CER DI:100PF,10%,500V	52763	290PL2007 1N0K5
A29C726	283-0023-00			CAP,FXD,CER DI:0.1UF,+80-20%,12V	71590	200U668104Z
A29C728	283-0003-00			CAP,FXD,CER DI:0.01UF,+80-20%,150V	59821	D103Z01SUJDCEX
A29C740	290-0534-00			CAP,FXD,ELCTLT:1UF,20%,35V	05397	T368B105M035S
A29C742	283-0769-00			CAP,FXD,MICA DI:270 PF,1%,500V	00853	D155F271CD0
A29C746	283-0663-00			CAP,FXD,MICA DI:1130PF,2%,300V	00853	D155F113GD0
A29C748	283-0003-00			CAP,FXD,CER DI:0.01UF,+80-20%,150V	59821	D103Z01SUJDCEX

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A28C826	283-0204-00			CAP,FXD,CER DI:0.01UF,20%,50V	04222	SR155E103MAA
A28C828	283-0204-00			CAP,FXD,CER DI:0.01UF,20%,50V	04222	SR155E103MAA
A28C836	283-0177-00			CAP,FXD,CER DI:1UF,+80-20%,25V	04222	SR302E105ZAATR
A28C914	283-0198-00			CAP,FXD,CER DI:4.7UF,20%,50V	04222	SR305E475MAA
A28C924	283-0204-00			CAP,FXD,CER DI:0.01UF,20%,50V	04222	SR155E103MAA
A28C926	283-0204-00			CAP,FXD,CER DI:0.01UF,20%,50V	04222	SR155E103MAA
A28C936	290-0524-00			CAP,FXD,ELCTLT:1UF,20%,35V	05397	T368B105M035AS
A28C988	283-0177-00			CAP,FXD,CER DI:1UF,+80-20%,25V	04222	SR302E105ZAATR
A28CR8	152-0141-02			SEMICOND DVC,DI:SR,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
A28CR81	152-0141-02			SEMICOND DVC,DI:SR,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
A28CR118	152-0141-02			SEMICOND DVC,DI:SR,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
A28CR218	152-0141-02			SEMICOND DVC,DI:SR,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
A28CR428	152-0141-02			SEMICOND DVC,DI:SR,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
A28CR500	152-0141-02	B030000		SEMICOND DVC,DI:SR,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
A28CR501	152-0141-02	B030000		SEMICOND DVC,DI:SR,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
A28CR512	152-0141-02			SEMICOND DVC,DI:SR,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
A28L734	108-0782-00			COIL,RF:FIXED,7.07UH	TK1345	108-0782-00
A28L736	108-0785-00			COIL,RF:FIXED,17.1UH	TK1345	108-0785-00
A28Q30	151-0188-00			TRANSISTOR:NPN,SI,TO-92	80009	151-0188-00
A28Q412	151-0189-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0189-00
A28Q514	151-0189-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0189-00
A28Q532	151-0302-00			TRANSISTOR:NPN,SI,TO-18	04713	ST895
A28Q634	151-0220-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0220-00
A28Q904	151-0223-00			TRANSISTOR:NPN,SI,TO-92	04713	SP58026
A28Q922	151-0109-00			TRANSISTOR:NPN,SI,TO-5	04713	SM1107
A28Q948	151-0221-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0221-00
A28Q978	151-0188-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0188-00
A28Q986	151-0133-00			TRANSISTOR:PNP,SI,TO-18	04713	SK3155
A28Q992	151-0232-00			TRANSISTOR:NPN,SI,TO-78	07263	SP12141
A28Q710	151-0190-00			TRANSISTOR:NPN,SI,TO-92	80009	151-0190-00
A28Q716	151-0133-00			TRANSISTOR:PNP,SI,TO-18	04713	SK3155
A28Q722	151-1041-00			TRANSISTOR:FET,N-CHAN,SI,TO-71	04713	SPD1041
A28Q732	151-0188-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0188-00
A28Q778	151-0190-00			TRANSISTOR:NPN,SI,TO-92	80009	151-0190-00
A28Q810	151-0190-00			TRANSISTOR:NPN,SI,TO-92	80009	151-0190-00
A28Q820	151-0188-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0188-00
A28Q832	151-0220-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0220-00
A28Q834	151-0220-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0220-00
A28Q836	151-0223-00			TRANSISTOR:NPN,SI,TO-92	04713	SP58026
A28Q916	151-0223-00			TRANSISTOR:NPN,SI,TO-92	04713	SP58026
A28Q932	151-0220-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0220-00
A28Q934	151-0220-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0220-00
A28Q936	151-0223-00			TRANSISTOR:NPN,SI,TO-92	04713	SP58026
A28R2	311-1245-00			RES,VAR,NONWW:TRMR,10K OHM,0.5W	32997	3386X-DY5-103
A28R9	315-0105-00			RES,FXD,FILM:1M OHM,5%,0.25W	19701	5043CX1M00J
A28R12	315-0223-00			RES,FXD,FILM:22K OHM,5%,0.25W	19701	5043CX22K00J-9Z0
A28R24	315-0103-00			RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10K00J
A28R32	315-0393-00			RES,FXD,FILM:39K OHM,5%,0.25W	57668	NTR25J-E39K0
A28R34	315-0562-00			RES,FXD,FILM:5.6K OHM,5%,0.25W	57668	NTR25J-E5K60
A28R36	315-0561-00			RES,FXD,FILM:560 OHM,5%,0.25W	19701	5043CX560R0J
A28R102	307-0106-00			RES,FXD,CMPSN:4.7 OHM,5%,0.25W	01121	CB 4705
A28R110	315-0512-00			RES,FXD,FILM:5.1K OHM,5%,0.25W	57668	NTR25J-E5K1
A28R112	315-0512-00			RES,FXD,FILM:5.1K OHM,5%,0.25W	57668	NTR25J-E5K1
A28R114	315-0100-00			RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX10R00J
A28R118	315-0101-00			RES,FXD,FILM:100 OHM,5%,0.25W	57668	NTR25J-E 100E
A28R126	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
A28R146	315-0512-00			RES,FXD,FILM:5.1K OHM,5%,0.25W	57668	NTR25J-E05K1
A28R148	315-0682-00			RES,FXD,FILM:6.8K OHM,5%,0.25W	57668	NTR25J-E06K8
A28R208	315-0682-00			RES,FXD,FILM:6.8K OHM,5%,0.25W	57668	NTR25J-E06K8

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A288224	315-0272-00			RES,FXD,FILM:2.7K OHM,5%,0.25M	57668	MTR25J-E27E7
A288318	315-0242-00			RES,FXD,FILM:2.4K OHM,5%,0.25M	57668	MTR25J-E24E4
A288344	321-0238-00			RES,FXD,FILM:2.94K OHM,1%,0.125M,TC=T0	07716	CEA0294O0F
A288345	321-0228-00			RES,FXD,FILM:2.32K OHM,1%,0.125M,TC=T0	19701	5043BDZ432F
A288348	321-0176-00			RES,FXD,FILM:665 OHM,1%,0.125M,TC=T0	07716	CEA0665F0F
A288405	311-1237-00			RES,VAR,NONWW:1K OHM,10%,0.50M	32997	3386X-T10-102
A288412	315-0202-00			RES,FXD,FILM:2K OHM,5%,0.25M	57668	MTR25J-E 2K
A288414	315-0103-00			RES,FXD,FILM:10K OHM,5%,0.25M	19701	5043CX10D00J
A288416	315-0202-00			RES,FXD,FILM:2K OHM,5%,0.25M	57668	MTR25J-E 2K
A288420	315-0471-00			RES,FXD,FILM:470 OHM,5%,0.25M	57668	MTR25J-E470E
A288421	315-0471-00			RES,FXD,FILM:470 OHM,5%,0.25M	57668	MTR25J-E470E
A288422	315-0100-00			RES,FXD,FILM:10 OHM,5%,0.25M	19701	5043CX10R00J
A288424	307-0106-00			RES,FXD,CMPSN:4.7 OHM,5%,0.25M	01121	CB 4705
A288425	315-0302-00			RES,FXD,FILM:3K OHM,5%,0.25M	57668	MTR25J-E03K0
A288426	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25M	57668	MTR25J-E01K0
A288427	315-0153-00	B010100	B070679	RES,FXD,FILM:15K OHM,5%,0.25M	19701	5043CX15K00J
A288427	321-0296-00	B070680		RES,FXD,FILM:11.8K OHM,1%,0.125M,TC=T0	07716	CEA0118O1F
A288429	315-0202-00			RES,FXD,FILM:2K OHM,5%,0.25M	57668	MTR25J-E 2K
A288429	315-0153-00			RES,FXD,FILM:15K OHM,5%,0.25M	19701	5043CX15E00J
A288430	315-0221-00			RES,FXD,FILM:220 OHM,5%,0.25M	57668	MTR25J-E220E
A288432	315-0750-00			RES,FXD,FILM:75 OHM,5%,0.25M	57668	MTR25J-E75C0
A288436	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25M	57668	MTR25JE01K0
A288438	315-0682-00			RES,FXD,FILM:6.8K OHM,5%,0.25M	57668	MTR25J-E6K80
A288440	323-0147-00			RES,FXD,FILM:332 OHM,1%,0.5M,TC=T0	75042	CEC70-3320F
A288442	323-0172-00			RES,FXD,FILM:604 OHM,1%,0.5M,TC=T0	19701	5053RC60R0F
A288446	315-0820-00			RES,FXD,FILM:82 OHM,5%,0.25M	57668	MTR25J-E82E0
A288500	315-0101-00			RES,FXD,FILM:100 OHM,5%,0.25M	57668	MTR25J-E 100E
A288501	315-0472-00	B080000		RES,FXD,FILM:4.7K OHM,5%,0.25M	57668	MTR25J-E04K7
A288502	315-0302-00	B010100	B070679	RES,FXD,FILM:3K OHM,5%,0.25M	57668	MTR25J-E03K0
A288502	321-0238-00	B070680		RES,FXD,FILM:2.94K OHM,1%,0.125M,TC=T0	07716	CEA0294O0F
A288504	311-1198-00			RES,VAR,NONWW:100Ω,25% OHM,0.5M	32997	3386X-T07-200
A288506	321-0226-00			RES,FXD,FILM:2.21K OHM,1%,0.125M,TC=T0	01121	CEA2211F
A288508	321-0242-00			RES,FXD,FILM:3.24K OHM,1%,0.125M,TC=T0	19701	5043ED32K40F
A288510	315-0100-00			RES,FXD,FILM:10 OHM,5%,0.25M	19701	5043CX10R00J
A288512	315-0620-00			RES,FXD,FILM:62 OHM,5%,0.25M	19701	5043CX62R00J
A288514	315-0203-00			RES,FXD,FILM:20K OHM,5%,0.25M	57668	MTR25J-E 20K
A288516	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25M	57668	MTR25JE01K0
A288516	321-0195-00			RES,FXD,FILM:1.05K OHM,1%,0.125M,TC=T0	07716	CEA0105O0F
A288518	321-0304-00			RES,FXD,FILM:14.3K OHM,1%,0.125M,TC=T0	19701	5033E14K30F
A288520	315-0680-00	B010100	B079999	RES,FXD,FILM:68 OHM,5%,0.25M	57668	MTR25J-E68E0
A288520	315-0560-00	B080000		RES,FXD,FILM:56 OHM,5%,0.25M	57668	MTR25J-E56R0
A288521	315-0332-00	B010100	B079999	RES,FXD,FILM:3.3K OHM,5%,0.25M	57668	MTR25J-E03K3
A288521	301-0102-00	B080000		RES,FXD,FILM:1K OHM,5%,0.50M	19701	5053CX1R000J
A288522	315-0152-00			RES,FXD,FILM:1.5K OHM,5%,0.25M	57668	MTR25J-E01K5
A288525	321-0222-00			RES,FXD,FILM:2.00K OHM,1%,0.125M,TC=T0	19701	5033ED2K00F
A288526	315-0100-00			RES,FXD,FILM:10 OHM,5%,0.25M	19701	5043CX10R00J
A288528	321-0193-00			RES,FXD,FILM:1K OHM,1%,0.125M,TC=T0	19701	5033ED1K00F
A288530	315-0472-00			RES,FXD,FILM:4.7K OHM,5%,0.25M	57668	MTR25J-E04K7
A288532	315-0272-00			RES,FXD,FILM:2.7K OHM,5%,0.25M	57668	MTR25J-E02K
A288534	315-0562-00			RES,FXD,FILM:5.6K OHM,5%,0.25M	57668	MTR25J-E
A288536	323-0318-00			RES,FXD,FILM:20.0K OHM,1%,0.5M,TC=T0	91637	MFF1226D20D0
A288538	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25M	57668	MTR25JE01K0
A288600	315-0100-00			RES,FXD,FILM:10 OHM,5%,0.25M	19701	5043CX10R00J
A288604	315-0101-00			RES,FXD,FILM:100 OHM,5%,0.25M	57668	MTR25J-E 100E
A288608	315-0202-00			RES,FXD,FILM:2K OHM,5%,0.25M	57668	MTR25J-E 2K
A288612	315-0223-00			RES,FXD,FILM:22K OHM,5%,0.25M	19701	5043CX22K00J/9ZJ
A288616	321-0231-00			RES,FXD,FILM:2.65K OHM,1%,0.125M,TC=T0	19701	5033ED2K65F
A288618	315-0202-00			RES,FXD,FILM:2K OHM,5%,0.25M	57668	MTR25J-E 2K
A288622	321-0239-00			RES,FXD,FILM:3.01K OHM,1%,0.125M,TC=T0	19701	5043ED3K01F

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Dscont	Name & Description	Mfr. Code	Mfr. Part No.
A2B9624	307-0109-00			RES,FXD,CMPSN:4.7 OHM,5%,0.25W	01121	CB 4705
A2B9625	315-0100-00			RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX10R000J
A2B9628	315-0621-00			RES,FXD,FILM:620 OHM,5%,0.25W	57668	NTR25J-0620E
A2B9630	315-0511-00			RES,FXD,FILM:510 OHM,5%,0.25W	19701	5043CX51R0J
A2B9631	315-0360-00			RES,FXD,FILM:36 OHM,5%,0.25W	19701	5043CX36R0J
A2B9632	321-0327-00			RES,FXD,FILM:24.9K OHM,1%,0.125W,TC=T0	07716	CEA2249O1F
A2B9634	321-0318-00			RES,FXD,FILM:20.0K OHM,1%,0.125W,TC=T0	19701	5033ED2O1COF
A2B9635	311-1245-00			RES,VAR,NONWW:TRMR,10K OHM,0.5W	32997	3386X-0T5-103
A2B9636	321-0327-00			RES,FXD,FILM:24.9K OHM,1%,0.125W,TC=T0	07716	CEA2249O1F
A2B9638	321-0357-00			RES,FXD,FILM:51.1K OHM,1%,0.125W,TC=T0	07716	CEA5111O1F
A2B9642	321-0220-00			RES,FXD,FILM:1.81K OHM,1%,0.125W,TC=T0	19701	5033ED1E81F
A2B9702	315-0510-00			RES,FXD,FILM:51 OHM,5%,0.25W	19701	5043CX51R0J
A2B9704	321-0289-00			RES,FXD,FILM:10.0K OHM,1%,0.125W,TC=T0	19701	5033ED10A0F
A2B9710	315-0242-00			RES,FXD,FILM:2.4K OHM,5%,0.25W	57668	NTR25J-E02K4
A2B9718	315-0153-00			RES,FXD,FILM:15K OHM,5%,0.25W	19701	5043CX15O0J
A2B9722	321-0231-00			RES,FXD,FILM:2.49K OHM,1%,0.125W,TC=T0	19701	5033ED2O49F
A2B9724	315-0563-00			RES,FXD,FILM:56K OHM,5%,0.25W	19701	5043CX56O0J
A2B9726	315-0103-00			RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10O0J
A2B9728	321-0335-00			RES,FXD,FILM:30.1K OHM,1%,0.125W,TC=T0	57668	RN1K7XE30C1
A2B9730	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25J-E01K0
A2B9732	321-0135-00			RES,FXD,FILM:249 OHM,1%,0.125W,TC=T0	07716	CEA2490O1F
A2B9744	321-0059-00			RES,FXD,FILM:49.9 OHM,0.5%,0.125W,TC=T0	91637	CMF55116A49R9F
A2B9800	307-0105-00			RES,FXD,CMPSN:4.7 OHM,5%,0.25W	01121	CB 4705
A2B9803	315-0303-00			RES,FXD,FILM:30K OHM,5%,0.25W	19701	5043CX30O0J
A2B9804	315-0101-00			RES,FXD,FILM:100 OHM,5%,0.25W	57668	NTR25J-E 100E
A2B9806	311-1245-00			RES,VAR,NONWW:TRMR,10K OHM,0.5W	32997	3386X-0T5-103
A2B9808	315-0103-00			RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10O0J
A2B9810	321-0289-00			RES,FXD,FILM:10.0K OHM,1%,0.125W,TC=T0	19701	5033ED10A0F
A2B9812	315-0103-00			RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10O0J
A2B9814	321-0281-00			RES,FXD,FILM:12.4K OHM,1%,0.125W,TC=T0	07716	CEA12401F
A2B9815	321-0239-00			RES,FXD,FILM:3.01K OHM,1%,0.125W,TC=T0	19701	5033ED3C10F
A2B9816	321-0281-00			RES,FXD,FILM:12.4K OHM,1%,0.125W,TC=T0	07716	CEA12401F
A2B9817	321-0239-00			RES,FXD,FILM:3.01K OHM,1%,0.125W,TC=T0	19701	5033ED3C10F
A2B9818	321-0281-00			RES,FXD,FILM:12.4K OHM,1%,0.125W,TC=T0	07716	CEA12401F
A2B9819	321-0239-00			RES,FXD,FILM:3.01K OHM,1%,0.125W,TC=T0	19701	5033ED3C10F
A2B9822	321-0308-00			RES,FXD,FILM:15.0K OHM,1%,0.125W,TC=T0	19701	5033ED15J0F
A2B9824	321-0256-00			RES,FXD,FILM:4.53K OHM,1%,0.125W,TC=T0	19701	5033ED4E53F
A2B9826	321-0241-00			RES,FXD,FILM:3.16K OHM,1%,0.125W,TC=T0	07716	CEA3161OF
A2B9828	321-0241-00			RES,FXD,FILM:3.16K OHM,1%,0.125W,TC=T0	07716	CEA3161OF
A2B9830	321-0256-00			RES,FXD,FILM:4.53K OHM,1%,0.125W,TC=T0	19701	5033ED4E53F
A2B9832	311-1245-00			RES,VAR,NONWW:TRMR,10K OHM,0.5W	32997	3386X-0T5-103
A2B9834	315-0220-00			RES,FXD,FILM:22 OHM,5%,0.25W	19701	5043CX22R0J
A2B9835	321-0291-00			RES,FXD,FILM:2.61K OHM,1%,0.125W,TC=T0	07716	CEA2611OF
A2B9838	321-0356-00			RES,FXD,FILM:49.9K OHM,1%,0.125W,TC=T0	19701	5033ED49K9F
A2B9839	311-1245-00			RES,VAR,NONWW:TRMR,10K OHM,0.5W	32997	3386X-0T5-103
A2B9842	321-0335-00			RES,FXD,FILM:30.1K OHM,1%,0.125W,TC=T0	57668	RN1K7XE30C1
A2B9846	321-0305-00			RES,FXD,FILM:15.0K OHM,1%,0.125W,TC=T0	19701	5033ED15J0F
A2B9900	321-0239-00			RES,FXD,FILM:3.01K OHM,1%,0.125W,TC=T0	19701	5033ED3C10F
A2B9902	315-0153-00			RES,FXD,FILM:15K OHM,5%,0.25W	19701	5043CX15O0J
A2B9904	311-1245-00			RES,VAR,NONWW:TRMR,10K OHM,0.5W	32997	3386X-0T5-103
A2B9906	315-0303-00			RES,FXD,FILM:30K OHM,5%,0.25W	19701	5043CX30O0J
A2B9908	315-0101-00			RES,FXD,FILM:100 OHM,5%,0.25W	57668	NTR25J-E 100E
A2B9912	321-0256-00			RES,FXD,FILM:12.4K OHM,1%,0.125W,TC=T0	07716	CEA12401F
A2B9914	321-0256-00			RES,FXD,FILM:4.53K OHM,1%,0.125W,TC=T0	19701	5033ED4E53F
A2B9918	321-0289-00			RES,FXD,FILM:10.0K OHM,1%,0.125W,TC=T0	19701	5033ED10A0F
A2B9924	321-0305-00			RES,FXD,FILM:15.0K OHM,1%,0.125W,TC=T0	19701	5033ED15J0F
A2B9932	321-0335-00			RES,FXD,FILM:30.1K OHM,1%,0.125W,TC=T0	57668	RN1K7XE30C1
A2B9934	315-0220-00			RES,FXD,FILM:22 OHM,5%,0.25W	19701	5043CX22R0J
A2B9936	321-0291-00			RES,FXD,FILM:2.61K OHM,1%,0.125W,TC=T0	07716	CEA2611OF

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Discont	Name & Description	Mfr. Code	Mfr. Part No.
A29R940	321-0335-00			RES,FXD,FILM:32.1K OHM,1%,0.125W,TC=TO	57668	RN14F8E32K1
A29R942	321-0328-00			RES,FXD,FILM:15.0K OHM,1%,0.125W,TC=TO	19701	5033ED15J03F
A29U14	156-1115-00			MICROCKT,DGTL:CMOS,SYNC GENERATOR	02735	TA9333
A29U20	156-0177-02			MICROCKT,DGTL:DUAL LINE RCVR,SCRN	01295	SN75107BNP3
A29U104	156-0330-02			MICROCKT,DGTL:HEX BUFFER,SCREENED	02735	CD4050BFX
A29U114	156-0846-02			MICROCKT,DGTL:4-BIT BINARY CNTR,SCRN	04713	SN74LS93N05
A29U124	156-0330-02			MICROCKT,DGTL:HEX BUFFER,SCREENED	02735	CD4050BF3
A29U200	156-0385-02			MICROCKT,DGTL:HEX INVERTER	07263	74LS04PCCP
A29U208	156-0405-03			MICROCKT,DGTL:DUAL RETRIG MONOSTABLE MV	18324	N9602(NB OR FB)
A29U210	156-0382-02			MICROCKT,DGTL:QUAD 2 INP NAND GATE BURN	18324	N74LS00AB
A29U218	156-0897-02			MICROCKT,DGTL:DUAL J-K FF,SCRN	04713	SN74LS73N05
A29U220	156-0858-02			MICROCKT,DGTL:DECADE COUNTER,SCRN	01295	SN74LS90AP3
A29U226	156-0388-03			MICROCKT,DGTL:DUAL D FLIP-FLOP	01295	SN74LS74AN3
A29U240	156-0405-03			MICROCKT,DGTL:DUAL RETRIG MONOSTABLE MV	18324	N9602(NB OR FB)
A29U246	156-0535-02			MICROCKT,DGTL:QUAD 2-INP MUX	01295	SN74LS157N3
A29U302	156-0487-02			MICROCKT,DGTL:QUAD 2-INP NAND BFR W/OC OUT	01295	SN74LS38N3
A29U308	156-0846-02			MICROCKT,DGTL:4-BIT BINARY CNTR,SCRN	04713	SN74LS93N05
A29U312	156-0382-02			MICROCKT,DGTL:QUAD 2 INP NAND GATE BURN	18324	N74LS00AB
A29U318	156-0382-02			MICROCKT,DGTL:QUAD 2 INP NAND GATE BURN	18324	N74LS00AB
A29U322	156-0656-02			MICROCKT,DGTL:DECADE COUNTER,SCRN	01295	SN74LS90N3
A29U328	156-0893-02			MICROCKT,DGTL:HEX INV BUFFER	18324	N7416(NB OR FB)
A29U342	156-0388-03			MICROCKT,DGTL:DUAL D FLIP-FLOP	01295	SN74LS74AN3
A29U405	156-0846-02			MICROCKT,DGTL:4-BIT BINARY CNTR,SCRN	04713	SN74LS93N05
A29U530	156-0048-00	B010100	B100904	MICROCKT,LINEAR:5 XSTR ARRAY	02735	CA3046
A29U530	156-0048-02	B100905		MICROCKT,LINEAR:5 XSTR ARRAY,CHECKED	80009	156-0048-02
A29U724	156-0067-00			MICROCKT,LINEAR:OPNL AMPL,SEL	04713	MC1741CP1
A29U816	156-0048-00	B010100	B100904	MICROCKT,LINEAR:5 XSTR ARRAY	02735	CA3046
A29U816	156-0048-02	B100905		MICROCKT,LINEAR:5 XSTR ARRAY,CHECKED	80009	156-0048-02
A29U826	156-0152-00			MICROCKT,LINEAR:DUAL OPNL AMPL	04713	MC1458P1/MC1458U
A29U926	156-0156-00			MICROCKT,LINEAR:DUAL OPNL AMPL	04713	MC1458P1/MC1458U
A29V8120	152-0185-00			SEMICOND DVC,DI:ZEN,SI,10V,5%,0.4W,DO-7	15238	IN4106
* A32	670-4377-01			CIRCUIT BD ASSY:VIDEO PREAMPL	80009	670-4377-01
A32C1946	283-0068-03			CAP,FXD,CER DI:0.01UF,+100-0%,500V	59660	871-5U3E103P
A32C1955	283-0111-03			CAP,FXD,CER DI:0.1UF,20%,50V	05397	C330C104M5U1CA
A32C1956	285-0808-00			CAP,FXD,PLASTIC:0.1UF,10%,50V	04009	EK13-16
A32C1958	290-0717-00			CAP,FXD,ELCTLT:15UF,20%,50V	56289	196D156X0050FE3
A32C1961	281-0557-00			CAP,FXD,CER DI:1.8PF,+/-0.1PF,500V	59660	301-080C1R8D199
A32C1965	290-0534-00			CAP,FXD,ELCTLT:1UF,20%,35V	05397	T368B105M035AS
A32C1971	290-0535-00			CAP,FXD,ELCTLT:10UF,20%,25V TANTALUM	05397	T368B106M025AS
A32C1975	281-0123-00			CAP,VAR,CER DI:5-25PF,100V	59660	518-000S5-ZS
A32C1977	281-0523-00			CAP,FXD,CER DI:100PF,2%,300V	52763	280PL2G07 100PHJ
A32C1981	281-0627-00			CAP,FXD,CER DI:1PF,+/-0.25PF,500V	52763	280PL2G07 1P0CC
A32C1983	281-0512-00			CAP,FXD,CER DI:27PF,+/-2.7PF,500V	52763	280PL2G07 27P0C
A32C1991	290-0521-00			CAP,FXD,ELCTLT:100UF,20%,10V	05397	T368C107M010AS
A32C1993	290-0534-00			CAP,FXD,ELCTLT:1UF,20%,35V	05397	T368B105M035AS
A32C1995	283-0003-00			CAP,FXD,CER DI:0.01UF,+80-20%,150V	59821	0103Z40Z5UJCCEX
A32C1996	290-0534-00			CAP,FXD,ELCTLT:1UF,20%,35V	05397	T368B105M035AS
A32C1997	290-0521-00			CAP,FXD,ELCTLT:100UF,20%,10V	05397	T368C107M010AS
A32C1998	290-0536-00			CAP,FXD,ELCTLT:10UF,20%,25V TANTALUM	05397	T368B106M025AS
A32C1999	290-0536-00			CAP,FXD,ELCTLT:10UF,20%,25V TANTALUM	05397	T368B106M025AS
A32L1997	108-0395-00			COIL,RF:FIXED,84UH	80009	108-0395-00
A32L1999	120-0402-00			XFMR,TOROID:	80009	120-0402-00
A32Q1957	151-1102-00			TRANSISTOR:FET,N-CHANNEL,SI,TO-99	80009	151-1102-00
A32Q1962	151-0190-00			TRANSISTOR:NPN,SI,TO-92	80009	151-0190-00
A32Q1965	151-0188-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0188-00
A32Q1968	151-0188-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0188-00
A32Q1973	151-0193-00			TRANSISTOR:PNP,SI,TO-18	04713	SK3155

* See Chng Info Manual

Component No	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Dscont	Name & Description	Mfr. Code	Mfr. Part No.
A3R1951	151-0193-00			TRANSISTOR:PNP,SI,TO-18	04713	SM3155
A3R1966	321-0103-00			RES,FXD,FILM:10K OHM,1%,0.5W	19701	5053CR10K00J
A3R1967	321-0093-00			RES,FXD,FILM:49.9 OHM,0.5%,0.125W,TC=T0	91637	CMF55116G49R9DF
A3R1968	321-0375-00			RES,FXD,FILM:80.6K OHM,1%,0.125W,TC=T0	19701	5043ED80K60F
A3R1969	321-0317-00			RES,FXD,FILM:19.6K OHM,1%,0.125W,TC=T0	07716	CEA219601F
A3R1952	311-1258-00			RES,VAR,NONWW:TRMR,10K OHM,0.5W	32997	3329P-LS8-103
A3R1953	315-0105-00			RES,FXD,FILM:1M OHM,5%,0.25W	19701	5043CX1M000J
A3R1955	315-0565-00			RES,FXD,CMPSN:5.6M OHM,10%,0.25W	01121	CB5651
A3R1956	315-0475-00			RES,FXD,FILM:4.7M OHM,5%,0.25W	01121	CB4755
A3R1957	313-0031-00			RES,FXD,FILM:1M OHM,1%,0.25W	91637	DC1423-10003F
* A3R1958	301-0241-00			RES,FXD,FILM:240 OHM,5%,0.5W	01121	EB2415
* A3R1959	308-0553-00			RES,FXD,WW:680 OHM,1%,3W,TC=200PPM	05347	M53 680 F
A3R1961	315-0203-00			RES,FXD,FILM:20K OHM,5%,0.25W	57668	MTR25J-E 20K
A3R1963	315-0204-00			RES,FXD,FILM:200K OHM,5%,0.25W	19701	5043EX200KJ
A3R1965	315-0332-00			RES,FXD,FILM:3.3K OHM,5%,0.25W	57668	MTR25J-E33K3
A3R1968	315-0163-00			RES,FXD,FILM:16K OHM,5%,0.25W	57668	MTR25J-E 16K
A3R1971	315-0100-00			RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX10R00J
A3R1972	311-1259-00			RES,VAR,NONWW:TRMR,100 OHM,0.5W	32997	3329P-LS8-101
A3R1973	315-0101-00			RES,FXD,FILM:100 OHM,5%,0.25W	57668	MTR25J-E 100E
A3R1975	315-0202-00			RES,FXD,FILM:2K OHM,5%,0.25W	57668	MTR25J-E 2K
A3R1976	321-0222-00			RES,FXD,FILM:2.000K OHM,1%,0.125W,TC=T0	19701	5033ED2K00F
A3R1977	311-1253-00			RES,VAR,NONWW:1K OHM,10%,0.50W	32997	3329P-LS8-102
A3R1979	311-1228-00			RES,VAR,NONWW:10KΩ,10%,0.5W	32997	3386F-T04-103
A3R1980	321-0306-00			RES,FXD,FILM:15.0K OHM,1%,0.125W,TC=T0	19701	5033ED15J00F
A3R1981	321-0289-00			RES,FXD,FILM:10.0K OHM,1%,0.125W,TC=T0	19701	5033ED10K00F
A3R1983	315-0220-00			RES,FXD,FILM:22 OHM,5%,0.25W	19701	5043CX22R00J
A3R1985	315-0510-00			RES,FXD,FILM:51 OHM,5%,0.25W	19701	5043CX51R00J
A3R1986	315-0122-00			RES,FXD,FILM:1.2K OHM,5%,0.25W	57668	MTR25J-E01K2
A3R1989	315-0222-00			RES,FXD,FILM:2.2K OHM,5%,0.25W	57668	MTR25J-E02K2
A3R1992	301-0751-00			RES,FXD,FILM:750 OHM,5%,0.5W	19701	5053CR750RJ
A3R1993	315-0100-00			RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX10R00J
A3R1994	321-0125-00			RES,FXD,FILM:196 OHM,1%,0.125W, TC=T0	07716	CEA196R0F
A3R1995	315-0100-00			RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX10R00J
A3R1997	315-0330-00			RES,FXD,FILM:33 OHM,5%,0.25W	19701	5043CX33R00J
A3R1998	315-0100-00			RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX10R00J
A3U1883	156-0098-00	B010100	B100334	MICROCKT,LINEAR:5 XSTR BRDGY	02735	CA3046-17
A3U1883	156-0098-02	B100335		MICROCKT,LINEAR:5 XSTR BRDGY,CHECKED	80009	156-0098-02
A34	670-1630-03	B010100	B011270	CIRCUIT BD ASSY:VERTICAL AMPLIFIER	80009	670-1630-03
A34	670-1630-05	B011271		CIRCUIT BD ASSY:VERTICAL AMP	80009	670-1630-05
A34C857	283-0186-00			CAP,FXD,CER DI:2.5PF,0.5%,50V	51642	100-050-NP0-2568
A34C858	281-0218-00			CAP,VAR,CER DI:1-5PF,+2 -2.5%,100V	59660	513-01101-5
A34C859	283-0186-00			CAP,FXD,CER DI:2.5PF,0.5%,50V	51642	100-050-NP0-2568
A34C862	281-0603-00			CAP,FXD,CER DI:39PF,5%,500V	52763	290PL1007 39P0J0
A34C863	281-0603-00			CAP,FXD,CER DI:39PF,5%,500V	52763	290PL1007 39P0J0
A34C870	281-0543-00			CAP,FXD,CER DI:270PF,10%,500V	52763	290PL1007 271P0K
A34C872	281-0543-00			CAP,FXD,CER DI:270PF,10%,500V	52763	290PL1007 271P0K
A34C875	283-0160-00			CAP,FXD,CER DI:1.5PF,+/-0.1PF,50V	51642	100050NP01598
A34C876	283-0181-00			CAP,FXD,CER DI:1.8PF,+/-0.1%,100V	51642	100 100NP01898
A34C880	283-0181-00			CAP,FXD,CER DI:1.8PF,+/-0.1%,100V	51642	100 100NP01898
A34C881	283-0160-00			CAP,FXD,CER DI:1.5PF,+/-0.1PF,50V	51642	100050NP01598
A34C885	281-0543-00			CAP,FXD,CER DI:270PF,10%,500V	52763	290PL1007 271P0K
A34C889	281-0543-00			CAP,FXD,CER DI:270PF,10%,500V	52763	290PL1007 271P0K
A34C733	283-0160-00			CAP,FXD,CER DI:1.5PF,+/-0.1PF,50V	51642	100050NP01598
A34C734	283-0181-00			CAP,FXD,CER DI:1.8PF,+/-0.1%,100V	51642	100 100NP01898
A34C736	283-0160-00			CAP,FXD,CER DI:1.5PF,+/-0.1PF,50V	51642	100050NP01598
A34C738	283-0181-00			CAP,FXD,CER DI:1.8PF,+/-0.1%,100V	51642	100 100NP01898
A34C739	283-0160-00			CAP,FXD,CER DI:1.5PF,+/-0.1PF,50V	51642	100050NP01598

* See Chng Info M120187

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Dscont	Name & Description	Mfr. Code	Mfr. Part No.
A34C743	283-0129-00			CAP,FXD,CER DI:100PF,5%,500V	56660	BP1-5381ZN101J
A34C745	283-0119-00			CAP,FXD,CER DI:1500PF,5%,200V	56660	805-534-Y5U0152J
A34C747	283-0228-00			CAP,FXD,CER DI:0.022UF,10%,50V	04222	3439-2500-2230
A34C749	283-0203-00			CAP,FXD,CER DI:0.47UF,20%,50V	04222	SR305E474M0A
A34C751	281-0214-00			CAP,VAR,CER DI:0.6-3PF,400V	52763	313813-140
A34C758	283-0128-00			CAP,FXD,CER DI:220PF,10%,200V	31433	C320C221K2G5CA
A34C760	283-0180-00			CAP,FXD,CER DI:5600PF,20%,200V	04222	3429 200E 562M
A34C762	283-0211-00			CAP,FXD,CER DI:0.1UF,10%,200V	04222	SR40EC104KAA
A34C764	283-0212-00			CAP,FXD,CER DI:2UF,20%,50V	04222	SR305E205MAA
A34C770	283-0001-00			CAP,FXD,CER DI:0.005UF,+100-0%,500V	59821	2DDH61L502P
A34C787	283-0001-00			CAP,FXD,CER DI:0.005UF,+100-0%,500V	59821	2DDH61L502P
A34C789	283-0001-00			CAP,FXD,CER DI:0.005UF,+100-0%,500V	59821	2DDH61L502P
A34C791	283-0001-00			CAP,FXD,CER DI:0.005UF,+100-0%,500V	59821	2DDH61L502P
A34C794	283-0001-00			CAP,FXD,CER DI:0.005UF,+100-0%,500V	59821	2DDH61L502P
A34C796	283-0001-00			CAP,FXD,CER DI:0.005UF,+100-0%,500V	59821	2DDH61L502P
A34C798	283-0001-00			CAP,FXD,CER DI:0.005UF,+100-0%,500V	59821	2DDH61L502P
A34L660	108-0369-00			COIL,RF:FIXED,*20MH	80009	108-0369-00
A34L661	108-0369-00			COIL,RF:FIXED,*20MH	80009	108-0369-00
A34L667	114-0222-00			COIL,RF:VARIABLE,2-6UH	80009	114-0222-00
A34L751	108-0325-00			COIL,RF:FIXED,480NH	TK2042	ORDER BY DESCR
A34L754	108-0325-00			COIL,RF:FIXED,480NH	TK2042	ORDER BY DESCR
A34L756	108-0325-00			COIL,RF:FIXED,480NH	TK2042	ORDER BY DESCR
A34L758	108-0325-00			COIL,RF:FIXED,480NH	TK2042	ORDER BY DESCR
A34L8707	108-0330-00			COIL,RF:FIXED,460NH	TK2042	ORDER BY DESCR
A34L8709	108-0325-00			COIL,RF:FIXED,480NH	TK2042	ORDER BY DESCR
A34L8791	108-0325-00			COIL,RF:FIXED,480NH	TK2042	ORDER BY DESCR
A34L8794	108-0325-00			COIL,RF:FIXED,480NH	TK2042	ORDER BY DESCR
A34L8795	108-0325-00			COIL,RF:FIXED,480NH	TK2042	ORDER BY DESCR
A34L8798	108-0325-00			COIL,RF:FIXED,480NH	TK2042	ORDER BY DESCR
A34Q694	151-0190-00			TRANSISTOR:NPN,SI,TO-92	80009	151-0190-00
A34Q698	151-0190-00			TRANSISTOR:NPN,SI,TO-92	80009	151-0190-00
A34Q705	151-0190-00			TRANSISTOR:NPN,SI,TO-92	80009	151-0190-00
A34Q711	151-0188-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0188-00
A34Q718	151-0188-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0188-00
A34Q723	151-0302-00			TRANSISTOR:NPN,SI,TO-18	04713	ST899
A34Q728	151-0302-00			TRANSISTOR:NPN,SI,TO-18	04713	ST899
A34Q773	151-0302-00			TRANSISTOR:NPN,SI,TO-18	04713	ST899
A34Q778	151-0188-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0188-00
A34Q785	151-0390-00			TRANSISTOR:NPN,SI,X-81	04713	SPS8814DBMPS945
A34Q786	151-0126-00			TRANSISTOR:NPN,SI,TO-18	04713	ST1046
A34R657	317-0270-00			RES,FXD,CMPSN:27 OHM,5%,0.125W	01121	BB2705
A34R658	311-0865-00			RES,VAR,NONWW:TRMR,200 OHM,0.5W	32997	3329H-CAB-201
A34R659	317-0270-00			RES,FXD,CMPSN:27 OHM,5%,0.125W	01121	BB2705
A34R660	324-0114-00			RES,FXD,FILM:150 OHM,1%,1W,TC=T0	91637	MFF1141505DF
A34R661	324-0114-00			RES,FXD,FILM:150 OHM,1%,1W,TC=T0	91637	MFF1141505DF
A34R662	321-0039-00			RES,FXD,FILM:24.9 OHM,1%,0.125W,TC=T0	91637	CMF5511602A99DF
A34R663	321-0039-00			RES,FXD,FILM:24.9 OHM,1%,0.125W,TC=T0	91637	CMF5511602A99DF
A34R667	315-0911-00			RES,FXD,FILM:910 OHM,5%,0.25W	57668	NTR25J-E910C
A34R668	315-0911-00			RES,FXD,FILM:910 OHM,5%,0.25W	57668	NTR25J-E910C
A34R670	317-0047-00			RES,FXD,CMPSN:4.7 OHM,5%,0.125W	01121	BB4705
A34R672	317-0047-00			RES,FXD,CMPSN:4.7 OHM,5%,0.125W	01121	BB4705
A34R675	317-0101-00			RES,FXD,CMPSN:100 OHM,5%,0.125W	01121	BB1015
A34R677	323-0099-00			RES,FXD,FILM:51.1 OHM,1%,0.5W,TC=T0	19701	5053R051R10F
A34R679	323-0099-00			RES,FXD,FILM:51.1 OHM,1%,0.5W,TC=T0	19701	5053R051R10F
A34R680	317-0101-00			RES,FXD,CMPSN:100 OHM,5%,0.125W	01121	BB1015
A34R682	323-0121-00			RES,FXD,FILM:178 OHM,1%,0.5W,TC=T0	19701	5053R0178R0F
A34R684	317-0511-00			RES,FXD,CMPSN:510 OHM,5%,0.125W	01121	BB5115
A34R685	315-0820-00			RES,FXD,FILM:82 OHM,5%,0.25W	57668	NTR25J-E82R0
A34R686	315-0820-00			RES,FXD,FILM:82 OHM,5%,0.25W	57668	NTR25J-E82R0

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Descnt	Name & Description	Mfr. Code	Mfr. Part No.
R348688	317-0511-00			RES,FXD,CMPSN:510 OHM,5%,0.125W	01121	BB5115
R348689	323-0121-00			RES,FXD,FILM:178 OHM,1%,0.5W,TC=T0	19701	5033D178R0F
R348691	321-0088-00			RES,FXD,FILM:49.9 OHM,0.5%,0.125W,TC=T0	91637	CMF551166499D0F
R348693	321-0126-00			RES,FXD,FILM:200 OHM,1%,0.125W,TC=T0	19701	5033ED200R0F
R348695	315-0911-00			RES,FXD,FILM:910 OHM,5%,0.25W	57668	NTR25J-E910E
R348695	321-0058-00			RES,FXD,FILM:39.2 OHM,0.5%,0.125W,TC=T0	91637	CMF551160339F0F
R348697	321-0058-00			RES,FXD,FILM:39.2 OHM,0.5%,0.125W,TC=T0	91637	CMF551160339F0F
R348698	315-0510-00			RES,FXD,FILM:51 OHM,5%,0.25W	19701	5043CX51R0DJ
R348700	315-0911-00			RES,FXD,FILM:910 OHM,5%,0.25W	57668	NTR25J-E910E
R348701	321-0126-00			RES,FXD,FILM:200 OHM,1%,0.125W,TC=T0	19701	5033ED200R0F
R348703	315-0303-00			RES,FXD,FILM:30K OHM,5%,0.25W	19701	5043CX30R0DJ
R348704	315-0521-00			RES,FXD,FILM:520 OHM,5%,0.25W	57668	NTR25J-E520E
R348705	321-0257-00			RES,FXD,FILM:2.87K OHM,1%,0.125W,TC=T0	07716	CEA0 2870F
R348707	311-0622-01			RES,VAR,NONWW:TRMR,100 OHM,0.5W	32997	3329H-X20-101
R348708	321-0114-00			RES,FXD,FILM:150 OHM,1%,0.125 W,TC=T0	19701	5033ED150R0F
R348708	321-0114-00			RES,FXD,FILM:150 OHM,1%,0.125 W,TC=T0	19701	5033ED150R0F
R348711	321-0201-00			RES,FXD,FILM:1.21K OHM,1%,0.125W,TC=T0	19701	5043ED1K21F
R348712	311-0502-00			RES,VAR,NM:TRMR,1.5K OHM,1M	75042	100-0000-152
R348713	321-0201-00			RES,FXD,FILM:1.21K OHM,1%,0.125W,TC=T0	19701	5043ED1K21F
R348715	321-0123-00			RES,FXD,FILM:167 OHM,1%,0.125W, TC=T0	07716	CEA0167R0F
R348717	315-0301-00			RES,FXD,FILM:300 OHM,5%,0.25W	57668	NTR25J-E300E
R348718	321-0126-00			RES,FXD,FILM:200 OHM,1%,0.125W,TC=T0	19701	5033ED200R0F
R348719	321-0191-00			RES,FXD,FILM:953 OHM,1%,0.125W,TC=T0	07716	CEA0953R0F
R348721	315-0501-00			RES,FXD,FILM:500 OHM,5%,0.25W	57668	NTR25J-E500E
R348722	321-0117-00			RES,FXD,FILM:162 OHM,1%,0.125W,TC=T0	07716	CEA0162R0F
R348724	323-0187-00			RES,FXD,FILM:332 OHM,1%,0.5W,TC=T0	75042	CEC10-3320F
R348725	323-0187-00			RES,FXD,FILM:332 OHM,1%,0.5W,TC=T0	75042	CEC10-3320F
R348726	323-0096-00			RES,FXD,FILM:84.5 OHM,1%,0.5W,TC=T0	91637	CMF551166R4F00F
R348727	321-0058-00			RES,FXD,FILM:37.4 OHM,0.5%,0.125W,TC=T0	91637	CMF551166R37F0F
R348730	311-1258-00			RES,VAR,NONWW:TRMR,100 OHM,0.5W	32997	3329P-L58-101
R348732	317-0470-00			RES,FXD,CMPSN:47 OHM,5%,0.125W	01121	BB4705
R348733	317-0470-00			RES,FXD,CMPSN:47 OHM,5%,0.125W	01121	BB4705
R348734	317-0101-00			RES,FXD,CMPSN:100 OHM,5%,0.125W	01121	BB1015
R348735	323-0069-00			RES,FXD,FILM:51.1 OHM,1%,0.5W,TC=T0	19701	5033D51R1F
R348736	317-0101-00			RES,FXD,CMPSN:100 OHM,5%,0.125W	01121	BB1015
R348737	323-0069-00			RES,FXD,FILM:51.1 OHM,1%,0.5W,TC=T0	19701	5033D51R1F
R348738	317-0101-00			RES,FXD,CMPSN:100 OHM,5%,0.125W	01121	BB1015
R348741	317-0161-00			RES,FXD,CMPSN:160 OHM,5%,0.125W (NOMINAL VALUE, SELECTED) (FURNISHED AS A UNIT WITH R348745)	01121	BB1615
R348743	311-1261-00			RES,VAR,NONWW:TRMR,500 OHM,0.5W	32997	3329P-L58-501
R348745	315-0561-00			RES,FXD,FILM:560 OHM,5%,0.25W	19701	5043CX560R0J
R348747	315-0471-00			RES,FXD,FILM:470 OHM,5%,0.25W	57668	NTR25J-E470E
R348749	311-0635-00			RES,VAR,NONWW:TRMR,1K OHM,0.5W	32997	3329W-040-102
R348751	311-1265-00			RES,VAR,NONWW:TRMR,2K OHM,0.5W	32997	3329P-L58-202
R348753	323-0097-00			RES,FXD,FILM:100 OHM,1%,0.5W,TC=T0	91637	CMF551/4G100R0F
R348754	323-0097-00			RES,FXD,FILM:100 OHM,1%,0.5W,TC=T0	91637	CMF551/4G100R0F
R348756	317-0161-00			RES,FXD,CMPSN:160 OHM,5%,0.125W (NOMINAL VALUE, SELECTED) (FURNISHED AS A UNIT WITH R348745)	01121	BB1615
R348758	311-1261-00			RES,VAR,NONWW:TRMR,500 OHM,0.5W	32997	3329P-L58-501
R348760	315-0751-00			RES,FXD,FILM:750 OHM,5%,0.25W	57668	NTR25J-E750E
R348762	315-0471-00			RES,FXD,FILM:470 OHM,5%,0.25W	57668	NTR25J-E470E
R348764	311-1265-00			RES,VAR,NONWW:TRMR,2K OHM,0.5W	32997	3329P-L58-202
R348767	323-0097-00			RES,FXD,FILM:100 OHM,1%,0.5W,TC=T0	91637	CMF551/4G100R0F
R348768	323-0097-00			RES,FXD,FILM:100 OHM,1%,0.5W,TC=T0	91637	CMF551/4G100R0F
R348770	308-0692-00			RES,FXD,WW:44 OHM,1%,3W	00213	124ES 44 OHM 1
R348771	323-0112-00	8810100	8111270	RES,FXD,FILM:143 OHM,1%,0.5W,TC=T0	19701	5033D143R0F
R348771	323-0119-00	8111271		RES,FXD,FILM:169 OHM,1%,0.5W,TC=T0	75042	CEC10-1690F

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Discont	Name & Description	Mfr. Code	Mfr. Part No.
A34R775	315-0182-00			RES,FXD,FILM:1.8K OHM,5%,0.25W	57668	NTR25J-E1K8
A34R778	315-0471-00			RES,FXD,FILM:470 OHM,5%,0.25W	57668	NTR25J-E470E
A34R783	321-0324-00			RES,FXD,FILM:23.2K OHM,1%,0.125W,TC=T0	07716	CEA0232G1F
A34R784	321-0289-00			RES,FXD,FILM:10.0K OHM,1%,0.125W,TC=T0	19701	5033ED10K0F
A34R785	315-0472-00			RES,FXD,FILM:4.7K OHM,5%,0.25W	57668	NTR25J-E4K7
A34R786	315-0362-00			RES,FXD,FILM:3.6K OHM,5%,0.25W	19701	5043CF3K60J
A34R789	315-0362-00			RES,FXD,FILM:3.6K OHM,5%,0.25W	19701	5043CF3K60J
A34R790	323-0084-00			RES,FXD,FILM:45.3 OHM,1%,0.5W,TC=T0	07716	CEC0345R3F
A34R792	323-0084-00			RES,FXD,FILM:45.3 OHM,1%,0.5W,TC=T0	07716	CEC0345R3F
A34R795	323-0077-00			RES,FXD,FILM:31.9 OHM,1%,0.5W,TC=T0	75042	CECTD-31R9F
A34R796	323-0163-00			RES,FXD,FILM:301 OHM,1%,0.5W,TC=T0	19701	5053R0300F
A34R797	321-0063-00			RES,FXD,FILM:44.2 OHM,0.5%,0.125W,TC=T0	91637	CMF55 1/8C44R20F
A34R799	308-0248-00			RES,FXD,WW:150 OHM,1%,5W	83777	BL50-150R0
A34RT731	307-0064-00			RES,THERMOL:50 OHM,5%,0.125W	01295	TR 1/8 50Ω
A34U695	155-0059-00			MICROCKT,LINEAR:HF AMPLIFIER	80009	155-0059-00
A34U745	155-0064-00			MICROCKT,LINEAR:OUTPUT AMPL	80009	155-0064-00
A38	670-5143-00	B010100	B100774	CIRCUIT BD ASSY:SCAN AMP & READING GEN	80009	670-5143-00
A38	670-5143-01	B100775		CIRCUIT BD ASSY:SCAN AMPL & READING GEN	80009	670-5143-01
A38C12	281-0158-00			CAP,VAR,CER DI:7-45PF,25V	59660	518-006 0 7-45
A38C32	283-0128-00			CAP,FXD,CER DI:100PF,5%,500V	59660	871-5301201J
A38C116	283-0808-00	B010100	B100774	CAP,FXD,CER DI:0.1UF,20%,50V	51642	500-500-X7R-104M
A38C116	283-0414-00	B100775		CAP,FXD,CER DI:0.022UF,20%,500V	51642	300-5003X7R223M
A38C122	283-0808-00	B010100	B100774	CAP,FXD,CER DI:0.1UF,20%,50V	51642	500-500-X7R-104M
A38C122	283-0414-00	B100775		CAP,FXD,CER DI:0.022UF,20%,500V	51642	300-5003X7R223M
A38C126	283-0000-00	B010100	B100774	CAP,FXD,CER DI:0.1UF,20%,500V	51642	500-500-X7R-104M
A38C126	283-0414-00	B100775		CAP,FXD,CER DI:0.022UF,20%,500V	51642	300-5003X7R223M
A38C136	283-0000-00	B010100	B100774	CAP,FXD,CER DI:0.1UF,20%,500V	51642	500-500-X7R-104M
A38C136	283-0414-00	B100775		CAP,FXD,CER DI:0.022UF,20%,500V	51642	300-5003X7R223M
A38C208	283-0079-00			CAP,FXD,CER DI:0.01UF,20%,250V	04222	SR503C103MAA
A38C222	283-0079-00			CAP,FXD,CER DI:0.01UF,20%,250V	04222	SR503C103MAA
A38C228	283-0079-00			CAP,FXD,CER DI:0.01UF,20%,250V	04222	SR503C103MAA
A38C242	283-0079-00			CAP,FXD,CER DI:0.01UF,20%,250V	04222	SR503C103MAA
A38C308	283-0079-00			CAP,FXD,CER DI:0.01UF,20%,250V	04222	SR503C103MAA
A38C318	283-0079-00			CAP,FXD,CER DI:0.01UF,20%,250V	04222	SR503C103MAA
A38C332	283-0079-00			CAP,FXD,CER DI:0.01UF,20%,250V	04222	SR503C103MAA
A38C338	283-0079-00			CAP,FXD,CER DI:0.01UF,20%,250V	04222	SR503C103MAA
A38C410	283-0187-00			CAP,FXD,CER DI:0.047UF,10%,400V	04222	SR308C473KAA
A38C412	283-0111-00			CAP,FXD,CER DI:0.1UF,20%,50V	05397	C330C104M5U1CA
A38C413	283-0003-00			CAP,FXD,CER DI:0.01UF,+80-20%,150V	59821	0103Z402SUADCER
A38C414	290-0535-00			CAP,FXD,ELCTLT:10UF,20%,25V TANTALUM	05397	T368B106M025AS
A38C415	283-0000-00	B010100	B100774	CAP,FXD,CER DI:0.1UF,20%,500V	51642	500-500-X7R-104M
A38C415	283-0414-00	B100775		CAP,FXD,CER DI:0.022UF,20%,500V	51642	300-5003X7R223M
A38C416	290-0535-00			CAP,FXD,ELCTLT:10UF,20%,25V TANTALUM	05397	T368B106M025AS
A38C417	283-0187-00			CAP,FXD,CER DI:0.047UF,10%,400V	04222	SR308C473KAA
A38C418	283-0111-00			CAP,FXD,CER DI:0.1UF,20%,50V	05397	C330C104M5U1CA
A38C430	283-0187-00			CAP,FXD,CER DI:0.047UF,10%,400V	04222	SR308C473KAA
A38C432	283-0003-00			CAP,FXD,CER DI:0.01UF,+80-20%,150V	59821	0103Z402SUADCER
A38C434	290-0535-00			CAP,FXD,ELCTLT:10UF,20%,25V TANTALUM	05397	T368B106M025AS
A38C436	283-0000-00	B010100	B100774	CAP,FXD,CER DI:0.1UF,20%,500V	51642	500-500-X7R-104M
A38C436	283-0414-00	B100775		CAP,FXD,CER DI:0.022UF,20%,500V	51642	300-5003X7R223M
A38C438	290-0535-00			CAP,FXD,ELCTLT:10UF,20%,25V TANTALUM	05397	T368B106M025AS
A38C439	283-0187-00			CAP,FXD,CER DI:0.047UF,10%,400V	04222	SR308C473KAA
A38C540	283-0111-00			CAP,FXD,CER DI:0.1UF,20%,50V	05397	C330C104M5U1CA
A38C542	283-0111-00			CAP,FXD,CER DI:0.1UF,20%,50V	05397	C330C104M5U1CA
A38C546	283-0177-00			CAP,FXD,CER DI:1UF,+80-20%,25V	04222	SR302E105ZAATR
A38C604	290-0387-00			CAP,FXD,ELCTLT:1UF,+50-10%,450V	56289	340D105F450DD4
A38C618	283-0211-00			CAP,FXD,CER DI:0.1UF,10%,200V	04222	SR405C104KAA

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Dscont	Name & Description	Mfr. Code	Mfr. Part No.
A38C520	283-0211-00			CAP,FXD,CER DI:0.1UF,10%,200V	04222	SR40SC104KAA
A38C522	283-0211-00			CAP,FXD,CER DI:0.1UF,10%,200V	04222	SR40SC104KAA
A38C524	283-0211-00			CAP,FXD,CER DI:0.1UF,10%,200V	04222	SR40SC104KAA
A38C526	283-0211-00			CAP,FXD,CER DI:0.1UF,10%,200V	04222	SR40SC104KAA
A38C528	283-0211-00			CAP,FXD,CER DI:0.1UF,10%,200V	04222	SR40SC104KAA
A38C708	283-0003-00			CAP,FXD,CER DI:0.01UF,+80-20%,150V	59821	D101240E5AAJDCEX
A38C710	281-0823-00			CAP,FXD,CER DI:39PF,5%,500V	52763	2RBFLJ007 39PDCC
A38C714	283-0803-00			CAP,FXD,CER DI:0.01UF,+80-20%,150V	59821	D101240E5AJDCEX
A38C716	283-0178-00			CAP,FXD,CER DI:0.1UF,+80-20%,100V	05397	C330C104Z1U1CA
A38C720	283-0178-00			CAP,FXD,CER DI:0.1UF,+80-20%,100V	05397	C330C104Z1U1CA
A38C721	283-0178-00			CAP,FXD,CER DI:0.1UF,+80-20%,100V	05397	C330C104Z1U1CA
A38C722	283-0178-00			CAP,FXD,CER DI:0.1UF,+80-20%,100V	05397	C330C104Z1U1CA
A38C726	283-0178-00			CAP,FXD,CER DI:0.1UF,+80-20%,100V	05397	C330C104Z1U1CA
A38C728	283-0178-00			CAP,FXD,CER DI:0.1UF,+80-20%,100V	05397	C330C104Z1U1CA
A38C729	283-0178-00			CAP,FXD,CER DI:0.1UF,+80-20%,100V	05397	C330C104Z1U1CA
A38C730	283-0178-00			CAP,FXD,CER DI:0.1UF,+80-20%,100V	05397	C330C104Z1U1CA
A38C736	281-0524-00			CAP,FXD,CER DI:150PF,+/-30PF,500V	52763	2RBFLJ007 150PWD
A38C745	283-0177-00			CAP,FXD,CER DI:1UF,+80-20%,25V	04222	SR322E105Z5ATR
A38C802	283-0110-00			CAP,FXD,CER DI:0.05UF,+80-20%,150V	59660	855-547-E-5022
A38C825	281-0604-00			CAP,FXD,CER DI:100PF,+/-1PF,500V	54583	TCC20CH241G0FV3
A38C833	283-0004-00			CAP,FXD,CER DI:0.02UF,+80-20%,150V	59660	855-568Z5V2D203Z
A38C836	283-0211-00			CAP,FXD,CER DI:0.1UF,10%,200V	04222	SR40SC104KAA
A38C844	283-0126-00			CAP,FXD,CER DI:100PF,5%,500V	59660	871-5307ZN101J
A38C902	283-0003-00			CAP,FXD,CER DI:0.01UF,+80-20%,150V	59821	D101240E5AJDCEX
A38C910	290-0415-00			CAP,FXD,ELCTLT:5.6UF,10%,35V	12954	ST5135B5A6035
A38C932	281-0559-00			CAP,FXD,CER DI:8.9PF,+/-0.25PF,500V	52763	2RBFLJ007 8P9DCC
A38CR808	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	042527 (1N4152)
A38CR822	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	042527 (1N4152)
A38CR829	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	042527 (1N4152)
A38CR842	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	042527 (1N4152)
A38CR838	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	042527 (1N4152)
A38CR840	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	042527 (1N4152)
A38CR842	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	042527 (1N4152)
A38CR844	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	042527 (1N4152)
A38CR846	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	042527 (1N4152)
A38CR847	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	042527 (1N4152)
A38CR848	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	042527 (1N4152)
A38CR849	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	042527 (1N4152)
A38CR706	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	042527 (1N4152)
A38CR712	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	042527 (1N4152)
A38CR938	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	042527 (1N4152)
A38CR934	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	042527 (1N4152)
A38CR936	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	042527 (1N4152)
A38CR946	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	042527 (1N4152)
A38L0200	108-0762-00			COIL,RF:FIXED,16UH	TK1345	108-0762-00
A38L0218	108-0762-00			COIL,RF:FIXED,16UH	TK1345	108-0762-00
A38L0230	108-0762-00			COIL,RF:FIXED,16UH	TK1345	108-0762-00
A38L0240	108-0762-00			COIL,RF:FIXED,16UH	TK1345	108-0762-00
A38Q210	151-0280-00			TRANSISTOR:PNP,SI,TO-39	04713	SS8055
A38Q212	151-0232-00			TRANSISTOR:NPN,SI,TO-78	07263	SP12141
A38Q218	151-0232-00			TRANSISTOR:NPN,SI,TO-78	07263	SP12141
A38Q232	151-0280-00			TRANSISTOR:PNP,SI,TO-39	04713	SS8055
A38Q234	151-0232-00			TRANSISTOR:NPN,SI,TO-78	07263	SP12141
A38Q236	151-0232-00			TRANSISTOR:NPN,SI,TO-78	07263	SP12141
A38Q238	151-0280-00			TRANSISTOR:PNP,SI,TO-39	04713	SS8055
A38Q604	151-0387-00			TRANSISTOR:NPN,SI,X-55	04713	SPS 0811
A38Q606	151-0220-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0220-00
A38Q608	151-0279-00			TRANSISTOR:SELECTED	04713	SS2821

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Descnt	Name & Description	Mfr. Code	Mfr. Part No.
A3B0414	151-0279-00			TRANSISTOR:SELECTED	04713	SS2821
A3B0416	151-0367-00			TRANSISTOR:NPN,SI,X-55	04713	SPS 8811
A3B0418	151-0220-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0220-00
A3B0424	151-0367-00			TRANSISTOR:NPN,SI,X-55	04713	SPS 8811
A3B0426	151-0220-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0220-00
A3B0428	151-0279-00			TRANSISTOR:SELECTED	04713	SS2821
A3B0438	151-0279-00			TRANSISTOR:SELECTED	04713	SS2821
A3B0440	151-0367-00			TRANSISTOR:NPN,SI,X-55	04713	SPS 8811
A3B0442	151-0220-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0220-00
A3B0548	151-0301-00			TRANSISTOR:PNP,SI,TO-18	04713	ST898
A3B0548	151-0302-00			TRANSISTOR:NPN,SI,TO-18	04713	ST899
A3B0704	151-0136-00			TRANSISTOR:NPN,SI,TO-39	02735	30495
A3B0716	151-0279-00			TRANSISTOR:SELECTED	04713	SS2821
A3B0746	151-0301-00			TRANSISTOR:PNP,SI,TO-18	04713	ST898
A3B0814	151-0232-00			TRANSISTOR:NPN,SI,TO-75	07263	SP12141
A3B0834	151-0347-00			TRANSISTOR:NPN,SI,TO-92	04713	SPS7651
A3B0846	151-0302-00			TRANSISTOR:NPN,SI,TO-18	04713	ST899
A3B0848	151-0350-00			TRANSISTOR:PNP,SI,TO-92	04713	SPS8700
A3B0906	151-0194-00	B010100	B030487	TRANSISTOR:PNP,SI,TO-39	04713	SA3195
A3B0906	151-0270-00	B030488	B111284	TRANSISTOR:PNP,SI,TO-5	04713	ST919
A3B0906	151-0270-03	B111285		TRANSISTOR:SCREENED	04713	ST919H
A3B0928	151-0281-00			TRANSISTOR:PNP,SI,TO-77	04713	SD441
A3B0946	151-0188-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0188-00
A3B014	321-0202-09			RES,FXD,FILM:1.24K OHM,1%,0.125W,TC=T9	19701	5033RE1K240F
A3B016	321-0202-09			RES,FXD,FILM:1.24K OHM,1%,0.125W,TC=T9	19701	5033RC1K240F
A3B01B	311-1227-00			RES,VAR,NONWW:TRMR,5K OHM,0.5W	32997	3386F-T04-502
A3B030	315-0105-00			RES,FXD,FILM:1M OHM,5%,0.25W	19701	5043CX1M000J
A3B032	315-0754-00			RES,FXD,FILM:750K OHM,5%,0.25W,MI	19701	5043CX750K0J
A3B034	315-0155-00			RES,FXD,FILM:1.5M OHM,5%,0.25W	19701	5043CX1M500J
A3B036	321-0202-09			RES,FXD,FILM:1.24K OHM,1%,0.125W,TC=T9	19701	5033RE1K240F
A3B039	321-0202-09			RES,FXD,FILM:1.24K OHM,1%,0.125W,TC=T9	19701	5033RE1K240F
A3B0108	324-0356-09			RES,FXD,FILM:49.9K OHM,1%,1W,TC=T9	91637	MFF1104D4990F
A3B0110	323-0355-09			RES,FXD,FILM:48.7K OHM,1%,0.5W,TC=T9	91637	MFF1226C4870F
A3B0112	323-0355-09			RES,FXD,FILM:48.7K OHM,1%,0.5W,TC=T9	91637	MFF1226C4870F
A3B0116	323-0355-09			RES,FXD,FILM:48.7K OHM,1%,0.5W,TC=T9	91637	MFF1226C4870F
A3B0118	323-0355-09			RES,FXD,FILM:48.7K OHM,1%,0.5W,TC=T9	91637	MFF1226C4870F
A3B0120	324-0356-09			RES,FXD,FILM:49.9K OHM,1%,1W,TC=T9	91637	MFF1104D4990F
A3B0128	324-0356-09			RES,FXD,FILM:49.9K OHM,1%,1W,TC=T9	91637	MFF1104D4990F
A3B0132	323-0355-09			RES,FXD,FILM:48.7K OHM,1%,0.5W,TC=T9	91637	MFF1226C4870F
A3B0134	323-0355-09			RES,FXD,FILM:48.7K OHM,1%,0.5W,TC=T9	91637	MFF1226C4870F
A3B0136	323-0355-09			RES,FXD,FILM:48.7K OHM,1%,0.5W,TC=T9	91637	MFF1226C4870F
A3B0138	323-0355-09			RES,FXD,FILM:48.7K OHM,1%,0.5W,TC=T9	91637	MFF1226C4870F
A3B0140	324-0356-09			RES,FXD,FILM:49.9K OHM,1%,1W,TC=T9	91637	MFF1104D4990F
A3B0206	315-0222-00			RES,FXD,FILM:2.2K OHM,5%,0.25W	57668	NTR25J-E02K2
A3B0216	323-0283-00			RES,FXD,FILM:8.66K OHM,1%,0.5W,TC=T0	19701	5053R0886F
A3B0220	315-0101-00			RES,FXD,FILM:100 OHM,5%,0.25W	57668	NTR25J-E 100E
A3B0228	315-0101-00			RES,FXD,FILM:100 OHM,5%,0.25W	57668	NTR25J-E 100E
A3B0236	323-0283-00			RES,FXD,FILM:8.66K OHM,1%,0.5W,TC=T0	19701	5053R0886F
A3B0244	315-0222-00			RES,FXD,FILM:2.2K OHM,5%,0.25W	57668	NTR25J-E02K2
A3B0306	303-0184-00			RES,FXD,CMPSN:180K OHM,5%,1W	01121	GB1845
A3B0312	321-0185-09			RES,FXD,FILM:825 OHM,0.125W,TC=T9	19701	5033RB82R5F
A3B0318	321-0185-09			RES,FXD,FILM:825 OHM,0.125W,TC=T9	19701	5033RB82R5F
A3B0320	315-0222-00			RES,FXD,FILM:2.2K OHM,5%,0.25W	57668	NTR25J-E02K2
A3B0322	303-0184-00			RES,FXD,CMPSN:180K OHM,5%,1W	01121	GB1845
A3B0328	303-0184-00			RES,FXD,CMPSN:180K OHM,5%,1W	01121	GB1845
A3B0328	315-0222-00			RES,FXD,FILM:2.2K OHM,5%,0.25W	57668	NTR25J-E02K2
A3B0334	321-0185-09			RES,FXD,FILM:825 OHM,0.125W,TC=T9	19701	5033RE82R5F
A3B0336	321-0185-09			RES,FXD,FILM:825 OHM,0.125W,TC=T9	19701	5033RE82R5F
A3B0342	303-0184-00			RES,FXD,CMPSN:180K OHM,5%,1W	01121	GB1845

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Descnt	Name & Description	Mfr. Code	Mfr. Part No.
A3B8406	315-0103-00			RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10K00J
A3B8408	301-0822-00			RES,FXD,FILM:8.2K OHM,5%,0.5W	19701	5053C08K200J
A3B8410	321-0222-00			RES,FXD,FILM:2.80K OHM,1,0.125W,TC=T9	07716	CEAC20000F
A3B8412	315-0362-00			RES,FXD,FILM:3.6K OHM,5%,0.25W	19701	5043CX3K600J
A3B8416	323-0283-00			RES,FXD,FILM:6.66K OHM,1%,0.5W,TC=T2	19701	5053F06K660F
A3B8422	301-0822-00			RES,FXD,FILM:8.2K OHM,5%,0.5W	19701	5053C08K200J
A3B8424	301-0822-00			RES,FXD,FILM:8.2K OHM,5%,0.5W	19701	5053C08K200J
A3B8426	315-0183-00			RES,FXD,FILM:18K OHM,5%,0.25W	19701	5043CX18K00J
A3B8432	321-0222-03			RES,FXD,FILM:2.00K OHM,1,0.125W,TC=T9	07716	CEAC20000F
A3B8434	315-0362-00			RES,FXD,FILM:3.6K OHM,5%,0.25W	19701	5043CX3K600J
A3B8438	323-0283-00			RES,FXD,FILM:6.66K OHM,1%,0.5W,TC=T0	19701	5053F06K660F
A3B8442	301-0822-00			RES,FXD,FILM:8.2K OHM,5%,0.5W	19701	5053C08K200J
A3B8502	321-0191-09			RES,FXD,FILM:953 OHM,1%,0.125W,TC=T9	01121	ORDER BY DESCR
A3B8504	321-0155-09			RES,FXD,FILM:402 OHM,1%,0.125W,TC=T9	01121	ORDER BY DESCR
A3B8506	311-1224-00			RES,VAR,NONWIR:100Ω,500 OHM,0.5W	32997	3386F-T04-501
A3B8510	315-0100-00			RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX10R00J
A3B8512	315-0100-00			RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX10R00J
A3B8514	315-0100-00			RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX10R00J
A3B8516	321-0222-03			RES,FXD,FILM:2.00K OHM,1,0.125W,TC=T9	07716	CEAC20000F
A3B8518	315-0362-00			RES,FXD,FILM:3.6K OHM,5%,0.25W	19701	5043CX3K600J
A3B8522	315-0183-00			RES,FXD,FILM:18K OHM,5%,0.25W	19701	5043CX18K00J
A3B8524	321-0191-09			RES,FXD,FILM:953 OHM,1%,0.125W,TC=T9	01121	ORDER BY DESCR
A3B8526	321-0155-09			RES,FXD,FILM:402 OHM,1%,0.125W,TC=T9	01121	ORDER BY DESCR
A3B8528	311-1224-00			RES,VAR,NONWIR:100Ω,500 OHM,0.5W	32997	3386F-T04-501
A3B8550	315-0100-00			RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX10R00J
A3B8552	315-0100-00			RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX10R00J
A3B8554	315-0100-00			RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX10R00J
A3B8536	321-0222-03			RES,FXD,FILM:2.00K OHM,1,0.125W,TC=T9	07716	CEAC20000F
A3B8537	315-0362-00			RES,FXD,FILM:3.6K OHM,5%,0.25W	19701	5043CX3K600J
A3B8538	323-0350-00			RES,FXD,FILM:43.2K OHM,1%,0.5W,TC=T0	75042	CEC10-4322F
A3B8540	323-0350-00			RES,FXD,FILM:43.2K OHM,1%,0.5W,TC=T0	75042	CEC10-4322F
A3B8542	315-0183-00			RES,FXD,FILM:18K OHM,5%,0.25W	19701	5043CX18K00J
A3B8544	323-0125-00			RES,FXD,FILM:200 OHM,1%,0.5W,TC=T0	75042	CEC10-2000F
A3B8546	323-0125-00			RES,FXD,FILM:200 OHM,1%,0.5W,TC=T0	75042	CEC10-2000F
A3B8548	315-0161-00			RES,FXD,FILM:160 OHM,5%,0.25W	57668	NTR25J-E 160E
A3B8602	311-1235-00			RES,VAR,NONWIR:100K OHM,0.5W	32997	3386F-T04-104
A3B8604	305-0563-00			RES,FXD,CMPSN:56K OHM,5%,2W	01121	HB5635
A3B8606	321-0289-09			RES,FXD,FILM:12.4K OHM,1%,0.125W,TC=T0	01121	ORDER BY DESCR
A3B8610	321-0452-03			RES,FXD,FILM:499K OHM,1%,0.125W,TC=T0	01121	ORDER BY DESCR
A3B8612	321-0452-03			RES,FXD,FILM:499K OHM,1%,0.125W,TC=T0	01121	ORDER BY DESCR
A3B8614	303-0333-00			RES,FXD,CMPSN:33K OHM,5%,1W	01121	GB3335
A3B8616	303-0333-00			RES,FXD,CMPSN:33K OHM,5%,1W	01121	GB3335
A3B8618	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
A3B8620	315-0750-00			RES,FXD,FILM:75 OHM,5%,0.25W	57668	NTR25J-E75E0
A3B8622	315-0100-00			RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX10R00J
A3B8624	307-0106-00			RES,FXD,CMPSN:4.7 OHM,5%,0.25W	01121	CB 4705
A3B8626	315-0100-00			RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX10R00J
A3B8628	315-0101-00			RES,FXD,FILM:100 OHM,5%,0.25W	57668	NTR25J-E 100E
A3B8629	307-0106-00			RES,FXD,CMPSN:4.7 OHM,5%,0.25W	01121	CB 4705
A3B8632	311-1233-00			RES,VAR,NONWIR:10kΩ,5kΩ OHM,0.25W	32997	3386F-T05-503
A3B8634	321-0312-00			RES,FXD,FILM:17.4K OHM,1%,0.125W,TC=T0	19701	5033E17F40F
A3B8636	321-0263-03			RES,FXD,FILM:5.36K OHM,1%,0.125W,TC=T0	07716	CEA05360F
A3B8638	321-0263-03			RES,FXD,FILM:5.36K OHM,1%,0.125W,TC=T0	07716	CEA05360F
A3B8752	305-0680-00			RES,FXD,CMPSN:68 OHM,5%,2W	01121	HB6805
A3B8708	315-0680-00			RES,FXD,FILM:68 OHM,5%,0.25W	57668	NTR25J-E680E
A3B8709	315-0229-00			RES,FXD,FILM:2.2M OHM,5%,0.25W	01121	CB2255
A3B8710	317-0621-00			RES,FXD,CMPSN:620 OHM,5%,0.125W	01121	BB6215
A3B8712	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25J-E1K00
A3B8714	315-0750-00			RES,FXD,FILM:75 OHM,5%,0.25W	57668	NTR25J-E75E0

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Discont	Name & Description	Mfr. Code	Mfr. Part No.
A388716	307-0106-00			RES,FXD,CMPSN:4.7 OHM,5%,0.25W	01121	CB 4705
A388718	315-0220-00			RES,FXD,FILM:22 OHM,5%,0.25W	19701	5043CX220R0J
A388720	315-0100-00			RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX100R0J
A388722	315-0470-00			RES,FXD,FILM:47 OHM,5%,0.25W	57668	NTR25J-E47R0
A388724	322-0519-01			RES,FXD,FILM:2.49M OHM,0.5%,0.25W,TC=T0	07716	CCB2495D3
A388725	315-0470-00			RES,FXD,FILM:47 OHM,5%,0.25W	57668	NTR25J-E47R0
A388726	321-0854-00			RES,FXD,FILM:47.5K OHM,1%,0.125W,TC=T0	19701	5043ED47K50F
A388727	315-0331-00			RES,FXD,FILM:330 OHM,5%,0.25W	57668	NTR25J-E330E
A388728	311-1272-00			RES,VAR,NONWIR:10MΩ,100K OHM,0.5W	32997	3329P-L58-104
A388730	321-0414-00			RES,FXD,FILM:200K OHM,1%,0.125W,TC=T0	07716	CEA0200F
A388731	321-0414-00			RES,FXD,FILM:200K OHM,1%,0.125W,TC=T0	07716	CEA0200F
A388732	311-1233-00			RES,VAR,NONWIR:10MΩ,50K OHM,0.25W	32997	3386F-T05-503
A388733	321-0481-00			RES,FXD,FILM:1M OHM,1%,0.125W,TC=T0	19701	5043ED1M000F
A388734	321-0481-00			RES,FXD,FILM:1M OHM,1%,0.125W,TC=T0	19701	5043ED1M000F
A388735	321-0312-00			RES,FXD,FILM:17.4K OHM,1%,0.125W,TC=T0	19701	5033ED17K40F
A388736	321-0260-00			RES,FXD,FILM:4.99K OHM,1%,0.125W,TC=T0	19701	5033ED4K990F
A388737	321-0263-00			RES,FXD,FILM:5.36K OHM,1%,0.125W,TC=T0	07716	CEA0536D3F
A388738	321-0263-00			RES,FXD,FILM:5.36K OHM,1%,0.125W,TC=T0	07716	CEA0536D3F
A388798	323-0350-00			RES,FXD,FILM:43.2K OHM,1%,0.5W,TC=T0	75042	CEC70-4322F
A388740	323-0350-00			RES,FXD,FILM:43.2K OHM,1%,0.5W,TC=T0	75042	CEC70-4322F
A388742	323-0126-00			RES,FXD,FILM:200 OHM,1%,0.5W,TC=T0	75042	CEC70-2000F
A388744	323-0126-00			RES,FXD,FILM:200 OHM,1%,0.5W,TC=T0	75042	CEC70-2000F
A388746	315-0151-00			RES,FXD,FILM:150 OHM,5%,0.25W	57668	NTR25J-E 150E
A388802	308-0623-00			RES,FXD,WW:167 OHM,1%,3W	00213	12405 167 1%
A388804	311-1229-00			RES,VAR,NONWIR:10KΩ,10% OHM,0.5W	32997	3386F-T04-103
A388806	321-0272-07	B010100	B030487	RES,FXD,FILM:6.65K OHM,0.1%,0.125W,TC=T9	07716	CEB6652D3
A388806	321-0815-07	B030488		RES,FXD,FILM:4.1K OHM,0.1%,0.125W,TC=T9	19701	5033E04K100B
A388808	321-0298-06			RES,FXD,FILM:12.4K OHM,1%,0.125W,TC=T9	01121	ORDER BY DESCR
A388814	315-0161-00			RES,FXD,FILM:160 OHM,5%,0.25W	57668	NTR25J-E 160E
A388816	321-0216-00			RES,FXD,FILM:1.74K OHM,1%,0.125W,TC=T0	07716	CEA0174D3F
A388818	321-0385-00			RES,FXD,FILM:100K OHM,1%,0.125W,TC=T0	19701	5033E0100KDF
A388820	321-0402-00			RES,FXD,FILM:150K OHM,1%,0.125W,TC=T0	19701	5033E0150KDF
A388832	315-0513-00			RES,FXD,FILM:51K OHM,5%,0.25W	57668	NTR25J-E51K0
A388834	315-0101-00			RES,FXD,FILM:100 OHM,5%,0.25W	57668	NTR25J-E 100E
A388836	315-0153-00			RES,FXD,FILM:15K OHM,5%,0.25W	19701	5043CX15K00J
A388838	315-0152-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
A388840	315-0104-00			RES,FXD,FILM:100K OHM,5%,0.25W	57668	NTR25J-E100K
A388842	315-0104-00			RES,FXD,FILM:100K OHM,5%,0.25W	57668	NTR25J-E100K
A388904	315-0511-00			RES,FXD,FILM:510 OHM,5%,0.25W	19701	5043CX5100J
A388906	315-0153-00			RES,FXD,FILM:15K OHM,5%,0.25W	19701	5043CX15K00J
A388910	323-0315-00			RES,FXD,FILM:10.7K OHM,1%,0.5W,TC=T0	19701	5053ED10K70F
A388912	303-0823-00			RES,FXD,CMPSN:82K OHM,5%,1W	01121	CB8235
A388918	311-1252-00			RES,VAR,NONWIR:10KΩ,500K OHM,0.5W	32997	3386F-T04-504
A388922	315-0103-00			RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10K00J
A388924	315-0433-00			RES,FXD,FILM:43K OHM,5%,0.25W	19701	5043CX43K00J
A388926	315-0912-00			RES,FXD,FILM:9.1K OHM,5%,0.25W	57668	NTR25J-E09K1
A388930	321-0356-00			RES,FXD,FILM:40.2K OHM,1%,0.125W,TC=T0	19701	5033E40R90F
A388932	321-0446-00			RES,FXD,FILM:412K OHM,1%,0.125W,TC=T0	07716	CEB0412D2F
A388938	315-0393-00			RES,FXD,FILM:39K OHM,5%,0.25W	57668	NTR25J-E39K0
A388940	315-0103-00			RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10K00J
A388942	315-0183-00			RES,FXD,FILM:18K OHM,5%,0.25W	19701	5043CX18K00J
A388944	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
A388946	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
A388948	315-0472-00			RES,FXD,FILM:4.7K OHM,5%,0.25W	57668	NTR25J-E04K7
A388616	156-0067-00			MICROCKT,LINEAR:OPNL AMPL,SEL	04713	MC1741CP1
A388828	156-0067-00			MICROCKT,LINEAR:OPNL AMPL,SEL	04713	MC1741CP1
A38VR206	152-0283-00			SEMICOND DVC,DI:ZEN,SI,43V,5%,0.4W,D-67	04713	SZ14257E6L
A38VR224	152-0283-00			SEMICOND DVC,DI:ZEN,SI,43V,5%,0.4W,D-67	04713	SZ14257E6L
A38VR226	152-0283-00			SEMICOND DVC,DI:ZEN,SI,43V,5%,0.4W,D-67	04713	SZ14257E6L

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Dscont	Name & Description	Mfr. Code	Mfr. Part No.
A8BVR248	152-0760-00			SEMICOND DVC,DI:ZEN,SI,4.3V,5%,0.4W,D-07	04713	SZ14257-91
A8BVR308	152-0388-00			SEMICOND DVC,DI:ZEN,SI,75V,5%,0.4W,DO-7	14552	1N5828
A8BVR318	152-0388-00			SEMICOND DVC,DI:ZEN,SI,75V,5%,0.4W,DO-7	14552	1N5828
A8BVR338	152-0388-00			SEMICOND DVC,DI:ZEN,SI,75V,5%,0.4W,DO-7	14552	1N5828
A8BVR348	152-0388-00			SEMICOND DVC,DI:ZEN,SI,75V,5%,0.4W,DO-7	14552	1N5828
A8BVR358	152-0458-00			SEMICOND DVC,DI:ZEN,SI,6.2V,5%,0.4W,DO-7	04713	SZ10250201
A8BW870	131-0566-00			BUS,CNDCT:DSNNT RES,0.094 OD X 0.225 L	24546	043 07
A8BW936	131-0566-00			BUS,CNDCT:DSNNT RES,0.094 OD X 0.225 L	24546	043 07
A40	670-5144-00	B010100	B036899	CIRCUIT BD ASSY:HORIZONTAL AMPL & I AXIS	80009	670-5144-00
A40	670-5144-01	B040000	B079999	CIRCUIT BD ASSY:HORIZONTAL AMPL & I AXIS	80009	670-5144-01
A40	670-5144-02	B080320	B100765	CIRCUIT BD ASSY:HORIZONTAL AMPL & I AXIS	80009	670-5144-02
A40	670-5144-03	B100767	B100778	CIRCUIT BD ASSY:HORIZONTAL AMPL & I AXIS	80009	670-5144-03
A40	670-5144-04	B100777	B111279	CIRCUIT BD ASSY:HORIZONTAL AMPL & I AXIS	80009	670-5144-04
A40	670-5144-05	B111280		CIRCUIT BD ASSY:HORIZONTAL AMPL & I AXIS	80009	670-5144-05
A40C6	283-0003-00			CAP,FXD,CER DI:0.01UF,+80-20%,150V	59821	D103Z402SU4DCE4
A40C8	283-0003-00			CAP,FXD,CER DI:0.01UF,+80-20%,150V	59821	D103Z402SU4DCE4
A40C10	281-0559-00			CAP,FXD,CER DI:1.3PF,+/-0.25PF,500V	52763	280PL2307 4P300C
A40C12	283-0003-00			CAP,FXD,CER DI:0.01UF,+80-20%,150V	59821	D103Z402SU4DCE4
A40C22	283-0003-00			CAP,FXD,CER DI:0.01UF,+80-20%,150V	59821	D103Z402SU4DCE4
A40C24	281-0559-00			CAP,FXD,CER DI:1.3PF,+/-0.25PF,500V	52763	280PL2307 4P300C
A40C26	283-0003-00			CAP,FXD,CER DI:0.01UF,+80-20%,150V	59821	D103Z402SU4DCE4
A40C28	283-0003-00			CAP,FXD,CER DI:0.01UF,+80-20%,150V	59821	D103Z402SU4DCE4
A40C108	281-0153-00			CAP,VAR,AIR DI:1.7-10PF,250V	74970	187-0106-055
A40C110	283-0647-00	B010100	B079999	CAP,FXD,MICA DI:700PF,1%,100V	00853	D155E700F0
A40C110	283-0639-00	B080000	B100776	CAP,FXD,MICA DI:770PF,1%,100V	00853	D155E770F0
A40C110	283-0647-00	B100777		CAP,FXD,MICA DI:700PF,1%,100V	00853	D155E700F0
A40C120	283-0647-00	B010100	B079999	CAP,FXD,MICA DI:700PF,1%,100V	00853	D155E700F0
A40C120	283-0639-00	B080000	B100776	CAP,FXD,MICA DI:770PF,1%,100V	00853	D155E770F0
A40C120	283-0647-00	B100777		CAP,FXD,MICA DI:700PF,1%,100V	00853	D155E700F0
A40C132	281-0153-00			CAP,VAR,AIR DI:1.7-10PF,250V	74970	187-0106-055
A40C142	283-0167-00			CAP,FXD,CER DI:0.1UF,10%,100V	04222	3430-100E-104K
A40C220	283-0003-00			CAP,FXD,CER DI:0.01UF,+80-20%,150V	59821	D103Z402SU4DCE4
A40C242	290-0257-00			CAP,FXD,ELCTLT:1UF,20%,35V	05397	T320D105M035AS
A40C256	290-0244-00			CAP,FXD,ELCTLT:0.47UF,5%,35V	56289	173D474X5035U
A40C306	290-0745-00			CAP,FXD,ELCTLT:22UF,+50-10%,25V	56473	ECE-S25V22L
A40C308	283-0624-00			CAP,FXD,MICA DI:300PF,2%,500V	00853	D155F300G0
A40C316	283-0080-00			CAP,FXD,CER DI:0.022UF,+80-20%,25V	59821	200S68E223Z
A40C326	281-0219-00			CAP,VAR,CER DI:5-35PF,+2 -2.5%,100V	59660	513-211 A 5-35
A40C329	283-0606-00			CAP,FXD,MICA DI:300PF,2%,500V	00853	D155F300G0
A40C330	290-0572-00			CAP,FXD,ELCTLT:0.1UF,20%,50V	05397	T368A104M050AS
A40C334	283-0003-00			CAP,FXD,CER DI:0.01UF,+80-20%,150V	59821	D103Z402SU4DCE4
A40C338	283-0167-00			CAP,FXD,CER DI:0.1UF,10%,100V	04222	3430-100E-104K
A40C352	283-0000-00			CAP,FXD,CER DI:0.001UF,+100-0%,500V	55680	831-610-Y5U102Z
A40C434	290-0745-00			CAP,FXD,ELCTLT:22UF,+50-10%,25V	56473	ECE-S25V22L
A40C436	283-0003-00			CAP,FXD,CER DI:0.01UF,+80-20%,150V	59821	D103Z402SU4DCE4
A40C446	283-0167-00			CAP,FXD,CER DI:0.1UF,10%,100V	04222	3430-100E-104K
A40C456	283-0102-00			CAP,FXD,CER DI:0.0047UF,10%,200V	04222	SR305C472KAA
A40C502	283-0167-00			CAP,FXD,CER DI:0.1UF,10%,100V	04222	3430-100E-104K
A40C504	283-0167-00			CAP,FXD,CER DI:0.1UF,10%,100V	04222	3430-100E-104K
A40C506	283-0167-00			CAP,FXD,CER DI:0.1UF,10%,100V	04222	3430-100E-104K
A40C508	283-0167-00			CAP,FXD,CER DI:0.1UF,10%,100V	04222	3430-100E-104K
A40C512	283-0211-00			CAP,FXD,CER DI:0.1UF,10%,200V	04222	SR305C104KAA
A40C602	283-0167-00	B010100	B100765	CAP,FXD,CER DI:0.1UF,10%,100V	04222	3430-100E-104K
A40C602	283-0211-00	B100767		CAP,FXD,CER DI:0.1UF,10%,200V	04222	SR305C104KAA
A40C608	283-0004-00			CAP,FXD,CER DI:0.022UF,+80-20%,150V	59660	855-550E902E33
A40C614	281-0629-00			CAP,FXD,CER DI:33PF,5%,500V	52763	280PL1007 33P0J0

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Descnt	Name & Description	Mfr. Code	Mfr. Part No.
A40C622	290-0528-00			CAP,FXD,ELCTLT:15UF,20%,50V	05397	T356C156M050AS
A40C626	283-0116-00			CAP,FXD,CER DI:820PF,5%,500V	59660	855-15A771X0682KJ
A40C706	283-0167-00			CAP,FXD,CER DI:0.1UF,10%,100V	04222	3430-100C-104K
A40C710	283-0004-00			CAP,FXD,CER DI:0.02UF,+80-20%,150V	59660	855-5581X0203Z
A40C714	283-0167-00			CAP,FXD,CER DI:0.1UF,10%,100V	04222	3430-100C-104K
A40C718	283-0167-00			CAP,FXD,CER DI:0.1UF,10%,100V	04222	3430-100C-104K
A40C718	283-0167-00			CAP,FXD,CER DI:0.1UF,10%,100V	04222	3430-100C-104K
A40C720	283-0004-00			CAP,FXD,CER DI:0.02UF,+80-20%,150V	59660	855-5581X0203Z
A40C732	283-0004-00			CAP,FXD,CER DI:0.02UF,+80-20%,150V	59660	855-5581X0203Z
A40C734	283-0004-00			CAP,FXD,CER DI:0.02UF,+80-20%,150V	59660	855-5581X0203Z
A40C735	283-0004-00			CAP,FXD,CER DI:0.02UF,+80-20%,150V	59660	855-5581X0203Z
A40C738	283-0113-00			CAP,FXD,CER DI:56PF,5%,500V	TK1134	08515600G0560F
A40CB02	283-0167-00			CAP,FXD,CER DI:0.1UF,10%,100V	04222	3430-100C-104K
A40CB03	283-0594-00			CAP,FXD,MICA DI:0.001UF,1%,100V	03853	2451F102FD
A40CB08	291-0060-00			CAP,VAR,CER DI:2-8PF,350V	33095	53-717-01302-8
A40CB12	291-0548-00			CAP,FXD,CER DI:330PF,10%,500V	52763	2805PL200J 330PD
A40CB16	291-0093-00			CAP,VAR,CER DI:5.5-10PF,350V	52763	302S22217
A40CB20	291-0681-00			CAP,FXD,CER DI:0.8PF,+/-0.1PF,500V	52763	2805PL200J 0P8CBC
A40CB26	283-0150-00			CAP,FXD,CER DI:850PF,5%,200V	59821	200M850G651J
A40CB30	283-0004-00			CAP,FXD,CER DI:0.02UF,+80-20%,150V	59660	855-5581X0203Z
A40CB32	281-0822-00			CAP,FXD,CER DI:1PF,+/-0.25PF,500V	52763	2805PL200J 1P00CC
A40CB42	281-0822-00	B010100	B079999	CAP,FXD,CER DI:1PF,+/-0.25PF,500V	52763	2805PL200J 1P00CC
A40CB42	283-0117-00	B080000		CAP,FXD,CER DI:1PF,+/-0.1PF,500V	59660	851S1BC010D1D9B
A40CR52	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	DA2527 (1N4152)
A40CR54	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	DA2527 (1N4152)
A40CR112	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	DA2527 (1N4152)
A40CR118	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	DA2527 (1N4152)
A40CR122	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	DA2527 (1N4152)
A40CR210	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	DA2527 (1N4152)
A40CR212	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	DA2527 (1N4152)
A40CR226	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	DA2527 (1N4152)
A40CR242	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	DA2527 (1N4152)
A40CR246	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	DA2527 (1N4152)
A40CR450	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	DA2527 (1N4152)
A40CR456	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	DA2527 (1N4152)
A40CR516	152-0141-02	B100767		SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	DA2527 (1N4152)
A40CR518	152-0141-02	B100767		SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	DA2527 (1N4152)
A40CR618	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	DA2527 (1N4152)
A40CR718	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	DA2527 (1N4152)
A40CR830	152-0066-00			SEMICOND DVC,DI:RECT,SI,400V,1A,00-41	06829	GP10G-020
A40CR836	152-0066-00			SEMICOND DVC,DI:RECT,SI,400V,1A,00-41	06829	GP10G-020
A40CR726	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	DA2527 (1N4152)
A40CR740	152-0361-00			SEMICOND DVC,DI:SW,SI,175V,0.1A,00-35	07263	FDH2161
A40CR814	152-0233-00			SEMICOND DVC,DI:SW,SI,80V,75MA,00-7	03508	DA2737
A40CR820	152-0233-00			SEMICOND DVC,DI:SW,SI,80V,75MA,00-7	03508	DA2737
A40CR832	152-0233-00			SEMICOND DVC,DI:SW,SI,80V,75MA,00-7	03508	DA2737
A40CR836	152-0233-00			SEMICOND DVC,DI:SW,SI,80V,75MA,00-7	03508	DA2737
A40E214	276-0507-00	B040000		SHLD BEAD,ELEK:FERRITE	02114	56-590-65A738
A40L404	108-0245-00			CHOKE,RF:FIXED,3.9UH	76493	B6310-1
A40L406	108-0245-00			CHOKE,RF:FIXED,3.9UH	76493	B6310-1
A40Q8	151-0274-00	B010100	B111294	TRANSISTOR:NPN,SI,TO-5	04713	S57394
A40Q8	151-0274-01	B111295		TRANSISTOR:SCREENED	04713	S57394H
A40Q10	151-0270-00	B010100	B111294	TRANSISTOR:PNP,SI,TO-5	04713	ST919
A40Q10	151-0270-03	B111295		TRANSISTOR:SCREENED	04713	ST919H
A40Q22	151-0270-00	B010100	B111294	TRANSISTOR:PNP,SI,TO-5	04713	ST919
A40Q22	151-0270-03	B111295		TRANSISTOR:SCREENED	04713	ST919H
A40Q20	151-0274-00	B010100	B111294	TRANSISTOR:NPN,SI,TO-5	04713	S57394
A40Q20	151-0274-01	B111295		TRANSISTOR:SCREENED	04713	S57394H
A40Q40	151-0301-00			TRANSISTOR:PNP,SI,TO-18	04713	S1898

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Dscnt	Name & Description	Mfr. Code	Mfr. Part No.
A400100	151-0150-00	B010100	B101159	TRANSISTOR:NPN,SI,TO-92	80009	151-0150-00
A400110	151-0150-00			TRANSISTOR:NPN,SI,TO-92	80009	151-0150-00
A400120	151-0220-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0220-00
A400132	151-0220-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0220-00
A400146	151-0347-00			TRANSISTOR:NPN,SI,TO-92	04713	SPS7351
A400152	151-0347-00			TRANSISTOR:NPN,SI,TO-92	04713	SPS7351
A400154	151-0139-00			TRANSISTOR:PNP,SI,TO-18	04713	SN3155
A400156	151-0435-00			TRANSISTOR:DARLINGTON,PNP,SI,TO-92	04713	SPS8335
A402214	151-0442-00			TRANSISTOR:NPN,SI,TO-72	04713	SR1525
A402216	151-0223-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0220-00
A402222	151-0434-00	B010100	B111284	TRANSISTOR:PNP,SI,TO-72	04713	SS7144
A402222	151-0434-01	B111285		TRANSISTOR:SELECTED	04713	SS7144H
A402224	151-0220-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0220-00
A402252	151-0133-00			TRANSISTOR:PNP,SI,TO-18	04713	SN3155
A402256	151-0220-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0220-00
A402310	151-0325-00	B010100	B030471	TRANSISTOR:PNP,SI,TO-92,SEL	80009	151-0325-00
A402319	151-0221-00	B030472		TRANSISTOR:PNP,SI,TO-92	80009	151-0221-00
A402322	151-0325-00	B010100	B030471	TRANSISTOR:PNP,SI,TO-92,SEL	80009	151-0325-00
A402322	151-0221-00	B030472		TRANSISTOR:PNP,SI,TO-92	80009	151-0221-00
A402334	151-0220-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0220-00
A402356	151-0232-00			TRANSISTOR:NPN,SI,TO-78	07263	SP12141
A402452	151-0220-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0220-00
A402515	151-0193-00	B100767		TRANSISTOR:NPN,SI,TO-92	80009	151-0193-00
A402519	151-0223-00	B100767		TRANSISTOR:PNP,SI,TO-92	80009	151-0223-00
A402616	151-0220-00			TRANSISTOR:PNP,SI,TO-92	80009	151-0220-00
A402628	151-0435-00			TRANSISTOR:DARLINGTON,PNP,SI,TO-92	04713	SPS8335
A402636	151-0444-02			TRANSISTOR:NPN,SI,TO-92	04713	SPS7587-2
A402708	151-0223-00			TRANSISTOR:NPN,SI,TO-92	04713	SPS8026
A402714	151-0160-00	B010100	B100776	TRANSISTOR:SELECTED	80009	151-0160-00
A402714	151-0451-00	B100777	B111284	TRANSISTOR:NPN,SI,TO-39	04713	SSF503
A402714	151-0451-01	B111285		TRANSISTOR:SCREENED	04713	SSF503H1
A402726	151-0271-00			TRANSISTOR:PNP,SI,TO-92	04713	SPS8238
A402732	151-0192-00			TRANSISTOR:SELECTED	04713	SPS8801
A402736	151-0134-00			TRANSISTOR:PNP,SI,TO-39	04713	SN3195
A402802	153-0623-00			SEMICOND DVC SE:MATCHED PAIR	80009	153-0623-00
A402806	153-0623-00			SEMICOND DVC SE:MATCHED PAIR	80009	153-0623-00
A402826	151-0124-00			TRANSISTOR:NPN,SI,TO-39	04713	SN8138
A402834	151-0272-00	B010100	B111284	TRANSISTOR:PNP,SI,TO-5	04713	ST919
A402834	151-0272-01	B111285		TRANSISTOR:SCREENED	04713	ST919H
A4044	308-0272-00			RES,FXD,CMPSN:2.7 OHM,5%,1W	01121	CB2725
A4046	315-0270-00			RES,FXD,FILM:27 OHM,5%,0.25W	19701	5043CX27R00J
A4810	315-0680-00			RES,FXD,FILM:68 OHM,5%,0.25W	57668	MTR25J-68R0
A4812	308-0273-00			RES,FXD,CMPSN:27K OHM,5%,1W	01121	CB2735
A4814	315-0100-00			RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX10R00J
A4818	321-0205-00			RES,FXD,FILM:1.33K OHM,1%,0.125W,TC=T0	19701	5033EDM1331F
A4822	315-0680-00			RES,FXD,FILM:68 OHM,5%,0.25W	57668	MTR25J-68R0
A4824	301-0563-00			RES,FXD,FILM:56K OHM,5%,0.5W	19701	5053CX56003J
A4825	315-0150-00			RES,FXD,FILM:15 OHM,5%,0.25W	19701	5043CX15R00J
A4832	315-0271-00			RES,FXD,FILM:270 OHM,5%,0.25W	57668	MTR25J-1271F
A4834	315-0100-00			RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX10R00J
A4838	303-0332-00			RES,FXD,CMPSN:3.3K OHM,5%,1W	01121	CB3325
A4844	315-0512-00			RES,FXD,FILM:5.1K OHM,5%,0.25W	57668	MTR25J-5061
A4846	315-0103-00			RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10K00J
A4848	315-0222-00			RES,FXD,FILM:2.2K OHM,5%,0.25W	57668	MTR25J-222
A4851100	321-0056-00			RES,FXD,FILM:47.5 OHM,0.5%,0.125W,TC=T0	91637	DMF5511547R5F
A4891114	321-0258-00			RES,FXD,FILM:4.75K OHM,1%,0.125W,TC=T0	19701	5033EDM4751F
A4891116	323-0327-00			RES,FXD,FILM:24.9K OHM,1%,0.5W,TC=T0	91637	MFF1220G24901F
A4891118	311-1225-00			RES,VAR,NONWW:TRMR,1K OHM,0.5W	32997	3386F-T04-102
A4891122	321-0218-00			RES,FXD,FILM:1.62K OHM,1%,0.125W,TC=T0	19701	5033EDM1621F

Component No.	Tektronix Part No	Serial/Assembly No. Effective	Serial/Assembly No. Discont	Name & Description	Mfr. Code	Mfr. Part No.
A408R126	321-0260-00			RES,FXD,FILM:4.99K OHM,1%,0.125W,TC=TO	19701	5033ED4K99F
A408R128	323-0327-00			RES,FXD,FILM:24.9K OHM,1%,0.5W,TC=TO	91637	MFF1220G24901F
A408R138	321-0366-00			RES,FXD,FILM:47.5 OHM,0.5%,0.125W,TC=TO	91637	CMF55116G47R50F
A408R140	315-0100-00			RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX10R0DJ
A408R142	315-0163-00			RES,FXD,FILM:16K OHM,5%,0.25W	57668	NTR25J-E 16K
A408R144	315-0181-00			RES,FXD,FILM:180 OHM,5%,0.25W	57668	NTR25J-E180E
A408R145	315-0182-00			RES,FXD,FILM:1.8K OHM,5%,0.25W	57668	NTR25J-E1K8
A408R149	315-0302-00			RES,FXD,FILM:3K OHM,5%,0.25W	57668	NTR25J-E03K0
A408R199	315-0472-00			RES,FXD,FILM:4.7K OHM,5%,0.25W	57668	NTR25J-E04K7
A408R202	301-0333-00			RES,FXD,FILM:33K OHM,5%,0.5W	19701	5053CX33K0DJ
A408R204	303-0222-00			RES,FXD,CMPSN:2.2K OHM,5%,1W	01121	GB2225
A408R205	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
A408R208	308-0304-00			RES,FXD,WW:1.5K OHM,1%,3W	44655	43F1K5
A408R212	321-0205-00			RES,FXD,FILM:1.33K OHM,1%,0.125W,TC=TO	19701	5033ED1K330F
A408R218	323-0706-01			RES,FXD,FILM:800 OHM,0.5%,0.5W,TC=TO	07716	CECD800FCD
A408R219	315-0220-00			RES,FXD,FILM:22 OHM,5%,0.25W	19701	5043CX22R0DJ
A408R220	315-0123-00			RES,FXD,FILM:12K OHM,5%,0.25W	57668	NTR25J-E12K0
A408R222	323-0706-01			RES,FXD,FILM:800 OHM,0.5%,0.5W,TC=TO	07716	CECD800FCD
A408R224	321-0205-00			RES,FXD,FILM:1.33K OHM,1%,0.125W,TC=TO	19701	5033ED1K330F
A408R225	315-0220-00			RES,FXD,FILM:22 OHM,5%,0.25W	19701	5043CX22R0DJ
A408R228	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
A408R233	308-0304-00			RES,FXD,WW:1.5K OHM,1%,3W	44655	43F1K5
A408R242	321-0205-00			RES,FXD,FILM:1.33K OHM,1%,0.5W,TC=TO	19701	5053CX1K330F
A408R244	301-0152-00			RES,FXD,FILM:1.5K OHM,5%,0.5W	19701	5053CX1K500J
A408R248	315-0475-00			RES,FXD,FILM:4.7M OHM,5%,0.25W	01121	CB4755
A408R253	315-0225-00			RES,FXD,FILM:2.2M OHM,5%,0.25W	01121	CB2255
A408R252	315-0472-00			RES,FXD,FILM:4.7K OHM,5%,0.25W	57668	NTR25J-E04K7
A408R254	315-0682-00			RES,FXD,FILM:6.8K OHM,5%,0.25W	57668	NTR25J-E06K8
A408R256	315-0510-00			RES,FXD,FILM:51 OHM,5%,0.25W	19701	5043CX51R0DJ
A408R258	315-0270-00			RES,FXD,FILM:27 OHM,5%,0.25W	19701	5043CX27R0DJ
A408R310	315-0391-00			RES,FXD,FILM:390 OHM,5%,0.25W	57668	NTR25J-E390E
A408R312	311-1222-00	8010100	8111279	RES,VAR,NONWW:TRMR,100 OHM,0.5W	32997	3386F-T04-101
A408R312	311-1223-00	8111280		RES,VAR,NONWW:TRMR,250 OHM,0.5W	32997	3386F-T04-251
A408R314	321-0126-00	8010100	8100776	RES,FXD,FILM:200 OHM,1%,0.125W,TC=TO	19701	5033ED200F0F
A408R314	321-0114-00	8100777		RES,FXD,FILM:150 OHM,1%,0.125 W,TC=TO	19701	5033ED150F0F
A408R315	321-0189-06			RES,FXD,FILM:1.15K OHM,0.25%,0.125W,TC=TO	07716	CEAE11500C
A408R318	321-0131-00			RES,FXD,FILM:226 OHM,1%,0.125W,TC=TO	19701	5033ED226R0F
A408R320	321-0183-00			RES,FXD,FILM:1K OHM,1%,0.125W,TC=TO	19701	5033ED1K00F
A408R321	321-0183-00			RES,FXD,FILM:1K OHM,1%,0.125W,TC=TO	19701	5033ED1K00F
A408R322	315-0513-00			RES,FXD,FILM:51K OHM,5%,0.25W	57668	NTR25J-E51K0
A408R323	315-0152-00			RES,FXD,FILM:1.5K OHM,5%,0.25W	57668	NTR25J-E01K5
A408R324	315-0620-00			RES,FXD,FILM:62 OHM,5%,0.25W	19701	5043CX62R0DJ
A408R325	315-0391-00			RES,FXD,FILM:390 OHM,5%,0.25W	57668	NTR25J-E390E
A408R326	321-0189-05			RES,FXD,FILM:1.15K OHM,0.25%,0.125W,TC=TO	07716	CEAE11500C
A408R328	315-0270-00			RES,FXD,FILM:27 OHM,5%,0.25W	19701	5043CX27R0DJ
A408R344	315-0100-00			RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX10R0DJ
A408R346	321-0285-03			RES,FXD,FILM:5.09K OHM,1%,0.125W,TC=TO	07716	CEA050900F
A408R348	321-0260-03			RES,FXD,FILM:8.06K OHM,1%,0.125W,TC=TO	19701	5033ED8K06F
A408R350	315-0562-00			RES,FXD,FILM:5.6K OHM,5%,0.25W	57668	NTR25J-E05K6
A408R352	321-0325-03			RES,FXD,FILM:[illegible]	07716	CEA0Z3701F
A408R354	321-0285-03			RES,FXD,FILM:5.09K OHM,1%,0.125W,TC=TO	07716	CEA050900F
A408R356	321-0385-03			RES,FXD,FILM:100K OHM,1%,0.125W,TC=TO	19701	5033ED100KOF
A408R357	321-0295-03			RES,FXD,FILM:11.5K OHM,1%,0.125W,TC=TO	07716	CEA011501F
A408R358	321-0399-03			RES,FXD,FILM:140K OHM,1%,0.125W,TC=TO	07716	CEA0140O2F
A408R406	307-0106-00			RES,FXD,CMPSN:4.7 OHM,5%,0.25W	01121	CB 4705
A408R408	307-0106-00			RES,FXD,CMPSN:4.7 OHM,5%,0.25W	01121	CB 4705
A408R412	321-0197-00			RES,FXD,FILM:1,10K OHM,1%,0.125W,TC=TO	07716	CEA0113O0F
A408R414	321-0078-00			RES,FXD,FILM:69.4 OHM,1%,0.125W,TC=TO	91637	CMF55116E69R4F
A408R415	323-0167-00			RES,FXD,FILM:536 OHM,1%,0.5W,TC=TO	07716	CECD536F0F

Component No	Tektronix Part No.	Serial/Assembly No. Effective	Dscont	Name & Description	Mfr. Code	Mfr. Part No
0408418	311-1456-00			RES,VAR,NONWW:TRMR,2K OHM,0.5W	32997	3386F-T04-202
0408420	315-0822-00			RES,FXD,FILM:8.2K OHM,5%,0.25W	19701	5043CX8K203J
0408422	323-0167-00			RES,FXD,FILM:536 OHM,1%,0.5W,TC=T0	07716	CEC0536R0F
0408424	321-0075-00			RES,FXD,FILM:63.4 OHM,1%,0.125W,TC=T0	91637	CMF55116G63R4F
0408426	315-0101-00			RES,FXD,FILM:100 OHM,5%,0.25W	57668	NTR25J-E 100E
0408428	321-0187-00			RES,FXD,FILM:1.10K OHM,1%,0.125W,TC=T0	07716	CEC01100F
0408430	321-0242-00			RES,FXD,FILM:3.24K OHM,1%,0.125W,TC=T0	19701	5043CX3K24F
0408432	321-0167-00			RES,FXD,FILM:536 OHM,1%,0.125W,TC=T0	07716	CEC0536R0F
0408434	315-0432-00			RES,FXD,FILM:4.3K OHM,5%,0.25W	57668	NTR25J-E04K3
0408436	315-0100-00			RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX10R00J
0408412	315-0100-00			RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX10R00J
0408444	315-0100-00			RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX10R00J
0408446	311-1235-00			RES,VAR,NONWW:100K OHM,0.5W	32997	3386F-T04-104
0408448	311-1235-00			RES,VAR,NONWW:100K OHM,0.5W	32997	3386F-T04-104
0408450	315-0472-00			RES,FXD,FILM:4.7K OHM,5%,0.25W	57668	NTR25J-E04K7
0408452	321-0338-00			RES,FXD,FILM:137K OHM,1%,0.125W,TC=T0	07716	CEA0137F0F
0408454	321-0388-00			RES,FXD,FILM:107K OHM,1%,0.125W,TC=T0	07716	CEA0107F0F
0408456	321-0303-00			RES,FXD,FILM:14.0K OHM,1%,0.125W,TC=T0	07716	CEA0 14001F
0408458	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25J-E01K0
0408502	315-0220-00			RES,FXD,FILM:22 OHM,5%,0.25W	19701	5043CX22R00J
0408504	315-0220-00			RES,FXD,FILM:22 OHM,5%,0.25W	19701	5043CX22R00J
0408508	315-0100-00			RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX10R00J
0408510	315-0100-00			RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX10R00J
0408512	315-0229-00			RES,FXD,FILM:22 OHM,5%,0.25W	19701	5043CX22R00J
0408513	315-0392-00	B100767		RES,FXD,FILM:3.9K OHM,5%,0.25W	57668	NTR25J-E03K9
0408515	315-0102-00	B100767		RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25J-E01K0
0408517	315-0103-00	B100767		RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10K00J
0408519	315-0153-00	B100767		RES,FXD,FILM:15K OHM,5%,0.25W	19701	5043CX15K00J
0408520	315-0433-00	B100767		RES,FXD,FILM:43K OHM,5%,0.25W	19701	5043CX43K00J
0408536	305-0204-00			RES,FXD,CMPSN:200K OHM,5%,2W	01121	HB2045
0408602	311-1235-00			RES,VAR,NONWW:100K OHM,0.5W	32997	3386F-T04-104
0408605	321-0406-00			RES,FXD,FILM:1.13 MEG OHM,1%,0.125W,TC=T0	19701	5033X01M130F
0408610	321-0446-00			RES,FXD,FILM:432K OHM,1%,0.125W,TC=T0	07716	CEA0432F0F
0408612	315-0471-00			RES,FXD,FILM:470 OHM,5%,0.25W	57668	NTR25J-E470E
0408614	315-0472-00	B010100	B039999	RES,FXD,FILM:4.7K OHM,5%,0.25W	57668	NTR25J-E04K7
0408616	315-0513-00			RES,FXD,FILM:51K OHM,5%,0.25W	57668	NTR25J-E51K0
0408618	311-1235-00			RES,VAR,NONWW:100K OHM,0.5W	32997	3386F-T04-104
0408620	321-0406-00	B010100	B039999	RES,FXD,FILM:1.13 MEG OHM,1%,0.125W,TC=T0	19701	5033X01M130F
0408620	321-0473-00	B040000		RES,FXD,FILM:825K OHM,1%,0.125W,TC=T0	07716	CEA0825F2F
0408622	315-0104-00			RES,FXD,FILM:100K OHM,5%,0.25W	57668	NTR25J-E100K
0408624	315-0153-00			RES,FXD,FILM:15K OHM,5%,0.25W	19701	5043CX15K00J
0408626	315-0156-00			RES,FXD,FILM:10M OHM,5%,0.25W	01121	CB1065
0408628	301-0166-00			RES,FXD,FILM:16M OHM,5%,0.5W	01121	EB1665
0408630	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
0408632	315-0223-00			RES,FXD,FILM:22K OHM,5%,0.25W	19701	5043CX22K00J/32U
0408634	315-0472-00			RES,FXD,FILM:4.7K OHM,5%,0.25W	57668	NTR25J-E04K7
0408638	321-0181-00			RES,FXD,FILM:750 OHM,1%,0.5W,TC=T0	75042	CECT0-7500F
0408704	321-0099-00			RES,FXD,FILM:47.5 OHM,0.5%,0.125W,TC=T0	91637	CMF55116G47R50F
0408706	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
0408708	321-0316-00			RES,FXD,FILM:19.1K OHM,1%,0.125W,TC=T0	07716	CEA0191F0F
0408710	315-0205-00			RES,FXD,FILM:2M OHM,5%,0.25W	01121	GB2055
0408712	321-0334-00			RES,FXD,FILM:29.4K OHM,1%,0.125W,TC=T0	07716	CEA0294F0F
0408714	315-0220-00			RES,FXD,FILM:22 OHM,5%,0.25W	19701	5043CX22R00J
0408716	321-0133-00			RES,FXD,FILM:270 OHM,1%,0.125W,TC=T0	07716	CEA0274F0F
0408722	315-0472-00			RES,FXD,FILM:4.7K OHM,5%,0.25W	57668	NTR25J-E04K7
0408724	315-0751-00			RES,FXD,FILM:750 OHM,5%,0.25W	57668	NTR25J-E750E
0408726	315-0202-00			RES,FXD,FILM:2K OHM,5%,0.25W	57668	NTR25J-E 2K
0408728	315-0220-00			RES,FXD,FILM:22 OHM,5%,0.25W	19701	5043CX22R00J
0408730	321-0392-00			RES,FXD,FILM:118K OHM,1%,0.125W,TC=T0	07716	CEA0118F2F

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Dscont	Name & Description	Mfr. Code	Mfr. Part No.
A408732	315-0121-00			RES,FXD,FILM:120 OHM,5%,0.25W	19701	5043CX120R0J
A408734	321-0324-00			RES,FXD,FILM:23.2K OHM,1%,0.125W,TC=T0	07716	CEA0232D1F
A408736	321-0264-00			RES,FXD,FILM:5.49K OHM,1%,0.125W,TC=T0	07716	CEA0549D0C
A408738	321-0243-00			RES,FXD,FILM:3.32K OHM,1%,0.125W,TC=T0	19701	5033ED3K32F
A408742	321-0357-00			RES,FXD,FILM:51.1K OHM,1%,0.125W,TC=T0	07716	CEA0511D1F
A408744	315-0104-00			RES,FXD,FILM:100K OHM,5%,0.25W	57668	NTR25J-E100K
A408802	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
A408804	321-0066-00			RES,FXD,FILM:47.5 OHM,0.5%,0.125W,TC=T0	91637	CMF5511604745DF
A408836	315-0110-00			RES,FXD,FILM:11 OHM,5%,0.25W	19701	5043CX11R0DJ
A408838	321-0210-00			RES,FXD,FILM:1.50K OHM,1%,0.125W,TC=T0	19701	5033ED1K50F
A408812	311-1226-00			RES,VAR,NONWM:TRMR,2.5K OHM,0.5W	32997	3386F-T04-252
A408818	323-0310-00			RES,FXD,FILM:16.5K OHM,1%,0.5W,TC=T0	75042	CEC70-1652F
A408824	315-0100-00			RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX100R0J
A408826	315-0104-00			RES,FXD,FILM:100K OHM,5%,0.25W	57668	NTR25J-E100K
A408830	321-0313-00			RES,FXD,FILM:17.8K OHM,1%,0.125W,TC=T0	07716	CEA0178D1F
A408832	321-0164-00			RES,FXD,FILM:499 OHM,1%,0.125W,TC=T0	19701	5033ED499R0F
A408836	315-0752-00			RES,FXD,FILM:7.5K OHM,5%,0.25W	57668	NTR25J-E07K5
A408838	322-0643-00			RES,FXD,FILM:600K OHM,1%,0.25W,TC=T0	19701	5043RD60000F
A408840	315-0248-00			RES,FXD,FILM:24 OHM,5%,0.25W	57668	NTR25J-E24E0
A408T316	307-0124-00			RES,THERMAL:5K OHM,10%,NTC	15454	*DC502K-220-EC
A40U612	156-0223-00	B010100	B100766	MICROCKT,LINEAR:DPNL BARL	04713	LM308N
A40U612	156-0512-02	B100767		MICROCKT,LINEAR:DPNL BARL,SELECTED	04713	LM308J-B05
A40V86	152-0282-00			SEMICOND DVC,DI:IDEN,SI,30V,5%,0.4W,DO-7	04713	S2035009K13
A40V8304	152-0149-00			SEMICOND DVC,DI:IDEN,SI,10V,5%,0.4W,DO-7	15238	ZS408
A40V8632	152-0243-00	B040000		SEMICOND DVC,DI:IDEN,SI,15V,5%,0.4W,DO-7	04713	S213203 (1N965B)
A40V8718	152-0280-00			SEMICOND DVC,DI:IDEN,SI,6.2V,5%,0.4W,DO-7	04713	1N753A
A4301	670-6789-00	B040000	B080725	CIRCUIT BD ASSY:HIGH VOLTAGE SHUTDOWN	80009	672-6789-00
A4301	670-6789-01	B080730	B100765	CIRCUIT BD ASSY:HIGH VOLTAGE SHUTDOWN	80009	672-6789-01
A4301CR515	152-0141-02	B040000	B100766	SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	042527 (1N4152)
A4301CR519	152-0141-02	B040000	B100766	SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	042527 (1N4152)
A4301Q515	151-0150-00	B040000	B100766	TRANSISTOR:NPN,SI,TO-92	80009	151-0150-00
A4301Q519	151-0220-00	B040000	B100766	TRANSISTOR:PNP,SI,TO-92	80009	151-0220-00
A4301R513	315-0103-00	B040000	B100766	RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX103R0J
A4301R515	315-0153-00	B040000	B100766	RES,FXD,FILM:15K OHM,5%,0.25W	19701	5043CX153R0J
A4301R517	315-0392-00	B040000	B100766	RES,FXD,FILM:3.9K OHM,5%,0.25W	57668	NTR25J-E03K9
A4301R519	315-0621-00	B040000	B080729	RES,FXD,FILM:620 OHM,5%,0.25W	57668	NTR25J-E620E
A4301R519	315-0102-00	B080730		RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
A4301R523	315-0433-00	B040000	B100765	RES,FXD,FILM:43K OHM,5%,0.25W	19701	5043CX433R0J
A44	670-1625-06	B010100	B111577	CIRCUIT BD ASSY:VERTICAL INTERFACE	80009	670-1625-06
A44	670-8897-00	B111578		CIRCUIT BD ASSY:VERT INTFC	80009	670-8897-00
A44C4805	281-0788-00			CAP,FXD,CER DI:470PF,10%,100V	04222	M81081C471K3A
A44C4810	283-0114-00			CAP,FXD,CER DI:1500PF,5%,200V	59660	805-534-Y5S152J
A44C4811	283-0258-00			CAP,FXD,CER DI:0.015UF,20%,50V	04222	3439-050C-153X
A44C4813	281-0788-00			CAP,FXD,CER DI:470PF,10%,100V	04222	M81081C471K3A
A44C4815	281-0515-00			CAP,FXD,CER DI:3.9PF,+/-0.5PF,200V	52763	290FL1D07 3P900C
A44C4865	281-0788-00			CAP,FXD,CER DI:470PF,10%,100V	04222	M81081C471K3A
A44C4875	281-0788-00			CAP,FXD,CER DI:470PF,10%,100V	04222	M81081C471K3A
A44C4877	283-0114-00			CAP,FXD,CER DI:1500PF,5%,200V	59660	805-534-Y5S152J
A44C4878	283-0258-00			CAP,FXD,CER DI:0.015UF,20%,50V	04222	3439-050C-153X
A44CR4843	152-0075-00	B010100	B111766	SEMICOND DVC,DI:SW,GE,22V,80MW,DO-7	14433	GR60
A44CR4843	152-0664-00	B111767		SEMICOND DVC,DI:SCHOTTKY,SM,SI,70V,DO-35	80009	152-0664-00
A44CR4858	152-0075-00	B010100	B111766	SEMICOND DVC,DI:SW,GE,22V,80MW,DO-7	14433	GR60
A44CR4858	152-0664-00	B111767		SEMICOND DVC,DI:SCHOTTKY,SM,SI,70V,DO-35	80009	152-0664-00
A44Q4833	151-0302-00			TRANSISTOR:NPN,SI,TO-18	04713	ST899
A44Q4852	151-0302-00			TRANSISTOR:NPN,SI,TO-18	04713	ST899

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Descnt	Name & Description	Mfr. Code	Mfr. Part No.
R4496602	325-0044-00			RES,FXD,FILM:100 OHM,0.5%,0.05W,TC=150PPM	91637	CMF5001000RD
R4496603	325-0134-00			RES,FXD,FILM:105 OHM,0.5%,0.05W,TC=TO	03888	PME55 105 0.5%
R4496605	323-0134-00			RES,FXD,FILM:243 OHM,1%,0.5W,TC=TO	07716	CEC0243R0F
R4496607	321-0125-00			RES,FXD,FILM:200 OHM,1%,0.125W,TC=TO	19701	5033ED200R0F
R4496608	321-0125-00			RES,FXD,FILM:200 OHM,1%,0.125W,TC=TO	19701	5033ED200R0F
R4496610	315-0621-00			RES,FXD,FILM:620 OHM,5%,0.25W	57668	NTR25J-E620E
R4496611	315-0561-00			RES,FXD,FILM:560 OHM,5%,0.25W	19701	5043CX560RJ
R4496613	323-0134-00			RES,FXD,FILM:243 OHM,1%,0.5W,TC=TO	07716	CEC0243R0F
R4496615	321-0119-00			RES,FXD,FILM:162 OHM,1%,0.125W,TC=TO	07716	CEC0162R0F
R4496616	321-0119-00			RES,FXD,FILM:162 OHM,1%,0.125W,TC=TO	07716	CEC0162R0F
R4496617	321-0049-00			RES,FXD,FILM:33.2 OHM,1%,0.125W,TC=TO	57668	RN14 F0E 3320
R4496618	321-0049-00			RES,FXD,FILM:33.2 OHM,1%,0.125W,TC=TO	57668	RN14 F0E 3320
R4496619	311-1253-00			RES,VAR,NONWIR:TRMR,100 OHM,0.5W	32997	3329P-L50-101
R4496620	325-0111-00			RES,FXD,FILM:105 OHM,0.5%,0.05W,TC=TO	03888	PME55 105 0.5%
R4496621	325-0044-00			RES,FXD,FILM:100 OHM,0.5%,0.05W,TC=150PPM	91637	CMF5001000RD
R4496622	317-0560-00			RES,FXD,CMPSN:56 OHM,5%,0.125W	01121	BB5605
R4496623	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
R4496625	325-0044-00			RES,FXD,FILM:100 OHM,0.5%,0.05W,TC=150PPM	91637	CMF5001000RD
R4496627	325-0044-00			RES,FXD,FILM:100 OHM,0.5%,0.05W,TC=150PPM	91637	CMF5001000RD
R4496631	321-0097-00			RES,FXD,FILM:100 OHM,1%,0.125W,TC=TO	91637	CMF55196G100R0F
R4496632	315-0301-00			RES,FXD,FILM:300 OHM,5%,0.25W	57668	NTR25J-E300E
R4496634	315-0121-00			RES,FXD,FILM:120 OHM,5%,0.25W	19701	5043CX120RJ
R4496636	315-0132-00			RES,FXD,FILM:1.3K OHM,5%,0.25W	57668	NTR25J-E01K3
R4496638	315-0121-00			RES,FXD,FILM:120 OHM,5%,0.25W	19701	5043CX120RJ
R4496640	315-0511-00			RES,FXD,FILM:510 OHM,5%,0.25W	19701	5043CX510RJ
R4496642	315-0132-00			RES,FXD,FILM:1.3K OHM,5%,0.25W	57668	NTR25J-E01K3
R4496643	315-0181-00			RES,FXD,FILM:180 OHM,5%,0.25W	57668	NTR25J-E180E
R4496645	315-0121-00			RES,FXD,FILM:120 OHM,5%,0.25W	19701	5043CX120RJ
R4496647	315-0132-00			RES,FXD,FILM:1.3K OHM,5%,0.25W	57668	NTR25J-E01K3
R4496649	315-0121-00			RES,FXD,FILM:120 OHM,5%,0.25W	19701	5043CX120RJ
R4496650	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
R4496652	315-0181-00			RES,FXD,FILM:180 OHM,5%,0.25W	57668	NTR25J-E180E
R4496656	315-0362-00			RES,FXD,FILM:3.6K OHM,5%,0.25W	19701	5043CX3K60J
R4496657	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
R4496662	325-0044-00			RES,FXD,FILM:100 OHM,0.5%,0.05W,TC=150PPM	91637	CMF5001000RD
R4496663	325-0111-00			RES,FXD,FILM:105 OHM,0.5%,0.05W,TC=TO	03888	PME55 105 0.5%
R4496665	323-0134-00			RES,FXD,FILM:243 OHM,1%,0.5W,TC=TO	07716	CEC0243R0F
R4496667	321-0125-00			RES,FXD,FILM:200 OHM,1%,0.125W,TC=TO	19701	5033ED200R0F
R4496668	321-0125-00			RES,FXD,FILM:200 OHM,1%,0.125W,TC=TO	19701	5033ED200R0F
R4496669	317-0101-00			RES,FXD,CMPSN:100 OHM,5%,0.125W	01121	BB1015
R4496673	323-0134-00			RES,FXD,FILM:243 OHM,1%,0.5W,TC=TO	07716	CEC0243R0F
R4496675	321-0125-00			RES,FXD,FILM:200 OHM,1%,0.125W,TC=TO	19701	5033ED200R0F
R4496676	321-0125-00			RES,FXD,FILM:200 OHM,1%,0.125W,TC=TO	19701	5033ED200R0F
R4496677	315-0621-00			RES,FXD,FILM:620 OHM,5%,0.25W	57668	NTR25J-E620E
R4496678	315-0561-00			RES,FXD,FILM:560 OHM,5%,0.25W	19701	5043CX560RJ
R4496680	325-0134-00			RES,FXD,FILM:105 OHM,0.5%,0.05W,TC=TO	03888	PME55 105 0.5%
R4496681	325-0044-00			RES,FXD,FILM:100 OHM,0.5%,0.05W,TC=150PPM	91637	CMF5001000RD
R4496683	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
R4496685	325-0044-00			RES,FXD,FILM:100 OHM,0.5%,0.05W,TC=150PPM	91637	CMF5001000RD
R4496687	325-0044-00			RES,FXD,FILM:100 OHM,0.5%,0.05W,TC=150PPM	91637	CMF5001000RD
R4496689	-------			(SELECTED)		
A4U4625	155-0095-01	B010100	B010189	MICROCKT,LINEAR:HF DIFFERENTIAL AMPLIFIER, PAIR	80009	155-0095-01
A4U4625	155-0095-03	B010190		MICROCKT,LINEAR:HF DIFF AMPL,TESTED PAIR	80009	155-0095-03
A4U4641	156-0048-00			MICROCKT,LINEAR:5 BIT DRIVER	02735	CA3246
A4U4625	-------			(PART OF A4U4625)		
A4U4625	-------			(PART OF A4U4625)		
A4U4625	-------			(PART OF A4U4625)		
J46	-------			CKT BOARD ASSY:PLUG-IN INTERFACE		

Component No	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Discont	Name & Description	Mfr. Code	Mfr. Part No.
				(NOT REPLACEABLE UNDER 672-0688-01 OR 672-0734-00 FOR OPTION 5A)		
A46C10	283-0115-00	B100837		CAP,FXD,CER DI:47PF,5%,200V	59821	200Z5C047DJ
A46C32	281-0547-00	B100837		CAP,FXD,CER DI:2.7PF,+/-0.25PF,500V	52763	290PL2007 2P700C
A46C34	281-0503-00	B100837		CAP,FXD,CER DI:8PF,+/-0.5PF,500V	52763	290PL2007 8P000C
A46C38	283-0115-00	B010100	B100836	CAP,FXD,CER DI:47PF,5%,200V	59821	200Z5C047DJ
A46C102	290-0782-00	B100837		CAP,FXD,ELCTLT:6.7UF,+75-10%,35VDC	55680	ULB1V687T6AMN
A46C112	281-0523-00	B100837		CAP,FXD,CER DI:100PF,20%,350V	52763	290PL2007 100PNJ
A46C116	283-0000-00	B100837		CAP,FXD,CER DI:0.011UF,+100-0%,500V	59660	831-610-Y5U0102P
A46C118	283-0024-00	B010100	B100836	CAP,FXD,CER DI:0.1UF,+80-20%,50V	04222	SR215C104MAA
A46C120	283-0024-00	B100837		CAP,FXD,CER DI:0.1UF,+80-20%,50V	04222	SR215C104MAA
A46C122	283-0024-00	B100837		CAP,FXD,CER DI:0.1UF,+80-20%,50V	04222	SR215C104MAA
A46C126	283-0024-00	B100837		CAP,FXD,CER DI:0.1UF,+80-20%,50V	04222	SR215C104MAA
A46C132	283-0000-00	B010100	B100836	CAP,FXD,CER DI:0.001UF,+100-0%,500V	59660	831-610-Y5U0102P
A46C133	283-0024-00	B010100	B100836	CAP,FXD,CER DI:0.1UF,+80-20%,50V	04222	SR215C104MAA
A46C134	290-0782-00	B010100	B100836	CAP,FXD,ELCTLT:6.7UF,+75-10%,35VDC	55680	ULB1V687T6AMN
A46C134	283-0000-00	B100837		CAP,FXD,CER DI:0.001UF,+100-0%,500V	59660	831-610-Y5U0102P
A46C136	281-0523-00	B010100	B100836	CAP,FXD,CER DI:100PF,20%,350V	52763	290PL2007 100PNJ
A46C136	283-0003-00	B100837		CAP,FXD,CER DI:0.01UF,+80-20%,150V	59821	D103Z40Z5SUJCEX
A46C138	283-0000-00			CAP,FXD,CER DI:0.001UF,+100-0%,500V	59660	831-610-Y5U0102P
A46C138	283-0000-00	B100837		CAP,FXD,CER DI:0.001UF,+100-0%,500V	59660	831-610-Y5U0102P
A46C142	283-0024-00	B010100	B100836	CAP,FXD,CER DI:0.1UF,+80-20%,50V	04222	SR215C104MAA
A46C142	283-0003-00	B100837		CAP,FXD,CER DI:0.01UF,+80-20%,150V	59821	D103Z40Z5SUJCEX
A46C212	283-0003-00	B010100	B100836	CAP,FXD,CER DI:0.01UF,+80-20%,150V	59821	D103Z40Z5SUJCEX
A46C214	283-0024-00	B100837		CAP,FXD,CER DI:0.1UF,+80-20%,50V	04222	SR215C104MAA
A46C216	283-0000-00	B100837		CAP,FXD,CER DI:0.001UF,+100-0%,500V	59660	831-610-Y5U0102P
A46C222	283-0000-00	B010100	B100836	CAP,FXD,CER DI:0.001UF,+100-0%,500V	59660	831-610-Y5U0102P
A46C224	283-0024-00	B010100	B100836	CAP,FXD,CER DI:0.1UF,+80-20%,50V	04222	SR215C104MAA
A46C226	283-0024-00	B010100	B100836	CAP,FXD,CER DI:0.1UF,+80-20%,50V	04222	SR215C104MAA
A46C232	283-0000-00	B100837		CAP,FXD,CER DI:0.001UF,+100-0%,500V	59660	831-610-Y5U0102P
A46C234	281-0547-00	B010100	B100836	CAP,FXD,CER DI:2.7PF,+/-0.25PF,500V	52763	290PL2007 2P700C
A46C234	281-0503-00	B100837		CAP,FXD,CER DI:8PF,5%,500V	52763	290PL2007 8P000C
A46C236	281-0503-00	B010100	B100836	CAP,FXD,CER DI:8PF,+/-0.5PF,500V	52763	290PL2007 8P000C
A46C236	281-0547-00	B100837		CAP,FXD,CER DI:2.7PF,+/-0.25PF,500V	52763	290PL2007 2P700C
A46C238	281-0503-00	B100837		CAP,FXD,CER DI:8PF,+/-0.5PF,500V	52763	290PL2007 8P000C
A46C239	283-0003-00	B100837		CAP,FXD,CER DI:0.01UF,+80-20%,150V	59821	D103Z40Z5SUJCEX
A46C242	283-0670-00	B100837		CAP,FXD,MICA DI:375PF,1%,500V	00853	D155F375DF0
A46C244	283-0000-00	B010100	B100836	CAP,FXD,CER DI:0.001UF,+100-0%,500V	59660	831-610-Y5U0102P
A46C244	283-0024-00	B100837		CAP,FXD,CER DI:0.1UF,+80-20%,50V	04222	SR215C104MAA
A46C246	283-0024-00	B100837		CAP,FXD,CER DI:0.1UF,+80-20%,50V	04222	SR215C104MAA
A46C248	290-0529-00	B100837		CAP,FXD,ELCTLT:47UF,20%,20V	05397	T368C476M020AS
A46C310	283-0203-00	B100837		CAP,FXD,CER DI:0.47UF,20%,50V	04222	SR305C474MAA
A46C312	281-0503-00	B010100	B100836	CAP,FXD,CER DI:8PF,5%,500V	52763	290PL2007 8P000C
A46C312	283-0000-00	B100837		CAP,FXD,CER DI:0.001UF,+100-0%,500V	59660	831-610-Y5U0102P
A46C314	281-0505-00	B100837		CAP,FXD,CER DI:12PF,10%,500V	59660	301-0000C0G0-120K
A46C316	283-0670-00	B010100	B100836	CAP,FXD,MICA DI:375PF,1%,500V	00853	D155F375DF0
A46C316	290-0778-00	B100837		CAP,FXD,ELCTLT:10F,+50 -10%,50V,NPLZD	54473	ECE-A50H1
A46C318	281-0505-00	B100837		CAP,FXD,CER DI:12PF,10%,500V	59660	301-0000C0G0-120K
A46C322	283-0024-00	B100837		CAP,FXD,CER DI:0.1UF,+80-20%,50V	04222	SR215C104MAA
A46C324	281-0547-00	B010100	B100836	CAP,FXD,CER DI:2.7PF,+/-0.25PF,500V	52763	290PL2007 2P700C
A46C326	281-0503-00	B010100	B100836	CAP,FXD,CER DI:8PF,+/-0.5PF,500V	52763	290PL2007 8P000C
A46C326	283-0000-00	B010100	B100836	CAP,FXD,CER DI:0.001UF,+100-0%,500V	59660	831-610-Y5U0102P
A46C336	283-0110-00	B100837		CAP,FXD,CER DI:0.005UF,+80-20%,150V	59660	855-547-E-502I
A46C337	283-0203-00	B010100	B100836	CAP,FXD,CER DI:0.47UF,20%,50V	04222	SR305C474MAA
A46C338	283-0024-00	B010100	B100836	CAP,FXD,CER DI:0.1UF,+80-20%,50V	04222	SR215C104MAA
A46C339	283-0003-00	B010100	B100836	CAP,FXD,CER DI:0.01UF,+80-20%,150V	59821	D103Z40Z5SUJCEX
A46C344	290-0529-00	B100837		CAP,FXD,ELCTLT:47UF,20%,20V	05397	T368C476M020AS
A46C346	290-0778-00	B100837		CAP,FXD,ELCTLT:100UF,+50-10%,25VDC	54473	ECE-A25V101L
A46C402	283-0003-00	B100837		CAP,FXD,CER DI:0.01UF,+80-20%,150V	59821	D103Z40Z5SUJCEX

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Dscont	Name & Description	Mfr. Code	Mfr. Part No.
A46C810	283-0003-00	B010100	B100836	CAP,FXD,CER DI:0.01UF,+80-20%,150V	59821	D103Z40Z5SU0CE3
A46C812	283-0219-00	B010100	B100836	CAP,FXD,CER DI:1500PF,20%,50V	51642	DB100C501SU152M
A46C818	283-0219-00	B010100	B100836	CAP,FXD,CER DI:1500PF,20%,50V	51642	DB100C501SU152M
A46C822	283-0178-00	B010100	B100836	CAP,FXD,CER DI:0.0022UF,20%,50V	04222	SR205C222MAA
A46C826	283-0178-00	B010100	B100836	CAP,FXD,CER DI:0.0022UF,20%,50V	04222	SR205C222MAA
A46C832	283-0178-00	B100837		CAP,FXD,CER DI:0.0022UF,20%,50V	04222	SR205C222MAA
A46C836	283-0178-00	B100837		CAP,FXD,CER DI:0.0022UF,20%,50V	04222	SR215C222MAA
A46C838	283-0110-00	B010100	B100835	CAP,FXD,CER DI:0.005UF,+80-20%,150V	59660	855-547-E-5022
A46C842	283-0110-00	B100837		CAP,FXD,CER DI:0.005UF,+80-20%,150V	59660	855-547-E-5022
A46C904	283-0028-00	B100837		CAP,FXD,CER DI:0.022UF,20%,50V	59660	0805585Y5S0222M
A46C908	283-0028-00	B010100	B100835	CAP,FXD,CER DI:0.022UF,20%,50V	59660	0805585Y5S0222M
A46C938	283-0003-00	B010100	B100835	CAP,FXD,CER DI:0.01UF,+80-20%,150V	59821	D103Z40Z5SU0CEX
A46C914	281-0505-00	B010100	B100836	CAP,FXD,CER DI:12PF,10%,500V	59660	301-000C060-120K
A46C916	290-0778-00	B010100	B100836	CAP,FXD,ELCTLT:10F,+50 -10%,50V,NPLCD	54473	ECE-G0V0R1
A46C922	283-0110-00	B010100	B100836	CAP,FXD,CER DI:0.005UF,+80-20%,150V	59660	855-547-E-5022
A46C924	283-0003-00	B010100	B100836	CAP,FXD,CER DI:0.01UF,+80-20%,150V	59821	D103Z40Z5SU0CE3
A46C928	283-0219-00	B100837		CAP,FXD,CER DI:1500PF,20%,50V	51642	DB100C501SU152M
A46C932	283-0110-00	B010100	B100836	CAP,FXD,CER DI:0.005UF,+80-20%,150V	59660	855-547-E-5022
A46C936	290-0538-00	B010100	B100836	CAP,FXD,ELCTLT:10UF,20%,25V TANTALUM	05397	T368B106M025AS
A46C940	283-0219-00	B100837		CAP,FXD,CER DI:1500PF,20%,50V	51642	DB100C501SU152M
A46C942	283-0024-00	B010100	B100836	CAP,FXD,CER DI:0.1UF,+80-20%,50V	04222	SR215C104MAA
A46C942	283-0110-00	B100837		CAP,FXD,CER DI:0.005UF,+80-20%,150V	59660	855-547-E-5022
A46C828	283-0051-00	B100837		CAP,FXD,CER DI:0.0033UF,5%,100V	04222	SR301C332JAA
A46C842	283-0003-00	B100837		CAP,FXD,CER DI:0.01UF,+80-20%,150V	59821	D103Z40Z5SU0CEX
A46C844	290-0536-00	B100837		CAP,FXD,ELCTLT:10UF,20%,25V TANTALUM	05397	T368B106M025AS
A46C846	283-0003-00	B010100	B100835	CAP,FXD,CER DI:0.01UF,+80-20%,150V	59821	D103Z40Z5SU0CEX
A46C708	283-0003-00	B100837		CAP,FXD,CER DI:0.01UF,+80-20%,150V	59821	D103Z40Z5SU0CEX
A46C714	281-0605-00	B100837		CAP,FXD,CER DI:200PF,10%,500V	59660	301000T502J1K
A46C726	283-0051-00	B030515	B100835	CAP,FXD,CER DI:0.0033UF,5%,100V	04222	SR301C332JAA
A46C728	281-0651-00	B010100	B030514	CAP,FXD,CER DI:47PF,5%,200V	52763	29EPL1007 47P0J
A46C728	281-0605-00	B030515	B100835	CAP,FXD,CER DI:200PF,10%,500V	59660	301000T502J1K
A46C800	281-0773-00	B010100	B100835	CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A46C814	281-0605-00	B100837		CAP,FXD,CER DI:200PF,10%,500V	59660	301000T502J1K
A46C818	281-0605-00	B010100	B100835	CAP,FXD,CER DI:12PF,10%,500V	59660	301-000C060-120K
A46C822	281-0651-00	B010100	B030514	CAP,FXD,CER DI:47PF,5%,200V	52763	29EPL1007 47P0J
A46C822	281-0605-00	B030515	B100835	CAP,FXD,CER DI:200PF,10%,500V	59660	301000T502J1K
A46C826	290-0529-00	B010100	B100835	CAP,FXD,ELCTLT:47UF,20%,20V	05397	T362C476M020AS
A46C828	290-0716-00	B010100	B100835	CAP,FXD,ELCTLT:8.2UF,20%,75V	05397	T110C825M075AS
A46C838	290-0716-00	B100837		CAP,FXD,ELCTLT:8.2UF,20%,75V	05397	T110C825M075AS
A46C902	281-0773-00	B100837		CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A46C916	283-0024-00	B010100	B100835	CAP,FXD,CER DI:0.1UF,+80-20%,50V	04222	SR215C104MAA
A46C918	290-0770-00	B010100	B100835	CAP,FXD,ELCTLT:100UF,+50-10%,25VDC	54473	ECE-G2V100L
A46C920	283-0024-00	B100837		CAP,FXD,CER DI:0.1UF,+80-20%,50V	04222	SR215C104MAA
A46C938	290-0529-00	B010100	B100835	CAP,FXD,ELCTLT:47UF,20%,20V	05397	T362C476M020AS
A46C946	290-0716-00	B010100	B100835	CAP,FXD,ELCTLT:8.2UF,20%,75V	05397	T110C825M075AS
A46C948	290-0716-00	B100837		CAP,FXD,ELCTLT:8.2UF,20%,75V	05397	T110C825M075AS
A46C922	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30W,00-35	07263	002527 (1N4152)
A46C924	152-0141-02	B010100	B100836	SEMICOND DVC,DI:SW,SI,30V,150MA,30W,00-35	07263	002527 (1N4152)
A46C942	152-0141-02	B010100	B100836	SEMICOND DVC,DI:SW,SI,30V,150MA,30W,00-35	07263	002527 (1N4152)
A46C8112	152-0141-02	B100837		SEMICOND DVC,DI:SW,SI,30V,150MA,30W,00-35	07263	002527 (1N4152)
A46C8114	152-0141-02	B100837		SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	07263	002527 (1N4152)
A46C8116	152-0075-00	B100837		SEMICOND DVC,DI:SW,GE,22V,90MW,00-7	14433	GD88
A46C8126	152-0075-00	B010100	B100836	SEMICOND DVC,DI:SW,GE,22V,90MW,00-7	14433	GD88
A46C8128	152-0141-02	B100837		SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	07263	002527 (1N4152)
A46C8136	152-0141-02	B010100	B100836	SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	07263	002527 (1N4152)
A46C8138	152-0141-02	B010100	B100836	SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	07263	002527 (1N4152)
A46C8222	152-0141-02	B100837		SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	07263	002527 (1N4152)
A46C8226	152-0141-02	B010100	B100836	SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	07263	002527 (1N4152)
A46C8322	152-0141-02	B100837		SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	07263	002527 (1N4152)

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Discont	Name & Description	Mfr. Code	Mfr. Part No.
D46C0324	152-0141-02	B010100	B100836	SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46C0446	152-0141-02	B100837		SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46C0512	152-0141-02	B100837		SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46C0508	152-0141-02	B010100	B100836	SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46C0512	152-0141-02	B100837		SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46C0514	152-0141-02	B100837		SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46CR542	152-0141-02	B100837		SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46CR544	152-0141-02	B100837		SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46CR546	152-0141-02	B100837		SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46CR548	152-0141-02	B010100	B100836	SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46CR602	152-0141-02	B010100	B100836	SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46CR614	152-0141-02	B010100	B100836	SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46CR616	152-0141-02	B010100	B100836	SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46CR632	152-0141-02	B010100	B100836	SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46CR702	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46CR704	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46CR706	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46CR708	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46CR712	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46CR714	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46CR716	152-0141-02	B010100	B100836	SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46CR718	152-0141-02	B010100	B100836	SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46CR720	152-0141-02	B100837		SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46CR721	152-0141-02	B100837		SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46CR722	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46CR723	152-0141-02	B100837		SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46CR724	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46CR725	152-0141-02	B100837		SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46CR726	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46CR727	152-0141-02	B100837		SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46CR728	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46CR729	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46CR744	152-0141-02	B010100	B100836	SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46C0902	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46C0904	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46C0906	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46C0908	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46C0909	152-0141-02	B010100	B100836	SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46C0914	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46C0916	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46C0918	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46C0919	152-0141-02	B010100	B100836	SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46C0920	152-0141-02	B100837		SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46C0921	152-0141-02	B100837		SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46C0922	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46C0923	152-0141-02	B100837		SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46C0924	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46C0925	152-0141-02	B100837		SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46C0926	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46C0927	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46C0928	152-0141-02	B010100	B100836	SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46C0929	152-0141-02	B010100	B100836	SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46C0932	152-0141-02	B010100	B100836	SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46C0934	152-0141-02	B010100	B100836	SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46C0948	290-0716-00	B100837		CAP,FXD,ELCTLT:8.2UF,20%,75V	05397	T110C825M075AS
D46C0906	152-0141-02	B010100	B100836	SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46C0908	152-0141-02	B010100	B100836	SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46C0934	152-0141-02	B100837		SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
D46C0936	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Descnt	Name & Description	Mfr. Code	Mfr. Part No.
A46D1938	152-0141-02	B010100	B100836	SEMICOND DVC,DI:SM,SI,30V,150MA,30V,00-35	03508	002527 (1N4152)
A46E18	276-0507-00	B100837		SHLD BEAD,ELEC:FERRITE	02114	56-590-650/33
A46E36	276-0507-00	B010100	B100836	SHLD BEAD,ELEC:FERRITE	02114	56-590-650/33
A46L136	108-0245-00	B100837		CHOKE,RF:FIXED,3.9UH	76493	86310-1
A46L142	108-0245-00	B100837		CHOKE,RF:FIXED,3.9UH	76493	86310-1
A46L216	108-0245-00	B100837		CHOKE,RF:FIXED,3.9UH	76493	86310-1
A46L222	108-0245-00	B010100	B100836	CHOKE,RF:FIXED,3.9UH	76493	86310-1
A46L226	108-0245-00	B010100	B100836	CHOKE,RF:FIXED,3.9UH	76493	86310-1
A46L242	108-0245-00	B100837		CHOKE,RF:FIXED,3.9UH	76493	86310-1
A46L248	108-0245-00	B100837		CHOKE,RF:FIXED,3.9UH	76493	86310-1
A46L248	108-0245-00	B100837		CHOKE,RF:FIXED,3.9UH	76493	86310-1
A46L314	108-0245-00	B010100	B100836	CHOKE,RF:FIXED,3.9UH	76493	86310-1
A46L336	108-0245-00	B010100	B100836	CHOKE,RF:FIXED,3.9UH	76493	86310-1
A46L446	108-0245-00	B010100	B100836	CHOKE,RF:FIXED,3.9UH	76493	86310-1
A46L526	108-0245-00	B010100	B100836	CHOKE,RF:FIXED,3.9UH	76493	86310-1
A46L8226	108-0329-00	B100837		COIL,RF:FIXED,2.4UH	TK2042	ORDER BY DESCR
A46L8226	108-0329-00	B010100	B100836	COIL,RF:FIXED,2.4UH	TK2042	ORDER BY DESCR
A46L8336	108-0729-00	B010100	B100836	COIL,RF:FIXED,195NH	80009	108-0729-00
A46LR402	108-0325-00	B100837		COIL,RF:FIXED,489NH	TK2042	ORDER BY DESCR
A46LR410	108-0325-00	B010100	B100836	COIL,RF:FIXED,489NH	TK2042	ORDER BY DESCR
A46LR426	108-0729-00	B100837		COIL,RF:FIXED,195NH	80009	108-0729-00
A46LR428	108-0325-00	B010100	B100836	COIL,RF:FIXED,489NH	TK2042	ORDER BY DESCR
A46LR435	108-0325-00	B100837		COIL,RF:FIXED,489NH	TK2042	ORDER BY DESCR
A46LR442	108-0325-00	B100837		COIL,RF:FIXED,489NH	TK2042	ORDER BY DESCR
A46LR524	108-0325-00	B010100	B100836	COIL,RF:FIXED,489NH	TK2042	ORDER BY DESCR
A46LR534	108-0325-00	B010100	B100836	COIL,RF:FIXED,489NH	TK2042	ORDER BY DESCR
A46LR542	108-0325-00	B100837		COIL,RF:FIXED,489NH	TK2042	ORDER BY DESCR
A46Q12	151-0127-00	B100837		TRANSISTOR:NPN,SI,TO-18	04713	SL6073A
A46Q14	151-0127-00	B100837		TRANSISTOR:NPN,SI,TO-18	04713	SL6073A
A46Q18	151-0271-00	B100837		TRANSISTOR:PNP,SI,TO-92	04713	SPS8236
A46Q26	151-0199-00	B100837		TRANSISTOR:PNP,SI,TO-92	27014	ST65057
A46Q32	151-0223-00	B100837		TRANSISTOR:NPN,SI,TO-92	04713	SPS8026
A46Q36	151-0271-00	B010100	B100836	TRANSISTOR:PNP,SI,TO-92	04713	SPS8236
A46Q122	151-0199-00	B010100	B100836	TRANSISTOR:PNP,SI,TO-92	27014	ST65057
A46Q126	151-0127-00	B010100	B100836	TRANSISTOR:NPN,SI,TO-18	04713	SL6073A
A46Q130	151-0127-00	B010100	B100836	TRANSISTOR:NPN,SI,TO-18	04713	SL6073A
A46Q222	151-0199-00	B100837		TRANSISTOR:PNP,SI,TO-92	27014	ST65057
A46Q226	151-0199-00	B100837		TRANSISTOR:PNP,SI,TO-92	27014	ST65057
A46Q228	151-0199-00	B010100	B100836	TRANSISTOR:PNP,SI,TO-92	27014	ST65057
A46Q232	151-0223-00	B100837		TRANSISTOR:NPN,SI,TO-92	04713	SPS8026
A46Q236	151-0199-00	B010100	B100836	TRANSISTOR:PNP,SI,TO-92	27014	ST65057
A46Q238	151-0223-00	B010100	B100836	TRANSISTOR:NPN,SI,TO-92	04713	SPS8026
A46Q326	151-0223-00	B010100	B100836	TRANSISTOR:NPN,SI,TO-92	04713	SPS8026
A46Q406	151-0192-00	B010100	B100836	TRANSISTOR:SELECTED	04713	SPS8801
A46Q422	151-0352-00	B010100	B100836	TRANSISTOR:PNP,SI,U-43	04713	SMT1105
A46Q426	151-0352-00	B010100	B100836	TRANSISTOR:PNP,SI,U-43	04713	SMT1105
A46Q502	151-0188-00	B010100	B100836	TRANSISTOR:PNP,SI,TO-92	80009	151-0188-00
A46Q502	151-0192-00	B100837		TRANSISTOR:SELECTED	04713	SPS8801
A46Q504	151-0192-00	B010100	B100836	TRANSISTOR:SELECTED	04713	SPS8801
A46Q504	151-0188-00	B100837		TRANSISTOR:PNP,SI,TO-92	80009	151-0188-00
A46Q506	151-0192-00	B100837		TRANSISTOR:SELECTED	04713	SPS8801
A46Q532	151-0352-00	B100837		TRANSISTOR:PNP,SI,U-43	04713	SMT1105
A46Q538	151-0223-00	B010100	B100836	TRANSISTOR:NPN,SI,TO-92	04713	SPS8026
A46Q538	151-0352-00	B100837		TRANSISTOR:PNP,SI,U-43	04713	SMT1105
A46Q546	151-0223-00			TRANSISTOR:NPN,SI,TO-92	04713	SPS8026
A46Q606	151-0192-00	B100837		TRANSISTOR:SELECTED	04713	SPS8801
A46Q602	151-0192-00	B010100	B100836	TRANSISTOR:SELECTED	04713	SPS8801
A46Q602	151-0192-00	B100837		TRANSISTOR:SELECTED	04713	SPS8801
A46Q604	151-0192-00	B010100	B100836	TRANSISTOR:SELECTED	04713	SPS8801

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Discont	Name & Description	Mfr. Code	Mfr. Part No.
Q460604	151-0192-00	B100837		TRANSISTOR:SELECTED	04713	SPS8801
Q460605	151-0192-00	B010100	B100836	TRANSISTOR:SELECTED	04713	SPS8801
Q460606	151-0192-00	B010100	B100836	TRANSISTOR:SELECTED	04713	SPS8801
Q460606	151-0192-00	B100837		TRANSISTOR:SELECTED	04713	SPS8801
Q460608	151-0192-00			TRANSISTOR:SELECTED	04713	SPS8801
Q460700	151-0192-00	B010100	B100836	TRANSISTOR:SELECTED	04713	SPS8801
Q460702	151-0192-00	B010100	B100836	TRANSISTOR:SELECTED	04713	SPS8801
Q460702	151-0192-00	B100837		TRANSISTOR:SELECTED	04713	SPS8801
Q460704	151-0192-00			TRANSISTOR:SELECTED	04713	SPS8801
Q460706	151-0192-00	B100837		TRANSISTOR:SELECTED	04713	SPS8801
Q460708	151-0192-00	B100837		TRANSISTOR:SELECTED	04713	SPS8801
Q460714	151-0190-00	B100837		TRANSISTOR:NPN,SI,TO-92	80009	151-0190-00
Q460738	151-0190-00	B010100	B100836	TRANSISTOR:NPN,SI,TO-92	80009	151-0190-00
Q460802	151-0152-00	B100837		TRANSISTOR:SELECTED	04713	SPS8801
Q460804	151-0152-00	B100837		TRANSISTOR:SELECTED	04713	SPS8801
Q460806	151-0152-00	B010100	B100836	TRANSISTOR:SELECTED	04713	SPS8801
Q460806	151-0152-00	B100837		TRANSISTOR:SELECTED	04713	SPS8801
Q460807	151-0152-00	B010100	B100836	TRANSISTOR:SELECTED	04713	SPS8801
Q460809	151-0152-00	B010100	B100836	TRANSISTOR:SELECTED	04713	SPS8801
Q460809	151-0152-00	B100837		TRANSISTOR:SELECTED	04713	SPS8801
Q460814	151-0190-00	B100837		TRANSISTOR:NPN,SI,TO-92	80009	151-0190-00
Q460836	151-0190-00	B010100	B100836	TRANSISTOR:NPN,SI,TO-92	80009	151-0190-00
Q460901	151-0152-00	B010100	B100836	TRANSISTOR:SELECTED	04713	SPS8801
Q460902	151-0152-00	B010100	B100836	TRANSISTOR:SELECTED	04713	SPS8801
Q460902	151-0192-00	B100837		TRANSISTOR:SELECTED	04713	SPS8801
Q460903	151-0192-00	B010100	B100836	TRANSISTOR:SELECTED	04713	SPS8801
Q460904	151-0192-00			TRANSISTOR:SELECTED	04713	SPS8801
Q460935	151-0152-00	B010100	B100836	TRANSISTOR:SELECTED	04713	SPS8801
Q460938	151-0134-00	B010100	B100836	TRANSISTOR:PNP,SI,TO-39	04713	SMS135
Q460938	151-0192-00	B100837		TRANSISTOR:SELECTED	04713	SPS8801
Q460938	151-0192-00	B100837		TRANSISTOR:SELECTED	04713	SPS8801
R46R10	315-0102-00	B100837		RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25J-E1K00
R46R12	315-0101-00	B100837		RES,FXD,FILM:100 OHM,5%,0.25W	57668	NTR25J-E 100E
R46R14	321-0140-00	B100837		RES,FXD,FILM:298 OHM,1%,0.125W,TC=T0	07716	CEA0298Q9F
R46R16	315-0470-00	B100837		RES,FXD,FILM:47 OHM,5%,0.25W	57668	NTR25J-E47E0
R46R18	321-0226-00	B100837		RES,FXD,FILM:2.21K OHM,1%,0.125W,TC=T0	01121	RMK2211F
R46R20	321-0177-00	B100837		RES,FXD,FILM:681 OHM,1%,0.125W,TC=T0	07716	CEA0681Q0F
R46R22	315-0122-00	B100837		RES,FXD,FILM:1.2K OHM,5%,0.25W	57668	NTR25J-E01K2
R46R24	315-0123-00	B100837		RES,FXD,FILM:12K OHM,5%,0.25W	57668	NTR25J-E12K0
R46R26	315-0221-00	B100837		RES,FXD,FILM:220 OHM,5%,0.25W	19701	5043CX0R220J
R46R27	315-0104-00	B010100	B100836	RES,FXD,FILM:100K OHM,5%,0.25W	57668	NTR25J-E100K
R46R28	315-0104-00	B010100	B100836	RES,FXD,FILM:100K OHM,5%,0.25W	57668	NTR25J-E100K
R46R32	315-0681-00	B100837		RES,FXD,FILM:680 OHM,5%,0.25W	57668	NTR25J-E680E
R46R34	321-0191-00	B010100	B100836	RES,FXD,FILM:953 OHM,1%,0.125W,TC=T0	07716	CEA0953Q9F
R46R34	315-0472-00	B100837		RES,FXD,FILM:4.7K OHM,5%,0.25W	57668	NTR25J-E04K7
R46R36	315-0470-00	B010100	B100836	RES,FXD,FILM:47 OHM,5%,0.25W	57668	NTR25J-E47E0
R46R38	321-0226-00	B010100	B100836	RES,FXD,FILM:2.21K OHM,1%,0.125W,TC=T0	01121	RMK2211F
R46R42	321-0177-00	B010100	B100836	RES,FXD,FILM:681 OHM,1%,0.125W,TC=T0	07716	CEA0681Q0F
R46R100	315-0151-00	B100837		RES,FXD,FILM:150 OHM,5%,0.25W	57668	NTR25J-E150E
R46R102	315-0301-00	B100837		RES,FXD,FILM:300 OHM,5%,0.25W	57668	NTR25J-E300E
R46R104	321-0335-00	B100837		RES,FXD,FILM:30.1K OHM,1%,0.125W,TC=T0	57668	RB14FKE30K1
R46R106	315-0153-00	B100837		RES,FXD,FILM:15K OHM,5%,0.25W	19701	5043CX15K00J
R46R108	315-0153-00	B100837		RES,FXD,FILM:15K OHM,5%,0.25W	19701	5043CX15K00J
R46R110	315-0101-00	B100837		RES,FXD,FILM:100 OHM,5%,0.25W	57668	NTR25J-E 100E
R46R111	315-0153-00	B010100	B100836	RES,FXD,FILM:15K OHM,5%,0.25W	19701	5043CX15K00J
R46R111	315-0104-00	B100837		RES,FXD,FILM:100K OHM,5%,0.25W	57668	NTR25J-E100K
R46R112	315-0622-00	B010100	B100836	RES,FXD,FILM:6.2K OHM,5%,0.25W	19701	5043CX6K200J
R46R112	315-0104-00	B100837		RES,FXD,FILM:100K OHM,5%,0.25W	57668	NTR25J-E100K
R46R114	315-0153-00	B010100	B100836	RES,FXD,FILM:15K OHM,5%,0.25W	19701	5043CX15K00J

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Dscont	Name & Description	Mfr. Code	Mfr. Part No.
R46R114	321-0191-00	B100837		RES,FXD,FILM:953 OHM,1%,0.125W,TC=T0	07716	CEA0953F0F
R46R115	315-0622-00	B100837		RES,FXD,FILM:6.2K OHM,5%,0.25W	19701	5043CX6X200J
R46R116	315-0622-00	B010100	B100836	RES,FXD,FILM:6.2K OHM,5%,0.25W	19701	5043CX6X200J
R46R116	321-0210-00	B100837		RES,FXD,FILM:1.50K OHM,1%,0.125W,TC=T0	19701	5033ED1502F
R46R117	321-0224-00	B100837		RES,FXD,FILM:2.10K OHM,1%,0.125W,TC=T0	07716	CEA0210GF
R46R118	315-0100-00	B010100	B100836	RES,FXD,FILM:10R OHM,5%,0.25W	19701	5043CX10R000J
R46R118	321-0226-00	B100837		RES,FXD,FILM:2.21K OHM,1%,0.125W,TC=T0	01121	BW0211F
R46R119	315-0620-00	B100837		RES,FXD,FILM:62 OHM,5%,0.25W	57668	NTR25J-E062G
R46R120	315-0100-00	B100837		RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX10R000J
R46R122	321-0210-00	B010100	B100836	RES,FXD,FILM:1.50K OHM,1%,0.125W,TC=T0	19701	5033ED1502F
R46R122	315-0100-00	B100837		RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX10R000J
R46R124	315-0472-00	B010100	B100836	RES,FXD,FILM:4.7K OHM,5%,0.25W	57668	NTR25J-E04K7
R46R124	315-0332-00	B100837		RES,FXD,FILM:3.3K OHM,5%,0.25W	57668	NTR25J-E03K3
R46R126	315-0183-00	B010100	B100836	RES,FXD,FILM:18K OHM,5%,0.25W	19701	5043CX18K00J
R46R126	315-0332-00	B100837		RES,FXD,FILM:3.3K OHM,5%,0.25W	57668	NTR25J-E03K3
R46R128	321-0224-00	B010100	B100836	RES,FXD,FILM:2.10K OHM,1%,0.125W,TC=T0	07716	CEA0210GF
R46R128	315-0391-00	B100837		RES,FXD,FILM:390 OHM,5%,0.25W	57668	NTR25J-E390E
R46R130	315-0820-00	B010100	B100836	RES,FXD,FILM:82 OHM,5%,0.25W	57668	NTR25J-E082G
R46R132	315-0102-00	B100837		RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE1K0
R46R131	321-0140-00	B010100	B100836	RES,FXD,FILM:280 OHM,1%,0.125W,TC=T0	07716	CEA0280F0F
R46R132	315-0151-00	B010100	B100836	RES,FXD,FILM:150 OHM,5%,0.25W	57668	NTR25J-E150E
R46R132	315-0222-00	B100837		RES,FXD,FILM:2.2K OHM,5%,0.25W	57668	NTR25J-E02K2
R46R133	315-0301-00	B010100	B100836	RES,FXD,FILM:300 OHM,5%,0.25W	57668	NTR25J-E300E
R46R134	315-0101-00	B010100	B100836	RES,FXD,FILM:100 OHM,5%,0.25W	57668	NTR25J-E 100E
R46R134	315-0221-00	B100837		RES,FXD,FILM:220 OHM,5%,0.25W	57668	NTR25J-E220E
R46R135	321-0328-00	B010100	B100836	RES,FXD,FILM:25.5K OHM,1%,0.125W,TC=T0	19701	5033ED2552F
R46R138	321-0226-00	B010100	B100836	RES,FXD,FILM:2.21K OHM,1%,0.125W,TC=T0	01121	BW0211F
R46R139	321-0306-00	B100837		RES,FXD,FILM:15.0K OHM,1%,0.125W,TC=T0	19701	5033ED15J00F
R46R137	311-1237-00	B010100	B100836	RES,VAR,NONWW:1K OHM,10%,0.5W	32997	3386X-0T8-102
R46R138	321-0222-00	B010100	B100836	RES,FXD,FILM:2.00K OHM,1%,0.125W,TC=T0	19701	5033ED2001F
R46R138	321-0193-00	B100837		RES,FXD,FILM:1K OHM,1%,0.125W,TC=T0	19701	5033ED1000F
R46R139	315-0151-00	B010100	B100836	RES,FXD,FILM:150 OHM,5%,0.25W	57668	NTR25J-E150E
R46R142	321-0162-00	B010100	B100836	RES,FXD,FILM:475 OHM,1%,0.125W,TC=T0	19701	5033ED475R0F
R46R142	315-0223-00	B100837		RES,FXD,FILM:22K OHM,5%,0.25W	19701	5043CX22X00J920
R46R204	321-0162-00	B100837		RES,FXD,FILM:475 OHM,1%,0.125W,TC=T0	19701	5033ED475R0F
R46R206	321-0222-00	B100837		RES,FXD,FILM:2.00K OHM,1%,0.125W,TC=T0	19701	5033ED2001F
R46R208	311-1237-00	B100837		RES,VAR,NONWW:1K OHM,10%,0.5W	32997	3386X-0T8-102
R46R211	315-0512-00	B010100	B100836	RES,FXD,FILM:5.1K OHM,5%,0.25W	57668	NTR25J-E05K1
R46R212	321-0336-00	B010100	B100836	RES,FXD,FILM:15.0K OHM,1%,0.125W,TC=T0	19701	5033ED15J00F
R46R212	321-0222-00	B100837		RES,FXD,FILM:2.00K OHM,1%,0.125W,TC=T0	19701	5033ED2001F
R46R214	315-0622-00	B100837		RES,FXD,FILM:6.2K OHM,5%,0.25W	19701	5043CX6X200J
R46R216	315-0223-00	B010100	B100836	RES,FXD,FILM:22K OHM,5%,0.25W	19701	5043CX22X00J920
R46R216	321-0205-00	B100837		RES,FXD,FILM:1.33K OHM,1%,0.125W,TC=T0	19701	5033ED1331F
R46R218	321-0328-00	B100837		RES,FXD,FILM:25.5K OHM,1%,0.125W,TC=T0	19701	5033ED2552F
R46R219	321-0128-00	B010100	B100836	RES,FXD,FILM:210 OHM,1%,0.125W,TC=T0	07716	CEA0210R0F
R46R220	321-0205-00	B010100	B100836	RES,FXD,FILM:1.33K OHM,1%,0.125W,TC=T0	19701	5033ED1331F
R46R220	315-0122-00	B100837		RES,FXD,FILM:1.2K OHM,5%,0.25W	57668	NTR25J-E01K2
R46R221	315-0123-00	B010100	B100836	RES,FXD,FILM:12K OHM,5%,0.25W	57668	NTR25J-E12K0
R46R221	315-0391-00	B100837		RES,FXD,FILM:390 OHM,5%,0.25W	57668	NTR25J-E390E
R46R222	321-0193-00	B010100	B100836	RES,FXD,FILM:1K OHM,1%,0.125W,TC=T0	19701	5033ED1000F
R46R222	315-0183-00	B100837		RES,FXD,FILM:18K OHM,5%,0.25W	19701	5043CX18K00J
R46R223	315-0102-00	B010100	B100836	RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE1K0
R46R223	315-0103-00	B100837		RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10K00J
R46R224	315-0222-00	B010100	B100836	RES,FXD,FILM:2.2K OHM,5%,0.25W	57668	NTR25J-E02K2
R46R224	315-0472-00	B100837		RES,FXD,FILM:4.7K OHM,5%,0.25W	57668	NTR25J-E04K7
R46R225	315-0122-00	B010100	B100836	RES,FXD,FILM:1.2K OHM,5%,0.25W	57668	NTR25J-E01K2
R46R225	315-0102-00	B100837		RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25J-E01K0
R46R226	315-0512-00	B010100	B100836	RES,FXD,FILM:5.1K OHM,5%,0.25W	57668	NTR25J-E05K1
R46R226	315-0222-00	B100837		RES,FXD,FILM:2.2K OHM,5%,0.25W	57668	NTR25J-E02K2

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A46A227	315-0510-00	B010100	B100836	RES,FXD,FILM:51 OHM,5%,0.25W	19701	5043CX51R00J
A46A227	315-0821-00	B100837		RES,FXD,FILM:820 OHM,5%,0.25W	19701	5043CX820R0J
A46A228	315-0123-00	B010100	B100836	RES,FXD,FILM:12K OHM,5%,0.25W	57668	NTR25J-E12K0
A46A228	315-0681-00	B100837		RES,FXD,FILM:680 OHM,5%,0.25W	57668	NTR25J-E680E
A46A229	315-0122-00	B010100	B100835	RES,FXD,FILM:1.2K OHM,5%,0.25W	57668	NTR25J-E01K2
A46A230	315-0102-00	B010100	B100835	RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25J-E01K0
A46A230	315-0103-00	B100837		RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10003J
A46A231	315-0510-00	B100837		RES,FXD,FILM:51 OHM,5%,0.25W	19701	5043CX51R00J
A46A232	315-0101-00	B010100	B100835	RES,FXD,FILM:100 OHM,5%,0.25W	57668	NTR25J-E 100E
A46A232	315-0221-00	B100837		RES,FXD,FILM:220 OHM,5%,0.25W	57668	NTR25J-E220E
A46A233	315-0100-00	B100837		RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX10R00J
A46A234	315-0821-00	B010100	B100836	RES,FXD,FILM:820 OHM,5%,0.25W	19701	5043CX820R0J
A46A234	315-0510-00	B100837		RES,FXD,FILM:51 OHM,5%,0.25W	19701	5043CX51R00J
A46A235	315-0681-00	B010100	B100836	RES,FXD,FILM:680 OHM,5%,0.25W	57668	NTR25J-E680E
A46A235	315-0512-00	B100837		RES,FXD,FILM:5.1K OHM,5%,0.25W	57668	NTR25J-E05K1
A46A236	315-0391-00	B010100	B100836	RES,FXD,FILM:390 OHM,5%,0.25W	57668	NTR25J-E390E
A46A238	315-0123-00	B100837		RES,FXD,FILM:12K OHM,5%,0.25W	57668	NTR25J-E12K0
A46A237	315-0472-00	B100837		RES,FXD,FILM:4.7K OHM,5%,0.25W	57668	NTR25J-E04K7
A46A238	315-0103-00	B010100	B100835	RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10003J
A46A238	315-0512-00	B100837		RES,FXD,FILM:5.1K OHM,5%,0.25W	57668	NTR25J-E05K1
A46A239	315-0101-00	B100837		RES,FXD,FILM:100 OHM,5%,0.25W	57668	NTR25J-E 100E
A46A242	321-0335-00	B010100	B100835	RES,FXD,FILM:30.1K OHM,1%,0.125W,TC=TD	57668	RN14F3013G1
A46A242	321-0220-00	B100837		RES,FXD,FILM:1.91K OHM,1%,0.125W,TC=TD	19701	5033ED1911F
A46A244	321-0128-00	B100837		RES,FXD,FILM:210 OHM,1%,0.125W,TC=TD	07716	CEA0210001F
A46A246	315-0221-00	B010100	B100836	RES,FXD,FILM:220 OHM,5%,0.25W	57668	NTR25J-E220E
A46A246	321-0296-00	B100837		RES,FXD,FILM:11.8K OHM,1%,0.125W,TC=TD	07716	CEA0118001F
A46A248	315-0472-00	B010100	B100836	RES,FXD,FILM:4.7K OHM,5%,0.25W	57668	NTR25J-E04K7
A46A249	315-0100-00	B010100	B100836	RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX10R00J
A46A304	315-0162-00	B100837		RES,FXD,FILM:1.6K OHM,5%,0.25W	19701	5043CX16R00J
A46A310	315-0101-00	B010100	B100836	RES,FXD,FILM:100 OHM,5%,0.25W	57668	NTR25J-E 100E
A46A311	321-0220-00	B010100	B100835	RES,FXD,FILM:1.91K OHM,1%,0.125W,TC=TD	19701	5033ED1911F
A46A312	321-0296-00	B010100	B100836	RES,FXD,FILM:11.8K OHM,1%,0.125W,TC=TD	07716	CEA0118001F
A46A312	321-0222-00	B100837		RES,FXD,FILM:2.00K OHM,1%,0.125W,TC=TD	19701	5033ED2001F
A46A313	315-0332-00	B010100	B100835	RES,FXD,FILM:3.3K OHM,5%,0.25W	57668	NTR25J-E03K3
A46A314	315-0332-00	B010100	B100835	RES,FXD,FILM:3.3K OHM,5%,0.25W	57668	NTR25J-E03K3
A46A314	315-0151-00	B100837		RES,FXD,FILM:150 OHM,5%,0.25W	57668	NTR25J-E150E
A46A315	323-0181-00	B010100	B100835	RES,FXD,FILM:750 OHM,1%,0.5W,TC=TD	75042	CEC70-7500F
A46A316	317-0131-00	B010100	B100835	RES,FXD,CMPSN:130 OHM,5%,0.125W	01121	BB1315
A46A316	315-0470-00	B100837		RES,FXD,FILM:47 OHM,5%,0.25W	57668	NTR25J-E47R0
A46A317	321-0372-00	B010100	B100836	RES,FXD,FILM:54.9 OHM,1%,0.125W,TC=TD	91637	CMF55118054R90F
A46A318	315-0470-00	B100837		RES,FXD,FILM:47 OHM,5%,0.25W	57668	NTR25J-E47R0
A46A320	315-0222-00	B010100	B100836	RES,FXD,FILM:2.2K OHM,5%,0.25W	57668	NTR25J-E02K2
A46A322	315-0102-00	B010100	B100836	RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25J-E01K0
A46A322	315-0470-00	B100837		RES,FXD,FILM:47 OHM,5%,0.25W	57668	NTR25J-E47R0
A46A323	315-0821-00	B010100	B100836	RES,FXD,FILM:820 OHM,5%,0.25W	19701	5043CX820R0J
A46A324	315-0391-00	B010100	B100835	RES,FXD,FILM:390 OHM,5%,0.25W	57668	NTR25J-E390E
A46A325	315-0681-00	B010100	B100835	RES,FXD,FILM:680 OHM,5%,0.25W	57668	NTR25J-E680E
A46A326	315-0472-00	B010100	B100835	RES,FXD,FILM:4.7K OHM,5%,0.25W	57668	NTR25J-E04K7
A46A326	315-0201-00	B100837		RES,FXD,FILM:200 OHM,5%,0.25W	57668	NTR25J-E200E
A46A327	323-0127-00	B010100	B100835	RES,FXD,FILM:205 OHM,1%,0.5W,TC=TD	24546	NB65T205F
A46A328	315-0104-00	B010100	B100836	RES,FXD,FILM:100K OHM,5%,0.25W	57668	NTR25J-E100K
A46A328	315-0301-00	B100837		RES,FXD,FILM:300 OHM,5%,0.25W	57668	NTR25J-E300E
A46A329	315-0104-00	B010100	B100836	RES,FXD,FILM:100K OHM,5%,0.25W	57668	NTR25J-E100K
A46A330	315-0510-00	B010100	B100836	RES,FXD,FILM:51 OHM,5%,0.25W	19701	5043CX51R00J
A46A332	315-0221-00	B010100	B100836	RES,FXD,FILM:220 OHM,5%,0.25W	57668	NTR25J-E220E
A46A332	321-0122-00	B100837		RES,FXD,FILM:182 OHM,1%,0.125W,TC=TD	19701	5033ED182R0F
A46A334	315-0100-00	B010100	B100836	RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX10R00J
A46A336	315-0201-00	B010100	B100836	RES,FXD,FILM:200 OHM,5%,0.25W	57668	NTR25J-E200E
A46A336	321-0122-00	B100837		RES,FXD,FILM:182 OHM,1%,0.125W,TC=TD	19701	5033ED182R0F

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Dscont	Name & Description	Mfr. Code	Mfr. Part No.
A6R939	315-0331-00	B010100	B100899	RES,FXD,FILM:300 OHM,5%,0.25W	57668	NTR25J-E300
A6R942	315-0100-00	B010100	B100899	RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX10R000J
A6R944	315-0132-00	B010100	B100835	RES,FXD,FILM:1.3K OHM,5%,0.25W	57668	NTR25J-E01K3
A6R402	315-0183-00	B010100	B100899	RES,FXD,FILM:18K OHM,5%,0.25W	19701	5043CX18K00J
A6R403	315-0183-00	B100837		RES,FXD,FILM:18K OHM,5%,0.25W	19701	5043CX18K00J
A6R410	323-0187-03	B100837		RES,FXD,FILM:866 OHM,1%,0.5W,TC=TO	19701	5053R0866F
A6R411	315-0103-00	B100837		RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10K00J
A6R412	321-0148-00	B010100	B100835	RES,FXD,FILM:340 OHM,1%,0.125W,TC=TO	07716	CEA0341F
A6R413	321-0088-00	B100837		RES,FXD,FILM:80.6 OHM,1%,0.125W,TC=TO	91637	CMF55116B80R6F
A6R414	311-1277-00	B010100	B100835	RES,VAR,NONWW:TRMR,100 OHM,0.5W	32997	3323S-LSB-101
A6R414	321-0088-00	B100837		RES,FXD,FILM:80.6 OHM,1%,0.125W,TC=TO	91637	CMF55116B80R6F
A6R415	315-0202-00	B100837		RES,FXD,FILM:2K OHM,5%,0.25W	57668	NTR25J-E 2K
A6R416	321-0107-00	B010100	B100835	RES,FXD,FILM:127 OHM,1%,0.125W,TC=TO	07716	CEA01270F
A6R416	315-0273-00	B100837		RES,FXD,FILM:27K OHM,5%,0.25W	57668	NTR25J-E27K0
A6R417	321-0148-00	B010100	B100835	RES,FXD,FILM:340 OHM,1%,0.125W,TC=TO	07716	CEA0340F
A6R418	317-0131-00	B010100	B100835	RES,FXD,CMPSN:130 OHM,5%,0.125W	01121	BB1315
A6R418	315-0100-00	B100837		RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX10R000J
A6R420	317-0393-00	B010100	B100835	RES,FXD,CMPSN:39 OHM,5%,0.125W	01121	BB3905
A6R420	321-0088-00	B100837		RES,FXD,FILM:80.6 OHM,1%,0.125W,TC=TO	91637	CMF55116B80R6F
A6R421	321-0076-00	B010100	B100835	RES,FXD,FILM:60.4 OHM,1%,0.125W,TC=TO	91637	CMF55116G60R4F
A6R422	321-0076-00	B010100	B100835	RES,FXD,FILM:60.4 OHM,1%,0.125W,TC=TO	91637	CMF55116G60R4F
A6R422	321-0088-00	B100837		RES,FXD,FILM:80.6 OHM,1%,0.125W,TC=TO	91637	CMF55116B80R6F
A6R423	317-0390-00	B010100	B100835	RES,FXD,CMPSN:39 OHM,5%,0.125W	01121	BB3905
A6R424	321-0157-00	B010100	B100835	RES,FXD,FILM:261 OHM,1%,0.125W,TC=TO	07716	CEA0261F
A6R424	323-0187-00	B100837		RES,FXD,FILM:866 OHM,1%,0.5W,TC=TO	19701	5053R0866F
A6R425	321-0157-00	B010100	B100835	RES,FXD,FILM:261 OHM,1%,0.125W,TC=TO	07716	CEA0261F
A6R425	323-0127-00	B100837		RES,FXD,FILM:205 OHM,1%,0.5W,TC=TO	24546	NA55D205F
A6R426	323-0144-00	B010100	B100835	RES,FXD,FILM:309 OHM,1%,0.5W,TC=TO	19701	5053R0309F
A6R426	315-0104-00	B100837		RES,FXD,FILM:100K OHM,5%,0.25W	57668	NTR25J-E100K
A6R428	315-0104-00	B100837		RES,FXD,FILM:100K OHM,5%,0.25W	57668	NTR25J-E100K
A6R432	321-0122-00	B010100	B100835	RES,FXD,FILM:182 OHM,1%,0.125W,TC=TO	19701	5033E182F
A6R433	321-0026-00	B100837		RES,FXD,FILM:18.2 OHM,1%,0.125W,TC=TO	57668	RB14FXE 18E2
A6R432	321-0026-00	B010100	B100835	RES,FXD,FILM:18.2 OHM,1%,0.125W,TC=TO	57668	RB14FXE 18E2
A6R432	321-0068-00	B100837		RES,FXD,FILM:49.9 OHM,0.5%,0.125W,TC=TO	91637	CMF55116A49R9F
A6R433	321-0068-00	B010100	B100835	RES,FXD,FILM:49.9 OHM,0.5%,0.125W,TC=TO	91637	CMF55116A49R9F
A6R434	321-0068-00			RES,FXD,FILM:49.9 OHM,0.5%,0.125W,TC=TO	91637	CMF55116A49R9F
A6R435	321-0026-00	B010100	B100835	RES,FXD,FILM:18.2 OHM,1%,0.125W,TC=TO	57668	RB14FXE 18E2
A6R436	321-0122-00	B010100	B100835	RES,FXD,FILM:182 OHM,1%,0.125W,TC=TO	19701	5033E182F
A6R436	321-0026-00	B100837		RES,FXD,FILM:18.2 OHM,1%,0.125W,TC=TO	57668	RB14FXE 18E2
A6R437	323-0184-00	B100837		RES,FXD,FILM:309 OHM,1%,0.5W,TC=TO	19701	5053R0309F
A6R438	321-0157-00	B100837		RES,FXD,FILM:261 OHM,1%,0.125W,TC=TO	07716	CEA0261F
A6R439	321-0157-00	B100837		RES,FXD,FILM:261 OHM,1%,0.125W,TC=TO	07716	CEA0261F
A6R445	315-0472-00	B100837		RES,FXD,FILM:4.7K OHM,5%,0.25W	57668	NTR25J-E04K7
A6R448	321-0222-00	B010100	B100835	RES,FXD,FILM:2.00K OHM,1%,0.125W,TC=TO	19701	5033E202F
A6R505	315-0203-00	B100837		RES,FXD,FILM:20K OHM,5%,0.25W	57668	NTR25J-E 20K
A6R509	315-0472-00	B100837		RES,FXD,FILM:4.7K OHM,5%,0.25W	57668	NTR25J-E04K7
A6R510	321-0072-00	B010100	B100835	RES,FXD,FILM:54.9 OHM,1%,0.125W,TC=TO	91637	CMF55116G54R9F
A6R510	321-0039-00	B100837		RES,FXD,FILM:24.9 OHM,1%,0.125W,TC=TO	91637	CMF55116G24R9F
A6R512	315-0203-00	B010100	B100835	RES,FXD,FILM:20K OHM,5%,0.25W	57668	NTR25J-E 20K
A6R512	321-0039-00	B100837		RES,FXD,FILM:24.9 OHM,1%,0.125W,TC=TO	91637	CMF55116G24R9F
A6R513	315-0472-00	B010100	B100835	RES,FXD,FILM:4.7K OHM,5%,0.25W	57668	NTR25J-E04K7
A6R514	323-0181-00	B010100	B100835	RES,FXD,FILM:750 OHM,1%,0.5W,TC=TO	75042	CEC1D-7500
A6R514	321-0039-00	B100837		RES,FXD,FILM:24.9 OHM,1%,0.125W,TC=TO	91637	CMF55116G24R9F
A6R515	321-0039-00			RES,FXD,FILM:24.9 OHM,1%,0.125W,TC=TO	91637	CMF55116G24R9F
A6R518	323-0187-00	B010100	B100835	RES,FXD,FILM:866 OHM,1%,0.5W,TC=TO	19701	5053R0866F
A6R518	321-0218-00	B100837		RES,FXD,FILM:1.62K OHM,1%,0.125W,TC=TO	19701	5033E162F
A6R522	321-0039-00	B010100	B100835	RES,FXD,FILM:24.9 OHM,1%,0.125W,TC=TO	91637	CMF55116G24R9F
A6R522	321-1058-01	B100837		RES,FXD,FILM:50.5 OHM,0.5%,0.125W,TC=TO	57668	RB14 0XE 50E5
A6R524	321-0088-00	B010100	B100835	RES,FXD,FILM:80.6 OHM,1%,0.125W,TC=TO	91637	CMF55116B80R6F

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Discont	Name & Description	Mfr. Code	Mfr. Part No.
R468524	321-1068-01	B100837		RES,FXD,FILM:50.5 OHM,0.5%,0.125W,TC=T0	57668	RN14 D9E 50E5
R468525	321-0218-00	B010100	B100836	RES,FXD,FILM:1.82K OHM,1%,0.125W,TC=T0	19701	5033ED1K82F
R468526	315-0273-00	B010100	B100836	RES,FXD,FILM:27K OHM,5%,0.25W	57668	NTR25J-E27K0
R468527	323-0181-00	B100837		RES,FXD,FILM:750 OHM,1%,0.5W,TC=T0	75042	CECT0-7500F
R468528	315-0202-00	B010100	B100836	RES,FXD,FILM:2K OHM,5%,0.25W	57668	NTR25J-E 2K
R468529	317-0131-00	B100837		RES,FXD,CMPSN:130 OHM,5%,0.125W	01121	BB1315
R468529	321-0088-00	B010100	B100836	RES,FXD,FILM:80.6 OHM,1%,0.125W,TC=T0	91637	CMF5511660806F
R468530	317-0390-00	B100837		RES,FXD,CMPSN:39 OHM,5%,0.125W	01121	BB3905
R468531	321-0078-00	B100837		RES,FXD,FILM:60.4 OHM,1%,0.125W,TC=T0	91637	CMF5511660404F
R468532	321-1068-01			RES,FXD,FILM:50.5 OHM,0.5%,0.125W,TC=T0	57668	RN14 D9E 50E5
R468532	321-0078-00	B100837		RES,FXD,FILM:60.4 OHM,1%,0.125W,TC=T0	91637	CMF5511660404F
R468534	315-0102-00	B010100	B100836	RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE0102
R468534	317-0390-00	B100837		RES,FXD,CMPSN:39 OHM,5%,0.125W	01121	BB3905
R468535	321-0148-00	B100837		RES,FXD,FILM:340 OHM,1%,0.125W,TC=T0	07716	CEA0344D0F
R468536	321-1068-01	B010100	B100836	RES,FXD,FILM:50.5 OHM,0.5%,0.125W,TC=T0	57668	RN14 D9E 50E5
R468536	321-0127-00	B100837		RES,FXD,FILM:127 OHM,1%,0.125W,TC=T0	07716	CEA0127R0F
R468537	321-0148-00	B100837		RES,FXD,FILM:340 OHM,1%,0.125W,TC=T0	07716	CEA0344D0F
R468538	315-0102-00	B010100	B100836	RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE0102
R468538	311-1277-00	B100837		RES,VAR,NONWW:10KΩ,100 OHM,0.5W	32997	3329S-L58-101
R468540	317-0131-00	B100837		RES,FXD,CMPSN:130 OHM,5%,0.125W	01121	BB1315
R468542	315-0100-00	B010100	B100836	RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX100R00J
R468542	323-0191-00	B100837		RES,FXD,FILM:750 OHM,1%,0.5W,TC=T0	75042	CECT0-7500F
R468544	315-0683-00	B100837		RES,FXD,FILM:68K OHM,5%,0.25W	57668	NTR25J-E68K0
R468546	307-0586-00	B010100	B100836	RES NTWK,FXD,FI:9.998K OHM,2%,1.25W	91637	CSC10B0179J3G
R468546	315-0102-00	B100837		RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE0102
R468548	315-0183-00	B100837		RES,FXD,FILM:18K OHM,5%,0.25W	19701	5043CX18003J
R468604	315-0154-00	B010100	B100836	RES,FXD,FILM:150K OHM,5%,0.25W	57668	NTR25J-E150K
R468610	315-0103-00	B010100	B100836	RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10003J
R468612	315-0100-00	B010100	B100836	RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX10R00J
R468612	307-0606-00	B100837		RES NTWK,FXD,FI:9.150K OHM,2%,0.15W	91637	MSP10B-01-154G
R468614	323-0187-00	B010100	B100836	RES,FXD,FILM:866 OHM,1%,0.5W,TC=T0	19701	5053P866F0F
R468616	315-0154-00	B010100	B100836	RES,FXD,FILM:150K OHM,5%,0.25W	57668	NTR25J-E150K
R468618	315-0154-00	B010100	B100836	RES,FXD,FILM:150K OHM,5%,0.25W	57668	NTR25J-E150K
R468624	321-0088-00	B010100	B100836	RES,FXD,FILM:80.6 OHM,1%,0.125W,TC=T0	91637	CMF5511660806F
R468626	315-0154-00	B010100	B100836	RES,FXD,FILM:150K OHM,5%,0.25W	57668	NTR25J-E150K
R468628	315-0154-00	B010100	B100836	RES,FXD,FILM:150K OHM,5%,0.25W	57668	NTR25J-E150K
R468629	315-0154-00	B010100	B100836	RES,FXD,FILM:150K OHM,5%,0.25W	57668	NTR25J-E150K
R468632	321-0099-00	B010100	B100836	RES,FXD,FILM:24.9 OHM,1%,0.125W,TC=T0	91637	CMF5511624R90F
R468634	321-0099-00	B010100	B100836	RES,FXD,FILM:24.9 OHM,1%,0.125W,TC=T0	91637	CMF5511624R90F
R468634	321-0072-00	B100837		RES,FXD,FILM:54.9 OHM,1%,0.125W,TC=T0	91637	CMF5511665490F
R468636	315-0183-00	B010100	B100836	RES,FXD,FILM:18K OHM,5%,0.25W	19701	5043CX18003J
R468636	321-0072-00	B100837		RES,FXD,FILM:54.9 OHM,1%,0.125W,TC=T0	91637	CMF5511665490F
R468638	315-0152-00	B010100	B100836	RES,FXD,FILM:1.5K OHM,5%,0.25W	57668	NTR25J-E01K5
R468639	321-0088-00	B010100	B100836	RES,FXD,FILM:80.6 OHM,1%,0.125W,TC=T0	91637	CMF5511660806F
R468642	321-0222-00	B010100	B100836	RES,FXD,FILM:2.00K OHM,1%,0.125W,TC=T0	19701	5033ED2K00F
R468642	321-0098-00	B100837		RES,FXD,FILM:49.9 OHM,0.5%,0.125W,TC=T0	91637	CMF5511649R90F
R468644	315-0152-00	B010100	B100836	RES,FXD,FILM:1.5K OHM,5%,0.25W	57668	NTR25J-E01K5
R468644	321-0098-00	B100837		RES,FXD,FILM:49.9 OHM,0.5%,0.125W,TC=T0	91637	CMF5511649R90F
R468645	315-0183-00	B010100	B100836	RES,FXD,FILM:18K OHM,5%,0.25W	19701	5043CX18003J
R468645	315-0100-00	B100837		RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX10R00J
R468648	315-0152-00	B100837		RES,FXD,FILM:1.5K OHM,5%,0.25W	57668	NTR25J-E01K5
R468702	315-0221-00	B010100	B100836	RES,FXD,FILM:220 OHM,5%,0.25W	57668	NTR25J-E220E
R468704	315-0392-00	B100837		RES,FXD,FILM:3.9K OHM,5%,0.25W	57668	NTR25J-E03K9
R468705	315-0102-00	B100837		RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE0102
R468712	315-0154-00	B010100	B100836	RES,FXD,FILM:150K OHM,5%,0.25W	57668	NTR25J-E150K
R468712	315-0103-00	B100837		RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10003J
R468714	315-0154-00	B010100	B100836	RES,FXD,FILM:150K OHM,5%,0.25W	57668	NTR25J-E150K
R468714	315-0103-00	B100837		RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10003J
R468715	315-0154-00	B010100	B100836	RES,FXD,FILM:150K OHM,5%,0.25W	57668	NTR25J-E150K

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Dscnt	Name & Description	Mfr. Code	Mfr. Part No.
A46R716	315-0103-00	B100837		RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CB10003J
A46R718	315-0154-00	B010100	B100836	RES,FXD,FILM:150K OHM,5%,0.25W	57668	NTR25J-E150K
A46R718	315-0103-00	B100837		RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CB10003J
A46R722	315-0470-00	B010100	B100836	RES,FXD,FILM:47 OHM,5%,0.25W	57668	NTR25J-E47R0
A46R722	315-0154-00	B100837		RES,FXD,FILM:150K OHM,5%,0.25W	57668	NTR25J-E150K
A46R732	321-0068-00	B010100	B100836	RES,FXD,FILM:49.9 OHM,0.5%,0.125W,TC=T0	91637	CMF55116G49R90F
A46R734	321-0068-00	B010100	B100836	RES,FXD,FILM:49.9 OHM,0.5%,0.125W,TC=T0	91637	CMF55116G49R90F
A46R736	315-0222-00	B010100	B100836	RES,FXD,FILM:2.2K OHM,5%,0.25W	57668	NTR25J-E02K2
A46R738	307-0588-00	B100837		RES NTWK,FXD,FI:9,35K OHM,2%,1.25W	91637	CSC10001935G
A46R744	315-0472-00	B010100	B100836	RES,FXD,FILM:4.7K OHM,5%,0.25W	57668	NTR25J-E04K7
A46R748	315-0103-00	B010100	B100836	RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10003J
A46R800	315-0301-00	B010100	B100836	RES,FXD,FILM:300 OHM,5%,0.25W	57668	NTR25J-E300E
A46R802	315-0301-00	B100837		RES,FXD,FILM:300 OHM,5%,0.25W	57668	NTR25J-E300E
A46R804	315-0221-00	B100837		RES,FXD,FILM:220 OHM,5%,0.25W	57668	NTR25J-E220E
A46R812	315-0154-00	B010100	B100836	RES,FXD,FILM:150K OHM,5%,0.25W	57668	NTR25J-E150K
A46R814	315-0102-00	B010100	B100836	RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE1K00
A46R814	315-0272-00	B100837		RES,FXD,FILM:2.2K OHM,5%,0.25W	57668	NTR25J-E02K2
A46R816	315-0392-00	B010100	B100836	RES,FXD,FILM:3.9K OHM,5%,0.25W	57668	NTR25J-E03K9
A46R818	307-0606-00	B010100	B100836	RES NTWK,FXD,FI:8,150K OHM,2%,0.15W	91637	MSP108-01-154G
A46R818	315-0154-00	B100837		RES,FXD,FILM:150K OHM,5%,0.25W	57668	NTR25J-E150K
A46R826	315-0470-00	B010100	B100836	RES,FXD,FILM:47 OHM,5%,0.25W	57668	NTR25J-E47R0
A46R832	315-0103-00	B010100	B100836	RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CB10003J
A46R834	315-0103-00	B010100	B100836	RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CB10003J
A46R836	315-0470-00	B010100	B100836	RES,FXD,FILM:47 OHM,5%,0.25W	57668	NTR25J-E47R0
A46R838	321-0260-00	B010100	B100836	RES,FXD,FILM:4.99K OHM,1%,0.125W,TC=T0	19701	5033EDM4991F
A46R842	315-0103-00	B010100	B100836	RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10003J
A46R844	321-0260-00	B100837		RES,FXD,FILM:4.99K OHM,1%,0.125W,TC=T0	19701	5033EDM4991F
A46R846	321-0260-00	B100837		RES,FXD,FILM:4.99K OHM,1%,0.125W,TC=T0	19701	5033EDM4991F
A46R918	307-0606-00	B100837		RES NTWK,FXD,FI:8,150K OHM,2%,0.15W	91637	MSP108-01-154G
A46R920	307-0503-00	B010100	B100836	RES NTWK,FXD,FI:(8) 510 OHM,20%,0.125W	11236	750-101-R510
A46R926	307-0503-00	B100837		RES NTWK,FXD,FI:(8) 510 OHM,20%,0.125W	11236	750-101-R510
A46R938	315-0683-00	B010100	B100836	RES,FXD,FILM:68K OHM,5%,0.25W	57668	NTR25J-E68K0
A46R942	321-0260-00	B010100	B100836	RES,FXD,FILM:4.99K OHM,1%,0.125W,TC=T0	19701	5033EDM4991F
A46U126	156-0011-00	B010100	B100836	MICROCKT,DGTL:CLOCK & CHOP BLANKING	80009	156-0011-00
A46U128	156-0041-05			MICROCKT,DGTL:DUAL D FLIP FLOP SCHN	01295	SN74H74N3
A46U128	155-0012-00	B010100	B100836	MICROCKT,DGTL:2-AXIS AMPLIFIER	80009	155-0012-00
A46U136	155-0011-00	B100837		MICROCKT,DGTL:CLOCK & CHOP BLANKING	80009	156-0011-00
A46U212	155-0012-00	B100837		MICROCKT,DGTL:2-AXIS AMPLIFIER	80009	155-0012-00
A46U228	156-0041-05	B010100	B100836	MICROCKT,DGTL:DUAL D FLIP FLOP SCHN	01295	SN74H74N3
A46U418	155-0022-00	B100837		MICROCKT,DGTL:CHANNEL SWITCH	80009	155-0022-00
A46U422	155-0078-10	B010100	B100836	MICROCKT,LINEAR:VERTICAL AMPLIFIER HL	80009	155-0078-10
A46U434	155-0078-00	B100837		MICROCKT,LINEAR:VERTICAL AMPL	80009	155-0078-00
A46U528	155-0022-00	B010100	B100836	MICROCKT,DGTL:CHANNEL SWITCH	80009	155-0022-00
A46U708	156-0651-01	B100837		MICROCKT,DGTL:8-BIT PRL-OUT SER SH,CNT	80009	156-0651-01
A46U726	155-0017-00	B100837		MICROCKT,DGTL:BCD DECIMAL	80009	155-0017-00
A46U728	155-0017-00	B010100	B100836	MICROCKT,DGTL:BCD DECIMAL	80009	155-0017-00
A46U812	156-0651-02	B010100	B100836	MICROCKT,DGTL:8-BIT PRL-OUT SER SHF REG	01295	SN74LS164N3
A46U822	155-0017-00			MICROCKT,DGTL:BCD DECIMAL	80009	155-0017-00
A46VR918	152-0217-00	B010100	B100835	SEMICOND DVC,DI:ZEN,SI,8.2V,5%,0.4W,DO-7	04713	SZ820
A46VR938	152-0217-00	B100837		SEMICOND DVC,DI:ZEN,SI,8.2V,5%,0.4W,DO-7	04713	SZ820
A48	670-5160-00	B010100	B100835	CIRCUIT BD ASSY:VERTICAL ATTENUATOR (OPTION 04 ONLY)	80009	670-5160-00
A48R71	307-1020-00	B010100	B100835	ATTENUATOR,FXD:2W,50 OHM	80009	307-1020-00
A52	670-4953-00	B010100	B043999	CIRCUIT BD ASSY:N.P.U. MEMORY	80009	670-4953-00
A52	670-4953-01	B050000	B109999	CIRCUIT BD ASSY:N.P.U. MEMORY (SUBPART OF 672-0960-10)	80009	670-4953-01

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Discont	Name & Description	Mfr. Code	Mfr. Part No.
A52C2	281-0775-00			CAP,FXD,CER DI:0.1UF,20%,50V	04222	M4205E104M50
A52C4	281-0775-00			CAP,FXD,CER DI:0.1UF,20%,50V	04222	M4205E104M50
A52C100	285-0505-00			CAP,FXD,PLASTIC:0.330F,5%,50V	04699	TEK-15-2
A52C110	281-0775-00			CAP,FXD,CER DI:0.1UF,20%,50V	04222	M4205E104M50
A52C120	281-0775-00			CAP,FXD,CER DI:0.1UF,20%,50V	04222	M4205E104M50
A52C130	281-0775-00			CAP,FXD,CER DI:0.1UF,20%,50V	04222	M4205E104M50
A52C140	281-0775-00			CAP,FXD,CER DI:0.1UF,20%,50V	04222	M4205E104M50
A52C200	281-0775-00			CAP,FXD,CER DI:0.1UF,20%,50V	04222	M4205E104M50
A52C210	281-0775-00			CAP,FXD,CER DI:0.1UF,20%,50V	04222	M4205E104M50
A52C240	281-0775-00			CAP,FXD,CER DI:0.1UF,20%,50V	04222	M4205E104M50
A52C242	281-0775-00			CAP,FXD,CER DI:0.1UF,20%,50V	04222	M4205E104M50
A52C321	281-0775-00			CAP,FXD,CER DI:0.1UF,20%,50V	04222	M4205E104M50
A52C302	281-0775-00			CAP,FXD,CER DI:0.1UF,20%,50V	04222	M4205E104M50
A52C320	281-0775-00			CAP,FXD,CER DI:0.1UF,20%,50V	04222	M4205E104M50
A52C340	281-0775-00			CAP,FXD,CER DI:0.1UF,20%,50V	04222	M4205E104M50
A52C400	281-0775-00			CAP,FXD,CER DI:0.1UF,20%,50V	04222	M4205E104M50
A52C430	281-0775-00			CAP,FXD,CER DI:0.1UF,20%,50V	04222	M4205E104M50
A52C440	281-0775-00			CAP,FXD,CER DI:0.1UF,20%,50V	04222	M4205E104M50
A52C5A2	281-0775-00			CAP,FXD,CER DI:0.1UF,20%,50V	04222	M4205E104M50
A52CR101	152-0141-02			SEMICOND DVC,DI:SM,SI,30V,150MA,30V,DO-35	03508	D42527 (1N4152)
A52CR200	152-0141-02			SEMICOND DVC,DI:SM,SI,30V,150MA,30V,DO-35	03508	D42527 (1N4152)
A52R440	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	RN55E1001J
A52U10	160-0093-01	B010100	B049999	MICROCKT,DGTL:1024 X 8 PROM,PROGRAMMED	80009	160-0093-01
A52U10	160-0093-02	B050000		MICROCKT,DGTL:1024 X 8 EPROM,PROGRAMMED	80009	160-0093-02
A52U20	160-0094-01	B010100	B049999	MICROCKT,DGTL:1024 X 8 PROM,PROGRAMMED	80009	160-0094-01
A52U20	160-0094-02	B050000		MICROCKT,DGTL:1024 X 8 EPROM,PROGRAMMED	80009	160-0094-02
A52U30	160-0095-01	B010100	B049999	MICROCKT,DGTL:1024 X 8 PROM,PROGRAMMED	80009	160-0095-01
A52U30	160-0095-02	B050000		MICROCKT,DGTL:1024 X 8 EPROM,PROGRAMMED	80009	160-0095-02
A52U40	160-0096-01	B010100	B049999	MICROCKT,DGTL:1024 X 8 PROM,PROGRAMMED	80009	160-0096-01
A52U40	160-0096-02	B050000		MICROCKT,DGTL:1024 X 8 EPROM,PROGRAMMED	80009	160-0096-02
A52U100	156-0541-02			MICROCKT,DGTL:QUAD 2-TO 4-LINE DCDR/DEMUX	04713	SN74LS139N3
A52U101	156-0295-00			MICROCKT,LINEAR:VOLTAGE REGULATOR	04713	MC7812CT
A52U110	160-0097-01	B010100	B049999	MICROCKT,DGTL:1024 X 8 PROM,PROGRAMMED	80009	160-0097-01
A52U110	160-0097-02	B050000		MICROCKT,DGTL:1024 X 8 EPROM,PROGRAMMED	80009	160-0097-02
A52U120	160-0098-01	B010100	B049999	MICROCKT,DGTL:1024 X 8 PROM,PROGRAMMED	80009	160-0098-01
A52U120	160-0098-02	B050000		MICROCKT,DGTL:1024 X 8 EPROM,PROGRAMMED	80009	160-0098-02
A52U130	160-0099-01	B010100	B049999	MICROCKT,DGTL:1024 X 8 PROM,PROGRAMMED	80009	160-0099-01
A52U130	160-0099-02	B050000		MICROCKT,DGTL:1024 X 8 EPROM,PROGRAMMED	80009	160-0099-02
A52U140	160-0100-01	B010100	B049999	MICROCKT,DGTL:1024 X 8 PROM,PROGRAMMED	80009	160-0100-01
A52U140	160-0100-02	B050000		MICROCKT,DGTL:1024 X 8 EPROM,PROGRAMMED	80009	160-0100-02
A52U210	156-0479-02			MICROCKT,DGTL:QUAD 2-INP OR GATE	01295	SN74LS32N3
A52U220	156-0914-02			MICROCKT,DGTL:OCT ST BFR W/3 STATE OUT	01295	SN74LS240N3
A52U230	156-0914-02			MICROCKT,DGTL:OCT ST BFR W/3 STATE OUT	01295	SN74LS240N3
A52U240	156-0914-02			MICROCKT,DGTL:OCT ST BFR W/3 STATE OUT	01295	SN74LS240N3
A52U301	156-0385-02			MICROCKT,DGTL:HEX INVERTER	07263	74LS04PC3
A52U310	160-0101-01	B010100	B049999	MICROCKT,DGTL:1024 X 8 PROM,PROGRAMMED	80009	160-0101-01
A52U310	160-0101-02	B050000		MICROCKT,DGTL:1024 X 8 EPROM,PROGRAMMED	80009	160-0101-02
A52U320	160-0102-01	B010100	B049999	MICROCKT,DGTL:1024 X 8 PROM,PROGRAMMED	80009	160-0102-01
A52U320	160-0102-02	B050000		MICROCKT,DGTL:1024 X 8 EPROM,PROGRAMMED	80009	160-0102-02
A52U330	156-0479-02			MICROCKT,DGTL:QUAD 2-INP OR GATE	01295	SN74LS32N3
A52U332	156-0479-02			MICROCKT,DGTL:QUAD 2-INP OR GATE	01295	SN74LS32N3
A52U340	156-0479-02			MICROCKT,DGTL:QUAD 2-INP OR GATE	01295	SN74LS32N3
A52UA10	156-0695-00			MICROCKT,DGTL:MOS,RAM,256 X 4 STATIC	18324	2606-18
A52UA20	156-0695-00			MICROCKT,DGTL:MOS,RAM,256 X 4 STATIC	18324	2606-18
A52UA21	156-0695-00			MICROCKT,DGTL:MOS,RAM,256 X 4 STATIC	18324	2606-18
A52UA30	156-0695-00			MICROCKT,DGTL:MOS,RAM,256 X 4 STATIC	18324	2606-18
A52UA40	156-0478-02			MICROCKT,DGTL:QUAD 4-INP & GATE	01295	SN74LS21N3
A52UB01	156-0695-00			MICROCKT,DGTL:MOS,RAM,256 X 4 STATIC	18324	2606-18
A52UB10	156-0695-00			MICROCKT,DGTL:MOS,RAM,256 X 4 STATIC	18324	2606-18

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Discont	Name & Description	Mfr. Code	Mfr. Part No.
A520520	156-0695-00			MICROCKT,DGTL:MOS,64K,256 X 1 STATIC	18324	2818-18
A520521	156-0695-00			MICROCKT,DGTL:MOS,64K,256 X 1 STATIC	18324	2818-18
A520530	156-0541-02			MICROCKT,DGTL:DUAL 2-TO 4-LINE DCDR/DEMUX	04713	SN74LS139N3
A5A	670-4948-00	B010100	B040538	CIRCUIT BD ASSY:M.P.U.	80009	670-4948-00
A5A	670-4948-01	B040539	B049999	CIRCUIT BD ASSY:M.P.U.	80009	670-4948-01
A5A	670-4948-02	B050000	B080713	CIRCUIT BD ASSY:M.P.U.	80009	670-4948-02
A5A	670-4948-03	B080714	B100793	CIRCUIT BD ASSY:M.P.U.	80009	670-4948-03
A5A	670-4948-04	B100794	B100825	CIRCUIT BD ASSY:M.P.U.	80009	670-4948-04
A5A	670-4948-05	B100826	B109999	CIRCUIT BD ASSY:M.P.U.	80009	670-4948-05
				(SUBPART OF 672-0560-XX)		
A5A	670-7642-00	B110000		CIRCUIT BD ASSY:MPU	80009	670-7642-00
A5AC12	281-0773-00	B010100	B109999	CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A5AC22	283-0177-00	B010100	B109999	CAP,FXD,CER DI:1UF,+80-20%,25V	04222	SR302E105ZAATR
A5AC41	281-0773-00	B010100	B109999	CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A5AC104	281-0773-00	B010100	B109999	CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A5AC105	290-0536-00	B100826		CAP,FXD,ELCTLT:10UF,20%,25V TANTALUM	05397	T368B106M025AS
A5AC106	290-0245-00	B010100	B010112	CAP,FXD,ELCTLT:3.3UF,10%,15V	12954	DSR334K15C
A5AC106	290-0535-00	B010113		CAP,FXD,ELCTLT:33UF,20%,10V TANTALUM	56289	196D336X0010KA1
A5AC108	283-0065-00	B010113		CAP,FXD,CER DI:0.001UF,5%,100V	59660	8035-5X1Y5E102J
A5AC110	290-0535-00	B040539	B100825	CAP,FXD,ELCTLT:10UF,20%,25V TANTALUM	05397	T368B106M025AS
A5AC110	283-0177-00	B110000		CAP,FXD,CER DI:1UF,+80-20%,25V	04222	SR302E105ZAATR
A5AC114	281-0063-00	B010100	B109999	CAP,FXD,CER DI:1000PF,5%,200V	59660	855-5X2U1H102J
A5AC120	283-0422-00	B110000		CAP,FXD,CER DI:0.047UF,+80-20%,50V	04222	MA01E473Z5A
A5AC120	281-0773-00	B010100	B109999	CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A5AC204	283-0060-00	B010100	B109999	CAP,FXD,CER DI:0.001UF,+100-0%,500V	59660	831-510-Y5U0102P
A5AC205	281-0773-00	B010100	B109999	CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A5AC210	283-0422-00	B110000		CAP,FXD,CER DI:0.047UF,+80-20%,50V	04222	MA01E473Z5A
A5AC212	283-0060-00	B010100	B109999	CAP,FXD,CER DI:1000PF,5%,200V	59660	855-5X2U1H102J
A5AC218	281-0773-00	B010100	B109999	CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A5AC302	281-0773-00	B010100	B109999	CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A5AC310	283-0422-00	B110000		CAP,FXD,CER DI:0.047UF,+80-20%,50V	04222	MA01E473Z5A
A5AC314	281-0773-00	B010100	B109999	CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A5AC322	283-0177-00	B010100	B109999	CAP,FXD,CER DI:1UF,+80-20%,25V	04222	SR302E105ZAATR
A5AC324	281-0773-00	B010100	B109999	CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A5AC410	283-0422-00	B110000		CAP,FXD,CER DI:0.047UF,+80-20%,50V	04222	MA01E473Z5A
A5AC411	281-0812-00	B110000		CAP,FXD,CER DI:1000PF,10%,100V	04222	MA101C102KAA
A5AC500	281-0773-00	B110000		CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A5AC510	283-0422-00	B110000		CAP,FXD,CER DI:0.047UF,+80-20%,50V	04222	MA01E473Z5A
A5AC520	283-0422-00	B110000		CAP,FXD,CER DI:0.047UF,+80-20%,50V	04222	MA01E473Z5A
A5AC524	281-0773-00	B010100	B109999	CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A5AC540	281-0812-00	B110000		CAP,FXD,CER DI:1000PF,10%,100V	04222	MA101C102KAA
A5AC604	281-0773-00	B010100	B109999	CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A5AC606	281-0773-00	B010100	B109999	CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A5AC610	283-0422-00	B110000		CAP,FXD,CER DI:0.047UF,+80-20%,50V	04222	MA01E473Z5A
A5AC636	281-0773-00	B010100	B109999	CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A5AC700	283-0035-00	B110000		CAP,FXD,MICA DI:51PF,1%,100V	00853	D151E51CF0
A5AC701	283-0035-00	B110000		CAP,FXD,MICA DI:51PF,1%,100V	00853	D151E51CF0
A5AC702	281-0773-00	B010100	B109999	CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A5AC728	281-0773-00	B010100	B109999	CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A5AC734	283-0060-00	B010100	B109999	CAP,FXD,CER DI:0.001UF,+100-0%,500V	59660	831-510-Y5U0102P
A5AC800	283-0422-00	B110000		CAP,FXD,CER DI:0.047UF,+80-20%,50V	04222	MA01E473Z5A
A5AC802	283-0051-00	B010100	B109999	CAP,FXD,CER DI:0.0033UF,5%,100V	04222	SR301B332JAA
A5AC844	281-0773-00	B010100	B109999	CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A5AC900	283-0422-00	B110000		CAP,FXD,CER DI:0.047UF,+80-20%,50V	04222	MA01E473Z5A
A5AC912	281-0773-00	B010100	B109999	CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A5AC914	281-0773-00	B010100	B109999	CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A5AC926	283-0177-00	B010100	B109999	CAP,FXD,CER DI:1UF,+80-20%,25V	04222	SR302E105ZAATR
A5AC932	281-0773-00	B010100	B109999	CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA

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A54C934	283-0067-00	B010100	B109999	CAP,FXD,CER DI:0.001UF,10%,200V	56660	835-515-Y5E102K
A54C942	283-0177-00	B010100	B109999	CAP,FXD,CER DI:10F,+80-20%,25V	04222	SR302E105ZAATR
A54C1100	283-0422-00	B110000		CAP,FXD,CER DI:0.047UF,+80-20%,50V	04222	M0015E473Z5E
A54C1110	283-0422-00	B110000		CAP,FXD,CER DI:0.047UF,+80-20%,50V	04222	M0015E473Z5E
A54C1120	283-0177-00	B110000		CAP,FXD,CER DI:1UF,+80-20%,25V	04222	SR302E105ZAATR
A54C1230	283-0422-00	B110000		CAP,FXD,CER DI:0.047UF,+80-20%,50V	04222	M0015E473Z5E
A54C1300	283-0422-00	B110000		CAP,FXD,CER DI:0.047UF,+80-20%,50V	04222	M0015E473Z5E
A54C1320	283-0422-00	B110000		CAP,FXD,CER DI:0.047UF,+80-20%,50V	04222	M0015E473Z5E
A54C1330	281-0812-00	B110000		CAP,FXD,CER DI:1000PF,10%,100V	04222	M4101C102K5B
A54C1400	283-0422-00	B110000		CAP,FXD,CER DI:0.047UF,+80-20%,50V	04222	M0015E473Z5E
A54C1420	283-0422-00	B110000		CAP,FXD,CER DI:0.047UF,+80-20%,50V	04222	M0015E473Z5E
A54C1510	283-0422-00	B110000		CAP,FXD,CER DI:0.047UF,+80-20%,50V	04222	M0015E473Z5E
A54C1511	281-0812-00	B110000		CAP,FXD,CER DI:1000PF,10%,100V	04222	M4101C102K5B
A54C1512	290-0824-00	B110000		CAP,FXD,ELCTLT:10UF,+50-10%,25V	55680	ULA1E100TEA
A54C1520	283-0177-00	B110000		CAP,FXD,CER DI:1UF,+80-20%,25V	04222	SR302E105ZAATR
A54C1530	290-0776-00	B110000		CAP,FXD,ELCTLT:22UF,+50-10 %,10V	55680	ULA1A220TAA
A54C1531	283-0177-00	B110000		CAP,FXD,CER DI:1UF,+80-20%,25V	04222	SR302E105ZAATR
A54CR104	152-0141-02	B010100	B109999	SEMICOND DVC,DI:SM,SI,30V,150MA,37V,DO-35	03508	042527 (1N4152)
A54CR106	152-0075-00	B010100	B109999	SEMICOND DVC,DI:SM,GE,22V,30MW,DO-7	14433	G866
A54CR410	152-0141-02	B110000		SEMICOND DVC,DI:SM,SI,30V,150MA,37V,DO-35	03508	042527 (1N4152)
A54CR828	152-0141-02	B010100	B109999	SEMICOND DVC,DI:SM,SI,30V,150MA,37V,DO-35	03508	042527 (1N4152)
A54CR1340	152-0141-02	B110000		SEMICOND DVC,DI:SM,SI,30V,150MA,37V,DO-35	03508	042527 (1N4152)
A54CR1530	152-0075-00	B110000		SEMICOND DVC,DI:SM,GE,22V,30MW,DO-7	14433	G866
A54F744	159-0116-00	B010100	B080713	FUSE,CARTRIDGE:1A,125V,0.45EC	TK0946	SM1-1A
A54F744	159-0114-00	B080714		FUSE,CARTRIDGE:1A,125A,AXIAL LEADS	71400	GFA 1
A54F836	159-0116-00	B010100	B080713	FUSE,CARTRIDGE:1A,125V,0.45EC	TK0946	SM1-1A
A54F836	159-0114-00	B080714		FUSE,CARTRIDGE:1A,125A,AXIAL LEADS	71400	GFA 1
A54FB44	159-0059-00	B010100	B109999	FUSE,WIRE LEAD:5A,125V	71400	85
A54F1531	159-0059-00	B110000		FUSE,WIRE LEAD:5A,125V	71400	85
A54J700	131-3608-00	B110000		TERMINAL,PIN:0.365 L X 0.025 B42 GLD PL (QUANTITY OF 2)	22526	48283-036
A54J910	131-3608-00	B110000		TERMINAL,PIN:0.365 L X 0.025 B42 GLD PL (QUANTITY OF 2)	22526	48283-036
A54L834	108-0858-00	B010100	B109999	COIL,RF:FXD,3.2 UH	TK1345	108-0858-00
A54L1520	108-0858-00	B110000		COIL,RF:FXD,3.2 UH	TK1345	108-0858-00
A54Q212	151-0215-00	B010100	B109999	TRANSISTOR:PNP,SI,TO-92	04713	SPS8803
A54Q218	151-0215-00	B010100	B109999	TRANSISTOR:PNP,SI,TO-92	04713	SPS8803
A54Q410	151-0192-00	B110000		TRANSISTOR:SELECTED	04713	SPS8801
A54Q540	151-0192-00	B110000		TRANSISTOR:SELECTED	04713	SPS8801
A54Q728	151-0192-00	B010100	B109999	TRANSISTOR:SELECTED	04713	SPS8801
A54R106	315-0512-00	B010100	B109999	RES,FXD,FILM:5.1K OHM,5%,0.25W	57668	NTR25J-E05K1
A54R109	315-0201-00	B010113		RES,FXD,FILM:200 OHM,5%,0.25W	57668	NTR25J-E200E
A54R110	321-0385-00	B040574	B100625	RES,FXD,FILM:100K OHM,1%,0.125W,TC=T0	19701	5033ED100K0F
A54R112	315-0511-00	B010100	B109999	RES,FXD,FILM:510 OHM,5%,0.25W	19701	5043D51J0J
A54R114	315-0221-00	B010100	B109999	RES,FXD,FILM:220 OHM,5%,0.25W	57668	NTR25J-E220E
A54R120	315-0102-00	B110000		RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
A54R121	315-0102-00	B110000		RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
A54R122	315-0102-00	B010100	B109999	RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
A54R123	315-0302-00	B010100	B109999	RES,FXD,FILM:3K OHM,5%,0.25W	57668	NTR25J-E03K0
A54R124	315-0102-00	B010100	B109999	RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
A54R126	315-0102-00	B010100	B109999	RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
A54R127	315-0220-00	B010100	B109999	RES,FXD,FILM:22 OHM,5%,0.25W	19701	5043CX22R0J
A54R204	315-0203-00	B010100	B109999	RES,FXD,FILM:20K OHM,5%,0.25W	57668	NTR25J-E 20K
A54R206	315-0102-00	B010100	B109999	RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
A54R210	321-0385-00	B100626		RES,FXD,FILM:100K OHM,1%,0.125W,TC=T0	19701	5033ED100K0F
A54R212	315-0221-00	B010100	B109999	RES,FXD,FILM:220 OHM,5%,0.25W	57668	NTR25J-E220E
A54R213	315-0102-00	B010100	B109999	RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
A54R214	315-0102-00	B010100	B109999	RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
A54R216	315-0220-00	B010100	B109999	RES,FXD,FILM:22 OHM,5%,0.25W	19701	5043CX22R0J

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R54R334	315-0102-00	B010100	B109999	RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
R54R410	321-0379-00	B110000		RES,FXD,FILM:75.0K OHM,1%,0.125W,TC=TO	19701	5033ED75003F
R54R411	315-0102-00	B110000		RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
R54R412	315-0512-00	B110000		RES,FXD,FILM:5.1K OHM,5%,0.25W	57668	NTR25J-E05K1
R54R500	321-0201-00	B110000		RES,FXD,FILM:8.25K OHM,1%,0.125W,TC=TO	19701	5033ED8K25F
R54R501	321-0264-00	B110000		RES,FXD,FILM:5.49K OHM,1%,0.125W,TC=TO	07716	CEA0549003
R54R502	315-0332-00	B110000		RES,FXD,FILM:3.3K OHM,5%,0.25W	57668	NTR25J-E03K3
R54R505	321-0153-00	B110000		RES,FXD,FILM:374 OHM,1%,0.125W,TC=TO	07716	CEA0374R0F
R54R506	321-0264-00	B110000		RES,FXD,FILM:5.49K OHM,1%,0.125W,TC=TO	07716	CEA0549003
R54R510	307-0445-00	B110000		RES NTWK,FXD,FI:4.7K OHM,20%,(9)RES	32997	4310R-101-472
R54R540	315-0201-00	B110000		RES,FXD,FILM:200 OHM,5%,0.25W	57668	NTR25J-E200E
R54R600	315-0472-00	B110000		RES,FXD,FILM:4.7K OHM,5%,0.25W	57668	NTR25J-E04K7
R54R602	315-0511-00	B010100	B109999	RES,FXD,FILM:510 OHM,5%,0.25W	19701	5043CX510R0J
R54R700	321-0269-00	B110000		RES,FXD,FILM:6.19K OHM,1%,0.125W,TC=TO	07716	CEA06190JF
R54R701	321-0231-00	B110000		RES,FXD,FILM:2.49K OHM,1%,0.125W,TC=TO	19701	5033ED2K49F
R54R708	315-0102-00	B050000		RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
R54R728	315-0201-00	B010100	B109999	RES,FXD,FILM:200 OHM,5%,0.25W	57668	NTR25J-E200E
R54R802	315-0301-00	B010100	B109999	RES,FXD,FILM:300 OHM,5%,0.25W	57668	NTR25J-E300E
R54R824	307-0445-00	B010100	B109999	RES NTWK,FXD,FI:4.7K OHM,20%,(9)RES	32997	4310R-101-472
R54R832	315-0512-00	B010100	B109999	RES,FXD,FILM:5.1K OHM,5%,0.25W	57668	NTR25J-E05K1
R54R834	321-0281-00	B010100	B100825	RES,FXD,FILM:5.11K OHM,1%,0.125W,TC=TO	19701	5033ED5K11F
R54R838	321-0262-00	B100826		RES,FXD,FILM:5.23K OHM,1%,0.125W,TC=TO	19701	5033ED5K23F
R54R836	315-0472-00	B010100	B109999	RES,FXD,FILM:4.7K OHM,5%,0.25W	57668	NTR25J-E04K7
R54R838	321-0281-00	B010100	B100825	RES,FXD,FILM:5.11K OHM,1%,0.125W,TC=TO	19701	5033ED5K11F
R54R838	321-0264-00	B100826		RES,FXD,FILM:5.49K OHM,1%,0.125W,TC=TO	07716	CEA0549003
R54R844	321-0281-00	B010100	B109999	RES,FXD,FILM:5.11K OHM,1%,0.125W,TC=TO	19701	5043ED5K25F
R54R926	315-0102-00	B010100	B109999	RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
R54R932	311-1224-00	B010100	B100825	RES,VAR,NONWIR:TRMR,500 OHM,0.5W	32997	3386F-T04-501
R54R932	321-0152-00	B100826		RES,FXD,FILM:374 OHM,1%,0.125W,TC=TO	07716	CEA0374R0F
R54R934	315-0332-00	B010100	B109999	RES,FXD,FILM:3.3K OHM,5%,0.25W	57668	NTR25J-E03K3
R54R936	315-0102-00	B010100	B109999	RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
R54R938	321-0379-00	B010100	B109999	RES,FXD,FILM:75.0K OHM,1%,0.125W,TC=TO	19701	5033ED75003F
R54R940	315-0202-00	B110000		RES,FXD,FILM:2K OHM,5%,0.25W	57668	NTR25J-E 2K
R54R1110	315-0511-00	B110000		RES,FXD,FILM:510 OHM,5%,0.25W	19701	5043CX510R0J
R54R1111	315-0202-00	B110000		RES,FXD,FILM:2K OHM,5%,0.25W	57668	NTR25J-E 2K
R54R1112	315-0302-00	B110000		RES,FXD,FILM:3K OHM,5%,0.25W	57668	NTR25J-E03K0
R54R1120	307-0445-00	B110000		RES NTWK,FXD,FI:4.7K OHM,20%,(9)RES	32997	4310R-101-472
R54R1243	315-0511-00	B110000		RES,FXD,FILM:510 OHM,5%,0.25W	19701	5043CX510R0J
R54R1330	315-0201-00	B110000		RES,FXD,FILM:200 OHM,5%,0.25W	57668	NTR25J-E200E
R54R1510	315-0203-00	B110000		RES,FXD,FILM:20K OHM,5%,0.25W	57668	NTR25J-E 20K
R54R1511	315-0104-00	B110000		RES,FXD,FILM:100K OHM,5%,0.25W	57668	NTR25J-E100K
R54R1520	315-0102-00	B110000		RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
R54R1530	315-0512-00	B110000		RES,FXD,FILM:5.1K OHM,5%,0.25W	57668	NTR25J-E05K1
R54TP330	214-0579-00	B110000		TERM,TEST POINT:BRS CD PL	80009	214-0579-00
R54TP430	214-0579-00	B110000		TERM,TEST POINT:BRS CD PL	80009	214-0579-00
R54TP432	214-0579-00	B110000		TERM,TEST POINT:BRS CD PL	80009	214-0579-00
R54TP434	214-0579-00	B110000		TERM,TEST POINT:BRS CD PL	80009	214-0579-00
R54TP436	214-0579-00	B110000		TERM,TEST POINT:BRS CD PL	80009	214-0579-00
R54TP500	214-0579-00	B110000		TERM,TEST POINT:BRS CD PL	80009	214-0579-00
R54TP700	214-0579-00	B110000		TERM,TEST POINT:BRS CD PL	80009	214-0579-00
R54TP800	214-0579-00	B110000		TERM,TEST POINT:BRS CD PL	80009	214-0579-00
R54TP1110	214-0579-00	B110000		TERM,TEST POINT:BRS CD PL	80009	214-0579-00
R54TP1130	214-0579-00	B110000		TERM,TEST POINT:BRS CD PL	80009	214-0579-00
R54TP1330	214-0579-00	B110000		TERM,TEST POINT:BRS CD PL	80009	214-0579-00
A54U1	156-0567-02	B010100	B109999	MICROCKT,DGTL:DUAL J-K NEG EDGE TRIG FF	27014	DM74LS113N*
A54U12	156-0323-02	B010100	B109999	MICROCKT,DGTL:HEX INVERTER,SCHMITT-IN	18324	NM7414 (NS OR FE)
A54U22	156-0678-02	B010100	B109999	MICROCKT,DGTL:1 OF 16 DECODER/DEMUX,SCHMITT	18324	NM7154 (NS OR FE)
A54U32	156-0784-02	B010100	B109999	MICROCKT,DGTL:SYNCHRONOUS 4-BIT BINARY CNTR	01295	SN74LS163AN P3
A54U102	156-0389-03	B010100	B109999	MICROCKT,DGTL:DUAL D FLIP-FLOP	01295	SN74LS74AN P3

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0540U118	156-0093-02	B010100	B109999	MICROCKT,DGTL:HEX INV BUFFER	18324	N7416(NB OR FB)
0540U122	156-0385-02	B010100	B109999	MICROCKT,DGTL:HEX INVERTER	07263	74LS04PCDR
0540U132	156-0479-02	B110000		MICROCKT,DGTL:QUAD 2-INP OR GATE	01295	SN74LS32NP3
0540U132	156-0469-02	B010100	B109999	MICROCKT,DGTL:3/8 LINE DCDR	01295	SN74LS138N*3
0540U208	156-0541-02	B110000		MICROCKT,DGTL:DUAL 2-TO 4-LINE DCDR/DEMUX	04713	SN74LS139N3S
0540U214	156-0793-02	B010100	B109999	MICROCKT,DGTL:DUAL MONOSTABLE W/ R/ST INP	01295	SN74LS221N3
0540U216	156-0382-02	B010100	B109999	MICROCKT,DGTL:QUAD 2 INP NAND GATE OPEN	18324	N74LS00NB
0540U218	156-0479-02	B110000		MICROCKT,DGTL:QUAD 2-INP OR GATE	01295	SN74LS32NP3
0540U220	156-0388-03	B110000		MICROCKT,DGTL:DUAL D FLIP-FLOP	01295	SN74LS74ANP3
0540U222	156-0426-00	B010100	B040546	MICROCKT,DGTL:MICROPROCESSOR	04713	MC6800 (S OR P)
0540U222	156-0426-05	B040547		MICROCKT,DGTL:MICROPROCESSOR,SCREENED	04713	MC6800P3
0540U230	156-0388-03	B110000		MICROCKT,DGTL:DUAL D FLIP-FLOP	01295	SN74LS74ANP3
0540U234	156-0541-02	B010100	B109999	MICROCKT,DGTL:DUAL 2-TO 4-LINE DCDR/DEMUX	04713	SN74LS139N3S
0540U300	156-0479-02	B110000		MICROCKT,DGTL:QUAD 2-INP OR GATE	01295	SN74LS32NP3
0540U310	156-0480-02	B110000		MICROCKT,DGTL:QUAD 2-INP & GATE	01295	SN74LS08NP3
0540U312	156-0914-02	B010100	B109999	MICROCKT,DGTL:OCT ST BFR W/3 STATE OUT	01295	SN74LS240NP3
0540U314	156-0914-02	B010100	B109999	MICROCKT,DGTL:OCT ST BFR W/3 STATE OUT	01295	SN74LS240NP3
0540U320	156-0384-02	B110000		MICROCKT,DGTL:QUAD 2-INP NAND GATE	07263	74LS03PCDR
0540U327	156-1018-00	B010100	B109999	MICROCKT,DGTL:HEX THREE STATE BUFFER	04713	MC6885/MC8T95L
0540U330	156-0391-02	B110000		MICROCKT,DGTL:HEX LATCH W/CLEAR	01295	SN74LS174NP3
0540U332	156-1018-00	B010100	B109999	MICROCKT,DGTL:HEX THREE STATE BUFFER	04713	MC6885/MC8T95L
0540U334	156-1018-00	B010100	B109999	MICROCKT,DGTL:HEX THREE STATE BUFFER	04713	MC6885/MC8T95L
0540U400	156-0479-02	B110000		MICROCKT,DGTL:QUAD 2-INP OR GATE	01295	SN74LS32NP3
0540U402	156-0386-02	B010100	B109999	MICROCKT,DGTL:TRIPLE 3-INP NAND GATE	07263	74LS10PCDR
0540U412	156-0865-02	B010100	B109999	MICROCKT,DGTL:OCTAL D FF W/CLEAR	01295	SN74LS273NP3
0540U420	156-0384-02	B110000		MICROCKT,DGTL:QUAD 2-INP NAND GATE	07263	74LS03PCDR
0540U426	156-0427-00	B010100	B070679	MICROCKT,DGTL:NMOS,PERIPHERAL INTFC ADPTR	04713	MC6820 (L OR P)
0540U426	156-0427-04	B070680		MICROCKT,DGTL:PERIPHERAL INTERFACE ADPTR	04713	MC6821P
0540U430	156-0720-02	B110000		MICROCKT,DGTL:HEX DRVR,4-TO-2 LINE ENABLE	01295	SN74LS365NP3
0540U510	155-0014-01	B110000		MICROCKT,DGTL:D-D CONVERTER	80009	155-0014-01
0540U512	156-0914-02	B010100	B109999	MICROCKT,DGTL:OCT ST BFR W/3 STATE OUT	01295	SN74LS240NP3
0540U514	156-0479-02	B010100	B109999	MICROCKT,DGTL:QUAD 2-INP OR GATE	01295	SN74LS32NP3
0540U520	156-0392-03	B110000		MICROCKT,DGTL:QUAD LATCH W/CLEAR	07263	74LS175PCDR
0540U522	156-0388-03	B010100	B109999	MICROCKT,DGTL:DUAL D FLIP-FLOP	01295	SN74LS74ANP3
0540U524	156-0914-02	B010100	B109999	MICROCKT,DGTL:OCT ST BFR W/3 STATE OUT	01295	SN74LS240NP3
0540U530	156-0385-02	B110000		MICROCKT,DGTL:HEX INVERTER	07263	74LS04PCDR
0540U532	156-0480-02	B010100	B109999	MICROCKT,DGTL:QUAD 2-INP & GATE	01295	SN74LS08NP3
0540U536	156-0730-02	B010100	B109999	MICROCKT,DGTL:QUAD 2-INP NOR BFR,SCHM	01295	SN74LS33NP3
0540U538	156-0865-02	B010100	B109999	MICROCKT,DGTL:OCTAL D FF W/CLEAR	01295	SN74LS273NP3
0540U600	156-1126-01	B110000		MICROCKT,LINEAR:VOLTAGE COMPARATOR,SELECTED	01295	UA311J/A
0540U606	156-0479-02	B010100	B109999	MICROCKT,DGTL:QUAD 2-INP OR GATE	01295	SN74LS32NP3
0540U610	156-1177-01	B110000		MICROCKT,DGTL:STET LINE PRIORITY ENCODER	01295	SN74LS147NP3
0540U612	156-0479-02	B010100	B109999	MICROCKT,DGTL:QUAD 2-INP OR GATE	01295	SN74LS32NP3
0540U614	156-0384-02	B010100	B109999	MICROCKT,DGTL:QUAD 2-INP NAND GATE	07263	74LS03PCDR
0540U620	156-0720-02	B110000		MICROCKT,DGTL:HEX DRVR,4-TO-2 LINE ENABLE	01295	SN74LS365NP3
0540U626	156-0479-02	B010100	B109999	MICROCKT,DGTL:QUAD 2-INP OR GATE	01295	SN74LS32NP3
0540U630	156-0730-02	B110000		MICROCKT,DGTL:QUAD 2-INP NOR BFR,SCHM	01295	SN74LS33NP3
0540U636	156-0385-02	B010100	B109999	MICROCKT,DGTL:HEX INVERTER	07263	74LS04PCDR
0540U638	156-0730-02	B010100	B109999	MICROCKT,DGTL:QUAD 2-INP NOR BFR,SCHM	01295	SN74LS33NP3
0540U712	156-0388-03	B010100	B109999	MICROCKT,DGTL:DUAL D FLIP-FLOP	01295	SN74LS74ANP3
0540U710	156-0427-04	B110000		MICROCKT,DGTL:PERIPHERAL INTERFACE ADPTR	04713	MC6821LD
0540U712	156-0914-02	B010100	B109999	MICROCKT,DGTL:OCT ST BFR W/3 STATE OUT	01295	SN74LS240NP3
0540U714	156-0384-02	B010100	B109999	MICROCKT,DGTL:QUAD 2-INP NAND GATE	07263	74LS03PCDR
0540U722	156-0384-02	B010100	B109999	MICROCKT,DGTL:QUAD 2-INP NAND GATE	07263	74LS03PCDR
0540U728	156-0865-02	B010100	B109999	MICROCKT,DGTL:OCTAL D FF W/CLEAR	01295	SN74LS273NP3
0540U730	156-0093-02	B110000		MICROCKT,DGTL:HEX INV BUFFER	18324	N7416(NB OR FB)
0540U732	156-0392-00	B010100	B100904	MICROCKT,DGTL:QUAD LATCH W/CLEAR	01295	SN74LS175N
0540U732	156-0392-03	B100905		MICROCKT,DGTL:QUAD LATCH W/CLEAR	07263	74LS175PCDR
0540U800	156-0793-02	B110000		MICROCKT,DGTL:DUAL MONOSTABLE W/ R/ST INP	01295	SN74LS221N3

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Descont	Name & Description	Mfr. Code	Mfr. Part No.
0540810	156-0885-02	B110000		MICROCKT,DGTL:OCTAL D FF W/CLEAR	01295	SN74LS273NP3
0540814	156-0914-02	B010100	B103559	MICROCKT,DGTL:OCT ST BFR W/3 STATE OUT	01295	SN74LS240NP3
0540820	156-0914-02	B110000		MICROCKT,DGTL:OCT ST BFR W/3 STATE OUT	01295	SN74LS240NP3
0540822	156-0478-02	B010100	B103559	MICROCKT,DGTL:QUAD 2-INP OR GATE	01295	SN74LS32NP3
0540830	156-0885-02	B110000		MICROCKT,DGTL:OCTAL D FF W/CLEAR	01295	SN74LS273NP3
0540852	156-0948-02	B010100	B108604	MICROCKT,DGTL:QUAD D FF,SCRN	01295	SN74S175J4
0540852	156-0382-03	B100905		MICROCKT,DGTL:QUAD LATCH W/CLEAR	07263	74LS175PCQR
0540836	156-0056-00	B010100	B100825	MICROCKT,LINEAR:VOLTAGE COMPARATOR	04713	LM311N
0540836	156-1126-01	B100826		MICROCKT,LINEAR:VOLTAGE COMPARATOR,SELECTED	01295	LM311JG4
0540900	160-1900-00	B110000		MICROCKT,DGTL:4096 X 8 EPROM,PROM	80009	160-1900-00
0540910	156-0567-02	B110000		MICROCKT,DGTL:DUAL J-K NEG EDGE TRIG FF	27014	DM74LS112N3+
0540912	156-0347-02	B010100	B109993	MICROCKT,DGTL:10 TO 4 LINE ENCDR,SCREENED	01295	SN74147J/P3
0540920	156-0905-02	B110000		MICROCKT,DGTL:OCTAL BFR W/3 STATE OUT	01295	SN74LS244NP3
0540926	155-0014-01	B010100	B109996	MICROCKT,DGTL:A-D CONVERTER	80009	155-0014-01
0540930	156-0852-02	B110000		MICROCKT,DGTL:HEX BUS DRVR W/3 STATE OUT	01295	SN74LS367NP3
0540 1000	160-1899-00	B110000		MICROCKT,DGTL:4096 X 8 EPROM,PROM	80009	160-1899-00
0540 1010	156-1342-00	B110000		MICROCKT,DGTL:NMOS,8 BIT M/CLOCK & RAM	04713	MC6802P
0540 1030	156-1025-02	B110000		MICROCKT,DGTL:INVERTING QUAD BUS XCVR,SCRN	01295	SN74LS242(NP3)
0540 1120	156-1111-02	B110000		MICROCKT,DGTL:OCTAL BUS XCVRS W/3 ST OUT	01295	SN74LS245N3
0540 1130	156-1025-02	B110000		MICROCKT,DGTL:INVERTING QUAD BUS XCVR,SCRN	01295	SN74LS242(NP3)
0540 1250	160-1901-00	B110000		MICROCKT,DGTL:4096 X 8 EPROM,PROM	80009	160-1901-00
0540 1210	156-0465-02	B110000		MICROCKT,DGTL:8-INP NAND GATE	01295	SN74LS133NP3
0540 1220	156-0463-02	B110000		MICROCKT,DGTL:3/8 LINE DCDR	01295	SN74LS138NP3
0540 1230	156-0723-02	B110000		MICROCKT,DGTL:HEX DRVR,4-TO-2 LINE ENABLE	01295	SN74LS366NP3
0540 1310	156-0385-02	B110000		MICROCKT,DGTL:HEX INVERTER	07263	74LS04PCQR
0540 1320	156-0486-02	B110000		MICROCKT,DGTL:QUAD 2-INP & GATE	01295	SN74LS08NP3
0540 1330	156-0382-02	B110000		MICROCKT,DGTL:QUAD 2 INP NAND GATE DIGN	18324	N74LS00NB
0540 1400	156-1026-00	B110000		MICROCKT,DGTL:NMOS,1024 X 4 STATIC RAM	34335	AM9114EDC
0540 1410	156-0733-02	B110000		MICROCKT,DGTL:DUAL MONOSTABLE MV W/ST INP	01295	SN74LS221N3
0540 1420	156-0382-02	B110000		MICROCKT,DGTL:QUAD 2 INP NAND GATE DIGN	18324	N74LS00NB
0540 1430	156-0388-03	B110000		MICROCKT,DGTL:DUAL D FLIP-FLOP	01295	SN74LS74AN3
0540 1500	156-1026-00	B110000		MICROCKT,DGTL:NMOS,1024 X 4 STATIC RAM	34335	AM9114EDC
0540 1310	131-0566-00	B110000		BUS,CNDCT:DUMMY RES,0.094 OD X 0.225 L	24546	043 07
0540 1631	131-0566-00	B110000		BUS,CNDCT:DUMMY RES,0.094 OD X 0.225 L	24546	043 07
056	670-4946-00	B010100	B258999	CIRCUIT BD ASSY:7912AD/GPIB INTERFACE	80009	670-4946-00
056	670-4946-01	B259000	B259999	CIRCUIT BD ASSY:7912AD/GPIB INTERFACE	80009	670-4946-01
056	670-4946-02	B260000	B100869	CIRCUIT BD ASSY:7912AD/GPIB INTERFACE	80009	670-4946-02
056	670-4946-03	B100870	B110999	CIRCUIT BD ASSY:7912AD/GPIB INTERFACE	80009	670-4946-03
056	670-4946-04	B110000	B111210	CIRCUIT BD ASSY:INTERFACE	80009	670-4946-04
056	670-4946-05	B111211		CIRCUIT BD ASSY:INTERFACE	80009	670-4946-05
056C30	290-0745-00			CAP,FXD,ELCTLT:220UF,+50-10%,25V	54473	ECE-025V221L
056C32	290-0745-00			CAP,FXD,ELCTLT:220UF,+50-10%,25V	54473	ECE-025V221L
056C100	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
056C112	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
056C120	283-0077-00			CAP,FXD,CER DI:330PF,5%,500V	59660	831-500B331J
056C122	283-0065-01			CAP,FXD,CER DI:0.001UF,5%,100V	59821	250N601J102
056C130	290-0620-00			CAP,FXD,MICA DI:470PF,1%,300V	00853	D155F471FD
056C132	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
056C134	283-0649-00			CAP,FXD,MICA DI:105PF,1%,300V	00853	D155F1052FD
056C200	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
056C202	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
056C208	281-0583-00			CAP,FXD,CER DI:470PF,10%,500V	52763	2500L2007 470M
056C212	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
056C214	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
056C216	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
056C300	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
056C307	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
056C306	281-0583-00			CAP,FXD,CER DI:470PF,10%,500V	52763	2500L2007 470M

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Discont	Name & Description	Mfr. Code	Mfr. Part No.
A56C310	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A56C312	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A56C320	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A56C410	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A56C420	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A56C432	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A56C502	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A56C512	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A56C520	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A56C532	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A56C602	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A56C604	281-0536-00			CAP,FXD,CER DI:1000PF,10%,500V	52763	291FL1D1Y 1N0DM3
A56C620	281-0773-00			CAP,FXD,CER DI:0.01UF,10%,100V	04222	MA201C103KAA
A56C634	290-0778-00			CAP,FXD,ELCTLT:22UF,+50-10 %,10V	55680	ULB1022D1BB
A56CR312	152-0141-02			SEMICOND DVC,DI:SM,SI,30V,150MA,30V,00-35	03508	D82527 (1N4152)
A56CR322	152-0141-02			SEMICOND DVC,DI:SM,SI,30V,150MA,30V,00-35	03508	D82527 (1N4152)
A56CR568	152-0141-02			SEMICOND DVC,DI:SM,SI,30V,150MA,30V,00-35	03508	D82527 (1N4152)
A56Q600	151-0190-00			TRANSISTOR:NPN,SI,TO-92	80009	151-0190-00
A56Q606	151-0192-00			TRANSISTOR:SELECTED	04713	SPS8801
A56R104	315-0471-00			RES,FXD,FILM:470 OHM,5%,0.25W	57668	NTR25J-E470E
A56R120	315-0512-00			RES,FXD,FILM:5.1K OHM,5%,0.25W	57668	NTR25J-E05K1
A56R122	321-0305-00			RES,FXD,FILM:14.7K OHM,1%,0.125W,TC=TO	19701	5033E214K70F
A56R124	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
A56R130	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
A56R132	315-0512-00			RES,FXD,FILM:5.1K OHM,5%,0.25W	57668	NTR25J-E05K1
A56R134	315-0103-00			RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043E10B03J
A56R200	311-1917-00			RES,VAR,NONWW:TRMR,5K OHM,10%,0.5 W	32997	3386C-T07-502
A56R202	315-0510-00			RES,FXD,FILM:51 OHM,5%,0.25W	19701	5043E51B03J
A56R204	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
A56R206	315-0391-00	B060300	B100869	RES,FXD,FILM:390 OHM,5%,0.25W	57668	NTR25J-E39OE
A56R206	321-0135-00			RES,FXD,FILM:249 OHM,1%,0.125W,TC=TO	07716	CEA0249B0F
A56R207	315-0391-00	B060300	B100869	RES,FXD,FILM:390 OHM,5%,0.25W	57668	NTR25J-E39OE
A56R208	315-0471-00			RES,FXD,FILM:470 OHM,5%,0.25W	57668	NTR25J-E47OE
A56R210	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
A56R212	321-0277-00			RES,FXD,FILM:7.50K OHM,1%,0.125W,TC=TO	24546	MC55075D1F
A56R214	315-0512-00			RES,FXD,FILM:5.1K OHM,5%,0.25W	57668	NTR25J-E05K1
A56R232	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
A56R238	315-0391-00	B100870		RES,FXD,FILM:390 OHM,5%,0.25W	57668	NTR25J-E39OE
A56R300	311-1917-00			RES,VAR,NONWW:TRMR,5K OHM,10%,0.5 W	32997	3386C-T07-502
A56R302	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
A56R304	321-0135-00			RES,FXD,FILM:249 OHM,1%,0.125W,TC=TO	07716	CEA0249B0F
A56R306	321-0277-00			RES,FXD,FILM:7.50K OHM,1%,0.125W,TC=TO	24546	MC55075D1F
A56R308	315-0510-00			RES,FXD,FILM:51 OHM,5%,0.25W	19701	5043E51B03J
A56R310	315-0512-00			RES,FXD,FILM:5.1K OHM,5%,0.25W	57668	NTR25J-E05K1
A56R312	315-0752-00			RES,FXD,FILM:7.5K OHM,5%,0.25W	57668	NTR25J-E07K5
A56R322	315-0752-00			RES,FXD,FILM:7.5K OHM,5%,0.25W	57668	NTR25J-E07K5
A56R332	315-0391-00	B100870		RES,FXD,FILM:390 OHM,5%,0.25W	57668	NTR25J-E39OE
A56R334	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
A56R400	307-0502-00			RES NTWK,FXD,FI:(9) 1.8K OHM,20%,0.125W	11236	750-101-R1.8KOHM
A56R420	307-0542-00			RES NTWK,FXD,FI:(5)10K OHM,5%,0.125W	01121	1066103G7066103
A56R430	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
A56R600	315-0560-00			RES,FXD,FILM:56 OHM,5%,0.25W	57668	NTR25J-E56E0
A56R610	321-0173-00	B010100	B111210	RES,FXD,FILM:619 OHM,1%,0.125W,TC=TO	07716	CEB0619B0F
A56R610	321-0203-00	B111211		RES,FXD,FILM:1.27K OHM,1%,0.125W,TC=TO	07716	CEB01270F
A56R611	321-0237-00			RES,FXD,FILM:2.87K OHM,1%,0.125W,TC=TO	07716	CEB0 2870F
A56R612	307-0542-00			RES NTWK,FXD,FI:(5)10K OHM,5%,0.125W	01121	1066103G7066103
A56R614	321-0213-00			RES,FXD,FILM:1.62K OHM,1%,0.125W,TC=TO	07716	CEB01620F
A56S400	260-1827-00			SWITCH,ROCKER:5,3PST	81073	7698015
A56S402	260-1827-00			SWITCH,ROCKER:5,3PST	81073	7698015

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Discont	Name & Description	Mfr. Code	Mfr. Part No.
A56U2	156-0385-02			MICROCKT,DGTL:HEX INVERTER	07263	74LS04PCDP
A56U12	156-0383-02			MICROCKT,DGTL:QUAD 2-INP NOR GATE	18324	N74LS02N3
A56U22	156-0388-03			MICROCKT,DGTL:DUAL D FLIP-FLOP	01295	SN74LS74AN3
A56U32	156-0388-03			MICROCKT,DGTL:DUAL D FLIP-FLOP	01295	SN74LS74AN3
A56U100	156-0479-02			MICROCKT,DGTL:QUAD 2-INP OR GATE	01295	SN74LS32N3
A56U132	156-0388-03			MICROCKT,DGTL:DUAL D FLIP-FLOP	01295	SN74LS74AN3
A56U110	156-0480-02			MICROCKT,DGTL:QUAD 2-INP & GATE	01295	SN74LS08N3
A56U117	156-0037-02			MICROCKT,DGTL:DUAL 2-W,2-INP & OR INVT GATE ,SCRN	18324	N74S1040 OR F3)
A56U120	156-0405-03			MICROCKT,DGTL:DUAL RETRIG MONOSTABLE MV	18324	N9602(N8 OR F3)
A56U122	156-0385-02			MICROCKT,DGTL:HEX INVERTER	07263	74LS04PCDP
A56U130	156-0405-03			MICROCKT,DGTL:DUAL RETRIG MONOSTABLE MV	18324	N9602(N8 OR F3)
A56U132	156-0721-02			MICROCKT,DGTL:QUAD ST 2-INP NAND GATES	18324	N74LS132(N8DPB)
A56U200	156-0770-00	B010100	B100869	MICROCKT,LINEAR:OPNL AMPL	27014	LF356H
A56U200	156-1156-00	B100870		MICROCKT,LINEAR:OPERATIONAL AMPLIFIER	80009	156-1156-00
A56U202	156-0852-02			MICROCKT,DGTL:HEX BUS DRVR W/3 STATE OUT	01295	SN74LS367N3
A56U210	156-0388-03			MICROCKT,DGTL:DUAL D FLIP-FLOP	01295	SN74LS74AN3
A56U212	156-0617-02			MICROCKT,DGTL:DUAL 4 BIT CNTR,SCREENED	01295	SN74S195N3
A56U220	156-0382-02			MICROCKT,DGTL:QUAD 2 INP NAND GATE BURN	18324	N74LS00N3
A56U222	156-0479-02			MICROCKT,DGTL:QUAD 2-INP OR GATE	01295	SN74LS32N3
A56U230	156-0388-03			MICROCKT,DGTL:DUAL D FLIP-FLOP	01295	SN74LS74AN3
A56U232	156-0419-02			MICROCKT,DGTL:DUAL 4 INP NAND LINE DRVR	07263	74S140PCDP
A56U300	156-0770-00	B010100	B100869	MICROCKT,LINEAR:OPNL AMPL	27014	LF356H
A56U300	156-1156-00	B100870		MICROCKT,LINEAR:OPERATIONAL AMPLIFIER	80009	156-1156-00
A56U302	156-0721-02			MICROCKT,DGTL:HEX DRVR,4-TO-2 LINE ENABLE	01295	SN74LS138N3
A56U310	156-0927-00	B010100	B100904	MICROCKT,LINEAR:DGTL TO ANLG CONV	18324	MC3410(LF OR F)
A56U310	156-0927-02	B100905		MICROCKT,LINEAR:DIGITAL/ANALOG CONVERTER	80009	156-0927-02
A56U312	156-0721-02			MICROCKT,DGTL:HEX DRVR,4-TO-2 LINE ENABLE	01295	SN74LS138N3
A56U320	156-0927-00	B010100	B100904	MICROCKT,LINEAR:DGTL TO ANLG CONV	18324	MC3410(LF OR F)
A56U320	156-0927-02	B100905		MICROCKT,LINEAR:DIGITAL/ANALOG CONVERTER	80009	156-0927-02
A56U322	156-0482-02			MICROCKT,DGTL:QUAD 2-INP & GATE	01295	SN74LS08N3
A56U330	156-0982-00	B010100	B100904	MICROCKT,DGTL:OCTAL D EDGE TRIG FLIP FLOP	18324	74LS374(N OR F)
A56U330	156-0982-03	B100905	B109999	MICROCKT,DGTL:OCTAL-D-EDGE TRIG FF	01295	SN74LS374N3
A56U332	156-0388-03			MICROCKT,DGTL:DUAL D FLIP-FLOP	01295	SN74LS74AN3
A56U400	156-0382-02			MICROCKT,DGTL:QUAD 2 INP NAND GATE BURN	18324	N74LS00N3
A56U410	156-0720-02			MICROCKT,DGTL:HEX DRVR,4-TO-2 LINE ENABLE	01295	SN74LS368N3
A56U412	156-0427-00	B010100	B070679	MICROCKT,DGTL:NMOS,PERIPHERAL INTFC ADPTR	04713	MC6820 (L OR P)
A56U412	156-0427-01	B070680		MICROCKT,DGTL:PERIPHERAL INTERFACE ADPTR	04713	MC6821L0
A56U420	156-0982-00	B010100	B100904	MICROCKT,DGTL:OCTAL D EDGE TRIG FLIP FLOP	18324	74LS374(N OR F)
A56U420	156-0982-02	B100905		MICROCKT,DGTL:LS37L,OCTAL D EDGE TRIG F/F	01295	SN74LS374N
A56U430	156-0982-00	B010100	B100904	MICROCKT,DGTL:OCTAL D EDGE TRIG FLIP FLOP	18324	74LS374(N OR F)
A56U430	156-0982-02	B100905		MICROCKT,DGTL:LS37L,OCTAL D EDGE TRIG F/F	01295	SN74LS374N
A56U432	160-0112-01	B010100	B049999	MICROCKT,DGTL:2048 X 8 PROM,PROGRAMMED	80009	160-0112-01
A56U432	160-0112-03	B050000	B109999	MICROCKT,DGTL:2048 X 8 EPROM,PROGRAMMED	80009	160-0112-03
A56U500	156-0720-02			MICROCKT,DGTL:HEX DRVR,4-TO-2 LINE ENABLE	01295	SN74LS368N3
A56U502	156-0914-02			MICROCKT,DGTL:OCT ST BFR W/3 STATE OUT	01295	SN74LS240N3
A56U510	156-1025-00	B010100	B100904	MICROCKT,DGTL:TTL,INVERTING QUAD BUS XCVR	04713	SN74LS242N
A56U510	156-1025-02	B100905		MICROCKT,DGTL:INVERTING QUAD BUS XCVR,SCRN	01295	SN74LS242(MP3)
A56U512	156-0914-02			MICROCKT,DGTL:OCT ST BFR W/3 STATE OUT	01295	SN74LS240N3
A56U520	156-1025-00	B010100	B100904	MICROCKT,DGTL:TTL,INVERTING QUAD BUS XCVR	04713	SN74LS242N
A56U520	156-1025-02	B100905		MICROCKT,DGTL:INVERTING QUAD BUS XCVR,SCRN	01295	SN74LS242(MP3)
A56U522	156-0488-02			MICROCKT,DGTL:3/8 LINE DCDR	01295	SN74LS138N3
A56U528	155-0022-00			MICROCKT,DGTL:CHANNEL SWITCH	80009	155-0022-00
A56U530	156-1133-00			MICROCKT,INTFC:TTL,QUAD 3-STATE XCVR	04713	MC3448P
A56U532	156-1133-00			MICROCKT,INTFC:TTL,QUAD 3-STATE XCVR	04713	MC3448P
A56U600	156-0481-02			MICROCKT,DGTL:TRIPLE 3-INP & GATE	01295	SN74LS11N3
A56U602	156-0386-02			MICROCKT,DGTL:TRIPLE 3-INP NAND GATE	07263	74LS10PCDP
A56U610	156-0851-02			MICROCKT,DGTL:QUAD TR BUS DRIVER,SCREENED	18324	N8T09B(N8 OR F8)
A56U612	156-0385-02			MICROCKT,DGTL:HEX INVERTER	07263	74LS04PCDP

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Dscont	Name & Description	Mfr. Code	Mfr. Part No.
U560620	156-0480-02			MICROCKT,DGTL:QUAD 2-INP & GATE	01295	SN74LS08N3
U560622	156-0383-02			MICROCKT,DGTL:QUAD 2-INP NOR GATE	18324	N74LS02AB
U560630	156-0800-00			MICROCKT,DGTL:TTL,QUAD BUS XCVR	04713	MC3441P
U560632	156-0800-00			MICROCKT,DGTL:TTL,QUAD BUS XCVR	04713	MC3441P
A62	670-5157-00	B010100	B099999	CIRCUIT BD ASSY:POWER CONNECTOR	80009	670-5157-00
A62	670-5157-01	B090000		CIRCUIT BD ASSY:POWER CONNECTOR	80009	670-5157-01
A62C412	290-0745-00			CAP,FXD,ELCTLT:22UF,+50-10%,25V	54473	ECE-025V22L
A62C414	290-0745-00			CAP,FXD,ELCTLT:22UF,+50-10%,25V	54473	ECE-025V22L
A62C416	290-0745-00			CAP,FXD,ELCTLT:22UF,+50-10%,25V	54473	ECE-025V22L
A62C436	283-0178-00			CAP,FXD,CER DI:0.1UF,+80-20%,100V	05397	C330C104Z1U1CA
A62C442	283-0178-00			CAP,FXD,CER DI:0.1UF,+80-20%,100V	05397	C330C104Z1U1CA
A62C536	283-0178-00			CAP,FXD,CER DI:0.1UF,+80-20%,100V	05397	C330C104Z1U1CA
A62C606	283-0178-00			CAP,FXD,CER DI:0.1UF,+80-20%,100V	05397	C330C104Z1U1CA
A62C714	290-0768-00			CAP,FXD,ELCTLT:10UF,+50-10%,100VDC	54473	ECE-A100V10L
A62C715	290-0745-00			CAP,FXD,ELCTLT:22UF,+50-10%,25V	54473	ECE-025V22L
A62C814	290-0745-00			CAP,FXD,ELCTLT:22UF,+50-10%,25V	54473	ECE-025V22L
A62C815	290-0745-00			CAP,FXD,ELCTLT:22UF,+50-10%,25V	54473	ECE-025V22L
A62C936	283-0178-00			CAP,FXD,CER DI:0.1UF,+80-20%,100V	05397	C330C104Z1U1CA
A62C942	283-0178-00			CAP,FXD,CER DI:0.1UF,+80-20%,100V	05397	C330C104Z1U1CA
A62C944	283-0178-00			CAP,FXD,CER DI:0.1UF,+80-20%,100V	05397	C330C104Z1U1CA
A62C948	283-0178-00			CAP,FXD,CER DI:0.1UF,+80-20%,100V	05397	C330C104Z1U1CA
A62C949	283-0203-00			CAP,FXD,CER DI:0.47UF,20%,50V	04222	SR305C474MAA
A62C310	290-0768-00			CAP,FXD,ELCTLT:10UF,+50-10%,100VDC	54473	ECE-A100V10L
A62C936	283-0008-00			CAP,FXD,CER DI:0.1UF,20%,500V	51642	500-500-X7R-104M
A62C540	283-0178-00			CAP,FXD,CER DI:0.1UF,+80-20%,100V	05397	C330C104Z1U1CA
A62C945	283-0008-00			CAP,FXD,CER DI:0.1UF,20%,500V	51642	500-500-X7R-104M
A62F134	159-0096-00			FUSE,CARTRIDGE:3AG,7.5A,32V,0.55EC	71400	AGC-CH-7 1/2
A62F140	159-0096-00			FUSE,CARTRIDGE:3AG,7.5A,32V,0.55EC	71400	AGC-CH-7 1/2
A62F434	159-0096-00			FUSE,CARTRIDGE:3AG,7.5A,32V,0.55EC	71400	AGC-CH-7 1/2
A62F438	159-0096-00			FUSE,CARTRIDGE:3AG,7.5A,32V,0.55EC	71400	AGC-CH-7 1/2
A62F632	159-0096-00			FUSE,CARTRIDGE:3AG,7.5A,32V,0.55EC	71400	AGC-CH-7 1/2
A62F636	159-0096-00			FUSE,CARTRIDGE:3AG,7.5A,32V,0.55EC	71400	AGC-CH-7 1/2
A62F732	159-0096-00			FUSE,CARTRIDGE:3AG,7.5A,32V,0.55EC	71400	AGC-CH-7 1/2
A62F736	159-0096-00			FUSE,CARTRIDGE:3AG,7.5A,32V,0.55EC	71400	AGC-CH-7 1/2
A62R602	315-0202-00			RES,FXD,FILM:2K OHM,5%,0.25W	57668	NTR25J-E 2K
A62R606	315-0221-00			RES,FXD,FILM:220 OHM,5%,0.25W	57668	NTR25J-E220E
A68	670-5152-00	B010100	B059999	CIRCUIT BD ASSY:MAIN INTERCONNECT	80009	670-5152-00
A68	670-5152-01	B060000	B089999	CIRCUIT BD ASSY:MAIN INTERCONNECT	80009	670-5152-01
A68	670-5152-02	B090000	B100940	CIRCUIT BD ASSY:MAIN INTERCONNECT	80009	670-5152-02
A68	670-5152-04	B100941		CIRCUIT BD ASSY:MAIN INTERCONNECT	80009	670-5152-04
A68CR18	152-0141-02			SEMICOND DVC,DI:SR,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
A68CR422	152-0141-02			SEMICOND DVC,DI:SR,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
A68CR424	152-0141-02			SEMICOND DVC,DI:SR,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
A68CR426	152-0141-02			SEMICOND DVC,DI:SR,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
A68CR52D	152-0141-02			SEMICOND DVC,DI:SR,SI,30V,150MA,30V,00-35	03508	D42527 (1N4152)
A68R14	321-0193-00	B010100	B100940	RES,FXD,FILM:1E OHM,1%,0.125W,TC=TO	19701	5033ED1R00F
A68R110	321-0193-00	B010100	B100940	RES,FXD,FILM:1E OHM,1%,0.125W,TC=TO	19701	5033ED1R00F
A68R14	131-0566-00	B100941		BUS,CNCT:0.094 OD X 0.225 L	24546	048 07
A68R110	131-0566-00	B100941		BUS,CNCT:0.094 OD X 0.225 L	24546	048 07
A72	670-5155-00	B010100	B039999	CIRCUIT BD ASSY:HIGH VOLTAGE OSC	80009	670-5155-00
A72	670-5155-01	B040000	B059999	CIRCUIT BD ASSY:HIGH VOLTAGE OSC	80009	670-5155-01
A72	670-5155-02	B060000		CIRCUIT BD ASSY:HIGH VOLTAGE OSC	80009	670-5155-02
A72C8	290-0295-00			CAP,FXD,ELCTLT:20UF,+75-10%,50V	20863	1500C20G050A2
A72C11	283-0010-00	B010113		CAP,FXD,CER DI:0.05UF,+80-20%,50V	04222	SR305E503100

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Dscont	Name & Description	Mfr. Code	Mfr. Part No.
A72C12	283-0051-00			CAP,FXD,CER DI:0.0033UF,5%,100V	04222	SR331A332JAA
A72C13	283-0177-00	B010100	B010112	CAP,FXD,CER DI:1UF,+80-20%,25V	04222	SR332E105ZAATR
A72C14	283-0085-01			CAP,FXD,CER DI:0.001UF,5%,100V	59821	230A50L102J
A72C16	283-0085-01			CAP,FXD,CER DI:0.001UF,5%,100V	59821	230A50L102J
A72C102	283-0198-00			CAP,FXD,CER DI:0.22UF,20%,50V	05397	C330C224M5U1CB
A72C112	283-0129-00			CAP,FXD,CER DI:0.56UF,20%,100V	04222	SR561C564MAA
A72C114	290-0782-00			CAP,FXD,ELCTLT:4.7UF,+75-10%,35VDC	55680	ULB1V4R7T[illegible]
A72C116	290-0782-00			CAP,FXD,ELCTLT:4.7UF,+75-10%,35VDC	55680	ULB1V4R7T[illegible]
A72C202	281-0523-00			CAP,FXD,CER DI:100PF,20%,300V	52763	290P,0027 100PHS
A72CR12	152-0141-02			SEMICOND DVC,DI:SI,1,30V,150MA,30V,00-35	03508	262527 (1N4152)
A72CR14	152-0141-02	B060000		SEMICOND DVC,DI:SI,1,30V,150MA,30V,00-35	03508	262527 (1N4152)
A72CR18	152-0141-02			SEMICOND DVC,DI:SI,1,30V,150MA,30V,00-35	03508	262527 (1N4152)
A72CR19	152-0141-02			SEMICOND DVC,DI:SI,1,30V,150MA,30V,00-35	03508	262527 (1N4152)
A72L101	108-0422-00			COIL,RF:FIXED,80UH	80009	108-0422-00
A72Q2	151-0496-00			TRANSISTOR:NPN,SI	80009	151-0496-00
A72Q12	151-0350-00			TRANSISTOR:PNP,SI,TO-92	04713	SPS8700
A72Q14	151-0192-00			TRANSISTOR:SELECTED	04713	SPS8801
A72Q15	151-0103-00			TRANSISTOR:NPN,SI,TO-5	04713	SM1307
A72Q18	151-0103-00			TRANSISTOR:NPN,SI,TO-5	04713	SM1307
A72R13	321-0290-00			RES,FXD,FILM:12.2K OHM,1%,0.125W,TC=T0	19701	5033E12K20F
A72R11	321-0315-00			RES,FXD,FILM:18.7K OHM,1%,0.125W,TC=T0	19701	5033E18K70F
A72R12	315-0513-00			RES,FXD,FILM:51K OHM,5%,0.25W	57668	NTR25J-E51K0
A72R13	315-0513-00			RES,FXD,FILM:51K OHM,5%,0.25W	57668	NTR25J-E51K0
A72R14	315-0681-00			RES,FXD,FILM:680 OHM,5%,0.25W	57668	NTR25J-E680E
A72R15	321-0327-00			RES,FXD,FILM:24.9K OHM,1%,0.125W,TC=T0	07716	CEA0249G1F
A72R16	308-0585-00			RES,FXD,WW:1.5 OHM,5%,1W	75042	BW-20-1R500J
A72R17	321-0293-00			RES,FXD,FILM:11.0K OHM,1%,0.125W,TC=T0	07716	CEA0110G1F
A72R18	315-0104-00			RES,FXD,FILM:100K OHM,5%,0.25W	57668	NTR25J-E100K
A72R19	321-0137-00			RES,FXD,FILM:1.10K OHM,1%,0.125W,TC=T0	07716	CEA0110G0F
A72R20	315-0102-00	B060000		RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
A72R105	315-0512-00	B040000		RES,FXD,FILM:5.1K OHM,5%,0.25W	57668	NTR25J-E0541
A72R111	315-0562-00			RES,FXD,FILM:5.6K OHM,5%,0.25W	57668	NTR25J-E0546
A72R208	315-0302-00			RES,FXD,FILM:3K OHM,5%,0.25W	57668	NTR25J-E03K0
A72T102	120-1175-00			TRANSFORMER,RF:FILSAMNT	80009	120-1175-00
A72U12	156-0462-00	B010100	B100804	MICROCKT,LINEAR:TIMER	27014	LM555CN
A72U12	156-0462-02	B100805		MICROCKT,LINEAR:TIMER,CHECKED	27014	LM555CN/Q+
A72VR14	152-0514-00			SEMICOND DVC,DI:ZEN,SI,10V,1%,0.4W,00-7	04713	SZ9154L
A72VR16	152-0485-00	B010100	B056699	SEMICOND DVC,DI:ZEN,SI,15V,5%,1W,T0-41	12954	D28412D5J
A72VR18	152-0384-00	B060000		SEMICOND DVC,DI:ZEN,SI,20V,5%,0.4W,00-7	15238	25411
A74	119-0452-03	B010100	B049999	POWER SUPPLY:100V,POTTED	80009	119-0452-03
A74	119-0452-05	B050000	B100312	POWER SUPPLY:100V,POTTED	80009	119-0452-05
A74	119-0452-06	B100313	B111279	POWER SUPPLY:100V,POTTED	80009	119-0452-06
A74	119-0452-07	B111280		POWER SUPPLY:100V,POTTED	80009	119-0452-07
A76	670-8302-00	B111250		CIRCUIT BD ASSY:HEADING SUN SOCKET (NO ELECTRICAL PARTS)	80009	670-8302-00
A80	670-4957-00	B010100	B010260	CIRCUIT BD ASSY:LINE POWER	80009	670-4957-00
A80	670-4957-01	B010261	B010286	CIRCUIT BD ASSY:LINE POWER	80009	670-4957-01
A80	670-4957-02	B010287	B020421	CIRCUIT BD ASSY:LINE POWER	80009	670-4957-02
A80	670-4957-00	B020422	B033359	CIRCUIT BD ASSY:LINE POWER	80009	670-4957-00
A80	670-4957-03	B040000	B059359	CIRCUIT BD ASSY:LINE POWER	80009	670-4957-03
A80	670-4957-04	B060000	B100340	CIRCUIT BD ASSY:LINE POWER	80009	670-4957-04
A80	670-4957-05	B100941		CIRCUIT BD ASSY:LINE POWER	80009	670-4957-05
A80C68	290-0778-00			CAP,FXD,ELCTLT:1000UF,+50-10%,25VDC	54473	ECE-B25A1001
A80C108	290-0782-00			CAP,FXD,ELCTLT:4.7UF,+75-10%,35VDC	55680	ULB1V4R7T[illegible]

Component No.	Tektronix Part No	Serial/Assembly No. Effective	Serial/Assembly No. Discont	Name & Description	Mfr. Code	Mfr. Part No
A80C114	285-1050-00			CAP,FXD,PLASTIC:0.1UF,1%,200V	14752	23081C104F
A80C142	290-0779-00			CAP,FXD,ELCTLT:10 UF +50% -10%,50VDC	56289	5020237
A80C148	290-0758-00			CAP,FXD,ELCTLT:2.2UF,+50-10%,200V	56289	5020227
A80C164	283-0167-00			CAP,FXD,CER DI:0.1UF,10%,100V	04222	3430-100C-104K
A80C222	283-0047-00			CAP,FXD,CER DI:270PF,5%,500V	55660	8831604250271J
A80C228	283-0047-00			CAP,FXD,CER DI:270PF,5%,500V	55660	8831604250271J
A80C294	290-0779-00			CAP,FXD,ELCTLT:10 UF +50% -10%,50VDC	56289	5020237
A80C296	283-0129-00			CAP,FXD,CER DI:0.56UF,20%,100V	04222	SR501C564MAA
A80C298	283-0129-00			CAP,FXD,CER DI:0.56UF,20%,100V	04222	SR501C564MAA
A80C370	283-0177-00	B100941		CAP,FXD,CER DI:1UF,+80-20%,25V	04222	SR302E105ZAATR
A80C326	295-1050-00			CAP,FXD,PLASTIC:0.1UF,1%,200V	14752	23081C104F
A80C367	283-0129-00	B100941		CAP,FXD,CER DI:0.56UF,20%,100V	04222	SR501C564MAA
A80C376	283-0129-00			CAP,FXD,CER DI:0.56UF,20%,100V	04222	SR501C564MAA
A80C416	283-0032-00			CAP,FXD,CER DI:470PF,5%,500V	59660	831-000-25E471J
A80C464	290-0512-00			CAP,FXD,ELCTLT:22UF,20%,15V	05397	T368B226M015AS
A80C468	283-0008-00			CAP,FXD,CER DI:0.01UF,+80-20%,150V	59821	0103Z40Z5UJDCTR
A80C472	290-0779-00			CAP,FXD,ELCTLT:10 UF +50% -10%,50VDC	56289	5020237
A80C536	290-0802-00			CAP,FXD,ELCTLT:4700UF,+75-10%,16V	56289	078401
A80C566	290-0779-00			CAP,FXD,ELCTLT:10 UF +50% -10%,50VDC	56289	5020237
A80C606	283-0351-00	B100941		CAP,FXD,CER DI:5000PF,20%,3000V	51406	DHR17F502M3DX
A80C608	119-1169-00	B100941		CAPACITOR-RES:0.1UF,20% & 22 OHM,10%,250VAC	14752	RC1782-1
A80C610	119-1169-00	B100941		CAPACITOR-RES:0.1UF,20% & 22 OHM,10%,250VAC	14752	RC1782-1
A80CR120	152-0400-00			SEMICOND DVC,DI:RECT,SI,400V,1A	04713	SR1977X
A80CR126	152-0400-00			SEMICOND DVC,DI:RECT,SI,400V,1A	04713	SR1977X
A80CR152	152-0066-00			SEMICOND DVC,DI:RECT,SI,400V,1A,DO-41	05828	GP10G-020
A80CR154	152-0423-00			SEMICOND DVC,DI:RECT,SI,400V,1A,M1756	04713	1N5000
A80CR212	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	D42527 (1N4152)
A80CR218	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	D42527 (1N4152)
A80CR258	152-0423-00			SEMICOND DVC,DI:RECT,SI,400V,1A,M1756	04713	1N5000
A80CR262	152-0423-00			SEMICOND DVC,DI:RECT,SI,400V,1A,M1756	04713	1N5000
A80CR312	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	D42527 (1N4152)
A80CR314	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	D42527 (1N4152)
A80CR326	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	D42527 (1N4152)
A80CR340	152-0066-00			SEMICOND DVC,DI:RECT,SI,400V,1A,DO-41	05828	GP10G-020
A80CR364	152-0423-00			SEMICOND DVC,DI:RECT,SI,400V,1A,M1756	04713	1N5000
A80CR370	152-0141-02	B100941		SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	D42527 (1N4152)
A80CR412	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	D42527 (1N4152)
A80CR414	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	D42527 (1N4152)
A80CR432	152-0066-00			SEMICOND DVC,DI:RECT,SI,400V,1A,DO-41	05828	GP10G-020
A80CR462	152-0141-02	B010100	B039999	SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	D42527 (1N4152)
A80CR462	152-0075-00	B040000	B100940	SEMICOND DVC,DI:SW,GE,22V,60MA,DO-7	14433	6866
A80CR462	152-0071-00	B100941		SEMICOND DVC,DI:SW,GE,15V,40MA,DO-7	15238	6865
A80CR532	152-0066-00			SEMICOND DVC,DI:RECT,SI,400V,1A,DO-41	05828	GP10G-020
A80CR538	152-0066-00			SEMICOND DVC,DI:RECT,SI,400V,1A,DO-41	05828	GP10G-020
A80CR564	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	D42527 (1N4152)
A80CR566	152-0141-02			SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	D42527 (1N4152)
A80CR650	152-0066-00			SEMICOND DVC,DI:RECT,SI,400V,1A,DO-41	05828	GP10G-020
A80D5244	119-0181-00	B010100	B100940	BRDG,ELEC SURGE:200,.5A,6 FELLED	25088	81-4230
A80D5248	119-0181-00			BRDG,ELEC SURGE:200,.5A,6 FELLED	25088	81-4230
A80D5358	119-0181-00	B100941		BRDG,ELEC SURGE:200,.5A,6 FELLED	25088	81-4230
A80K654	148-0121-00	B010100	B100940	RELAY,ARMATURE:2 FORM C,7A,250VDC,COIL 6VDC 40 OHM	TK0002	HC2-H-DC6V-UL
A80K654	148-0143-00	B100941		RELAY,ARMATURE:2 FORM C,10A,250VAC,COIL 6VDC 40 OHM	61529	HL2-H-DC6V
A80Q120	151-0634-00	B010100	B039999	TRANSISTOR:NPN,SI,10-12A	04713	SJE1937
A80Q120	151-0678-00	B040000		TRANSISTOR:NPN,SI,10-22A	04713	MJE13005
A80Q232	151-0634-00	B010100	B039999	TRANSISTOR:NPN,SI,10-12A	04713	SJE1937
A80Q232	151-0678-00	B040000		TRANSISTOR:NPN,SI,10-22A	04713	MJE13005
A80Q365	151-1045-00	B040000	B100940	TRANSISTOR:FET,P-CHAN,SI,TO-92	04713	SPS620

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Discont	Name & Description	Mfr. Code	Mfr. Part No.
A8Q0965	151-0150-00	B100941		TRANSISTOR:NPN,SI,TO-92	80009	151-0150-00
A8Q0974	151-0301-00			TRANSISTOR:PNP,SI,TO-18	04713	S1898
A8R056	315-0101-00			RES,FXD,FILM:100 OHM,5%,0.25W	57668	NTR25J-E 100
A8R078	315-0473-00			RES,FXD,FILM:47K OHM,5%,0.25W	57668	NTR25J-E47K0
A8R118	315-0104-00			RES,FXD,FILM:100K OHM,5%,0.25W	57668	NTR25J-E100K
A8R122	321-0431-00	B010100	B089999	RES,FXD,FILM:331K OHM,1%,0.125W,TC=T0	07716	CEA0331O2F
A8R122	321-0436-00	B090000		RES,FXD,FILM:340K OHM,1%,0.125W,TC=T0	19701	5043ED340K00F
A8R124	311-1261-00	B010100	B089999	RES,VAR,NONWW:TRMR,100K OHM,0.5W	32997	3386X-T07-104
A8R162	315-0103-00			RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10K00J
A8R172	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE0100
A8R210	321-0441-00	B010100	B089999	RES,FXD,FILM:383K OHM,1%,0.125W,TC=T0	19701	5043ED383K00F
A8R210	321-0438-00	B090000		RES,FXD,FILM:357K OHM,1%,0.125W,TC=T0	07716	CEA0357O2F
A8R210	308-0708-00			RES,FXD,WW:5.5K OHM,1%,7W	00213	16003-5500-3
A8R216	315-0394-00	B010100	B089999	RES,FXD,FILM:390K OHM,5%,0.25W	57668	NTR25J-E390K
A8R216	315-0354-00	B090000		RES,FXD,FILM:350K OHM,5%,0.25W	57668	NTR25J-E350K
A8R272	315-0473-00			RES,FXD,FILM:47K OHM,5%,0.25W	57668	NTR25J-E47K0
A8R308	315-0104-00			RES,FXD,FILM:100K OHM,5%,0.25W	57668	NTR25J-E100K
A8R310	315-0914-00			RES,FXD,FILM:910K OHM,5%,0.25W	19701	5043CX910K00J
A8R311	315-0104-00			RES,FXD,FILM:100K OHM,5%,0.25W	57668	NTR25J-E100K
A8R313	321-0340-00			RES,FXD,FILM:34.0K OHM,1%,0.125W,TC=T0	19701	5043ED34K00F
A8R314	321-0441-00	B010100	B089999	RES,FXD,FILM:383K OHM,1%,0.125W,TC=T0	19701	5043ED383K0F
A8R314	321-0438-00	B090000		RES,FXD,FILM:357K OHM,1%,0.125W,TC=T0	07716	CEA0357O2F
A8R315	315-0103-00			RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10K00J
A8R318	315-0135-00			RES,FXD,FILM:1M OHM,5%,0.25W	19701	5043CX1M00J
A8R326	315-0104-00			RES,FXD,FILM:100K OHM,5%,0.25W	57668	NTR25J-E100K
A8R328	315-0105-00			RES,FXD,FILM:1M OHM,5%,0.25W	19701	5043CX1M00J
A8R368	315-0101-00			RES,FXD,FILM:100 OHM,5%,0.25W	57668	NTR25J-E 100E
A8R370	315-0102-00	B100941		RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25J01K0
A8R372	315-0103-00			RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10K00J
A8R410	315-0104-00			RES,FXD,FILM:100K OHM,5%,0.25W	57668	NTR25J-E100K
A8R414	315-0474-00			RES,FXD,FILM:470K OHM,5%,0.25W	19701	5043CX470K00J/920
A8R416	315-0104-00			RES,FXD,FILM:100K OHM,5%,0.25W	57668	NTR25J-E100K
A8R418	315-0331-00			RES,FXD,FILM:330 OHM,5%,0.25W	57668	NTR25J-E330E
A8R422	315-0105-00			RES,FXD,FILM:1M OHM,5%,0.25W	19701	5043CX1M00J
A8R424	315-0474-00			RES,FXD,FILM:470K OHM,5%,0.25W	19701	5043CX470K00J/920
A8R426	315-0105-00			RES,FXD,FILM:1M OHM,5%,0.25W	19701	5043CX1M00J
A8R474	315-0103-00			RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10K00J
A8R478	315-0223-00			RES,FXD,FILM:22K OHM,5%,0.25W	19701	5043CX22K00J/920
A8R562	315-0101-00			RES,FXD,FILM:100 OHM,5%,0.25W	57668	NTR25J-E 100
A8R564	315-0103-00			RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10K00J
A8R566	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25J01K0
A8R576	315-0103-00			RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10K00J
A8R662	315-0682-00			RES,FXD,FILM:6.8K OHM,5%,0.25W	57668	NTR25J-E6K8
A8R01622	307-0350-00			RES,THERMAL:7.5 OHM,10%,3.5%/DEG C	80009	307-0350-00
A8R01629	307-0350-01			RES,THERMAL:7.5 OHM,10%,3.5%/DEG C	80009	307-0350-00
A8U152	120-1164-00			TRANSFORMER,DF:FAN BASE DRIVE	80009	120-1164-00
A8U0153	156-0405-03			MICROCKT,DGTL:DUAL RETRIG MONOSTABLE MV	18324	N9602(NB DP FB)
A8U0218	156-0496-00			MICROCKT,LINEAR:OPNL AMPL	01295	LM324M
A8U0254	156-0041-05	B010100	B100940	MICROCKT,DGTL:DUAL D FLIP FLOP SCRN	01295	SN7474MP3
A8U0254	156-0062-02	B100941		MICROCKT,DGTL:DUAL J-K MS-SLAVE FF,SCRN	18324	N7476(NB DP FB)
A8U0444	156-0277-00			MICROCKT,LINEAR:VOLTAGE REGULATOR	04713	LM340T-5.0
A8U0458	156-0405-03			MICROCKT,DGTL:DUAL RETRIG MONOSTABLE MV	18324	N9602(NB DP FB)
A8U0542	156-0032-02			MICROCKT,DGTL:DUAL 2-INP NAND DRVR,SCRN	01295	SN75452P3
A8U0711E	152-0614-00			SEMICOND DVC,DI:3EN,SI,10W,1%,0.4M,DO-7	04713	SID15RL
A8U0721E	152-0304-00			SEMICOND DVC,DI:3EN,SI,20V,5%,0.4M,DO-7	15238	1N4111
A82	670-5364-00	B010100	B010273	CIRCUIT BD ASSY:INVERTER	80009	670-5364-00
A82	670-5364-01	B010274	B089999	CIRCUIT BD ASSY:INVERTER	80009	670-5364-01

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A42	670-5364-02	B040000	B103881	CIRCUIT BD ASSY:INVERTER	80009	670-5364-02
A42	670-5364-03	B100882	B103540	CIRCUIT BD ASSY:INVERTER	80009	670-5364-03
A42	670-5364-04	B103541	B111067	CIRCUIT BD ASSY:INVERTER	80009	670-5364-04
A42	670-5364-05	B101068	B111114	CIRCUIT BD ASSY:INVERTER	80009	670-5364-05
A42	670-5364-06	B101115	B111459	CIRCUIT BD ASSY:INVERTER	80009	670-5364-06
A42	670-5364-07	B111455	B111813	CIRCUIT BD ASSY:INVERTER	80009	670-5364-07
A42	670-5364-08	B111814		CIRCUIT BD ASSY:INVERTER	80009	670-5364-08
A42C10	285-0622-00	B010100	B100940	CAP,FXD,PLASTIC:0.1UF,20%,100V	19396	1046B1D0S91
A42C70	290-0779-00	B010100	B100940	CAP,FXD,ELCTLT:10 UF +50% -10%,50V3C	56289	5020227
A42C80	290-0782-00	B010100	B100940	CAP,FXD,ELCTLT:4.7UF,+75-10%,35V3C	55680	ULB1V4R7T3BBA0
A42C40	290-0183-00	B010100	B100940	CAP,FXD,ELCTLT:1UF,10%,35V	05397	T322B105K035AS
A42C42	285-0627-00	B010100	B100940	CAP,FXD,PLASTIC:0.0033UF,5%,100V	07716	TEE44-332J1
A42C52	285-0627-00	B010100	B100940	CAP,FXD,PLASTIC:0.0033UF,5%,100V	07716	TEE44-332J1
A42C54	283-0594-00	B010100	B100940	CAP,FXD,MICA DI:0.001UF,1%,100V	00853	D151F102FD
A42C110	290-0813-00	B010100	B100940	CAP,FXD,ELCTLT:2000MF,+75-10%,20V	56289	3600D4E3
A42C111	290-0758-00	B100941		CAP,FXD,ELCTLT:2.2UF,+50-10%,20V	56289	5020227
A42C112	290-0770-00	B100941	B101114	CAP,FXD,ELCTLT:100UF,+50-10%,25VDC	54473	ECE-A25V100L
A42C112	290-0745-00	B101115		CAP,FXD,ELCTLT:22UF,+50-10%,25V	54473	ECE-A25V22L
A42C130	283-0208-00	B100941		CAP,FXD,CER DI:0.22UF,10%,200V	04222	SR596C224KSE
A42C140	283-0005-00	B010100	B100940	CAP,FXD,CER DI:0.01UF,+100-0%,250V	04222	SR303E103ZSD
A42C142	285-1097-00	B010100	B100940	CAP,FXD,PLASTIC:0.47UF,10%,50V	56289	230B10474E
A42C150	290-0770-00	B010100	B100940	CAP,FXD,ELCTLT:100UF,+50-10%,25VDC	54473	ECE-A25V100L
A42C152	283-0178-00	B010100	B100940	CAP,FXD,CER DI:0.1UF,+80-20%,100V	05397	C330C104J1U1CA
A42C232	283-0129-00	B010100	B100940	CAP,FXD,CER DI:0.568F,20%,100V	04222	SR501C564MDD
A42C239	283-0208-00	B010274	B100940	CAP,FXD,CER DI:100PF,5%,50V	05397	C320C101J5R5CA
A42C240	290-0770-00	B010100	B100940	CAP,FXD,ELCTLT:100UF,+50-10%,25VDC	54473	ECE-A25V100L
A42C250	290-0525-00	B100941	B101114	CAP,FXD,ELCTLT:4.7UF,20%,50V	05397	T368B475M050AS
A42C250	290-0920-00	B101115		CAP,FXD,ELCTLT:33UF,+50-10%,35V	55680	ULB1V330TE3BA0
A42C258	290-0525-00	B100941	B101114	CAP,FXD,ELCTLT:4.7UF,20%,50V	05397	T368B475M050AS
A42C258	290-0920-00	B101115		CAP,FXD,ELCTLT:33UF,+50-10%,35V	55680	ULB1V330TE3BA0
A42C310	290-0813-00	B010100	B100940	CAP,FXD,ELCTLT:2000MF,+75-10%,20V	56289	36D3D4E3
A42C320	290-0804-00	B100941		CAP,FXD,ELCTLT:10UF,+50-10%,25V	55680	ULS1E100TEB
A42C338	283-0084-00	B010100	B100940	CAP,FXD,CER DI:270PF,5%,1000V	59660	8385335F02715
A42C340	283-0084-00	B100941	B101114	CAP,FXD,CER DI:270PF,5%,1000V	59660	8385335F02715
A42C342	283-0084-00	B100941	B101114	CAP,FXD,CER DI:270PF,5%,1000V	59660	8385335F02715
A42C350	290-0525-00	B100941	B101114	CAP,FXD,ELCTLT:4.7UF,20%,50V	05397	T368B475M050AS
A42C350	290-0920-00	B101115		CAP,FXD,ELCTLT:33UF,+50-10%,35V	55680	ULB1V330TE3BA0
A42C352	283-0178-00	B010100	B100940	CAP,FXD,CER DI:0.1UF,+80-20%,100V	05397	C330C104J1U1CA
A42C354	283-0084-00	B100941	B101114	CAP,FXD,CER DI:270PF,5%,1000V	59660	8385335F02715
A42C390	290-0525-00	B100941	B101114	CAP,FXD,ELCTLT:4.7UF,20%,50V	05397	T368B475M050AS
A42C390	290-0920-00	B101115		CAP,FXD,ELCTLT:33UF,+50-10%,35V	55680	ULB1V330TE3BA0
A42C392	283-0084-00	B100941	B101114	CAP,FXD,CER DI:270PF,5%,1000V	59660	8385335F02715
A42C394	290-0531-00	B111814		CAP,FXD,ELCTLT:180UF,20%,10V	05397	T368C187M010AS
A42C410	283-0111-00	B100941		CAP,FXD,CER DI:0.1UF,20%,50V	05397	C330C104M5U1CA
A42C420	283-0178-00	B010100	B100940	CAP,FXD,CER DI:0.1UF,+80-20%,100V	05397	C330C104J1U1CA
A42C422	283-0111-00	B100941		CAP,FXD,CER DI:0.1UF,20%,50V	05397	C330C104M5U1CA
A42C426	283-0119-00	B100941		CAP,FXD,CER DI:2200PF,5%,200V	59660	855-100Y5E0222J
A42C430	283-0081-00	B101068		CAP,FXD,CER DI:0.1UF,+80-20%,25V	59821	Z5U065E104Z
A42C438	283-0084-00	B010100	B100940	CAP,FXD,CER DI:270PF,5%,1000V	59660	8385335F02715
A42C440	283-0804-00	B100941		CAP,FXD,ELCTLT:10UF,+50-10%,25V	55680	ULS1E100TEB
A42C442	283-0084-00	B010100	B100940	CAP,FXD,CER DI:270PF,5%,1000V	59660	8385335F02715
A42C444	290-0525-00	B010100	B100940	CAP,FXD,ELCTLT:4.7UF,20%,50V	05397	T368B475M050AS
A42C446	290-0773-00	B100941		CAP,FXD,ELCTLT:1000UF,+50-10%,10VDC	54473	ECE1A1041QS
A42C452	290-0525-00	B010100	B100940	CAP,FXD,ELCTLT:4.7UF,20%,50V	05397	T368B475M050AS
A42C460	283-0351-00	B100941		CAP,FXD,CER DI:5600PF,20%,3000V	51406	DHR1715E602QJ3V
A42C470	283-0238-00	B100941		CAP,FXD,CER DI:0.01UF,10%,50V	04222	SR205C103KSR
A42C472	283-0111-00	B100941		CAP,FXD,CER DI:0.1UF,20%,50V	05397	C330C104M5U1CA
A42C478	283-0238-00	B100941		CAP,FXD,CER DI:0.01UF,10%,50V	04222	SR205C103KSR
A42C500	290-0758-00	B010100	B100940	CAP,FXD,ELCTLT:2.2UF,+50-10%,20V	56289	5020227

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A82C510	290-0771-00	B100941		CAP,FXD,ELCTLT:220UF,+50-10%,10VDC	55680	ULE1022Y1P52
A82C520	283-0697-00	B100941		CAP,FXD,MICA DI:545PF,1%,300V	00853	B165F5452F0
A82C530	283-0059-00	B100941		CAP,FXD,CER DI:10F,+80-20%,50V	31433	C330C105M5R5CA
A82C532	290-0779-00	B010100	B010212	CAP,FXD,ELCTLT:10 UF +50% -10%,50VDC	56289	502D107
A82C532	290-0574-00	B010213	B010273	CAP,FXD,ELCTLT:47UF,10%,20V	05397	T368A476K020AS
A82C534	290-0770-00	B010100	B100940	CAP,FXD,ELCTLT:100UF,+50-10%,25VDC	54473	ECE-025V101L
A82C538	283-0111-00	B100941		CAP,FXD,CER DI:0.1UF,20%,50V	05397	C330C104M5U1CA
A82C540	283-0084-00	B010100	B100940	CAP,FXD,CER DI:2700PF,5%,1000V	55680	B38533E5F027J5
A82C542	283-0280-00	B010100	B100940	CAP,FXD,CER DI:2200PF,10%,2000V	56705	564C8A202EH222
A82C544	283-0111-00	B100941		CAP,FXD,CER DI:0.1UF,20%,50V	05397	C330C104M5U1CA
A82C546	283-0111-00	B100941		CAP,FXD,CER DI:0.1UF,20%,50V	05397	C330C104M5U1CA
A82C550	290-0525-00	B010100	B100940	CAP,FXD,ELCTLT:4.7UF,20%,50V	05397	T368B475M050AS
A82C608	283-0017-00	B010100	B100940	CAP,FXD,CER DI:1UF,+80-20%,3V	56680	Z5U5+80-20%3V1035Z
A82C610	283-0164-00	B010100	B100940	CAP,FXD,CER DI:2.2UF,20%,25V	04222	SR402C225MAA
A82C650	290-0525-00	B010100	B100940	CAP,FXD,ELCTLT:4.7UF,20%,50V	05397	T368B475M050AS
A82CR10	152-0066-00	B100941		SEMICOND DVC,DI:RECT,SI,400V,1A,DO-41	04009	SP100-020
A82CR11	152-0141-02	B100941		SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	D82527 (1N4152)
A82CR20	152-0066-00	B100941		SEMICOND DVC,DI:RECT,SI,400V,1A,DO-41	05828	SP100-020
A82CR21	152-0141-02	B100941		SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	D82527 (1N4152)
A82CR40	152-0141-02	B010100	B100940	SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	D82527 (1N4152)
A82CR140	152-0141-02	B010100	B100940	SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	D82527 (1N4152)
A82CR150	152-0655-00	B100941		SEMICOND DVC,DI:RECT,SI,100V,3A,A249,FAST	03508	A1150A39
A82CR160	152-0655-00	B100941		SEMICOND DVC,DI:RECT,SI,100V,3A,A249,FAST	03508	A1150A39
A82CR220	152-0141-02	B010100	B100940	SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	D82527 (1N4152)
A82CR222	152-0141-02	B010100	B100940	SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	D82527 (1N4152)
A82CR230	152-0141-02	B010100	B100940	SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	D82527 (1N4152)
A82CR232	152-0141-02	B040000	B100940	SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	D82527 (1N4152)
A82CR234	152-0141-02	B010100	B100940	SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	D82527 (1N4152)
A82CR240	152-0141-02	B010100	B100940	SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	D82527 (1N4152)
A82CR242	152-0141-02	B010100	B100940	SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	D82527 (1N4152)
A82CR250	152-0333-00	B010100	B100940	SEMICOND DVC,DI:SW,SI,55V,200MA,DO-35	07263	FDH-6012
A82CR900	152-0066-00	B010100	B100940	SEMICOND DVC,DI:RECT,SI,400V,1A,DO-41	05828	SP100-020
A82CR910	152-0066-00	B010100	B100940	SEMICOND DVC,DI:RECT,SI,400V,1A,DO-41	05828	SP100-020
A82CR920	152-0141-02	B100941		SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	D82527 (1N4152)
A82CR930	152-0141-02	B100941		SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	D82527 (1N4152)
A82CR931	152-0141-02	B100941		SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	D82527 (1N4152)
A82CR940	152-0655-00	B010100	B100940	SEMICOND DVC,DI:RECT,SI,100V,3A,A249,FAST	03508	A1150A39
A82CR942	152-0655-00	B100941		SEMICOND DVC,DI:RECT,SI,100V,3A,A249,FAST	03508	A1150A39
A82CR950	152-0333-00	B010100	B100940	SEMICOND DVC,DI:SW,SI,55V,200MA,DO-35	07263	FDH-6012
A82CR952	152-0655-00	B100941		SEMICOND DVC,DI:RECT,SI,100V,3A,A249,FAST	03508	A1150A39
A82CR970	152-0141-02	B100941		SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	D82527 (1N4152)
A82CR972	152-0141-02	B100941		SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	D82527 (1N4152)
A82CR974	152-0333-00	B100941		SEMICOND DVC,DI:SW,SI,55V,200MA,DO-35	07263	FDH-6012
A82CR975	152-0333-00	B100941		SEMICOND DVC,DI:SW,SI,55V,200MA,DO-35	07263	FDH-6012
A82CR420	152-0141-02	B010100	B100940	SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	D82527 (1N4152)
A82CR426	152-0141-02	B010100	B100940	SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	D82527 (1N4152)
A82CR470	152-0141-02	B100941		SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	D82527 (1N4152)
A82CR472	152-0141-02	B100941		SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	D82527 (1N4152)
A82CR520	152-0141-02	B100941		SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	D82527 (1N4152)
A82CR524	152-0141-02	B010100	B100940	SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	D82527 (1N4152)
A82CR526	152-0066-00	B010100	B100940	SEMICOND DVC,DI:RECT,SI,400V,1A,DO-41	05828	SP100-020
A82CR528	152-0414-00	B010100	B100940	SEMICOND DVC,DI:RECT,SI,200V,1.0A,TEX A59	04713	SR20694L
A82CR538	152-0414-00	B010100	B100940	SEMICOND DVC,DI:RECT,SI,200V,1.0A,TEX A59	04713	SR20694L
A82CR540	152-0141-02	B100941		SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	D82527 (1N4152)
A82CR550	152-0655-00	B010100	B100940	SEMICOND DVC,DI:RECT,SI,100V,3A,A249,FAST	03508	A1150A39
A82CR600	152-0141-02	B040000	B100940	SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	D82527 (1N4152)
A82CR640	152-0655-00	B010100	B100940	SEMICOND DVC,DI:RECT,SI,100V,3A,A249,FAST	03508	A1150A39
A82CR650	152-0655-00	B010100	B100940	SEMICOND DVC,DI:RECT,SI,100V,3A,A249,FAST	03508	A1150A39
A82D510	150-0035-00	B010100	B100940	LAMP,GLOW:90V MAX,0.3MA,A1D-T,WIRE LD	TE0213	JM005/3011-20

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Discont	Name & Description	Mfr. Code	Mfr. Part No.
A020L100	150-0035-00	B100941		LAMP,GLOW:50V NEO,0.3MA,BID-T,WIRE LD	TK0213	JH005/1011-03
A020L10	108-0910-00	B100941		COIL,RF:FIXED,560UH	TK1345	108-0910-00
A020L120	108-0910-00	B100941		COIL,RF:FIXED,560UH	TK1345	108-0910-00
A020L210	108-0910-01	B010100	B100940	COIL,RF:FIXED,560UH	80009	108-0910-01
A020L410	108-0910-01	B010100	B100940	COIL,RF:FIXED,560UH	80009	108-0910-01
A020Q90	151-0302-00	B010100	B100940	TRANSISTOR:NPN,SI,TO-18	04713	ST899
A020Q133	151-0302-00	B010100	B100940	TRANSISTOR:NPN,SI,TO-18	04713	ST899
A020Q140	151-0302-00	B010100	B100940	TRANSISTOR:NPN,SI,TO-18	04713	ST899
A020Q142	151-0302-00	B010100	B100940	TRANSISTOR:NPN,SI,TO-18	04713	ST899
A020Q230	151-0188-00	B010100	B100940	TRANSISTOR:PNP,SI,TO-92	80009	151-0188-00
A020Q234	151-0503-00	B010100	B100940	SCR:SI,TO-92	04713	SCR513B
A020Q235	151-0302-00	B010100	B100940	TRANSISTOR:NPN,SI,TO-18	04713	ST899
A020Q240	151-0290-00	B010100	B100940	TRANSISTOR:NPN,SI,TO-39	80009	151-0290-00
A020Q350	151-0290-00	B010100	B100940	TRANSISTOR:NPN,SI,TO-39	80009	151-0290-00
A020Q370	151-0627-00	B100941		TRANSISTOR:PNP,SI,TO-92	04713	SPS8956(MPS651A)
A020Q372	151-0627-00	B100941		TRANSISTOR:PNP,SI,TO-92	04713	SPS8956(MPS651A)
A020Q373	151-0627-00	B111465		TRANSISTOR:PNP,SI,TO-92	04713	SPS8956(MPS651A)
A020Q420	151-0302-00	B010100	B100940	TRANSISTOR:NPN,SI,TO-18	04713	ST899
A020Q422	151-0435-00	B100941		TRANSISTOR:DARLINGTON,PNP,SI,TO-92	04713	SPS8335
A020Q433	151-0301-00	B010100	B100940	TRANSISTOR:PNP,SI,TO-18	04713	ST898
A020Q528	151-0435-00	B010100	B100940	TRANSISTOR:DARLINGTON,PNP,SI,TO-92	04713	SPS8335
A020Q538	151-0188-00	B100941		TRANSISTOR:PNP,SI,TO-92	80009	151-0188-00
A020Q630	151-0302-00	B010100	B100940	TRANSISTOR:NPN,SI,TO-18	04713	ST899
A020R10	311-1248-00	B010100	B100940	RES,VAR,NONWIR:TRMR,50K OHM,0.5W	32997	3386X-107-503
A020R10	311-1248-00	B100941		RES,VAR,NONWIR:TRMR,500 OHM,0.5W	32997	3386X-107-501
A020R11	315-0474-00	B100941		RES,FXD,FILM:470K OHM,5%,0.25W	19701	5043CX470K0J520
A020R12	321-0289-00	B100941		RES,FXD,FILM:10.0K OHM,1%,0.125W,TC=T9	19701	5033RE10K00F
A020R31	315-0101-00	B010100	B100940	RES,FXD,FILM:100 OHM,5%,0.25W	57668	NTR25J-E 100E
A020R32	315-0103-00	B010100	B100940	RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10K0J
A020R34	315-0221-00	B010100	B100940	RES,FXD,FILM:220 OHM,5%,0.25W	57668	NTR25J-E220E
A020R35	315-0621-00	B010100	B100940	RES,FXD,FILM:620 OHM,5%,0.25W	57668	NTR25J-E620E
A020R38	315-0331-00	B010100	B100940	RES,FXD,FILM:330 OHM,5%,0.25W	57668	NTR25J-E330E
A020R40	315-0363-00	B010100	B100940	RES,FXD,FILM:36K OHM,5%,0.25W	57668	NTR25J-E36K0
A020R42	321-0318-00	B010100	B100940	RES,FXD,FILM:20.0K OHM,1%,0.125W,TC=T0	19701	5033EE20K00F
A020R44	321-0302-00	B010100	B100940	RES,FXD,FILM:13.7K OHM,1%,0.125W,TC=T0	07716	CEAD 13701F
A020R52	311-1245-00	B010100	B100940	RES,VAR,NONWIR:TRMR,10K OHM,0.5W	32997	3386X-T08-103
A020R54	321-0251-00	B010100	B100940	RES,FXD,FILM:5.11K OHM,1%,0.125W,TC=T0	19701	5033E05K11F
A020R110	315-0106-00	B010100	B100940	RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX10R0J
A020R111	321-0671-00	B100941		RES,FXD,FILM:8.51K OHM,0.5%,0.125W,TC=T2	24546	MC55C8511J
A020R120	315-0103-00	B010100	B100940	RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10K0J
A020R126	315-0475-00	B100941		RES,FXD,FILM:4.7M OHM,5%,0.25W	01121	CB4755
A020R130	321-0259-00	B010100	B100940	RES,FXD,FILM:4.87K OHM,1%,0.125W,TC=T0	07716	CEAD4870QF
A020R131	321-0195-00	B010100	B100940	RES,FXD,FILM:825 OHM,1%,0.125W,TC=T0	07716	CEAD82500F
A020R132	315-0681-00	B010100	B100940	RES,FXD,FILM:680 OHM,5%,0.25W	57668	NTR25J-E680E
A020R133	321-0259-00	B010100	B100940	RES,FXD,FILM:4.87K OHM,1%,0.125W,TC=T0	07716	CEAD4870QF
A020R134	315-0102-00	B010100	B100940	RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25J-E01K0
A020R135	315-0681-00	B010100	B100940	RES,FXD,FILM:680 OHM,5%,0.25W	57668	NTR25J-E680E
A020R136	315-0122-00	B010100	B100940	RES,FXD,FILM:1.2K OHM,5%,0.25W	57668	NTR25J-E01K2
A020R137	315-0331-00	B010100	B100940	RES,FXD,FILM:330 OHM,5%,0.25W	57668	NTR25J-E330E
A020R138	315-0162-00	B010100	B100940	RES,FXD,FILM:1.6K OHM,5%,0.25W	57668	NTR25J-E16R
A020R139	315-0122-00	B010100	B100940	RES,FXD,FILM:1.2K OHM,5%,0.25W	57668	NTR25J-E01K2
A020R140	315-0272-00	B010100	B100940	RES,FXD,FILM:2.7K OHM,5%,0.25W	57668	NTR25J-E02K7
A020R146	315-0103-00	B010100	B100940	RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10K0J
A020R148	315-0103-00	B010100	B100940	RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10K0J
A020R150	315-0152-00	B010100	B100940	RES,FXD,FILM:1.5K OHM,5%,0.25W	57668	NTR25J-E01K5
A020R151	308-0240-00	B100941		RES,FXD,WW:2 OHM,5%,3W	05347	WS3-2R00J
A020R152	321-0254-00	B010100	B100940	RES,FXD,FILM:11.3K OHM,1%,0.125W,TC=T0	19701	5043ED11K30F
A020R153	308-0240-00	B100941		RES,FXD,WW:2 OHM,5%,3W	05347	WS3-2R00J
A020R154	315-0102-00	B010100	B100940	RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25J-E01K0

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Discont	Name & Description	Mfr. Code	Mfr. Part No.
A829220	321-0390-00	B010100	B100540	RES,FXD,FILM:39 OHM,5%,0.5W	01121	EB3905
A829224	315-0104-00	B010100	B100540	RES,FXD,FILM:100K OHM,5%,0.25W	57668	NTR25J-E100K
A829230	315-0471-00	B100541		RES,FXD,FILM:470 OHM,5%,0.25W	57668	NTR25J-E470E
A829232	315-0103-00	B010100	B100540	RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10430J
A829235	315-0562-00	B010100	B100540	RES,FXD,FILM:5.6K OHM,5%,0.25W	57668	NTR25J-E5K6
A829236	315-0103-00	B010100	B100540	RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10F30J
A829238	315-0102-00	B010100	B100540	RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
A829240	315-0113-00	B010278	B100540	RES,FXD,FILM:11K OHM,5%,0.25W	19701	5043CX11E00J
A829241	301-0102-00	B100541	B101114	RES,FXD,FILM:1K OHM,5%,0.50W	19701	5053CX1C00J
A829242	315-0103-00	B010100	B100540	RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10E00J
A829244	308-0545-00	B010100	B100540	RES,FXD,MM:100 OHM,0.5%,5W,TC=93PPM	00213	125050-100-0.5
A829246	305-0124-00	B100541		RES,FXD,CMPSN:120E OHM,5%,2W	01121	HB1205
A829248	301-0271-00	B010100	B100540	RES,FXD,FILM:270 OHM,5%,0.5W	19701	5053CX27E00J
A829250	301-0271-00	B010100	B100540	RES,FXD,FILM:270 OHM,5%,0.5W	19701	5053CX27E00J
A829252	315-0102-00	B010100	B100540	RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
A829254	301-0102-00	B100541	B101114	RES,FXD,FILM:1K OHM,5%,0.50W	19701	5053CX1E00J
A829270	301-0470-00	B100541		RES,FXD,FILM:47 OHM,5%,0.5W	19701	5053CX47R00J
A829510	305-0124-00	B010100	B100540	RES,FXD,CMPSN:120E OHM,5%,2W	01121	HB1205
A829512	321-1289-03	B100541		RES,FXD,FILM:8.75K OHM,0.25%,0.125W,TC=T2	24546	MC55C8751C
A829514	321-0816-00	B100541		RES,FXD,FILM:5K OHM,1%,0.125W,TC=T0	24546	MC55C5001F
A829516	321-0284-00	B100541		RES,FXD,FILM:8.87E OHM,1%,0.125W,TC=T0	19701	5043EB8E87F
A829518	315-0222-00	B100541		RES,FXD,FILM:2.2K OHM,5%,0.25W	57668	NTR25J-E02K2
A829520	315-0222-00	B100541		RES,FXD,FILM:2.2K OHM,5%,0.25W	57668	NTR25J-E02K2
A829522	315-0391-00	B100541		RES,FXD,FILM:390 OHM,5%,0.25W	57668	NTR25J-E390E
A829530	305-0431-00	B010100	B100540	RES,FXD,CMPSN:430 OHM,5%,2W	01121	HB4315
A829538	301-0102-00	B010113	B100540	RES,FXD,FILM:1K OHM,5%,0.50W	19701	5053CX1E00J
A829540	308-0240-00	B100541		RES,FXD,MM:2 OHM,5%,3W	05347	W53-2R00J
A829542	301-0102-00	B100541	B101114	RES,FXD,FILM:1K OHM,5%,0.50W	19701	5053CX1E00J
A829550	301-0102-00	B100541	B101114	RES,FXD,FILM:1K OHM,5%,0.50W	19701	5053CX1E00J
A829560	308-0240-00	B100541		RES,FXD,MM:2 OHM,5%,3W	05347	W53-2R00J
A829570	315-0100-00	B100541		RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX10R00J
A829572	315-0100-00	B100541		RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX10R00J
A829573	315-0102-00	B111465		RES,FXD,FILM:1E OHM,5%,0.25W	57668	NTR25JE01K0
A829600	321-0753-06	B010100	B100540	RES,FXD,FILM:5E OHM,0.25%,0.125W,TC=T2	07716	CEAC50000C
A829610	321-0816-00	B100541		RES,FXD,FILM:5E OHM,1%,0.125W,TC=T0	24546	MC55C5001F
A829612	321-0254-00	B100541		RES,FXD,FILM:5.49K OHM,1%,0.125W,TC=T0	07716	CEAC5491C
A829618	321-0248-00	B100541		RES,FXD,FILM:3.74K OHM,1%,0.125W,TC=T0	19701	5043EB3K74F
A829619	315-0222-00	B100541		RES,FXD,FILM:2.2K OHM,5%,0.25W	57668	NTR25J-E02K2
A829620	315-0472-00	B010100	B100540	RES,FXD,FILM:4.7K OHM,5%,0.25W	57668	NTR25J-E04K7
A829621	315-0100-00	B100541		RES,FXD,FILM:10 OHM,5%,0.25W	19701	5043CX10R00J
A829622	315-0103-00	B100541		RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10M00J
A829623	315-0222-00	B100541		RES,FXD,FILM:2.2K OHM,5%,0.25W	57668	NTR25J-E02K2
A829624	315-0103-00	B100541		RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10M00J
A829625	315-0222-00	B100541		RES,FXD,FILM:2.2K OHM,5%,0.25W	57668	NTR25J-E02K2
A829626	315-0472-00	B010100	B100540	RES,FXD,FILM:4.7K OHM,5%,0.25W	57668	NTR25J-E04K7
A829628	315-0104-00	B100541		RES,FXD,FILM:100K OHM,5%,0.25W	57668	NTR25J-E100K
A829630	308-0245-00	B010100	B100881	RES,FXD,MM:0.5 OHM,5%,2W	00213	3105 .5-5
A829630	308-0435-00	B100882	B100540	RES,FXD,MM:0.5 OHM,10%,2.5W,EXIOL	14153	5031 R500K
A829632	315-0102-00	B100541		RES,FXD,FILM:1E OHM,5%,0.25W	57668	NTR25JE01K0
A829634	315-0104-00	B100541		RES,FXD,FILM:100E OHM,5%,0.25W	57668	NTR25J-E100E
A829636	321-0385-00	B100541		RES,FXD,FILM:100E OHM,1%,0.125W,TC=T0	19701	5033CX100R0F
A829638	301-0102-00	B010113	B100540	RES,FXD,FILM:1E OHM,5%,0.50W	19701	5053CX1R00J
A829640	315-0123-00	B100541		RES,FXD,FILM:12K OHM,5%,0.25W	57668	NTR25J-E12K0
A829642	301-0102-00	B010113	B100540	RES,FXD,FILM:1E OHM,5%,0.50W	19701	5053CX1R00J
A829500	321-0289-03	B010100	B100540	RES,FXD,FILM:10.0K OHM,0.25%,0.125W,TC=T2	07716	CEAC10001C
A829508	315-0103-00	B010100	B100540	RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10M00J
A829510	321-0248-00	B010100	B100540	RES,FXD,FILM:3.74K OHM,1%,0.125W,TC=T0	19701	5043EB3K74F
A829511	311-1238-00	B100541		RES,VAR,NONWW:100K,5% OHM,0.5W	32997	3386X-T06-504
A829512	315-0472-00	B010100	B100540	RES,FXD,FILM:4.7K OHM,5%,0.25W	57668	NTR25J-E04K7

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Dscont	Name & Description	Mfr. Code	Mfr. Part No.
A829516	315-0103-00	B010100	B100940	RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10K00J
A829519	315-0103-00	B010100	B100940	RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10K00J
A829520	315-0103-00	B010100	B100940	RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10K00J
A829522	315-0222-00	B100941		RES,FXD,FILM:2.2K OHM,5%,0.25W	57668	NTR25J-E02K2
A829524	315-0391-00	B100941		RES,FXD,FILM:390 OHM,5%,0.25W	57668	NTR25J-E390E
A829525	315-0102-00	B100941		RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
A829526	315-0102-00	B010100	B100940	RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
A829527	315-0222-00	B100941		RES,FXD,FILM:2.2K OHM,5%,0.25W	57668	NTR25J-E02K2
A829528	321-0289-00	B100941		RES,FXD,FILM:10.3K OHM,1%,0.125W,TC=T0	19701	5033IE10K00F
A829529	321-0354-00	B100941		RES,FXD,FILM:47.5K OHM,1%,0.125W,TC=T0	19701	5043IE47K50F
A829533	315-0512-00	B100941		RES,FXD,FILM:5.1K OHM,5%,0.25W	57668	NTR25J-E05K1
A829512	315-0222-00	B100941		RES,FXD,FILM:2.2K OHM,5%,0.25W	57668	NTR25J-E02K2
A829538	301-0102-00	B010113	B100940	RES,FXD,FILM:1K OHM,5%,0.50W	19701	5053CX1K000J
A829540	308-0240-00	B010100	B100940	RES,FXD,WW:2 OHM,5%,3W	05347	W53-2R00J
A829542	315-0151-00	B100941		RES,FXD,FILM:150 OHM,5%,0.25W	57668	NTR25J-E150E
A829544	315-0822-00	B100941		RES,FXD,FILM:8.2K OHM,5%,0.25W	19701	5043CX8K200J
A829546	315-0101-00	B100941		RES,FXD,FILM:100 OHM,5%,0.25W	57668	NTR25J-E 100E
A829550	308-0240-00	B010100	B100940	RES,FXD,WW:2 OHM,5%,3W	05347	W53-2R00J
A829552	315-0222-00	B100941		RES,FXD,FILM:2.2K OHM,5%,0.25W	57668	NTR25J-E02K2
A829554	315-0222-00	B100941		RES,FXD,FILM:2.2K OHM,5%,0.25W	57668	NTR25J-E02K2
A829560	315-0222-00	B100941		RES,FXD,FILM:2.2K OHM,5%,0.25W	57668	NTR25J-E02K2
A829562	301-0910-00	B100941		RES,FXD,FILM:91 OHM,5%,0.5W	19701	5053CX91R00J
A829600	315-0102-00	B010100	B100940	RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
A829606	315-0103-00	B010100	B100940	RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10K00J
A829610	321-0248-00	B010100	B100940	RES,FXD,FILM:3.74K OHM,1%,0.125W,TC=T0	19701	5043ED3K740F
A829612	315-0102-00	B010100	B100940	RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
A829614	315-0472-00	B010100	B100940	RES,FXD,FILM:4.7K OHM,5%,0.25W	57668	NTR25J-E04K7
A829616	321-1293-02	B010100	B100940	RES,FXD,FILM:11.1K OHM,0.5%,0.125W,TC=T2	91637	MFF1816G11110D
A829618	315-0472-00	B010100	B100940	RES,FXD,FILM:4.7K OHM,5%,0.25W	57668	NTR25J-E04K7
A829640	308-0240-00	B010100	B100940	RES,FXD,WW:2 OHM,5%,3W	05347	W53-2R00J
A829650	308-0240-00	B010100	B100940	RES,FXD,WW:2 OHM,5%,3W	05347	W53-2R00J
A821250	120-0747-00	B100941		XFMR,TOROID:	TK1345	120-0747-00
A821340	120-1162-01	B010100	B100940	TRANSFORMER,RF:BASE DRIVE	80009	120-1152-01
A821350	120-1162-02	B100941		TRANSFORMER,RF:BASE DRIVE	80009	120-1152-02
A821630	120-1163-00	B010100	B100940	TRANSFORMER,RF:CURRENT	80009	120-1153-00
A82U40	156-0405-03	B010100	B100940	MICROCKT,DGTL:DUAL RETRIG MONOSTABLE MV	18324	M9602(NB OR FB)
A82U130	156-0853-00	B010100	B100940	MICROCKT,LINEAR:OPNL AMPL,DUAL	04713	LM358N
A82U150	156-0405-03	B010100	B100940	MICROCKT,DGTL:DUAL RETRIG MONOSTABLE MV	18324	M9602(NB OR FB)
A82U250	156-0038-02	B010100	B100940	MICROCKT,DGTL:J-K MSTER SLAVE FF,SCRN	01295	SN7472NP3
A82U350	156-0341-02	B010100	B100940	MICROCKT,DGTL:DUAL 2-INP DRIVER,SCREENED	01295	SN75453PP3
A82U410	156-0411-02	B100941		MICROCKT,LINEAR:QUAD COMPARATOR,SCREENED	04713	LM339J/DS
A82U433	156-0092-00	B100941		MICROCKT,DGTL:HEX INV W/OPEN COLLECTOR	01295	SN7405N
A82U530	156-0411-02	B100941		MICROCKT,LINEAR:QUAD COMPARATOR,SCREENED	04713	LM339J/DS
A82U550	156-1173-00	B100941		MICROCKT,LINEAR:VOLTAGE REFERENCE	04713	MC1403U/DS
A82U560	156-0038-03	B100941		MICROCKT,DGTL:QUAD 2 INPUT NAND GATE,SCRN	18324	M7400(NB OR FB)
A82U570	156-0042-02	B100941		MICROCKT,DGTL:DUAL J-K MA-SLAVE FF,SCRN	18324	M7476(NB OR FB)
A82U572	156-0319-02	B100941		MICROCKT,DGTL:DUAL 2-INP NOR DRVR	01295	SN75454PP3
A82U610	156-0411-01	B010100	B100924	MICROCKT,LINEAR:SGL SPLY COMPARATOR,CMX	04713	LM339N/DS
A82U610	156-0411-02	B100925	B100940	MICROCKT,LINEAR:QUAD COMPARATOR,SCREENED	04713	LM339J/DS
A82W430	152-0175-00	B100541		SEMICOND DVC,DI:CER,SI,5.6V,5%,0.4W,DO-7	14552	TD3810N/6
A82W520	152-0317-00	B010100	B100940	SEMICOND DVC,DI:CER,SI,6.2V,5%,0.25W,DO-7	04713	SZG20012
A82W620	152-0089-00	B010100	B100940	SEMICOND DVC,DI:CER,SI,12.6V,5%,10W,DO-4	04713	SZ11501
A82W001	175-5904-00	B111814		WIRE,ELECTRICAL:STRD,18 AWG,300V RMS,GRAY, DOUBLE INSULATED	80009	175-5904-00
A82X222	131-0566-00	B010100	B100940	BUS,CNDCT:DUMMY RES,0.094 OD X 0.225 L	24546	CAE 07
A82X506	131-0566-00	B010100	B100940	BUS,CNDCT:DUMMY RES,0.094 OD X 0.225 L	24546	CAE 07
A82X518	131-0566-00	B010100	B100940	BUS,CNDCT:DUMMY RES,0.094 OD X 0.225 L	24546	CAE 07

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Dscont	Name & Description	Mfr. Code	Mfr. Part No.
A84	670-4960-00	B010100	B089999	CIRCUIT BD ASSY:SOCKET	80009	670-4960-00
A84	670-4960-01	B090000		CIRCUIT BD ASSY:SOCKET	80009	670-4960-01
A84C426	285-1164-00			CAP,FXD,PLASTIC:SUF,10%,400V	56658	MP1-2859K
A84CR224	152-0400-00			SEMICOND DVC,DI:RECT,SI,400V,1A	04713	SR1577K
A84CR232	152-0400-00			SEMICOND DVC,DI:RECT,SI,400V,1A	04713	SR1577K
A84CR322	152-0400-00			SEMICOND DVC,DI:RECT,SI,400V,1A	04713	SR1577K
A84CR334	152-0400-00			SEMICOND DVC,DI:RECT,SI,400V,1A	04713	SR1577K
A84F14	159-0013-00			FUSE,CARTRIDGE:3AG,6A,250V,MEDIUM BLOW	71400	MTH-CH-6
A84Q110	151-0388-00	B010100	B121067	TRANSISTOR:NPN,SI,TO-3	04713	SJ2754
A84Q110	151-0388-01	B101068	B111937	TRANSISTOR:SELECTED	80009	151-0388-01
A84Q110	151-0388-00	B111938		TRANSISTOR:NPN,SI,TO-3	04713	SJ2754
A84Q132	151-0388-00	B010100	B101067	TRANSISTOR:NPN,SI,TO-3	04713	SJ2754
A84Q132	151-0388-01	B101068	B111937	TRANSISTOR:SELECTED	80009	151-0388-01
A84Q132	151-0388-00	B111938		TRANSISTOR:NPN,SI,TO-3	04713	SJ2754
A84Q318	151-0388-00	B010100	B101067	TRANSISTOR:NPN,SI,TO-3	04713	SJ2754
A84Q318	151-0388-01	B101068	B111937	TRANSISTOR:SELECTED	80009	151-0388-01
A84Q318	151-0388-00	B111938		TRANSISTOR:NPN,SI,TO-3	04713	SJ2754
A84Q332	151-0388-00	B010100	B101067	TRANSISTOR:NPN,SI,TO-3	04713	SJ2754
A84Q332	151-0388-01	B101068	B111937	TRANSISTOR:SELECTED	80009	151-0388-01
A84Q332	151-0388-00	B111938		TRANSISTOR:NPN,SI,TO-3	04713	SJ2754
A86	670-5158-00	B010100	B079599	CIRCUIT BD ASSY:RECTIFIER FILTER	80009	670-5158-00
A86	670-5158-02	B080000	B089599	CIRCUIT BD ASSY:RECTIFIER FILTER	80009	670-5158-02
A86	670-5158-03	B090000	B100579	CIRCUIT BD ASSY:RECTIFIER FILTER	80009	670-5158-03
A86	670-5158-04	B100580		CIRCUIT BD ASSY:RECTIFIER FILTER	80009	670-5158-04
A86C112	290-0771-00			CAP,FXD,ELCTLT:220UF,+50-10%,10VDC	55680	ULA1A221MPA2
A86C114	290-0773-00			CAP,FXD,ELCTLT:1000UF,+50-10%,10VDC	54473	ECE1AV102S
A86C116	290-0773-00			CAP,FXD,ELCTLT:1000UF,+50-10%,10VDC	54473	ECE1AV102S
A86C117	283-0178-00			CAP,FXD,CER DI:0.01UF,+80-20%,100V	05397	C330C104Z1U1CA
A86C118	283-0178-00			CAP,FXD,CER DI:0.01UF,+80-20%,100V	05397	C330C104Z1U1CA
A86C204	290-0770-00			CAP,FXD,ELCTLT:100UF,+50-10%,25VDC	54473	ECE-A25V100L
A86C214	290-0773-00			CAP,FXD,ELCTLT:1000UF,+50-10%,10VDC	54473	ECE1AV102S
A86C234	283-0184-00			CAP,FXD,CER DI:4.7UF,20%,50V	04222	SR505E475MAA
A86C238	290-0768-00			CAP,FXD,ELCTLT:10UF,+50-10%,100VDC	54473	ECE-A100V10L
A86C304	290-0767-00			CAP,FXD,ELCTLT:1UF,+50-10%,450V	56289	34210SP452EE6
A86C314	290-0768-00			CAP,FXD,ELCTLT:2.2UF,+50-10%,200V	56289	502D227
A86C324	290-0773-00			CAP,FXD,ELCTLT:1000UF,+50-10%,10VDC	54473	ECE1AV102S
A86C326	290-0773-00			CAP,FXD,ELCTLT:1000UF,+50-10%,10VDC	54473	ECE1AV102S
A86C328	283-0184-00			CAP,FXD,CER DI:4.7UF,20%,50V	04222	SR505E475MAA
A86C334	290-0768-00			CAP,FXD,ELCTLT:10UF,+50-10%,100VDC	54473	ECE-A100V10L
A86C336	290-0770-00			CAP,FXD,ELCTLT:100UF,+50-10%,25VDC	54473	ECE-A25V100L
A86C338	290-0770-00			CAP,FXD,ELCTLT:100UF,+50-10%,25VDC	54473	ECE-A25V100L
A86CR1	152-0385-00	B010100	B100979	SEMICOND DVC,DI:RECT,SI,2000V,0.1A,	14099	KBO
A86CR1	152-0752-00	B100979		SEMICOND DVC,DI:RECT,SI,1A,1500V,859,MED RE C	TK1016	1N5416A
A86CR2	152-0385-00	B010100	B100979	SEMICOND DVC,DI:RECT,SI,2000V,0.1A,	14099	KBO
A86CR2	152-0752-00	B100979		SEMICOND DVC,DI:RECT,SI,1A,1500V,859,MED RE C	TK1016	1N5416A
A86CR3	152-0385-00	B010100	B100979	SEMICOND DVC,DI:RECT,SI,2000V,0.1A,	14099	KBO
A86CR3	152-0752-00	B100979		SEMICOND DVC,DI:RECT,SI,1A,1500V,859,MED RE C	TK1016	1N5416A
A86CR4	152-0585-00			SEMICOND DVC,DI:RECT,SI,600V,0.5A	25403	BYV96D OR BYV95C
A86CR5	152-0585-00			SEMICOND DVC,DI:RECT,SI,600V,0.5A	25403	BYV96D OR BYV95C
A86CR6	152-0585-00			SEMICOND DVC,DI:RECT,SI,600V,0.5A	25403	BYV96D OR BYV95C
A86CR7	152-0585-00			SEMICOND DVC,DI:RECT,SI,600V,0.5A	25403	BYV96D OR BYV95C
A86CR8	152-0385-00	B010100	B100979	SEMICOND DVC,DI:RECT,SI,2000V,0.1A,	14099	KBO
A86CR8	152-0752-00	B100979		SEMICOND DVC,DI:RECT,SI,1A,1500V,859,MED RE C	TK1016	1N5416A

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Dscont	Name & Description	Mfr. Code	Mfr. Part No.
D85CR14	152-0655-00			SEMICOND DVC,DI:RECT,SI,100V,3A,0249,FAST	03508	A1156A39
D85CR15	152-0400-00	B010100	B079999	SEMICOND DVC,DI:RECT,SI,400V,1A	04713	SR1377K
D85CR15	152-0661-00	B080000		SEMICOND DVC,DI:RECT,SI,600V,3A,FAST RCVY	04713	SR3523
D85CR16	152-0400-00	B010100	B079999	SEMICOND DVC,DI:RECT,SI,400V,1A	04713	SR1377K
D85CR16	152-0661-00	B080000		SEMICOND DVC,DI:RECT,SI,600V,3A,FAST RCVY	04713	SR3523
D85CR17	152-0400-00	B010100	B079999	SEMICOND DVC,DI:RECT,SI,400V,1A	04713	SR1377K
D85CR17	152-0661-00	B080000		SEMICOND DVC,DI:RECT,SI,600V,3A,FAST RCVY	04713	SR3523
D85CR18	152-0400-00	B010100	B079999	SEMICOND DVC,DI:RECT,SI,400V,1A	04713	SR1377K
D85CR18	152-0661-00	B080000		SEMICOND DVC,DI:RECT,SI,600V,3A,FAST RCVY	04713	SR3523
D85CR19	152-0655-00			SEMICOND DVC,DI:RECT,SI,100V,3A,0249,FAST	03508	A1156A39
D85CR24	152-0655-00			SEMICOND DVC,DI:RECT,SI,100V,3A,0249,FAST	03508	A1156A39
D85CR26	152-0655-00			SEMICOND DVC,DI:RECT,SI,100V,3A,0249,FAST	03508	A1156A39
D85CR114	152-0655-00			SEMICOND DVC,DI:RECT,SI,100V,3A,0249,FAST	03508	A1156A39
D85CR123	152-0655-00			SEMICOND DVC,DI:RECT,SI,100V,3A,0249,FAST	03508	A1156A39
D85CR124	152-0640-00			SEMICOND DVC,DI:RECT,SI,35V,30A,00-4	01281	SD-4101
D85CR224	152-0640-00			SEMICOND DVC,DI:RECT,SI,35V,30A,00-4	01281	SD-4101
D85CR225	152-0655-00			SEMICOND DVC,DI:RECT,SI,100V,3A,0249,FAST	03508	A1156A39
D85CR226	152-0655-00			SEMICOND DVC,DI:RECT,SI,100V,3A,0249,FAST	03508	A1156A39
D85CR227	152-0686-00			SEMICOND DVC,DI:RECT,SI,100V,5A,0264	04713	SR3273
D85CR228	152-0686-00			SEMICOND DVC,DI:RECT,SI,100V,5A,0264	04713	SR3273
D85CR314	152-0655-00			SEMICOND DVC,DI:RECT,SI,100V,3A,0249,FAST	03508	A1156A39
D85CR316	152-0655-00			SEMICOND DVC,DI:RECT,SI,100V,3A,0249,FAST	03508	A1156A39
D85L6	108-0900-00			COIL,RF:FXD,300NH	80009	108-0900-00
D85L8	108-0553-00			COIL,RF:FIXED,47NH	32159	547D03M
D85L24	108-0909-00			COIL,RF:FIXED,1.5NH	TK1345	108-0909-00
D85L26	108-0909-00			COIL,RF:FIXED,1.5NH	TK1345	108-0909-00
D85L34	108-0910-00			COIL,RF:FIXED,560NH	TK1345	108-0910-00
D85L114	108-0859-00			COIL,RF:FIXED,8.3UH	TK1345	108-0859-00
D85L116	108-0911-00			COIL,RF:FIXED,65UH	80009	108-0911-00
D85L124	108-0910-00			COIL,RF:FIXED,560NH	TK1345	108-0910-00
D85L204	108-0909-00			COIL,RF:FIXED,1.5NH	TK1345	108-0909-00
D85L214	108-0911-00			COIL,RF:FIXED,65UH	80009	108-0911-00
D85L224	108-0910-00			COIL,RF:FIXED,560UH	TK1345	108-0910-00
D85L234	108-0910-00			COIL,RF:FIXED,560UH	TK1345	108-0910-00
D85R124	306-0100-00			RES,FXD,CMPSN:10 OHM,10%,2W	01121	HB1001
D85R126	306-0100-00			RES,FXD,CMPSN:10 OHM,10%,2W	01121	HB1001
D85R240	315-0103-00			RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043C10K00J
D85S402	260-1758-00			SWITCH,THERMSTC:NC,83.3 OPEN,56.7,103,240V	14604	2NSD-BB-298
D85T14	120-1160-00			XFMR,PWR,SOMSVJ:	80009	120-1160-00
D88	670-5418-00	B010100	B039999	CIRCUIT BD ASSY:REGULATOR	80009	670-5418-00
D88	670-5418-01	B040000	B079999	CIRCUIT BD ASSY:REGULATOR	80009	670-5418-01
D88	670-5418-02	B080000	B089999	CIRCUIT BD ASSY:REGULATOR	80009	670-5418-02
D88	670-5418-04	B090000		CIRCUIT BD ASSY:REGULATOR	80009	670-5418-04
D89C2	290-0770-00			CAP,FXD,ELCTLT:100UF,+50-10%,25VDC	54473	ECE-A25V101L
D89C8	283-0067-00	B010100	B039999	CAP,FXD,CER DI:0.001UF,10%,200V	59660	835-515-Y5ED102K
D89C10	283-0047-00	B040000		CAP,FXD,CER DI:270PF,5%,500V	59660	0831604Q5F271-J
D89C12	283-0129-00			CAP,FXD,CER DI:0.56UF,20%,100V	04222	SR501C564MAA
D89C14	290-0762-02			CAP,FXD,ELCTLT:4.7UF,+75-10%,35VDC	55680	ULE1VR47T3EAG
D89C32	283-0129-00			CAP,FXD,CER DI:0.56UF,20%,100V	04222	SR501C564MAA
D89C38	283-0067-00			CAP,FXD,CER DI:0.001UF,10%,200V	59660	835-515-Y5ED102K
D89C46	283-0100-00			CAP,FXD,CER DI:0.0047UF,10%,200V	04222	SR305A472KAA
D89C122	283-0178-00			CAP,FXD,CER DI:0.1UF,+80-20%,100V	05397	C330C104Z1U1CA
D89C124	283-0067-00			CAP,FXD,CER DI:0.001UF,10%,200V	59660	835-515-Y5ED102K
D89C128	290-0768-00			CAP,FXD,ELCTLT:10UF,+50-10%,100VDC	54473	ECE-E1007A10L
D89C136	283-0129-00			CAP,FXD,CER DI:0.56UF,20%,100V	04222	SR501C564MAA
D89C138	283-0067-00			CAP,FXD,CER DI:0.001UF,10%,200V	59660	835-515-Y5ED102K
D89C148	283-0067-00			CAP,FXD,CER DI:0.001UF,10%,200V	59660	835-515-Y5ED102K

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Discont	Name & Description	Mfr. Code	Mfr. Part No.
A88C150	290-0770-00			CAP,FXD,ELCTLT:100UF,+50-10%,25VDC	54473	ECE-A25V101L
A88C202	283-0178-00			CAP,FXD,CER DI:0.1UF,+80-20%,100V	05397	C330C104Z1U1CA
A88C206	283-0067-00			CAP,FXD,CER DI:0.001UF,10%,200V	59660	835-515-Y5ED102K
A88C215	283-0067-00			CAP,FXD,CER DI:0.001UF,10%,200V	59660	835-515-Y5ED102K
A88C244	283-0119-00			CAP,FXD,CER DI:2200PF,5%,200V	59660	855-X0Y5ED222J
A88C302	290-0768-00			CAP,FXD,ELCTLT:100F,+50-10%,100VDC	54473	ECE-A100V10L
A88C310	283-0178-00			CAP,FXD,CER DI:0.1UF,+80-20%,100V	05397	C330C104Z1U1C3
A88C333	283-0067-00			CAP,FXD,CER DI:0.001UF,10%,200V	59660	835-515-Y5ED102K
A88C348	283-0067-00	B010100	B099999	CAP,FXD,CER DI:0.001UF,10%,200V	59660	835-515-Y5ED102K
A88C349	283-0078-00	B030200		CAP,FXD,CER DI:0.001UF,20%,500V	59660	0861 DA705F0102M
A88C352	283-0178-00			CAP,FXD,CER DI:0.1UF,+80-20%,100V	05397	C330C104Z1U1C3
A88C401	283-0328-00			CAP,FXD,CER DI:0.68UF,+80-20%,25DV	05397	C330C683Z2U5C3
A88C448	283-0013-00			CAP,FXD,CER DI:0.01UF,-0+100%,1000V	56660	818-G022S1U1012F
A88C537	283-0178-00			CAP,FXD,CER DI:0.1UF,+80-20%,100V	05397	C330C104Z1U1C3
A88C539	283-0067-00			CAP,FXD,CER DI:0.001UF,10%,200V	59660	835-515-Y5ED102K
A88C544	283-0008-00			CAP,FXD,CER DI:0.1UF,20%,50DV	51642	500-503-X7R-104M
A88C602	290-0745-00			CAP,FXD,ELCTLT:22UF,+50-10%,25V	54473	ECE-A25Z22L
A88C608	283-0002-00			CAP,FXD,CER DI:0.01UF,+80-20%,500V	56621	D103(40150)A3ES
A88CE08	283-0032-00			CAP,FXD,CER DI:470PF,5%,500V	59660	831-030-1S00471J
A88CE30	283-0067-00			CAP,FXD,CER DI:0.001UF,10%,200V	59660	835-515-Y5ED102K
A88CF20	283-0032-00			CAP,FXD,CER DI:470PF,5%,500V	59660	831-030-1S00471J
A88CR12	152-0366-00			SEMICOND DVC,DI:RECT,SI,400V,1A,DO-41	05829	GP10G-020
A88CR30	152-0366-00			SEMICOND DVC,DI:RECT,SI,400V,1A,DO-41	05829	GP10G-020
A88CR46	152-0366-00			SEMICOND DVC,DI:RECT,SI,400V,1A,DO-41	05829	GP10G-020
A88CR102	152-0366-00			SEMICOND DVC,DI:RECT,SI,400V,1A,DO-41	05829	GP10G-020
A88CR104	152-0141-02			SEMICOND DVC,DI:SM,SI,30V,150MA,30W,DO-35	03508	DA2527 (1N4152)
A88CR122	152-0141-02			SEMICOND DVC,DI:SM,SI,30V,150MA,30W,DO-35	03508	DA2527 (1N4152)
A88CR136	152-0141-02			SEMICOND DVC,DI:SM,SI,30V,150MA,30W,DO-35	03508	DA2527 (1N4152)
A88CR138	152-0333-00	B040035		SEMICOND DVC,DI:SM,SI,55V,200MA,DO-35	07263	FDH-6012
A88CR144	152-0141-02	B010100	B035999	SEMICOND DVC,DI:SM,SI,30V,150MA,30W,DO-35	03508	DA2527 (1N4152)
A88CR148	152-0141-02			SEMICOND DVC,DI:SM,SI,30V,150MA,30W,DO-35	03508	DA2527 (1N4152)
A88CR205	152-0141-02			SEMICOND DVC,DI:SM,SI,30V,150MA,30W,DO-35	03508	DA2527 (1N4152)
A88CR209	152-0141-02			SEMICOND DVC,DI:SM,SI,30V,150MA,30W,DO-35	03508	DA2527 (1N4152)
A88CR214	152-0141-02			SEMICOND DVC,DI:SM,SI,30V,150MA,30W,DO-35	03508	DA2527 (1N4152)
A88CR218	152-0141-02			SEMICOND DVC,DI:SM,SI,30V,150MA,30W,DO-35	03508	DA2527 (1N4152)
A88CR220	152-0141-02			SEMICOND DVC,DI:SM,SI,30V,150MA,30W,DO-35	03508	DA2527 (1N4152)
A88CR222	152-0141-02			SEMICOND DVC,DI:SM,SI,30V,150MA,30W,DO-35	03508	DA2527 (1N4152)
A88CR240	152-0141-02			SEMICOND DVC,DI:SM,SI,30V,150MA,30W,DO-35	03508	DA2527 (1N4152)
A88CR248	152-0141-02			SEMICOND DVC,DI:SM,SI,30V,150MA,30W,DO-35	03508	DA2527 (1N4152)
A88CR320	152-0141-02			SEMICOND DVC,DI:SM,SI,30V,150MA,30W,DO-35	03508	DA2527 (1N4152)
A88CR324	152-0141-02			SEMICOND DVC,DI:SM,SI,30V,150MA,30W,DO-35	03508	DA2527 (1N4152)
A88CR328	152-0333-00			SEMICOND DVC,DI:SM,SI,55V,200MA,DO-35	07263	FDH-6012
A88CR346	152-0366-00			SEMICOND DVC,DI:RECT,SI,400V,1A,DO-41	05829	GP10G-020
A88CR402	152-0141-02			SEMICOND DVC,DI:SM,SI,30V,150MA,30W,DO-35	03508	DA2527 (1N4152)
A88CR404	152-0141-02			SEMICOND DVC,DI:SM,SI,30V,150MA,30W,DO-35	03508	DA2527 (1N4152)
A88CR436	152-0366-00			SEMICOND DVC,DI:RECT,SI,400V,1A,DO-41	05829	GP10G-020
A88CR442	152-0141-02			SEMICOND DVC,DI:SM,SI,30V,150MA,30W,DO-35	03508	DA2527 (1N4152)
A88CR454	152-0141-02			SEMICOND DVC,DI:SM,SI,30V,150MA,30W,DO-35	03508	DA2527 (1N4152)
A88CR502	152-0366-00			SEMICOND DVC,DI:RECT,SI,400V,1A,DO-41	05829	GP10G-020
A88CR534	152-0141-02			SEMICOND DVC,DI:SM,SI,30V,150MA,30W,DO-35	03508	DA2527 (1N4152)
A88CR536	152-0141-02			SEMICOND DVC,DI:SM,SI,30V,150MA,30W,DO-35	03508	DA2527 (1N4152)
A88CR602	152-0158-00			SEMICOND DVC,DI:RECT,SI,200V,3A,A249	03508	1N5624
A88CR606	152-0158-00			SEMICOND DVC,DI:RECT,SI,200V,3A,A249	03508	1N5624
A88CR608	152-0141-02			SEMICOND DVC,DI:SM,SI,30V,150MA,30W,DO-35	03508	DA2527 (1N4152)
A88CR628	152-0141-02			SEMICOND DVC,DI:SM,SI,30V,150MA,30W,DO-35	03508	DA2527 (1N4152)
A88Q12	151-0426-00			TRANSISTOR:NPN,SI,TO-220	03508	2N4347A7
A88Q16	151-0426-00			TRANSISTOR:NPN,SI,TO-220	03508	2N4347A7
A88Q18	151-0136-00			TRANSISTOR:NPN,SI,TO-39	02735	2N435
A88Q22	151-0476-00			TRANSISTOR:NPN,SI,TO-220AB	02735	6N40

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Descnt	Name & Description	Mfr. Code	Mfr. Part No.
A88Q28	151-0407-00			TRANSISTOR:NPN,SI,TO-39	80009	151-0407-00
A88Q30	151-0476-00			TRANSISTOR:NPN,SI,TO-220AB	02735	88430
A88Q40	151-0426-00			TRANSISTOR:NPN,SI,TO-220	03508	444HR242
A88Q44	151-0426-00			TRANSISTOR:NPN,SI,TO-220	03508	444HR242
A88Q48	151-0136-00			TRANSISTOR:NPN,SI,TO-39	02735	35495
A88Q102	151-0292-00			TRANSISTOR:NPN,SI,TO-78	07263	SP12141
A88Q118	151-0292-00			TRANSISTOR:NPN,SI,X-55	80009	151-0292-00
A88Q126	151-0292-00			TRANSISTOR:NPN,SI,TO-78	07263	SP12141
A88Q128	151-0350-00			TRANSISTOR:PNP,SI,TO-92	04713	SPS6700
A88Q138	151-0232-00			TRANSISTOR:NPN,SI,TO-78	07263	SP12141
A88Q140	151-0432-00			TRANSISTOR:NPN,SI,TO-106	04713	SPS8512
A88Q150	151-0232-00			TRANSISTOR:NPN,SI,TO-78	07263	SP12141
A88Q154	151-0350-00			TRANSISTOR:PNP,SI,TO-92	04713	SPS6700
A88Q202	151-0216-00			TRANSISTOR:PNP,SI,TO-92	04713	SPS8803
A88Q206	151-0192-00			TRANSISTOR:SELECTED	04713	SPS8801
A88Q212	151-0232-00			TRANSISTOR:NPN,SI,TO-78	07263	SP12141
A88Q228	151-0232-00			TRANSISTOR:NPN,SI,TO-78	07263	SP12141
A88Q234	151-0190-00			TRANSISTOR:NPN,SI,TO-92	80009	151-0190-00
A88Q238	151-0407-00			TRANSISTOR:NPN,SI,TO-39	80009	151-0407-00
A88Q240	151-0190-00			TRANSISTOR:NPN,SI,TO-92	80009	151-0190-00
A88Q248	151-0190-00			TRANSISTOR:NPN,SI,TO-92	80009	151-0190-00
A88Q258	151-0190-00			TRANSISTOR:NPN,SI,TO-92	80009	151-0190-00
A88Q308	151-0232-00			TRANSISTOR:NPN,SI,TO-78	07263	SP12141
A88Q312	151-0232-00			TRANSISTOR:NPN,SI,TO-78	07263	SP12141
A88Q318	151-0232-00			TRANSISTOR:NPN,SI,TO-78	07263	SP12141
A88Q332	151-0350-00			TRANSISTOR:PNP,SI,TO-92	04713	SPS6700
A88Q334	151-0432-00			TRANSISTOR:NPN,SI,TO-106	04713	SPS8512
A88Q444	151-0232-00			TRANSISTOR:NPN,SI,TO-78	07263	SP12141
A88Q446	151-0192-00			TRANSISTOR:SELECTED	04713	SPS8801
A88Q458	151-0292-00	B010100	B039999	TRANSISTOR:NPN,SI,X-55	80009	151-0292-00
A88Q458	151-0287-00	B040000		TRANSISTOR:NPN,SI,TO-39	04713	ST613
A88Q526	151-0407-00			TRANSISTOR:NPN,SI,TO-220	04713	SJE1085
A88Q534	151-0232-00			TRANSISTOR:NPN,SI,TO-78	07263	SP12141
A88Q538	151-0292-00			TRANSISTOR:NPN,SI,X-55	80009	151-0292-00
A88Q540	151-0287-00			TRANSISTOR:NPN,SI,TO-39	04713	ST613
A88Q626	151-0422-00			TRANSISTOR:PNP,SI,TO-92	04713	SPS8956(MPSW51)
A88Q634	151-0292-00			TRANSISTOR:NPN,SI,X-55	80009	151-0292-00
A88Q638	151-0192-00			TRANSISTOR:SELECTED	04713	SPS8801
A88Q644	151-0468-00			TRANSISTOR:NPN,SI,TO-3	04713	SJE802
A88Q706	151-0422-00			TRANSISTOR:PNP,SI,TO-92	04713	SPS8956(MPSW51)
A88Q708	151-0477-00			TRANSISTOR:NPN,SI,X-66	04713	SJE374
A88Q738	151-0465-00			TRANSISTOR:PNP,SI,TO-126	04713	SJE797C
A88Q748	151-0477-00			TRANSISTOR:NPN,SI,X-66	04713	SJE374
A88R2	315-0681-00			RES,FXD,FILM:680 OHM,5%,0.25W	57668	NTR25J-E680E
A88R4	308-0643-00			RES,FXD,WW:0.10 OHM,5%,3W	14193	5631 91E0H
A88R5	315-0271-00	B010100	B039999	RES,FXD,FILM:270 OHM,5%,0.25W	57668	NTR25J-E270E
A88R6	321-0156-00	B040000		RES,FXD,FILM:412 OHM,1%,0.125W,TC=T0	07716	CEA0412F0F
A88R7	315-0102-00	B010100	B039999	RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25J-E1K0
A88R8	321-0331-00			RES,FXD,FILM:27.4K OHM,1%,0.125W,TC=T0	19701	5043E2742F
A88R22	315-0331-00			RES,FXD,FILM:330 OHM,5%,0.25W	57668	NTR25J-E330E
A88R24	308-0240-00			RES,FXD,WW:2 OHM,5%,3W	05347	MS3-2R00J
A88R25	321-0122-00			RES,FXD,FILM:182 OHM,1%,0.125W,TC=T0	19701	5033E1822F
A88R30	308-0240-00			RES,FXD,WW:2 OHM,5%,3W	05347	MS3-2R00J
A88R32	315-0471-00			RES,FXD,FILM:470 OHM,5%,0.25W	57668	NTR25J-E470E
A88R34	321-0324-00			RES,FXD,FILM:40K OHM,0.1%,0.125W,TC=T5	19701	5033E40A03
A88R38	315-0681-00			RES,FXD,FILM:680 OHM,5%,0.25W	57668	NTR25J-E680E
A88R44	315-0562-00			RES,FXD,FILM:5.6K OHM,5%,0.25W	57668	NTR25J-E05K6
A88R46	315-0101-00			RES,FXD,FILM:100 OHM,5%,0.25W	57668	NTR25J-E100E
A88R52	315-0134-00			RES,FXD,FILM:130K OHM,5%,0.25W	57668	NTR25J-E130K

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Dscont	Name & Description	Mfr. Code	Mfr. Part No.
A8R104	321-0326-00			RES,FXD,FILM:15.0K OHM,1%,0.125W,TC=T0	19701	5033ED15J12F
A8R105	315-0331-00			RES,FXD,FILM:330 OHM,5%,0.25W	57668	NTR25J-E330E
A8R102	315-0222-00			RES,FXD,FILM:2.2K OHM,5%,0.25W	57668	NTR25J-E02K2
A8R104	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25J-E01K0
A8R106	315-0822-00			RES,FXD,FILM:8.2K OHM,5%,0.25W	19701	5043CX8K20J
A8R108	315-0471-00			RES,FXD,FILM:470 OHM,5%,0.25W	57668	NTR25J-E470E
A8R112	308-0643-00			RES,FXD,WW:0.10 OHM,3%,3W	16193	5031 R10JH
A8R114	315-0470-00			RES,FXD,FILM:47 OHM,5%,0.25W	57668	NTR25J-E47R0
A8R115	321-0526-07			RES,FXD,FILM:4K OHM,0.1%,0.125W,TC=T9	19701	5033RE4K000
A8R116	315-0681-00			RES,FXD,FILM:680 OHM,5%,0.25W	57668	NTR25J-E680E
A8R118	315-0363-00			RES,FXD,FILM:36K OHM,5%,0.25W	57668	NTR25J-E36K0
A8R120	321-0524-07			RES,FXD,FILM:40K OHM,0.1%,0.125W,TC=T5	19701	5033RE40K000
A8R122	315-0472-00			RES,FXD,FILM:4.7K OHM,5%,0.25W	57668	NTR25J-E04K7
A8R123	323-0310-00			RES,FXD,FILM:16.5K OHM,1%,0.5W,TC=T0	75042	CEC10-1652F
A8R124	315-0103-00			RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10K00J
A8R126	315-0183-00			RES,FXD,FILM:18K OHM,5%,0.25W	19701	5043CX18K00J
A8R128	315-0274-00			RES,FXD,FILM:270K OHM,5%,0.25W	57668	NTR25J-E270K
A8R130	315-0151-00			RES,FXD,FILM:150 OHM,5%,0.25W	57668	NTR25J-E150E
A8R132	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25J-E01K0
A8R134	315-0153-00			RES,FXD,FILM:15K OHM,5%,0.25W	19701	5043CX15K00J
A8R136	315-0103-00			RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10K00J
A8R138	315-0184-00			RES,FXD,FILM:180K OHM,5%,0.25W	19701	5043CX180K0J
A8R140	308-0643-00			RES,FXD,WW:0.10 OHM,3%,3W	16193	5031 R10JH
A8R141	315-0753-00	B010100	B039999	RES,FXD,FILM:75K OHM,5%,0.25W	57668	NTR25J-E75K0
A8R141	315-0103-00	B040000		RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10K00J
A8R142	315-0334-00	B010100	B039999	RES,FXD,FILM:330K OHM,5%,0.25W	57668	NTR25J-E 330K
A8R144	315-0152-00			RES,FXD,FILM:1.5K OHM,5%,0.25W	57668	NTR25J-E01K5
A8R145	321-0524-07			RES,FXD,FILM:40K OHM,0.1%,0.125W,TC=T9	19701	5033RE40K000
A8R146	315-0182-00	B010100	B039999	RES,FXD,FILM:1.8K OHM,5%,0.25W	57668	NTR25J-E1K8
A8R146	315-0333-00	B040000		RES,FXD,FILM:33K OHM,5%,0.25W	57668	NTR25J-E33K0
A8R147	315-0471-00	B040000		RES,FXD,FILM:470 OHM,5%,0.25W	57668	NTR25J-E470
A8R148	315-0513-00			RES,FXD,FILM:51K OHM,5%,0.25W	57668	NTR25J-E51K0
A8R202	315-0562-00			RES,FXD,FILM:5.6K OHM,5%,0.25W	57668	NTR25J-E05K6
A8R204	315-0221-00			RES,FXD,FILM:220 OHM,5%,0.25W	57668	NTR25J-E220E
A8R206	315-0124-00			RES,FXD,FILM:120K OHM,5%,0.25W	19701	5043CX120K0J
A8R208	315-0101-00			RES,FXD,FILM:100 OHM,5%,0.25W	57668	NTR25J-E100E
A8R212	315-0103-00			RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10K00J
A8R214	315-0123-00			RES,FXD,FILM:12K OHM,5%,0.25W	57668	NTR25J-E12K0
A8R215	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25J-E01K0
A8R216	315-0103-00			RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10K00J
A8R217	315-0224-00			RES,FXD,FILM:220K OHM,5%,0.25W	57668	NTR25J-E220K
A8R218	315-0273-00			RES,FXD,FILM:27K OHM,5%,0.25W	57668	NTR25J-E27K0
A8R219	315-0273-00			RES,FXD,FILM:27K OHM,5%,0.25W	57668	NTR25J-E27K0
A8R224	315-0471-00			RES,FXD,FILM:470 OHM,5%,0.25W	57668	NTR25J-E470E
A8R225	315-0224-00			RES,FXD,FILM:220K OHM,5%,0.25W	57668	NTR25J-E220K
A8R230	315-0331-00			RES,FXD,FILM:330 OHM,5%,0.25W	57668	NTR25J-E330E
A8R234	321-0148-00			RES,FXD,FILM:34K OHM,1%,0.125W,TC=T0	07716	CEB0316F0F
A8R236	323-0310-00			RES,FXD,FILM:16.5K OHM,1%,0.5W,TC=T0	75042	CEC10-1652F
A8R238	315-0122-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE01K0
A8R240	321-1286-07			RES,FXD,FILM:12.0K OHM,0.1%,0.125W,TC=T9	19701	5033RE12K000
A8R241	321-0437-00			RES,FXD,FILM:150K OHM,1%,0.125W,TC=T0	19701	5033E150A0F
A8R242	321-0462-00			RES,FXD,FILM:150K OHM,1%,0.125W,TC=T0	19701	5033E150A0F
A8R243	321-0756-00			RES,FXD,FILM:50K OHM,1%,0.125W,TC=T0	24546	M55502A0F
A8R244	321-0756-00			RES,FXD,FILM:50K OHM,1%,0.125W,TC=T0	24546	M55502A0F
A8R245	321-0452-00			RES,FXD,FILM:499K OHM,1%,0.125W,TC=T0	19701	5033EA499F
A8R246	321-0481-00			RES,FXD,FILM:1M OHM,1%,0.125W,TC=T0	19701	5043ED1M00F
A8R247	321-0452-00			RES,FXD,FILM:499K OHM,1%,0.125W,TC=T0	19701	5043ED499K0F
A8R249	315-0101-00			RES,FXD,FILM:100 OHM,5%,0.25W	57668	NTR25J-E 100E
A8R302	304-0681-00			RES,FXD,CMPSN:680 OHM,10%,1W	01121	GB6811

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Descnt	Name & Description	Mfr. Code	Mfr. Part No.
0888308	315-0784-00			RES,FXD,FILM:780K OHM,5%,0.25W	19701	5043C0780QJ
0888310	315-0274-00			RES,FXD,FILM:270K OHM,5%,0.25W	57668	MTR25J-E270K
0888311	321-0924-07			RES,FXD,FILM:90K OHM,0.1%,0.125W,TC=T9	19701	5033RE40030
0888312	315-0223-00			RES,FXD,FILM:22K OHM,5%,0.25W	19701	5043C223QJ52J
0888314	315-0750-00			RES,FXD,FILM:75 OHM,5%,0.25W	57668	MTR25J-E75E0
0888315	321-0210-00			RES,FXD,FILM:1.50K OHM,1%,0.125W,TC=T0	19701	5033ED1X50F
0888316	315-0331-00			RES,FXD,FILM:330 OHM,5%,0.25W	57668	MTR25J-E330E
0888317	321-0265-00			RES,FXD,FILM:5.62K OHM,1%,0.125W,TC=T0	19701	5043ED5X62QF
0888322	315-0562-00			RES,FXD,FILM:5.6K OHM,5%,0.25W	57668	MTR25J-E5K6
0888326	315-0512-00			RES,FXD,FILM:5.1K OHM,5%,0.25W	57668	MTR25J-E5K1
0888328	323-0266-00			RES,FXD,FILM:5.76K OHM,1%,0.5W,TC=T0	19701	5043RD5X76QF
0888334	315-0272-00			RES,FXD,FILM:2.7K OHM,5%,0.25W	57668	MTR25J-E2K7
0888335	315-0394-00			RES,FXD,FILM:390K OHM,5%,0.25W	57668	MTR25J-E390K
0888338	315-0621-00			RES,FXD,FILM:620 OHM,5%,0.25W	57668	MTR25J-E620E
0888342	315-0243-00			RES,FXD,FILM:24K OHM,5%,0.25W	57668	MTR25J-E24K0
0888344	321-0431-00			RES,FXD,FILM:301K OHM,1%,0.125W,TC=T0	07716	CEC0301G2F
0888346	315-0151-00			RES,FXD,FILM:150 OHM,5%,0.25W	57668	MTR25J-E 150E
0888348	323-0401-04			RES,FXD,FILM:1 MEG OHM,0.1%,0.5W,TC=T2	07716	CECC1000JB
0888352	315-0682-00			RES,FXD,FILM:6.8K OHM,5%,0.25W	57668	MTR25J-E6K8
0888356	315-0511-00			RES,FXD,FILM:510 OHM,5%,0.25W	57668	MTR25J-E510E
0888358	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	MTR25JE01K0
0888404	321-1256-07			RES,FXD,FILM:12.0K OHM,0.1%,0.125W,TC=T9	19701	5033RE120QB
0888406	321-0332-07			RES,FXD,FILM:28.0K OHM,0.1%,0.125W,TC=T9	19701	5033RE28K0B
0888410	315-0101-00			RES,FXD,FILM:100 OHM,5%,0.25W	57668	MTR25J-E 100E
0888440	323-0510-00			RES,FXD,FILM:2.00 MEG OHM,1%,0.5W,TC=T0	75042	CECT0-2004F
0888441	315-0563-00			RES,FXD,FILM:56K OHM,5%,0.25W	19701	5043C056KQJ
0888442	315-0273-00			RES,FXD,FILM:27K OHM,5%,0.25W	57668	MTR25J-E27K0
0888443	315-0244-00			RES,FXD,FILM:240K OHM,5%,0.25W	19701	5043C024KQJ
0888444	315-0124-00			RES,FXD,FILM:120K OHM,5%,0.25W	19701	5043C012KQJ
0888445	315-0333-00			RES,FXD,FILM:33K OHM,5%,0.25W	57668	MTR25J-E33K0
0888448	315-0101-00			RES,FXD,FILM:100 OHM,5%,0.25W	57668	MTR25J-E 100E
0888450	321-0728-06			RES,FXD,FILM:1988 OHM,0.2%,0.125W,TC=T9	19701	5033RE1980C
0888452	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	MTR25JE01K0
0888512	315-0471-00			RES,FXD,FILM:470 OHM,5%,0.25W	57668	MTR25J-E470E
0888514	321-0254-00			RES,FXD,FILM:5.11K OHM,1%,0.125W,TC=T0	07716	CEA0549G0C
0888516	321-0924-07			RES,FXD,FILM:40K OHM,0.1%,0.125W,TC=T9	19701	5033RE400D0
0888520	311-1248-00			RES,VAR,NONWW:100Ω,500 OHM,0.5W	32997	3386X-T07-501
0888530	321-0373-03			RES,FXD,FILM:75.0K OHM,0.1%,0.125W,TC=T2	19701	5033RC7503B
0888531	315-0202-00			RES,FXD,FILM:2K OHM,5%,0.25W	57668	MTR25J-E 2K
0888534	315-0244-00			RES,FXD,FILM:240K OHM,5%,0.25W	19701	5043CX240KQ
0888535	315-0563-00			RES,FXD,FILM:56K OHM,5%,0.25W	19701	5043CX056KQJ
0888536	315-0473-00			RES,FXD,FILM:47K OHM,5%,0.25W	57668	MTR25J-E47K0
0888537	321-0414-03			RES,FXD,FILM:200K OHM,0.25%,0.125W,TC=T2	07716	CEA 200K0HM 0.25
0888538	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	MTR25JE01K0
0888540	315-0682-00	B050000		RES,FXD,FILM:6.8K OHM,5%,0.25W	57668	MTR25J-E6K8
0888542	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	MTR25JE01K0
0888545	301-0124-00	B010100	B089999	RES,FXD,CMPSN:120Ω OHM,5%,2W	01121	HB12G5
0888545	305-0334-00	B090000		RES,FXD,CMPSN:330K OHM,5%,2W	01121	HB33G5
0888602	308-0643-00			RES,FXD,WW:0.1Ω OHM,3%,3W	14193	SA31 R10DH
0888612	321-0318-03			RES,FXD,FILM:20.0K OHM,0.125%,0.125W,TC=T2	19701	5033RC20K0C
0888612	321-0957-03			RES,FXD,FILM:55K OHM,0.25%,0.125W,TC=T2	07716	CEAC5500C
0888613	321-1358-07			RES,FXD,FILM:53K OHM,0.1%,0.125W,TC=T9	07716	CEAE5300B
0888614	321-0756-03			RES,FXD,FILM:50K OHM,0.25%,0.125W	07716	CEAC 5000C
0888615	321-0165-00			RES,FXD,FILM:511 OHM,1%,0.125W,TC=T0	07716	CEA0511K0F
0888616	315-0223-00			RES,FXD,FILM:22K OHM,5%,0.25W	19701	5043CX220QJ52J
0888618	315-0101-00			RES,FXD,FILM:100 OHM,5%,0.25W	57668	MTR25J-E 100E
0888624	315-0203-00			RES,FXD,FILM:20K OHM,5%,0.25W	57668	MTR25J-E 20K
0888626	315-0101-00			RES,FXD,FILM:100 OHM,5%,0.25W	57668	MTR25J-E 100E
0888628	315-0332-00			RES,FXD,FILM:3.3K OHM,5%,0.25W	57668	MTR25J-E3K3

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Dscont	Name & Description	Mfr. Code	Mfr. Part No.
A888531	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JE1K0
A888532	301-0104-00			RES,FXD,FILM:100K OHM,5%,0.5W	19701	5053CX100K0J
A888534	321-0481-00			RES,FXD,FILM:1K OHM,1%,0.125W,TC=T0	19701	5033EX1K000F
A888536	315-0333-00			RES,FXD,FILM:33K OHM,5%,0.25W	57668	NTR25J-E33K0
A888538	315-0103-00			RES,FXD,FILM:10K OHM,5%,0.25W	19701	5033CX10K00J
A888539	301-0101-00			RES,FXD,FILM:100 OHM,5%,0.5W	01121	EB1015
A888704	315-0121-00			RES,FXD,FILM:120 OHM,5%,0.25W	57668	NTR25J-E 120E
A888712	315-0121-00			RES,FXD,FILM:120 OHM,5%,0.25W	57668	NTR25J-E 120E
A888714	308-0885-00			RES,FXD,WW:0.05 OHM,10%,5W	91637	LWH5-10
A888715	315-0222-00			RES,FXD,FILM:2.2K OHM,5%,0.25W	57668	NTR25J-E2K2
A888720	315-0203-00			RES,FXD,FILM:20K OHM,5%,0.25W	57668	NTR25J-E 20K
A888722	315-0561-00			RES,FXD,FILM:560 OHM,5%,0.25W	19701	5043CX560R0J
A888724	315-0101-00			RES,FXD,FILM:100 OHM,5%,0.25W	57668	NTR25J-E 100E
A888728	315-0680-00			RES,FXD,FILM:68 OHM,5%,0.25W	57668	NTR25J-E68R0
A888726	315-0122-00			RES,FXD,FILM:1.2K OHM,5%,0.25W	57668	NTR25J-E01K2
A888740	315-0222-00			RES,FXD,FILM:2.2K OHM,5%,0.25W	57668	NTR25J-E02K2
A888240	156-0037-00			MICROCKT,LINEAR:OPNL AMPL,SEL	04713	MC1741CD1
A888628	156-0405-00			MICROCKT,LINEAR:OPNL AMPL	01295	LM324N
A888R145	152-0185-00	B040000		SEMICOND DVC,DI:ZEN,SI,5.1V,5%,0.4W,DO-7	04713	SZ11759RL
A888R140	152-0185-00	B040000		SEMICOND DVC,DI:ZEN,SI,5.1V,5%,0.4W,DO-7	04713	SZ11759RL
A888R212	152-0175-00			SEMICOND DVC,DI:ZEN,SI,5.6V,5%,0.4W,DO-7	14552	TD3B10076
A888R320	152-0466-00			SEMICOND DVC,DI:ZEN,SI,6.2V,2%,0.25W	04713	SZ620009
A888R340	152-0514-00			SEMICOND DVC,DI:ZEN,SI,100,1%,0.4W,DO-7	04713	SZ6159L
A888R540	152-0247-00	B010100	B039999	SEMICOND DVC,DI:ZEN,SI,150V,5%,0.4W,DO-7	04713	SZ6275E15L
	---- ----			CHASSIS PARTS		
B5400	119-1024-00	B101000	B999999	FAN,VENTILATING:115V,16W,3100 RPM,115 CFM	82877	029554
B5400	119-1788-00	B050000		FAN,TUBEAXIAL:50V,3100 RPM,115 CFM	82877	MX 7225
C5200	283-0211-00			CAP,FXD,CER DI:0.1UF,10%,200V	04222	SR402EC104KSE
C5201	283-0211-00			CAP,FXD,CER DI:0.1UF,10%,200V	04222	SR402EC104KSE
C5202	283-0111-00			CAP,FXD,CER DI:0.1UF,20%,50V	05397	C330C104M5U5CA
C5203	283-0211-00			CAP,FXD,CER DI:0.1UF,10%,200V	04222	SR402EC104KSD
C5205	283-0001-00			CAP,FXD,CER DI:0.005UF,+100-0%,500V	59821	2DDAB15S2P
C5400	283-0280-00			CAP,FXD,CER DI:2200PF,10%,2000V	52706	SA402BQ202KA222
C6211	290-0813-00			CAP,FXD,ELCTLT:2000MF,+75-10%,20DV	56289	36D395H3
C6231	290-0813-00			CAP,FXD,ELCTLT:2000MF,+75-10%,20DV	56289	36D395H3
CR5204	152-0419-00			SEMICOND DVC,DI:RECT,SI,400V,1.5A,A59	04713	SR204A04L
DL5300	119-0497-00			DELAY LINE,ELEC:0295,100 OHM	80009	119-0497-00
DS5114	150-1014-00	B060000		LT EMITTING DIO:RED,695NM,100MA MAX	50261	DB444/MV5054-1
DS5115	150-1014-00	B060000		LT EMITTING DIO:RED,695NM,100MA MAX	50261	DB444/MV5054-1
F5400	159-0013-00			FUSE,CARTRIDGE:3AG,5A,250V,MEDIUM BLOW	71400	MTH-DW-5
L5400	120-1165-00			TRANSFORMER,RF:COMMON MODE REJECTION	TK1345	120-1165-00
L5401	108-0902-00			COIL,RF:FIXED,50UH	80009	108-0902-00
L5402	108-0902-00			COIL,RF:FIXED,50UH	80009	108-0902-00
L55200	108-0685-00			COIL,RF:FIXED,39UH	TK1345	108-0685-00
L55201	108-0685-00			COIL,RF:FIXED,39UH	TK1345	108-0685-00
P5201	135-0120-02	B010100	B111249	SKT,PL-IN ELEK:ELECTRN TUBE,13 CONT W/LEADS	80009	135-0120-02
Q6	151-0262-00			TRANSISTOR:NPN,SI,TO-220	02735	02386
Q12	151-0426-00			TRANSISTOR:NPN,SI,TO-220	03508	2N4922A2
Q16	151-0426-00			TRANSISTOR:NPN,SI,TO-220	03508	2N4922A2
Q22	151-0476-00			TRANSISTOR:NPN,SI,TO-220AB	02735	68A30
Q30	151-0476-00			TRANSISTOR:NPN,SI,TO-220AB	02735	68A30
Q40	151-0426-00			TRANSISTOR:NPN,SI,TO-220	03508	2N4922A2
Q206	151-0262-00			TRANSISTOR:NPN,SI,TO-220	02735	02386
Q706	151-0477-00			TRANSISTOR:NPN,SI,X-36	04713	SJE374
Q736	151-0465-00			TRANSISTOR:PNP,SI,TO-126	04713	SJE797E
Q748	151-0477-00			TRANSISTOR:NPN,SI,X-36	04713	SJE374

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Dscont	Name & Description	Mfr. Code	Mfr. Part No.
R5000	311-1150-00			RES,VAR,NOM:PNL,10K OHM,1W	02111	SSS-4
R5001	311-1763-00			RES,VAR,NOMNR:PNL,10K OHM,1W,DPST	12697	3815-DM0A27
R5002	311-1190-00			RES,VAR,NOMNR:PNL,10K OHM,1W,W/SW	01121	10M551
R5103	323-0184-00			RES,FXD,FILM:499 OHM,1%,0.5W,TC=10	75042	CEC50-4990F
R5200	315-0104-00			RES,FXD,FILM:100K OHM,5%,0.25W	57668	NTR25J-E100K
R5201	315-0103-00			RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10003J
R5202	315-0103-00			RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10003J
R5203	315-0202-00			RES,FXD,FILM:2K OHM,5%,0.25W	57668	NTR25J-E 2K
R5204	305-0103-00			RES,FXD,CMPSN:10K OHM,5%,2W	01121	HB1035
R5205	307-0292-17			RES,FXD,FILM:180 OHM W/PEAKING COIL	80009	307-0292-17
R5206	315-0103-00			RES,FXD,FILM:10K OHM,5%,0.25W	19701	5043CX10003J
R5210	311-2065-00	B100513		RES,VAR,NOMNR:PNL,5K OHM,10%,1W	01121	73W10G492L5050
R5400	303-0105-00	B111333		RES,FXD,CMPSN:1M OHM,5%,1W	01121	GB1055
S5001	311-1763-00			RES,VAR,NOMNR:PNL,10K OHM,1W,DPST	12697	3815-DM0A27
S5002	311-1190-00			RES,VAR,NOMNR:PNL,10K OHM,1W,W/SW	01121	10M551
S5400	260-1842-00			SWITCH,ROCKER:DPST,16A,250VAC	04009	2600-11E 718
S5401	260-1909-00			SWITCH,SLIDE:SPDT,10A,250V	73059	GB453-81
TS300	120-0892-00			XFMR,PWR,STU:HV	80009	120-0892-00
TS404	120-1161-00			XFMR,PWR,STPDN:	80009	120-1161-00
V5200	154-0688-00			ELECTRON TUBE:CRT	80009	154-0688-00

DIAGRAMS AND CIRCUIT BOARD ILLUSTRATIONS

Symbols

Graphic symbols and class designation letters are based on ANSI Standard Y32.2-1975.

Logic symbology is based on ANSI Y32.14-1973 in terms of positive logic. Logic symbols depict the logic function performed and may differ from the manufacturer's data.

The overline on a signal name indicates that the signal performs its intended function when it is in the low state.

Abbreviations are based on ANSI Y1.1-1972.

Other ANSI standards that are used in the preparation of diagrams by Tektronix, Inc. are:

Y14.15, 1966	Drafting Practices.
Y14.2, 1973	Line Conventions and Lettering.
Y10.5, 1968	Letter Symbols for Quantities Used in Electrical Science and Electrical Engineering.

American National Standard Institute
1430 Broadway
New York, New York 10018

Component Values

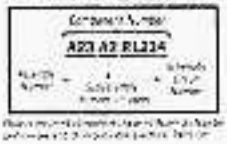
Electrical components shown on the diagrams are in the following units unless noted otherwise:

Capacitors = Values one or greater are in picofarads (pF). Values less than one are in microfarads (μF).
Resistors = Ohms (Ω).

Assembly Numbers and Grid Coordinates

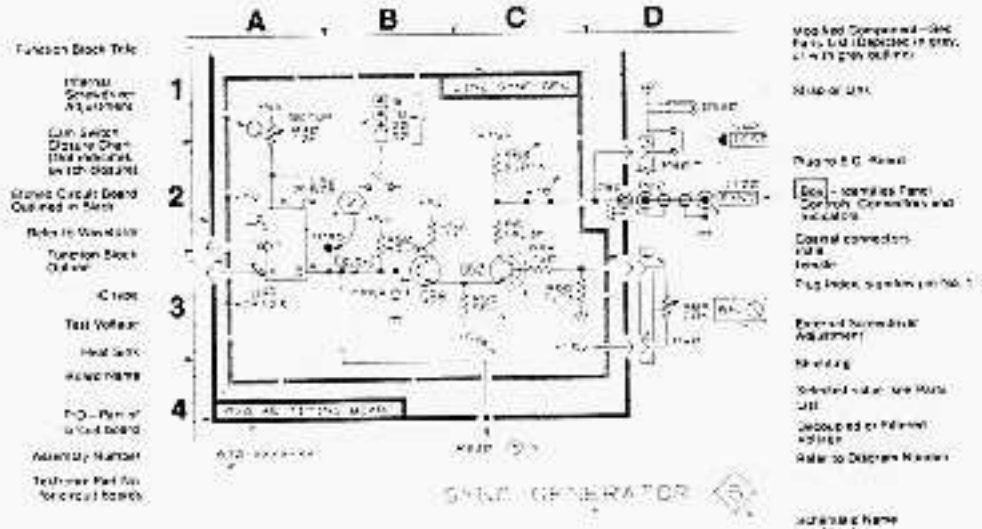
Each assembly in the instrument is assigned an assembly number (e.g., A20). The assembly number appears on the circuit board outline on the diagram, in the title for the circuit board component location illustration, and in the lookup table for the schematic diagram and corresponding component locator illustration. The Replaceable Electrical Parts list is arranged by assemblies in numerical sequence; the components are listed by component number (see following illustration for constructing a component number).

COMPONENT NUMBER EXAMPLE



The schematic diagram and circuit board component location illustration have grids. A lookup table with the grid coordinates is provided for ease of locating the component. Only the components illustrated on the facing diagram are listed in the lookup table. When more than one schematic diagram is used to illustrate the circuitry on a circuit board, the circuit board illustration may only appear opposite the first diagram on which it was illustrated; the lookup table will list the diagram number of other diagrams that the circuitry of the circuit board appears on.

The following special symbols may appear on the diagrams:



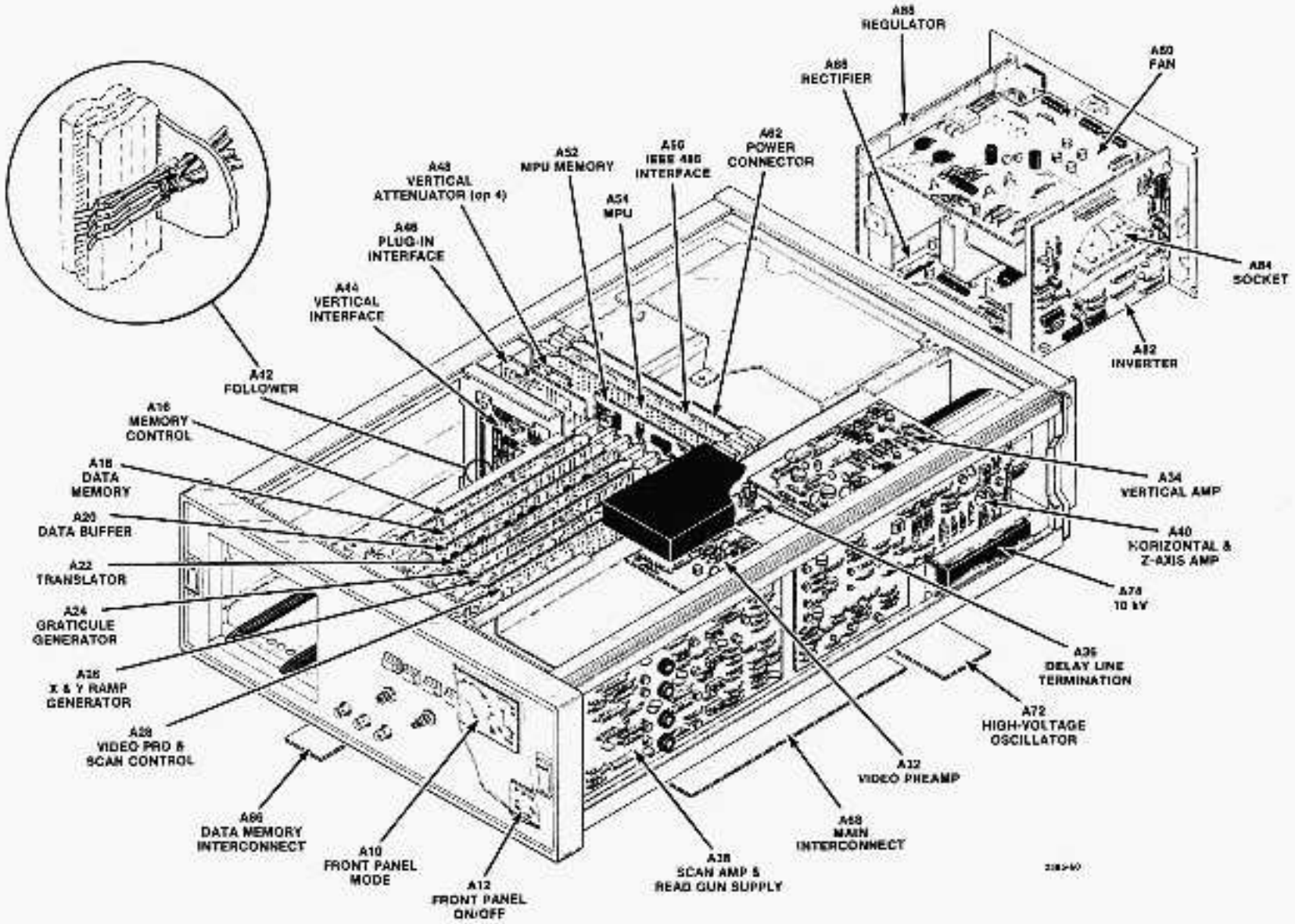


Fig. 7-1. Location of circuit board assemblies A10 through A88.

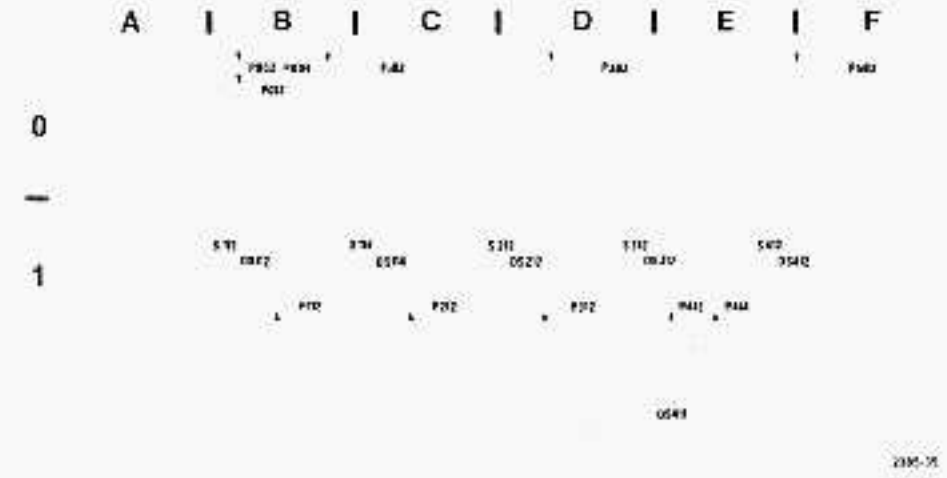


Fig. 7-2. The Front Panel Mode Switch circuit board, assembly A10.

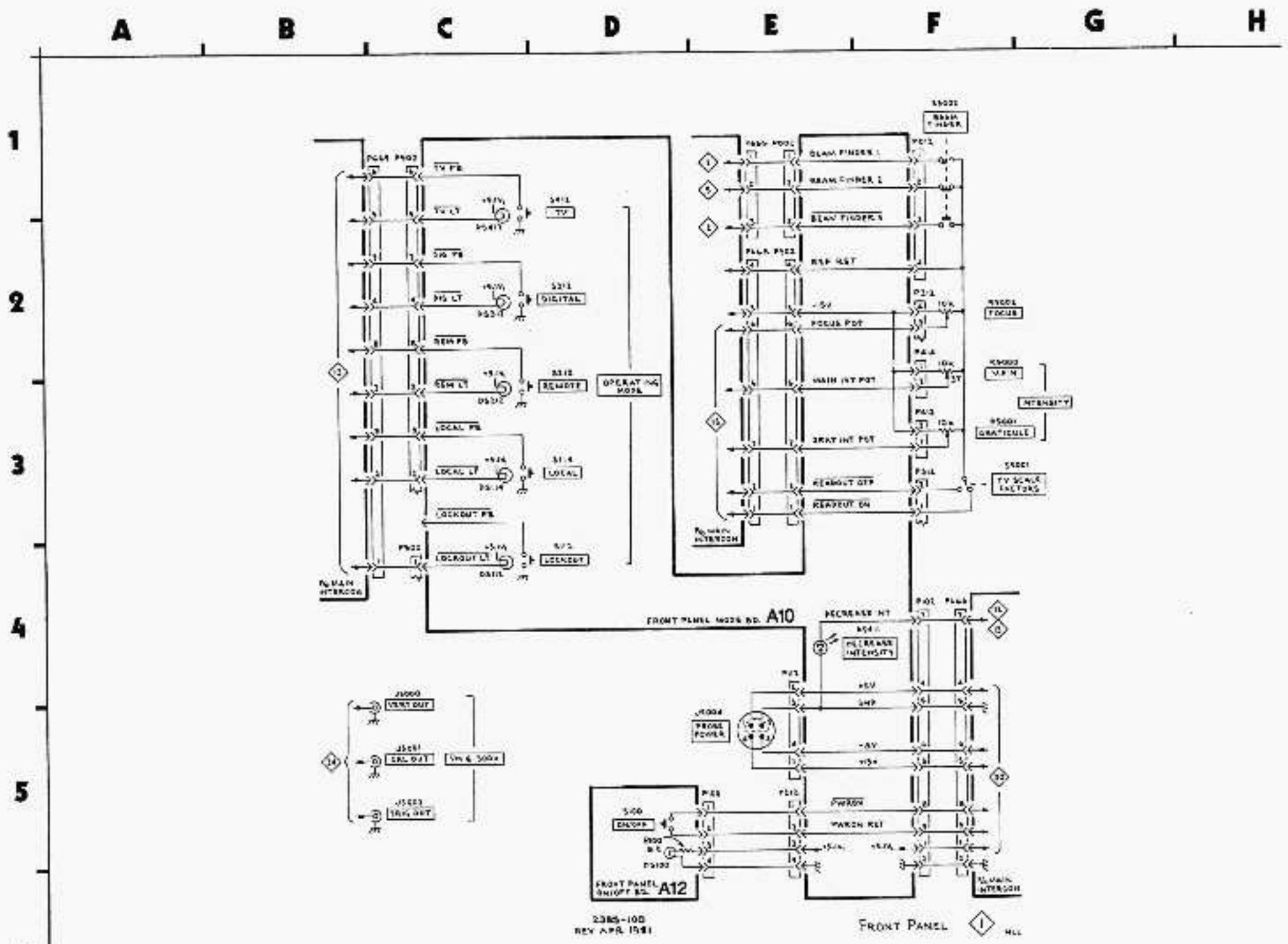
P/O A10 ASSY					FRONT PANEL ◇1
Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location
DS112	C4	B1	P312	F2	D1
DS114	C3	C1	P312	F3	D1
DS212	C3	D1	P412	F3	E1
DS312	C2	E1	P414	F2	E1
DS411	E4	E1	P502	C1	F0
DS412	C1	F0	P502	C4	F0
J5002	C4	CHASSIS	R5000	F2	CHASSIS
J5001	C5	CHASSIS	R5001	F3	CHASSIS
J5002	C5	CHASSIS	R5002	F2	CHASSIS
J5004	E5	CHASSIS			
			S112	C4	B1
P002	E1	B0	S114	C3	C1
P012	F1	B0	S212	C3	D1
P102	F4	C0	S312	C2	D1
P112	E4	B1	S412	C1	E1
P212	E5	C1	S5001	F3	CHASSIS
P302	E2	D0	S5002	F1	CHASSIS

P/O A 12 ASSY					FRONT PANEL ◇1
DS103	D5	A0	R100	D5	
P100	E5	A0	S100	D5	A0

P/O A66 ASSY					FRONT PANEL ◇1
P665	E1	G8	P669	E3	G5
P666	F4	G8	P669	C1	G5
P/O A66 ASSY - SEE FIG. 7-41					

COMPONENT NUMBER EXAMPLE

A23 A2 R3234


A
B
C
D
E
F
G
H
1
2
3
4
5
6
FRONT PANEL MODE BD. A10
FRONT PANEL SHIFT BD. A12
OPERAT ING MODE
INTENSITY
FRONT PANEL
2385-105
REV APR 1981

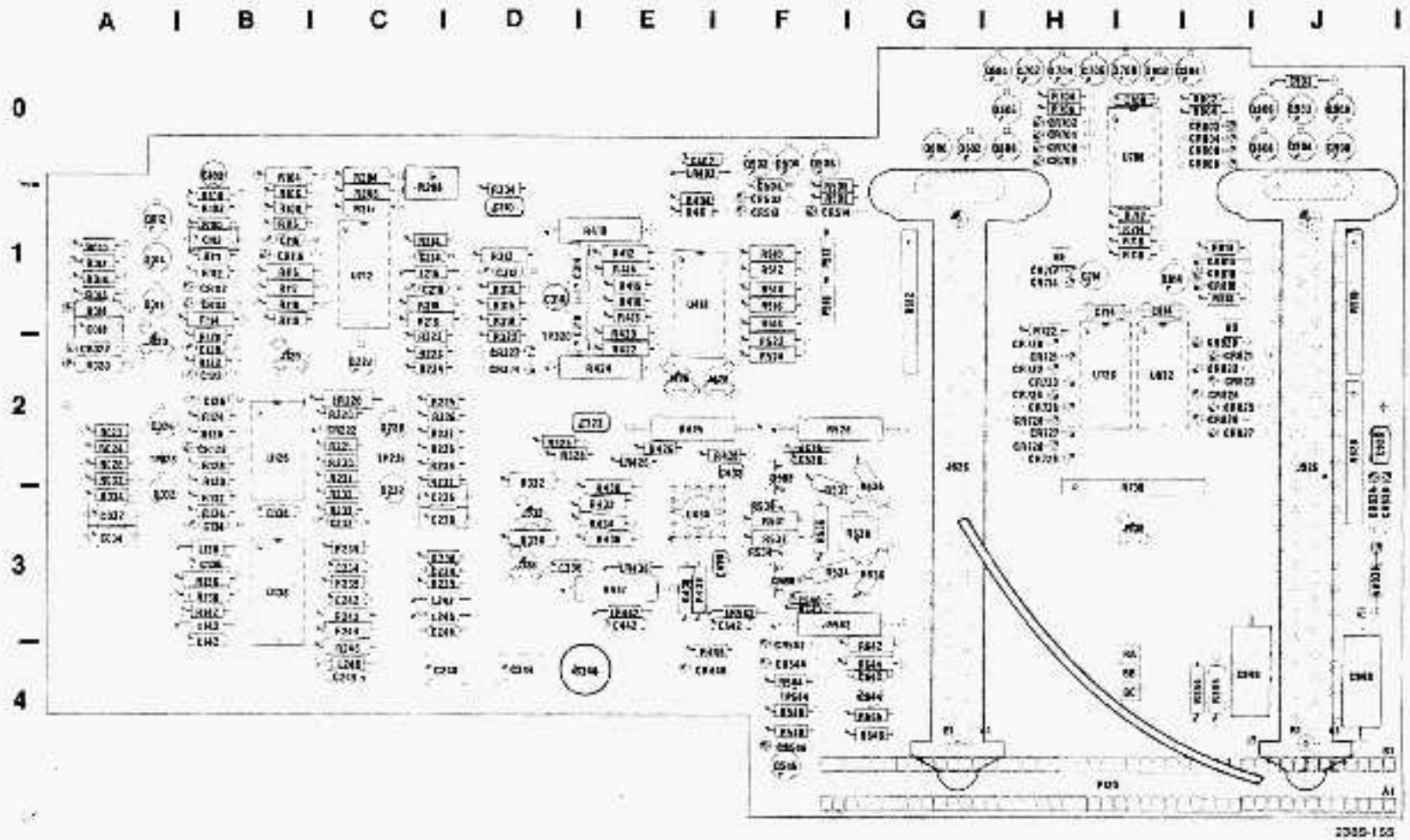


Fig. 7-3. The Plug-In Interface circuit board, assembly A46 (SN B100837 & up).

COMPONENT NUMBER EXAMPLE

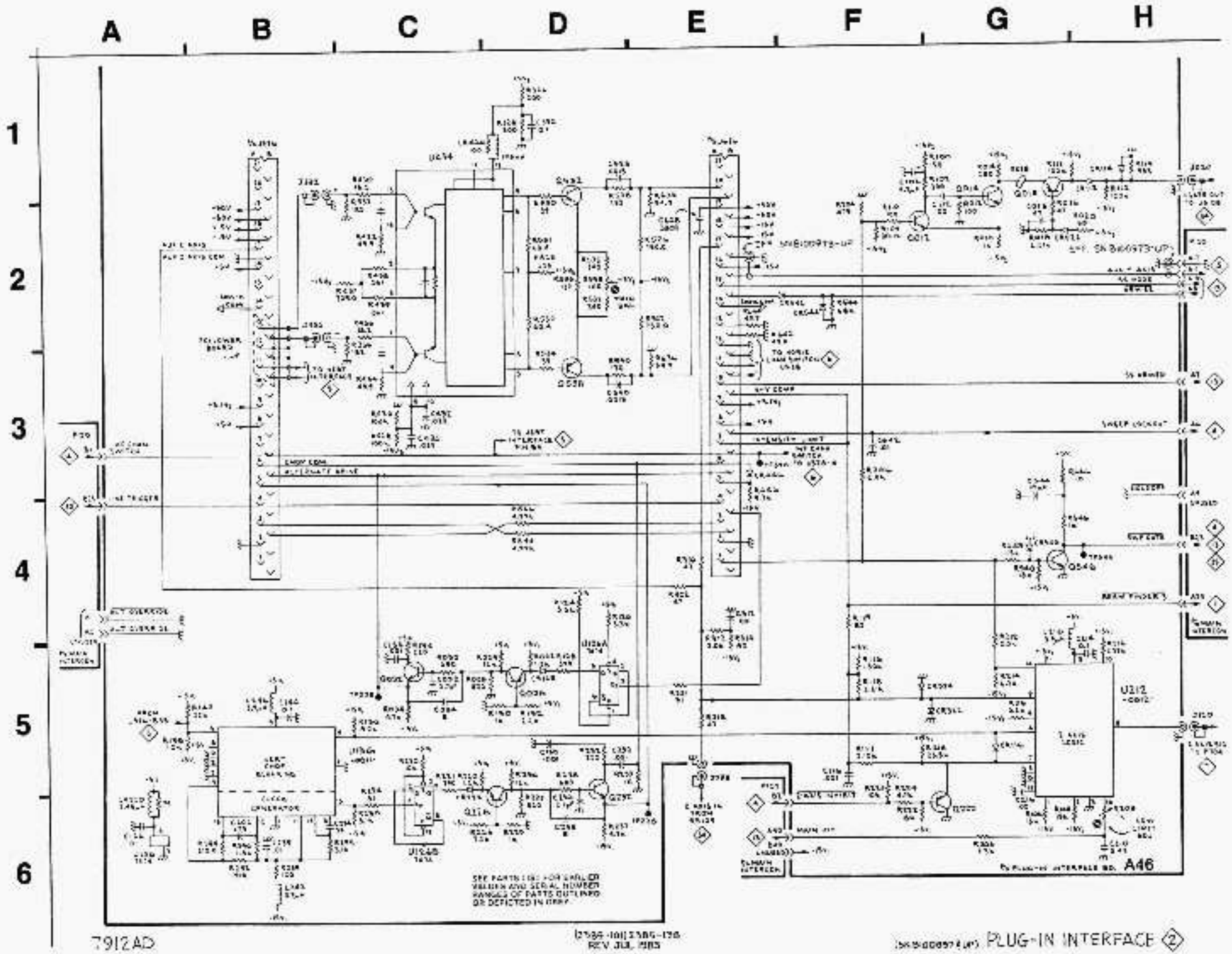
A23 A2 R1234

P/O A46 ASSY (SN B100637 & up)

PLUG-IN INTERFACE ◇2◇

Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location
C018	G2	A1	R016	G2	A1	R304	G8	D1
C032	C5	A3	R020	H1	A2	R313	E4	D1
C034	C5	A3	R022	D5	A2	R314	E4	D1
C102	F1	B0	R024	D5	A2	R316	E4	D1
C112	G2	B1	R026	C5	A2	R318	E5	
C116	F5	B1	R032	C5	A2	R322	E4	D2
C128	A8	B2	R034	C5	A3	R326	D1	D2
C134	C5	B3	R100	G1	B1	R328	D1	D2
C138	D5	B3	R102	G1	B1	R331	E5	
C214	H5	C1	R104	G2	B1	R332	C1	D2
C216	G6	C1	R106	G6	B1	R336	C2	D9
C232	D5	C3	R108	G6	B1	R423	D2	E2
C234	C6	C3	R110	F2	B1	R426	C3	E2
C236	D5	C3	R111	G1	B1	R428	C3	F3
C238	D6	C3	R112	H1	B1	R430	C1	E2
C239	B6	C3	R114	H1	B1	R432	C2	E2
C242	B6	C3	R115	G5	B1	R434	C3	E3
C313	E4	D1	R116	F5	B1	R436	C2	E3
C322	D1	E2	R117	F5	B1	R437	C2	E3
C335	D5	D3	R118	F5	B1	R438	C2	E3
C432	C3		R119	F4	B1	R439	C2	E3
C436	C3	E3	R122	E5	B2	R446	E3	E4
C526	D1	F2	R124	D4	B2	R526	E2	
			R126	D4	B2	R528	D1	F2
CR022	G2	A2	R128	D5	B2	R530	D2	F3
CR112	H1	B1	R130	D5	B2	R531	D2	F3
CR114	H1	B1	R132	D5	B3	R532	D2	
CR116	G5	B2	R134	C5	B3	R535	D2	F3
CR136	D5	B2	R136	C5	B3	R536	D2	
CR232	C6	C2	R138	A5	B3	R537	D2	F3
CR322	G5	D2	R142	B5	B4	R538	D2	F3
			R204	F2	C0	R540	D2	F3
E018	G1		R206	F3	C1	R542	E2	F3
			R208	H6	C1	R544	F3	F4
J120	A3	B2	R212	C5	C1	R545	H4	F4
J332	B1	D3	R214	G5	C1	R546	G4	F4
J336	B2	D3	R216	H5	C1	R634	E1	G2
J535	E1	G2	R218	G5	C1	R635	E3	G3
J826	D1	J2	R220	C5	C2	R642	E2	G3
			R221	C5	C2	R644	E2	G4
LR220	A6	C2	R222	F5	C1	R646	H3	G4
			R223	F6	C2	R648	G4	G4
Q014	G1	A1	R224	F6	C2	R844	D4	
Q016	G1	A1	R225	D5	C2	R845	D4	H4
Q026	D6	A2	R226	C6	C2			
Q032	C5	A2	R227	D6	C3	TP028	C5	A2
Q222	G5	C2	R230	C6	C3	TP228	E6	C2
Q226	C6	C2	R232	D5	C2	TP320	E3	D1
Q232	D5	C3	R233	D6	C3	TP544	H4	F4
Q532	D1	F2	R234	C5	C3			
Q538	D3	F2	R235	B6	C3	U128	A5	B2
Q545	H4	F4	R237	D5	C3	U128A	D5	B2
			R238	C6	C3	U128B	C6	B2
R010	G2	A1	R242	B5	C3	U129	B6	B2
R012	G2	A1	R244	B6	C3	U158	C5	B3
R014	G1	A1	R246	B5	C4	U212	H5	C1
						U434	C1	E3

P/O A46 ASSY ALSO SHOWN ON ◇3◇ & ◇6◇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7912AD
(2786-101) 2786-120
REV JUL 1985
PLUG-IN INTERFACE 2

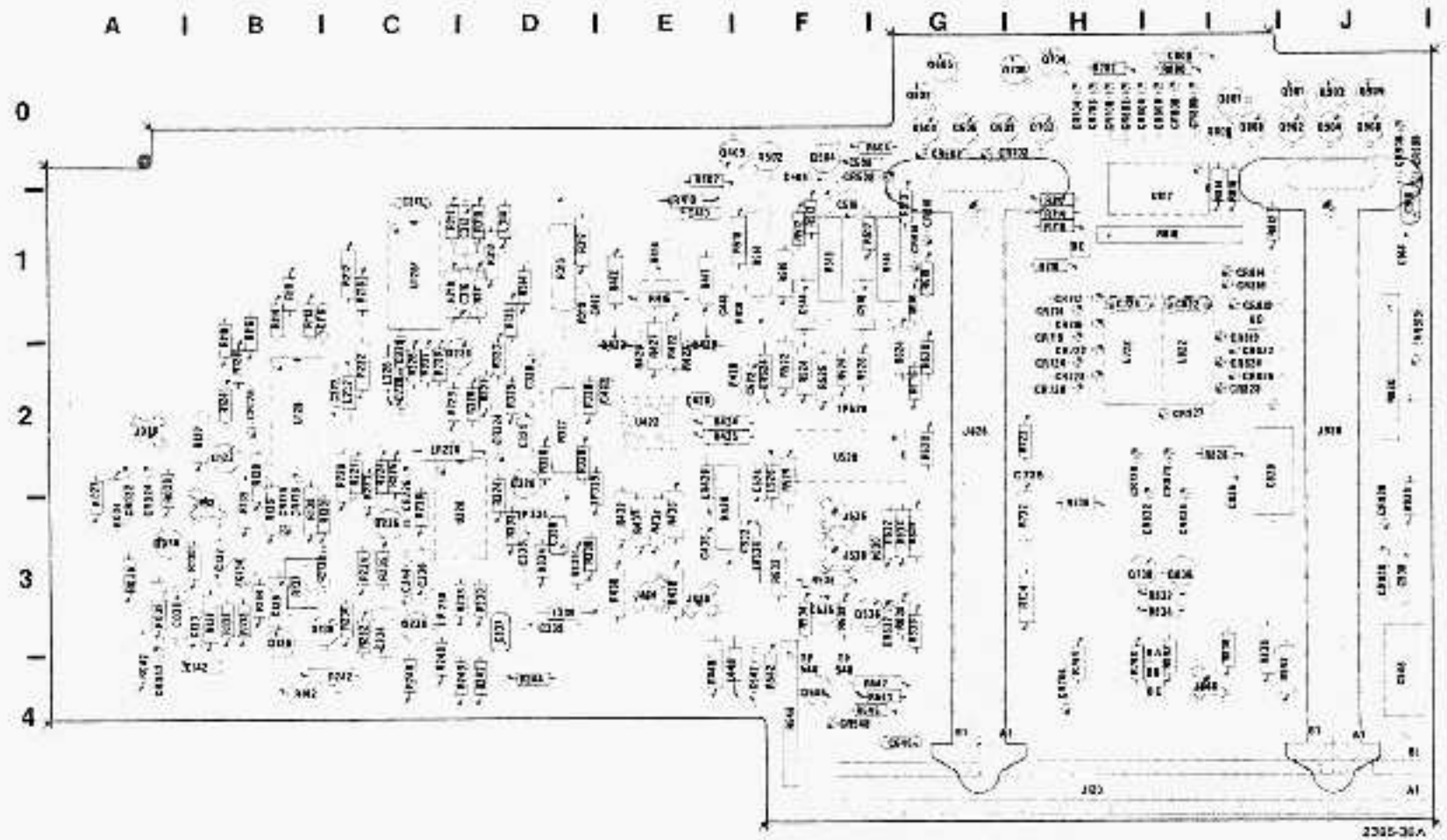
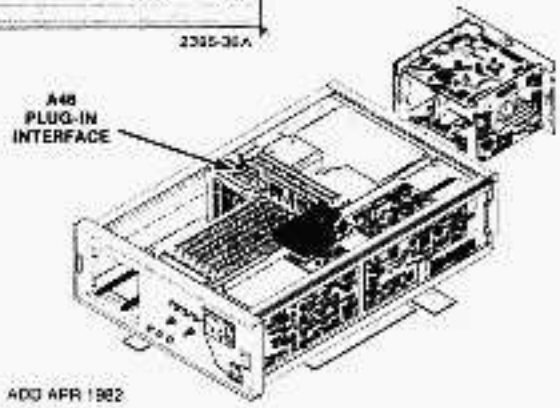


Fig. 7-4. The Plug-In Interface circuit board, assembly A46 (SN B100836 & below).



ADD APR 1982

COMPONENT NUMBER EXAMPLE

A33 A2 R1234

P/O A46 ASSY (SN B>60836 & below) — PLUG-IN INTERFACE ◇2

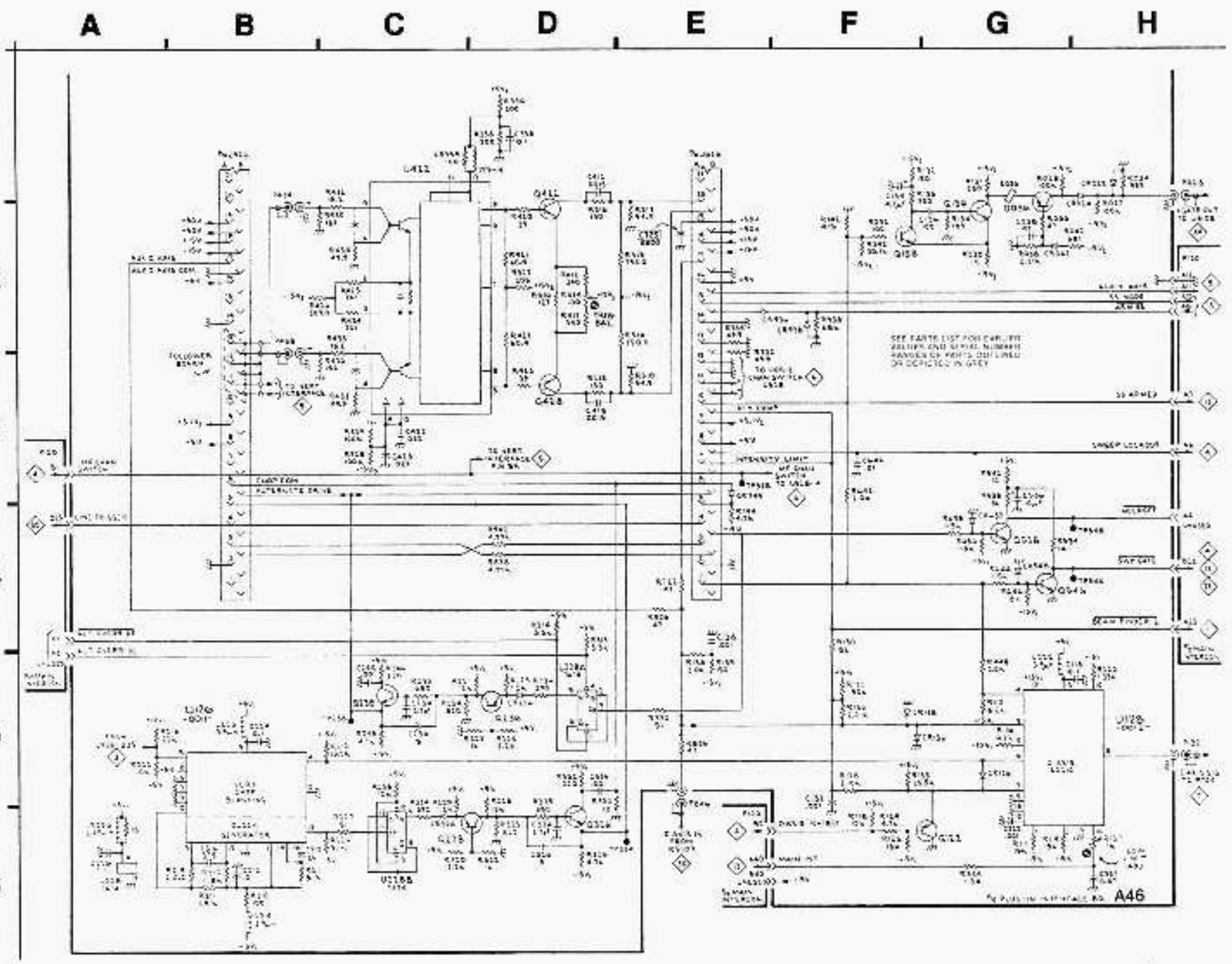
Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location
C038	G2	A3	Q326	D6	D2	R323	D6	D2
C118	H5	B1	Q422	D2	E2	R323	D6	D2
C132	F5	B3	Q428	D3	E2	R324	C6	D3
C134	F1	B3	Q538	G4	G3	R325	D6	D2
C136	G2	B3	Q546	G4	F4	R325	D6	D2
C138	E4	C3				R327	D2	D2
C212	B6	C1	R027	H2	A2	R328	C3	D2
C222	G6	C2	R028	G1	B2	R329	C3	D2
C224	B5	C2	R034	H1	A3	R330	E5	D3
C226	A6	C2	R036	G2	A3	R332	D5	D3
C234	C5	C3	R038	G2	A3	R334	D5	D3
C236	C6	C3	R042	H2	A4	R336	D1	D3
C244	C5	C4	R111	G8	B1	R338	D1	E3
C312	B6	D1	R112	G3	B1	R344	G6	D4
C316	B6	D1	R114	G6	B1	R412	D2	E1
C324	D6	D2	R116	G5	B1	R414	D2	E1
C326	D6	D2	R118	F6	B2	R416	D2	E1
C336	D5	D3	R122	F5	B2	R417	D2	E1
C337	H5	D3	R124	F6	B2	R418	D3	F1
C338	D1	D3	R126	F6	B2	R420	D2	E2
C412	D1	E1	R128	F5	B2	R421	D2	E2
C418	D3	E1	R130	F4	B3	R422	D2	E2
C422	C3	E2	R131	G1	B3	R423	D3	E2
C536	G3	F3	R132	F1	B3	R424	C2	E3
C646	F3	G4	R133	F1	B3	R425	C2	E2
CT25	E2	H2	R134	G2	B5	R426	B2	F3
CR022	H1	A3	R135	F5	B3	R430	B2	E3
CR024	H1	A3	R136	F5	B3	R432	C2	E3
CR042	G2	A4	R137	H5	B3	R433	C3	E3
CR128	G5	B2	R138	E4	C3	R434	C2	E3
CR136	F5	B3	R139	E5	C3	R435	C2	E3
CR138	F5	B3	R142	F2	B4	R436	B3	E3
CR226	D5	C2	R211	B6	C1	R448	G5	E4
CR324	C5	D2	R212	C5	C1	R510	E3	F1
CR548	G4	F4	R216	A5	C1	R514	E2	F1
CR652	G4	G3	R219	B6	C1	R534	G4	F3
CR744	E3	H4	R220	H5	C2	R538	G3	F3
CR936	E2	J3	R221	D5	C2	R542	G3	F4
CR938	F2	J3	R222	A5	C2	R636	G4	G3
			R223	D5	C2	R638	G4	G3
J028	H1	A3	R224	D5	C2	R642	F3	G4
J120	A3	A2	R226	D5	C2	R644	G4	G4
J152	H5	B3	R226	C6	C2	R646	G4	G4
J626	E1	G3	R227	C6	C2	R722	E4	H2
J928	B2	J3	R228	D5	C2	R732	E4	H2
			R229	C6	C2	R732	E2	H3
L223	G5	C2	R230	G2	C3	R734	E2	H3
L226	B5	C2	R232	F2	C3	R744	E4	H4
L314	B6	D1	R234	C5	C3	R826	E4	I3
			R235	C5	C3	R836	E5	I4
LR226	A6	D2	R236	D5	C3	R838	D4	I4
LR339	C1	E3	R238	C5	D3	R938	F2	J3
			R242	F2	C4	R942	D4	J4
P434	B2	E3	R246	C3	C4			
P438	B2	E3	R248	C3	C4	TP238	C5	C3
P946	E5	I4	R310	B6	D1	TP334	E6	D3
			R311	B6	D1	TP536	E3	F2
Q036	G2	A3	R312	B6	D1	TP546	H4	F4
Q132	G6	B2	R313	D4	D1	TP548	H4	F4
Q136	G2	B3	R314	D4	D1			
Q138	F2	C3	R315	E2	D1	U126	B5	C1
Q228	C6	C2	R316	D2	D1	U128	G5	B2
Q236	D5	C3	R317	E2	D1	U228B	C6	C3
Q238	C5	C3	R320	C6	D2	U422	C2	E2

P/O A46 ASSY ALSO SHOWN ON ◇3 ◇4 & ◇5

P/O A66 ASSY — PLUG-IN INTERFACE ◇2

P120	A3	B2	P120	E6	D2	P120	H2	B2

P/O A66 ASSY - SEE FIG. 7-37



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REV APR 1982

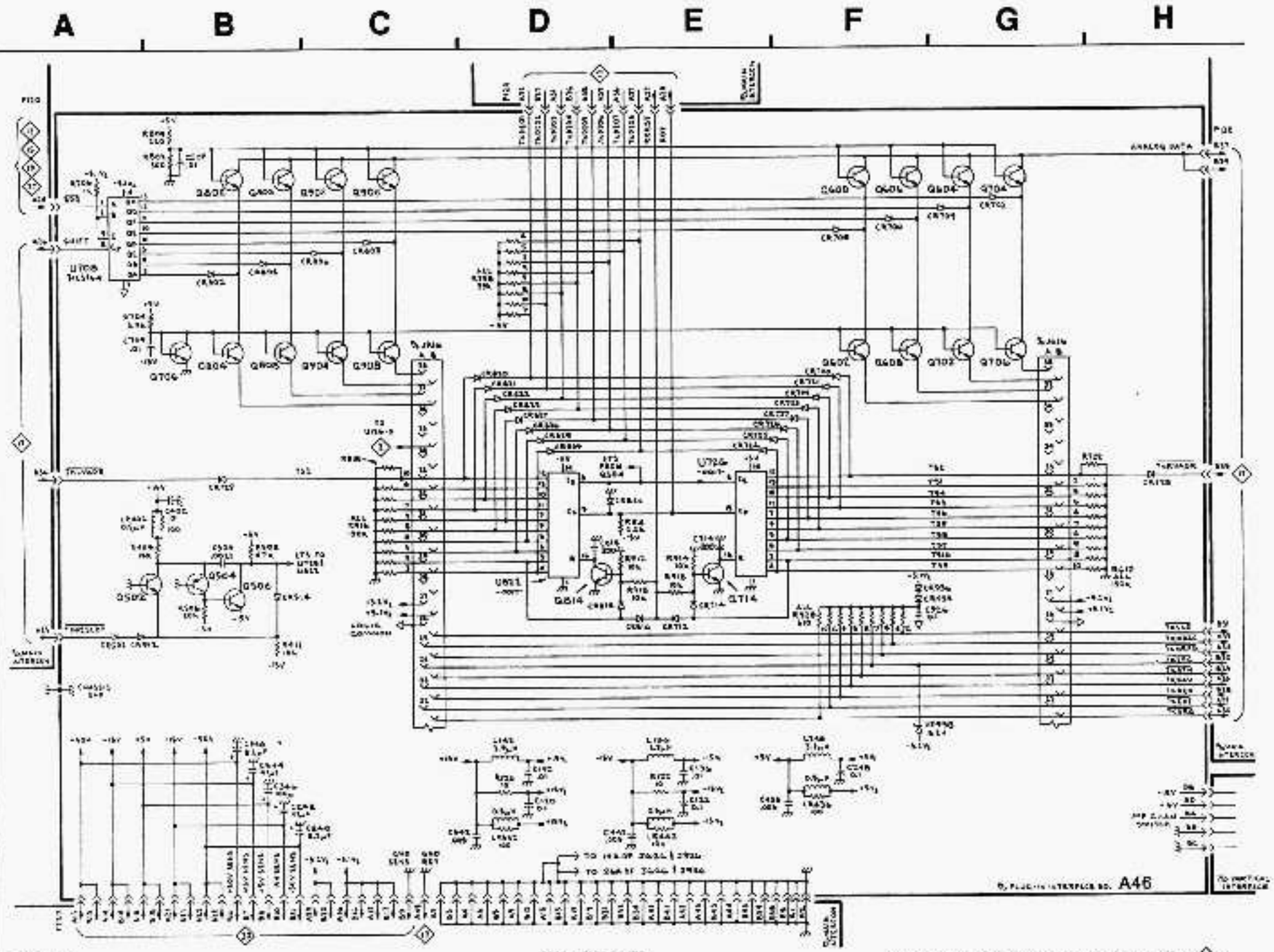
(SN B100635 & Below) PLUG-IN INTERFACE 2

PLUG-IN INTERFACE
(SN B100635 & Below)
2

P/O A46 ASSY (SN B100837 & up) — READOUT/Tk ACQUISITION ◇3

Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location
C120	D5	B2	L136	E5	B3
C122	E5	B2	L142	D5	B3
C136	E6	B3	L248	F5	C4
C142	D5	B4			
C248	B5	D4	LR402	B3	E0
C344	B5	D4	LR438	F5	E3
C346	B5	E4	LR442	E5	E3
C403	B3	E0	LR542	D5	E3
C438	F5				
C442	E5	E3	Q502	A4	F0
C504	B4	F0	Q504	B4	F0
C542	D5	F3	Q506	B4	F0
C704	A2		Q600	F1	G0
C714	E4	H1	Q602	F2	G0
C814	D4	I1	Q604	G1	H0
C848	C5	I4	Q606	F1	H0
C902	B1		Q608	F2	H0
C926	G4	J2	Q702	G2	H0
C948	B5	J4	Q704	G1	H0
			Q706	B3	H0
CR502	A4	F1	Q714	E4	I0
CR512	A4	F1	Q804	B2	I0
CR514	B4	F1	Q806	B1	J0
CR702	G2	H0	Q808	B2	J0
CR704	G2	H0	Q814	D4	I1
CR705	F2	H0	Q902	B1	J0
CR712	E4	H1	Q904	C2	J0
CR714	E4	H1	Q906	C1	J0
CR720	F3	H1	Q908	C2	J0
CR721	F3	H2			
CR722	F3	H2	R120	D5	B2
CR723	F3	H2	R404	A4	E1
CR724	F3	H2	R411	B4	E1
CR725	F3	H2	R506	B4	F1
CR726	F3	H2	R508	B4	F1
CR729	B3	H2	R812	H4	G1
CR802	B2	I0	R704	A2	H0
CR804	B2	I0	R706	A1	H0
CR808	B2	I0	R732	H3	H1
CR809	B2	I0	R738	D2	I2
CR814	E5	I1	R802	B1	I0
CR816	E4	I1	R804	B1	I0
CR818	D4	I1	R814	E4	I1
CR820	D2	I2	R816	□	I1
CR821	D2	I2	R912	E4	
CR822	D2	I2	R914	E4	
CR823	D2	I2	R918	C4	J1
CR824	D2	I2	R918	E4	
CR825	D2	I2	R926	F4	J2
CR826	D2	I2			
CR827	D2	I2	U706	A2	I0
CR834	G4	J3	U728	E3	H2
CR835	G4	J3	U822	D4	I2
J526	C3	G2	VR938	G5	I3
J526	G3	G2			

P/O A46 ASSY ALSO SHOWN ON ◇2 ◇5 & ◇6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READOUT/7k ACQUISITION

P/O A46 ASSY (SN B100838 & below) — READOUT/7K ACQUISITION ◇3

Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location
C133	D5	B3	CR826	C3	I2	R546C	D2	F4
C142	E5	B4	CR827	C3	I2	R546D	D2	F4
C338	D5	D3	CR828	C3	I2	R546E	D2	F4
C410	D3	E1	CR829	D4	I3	R546F	D2	F4
C438	F5	E3	CR832	E4	I3	R546G	D2	F4
C506	B4	F1	CR834	E4	I3	R604	G3	G0
C508	A2	F0	CR906	F4	J0	R610	B4	G1
C522	C5	F2	CR908	F4	J0	R616	G4	G1
C524	E5	F2				R618	G4	G1
C532	E5	F3	J526	G2	G1	R625	G4	G2
C542	F5	F4	J526	C2	J1	R626	G4	G2
C728	E4	H2				R629	G3	G2
C800	B1	I0	L339	D6	D3	R702	B1	H0
C822	D4	I2	L448	F5	E4	R712	G3	H1
C826	B5	I3	L526	E5	F2	R714	G3	H1
C828	B5	I2				R716	G3	H1
C905	C1	J0	LR410	A3	E1	R718	G3	H1
CR16	F4	J1	LR428	F5	E2	R736	D3	H3
C916	B5	J1	LR524	D5	F2	R748	E4	H4
C938	B5	J3	LR534	E5	F3	R800	B1	I0
C946	B5	J4				R812	C3	I1
						R814	A1	I1
CR503	B4	F1	Q409	A4	F0	R816	A2	I1
CR502	A4	G1	Q502	B4	F1	R818A	C3	I1
CR514	G3	G1	Q504	B4	F1	R818B	C3	I1
CR516	B3	G1	Q602	G1	G0	R818C	C3	I1
CR702	A4	H1	Q604	G2	G0	R818D	C3	I1
CR703	F2	H0	Q605	F1	G0	R818E	C3	I1
CR705	F2	H0	Q606	F2	G0	R818F	C3	I1
CR708	G1	H0	Q608	F2	G0	R818G	C3	I1
CR712	F3	H1	Q700	F1	H0	R818H	C3	I1
CR714	F3	H1	Q702	G2	H0	R818I	C3	I1
CR716	F3	H1	Q704	G1	H0	R832	D4	I3
CR718	F3	H1	Q738	E4	I3	R834	E4	I3
CR722	E3	H2	Q806	B2	I0	R842	E4	I3
CR724	E3	H2	Q807	B1	I0	R920A	F4	J2
CR725	E3	H2	Q808	B2	I0	R920B	F4	J2
CR726	E3	H2	Q836	D4	I3	R920C	F4	J2
CR729	E4	I3	Q901	B1	J0	R920D	F4	J2
CR802	G1	H0	Q902	B2	J0	R920E	F4	J2
CR804	C2	I0	Q903	C1	J0	R920F	F4	J2
CR805	B2	I0	Q904	C2	J0	R920G	F4	J2
CR838	B2	I0				R920H	F4	J2
CR859	B2	I0	R249	E5	C4	R920I	F4	J2
CR814	D3	I1	R342	D5	D4			
CR815	D3	I1	R402	A4	E1	U728	E3	H2
CR818	D3	I1	R512	B4	F1	U812	A2	I1
CR819	D3	I1	R513	B4	F1	U832	D3	I2
CR822	D3	I2	R545A	D2	F4			
CR824	D3	I2	R545B	D2	F4	VR919	F5	J1

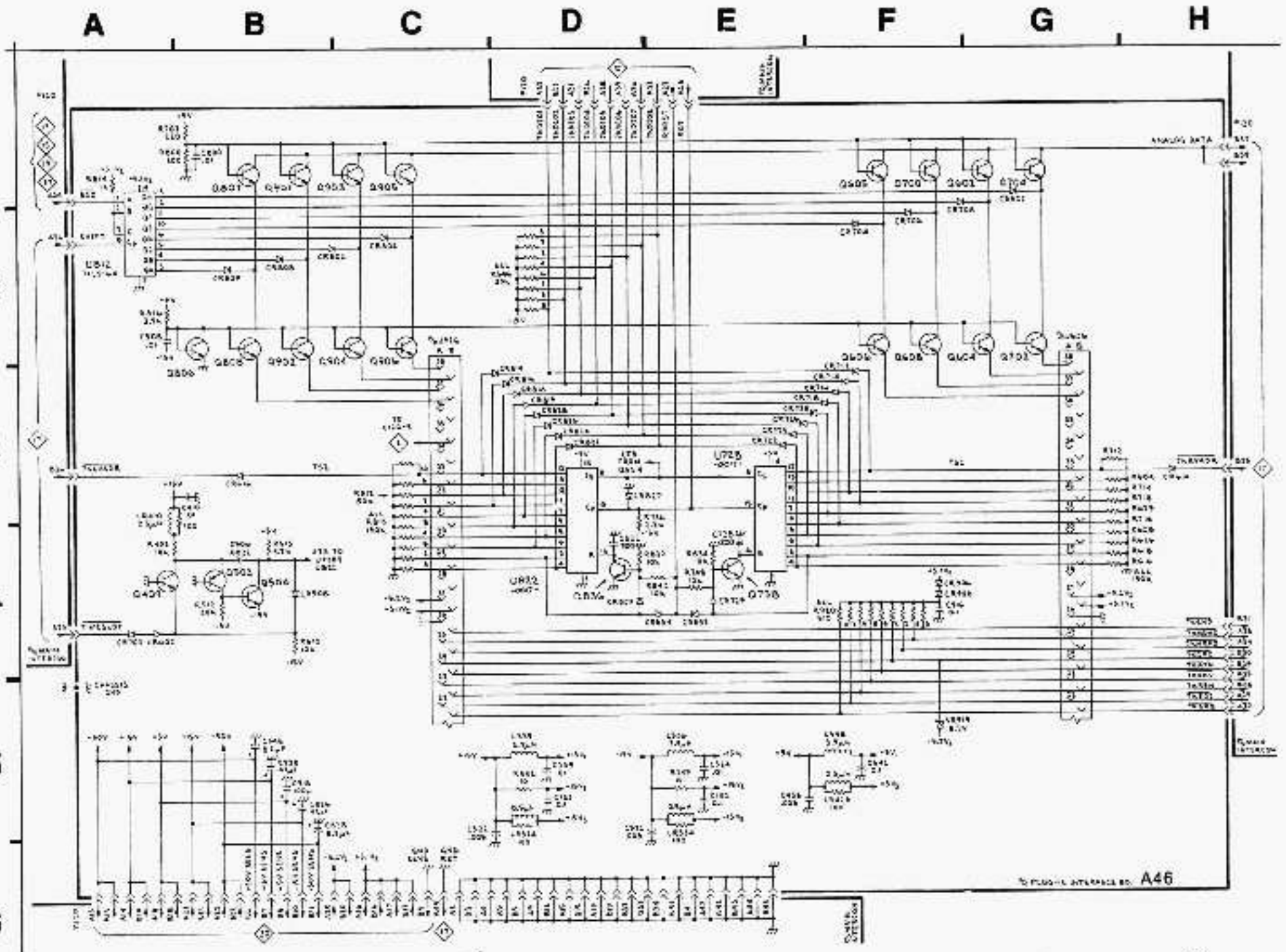
P/O A46 ASSY ALSO SHOWN ON ◇2 , ◇5 & ◇6

P/O A68 ASSY — READOUT/7K ACQUISITION ◇3

P120 P120	A1 A6	B2 B2	P120 P120	D1 H1	B2 B2	—	—	—

P/O A68 ASSY - SEE FIG. 7-37

(SN B-0836 & BELOW)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Q608
Q902
Q904
Q906
Q608
Q704
U725
U832
Q836
Q736
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TO PLUG-IN INTERFACE BD. A46
T912AD
(SN B100396 & below) READOUT/TK ACQUISITION 3

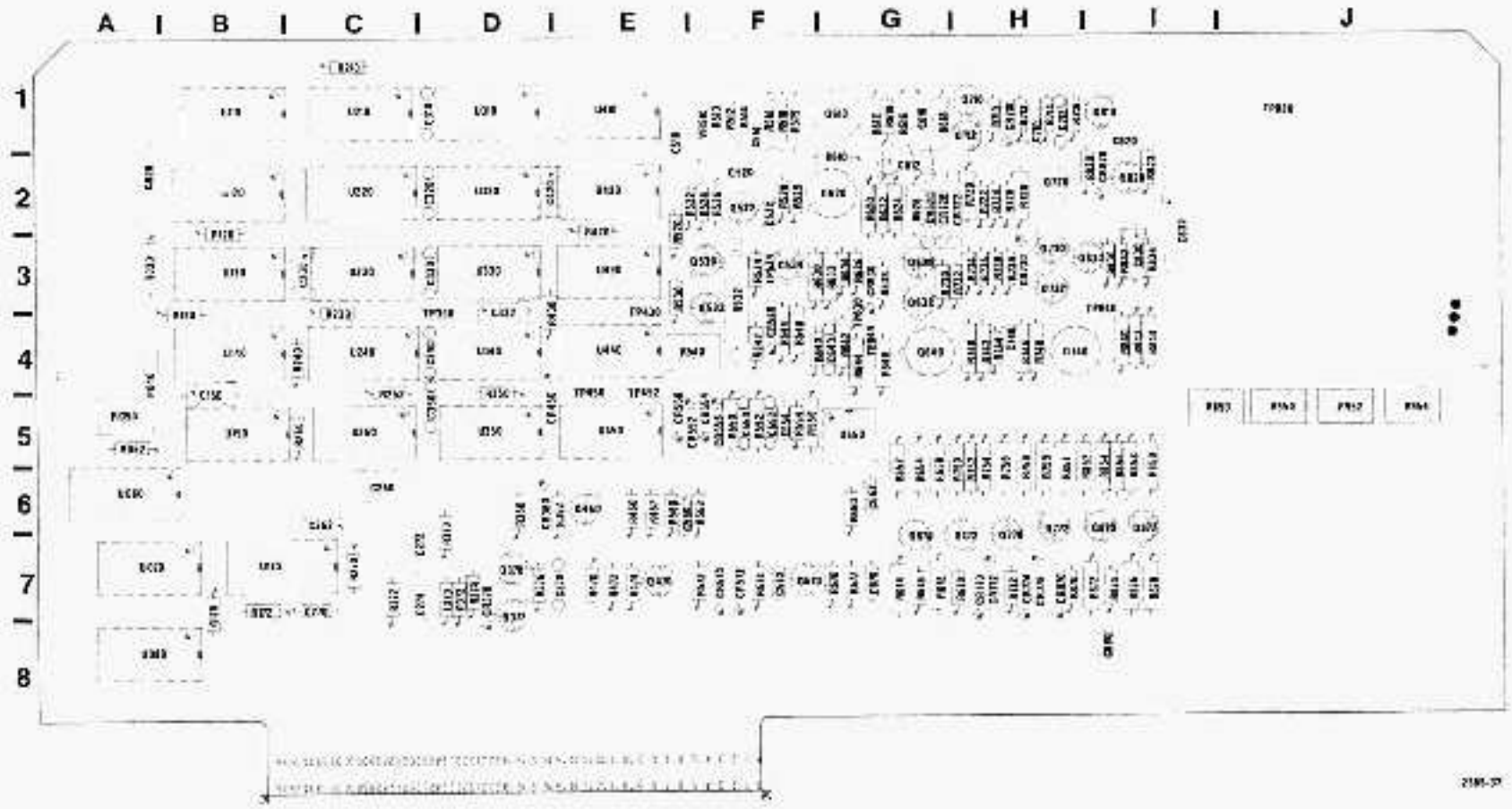
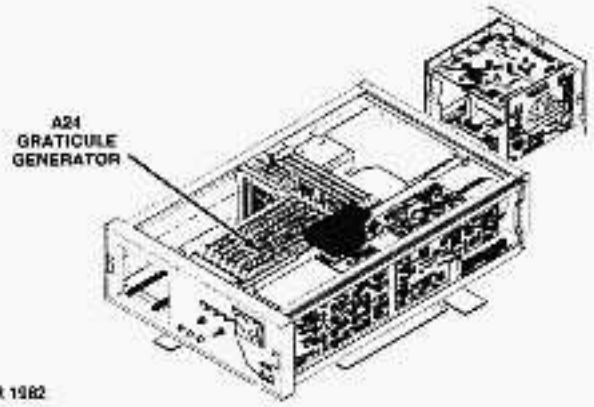


Fig. 7-5. The Graticule Generator circuit board, assembly A24.



COMPONENT NUMBER EXAMPLE

A23 A2 R1234

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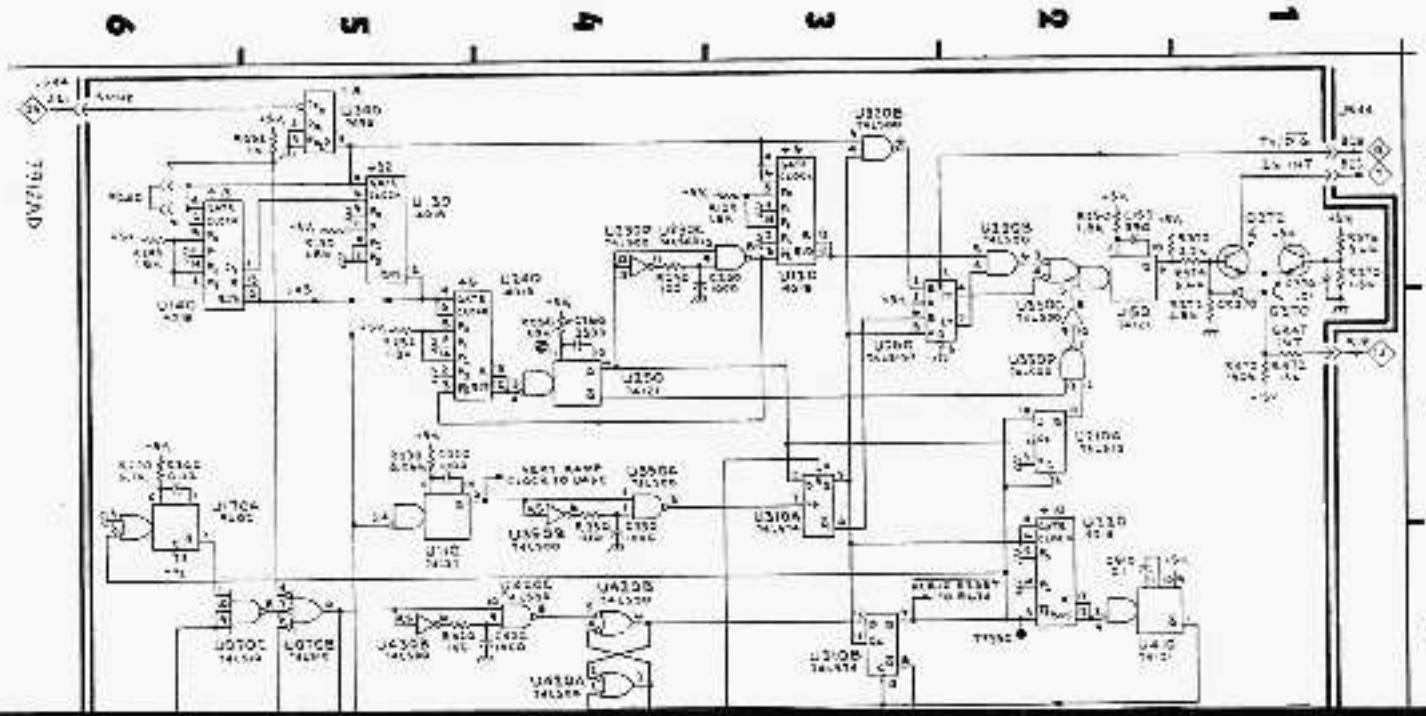
P/O A24 ASSY — GRATICULE GENERATOR ◇4

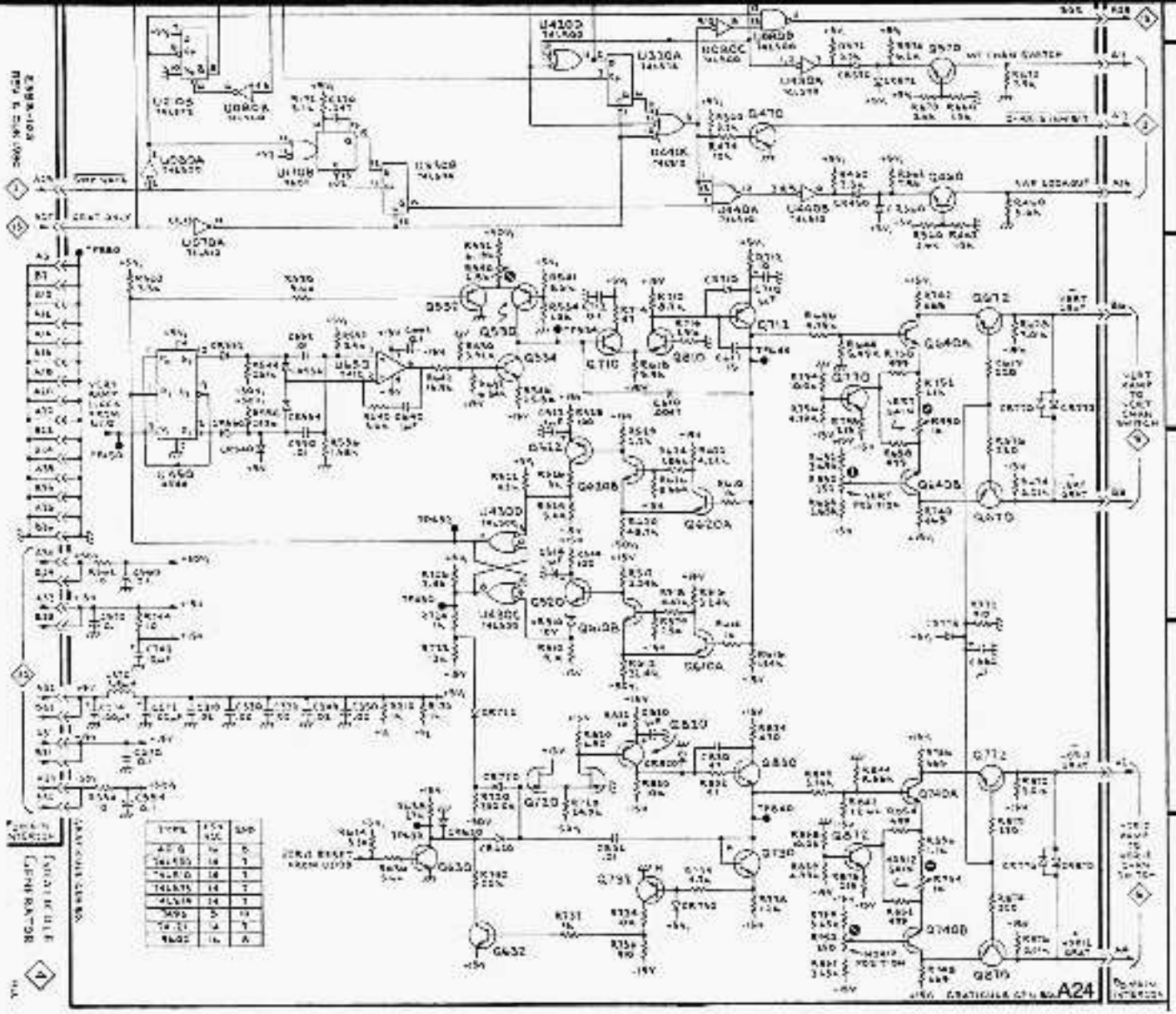
Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location
C020	B5	A2	Q610A	G3	G1	R554	G5	F5	R851	H2	H8
C150	A2	B5	Q610B	F3	G1	R558	F5	F5	R852	H2	I8
C230	A3	C3	Q620A	F3	G2	R560	D2	E6	R854	H2	I8
C280	B4	C8	Q620B	F3	G2	R562	F6	F6	R856	H2	I8
C282	B6	C8	Q630	H4	G3	R572	D2	F7	R858	H2	I8
C370	D5	C7	Q632	H4	G3	R574	D2	F7	R859	H2	I8
C372	G6	C7	Q640A	E2	G4	R578	F3	F1	R870	H1	I7
C374	G6	C7	Q640B	F2	G4	R579	F3	G7	R872	G1	I7
C510	G5	D1	Q670	F1	G7	R610	F3	G1	R874	H1	I7
C520	G6	D2	Q672	E1	G7	R612	G3	G1	R876	H1	I7
C530	G5	D3	Q710	E3	H1	R614	G2	G1	R878	H2	I7
C532	B4	D3	Q712	E3	H1	R616	G3	G1	R950	E2	J5
C540	G5	D4	Q720	G4	H2	R618	E3	G1	R952	H2	J6
C550	G5	D5	Q720	H3	G3	R620	F3	G2	R954	H2	J5
C570	A1	D7	Q732	H3	H3	R622	F3	G2			
C610	C2	F1	Q740A	G2	H4	R624	F3	G2	TP330	C2	D3
C614	F4	F1	Q740B	H2	H4	R626	F3	G2	TP430	F4	E4
C622	E4	F2	Q770	E2	H7	R630	E4	G3	TP452	F4	E6
C650	F5	F5	Q772	G1	H7	R632	E4	G3	TP534	E4	F5
C652	E6	F5	Q810	E3	I1	R634	H5	G3	TP630	H4	G3
C654	G6	F5	Q820	G3	I2	R636	H4	G3	TP644	E3	G4
C660	F6	F6	Q830	G3	I3	R638	G4	G3	TP840	G3	I3
C670	F6	F7	Q870	H1	I7	R640	E5	G4	TP880	E6	J1
C610	E3	G1	Q872	H2	I7	R642	E4	G4			
C612	E3	G1				R644	E2	G4	U060	B3	A6
C640	E4	G4	R030	B5	A3	R648	E2	G4	U070A	D5	A7
C662	E4	G6	R050	B4	A5	R652	F2	G6	U070B	C5	A7
C670	G4	G7	R052	A5	A5	R654	F2	G6	U070C	C5	A7
C710	E3	H1	R120	A3	B2	R658	F2	G6	U080A	D6	D6
C712	E3	H1	R130	A6	B3	R660	F2	G6	U080B	D5	A8
C740	G6	H4	R170	G4	B7	R660	D2	G6	U080C	C3	A8
C820	G3	I2	R172	D6	B7	R670	D2	G7	U080D	C3	A8
C830	G3	I3	R210	G5	C1	R672	D1	G7	U110	B6	B1
C832	H3	I3	R230	A4	C3	R674	F1	G7	U120	A3	B2
C880	G1	I8	R240	A6	C4	R676	F1	G7	U130	A5	B3
			R250	A2	C5	R678	E1	G7	U140	A6	B4
CR380	D2	D6	R252	B5	C5	R679	E1	H7	U150	A2	B5
CR370	A1	D7	R270	B6	C7	R710	E3	H1	U170A	B6	B7
CR450	D2	E5	R272	B1	C7	R712	E3	H1	U170B	D5	B7
CR540	F5	F4	R350	B4	D5	R714	E3	H1	U210A	B2	C1
CR550	E5	F5	R360	D4	D5	R718	E3	H1	U210B	D6	C1
CR552	E5	F6	R362	D2	D6	R720	G4	H2	U220	C2	C2
CR554	E5	F6	R370	A1	D7	R722	G4	H2	U230B	A2	C3
CR565	E5	F5	R372	A1	D7	R724	F4	H2	U230C	A3	C3
CR570	D2	F7	R374	A1	D7	R726	F4	H2	U230D	A4	C3
CR572	D2	F7	R376	A1	D7	R728	G4	H2	U240	A4	C4
CR620	H4	G2	R420	C5	E2	R730	H4	G3	U250	B4	C5
CR630	H4	G3	R430	D2	E3	R732	H4	H3	U310A	B3	D1
CR710	E3	H1	R450	D1	E5	R734	H3	H3	U310B	C3	D1
CR720	G4	H2	R452	D2	E5	R736	H3	H3	U320B	A3	D2
CR722	G4	H2	R470	B1	E7	R738	H3	H3	U330A	D3	D1
CR730	H3	H3	R472	B1	E7	R739	H3	H3	U330B	D4	D1
CR770	E1	H7	R474	D4	E7	R740	F2	H4	U340	A5	D4
CR772	E1	H7	R510	G4	F1	R742	E2	H4	U350A	B4	D5
CR774	G2	H7	R512	F3	F1	R744	F6	H6	U350B	B4	D5
CR776	H1	H7	R514	F4	F1	R748	G2	H6	U350C	B2	D6
CR820	G3	I2	R516	F3	F1	R748	H2	H6	U350D	B3	D6
CR870	H1	I7	R518	F3	F1	R750	E2	H6	U410	C2	E1
			R520	E6	F2	R752	E2	H6	U420A	C4	E2
L370	G6	D7	R522	F4	F2	R754	E2	H6	U420B	C4	E2
			R524	F4	F2	R756	E2	H6	U420C	C4	E2
P040	A6	A4	R526	F4	F2	R758	E2	H6	U420D	C4	E2
			R528	F4	F2	R759	H2	H6	U430A	D2	E3
Q370	A1	D7	R529	F3	F2	R772	F1	H7	U430B	C5	E3
Q372	A1	D7	R530	E5	E3	R820	G4	I2	U430C	F4	E3
Q460	D2	E6	R532	E4	F3	R822	G3	I2	U430D	F4	E3
Q470	D3	E7	R534	E4	F3	R830	G3	I3	U440A	D3	E4
Q520	F4	F2	R540	E4	F4	R832	G3	I3	U440B	D2	E4
Q522	F4	F2	R542	E4	F4	R834	G3	I3	U440C	D3	E4
Q530	E4	F3	R544	E5	F4	R840	G2	I4	U450	E6	F2
Q532	E4	F3	R546	E4	F4	R842	G2	I4	U850	E5	G5
Q534	E4	F3	R550	E6	F5	R844	G2	I4			
Q570	D2	F7	R552	E5	F5	R850	F2	I5	VR510	F4	F1

P/O A68 ASSY — GRATICULE GENERATOR ◇4

J544	A1	F4	J546	A6	F4	J544	B1	F4	J544	D6	F4

P/O A68 ASSY - SEE FIG. 7-37


6
5
4
3
2
1
A
B
C


D E F G H
A24
GRATICULE GENERATOR
BOTTOM OF 4

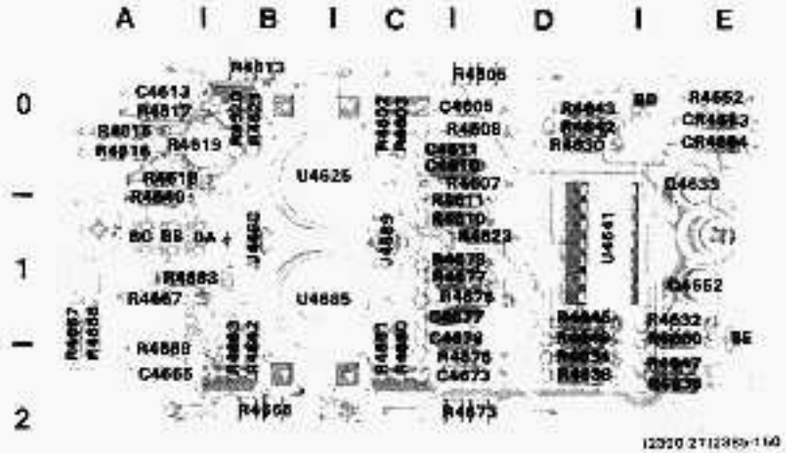


Fig 7-6a. The vertical interface circuit board, assembly A44

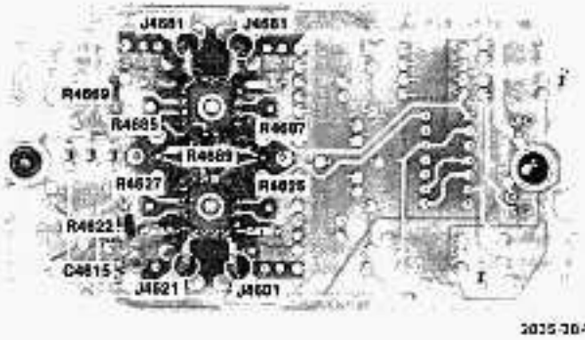
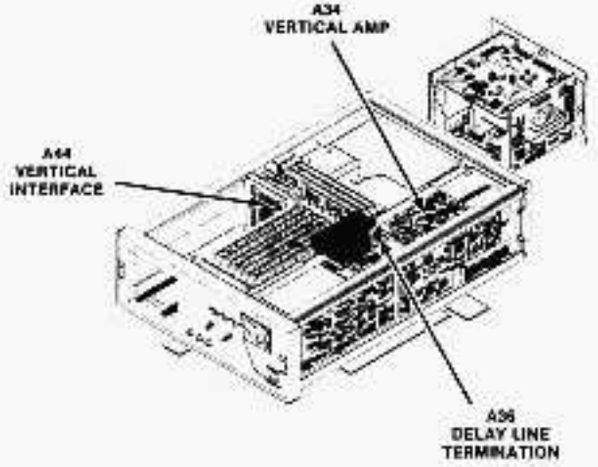


Fig 7-6b. Components on the back of the vertical interface circuit board, assembly A44



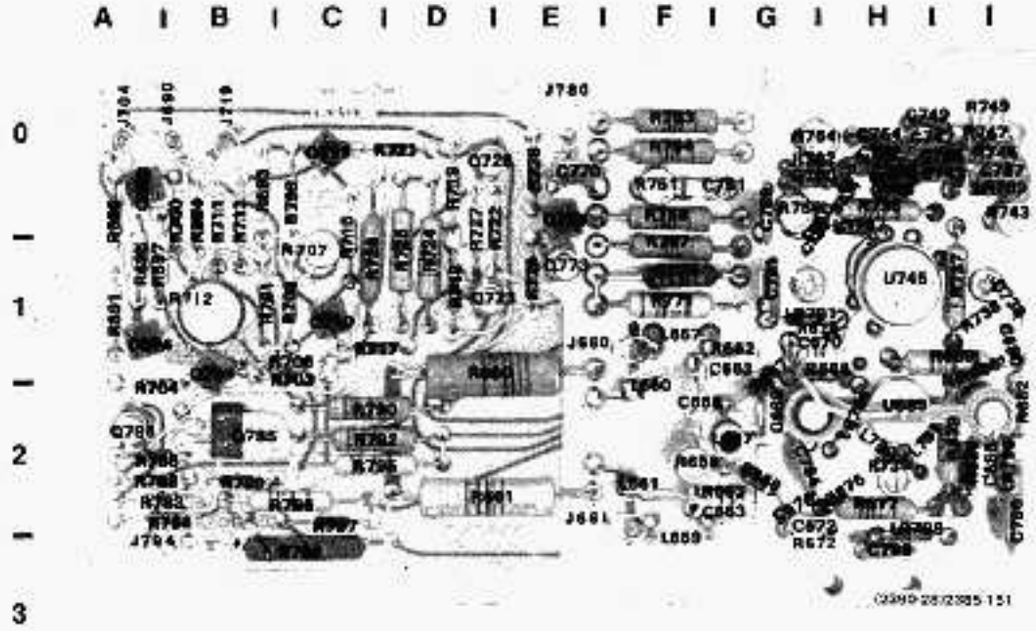


Fig. 7-7. The vertical amplifier circuit board, assembly A34

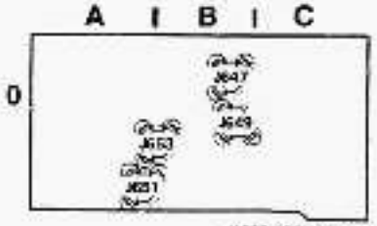


Fig 7-8. The delay line termination circuit board, assembly A3

COMPONENT NUMBER EXAMPLE

Circuit Number
A23 A2 R3234

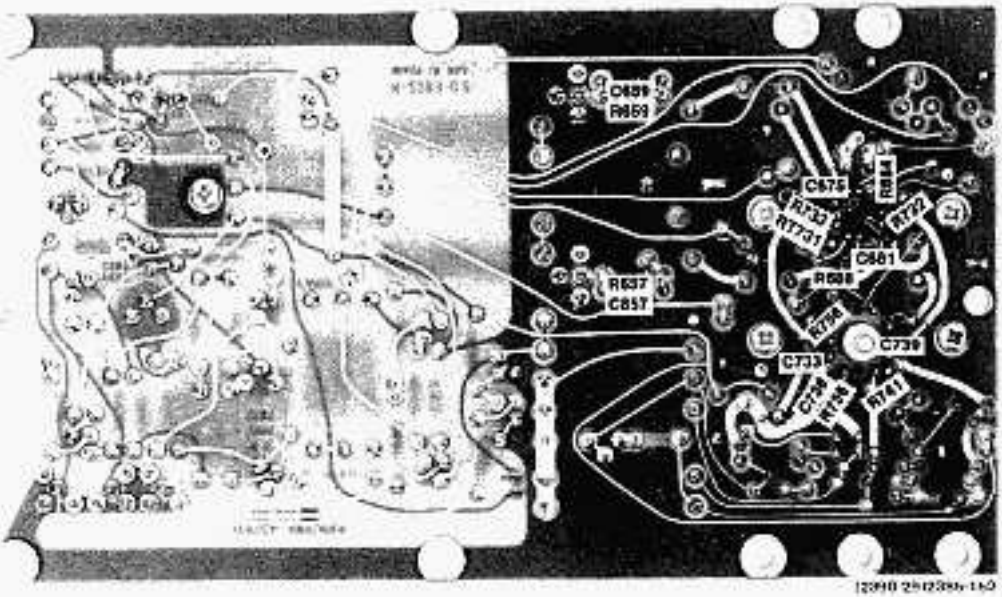


Fig. 7-9. Components on the back of the vertical amplifier circuit board, assembly A34

P/O A34 ASSY			VERTICAL AMPLIFIER 5		
Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location
C657	D3	†	R681	E4	†
C659	D4	†	R688	F4	†
C675	E3	†	R732	F4	†
C681	E4	†	R733	F3	†
C733	F3	†	R736	G3	†
C736	G3	†	R741	G4	†
			R756	G4	†
R657	D3	†			
R659	D4	†	RT731	F3	†

A34 ASSY			VERTICAL AMPLIFIER 5		
DL5300	D3	CHASSIS	J649	C4	B0
			J651	D3	A0
J647	C3	B0	J653	D4	A0

P/O A44 ASSY			VERTICAL AMPLIFIER 5		
C4515	B2	†	R4622	B2	†
			R4625	C1	†
J4601	A1	†	R4627	C2	†
J4621	A2	†	R4689	B5	†
J4651	A5	†	R4695	C5	†
J4681	A6	†	R4697	C6	†
			R4699	C3	†

NOTE: † Back of board.

P/O A24 ASSY — VERTICAL AMPLIFIER (5)

Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location
C653	D3	F2	P730	H5	E0	R717	E5	C1
C662	C3	G1	P5205	H4	CHASSIS	R718	E5	D1
C663	E4	G2				R719	E5	D0
C670	E3	G1	Q273	E5	D1	R721	E6	D5
C672	E4	G2	Q694	D6	A1	R722	E6	D0
C675	E3	G2	Q698	D5	A0	R724	E5	D1
C682	E4	I1	Q706	D6	B1	R725	E5	D1
C685	E4	I2	Q710	E5	C1	R726	E5	D1
C689	F4	G2	Q716	E6	C0	R727	E5	D1
C734	F3	G2	Q728	E5	D0	R730	F3	H2
C736	F4	I1	Q773	G6	E1	R734	F3	G2
C738	F4	I1	Q776	G6	E0	R735	F3	H0
C739	F5	I1	Q785	G5	B2	R737	F3	I1
C743	G4	H0	Q786	G5	A2	R738	F4	I1
C745	G4	H0				R739	F4	I1
C747	G5	H0	R658	D3	F2	R743	G3	I0
C749	G5	H0	R660	D3	D2	R745	G4	I0
C751	G6	G0	R661	D4	D2	U747	G5	I0
C758	H4	I0	R662	E3	G1	R749	G5	I0
C760	H4	H0	R663	E4	G2	R751	G5	F0
C762	H5	H0	R667	E3	G1	R753	G5	F0
C764	H5	H0	R668	E3	G2	R754	G5	F0
C770	G6	E0	R670	E3	G1	R758	G4	G0
C787	G1	I0	R672	E4	G2	R760	G4	G0
C789	F1	G0	R676	E3	H2	R762	G5	G0
C791	F1	G1	R677	E3	H2	R764	G3	G0
C794	E1	G2	R679	E3	I2	R767	G5	F1
C796	F1	I2	R680	E4	I1	R768	H5	F0
C798	F1	H1	R682	E4	I2	R770	G6	F1
CR5205	H4	CHASSIS	R685	E4	I2	R771	G6	F1
			R686	F4	H1	R775	G6	E1
J650	D3	F1	R689	F4	I1	R778	G6	E0
J651	D4	F2	R691	D6	A1	R783	G5	B2
J690	D6	B0	R693	D6	B0	R784	G5	B2
J704	D6	A0	R694	D6	B0	R785	G5	B2
J716	D3	B0	R695	D5	A1	R786	G6	B2
J794	F1	A1	R697	D5	A1	R789	G5	B2
			R698	D5	A0	R790	E1	D2
L680	D3	F2	R700	D3	B0	R792	E1	D2
L681	D4	F2	R701	D5	B1	R795	E1	D2
L687	E3	G2	R703	D5	C1	R796	F1	C2
			R704	D6	B2	R797	F1	C2
LR787	D2	H0	R706	D5	C1	R799	G1	C2
LR789	E2	I0	R707	E5	C1	RS205	H3	CHASSIS
LR791	E2	H1	R708	E5	C1			
LR794	E2	H2	R709	E6	C0	TP785	G5	B2
LR795	F2	I2	R711	E5	B0			
LR796	F2	H2	R712	E5	B1			
LR5200	H3	CHASSIS	R713	E6	B0	U685	F3	H2
LR5201	H4	CHASSIS	R715	E5	C1	U745	G3	H1

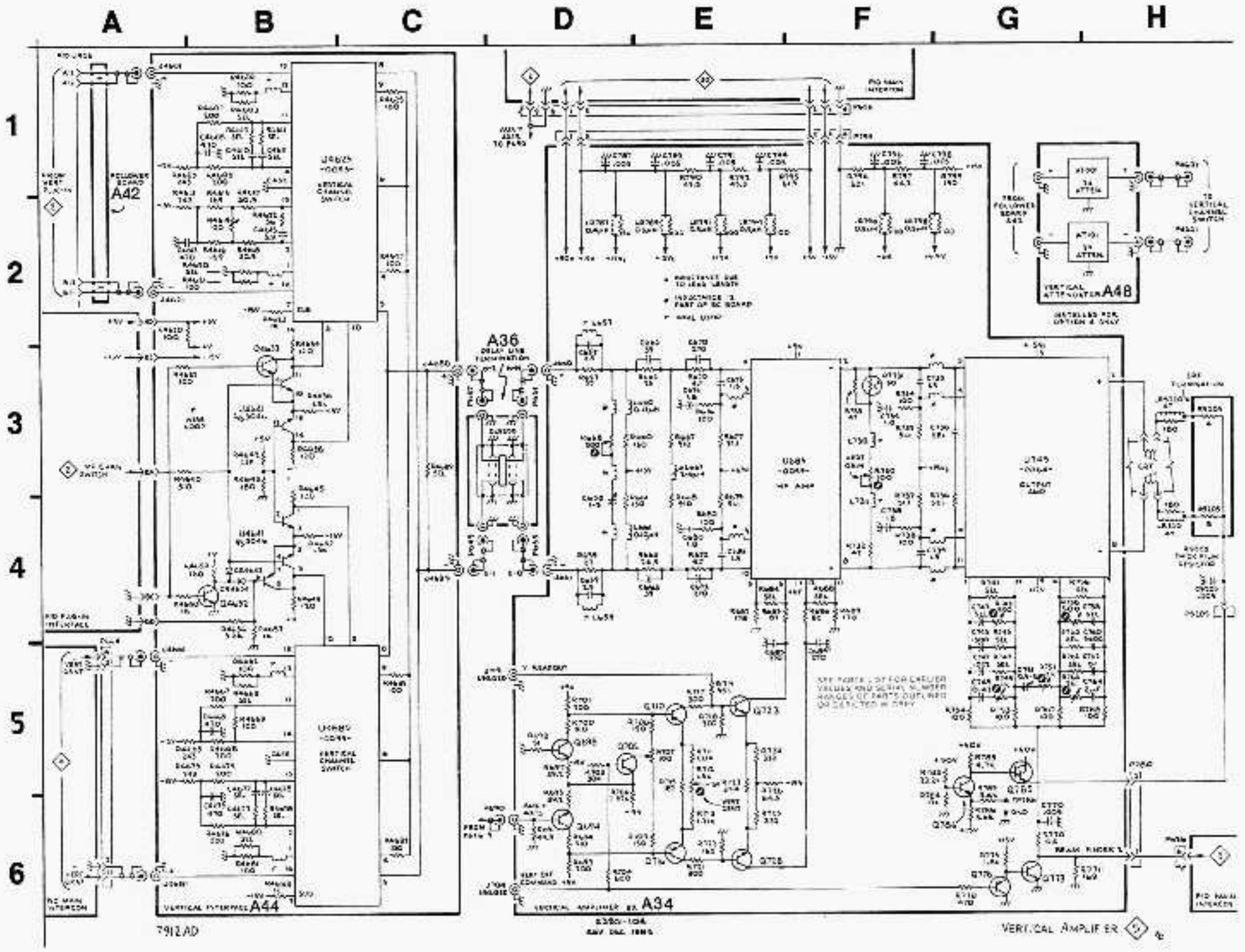
P/O A44 ASSY — VERTICAL AMPLIFIER (5)

C4605	B1	D0	R4608	B1	D0	R4649	B4	D2
C4610	B1	D0	R4610	B1	D1	R4650	A4	E1
C4611	B1	D0	R4611	B1	D1	R4652	B4	E0
C4613	B?	A0	R4613	A2	B0	R4656	B4	A1
C4665	B5	A2	R4615	B2	A0	R4657	B4	A1
C4673	B5	D2	R4616	B2	A0	R4662	B5	B2
C4677	B5	D1	R4617	B2	A0	R4663	B5	B2
C4678	B5	D1	R4618	B2	A0	R4665	B5	A2
			R4619	B2	B0	R4667	B5	A1
CR4643	B4	E0	R4620	B2	B0	R4668	B5	A2
CR4654	B4	E0	R4621	B2	B0	R4673	B5	D2
			R4623	B2	D1	R4675	B5	D2
J4636	C3	B1	R4630	A2	D0	R4676	B6	D1
J4639	C4	C1	R4632	A3	E1	R4677	B6	D1
			R4634	B2	D2	R4678	B6	D1
Q4633	B3	E1	R4636	B3	E2	R4680	B6	C2
Q4652	B4	E1	R4638	B3	D2	R4681	B6	C2
			R4640	A3	A0	R4683	B6	A1
R4602	B1	C0	R4642	B3	D0			
R4603	B1	C0	R4643	B3	D0	U4625	B1	B0
R4606	A1	D0	R4645	B3	D1	U4641	B3	D1
R4607	B1	D0	R4647	B4	E2	U4685	B5	B1

P/O A68 ASSY — VERTICAL AMPLIFIER (5)

P625	F1	G2	P626	H6	G2	P864	A5	G6

P/O A68 ASSY - SEE FIG. 7-37


A
B
C
D
E
F
G
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1
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3
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5
6
A42
A36
A48
A44
A34
7912AD
VERTICAL AMPLIFIER

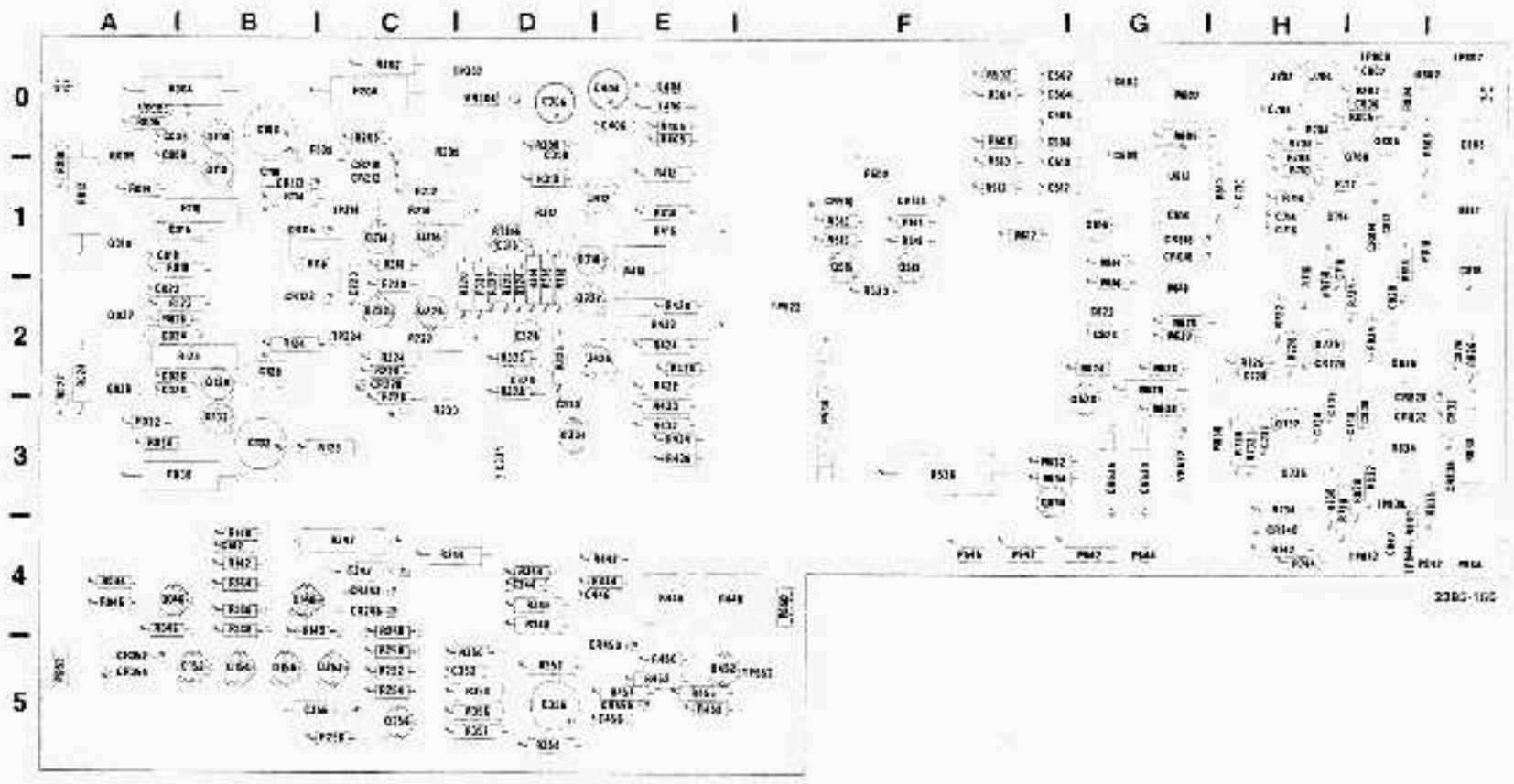


Fig. 7-10. The Horizontal and Z-Axis Amplifier circuit board, assembly A40 (SN B100767 & up).

COMPONENT NUMBER EXAMPLE

P/O A40 ASSY (SN B100767 & up)

HORIZONTAL AMPLIFIER (6)

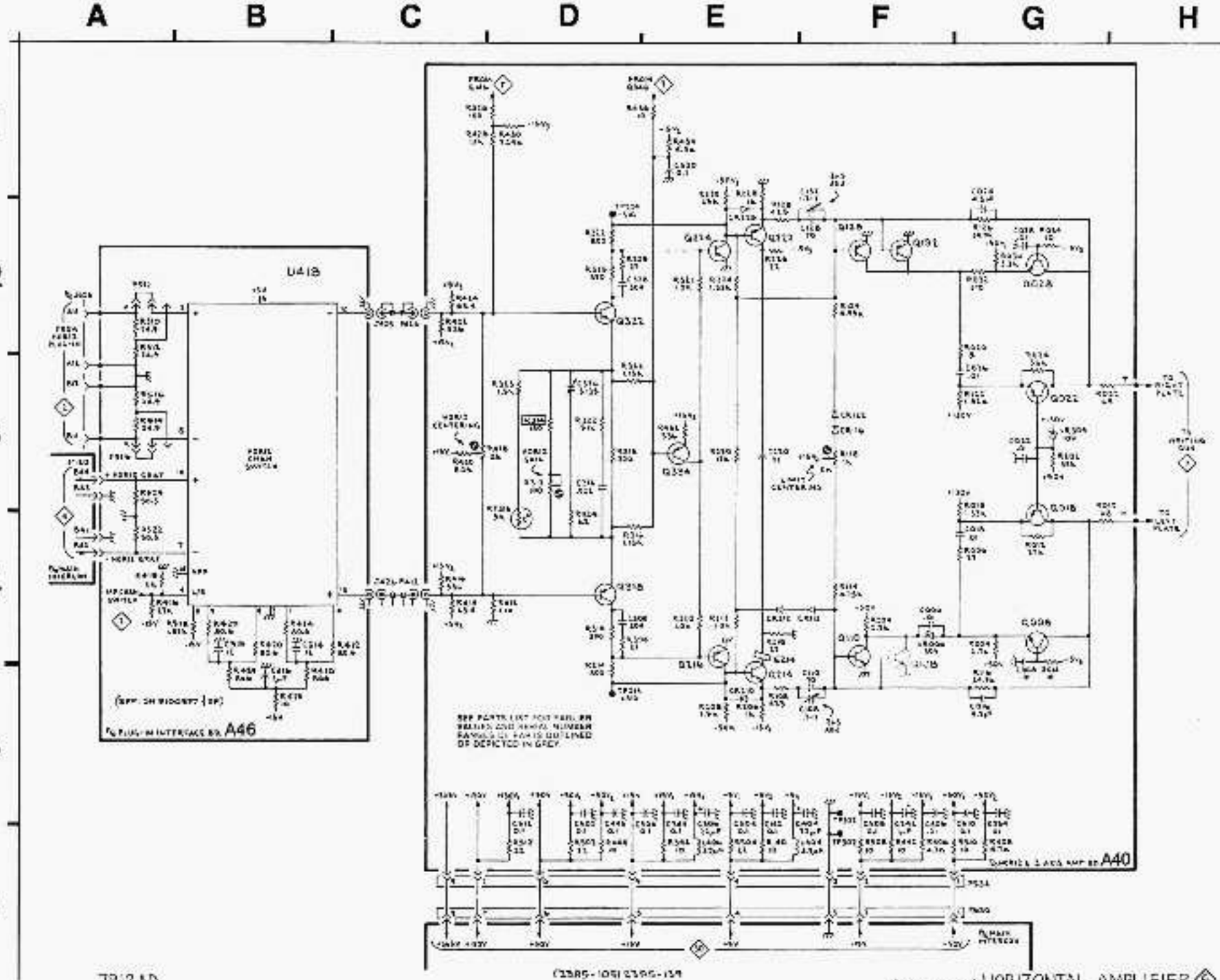
Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location
C006	F4	A0	Q008	G4	A0	R230	E1	C3
C008	G5	A0	Q018	G3	A1	R308	D4	D0
C016	G5	A1	Q022	G3	A2	R310	D4	D1
C022	G3	A2	Q028	G2	A2	R312	D3	D1
C024	G1	A2	Q108	F4	B0	R314	D3	D1
C026	G3	A2	Q110	F4	B2	R316	D4	D1
C028	G2	A2	Q128	F2	B2	R318	D3	D1
C108	G5	B0	Q132	F2	B3	R320	E4	D2
C108	G5	B0	Q214	E5	C1	R321	E2	D2
C110	G6	B1	Q216	E4	C1	R322	D3	D2
C128	F2	B2	Q222	E2	C2	R323	D3	D2
C132	G1	B3	Q224	E2	C2	R324	D3	D2
C142	E5	B4	Q318	D4	D1	R325	D2	D2
C220	E3	C2	Q322	D2	D2	R328	D3	D2
C242	F6	C4	Q324	E3	D3	R338	E2	D2
C306	E5	D0				R344	E6	D4
C308	D4	D0	R004	G4	B0	R406	F5	E0
C316	D3	D1	R006	G4	A0	R408	G6	E0
C328	D3	D2	R010	G3	A1	R412	D4	E1
C328	D2	D2	R012	G4	A1	R414	C4	E1
C330	E1	D3	R014	G5	A1	R416	C4	E1
C334	G5	D3	R018	G3	B1	R418	D3	E1
C344	G5	D3	R022	H3	A2	R420	C3	E2
C404	F5	E0	R028	G2	A2	R422	C2	E2
C408	G5	E0	R032	G2	A3	R424	C2	E2
C446	D6	E4	R034	G2	A3	R426	C1	E2
C502	D6	F0	R036	G2	B3	R428	C1	E2
C504	E5	F0	R108	E5	C0	R430	D1	E3
C506	E5	F0	R114	F4	B1	R432	E3	E3
C508	F5	F0	R118	G5	B1	R434	E1	E3
C510	G5	F0	R118	F3	C1	R436	D1	E3
C512	D6	F1	R122	G3	B2	R442	F6	E4
			R124	F2	B2	R503	D5	E4
CR112	F4	B1	R128	G2	B2	R504	E6	F0
CR116	F3	B1	R128	E2	B3	R508	F6	F0
CR122	F3	B2	R140	E6	B4	R510	G6	F0
CR210	E5	C1	R202	G3	C0	R512	D6	F1
CR212	E4	C1	R204	F4	C0			
CR228	E1	C2	R206	E5	C0	RT316	D3	D1
			R208	E5	C0			
E214	E4		R212	E4	C1	TP214	D5	C1
			R214	D4	C1	TP224	D2	C2
L404	F6	B0	R218	E4	C1	TP302	F6	D0
L406	E6	B0	R220	E3	C2	TP502	F5	F2
			R222	D2	C2			
P412	C4	E1	R224	E2	C2	VR306	F4	A0
P426	C2	E2	R226	E2	C2	VR304	G3	D0
P534	G8	F3	R228	E1	C2			

P/O A40 ASSY ALSO SHOWN ON (2) (3) & (5)

P/O A40 ASSY (SN B100767 & up)

HORIZONTAL AMPLIFIER (6)

C314	B4	D1	R410	B5	E1	R510	A2	F1
C316	B5	D1	R412	C4	E1	R512	A2	F1
C318	B4	D1	R414	B4	E1	R514	A3	
			R415	A4	E1	R516	A3	
J426	C4	E2	R416	A4	E1	R518	A4	
J428	C2	F2	R418	B4	E1	R522	A4	
			R420	B4	E1	R524	A3	
P512	A2		R422	B4	E2			
P516	A3		R424	B5	E2	U418	B2	E1
P526	A2							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U418
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HORIZONTAL AMPLIFIER

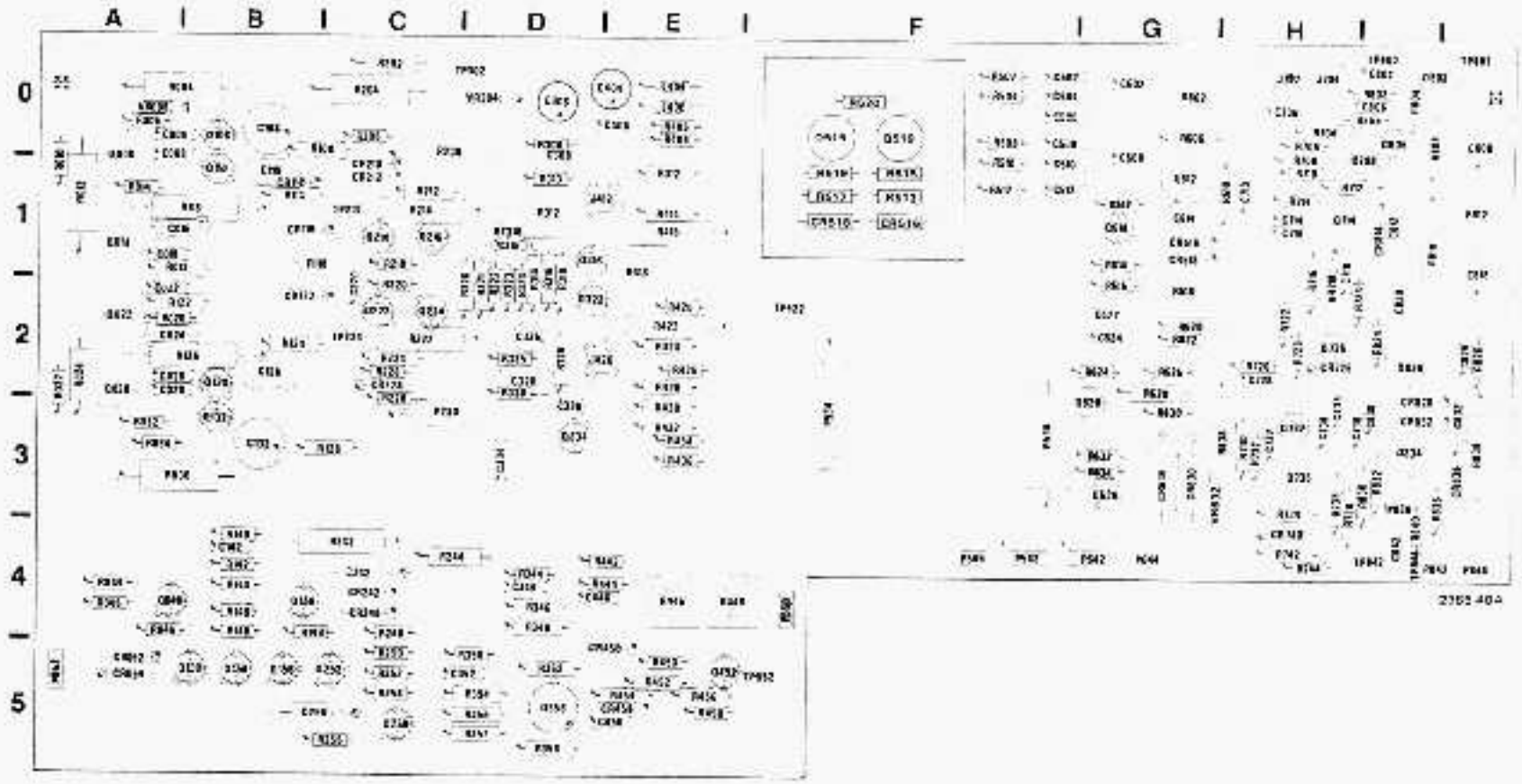
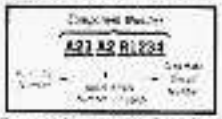
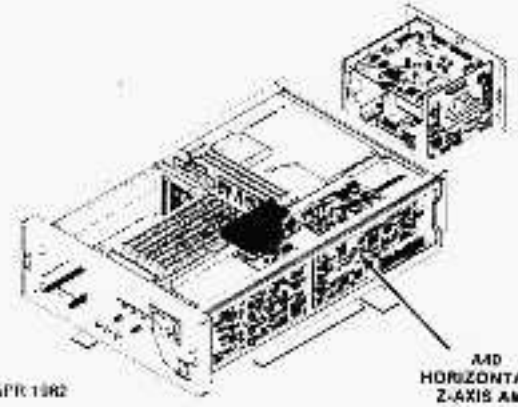


Fig. 7-11. The Horizontal and Z-Axis Amplifier circuit board, assembly A40 (SN B100765 & below).

COMPONENT NUMBER EXAMPLE





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P/O A40 ASSY (SN B100766 & below)

HORIZONTAL AMPLIFIER 6

Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location
C005	G4	A0	Q005	G4	A0	R226	E2	C2
C008	G5	A0	Q018	G4	A1	R228	E2	C2
C016	G5	A1	Q022	G3	A2	R230	E2	C1
C018	G4	B1	Q028	G2	A2	R308	E4	D1
C022	G3	A2	Q108	F4	B0	R310	D4	D1
C024	G2	A2	Q110	F4	B1	R312	D3	D1
C026	G1	A2	Q128	F2	B2	R314	D3	D2
C028	G2	A2	Q132	F2	B3	R316	E4	D1
C108	F5	B0	Q214	E5	C1	R320	E4	D2
C110	F5	B1	Q216	E4	C1	R321	E2	D2
C128	F2	B2	Q222	E2	C2	R322	D3	D2
C132	F2	B3	Q224	E3	C2	R323	D3	D2
C142	E5	B4	Q318	D4	D1	R324	D4	D2
C220	E3	C2	Q322	D2	D2	R325	D2	D2
C247	F5	C4	Q334	E3	D3	R326	E3	D2
C305	E5	D0				R328	E2	D2
C308	E4	D1				R344	E5	D4
C316	D3	D1	R004	G4	A0	R406	G5	E0
C326	D3	D2	R005	G4	A0	R408	G5	E1
C328	E2	D2	R010	H5	A1	R412	D4	E1
C330	D1	D3	R012	G4	A1	R414	C4	E1
C334	G5	D3	R014	G5	A1	R416	C4	E1
C344	E5	D4	R018	G4	B1	R418	D3	E1
C404	F5	E0	R022	H3	D2	R420	C3	E2
C405	G5	E0	R024	G3	A2	R422	C2	E2
C495	D5	E4	R026	G3	A2	R424	C2	E2
CR02	D5	F0	R032	G2	A3	R425	D1	E2
C503	E5	F0	R034	G2	A3	R428	D1	E2
C505	E5	F0	R036	G2	A3	R430	D1	E3
C508	F5	F0	R108	E5	B0	R432	E3	E3
C510	G5	F1	R114	F4	B1	R434	E1	E3
C512	D5	F1	R116	G5	B1	R438	E1	E3
			R118	F3	B1	R442	F6	E4
CR112	F4	B1	R122	G3	B2	R444	D6	E4
CR116	F3	B1	R124	F2	B2	R502	D6	F0
CR122	F3	B2	R126	G2	B2	R504	E6	F0
CR210	E5	C1	R128	E2	B3	R508	F6	F0
CR212	F4	C1	R140	E6	D4	R510	G6	F1
CR228	B7	C2	R202	G3	C0	R512	D6	F1
			R204	F4	C0			
L404	F6	E0	R206	E5	C0	RT316	D4	D1
L406	B6	E0	R208	E5	C0			
			R212	E4	C1	TP214	D5	C1
			R214	D5	C1	TP224	D2	C2
P412	C4	E1	R218	E4	C1	TP522	F5	F2
P426	C2	E2	R220	E3	C2			
P534	G6	F3	R222	D2	C2	VR006	G4	A0
			R228	E2	C2	VR304	G3	D0

P/O A40 ASSY ALSO SHOWN ON 7

P/O A46 ASSY (SN B100766 & below)

HORIZONTAL AMPLIFIER 6

C514	B4	F1	R318	D3	D2	R532	A3	F3
C516	B5	F1	R516	A2	F1	R536	A4	F3
C518	B4	F1	R518	B5	F1	R612	B5	G1
J626	A2	G3	R522	A2	F2	R614	B5	G1
			R524	B4	F2	R624	B4	G2
P420	A2	F2	R525	B4	F2	R632	A3	G3
P536	C2	F3	R526	A4	F2	R634	A3	G3
P538	C4	F3	R528	A4	F2	R638	C4	G3
P630	A3	G3	R529	B4	F2	U528	B3	F2

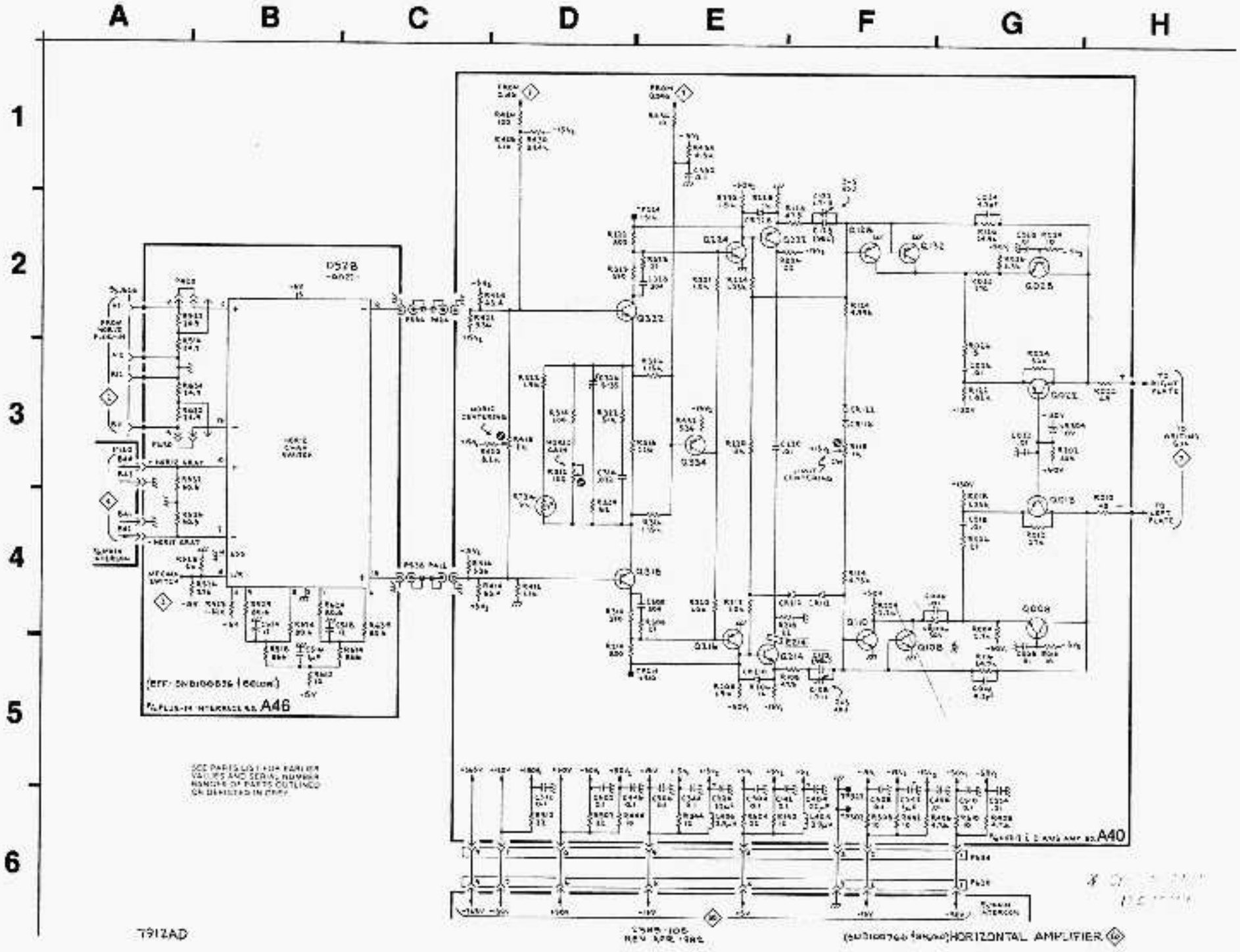
P/O A46 ASSY ALSO SHOWN ON 2 , 3 , & 5

P/O A48 ASSY

HORIZONTAL AMPLIFIER 6

P120	A4	B2	P630	G6	G3	—	—	—

P/O A46 ASSY - SEE FIG. 7-37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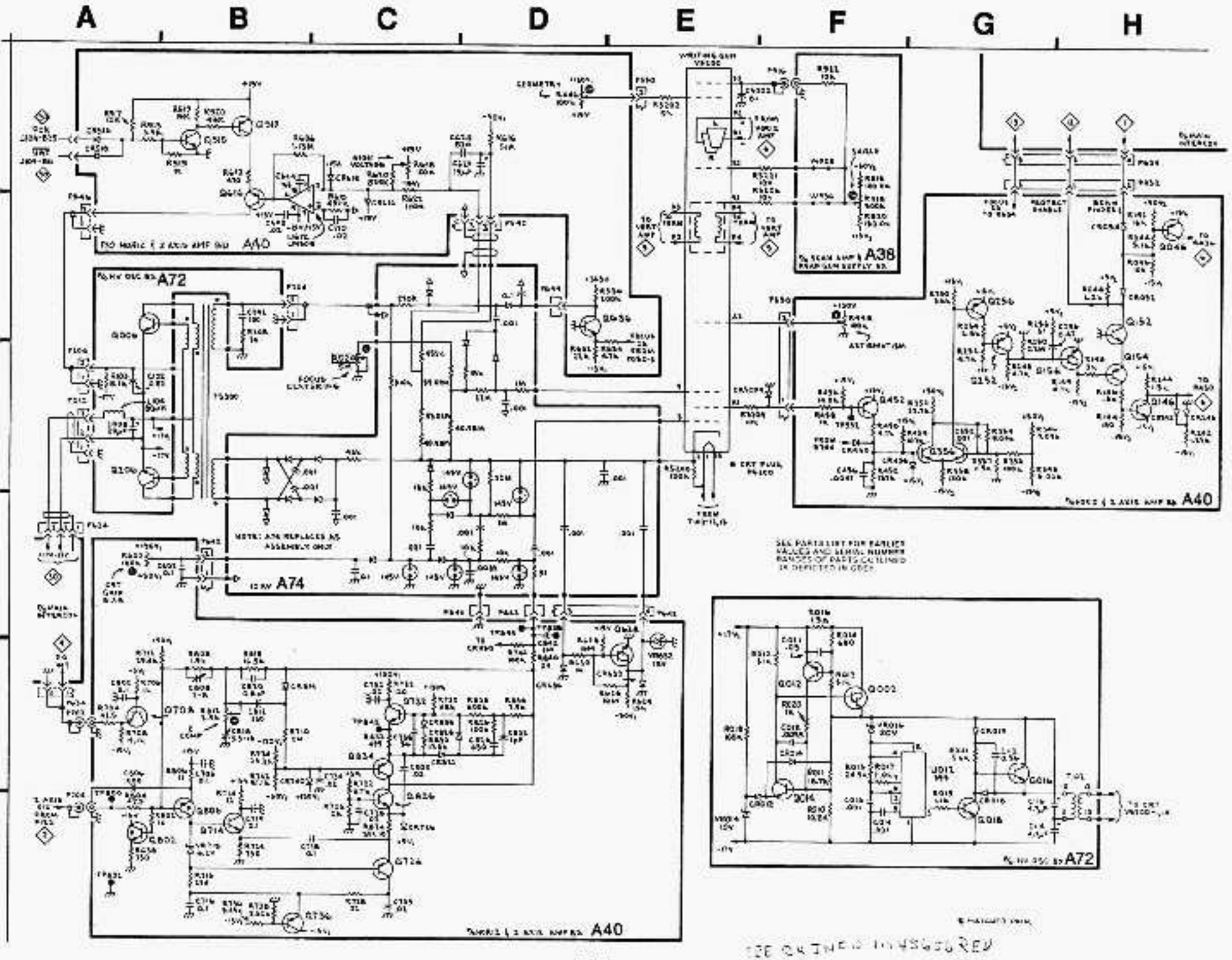
Q402
Q404

P/O A40 ASSY (SN B100787 & up)

Z-AXIS/HIGH VOLTAGE 7

Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location
C255	G2	C5	Q152	H2	B5	R616	D1	G1
C352	G3	D5	Q154	H2	B5	R618	C1	G2
C456	F3	E5	Q156	G3	B5	R620	C1	G2
C602	A4	G0	Q252	G2	C5	R622	C2	G2
C606	B2	G0	Q256	G2	C5	R624	E6	G2
C614	B1	G1	Q356	G3	D5	R626	D6	G2
C622	C1	G2	Q452	F3	E6	R628	D6	G2
C624	C1	G2	Q515	G1	F1	R630	D5	G2
C706	B6	H0	Q518	B1	F1	R632	D3	G3
C710	C2	H1	Q616	B1	G1	R634	D3	G3
C714	B6	H1	Q628	D5	G2	R638	A6	H3
C716	B6	H1	Q636	D2	G3	R704	A5	H0
C718	B5	H1	Q706	A5	I0	R706	A5	H0
C726	C6	H2	Q714	B6	H1	R708	A5	H0
C732	C5	H3	Q716	C6	H2	R710	B5	H1
C734	B5	H3	Q732	C5	H3	R712	A5	H1
C735	C6	H3	Q736	B6	I0	R714	B5	H1
C738	C5	H3	Q802	A6	I0	R716	B5	H1
C803	A5	I0	Q806	B6	I0	R722	C5	H2
C806	A5	I0	Q826	C6	I2	R724	B6	H2
C808	B5	I0	Q834	C5	I3	R726	C6	H2
C812	B5	I1				R728	C6	H2
C818	B5	I1	R044	H2	A4	R730	C5	H3
C820	B6	I2	R046	H2	A4	R732	C5	H3
C826	D6	I1	R048	H2	A4	R734	B5	H3
C832	C6	I3	R142	H2	B4	R736	B6	H3
C834	D5	I3	R144	H3	B4	R738	B6	H3
C842	D6	I4	R146	H2	B4	R742	B6	H4
C5202	E1	CHASSIS	R148	H3	B4	R744	D5	H4
			R149	G3	C4	R802	A6	I0
CR052	H2	A5	R242	H2	C4	R804	A6	I0
CR054	H2	A5	R244	H3	C4	R806	B5	I0
CR242	H3	C4	R248	G3	C4	R808	B6	I0
CR246	H3	C4	R250	G2	C5	R812	B6	I1
CR452	F3	E5	R252	G3	C5	R818	B6	I1
CR456	F3	E5	R254	G2	C5	R824	C6	I2
CR518	A1	F1	R256	G2	C5	R826	D5	I2
CR518	A1	F1	R346	G2	D4	R830	C5	I3
CR518	C2	G1	R348	G3	D4	R832	C5	I3
CR618	C1	G1	R350	G2	D5	R836	D5	I3
CR630	E5	G3	R352	F3	D5	R838	C5	I3
CR636	D5	G3	R354	G3	D5	R840	D5	I4
CR726	C6	HG2	R356	G3	D5	R5200	E3	CHASSIS
CR740	B5	H4	R357	G3	D5	R5201	E1	CHASSIS
CR814	B5	I1	R358	G3	D5	R5202	E1	CHASSIS
CR828	C5	I2	R445	D1	E4	R5204	E1	CHASSIS
CR832	C5	I3	R446	F2	E4	R5205	E1	CHASSIS
CR836	C5	I3	R450	F3	E5			
CR5204	E3	CHASSIS	R452	F3	E5	T5300	E3	CHASSIS
			R454	F3	E5			
P542	C1	I3	R455	F3	E6	TP552	F3	F5
P546	A2	F4	R458	F3	E5	TP802	A6	I0
P550	F2	F4	R513	A1	F1	TP838	D4	I3
P642	D1	G4	R515	A1	F1	TP842	C5	I4
P702	A5	H0	R517	A1	F1	TP844	D4	I4
P704	A6	H0	R519	B1	F1			
P842	D4	I4	R520	B1	F2	U612	B2	G1
P844	D4	I4	R535	D2	F3			
P5200	E3	CHASSIS	R602	A4	G0	V5200	E1	CHASSIS
			R610	C2	H1			
Q046	H2	B4	R612	B1	F1	VR632	E5	G3
Q148	H3	B4	R614	A2	G1	VR718	B6	H1



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Z-AXIS/HIGH VOLTAGE ◇7

P/O A38 ASSY — Z-AXIS/HIGH VOLTAGE (7)

Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location
P918	F1	J1	R818	F1	I1	R818	F1	J1	W808	F1	J2
			R820	F2	I1	R822	F1	J2	W806	F2	J3

P/O A38 ASSY ALSO SHOWN ON (9) & (10)

P/O A40 ASSY (SN B100766 & below) — Z-AXIS/HIGH VOLTAGE (7)

C256	G2	C5	CR832	C5	I3	R242	H3	C4	R712	A5	H1
C352	G3	D5	CR836	C5	I3	R244	H3	C4	R714	B5	H1
C456	F3	E5	CR5204	E3	CHASSIS	R248	G3	C4	R716	B6	H1
C602	A4	G0	P542	C1	F4	R250	G2	C5	R716	B6	H2
C606	A2	G1	P546	A2	F4	R252	G3	C5	R722	C5	H2
C610	A1	G1	P550	F2	F5	R254	G2	C5	R724	B6	H2
C622	C1	G2	P642	B4	G4	R256	G2	C5	R726	C6	H2
C624	C1	G2	P642	D4	G4	R346	G3	D4	R728	C6	H2
C706	B5	H0	P644	D2	G4	R348	G3	D4	R730	C5	H3
C710	B2	H1	P702	A5	H0	R350	G2	D5	R734	B5	H3
C714	B6	H1	P704	A6	H0	R352	F3	D5	R736	B6	H3
C716	B6	H1	P842	D6	I4	R354	G3	D5	R738	B6	H3
C718	B6	H1	P844	D6	I4	R356	G3	D5	R742	B5	H4
C718	B6	H1	P5200	E3	CHASSIS	R357	G3	D5	R744	D5	H4
C728	C6	H2	Q048	H2	A4	R358	G3	D5	R802	A6	I0
C732	C5	H3	Q146	H3	B4	R448	D1	E4	R804	A6	I0
C734	B5	H4	Q152	H2	B5	R448	F2	E4	R806	B5	I0
C736	C6	H3	Q154	H3	B5	R450	F3	E5	R808	B5	I1
C738	C5	H3	Q156	G3	B5	R452	F3	E5	R812	B5	I1
C802	A5	I0	Q252	G2	C5	R454	F3	E5	R818	B5	I1
C806	A5	I0	Q256	G2	C5	R456	F3	E5	R824	C6	I2
C808	B5	I0	Q356	G3	D5	R458	F3	E5	R826	D5	I2
C812	B5	I1	Q452	F3	E5	R513	A1	F1	R830	C5	I3
C818	B5	I2	Q515	B1	F0	R515	B1	F1	R832	C5	I3
C820	B5	I2	Q519		F0	R517	A1	F1	R836	D5	I3
C826	D5	I2	Q616	A1	G1	R519	A1	F1	R838	C5	I3
C830	C5	I3	Q628	D5	G2	R520	B1	F0	R840	D5	I4
C832	D5	I3	Q636	D2	G3	R538	D2	F3	R5200	E3	CHASSIS
C842	D4	I4	Q706	A5	H1	R602	A4	G0	R5201	E1	CHASSIS
C5202	E1	CHASSIS	Q714	B6	H1	R606	A1	G0	R5202	E1	CHASSIS
CR052	H2	A5	Q726	C6	H2	R610	B1	G1	R5204	E1	CHASSIS
CR054	H2	A6	Q732	C5	H3	R612	A1	G1	R5206	E1	CHASSIS
CR242	H3	C4	Q736	B6	H3	R614*	A2	G1	T5200	B3	CHASSIS
CR246	H3	C4	Q802	A6	I0	R616	C1	G2	TP302	F6	D0
CR450	F3	E4	Q806	B6	I0	R618	B1	G2	TP652	F3	F5
CR456	F3	E5	Q826	C5	I2	R620	B1	G2	TP800	A3	I0
CR516	A1	F1	Q834	C5	I3	R622	B1	G2	TP802	A6	I0
	A1		R044	H2	A4	R624	E5	G2	TP838	D4	I3
CR616	B2	G1	R046	H2	A4	R626	D5	G2	TP842	C5	I4
CR618	B1	G1	R048	H2	A4	R628	D6	G2	TP844	D4	I4
CR630	E5	G3	R142	H2	B4	R630	D6	G3			
CR636	D5	G3	R144	H3	B4	R632*	D2	G3	U512	B1	G1
CR728	C6	H2	R146	H3	B4	R634	D2	G3			
CR740	B5	H4	R148	H3	B4	R638	A5	G3	V5200	E1	CHASSIS
CR814	B5	I1	R149	G3	B5	R705	A5	H1	VR632	E5	G3
CR828	C5	I2				R710	B5	H1	VR718	B6	H1

P/O A40 ASSY ALSO SHOWN ON (6)

P/O A68 ASSY — Z-AXIS/HIGH VOLTAGE (7)

P624	A4	G2	P634	A5	G3	—	—	—	—	—	—

P/O A68 ASSY - SEE FIG. 7-37

A72 ASSY — Z-AXIS/HIGH VOLTAGE (7)

C008	A3	A0	CR018	G5	A1	Q016	G5	A1	R019	F6	A1
C011*	F5	A1	CR019	G5	A1	Q018	G6	A1	R020*	F5	A1
C012	F5	A1				Q206	A3	C0	R103*	A3	B0
C014	F6	A1	L104	A3	B0				R208	B2	C0
C016	F5	A1				R010	F6	A1	R011	G6	A1
C102	A3	B0	P204	B2	C0	R011	F5	A1			
C112	G5	B1	P206	A3	C0	R012	F5	A1	T102	G5	B1
C114	G6	B1	P212	A3	C1	R013	F6	A1			
C116	G6	B1				R014	F5	A1	U012	F5	A1
C202	B2	C0	Q002	F5	A0	R015	F5	A1			
			Q006	A2	A0	R016	F5	A1	VR014	E6	A1
CR012	E5	A1	Q012	F5	A1	R017	F5	A1	VR018	F5	A1
CR014*	F5	A1	Q014	F5	A1	R018	E5	A1			

COMPONENT NUMBER EXAMPLE

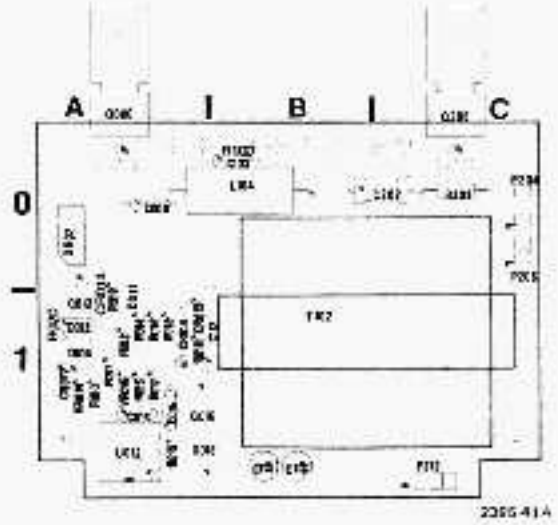
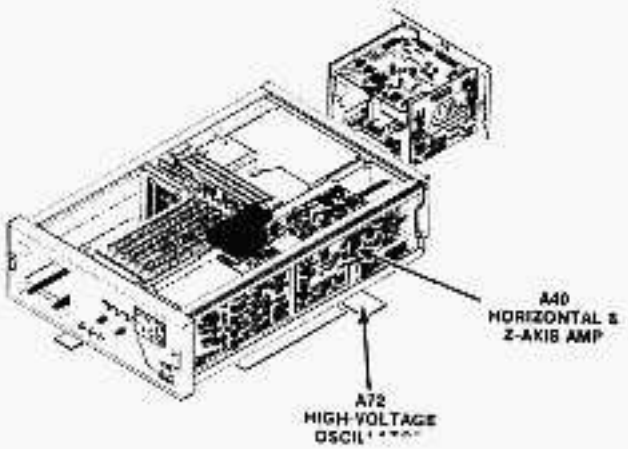
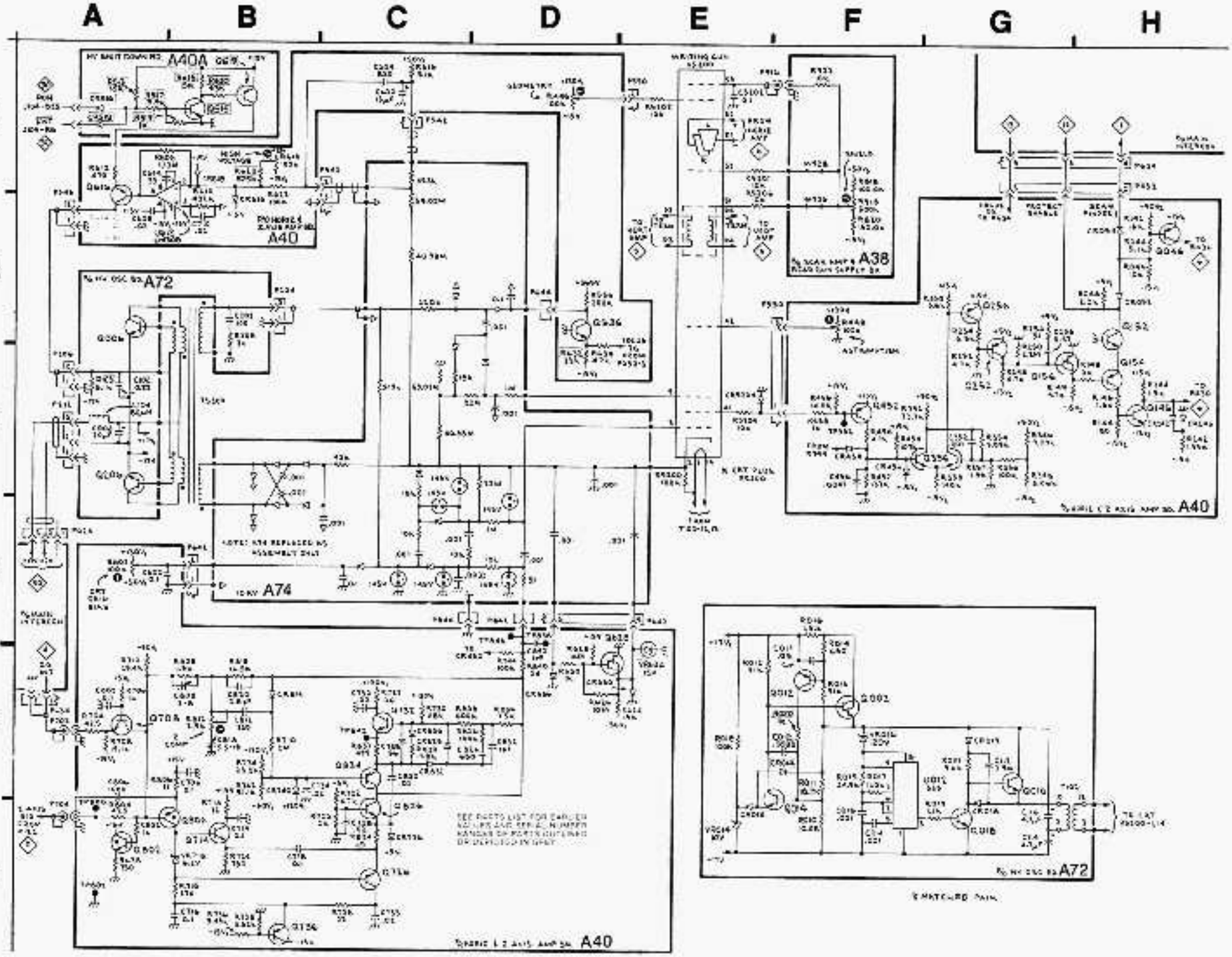


Fig. 7-12. The High-Voltage Oscillator circuit board assembly A72.

*See Parts List for serial number ranges.

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Z-AXIS/ HIGH VOLTAGE
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Z-AXIS/HIGH VOLTAGE
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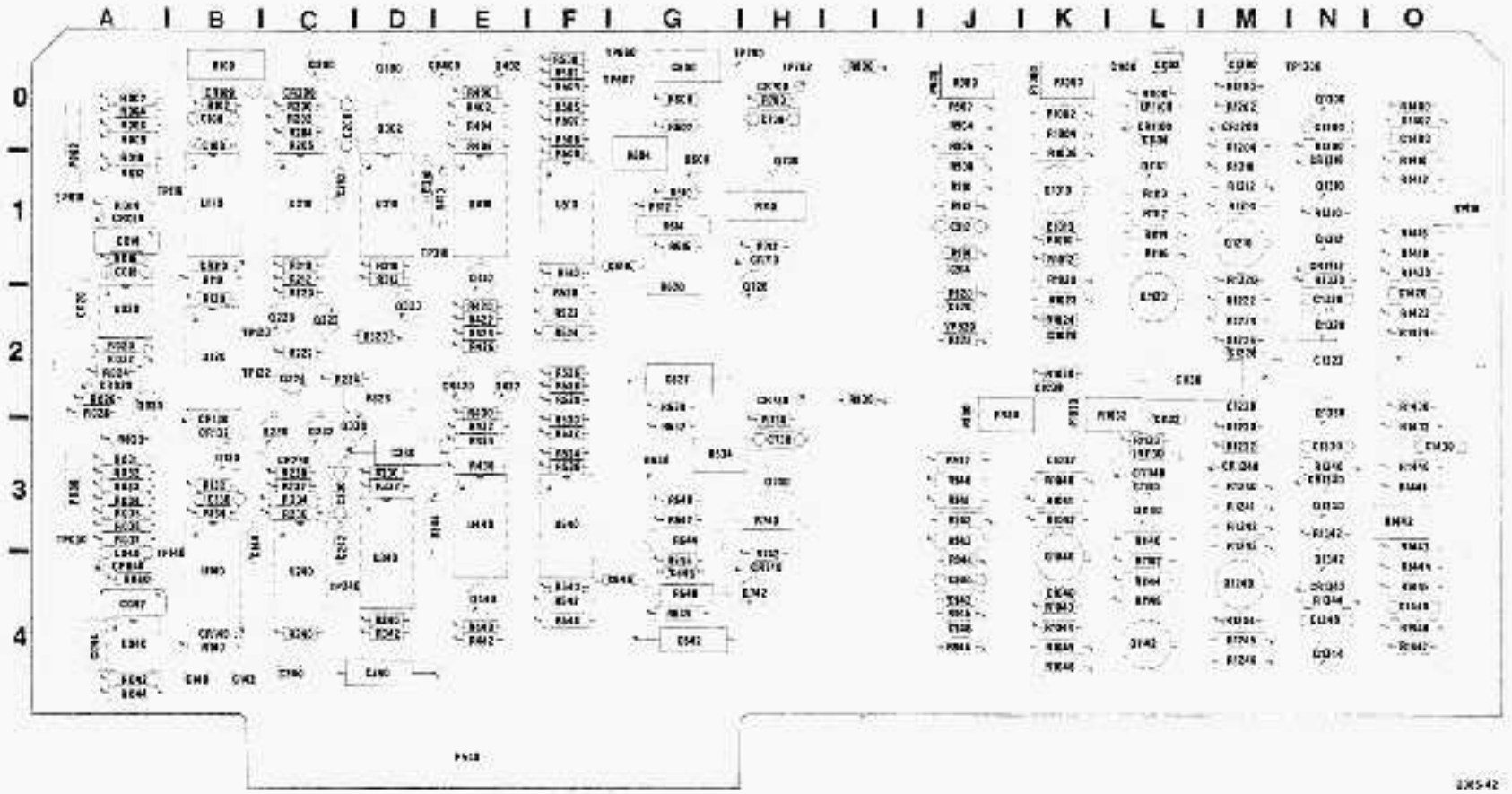
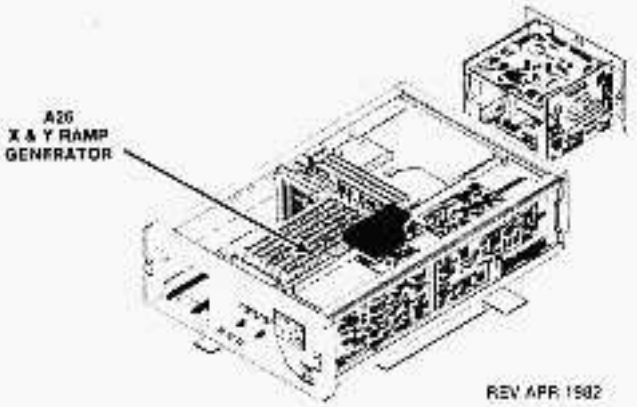


Fig. 7-13 The X and Y Ramp Generator circuit board, assembly A25.



COMPONENT NUMBER EXAMPLE

A23 A2 R1234

P/O A26 ASSY — X & Y SCAN GENERATORS (8)

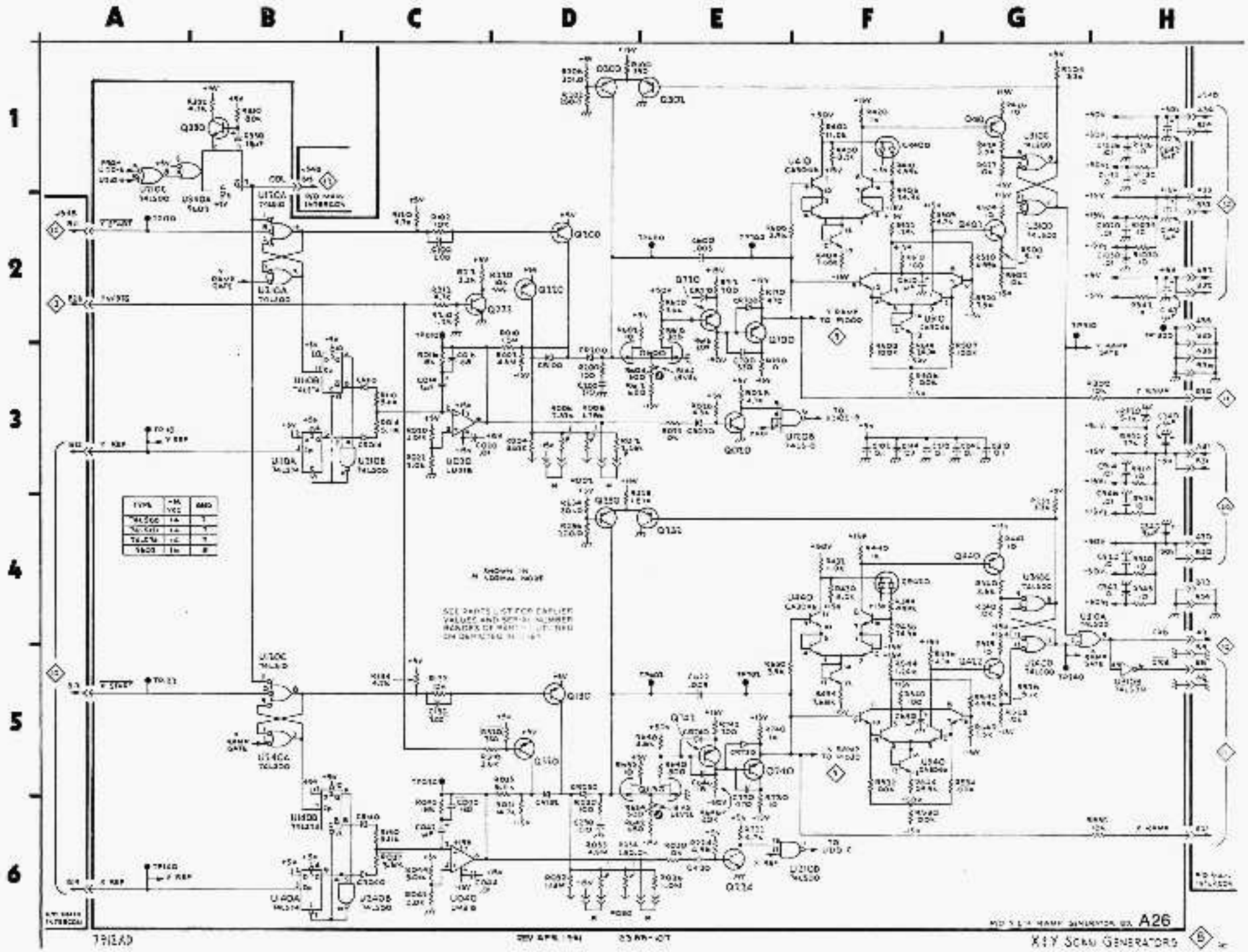
Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location
C010	C3	A1	Q230	D3	C3	R240	G4	C4	R649	G5	C4
C018	C3	A1	Q232	E4	C3	R310	C5	D1	R700	E3	H0
C020	C3	A2	Q300	B1	D0	R312	C2	D1	R710	E2	H1
C040	C6	A4	Q302	E1	D0	R320	D5	D2	R712	E2	H1
C042	C6	A4	Q320	D5	D2	R328	D3	D2	R730	E5	H3
C044	C6	A4	Q330	B1	C3	R330	B1	D3	R740	E5	H4
C100	C2	B0	Q402	G2	E0	R332	B1	D3	R742	E5	H4
C102	F3	B0	Q410	G1	E1	R340	G4	D4	R800	H3	I0
C130	C5	B3	Q422	G5	E2	R342	H2	D4	R830	H6	I2
C140	H2	B4	Q440	G4	E4	R344	F4	D4	R914	H3	J1
C142	H2	B4	Q500	E3	G1	R400	F1	E0	R920	H4	J2
C144	F3	B4	Q690	E5	G3	R402	F1	E0	R922	H3	J2
C200	D3	C0	Q700	E2	H1	R404	F2	E0	R945	H4	J4
C210	F3	C1	Q720	E2	H2	R406	F1	E1	R946	H3	J4
C230	D6	C3	Q740	E5	H3	R410	F1	E1	R1024	H2	K2
C240	H3	C4	Q742	E5	H4	R420	F1	E2	R1030	H2	K3
C242	G3	C4				R422	G1	E2	R1130	H1	L3
C310	G3	D1				R424	G1	E2	R1228	H1	M2
C330	B1	D3	R002	D3	A0	R426	G1	E2			
C340	H4	D4	R004	D3	A0	R430	F4	E3			
C600	E2	G0	R006	D3	A0	R432	F4	E3	TP010	C2	A1
C610	F2	G1	R008	D3	A0	R434	F5	E3	TP030	C5	A3
C622	E5	G2	R010	D2	A1	R436	F4	E3	TP110	A3	B1
C640	F5	G4	R012	D3	A1	R440	F4	E4	TP120	A2	B2
C642	H1	G4	R014	C3	A1	R442	G4	E4	TP122	A5	B2
C700	E5	H0	R016	C3	A1	R500	G2	F0	TP140	A6	B4
C730	E5	H3	R020	C3	A2	R502	G2	F0	TP240	G5	C4
C914	H3	J1	R022	C3	A2	R504	G2	F0	TP310	G2	D1
C920	H4	J2	R024	E3	A2	R506	F3	F0	TP600	E2	G0
C942	H4	J3	R028	E3	A2	R507	G2	F0	TP602	E5	G0
C946	H3	J4	R029	E3	A2	R508	F2	F1	TP700	E2	H0
C1020	H2	K2	R030	E6	A3	R509	F2	F1	TP702	E5	H0
C1030	H2	K3	R031	D6	A3	R510	F2	F2	TP1300	H2	N0
C1132	H1	L3	R032	D6	A3	R520	G2	F2			
C1226	H1	M2	R033	D6	A3	R522	F2	F2	U020	C3	A2
			R034	D6	A3	R524	G2	F2	U040	C6	A4
CR010	C3	A1	R035	E5	A3	R526	G3	F2	U110A	B3	B1
CR020	E3	A2	R036	E6	A3	R528	G3	F2	U110B	B3	B1
CR040	C6	A4	R037	C6	A3	R529	G4	F2	U120A	B2	B2
CR100	D3	B0	R040	C6	A4	R530	F6	F3	U120B	E3	B2
CR110	C3	B1	R042	C6	A4	R532	F5	F3	U120C	B5	B2
CR130	E6	B3	R044	C6	A4	R534	G5	F3	U140A	B6	B4
CR132	D5	B3	R100	B1	B0	R536	F5	F3	U140B	B6	B4
CR140	C6	B4	R102	C2	B0	R540	F5	F4	U210A	B2	C1
CR200	D3	C0	R110	C3	B1	R542	G5	F4	U210B	C3	C1
CR230	D5	C3	R120	C2	B2	R544	F5	F4	U210C	A1	C1
CR400	F1	E0	R132	C5	B3	R600	E2	G0	U210D	F6	C1
CR420	F4	E2	R134	C5	B3	R602	D2	G0	U240A	B5	C4
CR700	E2	H0	R140	C6	B4	R604	E3	G1	U240B	C6	C4
CR710	E2	H1	R200	D3	C0	R610	E2	G1	U240C	C4	C4
CR730	E5	H3	R202	D1	C0	R612	E3	G1	U240D	C5	C4
CR740	E5	H4	R204	G1	C0	R614	F2	G1	U310A	C4	D1
			R205	D1	C0	R616	E2	G1	U310B	H5	D1
P002	D3	A0	R210	C2	C1	R620	E2	G2	U310C	G1	D1
P090	D6	A3	R212	C2	C1	R630	E5	G3	U310D	G2	C1
			R220	D2	C2	R632	D5	G3	U340A	B1	D4
Q020	E3	A2	R222	E6	C2	R634	D6	G3	U410	F1	E1
Q130	D5	B3	R224	E6	C2	R640	E5	G3	U440	F4	E3
Q200	D2	C0	R230	D6	C3	R642	D6	G4	U510	F2	F1
Q220	D2	C2	R232	G4	C3	R644	F6	G4	U540	F5	F3
Q222	C2	C2	R234	D4	C3	R646	E5	G4			
Q224	E6	C2	R235	D4	C3	R648	E5	G4	VR920	H3	J2

P/O A26 ASSY ALSO SHOWN ON (9)

P/O A68 ASSY — X & Y SCAN GENERATORS (8)

J548	A2	F4	J548	B1	F4	J548	H1	F4	—	—	—

P/O A68 ASSY - SEE FIG. 7-37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TRIAD
X-Y SCAN GENERATORS
A26

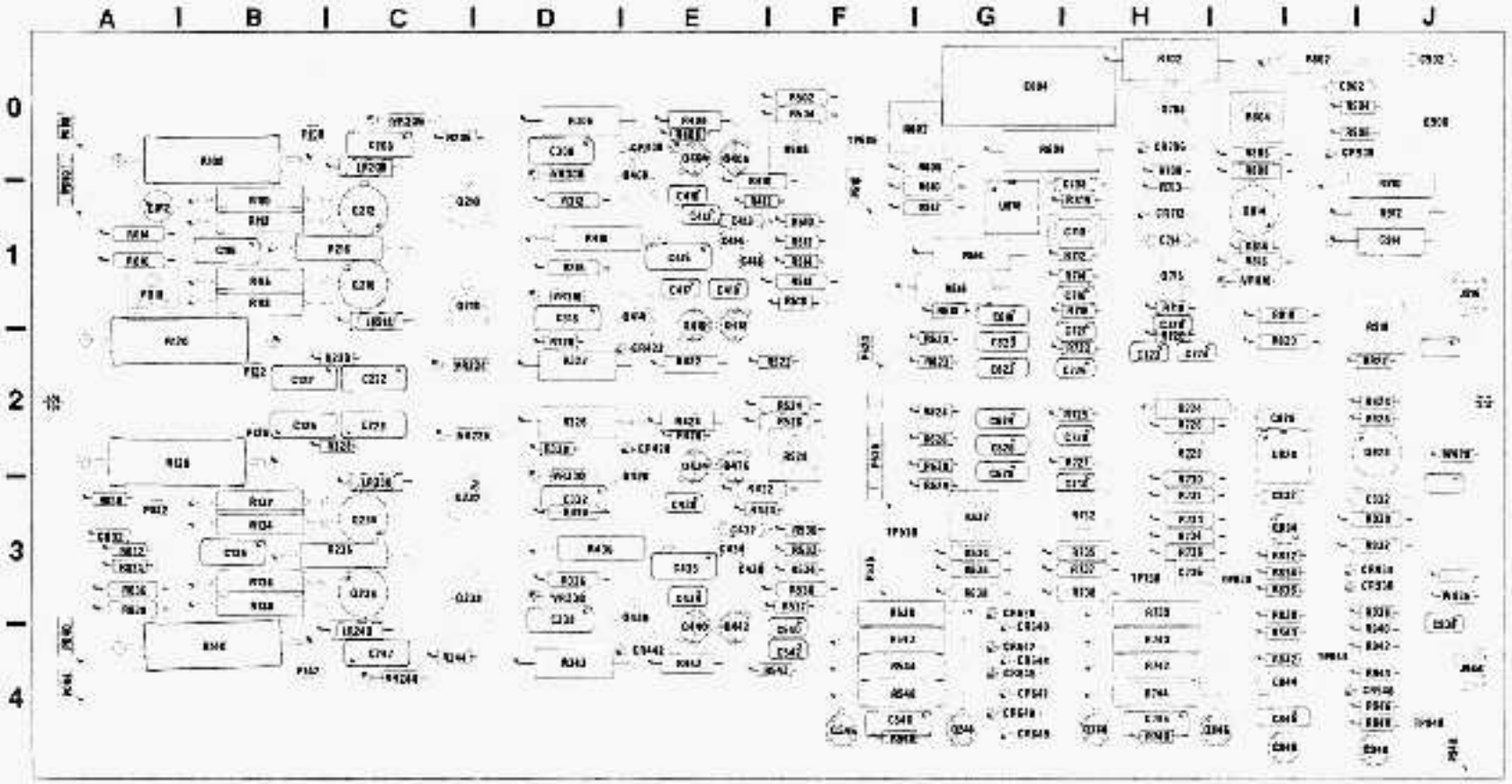
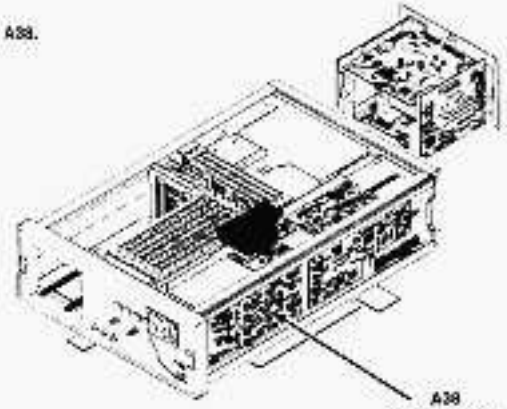
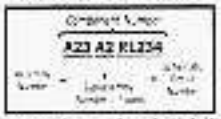


Fig. 7-14. The Scan Amplifier and Reading Gun Supply circuit board, assembly A38.



*See Parts List for serial number ranges.

COMPONENT NUMBER EXAMPLE



P/O A25 ASSY — X & Y SCAN AMPLIFIER (9)

Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location
C912	A1	J1	R943	B5	J3
C940	A5	J4	R944	A6	J4
C1018	B1	K1	R1008	A1	K0
C1032	B5	K3	R1003	A2	K0
C1040	B4	K4	R1004	A2	K0
C1100	B1	L0	R1008	B2	K1
C1102	B2	L0	R1010	B1	K1
C1104	B1	L0	R1012	B1	K1
C1130	D4	L2	R1020	B2	K2
C1140	B4	L3	R1022	B1	K2
C1230	C2	M0	R1032	A4	K3
C1240	B4	M3	R1040	A4	K3
C1300	C1	N0	R1041	A4	K3
C1320	C3	N2	R1042	B5	K4
C1322	D1	N2	R1043	B4	K4
C1330	C4	N3	R1044	B4	K4
C1340	C5	N4	R1045	B4	K4
C1420	D1	O0	R1046	B4	K4
C1420	D3	O2	R1100	B1	L0
C1430	D4	O3	R1110	B2	L1
C1440	D5	O4	R1112	C2	L1
			R1114	C2	L1
CR1103	B1	L0	R1116	B2	L1
CR1142	B4	L3	R1140	B5	L3
CR1203*	C1	M1	R1142	C5	L4
CR1243	C4	M3	R1144	C5	L4
CR1310	C1	N1	R1146	B5	L4
CR1312	C1	N1	R1200*	C2	M0
CR1340	C4	N3	R1202	C1	M1
CR1342	C6	N4	R1204	C2	M1
			R1210	C2	M1
LR1100	B1	L0	R1212	C2	M1
LR1130	B4	L3	R1214	C1	M1
			R1220	C3	M2
P900	B2	J0	R1222	C3	M2
P930	A5	J3	R1224	C2	M2
P1000	A2	K0	R1230	B4	M3
P1030	A5	K3	R1232	C4	M3
			R1240	C5	M3
Q1010	B1	K1	R1241	C5	M3
Q1040	B4	K4	R1242	C4	M3
Q1110	B1	L1	R1243	C4	M4
Q1120A	B2	L2	R1244	C5	M4
Q1120B	C2	M2	R1245	C5	M4
Q1140	B4	L3	R1246	C5	M4
Q1142A	B5	L4	R1300	C1	N1
Q1142B	C5	L4	R1310	D2	N1
Q1210A	C1	M1	R1320	C3	N2
Q1210B	C3	M1	R1340	C4	N3
Q1240A	C4	M4	R1342	D5	N4
Q1240B	C5	M4	R1344	D6	N4
Q1300	D1	N0	R1400	D1	O0
Q1310	C1	N1	R1402	D2	O0
Q1312	C3	N1	R1410	D1	O1
Q1320	D3	N2	R1412	D1	O1
Q1330	D4	N3	R1414	D2	O1
Q1340	C6	N3	R1416	D2	O1
Q1342	C6	N4	R1418	D3	O1
Q1344	D6	N4	R1420	D3	O2
			R1422	D3	O2
R900	A3	J0	R1424	D3	O2
R902	A3	J0	R1430	D4	O2
R904	A3	J0	R1432	D4	O3
R906	A2	J1	R1440	D4	O3
R908	A2	J1	R1441	D4	O3
R910	B2	J1	R1442	D5	O3
R912	A1	J1	R1443	D5	O3
R930	A4	J3	R1444	D5	O4
R932	A4	J3	R1445	D5	O4
R940	A4	J3	R1446	D5	O4
R941	A4	J4	R1447	D6	O4

P/O A25 ASSY ALSO SHOWN ON (8)

P/O A38 ASSY — X & Y SCAN AMPLIFIER (9)

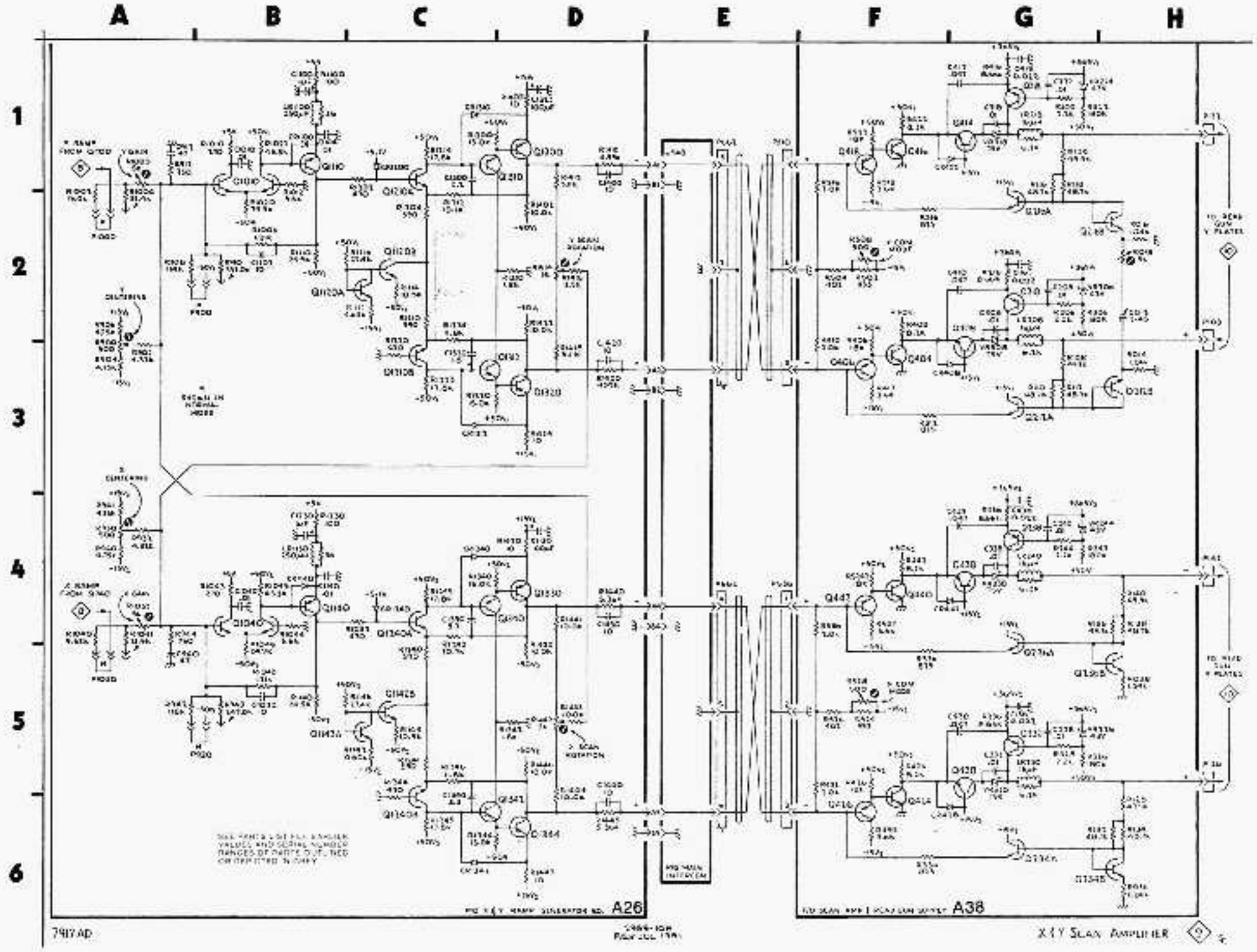
Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location
C012	H2	A1	R036	H6	A3
C116	G2	B1	R038	H5	A3
C136	G5	B3	R108	G3	B0
C208	G2	C0	R110	G3	B1
C222	G1	C2	R112	G3	B1
C228	G5	C2	R116	G1	B1
C242	G4	C4	R118	G1	B1
C308	G2	D0	R120	G1	B2
C318	G1	D1	R128	H6	B2
C332	G5	D3	R132	H6	B3
C338	G4	D3	R134	H6	B3
C410	G2	E1	R136	H4	B3
C415	G1	E1	R138	H3	B3
C417	G1	E1	R140	H3	B4
C430	G5	E3	R208	G2	C0
C435	G4	E3	R218	G2	C1
C439	G4	E3	R226	G3	C3
			R306	G2	D0
CR408	F3	E0	R312	F3	D1
CR422	F1	E2	R316	F2	D1
CR428	F6	E2	R320	G1	D2
CR442	F4	E4	R322	G1	D2
			R326	G5	D2
LR208	G2	C0	R328	G5	D2
LR218	G1	C1	R334	F6	D3
LR230	G5	C3	R336	F5	D3
LR240	G4	C4	R408	F2	E0
			R408	F2	E0
P108	H1	B0	R410	F2	E1
P122	H2	B2	R412	F3	E1
P126	H4	B2	R416	G1	E1
P142	H6	B4	R422	F1	E2
P510	E1	F1	R424	F5	E2
P536	E4	F3	R426	F5	E2
			R432	F5	E3
Q210	G2	C1	R434	F6	E3
Q212A	G3	C1	R436	G4	E3
Q216A	G2	C1	R442	F4	E4
Q218	G1	C1	R502	F2	F0
Q232	G5	C3	R504	F2	F0
Q234A	G6	C3	R508	F2	F0
Q236A	G4	C3	R515	F1	F1
Q238	G4	C3	R518	F1	F1
Q404	F3	E0	R522	F1	F2
Q406	F3	E0	R524	F5	F2
Q408	G2	E1	R525	F5	F2
Q414	G1	E1	R528	F5	F2
Q416	F1	E2	R535	F4	F3
Q418	F1	E2	R537	F4	F3
Q424	F6	E2	R5242	F4	F4
Q426	F6	E2			
Q428	G5	E2	VR208	G2	C0
Q438	G4	E4	VR224	G1	C2
Q440	F4	E4	VR226	G5	C2
Q442	F4	E4	VR244	G3	C4
			VR308	G2	D1
R014	H3	A1	VR316	G1	D1
R016	H2	A1	VR330	G5	D3
R018	H2	A1	VR336	G4	D3

P/O A38 ASSY ALSO SHOWN ON (7) & (10)

P/O A68 ASSY — X & Y SCAN AMPLIFIER (9)

J548	E1	F4	P662 P662	E1 E4	G6 G6

P/O A68 ASSY - SEE FIG. 7-37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X Y Y Scan Amplifier

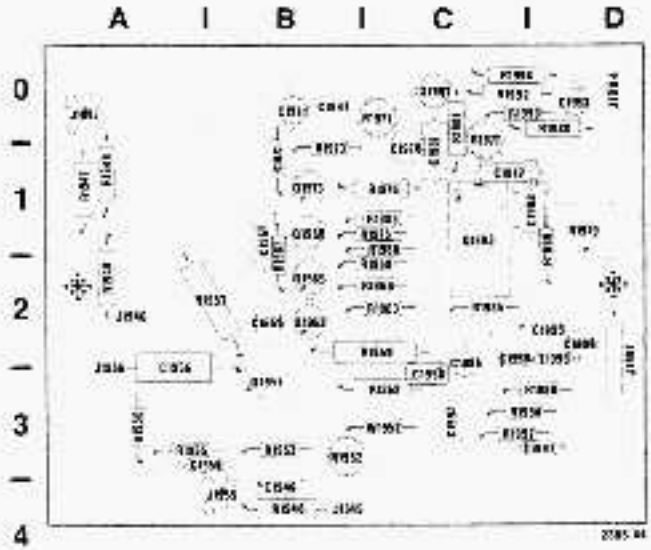
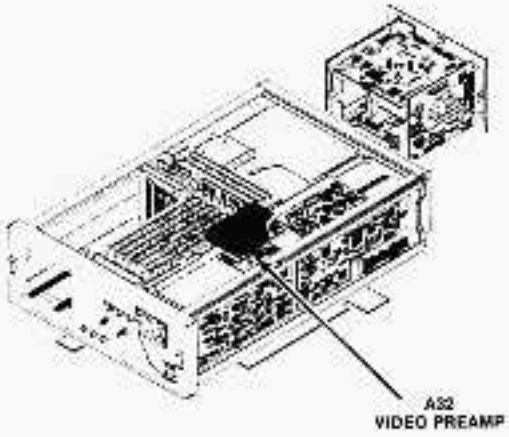


Fig. 7-15. The Video Preamplifier circuit board assembly A32.



COMPONENT NUMBER EXAMPLE

A23 A2 R1234

P/O A32 ASSY — VIDEO PREAMP/READING GUN SUPPLY (10)

Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location
C1945	E2	B4	C1997	H3	C3	Q1957	E1	B3	R1956	E1	A3	R1979	G1	D1
C1955	E2	B3	C1998	H3	D2	Q1962	F1	B2	R1957	F2	A2	R1980	G1	D0
C1956	E1	A2	C1999	H4	C3	Q1965	F1	B2	R1957	F2	A2	R1981	G1	C1
C1958	E1	C3				Q1966	F1	B2	R1958	F1	C3	R1983	G1	C1
C1961	F1	B1	J1945	E1	A2	Q1973	F1	B1	R1959	E1	C2	R1985	G2	C2
C1965	F1	B2	J1947	D1	A0	Q1981	H1	C0	R1961	F1	B1	R1986	G2	C1
C1971	F1	B0	J1955	E2	B4				R1963	F1	C2	R1988	G1	D1
C1976	F2	C1	J1956	F1	A2				R1966	F1	C2	R1992	H2	C0
C1977	G2	C1				R1945	E2	B4	R1968	F1	C2	R1993	H2	C0
C1981	G1	C1	L1997	H3	B3	R1947	E1	A1	R1971	F1	B1	R1994	H2	C0
C1983	G2	D1	L1998	H4	B2	R1948	E1	A1	R1972	F1	C0	R1996	H3	C3
C1991	H1	B0				R1949	E1	A1	R1973	F1	B1	R1997	H3	C3
C1993	H2	D0	P1945	E2	B4	R1952	E2	B3	R1975	F2	C1	R1998	H3	D3
C1995	H2	D2	P1946	G2	D0	R1953	E2	B3	R1976	F2	C1			
C1996	H3	C2	P1997	H2	B3	R1955	E1	A3	R1977	G2	C1	U1983	G2	C1

P/O A38 ASSY — VIDEO PREAMP/READING GUN SUPPLY (10)

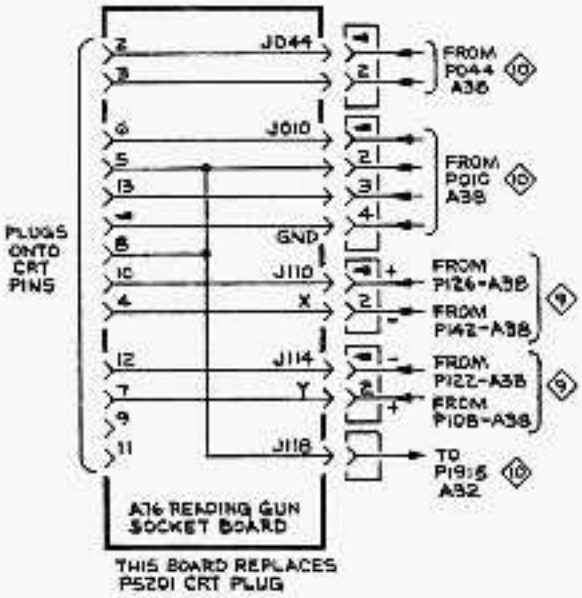
C107	C3	A3	C932	C3	J0	Q704	E6	H0	R624	A4	G2	R804	B3	I0
C122	A1	B2	C934	C3	J1	Q715	C5	H1	R626	A5	G2	R806	B3	I0
C125	A1	B2	C932	F5	J3	Q745	F3	H4	R628	A6	G2	R808	B4	I0
C412	A3	E1				Q814	B3	I1	R629	A4	G2	R814	C3	I1
C413	A2	E1	CR638	E4	G3	Q834	F5	I3	R632	E4	G3	R818	C3	I1
C414	A3	E1	CR640	E4	G4	Q845	F3	I4	R634	E4	G3	R832	G5	I3
C416	A5	E1	CR642	F4	G4	Q848	E5	I4	R636	E4	G3	R834	F5	I3
C418	A5	E1	CR644	F3	G4	Q906	C3	J0	R638	E4	G1	R836	F5	I3
C437	A2	E3	CR646	F4	G4	Q928	F5	J2	R702	E6	H0	R838	E5	I4
C434	A3	E3	CR647	F3	G4	Q948	H5	J4	R708	E6	H0	R840	E5	I4
C438	A5	E3	CR648	E3	G4				R709	B6	H1	R842	E5	I4
C540	A3	F4	CR649	E4	G4				R710	E6	H1	R904	I3	I0
C542	A6	F4	CR705	E6	H0	R030	C2	A3	R712	C5	H1	R906	B3	J0
C546	E4	F4	CR712	C6	H1	R032	C2	A3	R714	A3	H1	R910	B3	J1
C604	C5	G0	CR908	C3	J0	R034	C2	A3	R716	A4	H1	R912	B3	J1
C613	A1	G1	CR934	G5	J3	R220	A1	C2	R718	A2	H2	R924	F5	J2
C623	A2	G2	CR935	G5	J3	R228	A1	C2	R720	A3	H2	R926	F5	J2
C627	A3	G2	CR936	H5	J4	R510	A2	F1	R722	A4	H2	R930	F5	J3
C626	A5	G2				R512	A3	F1	R724	F6	H2	R932	G5	J3
C628	A6	G1	J944	H5	J4	R514	A5	F1	R725	A5	H2	R938	G5	J3
C706	C6	H1				R530	A2	F3	R726	F5	H2	R940	H5	J4
C710	B6	H1				R532	A3	F3	R727	A5	H2	R942	G5	J4
C714	C5	H1	P006	C3	A0	R534	A5	F3	R728	F5	H2	R944	H5	J4
C716	A3	H1	P010	C2	A1	R536	F4	F4	R730	F5	H3	R946	H5	J4
C720	A2	H2	P010	C2	A1	R540	E3	F4	R731	E5	H3	R948	H5	J4
C721	A4	H2	P010	D5	A1	R544	E4	F4	R732	F3	H3			
C722	A3	H2	P010	D6	A1	R546	E3	F4	R733	F5	H3	TP506	C5	F0
C724	A3	H2	P032	A1	A2	R548	E4	F4	R734	F5	H3	TP538	A4	F3
C728	A4	H2	P040	D3	A4	R602	B5	G0	R735	F3	H3	TP734	F5	H3
C729	A5	H2	P044	D5	A4	R604	C5	G0	R736	F5	H3	TP838	F5	I3
C730	A6	H5	P520	A1	F2	R606	B5	G1	R737	F3	H3	TP844	E5	I4
C736	F5	H3	P528	A1	F2	R610	C5	G1	R738	F3	H3	TP948	H5	J4
C746	F3	H4	P536	A1	F2	R612	B5	G1	R739	F4	H3			
C802	B3	I0	P948	H5	J4	R614	C5	G1	R740	F3	H4	U616	B5	G1
C825	E5	I2	P5201	D4	CHASSIS	R616	C5	G1	R747	F3	H4	U828	E5	I2
C832	E5	I3				R618	A1	G1	R744	F3	H4			
C844	E5	I4	Q546	E4	F4	R620	A2	G2	R745	F3	H4			
C846	E5	I4	Q546	E4	G4	R622	A3	G2	R802	C4	I0	VR816	C3	I1

P/O A38 ASSY ALSO SHOWN ON (7) & (9)

P/O A68 ASSY — VIDEO PREAMP/READING GUN SUPPLY (10)

P628	H2	G2	P632	A1	G3	P660	H2	G6	P662	H5	G6	—	—	—

P/O A68 ASSY - SEE FIG. 7-37


PLUGS ONTO CRT PINS
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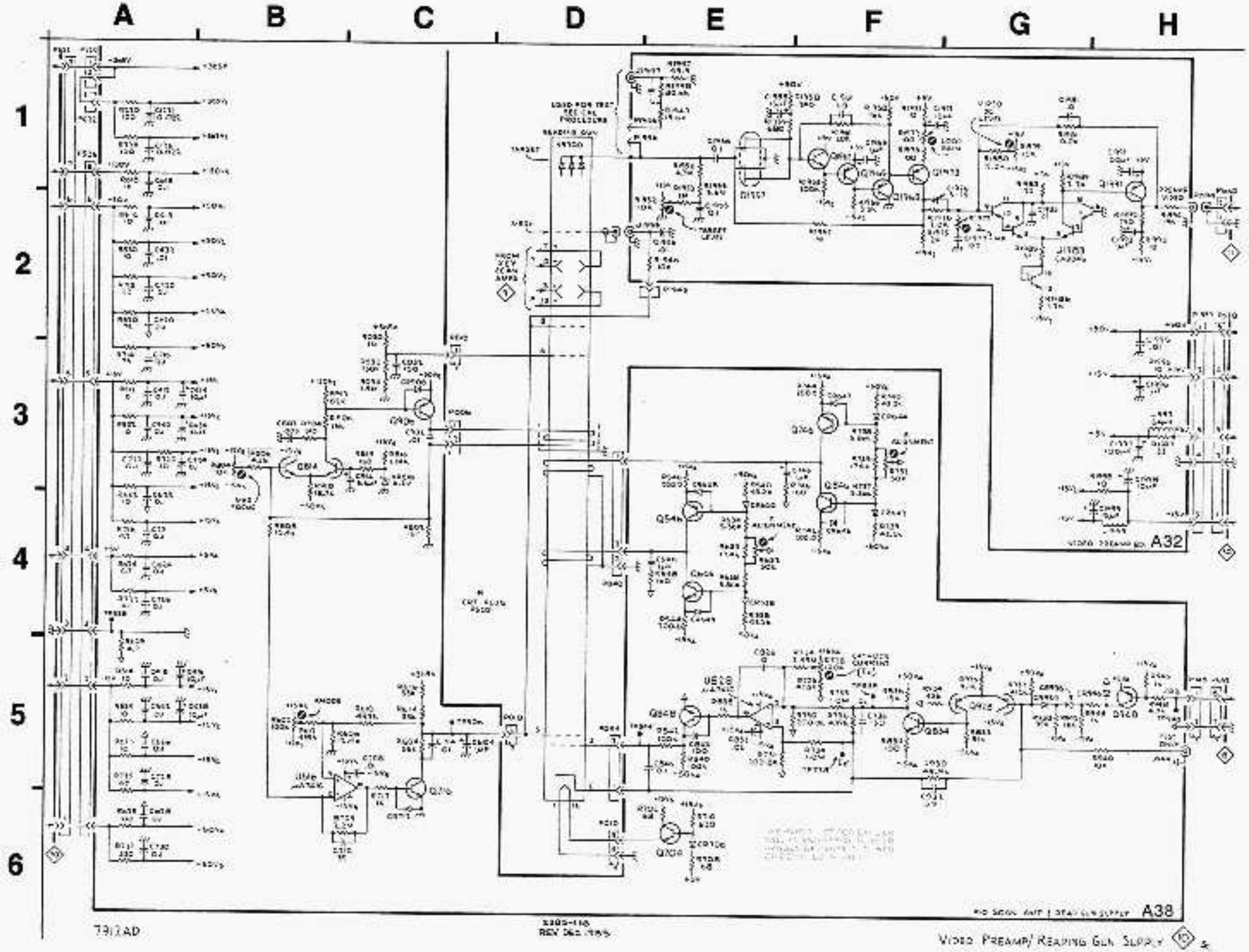
3
6
5
13
1
8
10
4
12
7
9
11
J044
J010
GND
J110
X
J114
Y
J118
FROM P044 A36
FROM P01C A38
FROM P126-A38
FROM P142-A38
FROM P122-A38
FROM P108-A38
TO P19:5 A32
A16 READING GUN SOCKET BOARD
THIS BOARD REPLACES P5201 CRT PLUG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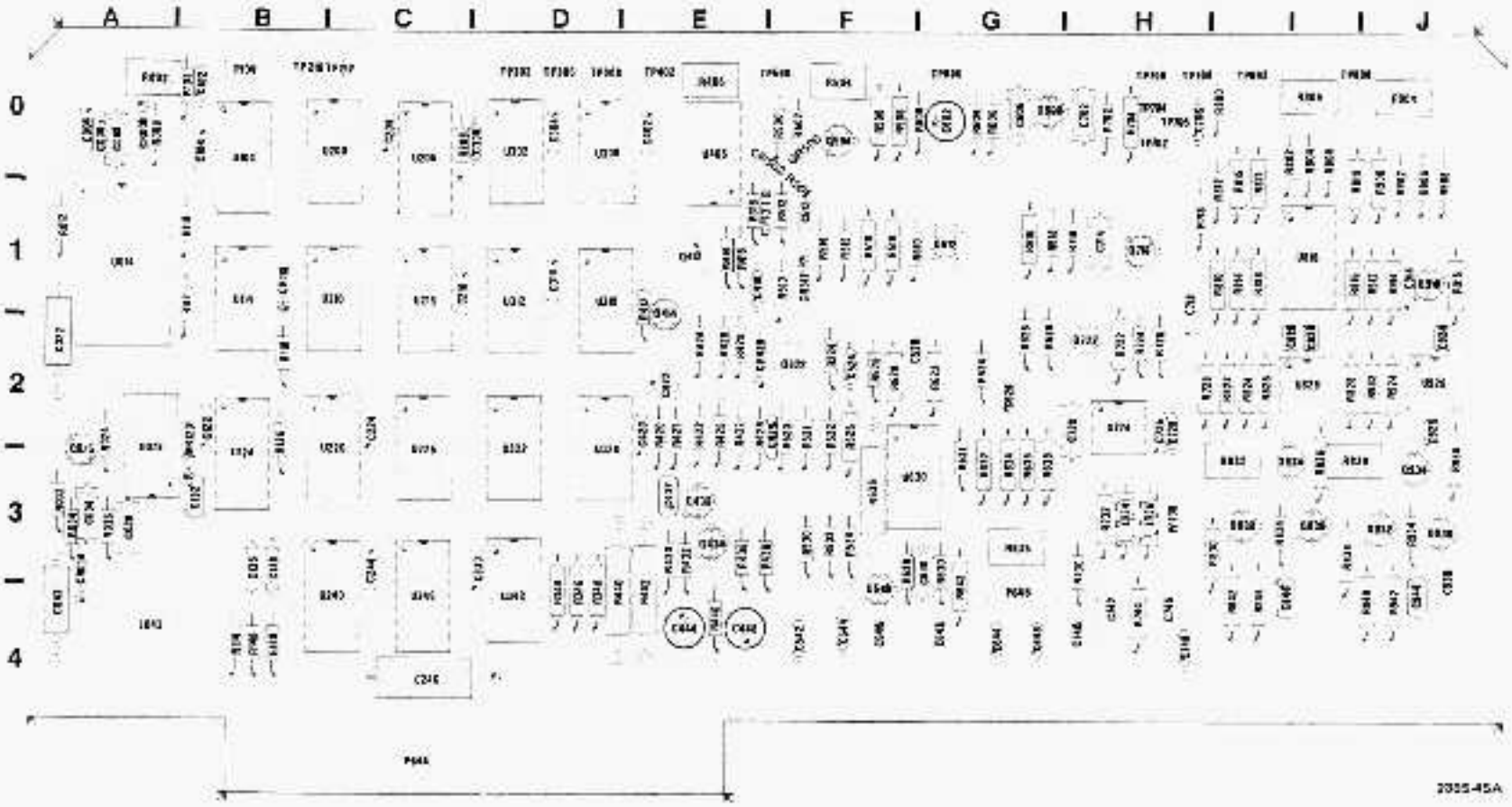
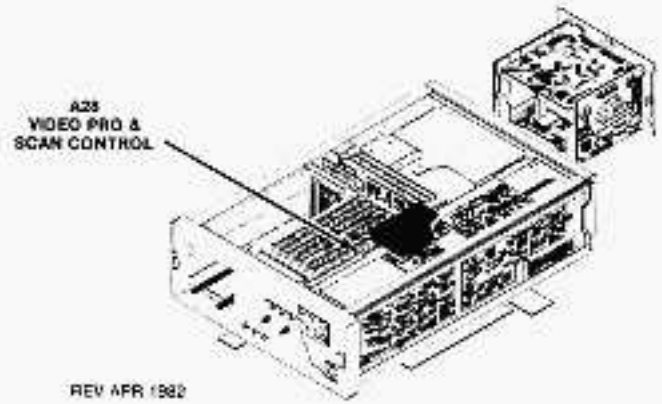
7912AD
VIDEO PREAMP/ READING GUN SUPPLY
VIDEO PREAMP/ READING GUN SUPPLY



*See Parts List for serial number ranges.

Fig. 7-16. The Video Processor and Scan Control circuit board, assembly A23.



COMPONENT NUMBER EXAMPLE

A23 A2 R1234

P/O A28 ASSY

VIDEO PROCESSOR (11)

Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location
C022	D5	A2	Q834	B3	I3	R806	D3	I0
C102	F3	B0	Q836	B3	I3	R808	D4	I0
C104	H4	B0	Q916	C6	J1	R810	C4	I1
C122	G4	B2	Q932	B5	J3	R812	D3	I1
C132	F5	B3	Q934	B4	J3	R814	C3	I1
C209	G4	C0	Q936	B5	J3	R815	C3	I1
C218	G4	C1	R102	F3	B0	R816	C4	I1
C224	G4	C2	R114	G4	B4	R817	C3	I1
C244	G4	C4	R126	G4	B2	R818	D3	I1
C246	G4	C4	R224	G2	F2	R819	C4	J1
C304	H4	D0	R406	B1	E0	R822	B4	I2
C314	G4	D1	R412	G2	E1	R824	C4	I2
C330	G4	D3	R420	B1	E2	R826	B3	I2
C402	G4	E0	R421	B1	E2	R828	B5	I2
C418	G3	E1	R434	G3	E2	R830	B4	I3
C420	G4	E2	R430	G2	E3	R832	B4	I3
C432	B1	E3	R561*	F0	G3	R834	B3	I3
C524	G3	F2	R514	G2	F1	R836	B3	I3
C528	H3	F2	R515	B2	F1	R838	B5	I3
C542	H4	F4	R516	B2	F1	R839	B5	I3
C544	H5	F4	R518	D2	F1	R842	B4	I4
C546	H4	F4	R522	G2	F2	R844	B3	I4
C602	D1	G0	R525	F2	F2	R900	C4	J1
C606	D2	G0	R526	G3	F2	R902	D4	J0
C626	G3	G2	R528	F2	F2	R904	D5	J0
C630	G2	G3	R535	G2	F3	R906	D5	J0
C642	G4	G4	R537	F3	F3	R908	C5	J0
C644	G4	G4	R534	G2	F3	R912	G4	J1
C648	G4	G4	R536	F2	F3	R914	C5	J1
C702	D2	H0	R538	G2	F3	R916	C5	J1
C708	F3	H0	R602	D1	G0	R924	B5	J2
C714	D2	H1	R604	D1	G0	R932	B5	J2
C718	D3	H1	R606	D2	G0	R934	B4	J3
C720	C2	H2	R610	D2	G1	R936	B4	J3
C726	C1	H2	R616	C2	G1	R940	B5	J4
C728	C1	H2	R618	D2	G1	R942	B5	J4
C740	G4	H4	R622	F2	G2			
C742	B2	H4	R624	G3	G2			
C745	B2	H4	R626	C2	G2	TP500	E2	G0
C748	G4	H4	R628	D2	G2	TP702	F2	H0
C828	C4	I2	R630	F2	G3	TP704	C1	H0
C838	C3	I2	R631	F2	G3	TP705	B2	H0
C846	B3	I4	R632	E2	G3	TP706	C2	H0
C914	D4	J1	R634	E2	G3	TP708	H5	H0
C924	C5	J2	R635	E2	G3	TP802	C3	I0
C926	C5	J2	R636	E2	G3	TP808	C5	I0
C936	G5	J4	R638	E2	G3			
C944	B4	J4	R642	F2	G4	U328	G2	D2
CR530*	F0	H3	R702	D2	H0	U630	F2	G3
CR532*	F0	H3	R704	D2	H0	U830	F2	G3
L734	B2	H3	R710	C1	H1	UT24	C1	H2
L736	B2	H3	R718	D3	H1	UB16	C3	I1
P586	E3	G4	R722	C1	H2	UB16	C4	I1
			R724	C2	H2	U826A	C4	I2
Q414	G2	E1	R725	B2	H2	U826B	D3	I2
Q516	G2	F4	R723	B4	H2	U926A	C5	J2
Q606	D2	G0	R730	B2	H3	U926B	D4	J2
Q612	D2	G1	R732	C2	H3			
Q715	C2	H1	R764	B2	H4			
Q722A	C2	H2	R800	G3	I0	VR120	F5	B2
Q722B	C2	H2	R802	D3	I0			
Q832	B4	I3	R804	C3	I0	W738	B2	H3

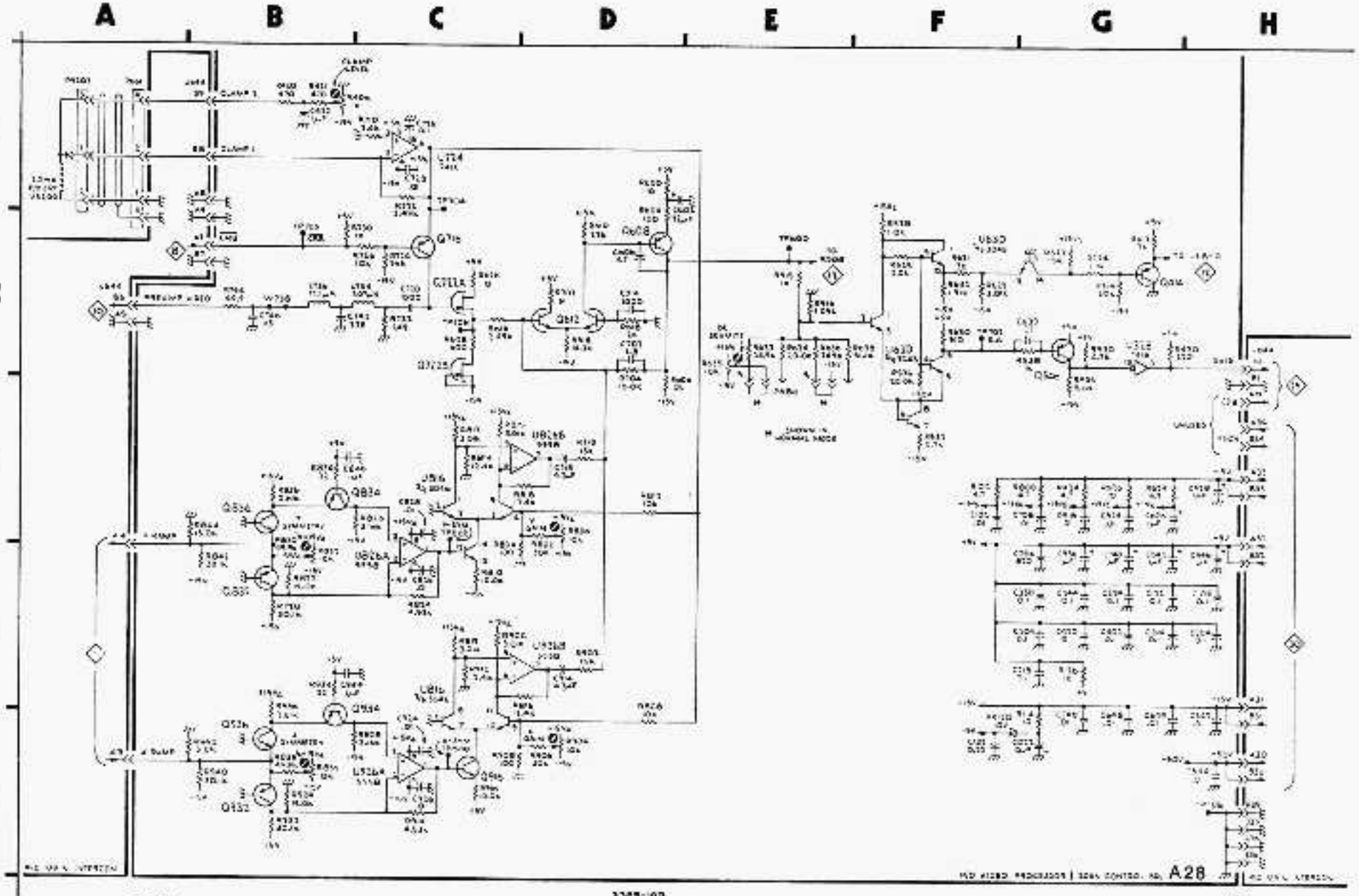
P/O A28 ASSY ALSO SHOWN ON (12)

P/O A68 ASSY

VIDEO PROCESSOR (11)

J641	B1	G4	J648	H2	G4	J681	A1	G4

P/O A68 ASSY - SEE FIG. 7-37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A28
VIDEO PROCESSOR

P/O A28 ASSY — X & Y SCAN CONTROL (12)

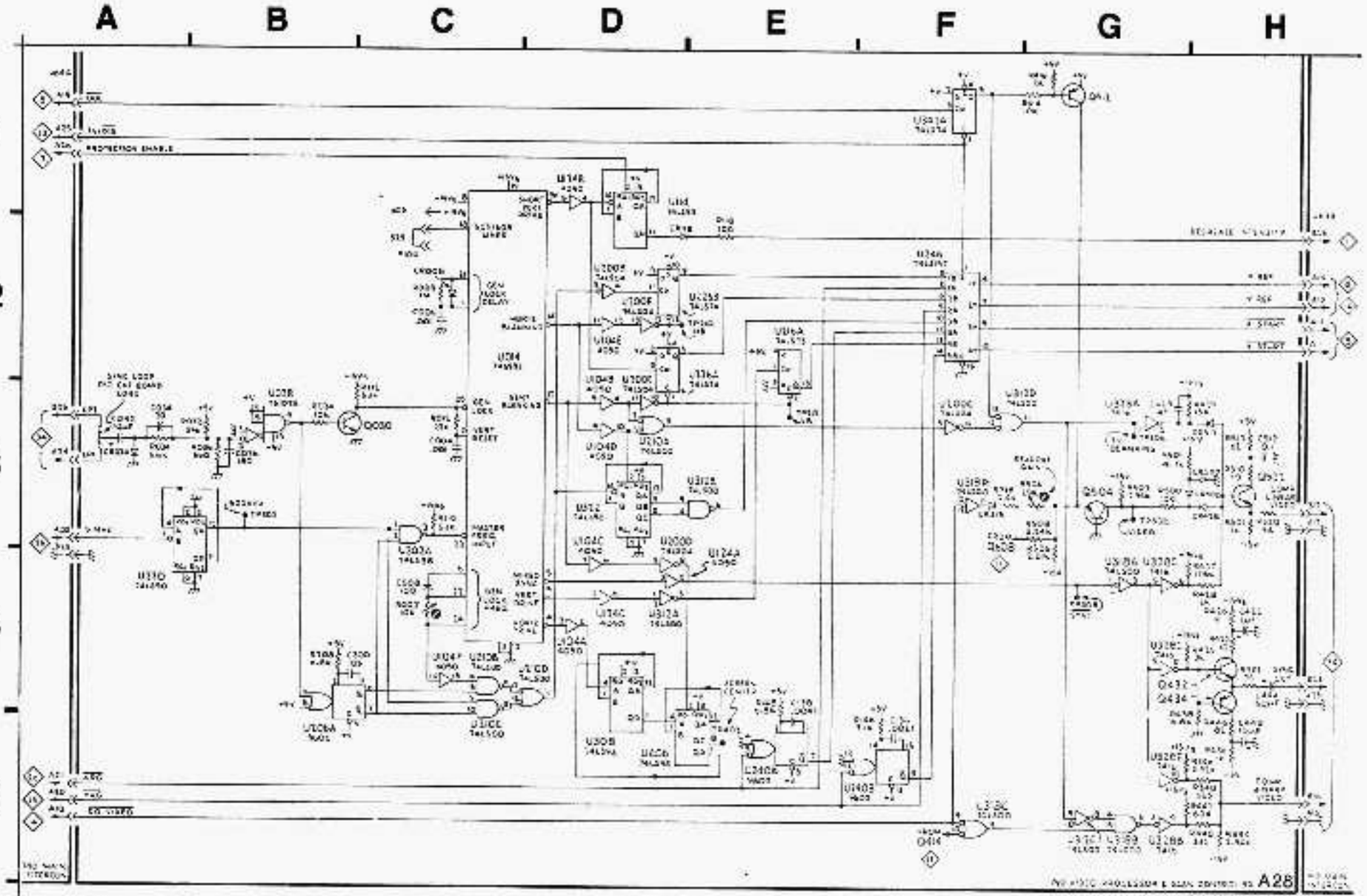
Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location
C004	C3	A0	R504	G3	F0
C006	C2	A0	R506	G3	F0
C008	C4	A0	R508	G3	F0
C036	B3	A3	R510	H3	F1
C042	A3	A4	R512	H3	F1
C136	F5	B3	R520	H3	F2
C138	E4	B3	R521	H3	F2
C300	B4	D3			
C422	H6	E2	TP210	D2	B0
C422	H4	E2	TP212	E3	C0
C428	G3	E2	TP302	B3	D0
C444	H4	E4	TP306	G3	D0
C448	H5	E4	TP308	G4	D0
C512	H3	F1	TP402	E5	E0
CR008	C2	A0	TP500	G3	F0
CR034	A3	A3			
CR118	D1	B1	U014	C2	A1
CR318	F3	E1	U028	B3	A2
CR428	H3	E2	U028	B3	A2
CR512	H3	F1	U104A	D4	B0
L042	A3	A4	U104B	D3	B0
			U104C	D3	B0
P104	C2	B0	U104D	D3	B0
			U104E	D2	B0
Q003	B3	A3	U104F	C4	B0
Q412	G1	E1	U114	D1	B1
Q432	H4	E3	U124A	D4	B2
Q434	H4	E3	U124B	D1	B2
Q504	G3	F0	U124C	D4	B2
Q522	H3	F2	U200B	D2	C0
			U200C	F3	C0
R002	C4	A0	U200D	D3	C0
R003	C2	A0	U200E	D3	C0
R024	B3	A2	U200F	D2	C0
R032	B3	A3	U206A	B4	C0
R034	A3	A3	U210A	D1	C1
R036	B3	A3	U210B	C4	C1
R110	C3	B1	U210C	C4	C1
R112	B3	B1	U210D	D4	C1
R116	E2	B2	U215A	E2	C1
R140	F5	B4	U220	B3	C2
R144	E4	B4	U226A	D2	C2
R208	B4	C0	U226B	D2	C2
R318	F3	E1	U240A	E5	C4
R344	H5	D4	U240B	F5	C4
R346	H5	D4	U248	F2	C4
R348	H5	D4	U302A	C2	D0
R414	G1	E1	U308	D5	D0
R416	G1	E1	U312A	D4	D1
R422	H4	E2	U312B	E3	D1
R425	H4	E2	U312C	G5	D1
R426	H4	E2	U312D	F3	D1
R427	H4	E2	U318A	G4	D1
R428	H4	E2	U318B	G5	D1
R429	H3	E2	U318C	F5	D1
R432	H4	E3	U318D	F3	D1
R436	H5	E3	U322	D3	D2
R438	H4	E3	U328A	G2	D2
R440	H5	E4	U328B	G5	D2
R442	H5	E4	U328C	G4	D2
R446	H5	E4	U328D	G4	D2
R500	G3	F0	U342A	F1	D4
R502	G3	F0	U406	D5	E0

P/O A28 ASSY ALSO SHOWN ON (11)

P/O A68 ASSY — X & Y SCAN CONTROL (12)

J644	A1	G4	J648	H2	G4

P/O A68 ASSY - SEE FIG. 7-37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7912AD
X-Y Scan Control
A28

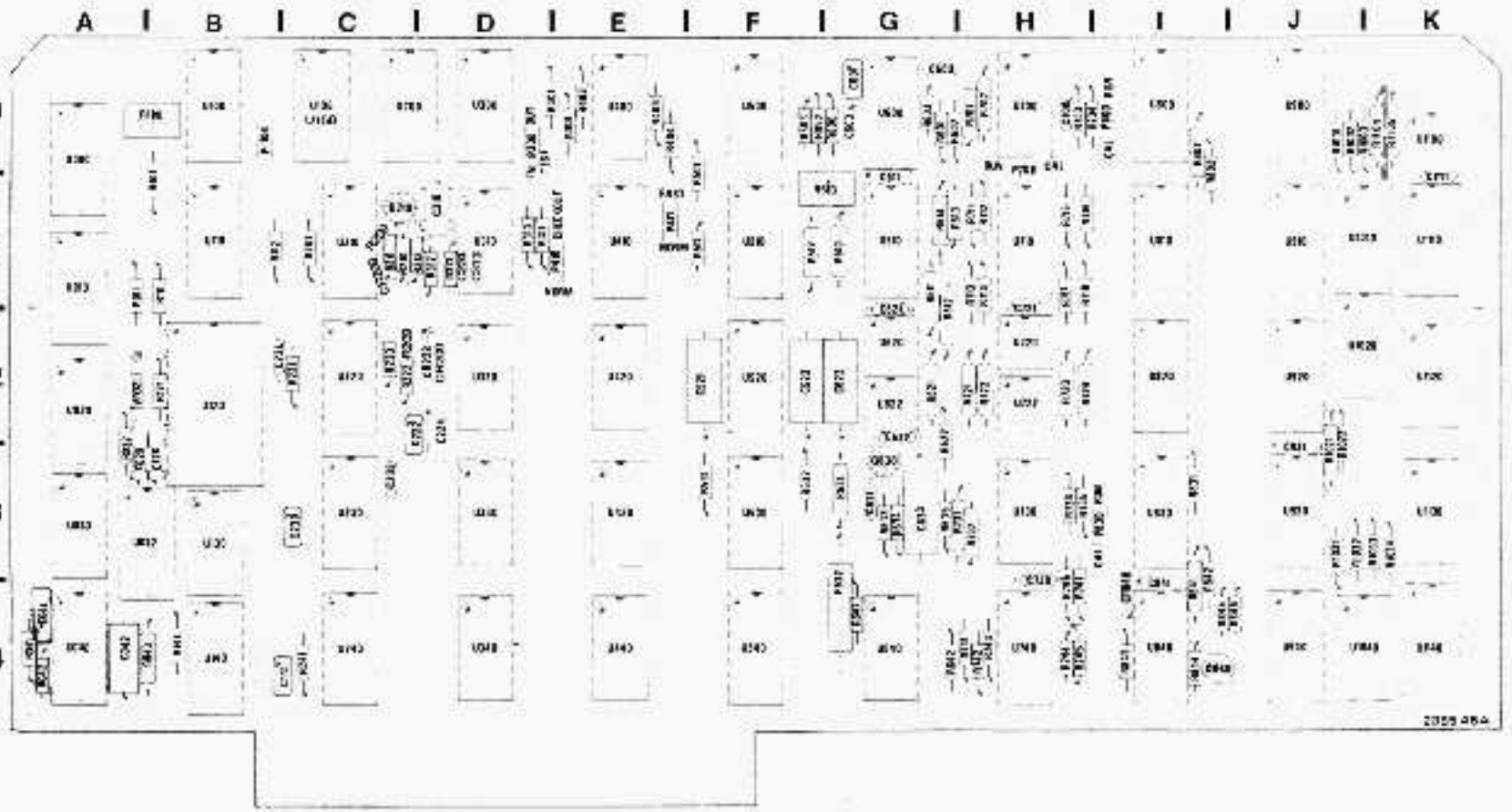
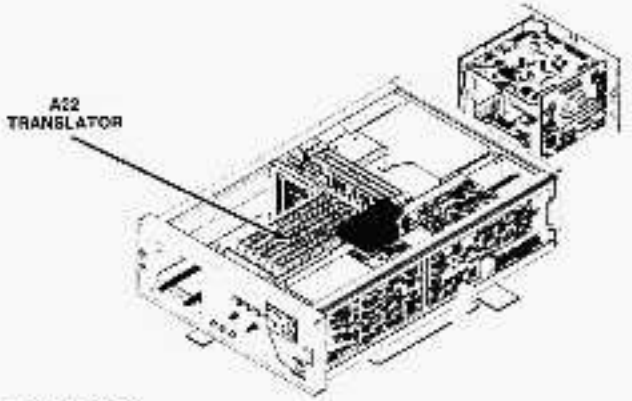


Fig. 7-18. The Translator circuit board assembly A22.

*See Parts List for serial number ranges.



COMPONENT NUMBER EXAMPLE

P/O A22 ASSY — TRANSLATOR 13

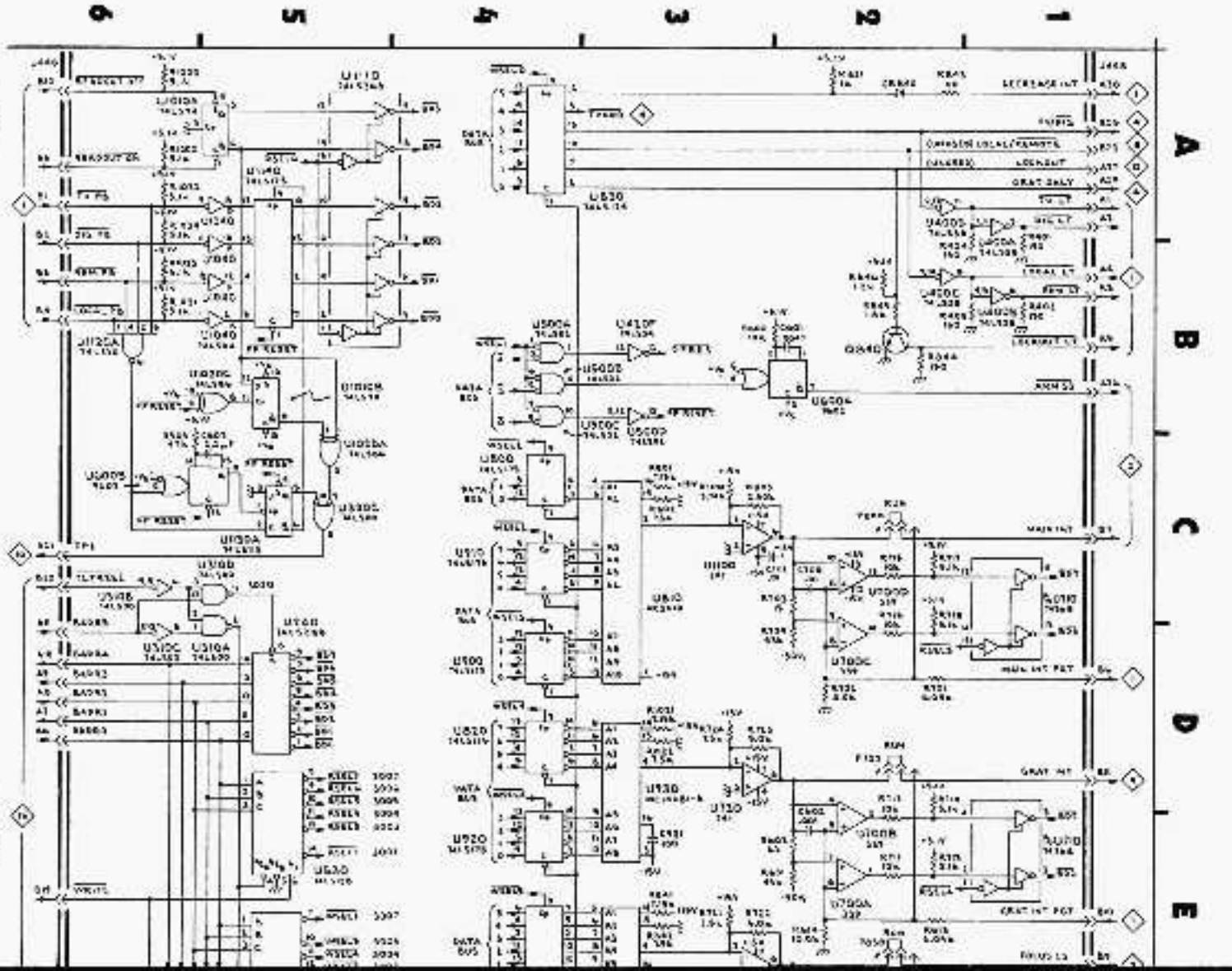
Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location
C224*	H5	D3	R622	F2	C2	U430D	A2	E0
C310	H6	D1	R631	H5	G3	U431D	G5	F1
C313*	H5	D3	R632	H5	G4	U432D	F4	E2
C321	H5	F2	R633	H5	G3	U432C	F4	E2
C322	H4	F2	R634	H5	G3	U432F	B3	E2
C631	B2	G3	R635	G2	G3	U410A	F4	E3
C632	E2	G3	R641	H5	G4	U410B	F4	E3
C633	C3	G3	R642	F2	G4	U410C	G4	E3
C611	G3	G1	R701	D2	H3	U440A	G4	E4
C621	G3	G2	R702	D2	H3	U440B	G4	E4
C622	H5	G2	R703	C2	H3	U440C	G4	E4
C631	H3	G3	R704	D2	H3	U520A	B4	F0
C632	H4	G3	R711	F2	H1	U520B	B4	F0
C633	H3	G3	R712	D2	H1	U520C	B4	F0
C700	C2	H0	R713	E2	H1	U520D	B3	F0
C721	E2	H2	R714	D2	H1	U510	G4	F1
C730	F2	H3	R715	C2	H1	U520B	H4	F2
C841	E3	I4	R716	D2	H1	U520B	H5	F2
C931	E3	J3	R717	C2	H1	U530	E5	F3
C1111	C2	K1	R718	C2	H1	U540	E5	F4
CR209*	H4	D2	R721	E3	H2	U610A	B2	G0
CR222*	H4	D2	R727	E3	H2	U610B	C5	G0
CR840	A2	I4	R723	D3	H2	U610	G3	G1
P305	F6	D0	R724	D3	H2	U620	G3	G2
P410	G8	E1	R731	F2	H3	U622	H4	G2
P611	F6	E1	R732	F2	H3	U640A	F6	G4
P700	D2	H0	R734	F2	H3	U640B	H4	G4
P800	C2	I0	R735	F2	H3	U640C	G2	G4
P830	E2	I3	R741	F2	H4	U640D	C2	G4
Q210	H6	C1	R742	G2	H4	U700A	E2	H0
Q630	H3	G3	R743	G2	H4	U700C	D2	H0
Q840	B2	I4	R744	E2	H4	U700D	C2	H0
R112	H8	C1	R745	F2	H4	U710	C1	H1
R210	G5	C1	R746	B2	H4	U710	E1	H1
R211	G5	C1	R747	F2	H4	U720	D3	H2
R212	H6	C1	R831	C3	I3	U722	E3	H2
R259*	H4		R832	C3	I3	U730A	G2	H3
R223*	G4	E2	R831	A2	I3	U730B	G2	H3
R321	F6	D0	R841	E5	I4	U730C	F2	H3
R310	G6	D1	R842	E5	I4	U730D	F2	H3
R311	G6	D1	R843	A2	I4	U740	F1	H4
R312	G5	D1	R844	B2	I4	U800	C4	I0
R313	H5	D1	R845	B2	I4	U810	C3	I1
R431	A1	E0	R846	B2	I4	U820	D4	I2
R402	B1	E0	R1002	A6	K0	U830	A4	I3
R403	B1	E0	R1003	A6	K0	U840	E3	I4
R404	A1	E0	R1022	D3	K3	U900	D4	J0
R501	F6	F0	R1031	B6	K3	U910	C4	J1
R503	C5	F0	R1032	A6	K3	U920	E4	J2
R510*	F3	F1	R1033	B5	K3	U930	D3	J3
R512	G3	F1	R1034	A6	K3	U940	E4	J4
R531	H5	F3	R1104	C3	K0	U1010A	A5	K1
R532	H4	F3	R1105	C3	K0	U1010B	B5	K1
R601	B2	G0	U100B	E2	B0	U1020C	B5	K2
R501	E2	G0	U310	D5	C1	U1040A	B5	K4
R502	E2	G0	U310A	D5	D1	U1040D	A5	K4
R608*	G3	G1	U310B	D6	D1	U1040E	B5	K4
R510	F3	G1	U310C	D6	D1	U1040F	B5	K4
R511	F3	G1	U310D	C5	D1	U1100	C3	K1
R512	G3	G1	U330C	C5	D3	U1120A	A5	K1
R513	E2	G1	U400A	A1	E0	U1130A	B6	L2
R514	E2	G1	U400B	B1	E0	U1130B	C5	K3
R521	G3	G2	U400C	B2	E0	U1140	H1	L3
							A5	K4

P/O A22 ASSY ALSO SHOWN ON 14

P/O A68 ASSY — TRANSLATOR 13

J448	A1	E4	J449	H1	E4	—	—	—

P/O A68 ASSY - SEE FIG. 7-37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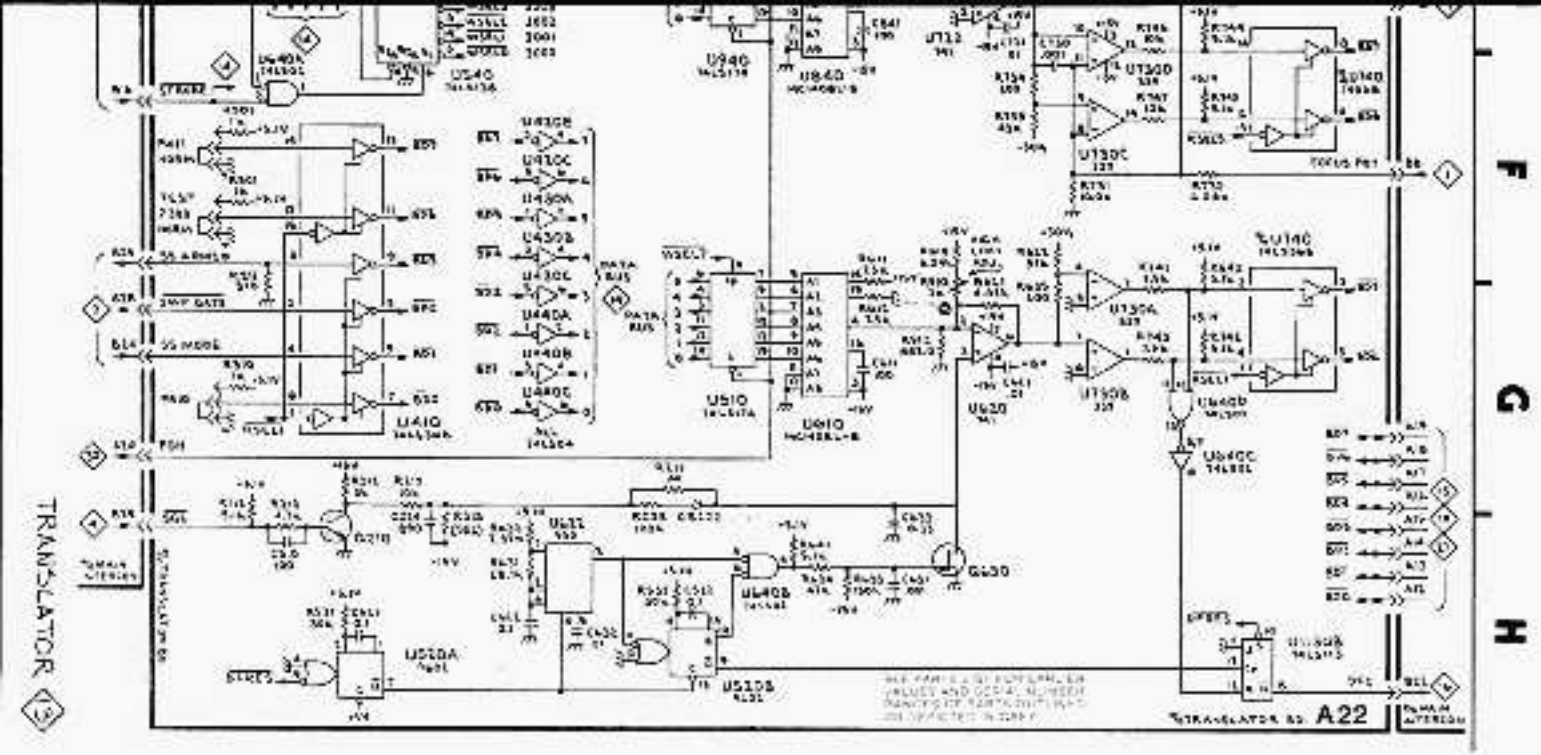
E

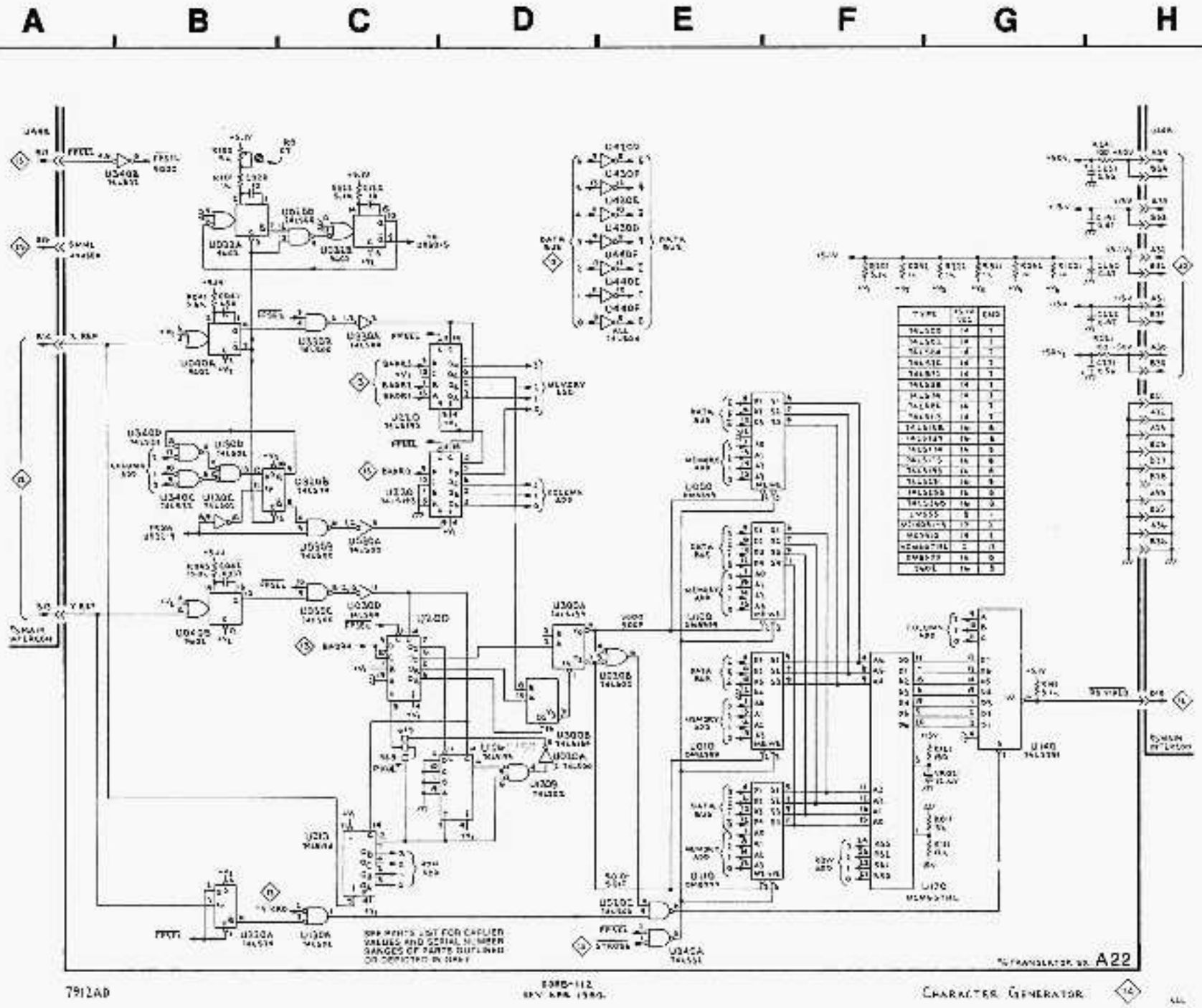


BOTTOM OF TRANSLATOR 13

P/O A22 ASSY			CHARACTER GENERATOR (14)		
Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location
C020	B1	A2	U032A	B2	D2
C041	B2	A4	U032B	C2	D2
C042	B3	A4	U040A	B2	A4
C120	C1	B2	U040B	B4	A4
C141	H1	B4	U100	E4	B0
C221	H2	C2	U105*	D5	C0
C222	H2	C2	U110	E5	B1
C222	H2	C2	U120	G5	B2
C222	H2	C2	U130A	C6	B3
C230	H2	C3	U130C	B3	B3
C231	H1	C3	U130D	B3	B3
			U140	G5	B4
R011	G3	A1	U150*	D5	C0
R022	C1	A2	U200	C4	C0
R041	B2	A4	U210	C5	C1
R042	F2	A4	U220	C3	C2
R043	B4	A4	U230	C3	C2
R052	G2	F0	U300A	D4	D0
R100	B1	B0	U300B	D5	D0
R101	B1	B0	U320A	B6	D2
R111	G5	B1	U320B	B3	D2
R121	G5	B2	U320C	B3	D2
R141	G4	B4	U330A	C2	D3
R201	F2	C0	U330B	C2	D3
R222	G2	C2	U340A	E6	D4
R241	H1	C4	U340B	A1	D4
R511	G2	F1	U340C	B3	D4
R1001	G2	J0	U340D	B3	D4
			U430C	E1	E2
U020	E3	A0	U430D	E2	E3
U010	E5	A1	U430E	E2	E3
U020B	E4	A2	U430F	E1	E3
U020C	E6	A2	U430F	E1	E3
U020D	C2	A2	U440D	E2	E4
U030A	C3	A3	U440E	E2	E4
U030B	C3	A3	U440F	E2	E4
U030C	C4	A3	U440F	E2	E4
U030D	C4	A3	VR021	G5	A2
P/O A22 ASSY ALSO SHOWN ON (13)					

P/O A68 ASSY			CHARACTER GENERATOR (14)		
J448	A1	E4	J448	H1	E4
P/O A68 ASSY - SEE FIG. 7-37					

*See Parts List for serial number ranges.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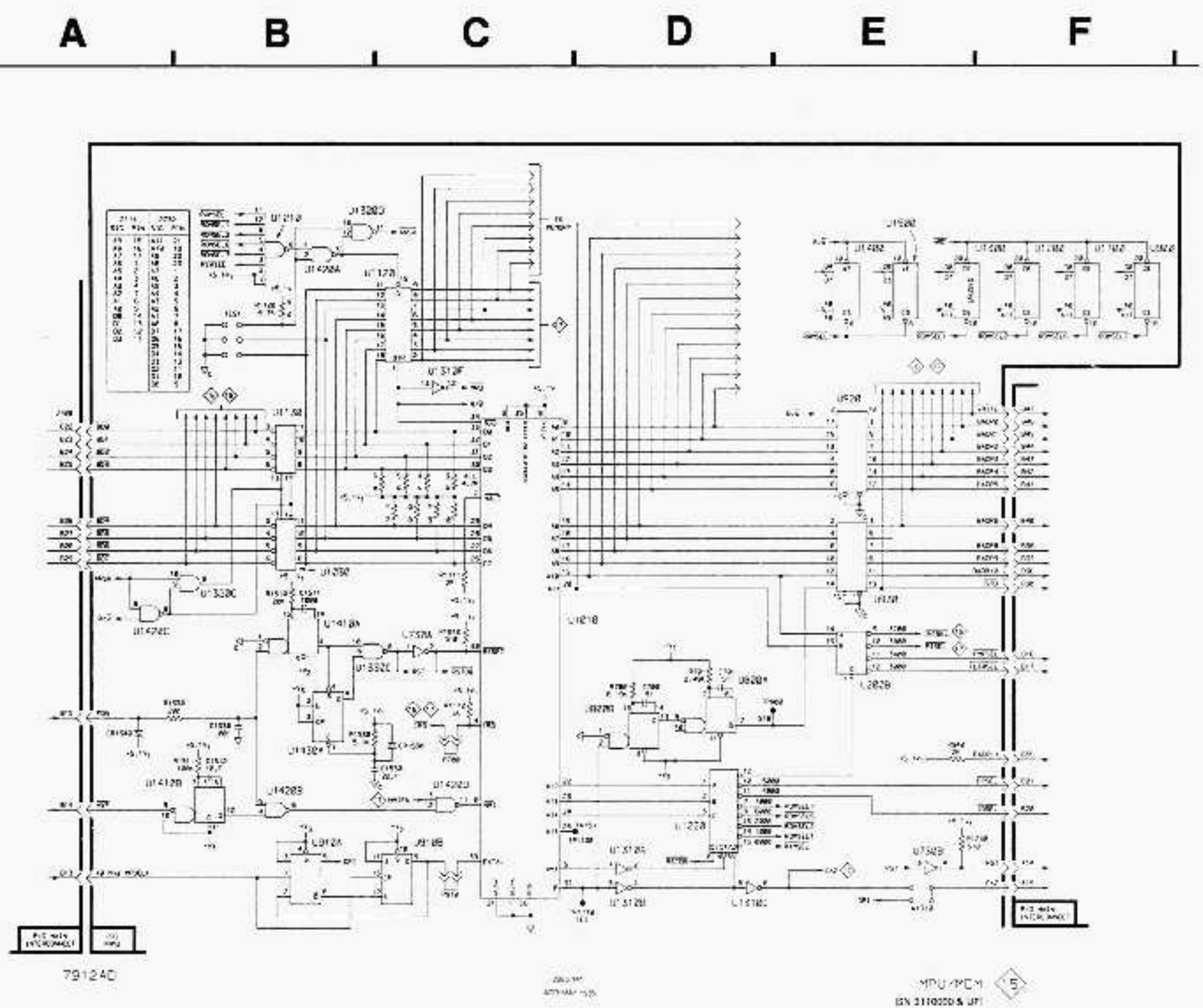
7912AD
8385-112
CHARACTER GENERATOR
14
A22


A
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791240
MPU/PCM
5

P/O A54 ASSY (SN B110000 & UP) — 6802 MPU (16)

Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location
C700	D4	E1	U800B	D4	F2
C701	D4	E2	U900	F1	G2
C1330	B4	J5	U910A	B4	G3
C1511	B3	L2	U910B	C4	G3
C1512	B4	L3	U920	E2	G4
C1530	C4	L5	U930	E3	G5
			U1010	C3	G3
CR1340	A4	J5	U1030	B3	G5
CR1530	C4	L5	U1120	B2	J3
			U1130	B2	J3
R700	D4	E1	U1200	F1	J2
R701	D4	E2	U1210	B1	J3
R940	E4	G5	U1220	D4	J4
R1111	C3	H2	U1300	F1	J2
R1112	C4	H3	U1310A	D4	K3
R1120	B2	H3	U1310B	D5	K3
R1240	E4	J5	U1310C	D5	K3
R1330	A4	J5	U1310F	C2	K3
R1510	B3	L3	U1320C	B3	K4
R1511	B4	L3	U1320D	B1	K4
R1530	B4	L5	U1330C	B3	K5
			U1400	E1	K2
TP800	D4	F2	U1410A	B3	K3
TP1110	D5	H3	U1410B	A4	K3
TP1130	D4	H4	U1420A	B1	K4
			U1420B	B4	K4
U200B	E4	B2	U1420C	A3	K4
U730A	C3	E5	U1420D	C4	K4
U730B	E4	E5	U1430A	B4	K5
U800A	D4	F2	U1600	F1	L2

P/O A54 ASSY (SN B110000 & UP) ALSO SHOWN ON (16) & (17)

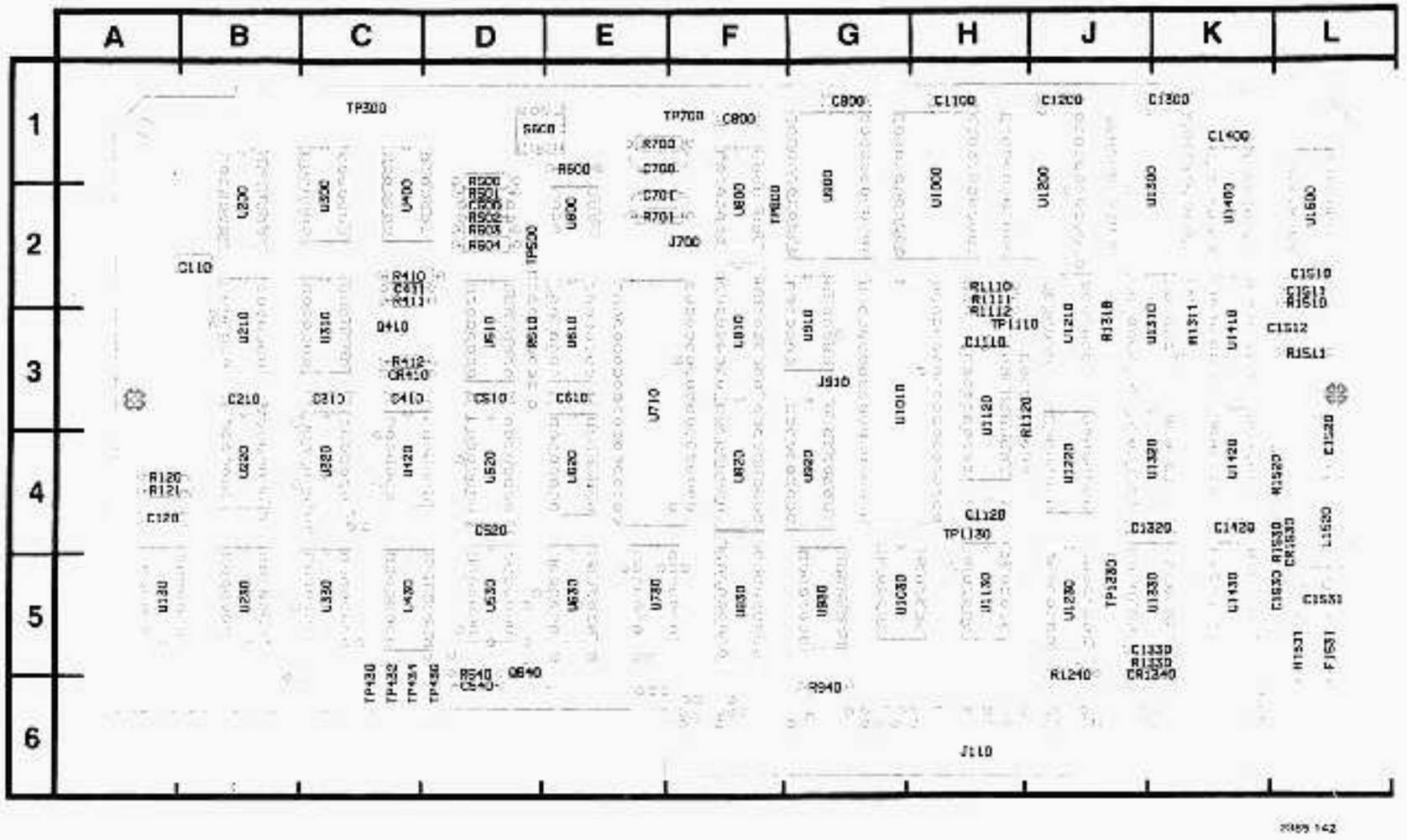
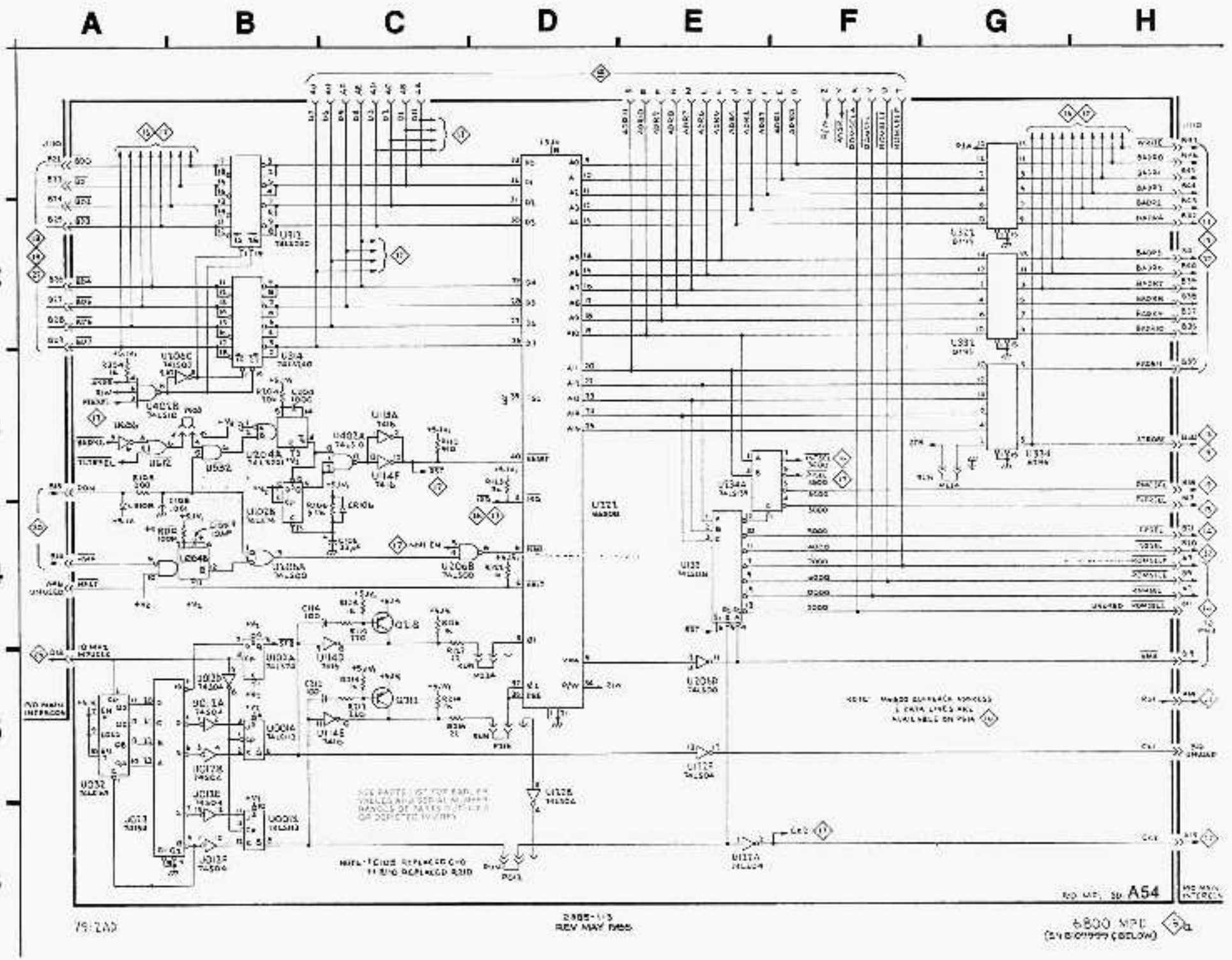


Fig. 7-20. The MPU circuit board, assembly A54 (SN B110000 & UP)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A54
6800 MPU
2305-03
REV MAY 1985

P/O A54 ASSY (SN B100827-B109999)					6800 MPU (15)E
Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location
C106	C4	A0	U001A	B5	A0
C108	A3	C0	U001B	B6	A0
C110	B4	C0	U012A	B5	A1
C114	B4	B1	U012B	B5	A1
C204	B3	C0	U012D	B5	A1
C212	C5	C1	U012E	B5	A1
CR105	C4	B0	U012F	B6	A1
CR108	A3	B0	U032	A6	A2
			U032	A5	A3
P012	D5	A2	U102A	B5	B0
P216	D5	C1	U102B	B4	B0
P224	D5	C2	U114A	C3	B1
P234	G3	C3	U114D	C4	B1
			U114E	C5	B1
Q212	C5	C1	U114F	C3	B1
Q218	C4	C1	U123A	E6	B2
R106	B4	B0	U123B	D5	B2
R108	A3	C0	U123F	E5	B2
R110	B4	C0	U132	E4	B3
R112	C3	B1	U204A	B3	C0
R114	C4	B1	U205A	B4	C0
R122	D4	B2	U206B	C4	C0
R123	D3	B2	U206C	B3	C0
R124	C4	B2	U206D	E5	C0
R125	C4	B2	U222	D4	C2
R127	C4	B2	U234A	E3	C3
R204	B3	C0	U312	B2	D1
R212	C5	C1	U314	B3	D1
R213	C5	C1	U322	G2	D2
R214	C5	C1	U332	G2	D3
R218	C5	C1	U334	G3	D3
R354	A3	D0	U402A	C3	E0
			U402B	A3	E0

P/O A54 ASSY (SN B100827-B109999) ALSO SHOWN ON (16)E & (17)E

P/O A68 ASSY					6800 MPU (15)E
J110	A1	B1	J110	H1	B1

P/O A68 ASSY - SEE FIG. 7-37

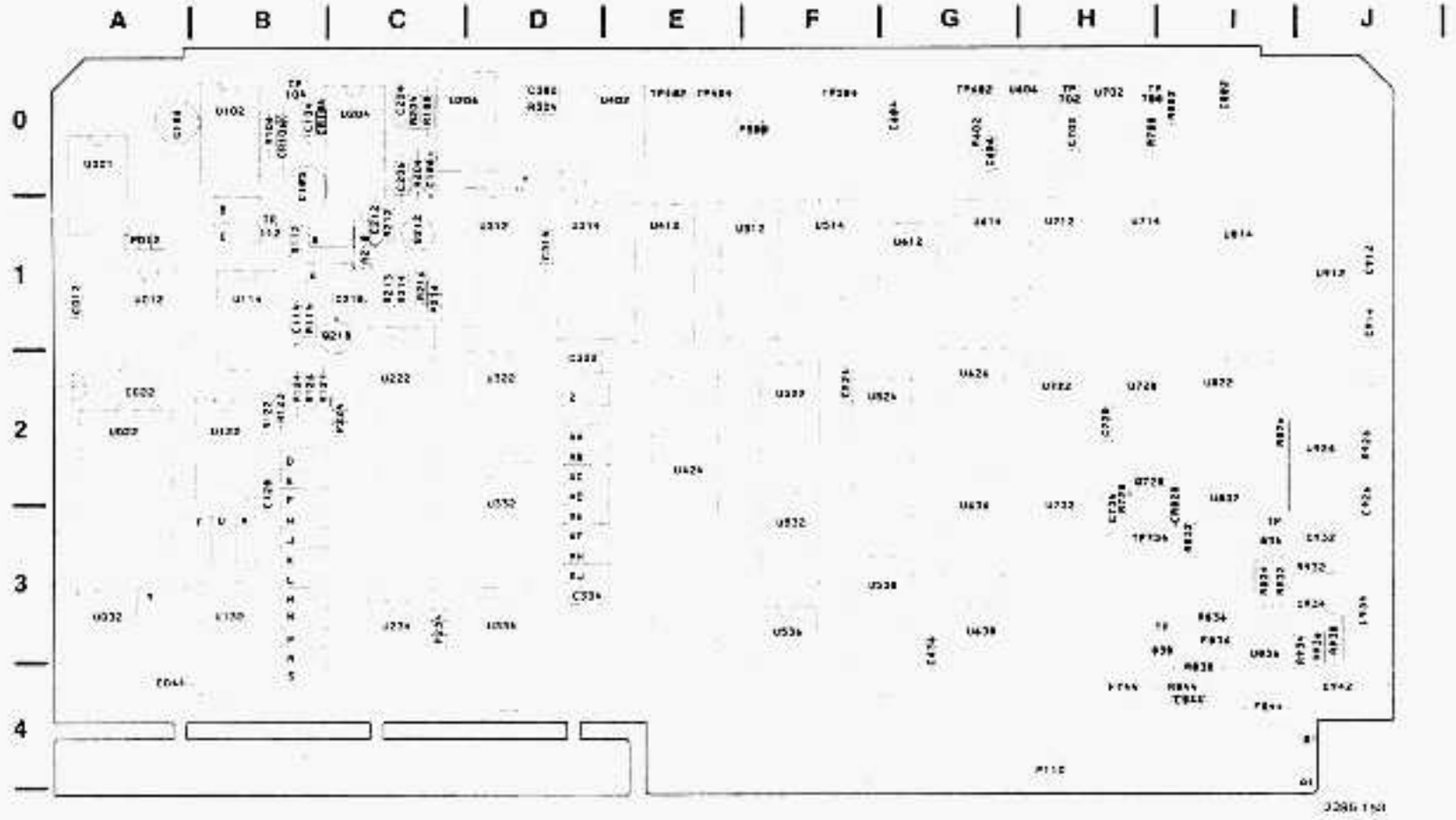


Fig. 7-20A. The MPU circuit board, assembly A64 (SN B100827-B109999).

COMPONENT NUMBER EXAMPLE

A23 A2 R1234

ISN B100827-B109999

P/O A54 ASSY (SN B100826 & below)				6800 MPU (15)	
Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location
C106	C4	B0	U001A	B6	A0
C108	A3	B0	U001B	B6	A0
C110	B4	C0	U012A	B5	A1
C114	B4	B1	U012B	B5	A1
C204	B3	C0	U012D	B5	A1
C212	C5	C1	U012E	B5	A1
CR106	C4	B0	U012F	B6	A0
CR108	A3	B0	U022	A6	A2
			U032	A5	A3
P012	D6	A1	U102A	B5	B0
P216	D6	C1	U102B	B4	B0
P224	D6	C2	U114A	C3	B1
P234	G3	C3	U114D	C4	B1
			U114E	C5	B1
Q212	C6	C1	U114F	C3	B1
Q216	C4	C1	U122A	E6	B2
R105	B4	B0	U122B	D5	B2
R108	A3	C0	U122F	E6	B2
R110	B4	C0	U132	E4	B3
R112	C3	B1	U204A	B3	C0
R114	C4	B1	U205A	B4	C0
R122	D4	B2	U205B	C4	C0
R123	D3	B2	U205C	B3	C0
R124	C4	B2	U205D	E5	C0
R126	C4	B2	U222	D4	C2
R127	C4	B2	U234A	E3	C3
R204	B3	C0	U312	B2	D1
R212	C6	C1	U314	B3	D1
R213	C6	C1	U322	G2	D2
R214	C6	C1	U332	G2	D3
R216	C5	C1	U334	G3	D3
R304	A3	D0	U402A	C3	D0
			U402B	A3	D0

P/O A54 ASSY (SN B100826 & BELOW) ALSO SHOWN ON (16) & (17)

P/O A68 ASSY				6800 MPU (57)	
J110	A1	B1	J116	H1	B1

P/O A68 ASSY - SEE FIG. 7-37

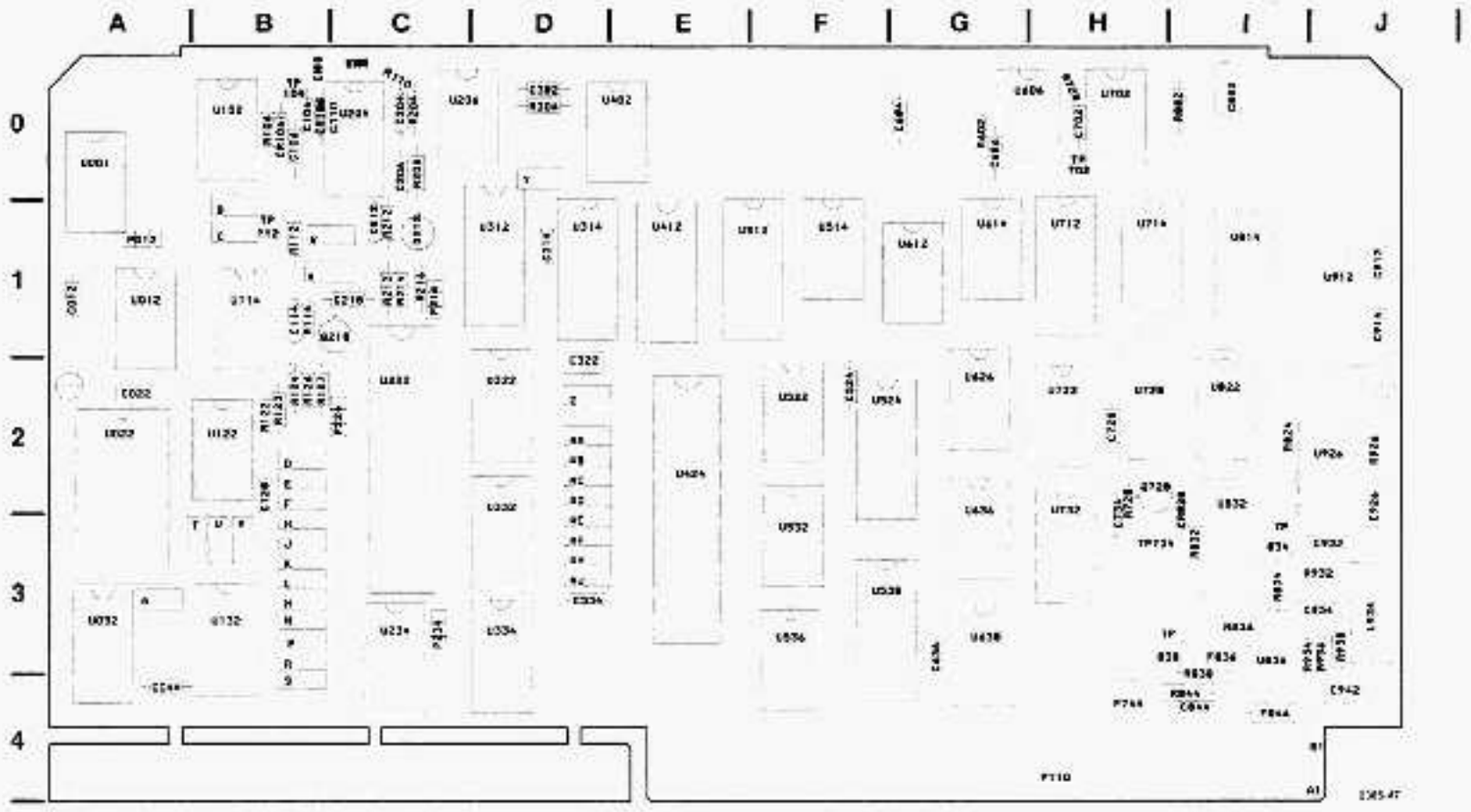
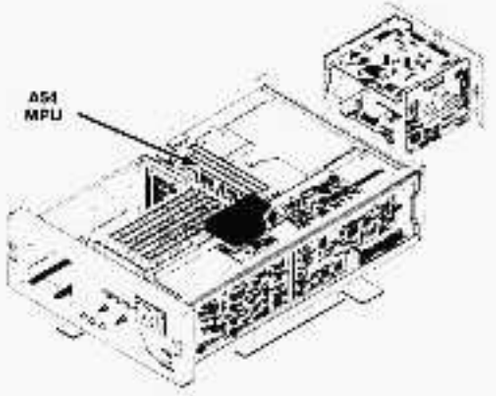
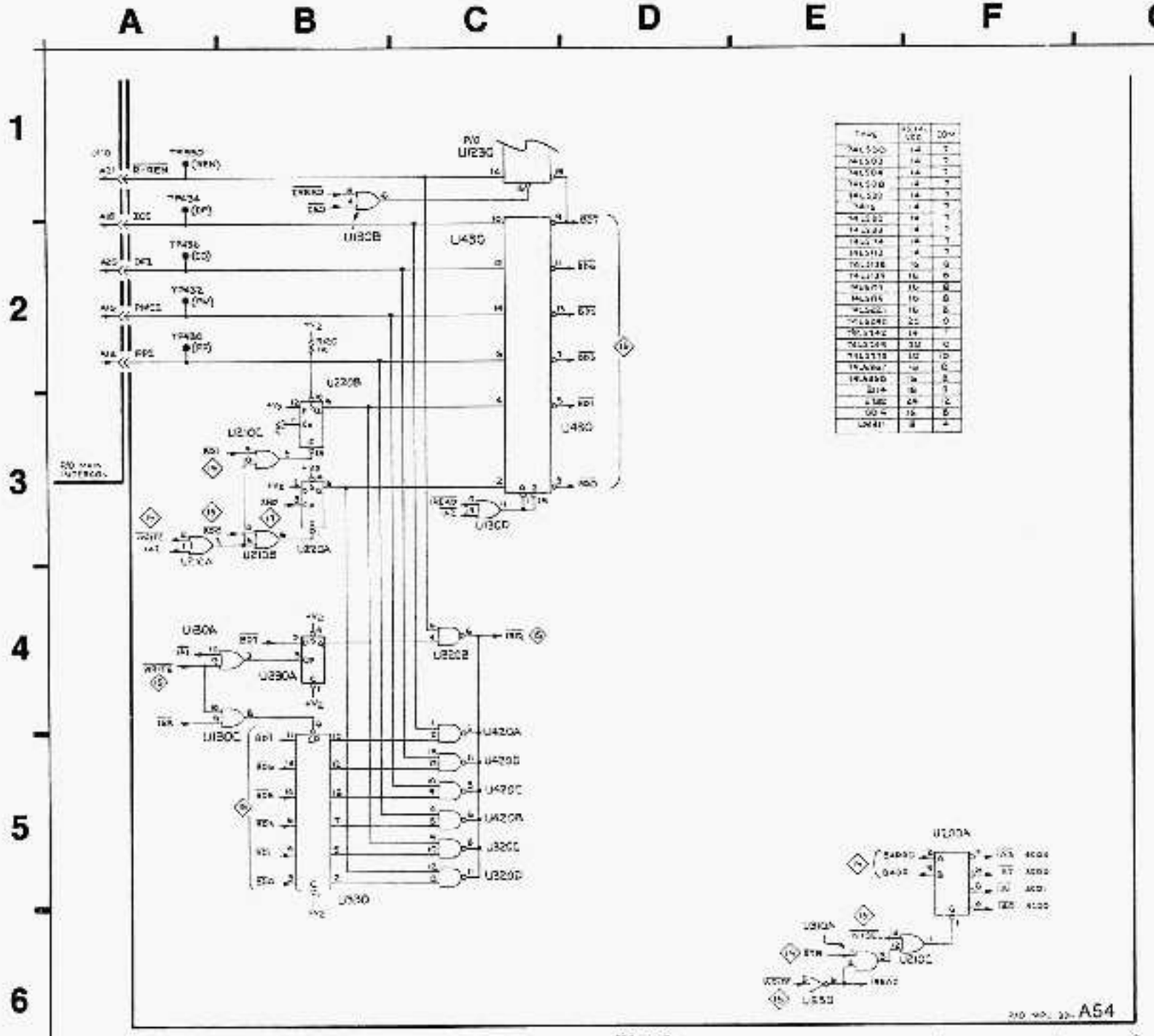


Fig. 7-21. The MPU circuit board, assembly A54 (SN B100326 & below).



COMPONENT NUMBER EXAMPLE


A
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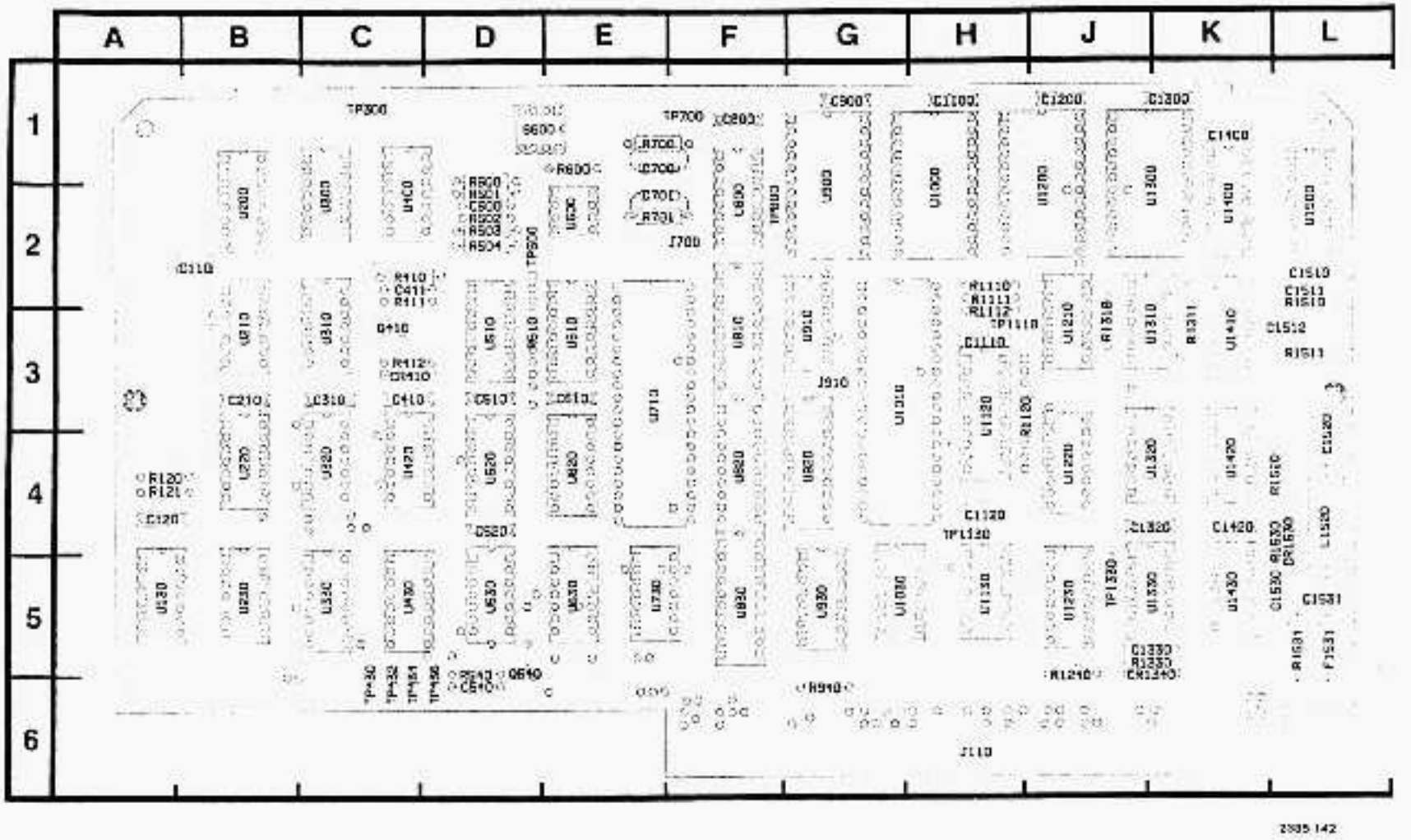
U23G
U23B
U45D
U22B
U21C
U21B
U21A
U22A
U23C
U23A
U30A
U30C
U42OA
U42OB
U42OC
U42OD
U32OC
U32OD
U30D
U23D
U21D
U55D
A54
6802 INTERRUPT CONTROL
(SN #110000 & UP)
(16)

P/O A54 ASSY (SN B110000 & UP)

8802 INTERRUPT CONTROL (15)

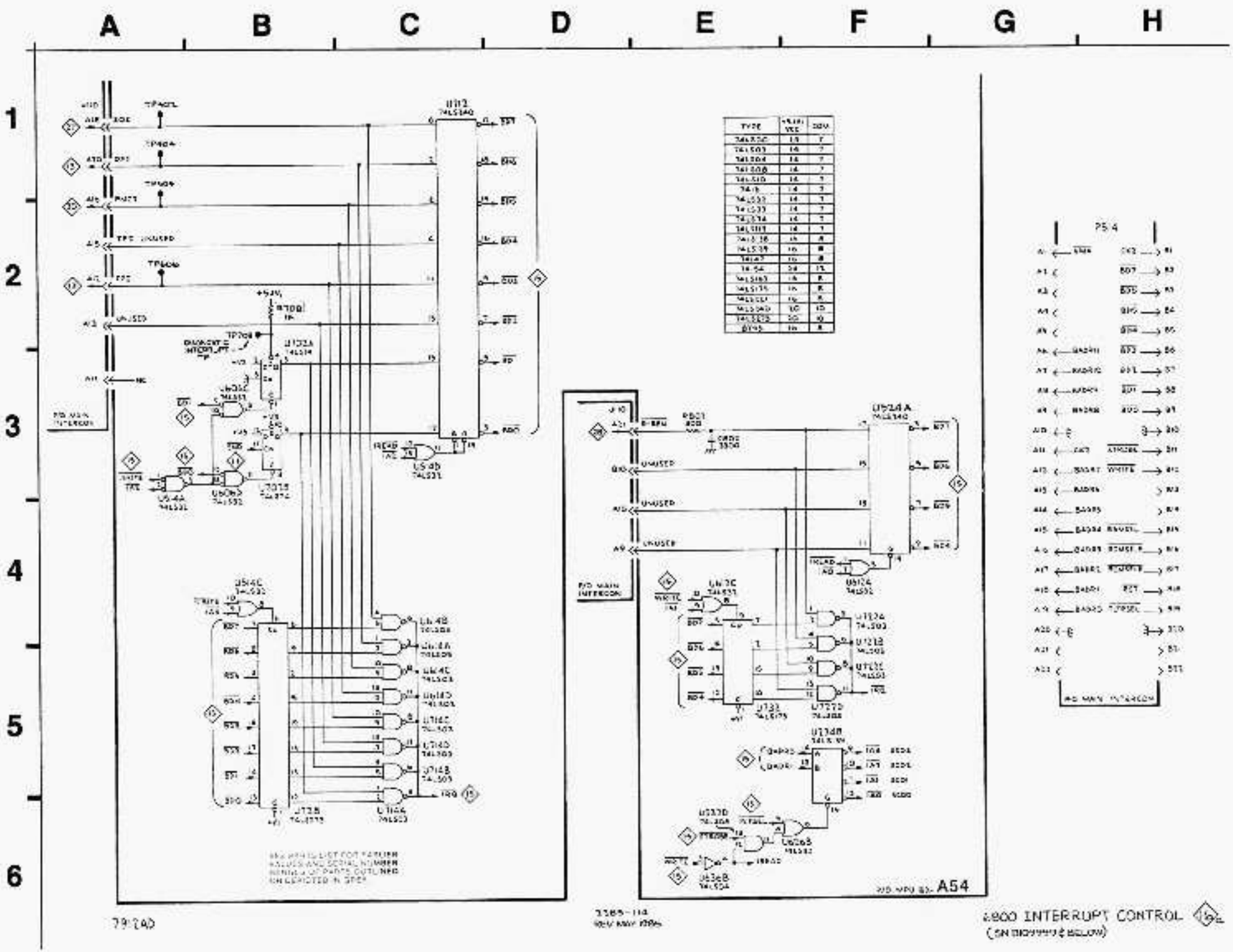
Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location
R120	B2	A4	U220A	B3	B4
			U220B	B2	B4
TP430	A2	C6	U230A	B4	B5
TP433	A2	C6	U310A	E6	C3
TP434	A1	C6	U320B	C4	C4
TP436	A2	B6	U320C	C5	C4
TP1330	A1	J5	U320D	C5	C4
			U330	B5	C5
U130A	A4	A5	U420A	C4	C4
U130B	B2	A5	U420B	C5	C4
U130C	A5	A5	U420C	C5	C4
U130D	C3	A5	U420D	C5	C4
U200A	F5	B2	U430	C2	C5
U210A	A3	B3	U430	D3	C5
U210B	B3	B3	U530	E6	D5
U210C	B3	B3	U1230	C1	J5
U210D	F6	B3			

P/O A54 ASSY (SN B110000 & UP) ALSO SHOWN ON (15) & (17)



2585 142

Fig. 7-20. The MPU circuit board, assembly A54 (SN B110000 & UP)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U112
74LS540
TP40A
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TP40WW
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TP40BBB
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TP40EEE
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TP40JJJ
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TP40LLL
TP40MMM
TP40NNN
TP40PPP
TP40RRR
TP40SSS
TP40TTT
TP40UUU
TP40VVV
TP40WWW
TP40XXX
TP40YYY
TP40ZZZ
TP40AAAA
TP40BBBB
TP40CCCC
TP40DDDD
TP40EEEE
TP40FFFF
TP40GGGG
TP40HHHH
TP40JJJJ
TP40KKKK
TP40LLLL
TP40MMMM
TP40NNNN
TP40PPPP
TP40RRRR
TP40SSSS
TP40TTTT
TP40UUUU
TP40VVVV
TP40WWWW
TP40XXXX
TP40YYYY
TP40ZZZZ
TP40AAAAA
TP40BBBBB
TP40CCCCC
TP40DDDDD
TP40EEEEE
TP40FFFFF
TP40GGGGG
TP40HHHHH
TP40JJJJJ
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TP40LLLLL
TP40MMMMM
TP40NNNNN
TP40PPPPP
TP40RRRRR
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TP40EEEEEE
TP40FFFFFF
TP40GGGGGG
TP40HHHHHH
TP40JJJJJJ
TP40KKKKKK
TP40LLLLLL
TP40MMMMMM
TP40NNNNNN
TP40PPPPPP
TP40RRRRRR
TP40SSSSSS
TP40TTTTTT
TP40UUUUUU
TP40VVVVVV
TP40WWWWWW
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TP40YYYYYY
TP40ZZZZZZ
TP40AAAAAAA
TP40BBBBBBB
TP40CCCCCCC
TP40DDDDDDD
TP40EEEEEEE
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TP40GGGGGGG
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TP40SSSSSSS
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TP40UUUUUUU
TP40VVVVVVV
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TP40FFFFFFFF
TP40GGGGGGGG
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TP40MMMMMMMM
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TP40BBBBBBBBBBB
TP40CCCCCCCCCCC
TP40DDDDDDDDDDD
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TP40FFFFFFFFFFF
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TP40LLLLLLLLLLL
TP40MMMMMMMMMMM
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TP40SSSSSSSSSSS
TP40TTTTTTTTTTT
TP40UUUUUUUUUUU
TP40VVVVVVVVVVV
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TP40YYYYYYYYYYY
TP40ZZZZZZZZZZZ
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TP40DDDDDDDDDDDD
TP40EEEEEEEEEEEE
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TP40RRRRRRRRRRRR
TP40SSSSSSSSSSSS
TP40TTTTTTTTTTTT
TP40UUUUUUUUUUUU
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TP40ZZZZZZZZZZZZ
TP40AAAAAAAAAAAAA
TP40BBBBBBBBBBBBB
TP40CCCCCCCCCCCCC
TP40DDDDDDDDDDDDD
TP40EEEEEEEEEEEEE
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TP40GGGGGGGGGGGGG
TP40HHHHHHHHHHHHH
TP40JJJJJJJJJJJJJ
TP40KKKKKKKKKKKKK
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TP40MMMMMMMMMMMMM
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TP40TTTTTTTTTTTTT
TP40UUUUUUUUUUUUU
TP40VVVVVVVVVVVVV
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TP40BBBBBBBBBBBBBB
TP40CCCCCCCCCCCCCC
TP40DDDDDDDDDDDDDD
TP40EEEEEEEEEEEEEE
TP40FFFFFFFFFFFFFF
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TP40JJJJJJJJJJJJJJ
TP40KKKKKKKKKKKKKK
TP40LLLLLLLLLLLLLL
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TP40NNNNNNNNNNNNNN
TP40PPPPPPPPPPPPPP
TP40RRRRRRRRRRRRRR
TP40SSSSSSSSSSSSSS
TP40TTTTTTTTTTTTTT
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TP40NNNNNNNNNNNNNNN
TP40PPPPPPPPPPPPPPP
TP40RRRRRRRRRRRRRRR
TP40SSSSSSSSSSSSSSS
TP40TTTTTTTTTTTTTTT
TP40UUUUUUUUUUUUUUU
TP40VVVVVVVVVVVVVVV
TP40WWWWWWWWWWWWWWW
TP40XXXXXXXXXXXXXXX
TP40YYYYYYYYYYYYYYY
TP40ZZZZZZZZZZZZZZZ
TP40AAAAAAAAAAAAAAAA
TP40BBBBBBBBBBBBBBBB
TP40CCCCCCCCCCCCCCCC
TP40DDDDDDDDDDDDDDDD
TP40EEEEEEEEEEEEEEEE
TP40FFFFFFFFFFFFFFFF
TP40GGGGGGGGGGGGGGGG
TP40HHHHHHHHHHHHHHHH
TP40JJJJJJJJJJJJJJJJ
TP40KKKKKKKKKKKKKKKK
TP40LLLLLLLLLLLLLLLL
TP40MMMMMMMMMMMMMMMM
TP40NNNNNNNNNNNNNNNN
TP40PPPPPPPPPPPPPPPP
TP40RRRRRRRRRRRRRRRR
TP40SSSSSSSSSSSSSSSS
TP40TTTTTTTTTTTTTTTT
TP40UUUUUUUUUUUUUUUU
TP40VVVVVVVVVVVVVVVV
TP40WWWWWWWWWWWWWWWW
TP40XXXXXXXXXXXXXXXX
TP40YYYYYYYYYYYYYYYY
TP40ZZZZZZZZZZZZZZZZ
TP40AAAAAAAAAAAAAAAAA
TP40BBBBBBBBBBBBBBBBB
TP40CCCCCCCCCCCCCCCCC
TP40DDDDDDDDDDDDDDDDD
TP40EEEEEEEEEEEEEEEEE
TP40FFFFFFFFFFFFFFFFF
TP40GGGGGGGGGGGGGGGGG
TP40HHHHHHHHHHHHHHHHH
TP40JJJJJJJJJJJJJJJJJ
TP40KKKKKKKKKKKKKKKKK
TP40LLLLLLLLLLLLLLLLL
TP40MMMMMMMMMMMMMMMMM
TP40NNNNNNNNNNNNNNNNN
TP40PPPPPPPPPPPPPPPPP
TP40RRRRRRRRRRRRRRRRR
TP40SSSSSSSSSSSSSSSSS
TP40TTTTTTTTTTTTTTTTT
TP40UUUUUUUUUUUUUUUUU
TP40VVVVVVVVVVVVVVVVV
TP40WWWWWWWWWWWWWWWWW
TP40XXXXXXXXXXXXXXXXX
TP40YYYYYYYYYYYYYYYYY
TP40ZZZZZZZZZZZZZZZZZ
TP40AAAAAAAAAAAAAAAAAA
TP40BBBBBBBBBBBBBBBBBB
TP40CCCCCCCCCCCCCCCCCC
TP40DDDDDDDDDDDDDDDDDD
TP40EEEEEEEEEEEEEEEEEE
TP40FFFFFFFFFFFFFFFFFF
TP40GGGGGGGGGGGGGGGGGG
TP40HHHHHHHHHHHHHHHHHH
TP40JJJJJJJJJJJJJJJJJJ
TP40KKKKKKKKKKKKKKKKKK
TP40LLLLLLLLLLLLLLLLLL
TP40MMMMMMMMMMMMMMMMMM
TP40NNNNNNNNNNNNNNNNNN
TP40PPPPPPPPPPPPPPPPPP
TP40RRRRRRRRRRRRRRRRRR
TP40SSSSSSSSSSSSSSSSSS
TP40TTTTTTTTTTTTTTTTTT
TP40UUUUUUUUUUUUUUUUUU
TP40VVVVVVVVVVVVVVVVVV
TP40WWWWWWWWWWWWWWWWWW
TP40XXXXXXXXXXXXXXXXXX
TP40YYYYYYYYYYYYYYYYYY
TP40Z

P/O A64 ASSY ISN B109999 & BELOW) — 6800 INTERRUPT CONTROL (16)A

Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location
C802	E3	I0	U614D	C5	G1
R709	B2	H0	U626B	E4	G2
R802	C3	I0	U636B	E6	G3
U234B	F5	C3	U702A	B3	H0
U514A	A3	F1	U702B	B3	H0
U514C	B4	F1	U712	C1	H1
U514D	C3	F1	U714A	C5	H1
U524A	F3	F2	U714B	C5	H1
U532D	E6	F3	U714C	C5	H1
U606C	B3	G0	U714D	C5	H1
U606D	B3	G0	U722A	F4	H2
U612A	F4	G1	U722B	F4	H2
U612C	E4	G1	U722C	F5	H2
U614A	C4	G1	U722D	F5	H2
U614B	C4	G1	U728	B5	H2
U614C	C5	G1	U732	E5	H3

P/O A54 ASSY ISN B109999 & BELOW) ALSO SHOWN ON (15)A & (17)A

P/O A68 ASSY — 6800 INTERRUPT CONTROL (16)A

J110 J110	A1 D3	A1 A1	P514	G2	F9

P/O A68 ASSY - SEE FIG. 7-37

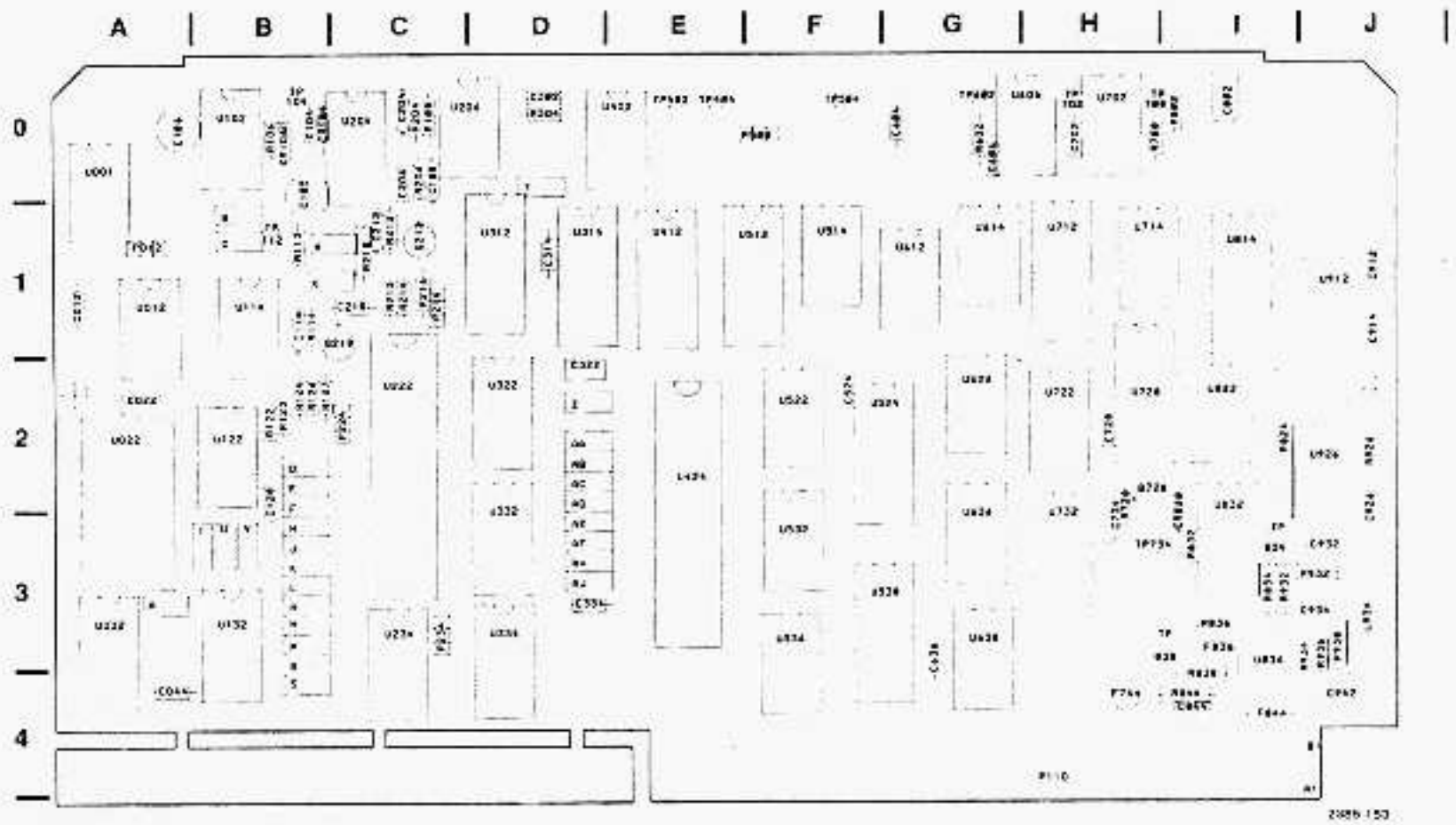
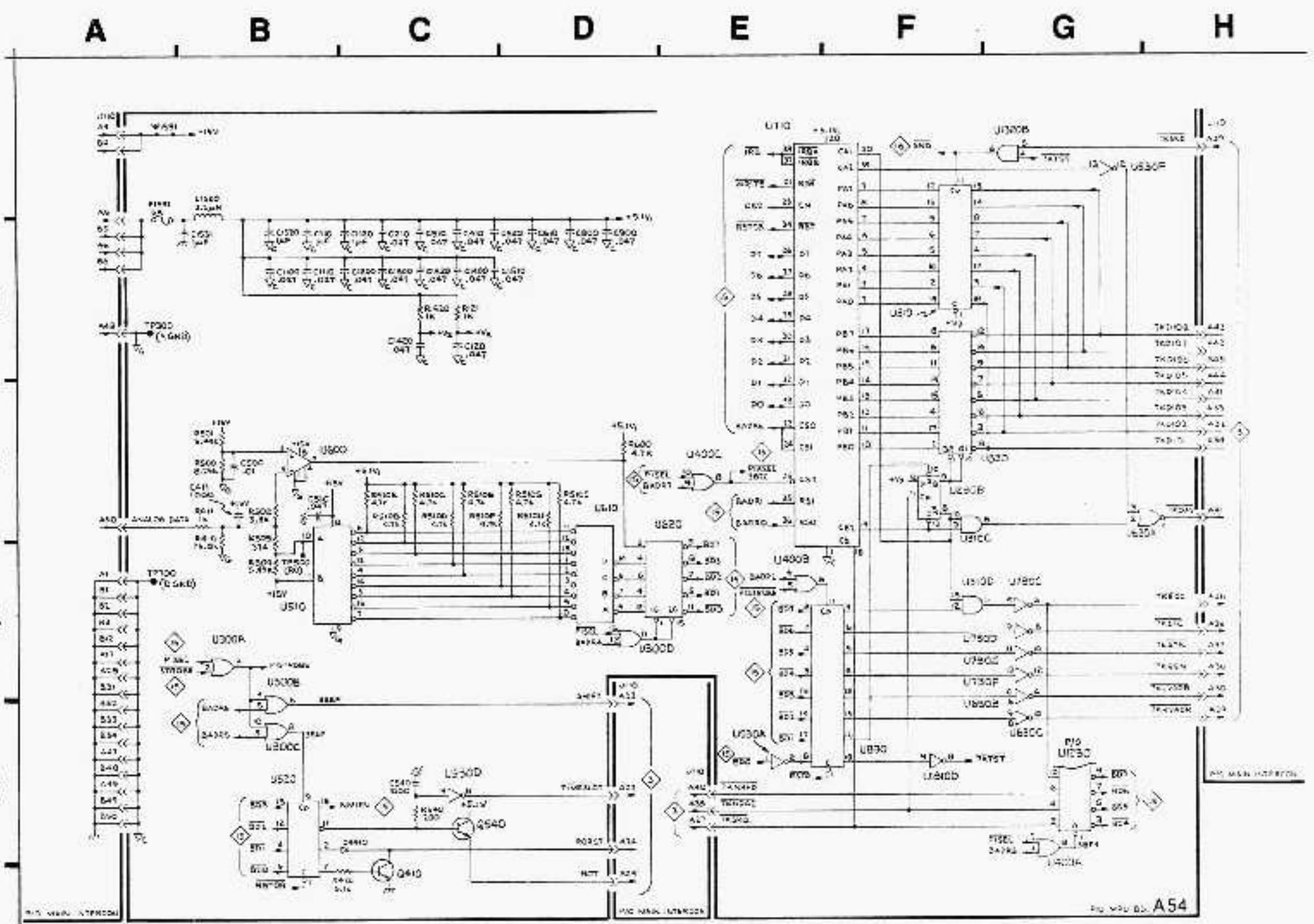


Fig. 7-20A. The MPU circuit board, assembly A54 (SN 5100527-5109559).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U2500
U2600
U2700
U2800
U2900
U3000
U3100
U3200
U3300
U3400
U3500
U3600
U3700
U3800
U3900
U4000
U4100
U4200
U4300

P/O A54 ASSY ISN B110000 & UP

READOUT/7K INTERFACE 17

Circuit Number	Schematic Location	Board Location
C110	B2	B2
C120	C2	A4
C210	C2	B3
C310	C2	C3
C410	C2	C3
C411	B3	C3
C500	B3	D2
C510	B3	D3
C520	B2	D4
C540	C5	D6
C610	B2	E3
C800	D2	F1
C900	D2	G1
C1100	B2	H1
C1110	B2	H3
C1120	C2	H4
C1200	C2	J1
C1300	C2	K1
C1320	C2	J4
C1400	C2	K1
C1420	C2	K4
C1510	B2	L2
C1520	B2	L4
CR410	C5	C3
L1520	B2	L4
Q410	C6	C3
Q540	C5	D5
R121	C2	A4
R410	B3	C2
R411	B3	C2
R412	B6	C3
R500	B3	D2
R501	B3	D2
R502	B3	D2
R503	B3	D2
R504	B4	D2
R510A	C3	D3
R510B	C3	D3
R510C	C3	D3
R510D	C3	D3
R510E	C3	D3
R510F	C3	D3
R510G	D3	D3
R510H	D3	D3
R510I	D3	D3
R540	C5	D5
R600	D3	E1
R1520	C2	L4
TP300	A2	C1
TP500	B4	D2
TP700	A4	F1
U210B	F3	B5
U300A	B4	C2
U300B	B4	C2
U300C	B5	C2
U300D	D4	C2
U310C	F3	C3
U310D	F4	C3
U400A	G5	C2
U400B	E4	C2
U400C	E3	C2
U510	B4	D3
U520	B5	D4
U530A	E5	D5
U530D	C5	D5
U530F	H3	D5
U600	B3	E2
U610	D3	E3
U620	E3	E4
U630A	H4	E5
U630B	F5	E5
U630C	G5	E5
U710	E1	E3
U720C	G4	E5
U720D	F4	E5
U720E	F4	E6
U720F	F4	E5
U810	F2	F3
U820	G3	F4
U830	F5	F5
U1230	G5	J5
U1310D	F5	J3
U1320B	G1	J4

P/O A54 ASSY ISN B110000 & UP ALSO SHOWN ON 15 & 16

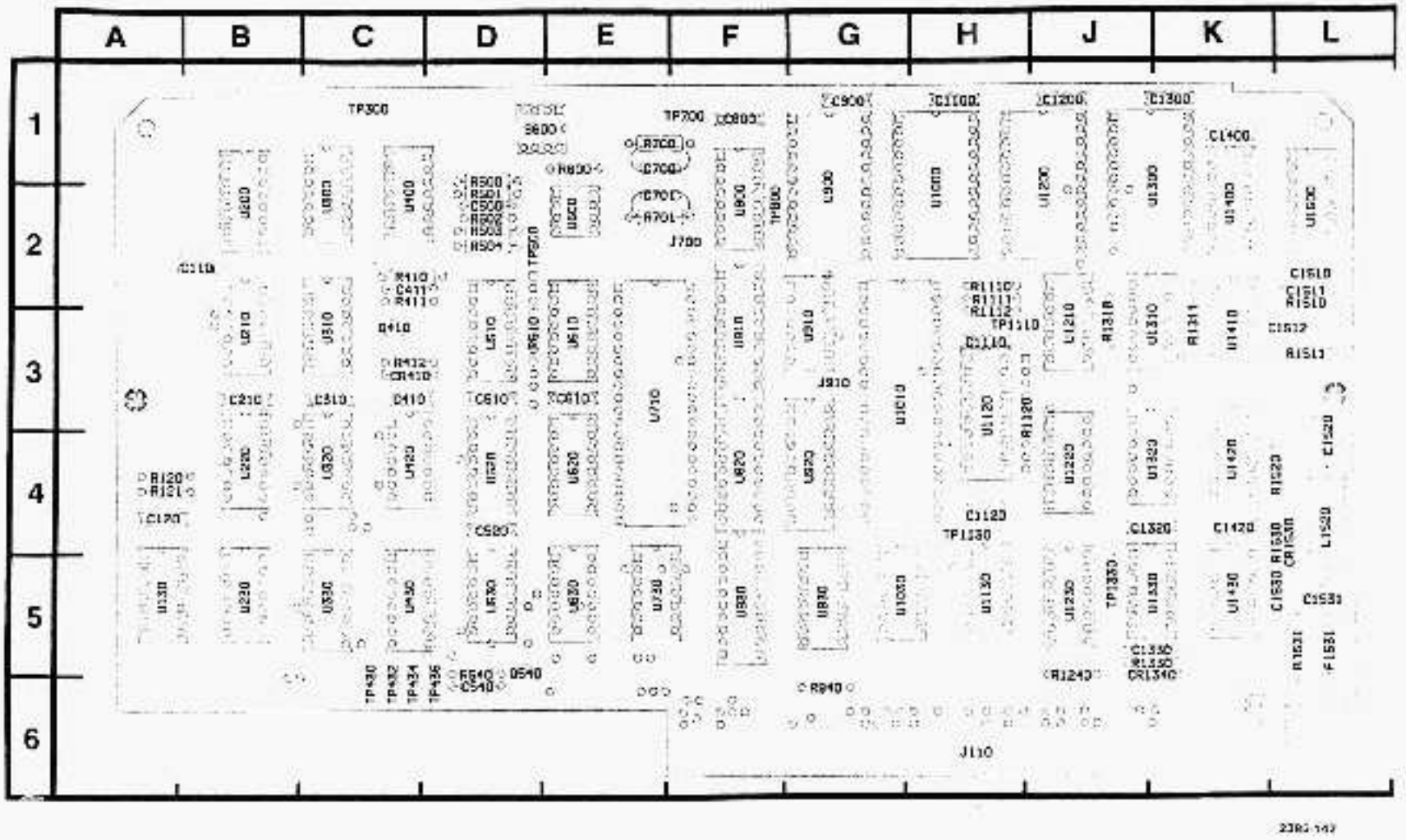
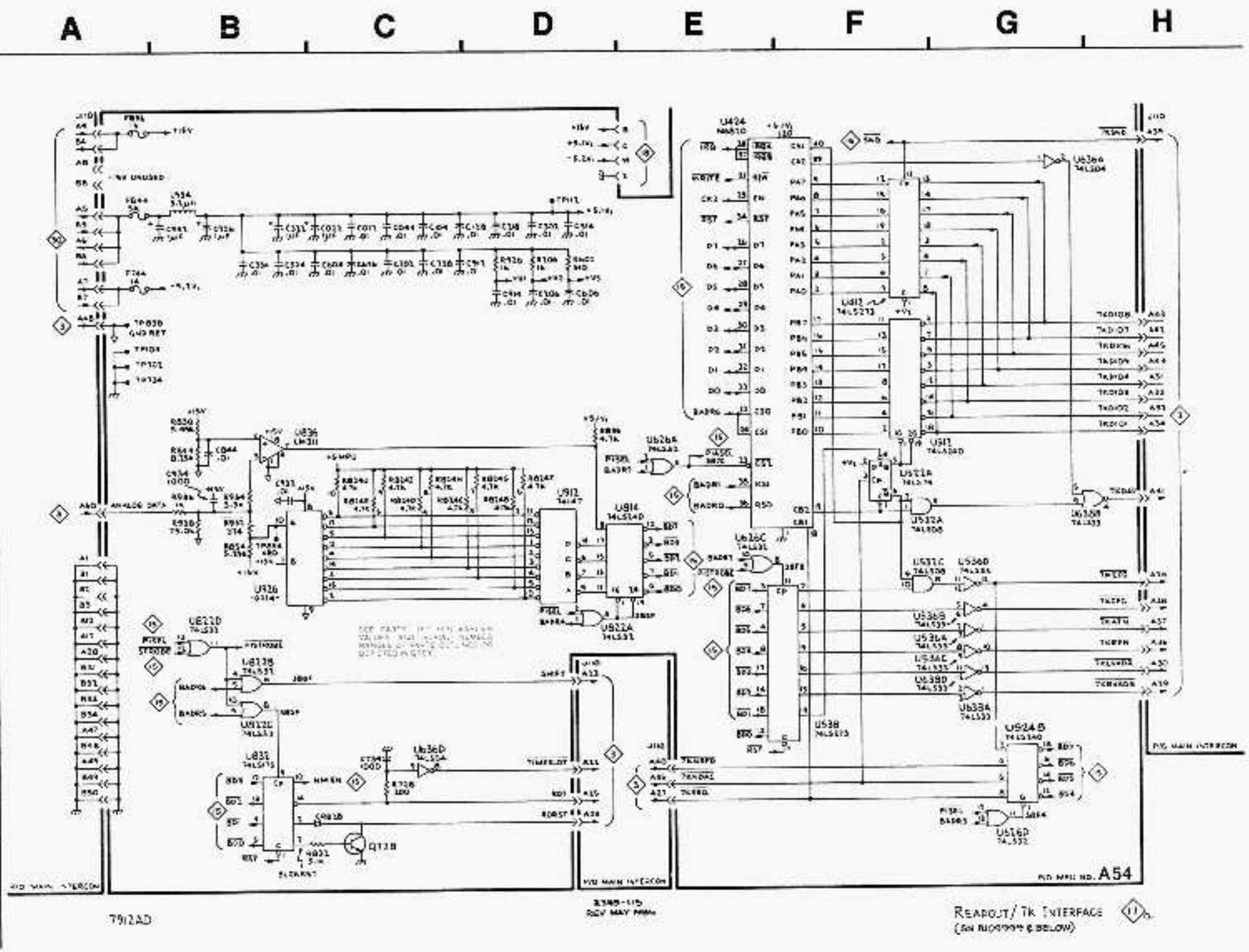


Fig. 7-20. The MPU circuit board, assembly A56 (SN B110000 & UP)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7912AD
A54
READOUT/TK INTERFACE
(SN B099999 & BELOW)

P/O A54 ASSY ISN B100999 & BELOW)

READOUT/7K INTERFACE 17

Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location
C012	C2	A1	R832	C6	I3
C022	C2	A2	R834	B4	I3
C044	C2	A4	R836	D3	I3
C104	C2	B0	R838	B3	I3
C128	C2	B2	R844	B3	I4
C205	D2	C0	R926	D2	J2
C218	D2	C1	R932	B3	I3
C302	D2	D0	R934	B3	J3
C314	D2	D1	R936	B3	J3
C322	B2	D2	R938	B3	J3
C334	B2	D3			
C524	B2	F2			
C604	C2	G0	TP104	A2	B0
C606	D2	G0	TP112	D1	B1
C636	C2	G3	TP702	A2	H0
C722	C2	H0	TP734	A3	H3
C728	C2	H2	TP834	B4	I3
C734	C5	H3	TP838	A2	I3
C844	B3	I4			
C912	C2	J1	U412	F2	E1
C914	D2	J1	U424	E1	E2
C926	B2	J2	U512	F3	F1
C932	B3	J3	U522A	F3	F2
C934	B3	J3	U524B	G5	F2
C942	B2	J4	U532A	F3	F3
			U532C	F4	F3
CR828	C5	I3	U536A	G4	F3
			U536B	G4	F3
F764	A2	H4	U536C	G4	F3
F826	A1	I3	U536D	G4	F3
F844	A1	I4	U538	F5	G2
			U626A	E3	G2
L934	B1	J3	U626C	E4	G2
			U626D	G5	G2
Q728	C6	H2	U636A	G1	G3
			U636D	C5	G3
R206	D2	C0	U638A	G5	G3
R602	D2	C0	U638B	H3	G3
R728	C5	H2	U638D	G4	G3
R824B	D3	I2	U814	E4	I1
R824C	C3	I2	U822A	D4	I2
R824D	C3	I2	U822B	B4	I2
R824E	C3	I2	U822C	B5	I2
R824F	D3	I2	U822D	B4	I2
R824G	D3	I2	U832	B5	I3
R824H	C3	I2	U836	B3	I3
R824I	C3	I2	U912	D3	J1
R824J	C3	I2	U926	B4	J2

P/O A54 ASSY ISN B100999 & BELOW) ALSO SHOWN ON 16 & 18

P/O A66 ASSY

READOUT/7K INTERFACE 17

J110 J110	A1 D4	A1 A1	J110	H1	A1

P/O A68 ASSY - SEE FIG. 7-37

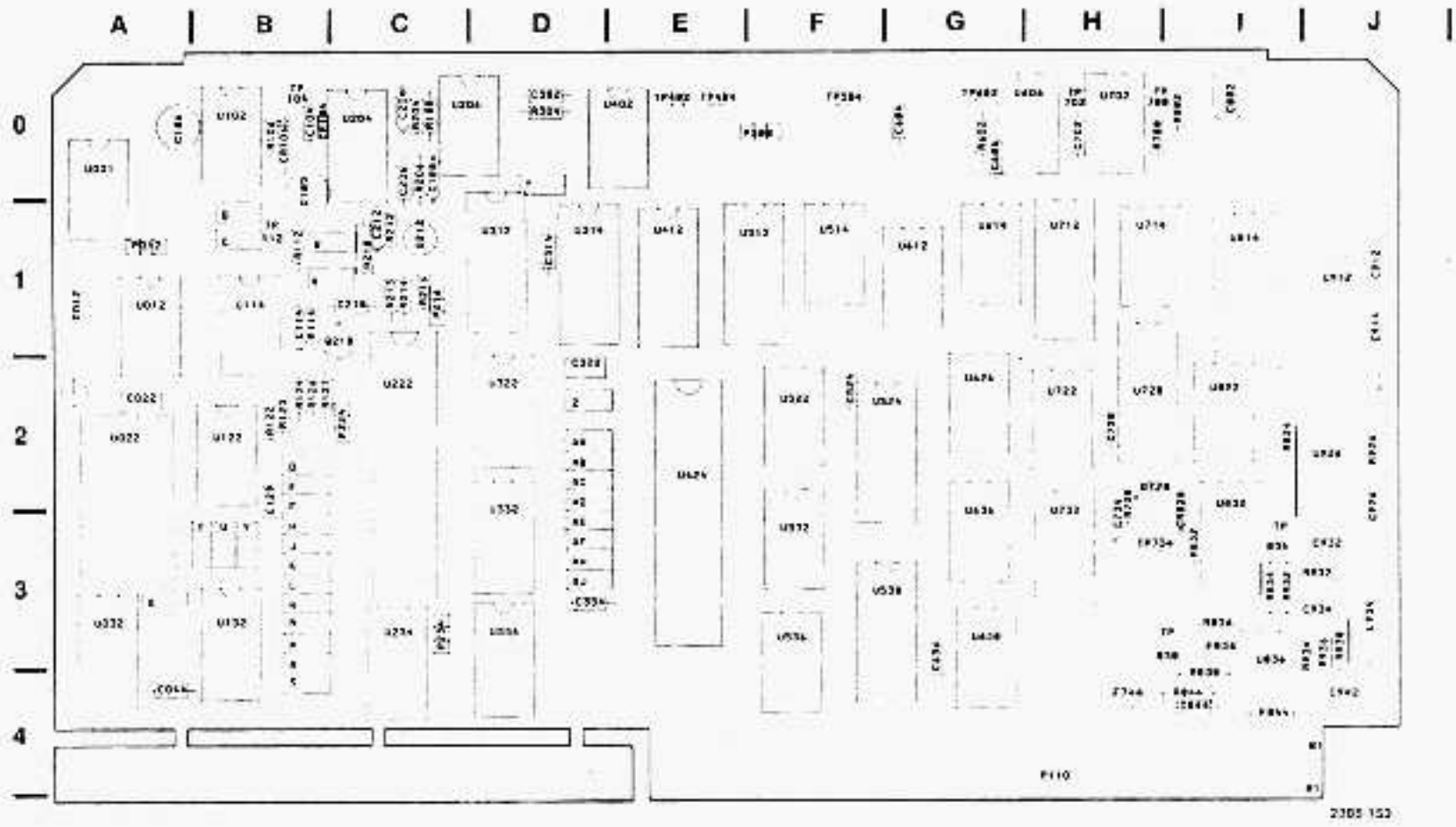


Fig. 7-20A. The MPU circuit board, assembly A54 (SN B100827-B100939).

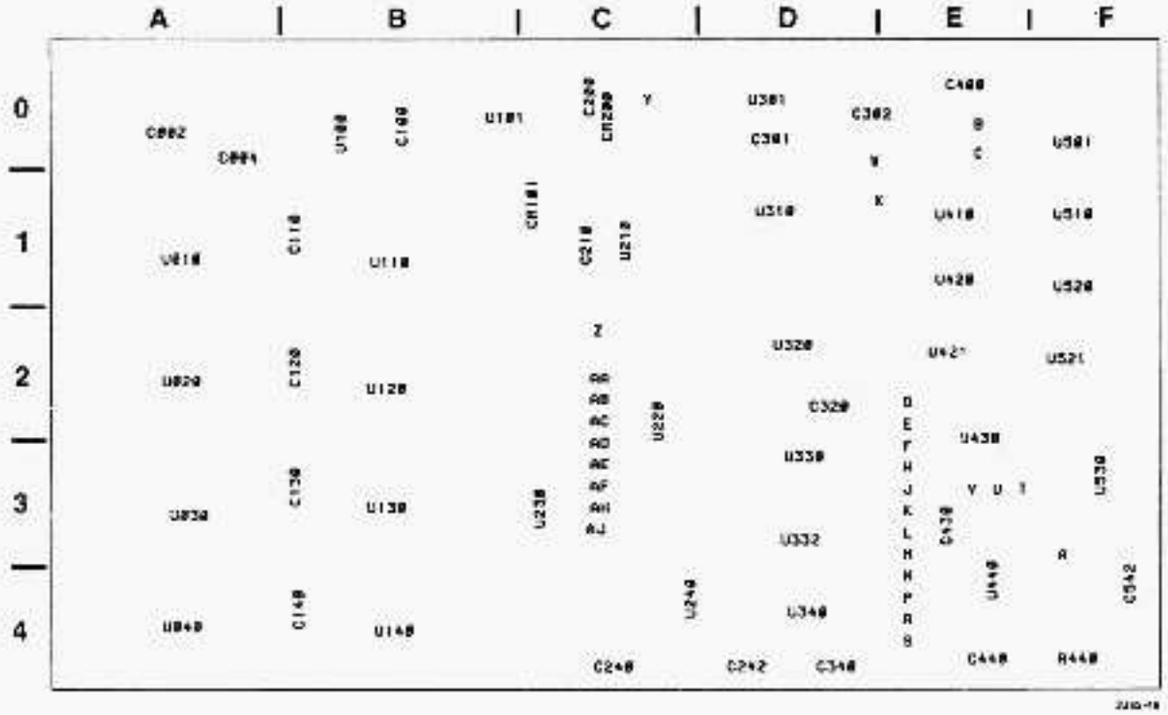
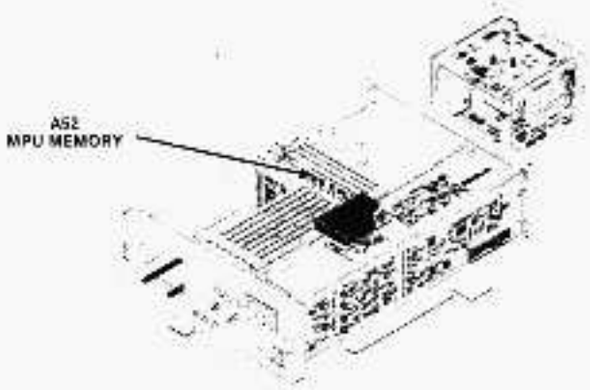


Fig. 7-23. The MPU Memory circuit board, assembly A52.

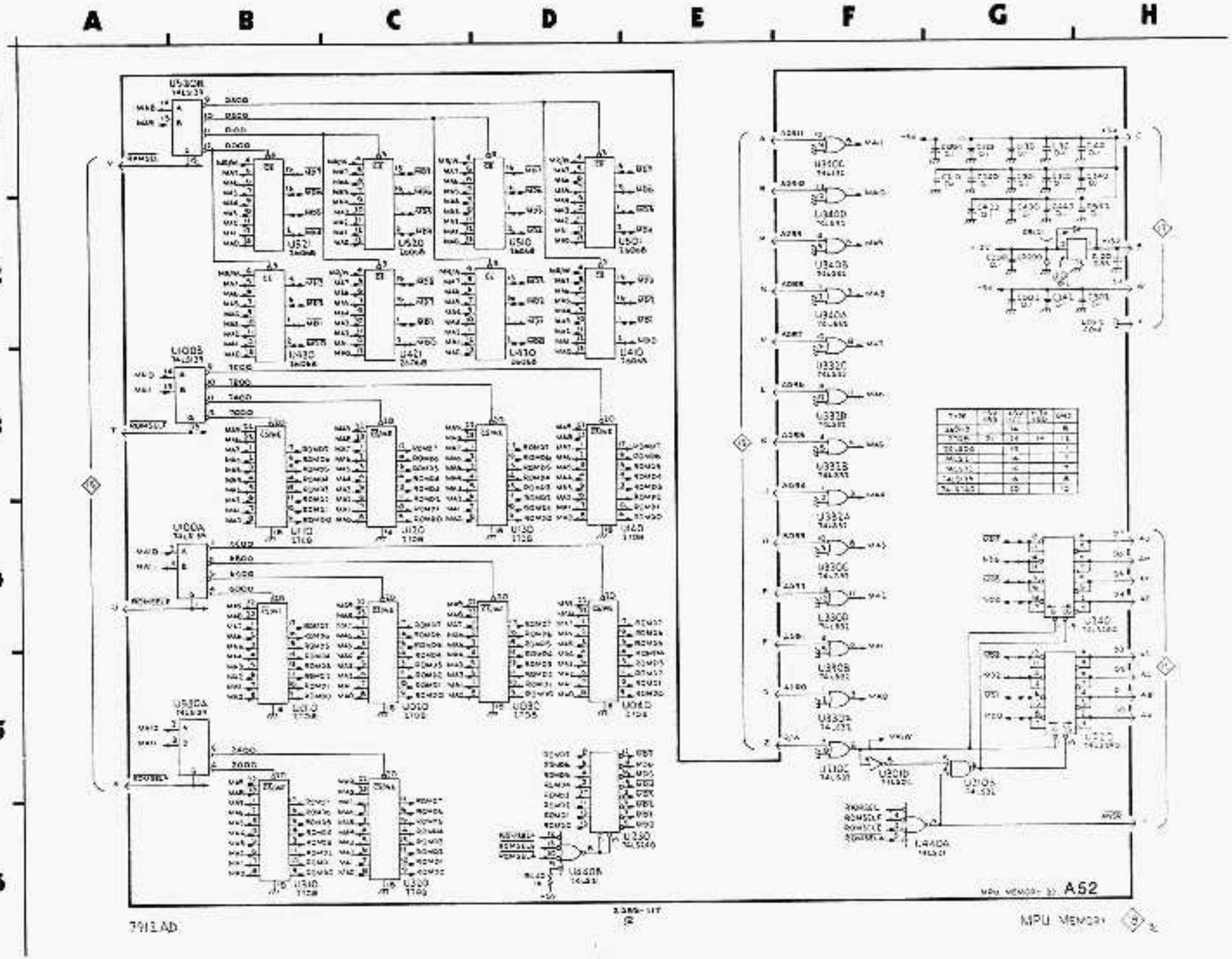


COMPONENT NUMBER EXAMPLE

A23 A2 R1234

P/O A52 ASSY — MPU MEMORY ◇18

Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location
C002	G2	A0	U040	D5	A4
C004	G1	A0	U100B	B3	B0
C100	G2	B0	U101	G2	B0
C110	G1	B1	U110	B3	B1
C120	G1	B2	U120	C3	B2
C130	G1	B3	U130	D3	B3
C140	C1	B4	U140	D3	B4
C200	G2	C0	U210C	F5	C1
C210	G1	C1	U220	G5	C2
C240	G1	C4	U230	G6	C3
C242	G2	C4	U240	G4	C4
C301	C1	D0	U301B	F3	D0
C320	C1	D2	U310	B6	D1
C340	G1	D4	U320	C6	D2
C400	G2	E0	U330C	F4	D3
C430	G2	E3	U332C	F3	D3
C440	G2	E4	U340C	F1	D4
C542	G2	F4	U410	D2	E1
			U420	D2	E1
CR101	G2	B0	U421	C2	E2
CR200	G2	C0	U430	B2	E3
			U440B	D6	E4
R440	D5	E4	U501	D2	F0
			U510	D2	F1
U010	B5	A1	U520	C2	F1
U120	C5	A2	U521	B2	F2
U130	D5	A3	U530B	B1	F3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MPU MEMORY
A52
MPU MEMORY
7913-AD

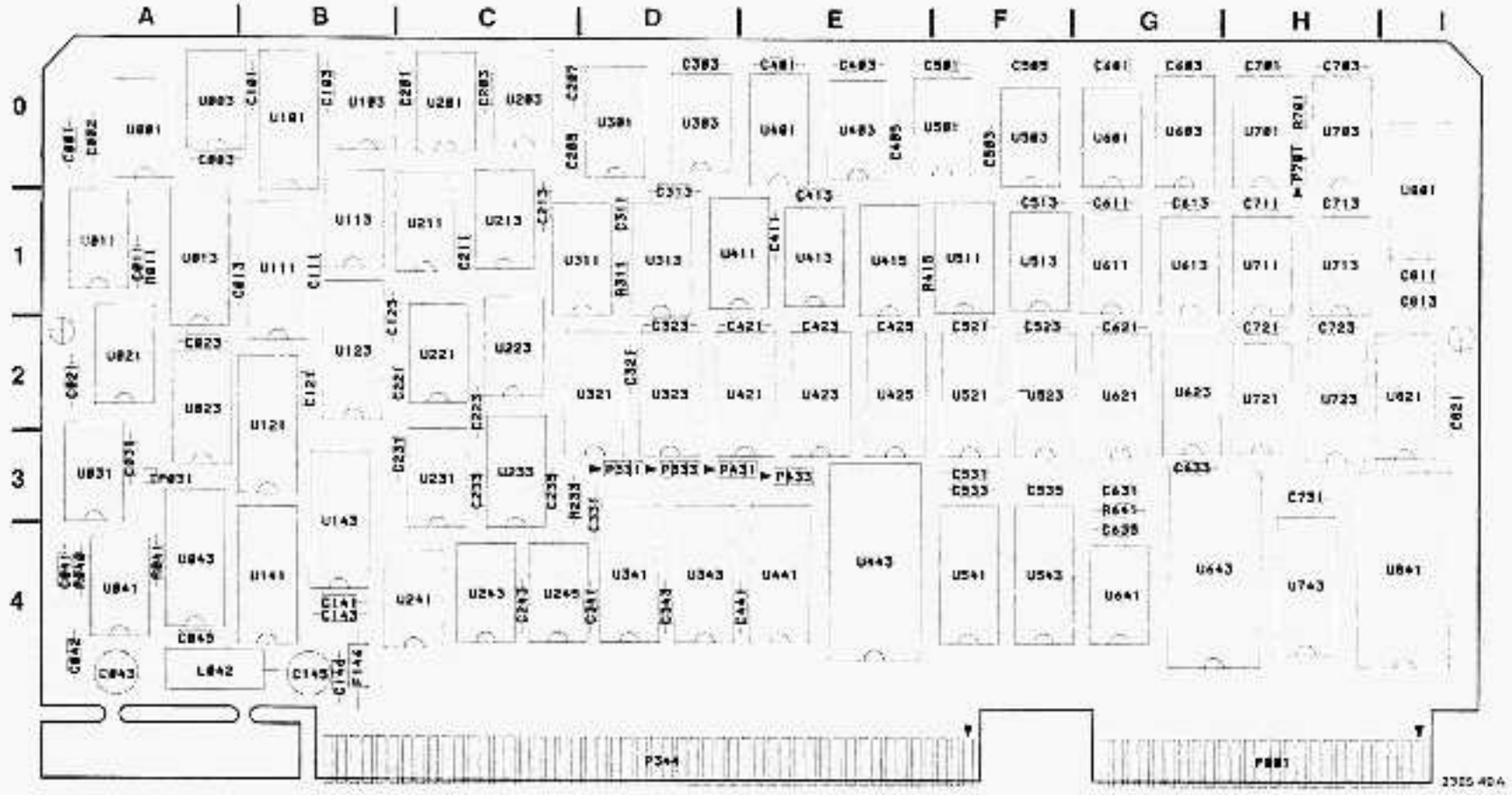
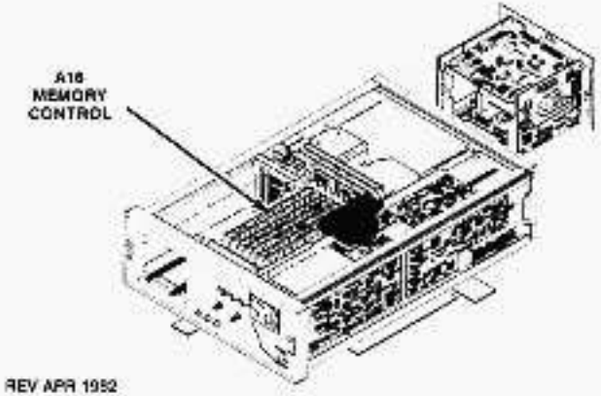


Fig. 7-24. The Memory Control circuit board, assembly A16.



REV APR 1982

COMPONENT NUMBER EXAMPLE

A23 A2 R1234

MEMORY CONTROL A16

P/O A16 ASSY — 2900 PORT TO MPU (19)

Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location
C001	B4	A0	C521	C5	F2
C003	B6	A0	C529	C6	F2
C005	C4	A0	C531	B5	F3
C011	B6	A1	C533	B5	F3
C013	B4	B1	C535	B5	F3
C021	B4	A2	C601	B5	G0
C023	C4	A2	C603	C5	G0
C031		A3	C611	C5	G1
C041	C4	A4	C613	C5	G1
C042	C4	A4	C621	B5	G2
C043	B4	A4	C631	B5	G3
C045	C4	A4	C633	B5	G3
C101	B4	B0	C635	B6	G4
C103	B4	B0	C701	C5	H0
C111	B4	B1	C703	B5	H0
C121	C4	B2	C711	B5	H1
C123	C4	B2	C713	B5	H1
C141	B4	B4	C721	C5	H2
C143	B4	B4	C723	C5	H2
C145	B4	B4	C731	C6	H3
C146	B6	B4	C811	C6	I1
C201	B4	C0	C813	C6	I2
C203	B4	C0	C821	C6	I3
C205	B4	C0	L042	B3	A6
C207	B4	C0	R011	E3	A1
C211	C4	C1	R040		A4
C213	B4	C1	R041	B6	A4
C221	C4	C2	R233	B6	C1
C223	B4	C2	R311	C6	D1
C231	B4	C3	R415	C6	E1
C233	B4	C3	R841		G4
C235	C4	C3	TP040	A4	A3
C243	C4	C4	U001	B1	A0
C303	B4	D0	U003	B1	A0
C311	C4	D1	U011B	F5	A1
C313	C4	D1	U011C	E4	A1
C321	B5	D2	U011D	G4	A1
C323	C4	D2	U013	F4	A1
C331	B4	D3	U021B	B3	A2
C341	C4	D4	U021C	B3	A2
C343	B5	D4	U023	B2	A2
C401	B5	E0	U031A	F3	A3
C403	B5	E0	U031D	B3	A3
C406	B5	E0	U031E	B3	A3
C411	C5	E1	U031F	B3	A3
C413	B5	E1	U041A	C1	A4
C421	C5	E2	U041D	C1	A4
C423	C5	E2	U043	F2	A4
C425	C5	E2	U101	G5	B0
C441	B5	E4	U111	F4	B1
C501	B5	F0	U121	F3	B2
C503	C5	F0	U123	G2	B2
C505	B5	F0	U141	G3	B4
C513	C5	F1	U143	F5	B3

P/O A16 ASSY ALSO SHOWN ON (20) & (21)

P/O A66 ASSY — 2900 PORT TO MPU (19)

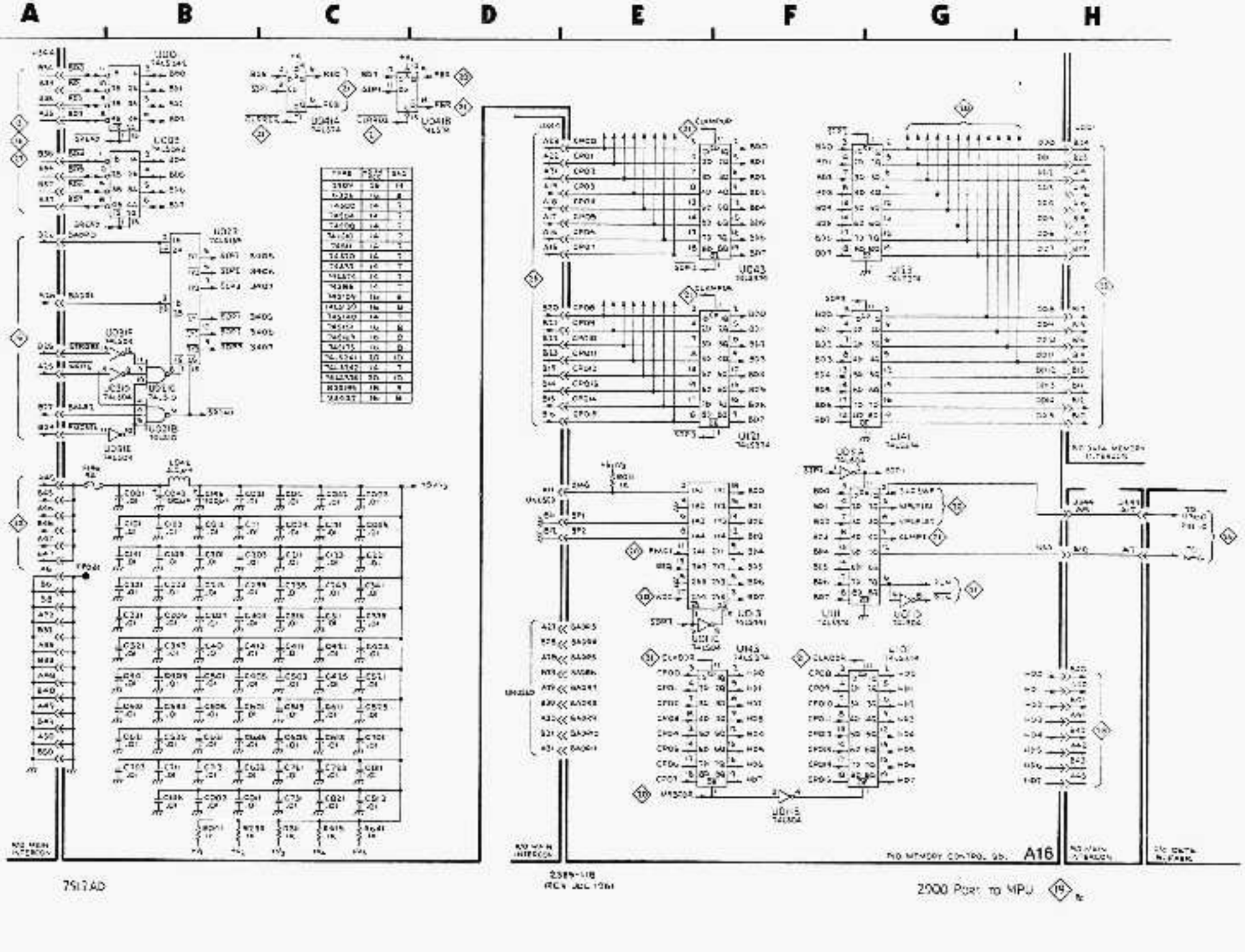
C001	B4	A0	—	—	—

P/O A66 ASSY ALSO SHOWN ON (20), (21), & (23)

P/O A63 ASSY — 2901 PORT TO MPU (19)

J341 J344	A1 D1	D4 D4	J344	H4	D4

P/O A63 ASSY - SEE FIG. 7-37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7917AD
2389-118
2000 Port to MPU
A16
2000 PORT TO MPU

P/O A16 ASSY — 2900 CONTROL (20)

Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location
P831	C5	D3	U601B	C4	G0
P833	C5	D3	U603	C4	G0
P841	C5	E3	U613A	A2	G1
P843	C5	E3	U623	C3	G2
P701	C3	H0	U643	A5	G4
			U701	C1	H0
R701	C3	H0	U703	C2	H0
			U711A	A2	H1
			U711B	A3	H1
U521	D2	D2	U711C	C2	H1
U523	D1	D2	U711D	C4	H1
U541	E1	D4	U711E	C4	H1
U543	E3	D4	U711F	A3	H1
U421	D4	E2	U713A	B3	H1
U423	D3	E2	U713B	B3	H1
U425	G5	E2	U713D	B3	H1
U441	G5	E4	U713G	D2	H1
U443	A6	E4	U721	B1	H3
U613F	C3	F1	U723	D6	H2
U521	G2	F2	U743	E5	H4
U523	G1	F2	U801	B2	I1
U541	G1	F4	U821	D5	I2
U543	G3	F4	U841	A4	I4

P/O A16 ASSY ALSO SHOWN ON (19) & (21)

P/O A66 ASSY — 2900 CONTROL (20)

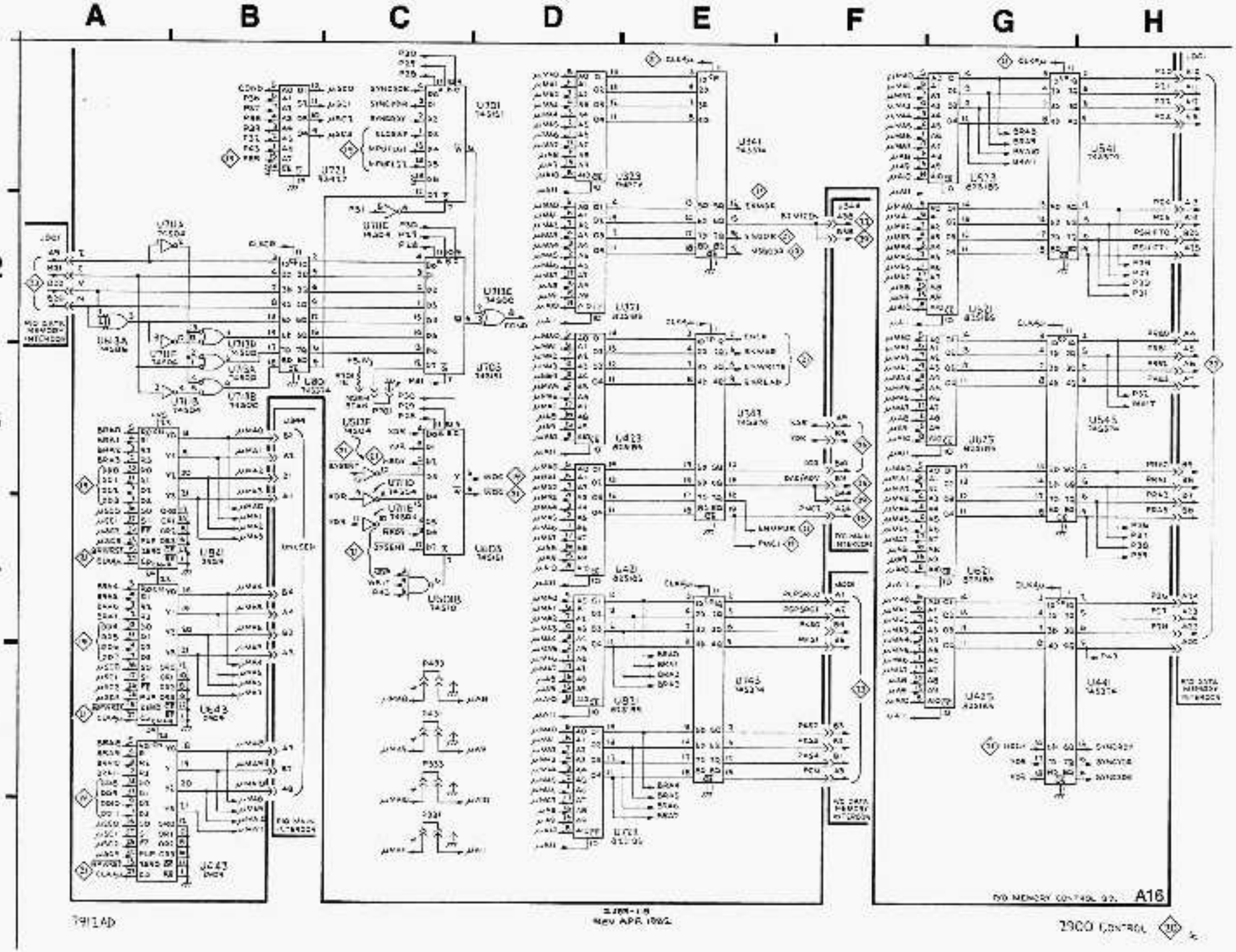
J001 J001	A2 F6	A0 A0	J001	H1	A0

P/O A66 ASSY ALSO SHOWN ON (12), (21), & (21)

P/O A68 ASSY — 2900 CONTROL (20)

J344	B3	D4	J344	F2	D4

P/O A68 ASSY - SEE FIG. 7-37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A16
7911AD
2900 CONTROL

P/O A15 ASSY — 2900 TIMING (21)

Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location
U031B	F5	A3	U301B	G3	D3
U103A	A3	B0	U303A	D5	D3
U103B	A2	B0	U303B	C2	D3
U113A	A5	B1	U311A	B3	D1
U201A	B2	C0	U311B	B2	D1
U201C	B4	C0	U313A	D2	D1
U201D	B5	C0	U313B	D1	D1
U203A	F3	C0	U401A	G1	E0
U203B	G3	C0	U401B	G2	E0
U203C	F5	C0	U403A	F2	E0
U203D	F3	C0	U413A	C4	E1
U211A	A1	C1	U413B	C4	E1
U211B	B1	C1	U413C	F1	E1
U211C	A3	C1	U413D	C4	E1
U211D	B3	C1	U415C	H1	E1
U213C	F3	C1	U415D	D4	E1
U213D	G3	C1	U501B	F2	F0
U221A	B4	C2	U501C	F3	F0
U221B	B5	C2	U503A	C3	F0
U221C	A4	C2	U503B	C3	F0
U221D	A4	C2	U503C	F4	F0
U223A	A3	C2	U503D	G1	F0
U223B	A2	C2	U511A	D3	F1
U223C	A2	C2	U511B	G4	F1
U231A	D5	C3	U513A	D3	F1
U231B	D5	C3	U513B	D3	F1
U231C	A4	C3	U513C	G5	F1
U233A	G4	C3	U513D	G4	F1
U233B	B5	C3	U601A	A5	G0
U241A	F6	C4	U601C	C3	G0
U241B	F5	C4	U611B	F1	G1
U243A	G1	C4	U611C	F4	G1
U245A	D4	C4	U611D	D2	G1
U245B	D4	C4	U641A	D3	G4
U301A	G3	D0			

P/O A15 ASSY ALSO SHOWN ON (19) & (20)

P/O A65 ASSY — 2900 TIMING (21)

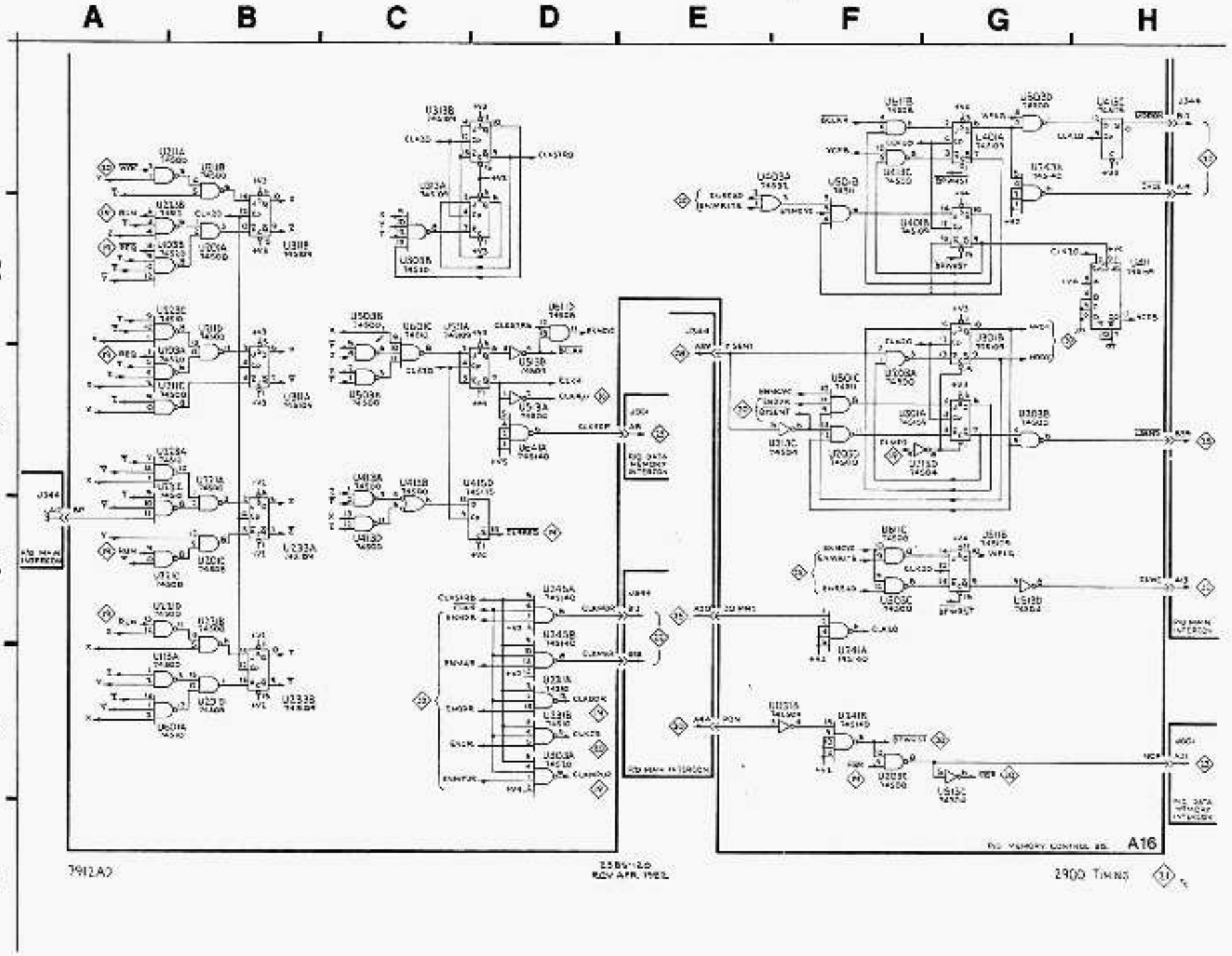
J344	A4	C4	J344	E4	C4
J344	E2	C4	J344	H1	C4

P/O A65 ASSY ALSO SHOWN ON (19), (20), & (23)

P/O A68 ASSY — 2900 TIMING (21)

J001	E3	A0	J001	H5	A0

P/O A68 ASSY - SEE FIG. 7-37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7912A0
2880 TIMING
A16

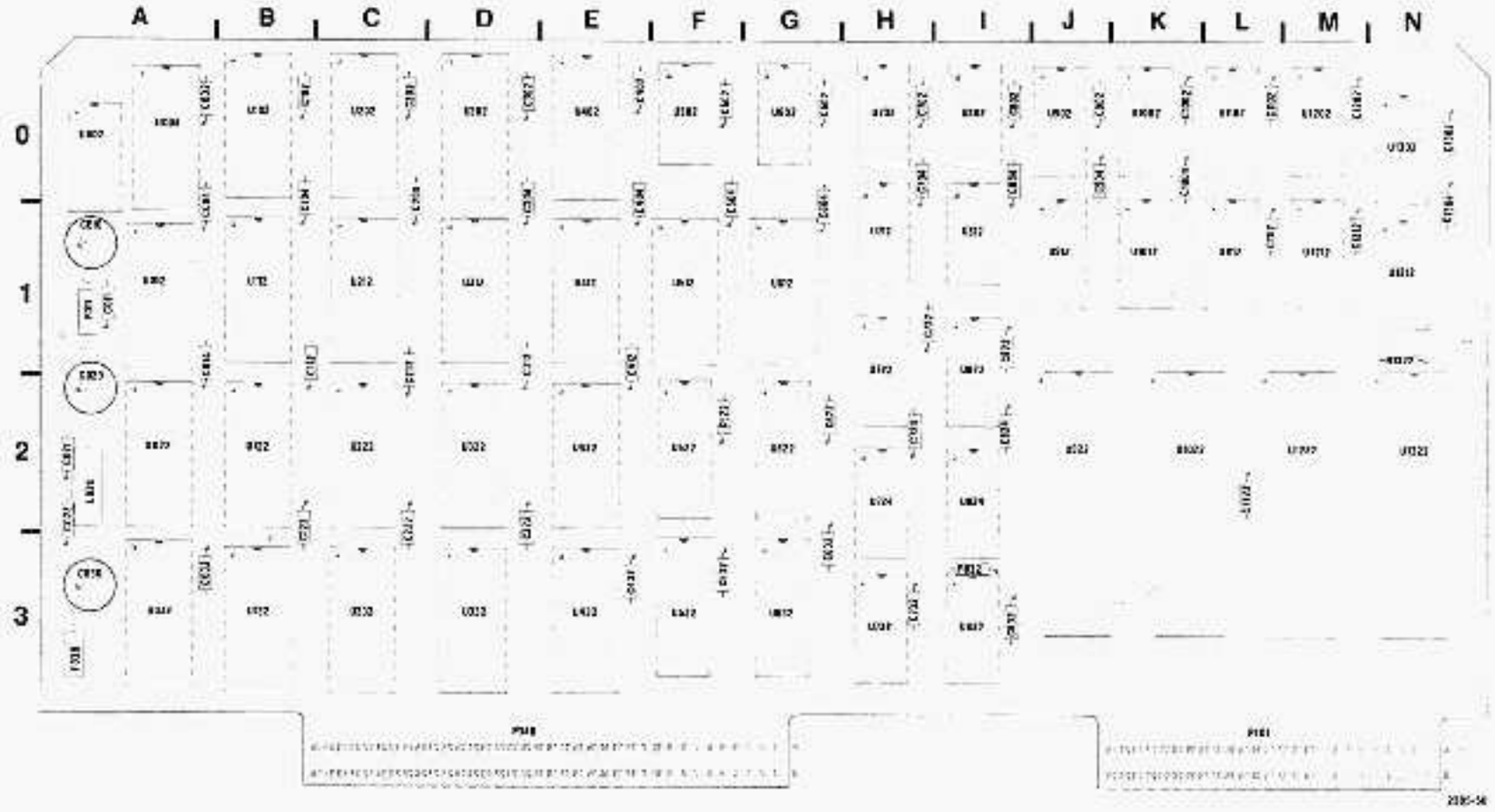
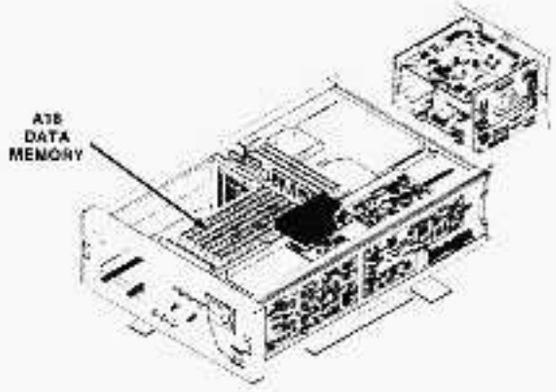


Fig. 7-27. The Data Memory circuit board, assembly A18.



COMPONENT NUMBER EXAMPLE

A23 A2 R1234

P/O A18 ASSY — DATA MEMORY 22

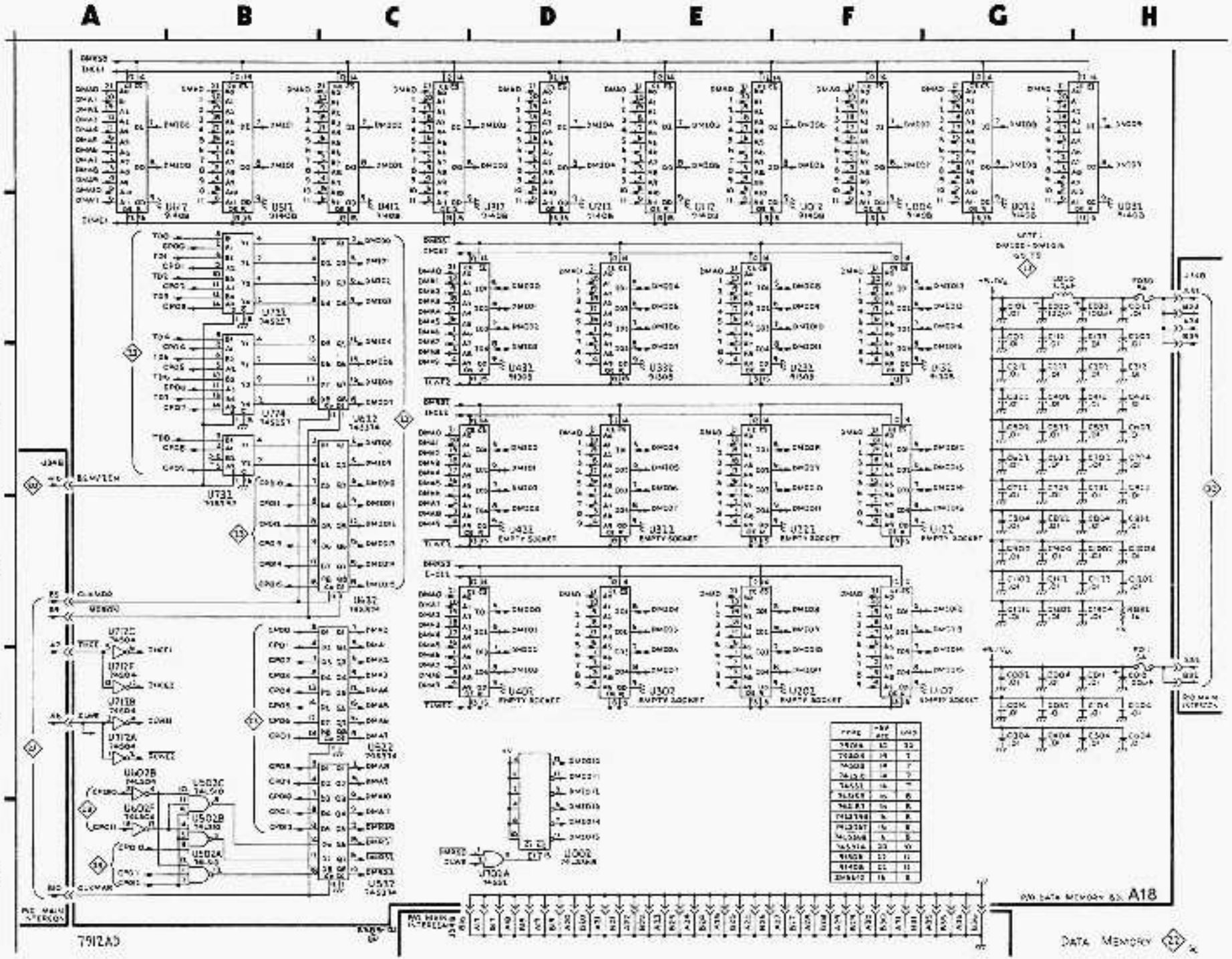
Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location
C002	G5	A0	C1212	G4	M1
C004	G5	A1	C1302	G4	N0
C010	H5	A1	C1304	H4	N1
C011	H5	A1			
C014	G5	A1			
C020	G2	A2	F011	H3	A1
C021	G3	A2	F000	H2	A3
C022	H2	A2			
C030	H2	A3	L020	G2	A2
C032	G5	A3			
C102	G2	B0	R832	H4	I3
C104	H5	B1			
C112	G3	B1	U002	D8	A0
C122	H3	B2	U004	F1	A0
C202	H2	C0	U012	F1	A1
C204	H5	B1	U022	G1	A2
C212	G3	C1	U032	H1	A3
C222	G3	C2	U102	G5	B0
C302	H3	D0	U112	E1	B1
C304	G5	D0	U122	G4	B3
C312	H3	D1	U132	G3	B3
C322	G3	D2	U202	F5	C0
C402	G3	E0	U212	D1	C1
C404	G5	D0	U222	F4	C2
C412	H3	E1	U232	F3	C3
C432	H3	E3	U302	E5	D0
C502	G3	F0	U312	C1	D1
C504	H5	F1	U322	E4	D2
C522	G3	F2	U332	E3	D3
C532	H3	F3	U402	D5	E0
C602	H3	G0	U412	C1	E1
C604	H5	G1	U422	D4	E2
C622	G3	G2	U432	D3	E3
C632	G3	G3	U502A	B6	F0
C702	H3	H0	U502B	B6	F0
C704	H3	H0	U502C	B6	F0
C722	G3	H1	U512	B1	F1
C724	G3	H2	U522	C3	F2
C732	H3	H3	U532	C6	F3
C802	H3	I0	U502B	A5	G0
C804	G4	I0	U502F	A6	G0
C822	G4	I2	U512	A1	G1
C824	H4	I2	U522	C3	G2
C832	H4	I3	U532	C4	G3
C902	G4	J0	U702A	B6	H0
C904	G4	J0	U712A	A5	H1
C1002	H4	K0	U712B	A5	H1
C1004	H4	K1	U712C	A5	H1
C1102	G4	L0	U712F	A5	H1
C1112	G4	L1	U722	B2	H1
C1122	H4	L2	U724	B3	H2
C1202	H4	M0	U732	B3	H3

P/O A18 ASSY ALSO SHOWN ON 23

P/O A68 ASSY — DATA MEMORY 22

J348 J348	A3 C6	D4 D4	J348	H2	D4

P/O A68 ASSY - SEE FIG. 7-31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DATA MEMORY
79I2A5

P/O A18 ASSY — 2900 CPU (21)

Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location
R1322	G3	N2	U902	G2	J2
			U1002	E1	K0
U702D	E5	H0	U1012	D1	K1
U802E	E5	I0	U1022	E2	K2
U802F	G5	I0	U1102	D1	L0
U812C	E6	I1	U1112	C1	L1
U812D	E6	I1	U1202	B1	M0
U822	G4	I1	U1212	A1	M1
U824	G4	I2	U1222	D2	M2
U832	B4	I3	U1302	B6	N0
U902	G1	J0	U1312	C6	N1
U912	F1	J1	U1322	B2	N2

P/O 18 ASSY ALSO SHOWN ON (22)

P/O A68 ASSY — 2900 CPU (23)

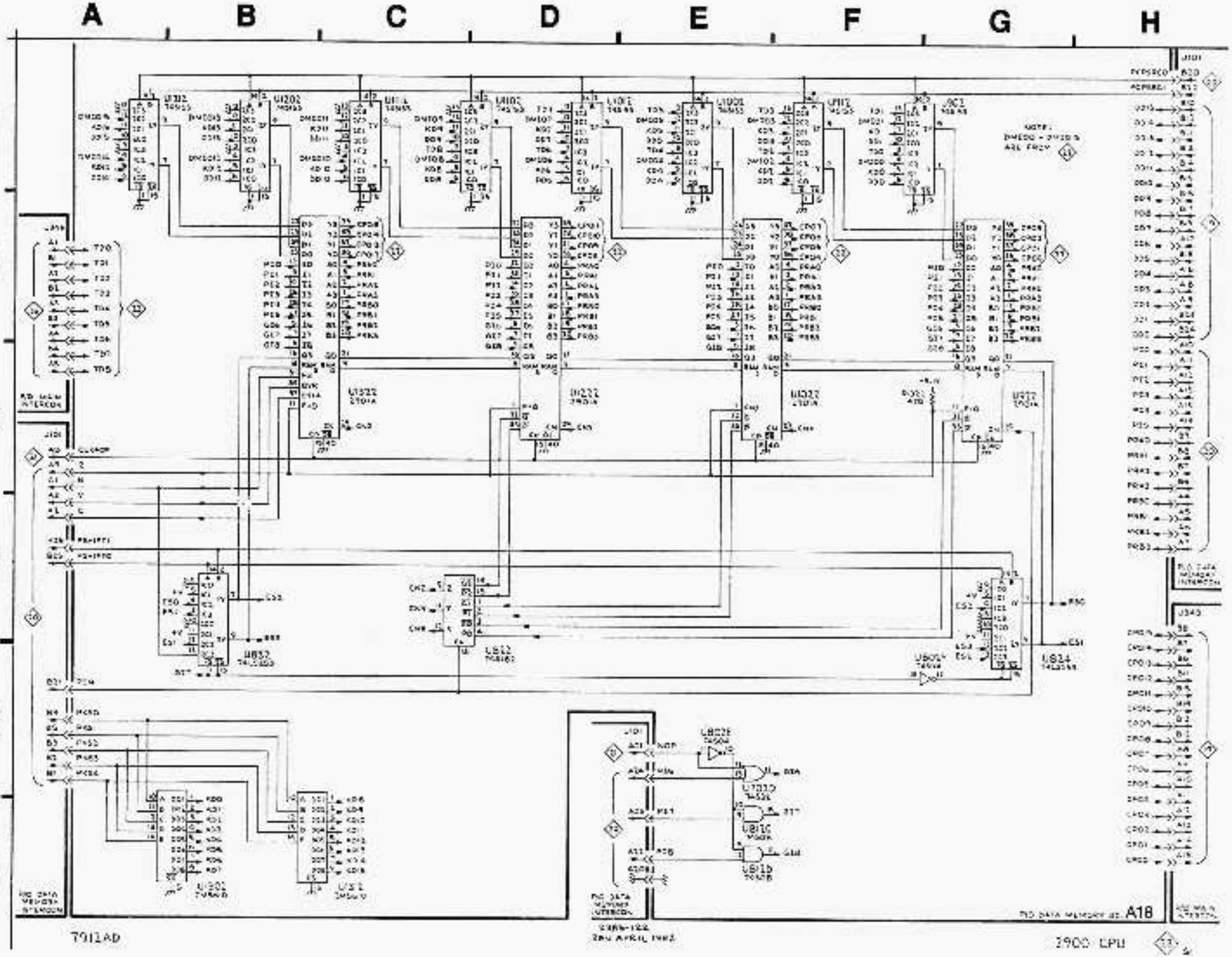
J101 J101	A4 E6	B0 B0	J101	H1	B0

P/O A68 ASSY ALSO SHOWN ON (19) (20) & (21)

P/O A68 ASSY — 2900 CPU (23)

J348	A2	D4	J348	G4	D4

P/O A68 ASSY - SEE FIG. 7-37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7911AD
3900 CPU
A18

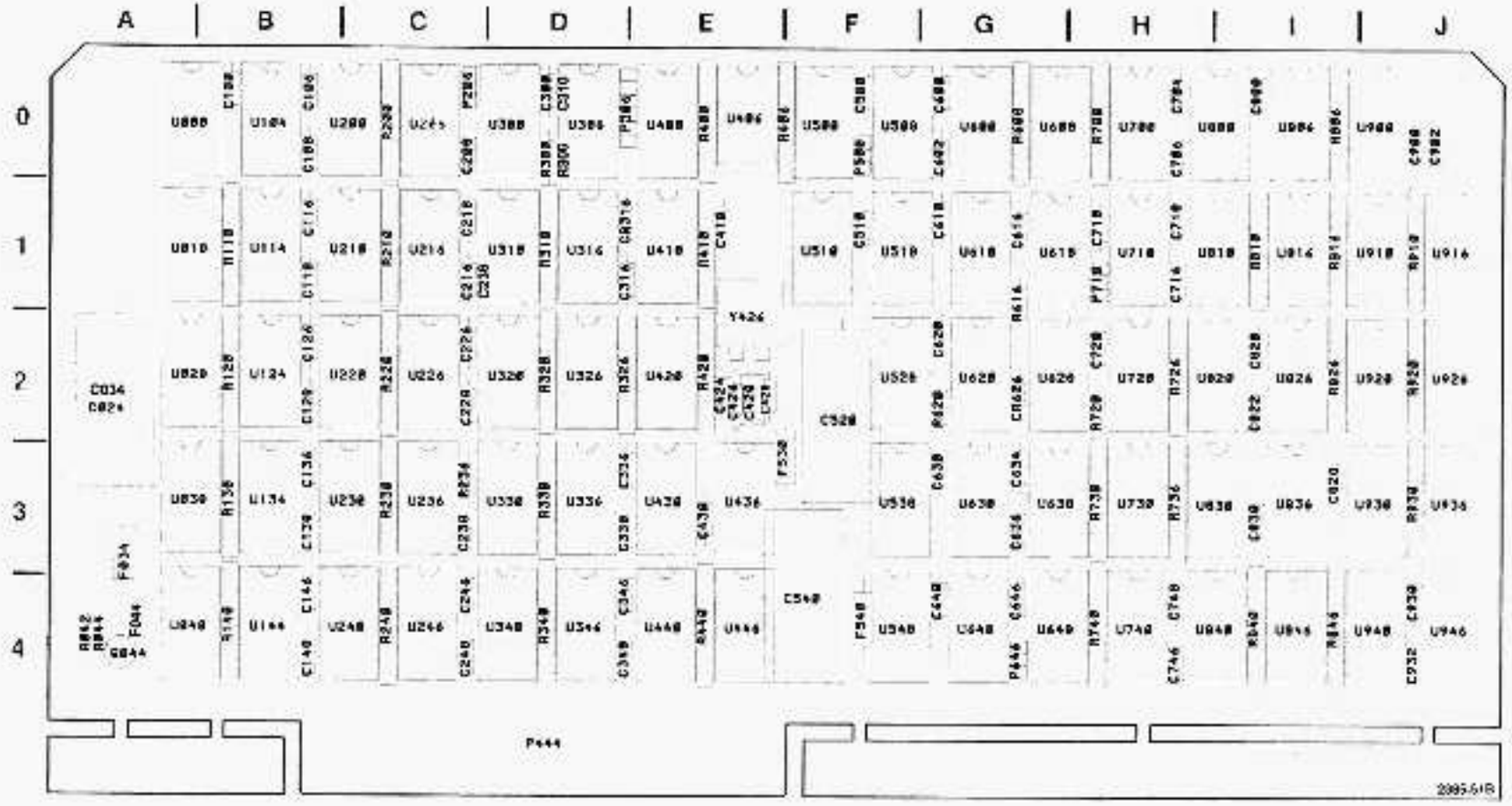
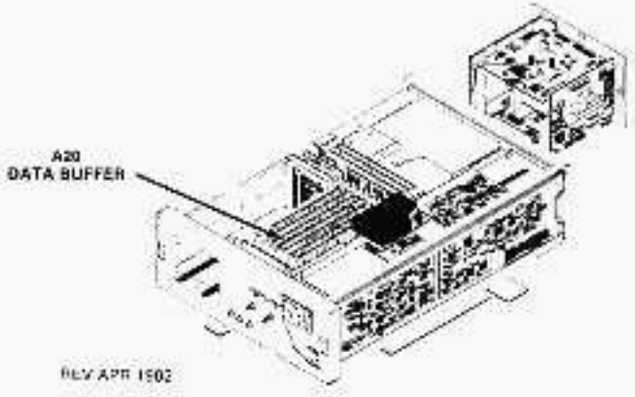


Fig. 7-29. The Data Buffer circuit board, assembly A20.



REV APR 1982

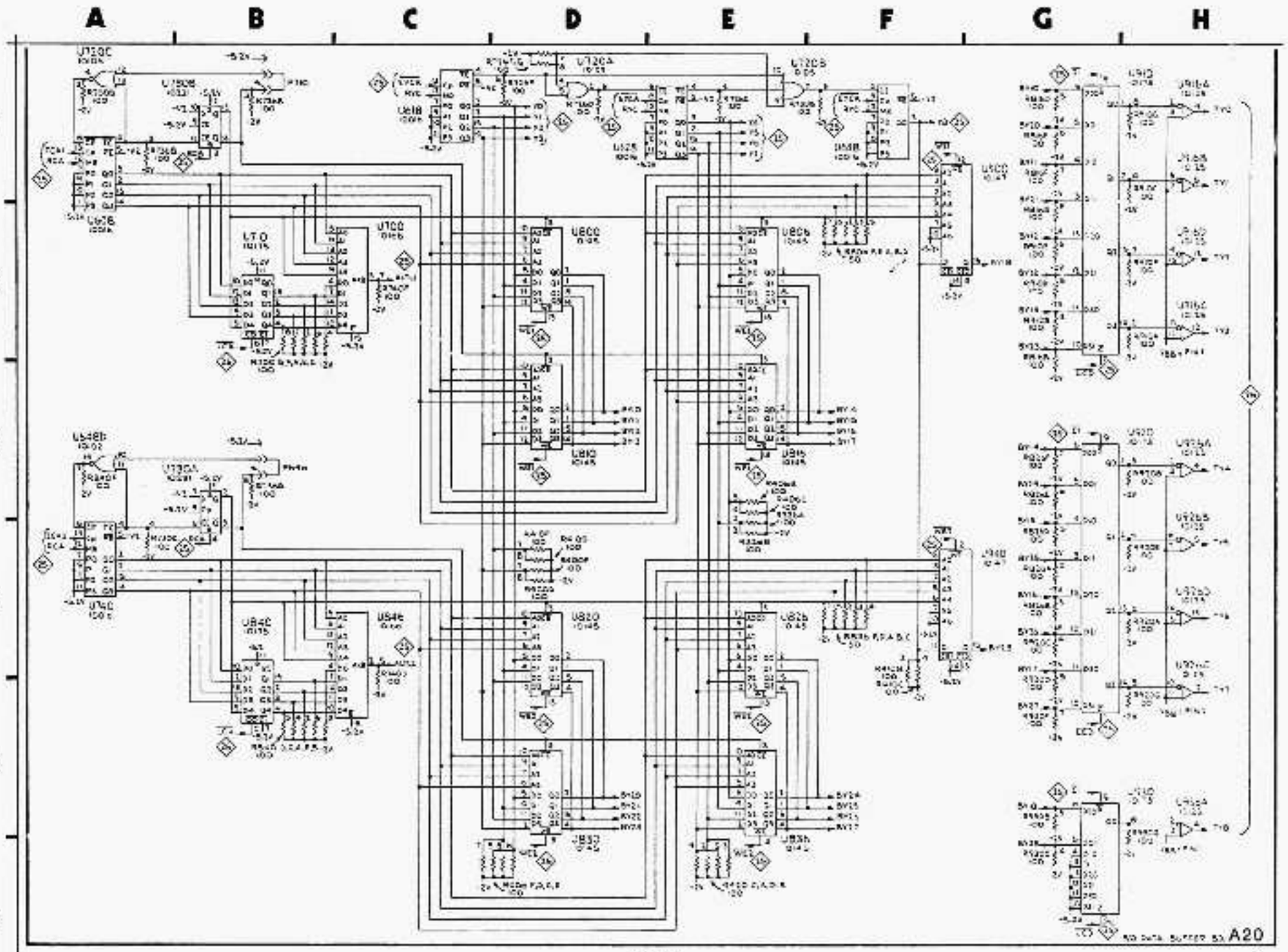
COMPONENT NUMBER EXAMPLE

A23 A2 R1234

P/O A20 ASSY — BUFFER MEMORY (24)

Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location
P646	B3	G4	R848C	F3	I4
P710	B1	H1	R848D	F4	I4
			R848F	F4	I4
R326A	E3	D2	R910A	H2	J1
R326B	E3	D2	R910B	G2	J1
R400F	D4	E0	R910C	H1	J1
R400G	D4	E0	R910D	G2	J1
R406B	E3	E0	R910E	G2	J1
R406C	E3	E0	R910F	H2	J1
R406D	D6	E0	R910G	G1	J1
R406E	D6	E0	R920A	H4	J2
R406F	D6	E0	R920B	H3	J2
R406G	D6	E0	R920C	G4	J2
R410B	F4	E1	R920D	G5	J2
R410C	F4	E1	R920E	H4	J2
R410F	D4	E1	R920F	G5	J2
R410G	D4	E1	R920G	H5	J2
R420A	E6	E2	R930B	G5	J3
R420B	E6	E2	R930C	G6	J3
R420C	E6	E2	R930G	H5	J3
R420D	E6	E2			
R700A	B2	H0			
R700B	A1	H0	U609	A1	G0
R700C	B2	H0	U618	C1	G1
R700E	B2	H0	U628	E1	G2
R700F	B2	H0	U638	F1	G3
R700G	B2	H0	U648D	A3	G4
R726B	B1	H2	U700	C2	H0
R726C	E1	H2	U710	B2	H1
R726D	D1	H2	U720A	D1	H2
R726F	D1	H2	U720B	E1	H3
R730B	F1	H3	U720C	A1	H2
R730C	A4	H3	U730A	B3	H3
R730B	A1	H3	U730B	B1	H3
R736G	B3	H3	U740	A4	H4
R740D	C4	H4	U805	D2	I0
R740F	C2	H4	U805	E2	I0
R806A	F2	I0	U810	D3	I1
R806B	F2	I0	U816	E3	I1
R806D	F2	I0	U820	D4	I2
R806F	F2	I0	U826	E4	I2
R816B	G2	I1	U830	D5	I3
R816D	G1	I1	U836	E5	I3
R816F	G1	I1	U840	B4	I4
R816F	G1	I1	U846	C4	I4
R816G	G2	I1	U900	G1	J0
R826A	C4	I2	U910	G1	J1
R826B	C4	I2	U916A	H1	J1
R826D	C4	I2	U916B	H1	J1
R826E	C3	I2	U916C	H2	J1
R826F	C3	I2	U916D	H2	J1
R840A	B5	I4	U922	G4	J2
R840B	B5	I4	U926A	H3	J2
R840C	B5	I4	U926B	H4	J2
R840D	B5	I4	U926C	H5	J2
R840E	B5	I4	U926D	H4	J2
R840F	A3	I4	U930	H5	J3
R846A	F4	I4	U936A	H5	J3
R846B	F4	I4	U940	G4	J4

P/O A20 ASSY ALSO SHOWN ON (25) & (26)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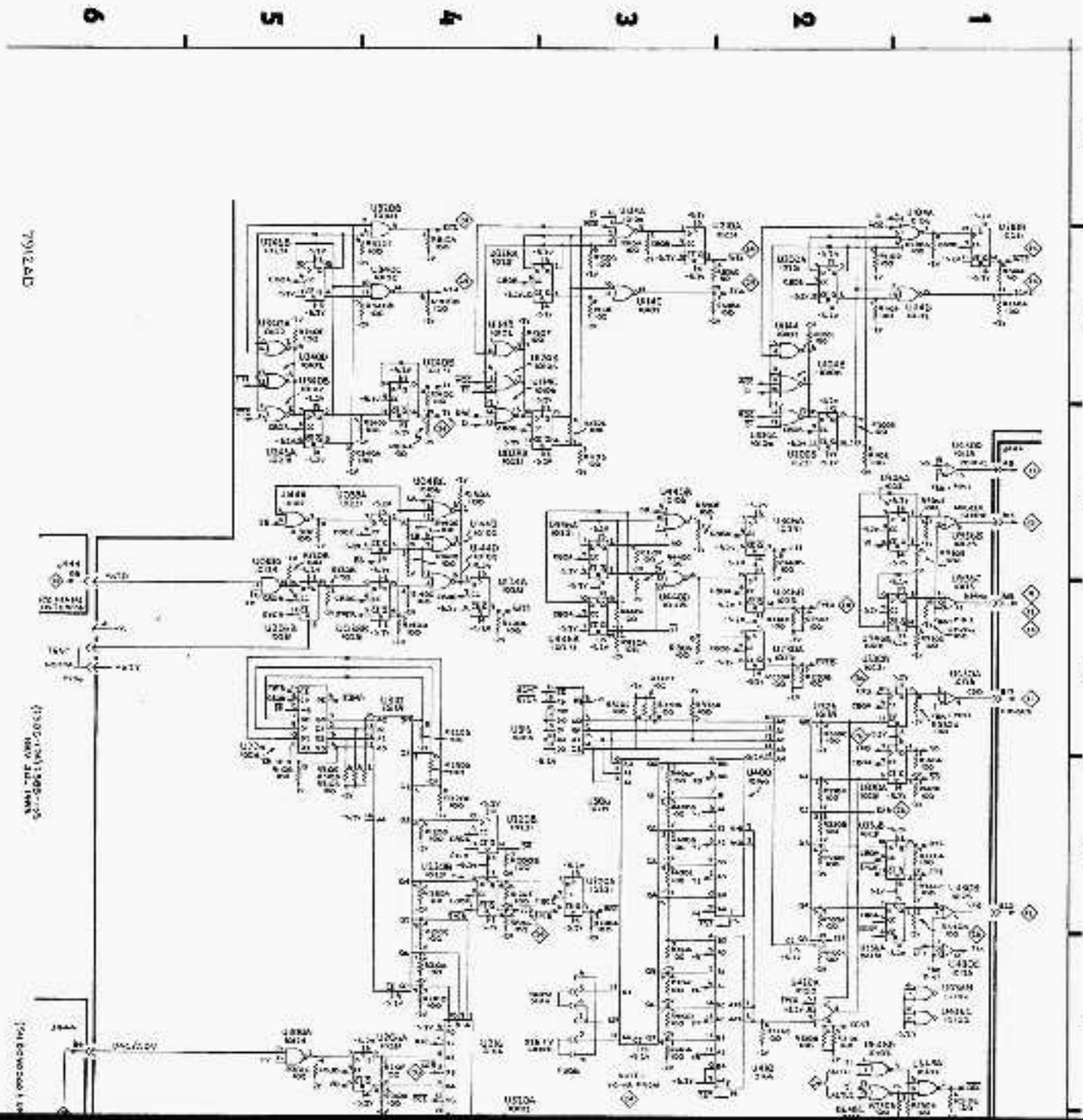
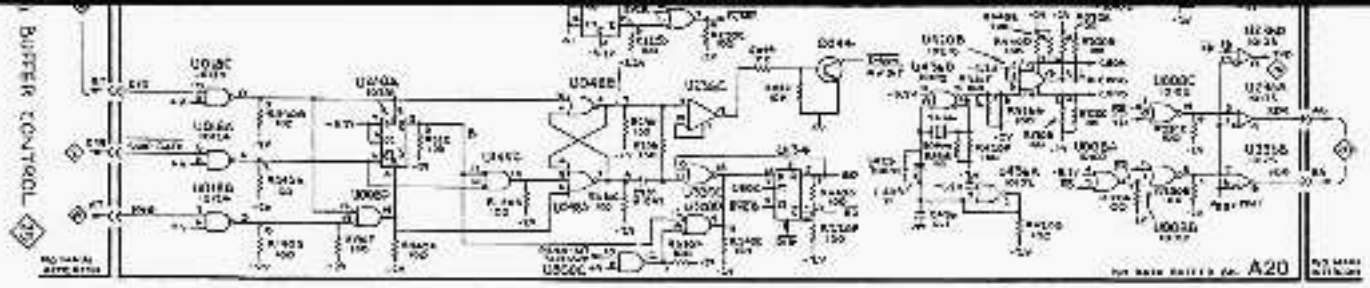
A20

TOP

SN 8E90000 & UP BUFFER CONTROL 25





BOTTOM

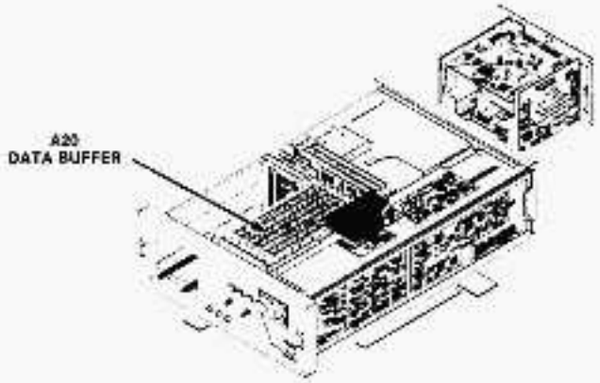
SN 8090000 & UP BUFFER CONTROL <25>

BUFFER CONTROL
SN 8090000 & up

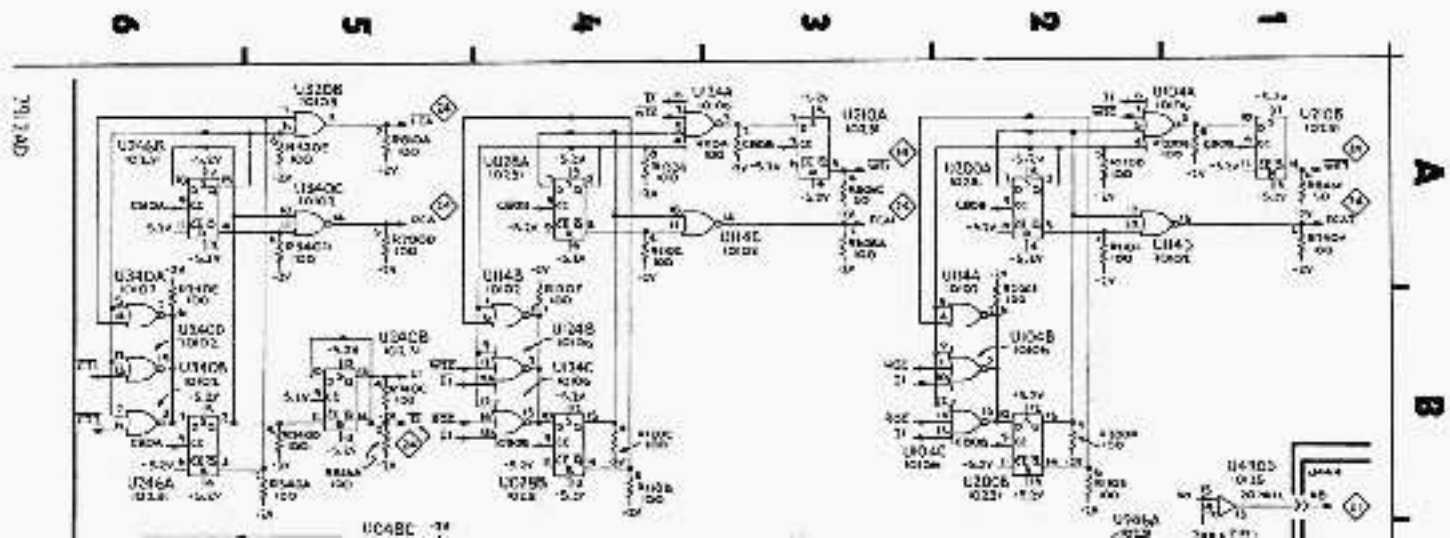
P/O A20 ASSY (SN B050000 & UP) — BUFFER CONTROL 25

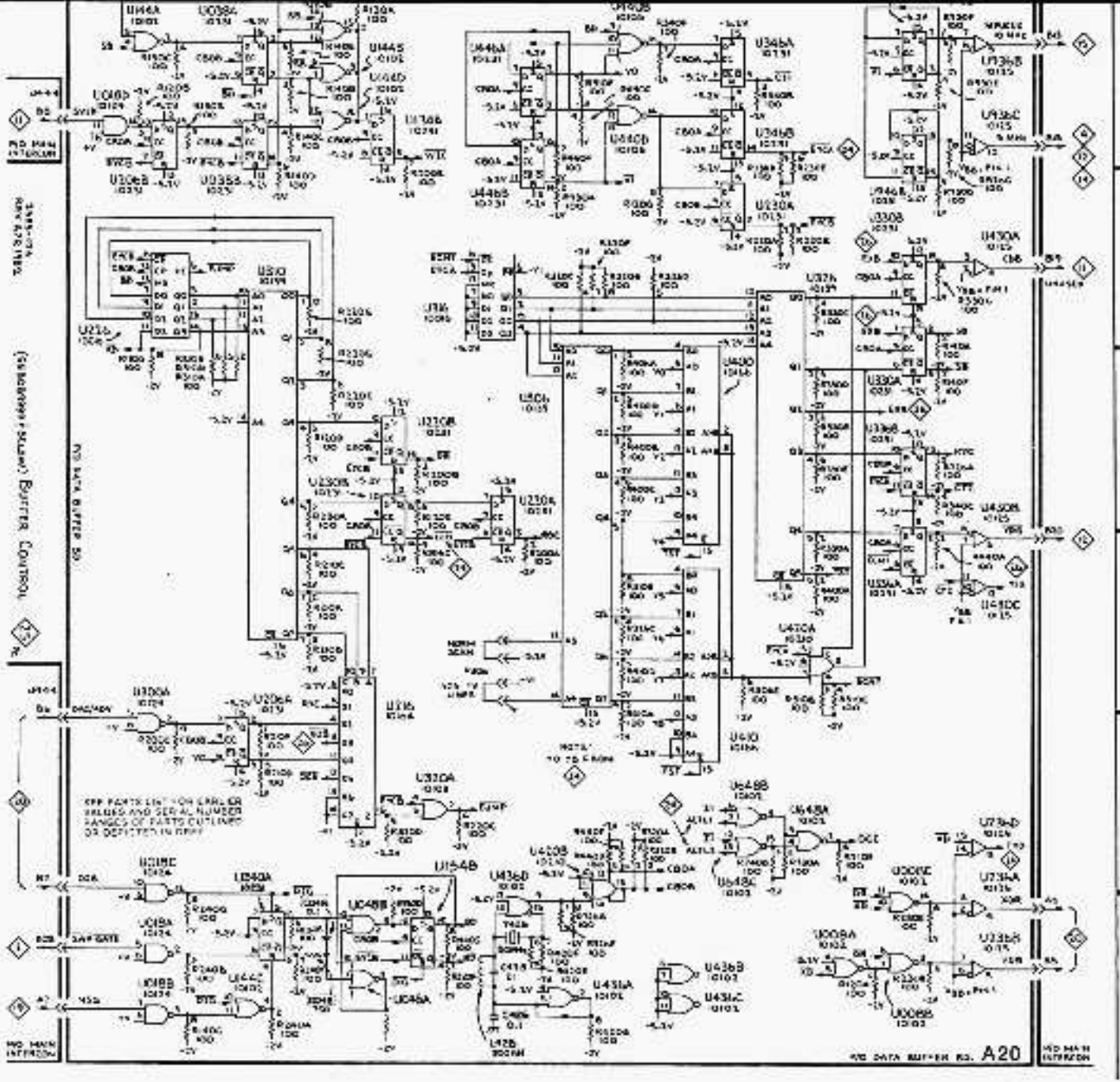
Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location
C238	G4	C3	R220G	D4	C2	R440D	G2	E4	U210A	B2	C1
C426	G2	E2	R230	G4	C3	R440E	G2	C4	U210B	B1	C1
C428	G3	E2	R230A	E4	C3	R440F	D3	E4	U215	F4	C1
			R230B	G1	C3	R608A	B2	G3	U220A	E3	G2
L428	G3	E2	R230C	G4	C3	R700D	B4	H0	U220B	E4	G2
			R230F	G1	C3	R726A	E1	H2	U225	D5	C3
P026	F3	D0	R230F	G4	C3	R726F	C2	H2	U230A	D2	C3
			R230G	E4	C3	R726G	C2	H2	U230B	E4	C3
Q044	G3	A4	R236	G4	C3	R730A	F1	H3	U235A	G1	C3
			R240A	H5	C4	R730D	D2	H3	U235B	G1	C3
R042	G3	A4	R240B	G5	C4	R730E	D2	H3	U235C	G3	C3
R044	G3	A4	R240C	H3	C4	R740A	B1	H4	U235D	G1	C3
R110A	B3	B1	R240E	B5	C4	R740B	F2	H4	U240A	C5	C4
R110B	C1	B1	R240G	G5	C4	R740C	B4	H4	U240B	B4	C4
R110C	B3	B1	R310A	E5	D1	R805C	B2	I0	U245A	C5	C4
R110D	B2	B1	R310B	F2	D1	R810A	C4	I1	U245B	B5	C4
R110E	C2	B1	R310C	F2	D1	R815C	E4	E4	U300A	G3	D0
R110F	B2	B1	R310D	B5	D1	R826G	D1	I2	U310	D4	D1
R110G	E5	B1	R310E	F5	D1	R846E	B1	I4	U315	D5	D1
R120A	G2	B2	R310F	C3	D1	R903A	D3	J3	U320A	F4	D2
R120B	G2	B2	R310G	G5	D1	R903D	D1	J3	U320B	A4	D2
R120C	G2	B2	R320A	G2	D2	R903E	C1	J3	U330A	E2	D3
R120D	C3	B2	R320B	G5	D2	R903F	C1	J3	U330B	A4	D3
R120E	E4	B2	R320C	D1	D2				U336A	F2	D3
R120F	B4	B2	R320D	G4	D2	U008A	G2	A0	U336B	E2	D3
R120G	B3	B2	R320E	B4	D2	U008B	H1	A0	U340A	B5	D4
R130A	C4	B3	R320F	D3	D2	U008C	G1	A0	U340B	B5	D4
R130B	B5	B3	R320G	D3	D2	U016A	G8	A1	U340C	B4	D4
R130C	C5	B3	R326C	F3	D2	U016B	G8	A1	U340D	B5	D4
R130D	G2	B3	R326D	D3	D2	U016C	G6	A1	U346A	C2	D4
R130E	G2	B3	R326E	F2	D2	U016D	C6	A1	U346B	D2	D4
R130G	D3	B3	R326F	G2	D2	U028A	B4	A2	U400	E2	E0
R140A	E1	B4	R326G	G2	D2	U028B	C4	A2	U410	F2	E1
R140B	C4	B4	R330A	E2	D3	U028A	C5	A3	U420A	F2	E2
R140C	D4	B4	R330B	E2	D3	U028B	B5	A3	U420B	G2	E2
R140D	D4	B4	R330C	D2	D3	U048A	G4	A4	U430A	D1	E3
R140E	C4	B4	R330D	E2	D3	U048B	G4	A4	U430B	E1	E3
R140F	E1	B4	R330E	E2	D3	U048C	C4	A4	U430C	F1	E3
R140G	G4	B4	R330F	H4	D3	U104A	A1	B0	U430D	C1	E3
R200A	E3	C0	R330G	D1	D3	U104B	B2	B0	U436A	G2	E3
R200B	E4	C0	R340A	D4	D4	U104C	C2	B0	U436B	F1	E3
R200C	F5	C0	R340B	C2	D4	U114A	B2	B1	U436C	F1	E3
R200D	C2	C0	R340C	E1	D4	U114B	B4	B1	U436D	G2	E3
R200E	B2	C0	R340D	B4	D4	U114C	B3	B1	U440B	C3	E4
R200F	D4	C0	R340F	C3	D4	U114D	B1	B1	U440C	D3	E4
R200G	B1	C0	R405A	F2	E0	U124A	A3	B2	U446A	C3	E4
R210A	F4	C1	R405B	E3	E0	U124B	B3	B2	U446B	D0	E4
R210B	F4	C1	R405D	E3	E0	U124C	B3	B2	U448A	F1	G4
R210C	F4	C1	R405E	E3	E0	U134A	D4	B3	U448B	F2	G4
R210D	F4	C1	R405A	E3	E0	U134B	G3	B3	U448C	F2	G4
R210F	F1	C1	R410A	E3	E1	U144A	C5	B4	U936B	C1	J3
R210F	F4	C1	R410D	F3	E1	U144B	C4	B4	U936C	C1	J3
R220A	D2	C2	R410E	F3	E1	U144C	G4	B4	U944A	C1	J4
R220B	D2	C2	R420E	G2	E2	U144D	C4	B4	U944B	D2	J4
R220C	G3	C2	R420F	G2	E2	U305A	B2	C0			
R200D	E4	C2	R420G	G2	E2	U200B	C3	C0	Y426	G2	E2
R220E	E4	C2	R440A	C1	E4	U205A	F4	C0			
R220F	H3	C2	R440C	C3	E4	U205B	B1	C1			

P/O A20 ASSY ALSO SHOWN ON 24 & 26



TOP (25) SN B089999 & BELOW BUFFER CONTROL





BOTTOM OF 25 SN B089999 & BELOW BUFFER CONTROL

P/O A20 ASSY — BUFFER CONTROL ◇25◇

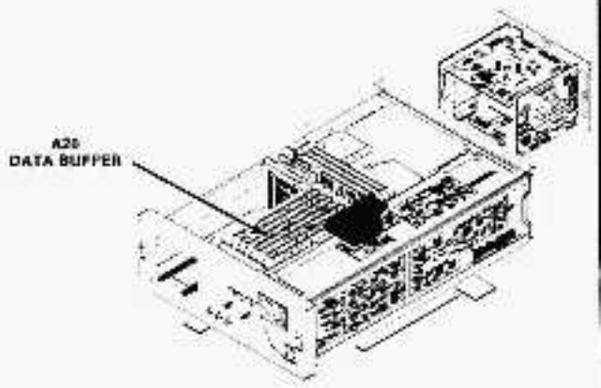
Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location
C426	H6	E2	R230G	D5	C3	R725F	C2	H2	U220B	E4	C2
C428	H6	E2	R240A	H5	C4	R725G	C2	H2	U228	D6	C2
			R240B	H6	C4	R730A	G2	H3	U230A	D3	C3
L428	H4	C2	R240D	B6	C4	R730D	H3	H3	U230B	E4	C3
			R240E	A6	C4	R730E	H3	H3	U238A	H1	C3
P906	F4	D0	R240G	G5	C4	R740A	A1	H4	U238B	H1	C3
			R310A	E5	D1	R740B	G2	H4	U238D	G1	C3
R110A	A3	B1	R310B	F2	D1	R740C	B5	H4	U240A	H5	C4
R110B	B4	B1	R310C	F2	D1	R805C	A3	I0	U240D	B5	C4
R110C	A4	B1	R310D	E3	D1	R810A	A5	I1	U246A	B6	C4
R110D	A2	B1	R310E	E5	D1	R816A	B5	I1	U246B	A6	C4
R110E	B2	B1	R310F	C3	D1	R816C	F4	I1	U300A	G6	D0
R110F	A2	B1	R310G	F3	D1	R826G	C1	I2	U306	E3	D0
R110G	E6	B1	R320A	G3	D2	R840F	A1	I4	U310	E5	D1
R120A	H2	B2	R320B	G3	D2	R930A	D3	J3	U318	D4	D1
R120B	C8	B2	R320C	D3	D2	R930D	D1	J3	U320A	G4	D2
R120C	B4	B2	R320D	G4	D2	R930E	C1	J3	U320B	A5	D2
R120D	E5	B2	R320E	A6	D2	R930F	C1	J3	U326	E2	D2
R120E	E4	B2	R320F	D3	D2				U330A	D2	D3
R120F	A4	B2	R320G	D3	D2	U005A	H2	A6	U330B	D2	D3
R120G	A6	B2	R326C	F3	D2	U005B	H2	A6	U338A	F1	D3
R130A	C5	B3	R326D	D3	D2	U005C	G2	A6	U338B	E1	D3
R130B	C6	B3	R326E	F2	D2	U013A	H8	A1	U340A	B6	D4
R130C	C6	B3	R326F	H3	D2	U013B	H8	A1	U340B	B6	D4
R130D	H5	B3	R326G	H3	D2	U018C	G6	A1	U340C	A5	D4
R130G	D3	B3	R330A	F2	D3	U018D	C6	A1	U340D	B5	D4
R140A	D1	B4	R330B	E2	D3	U024A	A4	A2	U346A	C3	D4
R140B	C5	B4	R330C	D2	D3	U024B	B4	A2	U346B	C3	D4
R140C	C5	B4	R330D	E2	D3	U038A	C6	A3	U400	E1	E0
R140D	C5	B4	R330E	E2	D3	U038B	C5	A3	U410	F3	E1
R140E	C5	B4	R330G	D1	D3	U048C	C6	A4	U420A	F2	E2
R140F	E1	B4	R340A	B6	D4	U104A	A1	B0	U420B	G3	E2
R140G	H6	B4	R340B	C2	D4	U104B	B2	B0	U430A	D1	E3
R200A	F4	C0	R340C	E1	D4	U104C	B2	B0	U430B	F1	E3
R200B	E4	C0	R340D	A5	D4	U114A	B2	B1	U430C	F1	E3
R200C	G6	C0	R340F	C3	D4	U114B	B4	B1	U430D	B1	E3
R200D	B2	C0	R400A	F2	E0	U114C	A3	B1	U436A	H3	E3
R200E	A2	C0	R400B	E3	E0	U114D	A1	B1	U436B	H3	E3
R200E	C4	C0	R400D	E3	E0	U124A	A3	B2	U436C	H3	E3
R200G	A1	C0	R400E	E3	E0	U124B	B4	B2	U436D	H4	E3
R210A	F5	C1	R406A	E3	E0	U124C	B4	B2	U440B	C3	E4
R210B	F5	C1	R410A	F3	E1	U134A	C4	B3	U440D	C3	E4
R210C	F6	C1	R410D	F3	E1	U134B	H4	B3	U448A	C4	E4
R210D	G5	C1	R420E	H4	E2	U144A	C6	B4	U448B	C4	E4
R210E	G2	C1	R420F	H4	E2	U144B	C5	B4	U448A	G2	G4
R210F	G5	C1	R420G	H3	E2	U144C	H5	B4	U448B	G2	G4
R220A	D2	C2	R440A	F1	E4	U144D	C5	B4	U448C	G2	G4
R220B	D2	C2	R440C	C3	E4	U200A	A2	C0	U936B	C1	J3
R220C	G4	C2	R440D	G3	E4	U200B	B2	C0	U936C	C1	J3
R220E	E5	C2	R440E	G3	E4	U206A	D5	C0	U946A	G2	J4
R220F	H6	C2	R440F	C3	E4	U206B	C5	C0	U946B	G2	J4
R220G	D5	C2	R440G	H4	E4	U210A	A3	C1			
R230A	E5	C3	R608A	A3	C0	U210B	A1	C1	Y426	H4	E2
R230B	H1	C3	R700D	A5	H0	U216	G5	C1			
R230E	H1	C3	R726A	E1	H2	U220A	E4	C2			

P/O A20 ASSY ALSO SHOWN ON ◇24◇

P/O A68 ASSY — BUFFER CONTROL ◇25◇

J444	B1	E4	J444	C5	E4	J444	G5	E4	—	—	—

P/O A68 ASSY - SEE FIG. 7-37



P/O A20 ASSY — BUFFER OUTPUT PORT 26

Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location
C034*		A2	C720	C3	H2
C034*	B3	B0	C748	B3	H4
C045*	H5		C748	B4	H4
C100	B1	B0	C800	B4	I0
C106	B3	B0	C820	B4	I2
C108	B2	B0	C822	B5	I2
C116	B2	B1	C828	B5	I3
C118	B3	B1	C830	C4	I3
C126	C3	B2	C900	C3	J0
C128	C2	B2	C902	C1	J0
C136	C2	B3	C910	C4	J2
C138	C3	B3	C912	C3	J3
C146	B4	B4			
C148	B3	B4	CR318	C2	D1
C206	B3	C0	CR828	C2	G2
C215*		C1			
C216	B3	C1	F034*		A3
C226	B4	C2	F044*	B3	A4
C228	C3	C2	F530	B2	F3
C236*	C3	C1	F540	B1	F4
C238	B4	C3			
C246	C4	C4	P500	D5	F0
C248	B3	C4			
C300*		D0	Q044*		A4
C310*		D0	R042*		A4
C316	B3	D1	R044*		A4
C326	B3	D3	R048*		
C338	B4	D3	R210G	G5	C1
C346	B4	D4	R238*		D2
C348	C3	D4	R100*		D0
C410	B4	E1	R106*	C2	D1
C424	C3	E2	R816	C1	G1
C430	B1	E3	R820	B3	G2
C500	C1	F0	R720	C2	H2
C510	C1	F1			
C520	B1	F2	U300B	G6	D0
C540	B2	F4	U300D	G8	D0
C600	B1	G0	U400D	F8	E0
C602	B1	G0	U500	E3	F0
C610	B1	G1	U508	D3	F0
C616	C1	G1	U510	E4	F1
C620	C1	G2	U516	F4	F1
C630	B1	G3	U520	F3	F2
C634	B1	G3	U538	G2	F3
C638	B3	G3	U548	G3	F4
C640	B1	G4	U600A	F6	G0
C646	C1	G4	U600B	F6	G0
C704	C4	H0	U600C	G6	G0
C705	B3	H0	U600D	G6	G0
C710	B3	H1	U610	E1	G1
C715	C4	H1	U620	E2	G2
C716	C3	H1	U630	E3	G3
			U640	G1	G4

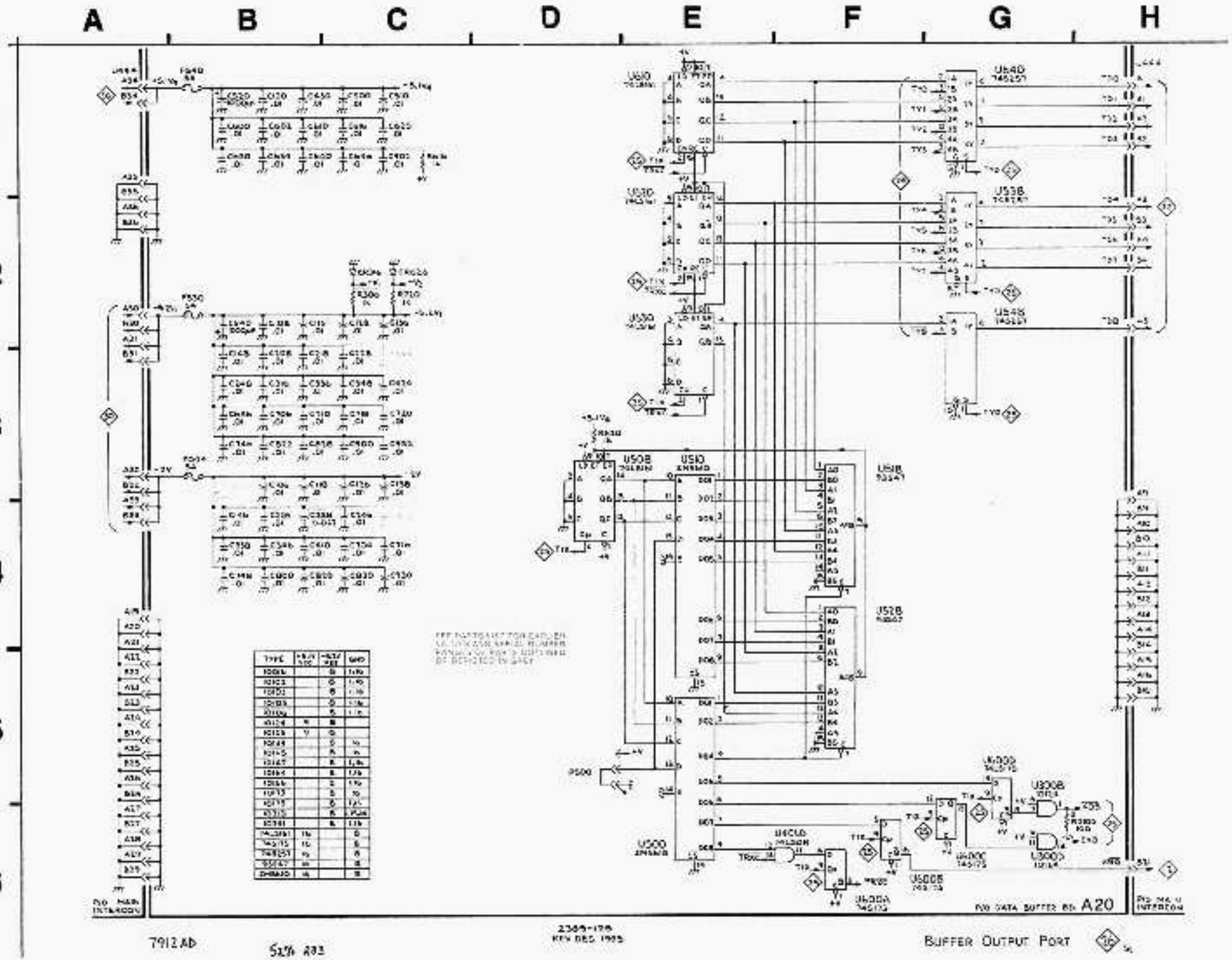
P/O A20 ASSY ALSO SHOWN ON 24 & 25

P/O A68 ASSY — BUFFER OUTPUT PORT 26

J464	A1	E4	J444	H1	E4

P/O A68 ASSY - SEE FIG. 7-37

*See Parts List for serial number ranges.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BUFFER OUTPUT PORT
BUFFER OUTPUT PORT
7912 AD
2365-126
REV DEC 1985

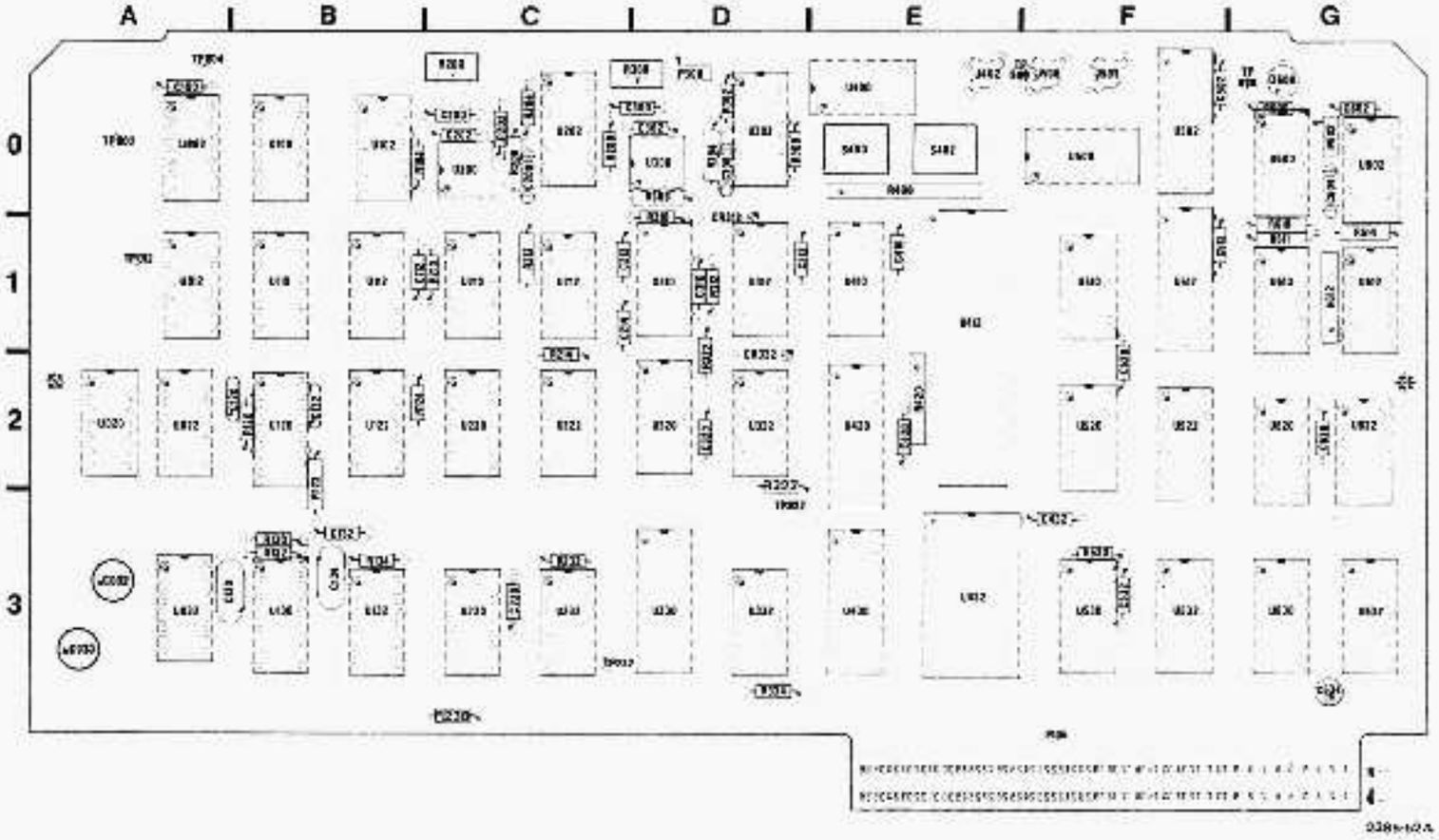
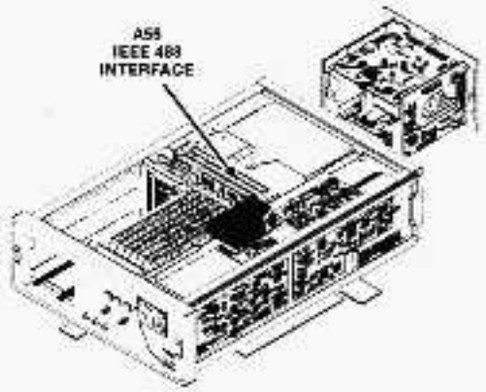


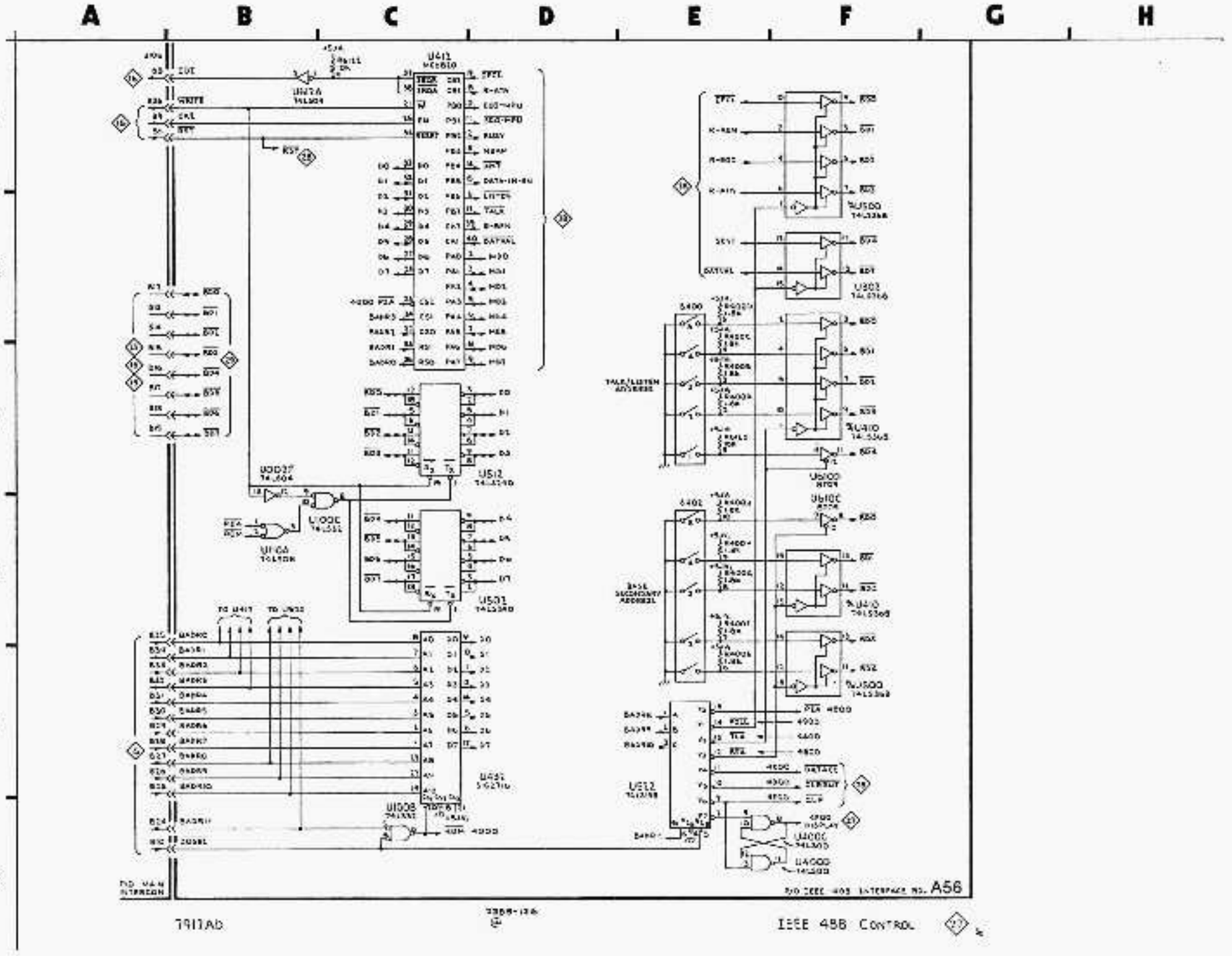
Fig. 7-30. The IEEE 488 interface circuit board, assembly A56.



COMPONENT NUMBER EXAMPLE

P/O A55 ASSY				IEEE 488 CONTROL ◇27◇	
Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location
R400A	E3	E0	U100B	C6	B0
R400B	E3	E0	U100C	C4	B0
R400C	E2	E0	U110A	B5	B1
R400D	E2	E0	U302	F2	D0
R400E	E3	E0	U400C	E6	E0
R400F	E4	E0	U400D	E6	E0
R400G	E4	E0	U410	F3	E1
R400H	E4	E0	U410	F4	E1
R400J	E4	E0	U412	C1	E1
R512	C3	F1	U432	C5	E3
R512D	E3	G1	U500	F1	F0
R512E	C1	G1	U500	F5	F0
			U502	C4	F0
S400	E3	E0	U522	E5	F2
S402	E4	E0	U610C	F4	G1
			U610D	F3	G1
U002F	B3	A0	U612A	B1	G1
P/O A55 ASSY ALSO SHOWN ON ◇28◇ & ◇29◇					

P/O A68 ASSY				IEEE 488 CONTROL ◇27◇	
J106	A1	A0	—	—	—
P/O A68 ASSY - SEE FIG. 7-37					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U508
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U6100
MTD4
U6101
MTD4
5400
5401
TALK/LISTEN ADDRESS
BASE SECONDARY ADDRESS
TO U411
TO U502
TO MAIN INTERCON
P/O IEEE 488 INTERFACE NO. A56
7911AD
IEEE 488 CONTROL
IEEE 488 CONTROL

P/O A56 ASSY — IEEE 488 HANDSHAKE (28)

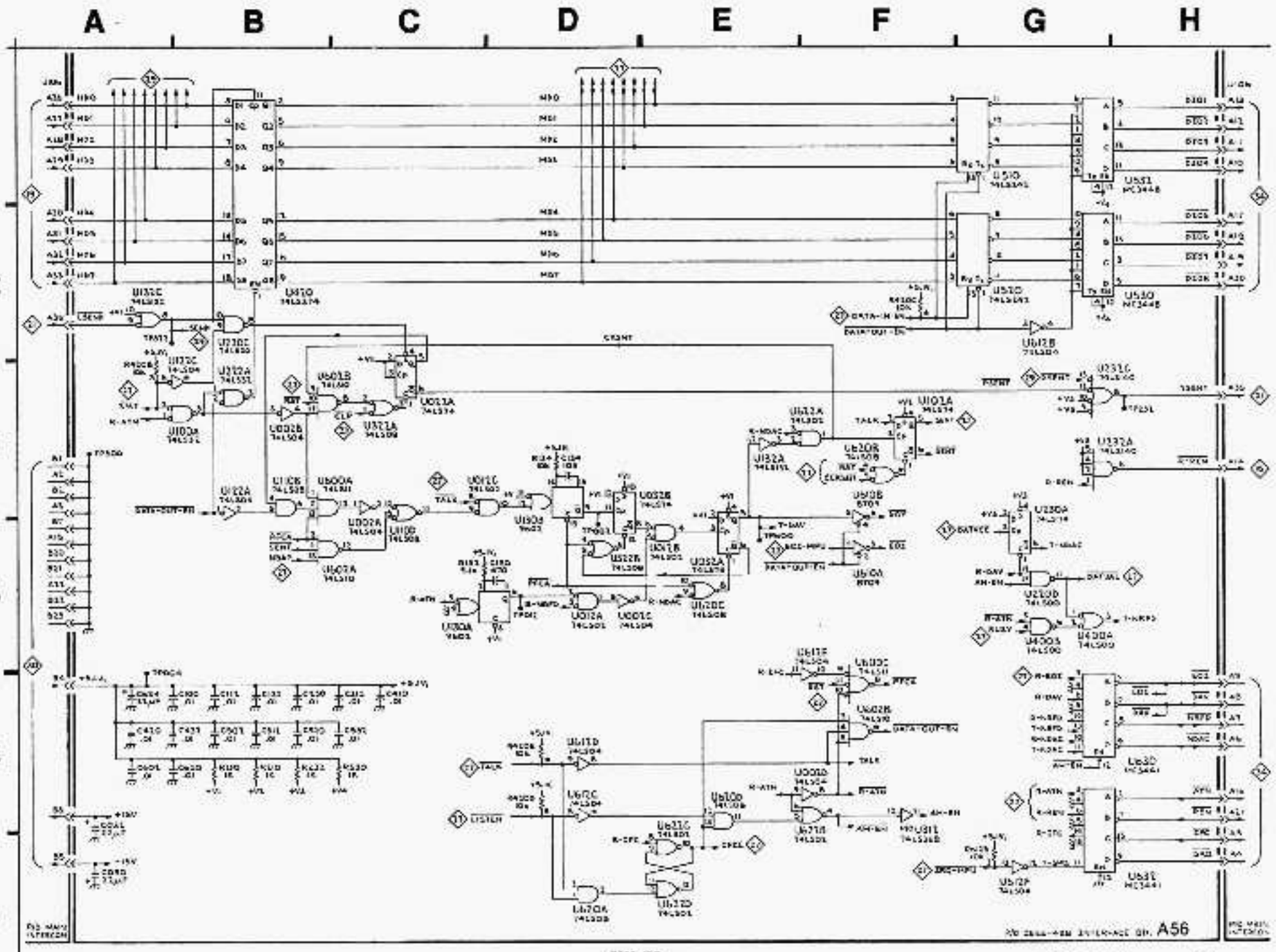
Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location
C030	A5	A3	U022A	C3	A2
C032	A5	A3	U032A	E4	A3
C100	A5	A0	U032B	D3	A3
C112	B5	B1	U100A	A3	B0
C130	C4	B3	U102A	F3	B0
C132	B5	B3	U110B	B3	B1
C134	D3	B3	U110D	C3	B1
C210	B5	C1	U132A	B3	B2
C212	C5	D1	U132C	A3	B2
C410	C5	E1	U130A	C4	B3
C420	A5	E2	U130B	D3	B3
C432	A5	F3	U132A	E3	B3
C502	B5	F0	U132C	A2	B3
C512	B5	F1	U220C	B2	C2
C520	B5	F2	U220D	G4	C2
C532	C5	F3	U222A	B3	C2
C602	A5	G0	U230A	G4	C3
C620	A5	G2	U232A	G3	C3
C634	A5	G3	U232C	G3	C3
			U322A	C3	D2
J106	A1	E3	U322B	D4	D2
J106	H1	E3	U400A	G4	E0
			U400B	G4	E0
R130	B5	B3	U420	B1	E2
R132	C4	B3	U510	G1	F1
R134	D3	B3	U520	G2	F2
R210	B5	C1	U530	H2	F3
R232	B5	C3	U532	H1	F3
R420B	A3	F2	U600A	B3	G0
R420C	F2	E2	U600C	F5	G0
R420D	D5	E2	U602A	B4	G0
R420E	D5	E2	U602B	B3	G0
R530	C5	F3	U602B	F5	G0
R612B	C6	G1	U610A	F4	G1
			U610B	F3	G1
TP002	D3	A3	U612B	G2	G1
TP004	A5	A3	U612C	D5	G1
TP012	D4	A1	U612D	D5	G1
TP232	H3	C3	U612E	F4	G1
TP322	A2	E3	U612F	G6	G1
TP500	A3	F0	U620A	D5	G2
TP600	E4	G0	U620B	F3	G2
			U620C	E4	G2
U012A	C3	A0	U620D	E5	G2
U012B	B3	A0	U622A	F3	G2
U012C	D4	A0	U622B	F3	G2
U012D	F5	A0	U622C	E6	G2
U012A	D4	A1	U622D	E6	G2
U012B	E4	A1	U630	G5	G3
U012C	C3	A1	U632	G5	G3

P/O A56 ASSY ALSO SHOWN ON (27) & (29)

P/O A55 ASSY — IEEE 488 CONTROL (28)

J106	A1	E3	J106	H1	E3

P/O A55 ASSY - SEE FIG. 7-37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P/O A55 ASSY — XYZ DISPLAY 28

Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location
C120	B3	B2	R310	G1	D1
C122	C3	B2	R312	G1	D1
C200	G2	C0	R332*	G3	D2
C202	G3	C0	R332*	B2	D2
C206	G3	C0	R334	B4	D3
C212	F2	C1	R503	G4	G0
C214	F3	C1	R510	F4	G1
C300	G1	D0	R511	F4	G1
C302	G2	D0	R514	G4	G1
C308	G1	D0	U002E	C3	A0
C310	F1	D1	U012D	C3	A1
C320	F2	D2	U022B	D3	A2
C504	G4	G0	U103D	C4	B0
CR312	G1	D1	U110C	C4	B1
CR322	G2	D2	U112A	D3	B1
P300	E4	B0	U120A	B3	B2
P402	H2	E0	U120B	C3	B2
P500	H3	F0	U122D	C5	B2
P502	H4	F0	U122E	D4	B2
P602	F4	G0	U122F	B2	B2
			U132D	B2	B3
Q503	G4	G0	U200	G3	C0
			U202	E1	C0
R104	G3	B0	U210A	D3	C1
R120	B3	B2	U210B	D3	C1
R122	C3	B2	U212A	D1	C1
R124	B2	B2	U212B	B2	C1
R200	G2	C0	U222C	C5	C2
R202	G3	C0	U222D	D5	C2
R204	E4	C0	U230B	C6	C3
R206*	B2		U300	G2	D0
R206	G3	C0	U302	E2	D0
R207*	B2		U310	F1	D1
R208	G2	C0	U312	E3	D1
R212	G3	C1	U320	F3	D2
R214	G2	C1	U322C	D4	D2
R238*	B2	D3	U322D	B3	D2
R330	G1	D0	U330	C5	D3
R332	E4	D0	U332A	B4	D3
R334	G1	D0	U332B	C6	D3
R335	G1	D0	U430	D5	E3
R338	G2	D0	U503B	C4	G0

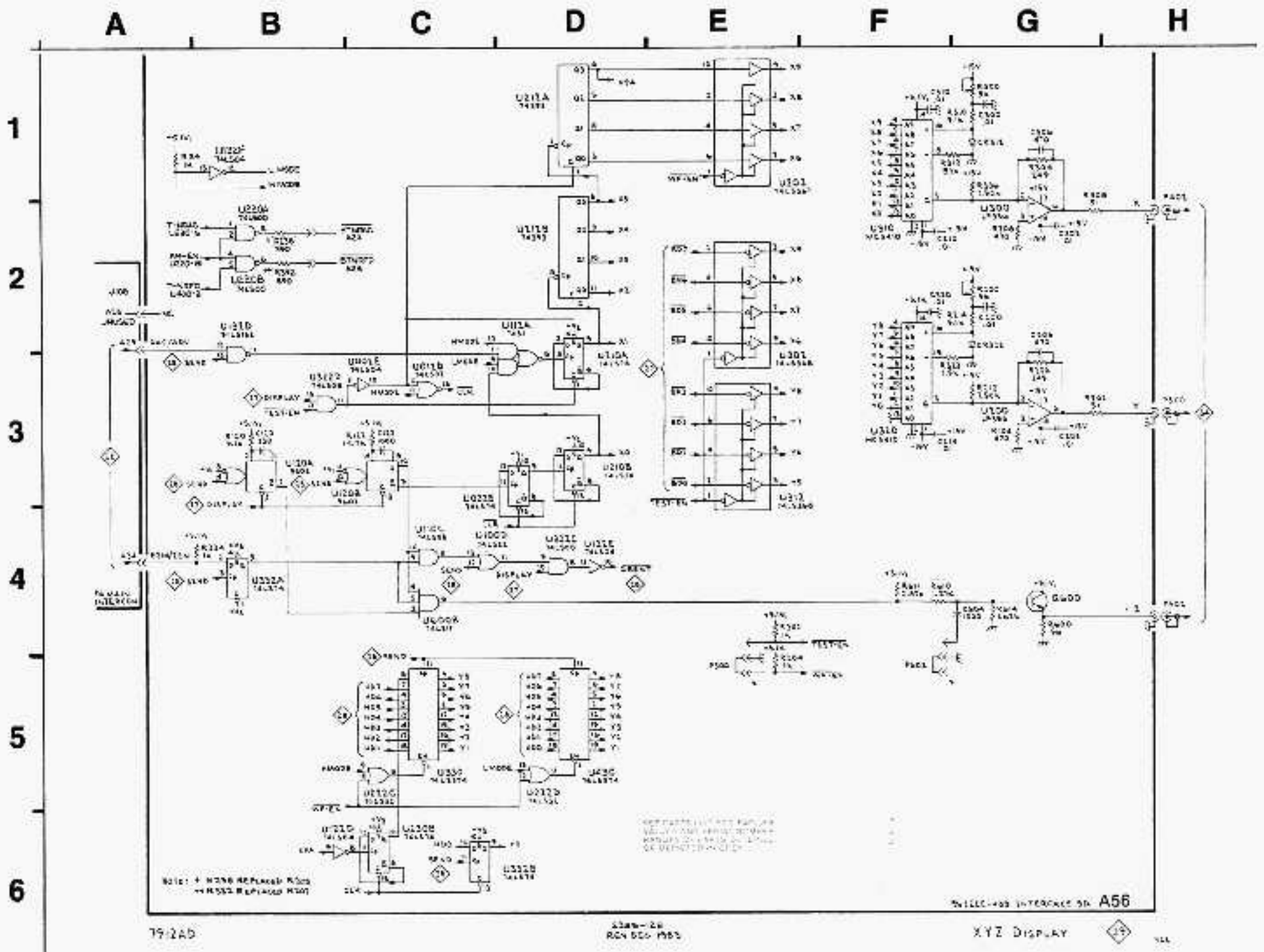
P/O A56 ASSY ALSO SHOWN ON 29

P/O A58 ASSY — XYZ DISPLAY 25

J108	A2	A3	—	—	

P/O A58 ASSY - SEE FIG. 7-37

*See Parts List for serial number ranges.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XYZ DISPLAY
A56
79/2A5
XYZ Display

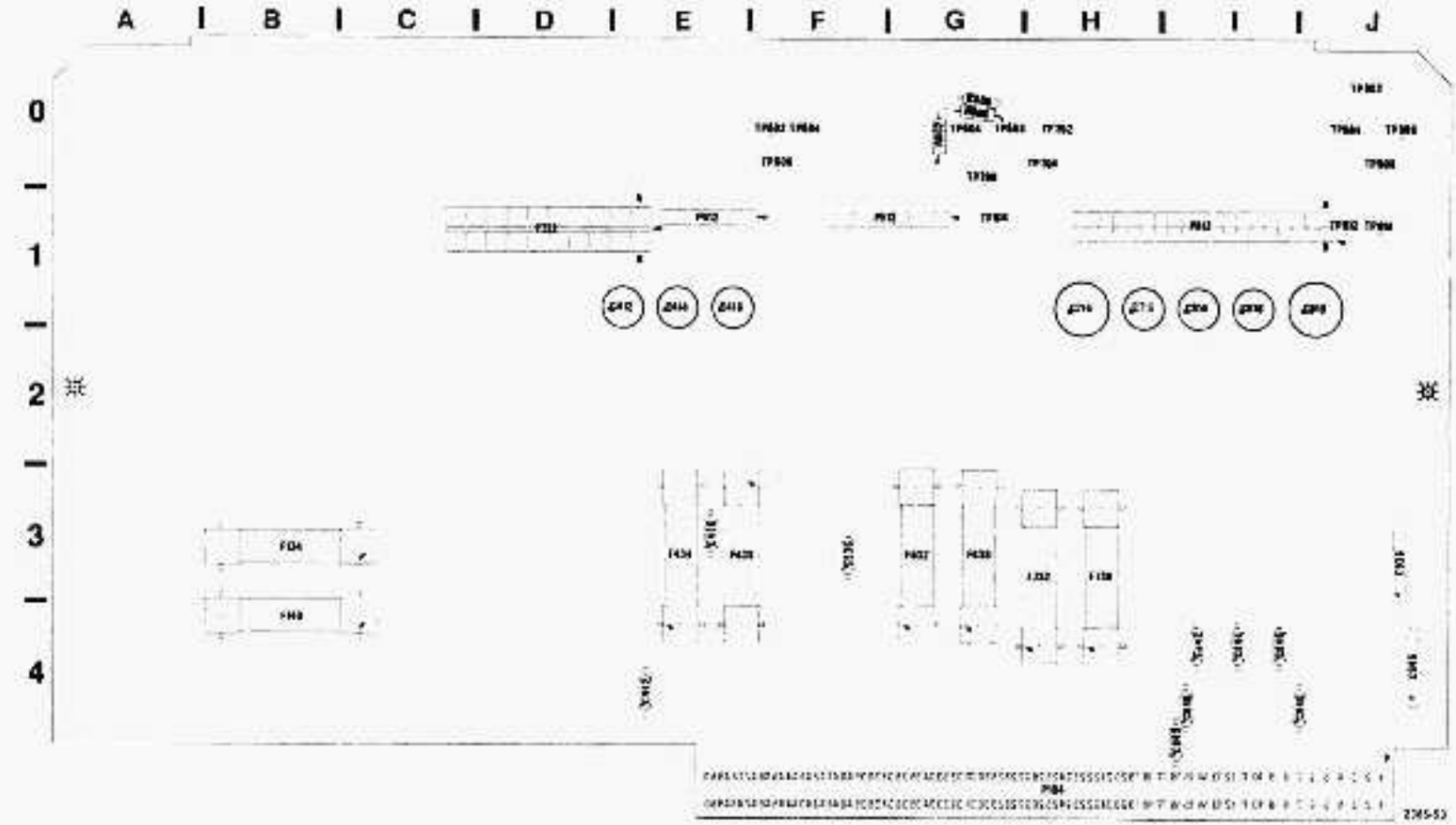
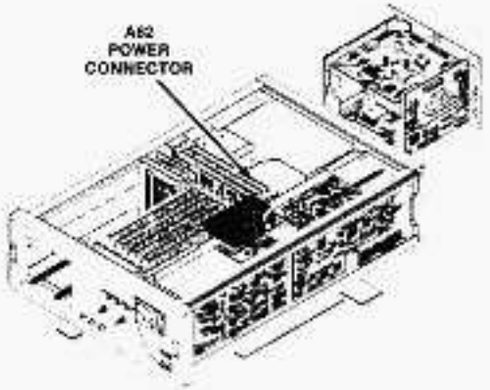


Fig. 7-31. The Power Connector circuit board, assembly A52.



COMPONENT NUMBER EXAMPLE

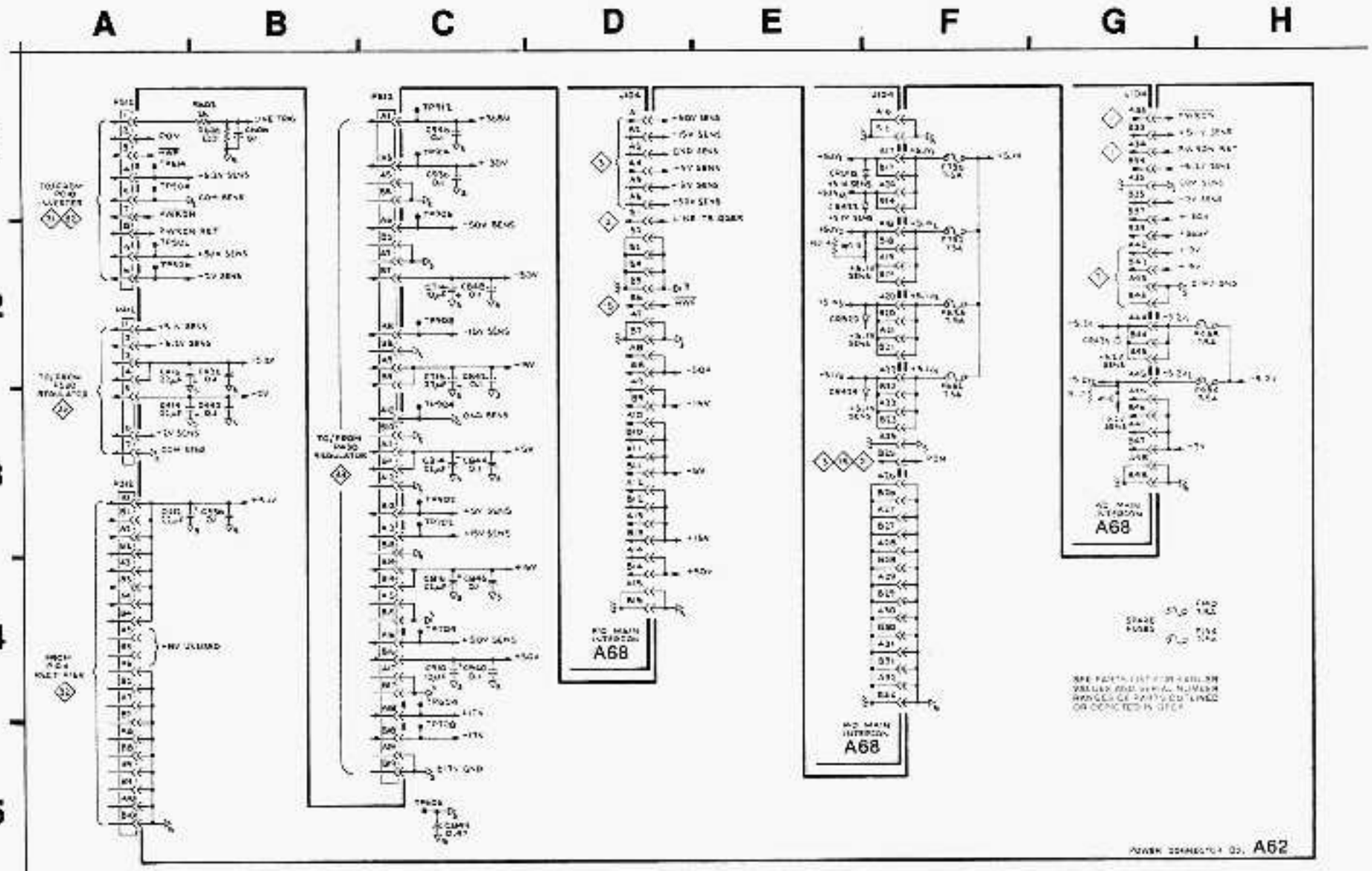
A23 A2 R1234

P/O A62 ASSY				POWER CONNECTOR 30	
Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location
C412	A3	E1	F638	F2	C3
C414	A3	E1	F732	F2	H3
C416	A2	E1	F738	F1	H3
C436	B2	E3			
C442	B3	E4	P312	A3	D1
C536	B3	F3	P412	A2	E1
C606	B1	G0	P512	A1	F1
C714	C2	H1	P812	C1	I1
C716	C2	H1			
C814	C3	I1	R502	B1	G0
C816	C4	I1	R506	B1	G0
C842	C2	I4			
C844	C3	I4	TP502	A2	F0
C846	C4	I4	TP504	A1	F0
C848	C2	I4	TP506	A2	F0
C849	C5	I4	TP604	C4	G0
C910	C4	J1	TP614	A1	G1
C936	C1	J3	TP702	C3	H0
C940	C4	J4	TP704	C4	H0
C946	C1	J4	TP708	C4	G0
			TP902	C3	J0
F134	H4	B3	TP904	C3	J0
F140	H4	B4	TP906	C1	J0
F434	H3	E3	TP908	C2	J0
F438	H2	E3	TP912	C1	J1
F632	F3	G3	TP914	C1	J1

P/O A68 ASSY				POWER CONNECTOR 30	
CR018	E1	A1	J104	F1	A0
CR422	E1	E2	J104	G1	A0
CR424	E3	E2	R014*	E2	A1
CR426	G2	E2	R110*	G3	B1
CR520	E2	F2	W014*	E2	A1
J104	D1	A0	W110*	G3	B1

P/O A68 ASSY - SEE FIG. 7-97

*See Parts List for serial number ranges.


A
B
C
D
E
F
G
H
1
2
3
4
5
6
A68
A68
A68
A62
POWER CONNECTOR

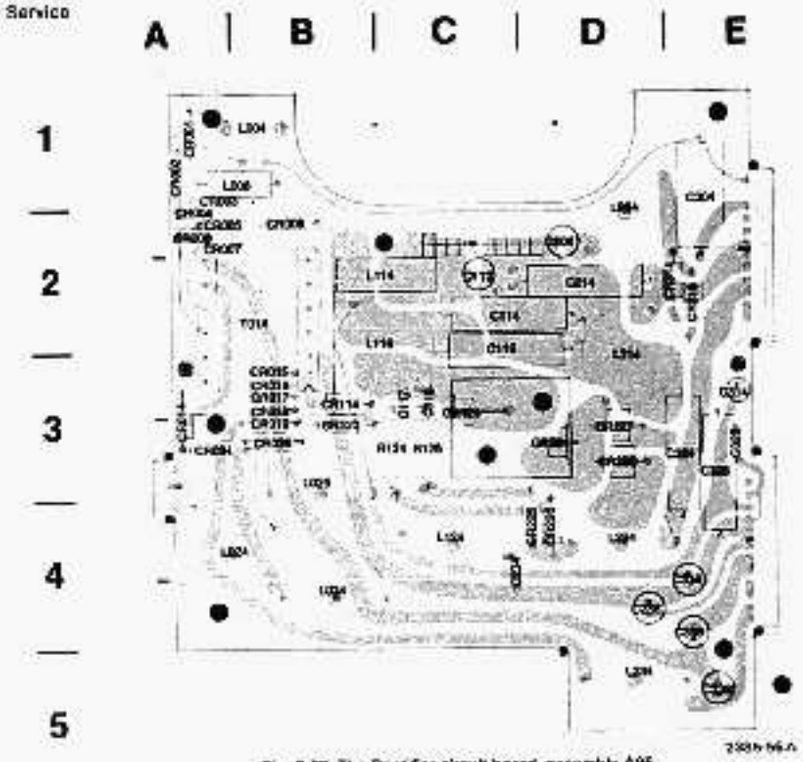


Fig. 7-33. The Rectifier circuit board, assembly A86.

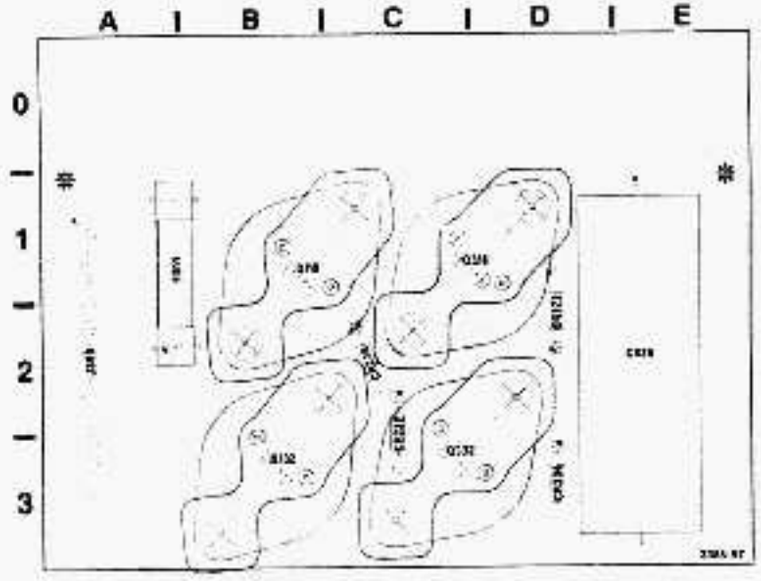


Fig. 7-34A. The Socket circuit board, assembly A84 (SN B089999 & below).

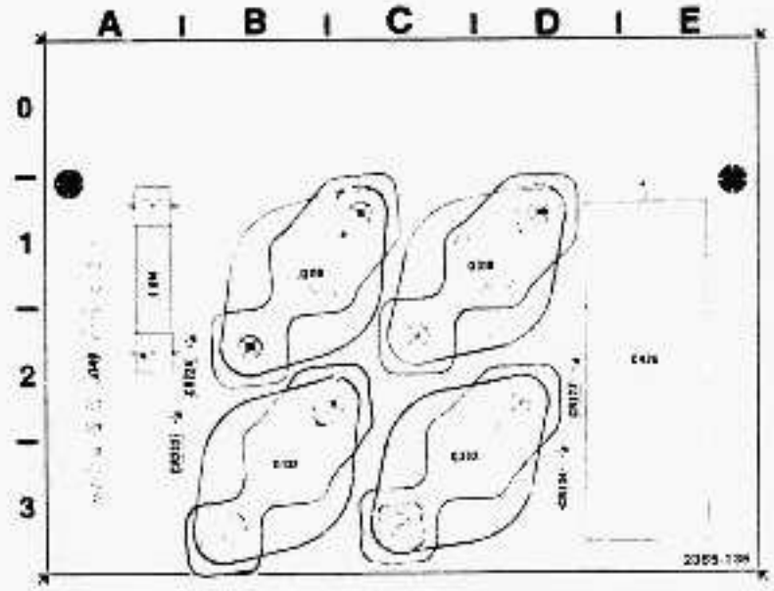
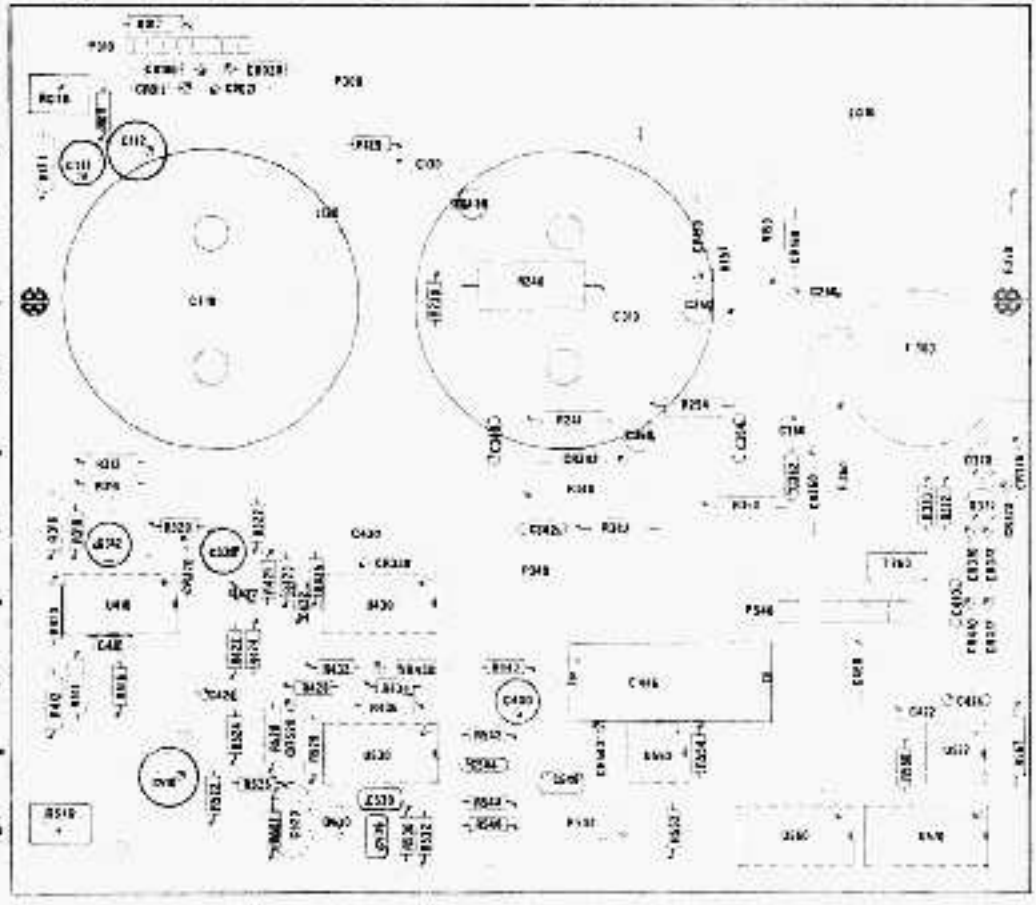


Fig. 7-34B. The Socket circuit board, assembly A84 (SN B090000 & up).

P/O A86 ASSY						INVERTER RECTIFIER 32		
Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location
C112	H4	B1	CR007	G1	A0	J560	H1	D0
C114	H5	B1	CR008	G1	A0	J560	H2	D1
C116	H5	B1	CR014	G3	A2	J560	H4	D1
C117	G4	B1	CR015	G2	A1	J560	H5	D1
C118	G5	B1	CR016	G2	A1			
C204	H4	C0	CR017	G2	A1	L004	H1	A0
C214	H4	C1	CR018	G2	A1	L006	H1	A0
C234	H2	C3	CR019	G3	A2	L024	H2	A2
C238	H2	C3	CR024	G3	A2	L026	H2	A2
C304	H1	D0	CR026	G3	A2	L034	H3	A3
C314	H1	D1	CR114	G2	B1	L114	H4	B1
C324	H2	D2	CR123	G2	B2	L116	H4	B1
C324	H5	D2	CR124	G5	B1	L124	G2	B2
C326	G2	D2	CR224	G4	C2	L204	H4	C0
C334	H2	D3	CR225	G5	C2	L214	H4	C1
C336	H3	D3	CR226	G5	C2	L224	H5	C2
C338	H3	D3	CR227	G4	C2	L234	H3	C3
			CR228	G4	C2			
CR001	G1	A0	CR314	G4	D1	R126	G5	B2
CR002	G1	A0	CR316	G4	D1			
CR003	G1	A0				T014	G1	A1
CR004	G1	A0	J160	H2	D2			
CR005	G1	A0	J160	H3	D2			
CR006	G1	A0	J360	F5	A2			

P/O A84 ASSY (SN B089999 & below)						INVERTER RECTIFIER 32		
C425	F2	E2	CR322	F1	D2	Q118	F2	B1
			CR334	F2	D3	Q132	F2	B3
CR224	F2	C0				Q318	F1	D1
CR232	F2	C2	T014	F1	A1	Q332	F2	D3

A84 ASSY (SN B090000 & up)						INVERTER RECTIFIER 32		
R26	F2	E2	CR334	F2	D3	Q132	F2	B3
R234	F2	B2	P614	F1	A1	Q318	F1	D1
R232	F2	A3				Q332	F2	C3
R322	F1	D2		F2	B1			



2385-151

Fig. 7-35A. The inverter circuit board, assembly A82 (SN B100941 & up).

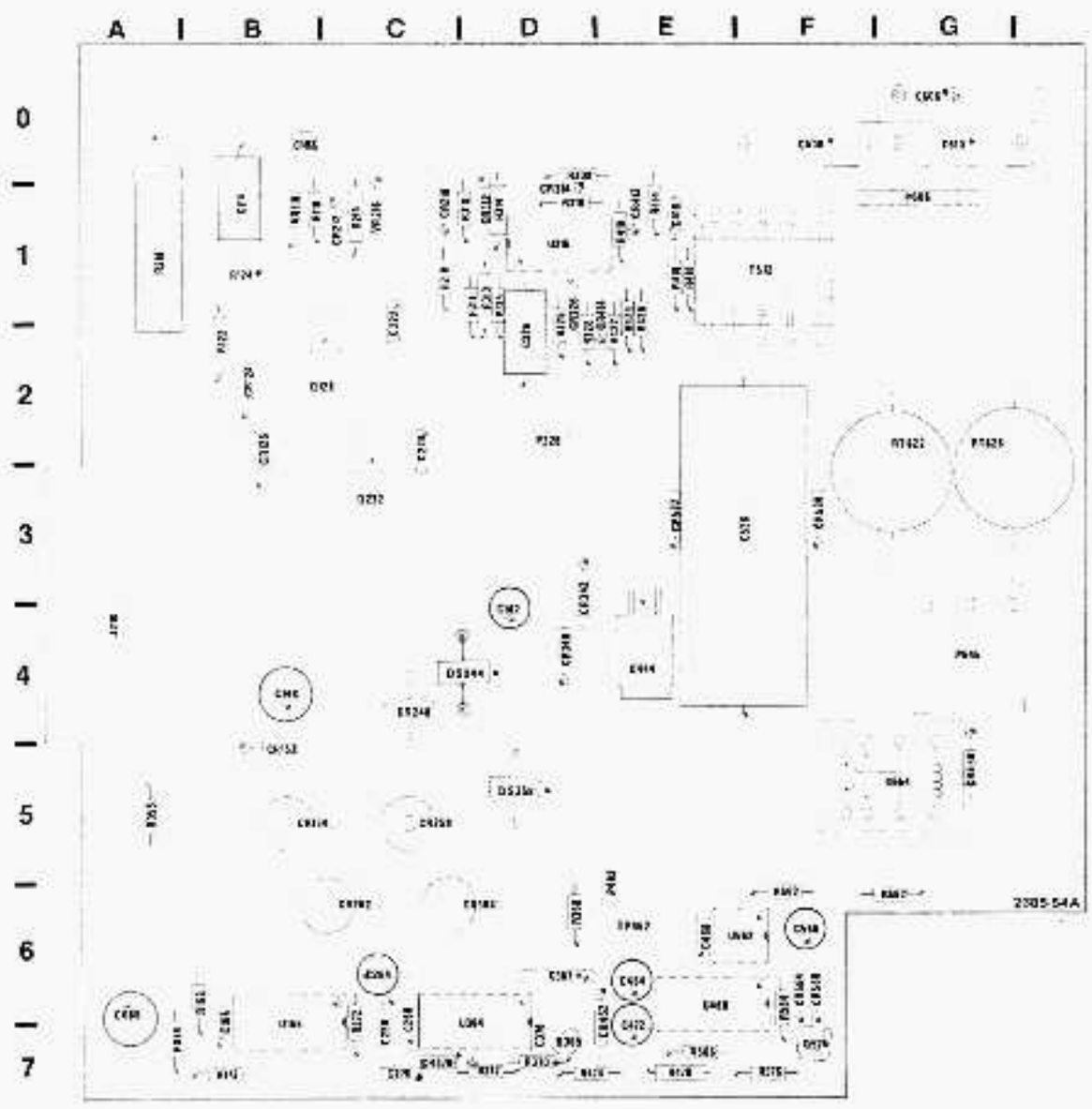


Fig. 7-32. The Fan circuit board, assembly A80.

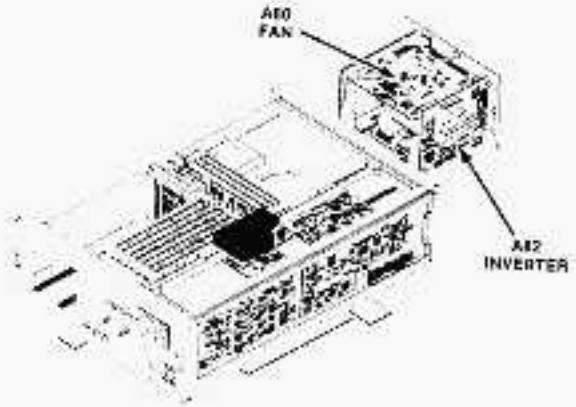
*See Parts List for serial number ranges.

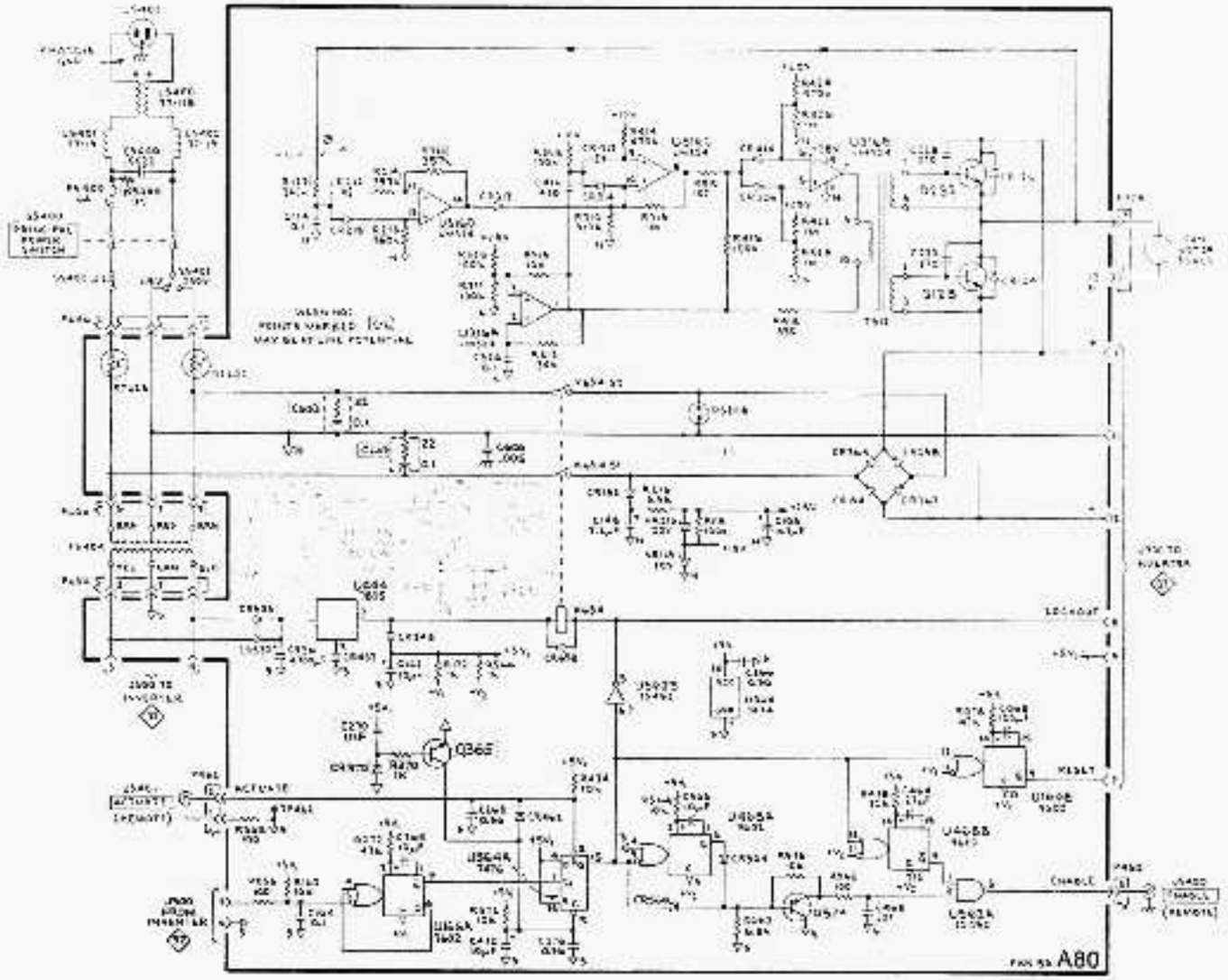
P/O A80 ASSY			POWER CONTROL 31		
Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location
B5400	H2	CHASSIS	Q125	G2	B2
			Q232	G2	C3
C050	G4	A6	Q365	E5	D7
C108	F3	B6	Q574	F5	F7
C114	C2	B1	R056	C5	A5
C142	D4	D4	R078	G4	A7
C148	E3	B4	R116	E3	B1
C164	C5	B6	R122	C2	B2
C222	F2	C1	R124	C2	B1
C228	F2	C3	R162	C5	B6
C264	D5	C6	R172	D4	B7
C266	E4	C6	R214	D2	C1
C268	D5	C6	R216	E3	A1
C326	D2	D2	R218	D2	C1
C376	E5	D7	R272	D5	C7
C416	E2	E1	R308	E2	D0
C464	F5	E6	R310	E2	D1
C466	F5	E6	R311	D2	D1
C472	D5	E7	R313	D2	D1
C536	C4	F3	R314	D2	D1
C566	E6	F6	R315	D2	D1
C5400	B2	CHASSIS	R318	E2	D1
			R326	D2	D2
CR124	G2	B2	R328	F2	D2
CR126	G2	B2	R368	C5	D6
CR152	E3	B5	R372	D5	D7
CR154	F2	B5	R410	E2	E1
CR212	C2	C1	R414	E2	E1
CR216	C2	C1	R416	E2	E1
CR258	F3	C5	R418	F2	E1
CR262	F3	C5	R422	F2	E2
CR312	D2	D1	R424	F1	E2
CR314	E2	D1	R426	F1	E2
CR326	E2	D2	R474	E5	E7
CR348	D4	D4	R478	F5	E7
CR364	F2	D6	R562	F5	F6
CR412	E2	E1	R564	E5	F6
CR414	E2	E1	R566	D6	E7
CR432	C4	E3	R576	F6	F8
CR462	D5	E6	R662	E5	G6
CR532	C4	E3			
CR536	C4	F3	RT622	C3	G2
CR564	E5	F6	RT626	B3	G2
CR566	E5	F6			
			S5400	B2	CHASSIS
CR656	E4	G4	S5401	C2	CHASSIS
D5244	E3	C4	S5402	B2	CHASSIS
D5248	E3	C4			
			T512	F2	F1
F5400	B2	CHASSIS	TP462	C5	E6
J5400	H5	CHASSIS	U166A	D5	B6
J5401	C5	CHASSIS	U166B	G4	B5
J5402	B1	CHASSIS	U316A	D2	D1
			U316B	F2	D1
K654	E4	G5	U316C	E2	D1
			U316D	D2	D1
L5400	B1	CHASSIS	U364A	E5	D6
L5401	B1	CHASSIS	U448	C4	C4
L5402	C1	CHASSIS	U468A	E5	E6
			U468B	F5	E6
P328	G2	D2	U562A	G5	F6
P462	G5	E5	U562B	E4	F6
P506	B1	G3			
P636	C3	G3	VR116	E3	B1
P648	B2	G4	VR216	E3	C1

COMPONENT NUMBER EXAMPLE

A23 A2 R1234

A23 = Assembly Number
A2 = Schematic Location
R1234 = Component Number


A10
FAN
A12
INVERTER



SEE PARTS LIST FOR EARLIER
NUMBERS OF PARTS SUPPLIED
OR DISCRETE W. DIRBY

7912 AD

Power Control 3

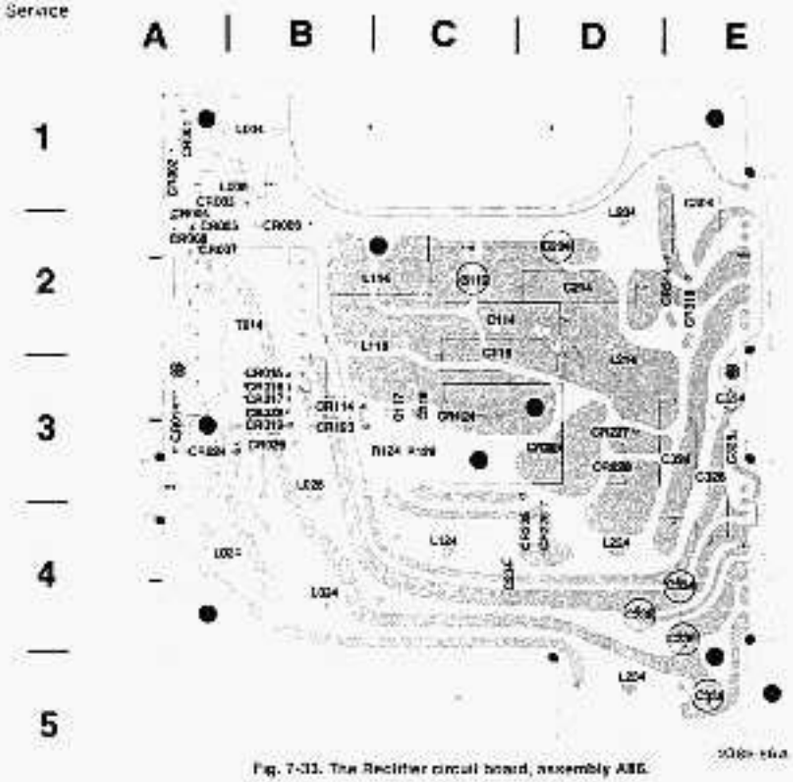


Fig. 7-33. The Rectifier circuit board, assembly A85.

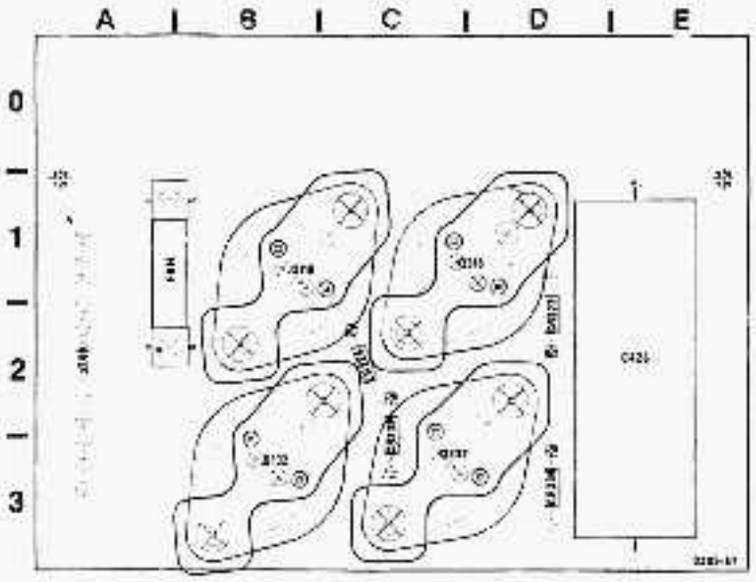


Fig. 7-34A. The Socket circuit board, assembly A84 (SN B089999 & below).

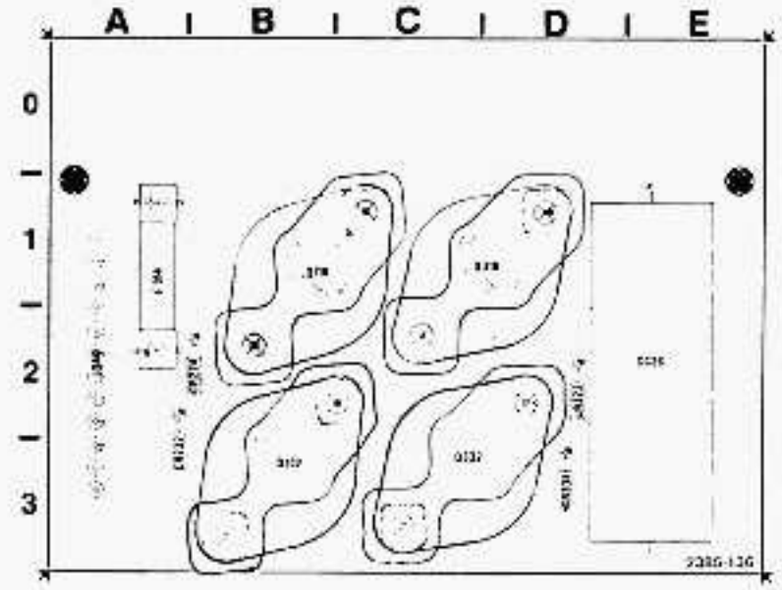


Fig. 7-34B. The Socket circuit board, assembly A84 (SN B090000 & up).

P/O A85 ASSY							INVERTER RECTIFIER 32	
Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location
C112	H4	B1	CR007	G1	A0	J560	H1	D0
C114	H5	B1	CR008	G1	A0	J560	H2	D1
C116	H6	B1	CR014	G2	A2	J560	H4	D1
C117	G4	B1	CR015	G2	A1	J560	H5	D1
C118	G5	B1	CR016	G2	A1			
C204	H4	C0	CR017	G2	A1	L004	H1	A0
C214	H4	C1	CR018	G2	A1	L006	H1	A0
C234	H2	C3	CR019	G3	A2	L024	H2	A2
C238	H2	C3	CR024	G3	A2	L026	H2	A2
C304	H1	D0	CR026	G3	A2	L034	H3	A3
C314	H1	D1	CR114	G2	B1	L114	H4	B1
C324	H2	D2	CR123	G2	B2	L116	H4	B1
C334	H5	D2	CR124	G5	B1	L124	G2	B2
C336	G2	D2	CR224	G4	C2	L204	H4	C0
C354	H2	D3	CR225	G5	C2	L214	H4	C1
C356	H3	D3	CR226	G5	C2	L224	H5	C2
C358	H3	D3	CR227	G4	C2	L234	H3	C3
			CR228	G4	C2			
CR001	G1	A0	CR314	G4	D1	R126	G5	B2
CR002	G1	A0	CR316	G4	D1			
CR003	G1	A0				T014	G1	A1
CR004	G1	A0	J160	H2	D2			
CR005	G1	A0	J160	H3	D2			
CR006	G1	A0	J360	F6	A2			

P/O A84 ASSY (SN B089999 & below)							INVERTER RECTIFIER 32	
C425	F2	E2	CR322	F1	D2	Q118*	F2	B1
			CR334	F2	D3	Q132*	F2	B3
CR224	F2	C0				Q318*	F1	D1
CR232	F2	C2	F016	F1	A1	Q332*	F2	D3

*See Parts List for serial number ranges.

VD A84 ASSY (SN B090000 & up)						INVERTER RECTIFIER 32		
C426	F2	E2	CR834	F2	D5	Q132	F2	B6
CR234	F2	B2	FD14	F1	A1	Q315	F1	D1
CR232	F2	A3				Q832	F2	C3
CR322	F1	D3		F2	B1			

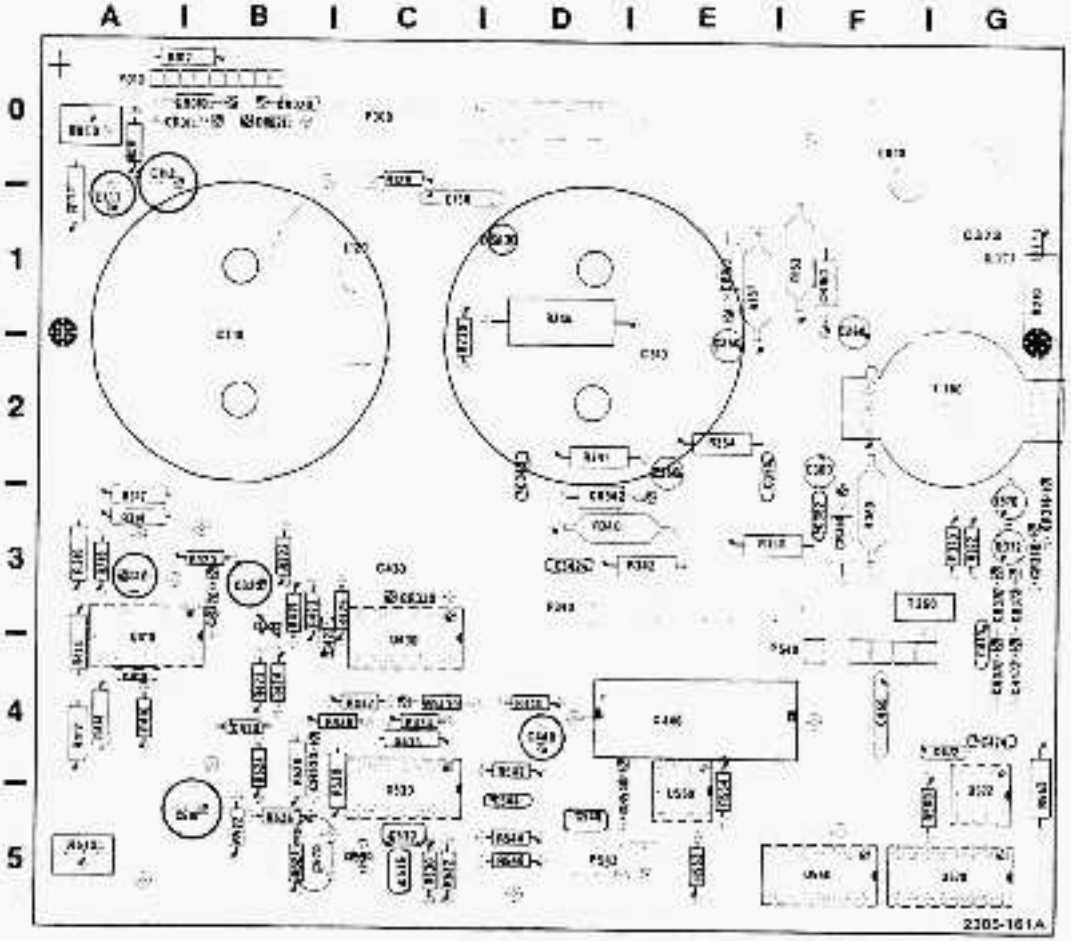


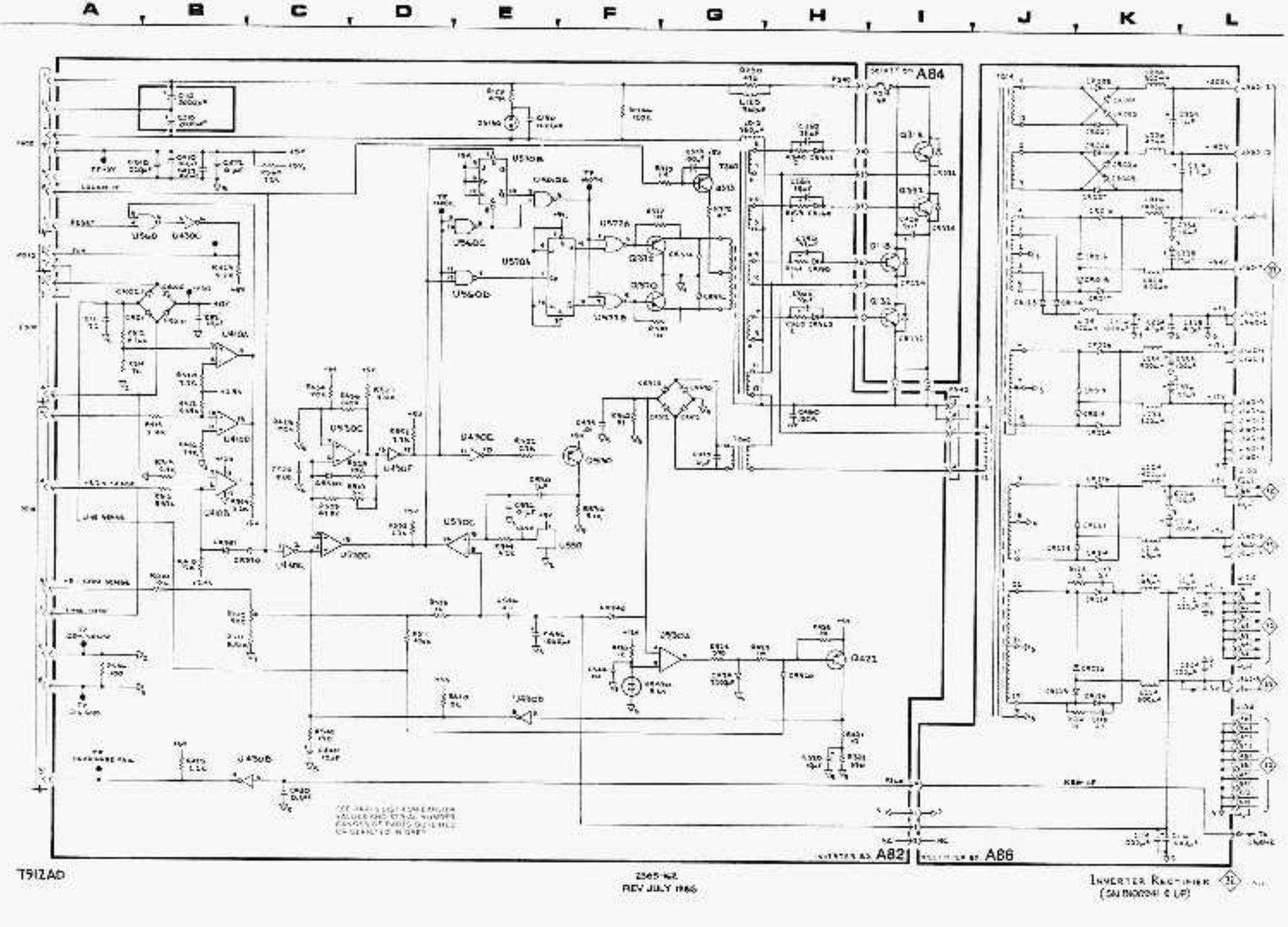
Fig. 7-35A. The inverter circuit board, assembly A82 (SN B100941 & up).

A03 ASSY (SN B100941 & UP)

INVERTER RECTIFIER

Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location
C110	B1	CHASSIS	L010	G1	F0	R434	C3	C4
C111	A3	A1	L120	G1	C1	R435	C3	C4
C112	B3	A0				R440	E6	D4
C130	E1	C1	P010	A2	A0	R510	D4	A5
C250*	H2	E2	P300	A1	D0	R510	D4	
C260*	H1	F1	P340	H1	D3	R522	E4	B5
C310	B1	CHASSIS	P540	G	F4	R524	G6	B4
C320	H7	B3				R525	D6	B5
C340*	H1	D2	C370	F2	G3	R527	B3	B5
C342*	H2	D3	C372	F2	G3	R528	D4	B4
C350*	H1	E2	C373*	G1	G1	R529	C5	C4
C354	H1	E2	C422	H6	B3	R530	F5	C5
C360*	H2	F2	C530	F4	C6	R532	D5	C5
C362*	H2	F3				R542	C7	D4
C373*	G1	G1	R010	B5	A0	R544	E5	D5
C410	B1	A4	R011	D5	A0	R546	A6	D6
C422	B1	B4	R012		A0	R552	D4	E5
C424	G6	B4	R111	B6	A1	R554	B4	E5
C430*	C7	C3	R129	E1	C0	R560	C1	G5
C440	C7	D4	R151	H2	E1	R562	F4	G5
C445	E6	E4	R153	H2	F1			
C460	H4	F4	R230	G1	C2	T260	G4	F3
C470	G4	G4	R241*	H1	D2	T360	G1	G2
C472	B1	G4	R245	F1	D1			
C474	F4	G4	R254*	H1	E2	TP312	B2	
C510	A1	B5	R270	G2	G1			
C520	D4	B5	R312	A3	A3	U410A	B3	A4
C530	F4	C5				U410B	B5	A4
C535	E5	C5	R314	A3	A3	U410D	B4	A4
C541	F6	D5	R316	B4	A3	U430A	C5	C4
C545	E5	D5	R318		A3	U430B	B7	C4
			R325	B3	B3	U430C	B2	C4
CR010	B3	A0	R327	H7	B3	U430D	E6	C4
CR011	A3	A0	R340	H1	D3	U430E	E4	C4
CR020	B2	B0	R342*	H2	E3	U430F	D4	C4
CR021	A2	B0	R350*	H2	E3	U530A	G6	C5
CR150	H2	E1	R360	H3	F3	U530C	C4	C5
CR160	H2	F1	R370	F3	G3	U530D	C6	C5
CR320	H8	B3	R372	F2	G3	U550	F5	E5
CR330	B5	C3	R373*	G1	G1	U560A	E1	F5
CR331	B5		R410	B5	A4	U560C	E2	F5
CR342	H1	D2	R412	B3	A4	U560D	F2	F5
CR360	H3	F3	R414	B4	A4	U580	A2	F5
CR374	G2	G3	R416	B4	A4	U570A	F2	G5
CR375	G2	G3	R421	H7	B3	U570B	E1	G5
CR470	G2	G4	R422	G6	B4	U572A	F2	G4
CR472	G4	G4	R423	B2	B3	U572B	F3	G4
CR520	C4	B4	R424	H6	B4			
CR540	F5	D5	R425	B7	C3	VR430	F6	C4
			R428	C4	C4			
DS130	E1	D1	R432	F6	C4			

*See Parts List for serial number ranges.


A B C D E F G H I J K L
1 2 3 4 5 6 7 8
A84
A82
A86
T512AD
2365-62
REV JULY 1986
INVERTER RECTIFIER
(SN B100841 & UP)

RECTIFIER A82
(SN B100940 & below)

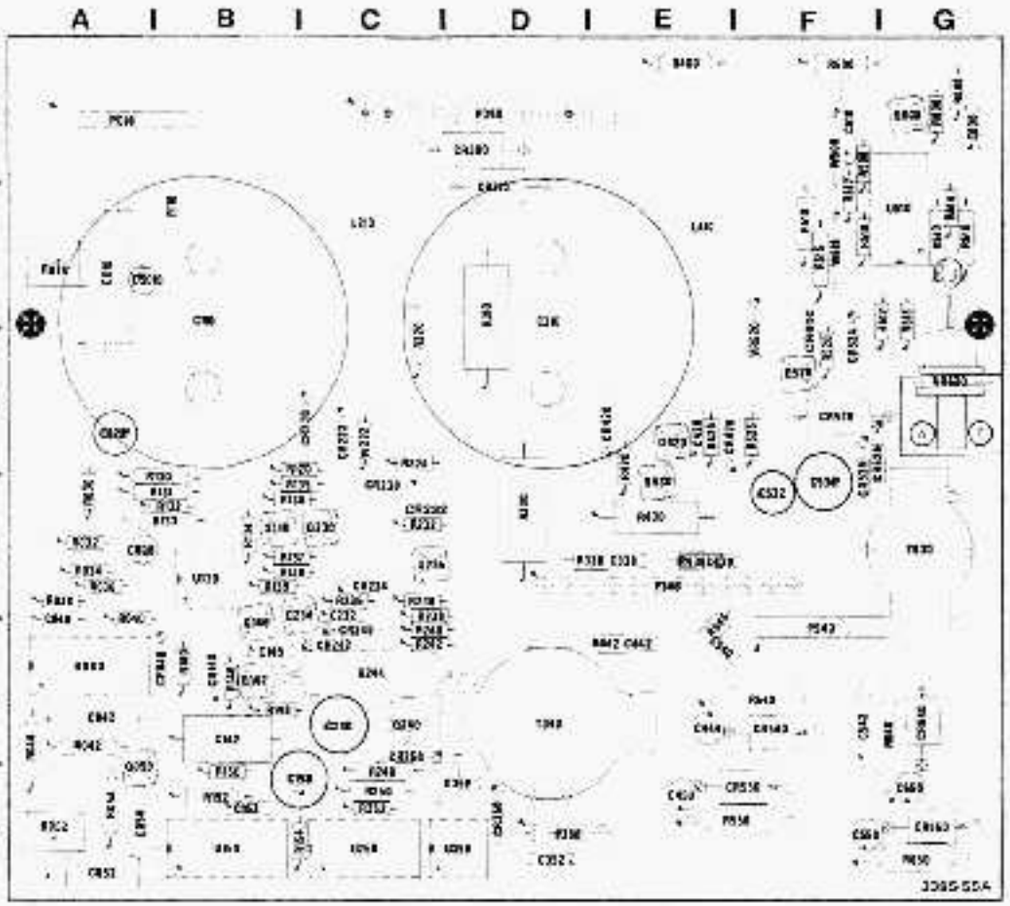
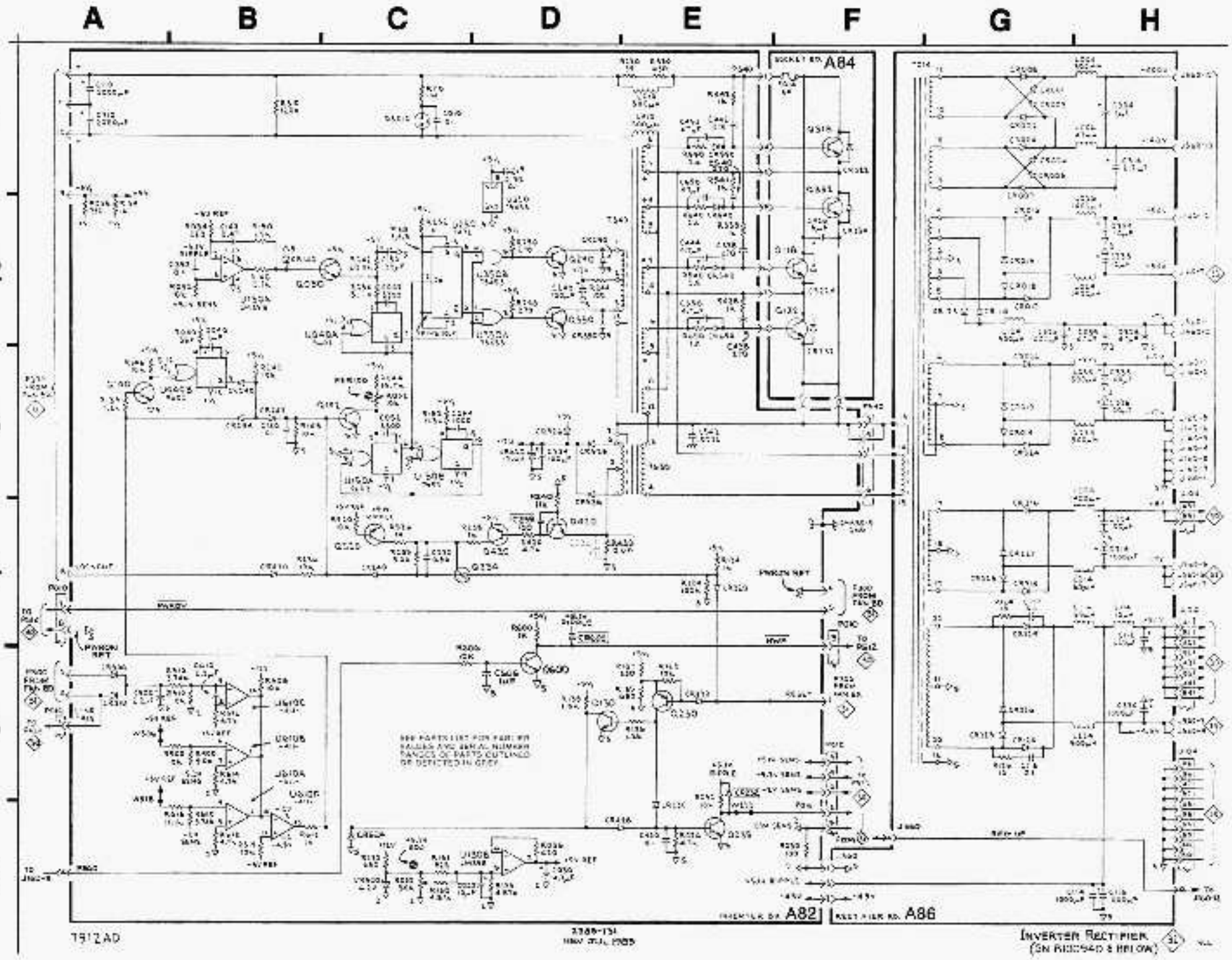


Fig. 7-35B. The inverter circuit board assembly A82 (SN B100940 & below).

P/O A82 ASSY (SN B100940 & BELOW) — INVERTER RECTIFIER 32

Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location
C010	C1	A1	P010	F5	A1	R248	C2	C4
C020	B6	A2	P360	F5	D6	R250	C2	C5
C030	D6	A3	P340	E1	D3	R252	C2	C5
C040	B3	A4	P340	F3	D3	R300	A1	C0
C042	C2	A4	P360	F6	D5	R310	B1	D1
C052	C3	A5	P360	A6	D6	R330	E1	D3
C054	C3	A5	P640	F8	F4	R338	E2	D3
C110	A1	B1	Q050	C2	A5	R400	B5	E0
C140	B3	B4	Q130	D5	B3	R420	D4	E2
C142	B2	B4	Q140	A3	B4	R428	E6	E2
C150	C2	B5	Q142	C3	B4	R430	D4	E3
C152	D1	B5	Q230	E3	C3	R438	E2	E3
C240	D2	C4	Q234	C4	C3	R442 *	E1	E4
C310	A1	D1	Q235	E6	C3	R500	B5	F0
C338	E2	D3	Q240	D2	C4	R508	B5	F0
C352	B2	D5	Q350	D2	D5	R510	B5	F1
C420	E6	E2	Q420	D4	E2	R510	B5	F1
C438	E2	E3	Q430	D4	E3	R512	B5	F1
C442	E1	E4	Q520	C4	F2	R516	B5	F1
C444	E2	E4	Q600	D5	G0	R516	B5	F1
C452	E1	E5	R010	C6	A1	R518	B6	F1
C500	A5	F0	R030	F6	A3	R520	C6	F2
C532 *	D4	F3	R032	B2	A3	R526	C4	F2
C534	D3	F3	R034	B2	A3	R540	E2	F4
C540	E1	F3	R036	D6	A3	R541	E1	F4
C542	E3	F4	R038	A2	A3	R550	E1	F5
C550	E2	F5	R040	B3	A4			
C606	D5	G0	R042	C2	A4			
C610	B5	G1	R044	C3	A4	R600	D4	G0
C650	E2	G5	R052	C3	A5	R608	C5	G0
CR040	B3	A4	R054	C3	A5	R610	B6	G1
CR140	B2	B4	R110	C1	B1	R612	B6	G1
CR220	E4	C2	R120	E5	B2	R614	B5	G1
CR222	E5	C2	R130	C6	B3	R616	B6	G1
CR230	E6	C3	R131	C6	B3	R618	B6	G1
CR232	E5	C3	R132	C6	B3	R640	E2	G4
CR234	B3	C3	R133	D6	B3	R650	E2	G5
CR240	C4	C4	R134	E4	B3	T340	E2	D4
CR242	B3	C4	R135	B5	B3	T630	E3	G3
CR250	B2	C5	R136	B5	B3	U040A *	C2	A4
CR300	A5	D0	R137	B5	B3	U040B *	B3	A4
CR310	A5	D1	R138	D6	B3	U130A	B2	B3
CR350	D2	D5	R139	A3	B3	U130B	D6	B3
CR420	B4	E2	R140	B2	B4	U150A	C3	B6
CR428	E6	E2	R146	A3	B4	U150B	C3	B6
CR524	C6	F2	R148	B3	B4	U250	C2	C5
CR526	D3	F2	R150	B2	B5	U350A	D2	D5
CR528	D3	F2	R152	C3	B5	U350B	D3	D5
CR536	D3	F3	R154	A3	B6	U610A *	B6	G1
CR640	E2	F4	R220	E1	C2	U610B *	B5	G1
CR650	E1	F5	R224	E4	C2	U610C *	B5	G1
CR800	D4	F2	R232	C4	C3	U610D *	B6	G1
CR640	E2	G4	R233	E6	C3	VR520	C6	F2
CR650	E2	G5	R235	C4	C3	VR620	D3	G2
DS010	C1	A1	R236	B4	C3	W222	E6	C2
L210	E1	C1	R238	D4	C3	W506	A5	F0
L410	E1	E1	R240	D4	C4	W606	A6	F0
P010	A5	A1	R242	B3	C4	W518	A5	F1
P010	A4	A0	R244	D2	C4	W518	A5	F1
P010	F4	A0						

*See Parts List for serial number ranges.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SOCKET BD. A84
INVERTER BD. A82
REC FILTER BD. A86
7512AD
INVERTER RECTIFIER
(SN B100940 & BELOW)

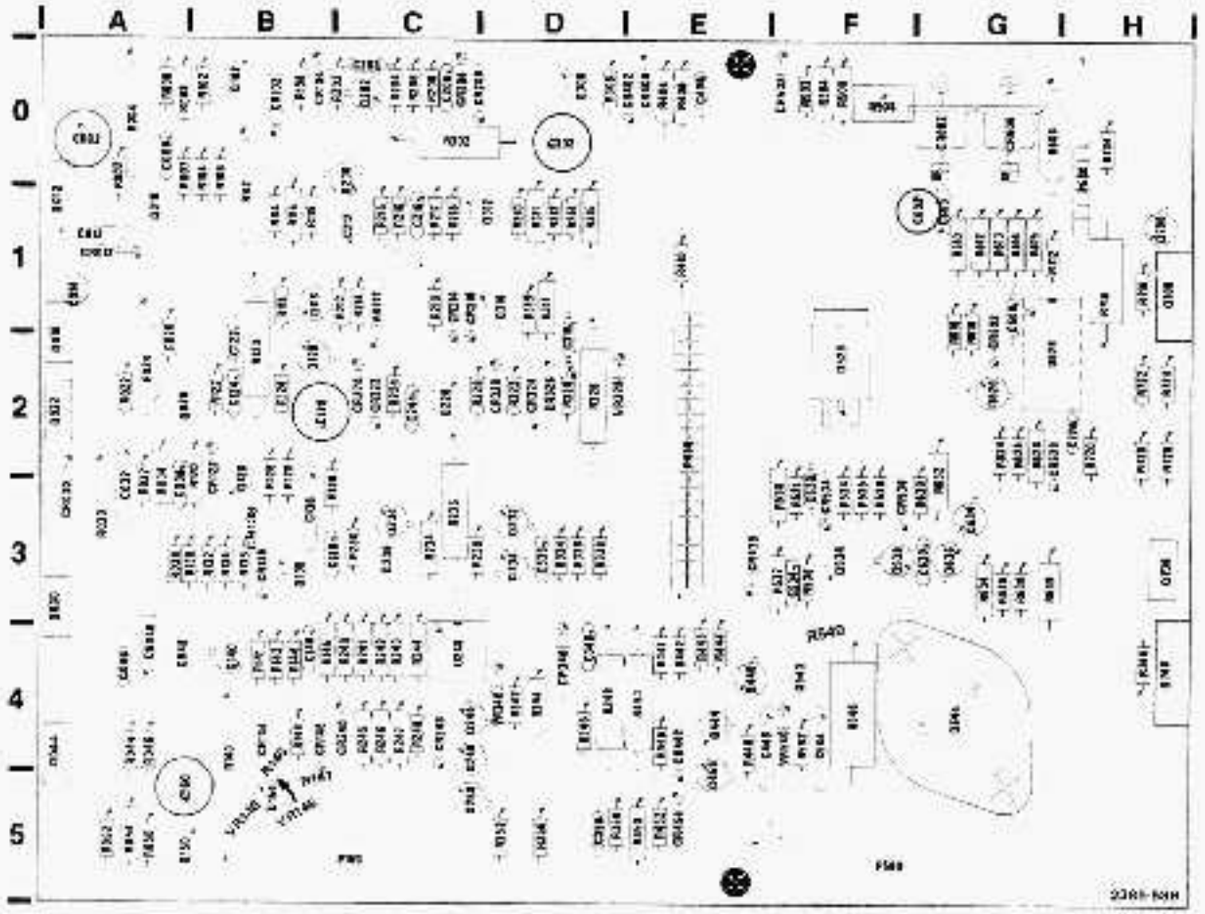
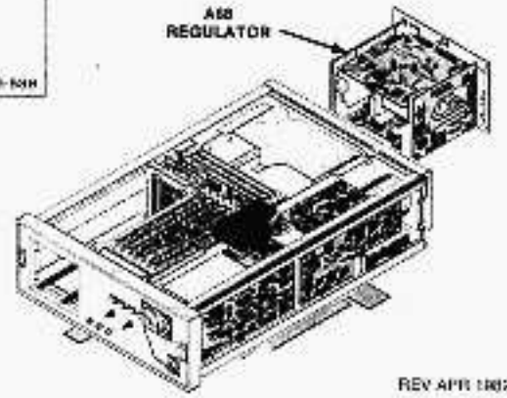


Fig. 7-26. The Regulator circuit board, assembly A68.

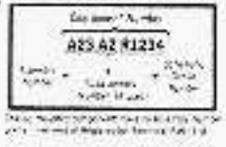


*See Parts List for serial number ranges.

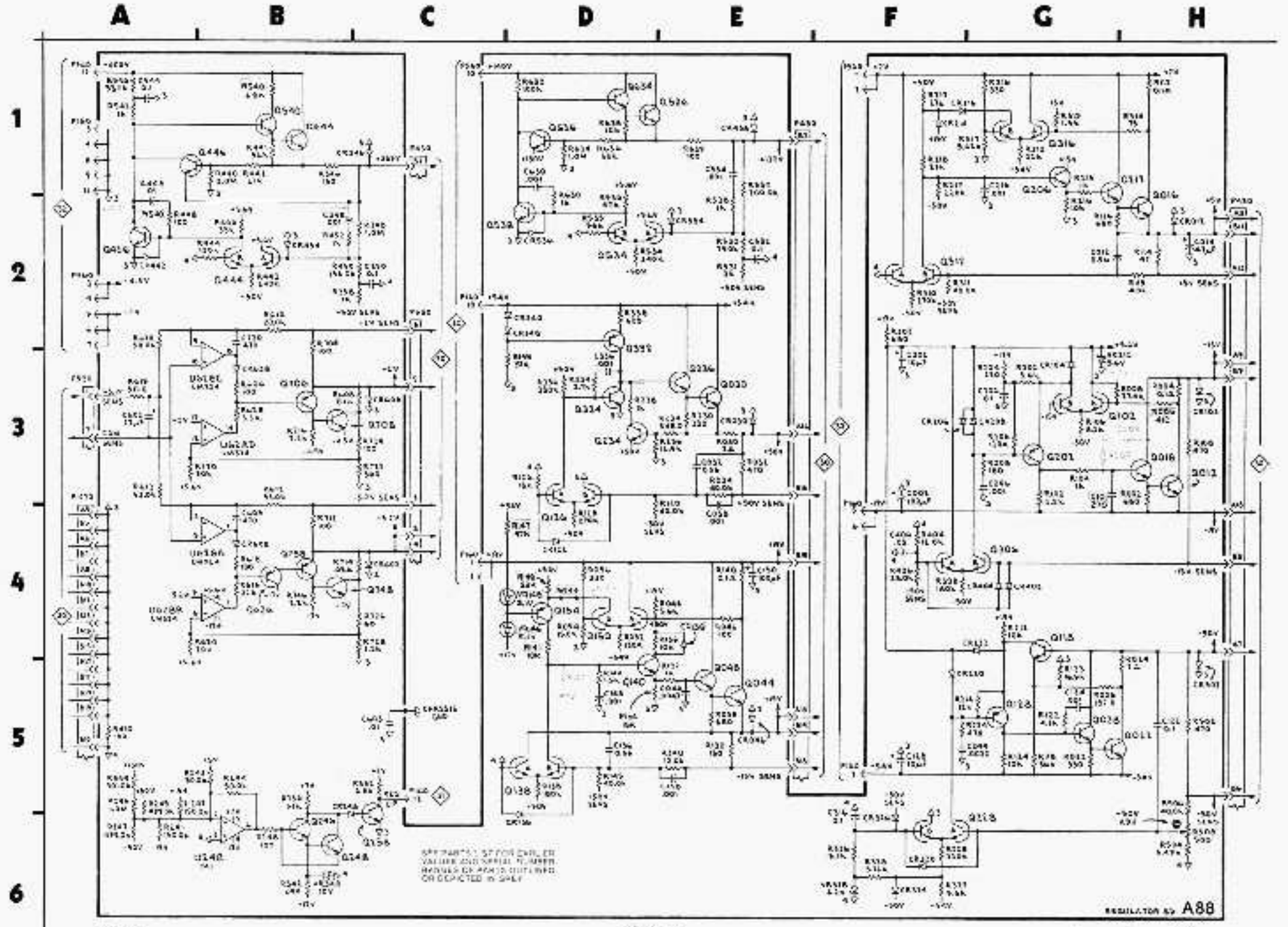
P/O A68 ASSY

Circuit Number	Schematic Location	Board Location	Circuit Number
C002	F3	A0	P160
C008*	H3	A0	P160
C012	G2	A1	P160
C014	H2	A1	P430
C032	E3	A3	P430
C038	E4	A3	P430
C046	E5	A4	P430
C122	H5	B2	P530
C124	G5	B2	P530
C128	F5	B2	P560
C136	D5	B3	P560
C138	E5	B3	P560
C148	D5	B4	P560
C150	E4	A5	P560
C202	G3	C0	
C206	G3	C0	Q012
C216	G1	C1	Q016
C244	G5	C2	H018
C302	F3	D0	Q022
C316	F6	D2	Q028
C326	D3	D3	Q030
C346	B2	D4	Q044
C348	B2	D4	Q046
C350	C2	D5	Q102
C406	F4	E0	Q118
C446	A2	F4	Q126
C532	E2	F8	Q128
C534	E1	F8	Q136
C544	A1	F4	Q140
C602	A3	G0	Q150
C603	C3	G0	Q154
C5C1	B4	G1	Q202
C630	D1	G3	Q206
C720	B2	H2	Q212
			Q226
CR012	H2	A1	Q234
CR030	E3	A3	Q236
CR046	E5	A4	Q246
CR102	H3	B0	Q248
CR104	G3	B0	Q258
CR122	D4	B2	Q306
CR136	D5	B3	Q312
CR138*	E4	B3	Q316
CR144	D4	B4	Q332
CR148	D2	B4	Q334
CR206	F3	C0	Q444
CR208	G3	C0	Q446
CR214	F1	C1	Q456
CR216	F1	C1	Q526
CR220	F5	C2	Q534
CR222	G4	C2	Q538
CR240	D2	C4	Q540
CR248	B6	C4	Q626
CR320	F6	D2	Q634
CR324	F6	D2	Q636
CR326	F5	D2	Q644
CR346	C1	D4	Q706
CR402	G4	E0	Q708
CR404	G4	E0	Q738
CR438	E1	E3	Q748
CR442	A2	E4	
CR454	B2	E5	R006
CR456	B2	E5	R002
CR502	H5	F0	R004
CR534	E2	F3	R007*
CR538	D2	F3	R008
CR602	C4	G0	R022
CR606	C3	G0	R024
CR608	B4	G1	R026
CR628	B3	G2	R030
			R032
P160	A1	B5	R034
P160	C2	B5	

COMPONENT NUMBER EXAMPLE



Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location
C4	B5	R038	E5	A3	R330	D3	D3
F4	B5	R040	E4	A4	R342	B6	D4
F5	B5	R046	E4	A4	R344	A5	D4
A4	E2	R052	D4	A5	R346	B1	D4
C1	E2	R054	D4	A5	R348	C2	D4
E1	E2	R102	G3	B0	R352	C5	D5
H2	E2	R104	G3	B0	R356	B5	D5
A3	F1	R106	G3	B0	R358	C2	D5
C2	F1	R108	H3	B0	R404	F4	E0
A1	F5	R112	H1	B1	R406	F4	E0
A2	F5	R114	H2	B1	R410	A5	E1
C1	F6	R115	H2	B1	R430	B1	E4
F1	F6	R118	G2	B1	R431	B1	E4
F6	D2	R118	G5	B1	R432	B1	E4
		R120	F4	B2	R443	B2	E4
H3	A1	R122	G6	B2	R444	B2	E4
H2	A1	R123	G5	B2	R445	B2	E4
H3	A1	R124	G5	B2	R446	A2	E4
H5	A2	R126	D3	B2	R450	C2	E5
G5	A2	R128	D4	B2	R452	B2	E5
E1	A3	R130	E5	B3	R502	H5	F0
E1	A4	R132	E5	B3	R504	H5	F0
E5	A4	R134	D5	B3	R506	H5	F0
G3	B3	R136	E4	B3	R508	H6	F0
G4	B1	R138	D6	B3	R530	E2	F3
D3	B2	R140	D4	B4	R531	E2	F3
G5	B2	R141	D4	B4	R534	D2	F3
D5	B3	R142*	D5	B4	R535	D2	F3
D5	B4	R144	D5	B4	R536	D2	F3
D4	B5	R145	D5	B4	R537	E1	F3
D4	B5	R146	D4	B4	R538	E2	F3
G3	C0	R147*	D6	B5	R540	B1	F4
G1	C0	R148	D4	B4	R542	A1	F4
H1	C1	R202	G3	C0	R546	A1	F4
F6	C2	R204	G3	C0	R606	C2	G0
D2	C3	R206	G3	C0	R610	B2	G1
E3	C3	R208	G3	C0	R612	B4	G1
B6	C4	R212	G4	C1	R613	A3	G1
B6	C4	R214	G5	C1	R614	B2	G1
C6	C5	R215	G1	C1	R615	A3	G1
G4	D0	R216	G2	C1	R616	B4	G1
F2	D1	R217	F1	C1	R618	B4	G1
G1	D1	R218	F1	C1	R624	B4	G2
G2	D0	R219	F1	C1	R626	B3	G2
G3	D3	R224	G5	C1	R628	B3	G2
B2	E4	R228	F6	C2	R630	D2	G3
B1	E4	R230	E3	C3	R632	D1	G3
A2	E4	R234	E3	C3	R634	D1	G3
D1	F2	R236	F3	C6	R636	D1	G3
D2	F3	R238	D3	C3	R638	D1	G3
B1	F4	R240	E6	C4	R639	E1	G3
B4	G2	R241	A6	C4	R704	B2	H0
D1	G3	R242	A5	C4	R712	B4	H1
D1	G3	R243	B5	C4	R714	C4	H1
B5	G4	R244	B5	C4	R716	B3	H1
B3	H1	R245	A5	C4	R720	B3	H2
B3	H1	R246	A5	C4	R722	C3	H2
B4	H3	R247	A6	C4	R724	C3	H2
B4	H4	R248	B6	C4	R725	C4	H2
		R302	F2	D0	R726	B4	H4
H3	A0	R308	H4	D0			
H3	A0	R310	F2	D1	U240	B6	C4
H3	A0	R311	F2	D1	U626A	B4	G2
H3	A0	R312	G1	D1	U626B	B4	G2
H3	A0	R314	H1	D1	U626C	B3	G2
G5	A2	R315	G1	D1	U626D	B3	G2
H5	A2	R316	G1	D1			
G5	A2	R317	G1	D1	VR145	D4	B5
E3	A3	R322	F6	D2	VR146	D4	B5
E3	A3	R326	F5	D2			
E3	A3	R328	F5	D2	VR212	C3	C1
E3	A3	R334	D3	D3	VR336	F6	D2
		R336	D3	D3	VR340	B6	D4
					VR640	A2	F4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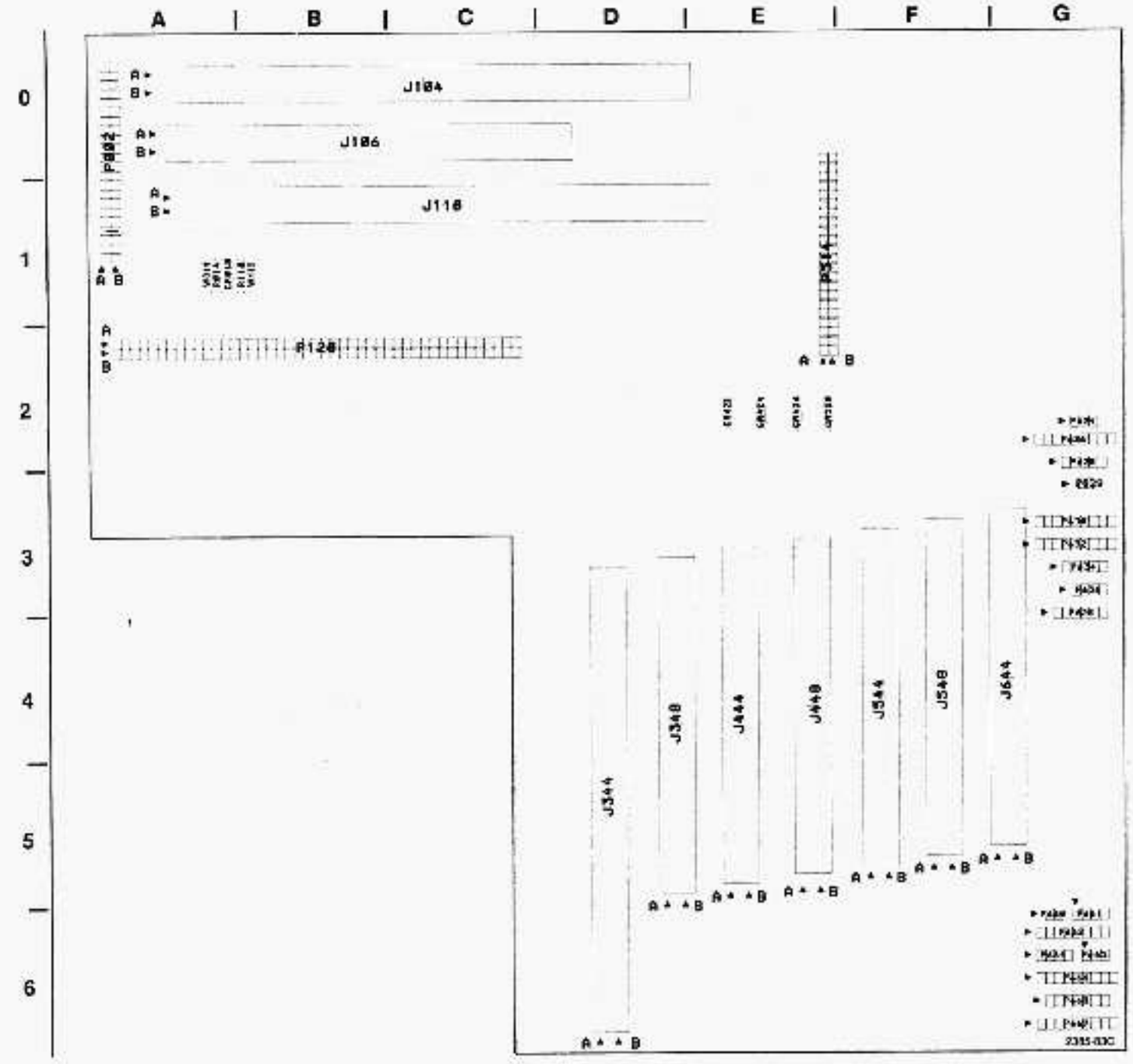
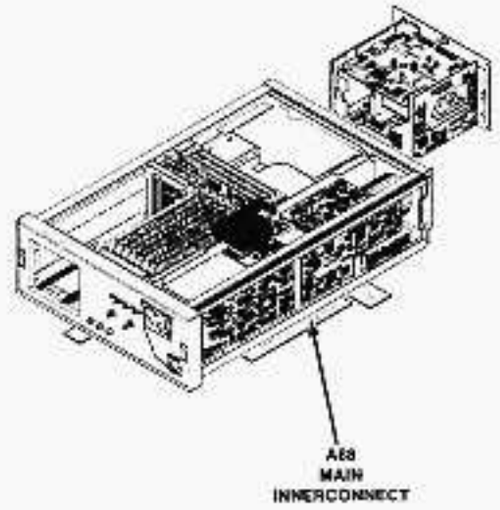
REGULATOR A88
1912AD
Regulators 33





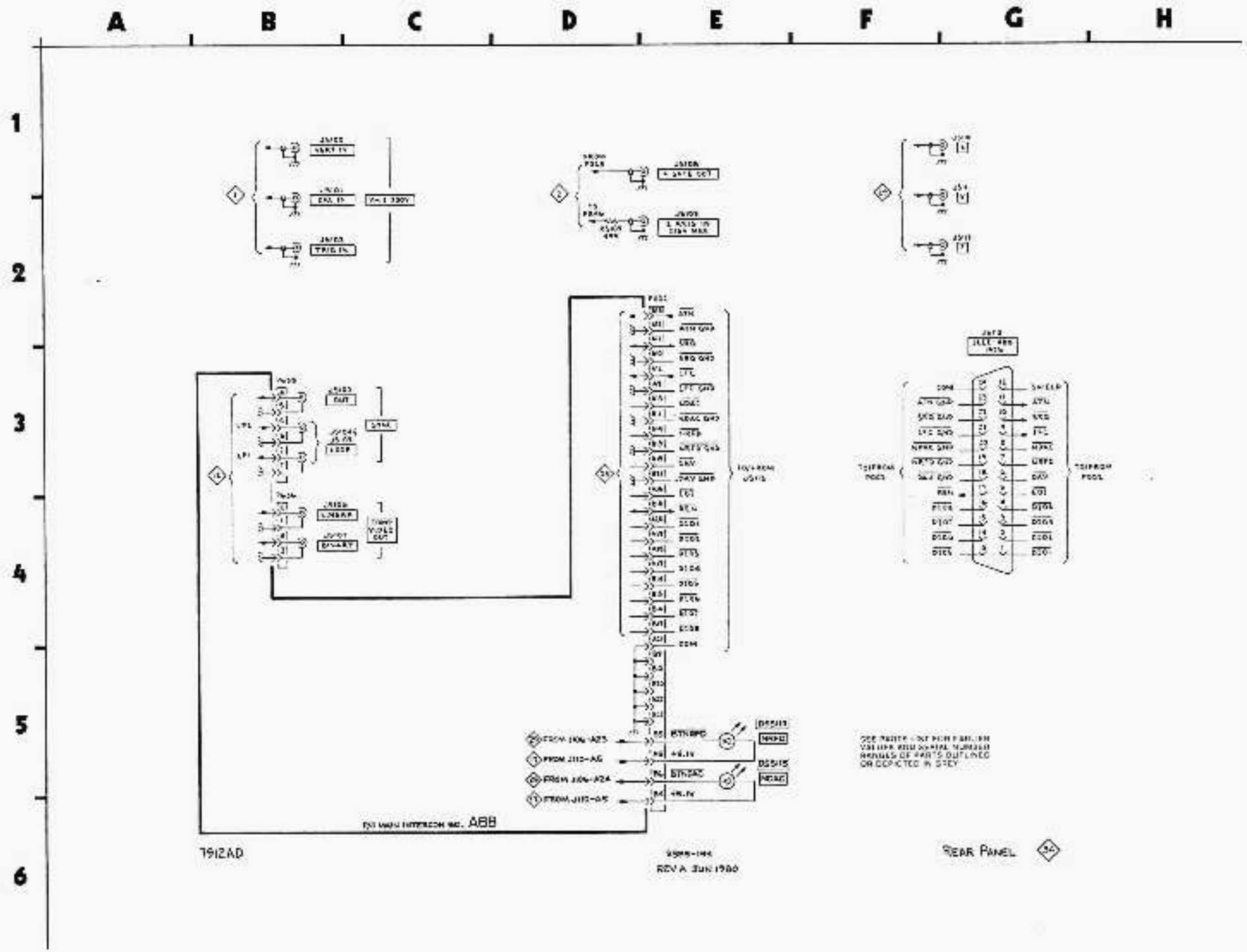
COMPONENT NUMBER EXAMPLE

Fig. 7-37. The Main Interconnect circuit board, assembly A68.

P/O A63 ASSY — REAR PANEL (34)

Circuit Number	Schematic Location	Board Location	Circuit Number	Schematic Location	Board Location
J5100	B1	CHASSIS	J5108	E1	CHASSIS
J5101	B1	CHASSIS	J5109	E2	CHASSIS
J5101	B2	CHASSIS	J5109	E2	CHASSIS
J5102	B2	CHASSIS	J5110	G1	CHASSIS
J5102	B3	CHASSIS	J5110	G1	CHASSIS
J5103	B3	CHASSIS	J5111	G1	CHASSIS
J5103	B3	CHASSIS	J5111	G1	CHASSIS
J5104	B3	CHASSIS	J5112	G2	CHASSIS
J5104	B3	CHASSIS	J5112	G2	CHASSIS
J5105	B3	CHASSIS	J5113	G2	CHASSIS
J5105	B3	CHASSIS	J5113	G3	CHASSIS
J5106	B4	CHASSIS			
J5106	B4	CHASSIS			
J5107	B4	CHASSIS	P602	E2	A0
J5107	B4	CHASSIS	P635	B4	G3
J5108	E1	CHASSIS	P638	B3	G3

NOTE: Fig.'s No. 7-38 through 7-42 have been purposely deleted.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REAR PANEL
7912AD
REV A JUN 1980
REAR PANEL

SIGNAL	PINOUT					
ALT OVERRIDE	P120 A1 (2)*					
ALT OVERRIDE	P120 A2 (2)*					
ANALOG DATA	J110 A53 (17)	P120 B37 (3)	P120 B38 (3)†			
ARM SS	P120 A8 (2)	J448 A25 (13)*				
ATN	P002 B13 (34)†	J108 A16 (28)				
AUX Y AXIS	P120 A11 (2)†	P626 8 (5)				
B2MGEN	J105 A24 (29)	J344 A38 (20)†	J341 B38 (20)†	J348 A16 (22)		
BADR0	J106 B35 (27)	J110 B46 (15)†	J344 B25 (19)	J448 A5 (13)	P514 A19 (16)	
BADR1	J106 B34 (27)	J110 B45 (15)†	J344 A26 (19)	J448 A7 (13)	P514 A18 (16)	
BADR2	J106 B33 (27)	J110 B44 (15)†	J341 B27 (19)	J448 A8 (13)	P514 A17 (16)	
BADR3	J106 B32 (27)	J110 B43 (15)†	J344 A27 (19)	J448 A9 (13)	P514 A16 (16)	
BADR4	J106 B31 (27)	J110 B42 (15)†	J344 B28 (19)	J448 A10 (13)	P514 A15 (16)	
BADR5	J106 B30 (27)	J110 B41 (15)†	J344 A29 (19)	J448 A11 (13)	P514 A14 (16)	
BADR6	J106 B29 (27)	J110 B40 (15)†	J344 B29 (19)	P514 A13 (16)		
BADR7	J106 B28 (27)	J110 B39 (15)†	J344 A29 (19)	P514 A12 (16)		
BADR8	J106 B27 (27)	J110 B38 (15)†	J344 B30 (19)	P514 A9 (16)		
BADR9	J106 B26 (27)	J110 B37 (15)†	J344 A30 (19)	P514 A6 (16)		
BADR10	J106 B25 (27)	J110 B36 (15)†	J344 B31 (19)	P514 A7 (16)		
BADR11	J106 B24 (27)	J110 B35 (15)†	J344 A31 (19)	P514 A5 (16)		
BD0	J106 B12 (27)	J110 B22 (15)	P120 A24 (3)	J344 B34 (19)	J448 A12 (13)	P514 B6 (16)
BD1	J106 B13 (27)	J110 B23 (15)	J344 A34 (19)	J448 A13 (13)	P514 B8 (16)	
BD2	J106 B14 (27)	J110 B24 (15)	J344 B35 (19)	J448 A14 (13)	P514 B7 (16)	
BD3	J106 B15 (27)	J110 B25 (15)	J344 A35 (19)	J448 A15 (13)	P514 B6 (16)	
BD4	J106 B16 (27)	J110 B26 (15)	J344 B36 (19)	J448 A16 (13)	P514 B5 (16)	
BD5	J106 B17 (27)	J110 B27 (15)	J344 A36 (19)	J448 A17 (13)	P514 B4 (16)	
BD6	J106 B18 (27)	J110 B28 (15)	J344 B37 (19)	J448 A18 (13)	P514 B3 (16)	
BD7	J106 B19 (27)	J110 B29 (15)	J344 A37 (19)	J448 A19 (13)	P514 B2 (16)	
BEAM FINDER 1	P626 4 (5)	P665 1 (1)†				
BEAM FINDER 2	P626 6 (5)	P665 2 (1)†				
BEAM FINDER 3	P120 A23 (2)	P665 3 (1)†				
BTNDAC	J105 A24 (29)†	P002 B6 (34)				
BTNIPD	J105 A23 (29)†	P002 B5 (34)				
CDB	J444 B19 (25)†	J644 A19 (11)*				
CK2	J105 B9 (27)	J110 A19 (15)†	P514 B1 (16)	P514 A11 (16)		
CK1	J110 B16 (15)†*					
CLAMP 1	J644 B8 (11)	P661 2 (11)†				
CLAMP 2	J644 B9 (11)†	P661 4 (11)				
CLKMAR	J344 B18 (21)†	J348 B10 (22)				
CLKMDR	J344 B13 (21)†	J348 B5 (22)				
COMP LINEAR VIDEO	P535 2 (34)	J644 B17 (12)*				
COMP BINARY VIDEO	P535 4 (34)	J644 B16 (12)*				
CP00	J344 A23 (19)	J348 A15 (23)*				
CP01	J344 A22 (19)	J348 A14 (23)†				
CP02	J344 A21 (19)	J348 A13 (23)†				
CP03	J344 A19 (19)	J348 A12 (23)*				
CP04	J344 A18 (19)	J348 A11 (23)†				
CP05	J344 A17 (19)	J348 A10 (23)*				
CP06	J344 A16 (19)	J348 A9 (23)*				
CP07	J344 A15 (19)	J348 A8 (23)*				
CP08	J344 B20 (19)	J348 B12 (23)†				
CP09	J344 B21 (19)	J348 B13 (23)†				
CP010	J344 B22 (19)	J348 B14 (23)†				
CP011	J344 B23 (23)	J348 B15 (23)†				
CP012	J344 B18 (19)	J348 B11 (23)†				
CP013	J344 B14 (19)	J348 B6 (23)†				
CP014	J344 B15 (19)	J348 B7 (23)†				
CP015	J344 B16 (19)	J348 B8 (23)†				
CRB	J548 A3 (3)†	P662 8 (10)				
CRB	J548 B3 (3)†	J644 A7 (11)				
DAC/ADV	J105 A25 (29)	J344 B9 (20)†	J344 B44 (20)*	J444 B6 (25)		
DAV	P002 A15 (34)	J105 A6 (29)				
DECREASE INT	J448 A20 (13)†	J644 B26 (12)*	P665 7 (1)			
DFI	J110 A20 (16)	J448 B22 (13)†				
DIAG	J344 A11 (19)*					
DIG	J344 B10 (20)†	J444 B7 (25)				

MAIN INTERCONNECT (AEB) SIGNALS

MAIN INTERCONNECT (A68) SIGNALS

SIGNAL	PINOUT		
DIG LT	J448 A2 (13)†	P669 4 (1)	
DIG PB	J448 B2 (13)	P669 7 (1)†	
DIO1	P002 A20 (34)	J106 A13 (28)	
DIO2	P002 A19 (34)	J106 A12 (28)	
DIO3	P002 A18 (34)	J106 A11 (28)	
DIO4	P002 A17 (34)	J106 A10 (28)	
DIO5	P002 B14 (34)	J106 A17 (34)	
DIO6	P002 B15 (34)	J106 A18 (34)	
DIO7	P002 B16 (34)	J106 A19 (34)	
DIO8	P002 B17 (34)	J106 A20 (34)	
EOI	P002 A16 (34)	J106 A9 (28)	
FOCUS IG	J448 B9 (13)†	P634 4 (7)	
FOCUS POT	J448 B8 (13)	P669 6 (1)†	
FPI	J110 A12 (15)	J448 A21 (13)†	
FPSEL	J110 B21 (15)†	J448 B17 (14)	
GND RET	J110 A48 (17)		
GND SENS	J104 A3 (30)	P120 B9 (3)	
GRAT INT	J448 B11 (13)†	J544 A18 (4)	
GRAT INT POT	J448 B10 (13)	P669 7 (1)†	
GRAT ONLY	J448 A29 (13)†	J544 A27 (4)	
HALT	J110 A46 (15)*		
HD0	J106 A26 (28)	J344 B43 (15)†	
HD1	J106 A27 (28)	J344 A43 (15)†	
HD2	J106 A28 (28)	J344 B41 (15)†	
HD3	J106 A29 (28)	J344 A41 (15)†	
HD4	J106 A30 (28)	J344 B42 (15)†	
HD5	J106 A31 (28)	J344 A42 (15)†	
HD6	J106 A32 (28)	J344 B43 (15)†	
HD7	J106 A33 (28)	J344 A43 (15)†	
HOLDOFF	P120 A4 (2)*		
+ HOR GRAT	P120 B41 (6)	J544 A6 (4)†	
− HOR GRAT	P120 B42 (6)	J544 A2 (4)†	
HWF	J104 B6 (30)†	J110 B14 (15)	
IFC	P002 A12 (34)†	J106 A5 (28)	
IFI	J110 A15 (16)*		
IHCE	J344 A14 (21)†	J348 A7 (22)	
ILWE	J344 A13 (21)†	J348 A6 (22)	
IOI	J106 B3 (27)†	J110 A18 (16)	
IOSEL	J106 B10 (27)†	J110 B20 (15)	
LINE TRIGGER	J104 B1 (30)†	P120 B25 (2)	
LOCAL LT	J448 A4 (13)†	P669 2 (1)	
LOCAL PB	J448 B4 (13)	P669 9 (1)†	
LOCAL/REMOTE	J448 B23 (13)†*		
LOCKOUT	J448 A27 (13)†*		
LOCKOUT LT	J448 A5 (13)†	P669 1 (1)	
LSEND	J106 A36 (28)	J348 B39 (21)	
MAIN INT	P120 A40 (2)	J448 B7 (13)†	
MAIN INT POT	J448 B6 (13)†	P669 5 (1)	
MDHON	J344 B17 (21)†	J348 B9 (22)	
MF CHAN SWITCH	P120 B1 (2)	J544 A11 (4)†	
MPUCLK	J110 B13 (15)	J444 B13 (25)†	
NDAC	P002 A13 (34)	J106 A6 (28)	
NRFD	P002 A14 (34)	J106 A7 (28)	
NSG	J344 A10 (19)†	J444 A7 (25)	
OGL	J548 B15 (8)†	J544 A15 (12)	
PMCI	J110 A16 (15)	J344 A24 (20)†	
PMCSEL	J110 B18 (15)†	J344 B24 (19)	

SIGNAL	PINOUT			
PON	J104 B25 (30)†	J110 B13 (15)	J344 A44 (21)	J448 A24 (13)
PREAMP VIDEO	J644 B5 (11)	P660 2 (10)*		
PROTECT ENABLE	P634 3 (7)	J644 A25 (12)		
PWRDN	J104 A33 (30)†	P666 8 (1)		
PWRDN RET	J104 A34 (30)	P666 9 (1)†		
R-REN	J106 A14 (28)†	J110 A21 (16)		
RAMSEL	J110 A2 (15)†	P514 B15 (16)		
READOUT OFF	J448 B12 (13)	P669 2 (1)†		
READOUT ON	J448 B5 (13)	P669 1 (1)†		
REM LT	J448 A3 (13)†	P669 3 (1)		
REM PB	J448 B3 (13)	P669 8 (1)†		
REN	P002 B16 (34)†	J106 A21 (28)		
ROMSELA	J110 B11 (15)*			
ROMSELE	J110 B9 (15)†	P514 B17 (16)		
ROMSELF	J110 A3 (15)†	P514 B16 (16)		
RORST	J110 A24 (17)†	P120 A27 (3)		
ROT	J110 A25 (17)†	P120 A28 (3)		
RST	J106 A21 (27)†	J110 A14 (15)	P514 B18 (16)	
RO VIDEO	J448 B18 (14)†	J644 A18 (12)		
SGE	J448 B29 (13)	J544 A29 (4)†		
SHIFT	J110 A23 (17)†	P120 A26 (3)		
SRQ	P002 A11 (34)	J106 A4 (28)†		
SS ARMED	P120 A7 (2)†	J448 A25 (13)		
SS MODE	P120 A10 (2)†	J448 B24 (13)		
STROBE	J110 B30 (15)†	J344 B25 (19)	J448 B16 (13)	P614 B11 (16)
SVID	J444 B8 (25)	J644 A1 (11)†		
SWP GATE	P120 B23 (2)†	J444 B28 (25)	J448 A28 (13)	J544 A25 (4)
SWP LOCKOUT	P120 A6 (2)	J544 A16 (4)†		
SYNC OUT	P638 6 (34)	J644 B23 (12)†		
SYNC LP1	P638 2 (34)	J644 A24 (12)		
SYNC LP2	P638 6 (34)	J644 B25 (12)		
SLOSWP	J344 A17	J344 A5		
TD0	J348 A1 (23)†	J444 A1 (26)		
TD1	J348 B1 (23)†	J444 B1 (26)		
TD2	J348 A2 (23)†	J444 A2 (26)		
TD3	J348 B2 (23)†	J444 B2 (26)		
TD4	J348 A3 (23)†	J444 A3 (26)		
TD5	J348 B3 (23)†	J444 B3 (26)		
TD6	J348 A4 (23)†	J444 A4 (26)		
TD7	J348 B4 (23)†	J444 B4 (26)		
TD8	J348 A5 (23)†	J444 A5 (26)		
TIMESLOT	J110 A22 (17)†	P120 A25 (3)		
TLTRSEL	J110 B17 (15)†	J448 B20 (13)	P514 B19 (16)	
TV/DIG	J448 B25 (13)†	J544 B26 (4)	J548 B16 (8)	J644 A25 (12)
TV LT	J448 A1 (13)†	P669 5 (1)		
TV PB	J448 B1 (13)	P669 6 (1)†		
+VERT GRAT	J544 B8 (4)†	P664 1 (5)		
−VERT GRAT	J544 B6 (4)†	P664 3 (5)		
VMA	J110 B19 (15)†	P514 A1 (16)		
WRITE	J106 B36 (27)	J110 B47 (15)†	J344 A25 (19)	P514 B12 (16)
+X	J548 A5 (9)†	P662 5 (9)		
−X	J548 A4 (8)†	P662 4 (9)		
XDR	J344 A9 (20)	J444 A6 (25)†		
XRQ	J444 B21 (28)†	J544 A21 (12)		
X REF	J448 B14 (14)	J548 B13 (8)	J644 A14 (12)†	
X RAMP	J548 B21 (8)†	J644 A3 (11)		
X START	J548 B12 (8)	J544 A12 (12)†		
+Y	J548 A2 (9)†	P662 1 (9)		
−Y	J548 A1 (9)†	P662 3 (9)		
Y RAMP	J548 B20 (8)†	J644 A4 (11)		
Y REF	J448 B13 (14)	J644 A13 (12)†		

SIGNAL	PINOUT		
Y START	J548 B11 (8)	J644 A11 (12)†	
YDR	J344 B5 (20)	J444 B5 (25)†	
YRQ	J444 B20 (25)†	J644 A20 (12)	
YSENT	J106 A35 (28)†	J344 A39 (21)	
Z-AXIS INHIBIT	P120 B2 (2)	J544 A13 (4)†	J444 B17
ZG INT	J544 B23 (4)†	P634 1 (7)	
7KATN	J110 A37 (17)†	P120 B29 (3)	
7KDAV	J110 A41 (17)†	P120 A35 (3)	
7KDIO1	J110 A34 (17)	P120 A32 (3)	
7KDIO2	J110 A32 (17)	P120 B27 (3)	
7KDIO3	J110 A33 (17)	P120 A31 (3)	
7KDIO4	J110 A31 (17)	P120 B26 (3)	
7KDIO5	J110 A44 (17)	P120 A38 (3)	
7KDIO6	J110 A45 (17)	P120 A39 (3)	
7KDIO7	J110 A42 (17)	P120 A36 (3)	
7KDIO8	J110 A43 (17)	P120 A37 (3)	
7KEOI	J110 A26 (17)†	P120 A29 (3)	
7KIFC	J110 A38 (17)†	P120 B30 (3)	
7KLVADR	J110 A30 (17)†	P120 B35 (3)	
7KNDAC	J110 A35 (17)	P120 A33 (3)†	
7KNRFD	J110 A40 (17)	P120 A34 (3)†	
7KREN	J110 A36 (17)†	P120 B28 (3)	
7KRVADR	J110 A29 (17)†	P120 B36 (3)	
7KSND	J110 A28 (17)	P120 B31 (3)†	
7KSRQ	J110 A27 (17)	P120 A30 (3)†	
μMA0	J344 B2 (20)*		
μMA1	J344 A2 (20)*		
μMA2	J344 B1 (20)*		
μMA3	J344 A1 (20)*		
μMA4	J344 B4 (20)*		
μMA5	J344 A4 (20)*		
μMA6	J344 B3 (20)*		
μMA7	J344 A3 (20)*		
μMA8	J344 A7 (20)*		
μMA9	J344 B7 (20)*		
μMA10	J344 A8 (20)*		
5 MHz	J444 B15 (25)†	J544 A21 (4)	J644 A23 (12)
20 MHz	J344 A20 (21)	J444 A8 (25)†	
+5 V	J104 A10,B10,A11,B11 (30)†		P120 A15,B15 (3)
	J544 A32,B32 (4)		J548 A32,B32 (8)
	P632 4 (10)		J644 A32,B32 (11)
	P620 3 (10)		P630 4 (5)
	P628 2 (5)		P666 4 (1)
+5.1 V	J104 A17,B17 P002 A6 B6		J106 B4 (28)
	J110 A5,B5,A6,B6 (17)		J348 A32,B32 (22)
	P666 1 (1)		
−5.1 V	J104 A18,B18,A19,B19 (30)†		P120 A16,B16,A17,B17 (3)
−5.1 V	J104 A20,B20,A21,B21 (30)†		J344 A45,B45,A46,B46,A47,B47 (19)
	J448 A32,B32 (14)		
+5.1 V	J104 A22,B22,A23,B23 (30)†		J348 A33,B33,A34,B34 (22)
	J444 A34,B34 (25)		
+5.1 V_U	J104 A24,B24 (30)		J348 A32,B32 (22)

†Signal Source
*Unused Signal

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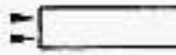
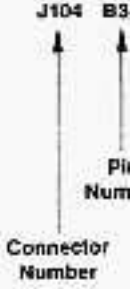
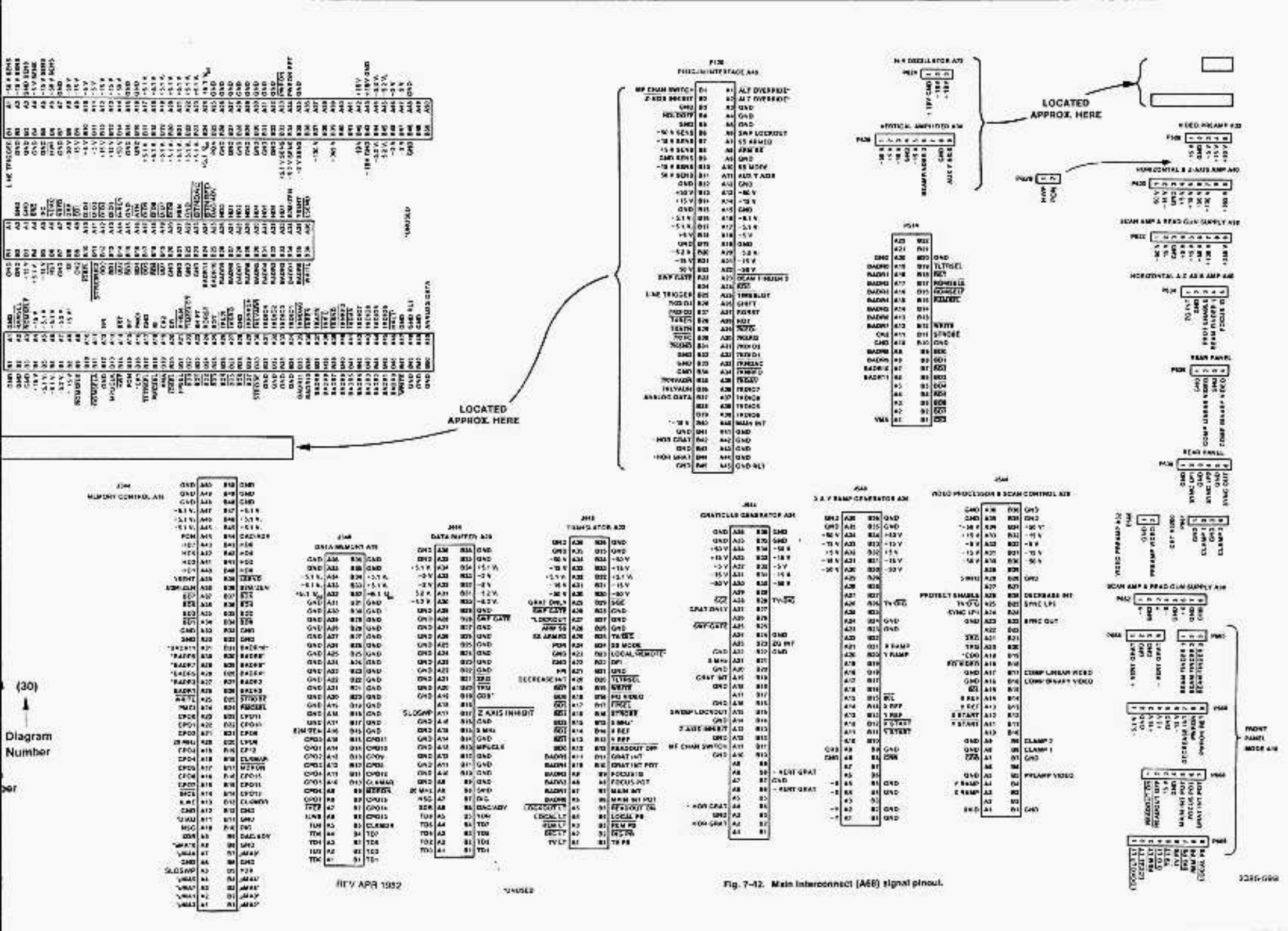
SIGNAL	PINOUT	
+15 V	J104 A12,B12,A13,B13 (30)† J110 A4,B4 (17) J448 A33,B33 (14) J548 A33,B33 (8) P628 5 (5) P628 4 (10) P666 3 (1)	J106 B3 (28) P120 A14,B14 (3) J544 A33,B33 (4) J644 A33,B33 (11) P632 5 (10) P630 5 (6)
−19 V	J104 A42 (30)†	P624 3 (7)
+50 V	J104 A14,B14 (30) J448 A34,B34 (14) J548 A34,B34 (8) P628 1 (5) P628 6 (10)	P120 A13,B13 (3) J544 A34,B34 (4) J644 A34,B34 (11)* P632 6 (10) P630 6 (6)
+130 V	J104 B37 (30)†	P632 7 (10) P630 7
+355 V	J104 B39 (30)† P632 9 (10)	P630 9 (6)
−2 V SHORT TO −2V SENS	J104 A46,B46,A47,B47 (30)†	J448 A32,B32,A33,B33 (28)
−5.2 V.	J104 A44,B44,B45 (30)† J444 A30,B30,A31,B31 (26)	J110 A7,B7 (17)
−5.2 V.	J104 A45 (30)	P120, A20,B20 (3)
−15 V.	P120 B40 (2)*	
−15 V	J104 A9,B9 (30) J110 A8,B8 (17)* J448 A31,B31 (14) J548 A31,B31 (8) P628 3 (5) P628 1 (10) P666 5 (1)	J106 B5 (28) P120 A21,B21 J544 A31,B31 (4) J644 A31,B31 (11) P632 2 (10) P630 2 (6) P668 3 (1)
−19 V	J104 B42 (30)†	P624 2 (7)
−50 V	J104 A8,B8 (30)† J448 A30,B30 (14) J548 A30,B30 (8) P630 1 (5)	P120 A22,B22 (3) J544 A30,B30 (4) J644 A30,B30 (11) P632 1 (10)
±19 V GND	J104 A43,B43 (30)	P624 1 (7)
+5 V SENS	J104 A4 (30)	P123 B8 (3)†
15.1 V SENS	J104 B38 (30)	
+15 V SENS	J104 A5 (30)	P120 B7 (3)†
+50 V SENS	J104 A6 (30)	P120 B6 (3)†
−2 V SENS	J104 B35 (30) SHORT TO −2V	
−5.2 V SENS	J104 B34 (30)	
−15 V SENS	J104 A2 (30)	P120 B10 (3)†
−50 V SENS	J104 A1 (30)	P120 B11 (3)†






LOCATED APPROX. HERE
LOCATED APPROX. HERE
(30)
Diagram Number
REV APR 1992
Fig. 7-12. Main interconnect (A68) signal pinout.
MAIN INTERCONNECT (A68) CONNECTORS

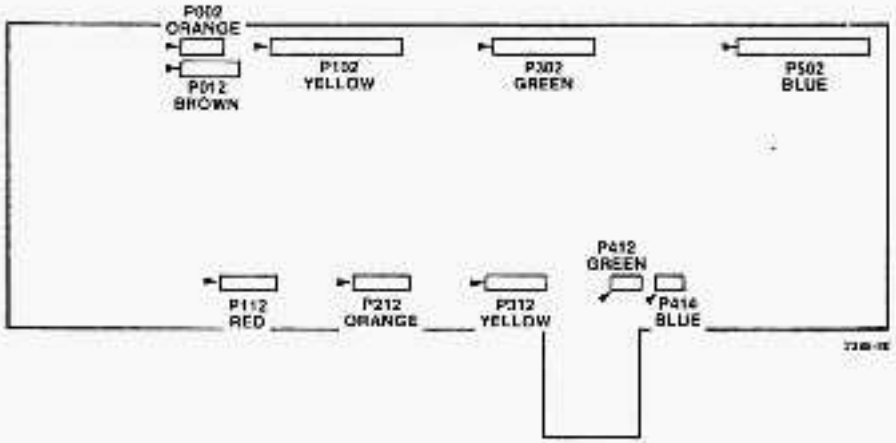


Fig. 7-43. Front Panel Mode, A10, wiring diagram.

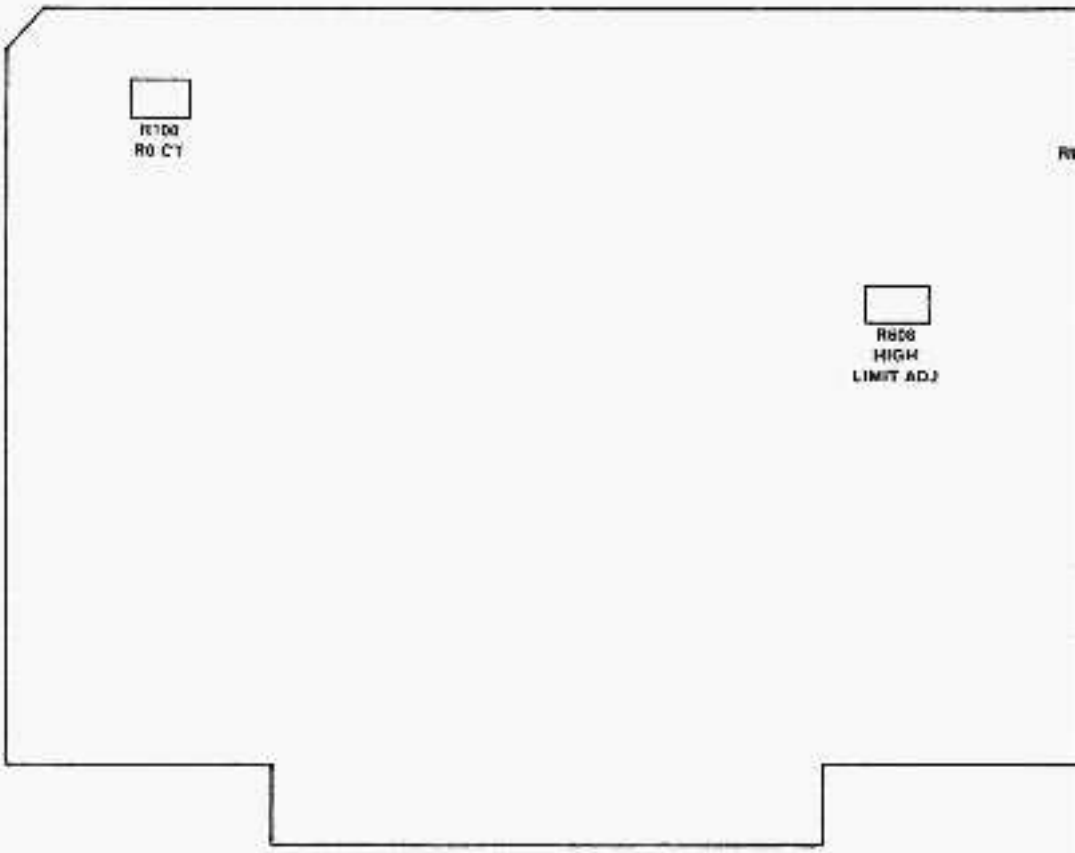
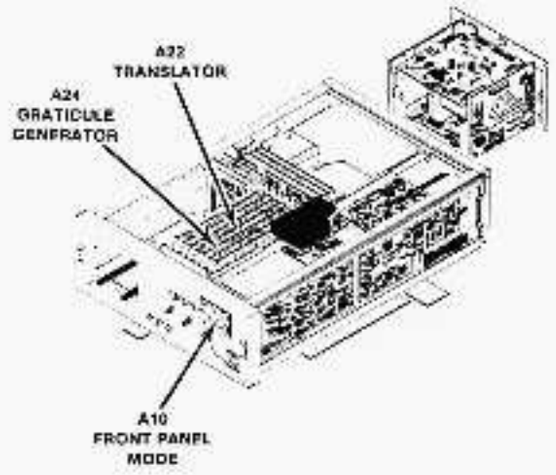


Fig. 7-44. Translator, A22, calibration diagram.



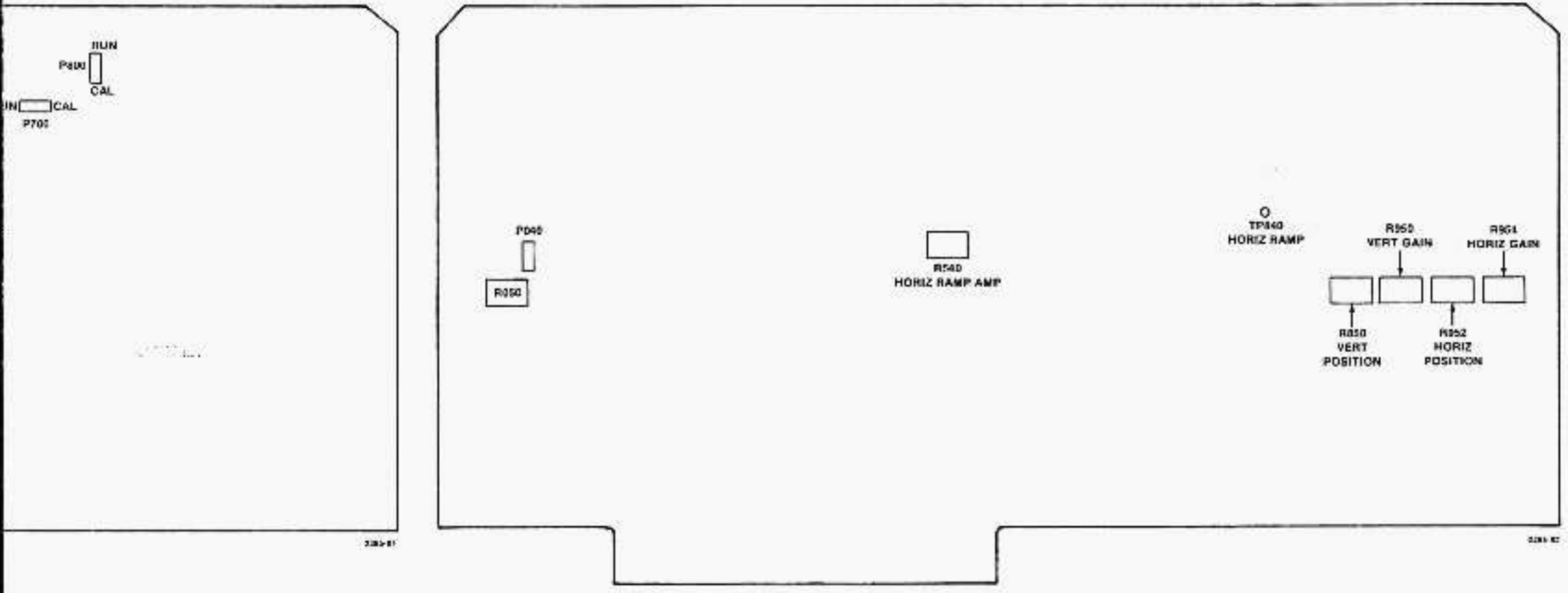


Fig. 7-45. Graticule Generator, A24, calibration diagram.

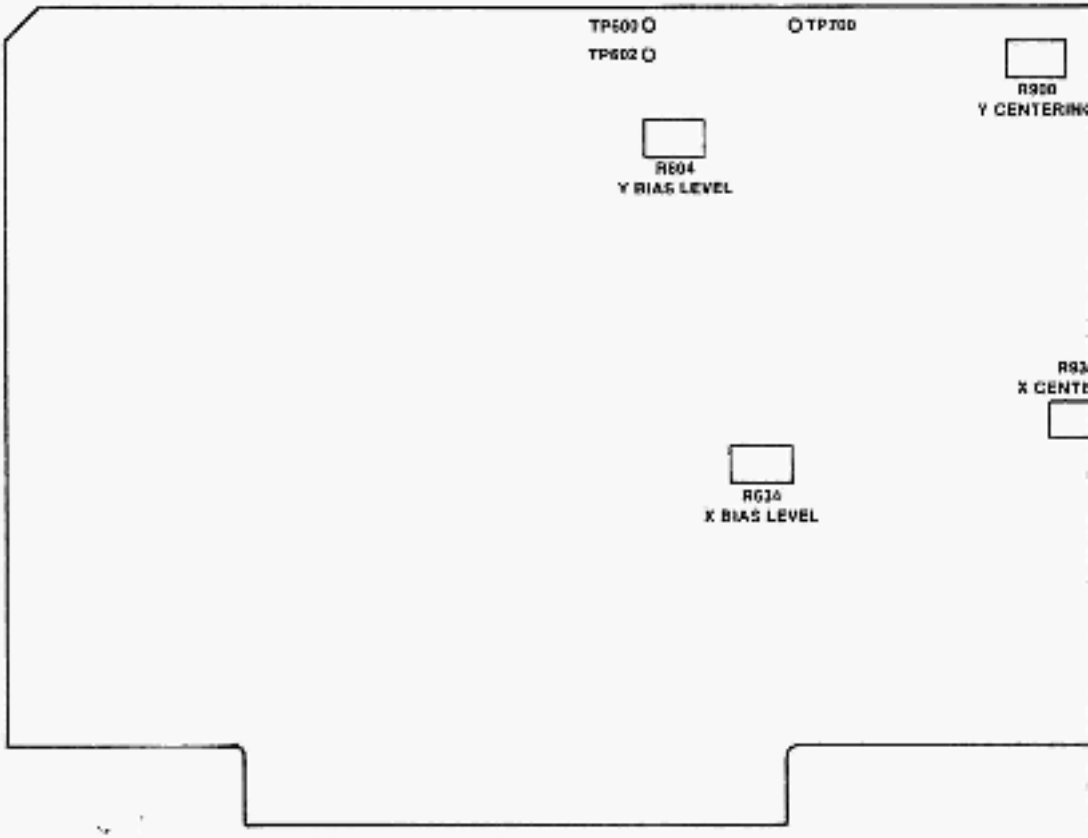


Fig. 7-45. X & Y Ramp Generator, A26, calibration diagram.

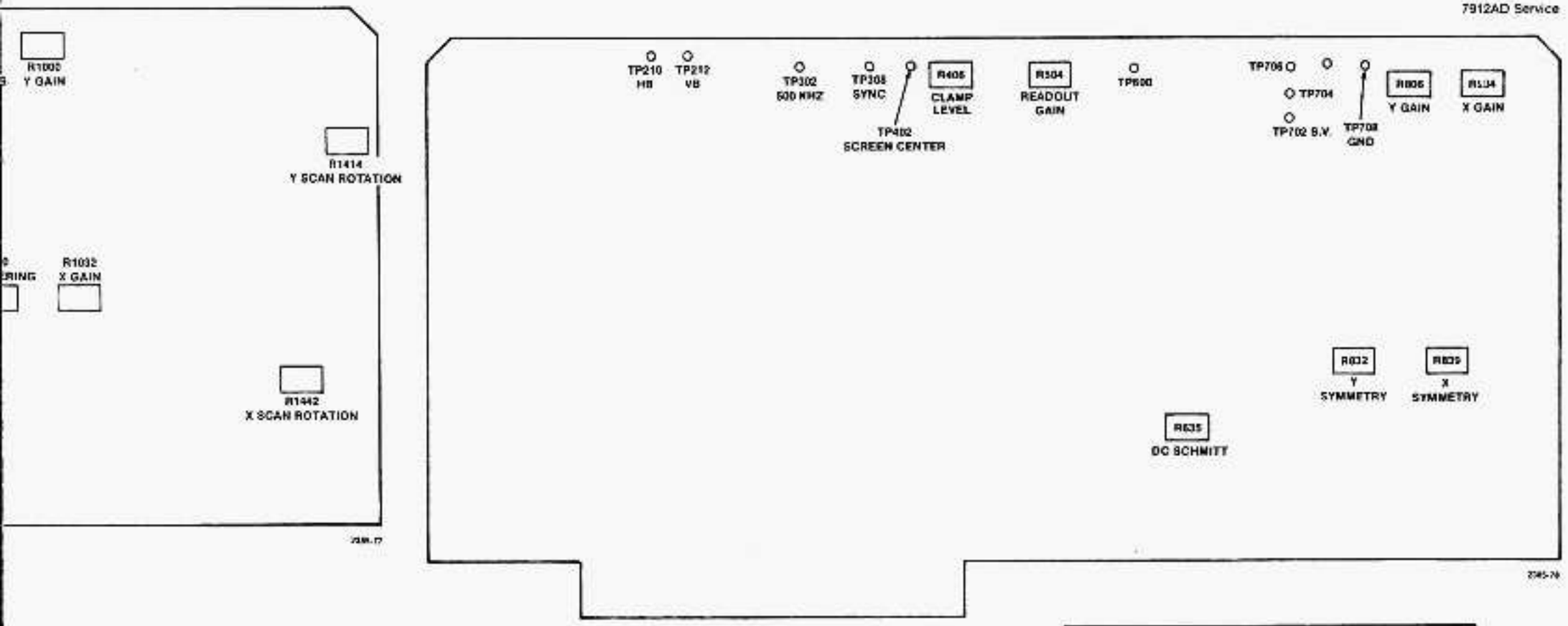
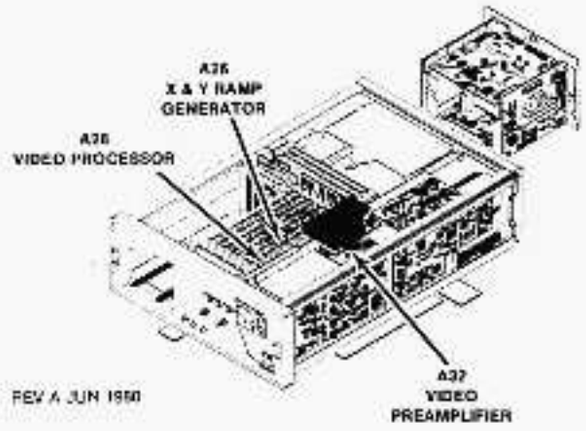


Fig. 7-47. Video Processor, A26, calibration diagram.



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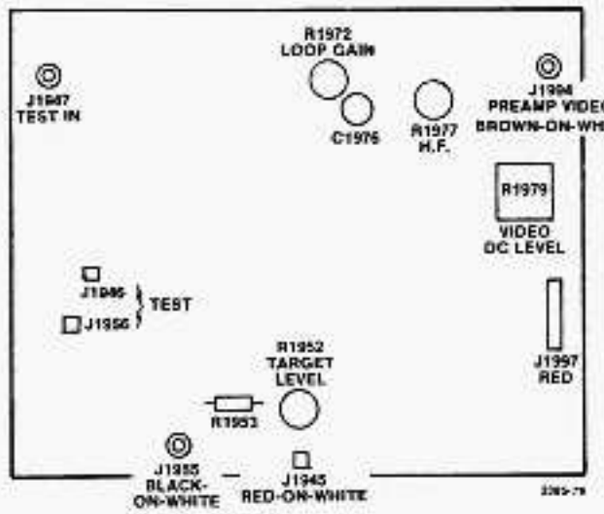


Fig. 7-48. Video Preamplifier, A32, calibration and wiring diagram.

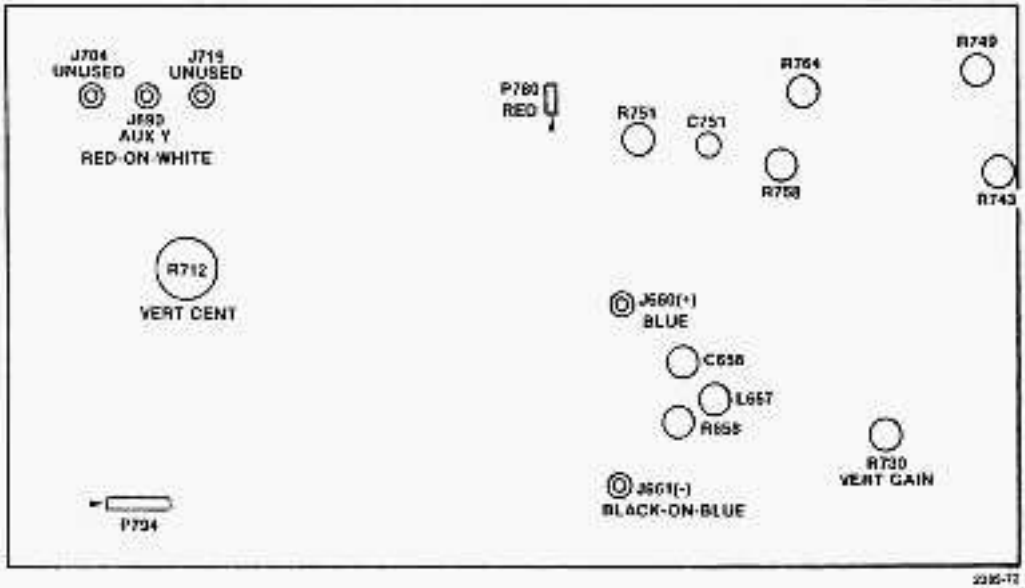


Fig. 7-49. Vertical Amplifier, A34, calibration and wiring diagram.

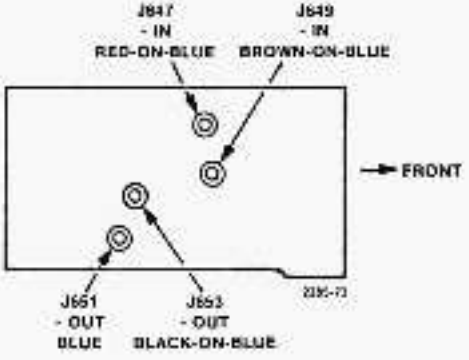


Fig. 7-50. Delay Line Termination, A35, wiring diagram.

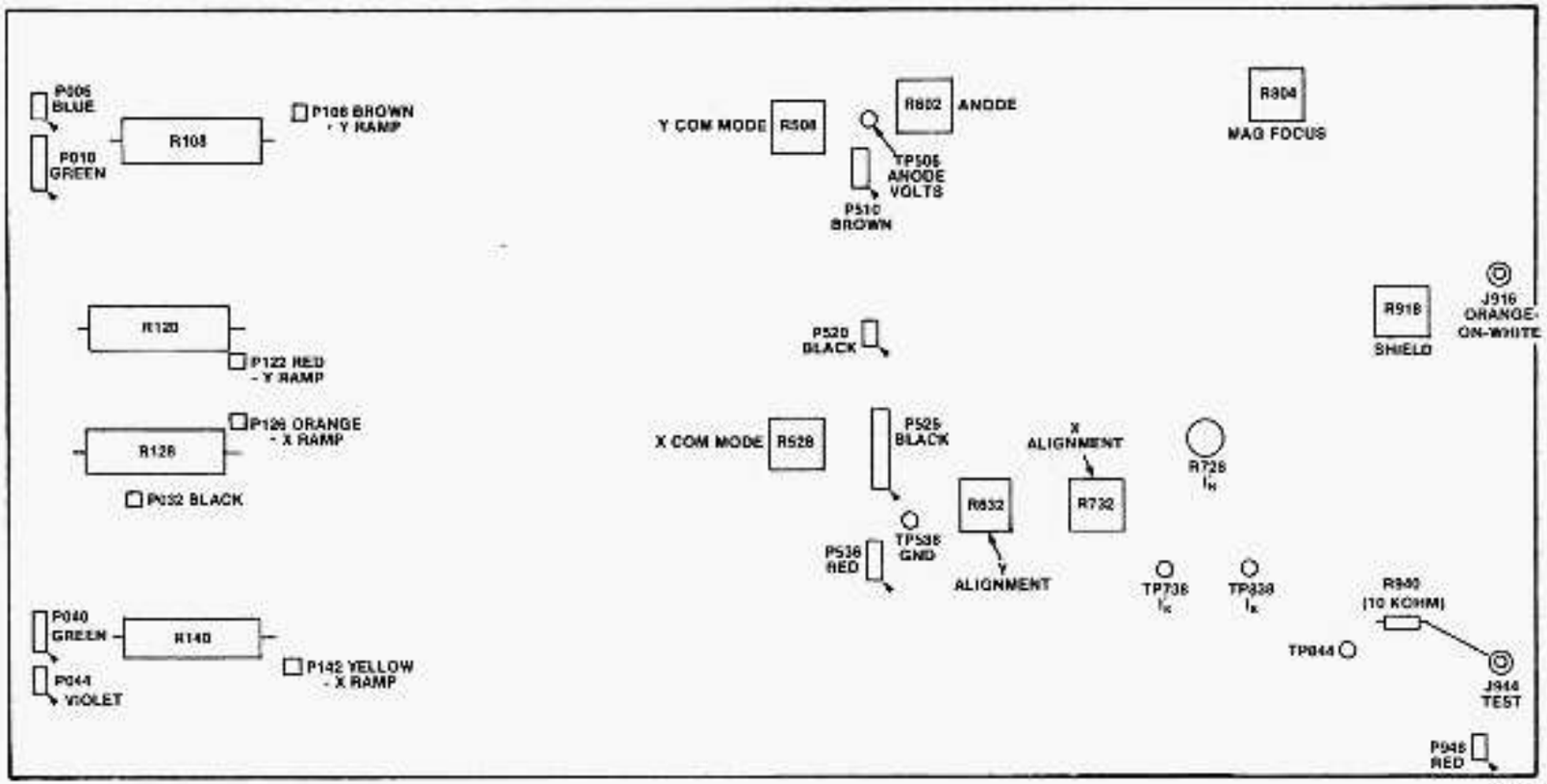
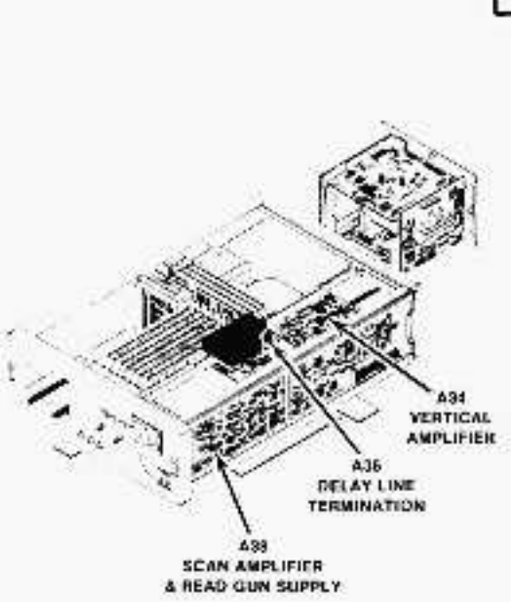


Fig. 7-51. Scan Amplifier & Read Gun Supply, A36, calibration and wiring diagram.



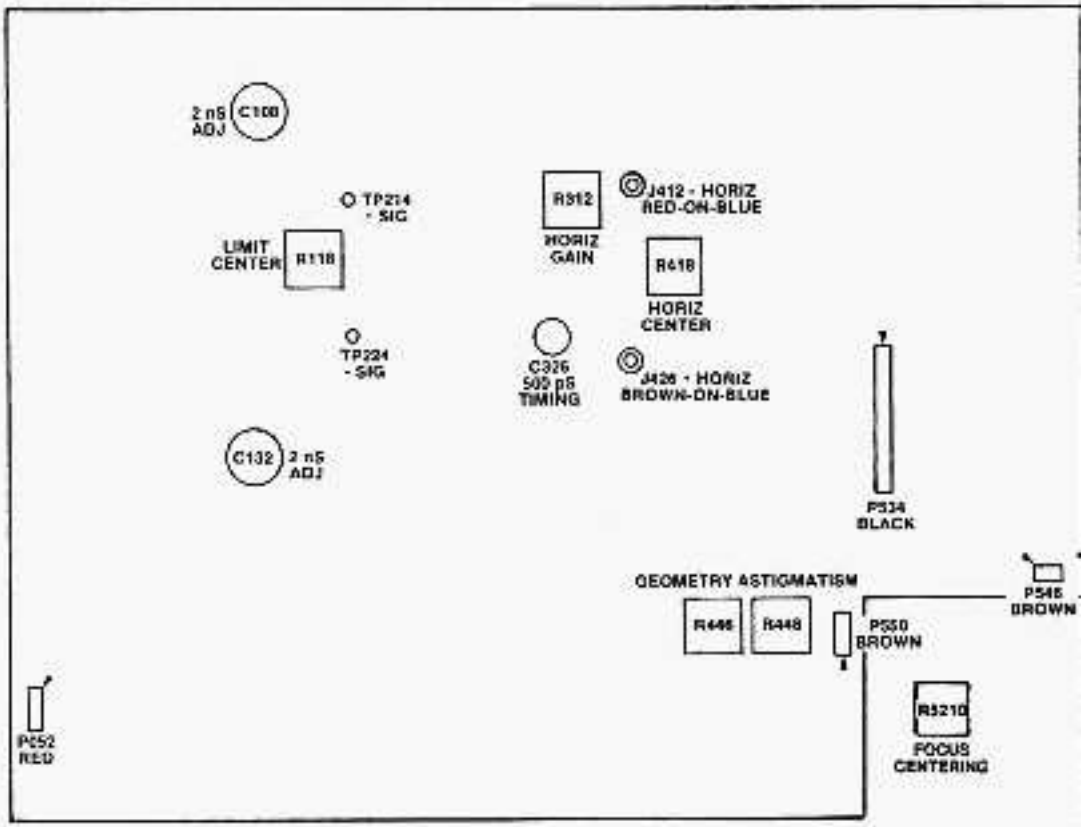
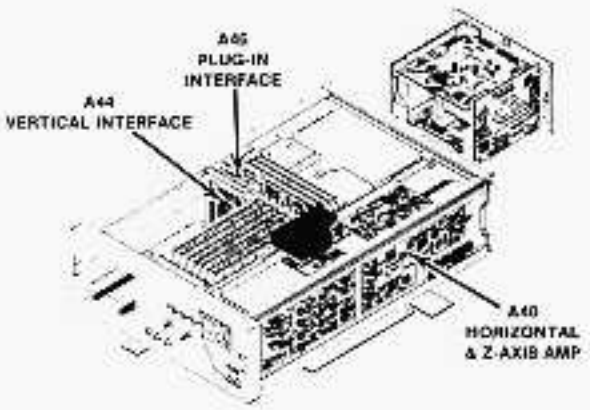
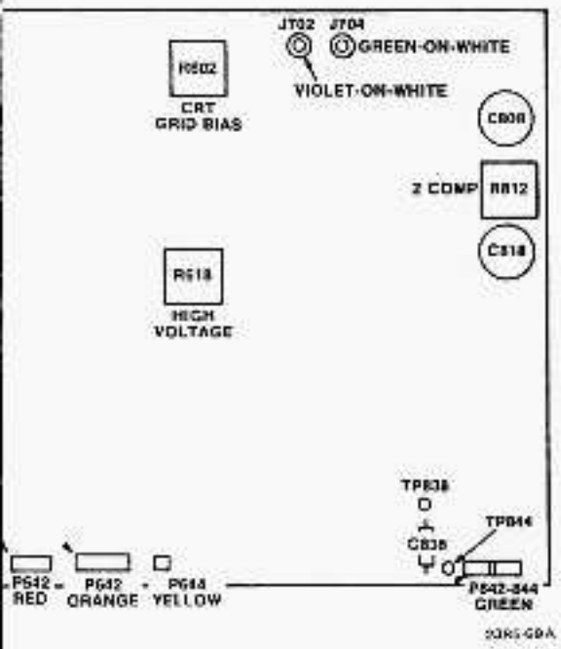


Fig. 7-52. Horizontal & Z-Axis Amplifier, A40, calibration and wiring diagram.



J4601 (BACK) - BROWN-ON-BLUE - VERT IN

J4621 (BACK) - RED-ON-BLUE - VERT IN



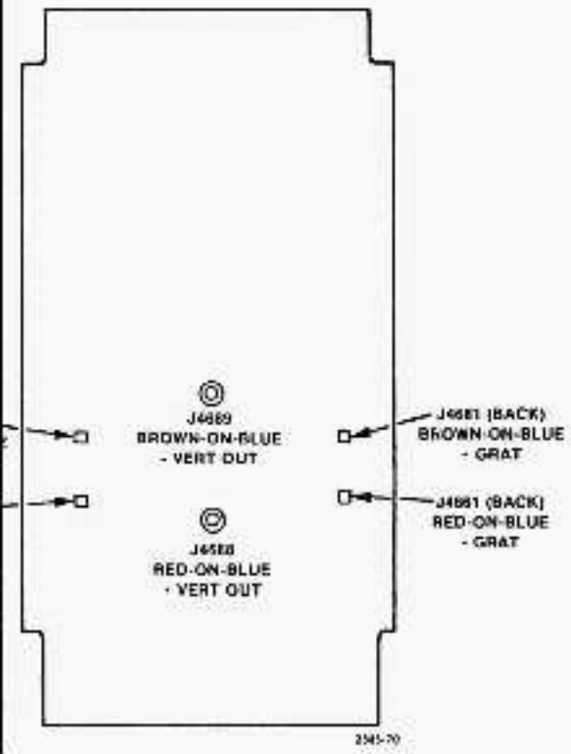


Fig. 7-53. Vertical interface, A44, wiring diagram.

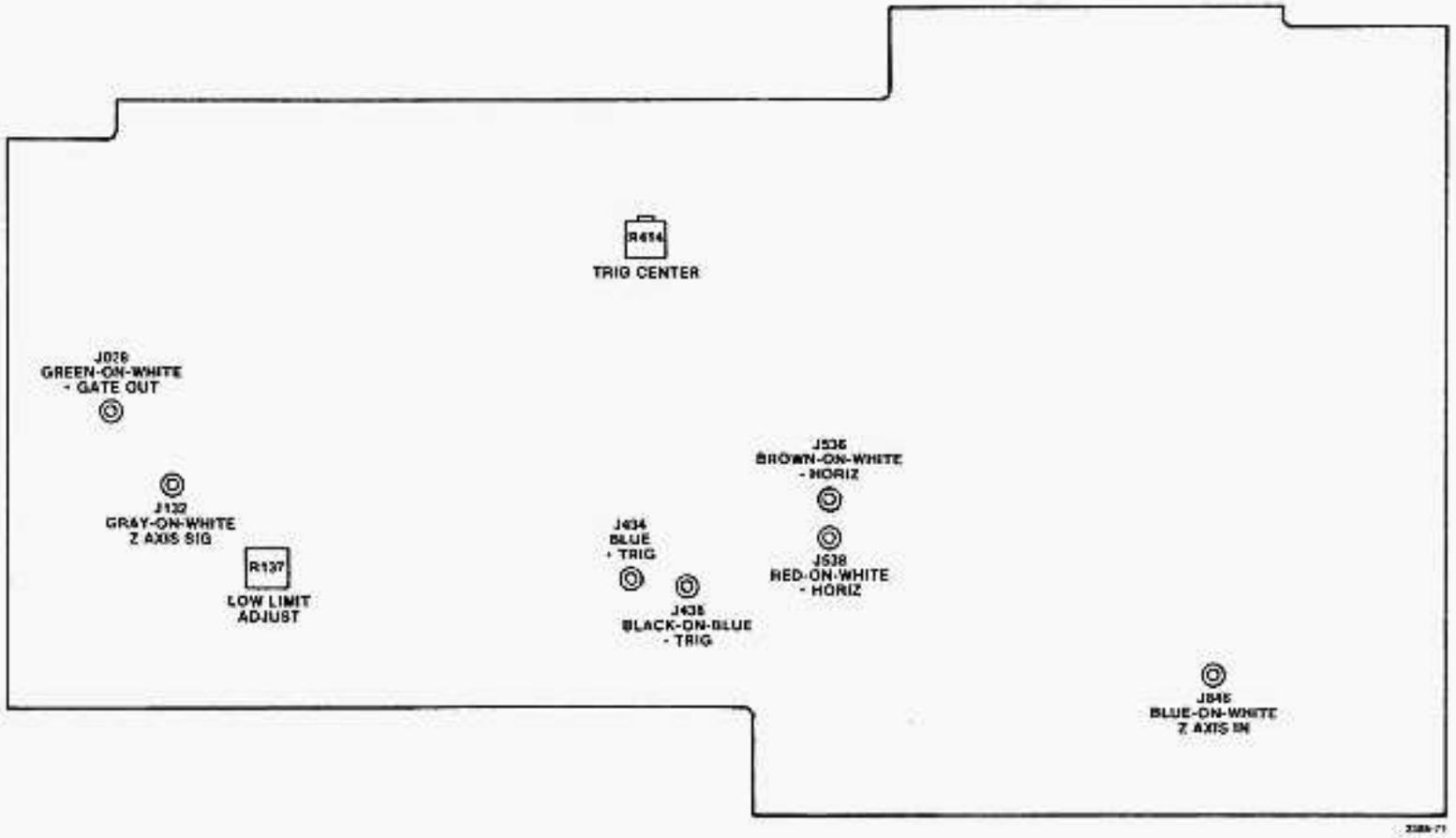


Fig. 7-54. Plug-in interface, A46, calibration and wiring diagram.

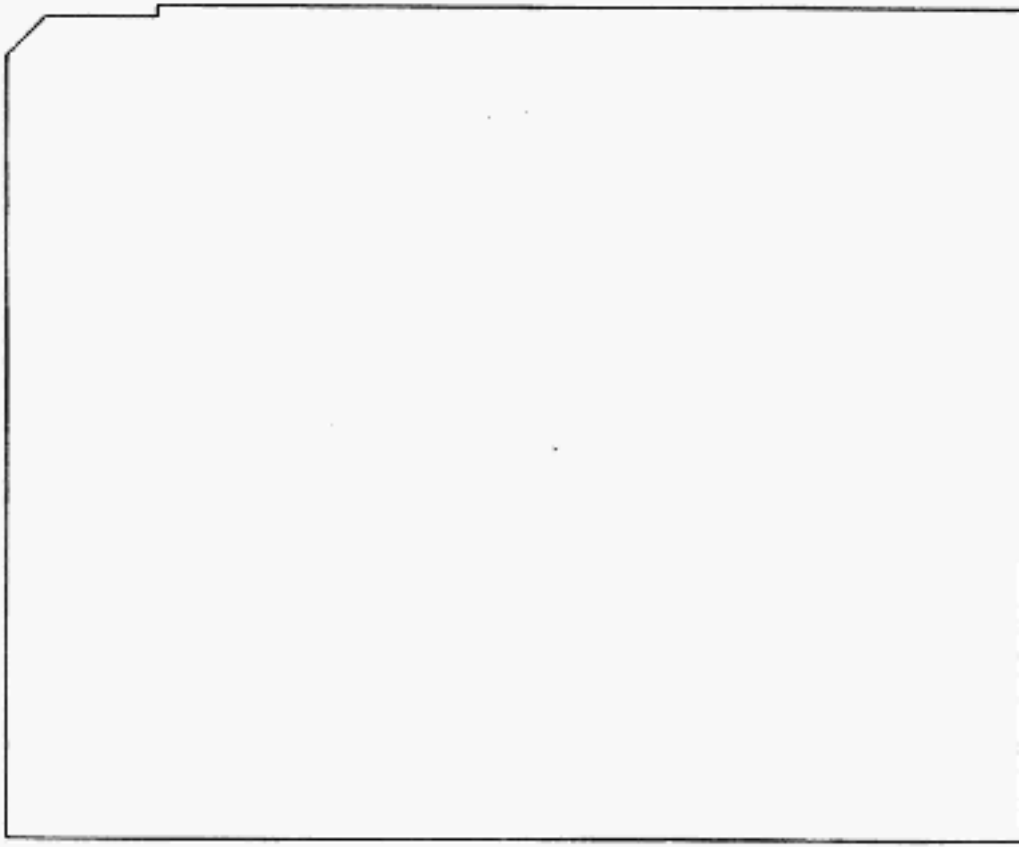


Fig. T-55. MPU, A54, calibration diagram.

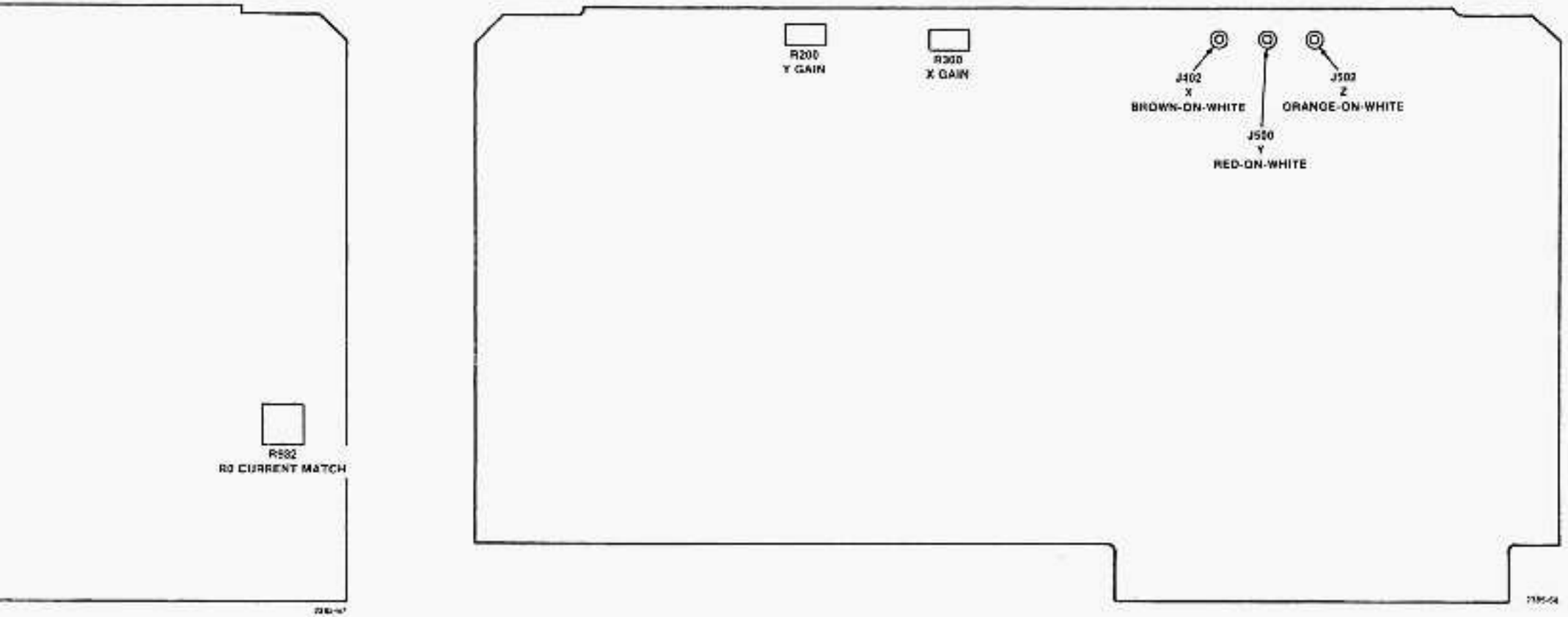
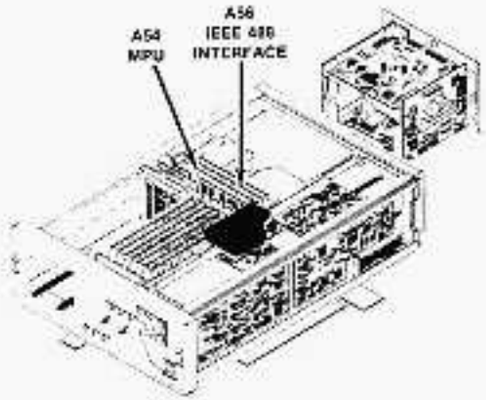


Fig. 7-58. IEEE 488 Interface, A56, calibration and wiring diagram.



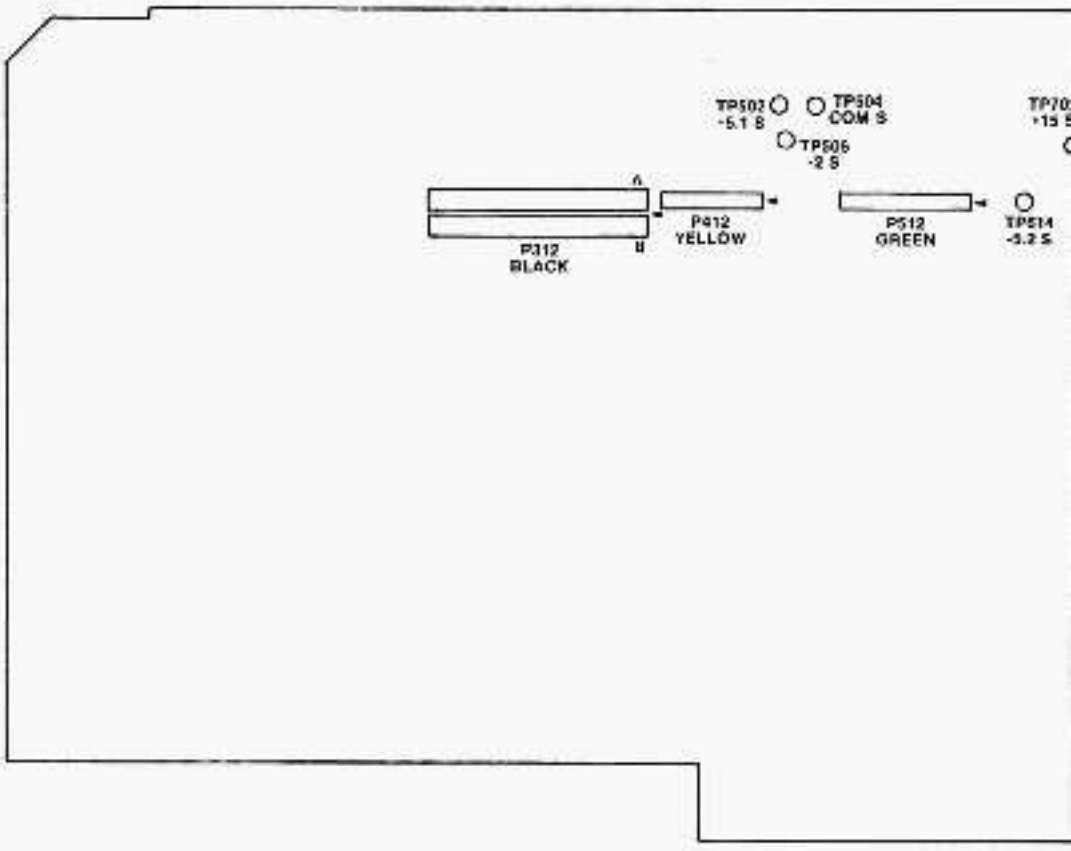
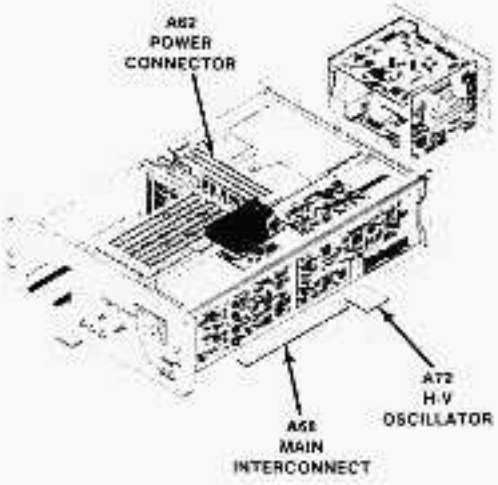
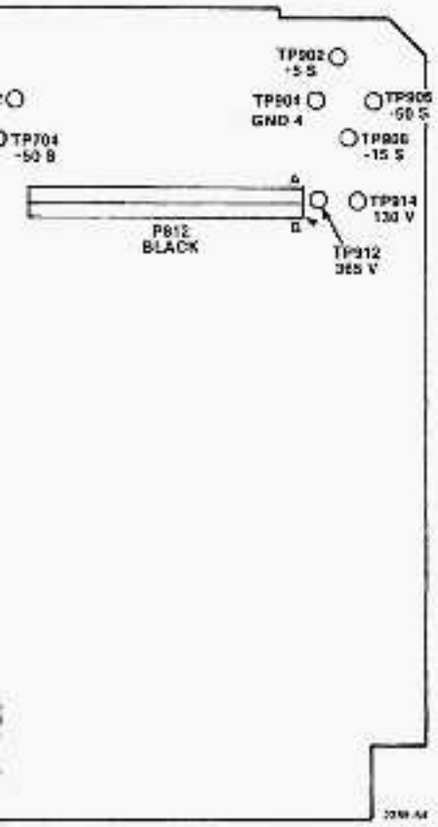


Fig. 7-57. Power Connector, A62, calibration and wiring diagram.





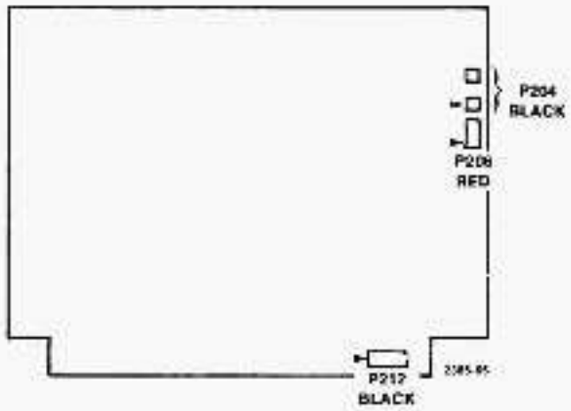


Fig. 7-53. High-Voltage Oscillator, A72, wiring diagram.

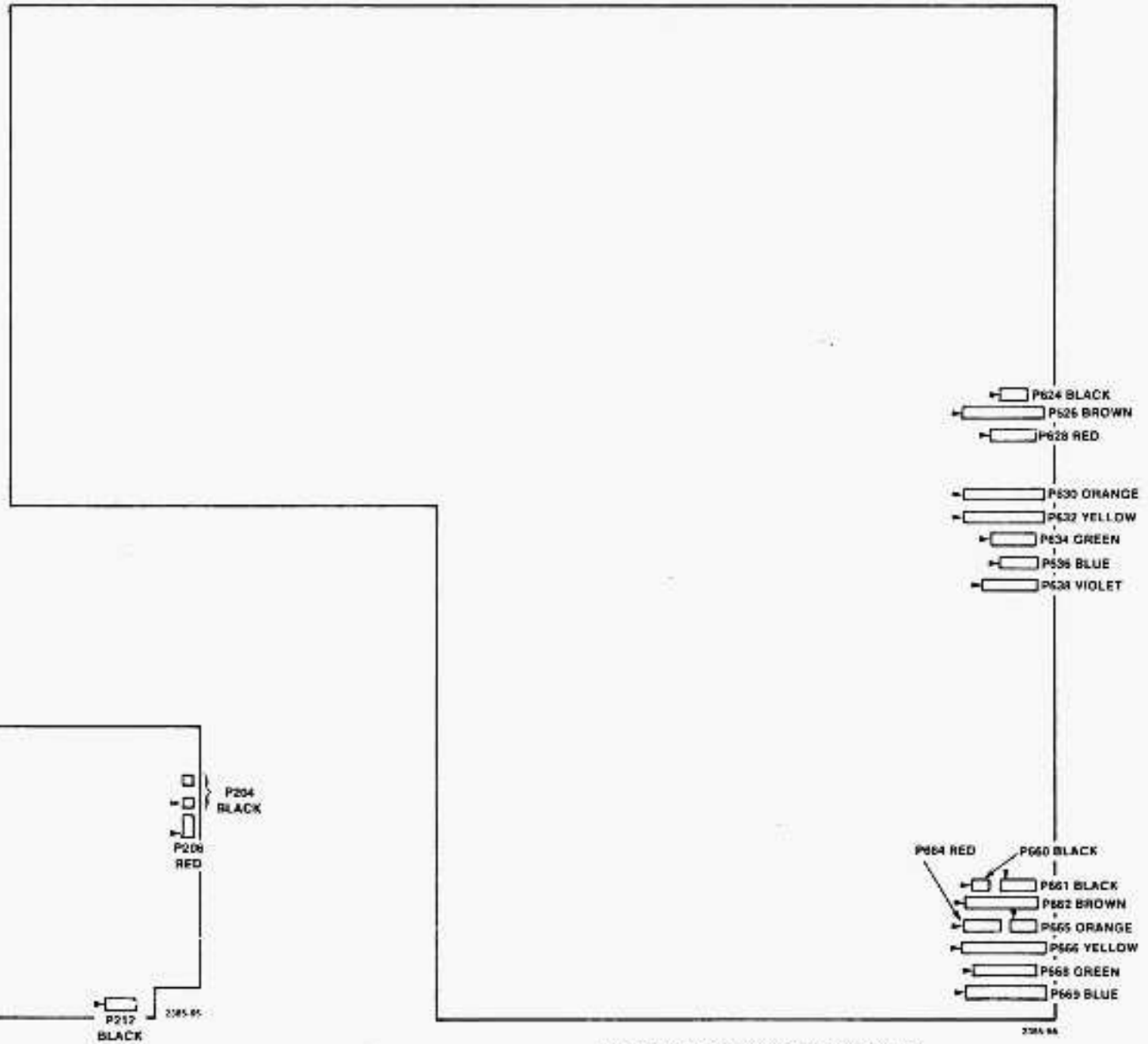


Fig. 7-55. Main Interconnect, A53, wiring diagram.

FIGS. 7-57, 7-58, AND 7-59

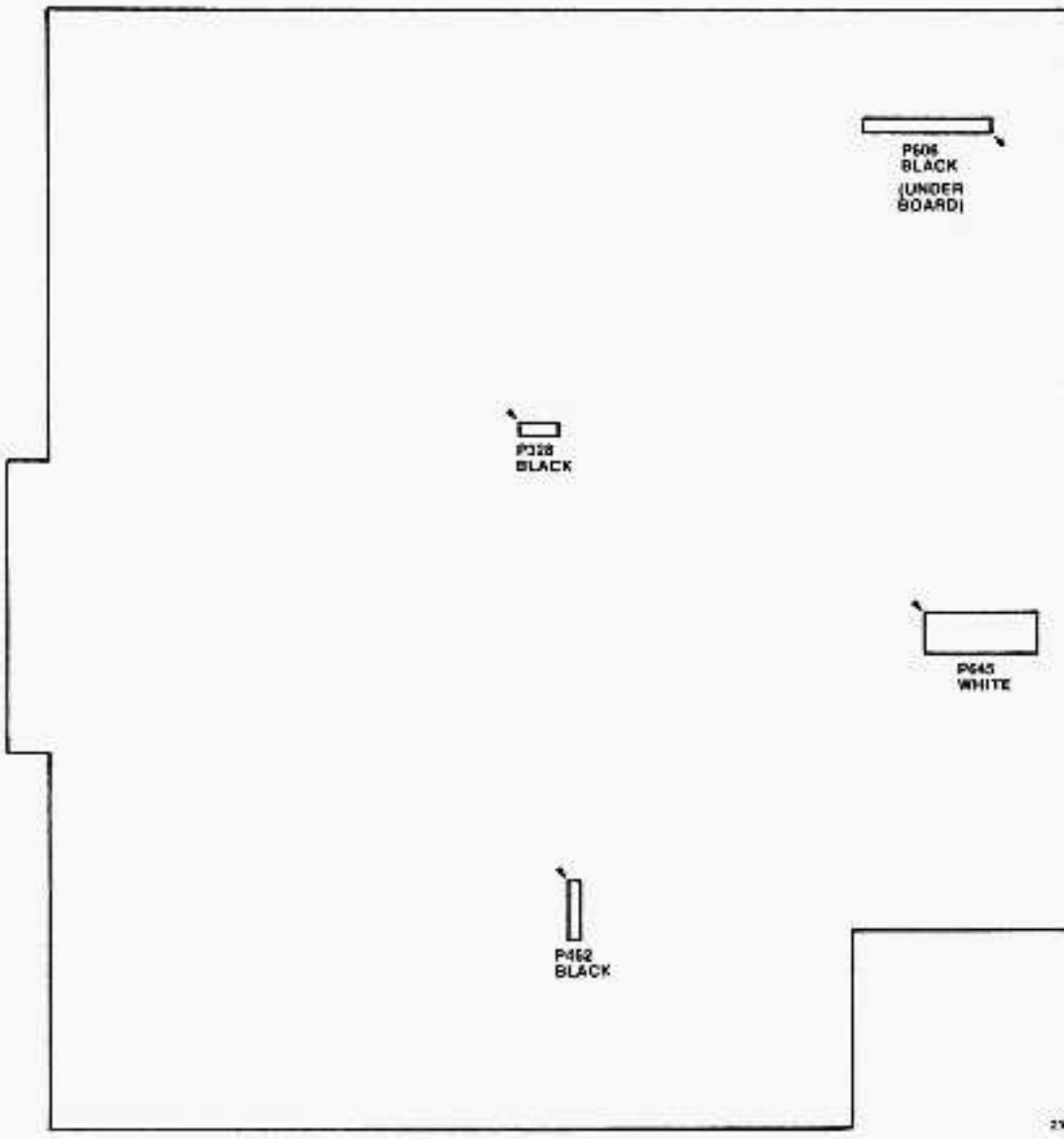


Fig. 7-60. Fan, A30, wiring diagram.

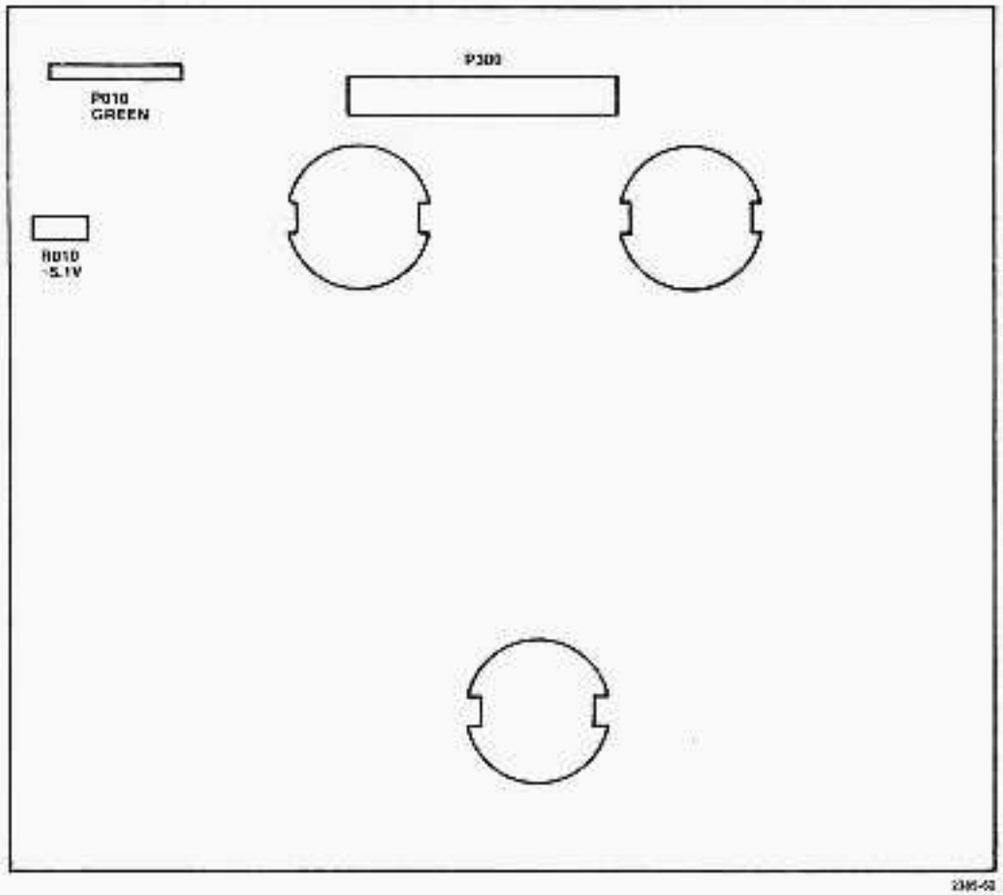


Fig. 7-61. Inverter, A82, calibration and wiring diagram.

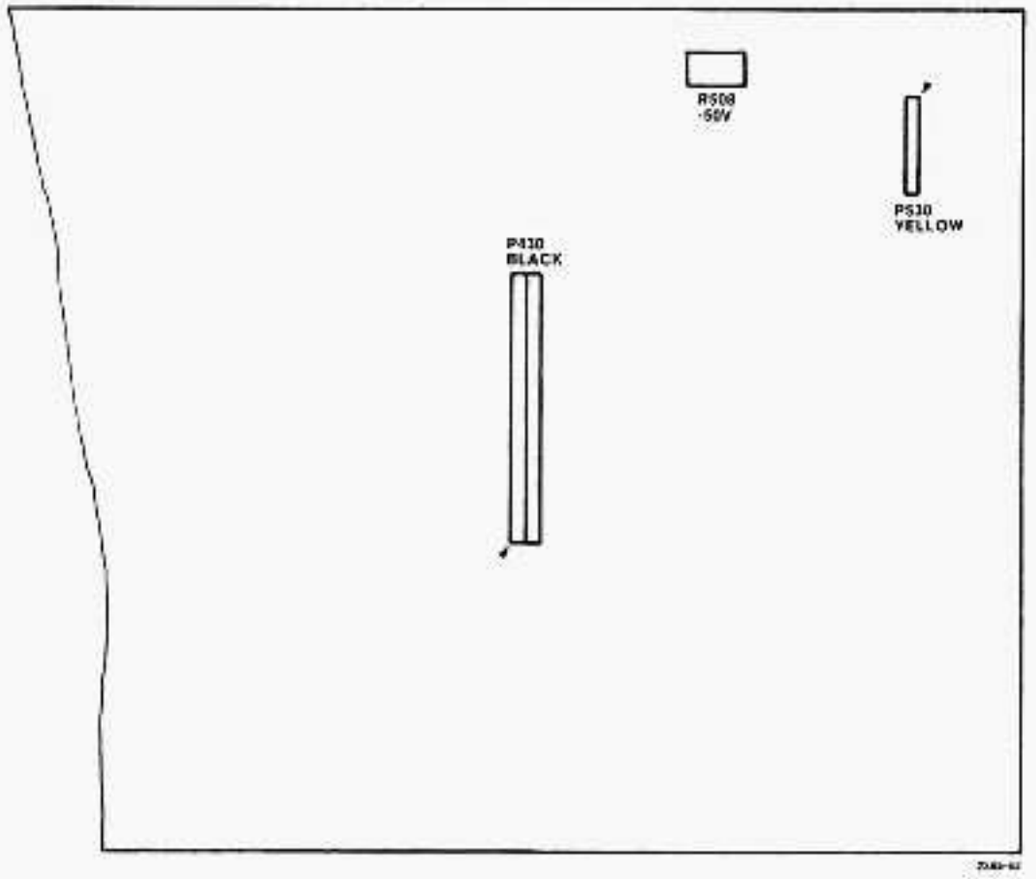
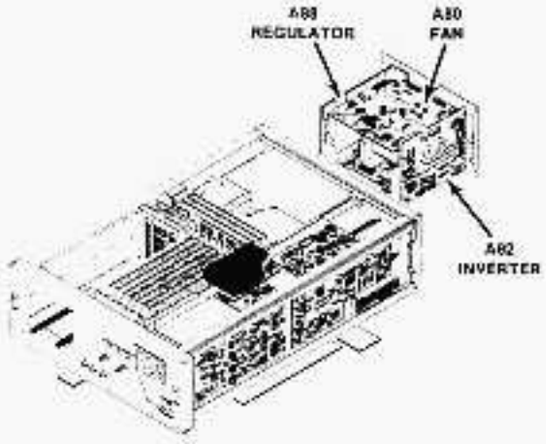


Fig. 7-62. Regulator, A88, calibration and wiring diagram.



FIGS. 7-60, 7-61, AND 7-62

REPLACEABLE MECHANICAL PARTS

PARTS ORDERING INFORMATION

Replacement parts are available from or through your local Tektronix, Inc. Field Office or representative.

Changes to Tektronix instruments are sometimes made to accommodate improved components as they become available, and to give you the benefit of the latest circuit improvements developed in our engineering department. It is therefore important, when ordering parts, to include the following information in your order: Part number, instrument type or number, serial number, and modification number if applicable.

If a part you have ordered has been replaced with a new or improved part, your local Tektronix, Inc. Field Office or representative will contact you concerning any change in part number.

Change information, if any, is located at the rear of this manual.

ITEM NAME

In the Parts List, an Item Name is separated from the description by a colon (:). Because of space limitations, an Item Name may sometimes appear as incomplete. For further Item Name identification, the U.S. Federal Cataloging Handbook H6-1 can be utilized where possible.

FIGURE AND INDEX NUMBERS

Items in this section are referenced by figure and index numbers to the illustrations.

INDENTATION SYSTEM

This mechanical parts list is indented to indicate item relationships. Following is an example of the indentation system used in the description column.

```
1 2 3 4 5          Name & Description

Assembly and/or Component
Attaching parts for Assembly and/or Component
     ---^---
     Detail Part of Assembly and/or Component
     Attaching parts for Detail Part
          ---^---
          Parts of Detail Part
          Attaching parts for Parts of Detail Part
               ---^---
```

Attaching Parts always appear in the same indentation as the item it mounts, while the detail parts are indented to the right. Indented items are part of, and included with, the next higher indentation. The separation symbol - - - ^ - - - indicates the end of attaching parts.

Attaching parts must be purchased separately, unless otherwise specified.

ABBREVIATIONS

	INCH
#	NUMBER SIZE
ACTR	ACTUATOR
ADPTR	ADAPTER
ALIGN	ALIGNMENT
AL	ALUMINUM
ASSEMB	ASSEMBLED
ASSY	ASSEMBLY
ATTEN	ATTENUATOR
AWG	AMERICAN WIRE GAGE
BD	BOARD
BRKT	BRACKET
BRS	BRASS
BRZ	BRONZE
BSHG	BUSHING
CAB	CABINET
CAP	CAPACITOR
CER	CERAMIC
CHAS	CHASSIS
CKT	CIRCUIT
COMP	COMPOSITION
CONN	CONNECTOR
COV	COVER
CPLG	COUPLING
CRT	CATHODE RAY TUBE
DEG	DEGREE
DWR	DRAWER
ELCTRN	ELECTRON
ELEC	ELECTRICAL
ELCTLT	ELECTROLYTIC
ELEM	ELEMENT
EPL	ELECTRICAL PARTS LIST
EQPT	EQUIPMENT
EXT	EXTERNAL
FH	FILLISTER HEAD
FLEX	FLEXIBLE
FLH	FLAT HEAD
FLTR	FILTER
FR	FRAME or FRONT
FSTNR	FASTENER
FT	FOOT
FXD	FIXED
GSKT	GASKET
HDL	HANDLE
HEX	HEXAGON
HEX HD	HEXAGONAL HEAD
HEX SOC	HEXAGONAL SOCKET
HLCPS	HELICAL COMPRESSION
HLEXT	HELICAL EXTENSION
HV	HIGH VOLTAGE
IC	INTEGRATED CIRCUIT
ID	INSIDE DIAMETER
IDENT	IDENTIFICATION
IMPLR	IMPELLER
IN	INCH
INCAND	INCANDESCENT
INSUL	INSULATOR
INTL	INTERNAL
LMPHLDR	LAMPHOLDER
MACH	MACHINE
MECH	MECHANICAL
MTG	MOUNTING
NIP	NIPPLE
NON WIRE	NOT WIRE WOUND
ORD	ORDER BY DESCRIPTION
OD	OUTSIDE DIAMETER
OVH	OVAL HEAD
PH BRZ	PHOSPHOR BRONZE
PL	PLAIN or PLATE
PLSTC	PLASTIC
PT	PART NUMBER
PAN	PAN HEAD
PWR	POWER
RCPT	RECEPTACLE
RES	RESISTOR
RHD	RIGHT
RLF	RELIEF
RTNR	RETAINER
SCH	SOCKET HEAD
SCOPE	OSCILLOSCOPE
SCR	SCREW
SE	SINGLE END
SECT	SECTION
SEMICOND	SEMICONDUCTOR
SHLD	SHIELD
SHLDED	SHIELDED
SKT	SOCKET
SL	SLIDE
SPLRS	SPLINES
SLVG	SLEEVING
SPR	SPRING
SQ	SQUARE
SST	STAINLESS STEEL
STL	STEEL
SW	SWITCH
T	TUBE
TERM	TERMINAL
THD	THREAD
THK	THICK
THSN	THERMOSETTING
TPG	TAPPING
TRH	TRUSS HEAD
V	VOLTAGE
VAR	VARIABLE
W	WITH
WSHR	WASHER
XFMR	TRANSFORMER
XLTR	TRANSLATOR

CROSS INDEX - MFR. CODE NUMBER TO MANUFACTURER

Mfr. Code	Manufacturer	Address	City, State, Zip Code
000EK	STAUFFER SUPPLY	105 SE TAYLOR	PORTLAND, OR 97214
00779	AMP INC	P O BOX 3608	HARRISBURG PA 17105
01295	TEXAS INSTRUMENTS INC SEMICONDUCTOR GROUP	13500 N CENTRAL EXPRESSWAY P O BOX 225012 M/S 69	DALLAS TX 75265
01536	TEXTRON INC CAMCAR DIV SEMS PRODUCTS UNIT	1818 CHRISTIAN ST	ROCKFORD IL 61108
02660	BUNKER RAMO CORP AMPHENOL NORTH AMERICA DIV	2801 S 25TH AVE	BROADVIEW IL 60153
04348	LORRENCE ENGINEERING AND SUPPLY INC	500 S FLOWER ST P O BOX 30	BURBANK CA 91503
05574	VIKING CONNECTORS INC	21001 NORDHOFF ST	CHATSWORTH CA 91311
05820	GG AND G MAKEFIELD ENGINEERING	66 DARLINGTON RD	MAKEFIELD MA 01880
06223	ELECTROVERT INC	86 HORTFORD AVE	MOUNT VERNON NY 10553
06383	PANDUIT CORP	17301 RIDGELAND	TINLEY PARK IL 60477
06666	GENERAL DEVICES CO INC	1910 S POST RD P O BOX 39100	INDIANAPOLIS IN 46239
06915	RICHCO PLASTIC CO	5825 N TRIPP AVE	CHICAGO IL 60646
07418	NELSON NAME PLATE CO	3191 CASITAS	LOS ANGELES CA 90039
07703	TECHNICAL WIRE PRODUCTS INC DBA TECHNIT INC	129 DERMODY ST	CRANFORD NJ 07016
07707	USM CORP SUB OF GARANT INDUSTRIES INC USM FASTENER DIV	510 BEAVER RD	SHELTON CT 06484
08261	SPECTRA-STRIP AN ELTRA CO	7100 LAMPSON AVE	GARDEN GROVE CA 92642
09772	WEST COAST LOCKWASHER CO INC	16730 E JOHNSON DRIVE P O BOX 3688	CITY OF INDUSTRY CA 91749
09922	BURNDY CORP	RICHARDS AVE	NORWALK CT 06852
11897	PLASTIGLIDE MFG CORP	2701 W EL SEGUNDO BLVD	HAWTHORNE CA 90250
12327	FREENAY CORP	5901 ALLEN DR	CLEVELAND OH 44125
12360	ALBANY FASTENERS INC DIV OF AMBAND CORP	145 MCCORMICK AVE	SOUTH NORWALK CT 06854
13103	THERMALLOY CO INC	2021 W VALLEY VIEW LANE P O BOX 34029	DALLAS TX 75234
13511	AMPHENOL CORPE DIV BUNKER RAMO CORP		LOS GATOS CA
14880	INDUSTRIAL GASKET INC	P O BOX 24048	OKLAHOMA CITY OK 73124
16037	SPRUCE PINE MICA CO.	P. O. BOX 218	SPRUCE PINE, NC 28777
16428	BELDEN CORP ELECTRONIC DIV	2200 US HWY 27 SOUTH P O BOX 1980	RICHMOND IN 47374
18722	RCA CORP SOLID STATE DIVISION	CRESTWOOD RD	MOUNTAINTOP PA 18707
22526	DU PONT E I DE NEMOURS AND CO INC DU PONT CONNECTOR SYSTEMS	30 HUNTER LANE	CAMP HILL PA 17011
24505	CORNING GLASS WORKS	550 HIGH ST	BRADFORD PA 16701
24931	SPECIALTY CONNECTOR CO INC	2820 ENGRESS PLACE P O BOX D	GREENWOOD IN 46142
26365	GRIES REPRODUCER CO DIV OF CODTS AND CLARK INC	125 RECHANDCO AVE	NEW ROCHELLE NY 10802
27264	MOLEX INC CORPORATE HQ	2222 WELLINGTON COURT	LISLE IL 60532
70318	ALLMETAL SCREW PRODUCTS CO INC	821 STEWART AVE	GARDEN CITY NY 11530
70903	BELDEN CORP	2000 S BATAVIA AVE	GENEVA IL 60134
71059	BRISTOL SOCKET SCREW CO		WATERBURY CT
71279	MIDLAND-ROSS CORP CAMBION DIV	ONE ALEWIFE PLACE	CAMBRIDGE MA 02138
71785	TRW INC TRW CINCH CONNECTORS	1501 MORSE AVE	ELK GROVE VILLAGE IL 60007
72228	AMCA INTERNATIONAL CORP CONTINENTAL SCREW CO DIV	450 MT PLEASANT	NEW BEDFORD MA 02742
73734	FEDERAL SCREW PRODUCTS INC	3919 N KEDZIE AVE	CHICAGO IL 60618
73743	FISCHER SPECIAL MFG CO	446 MORGAN ST	CINCINNATI OH 45206
74445	HOLO-KROME CO	31 BROOK ST	WEST HARTFORD CT 06110
74868	AMPHENOL P F OPERATIONS AN ALLIED CO	33 E FRANKLIN ST	DANBURY CT 06810
78821	ITEN FERRE CO INC	4001 BENEFIT AVE P O BOX 9	ASHTABULA OH 44004

CROSS INDEX - MFR. CODE NUMBER TO MANUFACTURER

Mfr. Code	Manufacturer	Address	City, State, Zip Code
75915	LITTELFUSE INC	800 E NORTHWEST HWY	DES PLAINES IL 60018
77900	SHAKEPROOF DIV OF ILLINOIS TOOL WORKS	SAINT CHARLES RD	ELGIN IL 60120
78189	ILLINOIS TOOL WORKS INC SHAKEPROOF DIVISION	ST CHARLES ROAD	ELGIN IL 60120
80009	TEKTRONIX INC	4900 S W GRIFFITH DR P O BOX 500	BEAVERTON OR 97077
81041	HOWARD INDUSTRIES DIV OF HSI INDUSTRIES INC	P O BOX 267	MILFORD IL 60953
81350	JOINT ARMY-NAVY SPECIFICATIONS, PROMULGATED BY MILITARY DEPARTMENTS UNDER AUTHORITY OF DEFENSE STANDARDIZATION MANUAL 4120 3-M		
83309	ELECTRICAL SPECIALTY CO SUBSIDIARY OF BELDEN CORP	213 E HARRIS AVE	SOUTH SAN FRANCISCO CA 94080
83385	MICRODOT MANUFACTURING INC GREER-CENTRAL DIV	3221 N 836 BEAVER RD	TROY MI 48098
83486	ELCO INDUSTRIES INC	1101 SAMUELSON RD	ROCKFORD IL 61101
83553	ASSOCIATED SPRING BARNES GROUP INC	15001 S BROADWAY P O BOX 221	GARDENA CA 90248
85471	BOYD INDUSTRIAL RUBBER DIV OF B B MOTO CO	2527 DOOLITTLE AVE	SAN LEANDRO CA 94579
86928	SEASTROM MFG CO INC	701 SONORA AVE	GLENDALE CA 91201
87893	TOWER MFG CORP	158 PINE ST	PROVIDENCE RI 02903
91293	COMMON SPRING BAR MFG CO	1729 JUNCTION AVE	SAN JOSE CA 95112
91506	DENEVILLE-SCHOONMAKER MFG CO	910 JEFFERSON AVE P O BOX 318	NEWPORT NEWS VA 23607
91836	KINGS ELECTRONICS CO INC	40 MARBLEDALE ROAD	TUCKAHOE NY 10707
93907	TEXTRON INC CAMCAR DIV	600 18TH AVE	ROCKFORD IL 61101
95987	WECKESSER CO INC	4444 WEST LAWING PARK RD	CHICAGO IL 60641
98159	RUBBER TECH, INC.	19115 HAMILTON AVE., P O BOX 389	GARDENA, CA 90247
98978	INTERNATIONAL ELECTRONIC RESEARCH CORP SUB OF DYNAMICS CORP OF AMERICA	135 N MARENGO AVE	BURBANK CA 91502
99109	HELLER DBA ADOLF AG C/O PANEL COMPONENTS CORP	955 TESCONI CIRCLE	SANTA ROSA CA 95401
TK0362	NORTHWEST FASTENER SALES INC	7923 SW CIRRUS DRIVE	BEAVERTON OR 97005
TK0409	KEN R HUNKE CO	2211 NW NICOLAI	PORTLAND OR 97210
TK0435	PORTLAND SCREW CO	6520 N BASIN	PORTLAND OR 97217
TK0436	LEWIS SCREW CO	4114 S PEORIA	CHICAGO IL 60609
TK0858	STAUFFER SUPPLY CO	105 SE TAYLOR	PORTLAND OR 97214
TK0892	GEPENE CORP	PO BOX 1289	UNION TOWN PA 15401
TK1319	MORELLIS S & D PLASTICS	1812 18-TH AVE	FOREST GROVE OR 97116
TK1373	PATELEC-CEN (ITALY)	10156 TORINO	VALLENTOLLE 62/455 ITALY
TK1483	TERA PRODUCTS INC	46 SOLOM ST	PROVIDENCE RI 02907

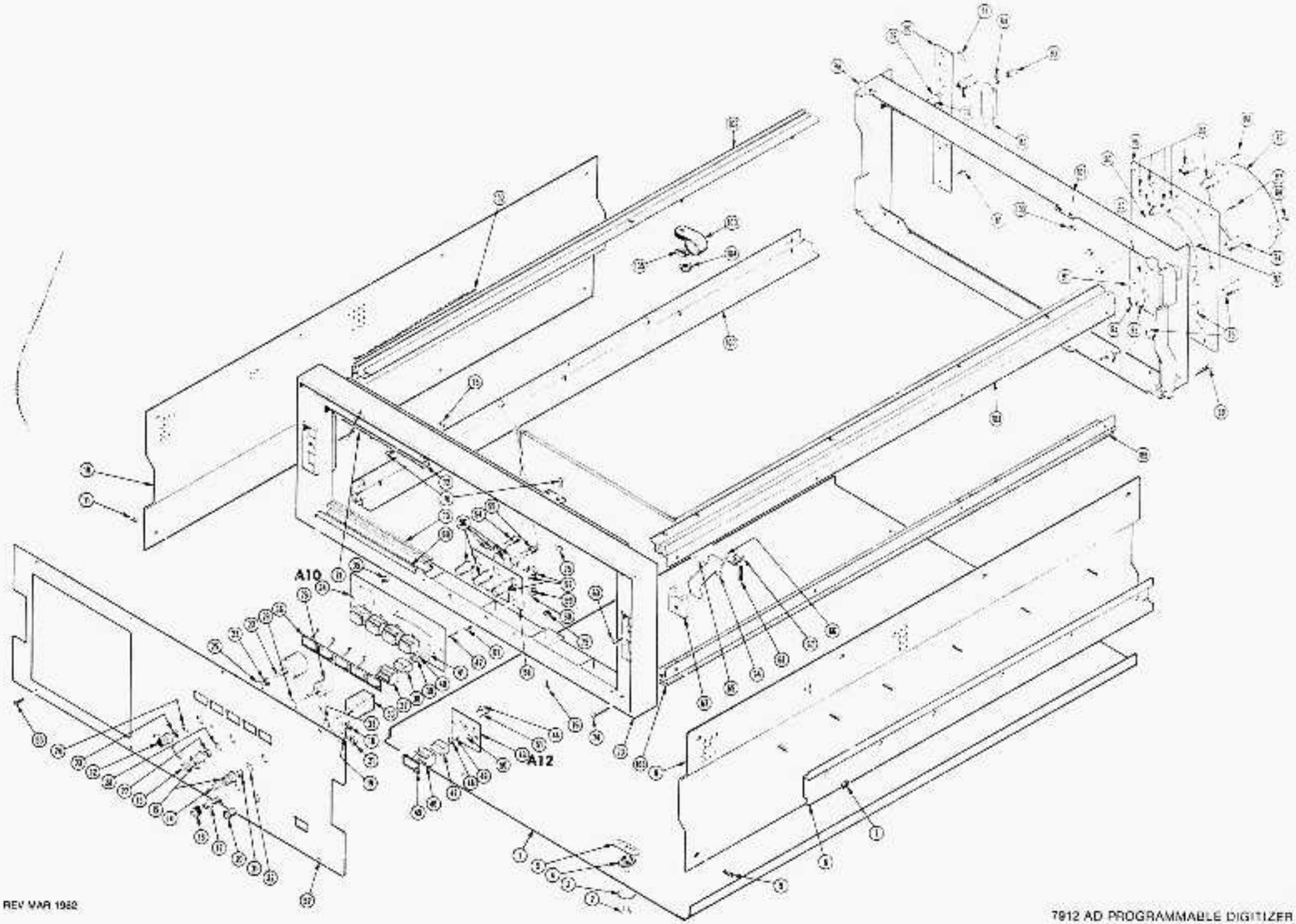


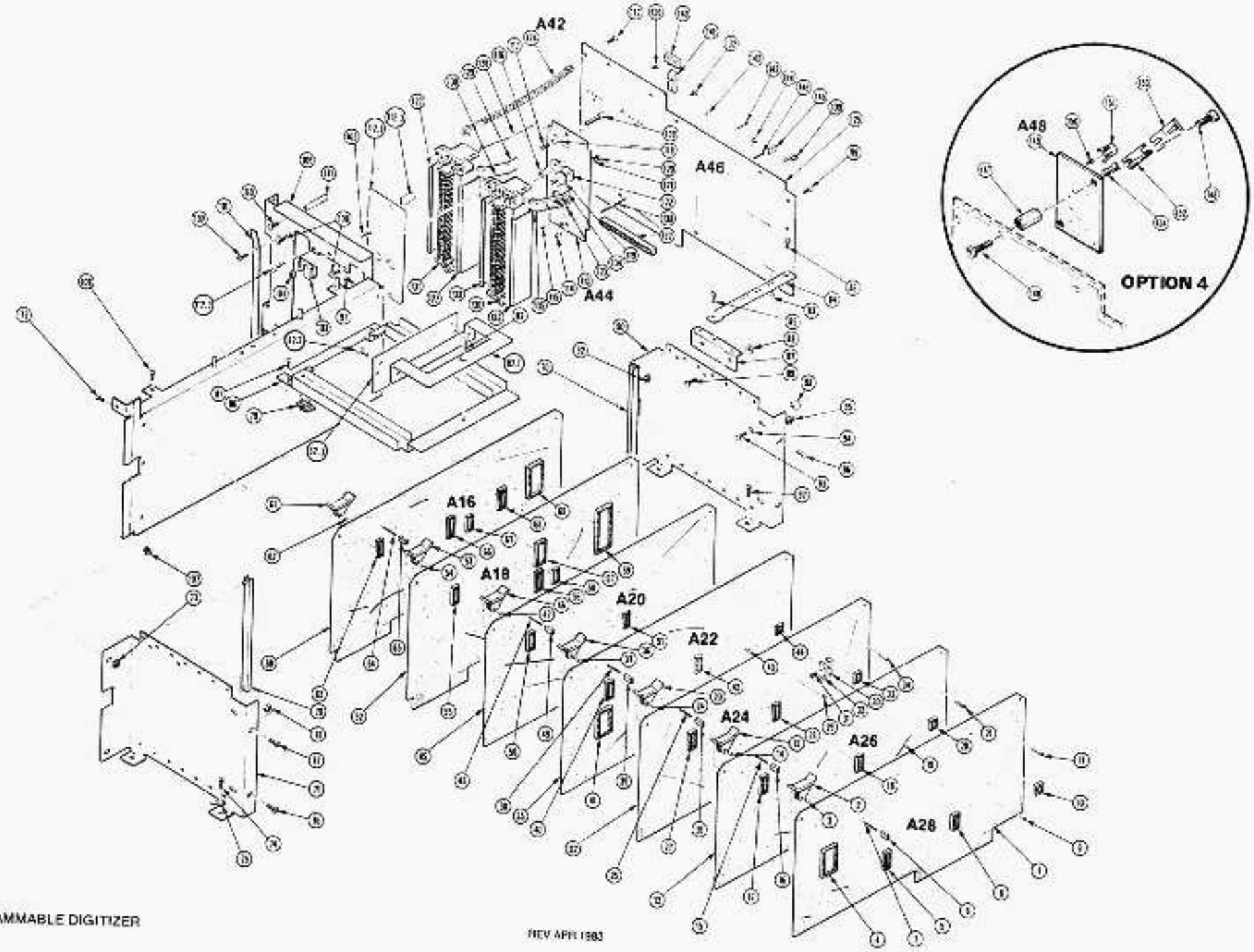
FIG. 1 FRONT AND REAR

Fig. & Index No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Dscont	Qty	12345 Name & Description	Mfr Code	Mfr. Part No.
1-1	200-2092-00			2	COVER,ACCESS:	80009	200-2092-00
	214-0803-02			6	.PIN ASSY,SEEGR:M/SPRING WASHER	80009	214-0803-02
-2	214-0803-01			6	..PIN,SECURING:0.46 DIA X 0.27,304R CD PL	80009	214-0803-01
-3	214-0804-00			6	..WASHER,SPR THSH:0.26 ID X 0.47 OD,SST	80009	214-0804-00
-4	366-0227-01			6	.STOP,CLP,KEN CL:	80009	366-0227-01
-5	366-1151-00			6	.CLAMP,RIM CLENC:	83553	ORDER BY DESCR
-6	351-0313-00			2	GUIDE,RACKMOUNT:19.218 L,FAIR (ATTACHING PARTS)	06666	ORDER BY DESCR
-7	210-0458-00			12	NUT,PL,ASSEM WA:8-32 X 0.344,STL CD PL (END ATTACHING PARTS)	78189	511-0818E0-00
-8	390-0572-00			1	CABINET SIDE:RIGHT (ATTACHING PARTS)	80009	390-0572-00
-9	211-0538-00			8	SCREW,MACHINE:6-32 X 0.312,FLH,100 DEG (END ATTACHING PARTS)	93907	ORDER BY DESCR
-10	390-0573-00			1	CABINET SIDE:LEFT (ATTACHING PARTS)	80009	390-0573-00
-11	211-0538-00			8	SCREW,MACHINE:6-32 X 0.312,FLH,100 DEG (END ATTACHING PARTS)	93907	ORDER BY DESCR
-12	366-1189-00			1	KNOB:ET,0.127 ID X 0.5 OD X 0.531	80009	366-1189-00
	213-0153-00			1	.SETSCREW:5-40 X 0.125,STL	TK0392	ORDER BY DESCR
-13	366-1319-02			1	KNOB:ET,0.075 ID X 0.28 OD X 0.32 H	80009	366-1319-02
	213-0075-00			1	.SETSCREW:4-40 X 0.094,STL	74445	ORDER BY DESCR
-14	366-1059-00			1	PUSH BUTTON:GRAY,0.227 OD X 0.3	80009	366-1059-00
-15	366-1077-00			2	KNOB:GRAY W/SETSCREW EACH KNOB INCLUDES:	80009	366-1077-00
	213-0246-00			1	.SETSCREW:5-40 X 0.094,STL	71159	ORDER BY DESCR
-16	200-0103-00			1	NUT,PLAIN,CKWRL:0.25-28 X 0.375"OD BRASS	80009	200-0103-00
-17	355-0507-00			1	STUD,SHOULDERED:BINDING POST,BRS NP (ATTACHING PARTS)	80009	355-0507-00
-18	210-0455-00			1	NUT,PLAIN,HEX:0.25-28 X 0.375,BRS NP	73743	3089-422
-19	210-0223-00			1	TERMINAL,LUG:0.26 ID,LOCKING,BRZ TIN PL (END ATTACHING PARTS)	86928	5441-37
-20	131-0771-00			1	CONN,RCPT,ELEC:2 MALE,2 PIN,PNL MT W/O KEY	91836	1504-2468
-21	210-0551-00			1	(ATTACHING PARTS) NUT,PLAIN,HEX:4-40 X 0.25,ST CD PL (END ATTACHING PARTS)	TK0435	ORDER BY DESCR
-22	----- -----			1	RESISTOR,VAR:(SEE R5600 REPL) (ATTACHING PARTS)		
-23	210-0583-00			2	NUT,PLAIN,HEX:0.25-32 X 0.312,BRS CD PL	73743	2X-20319-402
-24	210-0940-00			1	WASHER,FLAT:0.25 ID X 0.375 OD X 0.02,STL	12327	ORDER BY DESCR
-25	210-0046-00			1	WASHER,LOCK:0.261 ID,INTL,0.018 THK,STL (END ATTACHING PARTS)	77900	1214-05-00-0541C
-26	----- -----			1	RESISTOR,VAR:(SEE R5001 AND S5001 REPL) (ATTACHING PARTS)		
-27	210-0583-00			1	NUT,PLAIN,HEX:0.25-32 X 0.312,BRS CD PL	73743	2X-20319-402
-28	210-0940-00			1	WASHER,FLAT:0.25 ID X 0.375 OD X 0.02,STL	12327	ORDER BY DESCR
-29	210-004E-00			1	WASHER,LOCK:0.261 ID,INTL,0.018 THK,STL (END ATTACHING PARTS)	77900	1214-05-00-0541C
-30	----- -----			1	RESISTOR,VAR:(SEE R5002 AND S5002 REPL) (ATTACHING PARTS)		
-31	210-0583-00			1	NUT,PLAIN,HEX:0.25-32 X 0.312,BRS CD PL	73743	2X-20319-402
-32	210-0940-00			1	WASHER,FLAT:0.25 ID X 0.375 OD X 0.02,STL	12327	ORDER BY DESCR
-33	210-004E-00			1	WASHER,LOCK:0.261 ID,INTL,0.018 THK,STL (END ATTACHING PARTS)	77900	1214-05-00-0541C
-34	----- -----			1	CKT BOARD ASSY:MODE SW(SEE A10 REPL) (ATTACHING PARTS)		
-35	211-0116-00			3	SCR,ASSEM WSHR:4-40 X 0.312,PNH,BRS,NP,POZ (END ATTACHING PARTS) CKT BOARD ASSY INCLUDES:)	77900	ORDER BY DESCR
-36	344-0384-00			5	.CLIP,RETAINING:PUSH BUTTON,CU BE	80009	344-0384-00
-37	352-0388-01			5	.HOUSING,PB:1 SECTION,SIL GRAY PC	80009	352-0388-01
-38	366-1200-00			5	.PUSH BUTTON:WHITE,0.61 X 0.5 X 0.355	80009	366-1200-00
-39	136-0370-00			5	.LAMPHOLDER:T-1 1/4 LAMP	80009	136-0370-00
-40	210-0782-00			25	.EYELET,METALLIC:0.047 OD X 0.125 L	07707	5-6127
-41	214-0528-00			5	.SPRING,FLAT:0.562 X 0.312 X 0.08,CU BE	80009	214-0528-00
-42	131-0608-00			49	.TERMINAL,PIN:0.365 L X 0.025 BRZ GLD PL	22526	48283-036
-43	----- -----			1	CKT BOARD ASSY:PWR SW(SEE A12 REPL)		

Fig. & Index No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Dscont	Qty	12345 Name & Description	Mfr. Code	Mfr. Part No.
1-					(ATTACHING PARTS)		
-44	211-0116-00			2	SCR,ASSEM WSHR:4-40 X 0.312,PNH,BRS,NP,POZ	77900	ORDER BY DESCR
					(END ATTACHING PARTS)		
					CKT BOARD ASSY INCLUDES:		
-45	344-0104-00			1	.CLIP,RETAINING:PUSH BUTTON,CU BE	80009	344-0104-00
-46	352-0108-01			1	.HOUSING,PB:1 SECTION,STL GRAY PC	80009	352-0108-01
-47	366-1200-00			1	.PUSH BUTTON:WHITE,0.61 X 0.5 X 0.355	80009	366-1200-00
-48	136-0170-03			1	.LAMPHOLDER:1 T-1 1/4 LAMP	80009	136-0170-03
-49	210-0702-00			5	.EYELET,METALLIC:0.047 OD X 0.125 L	07707	S-6127
-50	214-0628-03			1	.SPRING,FLAT:0.562 X 0.312 X 0.08,CU BE	80009	214-0628-03
-51	131-0608-00			4	.TERMINAL,PIN:0.365 L X 0.025 SQ GLD PL	22526	48283-036
-52	333-2328-03			1	PANEL,FRONT:	80009	333-2328-03
					(ATTACHING PARTS)		
-53	213-0794-11			8	SCREW,CAP:4-40,0.312 L,HEX SKT,STL,CRS PL	80009	213-0794-11
					(END ATTACHING PARTS)		
-54	175-2104-00			1	CABLE ASSY,RF:50 OHM COAX,33.78 L	80009	175-2104-00
-55	175-2105-00			1	CABLE ASSY,RF:50 OHM COAX,33.8 L	80009	175-2105-00
-56	131-1124-00			2	CONN,RCPT,ELEC:BNC,FEMALE	24931	28JR155-1
-57	131-0818-00			1	CONN,RCPT,ELEC:BNC,FEMALE	91836	KC-19-153
-58	407-1997-00			1	BRKT,ELEC CONN:ALUMINUM	80009	407-1997-00
					(ATTACHING PARTS)		
-59	210-0457-00			2	NUT,PL,ASSEM WA:6-32 X 0.312,STL CD PL	78189	511-061800-00
-60	210-0802-00			2	WASHER,FLAT:0.15 ID X 0.312 OD X 0.032,STL	12327	ORDER BY DESCR
-61	211-0599-00			2	SCREW,MACHINE:6-32 X 0.312,FLH,100 DEG	83907	ORDER BY DESCR
					(END ATTACHING PARTS)		
-62	343-0706-01			2	RETAINER,LATCH:W/SPRING & INSERT	80009	343-0706-01
					(ATTACHING PARTS)		
-63	212-0079-00			2	SCREW,MACHINE:6-32 X 0.312,FLH,100 DEG,STL	TK0435	ORDER BY DESCR
					(END ATTACHING PARTS)		
-64	367-0236-01			1	HANDLE,LATCH:1.925,ALUMINUM	80009	367-0236-01
					(ATTACHING PARTS)		
-65	214-2853-00			1	PIN,STR,HDLS:0.125 DIA X 0.875 L,SST	TK0658	ORDER BY DESCR
					(END ATTACHING PARTS)		
-66	210-1279-00			2	WASHER,SPR THSH:0.128 ID X 0.25 OD X 0.003	86928	5806-8-1
-67	105-0756-00			1	CATCH,LATCH:	80009	105-0756-00
-68	214-2854-00			1	SPRING,HLCPS:0.188 OD X 0.69 L,CLE,MUS,SE P L	80009	214-2854-00
-69	407-2021-00			2	BRACKET,ANGLE:EXT,ALUMINUM	80009	407-2021-00
-70	337-2453-00			1	SHIELD,ELEC:EXT	80009	337-2453-00
-71	337-1543-00			1	SHLD GSKT,ELEK:EXT	80009	337-1543-00
-72	337-1542-00			1	SHLD GSKT,ELEK:EXT	80009	337-1542-00
	343-0000-00	B111580		1	CLAMP,LOOP:0.25 ID,PLASTIC	06915	8A CLEAR ROUND
					(ATTACHING PARTS)		
	211-0599-00	B111580		1	SCREW,MACHINE:6-32 X 0.375,FLH,100 DEG	TK0435	1593-300
	210-0457-00			1	NUT,PL,ASSEM WA:6-32 X 0.312,STL CD PL	78189	511-061800-00
	210-0863-00			1	WSHR,LOCK:CLAMP:0.187 ID LWN 0.5 W CLP	96837	C191
					(END ATTACHING PARTS)		
-73	426-1421-01	B010100	B111329	1	FRAME PANEL,CAB:FRONT,FINISHED	80009	426-1421-01
	426-1421-05	B111330		1	FRAME PANEL,CAB:FINISHED,FRONT	80009	426-1421-05
					(ATTACHING PARTS)		
-74	213-0760-00			4	SCREW,TPG,TF:8-32 X 0.875,SPCL TAPTITE,FILH	72228	ORDER BY DESCR
-75	210-0457-00			4	NUT,PL,ASSEM WA:6-32 X 0.312,STL CD PL	78189	511-061800-00
-76	211-0538-00			4	SCREW,MACHINE:6-32 X 0.312,FLH,100 DEG	93907	ORDER BY DESCR
					(END ATTACHING PARTS)		
-77	200-2093-00			2	COVER,HOLE:	80009	200-2093-00
-78	131-1315-01			3	CONN,RCPT,ELEC:BNC,FEMALE	80009	131-1315-01
-79	210-0255-00			1	TERMINAL,LUG:0.351 ID,LOCKING,BRS CD PL	12327	ORDER BY DESCR
-80	386-3733-00	B010100	B059999	1	PLATE,REAR:TO B059D	80009	386-3733-00
	333-2600-00	B060000	B100971	1	PANEL,REAR:	80009	333-2600-00
	333-2600-01	B100972	B101029	1	PANEL,REAR:	80009	333-2600-01
	333-2600-02	B101030		1	PANEL,REAR:	80009	333-2600-02
					(ATTACHING PARTS)		
-81	211-0504-00			2	SCREW,MACHINE:6-32 X 0.250,PNH,STL	TK0435	ORDER BY DESCR
					(END ATTACHING PARTS)		
-82	131-0346-01			1	CONN,RCPT,ELEC:24 CONTACT,FEMALE W/O FLOAT	02660	57-20240-2-398
					(ATTACHING PARTS)		
-83	129-0572-00	B010100	B100971	2	SPACER,POST:0.28 L,3.5 X 0.6 METRIC,AL	80009	129-0572-00

Fig. & Index No.	Tektronix Part No	Serial/Assembly No. Effective	Serial/Assembly No. Dscont	Qty	12345 Name & Description	Mfr. Code	Mfr. Part No
1-	129-0922-00	B100872	B111289	2	SPACER,POST:0.71,W/6-32 THD ONE END,AL,	80009	129-0922-00
	129-1003-00	B111290		2	SPACER,POST:0.705 L,6-32 EXT/#8.506.66 INT	80009	129-1003-00
-84	210-0008-00	B100872		2	WASHER,LOCK:#8 INTL,0.02 THK,STL (END ATTACHING PARTS)	77900	1208-00-00-0541C
-85	131-0818-00			6	CONN,RCPT,ELEC:BNC,FEMALE	91836	KC-19-153
-86	131-1124-00			2	CONN,RCPT,ELEC:BNC,FEMALE	24931	28JS155-1
-87	200-1528-00			1	COVER,ACCESS:CRT,REAR (ATTACHING PARTS)	80009	200-1528-00
-88	211-0008-00			3	SCREW,MACHINE:4-40 X 0.25,PNH,STL	93907	ORDER BY DESCR
-89	220-0601-00			3	NUT,PLAIN,CAP:4-40 X 0.25 HEX,BRS NP (END ATTACHING PARTS)	73743	93261-03
-90	337-1845-00			1	SHIELD,CRT:REAR	80009	337-1845-00
-91	131-0809-00			1	TERMINAL,STUD:0.545 L,4-40 INT THD (ATTACHING PARTS)	71279	57015'00105'9
-92	211-0007-00			1	SCREW,MACHINE:4-40 X 0.188,PNH,STL	0KB435	ORDER BY DESCR
-93	210-0994-00			1	WASHER,FLAT:0.125ID X 0.250D X 0.022 (END ATTACHING PARTS)	86928	8371-283-20
-94	131-0955-00			2	CONN,RCPT,ELEC:BNC,FEMALE	13511	31-279
-95	210-0255-00			1	TERMINAL,LUG:0.391 ID,LOCKING,BRS CD PL	12327	ORDER BY DESCR
-96	333-2329-00			1	PANEL,REAR: (ATTACHING PARTS)	80009	333-2329-00
-97	211-0504-00			4	SCREW,MACHINE:6-32 X 0.250,PNH,STL (END ATTACHING PARTS)	0KB435	ORDER BY DESCR
-98	426-1422-01			1	FRAME PANEL,CAB:REAR W/HDWR&GSKT (ATTACHING PARTS)	80009	426-1422-01
-99	213-0760-00			4	SCREW,TPG,TF:6-32 X 0.625,SPCL TORTITE,FLH	72220	ORDER BY DESCR
-100	210-0457-00			2	NUT,PL,ASSEM WA:6-32 X 0.312,STL CD PL	78189	511-0618OO-02
-101	211-0598-00			2	SCREW,MACHINE:6-32 X 0.312,FLH,100 DEG (END ATTACHING PARTS)	83907	ORDER BY DESCR
-102	348-0277-00	B010100	B010414	88	SHLD GSKT,ELEC:MESH TYPE,0.124 OD,BULK	80009	348-0277-00
	337-2897-00	B010415		89	SHLD GSKT,ELEC:CLOSTOFOAM,0.187W X 0.156H	07700	80-12102
-103	343-0013-00	B100777		1	CLAMP,LOOP:0.375 ID,PLASTIC (ATTACHING PARTS)	06915	6B CLEAR
-104	210-0457-00			1	NUT,PL,ASSEM WA:6-32 X 0.312,STL CD PL	78189	511-0618OO-02
-105	210-0863-00	B100777		1	WSHR,LOCK CLAMP:0.187 ID W/R 0.5 X CLP (END ATTACHING PARTS)	95987	C191
-106	426-1426-00			1	FRAME SECT,CAB.:TOP LEFT	80009	426-1426-00
-107	426-1425-00			1	FRAME SECT,CAB.:BOTTOM LEFT	80009	426-1425-00
-108	426-1428-00			1	FRAME SECT,CAB.:TOP RIGHT	80009	426-1428-00
-109	426-1427-00			1	FRAME SECT,CAB.:BOTTOM RIGHT	80009	426-1427-00

FIG. 2 CIRCUIT BOARDS



7912 AD PROGRAMMABLE DIGITIZER

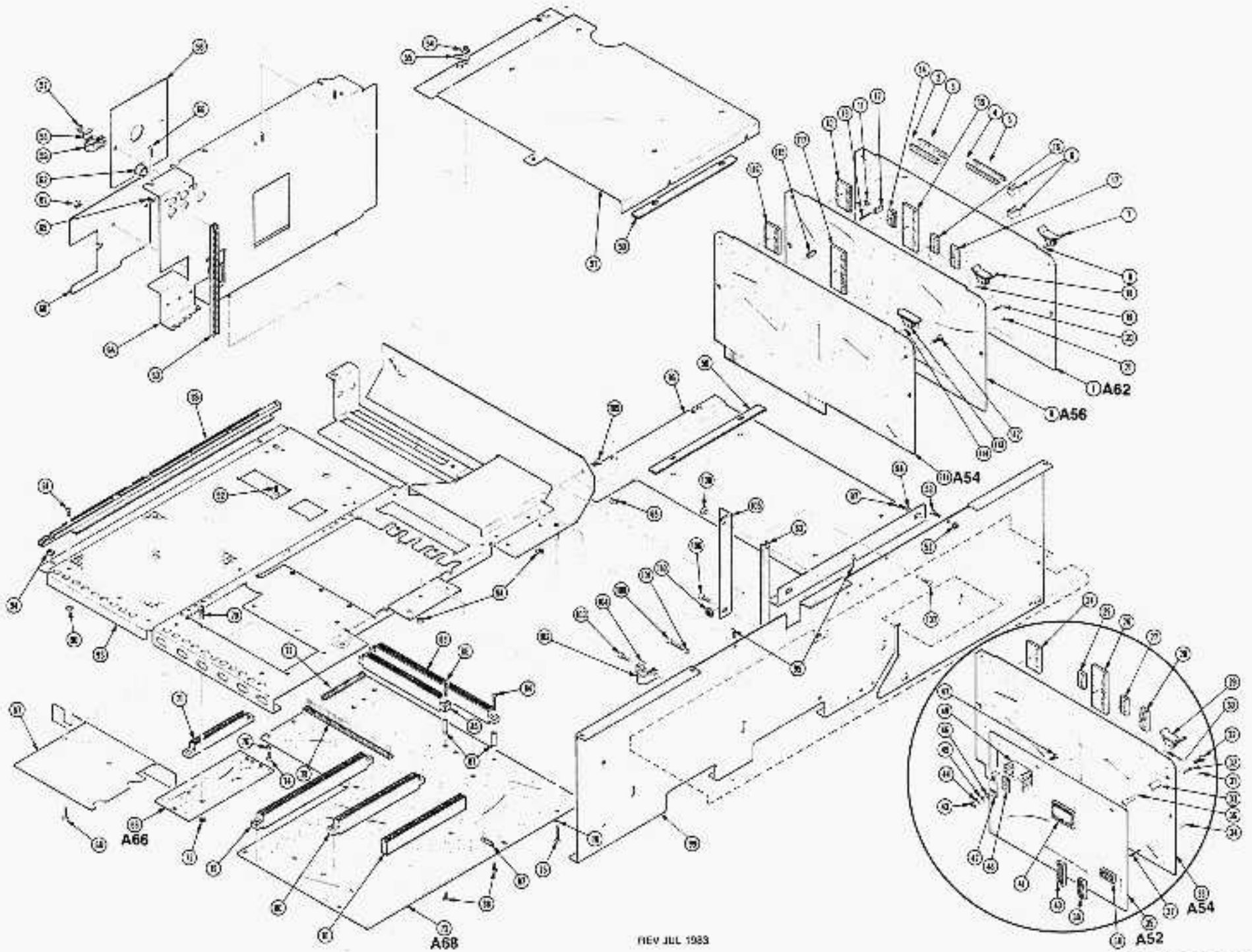
REV APR 1983

Fig. & Index No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Discont	Qty	12345 Name & Description	Mfr. Code	Mfr. Part No.
2-1	---- ----			1	CKT BOARD ASSY:VIDEO PROC(SEE A26 REPL)		
-2	105-0793-00			2	.EJECTOR,CKT BD:WHITE,PLASTIC	71279	415703B010020
-3	214-1337-00			2	.PIN,SPRING:0.25 L X 0.103 OD,STL CD PL	00096	ORDER BY DESCR
-4	136-0578-00	B010100	B010115	1	.SKT,PL-IN ELEC:MICROCIRCUIT,24 DIP,LOW PF	09922	DILB24P-108
-5	136-0260-02			1	.SKT,PL-IN ELEC:MICROCKT,16 DIP,PCB MT	09922	DILB16P-108T
-6	131-0605-00			6	.BUS,CONDUCTOR:SHUNT ASSEMBLY,BLECK	22526	65474-005
-7	131-0608-00			9	.TERMINAL,PIN:0.365 L X 0.025 BRI GLD PL	22526	48283-036
-8	136-0269-02		B010100	3	.SKT,PL-IN ELEC:MICROCKT,14 DIP,PCB MT	09922	DILB14P-108T
-9	136-0252-07	B010100	B050596	60	.SOCKET,PIN CONN:M/O DIMPLE	22526	75060-012
	136-0252-07	B050597	B111235	12	.SOCKET,PIN CONN:M/O DIMPLE	22526	75060-012
-10	136-0514-03		B010100	3	.SKT,PL-IN ELEC:MICROCIRCUIT,8 DIP	09922	DILB8P-108
-11	214-0579-03			15	.TERM,TEST POINT:BRS CD PL	80009	214-0579-03
-12	---- ----			1	CKT BOARD ASSY:RAMP GEN(SEE A29 REPL)		
-13	105-0793-03			2	.EJECTOR,CKT BD:WHITE,PLASTIC	71279	415703B010020
-14	214-1337-03			2	.PIN,SPRING:0.25 L X 0.103 OD,STL CD PL	00096	ORDER BY DESCR
-15	131-0608-00			26	.TERMINAL,PIN:0.365 L X 0.025 BRI GLD PL	22526	48283-036
-16	131-0993-00			8	.BUS,CONDUCTOR:SHUNT ASSEMBLY,BLECK	22526	65474-005
-17	136-0260-02		B010100	1	.SKT,PL-IN ELEC:MICROCKT,16 DIP,PCB MT	09922	DILB16P-108T
-18	136-0269-02		B010100	10	.SKT,PL-IN ELEC:MICROCKT,14 DIP,PCB MT	09922	DILB14P-108T
-19	136-0252-07	B010100	B050574	144	.SOCKET,PIN CONN:M/O DIMPLE	22526	75060-012
	136-0252-07	B050575	B111235	51	.SOCKET,PIN CONN:M/O DIMPLE	22526	75060-012
-20	136-0514-00		B010100	2	.SKT,PL-IN ELEC:MICROCIRCUIT,8 DIP	09922	DILB8P-108
-21	214-0579-00			13	.TERM,TEST POINT:BRS CD PL	80009	214-0579-00
-22	----- -----			1	CKT BOARD ASSY:GRATICULE GEN(SEE A24 REPL)		
-23	105-0793-00			2	.EJECTOR,CKT BD:WHITE,PLASTIC	71279	415703B010020
-24	214-1337-00			2	.PIN,SPRING:0.25 L X 0.103 OD,STL CD PL	00096	ORDER BY DESCR
-25	131-0608-00			3	.TERMINAL,PIN:0.365 L X 0.025 BRI GLD PL	22526	48283-036
-26	131-0993-00			1	.BUS,CONDUCTOR:SHUNT ASSEMBLY,BLECK	22526	65474-005
-27	136-0260-02		B010100	7	.SKT,PL-IN ELEC:MICROCKT,16 DIP,PCB MT	09922	DILB16P-108T
-28	136-0269-02		B010100	17	.SKT,PL-IN ELEC:MICROCKT,14 DIP,PCB MT	09922	DILB14P-108T
-29	136-0252-07	B010100	B050584	105	.SOCKET,PIN CONN:M/O DIMPLE	22526	75060-012
	136-0252-07	B050585	B111235	30	.SOCKET,PIN CONN:M/O DIMPLE	22526	75060-012
-30	200-0945-01			1	.COVER HALF,XSTR:DUAL 10-18 X 2-56 END AL .(ATTACHING PARTS)	80009	200-0945-01
-31	211-0001-00			1	.SCREW,MACHINE:2-56 X 0.25,PNH,STL .(END ATTACHING PARTS)	TK0435	ORDER BY DESCR
-32	200-0945-00			1	.COVER HALF,XSTR:DUAL 10-18 ALUMINUM	80009	200-0945-00
-33	136-0514-00		B010100	1	.SKT,PL-IN ELEC:MICROCIRCUIT,8 DIP	09922	DILB8P-108
-34	214-0579-00			9	.TERM,TEST POINT:BRS CD PL	80009	214-0579-00
-35	---- ----			1	CKT BOARD ASSY:TRANSLATER(SEE A22 REPL)		
-36	105-0793-00			2	.EJECTOR,CKT BD:WHITE,PLASTIC	71279	415703B010020
-37	214-1337-00			2	.PIN,SPRING:0.25 L X 0.103 OD,STL CD PL	00096	ORDER BY DESCR
-38	131-0608-00	B010100	B069998	18	.TERMINAL,PIN:0.365 L X 0.025 BRI GLD PL	22526	48283-036
	131-0608-00	B070000		21	.TERMINAL,PIN:0.365 L X 0.025 BRI GLD PL	22526	48283-036
-39	131-0993-00	B010100	B069599	6	.BUS,CONDUCTOR:SHUNT ASSEMBLY,BLACK	22526	65474-005
	131-0608-00	B070000		7	.TERMINAL,PIN:0.365 L X 0.025 BRI GLD PL	22526	48283-036
-40	136-0260-02	B010100	B050573	5	.SKT,PL-IN ELEC:MICROCKT,16 DIP,PCB MT	09922	DILB16P-108T
-41	136-0578-00	B010100	B050573	1	.SKT,PL-IN ELEC:MICROCIRCUIT,24 DIP,LOW PF	09922	DILB24P-108
-42	136-0269-02	B010100	B050573	3	.SKT,PL-IN ELEC:MICROCKT,14 DIP,PCB MT	09922	DILB14P-108T
-43	136-0252-07	B010100	B050573	9	.SOCKET,PIN CONN:M/O DIMPLE	22526	75060-012
	136-0252-07	B100705		3	.SOCKET,PIN CONN:M/O DIMPLE	22526	75060-012
-44	136-0514-00		B010100	6	.SKT,PL-IN ELEC:MICROCIRCUIT,8 DIP	09922	DILB8P-108
-45	----- -----			1	CKT BOARD ASSY:DATA BUFFER(SEE A20 REPL)		
-46	105-0793-00			2	.EJECTOR,CKT BD:WHITE,PLASTIC	71279	415703B010020
-47	214-1337-00			2	.PIN,SPRING:0.25 L X 0.103 OD,STL CD PL	00096	ORDER BY DESCR
-48	131-0608-00	B010100	B089999	13	.TERMINAL,PIN:0.365 L X 0.025 BRI GLD PL	22526	48283-036
	131-0608-00	B090000		18	.TERMINAL,PIN:0.365 L X 0.025 BRI GLD PL	22526	48283-036
-49	131-0993-00	B010100	B089999	3	.BUS,CONDUCTOR:SHUNT ASSEMBLY,BLACK	22526	65474-005
	131-0993-00	B090000		4	.BUS,CONDUCTOR:SHUNT ASSEMBLY,BLACK	22526	65474-005
-50	136-0260-02	B010100	B050595	18	.SKT,PL-IN ELEC:MICROCKT,16 DIP,PCB MT	09922	DILB16P-108T
	136-0260-02	B050596	B100705	8	.SKT,PL-IN ELEC:MICROCKT,16 DIP,PCB MT	09922	DILB16P-108T
	136-0729-00	B100707	B111235	8	.SKT,PL-IN ELEC:MICROCKT,16 CONTACT	09922	DILB16P-108T
	136-0729-00	B111238		5	.SKT,PL-IN ELEC:MICROCKT,16 CONTACT	09922	DILB16P-108T
-51	136-0269-02		B010100	1	.SKT,PL-IN ELEC:MICROCKT,14 DIP,PCB MT	09922	DILB14P-108T
-52	----- -----			1	CKT BOARD ASSY:CONTROL MUX (SEE A18 REPL)		
-53	105-0793-00			2	.EJECTOR,CKT BD:WHITE,PLASTIC	71279	415703B010020
-54	214-1337-00			2	.PIN,SPRING:0.25 L X 0.103 OD,STL CD PL	00096	ORDER BY DESCR

Fig. & Index No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Descnt	Qty	12345 Name & Description	Mfr. Code	Mfr. Part No.
2-55	136-0260-02	B010100	B100811	5	..SKT,PL-IN ELEC:MICROCKT,16 DIP,PCB MT	09922	DILB16P-108T
	136-0729-00	B100812	B111295	5	.SKT,PL-IN ELEC:MICROCKT,16 CONTACT	09922	DILB16P-108T
-56	136-0634-00		B010100	4	.SKT,PL-IN ELEC:MICROCIRCUIT,20 DIP	09922	DILB20P-108
-57	136-0821-00	B010100	B100811	22	.SKT,PL-IN ELEC:MICROCIRCUIT,22 DIP,LOW PF	09922	DILB22P-108
	136-0754-00	B100812	B111295	14	.SKT,PL-IN ELEC:MICROCIRCUIT,22 DIP	09922	DILB22P-108
-58	136-1269-02		B010100	6	.SKT,PL-IN ELEC:MICROCKT,14 DIP,PCB MT	09922	DILB14P-108T
-59	136-1623-00	B010100	B100811	4	..SKT,PL-IN ELEC:CMPNT,40 DIP,LOW PROFILE	09922	DILB40P-108
	136-0757-00	B100812		4	.SKT,PL-IN ELEC:MICROCIRCUIT,40 DIP	09922	DILB40P-108
-60	---- ----			1	CKT BOARD ASSY:MEM CONTROL(SEE A15 REPL)		
-61	105-0793-00			2	.EJECTOR,CKT BD:WHITE,PLASTIC	71279	615T036010020
-62	214-1537-00			2	.PIN,SPRING:0.25 L X 0.103 OD,STL CD PL	00084	ORDER BY DESCR
-63	136-0260-02		B010100	12	.SKT,PL-IN ELEC:MICROCKT,16 DIP,PCB MT	09922	DILB16P-108T
-64	131-0608-00			15	.TERMINAL,PIN:0.365 L X 0.025 BRZ GLD PL	22526	48283-036
-65	131-0993-00			5	.BUS,CONDUCTOR:SHUNT ASSEMBLY,BLACK	22526	65474-005
-66	136-0634-00	B010100	B100778	1	.SKT,PL-IN ELEC:MICROCIRCUIT,20 DIP	09922	DILB20P-108
	136-0729-00	B100774		1	.SKT,PL-IN ELEC:MICROCKT,16 CONTACT	09922	DILB16P-108T
-67	136-0269-02			1	.SKT,PL-IN ELEC:MICROCKT,14 DIP,PCB MT	09922	DILB14P-108T
-68	136-0670-00	B010100	B080713	11	.SKT,PL-IN ELEC:MICROCIRCUIT,18 DIP,LOW PF	09922	DILB18P-108
	136-0755-00	B080714		10	.SKT,PL-IN ELEC:MICROCIRCUIT,18 DIP	09922	DILB18P-108
-69	136-0634-00	B010100	B080713	3	.SKT,PL-IN ELEC:MICROCIRCUIT,20 CONTACT	09922	DILB20P-108
	136-0755-00	B080714		3	.SKT,PL-IN ELEC:MICROCIRCUIT,28 DIP	09922	DILB28P-108
-70	351-0087-00			14	GUIDE,CKT BOARD:4.75 L,NAT ACETAL	80009	351-0087-00
-71	441-1434-00			1	CHAS,DIGITIZER:CIRCUIT BOARD (ATTACHING PARTS)	80009	441-1434-00
-72	211-0538-00			2	SCREW,MACHINE:6-32 X 0.312,FLH,100 DEG	93907	ORDER BY DESCR
-73	210-0457-00			2	NUT,PL,ASSEM WA:6-32 X 0.312,STL CD PL	78189	511-041800-00
-74	211-0504-00			2	SCREW,MACHINE:6-32 X 0.250,PNH,STL	TK0435	ORDER BY DESCR
-75	210-0202-00			1	TERMINAL,LUG:0.146 ID,LOCKING,.032 TIN PL	89536	O-373-150-2
-76	211-0088-00			1	SCREW,MACHINE:4-40 X 0.25,PNH,STL	93907	ORDER BY DESCR
-77	211-0101-00			1	SCREW,MACHINE:4-40 X 0.25,FLH,100 DEG,STL	TK0435	ORDER BY DESCR
-78	210-0586-00			2	NUT,PL,ASSEM WA:4-40 X 0.25,STL CD PL (END ATTACHING PARTS)	78189	211-041800-00
-79	352-0589-00			14	HOLDER,CKT BD:POLYURETHANE	80009	352-0589-00
-80	407-2124-00			1	BRACKET,SUPPORT:ALUMINUM (ATTACHING PARTS)	80009	407-2124-00
-81	211-0008-00	B010100	B040549	2	SCREW,MACHINE:4-40 X 0.25,PNH,STL	93907	ORDER BY DESCR
	211-0504-00	B040549		2	SCREW,MACHINE:6-32 X 0.250,PNH,STL	TK0435	ORDER BY DESCR
-82	211-0504-00	B010100	B029999	1	SCREW,MACHINE:6-32 X 0.250,PNH,STL	TK0435	ORDER BY DESCR
	211-0538-00	B030000		1	SCREW,MACHINE:6-32 X 0.312,FLH,100 DEG (END ATTACHING PARTS)	93907	ORDER BY DESCR
-82.1	407-2508-00	B030000		1	BRACKET,CMPNT:SHIELD (ATTACHING PARTS)	80009	407-2508-00
-82.2	211-0008-00	B030000		2	SCREW,MACHINE:4-40 X 0.25,PNH,STL (END ATTACHING PARTS)	93907	ORDER BY DESCR
-82.3	388-6977-00	B030000		1	CIRCUIT BOARD:SHIELD	80009	388-6977-00
-83	386-1557-00	B010100	B100828	6	SPACER,CKT BD:0.29 H,ACETAL	80009	386-1557-00
	386-1557-00	B100829		4	SPACER,CKT BD:0.29 H,ACETAL	80009	386-1557-00
	386-1556-00	B100829		2	SUPPORT,CKT BD:0.215 H,ACETAL	80009	386-1556-00
-84	381-0393-00			1	BAR,SUPPORT:CIRCUIT BOARD,ALUMINUM (ATTACHING PARTS)	80009	381-0393-00
-85	211-0504-00			1	SCREW,MACHINE:6-32 X 0.250,PNH,STL	TK0435	ORDER BY DESCR
-86	211-0538-00			1	SCREW,MACHINE:6-32 X 0.312,FLH,100 DEG (END ATTACHING PARTS)	93907	ORDER BY DESCR
-87	407-2041-00			1	BRACKET,CKT BD:ALUMINUM (ATTACHING PARTS)	80009	407-2041-00
-88	210-0457-00			2	NUT,PL,ASSEM WA:6-32 X 0.312,STL CD PL	78189	511-041800-00
-89	211-0507-00			2	SCREW,MACHINE:6-32 X 0.312,PNH,STL (END ATTACHING PARTS)	83385	ORDER BY DESCR
-90	441-1389-00			1	CHASSIS,SUPPORT:ETCHED CIRCUIT BOARD (ATTACHING PARTS)	80009	441-1389-00
-91	211-0538-00			1	SCREW,MACHINE:6-32 X 0.312,FLH,100 DEG	93907	ORDER BY DESCR
-92	210-0457-00			2	NUT,PL,ASSEM WA:6-32 X 0.312,STL CD PL	78189	511-041800-00
-93	211-0007-00			2	SCREW,MACHINE:4-40 X 0.188,PNH,STL	TK0435	ORDER BY DESCR
-94	210-0994-00			2	WASHER,FLAT:0.125ID X 0.250 X 0.032	86928	A371-289-20
-95	210-0586-00			2	NUT,PL,ASSEM WA:4-40 X 0.25,STL CD PL	78189	211-041800-00
-96	211-0101-00			2	SCREW,MACHINE:4-40 X 0.25,FLH,100 DEG,STL	TK0435	ORDER BY DESCR
-97	211-0504-00			2	SCREW,MACHINE:6-32 X 0.250,PNH,STL	TK0435	ORDER BY DESCR

Fig. & Index No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Dscont	Qty	12345 Name & Description	Mfr Code	Mfr Part No
2-					(END ATTACHING PARTS)		
-98	129-0517-00			2	SPACER,POST:0.25 L,4-40 THRU,AL,0.25 HEX	80009	129-0517-00
					(ATTACHING PARTS)		
-99	211-0037-00			2	SCREW,MACHINE:4-40 X 0.188,PNH,STL	TK0435	ORDER BY DESCR
					(END ATTACHING PARTS)		
-100	343-0089-00			4	CLAMP,CABLE:0.3 DIA,PLASTIC	80009	343-0089-00
-101	131-0800-00	B010100	B101060	2	CONTACT,ELEC:PLUG-IN GND,BE NI AU TR	80009	131-0800-00
	131-0800-03	B101061		2	CONTACT,ELEC:PLUG-IN GND,BE NI AU TR	80009	131-0800-03
					(ATTACHING PARTS)		
-102	213-0138-00			4	SCREW,TPG,TF:4-24 X 0.188,TYPE B,PNH,STL	TK0435	ORDER BY DESCR
					(END ATTACHING PARTS)		
-103	131-0930-00			2	CONTACT,ELEC:PLUG-IN GND,CU BE WERT TYPD	80009	131-0930-00
					(ATTACHING PARTS)		
-104	210-0586-00			2	NUT,PL,ASSEM WA:4-40 X 0.25,STL CD PL	78189	211-041800-00
-105	211-0008-00			1	SCREW,MACHINE:4-40 X 0.25,PNH,STL	93907	ORDER BY DESCR
					(END ATTACHING PARTS)		
-106	441-1374-03	B010100	B040546	1	CHAS,PL-IN UNIT:	80009	441-1374-03
	441-1374-01	B040549		1	CHAS,PL-IN UNIT:	80009	441-1374-01
					(ATTACHING PARTS)		
-107	210-0457-00			4	NUT,PL,ASSEM WA:6-32 X 0.312,STL CD PL	78189	511-061800-00
-108	211-0538-00			4	SCREW,MACHINE:6-32 X 0.312,FLH,100 DEG	93907	ORDER BY DESCR
-109	213-0253-00			6	SCREW,TPG,TF:4-24 X 0.375,SPCL TYPE,PNH,STL	83385	ORDER BY DESCR
-110	211-0007-00			2	SCREW,MACHINE:4-40 X 0.188,PNH,STL	TK0435	ORDER BY DESCR
					(END ATTACHING PARTS)		
-111	129-0427-00			2	SPACER,POST:1.056 L,4-40,AL,0.188 HEX	80009	129-0427-00
					(ATTACHING PARTS)		
-112	211-0007-00			2	SCREW,MACHINE:4-40 X 0.188,PNH,STL	TK0435	ORDER BY DESCR
					(END ATTACHING PARTS)		
-112.1	337-2694-00	B050584		1	SHIELD,ELEC:CIRCUIT BOARD	80009	337-2694-00
					(ATTACHING PARTS)		
-112.2	211-0008-00	B050584		4	SCREW,MACHINE:4-40 X 0.25,PNH,STL	93907	ORDER BY DESCR
-112.3	220-0449-00	B050584		2	NUT,SLEEVE:4-40 X 0.187 HEX,BRS CD PL	80009	220-0449-00
					(END ATTACHING PARTS)		
-113	------ ------			1	CKT BOARD ASSY:VERT INTFC(SEE 044 REPL)		
-114	136-0263-04			5	.SOCKET,PIN TERM:U/W 0.025 SQ PIN	22526	75377-021
-115	136-0252-07	B010100	B111235	12	.SOCKET,PIN CONN:W/O DIMPLE	22526	75060-012
-116	131-1003-00			6	.CONN,RCPT,ELEC:CKT BD MT,3 PRONG	80009	131-1003-00
-117	211-0155-00			2	.SCREW,EXT BLV:4-40 X 0.375,PNH,SST,POZ	80009	211-0155-00
-118	361-0238-00			2	.SPACER,POST:0.433 L,0.25 OD	80009	361-0238-00
-119	------ ------			2	.MICROCIRCUIT,LI:(SEE U4625 AND U4685 REPL)		
					.(ATTACHING PARTS)		
-120	210-0406-00			2	.NUT,PLAIN,HEX:4-40 X 0.188,BRS CD PL	73743	12161-50
-121	210-0408-00			2	.WASHER,FLAT:0.125 OD X 0.2 OD X 0.035,FIB	88928	5602N032(BLACK)
					.(END ATTACHING PARTS)		
-122	131-1429-00			1	.CONTACT,ELEC:MICROCKT GND,DUAL,BRS TIN PL	80009	131-1429-00
-123	136-0269-02	B010100	B101002	1	.SKT,PL-IN ELEK:MICROCKT,16 DIP,PCB MT	09922	DILB16P-108E
	136-0728-00	B101003	B111235	1	.SKT,PL-IN ELEK:MICROCKT,16 CONTACT	09922	DILB16P-108
	672-0688-03	B010100	B100836	1	CIRCUIT BD ASSY:PLUG-IN INTFC	80009	672-0688-03
	672-0688-01	B100837	B100972	1	CIRCUIT BD ASSY:PLUG-IN INTERFACE	80009	672-0688-01
	672-0688-02	B100973		1	CIRCUIT BD ASSY:PLUG-IN INTFC	80009	672-0688-02
	672-0734-02	B010100	B100972	1	CIRCUIT BD ASSY:PLUG-IN INTERFACE	80009	672-0734-02
					(OPTION 04 ONLY)		
	672-0734-01	B100973		1	CIRCUIT BD ASSY:PLUG-IN INTERFACE	80009	672-0734-01
					(OPTION 04 ONLY)		
-124	------ ------			1	.CKT BOARD ASSY:SD CNN FILLON(SEE 042 REPL)		
-125	------ ------			1	.CKT BOARD ASSY:PLUG-IN INTFC(SEE 048 REPL)		
	131-0767-05			1	..CONN,RCPT,ELEC:CKT BD,15/30 CONTACT	80009	131-0767-05
					..(ATTACHING PARTS)		
-126	213-0232-00			2	..SCREW,TPG,TF:2-32 X 0.312,TYPE B,PNH,STL	01536	ORDER BY DESCR
					..(END ATTACHING PARTS)		
					..CONNECTOR INCLUDES:		
-127	200-0950-00			2	...SHLD,ELEC CONN:PLUG-IN CKT BD,PLASTIC	80009	200-0950-00
-128	214-1665-00			1	...SPRING,FLAT:2.35 X 0.041 MUSIC WIRE	80009	214-1665-00
-129	131-0727-00			32	...CONTACT,ELEC:CKT BD CONN,PH BRZ GOLD PL	80009	131-0727-00
-130	131-0726-00			32	...CONTACT,ELEC:CKT BD CONN,PH BRZ GOLD PL	80009	131-0726-00
-131	204-0365-02			1	...CONN BODY,RCPT:PLUG-IN CIRCUIT BOARD	80009	204-0365-02
	131-0767-07			1	..CONN,RCPT,ELEC:CKT BD,70 CONTACT	80009	131-0767-07

Fig. & Index No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Dscont	Qty	12345 Name & Description	Mfr Code	Mfr. Part No.
2-					..(ATTACHING PARTS)		
-152	213-0232-00			2	..SCREW,TPG,TF:2-32 X 0.312,TYPE B,PNH,STL	01436	0606B 81 OESCR
					..(END ATTACHING PARTS)		
					..CONNECTOR INCLUDES:		
-153	200-0950-00			2	...SHLD,ELEC CONN:PLUG-IN CKT BD,PLASTIC	80009	200-0950-00
-154	131-0727-00			35	...CONTACT,ELEC:CKT BD CONN,PH BRZ GOLD PL	80009	131-0727-00
-155	131-0726-00			35	...CONTACT,ELEC:CKT BD CONN,PH BRZ GOLD PL	80009	131-0726-00
-156	204-0365-02			1	...CONN BODY,RCPT:PLUG-IN CIRCUIT BOARD	80009	204-0365-02
-157	131-2783-00	B010100	B030758	5	..CONN,RCPT,ELEC:CKT BD,2 X 10 PIN,SIDE ENT	00779	5-87729-6
					..#		
	131-2818-00	B030757		1	..CONN,RCPT,ELEC:CKT BD,2 X 45,0.1 SPACING,	22526	65000-070
					.. HORIZ		
-158	131-0532-00			4	..TERMINAL,PIN:0.885 L X 0.025 SQ BRS	22526	47333
-159	351-0227-00			2	..POST,CKT BD MTG:0.84 L X 0.25 OD,BRS	80009	351-0227-00
-160	136-0260-02	B010100	B050677	2	..SKT,PL-IN ELEC:MICROCKT,14 DIP,PCB MT	09922	DILB14P-108
-161	136-0260-02	B010100	B050677	5	..SKT,PL-IN ELEC:MICROCKT,16 DIP,PCB MT	09922	DILB16P-108
	136-0260-02	B050678	B100815	4	..SKT,PL-IN ELEC:MICROCKT,16 DIP,PCB MT	09922	DILB16P-108
	136-0729-00	B100816	B111235	4	..SKT,PL-IN ELEC:MICROCKT,16 CONTACT	09922	DILB16P-108
-162	136-0252-07	B010100	B050677	105	..SOCKET,PIN CONN:M/D SINGLE	22526	75060-012
	136-0252-07	B050678	B111235	9	..SOCKET,PIN CONN:M/D SINGLE	22526	75060-012
	136-0252-07	B111236		7	..SOCKET,PIN CONN:M/D SINGLE	22526	75060-012
-163	214-0579-00			5	..TERM,TEST POINT:BRS CD PL	98291	214-0579-00
-164	131-1003-00			6	..CONN,RCPT,ELEC:CKT BD MT,3 PRONG	80009	131-1003-00
-165	131-0959-00			2	..BUS,CONDUCTOR:SHUNT ASSEMBLY,BLACK	22526	65474-035
-166	131-0608-00			6	..TERMINAL,PIN:0.365 L X 0.025 BRZ GLD PL	22526	48283-036
	175-2450-00			1	..LEAD,ELECTRICAL:22 AWG,6.0 L,9-2	80009	175-2450-00
	175-7841-00	B100373		1	..CABLE ASSY,RF:50 OHM COAX,4.0 L,9-#	80009	175-7841-00
					..(P122 TO J626)		
					OPTION 04		
-167	129-0353-00			2	.SPACER,POST:0.385 L,4-40 THRD,DL,0.188 HEX	80009	129-0353-00
					.(ATTACHING PARTS)		
-168	211-0007-00			4	.SCREW,MACHINE:4-40 X 0.188,PNH,STL	18damage	0606B 81 OESCR
					.(END ATTACHING PARTS)		
-169	------ ------			1	.CKT BOARD ASSY:VERT ATTEN(SEE 040 REPL)		
-170	136-0252-07			4	..SOCKET,PIN CONN:M/D SINGLE	22526	75060-012
-171	131-1003-00			4	..CONN,RCPT,ELEC:CKT BD MT,3 PRONG	80009	131-1003-00
-172	307-1020-00			2	..ATTENUATOR,FXD:2X,50 OHM	80009	307-1020-00
-173	344-0248-00			2	..CLIP,ATTENUATOR:0.886 L,CU BE	80009	344-0248-00
-174	214-1797-00			4	..PIN,ATTEN CLIP:	80009	214-1797-00



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7912 AD PROGRAMMABLE DIGITIZER

FIG. 3 CHASSIS

Fig. & Index No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Deconi	Qty	12345 Name & Description	Mfr. Code	Mfr. Part No.
3-1	------ ------			1	CKT BOARD ASSY:POWER CONN(SEE A62 REPL)		
-2	131-1011-00			1	.TERM SET,PIN:10,0.025 SQ ON 0.15 CTR	22526	85565-110
-3	131-1012-00			1	.TERM SET,PIN:10,0.025 SQ ON 0.15 CTR	22526	85563-110
-4	131-1425-00			1	.CONN,RCPT,ELEC:RTANG HEADER,1 X 36,0.1 SP	22526	85521-136
-5	131-1426-00			1	.CONN,RCPT,ELEC:RTANGLE HEADER,1 X 36,0.1 S P#CING	22526	85524-136
-6	344-0288-00			16	.CLIP,ELECTRICAL:FUSE,SPR BRS	75915	102074
-7	105-0793-00			2	.EJECTOR,CKT BD:WHITE,PLASTIC	71279	415703610020
-8	214-1337-00			2	.PIN,SPRING:0.25 L X 0.103 OD,STL CD PL	00000	ORDER BY DESCR
-9	------ ------			1	CKT BOARD ASSY:GPIB INTFC(SEE A56 REPL)		
-10	136-0578-00	B010100	B080713	1	.SKT,PL-IN ELEK:MICROCIRCUIT,24 DIP,LOW PF	09922	DILB24P-108
	136-0751-00	B080714	B100999	1	.SKT,PL-IN ELEK:MICROCKT,24 PIN	09922	DILB24P108
-11	131-1003-00			3	.CONN,RCPT,ELEC:CKT BD WI,3 P#DNG	80009	131-1003-00
-12	131-0893-00			2	.BUS,CONDUCTOR:SHUNT ASSEMBLY,BLOCK	22526	65474-005
-13	131-0608-00			6	.TERMINAL,PIN:0.365 L X 0.025 SQ BRZ GLD PL	22526	48283-036
-14	136-0269-02		B010129	27	.SKT,PL-IN ELEK:MICROCKT,14 DIP,PCB MT	09922	DILB14P-108T
-15	136-0623-00	B010130	B070679	1	.SKT,PL-IN ELEK:CMPNT,40 DIP,LOW PROFILE	09922	DILB40P-108
-16	136-0260-02	B010130	B050560	4	.SKT,PL-IN ELEK:MICROCKT,16 DIP,PCB MT	09922	DILB16P-108T
	136-0260-02	B050561		2	.SKT,PL-IN ELEK:MICROCKT,16 DIP,PCB MT	09922	DILB16P-108T
-17	136-0634-00		B010100	3	.SKT,PL-IN ELEK:MICROCIRCUIT,20 DIP	09922	DILB20P-108
-18	105-0793-00			2	.EJECTOR,CKT BD:WHITE,PLASTIC	71279	415703610020
-19	214-1337-00			2	.PIN,SPRING:0.25 L X 0.103 OD,STL CD PL	00000	ORDER BY DESCR
-20	214-0579-00			7	.TERM,TEST POINT:BRS CD PL	80009	214-0579-00
-21	136-0252-07	B010100	B050500	6	.SOCKET,PIN CONN:W/D DIMPLE	22526	75060-212
	136-0252-07	B111211		3	.SOCKET,PIN CONN:W/D DIMPLE	22526	75060-212
	672-0960-00	B070726	B100825	1	CIRCUIT BD ASSY:APEV/MEMORY	80009	672-0960-00
	672-0960-01	B100826	B100999	1	CIRCUIT BD ASSY:APEV/MEMORY (ATTACHING PARTS)	80009	672-0960-01
-22	211-0155-00			4	SCREW,EXT RLV:4-40 X 0.375,PNH,SST,POZ (END ATTACHING PARTS)	80009	211-0155-00
-23	------ ------			1	.CKT BOARD ASSY:MPU(SEE A66 REPL)		
-24	136-0578-00		B010100	1	..SKT,PL-IN ELEK:MICROCIRCUIT,24 DIP,LOW PF	09922	DILB24P-108
-25	136-0269-02		B010100	21	..SKT,PL-IN ELEK:MICROCKT,14 DIP,PCB MT	09922	DILB14P-108T
-26	136-0623-00	B010130	B070679	2	..SKT,PL-IN ELEK:CMPNT,40 DIP,LOW PROFILE	09922	DILB40P-108
	136-0623-00	B070680	B100793	1	..SKT,PL-IN ELEK:CMPNT,40 DIP,LOW PROFILE	09922	DILB40P-108
	136-0757-00	B100794		1	..SKT,PL-IN ELEK:MICROCIRCUIT,40 DIP	09922	DILB40P-108
-27	136-0260-02	B010100	B040538	1	..SKT,PL-IN ELEK:MICROCKT,16 DIP,PCB MT	09922	DILB16P-108T
-28	136-0634-00		B010100	9	..SKT,PL-IN ELEK:MICROCIRCUIT,20 DIP	09922	DILB20P-108
-29	105-0793-00			2	..EJECTOR,CKT BD:WHITE,PLASTIC	71279	415703610020
-30	214-1337-00			2	..PIN,SPRING:0.25 L X 0.103 OD,STL CD PL	00000	ORDER BY DESCR
-31	136-0252-07	B010100	B100825	9	..SOCKET,PIN CONN:W/D DIMPLE	22526	75060-212
-32	214-0579-00	B010100	B100825	6	..TERM,TEST POINT:BRS CD PL	80009	214-0579-00
	214-0579-00	B100826		11	..TERM,TEST POINT:BRS CD PL	80009	214-0579-00
-33	361-0238-00			6	..SPACER,POST:0.433 L,0.25 OD	80009	361-0238-00
-34	136-0261-04			30	..SOCKET,PIN TERM:W/W 0.025 SQ PIN	22526	75377-001
	131-0608-00	B100826		3	..TERMINAL,PIN:0.365 L X 0.025 SQ BRZ GLD PL	22526	48283-036
	131-0893-00	B100826		1	..BUS,CONDUCTOR:SHUNT ASSEMBLY,BLOCK	22526	65474-005
-35	------ ------			1	.CKT BOARD ASSY:MPU MEMORY(SEE A62 REPL)		
-36	351-0188-00			6	..POST,CKT BD MTG:0.65 INCH LONG	80009	351-0188-00
-37	131-0590-00			30	..TERMINAL,PIN:0.71 L X 0.025 SQ PH BRZ	22526	47331
-38	136-0269-02		B010130	6	..SKT,PL-IN ELEK:MICROCKT,14 DIP,PCB MT	09922	DILB14P-108T
-39	136-0260-02	B010100	B040538	8	..SKT,PL-IN ELEK:MICROCKT,16 DIP,PCB MT	09922	DILB16P-108T
-40	136-0634-00		B010100	2	..SKT,PL-IN ELEK:MICROCIRCUIT,20 DIP	09922	DILB20P-108
-41	136-0578-00	B010100	B080713	10	..SKT,PL-IN ELEK:MICROCIRCUIT,24 DIP,LOW PF	09922	DILB24P-108
	136-0751-00	B080714		10	..SKT,PL-IN ELEK:MICROCKT,24 PIN	09922	DILB24P108
-42	------ ------			1	..MICROCIRCUIT,LI:(SEE U101 REPL) ..(ATTACHING PARTS)		
-43	210-0551-00			1	..NUT,PLAIN,REX:4-40 X 0.25,ST CD PL	TK0435	ORDER BY DESCR
-44	210-0054-00			1	..WASHER,LOCK:#4 SPLIT,0.025 THK STL	78189	ORDER BY DESCR
-45	210-0994-00			1	..WASHER,FLAT:0.125ID X 0.250 X 0.022	86928	8371-283-20
-46	210-1178-00			1	..WASHER,SHLDR:	13103	7721-7PPS
-47	211-0012-00			1	..SCREW,MACHINE:4-40 X 0.375,PNH,STL ..(END ATTACHING PARTS)	TK0435	ORDER BY DESCR
-48	342-0202-00			1	..INSULATOR,PLATE:100MSLSTOR,MICA	91500	10-21-023-106
-49	214-1967-00			1	..HEAT SINK,DIODE:(2)0.15 DIA HOLES,AL	05820	299-3B
-50	351-0279-00			4	GUIDE,SIDE:6.10 X 0.375,NYLON	80009	351-0279-00
-51	386-3746-00			1	SUPPORT,CHASSIS:10P BOAR	80009	386-3746-00

Fig. & Index No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Dscont	Qty	12345 Name & Description	Mfr. Code	Mfr. Part No.
3-					(ATTACHING PARTS)		
-52	210-0586-00			2	NUT,PL,ASSEM WA:4-40 X 0.25,STL CD PL	78189	211-041800-00
-53	211-0008-00			2	SCREW,MACHINE:4-40 X 0.25,PNH,STL	93907	ORDER BY DESCR
-54	210-0457-00			2	NUT,PL,ASSEM WA:6-32 X 0.312,STL CD PL	78189	511-061800-00
-55	210-0202-00			1	TERMINAL,LUG:0.146 ID,LOCKING,BRI TIN PL	86928	B-373-156-2
					(END ATTACHING PARTS)		
	334-3510-00	B010195		1	MARKER,IDENT:MARKED +6.1 ADJ	07416	ORDER BY DESCR
	334-3511-00	B010195		1	MARKER,IDENT:MARKED -50 ADJ	80009	334-3511-00
-56	200-2093-00			1	COVER,HOLE:	80009	200-2093-00
					(ATTACHING PARTS)		
-57	210-0457-00			2	NUT,PL,ASSEM WA:6-32 X 0.312,STL CD PL	78189	511-061800-00
-58	210-0863-00			1	WSHR,LOCK CLAMP:0.187 ID X/W 0.3 W CLP	95987	C131
					(END ATTACHING PARTS)		
-59	343-0013-00			1	CLAMP,LOOP:0.375 ID,PLASTIC	06915	6S CLEAR
-60	200-2139-00			1	COVER,CHASSIS:	80009	200-2139-00
					(ATTACHING PARTS)		
-61	210-0457-00			2	NUT,PL,ASSEM WA:6-32 X 0.312,STL CD PL	78189	511-061800-00
					(END ATTACHING PARTS)		
-62	348-0058-00			1	GROMMET,PLASTIC:GRBT,ROUND,0.332 ID	80009	348-0058-00
-63	351-0087-00			6	GUIDE,CKT BOARD:4.75 L,NAT ACETAL	80009	351-0087-00
-64	441-1382-00			1	CHASSIS,CKT BD:	80009	441-1382-00
					(ATTACHING PARTS)		
-65	210-0457-00			6	NUT,PL,ASSEM WA:6-32 X 0.312,STL CD PL	78189	511-061800-00
-66	211-0538-00			1	SCREW,MACHINE:6-32 X 0.312,FLH,100 DEG	93907	ORDER BY DESCR
					(END ATTACHING PARTS)		
-67	200-2215-00			1	COVER,PLENUM:ALUMINUM	80009	200-2215-00
					(ATTACHING PARTS)		
-68	211-0504-00			2	SCREW,MACHINE:6-32 X 0.250,PNH,STL	TK0435	ORDER BY DESCR
					(END ATTACHING PARTS)		
-69	---- ----			1	CKT BOARD ASSY:DATA MEM INTCON		
					(SEE A68 REPL)		
-70	129-0688-00			4	.SPACER,POST:0.46 L,4-40 BOTH ENDS,AL,0.25	80009	129-0688-00
					.DIA		
-71	131-1811-00			2	.CONN,RCPT,ELEC:CKT BD 25/50 CONTACT	05574	000201-3255
-72	210-0586-00			4	.NUT,PL,ASSEM WA:4-40 X 0.25,STL CD PL	78189	211-041800-00
-73	---- ----			1	CKT BOARD ASSY:MAIN INTCON(SEE A68 REPL)		
					(ATTACHING PARTS)		
-74	211-0012-00			4	SCREW,MACHINE:4-40 X 0.375,PNH,STL	TK0435	ORDER BY DESCR
-75	211-0016-00			8	SCREW,MACHINE:4-40 X 0.625,PNH,STL	TK0435	ORDER BY DESCR
-76	361-0762-00			12	SPACER,SLEEVE:0.15 L X 0.128 ID,BRASS	80009	361-0762-00
					(END ATTACHING PARTS)		
					CKT BOARD ASSY INCLUDES:		
-77	131-1857-00	B010100	B101024	4	.TERM SET,PIN:36/0.025 SQ PIN,DH 0.1 CTRS	TK1483	DB2-3643-5510
	131-1343-00	B101025	B101164	4	.TERM SET,PIN:36-0.525 L X 0.025 SQ	TK1483	DB2-3643-5502
	131-1857-00	B101165		4	.TERM SET,PIN:36/0.025 SQ PIN,DH 0.1 CTRS	TK1483	DB2-3643-5510
-78	131-2171-00			1	.TERM SET,PIN:40/80,0.025 SQ	00779	4-87422-0
-79	131-0831-00			1	.CONN,RCPT,ELEC:CKT BD,50/100 CONT,0.1 CTR	05574	000201-5196
-80	131-1178-00			4	.CONN,RCPT,ELEC:EDGECARD,36/72 CONT,0.1 SP	05574	000201-5102
-81	131-1178-03			2	.CONN,RCPT,ELEC:CKT BD,36/72 CONT	80009	131-1178-03
-82	131-1425-00	B010100	B101024	2	.CONN,RCPT,ELEC:RTANG HEADER,1 X 36,0.1 SP	22526	65521-136
-83	131-2168-00			2	.CONN,RCPT,ELEC:EDGECARD,50/100 CONT,0.1 SP	05574	000231-3606
					.(ATTACHING PARTS)		
-84	211-0014-00			4	.SCREW,MACHINE:4-40 X 0.5,PNH,STL	TK0435	ORDER BY DESCR
					.(END ATTACHING PARTS)		
-85	131-1658-00			1	.CONN,RCPT,ELEC:EDGECARD,36/72 CONT,0.1 SP	05574	000231-3601
					.(ATTACHING PARTS)		
-86	211-0014-00			2	.SCREW,MACHINE:4-40 X 0.5,PNH,STL	TK0435	ORDER BY DESCR
					.(END ATTACHING PARTS)		
-87	129-0420-00			8	.SPACER,POST:0.575 L,4-40,AL,0.188 OD	80009	129-0420-00
					.(ATTACHING PARTS)		
-88	211-0008-00			8	.SCREW,MACHINE:4-40 X 0.25,PNH,STL	93907	ORDER BY DESCR
					.(END ATTACHING PARTS)		
-89	351-0295-02			2	GUIDE,SLIDE:PLUG-IN,UNR	80009	351-0295-02
					(ATTACHING PARTS)		
-90	210-0586-00			2	NUT,PL,ASSEM WA:4-40 X 0.25,STL CD PL	78189	211-041800-00
-91	211-0101-00			2	SCREW,MACHINE:4-40 X 0.25,FLH,100 DEG,STL	TK0435	ORDER BY DESCR
-92	213-0088-00			2	SCREW,TPG,TF:4-24 X 0.25,TYPE B,PNH	83385	ORDER BY DESCR

Fig. & Index No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Discont	Qty	12345 Name & Description	Mfr. Code	Mfr. Part No.
3-					(END ATTACHING PARTS)		
	252-0562-00	B010135		1	PLASTIC EXTR:0.1 X 0.12,POLYETHYLENE	06229	652
-93	441-1375-01			1	CHASSIS,PLENUM:W/BRACKET & HARDWARE	80009	441-1375-01
					(ATTACHING PARTS)		
-94	210-0457-00			2	NUT,PL,ASSEM WA:6-32 X 0.312,STL CD PL	78189	511-061800-00
-95	211-0538-00			2	SCREW,MACHINE:6-32 X 0.312,FLH,100 DEG	93907	ORDER BY DESCR
					(END ATTACHING PARTS)		
-96	386-3775-00			1	SUPPORT,CHASSIS:REAR	80009	386-3775-00
					(ATTACHING PARTS)		
-97	211-0008-00	B010100	B059999	2	SCREW,MACHINE:4-40 X 0.25,PNH,STL	93907	ORDER BY DESCR
	211-0008-00	B060000		1	SCREW,MACHINE:4-40 X 0.25,PNH,STL	93907	ORDER BY DESCR
	211-0012-00	B060000		1	SCREW,MACHINE:4-40 X 0.375,PNH,STL	TK0435	ORDER BY DESCR
-98	210-0994-00			2	WASHER,FLAT:0.125ID X 0.250D X 0.022	88928	0371-283-20
					(END ATTACHING PARTS)		
-99	441-1386-00	B010100	B053599	1	CHASSIS,CRT:	80009	441-1386-00
	441-1386-01	B060000		1	CHASSIS,CRT:	80009	441-1386-01
					(ATTACHING PARTS)		
-100	211-0012-00			5	SCREW,MACHINE:4-40 X 0.375,PNH,STL	TK0435	ORDER BY DESCR
-101	210-0994-00	B010100	B060719	6	WASHER,FLAT:0.125ID X 0.250D X 0.022	88928	0371-283-20
	210-0994-00	B060719		5	WASHER,FLAT:0.125ID X 0.250D X 0.022	88928	0371-283-20
					(END ATTACHING PARTS)		
-102	343-0603-00	B060719		1	CLAMP,LOOP:0.25 ID,PLASTIC	06915	6A CLEAR 9030
					(ATTACHING PARTS)		
-103	211-0012-00			1	SCREW,MACHINE:4-40 X 0.375,PNH,STL	TK0435	ORDER BY DESCR
-104	210-0869-00	B060719		1	WSHR,LOOP CLAMP:0.187 ID W/M 0.5 W CLP	95987	C101
					(END ATTACHING PARTS)		
-105	407-2646-00	B060000		1	BRACKET,ANGLE:POWER SUPPLY SUPPORT,AL	80009	407-2646-00
					(ATTACHING PARTS)		
-106	211-0012-00			1	SCREW,MACHINE:4-40 X 0.375,PNH,STL	TK0435	ORDER BY DESCR
-107	211-0025-00	B060000		1	SCREW,MACHINE:4-40 X 0.375,FLH,100 DEG	TK0435	ORDER BY DESCR
-108	210-0586-00	B060000		1	NUT,PL,ASSEM WA:4-40 X 0.25,STL CD PL	78189	211-041800-00
-109	211-0538-00	B060000		1	SCREW,MACHINE:6-32 X 0.312,FLH,100 DEG	93907	ORDER BY DESCR
-110	210-0457-00	B060000		1	NUT,PL,ASSEM WA:6-32 X 0.312,STL CD PL	78189	511-061800-00
					(END ATTACHING PARTS)		
-111	----- -----	B110000		1	CKT BOARD ASSY:MPU(SEE REPL)		
					(ATTACHING PARTS)		
-112	211-0155-00			4	SCREW,EXT RLV:4-40 X 0.375,PNH,SST,POZ	80009	211-0155-00
					(END ATTACHING PARTS)		
					MPU BOARD INCLUDES:		
-113	105-0160-00			2	.EJECTOR,CKT BD:WHITE PLASTIC	80009	105-0160-00
					.(ATTACHING PARTS)		
-114	214-1337-00			2	.PIN,SPRING:0.25 L X 0.103 OD,STL CD PL	80009	ORDER BY DESCR
					.(END ATTACHING PARTS)		
-115	131-0393-00			2	.BUS,CONDUCTOR:SHUNT ASSEMBLY,BLACK	22526	65474-005
-116	136-0751-00			3	.SKT,PL-IN ELEK:MICROCKT,24 PIN	09922	DILB24P108
					.(FOR U900,U1000,U1200)		
-117	136-0757-00			1	.SKT,PL-IN ELEK:MICROCIRCUIT,40 DIP	09922	DILB40P-108
					.(FOR U1010)		

FIG. 4 U-FRAME & CRT ASSY

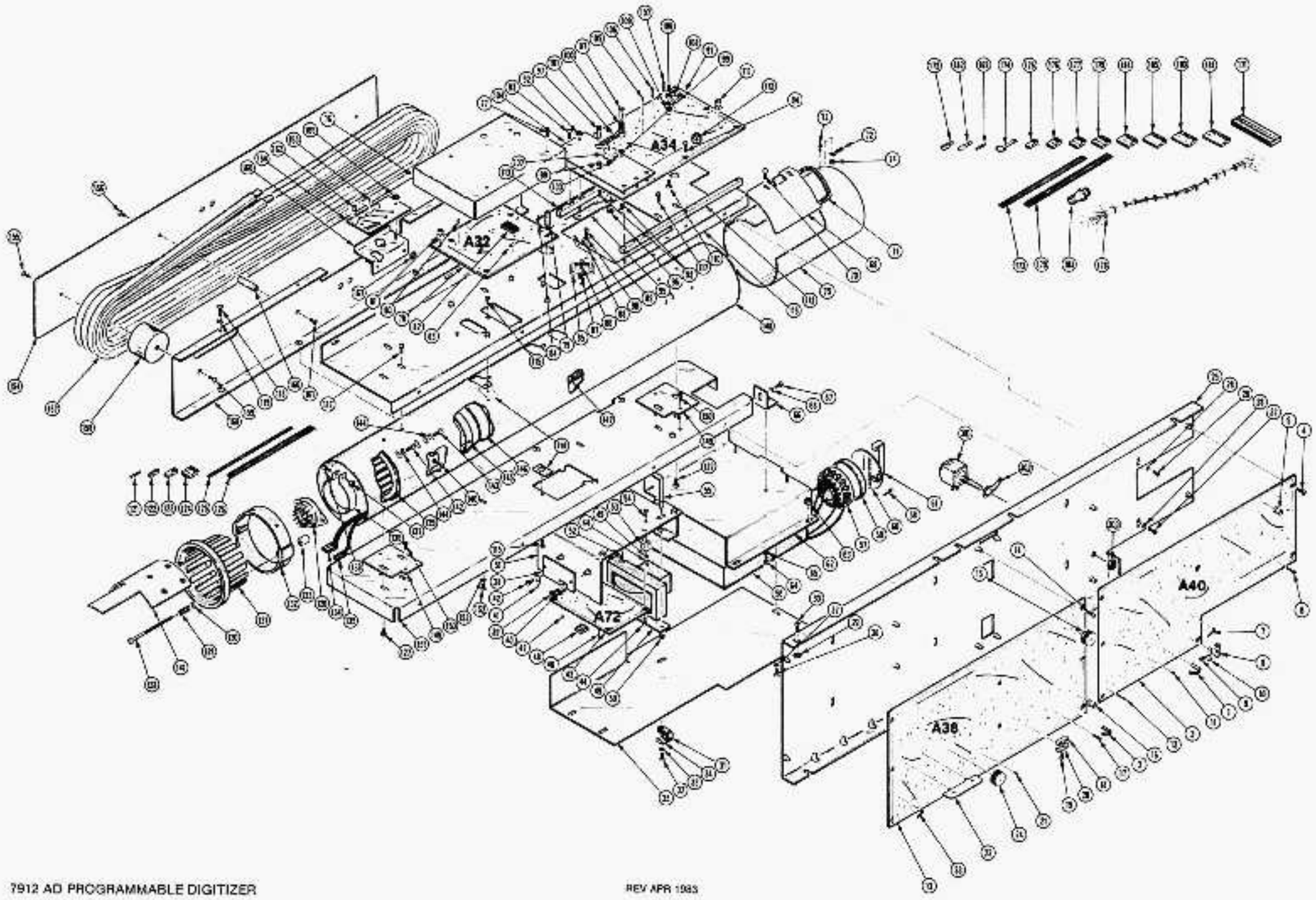

Fig. & Index No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Discont	Qty	12345 Name & Description	Mfr. Code	Mfr. Part No.
4-1	343-0089-00			2	CLAMP,CABLE:0.3 DIO,PLASTIC	80009	343-0089-00
-2	343-0136-00			1	CLAMP,LOOP:0.26 ID,PLASTIC	80009	343-0136-00
-3	----- -----			1	CKT BOARD ASSY:HOR(2 T-AXIS(SEE A40 REPL) (ATTACHING PARTS)		
-4	211-0008-00	B010100	B039999	6	SCREW,MACHINE:4-40 X 0.25,PNH,STL	93907	ORDER BY DESCR
	211-0008-00	B040000		5	SCREW,MACHINE:4-40 X 0.25,PNH,STL	93907	ORDER BY DESCR
	210-0979-00	B040000	B100766	1	WASHER,FLAT:0.141 ID X 0.312 OD X 0.05,STL	12327	ORDER BY DESCR
	343-0063-00	B040000		1	CLAMP,LOOP:0.25 ID,PLASTIC	06915	94 CLEAR ROUND
	210-0863-00	B040000		1	WSHR,LOCK CLAMP:0.187 ID LOW 0.5 H CLP	95987	C191
	211-0012-00	B040000		1	SCREW,MACHINE:4-40 X 0.375,PNH,STL	TK0435	ORDER BY DESCR
					(END ATTACHING PARTS)		
					CKT BOARD ASSY INCLUDES:		
-5	131-1003-00			4	.CONN,RCPT,ELEC:CKT BD MT,3 PRONG	80009	131-1003-00
-6	214-0579-00			10	.TERM,TEST POINT:BRS CD PL	80009	214-0579-00
-7	131-0589-00			8	.TERMINAL,PIN:0.46 L X 0.025 SQ PH BRZ	22526	48283-029
-8	200-0945-01			1	.COVER HALF,XSTR:DUAL 10-18 W/2-56 THD AL (ATTACHING PARTS)	80009	200-0945-01
-9	211-0001-00			1	.SCREW,MACHINE:2-56 X 0.25,PNH,STL (END ATTACHING PARTS)	TK0435	ORDER BY DESCR
-10	200-0945-00			1	.COVER HALF,XSTR:DUAL 10-18 ALUMINUM	80009	200-0945-00
-11	136-0252-07	B010100	B050586	132	.SOCKET,PIN CONN:W/O DIMPLE	22526	75060-012
	136-0252-07	B050587	B100766	114	.SOCKET,PIN CONN:W/O DIMPLE	22526	75060-012
	136-0252-07	B100767	B111235	106	.SOCKET,PIN CONN:W/O DIMPLE	22526	75060-012
	136-0252-07	B111236		4	.SOCKET,PIN CONN:W/O DIMPLE	22526	75060-012
-12	131-0608-00	B010100	B100766	18	.TERMINAL,PIN:0.385 L X 0.025 BRZ GLD PL	22526	48283-036
	131-0608-00	B100767		20	.TERMINAL,PIN:0.385 L X 0.025 BRZ GLD PL CKT BOARD ASSY:W/W SHLT CONN(SEE A69 REPL)	22526	48283-036
	131-0608-00	B140000		2	.TERMINAL,PIN:0.385 L X 0.025 BRZ GLD PL	22526	48283-036
	253-0178-00	B140000		1	TAPE,PRESS SENS:KAPTL FILM,0.5 X 0.062,	85471	ORDER BY DESCR
	175-3347-00	B040000	B099999	1	LEAD ASSY,ELEC:2,26 AWG,26.0 L,9.0 A AW	80009	175-3347-00
	198-4467-00	B090000		1	WIRE SET,ELEC:	80009	198-4467-00
	352-0159-00	B040000	B099999	1	.HLDR,TERM CONN:2 WIRE,BLACK	80009	352-0159-00
	352-0159-00	B090000		2	.HLDR,TERM CONN:2 WIRE,BLACK	80009	352-0159-00
-13	----- -----			1	CKT BOARD ASSY:SCAN AMP,HORZ GEN (SEE A38 REPL) (ATTACHING PARTS)		
-14	211-0008-00			8	SCREW,MACHINE:4-40 X 0.25,PNH,STL (END ATTACHING PARTS)	93907	ORDER BY DESCR
					CKT BOARD ASSY INCLUDES:		
-15	214-1121-00	B010100	B030487	1	.HEAT SINK,XSTR:TO-5,AL BLACK ANODIZED	13103	22108
	214-1254-00	B030488		1	.HEAT SINK,XSTR:TO-5,CU BE	05820	20856
-16	131-1003-00			2	.CONN,RCPT,ELEC:CKT BD MT,3 PRONG	80009	131-1003-00
-17	214-0579-00			6	.TERM,TEST POINT:BRS CD PL	80009	214-0579-00
-18	200-0945-01			4	.COVER HALF,XSTR:DUAL TO-18 W/2-56 END AL (ATTACHING PARTS)	80009	200-0945-01
-19	211-0001-00			1	.SCREW,MACHINE:2-56 X 0.25,PNH,STL (END ATTACHING PARTS)	TK0435	ORDER BY DESCR
-20	200-0945-00			4	.COVER HALF,XSTR:DUAL TO-18 ALUMINUM	80009	200-0945-00
-21	136-0252-07	B010100	B050586	93	.SOCKET,PIN CONN:W/O DIMPLE	22526	75060-012
	136-0252-07	B050587	B111235	52	.SOCKET,PIN CONN:W/O DIMPLE	22526	75060-012
	136-0252-07	B111236		38	.SOCKET,PIN CONN:W/O DIMPLE	22526	75060-012
-22	337-0896-00			1	.PLATE,ELEC SHLD:8 SHEEP CKT BD	80009	337-0896-00
-23	131-0589-00			33	.TERMINAL,PIN:0.46 L X 0.025 SQ PH BRZ	22526	48283-029
-24	214-0668-00			6	.HEAT SINK,XSTR:TO-5,AL BLK ANOD	13103	22118
	124-0050-00	B080000		1	PLASTIC STRIP:8.875 X 0.75 X 0.062 FOAM	80009	124-0050-00
-25	441-1390-00	B010100	B100912	1	CHASSIS,CKT BD:	80009	441-1390-00
	441-1390-01	B100913		1	CHASSIS,CKT BD: (ATTACHING PARTS)	80009	441-1390-01
-26	211-0007-00			4	SCREW,MACHINE:4-40 X 0.188,PNH,STL	TK0435	ORDER BY DESCR
-27	211-0007-00			4	SCREW,MACHINE:4-40 X 0.312,PNH,STL	TK0435	ORDER BY DESCR
-28	210-0994-00			8	WASHER,FLAT:0.125ID X 0.250 X 0.022	86928	0371-283-20
-29	210-0586-00			6	NUT,PL,ASSEM WA:4-40 X 0.25,STL CD PL	78189	211-041800-00
-30	211-0030-00			6	SCREW,MACHINE:4-40 X 0.312,FLH,100 DEG,STL (END ATTACHING PARTS)	TK0435	ORDER BY DESCR
-30.1	----- -----			1	RES,VAR:0.5K OHM(SEE R5210 REPL) (ATTACHING PARTS)		
-30.2	210-0223-01	B100913		1	TERMINAL,LUG:0.26 ID,LOCKING,BRS TINNED	80009	ORDER BY DESCR

Fig. & Index No.	Tektronix Part No.	Serial/Assembly No. Effective	Dscont	Qty	12345	Name & Description	Mfr. Code	Mfr. Part No.
4-30,3	210-0583-00	0100913		1		NUT,PLAIN,HEX:0.25-32 X 0.312,BRS CD PL	73743	2X-20219-452
						(END ATTACHING PARTS)		
-31	343-0013-00			2		CLAMP,LOOP:0.375 ID,PLASTIC	08915	6% CLEAR
						(ATTACHING PARTS)		
-32	211-0012-00			2		SCREW,MACHINE:4-40 X 0.375,PNH,STL	TK0435	ORDER BY DESCR
-33	210-0994-00			1		WASHER,FLAT:0.125ID X 0.250D X 0.022	88928	0371-283-20
-34	210-0883-00			1		WSHR,LOCK CLAMP:0.187 ID U/W 0.5 W CLP	95987	C181
						(END ATTACHING PARTS)		
-35	200-2108-00			1		COVER,CHASSIS:HIGH VOLTAGE	80009	200-2108-00
						(ATTACHING PARTS)		
-36	211-0058-00			2		SCREW,MACHINE:4-40 X 0.25,PNH,STL	93907	ORDER BY DESCR
-37	210-0994-00			2		WASHER,FLAT:0.125ID X 0.250D X 0.022	88928	0371-283-20
						(END ATTACHING PARTS)		
-38	----- -----			1		RES.,FXD,FILM:(SEE R5205 REPL)		
						(ATTACHING PARTS)		
-39	211-0116-00			2		SCR,ASSEM WSHR:4-40 X 0.312,PNH,BRS,NP,POZ	77900	ORDER BY DESCR
-40	210-0201-00			1		TERMINAL,LUG:0.12 ID,LOCKING,BRZ TIN PL	86928	8379-157-2
						(END ATTACHING PARTS)		
-41	210-0201-00			1		TERMINAL,LUG:0.12 ID,LOCKING,BRZ TIN PL	86928	8379-157-2
						(ATTACHING PARTS)		
-42	211-0008-00			1		SCREW,MACHINE:4-40 X 0.25,PNH,STL	93907	ORDER BY DESCR
						(END ATTACHING PARTS)		
-43	----- -----			1		CKT BOARD ASSY:HIGH VOLTAGE OSC		
						(SEE A72 REPL)		
						(ATTACHING PARTS)		
-44	211-0008-00			6		SCREW,MACHINE:4-40 X 0.25,PNH,STL	93907	ORDER BY DESCR
-45	210-1178-00			2		WASHER,SHLDR:	13103	7721-7PPS
						(END ATTACHING PARTS)		
						CKT BOARD ASSY INCLUDES:		
-46	131-0608-00			7		.TERMINAL,PIN:0.365 L X 0.025 BRZ GLD PL	22526	48283-036
-47	136-0252-04			42		.SOCKET,PIN TERM:U/W 0.016-0.018 DIA PINS	22526	75060-007
-48	136-0514-00	B010100	B080713	1		.SKT,PL-IN ELEK:MICROCIRCUIT,8 DIP	09922	DILB8P-108
	136-0727-00	B080714		1		.SKT,PL-IN ELEK:MICROSKT,8 CONTACT	09922	DILB8P-108
	214-0269-00	B060000		2		.HEAT SINK,ASSY:0.312 DIA X 0.75 L	98978	TXD-032-75
-49	386-3776-00			1		PLATE,HV:	80009	386-3776-00
						(ATTACHING PARTS)		
-50	210-0586-00			2		NUT,PL,ASSEM WA:4-40 X 0.25,STL CD PL	78189	211-041800-00
						(END ATTACHING PARTS)		
-51	441-1387-00			1		CHASSIS,XFMR:HV	80009	441-1387-00
						(ATTACHING PARTS)		
-52	211-0097-00			4		SCREW,MACHINE:4-40 X 0.312,PNH,STL	TK0435	ORDER BY DESCR
						(END ATTACHING PARTS)		
-53	129-0410-00			2		SPACER,POST:0.375 L,4-40 THRU,AL,0.375 HEX	80009	129-0410-00
						(ATTACHING PARTS)		
-54	211-0008-00			2		SCREW,MACHINE:4-40 X 0.25,PNH,STL	93907	ORDER BY DESCR
						(END ATTACHING PARTS)		
-55	348-0010-00			1		BAND,RETAINING:XFMR,0.312 X 5.375,AL	80009	348-0010-00
-56	----- -----			1		POWER SUPPLY(SEE A74 REPL)		
-57	204-0464-00			1		.BODY SECT,PROBE:NOSE,TRANSISTION	80009	204-0464-00
-58	214-0464-00			14		.CONTACT,ELEC:CRT SOCKET,CD PL	80009	214-0464-00
-59	200-0917-01			1		COVER,CRT SKT:2.062 OD X 0.291 H,PLASTIC	80009	200-0917-01
-60	357-0117-00			1		PULL,SOCKET:CRT,PLASTIC	80009	357-0117-00
-61	343-0235-00			1		CLAMP,CRT SKT:DELRIN	80009	343-0235-00
-62	441-1388-00			1		CHASSIS,XFMR:HV	80009	441-1388-00
						(ATTACHING PARTS)		
-63	210-0457-00			2		NUT,PL,ASSEM WA:E-32 X 0.312,STL CD PL	78189	511-051008-00
-64	211-0008-00	B010100	B040538	1		SCREW,MACHINE:4-40 X 0.25,PNH,STL	93907	ORDER BY DESCR
	211-0038-00	B040539		1		SCREW,MACHINE:4-40 X 0.312,FLH,100 DEG,STL	TK0435	ORDER BY DESCR
-65	210-0994-00	B010100	B040538	1		WASHER,FLAT:0.125ID X 0.250D X 0.022	88928	0371-283-20
	210-1344-00	B040539		1		WASHER,FLAT:0.125 ID X 1.5 OD X 0.4 AL	80009	210-1344-00
						(END ATTACHING PARTS)		
-66	407-1990-00			1		BRACKET,SUPPORT:CHASSIS TO HV,ALUMINUM	80009	407-1990-00
						(ATTACHING PARTS)		
-67	211-0008-00			1		SCREW,MACHINE:4-40 X 0.25,PNH,STL	93907	ORDER BY DESCR
-68	210-0994-00			1		WASHER,FLAT:0.125ID X 0.250D X 0.022	88928	0371-283-20
						(END ATTACHING PARTS)		
-69	337-1916-00			1		SHIELD,CRT:RIGHT	80009	337-1916-00

Fig. & Index No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Descnt	Qty	12345	Name & Description	Mfr. Code	Mfr. Part No.
4-						(ATTACHING PARTS)		
-70	211-0108-00			2		SCREW,MACHINE:4-40 X 0.25,PNH,BRS,NP	12360	ORDER BY DESCR
						(END ATTACHING PARTS)		
-71	252-0562-00			60		PLASTIC EXTR:0.1 X 0.12,POLYETHYLENE	06229	G52
-72	214-0094-00			3		BOLT,EYE:4-40 X 0.312,STL CD PL	80009	214-0094-00
						(ATTACHING PARTS)		
-73	211-0022-00			3		SCREW,MACHINE:2-56 X 0.188,PNH,STL	TK0435	ORDER BY DESCR
-74	210-0405-00			3		NUT,PLAIN,HEX:2-56 X 0.188,BRS CD PL	73743	12157-50
						(END ATTACHING PARTS)		
-75	337-1826-00	B010100	B045999	1		SHIELD,CRT:REAR	80009	337-1826-00
	337-1826-02	B050000		1		SHIELD,CRT:REAR	TK0892	337-1326
-76	337-2485-00			1		SHIELD,ELEC:READING GUN PREAMP	80009	337-2485-00
						(ATTACHING PARTS)		
-77	211-0008-00			4		SCREW,MACHINE:4-40 X 0.25,PNH,STL	93907	ORDER BY DESCR
						(END ATTACHING PARTS)		
-78	----- -----			1		CKT BOARD ASSY:VIDEO PREAMP(SEE A32 REPL)		
						(ATTACHING PARTS)		
-79	129-0038-00			4		SPACER,POST:0.64 L,0.188 HEX,BRS	80009	129-0038-00
						(END ATTACHING PARTS)		
						CKT BOARD ASSY INCLUDES:		
-80	136-0252-07	B010100	B111235	24		.SOCKET,PIN CONN:W/O DIMPLE	22526	75060-012
-81	131-1003-00			3		.CONN,RCPT,ELEC:CKT BD MT,3 PRONG	80009	131-1003-00
-82	136-0269-02	B010100	B050579	1		.SKT,PL-IN ELEC:MICROCKT,14 DIP,PCB MT	09922	DILB14P-108T
-83	131-0566-00			1		.BUS,CNDCT:DUMMY RES,0.094 OD X 0.225 L	24546	DNG 07
-84	131-0608-00			8		.TERMINAL,PIN:0.365 L X 0.025 DIA GLD PL	22526	48283-036
	342-0308-00	B010214	B049999	1		STRAIN RLF,CA:POWER CABLE	80009	343-0308-00
						(ATTACHING PARTS)		
	210-0407-00	B010214	B049999	1		NUT,PLAIN,HEX:6-32 X 0.25,BRS CD PL	73743	3038-402
	210-0229-00	B010214	B049999	1		TERMINAL,LUG:0.172 ID,LOCKING,BRZ TINNED	09972	2103-00-00-2529W
						(END ATTACHING PARTS)		
-85	131-0023-00			1		TERMINAL BOARD:DOUBLE CONTACT	71785	322-11-03-029
						(ATTACHING PARTS)		
-86	213-0148-00			1		SCREW,TPG,TF:6-20 X 0.312,TYPE B,PNH,STL	83385	ORDER BY DESCR
-87	210-0008-00			1		WASHER,LOCK:#6 INTL,0.018 THK,STL	77900	1206-00-00-0541C
						(END ATTACHING PARTS)		
-88	124-0291-00			1		TERMINAL BOARD:4 LUGS ON 0.375 CENTERS	80009	124-0291-00
						(ATTACHING PARTS)		
-89	213-0148-00			1		SCREW,TPG,TF:6-20 X 0.312,TYPE B,PNH,STL	83385	ORDER BY DESCR
-90	210-0008-00			1		WASHER,LOCK:#6 INTL,0.018 THK,STL	77900	1206-00-00-0541C
						(END ATTACHING PARTS)		
-91	----- -----			1		CKT BOARD ASSY:VERTICAL AMP(SEE A34 REPL)		
						(ATTACHING PARTS)		
-92	210-0586-00			5		NUT,PL,ASSEM WA:4-40 X 0.25,STL CD PL	78189	211-041800-00
-93	211-0008-00			4		SCREW,MACHINE:4-40 X 0.25,PNH,STL	93907	ORDER BY DESCR
-94	211-0014-00			1		SCREW,MACHINE:4-40 X 0.5,PNH,STL	TK0435	ORDER BY DESCR
						(END ATTACHING PARTS)		
						CKT BOARD ASSY INCLUDES:		
-95	214-2502-00			1		.HEAT SINK,ELEC:CKT BOARD,VERTICAL,AL	80009	214-2502-00
						.(ATTACHING PARTS)		
-96	210-0402-00			1		.NUT,PLAIN,HEX:6-32 X 0.25,BRS CD PL	73743	3038-402
						.(END ATTACHING PARTS)		
-97	210-0599-00			4		.NUT,SLEEVE:4-40 X 0.219 OD X 0.599 L BRS C	80009	210-0599-00
						.D PL W/SLOTTED HOD		
						.(ATTACHING PARTS)		
-98	211-0097-00			6		.SCREW,MACHINE:4-40 X 0.312,PNH,STL	TK0435	ORDER BY DESCR
-99	210-0551-00			4		.NUT,PLAIN,HEX:4-40 X 0.25,ST CD PL	TK0435	ORDER BY DESCR
						.(END ATTACHING PARTS)		
-100	214-0368-00			2		.SPRING,HLCPS:0.24 OD X 0.438 L,OPEN ENDS,S	91260	ORDER BY DESCR
						.ST		
-101	343-0097-00			2		.RETAINER,XSTR:HEAT SINK,NYLON	80009	343-0097-00
-102	210-0627-00			2		.RIVET,SOLID:0.25 L X 0.042 DD,SHLDR,BRS 60	80009	210-0627-00
						.ED PL		
-103	136-0252-06			10		.SOCKET,PIN TERM:D/W 0.018-0.018 DIA PINS	00779	2-332066-6
-104	214-1683-03			1		.HT SK,MICROCKT:VERTICAL BAFFLE,FLR,RIGHT	80009	214-1683-03
-105	136-0252-04			5		.SOCKET,PIN TERM:D/W 0.018-0.018 DIA PINS	22526	75060-007
	136-0252-01			20		.SOCKET,PIN TERM:D/W 0.0.18 DIA PINS	00779	1-332066-2
-106	214-0579-00			2		.TERM,TEST POINT:BRS CD PL	80009	214-0579-00

Fig. & Index No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Descnt	Qty	12345 Name & Description	Mfr. Code	Mfr. Part No.
4-107	131-0608-00			7	.TERMINAL,PIN:0.365 L X 0.025 BRZ GLD PL	22526	48283-036
-108	----- -----			1	.TRANSISTOR:(SEE 0785 REPL)		
					.(ATTACHING PARTS)		
-109	210-0551-00			2	.NUT,PLAIN,HEX:4-40 X 0.25,ST CD PL	TK0435	ORDER BY DESCR
-110	211-0097-00			1	.SCREW,MACHINE:4-40 X 0.312,PNH,STL	TK0435	ORDER BY DESCR
					.(END ATTACHING PARTS)		
-111	131-1003-00			5	.CONN,RCPT,ELEC:CKT BD MT,3 PRONG	80009	131-1003-00
-112	136-0220-00	B010100	B030422	10	.SKT,PL-IN ELEK:TRANSISTOR 3 CONTACT	71785	133-23-11-034
-113	220-0679-00			2	NUT ASM:4-40 X 0.7,AL	80009	220-0679-00
-114	386-2767-00			1	PLATE,GND,CRT:	80009	386-2767-00
					(ATTACHING PARTS)		
-115	211-0117-00			1	SCREW,MACHINE:4-40 X 0.312,FLH,100 DEG,SST	70318	ORDER BY DESCR
					(END ATTACHING PARTS)		
	342-0518-00	B000740		1	INSULATOR,FLM:CIRCUIT BOARD,FISH PAPER	80009	342-0518-00
	342-0518-00	B000740		1	INSULATOR,FLM:CIRCUIT BOARD,FISH PAPER	14936	ORDER BY DESCR
-116	441-1385-00	B010100	B058999	1	CHAS,DIGITIZER:	80009	441-1385-00
	441-1385-02	B060000		1	CHAS,DIGITIZER:	80009	441-1385-02
					(ATTACHING PARTS)		
-117	211-0121-00	B010100	B010125	4	SCR,ASSEM WSHR:4-40 X 0.438,PNH,BRS	TK0435	ORDER BY DESCR
	211-0143-00	B010126		4	SCREW,MACHINE:4-40 X 0.375,PNH,SST	TK0435	1266-302
	210-1002-00	B010126		4	WASHER,FLAT:0.125 ID X 0.25 OD X 0.022	86528	5714-147-20M
-118	211-0008-00			2	SCREW,MACHINE:4-40 X 0.25,PNH,STL	83907	ORDER BY DESCR
-119	210-0994-00			2	WASHER,FLAT:0.125ID X 0.2500 X 0.022	86528	5371-283-20
					(END ATTACHING PARTS)		
-120	136-0120-02	B010100	B111249	1	SKT,PL-IN ELEK:ELCTRN TUBE,12 CONT W/LEADS	80009	136-0120-02
-121	131-0707-00			6	.CONTACT,ELEC:22-26 AWG,BRS,CD BE GLD PL	22526	47439-000
-122	352-0171-01			2	.HLDR,TERM CONN:1 WIRE,BROWN	80009	352-0171-01
	352-0171-02			1	.HLDR,TERM CONN:1 WIRE,RED	80009	352-0171-02
	352-0171-03			1	.HLDR,TERM CONN:1 WIRE,ORANGE	80009	352-0171-03
	352-0171-04			1	.HLDR,TERM CONN:1 WIRE,YELLOW	80009	352-0171-04
-123	352-0169-07			1	.HLDR,TERM CONN:2 WIRE,VIOLET	80009	352-0169-07
-124	352-0162-05			1	.HLDR,TERM CONN:4 WIRE,GREEN	80009	352-0162-05
-125	175-0825-00			0R	.CABLE,SP,ELEC:2,28 AWG,STRD,PVC JKT,BRN	80009	175-0825-00
-126	175-0827-00			0R	.CABLE,SP,ELEC:6,28 AWG,STRD,PVC JKT,BRN	08261	111-2699-954
					CRT BOARD ASSY:GOMO GUN SET(SEE 876 REPL)		
	175-0274-00			1	.CA ASSY,SP,ELEC:4,26 AWG,4.5 L,RIBBON	80009	175-0274-00
	175-0275-00			1	.CA ASSY,SP,ELEC:2,26 AWG,8.0 L,RIBBON	80009	175-0275-00
	175-0276-00			1	.CA ASSY,SP,ELEC:2,26 AWG,5.0 L,RIBBON	80009	175-0276-00
	175-0277-00			1	.CA ASSY,SP,ELEC:2,26 AWG,8.0 L,RIBBON	80009	175-0277-00
	196-2829-00			1	.LEAD,ELECTRICAL:26 AWG,12.0 L,8-2	80009	196-2829-00
					ELECTRON TUBE:ASSEMBLY(SEE V5230 REPL)		
					(ATTACHING PARTS)		
-127	211-0121-00	B010100	B010125	4	SCR,ASSEM WSHR:4-40 X 0.438,PNH,BRS	TK0435	ORDER BY DESCR
	211-0143-00	B010126		4	SCREW,MACHINE:4-40 X 0.375,PNH,SST	TK0435	1266-302
	210-1002-00	B010126		4	WASHER,FLAT:0.125 ID X 0.25 OD X 0.022	86528	5714-147-20M
					(END ATTACHING PARTS)		
-128	211-0170-00			4	.SCREW,MACHINE:4-40 X 2.25,PNH,SST	TK0435	ORDER BY DESCR
-129	214-1333-00			4	.SPRING,RLCPS:0.213 OD X 0.375,CLE,CU-BE	80009	214-1333-00
-130	210-0994-00			4	.WASHER,FLAT:0.125ID X 0.2500 X 0.022	86528	5371-283-20
-131	343-0205-03			2	.CLP,ELCTRN TUBE:3.0 DIA X 1.5 L,DELRIN	80009	343-0205-03
-132	354-0347-00			2	.RING,CRT CLAMP:2.127 ID X 2.566 OD X 0.563	80009	354-0347-00
-133	384-0617-00			2	.SPACER,POST:0.375L,4-40 THRD,BRS,0.25 HEX	80009	384-0617-00
-134	352-0161-00			1	.HLDR,TERM CONN:3 WIRE,BLACK	80009	352-0161-00
-135	352-0168-00			1	.HLDR,TERM CONN:2 WIRE,BLUE	80009	352-0168-00
-136	343-0442-00			1	.CLAMP,LOOP:1.285 ID,SST	80009	343-0442-00
					.(ATTACHING PARTS)		
-137	210-0406-00			1	.NUT,PLAIN,HEX:4-40 X 0.188,BRS CD PL	73743	12181-50
-138	211-0152-00			1	.SCR,ASSEM WSHR:6-40 X 0.625,PNH,W&S,MP	78189	ORDER BY DESCR
					.(END ATTACHING PARTS)		
-139	108-0763-00			1	.COIL,TUBE FOCUS:X-Y ALIGNMENT	80009	108-0763-00
					.(ATTACHING PARTS)		
-140	211-0105-00			1	.SCREW,MACHINE:4-40 X 0.188,FLH,100 DEG	TK0435	ORDER BY DESCR
					.(END ATTACHING PARTS)		
-141	386-2757-00			1	.SPAT,CRT SHIELD:	80009	386-2757-00
					.(ATTACHING PARTS)		
-142	211-0198-00			4	.SCREW,MACHINE:4-40 X 0.25,PNH,W&S,MP	12350	ORDER BY DESCR
-143	211-0596-00			2	.SCREW,MACHINE:6-32 X 0.375,PNH,BRS	TK0433	ORDER BY DESCR

Fig. & Index No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Descnt	Qty	12345 Name & Description	Mfr. Code	Mfr. Part No.
4-144	210-0002-00			6	.WASHER,FLAT:0.15 ID X 0.312 OD X 0.032,STL .(END ATTACHING PARTS)	12327	ORDER BY DESCR
-145	343-0441-00			1	.RETAINER,COIL:CRT,SST	80009	343-0441-00
-146	108-0764-00			1	.COIL,DF:FIXED,FOCUS	80009	108-0764-00
-147	124-0050-00			02	.PLASTIC STRIP:5.875 X 0.75 X 0.062 FIBR	80009	124-0050-00
-148	337-1798-00			1	.SHIELD,CRT:	80009	337-1798-00
-149	407-2046-00			2	BRACKET,CRT:ALUMINUM (ATTACHING PARTS)	80009	407-2046-00
-150	211-0008-00			4	SCREW,MACHINE:4-40 X 0.25,PNH,STL (END ATTACHING PARTS)	93907	ORDER BY DESCR
-151	386-3777-00			1	SUPPORT,CRT: (ATTACHING PARTS)	80009	386-3777-00
-152	211-0008-00			3	SCREW,MACHINE:4-40 X 0.25,PNH,STL	93907	ORDER BY DESCR
-153	210-0994-00			3	WASHER,FLAT:0.125ID X 0.250D X 0.022 (END ATTACHING PARTS)	88020	8371-283-20
	119-0437-00			1	DELAY LINE,ELEC:62NS,100 OHM	80009	119-0437-00
-154	441-1154-00			1	.CHASSIS,SCOPE:DELAY LINE,RIGHT .(ATTACHING PARTS)	80009	441-1154-00
-155	213-0058-00			2	.SCREW,TPG,TC:6-32 X 0.312,TYPE T,STL	83486	ORDER BY DESCR
-156	211-0101-00			2	.SCREW,MACHINE:4-40 X 0.25,FLH,100 DEG,STL .(END ATTACHING PARTS)	TK0435	ORDER BY DESCR
-157	175-1309-00			02	.CABLE,DF:1.5 NS/FT DLY,100 OHM,	80009	175-1309-00
-158	129-0403-00			2	.SPACER,POST:1.45 L,ACETAL,1.5 OD .(ATTACHING PARTS)	TK1319	N/R
-159	213-0058-00			2	.SCREW,TPG,TC:6-32 X 0.312,TYPE T,STL .(END ATTACHING PARTS)	83486	ORDER BY DESCR
-160	129-0425-00			2	.SPACER,POST:0.9 L,4-40 THRD,AL,0.25 HEX .(ATTACHING PARTS)	80009	129-0425-00
-161	211-0101-00			2	.SCREW,MACHINE:4-40 X 0.25,FLH,100 DEG,STL .(END ATTACHING PARTS)	TK0435	ORDER BY DESCR
-162	131-1003-00			6	.CONN,RCPT,ELEC:CKT BD MT,3 PRONG	80009	131-1003-00
-163	136-0252-04			6	.SOCKET,PIN TERM:LVN 0.016-0.018 DIA PINS	22526	75060-007
-164	——— ———			1	.CKT BOARD ASSY:DELAY LINE TERM .(SEE A36 REPL) .(ATTACHING PARTS)		
-165	210-0586-00			1	.NUT,PL,ASSEM WA:4-40 X 0.25,STL CD PL .(END ATTACHING PARTS)	78189	211-041800-00
-166	407-1310-00			1	.BRACKET,DL: .(ATTACHING PARTS)	80009	407-1310-00
-167	210-0586-00			2	.NUT,PL,ASSEM WA:4-40 X 0.25,STL CD PL .(END ATTACHING PARTS)	78189	211-041800-00
-168	441-1155-00			1	.CHASSIS,SCOPE:DELAY LINE,LEFT	80009	441-1155-00
	198-3905-00	B010100	B059999	1	WIRE SET,ELEC:	80009	198-3905-00
	198-4248-00	B060000		1	WIRE SET,ELEC:	80009	198-4248-00
-169	131-0707-00			24	.CONTACT,ELEC:22-26 AWG,BRS,CU BE GLD PL	22526	47439-000
-170	175-0828-00			02	.CABLE,SP,ELEC:5,26 AWG,STRD,PVC JKT,RBH	08261	111-2699-955
-171	352-0338-00			1	.HLDR,TERM CONN:64 WIRE,DBL ROW,BLOCK	22526	65043-072
	198-3907-00			1	WIRE SET,ELEC:	80009	198-3907-00
	198-3906-00			1	WIRE SET,ELEC:	80009	198-3906-00
	131-0707-00			30	.CONTACT,ELEC:22-26 AWG,BRS,CU BE GLD PL	22526	47439-000
-172	131-0955-00			3	.TERM,DIK DISC.:22-26 AWG,PH BRZ GOLD PL	22526	47732
-173	175-0827-00			02	.CABLE,SP,ELEC:4,26 AWG,STRD,PVC JKT,RBH	08261	111-2699-954
-174	210-0202-00			1	.TERMINAL,LUG:0.145 ID,LOCKING,BRZ TIN PL	86928	A-373-158-Z
-175	352-0169-05			1	.HLDR,TERM CONN:2 WIRE,GREEN	80009	352-0169-05
	352-0169-06			1	.HLDR,TERM CONN:2 WIRE,BLUE	80009	352-0169-06
-176	352-0161-00			3	.HLDR,TERM CONN:3 WIRE,BLACK	80009	352-0161-00
	352-0161-01			2	.HLDR,TERM CONN:3 WIRE,BROWN	80009	352-0161-01
-177	352-0162-00			1	.HLDR,TERM CONN:4 WIRE,BLACK	80009	352-0162-00
	352-0162-01			1	.HLDR,TERM CONN:4 WIRE,BROWN	80009	352-0162-01
	352-0162-02			1	.HLDR,TERM CONN:4 WIRE,RED	80009	352-0162-02
	352-0162-03			1	.HLDR,TERM CONN:4 WIRE,ORANGE	80009	352-0162-03
	352-0162-04			1	.HLDR,TERM CONN:4 WIRE,YELLOW	80009	352-0162-04
-178	179-2606-00			1	WIRING HARNESS:MAIN	80009	179-2606-00
	131-0707-00			57	.CONTACT,ELEC:22-26 AWG,BRS,CU BE GLD PL	22526	47439-000
	352-0169-00			1	.HLDR,TERM CONN:2 WIRE,BLACK	80009	352-0169-00
	352-0169-02			2	.HLDR,TERM CONN:2 WIRE,RED	80009	352-0169-02
	352-0169-04			2	.HLDR,TERM CONN:2 WIRE,YELLOW	80009	352-0169-04

Fig. & Index No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Dscont	Qty	12345 Name & Description	Mfr. Code	Mfr. Part No
4-	352-0161-01			1	.HLDR,TERM CONN:3 WIRE,BROWN	80009	352-0161-01
-179	352-0163-05			1	.HLDR,TERM CONN:5 WIRE,GREEN	80009	352-0163-05
-180	352-0166-00			1	.HLDR,TERM CONN:8 WIRE,BLACK	80009	352-0166-00
	352-0166-01			1	.HLDR,TERM CONN:8 WIRE,BROWN	80009	352-0166-01
-181	352-0167-00			1	.HLDR,TERM CONN:9 WIRE,BLACK	80009	352-0167-00
	352-0167-03			1	.HLDR,TERM CONN:9 WIRE,ORANGE	80009	352-0167-03
	352-0167-04			1	.HLDR,TERM CONN:9 WIRE,YELLOW	80009	352-0167-04
	343-0549-00			11	.STRAP,TIEDOWN,E:0.091 W X 4.0 L,ZYTEL	06383	PLT1M
	179-2607-00			1	WIRING HARNESS:CRT	80009	179-2607-00
	131-0707-00			31	.CONTACT,ELEC:22-26 AWG,BRS,CU BE GLD PL	22526	47439-000
	352-0159-00			1	.HLDR,TERM CONN:2 WIRE,BLACK	80009	352-0159-00
	352-0159-02			1	.HLDR,TERM CONN:2 WIRE,RED	80009	352-0159-02
	352-0162-02			1	.HLDR,TERM CONN:4 WIRE,RED	80009	352-0162-02
	352-0163-00			1	.HLDR,TERM CONN:5 WIRE,BLACK	80009	352-0163-00
	352-0163-02			2	.HLDR,TERM CONN:5 WIRE,RED	80009	352-0163-02
	352-0167-01			1	.HLDR,TERM CONN:9 WIRE,BROWN	80009	352-0167-01
	343-0549-00			18	.STRAP,TIEDOWN,E:0.091 W X 4.0 L,ZYTEL	06383	PLT1M
	179-2608-00			1	WIRING HARNESS:CRT	80009	179-2608-00
	131-0707-00			3	.CONTACT,ELEC:22-26 AWG,BRS,CU BE GLD PL	22526	47439-000
-182	131-1538-00			3	.CONNECTOR,TERM:22-26 AWG U/O 0.04 SQ PIN	22526	75369-002
	352-0161-01			1	.HLDR,TERM CONN:3 WIRE,BROWN	80009	352-0161-01
	343-0549-00			5	.STRAP,TIEDOWN,E:0.091 W X 4.0 L,ZYTEL	06383	PLT1M
	179-2609-00			1	WIRING HARNESS:REAR PANEL CONN	80009	179-2609-00
	131-0707-00			12	.CONTACT,ELEC:22-26 AWG,BRS,CU BE GLD PL	22526	47439-000
-183	131-3818-00			9	.CONN,RCPT,ELEC:BNC,FEMALE	91836	UG-19-153
	352-0152-06			1	.HLDR,TERM CONN:4 WIRE,BLUE	80009	352-0152-06
-184	352-0164-07			1	.HLDR,TERM CONN:6 WIRE,VIOLET	80009	352-0164-07
	343-0549-00			11	.STRAP,TIEDOWN,E:0.091 W X 4.0 L,ZYTEL	06383	PLT1M
	179-2610-00			1	WIRING HARNESS:FRONT PANEL	80009	179-2610-00
	131-2004-00			56	.CONTACT,ELEC:26 AWG,COPPER NICKEL	80779	5250-207-2
	352-0161-03			2	.HLDR,TERM CONN:3 WIRE,ORANGE	80009	352-0161-03
-185	352-0165-05			2	.HLDR,TERM CONN:7 WIRE,GREEN	80009	352-0165-05
	352-0167-04			2	.HLDR,TERM CONN:9 WIRE,YELLOW	80009	352-0167-04
	352-0167-06			2	.HLDR,TERM CONN:9 WIRE,BLUE	80009	352-0167-06
	343-0549-00			11	.STRAP,TIEDOWN,E:0.091 W X 4.0 L,ZYTEL	06383	PLT1M

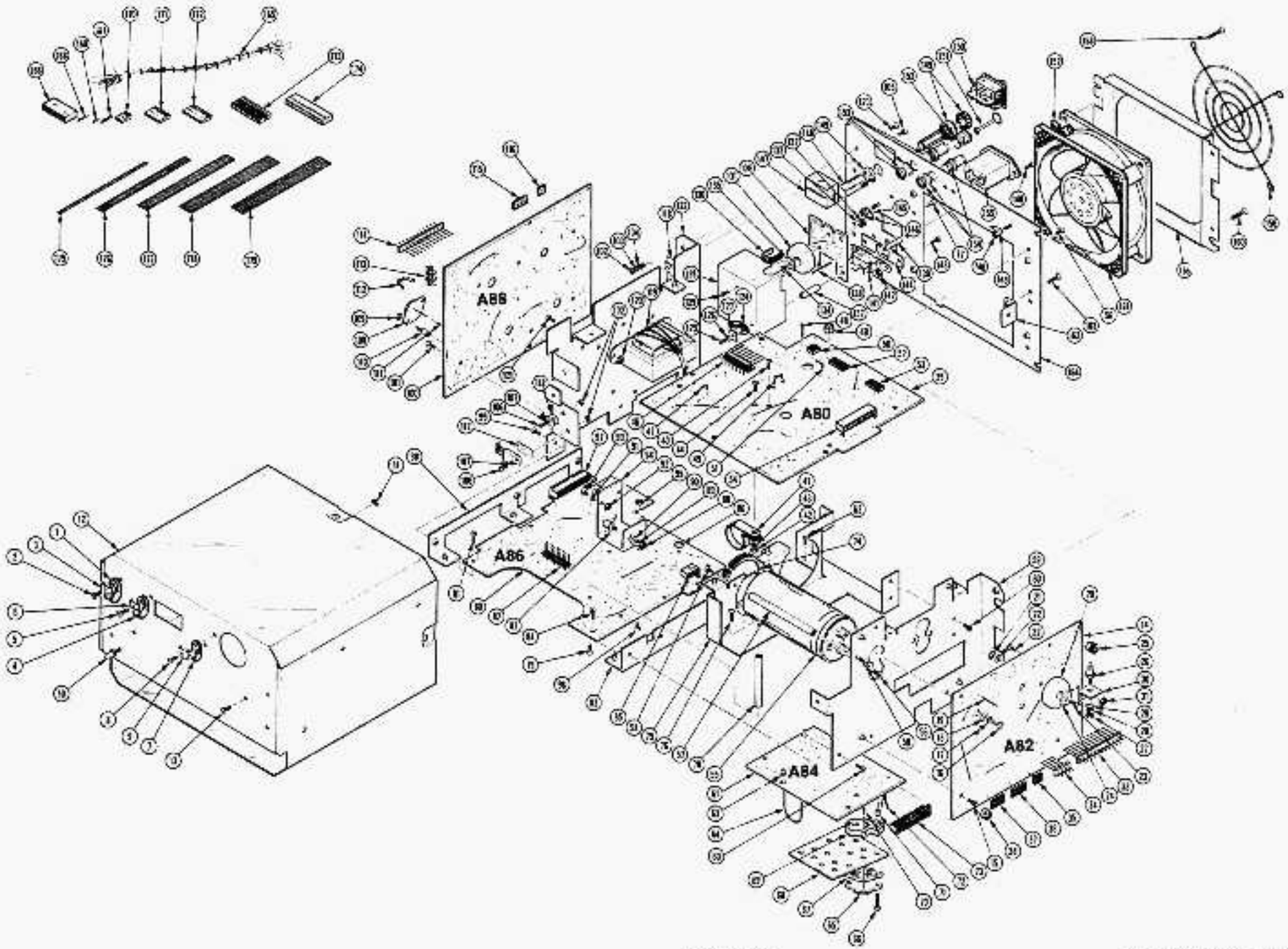
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Fig. & Index No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Dscont	Qty	12345 Name & Description	Mfr. Code	Mfr. Part No.
5-	620-0269-00	B010100	B039999	1	POWER SUPPLY:	80009	620-0269-00
	620-0269-01	B040000	B059999	1	POWER SUPPLY:	80009	620-0269-01
	620-0269-02	B060000	B079999	1	POWER SUPPLY:	80009	620-0269-02
	620-0269-03	B080000	B089999	1	POWER SUPPLY:	80009	620-0269-03
	620-0269-04	B090000	B100940	1	POWER SUPPLY:	80009	620-0269-04
	620-0269-05	B100941	B101114	1	POWER SUPPLY:	80009	620-0269-05
	620-0269-06	B101115		1	POWER SUPPLY:	80009	620-0269-06
-1	343-0013-00			1	.CLAMP,LOOP:0.375 ID,PLASTIC .(ATTACHING PARTS)	06915	6R CLEAR
-2	211-0504-00			1	.SCREW,MACHINE:6-32 X 0.250,PNH,STL	TK0435	ORDER BY DESCR
-3	210-0863-00			1	.WSHR,LOCK CLAMP:0.197 ID U/W 0.5 M CLP .(END ATTACHING PARTS)	95987	C191
-4	343-0007-00			1	.CLAMP,LOOP:0.625 ID,PLASTIC .(ATTACHING PARTS)	06915	6R CLEAR ROUND
-5	211-0504-00			1	.SCREW,MACHINE:6-32 X 0.250,PNH,STL	TK0435	ORDER BY DESCR
-6	210-0863-00			1	.WSHR,LOCK CLAMP:0.197 ID U/W 0.5 M CLP .(END ATTACHING PARTS)	95987	C191
-7	343-0008-00			1	.CLAMP,LOOP:0.5 ID,PLASTIC .(ATTACHING PARTS)	06915	6R CLEAR ROUND
-8	211-0504-00			1	.SCREW,MACHINE:6-32 X 0.250,PNH,STL	TK0435	ORDER BY DESCR
-9	210-0863-00			1	.WSHR,LOCK CLAMP:0.197 ID U/W 0.5 M CLP .(END ATTACHING PARTS)	95987	C191
-10	426-1350-01	B010100	B060611	1	.MOUNT,PWR SPLY:FINISHED	TK1319	N/S
	426-1574-01	B060612		2	.MOUNT,PWR SPLY:BLACK POLYURETHANE .(ATTACHING PARTS)	TK1319	N/S
-11	220-0555-00			2	.NUT,PLAIN,HEX:8-32 X 0.25 HEX,STL CD PL	TK0433	ORDER BY DESCR
	210-0009-00			2	.WASHER,LOCK:#8 INTL,0.02 THK,STL .(END ATTACHING PARTS)	77900	1206-00-00-0541C
-12	200-2147-00	B010100	B059999	1	.COVER,PWR SPLY:TOP & BOTTOM	80009	200-2147-00
	200-2147-01	B060000	B100611	1	.COVER,PWR SPLY:TOP & BOTTOM	80009	200-2147-01
	200-2147-02	B100612		1	.COVER,PWR SPLY:TOP & BOTTOM .(ATTACHING PARTS)	80009	200-2147-02
-13	211-0504-00			6	.SCREW,MACHINE:6-32 X 0.250,PNH,STL .(END ATTACHING PARTS)	TK0435	ORDER BY DESCR
-14	----- -----			1	.CKT BOARD ASSY:INVERTER(SEE A62 REPL) .(ATTACHING PARTS)		
-15	211-0008-00			4	.SCREW,MACHINE:4-40 X 0.25,PNH,STL	99907	ORDER BY DESCR
-16	212-0537-00			4	.SCREW,MACHINE:10-32 X 0.375,PNH,STL	TK0435	ORDER BY DESCR
-17	210-0858-00			4	.WASHER,LOCK:#10 SPLIT,0.047 THK,SI BRZ	80009	ORDER BY DESCR
-18	210-1008-00			4	.WASHER,FLAT:0.2 ID X 0.438 OD X 0.14 THK .(END ATTACHING PARTS)	73734	ORDER BY DESCR
					.CKT BOARD ASSY INCLUDES:		
-19	131-3608-00	B010100	B100940	7	..TERMINAL,PIN:0.365 L X 0.025 SQ BRZ GLD PL	22526	48283-036
	131-3608-00	B100941		9	.TERMINAL,PIN:0.365 L X 0.025 SQ BRZ GLD PL	22526	48283-036
	214-0579-00	B100941		7	..TERM,TEST POINT:BRS CD PL	80009	214-0579-00
	348-0120-00	B100941		1	..STRIP,TIEDOWN,E:5.5 L NYLON,PLASTIC	08263	SST1.5M
	131-0609-00			6	..TERMINAL,PIN:0.46 L X 0.025 SQ PH BRZ	22526	48283-029
-20	----- -----			2	..COIL,RF:(SEE L210 AND L410 REPL) ..(ATTACHING PARTS)		
-21	210-0586-00			2	..NUT,PL,ASSEM WA:4-40 X 0.25,STL CD PL	78189	211-041800-00
-22	210-0994-00			2	..WASHER,FLAT:0.125ID X 0.250D X 0.022	86928	B371-203-20
-23	211-0189-00			2	..SCREW,MACHINE:4-40 X 0.875,PNH,MYL	78385	ORDER BY DESCR
-24	200-0947-00			2	..COV,INSERT,HOOD:BLK,0.561 OD X 0.18 H,PLS ..TC ..(END ATTACHING PARTS)	80009	200-0947-00
-25	136-0183-00			2	..SKT,PL-IN ELEK:TRANSISTOR,3 CONTACT	80009	136-0183-00
-26	----- -----			1	..SEMICOND DVC,DI:(SEE VR520 REPL) ..(ATTACHING PARTS)		
-27	210-0410-00			1	..NUT,PLAIN,HEX:10-32 X 0.312,BRS CD PL	73743	29-2000-402
-28	210-0858-00			1	..WASHER,LOCK:#10 SPLIT,0.047 THK,SI BRZ	86928	ORDER BY DESCR
-29	210-1008-00			1	..WASHER,FLAT:0.2 ID X 0.438 OD X 0.14 THK ..(END ATTACHING PARTS)	73734	ORDER BY DESCR
-30	407-1933-00			1	..BRACKET,DIODE:ALUMINUM ..(ATTACHING PARTS)	80009	407-1933-00
-31	210-0586-00			2	..NUT,PL,ASSEM WA:4-40 X 0.25,STL CD PL	78189	211-041800-00
-32	211-0008-00			2	..SCREW,MACHINE:4-40 X 0.25,PNH,STL ..(END ATTACHING PARTS)	99907	ORDER BY DESCR

Fig. & Index No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Dscont	Qty	12345 Name & Description	Mfr. Code	Mfr. Part No.
5-33	131-1792-00			2	..CONN,RCPT,ELEC:PLGT REFER,12 NOM,0.045	27264	09-70-2121
-34	131-2205-00			1	..TERM,FEEDTHRU:4 PIN,INSULATED	27264	2402-401
-35	136-0514-00	B010100	B052504	2	..SKT,PL-IN ELEC:MICROCIRCUIT,8 DIP	09922	DILB8P-108
-36	136-0259-02	B010100	B050584	2	..SKT,PL-IN ELEC:MICROCKT,16 DIP,PCB MT	09922	DILB16P-108T
-37	136-0259-02	B010100	B052504	2	..SKT,PL-IN ELEC:MICROCKT,14 DIP,PCB MT	09922	DILB14P-108T
	136-0259-02	B050585	B080713	1	..SKT,PL-IN ELEC:MICROCKT,14 DIP,PCB MT	09922	DILB14P-108T
	136-0728-00	B080714		1	..SKT,PL-IN ELEC:MICROCKT,14 CONTACT	09922	DILB14P-108
-38	136-0220-00	B010100	B050584	12	..SKT,PL-IN ELEC:TRANSISTOR 3 CONTACT	71785	133-23-11-034
	136-0220-00	B050585		5	..SKT,PL-IN ELEC:TRANSISTOR 3 CONTACT	71785	133-23-11-034
-39	----- -----			1	.CKT BOARD ASSY:LINE POWER(SEE 080 REPL)		
					.(ATTACHING PARTS)		
-40	211-0008-00			6	.SCREW,MACHINE:4-40 X 0.25,PNH,STL	93907	ORDER BY DESCR
					.(END ATTACHING PARTS)		
					.CKT BOARD ASSY INCLUDES:		
-41	343-0016-03			1	..CLAMP,LOOP:1.0 ID,PLASTIC	68915	E16 (CLEAR)
					..(ATTACHING PARTS)		
-42	210-0407-00			1	..NUT,PLAIN,HEX:6-32 X 0.25,BRS CD PL	73743	2038-402
-43	210-0055-02			1	..WASHER,LOCK:#6 SPLIT,0,031 THK,STL	81350	ORDER BY DESCR
-44	211-0510-00			1	..SCREW,MACHINE:6-32 X 0.375,PNH,STL	83385	ORDER BY DESCR
					..(END ATTACHING PARTS)		
-45	344-0236-00			2	..CLIP,SPR TNSN:XSTR MTG,CU BE BRIGHT DIP	80009	344-0236-00
-46	131-2182-00			1	..TERM SET,PIN:1 X 5,0.156 SPACING,RTANG	27264	09-47-1052
-47	131-0589-00			6	..TERMINAL,PIN:0.46 L X 0.025 SQ PH BRZ	22526	48283-029
-48	214-0579-00			1	..TERM,TEST POINT:BRS CD PL	80009	214-0579-00
-49	136-0220-00	B010100	B050587	1	..SKT,PL-IN ELEC:TRANSISTOR 3 CONTACT	71785	133-23-11-034
-50	136-0514-00	B010100	B050587	1	..SKT,PL-IN ELEC:MICROCIRCUIT,8 DIP	09922	DILB8P-108
-51	131-0608-00			5	..TERMINAL,PIN:0.386 L X 0.025 BRZ GLD PL	22526	48283-036
-52	136-0260-02	B010100	B050587	2	..SKT,PL-IN ELEC:MICROCKT,16 DIP,PCB MT	09922	DILB16P-108T
-53	136-0263-02	B010100	B050587	2	..SKT,PL-IN ELEC:MICROCKT,14 DIP,PCB MT	09922	DILB14P-108T
-54	131-1795-00			1	..CONN,RCPT,ELEC:CKT MT,STRAD,GLD PL	27264	09-62-3121
-55	----- -----			2	.CAP.,FXD,ELCTLT:(SEE C110,C310 REPL)		
					.(ATTACHING PARTS)		
-56	212-0510-00			2	.SCREW,MACHINE:10-32 X 0.312,PNH,STL	TK0435	ORDER BY DESCR
					.(END ATTACHING PARTS)		
-57	129-0963-00			1	.SPACER,POST:2.03 L,6-32 THD BOTH ENDS HL	80009	129-0963-00
					.(ATTACHING PARTS)		
-58	211-0504-00			2	.SCREW,MACHINE:8-32 X 0.250,PNH,STL	TK0435	ORDER BY DESCR
					.(END ATTACHING PARTS)		
-59	441-1411-00			1	.CHAS,DIGITIZER:INVERTER CIRCUIT BOARD	80009	441-1411-00
					.(ATTACHING PARTS)		
-60	211-0507-00			2	.SCREW,MACHINE:6-32 X 0.312,PNH,STL	83385	ORDER BY DESCR
					.(END ATTACHING PARTS)		
-61	----- -----			1	.CKT BOARD ASST:SOCKET(SEE 080 REPL)		
					.(ATTACHING PARTS)		
-62	211-0008-00			2	.SCREW,MACHINE:4-40 X 0.25,PNH,STL	93907	ORDER BY DESCR
					.(END ATTACHING PARTS)		
					.CKT BOARD ASSY INCLUDES:		
-63	129-0366-00			2	..SPACER,POST:0.218 L,4-40 THRD	80009	129-0366-00
-64	348-0033-00			1	..STRAP,RETAINING:0.075 DIA X 4.0 L	98159	2529-75-4
-65	----- -----			4	..TRANSISTOR:(SEE D118,D132,D318,D332 REPL)		
					..(ATTACHING PARTS)		
-66	211-0511-00	B010100	B089999	8	..SCREW,MACHINE:6-32 X 0.5,PNH,STL	TK0435	ORDER BY DESCR
	211-0817-00	B090000		8	..SCREW,MACHINE:4-40 X 0.75,PNH,STL	93907	ORDER BY DESCR
	210-0586-00	B090000		8	..NUT,PL,ASSEM WA:4-40 X 0.25,STL CD PL	78189	211-041800-00
					..(END ATTACHING PARTS)		
	361-0122-00	B090000		8	..SPACER,SLEEVE:0.125 L X 0.12 ID,035	80009	361-0122-00
	210-0803-00	B090000		8	..WASHER,FLAT:0.15 ID X 0.375 OD X 0.032	12327	ORDER BY DESCR
	210-0585-00	B090000		8	..WASHER,SHLDR:0.164 ID X 0.375 OD X 0.070	74521	ORDER BY DESCR
-67	386-0979-00			4	..INSULATOR,PLATE:TRANSISTOR,MICA	16037	8130
-68	361-0839-00			1	..SPACER,PLATE:HEAT EXCHANGER	80009	361-0839-00
-69	136-0361-00	B010100	B089999	4	..SPACER,XSTR:TO-3 OR TO-66	80009	136-0361-00
-70	136-0384-00	B010100	B089999	8	..SOCKET,PIN TERM:U/W 0.04 DIA PINS	00779	52120
-71	131-0847-00	B010100	B089999	8	..TERMINAL,STUD:0.435 L,BRASS	80009	131-0847-00
-72	344-0154-00			2	..CLIP,ELECTRICAL:FUSE,CKT BD MT	80009	344-0154-00
-73	131-1795-00			1	..CONN,RCPT,ELEC:CKT MT,STRAD,GLD PL	27264	09-62-3121
-74	255-0334-00			2	.PLASTIC CHANNEL:12.75 X 0.175 X 0.155	11897	122-37-2500
-75	407-1937-00			1	.BRACKET,CAP.:	80009	407-1937-00

Fig. & Index No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Descnt	Qty	12345 Name & Description	Mfr. Code	Mfr. Part No.
5-					.(ATTACHING PARTS)		
-76	211-0504-00			1	.SCREW,MACHINE:6-32 X 0.250,PNH,STL	TKO435	ORDER BY DESCR
-77	211-0507-00			1	.SCREW,MACHINE:6-32 X 0.312,PNH,STL	83385	ORDER BY DESCR
					.(END ATTACHING PARTS)		
-78	129-0149-00			1	.SPACER,POST:3.406 L,6-32 INT BOTH ENDS,BL	80009	129-0149-00
					.(ATTACHING PARTS)		
-79	211-0504-00			1	.SCREW,MACHINE:6-32 X 0.250,PNH,STL	TKO435	ORDER BY DESCR
					.(END ATTACHING PARTS)		
-80	---- ----			AR	.CKT BOARD ASSY:RECT FILTER(SEE A86 REPL)		
					.(ATTACHING PARTS)		
-81	211-0008-00			3	.SCREW,MACHINE:4-40 X 0.25,PNH,STL	83907	ORDER BY DESCR
					.(END ATTACHING PARTS)		
					.CKT BOARD ASSY INCLUDES:		
					..COIL,RF:(SEE A86L026,L025,L024,L126,L254,		
					..L226,L234 REPL)		
					..(ATTACHING PARTS)		
	210-0586-00	B010100	B079999	7	..NUT,PL,ASSEM WA:4-40 X 0.25,STL CD PL	78189	211-041800-00
	210-0589-00	B080000		7	..NUT,SLFLKG,HEX:4-40 X 0.246,STL CD PL	TK0409	CFZZ0440
					..(END ATTACHING PARTS)		
-82	131-1009-00			2	..TERM SET,PIN:1 X 14,0.15 SPACING	22526	65561-114
-83	407-1605-00			1	..BRACKET,ANGLE:INVERTER CHASSIS,ALUMINUM	80009	407-1605-00
					..(ATTACHING PARTS)		
-84	211-0000-00	B010100	B100839	3	..SCREW,MACHINE:4-40 X 0.25,PNH,STL	83907	ORDER BY DESCR
	211-0000-00	B100840		2	..SCREW,MACHINE:4-40 X 0.25,PNH,STL	83907	ORDER BY DESCR
	211-0207-00	B100840		1	..SCR,ASSEM WSHR:4-40 X 0.312,PNH,STL,CD PL	78189	ORDER BY DESCR
					..(END ATTACHING PARTS)		
-85	131-2206-00			1	..CONN,RCPT,ELEC:CKT BD,6 CONT,FEMALE	27264	09-62-3041
-86	200-0847-00			14	..COV,INSERT,IC:BLK,0.581 OD X 0.18 H,PLS	80009	200-0847-00
					..TC		
-87	---- ----			2	..SEMICOND DEVICE:(SEE Q2125,Q224 REPL)		
					..(ATTACHING PARTS)		
-88	210-0412-00			2	..NUT,PLAIN,HEX:10-32 X 0.312,BRS CD PL	73743	ZX-2003-402
-89	210-0056-00			2	..WASHER,LOCK:#10 SPLIT,0.047 THK,SI BRZ	86928	ORDER BY DESCR
-90	210-0813-00			2	..WASHER,SHLDR:0.196 X 0.498 X 0.062 THK,FB	83309	ORDER BY DESCR
					..D		
					..(END ATTACHING PARTS)		
-91	---- ----			1	..SW,THERMOSTATIC:(SEE S5402 REPL)		
					..(ATTACHING PARTS)		
-92	210-0586-00			2	..NUT,PL,ASSEM WA:4-40 X 0.25,STL CD PL	78189	211-041800-00
-93	211-0008-00			2	..SCREW,MACHINE:4-40 X 0.25,PNH,STL	83907	ORDER BY DESCR
					..(END ATTACHING PARTS)		
-94	407-2656-00			1	..BRACKET,XSTR:ALUMINUM	80009	407-2656-00
					..(ATTACHING PARTS)		
-95	210-0586-00			4	..NUT,PL,ASSEM WA:4-40 X 0.25,STL CD PL	78189	211-041800-00
-96	211-0008-00			4	..SCREW,MACHINE:4-40 X 0.25,PNH,STL	83907	ORDER BY DESCR
					..(END ATTACHING PARTS)		
-97	131-1795-00			2	..CONN,RCPT,ELEC:CKT MT,RTANG,GLD PL	27264	09-62-3121
-98	407-1938-00			1	..BRACKET,CHASSIS:REGULATOR	80009	407-1938-00
					..(ATTACHING PARTS)		
-99	211-0008-00			3	..SCREW,MACHINE:4-40 X 0.25,PNH,STL	83907	ORDER BY DESCR
					..(END ATTACHING PARTS)		
-100	---- ----			1	.CKT BOARD ASSY:REGULATOR(SEE A80 REPL)		
					.(ATTACHING PARTS)		
-101	211-0008-00			6	.SCREW,MACHINE:4-40 X 0.25,PNH,STL	83907	ORDER BY DESCR
-102	210-0586-00	B010100	B060624	5	.NUT,PL,ASSEM WA:4-40 X 0.25,STL CD PL	78189	211-041800-00
	210-0408-00	B060625		5	.NUT,PLAIN,HEX:4-40 X 0.188,BRS CD PL	73743	12161-50
-103	210-0994-00			5	.WASHER,FLAT:0.125ID X 0.250 X 0.022	86928	8371-203-20
-104	210-1179-00			5	.WASHER,SHLDR:	13103	7721-7PPS
-105	211-0198-00			5	.SCREW,MACHINE:4-40 X 0.438,PNH,STL	TK0435	ORDER BY DESCR
-106	211-0097-00			3	.SCREW,MACHINE:4-40 X 0.312,PNH,STL	TK0435	ORDER BY DESCR
-107	210-1122-00			3	.WASHER,LOCK:0.12 ID,.015MIN,0.025 THK,STL	86928	ORDER BY DESCR
					.(END ATTACHING PARTS)		
					.CKT BOARD ASSY INCLUDES:		
-108	---- ----			1	..TRANSISTOR:(SEE Q844 REPL)		
					..(ATTACHING PARTS)		
-109	210-0586-00			2	..NUT,PL,ASSEM WA:4-40 X 0.25,STL CD PL	78189	211-041800-00
					..(END ATTACHING PARTS)		

Fig. & Index No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Discont	Qty	12345 Name & Description	Mfr. Code	Mfr. Part No.
5-110	355-0159-00			2	..TERMINAL,STUD:4-40 X 0.156 HEX X 0.58 L,S ..RS CD-SN-ZN PL	80009	355-0159-00
-111	136-0254-01	B010100	B111235	2	..SOCKET,PIN TERM:U/W 0.031 TO 0.04 DIO PIN	02079	1-331882-8
-112	344-0236-00			1	..CLIP,SPR TNSN:USED WITH CD 8E BRIGHT DIP	80009	344-0236-00
-113	131-1857-00			2	..TERM SET,PIN:30/0.025 SQ PIN,ON 0.1 CTRS	TK1403	002-3843-5010
-114	131-1792-00			2	..CONN,RCPT,ELEC:FLAT MOPER,12 MALE,0.045	22284	09-70-2121
-115	136-8269-02	B010100	B050599	1	..SKT,PL-IN ELEK:MICROCKT,14 DIP,PCB MT	09922	DILB14P-108T
-115	136-8514-00	B010100	B050599	1	..SKT,PL-IN ELEK:MICROCIRCUIT,8 DIP	09922	DILB8P-108
-117	386-8579-00	B010100	B101184	2	.INSULATOR,PLATE:TRANSISTOR,MICA	16037	8130
	342-0311-00	B101185		2	.INSULATOR,PLATE:TRANSISTOR,MICA	01295	64-21-023-212
-118	342-0202-00	B010100	B100775	6	.INSULATOR,PLATE:TRANSISTOR,MICA	91500	10-21-023-106
	342-0202-00	B100777		1	.INSULATOR,PLATE:TRANSISTOR,MICA	91500	10-21-023-106
	342-0203-00	B100777		5	.INSULATOR,PLATE:TRANSISTOR,MICA	18722	DF103C
-119	------ ------			1	.XFMR,PWR,SIPOH:(SEE T5404 REPL) .(ATTACHING PARTS)		
-120	210-0457-00			2	.NUT,PL,ASSEM NO:6-32 X 0.312,STL CD PL	78189	511-061800-CD
-121	211-0504-00			2	.SCREW,MACHINE:6-32 X 0.250,PNH,STL .(END ATTACHING PARTS)	1K0435	ORDER BY DESCR
-122	441-1412-00			1	.CHAS,DIGITIZER:REGULATOR CIRCUIT BOARD .(ATTACHING PARTS)	80009	441-1412-00
-123	211-0507-00			2	.SCREW,MACHINE:6-32 X 0.312,PNH,STL .(END ATTACHING PARTS)	83385	ORDER BY DESCR
-124	343-0003-00			1	.CLAMP,LOOP:0.25 ID,PLASTIC .(ATTACHING PARTS)	00911	EH CLEAR 90180
-125	211-0008-00			1	.SCREW,MACHINE:4-40 X 0.25,PNH,STL	93907	ORDER BY DESCR
-126	210-0934-00			1	.WASHER,FLAT:0.125ID X 0.250OD X 0.022	88928	3371-203-20
-127	210-0863-00			1	.WSHR,LOCK CLAMP:0.187 ID W/W 0.5 H CLP .(END ATTACHING PARTS)	95987	C191
-128	200-2135-01			1	.COVER,INSULATOR:STEEL .(ATTACHING PARTS)	80009	200-2135-01
-129	211-0008-00			2	.SCREW,MACHINE:4-40 X 0.25,PNH,STL .(END ATTACHING PARTS)	93907	ORDER BY DESCR
-130	348-0239-00			1	.GROMMET,PLASTIC:DK GRY,U-SHAPE,0.27 ID	80009	348-0239-00
-131	------ ------			1	.TRANSFORMER,RF:(SEE L5400 REPL) .(ATTACHING PARTS)		
-132	210-0586-00			1	.NUT,PL,ASSEM NO:4-40 X 0.25,STL CD PL	78189	211-041800-00
-133	210-0934-00			1	.WASHER,FLAT:0.125ID X 0.250OD X 0.022	88928	3371-203-20
-134	211-0018-00			1	.SCREW,MACHINE:4-40 X 0.875,PNH,STL	TK0435	ORDER BY DESCR
-135	200-0948-00			1	.CAP,INSERT,KNOB:BLK,0.766 OD X 0.98 H,PLST .CRVD,.135 ID HOLE THRU .(END ATTACHING PARTS)	80009	200-0948-00
-136	342-0409-01			1	.INSULATOR,PLATE:W/PINS,PLASTIC .(ATTACHING PARTS)	80009	342-0409-01
-137	129-0273-00			3	.SPACER,POST:0.625 L,4-40 EA END,AL,0.188 O .D .(END ATTACHING PARTS)	80009	129-0273-00
-138	131-0827-00			4	.TERMINAL,PIN:0.55 L X 0.025 SQ PH BRZ	22526	48283-029
-139	129-0457-00			2	.SPACER,POST:1.07 L,4-40 TAP/STUD,BRS,0.188 .(ATTACHING PARTS)	80009	129-0457-00
-140	211-0012-00			4	.SCREW,MACHINE:4-40 X 0.375,PNH,STL .(END ATTACHING PARTS)	TK0435	ORDER BY DESCR
-141	------ ------			1	.SWITCH,SLIDE:(SEE S5401 REPL) .(ATTACHING PARTS)		
-142	210-0457-00			2	.NUT,PL,ASSEM NO:6-32 X 0.312,STL CD PL	78189	511-061800-03
-143	211-0510-00			2	.SCREW,MACHINE:6-32 X 0.375,PNH,STL .(END ATTACHING PARTS)	83385	ORDER BY DESCR
-144	361-0838-00			1	.SPACER,SWITCH:0.125 X 2.35 X 1.0,AL	80009	361-0838-00
-145	210-0202-00			2	.TERMINAL,LUG:0.148 ID,LOCKING,BRZ TIN PL .(ATTACHING PARTS)	86928	6-373-158-2
-146	210-0407-00			2	.NUT,PLAIN,HEX:6-32 X 0.25,BRS CD PL .(END ATTACHING PARTS)	73743	3038-402
-147	200-1903-00			1	.COVER,PNOT:POWER SWITCH	80009	200-1903-00
-148	200-0237-03			1	.COVER,FUSE:	80009	200-0237-03
-149	352-0362-00			1	.FUSE,EXTR POST:3AG,200,300V	75915	345003M/901-002
	210-1039-00			1	.WASHER,LOCK:0.521 ID,INT,0.025 THK,SST	24931	ORDER BY DESCR
-150	------ ------			1	.SWITCH,ROCKER:(SEE S5400 REPL)		
-151	346-0045-00			2	.STRAP,CONN EQV:BNC ONE END,POLYPROPYLENE	80009	346-0045-00

Fig. & Index No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Descont	Qty	12345 Name & Description	Mfr. Code	Mfr. Part No.
5-152	200-0870-00			2	.COVER,ELEC CONN:BNC,NON-SHORTING	81896	0189-5015
-153	131-0274-00			1	.CONN,RCPT,ELEC:BNC,FEMALE	24931	28JR209-1 (P-23
-154	131-0955-00			1	.CONN,RCPT,ELEC:BNC,FEMALE	13511	31-273
-155	131-1084-00			1	.CONN,RCPT,ELEC:PWR,MALE,250VAC,15A	82930	0367
-156	200-2222-00			1	.GUARD,FDM: .(ATTACHING PARTS)	81041	6-182-033
-157	210-0457-00			4	.NUT,PL,ASSEM NO:6-32 X 0.312,STL CD PL	78189	511-061800-00
-158	211-0514-00			4	.SCREW,MACHINE:6-32 X 0.750,PNH,STL .(END ATTACHING PARTS)	TK0435	1541-300
-159	407-1934-00	B010100	B010303	1	.BRACKET,FDM:ALUMINUM	80009	407-1934-00
	407-1934-01	B010304		1	.BRACKET,FDM:ALUMINUM .(ATTACHING PARTS)	80009	407-1934-01
-160	211-0507-00			4	.SCREW,MACHINE:6-32 X 0.312,PNH,STL .(END ATTACHING PARTS)	83385	ORDER BY DESCR
	386-4641-00	B090000		1	.SUPPORT,CKT BD:PLASTIC,ACETAL .(ATTACHING PARTS)	TK1319	N/A
	211-0523-00	B080000		1	.SCREW,MACHINE:6-32 X 0.875,FLH,100 DEG,STL	04348	ORDER BY DESCR
	210-0457-00	B080000		1	.NUT,PL,ASSEM NO:6-32 X 0.312,STL CD PL .(END ATTACHING PARTS)	78189	511-061800-00
-161	---- ----			1	.FDM,VENTILATION:(SEE 85400 REPL)		
-162	406-0903-00			2	.BRACKET,HOLE:CHASSIS LATCH,ALUMINUM .(ATTACHING PARTS)	80009	406-0903-00
-163	211-0504-00			2	.SCREW,MACHINE:6-32 X 0.250,PNH,STL .(END ATTACHING PARTS)	TK0435	ORDER BY DESCR
-164	333-2409-00			1	.PANEL,REAR:	80009	333-2409-00
-165	179-2611-00			1	.WIRING HARNESS:POWER SUPPLY	80009	179-2611-00
-166	206-0748-00			1	..CONN BODY,PLUG:CKT BD,6 CONT,W/D LKG RAMP	27264	2139-052
-167	131-1790-00			3	..CONTACT,ELEC:18-24 AWG,BRASS GOLD PL	27264	08-55-0105
	343-0548-00			6	..STRAP,TIEDOWN,L:0.091 W X 4.0 L,ZYTEL	06383	PLT1N
	198-3865-00			1	.WIRE SET,ELEC:	80009	198-3865-00
-168	131-0707-00			43	..CONTACT,ELEC:22-26 AWG,BRS,CU BE GLD PL	22526	47439-000
	131-0792-00			36	..CONNECTOR,TERM:18-20 AWG,CU BE GOLD PL	22526	46221
-169	134-0153-00			6	..KEY,CONN PLUG:MINI LATCH HOUSING,PLASTIC	80009	134-0153-00
-170	352-0161-00			2	..HLDR,TERM CONN:3 WIRE,BLACK	80009	352-0161-00
-171	352-0165-04			2	..HLDR,TERM CONN:7 WIRE,YELLOW	80009	352-0165-04
-172	352-0167-00			1	..HLDR,TERM CONN:9 WIRE,BLACK	80009	352-0167-00
	352-0167-05			2	..HLDR,TERM CONN:9 WIRE,GREEN	80009	352-0167-05
-173	352-0206-00			6	..HLDR,TERM CONN:10 WIRE,BLACK	80009	352-0206-00
	198-5257-00	B090000		1	..WIRE SET,ELEC: ..(FROM B080430 TO A62P812)	80009	198-5257-00
	131-0707-00			46	...CONTACT,ELEC:22-26 AWG,BRS,CU BE GLD PL	22526	47439-000
	134-0153-00			6	...KEY,CONN PLUG:MINI LATCH HOUSING,PLASTIC	80009	134-0153-00
	175-3014-00			1	...CA ASSY,SP,ELEC:10,22 AWG,10.0 L,RIBBON	80009	175-3014-00
	175-8956-00			1	...CA ASSY,SP,ELEC:10,22 AWG,10.0 L,RIBBON	80009	175-8956-00
	175-8957-00			1	...CA ASSY,SP,ELEC:7,22 AWG,10.0 L,RIBBON	80009	175-8957-00
	175-8958-00			1	...CA ASSY,SP,ELEC:5,22 AWG,10.0 L,RIBBON	80009	175-8958-00
-174	352-0390-01			2	...HLDR,TERM CONN:38 WIRE,DBL ROW,BLACK	22526	65043-086
-175	175-0825-00			AR	..CABLE,SP,ELEC:2,26 AWG,STRD,PVC JKT,GRN	80009	175-0825-00
-176	175-0863-00			AR	..CABLE,SP,ELEC:5,22 AWG,STRD,PVC JKT,GRN	TK0846	DSCF22K7-88T
-177	175-0871-00			AR	..CABLE,SP,ELEC:7,26 AWG,STRD,PVC JKT,GRN	08251	111-2559-972
	175-08[illegible]-00			AR	..CABLE,SP,ELEC:7,22 AWG,STRD,PVC INSUL,GRN	TK0846	DSCF22K7-88T
-178	175-0832-00			AR	..CABLE,SP,ELEC:9,26 AWG,STRD,PVC JKT,GRN	08251	111-2559-956
-179	175-0859-00			AR	..CABLE,SP,ELEC:10,22 AWG,STRD,PVC,GRN	08251	SS-1022(1051)0C

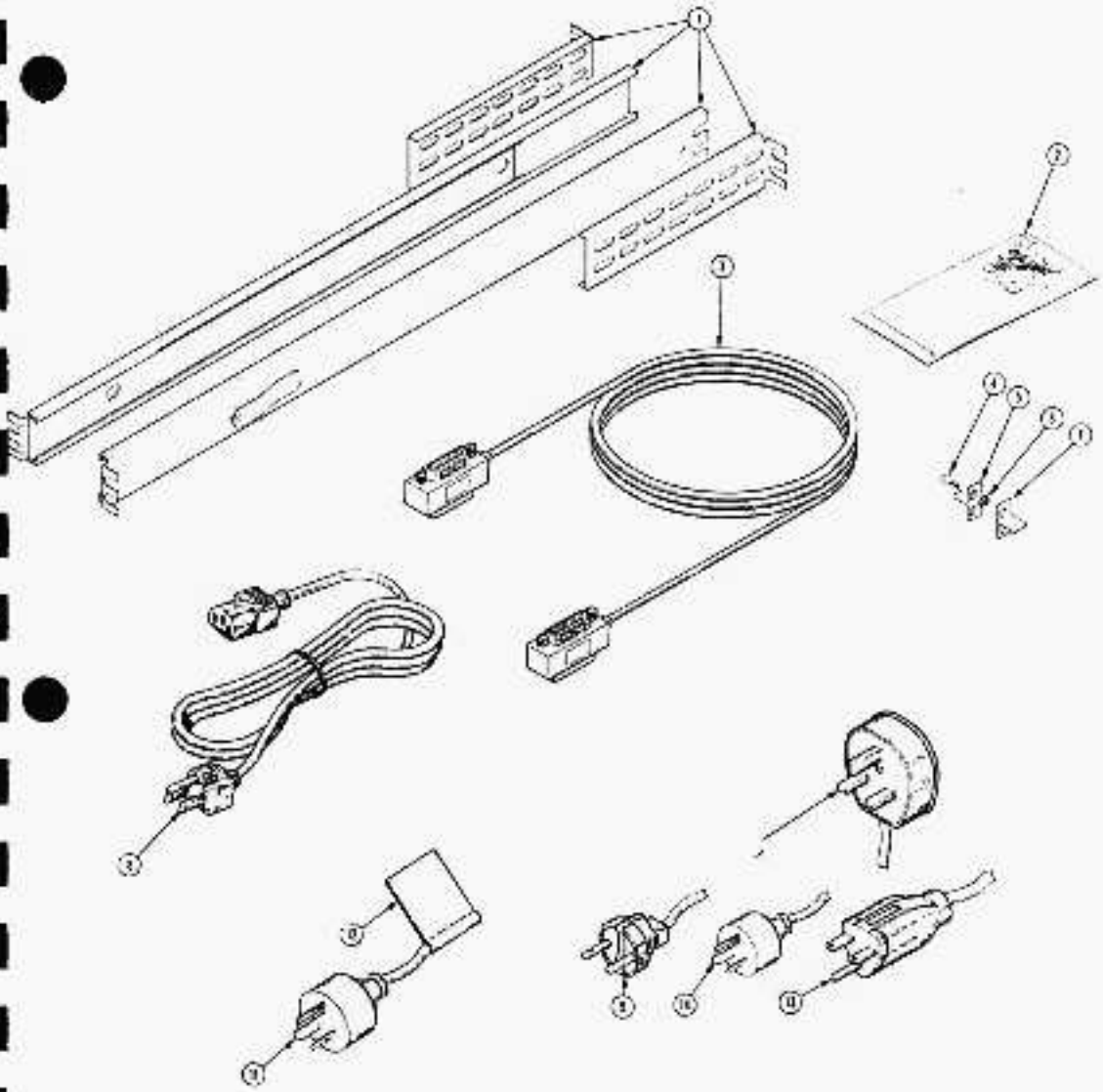


Fig. & Index No.	Tektronix Part No.	Serial/Assembly No. Effective	Serial/Assembly No. Discont	Qty	12345 Name & Description	Mfr. Code	Mfr. Part No
8-1	351-0375-00	B010100	B070688	EA	SLIDE,DMR,EXT:24.0 X 1.69	80009	351-0375-00
	351-0375-01	B070689		EA	SLIDE,DMR,EXT:W/CLOSED MOUNTING SLOTS	80009	351-0375-01
-2	016-0099-00			1	HDW KIT,ELEX EQ:RACKMOUNTING HDW	80009	016-0099-00
-3	012-0630-03			1	CABLE,INTCON:2.0W L (NOT USED ON OPTION 30)	74868	AC30147-102
	020-0398-00			1	COMPONENT KIT:	80009	020-0398-00
-4	212-0615-00			6	.SCREW,CAP:10-32 X 0.625,SCH,STL	83385	ORDER BY DESCR
-5	105-0757-00			1	.STRIKE,LATCH:LEFT	80009	105-0757-00
-6	220-0410-00			4	.NUT,PL,ASSEM WA:10-32 X 0.375 HEX,STL	78189	511-101800-50
-7	105-0758-00			1	.STRIKE,LATCH:RIGHT	80009	105-0758-00
-8	161-0066-00			1	CABLE ASSY,PWR,:3,18AWG,115V,60.0 L	15428	CA8481, FHBX81
	161-0066-01	B010100	B050842	1	CABLE ASSY,PWR,:3,18 AWG,230V,90.0 L (OPTION 09 ONLY)	80009	161-0066-01
-9	161-0066-09	B060843		1	CABLE ASSY,PWR,:3,0.75MM SQ,220V,90.0 L (OPTION 01 ONLY)	53109	86511000
-10	161-0066-10	B060843		1	CABLE ASSY,PWR,:3,0.75MM SQ,240V,90.0 L (OPTION 02 ONLY)	TK1373	24230
-11	161-0066-11	B060843		1	CABLE ASSY,PWR,:3,0.75MM,240V,90.0 L (OPTION 03 ONLY)	53109	ORDER BY DESCR
-12	334-3985-00	B060843		1	MARKER,IDENT:MARKED CAUTION (OPTION 03 ONLY)	80009	334-3985-00
-13	161-0066-12	B060843		1	CABLE ASSY,PWR,:3,18 GAG,250V,90.0 L NORTH AMERICAN (OPTION 04 ONLY)	70903	CH-77993
-14	161-0154-00	B060843		1	CABLE ASSY,PWR,:3,0.75MM SQ,240V,6A,2.5M L (OPTION 05 ONLY)	53109	86515000
	070-2384-01			1	MANUAL,TECH:OPERATORS	80009	070-2384-01
	070-2407-02			1	MANUAL,TECH:SERVICE	80009	070-2407-02
	070-2385-03			1	MANUAL,TECH:SERVICE	80009	070-2385-03
	070-5077-02			1	MANUAL,TECH:GUIDE,7912AD INSTR INTFC	80009	070-5077-02

MANUAL CHANGE INFORMATION

At Tektronix, we continually strive to keep up with latest electronic developments by adding circuit and component improvements to our instruments as soon as they are developed and tested.

Sometimes, due to printing and shipping requirements, we can't get these changes immediately into printed manuals. Hence, your manual may contain new change information on following pages.

A single change may affect several sections. Since the change information sheets are carried in the manual until all changes are permanently entered, some duplication may occur. If no such change pages appear following this page, your manual is correct as printed.

Tektronix
COMMITTED TO EXCELLENCE

MANUAL CHANGE INFORMATION

Date: August 10, 198 Change Reference: M62567

Product: 7912AD Manual Part No.: 070-2385-00

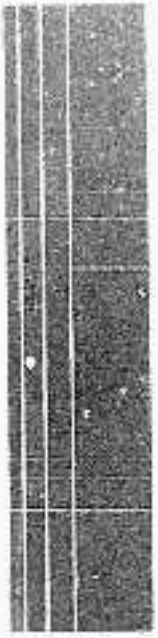
DESCRIPTION

These changes are effective at serial number B112293:

	Circuit #	Part Number	Description
Remove:	A32	670-4377-01	VIDEO PREAMP BOARD
		671-4377-00	Board subassembly
		675-4377-00	Circuit-board kit
Add:	A32	670-4377-02	VIDEO PREAMP BOARD
		671-4377-01	Board subassembly
		675-4377-01	Circuit-board kit

Replaceable Parts List:

	Circuit #	Part Number	Description
Remove:	R1958	301-0241-00	Resistor, 240 ohms, 5%, 0.5W
	R1959	308-0553-00	Resistor, 680 ohms, 1%, 3W
Add:	R1958	301-0161-00	Resistor, 160 ohms, 5%, 0.5W
	R1959	308-0552-00	Resistor, 750 ohms, 1%, 3W



7912AD PROGRAMMABLE DIGITIZER

PROGRAMMING AID

Tektronix

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070-2428-00

7912AD COMMANDS

Header	Argument	Description	Set Only	Query Only
MOD[E]	TV	Set to TV mode		
	DIG	Set to digital mode		
DIG	DAT[A]	Digitize data	X	
	GRA[T]	Digitize graticule only	X	
	SSW	Digitize single-sweep	X	
	DEF <NR1>	Digitize defects n times	X	
	SA <NR1>	Signal average 1 to 64 times	X	
GT	ON	Wait for GET to digitize		
	OFF	Do not wait for GET to digitize		
GRA[T]	ON	Write only the graticule		
	OFF	Reset graticule only mode		
XYZ	ON	Enable raw data display		
	OFF	Disable XYZ outputs		
	RAW	Enable raw data display		
	ATC	Enable ATC data display		
	SA	Enable signal-averaged data display		
	EDG[E]	Enable EDGE data display		
	DEF	Enable defects data display		
MA	<NR1>	Set main memory (0-1023)		

7912AD COMMANDS

Header	Argument	Description	Set Only	Query Only
GRI	<NR1>	Set graticule intensity (0-255)		
FOC	<NR1>	Set focus (0-63)		
SSW	ARM	Arm single-sweep trigger		
	OIS	In single-sweep mode, but disarmed		X
	NSS	Not in single-sweep mode		X
TV	ON	Turn on TV scale factors		
	OFF	Turn off TV scale factors		
REM	ON	Assert SRQ when REMOTE pressed		
	OFF	Do not assert SRQ when REMOTE pressed		
OPC	ON	Assert SRQ when operation completes		
	OFF	Do not assert SRQ when completed		
DEF	ON	Flag defects in raw vertical data		
	OFF	Reset defect flags		
LOA[D]	<BINARY>	Load defects array from IEEE 488 bus	X	
ATC		Average raw vertical data for center of trace	X	
INT	<NR1> or NONE	Max. no. of consecutive interpolated data points by ATC or DIG SA		X

7912AD COMMANDS

Header	Argument	Description	Set Only	Query Only
EDG[E]		Determine trace edges from raw vertical data	X	
TW	<NR1>	Set EDGE max. trace width		
RT	<NR1>	Set EDGE max. rate of increase		
SET	<MESSAGE>	Settings of programmable functions		X
TES[T]		Self-test data memory	X	
REA[D]	VER	Transmit vertical data array	X	
	PTR	Transmit pointers data array	X	
	SC1	Transmit channel 1 scale factors	X	
	SC2	Transmit channel 2 scale factors	X	
	ATC	Transmit averaged-to-center data	X	
	SA	Transmit signal-averaged data	X	
	EDG[E]	Transmit edge-determined data	X	
	DEF	Transmit defect data	X	
RLP	<NR1>	Repeat DIG DAT/READ PTR, VER sequence (0-65535)	X	
DUM[P]	RAW	Dump raw data memory area	X	
	PR	Dump processed data memory area	X	
VS1	<NR3> or NONE	Vertical channel 1 scale factor		X

7912AD COMMANDS

Header	Argument	Description	Set Only	Query Only
VS2	<NR3> or NONE	Vertical channel 2 scale factor		X
HS1	<NR3> or NONE	Horizontal channel 1 scale factor		X
HS2	<NR3> or NONE	Horizontal channel 2 scale factor		X
VU1	<CHARACTERS> or NONE	Vertical channel 1 units		X
VU2	<CHARACTERS> or NONE	Vertical channel 2 units		X
HU1	<CHARACTERS> or NONE	Horizontal channel 1 units		X
HU2	<CHARACTERS> or NONE	Horizontal channel 2 units		X
ERR	<NR1> or NONE	Error code indicated by status byte		X
SRQ	NULL	Service request query		X
ID	<CHARACTERS>	Identity of instrument		X

Numbers

<NR1> Integers with or without signs

<NR3> Signed scientific notation

IEEE 488 Interface Messages

The 7912AD responds to the following messages:

GTL, LLO, SDC, DCL, SPE, SPD, GET, IFC

The 7912AD does not respond to the following messages:

PPC, PPU, TCT

7912AD

Status Byte

	Service Requested			Busy				
	8	7	6	5	4	3	2	1
Remote request	1	X	0	X	0	0	0	1
No condition	0	0	0	X	0	0	0	0
Power up	0	1	0	X	0	0	0	1
Operation complete	0	X	0	X	0	0	1	0
Command error	0	1	1	X	0	0	0	1
Execution error	0	1	1	X	0	0	1	0
Internal error	0	1	1	X	0	0	1	1
Power fail error	0	1	1	X	0	1	0	0

Error Codes

Code	Description
NONE	No error to report
102	Invalid command header
103	Invalid command argument
201	Attempt to arm single sweep while time base is not in single-sweep mode
202	Checksum error for binary block input by LOAD command
203	Byte count error for binary block input by LOAD command
206	Attempt to digitize with invalid sweep rate (slower than 1 millisecond/division)
302	Fault detected in data memory or 2900 memory controller
304	Invalid or missing readout from plug-ins
305	Data memory (waveform) overwritten
306	No data to average
307	Delete array full
308	6800 MPU interrupt fault
401	Power failure is imminent