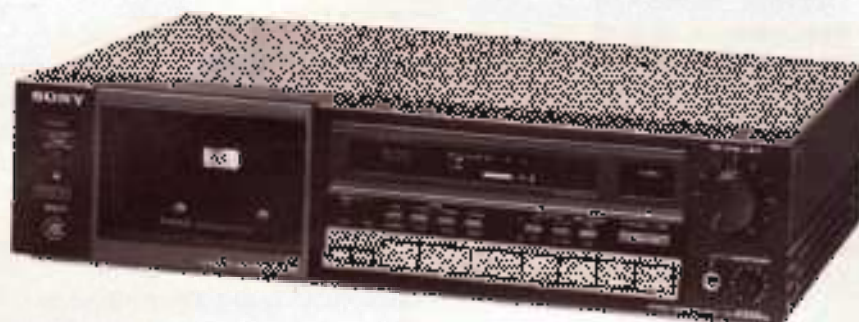


Head Term Rd Winch
Case #135
TC K 777

TC-K555ES

US Model
Canadian Model
AEP Model
UK Model
E Model



"Dolby" and the "dolby" symbol are the trade marks of
Dolby Laboratories Licensing Corporation. Dolby induction
system manufactured under license from Dolby Laboratories
Licensing Corporation.

STEREO CASSETTE DECK

SPECIFICATIONS

Recording system 4-track 2-channel stereo
Fast forward and rewind time
Approx. 50 sec. (with C-60 cassette)
Bias frequency 105 kHz
Signal to noise ratio (NAB, at peak level)

Wow and flutter 0.04 % WPM3 (NAB)
±0.12 % (DIN)

— Continued on page 2

Decibel	Dolby NR switch	10	A TYPE (N)	C TYPE (N)
TYPE IV (Sony METALLIC)		60 dB	67 dB	71 dB
TYPE III (Sony FeCr)		62 dB	69 dB	73 dB
TYPE II (Sony CrO ₂)		58 dB	65 dB	69 dB
TYPE I (Sony B-P)		56 dB	63 dB	66 dB

Total harmonic distortion

0.8 % (with Sony METALLIC and FeCr
cassettes)

Frequency response

- With TYPE IV cassette (Sony METALLIC)
 - 20 - 19,000 Hz
 - 20 - 16,000 Hz (-3 dB)
 - 25 - 14,000 Hz (±1 dB, 0 VU recording)
 - 25 - 19,000 Hz (DIN)
- With TYPE II cassette (Sony FeCr)
 - 20 - 19,000 Hz
 - 25 - 16,000 Hz (±2 dB)
 - 25 - 19,000 Hz (DIN)
- With TYPE I cassette (Sony CrO₂)
 - 20 - 16,000 Hz
 - 25 - 17,000 Hz (-3 dB)
 - 25 - 17,000 Hz (DIN)
- With TYPE III cassette (Sony B-P)
 - 20 - 16,000 Hz
 - 25 - 17,000 Hz (DIN)

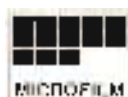
Cape Transport Mechanism Type	TCM-110C3
----------------------------------	-----------

SAFETY-RELATED COMPONENT WARNING

COMPONENTS IDENTIFIED BY SHADING AND MARK
S ON THE SCHEMATIC DIAGRAMS AND IN THE
PARTS LIST ARE CRITICAL TO SAFE OPERATION.
REPLACE THESE COMPONENTS WITH SONY PARTS
WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS
MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AVANT RAPPORT À LA SÉCURITÉ

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAÇÉE ET
UNE MARQUE S SUR LES DIAGRAMMES SCHE-
MATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES
POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REM-
PLACER CES COMPOSANTS QUE PAR DES PIÈCES
SONY DONT LES NUMÉROS SONT DONNÉS DANS CE
MANUEL OU DANS LES SUPPLÉMENTS FOLIOES PAR
SONY.



SONY

SERVICE MANUAL

Inputs	Line inputs (phono jacks) Sensitivity: 77.5 mV (-20 dB) Input impedance: 50 k ohms
Outputs	Line outputs (phono jacks) Output level: 0.435 V (-5 dB) at a load impedance of 50 k ohms Load impedance over 10 k ohms Headphone output Output level: variable from -20 dB to 50 dB at a load impedance of 8 ohms
General	
Power requirements	AFP model: 220 V ac, 50/60 Hz 1240 V ac adjustable by authorized Sony personnel UK model: 240 V ac, 50/60 Hz 1270 V ac adjustable by authorized Sony personnel US, Canadian model: 120 V ac, 60 Hz E model: 110, 120, 220 or 240 V ac adjustable, 50/60 Hz

Power consumption	28 watts
Dimensions	Approx. 430 x 115 x 285 mm (width) 17 x 4 1/4 x 11 1/2 inches including projecting parts and controls
Weight	Approx. 5.1 kg (11.3 lbs 8 oz)

Peak program meters	
Response range	50 dB to +8 dB
Frequency response	20-20,000 Hz ± 1.5 dB
Response time	1 millisecond
Decay time (from 0 dB to -20 dB)	750 milliseconds
Overload	none

$$0 \text{ dB} = 0.775 \text{ V}$$

FEATURES

Three-head system

Separate record and playback heads allow optimum gap settings and impedance ratings for distortion-free recording and greatly extended frequency response. For good tape-to-head contact the heads are mounted in one block so that each head is automatically adjusted for precise alignment. The three-head system also enables you to monitor the recorded tape while actually recording.

Newly-developed LA (LaserAmorphous) head

The record/playback head is made of a special amorphous magnetic alloy developed by Sony, and its cores are solidly welded by laser. This new highly durable head provides a wider dynamic range and a more extended frequency response, especially in the mid-frequency range. The head is designed to take full advantage of the potential of the metal tapes.

Closed-loop dual-capstan tape drive system

Two pairs of capstans and pinch rollers ensure uniform tape tension and stable tape-to-head contact. As a result, wow and flutter and modulation noise are greatly reduced.

Dolby C-type NR (noise reduction) system

In addition to the conventional B-type Dolby NR system, this cassette deck employs the newly-developed C-type Dolby NR system, which reduces tape noise twice as effectively as the B-type system. The C-type system also incorporates an ambidextrous network to increase the high-frequency dynamic range by 4 dB at 10 kHz.

Digital linear counter

This counter indicates the recording or playback time elapsed on the tape so that the tape can be precisely indexed. While conventional displays can only indicate the elapsed recording time, this display can indicate with a minus sign how much recording time remains.

Bright FL-display peak program meters

The peak program meters follow the transient peaks of the music and maintain the peak readings for about 4 seconds. This double indication makes it easy to set critical recording levels precisely.

Remote control operation

Using the optional RM-B5 or HM-B5 remote control unit, various operations—recording, playback, recording/playing operation, etc.—can be remotely controlled.

When the RM-B5 synchro remote control unit is used to connect the cassette deck with a turntable equipped with a synchro remote control pick, the operation of the cassette deck and the turntable will be synchronized.

Two motors

The two motor drive system assures accurate and stable tape transport. The capstan is driven by a 1.5-watt torque BS-1 brushless and slotless motor to keep wow and flutter low and to provide smooth torque.

Useful functions

- Record/playing function allows you to easily insert a moderate length tape space between selections.
- Auto play permits one-step rewinding and playback from the beginning of the tape and the memory function allows you to easily locate any desired point on the tape.
- A timer switch is provided to turn the deck on and off any number of times at preset 1-hour set or an optional 10-hour timer.

SAFETY CHECK-OUT (US Model)

After correcting the original service problem, perform the following safety check before releasing the set to the customer:

Check the antenna terminals, metal trim, "metalized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 220 or RCA WT-540A. Follow the manufacturer's instructions to use these instruments.
2. A battery-operated AC milliammeter. The Darr Precision 245 digital millimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Tnd are examples of a passive VOM that is suitable. Nearly all battery-operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Tnd are examples of a passive VOM that is suitable. Nearly all battery-operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

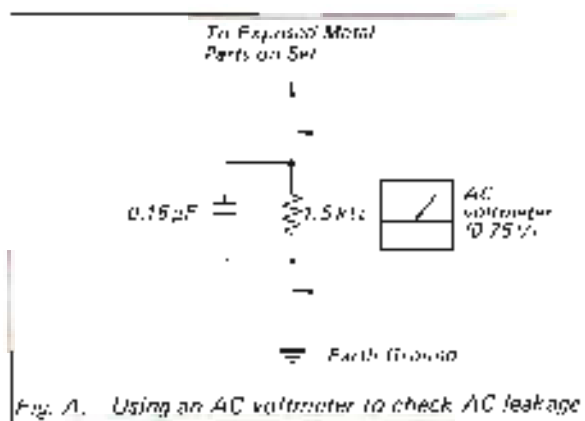
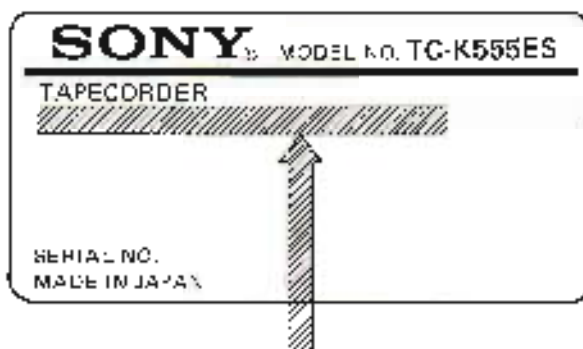


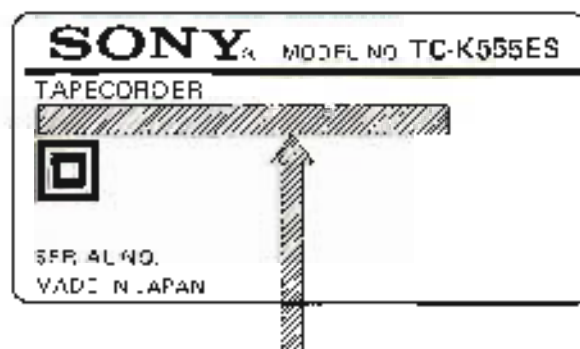
Fig. A. Using an AC voltmeter to check AC leakage

MODEL IDENTIFICATION

— Specification Label



US, Canadian model : AC 120 V 60 Hz 26 W



A&P model: AC 220 V ~ 50/60 Hz 26 W

UK model: AC 240 V ~ 50/60 Hz 26 W

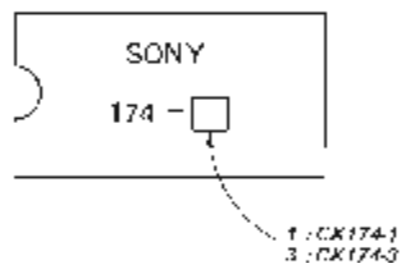
E model: AC 110, 120, 220, 240 V ~ 50/60 Hz 26 W

Caution on DOLBY IC (CX174) Replacement

This set uses eight Dolby ICs (CX174). (IC101, 102, 201, 202, 301, 302, 401, 402)

These ICs are either CX174-1 or CX174-3

When replacing these ICs, be sure to use the same ICs as the original one.



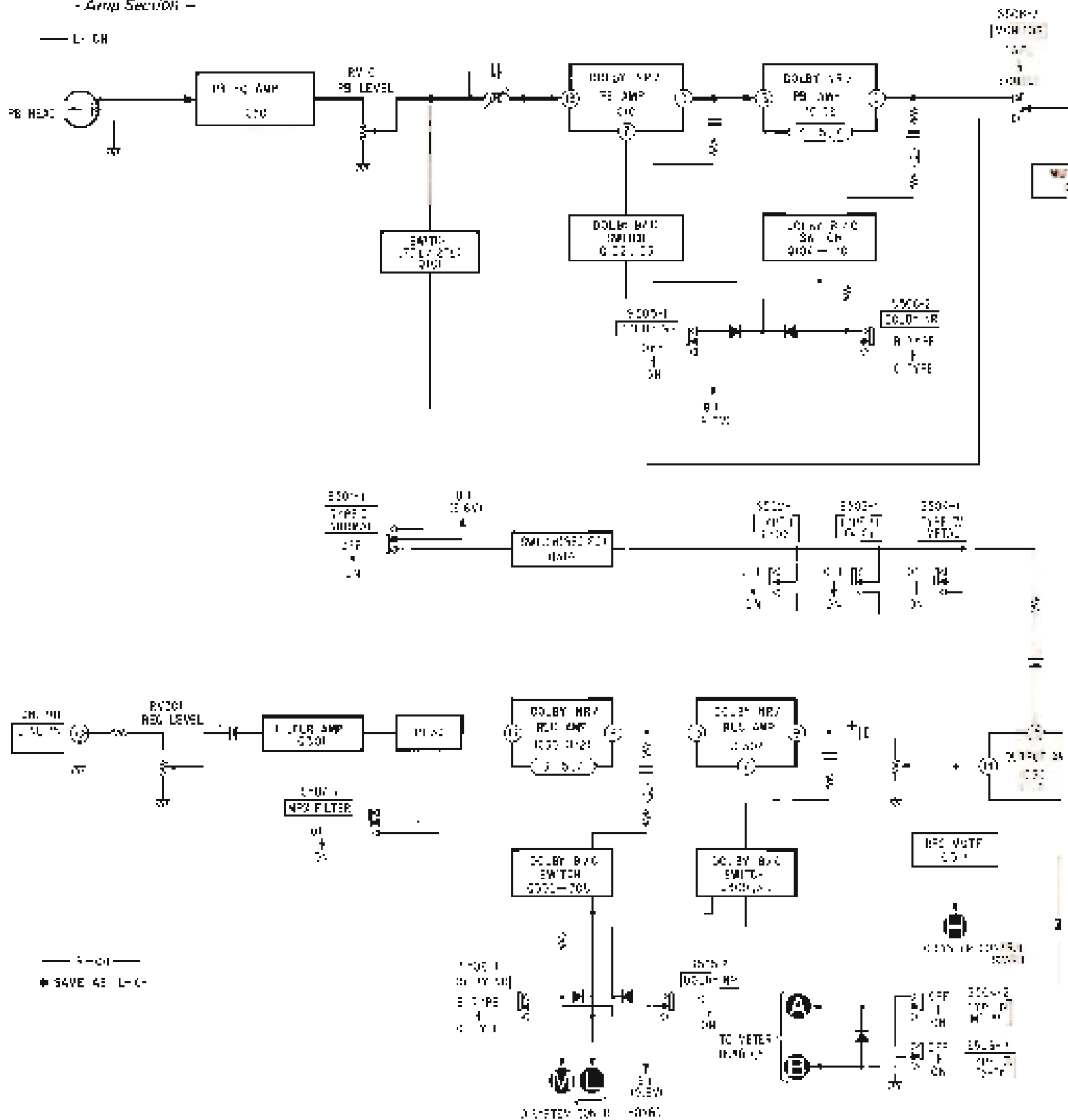
SECTION 1

OUTLINE

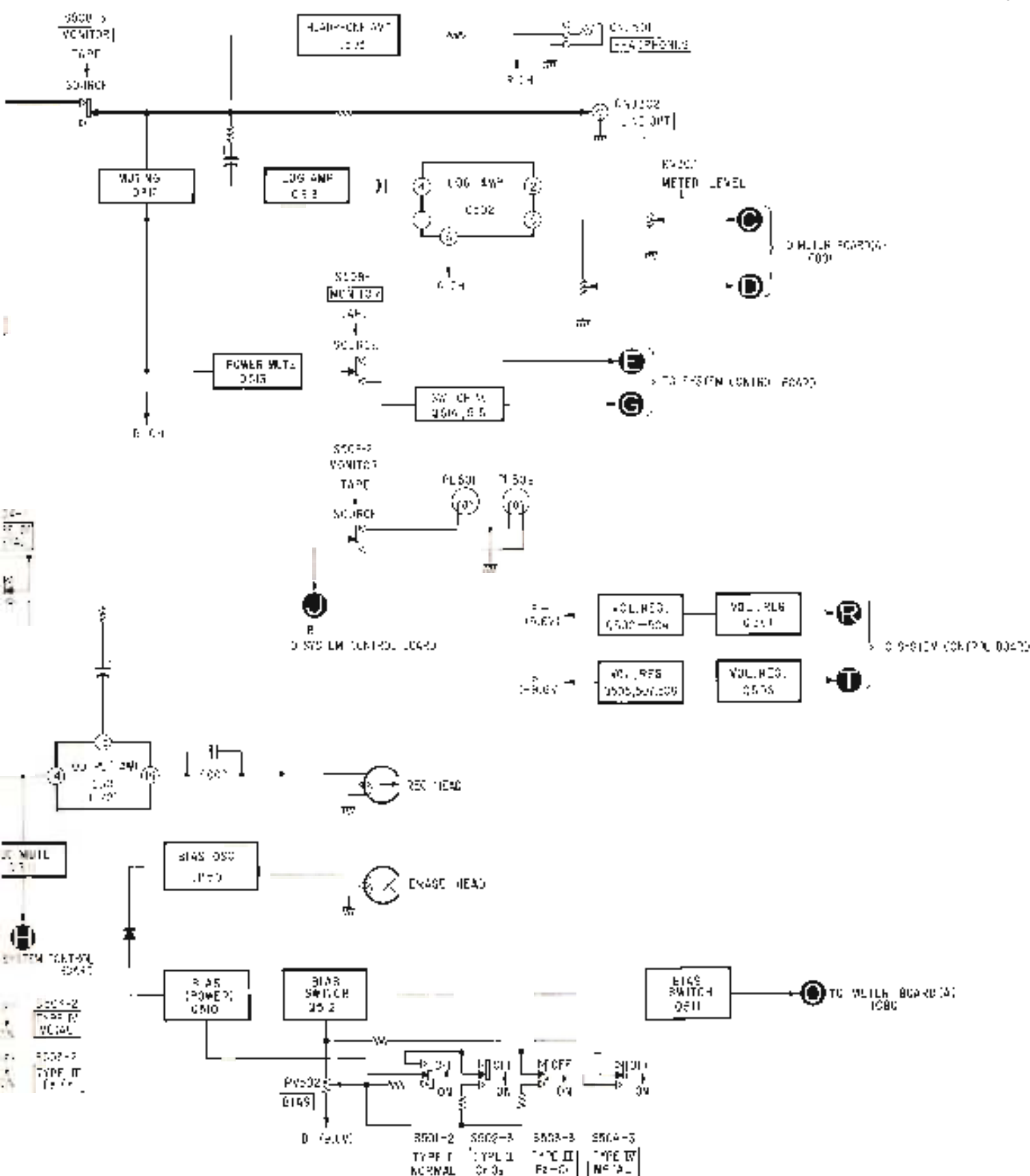
1-1. BLOCK DIAGRAMS

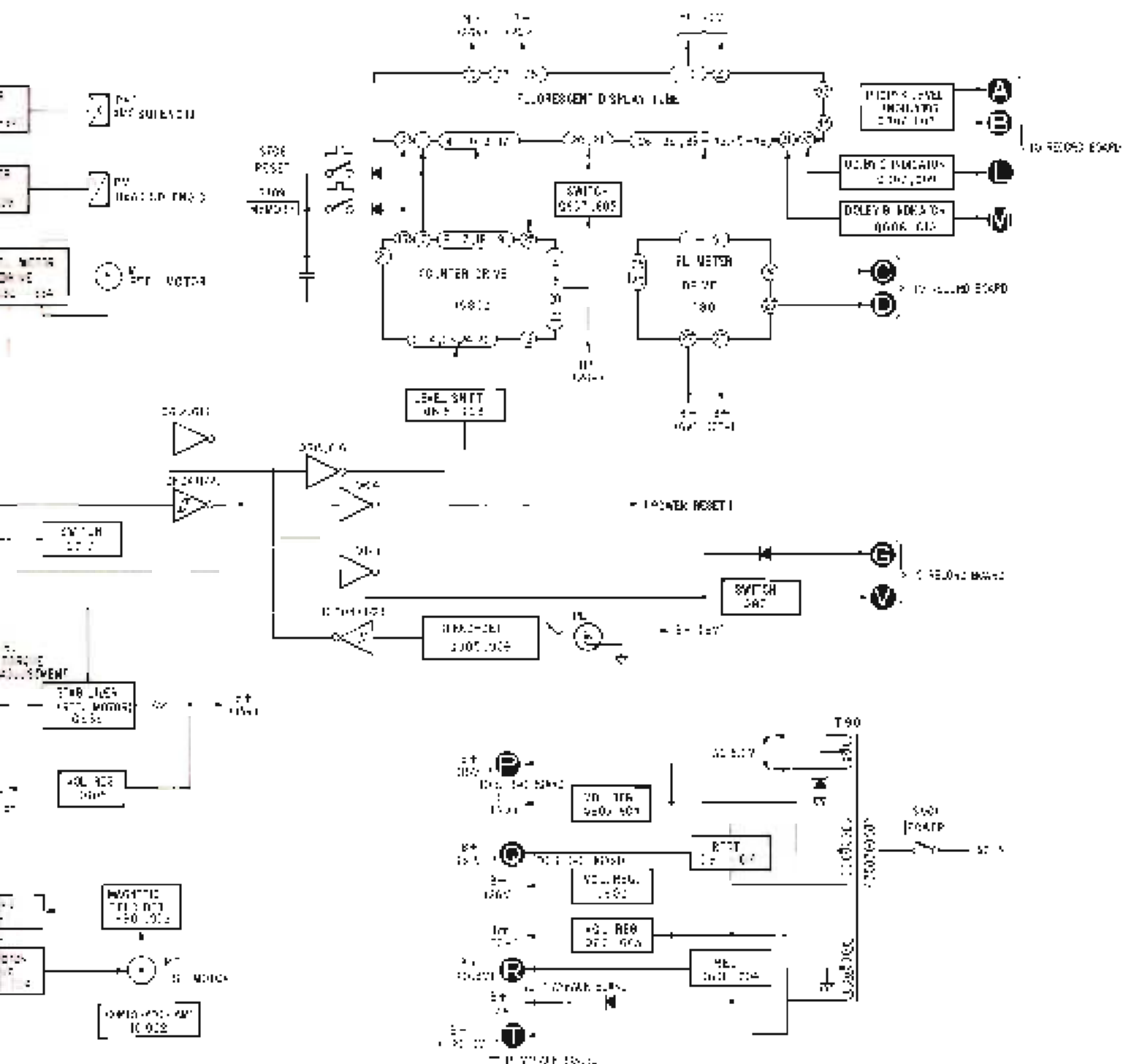
- Army Section -

— L. CH



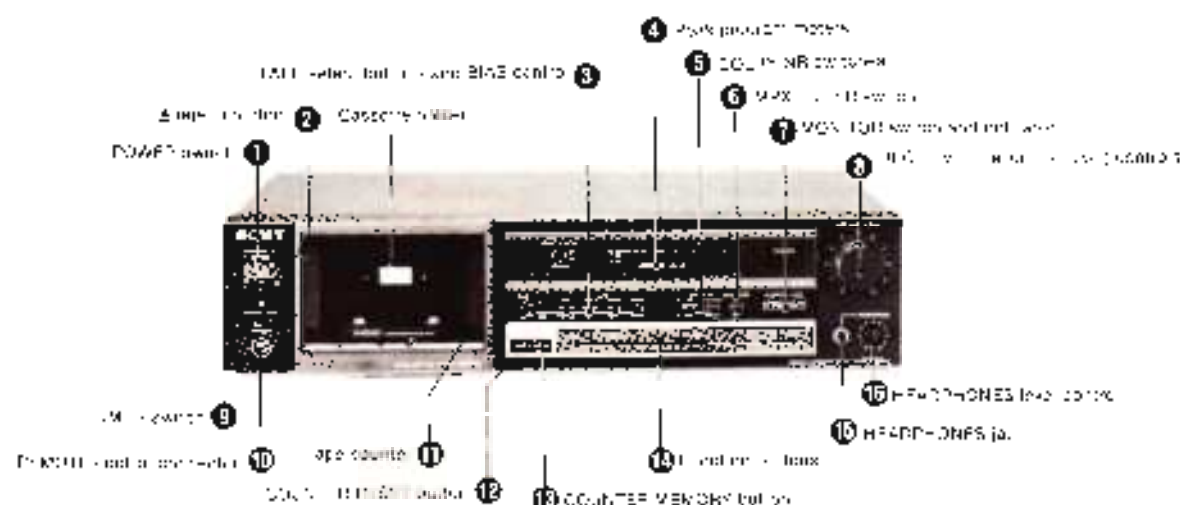
TC-K555ES





1-2. FUNCTION OF CONTROLS

The numbers in this photo are keyed to the following explanations:



① POWER switch

Depress this switch to turn on the power. The lamp in the cassette holder, the display of the peak program meter and the tape counter **A** light up. The indicator lamp of the eject button will blink for about 4 seconds, indicating that the function buttons are in operation during this period.

Press this switch again to turn the power off.

② (eject) button

Press this button to open the cassette holder.

③ TAPE select buttons and BIAS control

Depress one of the TAPE select buttons according to the type of tape to be used. When the appropriate button is depressed, the optimum audio balance and bias current settings are obtained for recording, and the optimum equalization settings are obtained for playback. When recording using a TYPE I (NC-RM), TYPE I (CR), or TYPE II (Fe-III) tape, adjust the BIAS control. See "Recommended settings for the TAPE select buttons and the BIAS control" on page 21.

④ Peak program meters

With the MONITOR switch set to SOURCE, the meters show the peak audio level of each channel, and to TAPE, the meters show recorded levels. They follow the transient peaks of high-level inputs that are too brief to be followed by conventional VU meters so that the optimum recording level can be accurately set. The highest input of each channel is held about 4 seconds on the scale, except when a higher peak occurs before 4 seconds have passed, in which case that peak is immediately displayed.

⑤ DOLBY NR switches

The left switch turns the Dolby NR (Noise Reduction) system on and off and the right switch selects either the B type or C type Dolby NR system.

To record with the Dolby NR process, depress the ON-OFF switch to the ON position and choose B-TYPE (L) or C-TYPE (L).

To record without the Dolby NR process, press the ON/OFF switch again to release.

When playing back, set these switches in the same position used in recording.

* The Dolby logo, the double-D logo and other trademarks of the Dolby Laboratories Licensing Corporation. Name and other system manufacturers' names please refer to their literature. Licensed to Original Inc.

⑥ MPX FILTER switch

Normally set this switch to OFF.

When recording FM stereo broadcasts with the Dolby NR system, set this ON. If the 19 kHz pilot signal and the 38 kHz subcarrier have not been adequately suppressed by the FM tuner or receiver.

If the tuner or the receiver suppresses such signals adequately (most high-quality tuners and receivers will), you do not have to set this switch to ON.

⑦ MONITOR switch and indicator

When adjusting the recording level, set this switch to the released position (SOURCE [L]) to allow monitoring of the source to be recorded. During playback, depress this switch (TAPE [L]) to allow monitoring of the recorded sound. According to the MONITOR switch setting, "SOURCE" or "TAPE" will appear in the indicator window.

During recording, use this switch to monitor either the source or the recorded sound.

② REC LEVEL (recording level) controls

These controls adjust the recording level. The knob nearest the panel is for the left channel and the other knob for the right channel. To adjust the level of the left (or right) channel only, turn the appropriate knob while holding the other knob.

③ TIMER switch

You can set the unit to record or play back at a predetermined time by connecting any commercially available timer. To record, set this timer switch to REC. To play back, set it to PLAY.

④ REMOTE control connector

Connect the optional RM-50 (wired) or RM-90 (wireless) remote control unit to operate the tape transport functions from a distance. Synchronized operation is as good as possible with selected Sony turntables, using the optional RM-85 synchro remote control unit. Read the instruction manual of your remote control unit before operating it.

⑤ Tape counter

This counter indicates the tape running time.

⑥ COUNTER RESET button

Press this button to reset the tape counter to "0.00."

⑦ COUNTER MEMORY button

Press to rewind the tape to the "0.00" point on the tape counter. The word "MEMORY" is displayed below the tape counter. Pressing the $\blacktriangleright$ button together with the $\blacktriangleleft$ button automatically starts playback from "0.00."

When you do not use the memory function, press this button again. The word "MEMORY" will disappear.

⑧ Function buttons

It is possible to switch directly from one mode to another. The indicator lamps light when the tape deck is in the forward, record or pause mode.

$\blacktriangleleft$ (rewind) button: Press this button to rewind the tape. This button is also used, with the $\blacktriangleright$ button, to initiate auto play.

$\blacksquare$ (stop) button: To stop the tape, press this button. The tape will stop automatically when it is completely wound in either direction.

$\blacktriangleright$ (forward) button: Press this button to play the tape back. To record, press this button while holding the $\blacksquare$ button down.

$\blacktriangleright\blacktriangleright$ (fast forward) button: Press this button to advance the tape rapidly.

$\blacktriangleright\blacksquare$ (record) button: Press this button together with the $\blacktriangleright$ button to start recording.

$\blacksquare$ (pause) button: To pause for a moment during recording or playback, press this button. This button is also used to control more precisely the start of recording and to release the record erasing mode.

$\blacktriangleleft\blacksquare$ (record multi tap) button: Press this button to eliminate unwanted material and to insert a blank space during recording.

⑨ HEADPHONES jack

Headphones may be inserted either to monitor the input signals to be recorded or to listen to a recording in the playback mode. Headphone volume is adjustable with the HEADPHONE control.

⑩ HEADPHONES level control

This control adjusts the headphone level. This setting does not affect the peak program meters or the output level of the LINE OUT jacks at the rear.

1-3. RECORDING

RECOMMENDED SETTINGS FOR THE TAPE SELECT BUTTONS AND BIAS CONTROL

Press the appropriate TAPE select button referring to the recommended settings listed below. When recording using a TYPE I (normal), TYPE II (CrO₂) or TYPE III (FtO₂) tape, adjust the BIAS control also.

While the settings are optimum for Sony cassettes, you may want to change them when using cassettes produced by other manufacturers.

Tape list (for Canada)

Tapes (GB and GCR)		Tape type
SONY: L44, SRP MAXELL: MC, MCXII, XLII SECTON: MASTER	AGFA: GRAND MASTER I FUJIFILM: FRI KODAK: KODAK TOK: AG, AG-1	TYPE I (NORMAL)
SONY: UCX8, SRP MAXELL: MC, MCXII, XLII SECTON: MASTER	AGFA: GRAND MASTER I FUJIFILM: FRI KODAK: KODAK TOK: SA, SA-1	TYPE I (CrO ₂)
SONY: F60 SECTON: MASTER II	AGFA: PROFESSIONAL II FUJIFILM: FRI KODAK: KODAK TOK: SA, SA-1	TYPE II (FtO ₂)
SONY: METALLIC	Other manufacturers	TYPE IV (METAL)

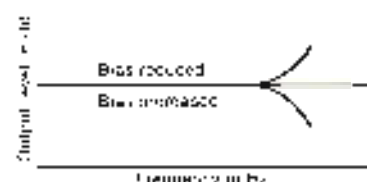
Tape list (for other countries)

Tapes (GB and GCR)		Tape type
SONY: L44, SRP BASF: L44, Metallized MAXELL: MC, MCXII, XLII SECTON: MASTER	AGFA: SUPER-FERRIC Chromatic FUJIFILM: FRI KODAK: KODAK TOK: KJ	TYPE I (NORMAL)
SONY: UCX8, SRP BASF: Professional I MAXELL: MC, MCXII, XLII SECTON: MASTER	AGFA: SUPER-FERRIC Chromatic FUJIFILM: FRI KODAK: KODAK TOK: SA, SA-1	TYPE I (CrO ₂)
SONY: F60 BASF: Professional II SECTON: MASTER II	AGFA: SUPER-FERRIC Chromatic FUJIFILM: FRI KODAK: KODAK TOK: SA, SA-1	TYPE II (FtO ₂)
SONY: METALLIC	Other manufacturers	TYPE IV (METAL)

The three-head system permits you to monitor the recorded sound while in the record mode, so that you can easily check the effects of various settings of the TAPE select buttons and the BIAS control.

BIAS control

This control regulates bias current for TYPE I (NORMAL), TYPE I (CrO₂) and TYPE III (FtO₂) cassettes. The full counterclockwise position decreases bias by about 20% from the center position and the full clockwise position increases it by about 20%. Generally, as bias is increased, extreme high frequencies will be suppressed. As bias is reduced, extreme high frequencies will be boosted. You can then find the appropriate bias setting for each brand of TYPE I, TYPE II and TYPE III cassettes.

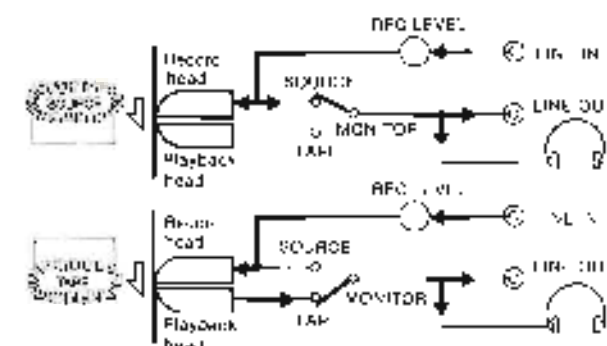


RECORD MONITORING

As this tape deck has separate record and playback heads, you can easily compare the source and the recorded sound in the recording mode by using the MONITOR switch. You can check the recording level and whether there is any contamination on the heads that is affecting the recording.

● If the corrected amplifier has a tape monitor selector, source/record comparison is possible with the amplifier's monitor selector. In this case, set the tape deck MONITOR switch to TAPE.

MONITOR switch setting and signal flow



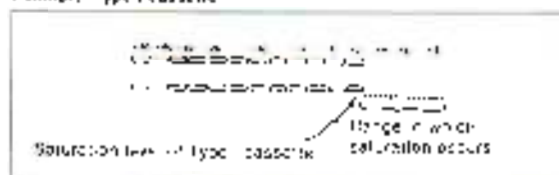
TO RECORD MATERIAL ONTO A SPECIFIC PORTION OF TAPE

When you want to re-record a specific portion of tape or to use new material between two points on a tape you will find it handy to be able to change directly from the playback to the record mode by pressing the ● REC button while holding the ► button down.

14. TO ADJUST THE RECORDING LEVEL

Adjust the recording level while monitoring on the peak program meters the input level of the program source to be recorded. If the recording level setting is too high, the recording will be distorted, and if the setting is too low, the recording will be noisy. The recording level should be set as high as possible while still avoiding distortion. This level will depend on the type of tape being used. When the TAPE button is pressed, the range above the saturation level of the selected type of tape is indicated by the red line. Generally speaking, adjust the recording level by making sure that the meters deflect only to the left end of the red line at the highest signal level.

Example: Type I cassette



Since the saturation level of any tape is lower in the higher frequencies than in the lower frequencies, the recording level may still be too high if adjusted in this way. If the program to be recorded contains many high frequency signals, this deviation has to be given to the program source to be recorded as well as to the characteristics of the cassette to be used, since each cassette, even cassettes using the same type of tape, may have different characteristics. The following table will provide you with a starting point in setting the recording level of various kinds of programs when using Sony cassettes.

Type of tape	Sony cassettes	Low and mid frequency programs (vocal, etc.)	Mid and high frequency programs (piano, guitar, etc.)
I	RHF	+ 3 dB	- 1 dB
	AHF	+ 4 dB	+ 2 dB
II	LCX	+ 3 dB	- 2 dB
II	FeCr	+ 5 dB	+ 1 dB
V	METALLIC	+ 6 dB	+ 6 dB

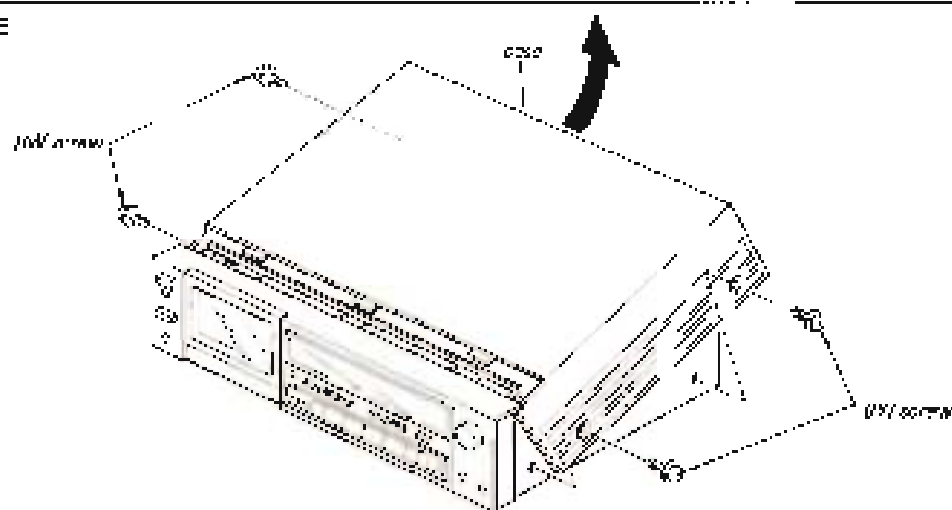
SECTION 2 DISASSEMBLY

TC-K555ES

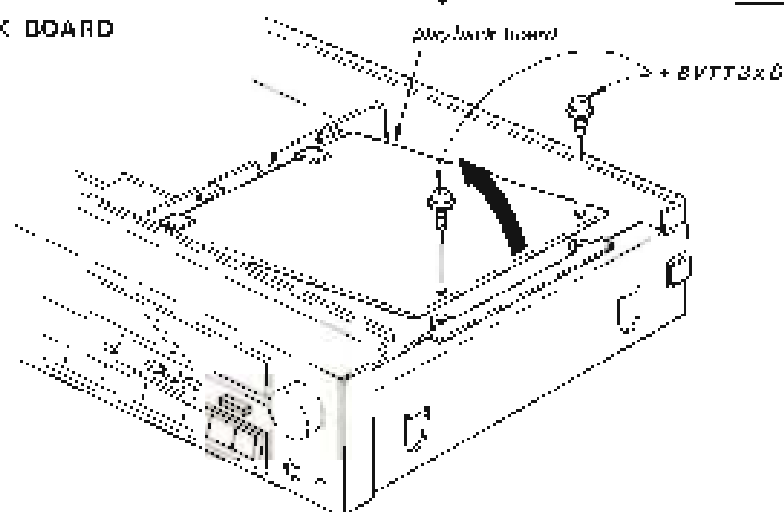
TC-K5

Note: Follow the disassembly procedure in the numbered order given.

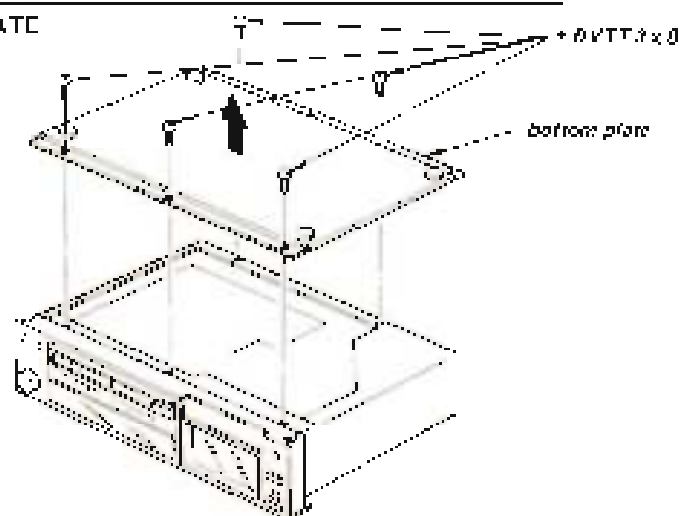
CASE



PLAYBACK BOARD

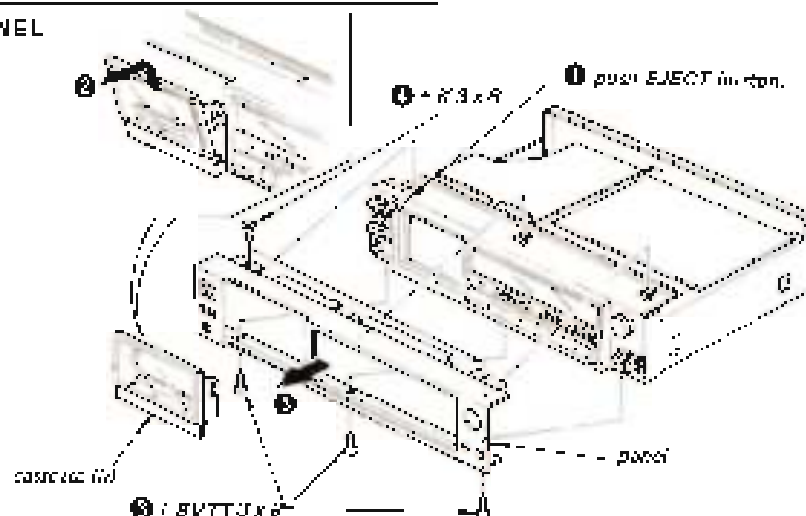


BOTTOM PLATE

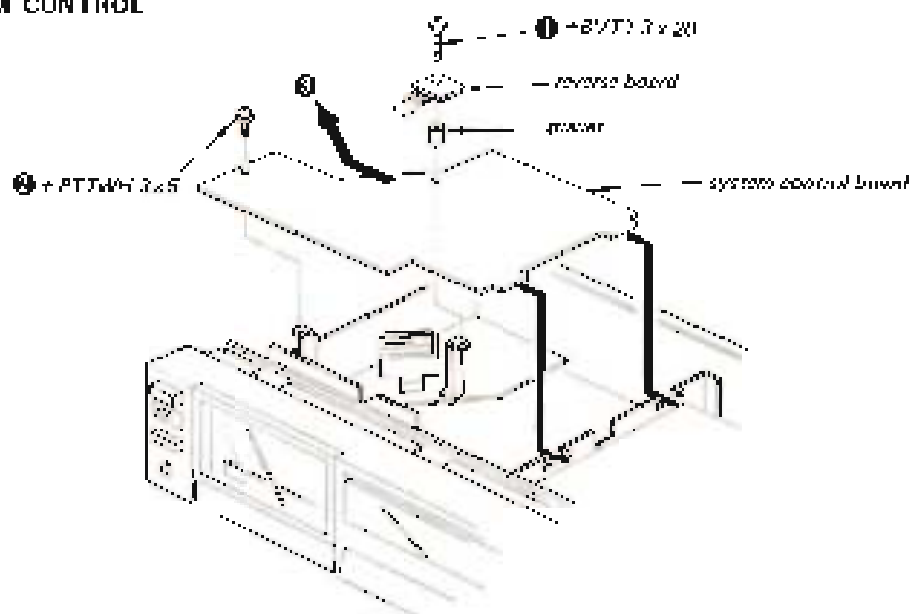


5 TC-K555ES

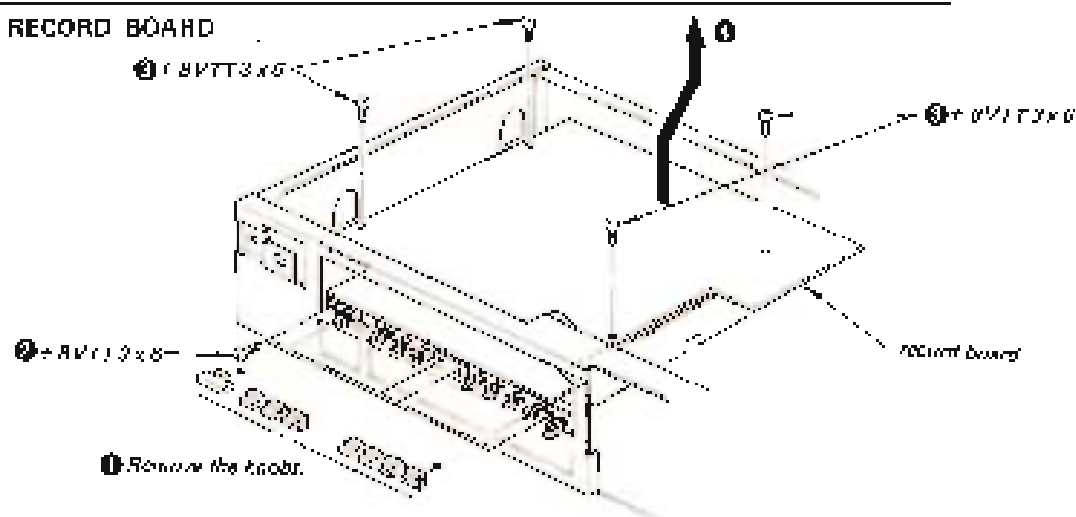
CASSETTE LID/PANEL



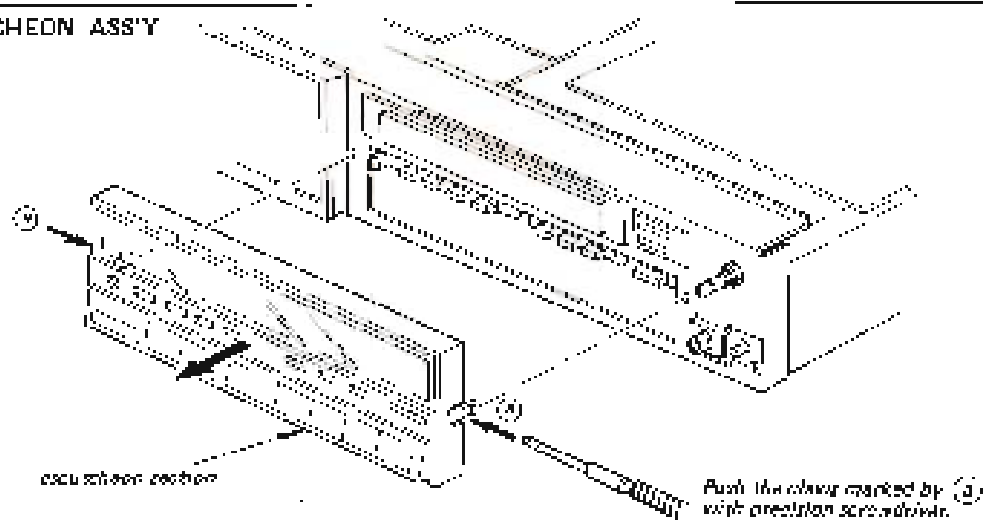
SYSTEM CONTROL BOARD



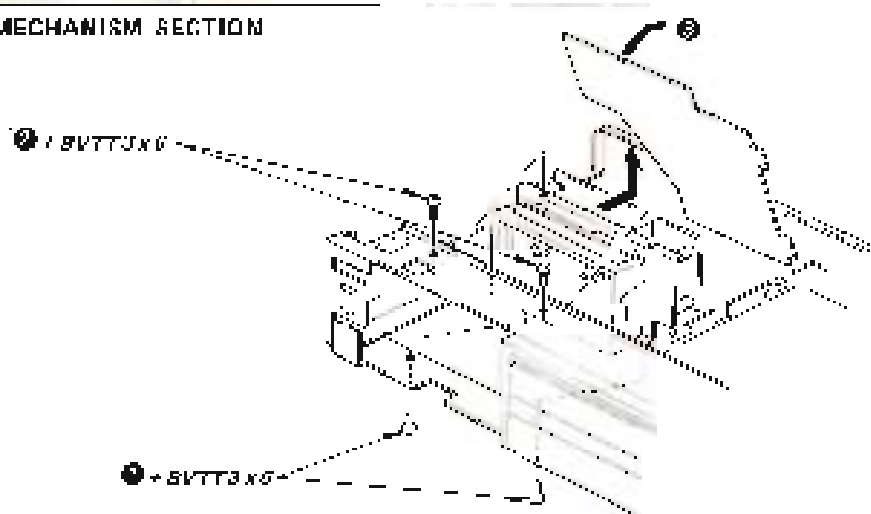
RECORD BOARD



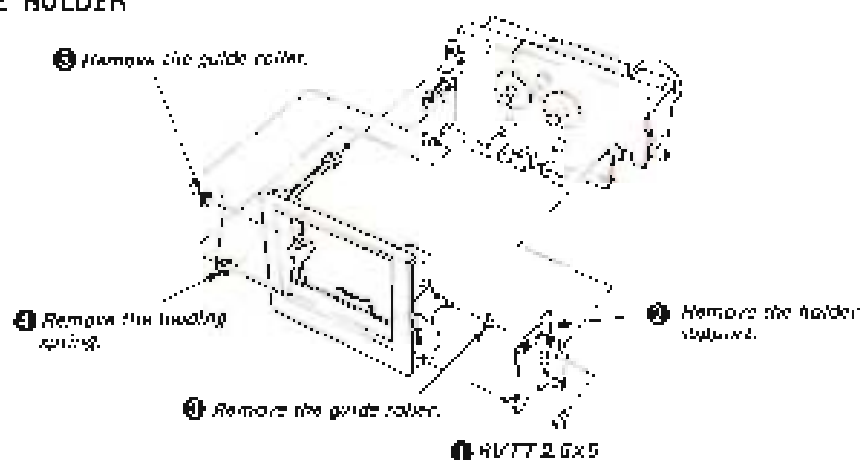
ESCUTCHEON ASS'Y



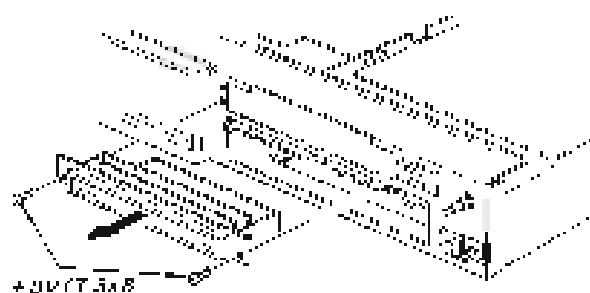
MECHANISM SECTION



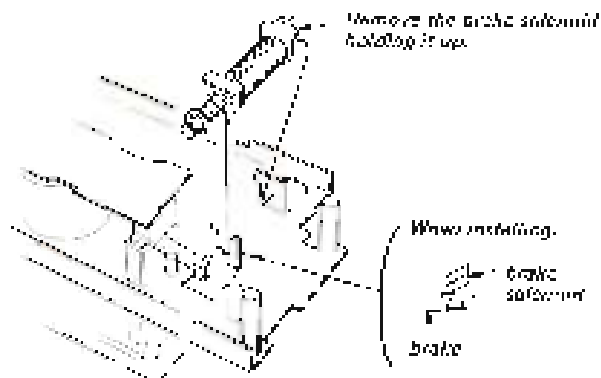
CASSETTE HOLDER



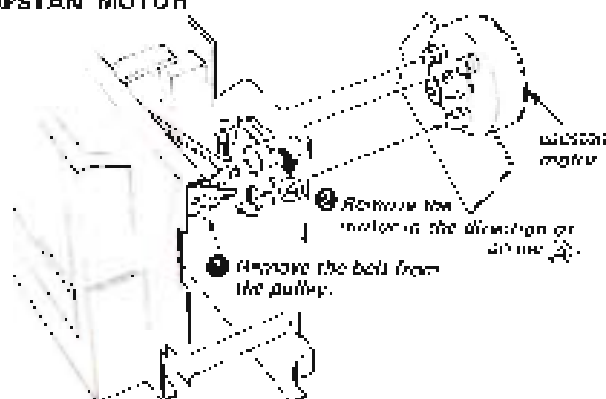
METER



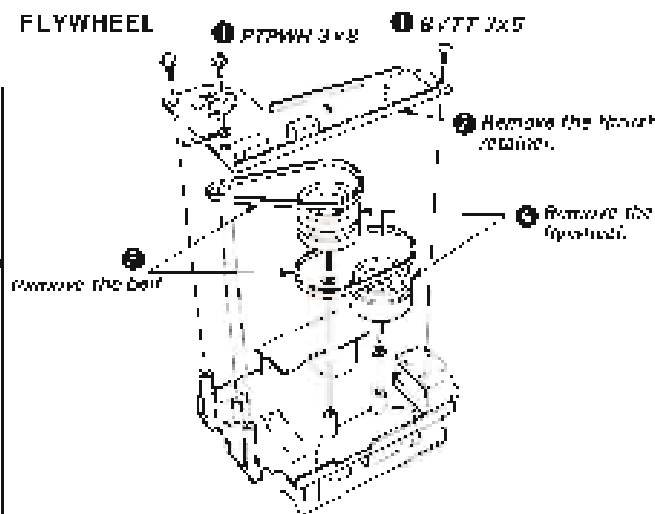
AMS SOLENOID



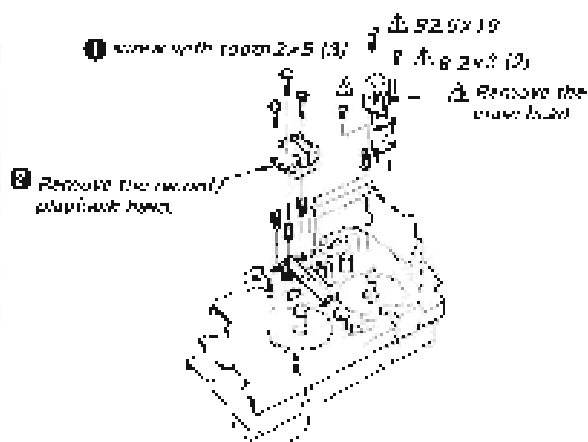
CAPSTAN MOTOR



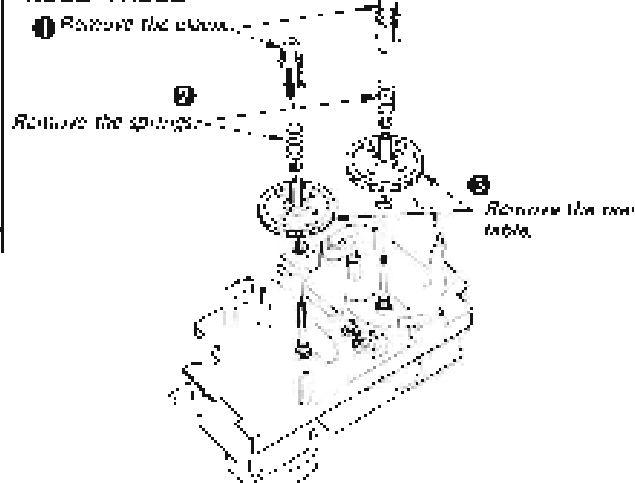
FLYWHEEL



RECORD/PLAYBACK HEAD..... ① - ③ ERASE HEAD..... Δ - Δ



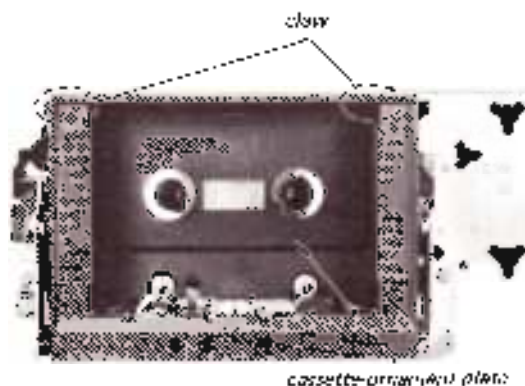
REEL TABLE



CASSETTE ORNAMENT PLATE

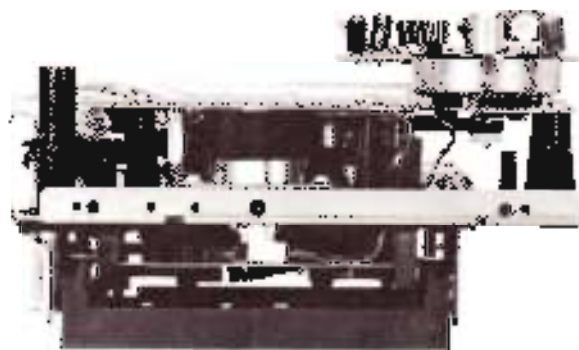
Note: This plate does not need screws to be installed.

1. Press the ejection button and open the cassette lid.
2. Release the two claws from the cassette-ornament plate at both the top corners.
3. Depress the REC detecting lever and the half detecting levers. (The inside of the set) and remove the cassette-ornament plate.
4. When reinstalling the cassette-ornament plate, perform the steps in a reverse manner.



MECHANISM SECTION PHOTOGRAPHS

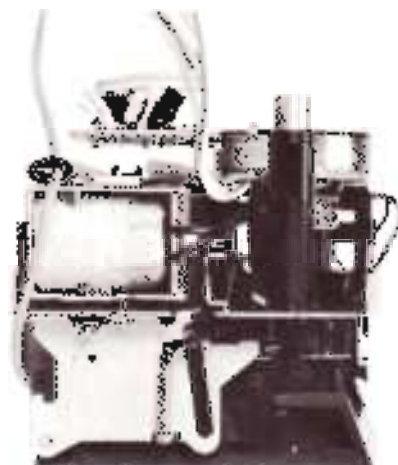
1. Top View with Cassette Holder Shut:



2. Bottom View with Cassette Holder Shut:



3. Left Side View with Cassette Holder Shut:



4. Right Side View with Cassette Holder Shut:



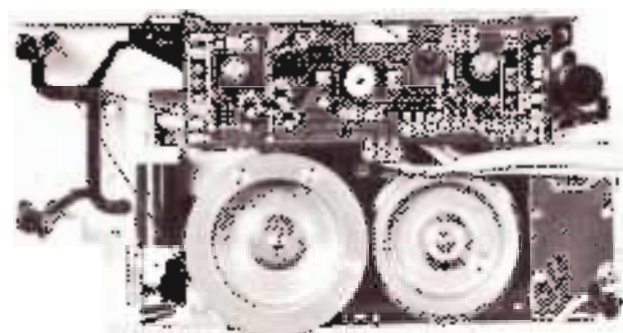
5. Front View with Cassette Holder Removed:



6. Front View with Cassette Holder and Cassette-Ornament Plate Removed:



8. Bottom View with Thrust Retainer and TC-Mu or Removed:



7. Rear View:



9. Bottom View with Switch Board and Flywheel (1) Removed:



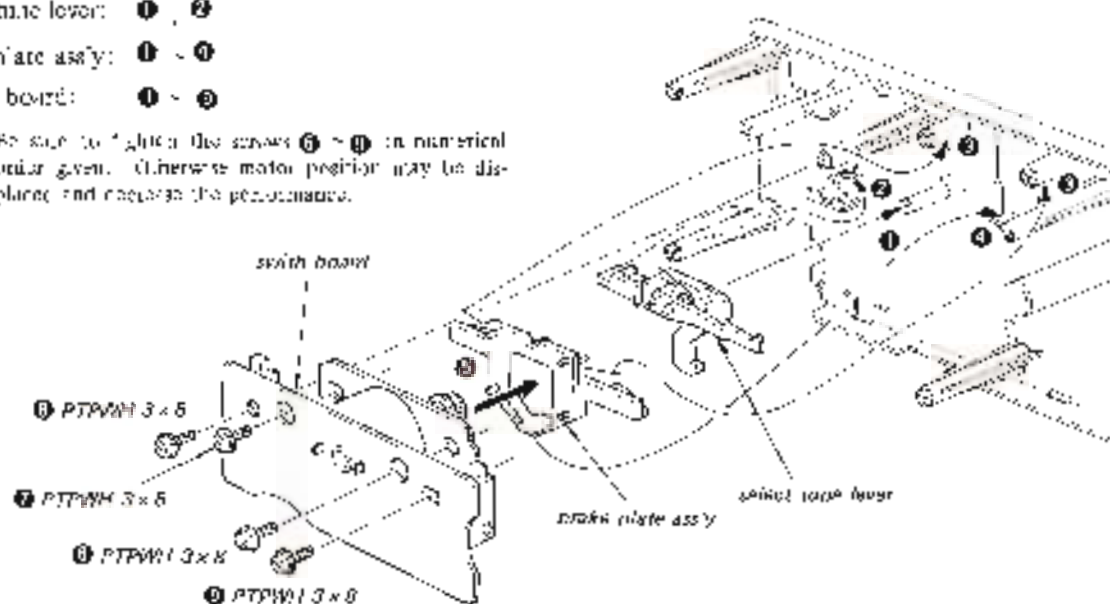
SELECT TUNE LEVER/BRAKE PLATE ASS'Y/ SWITCH BOARD

Select tune lever: ①, ②

Brake plate ass'y: ① ~ ④

Switch board: ① ~ ④

Note: Be sure to attach the screws ⑥ ~ ⑩ in numerical order given. Otherwise motor position may be displaced and require the performance.



SECTION 3 ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcohol-soaked swab:
 record/playback head pinch roller
 erase head rubber belt
 capstan idlers
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

FF/REW Torque Measurement

Torque	Torque meter	Meter reading
FF/REW	CO 2.17	65-75 g·cm

Tape Path Adjustment

1. Insert a mirror cassette (CQ-0090C).
2. Set for forward mode and confirm that there is no tape curl at the tape guides and recording head.
3. If there is curl, turn the adjust nut and raise and lower the supply side pinch roller (with tape guide attached) to adjust.
4. If step 3 does not get rid of the curl, adjust further by turning adjustment screws A, B, C less than $1/8$ turn in the same direction as the same angle.
5. Confirm that the erase head height is as shown in Figure 2.
6. Check tape wrinkling (zipper).
 Tighten adjust screw D if the tape is wrinkling up (clockwise).
 Loosen screw D if the tape is wrinkling downward (counterclockwise).
 Repeat step 5 after adjusting screw D as necessary, within $1/2$ turn.
7. Lock the screw with locking compound.

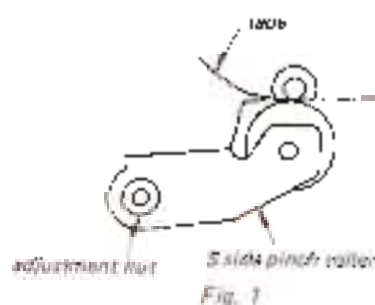


Fig. 2

1. Loosen screws E, F so that the ratio between a and b is 3 : 5 and adjust with the adjustment shims.
2. After changing erase head height, check for tape wrinkling.

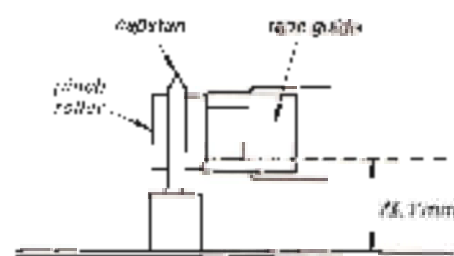
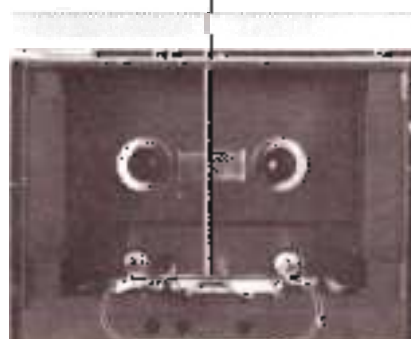


Fig. 3

tape path adjustment



Head Base Position Adjustment

Perform the following adjustment when replacing the head base solenoid.

Perform with the old head base solenoid still in place.

1. Press the head base solenoid core with the finger until the head base stops moving.
2. Draw a line as shown in Figure 2. Replace with the new head base solenoid.
3. Loosen the mounting screw, match with the line drawn in step 2, and tighten the screw.
4. Lock the screw after adjustment.

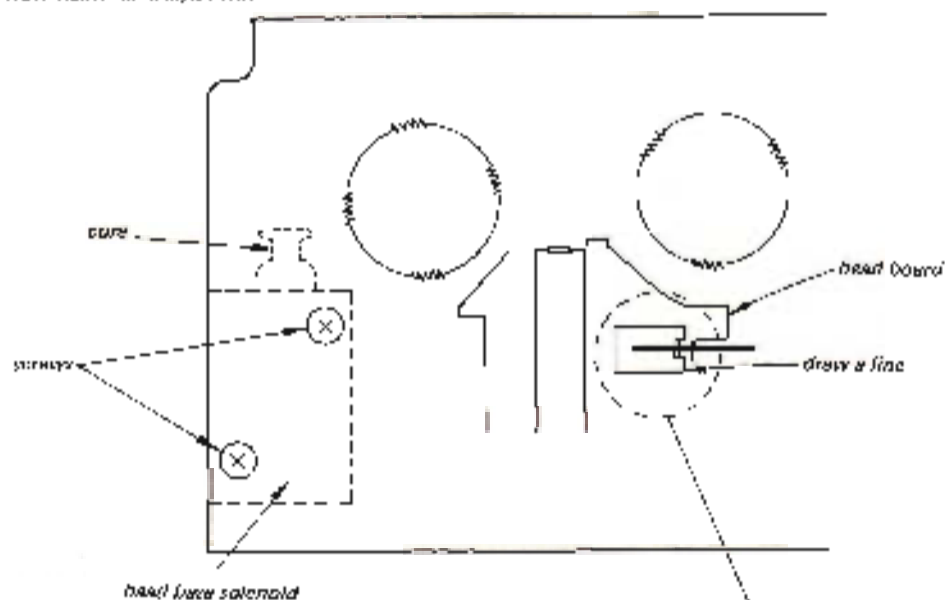


Fig. 1

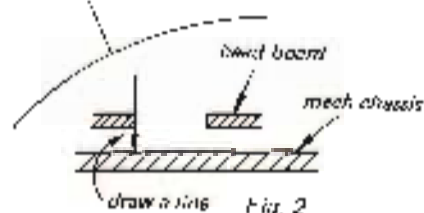
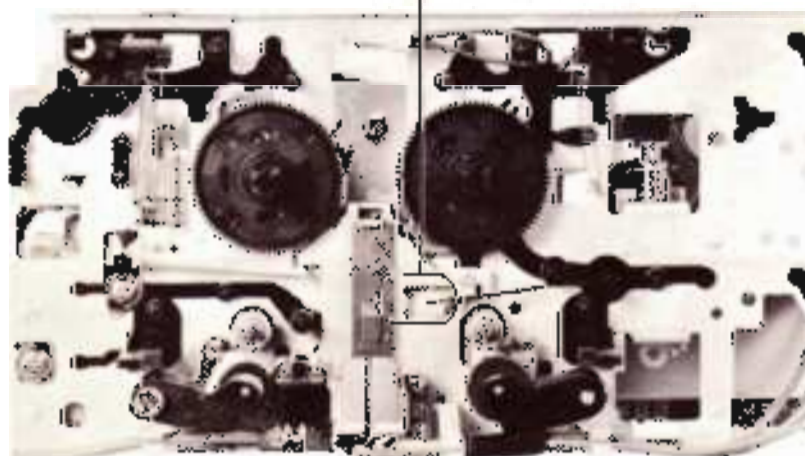


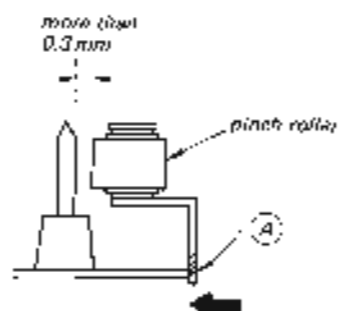
Fig. 2

head base position adjustment



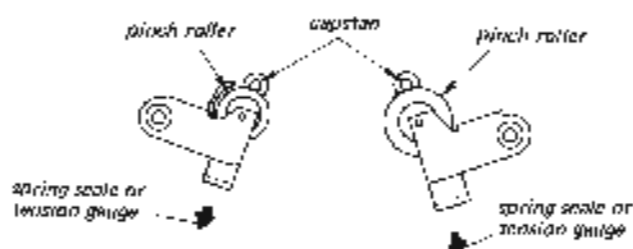
Pinch Roller Clearance Adjustment

1. Confirm that the clearance between the pinch roller and capstan is more than 0.3 mm in pause mode.
2. If it is less than 0.3 mm, bend (A) in the direction of the arrow.

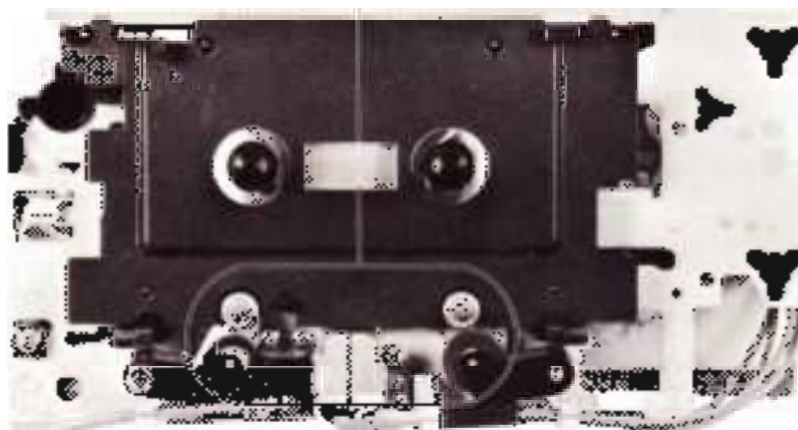


Pinch Roller Pressure Measurement

1. Confirm that the pinch roller is parallel to the capstan.
 2. Set in forward, move the pinch roller away from the capstan, then back toward it, and measure the value at the point where the pinch roller begins to rotate.
- 1 side 270 – 330 g
S side 180 – 280 g



pinch roller clearance adjustment

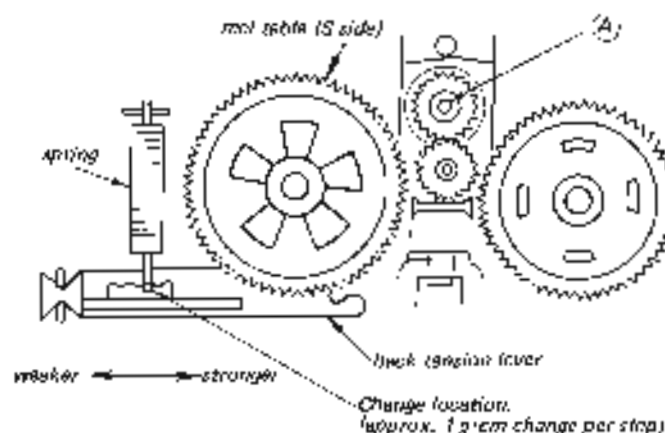


Forward Torque Adjustment

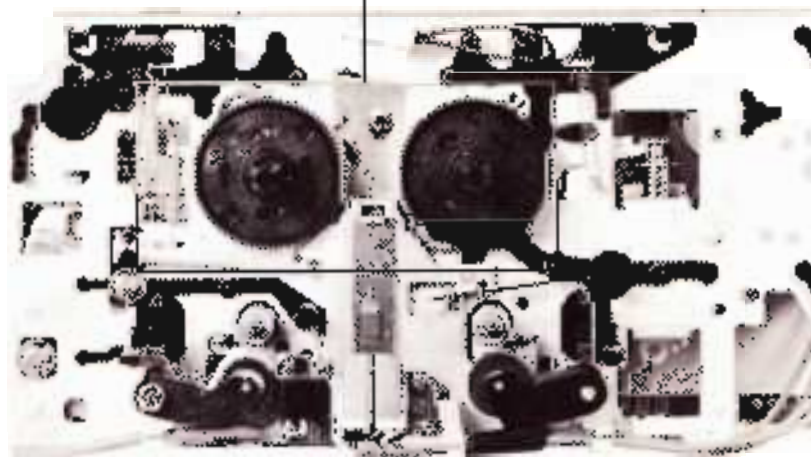
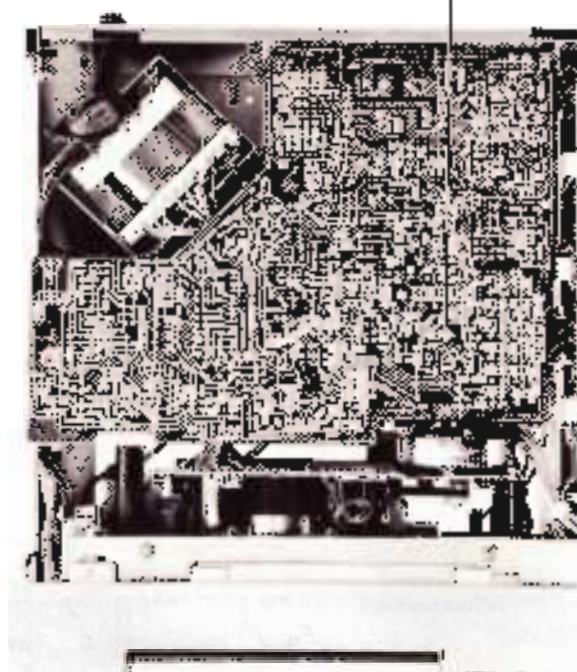
1. Remove the ornamental plate.
2. Press the cassette detection switch and T side reel table simultaneously by hand and then press the forward button. In this state, push the T reel table so that it does not rotate.
3. Now adjust RV701 to the position where (A) begins to rotate.
(It will shut off immediately, so press the forward button to repeat.)
4. Next insert CQ-03C, and measure forward torque and back tension torque. If back tension torque is not within the specifications, change the location where the spring is hooked.

Specifications:

forward torque:	30 - 60 gram
back tension torque:	7 - 10.5 gram



RV701



3-2. ELECTRICAL ADJUSTMENTS

Note: The adjustment should be performed in the order given in this service manual.
The adjustments should be performed for both L-CH and R-CH.

- Set the TAPE switches according to the tape as follows.

Tape	TAPE switch
CS-15	TYPE I
CS-25	TYPE II
CS-30	TYPE III
CS-40	TYPE IV

- Switches and controls should be set as follows unless otherwise specified.

DOUBLY NR switch: OFF
 TAPE switch: TYPE I
 TIMER switch: OFF
 LINE OUT/HEADPHONES: MAX

- Standard Record:

Deliver the standard input signal level to the input jack and set the REC LEVEL control to obtain the standard output signal level.

Standard Input Level

LINE IN	
source impedance	10 k Ω
input level	0.25 V (+10 dB)

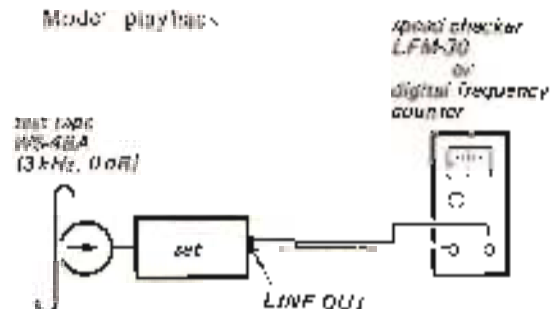
Standard Output Level

	HEADPHONES	LINE OUT
load impedance	8 Ω	47 k Ω
output level	75 mV (-20 dB)	0.44 V (-5 dB)

Tape Speed adjustment

Procedure:

Mode: playback

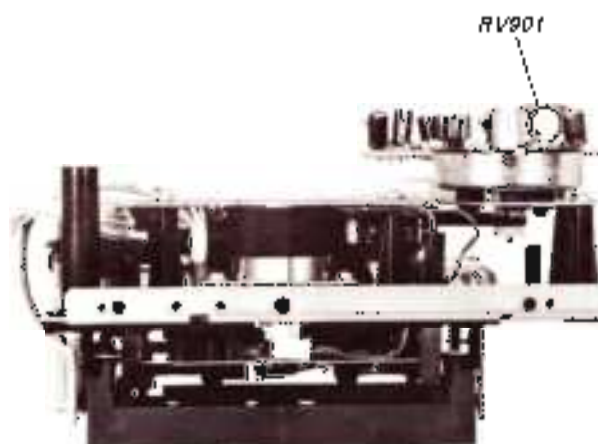


Specification:

Speed checker	Digital frequency counter
-0.17 to +0.17%	3,995 - 3,995 Hz

Frequency difference between the beginning and the end of the tape should be within 0.14% (10 Hz).

Adjustment Location:

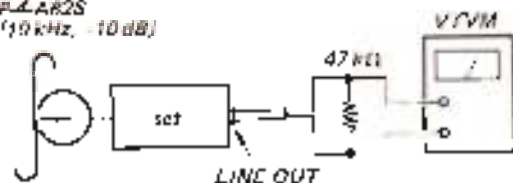


Playback Head Azimuth Adjustment

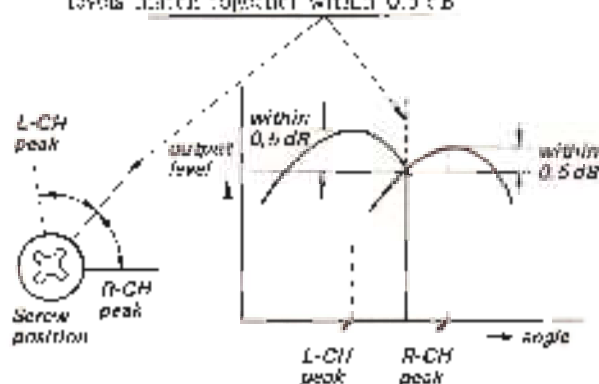
Procedure:

1. Mode: playback

test tape
P-4-AK2S
(10 kHz, -10 dB)

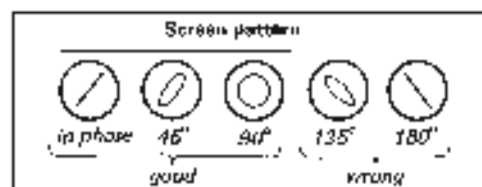
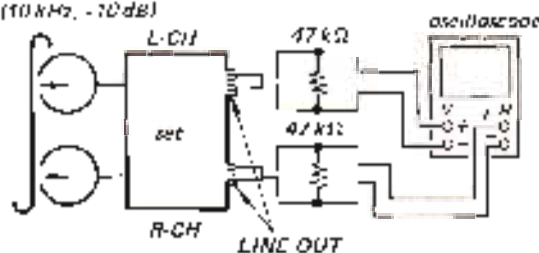


2. Turn the adjustment screw for the maximum output level. If these levels do not match, turn the adjustment screw until both of output levels match together within 0.5 dB.



3. Phase Check
Mode: playback

test tape
P-4-AB2S
(10 kHz, -10 dB)



Adjustment Location:

adjustment screw

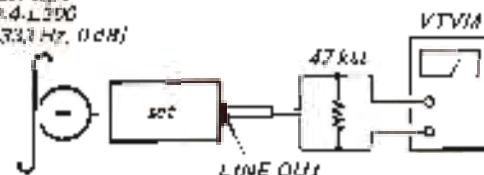


Playback Level Adjustment

Procedure:

- Mode: playback

test tape
P-4-L290
(333 Hz, 0 dB)



Specification:

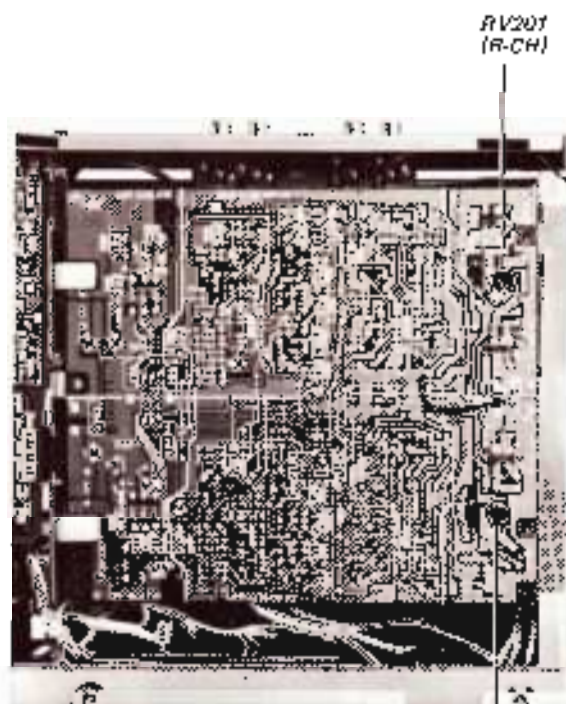
LINE OUT level: 0.50 ~ 0.54 V
(-3.5 ~ -2.5 dB)

Level difference between channels:
less than 0.5 dB

Check that the LINE OUT level does not change in playback mode while changing the mode from playback to stop several times.

Adjustment Location:

playback board



RV101
(L-CH)

Record Head Azimuth Adjustment (Record head azimuth adjustment should be made later than playback head azimuth adjustment.)

Setting:

RECORDING TAPE

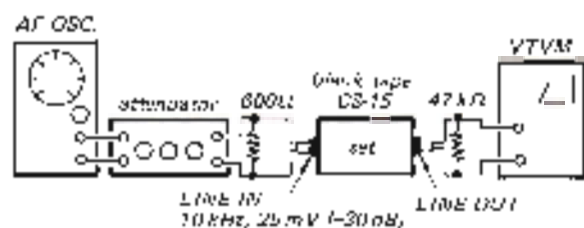
RHC LEVEL control: standard record (See page 23)

TAPE TYPE I

Procedure:

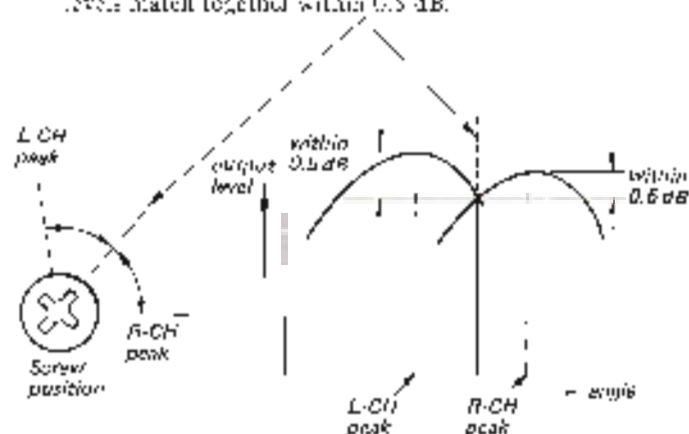
record and playback mode

Adjustment Location:

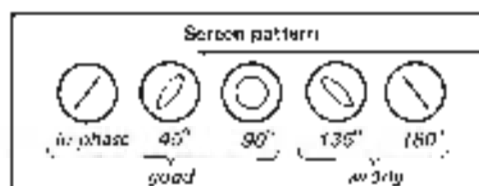
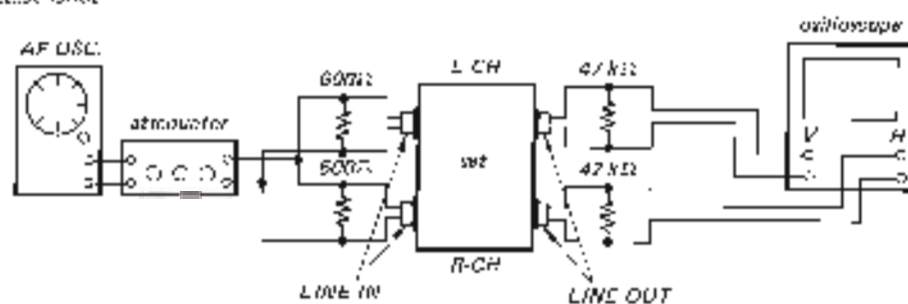


adjustment screw

1. Turn the adjustment screw for the maximum output. Even if these levels do not match, turn the adjustment screw until both of output levels match together within 0.5 dB.



2. Phase Check:



Adjust the screw so that L-CH and R-CH are in phase.

Specification:

Phase difference between L-CH and R-CH:
less than 90°

Level difference between L-CH and R-CH:
less than 1 dB

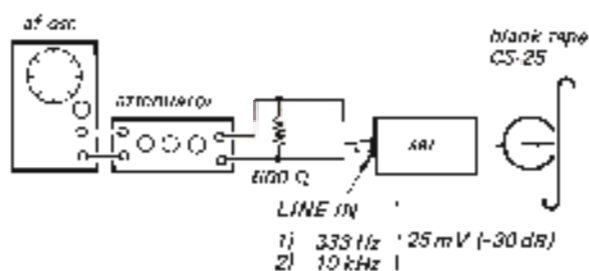
Record Bias Adjustment

Setting:

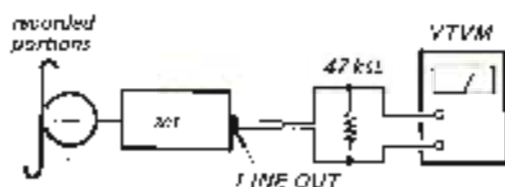
RFC LEVEL control: standard record
(See page 23)

Procedure:

1. Mode: record



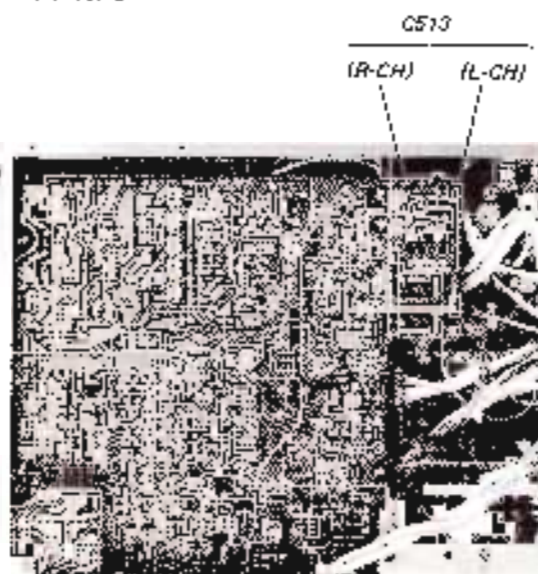
2. Mode: playback



Adjust CS13 (I-CH), (R-CH) so that the LINE OUT level of 333 Hz signal is 0 dB relative to that of 10 kHz.

Adjustment Location:

record board -



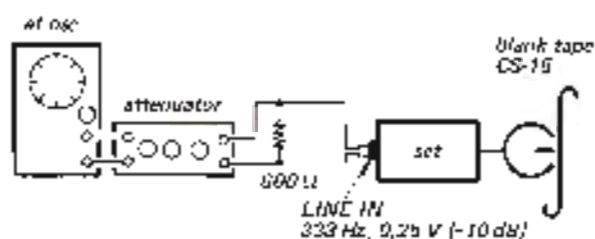
Record Level Adjustment

Setting:

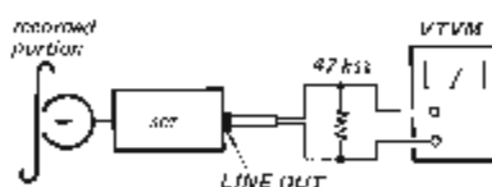
standard record
(See page 23)

Procedure:

1. Mode: record



2. Mode: playback

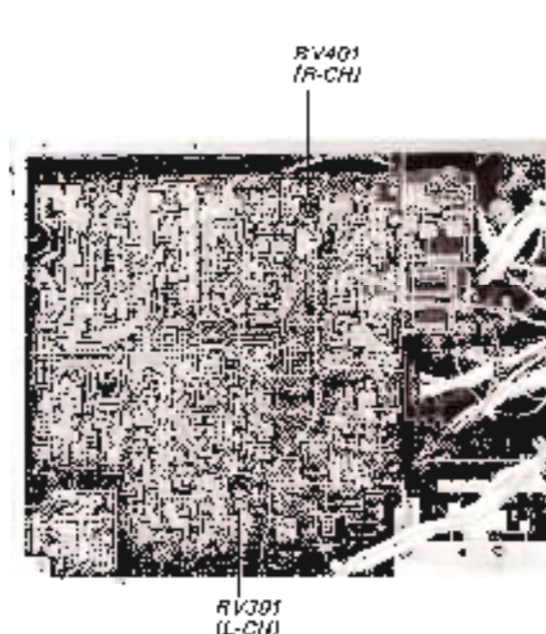


Specification:

LINE OUT level: 0.41 ~ 0.46 V
(-3.0 ~ -4.5 dB)

Adjustment Location:

- record board -



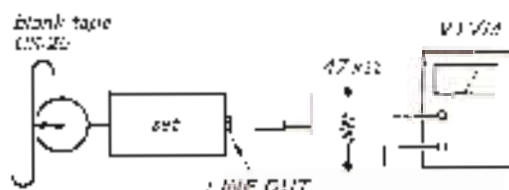
Bias Trip Adjustment

Setting:

MONITOR: TAPE
TAPE: TYPE V

Procedure:

1. record and playback mode



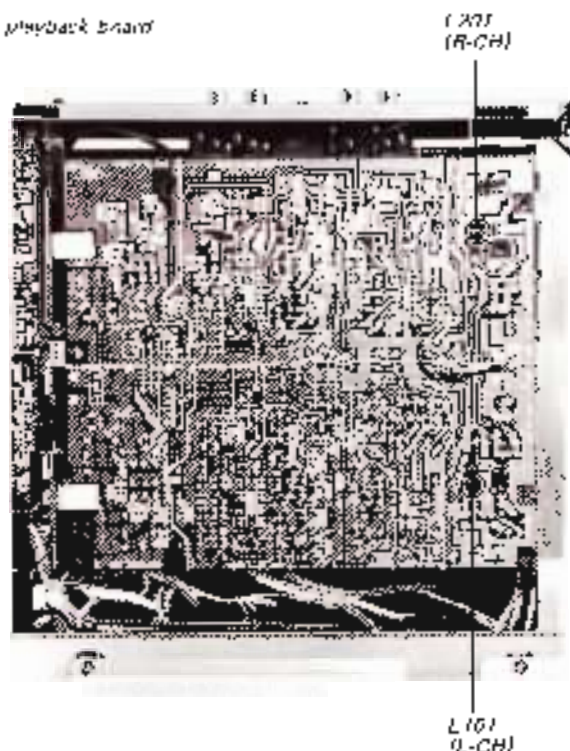
In record and forward mode, adjust L101 (L-CH), L201 (R-CH) so that the LINE OUT level is minimum on the VTVM.

Specification:

LINE OUT level: less than 4.4 mV (-45 dB)

Adjustment Location:

playback board



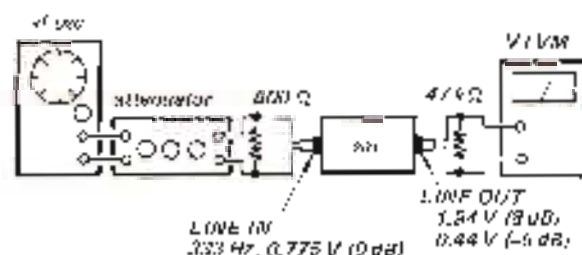
Level Meter Calibration

Setting:

MONITOR: SOURCE

Procedure:

1. Mode: record

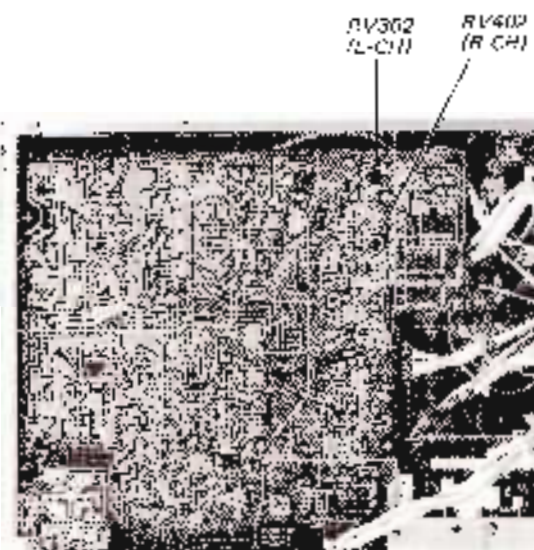


1. Set the REC LEVEL control so that the LINE OUT level is -5 dB.
2. Adjust RV302 (L-CH) and RV402 (R-CH) so that the LED indicates -5 dB (brightness, element lighting).
3. Set the REC LEVEL control so that the LINE OUT level is 15 dB. Make sure the LED meter indicates +4 dB (0 VU) at this time.

Note: Slide the REC LEVEL control rightward slowly, (30 counts) to peak indication.

Adjustment Location:

source board -



DOLBY C Level Adjustment

Setting:

MONITOR: TAPE
TAPE TYPE: I

1. Set DOLBY switch to DOLBY C.
Adjust for the specification.

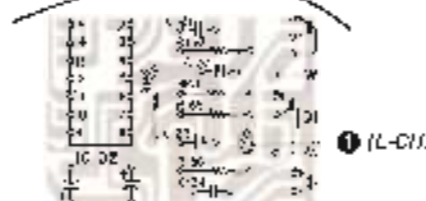
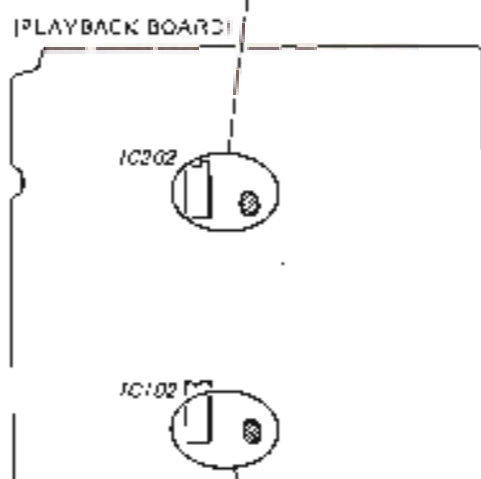
Specification:

- LINE OUT level: 55 mV ~ 35 mV
(-23 dBm ~ -27 dB)
- Level difference between
L-CH and R-CH: less than 2 dB

Adjustment Location:

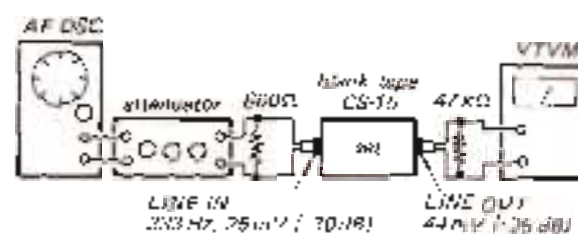
— playback board —

If LINE OUT level is higher than the specification, unsolder the portion marked by ① (L-CH), ② (R-CH).



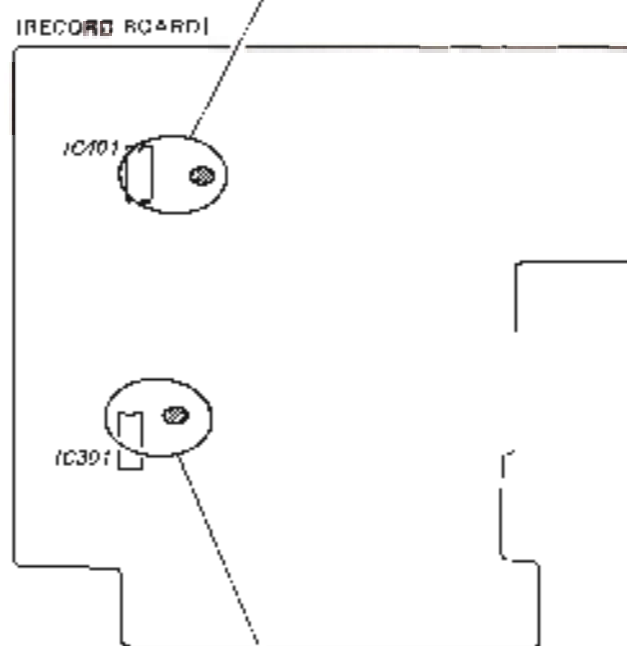
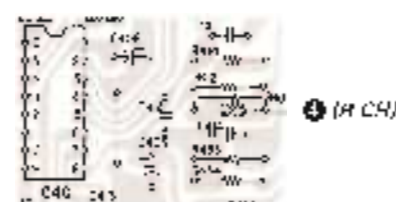
Procedure:

record and playback mode

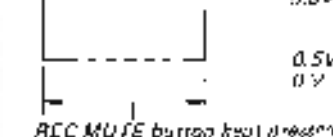
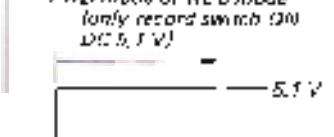
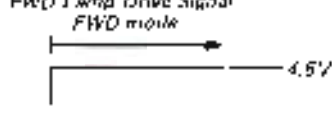
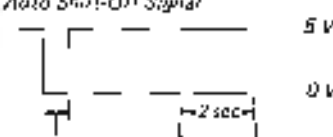
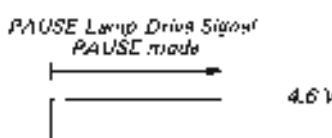
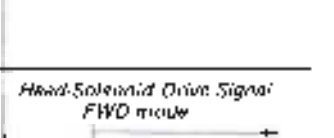
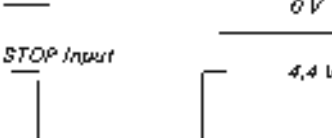
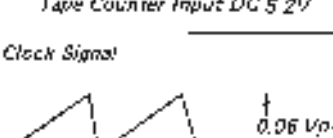
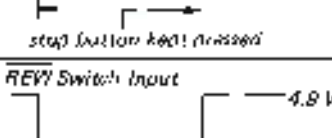
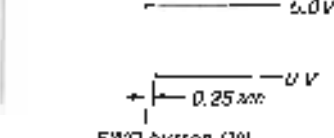
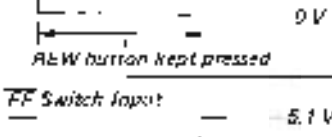
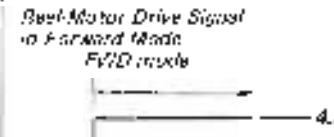
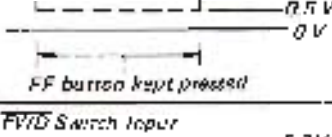
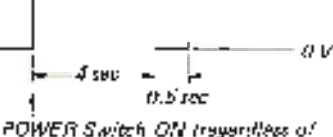
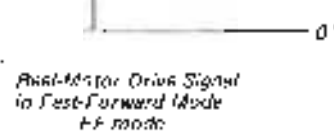
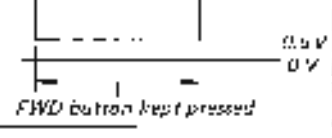
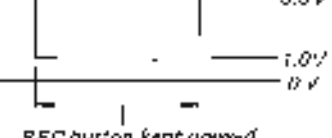


record board —

If LINE OUT level is lower than the specification, unsolder the portion marked by ③ (L-CH), ④ (R-CH).

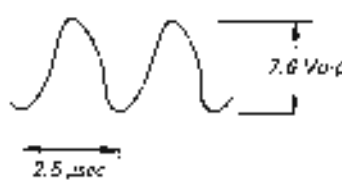
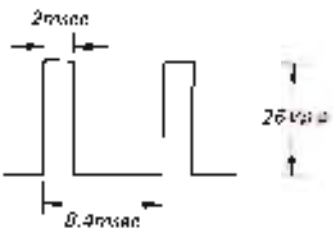
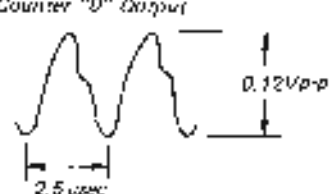
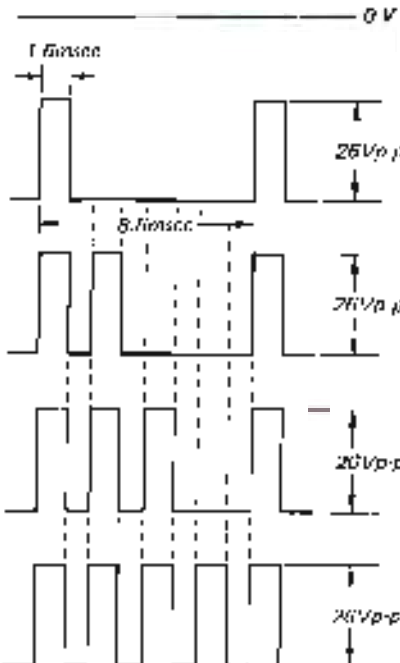
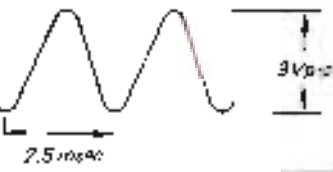


IC601's Terminal Name, Waveform and/or Voltages

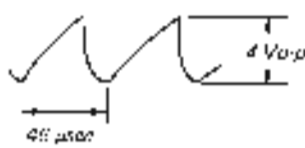
Pin No.	Waveform and/or Voltages	Pin No.	Waveform and/or Voltages	Pin No.	Waveform and/or Voltages
1	REC Lamp Drive Signal REC mode 	10	REC MUTE Switch Input -- 0.3V 0.5V 0V REC MUTE button kept pressed 	20	Line Muting Signal FWD mode or REC mode (only record switch ON DC 5.1V) 
2	FWD Lamp Drive Signal FWD mode 	11	Auto Shut-Off Signal 5V 0V tape end 0.4 sec 2 sec with shut off becomes in stop mode at tape end in forward mode, (may become in 0V according to the position at take-up reel spindle.) 	21	(not used in this set)
3	PAUSE Lamp Drive Signal PAUSE mode 	12	Tape Counter Input DC 5.2V	22	Head Solenoid Drive Signal FWD mode 
4	STOP Input 4.4V 0V stop button kept pressed 	13	Clock Signal 	23	AMS Solenoid Drive Signal 0V 
5	REV Switch Input 4.8V 0V REW button kept pressed 	14	GND 0V	24	FWD button ON 0V 0.25 sec 
6	FF Switch Input 5.1V 0.5V 0V FF button kept pressed 	15	(not used in this set)	25	Reel Motor Drive Signal in Forward Mode FWD mode 
7	FWD Switch Input 5.2V 0.5V 0V FWD button kept pressed 	16	Timer Signal (TIMER) 5.7V 0V 4 sec 0.5 sec 	26	Reel Motor Drive Signal in Fast-Forward Mode FF mode 
8	REC Switch Input 5.3V 1.0V 0V REC button kept pressed 	17	POWER Switch ON (regardless of position of TIMER switch)	27	Reel Motor Drive Signal in Rewind Mode REW mode 
9	PAUSE Switch Input 5.2V 0.3V 0V PAUSE button kept pressed 	18	Record-Muting Signal 5.1V 0V REC MUTE switch ON in record mode 	28	R + Supply Voltage DC 6V

Note: Voltages are measured with an oscilloscope (10MΩ probe). So readings are different from the mounting diagram and schematic diagram measured with a VOM.

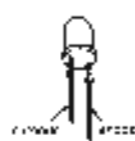
IC802's Terminal Name, Waveform and/or Voltages

Pin No.	Waveform and/or Voltages	Pin No.	Waveform and/or Voltages	Pin No.	Waveform and/or Voltages	Pin No.	Waveform and/or Voltages
①	Clock Signal 	③, ④	±F Mode Capstan Motor Drive Signal STOP mode: DC 24.5 V FWD mode: DC 13.5 V ±F Mode: DC 0 V	⑥, ⑦, ⑧, ⑨	Drive Signal for Grids G1 through G4 of Fluorescent Display Tube 	①	
②	Heat Motor Drive Signal in Reverse Mode STOP mode: DC 24.5 V REV mode: DC 13.5 V	⑤	Counter "0" Output 	⑫	B + Supply Voltage DC 26V	②	
⑥	Drive Signal for "a" Segment of Fluorescent Display Tube. 1) In case of all "a" segments are not lit, i.e., all of the four digits are "1" or "4". 2) In case of only one out of four "a" segments lit, i.e., one of the four digits is "0", "2", "3", "5", "6", "7", "8", or "9" and all others are "1" or "4". 3) In case of only two out of four "a" segments lit as in the case of 2) above. 4) In case of only three out of four "a" segments lit as in the case of 2) above. 5) In case of all of the four "a" segments lit like 0.	③, ④, ⑤, ⑥, ⑦, ⑧, ⑨, ⑩, ⑪		⑪	Drive Signal for "MEMORY" of Fluorescent Display Tube 	③	
⑦	Drive Signal for "b" Segments of Fluorescent Display Tube same as pin ⑥ for Segment "a".	⑫	B + Supply Voltage DC 26V	⑬	φ1 or φ2 - Signal Input from Photo Transistor last forward and reverse modes. 	④	
⑧	Drive Signal for "c" Segments of Fluorescent Display Tube same as pin ⑥ for Segment "a".	⑭	Pulse width varies according to tape take-up. (Stop mode 10.5 V DC or 0 V according to the position of photo transistor)	⑮	1.5 MHz Clock Signal (INT) 	⑤	
⑨	Drive Signal for "d" Segments of Fluorescent Display Tube same as pin ⑥ for Segment "a".	⑮	Drive Signal ("DP" data) of "MEMORY" of 1.6 msec Fluorescent Display Tube 	⑯	RESET Signal 12.5V	⑥	
⑩	Drive Signal for "e" Segments of Fluorescent Display Tube same as pin ⑥ for Segment "a".	⑰	B + Supply voltage 26V	⑳	GND (Ground) 12.5V	⑦	
⑪	Drive Signal for "f" Segments of Fluorescent Display Tube same as pin ⑥ for Segment "a".	⑱	TESI Terminal 26V	㉑	Clock Signal 	⑧	
⑫	Drive Signal for "g" Segments of Fluorescent Display Tube same as pin ⑥ for Segment "a".					⑨	

IC801's Terminal Name, Waveforms and/or Voltages

Pin No.	Waveform and/or Voltages	Pin No.	Waveform and/or Voltages	Pin No.	Waveform and/or Voltages
①	"B2" (dot) Drive signal R and L channel signal: R or L channel signal: 20.5 V 19.5 V	16	(not used in this set)	26	R-CH Grid Control Output Signal Same as 26
②	"B3" (dot) Drive Signal Same as ①	17	0V 6 V		
③	"B4" (dot) Drive Signal Same as ①	18	(not used in this set)	27	B+ Supply Voltage: 6 V
④	"B5" (dot) Drive Signal Same as ①		Clock Signal	28	B+ Supply Voltage: 22 V
⑤	"B6" (dot) Drive Signal Same as ①	19			
⑥	"B7" (dot) Drive Signal Same as ①	20	Auto Signal FWD start: 2.6 V 0 V FWD mode - STOP mode -2.6 V		
⑦	"B8" (dot) Drive Signal Same as ①				
⑧	"B9" (dot) Drive Signal Same as ①	21	(not used in this set)		
⑨	"B10" (dot) Drive Signal Same as ①	22	MEMORY RESET Input Signal 320 msec 2.0 V 1.2 V 0 V		
⑩	"B11" (dot) Drive Signal Same as ①				
11	"B12" (dot) Drive Signal Same as ①	23	R-CH Signal Input Signal: 1 V No Signal: 0 V		
12	"B13" (dot) Drive Signal Same as ①				
13	"B14" (dot) Drive Signal Same as ①	24	L-CH Signal Input Same as 23		
14	"B15" (dot) Drive Signal Same as ①	25	L-CH Grid Control Output Signal 1.3 msec 22 Vp-p 2.7 msec		
15	"B16" (dot) Drive Signal Same as ①				

Semiconductor Lead Layouts

CX-174 NJM2043D-D LPC4557C MSM4589B1RS LPC339C MB84069B MSL9359RS LPD554C089 NJM4558D-FA NJM2903D  BA6138  CX-069A 	2SA1027R 2SA1026-7  2SD680  2SD774 2SB734  2SB608  2SD1020 	SLR-34UR5 SLR-34PG5 SLR-34DU5  THS102  PH102 
2SC1384 2SC1384-B 2SC1345 2SC2001 2SD1152 2SA644 2SC945-D 2SC1815 2SB654 	2SK3DA-O  2SB731 2SD809 	HZ681L 1S1556 10E-2 EQAD1-08R1 HZ22-3L HZ27-1L RO7,5JN1 HZ0A2L HZ12C3L 

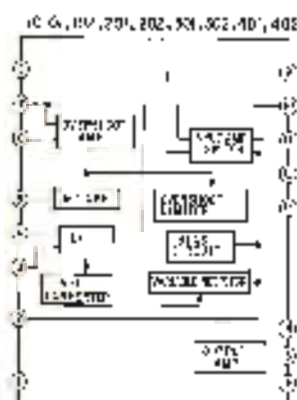
A B C D E F G

4.1. MOUNTING DIAGRAM

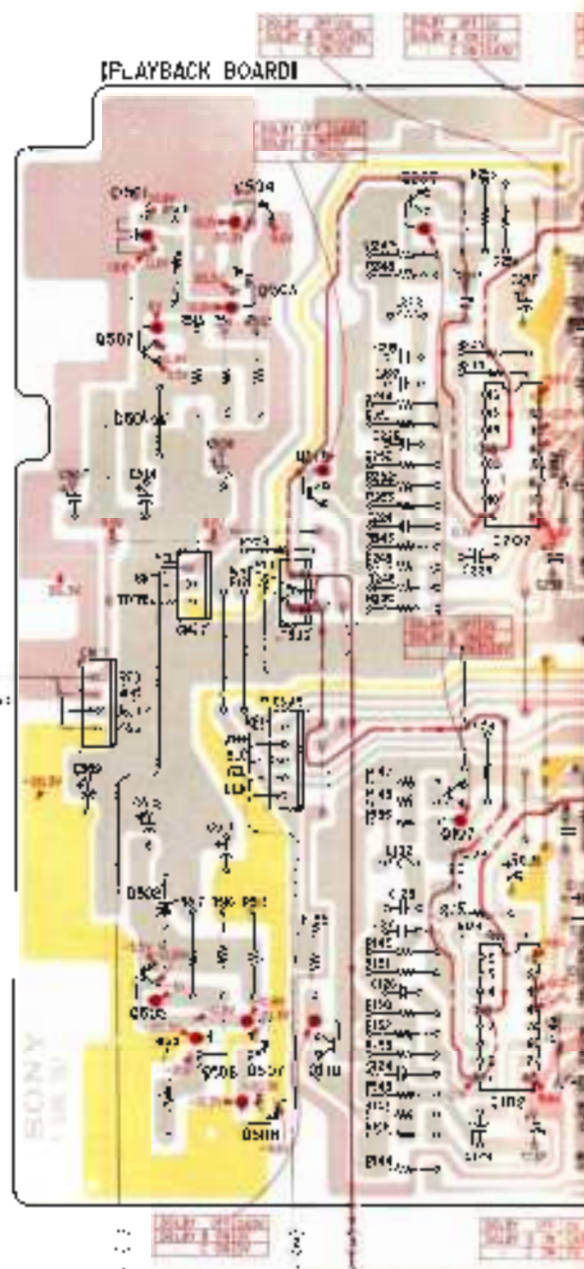
- Amp Section

Note: See page 32 for semi-conductor and layout.

	501	504	211	
9	507	503	2 0	C730
10	503	506 507 508	10	QT
				IC102
3	501			
	502			



TO SYSTEM UNIT



TO: DIRECTOR, FBI (100-441141)



L M N O P Q R S T

406 10401 102 10 408 11
 40 104 103 409
 301 306 304 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000

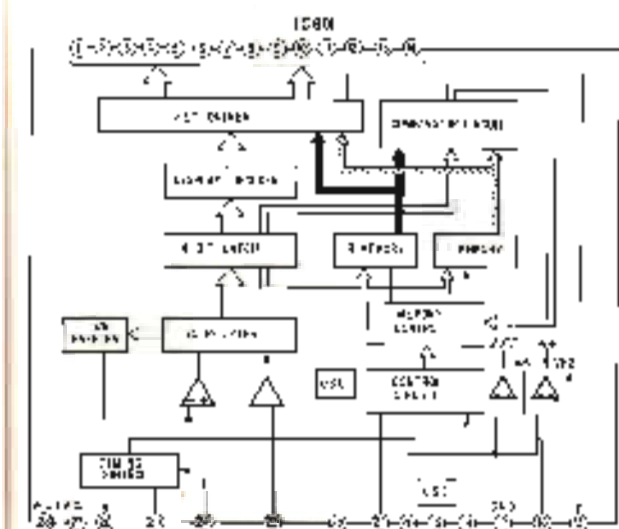
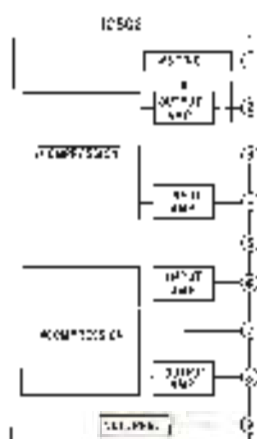
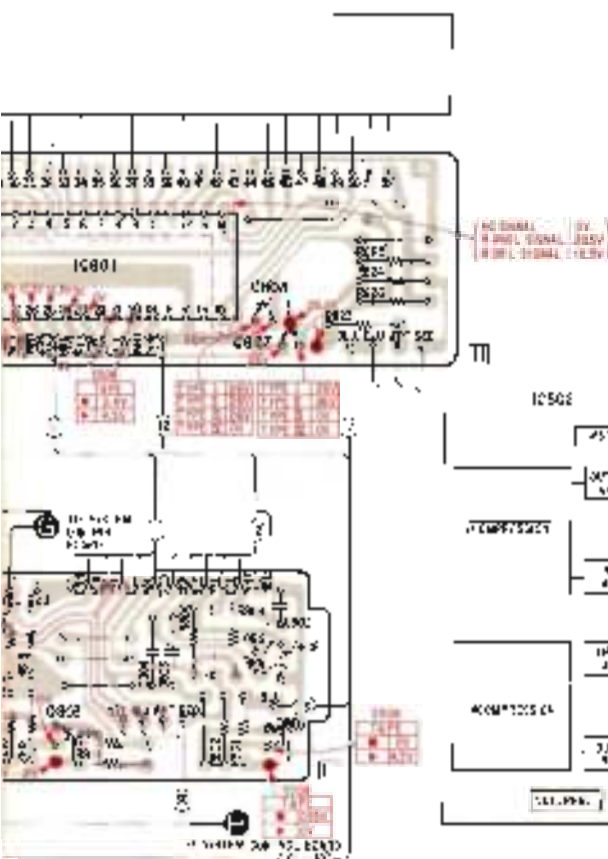
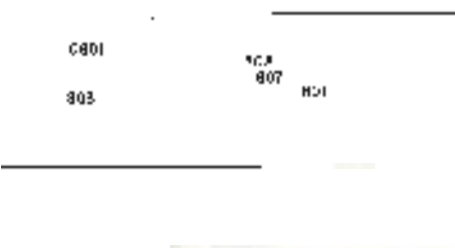
[RECORD BOARD]

[VOLUME BOARD]

[LAMP BOARD]

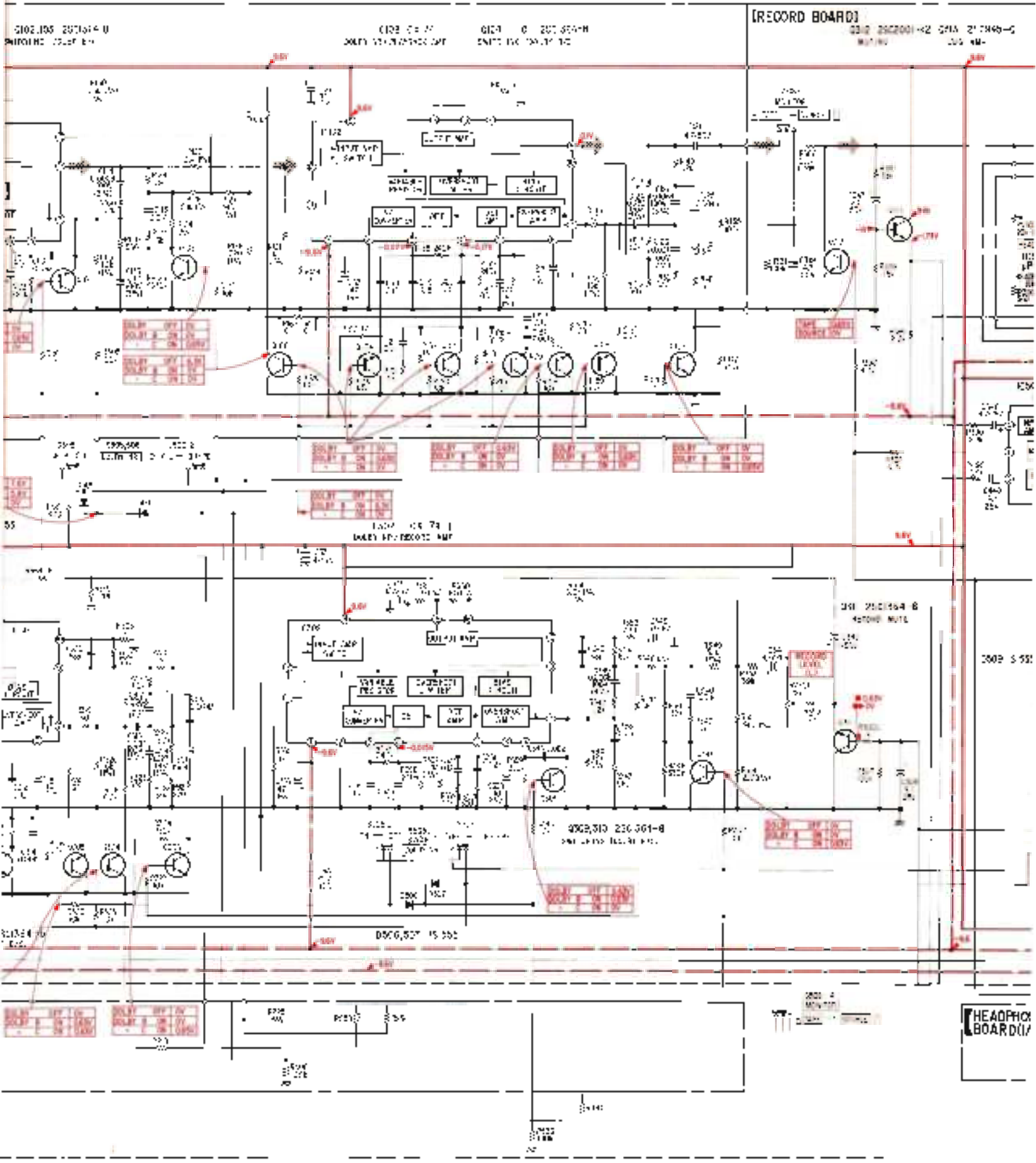
[PIN JACK BOARD]

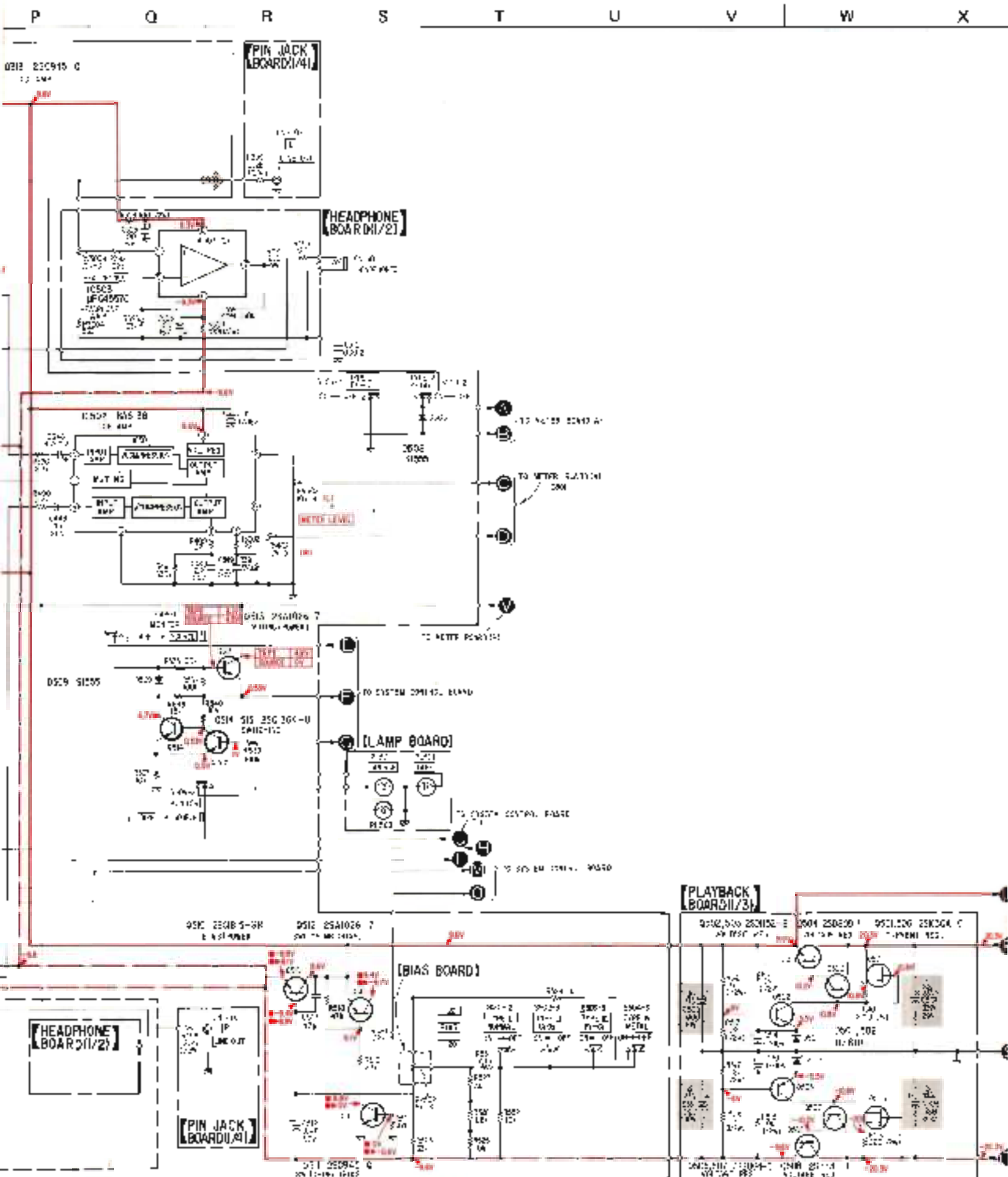
B1	C1	D1	E1	F1	G1	H1
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Note:

- : parts extracted from the component side.
- : parts extracted from the connector side.
- : B + pattern
- : signal path
- : L-CH signal path
- : R-CH signal path





X Y Z A1 B1 C1 D1

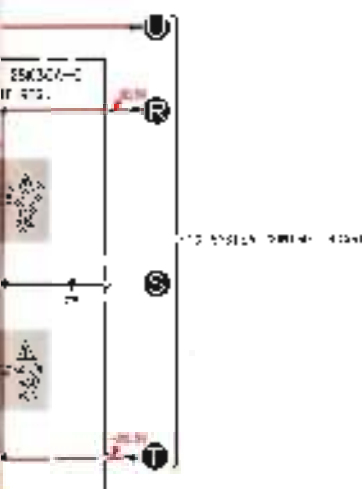
Note:

- : signal path
- All capacitors are in μF unless otherwise noted. pF: μpF
50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, $\frac{1}{4}$ W unless otherwise noted.
k Ω : 1000 Ω , M Ω : 1000 k Ω
- : panel designation.
- : adjustment for repair.
- : B+ bus.
- : B- bus.
- Readings are taken under no-signal conditions with a VOM (50 k Ω /V).
- AC voltage readings in the bias oscillator with a VTVM.

Note: Voltages are measured with a VOM (50k Ω /V).

Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par une trame et une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

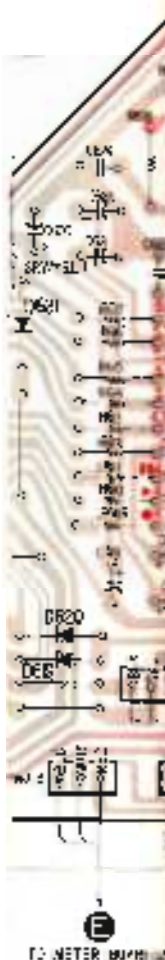


1
2
3
4
5
6
7
8
9
10

RI BOARD

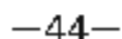


TO RECOM

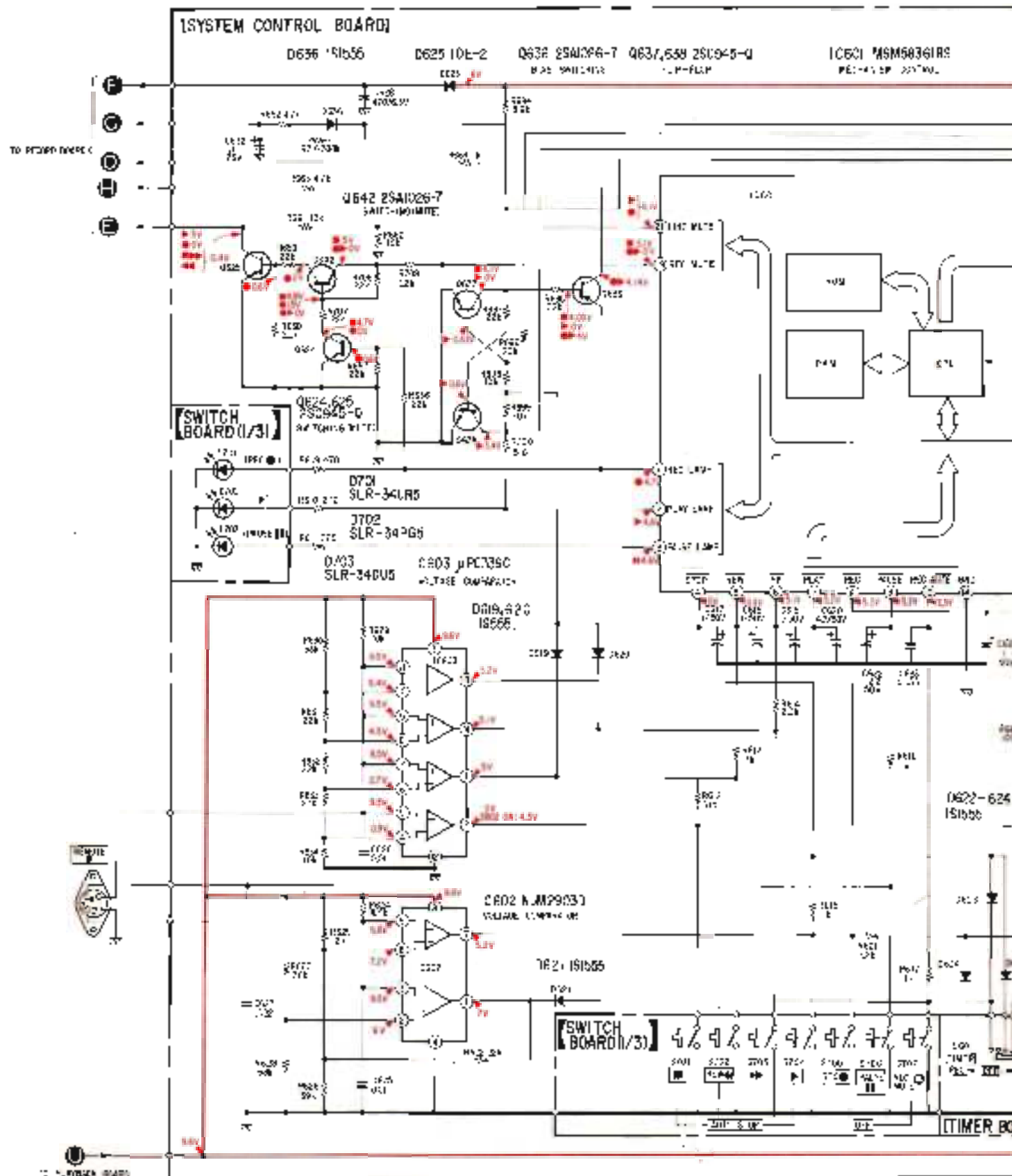


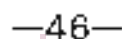
TO METER BOARD

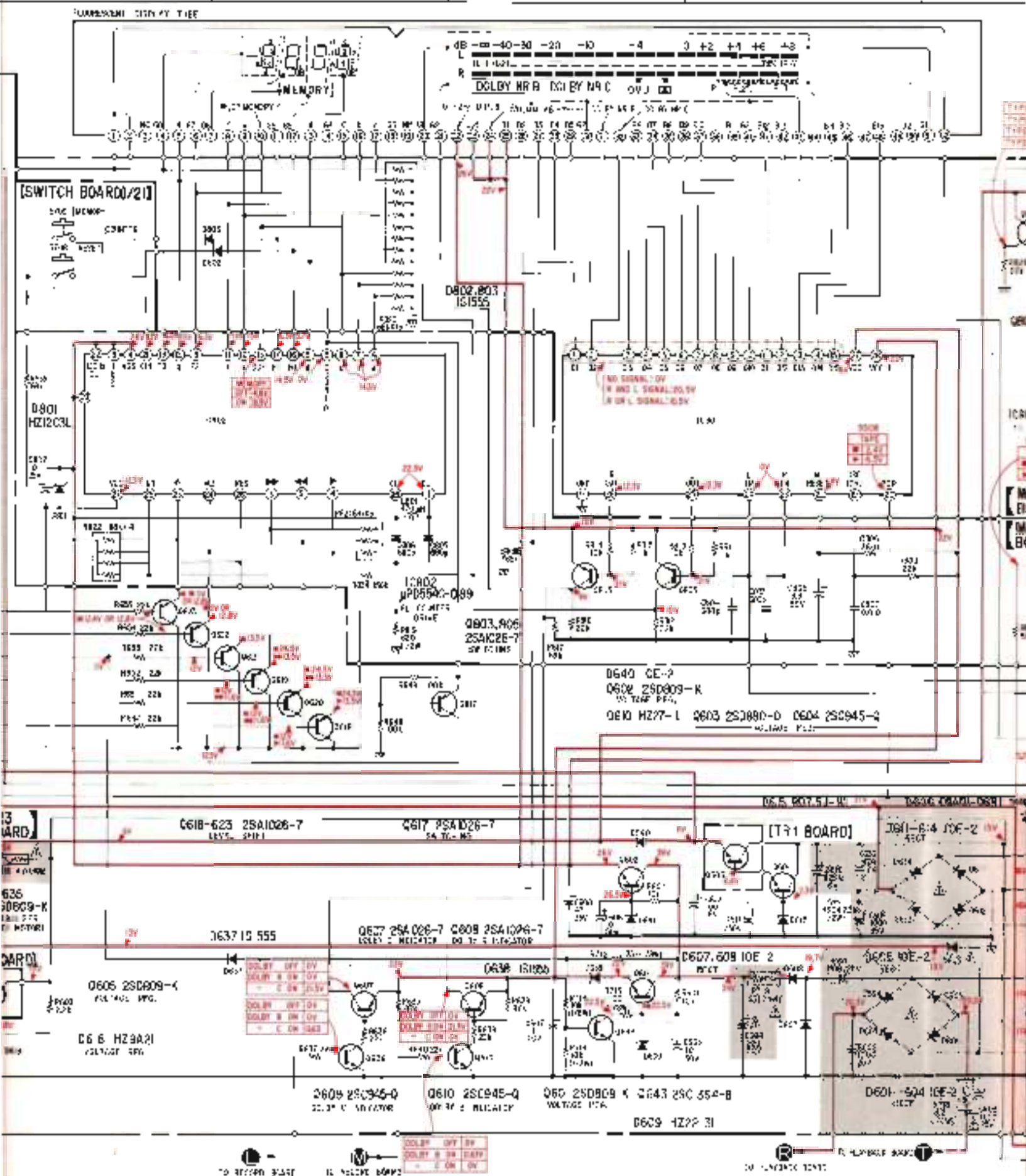




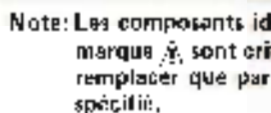
4.4. SCHEMATIC DIAGRAM
— System Control Section —





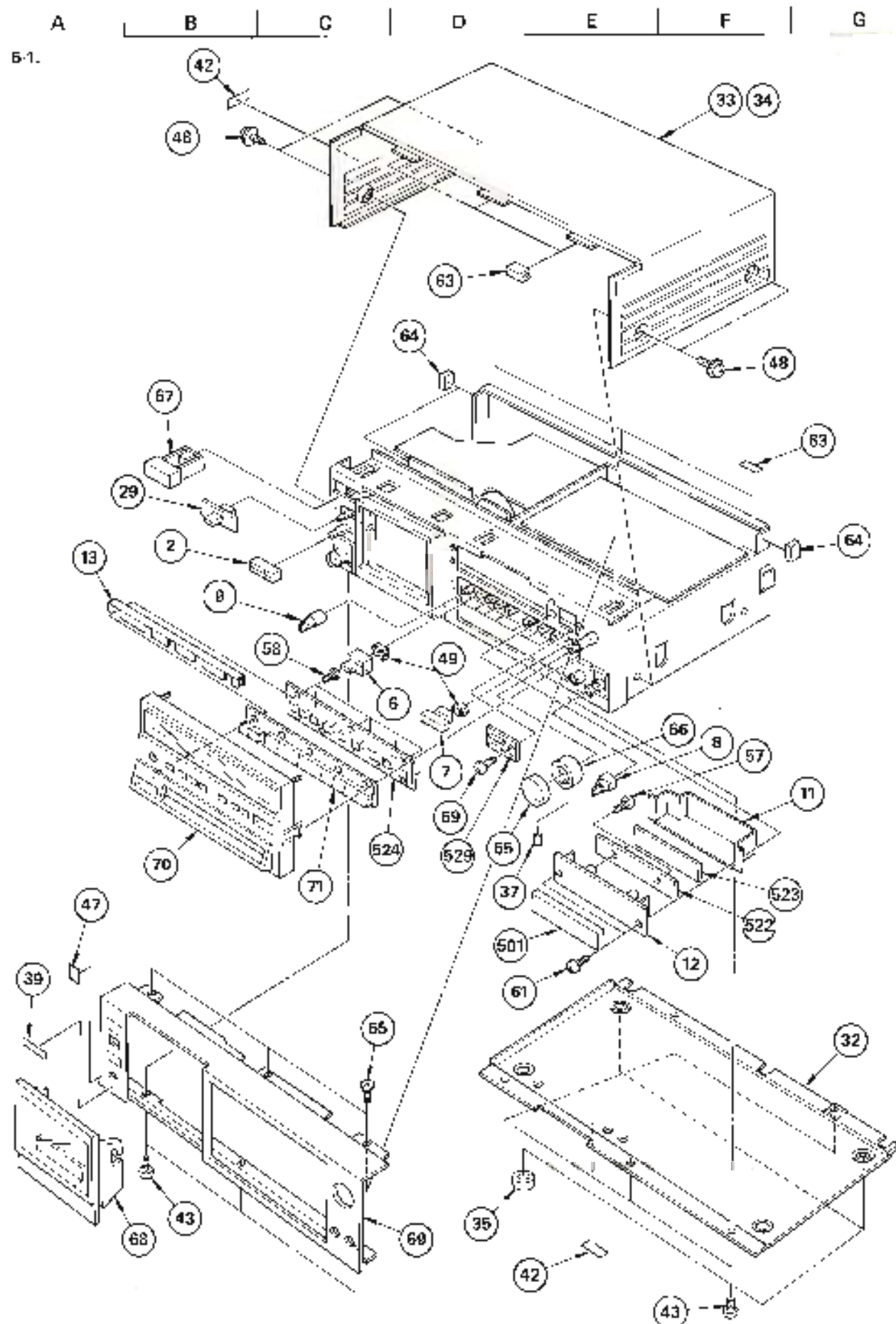


X	Y	Z	A1	B1	C1	D1	E1	F1
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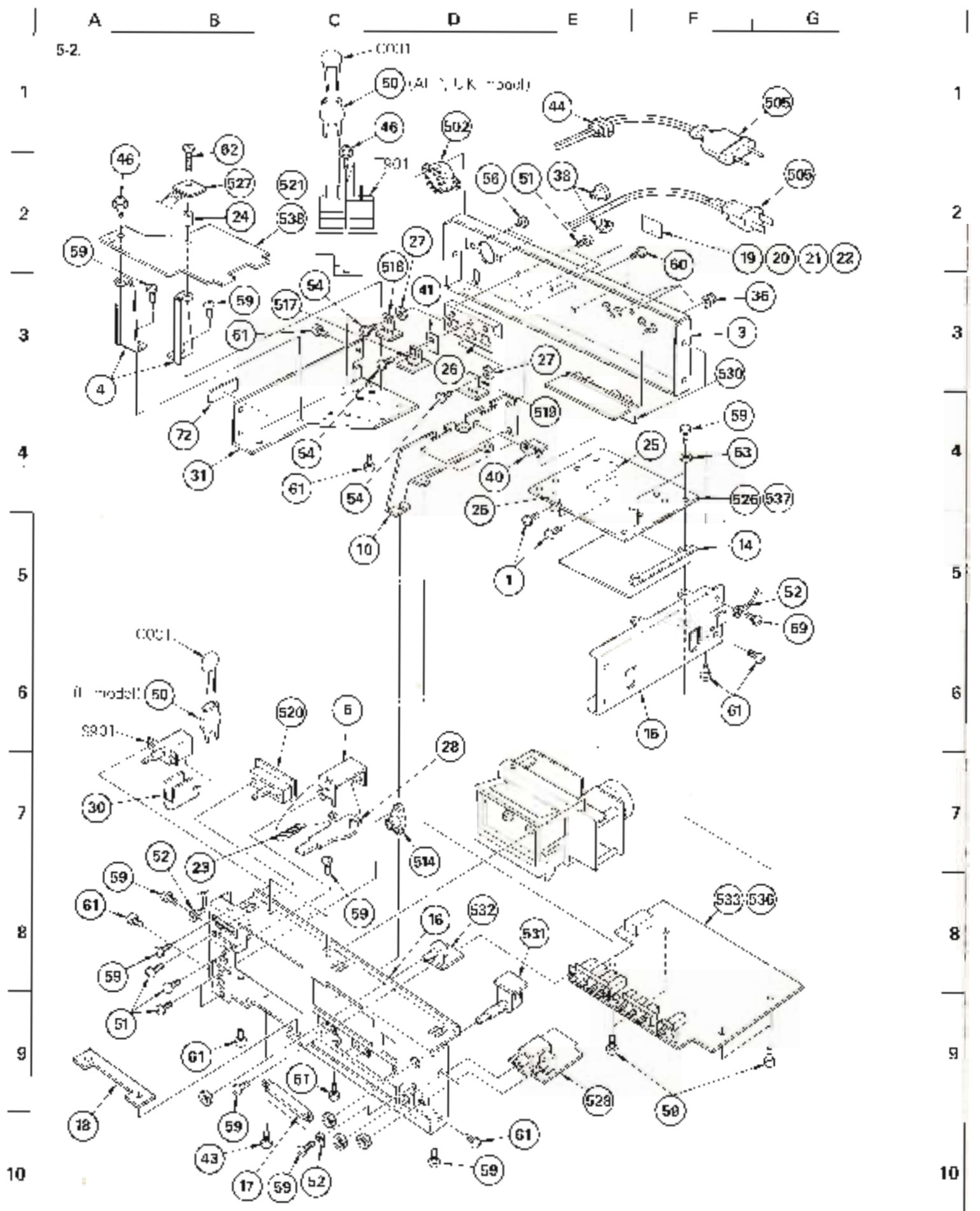


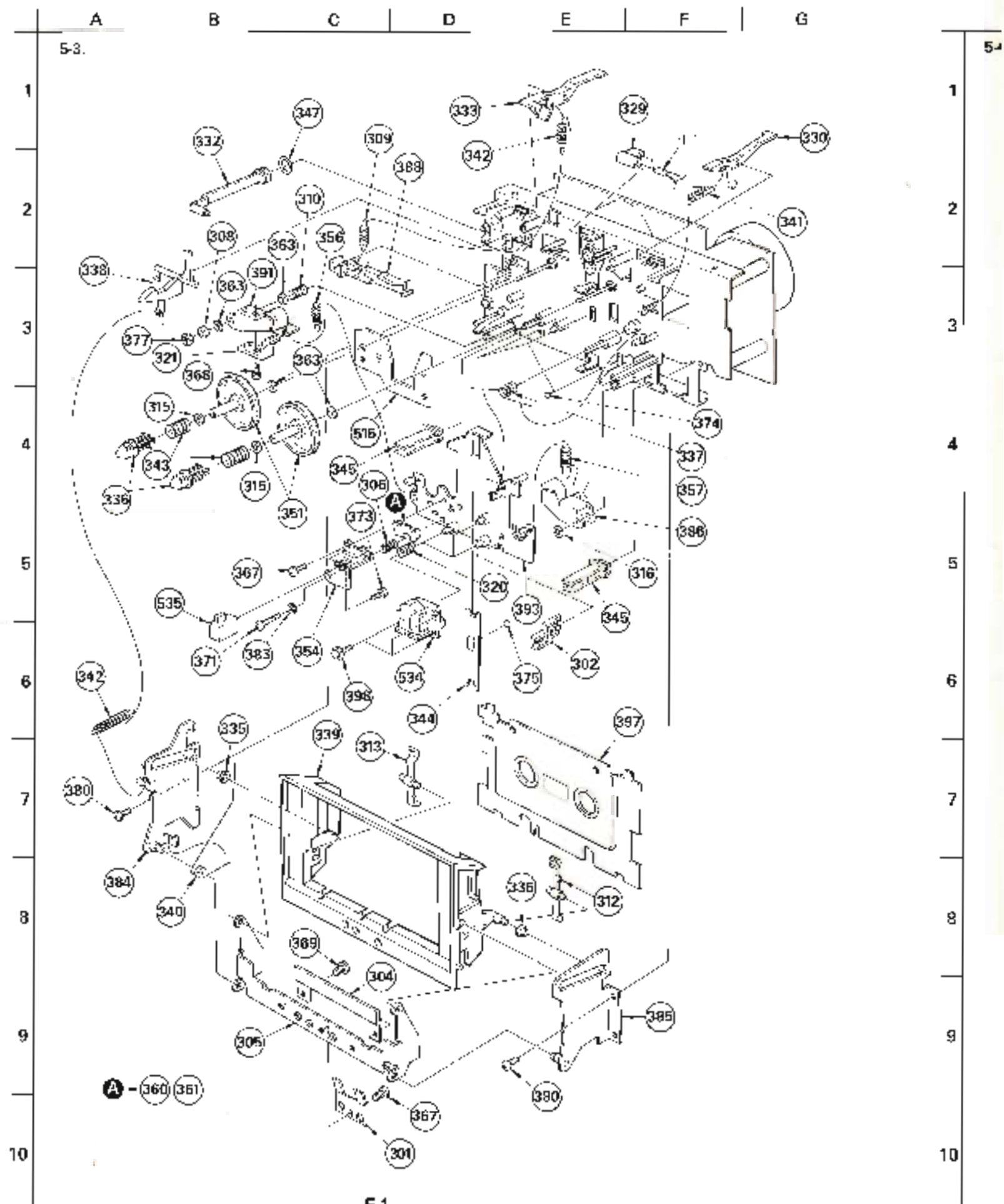
SECTION 5

EXPLODED VIEWS AND PARTS LIST



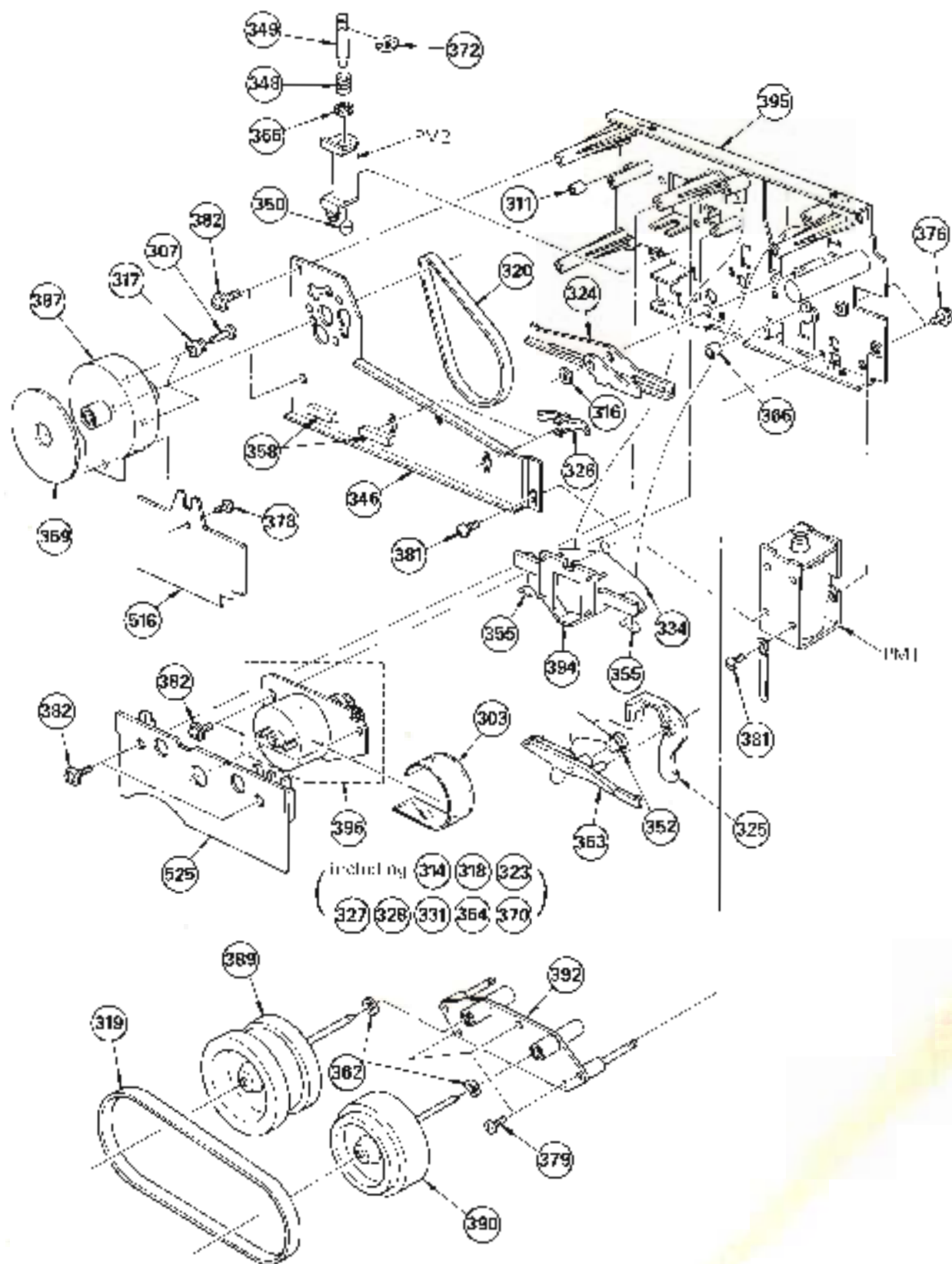
5-2.





A B C D E F G

5-4.



GENERAL SECTION

Qty.	Part No.	Description
1	3-304-416-00	SCREW, T2
2	3-304-416-01	BUTTON, EJECT
3	3-304-907-01	(US,Canada).....PLATE, JACK
3	3-304-908-01	(JAP,UK).....PLATE, JACK
3	3-304-909-02	(J).....PLATE, JACK
4	3-304-910-00	BRACKET, PC BOARD
5	3-304-911-00	SWITCH, EJECT
6	3-304-925-01	KNOP (A), PUSH
7	3-304-927-11	KNOP (B), PUSH
8	3-304-929-11	KNOP, F-NOCTHORN
9	3-304-930-11	KNOP, T-AS
10	3-304-934-00	PLATE, RELAY
11	3-304-935-00	CASE, SHIELD
12	3-304-938-00	HOLDER, PL TUBE
3	3-304-939-00	BRACKET, CONTROL SWITCH
4	3-304-942-00	PLATE, SH-10, PLASMA PDP
15	3-304-944-00	PLATE, SIDE, RIGHT
16	3-304-949-00	CHASSIS, AMPLIFIER
17	3-304-962-00	CORNER, RT
18	3-304-975-00	SHEET, ORNAMENTAL
19	3-304-976-00	LABEL, MODEL NUMBER (J,CND)
20	3-304-977-00	LABEL, MODEL NUMBER (JEP3)
21	3-304-978-00	LABEL, MODEL NUMBER (UK)
22	3-304-979-00	LABEL, MODEL NUMBER (EL,22)
23	3-534-238-00	SPRING, TENSION
24	3-534-756-00	SWITCH, AT, 250V
25	3-557-242-00	HEAT SINK
26	3-572-809-00	HEAT SINK
27	3-572-803-01	SWITCH, MAGNETIC (A)
28	3-575-502-00	BRACKET, EJECT
29	3-575-519-01	KNOP, SLIDE SWITCH
30	3-575-524-00	CORNER, RIGHT SIDE
31	3-575-537-00	PLATE, SIDE, LEFT
32	3-575-538-01	PLATE, BOTTOM
33	3-575-539-01	CASE
34	3-575-544-01	PLATE, EXPANSION, CASE
35	3-576-731-00	FEET (1)
36	3-596-050-01	PIVOT, NYLON
37	3-701-065-00	SWITCH, PUSH - TO-ON 364
38	3-701-087-00	(US,Canada).....STOPPER, CORD
39	3-701-090-00	(J).....LABEL PLATE IN CAPAC
40	3-701-092-00	BRACKET, CORD HOLDER
41	3-703-097-00	PLATE, SH-10, 10-220
42	3-703-079-00	(US,JC).....LABEL, CAPACITOR, SUB

GENERAL SECTION

Qty.	Part No.	Description
43	3-703-138-01	SCREW, SH-10, 10-220
44	3-703-244-00	(OFF,ON).....STOPPER, CORD
45	3-703-330-01	(UK).....LABEL, SEA
46	3-703-406-00	ATTACH, 335
47	3-703-710-01	SWITCH, SENS SYMBOL (12)
48	4-920-330-01	SCREW, SH, PLUS TURNS
49	4-964-307-00	RING
50	4-975-458-01	(OFF,ON).....CORNER (10,20), CAPACITOR
51	7-521-775-20	SCREW, 2-6x5
52	7-523-036-01	LOCK, 3
53	7-523-955-11	WASHER, 4.0, TUBER
54	7-525-147-00	SCREW, 2-3x6
55	7-582-277-00	SCREW, 4-3x6
56	7-582-547-00	SCREW, 4-3x6
57	7-583-146-14	SCREW, 2-3x8, TUBER, 5/16"
58	7-583-554-15	SCREW, SH-10, 10-220, 10-220, 10-220
59	7-585-877-01	SCREW, 8-11, 3x5 (5)
60	7-585-877-09	SCREW, 8-11, 3x5 (5)
61	7-585-877-01	SCREW, 8-11, 3x5 (5)
62	7-585-877-01	SCREW, 8-11, 3x5 (5)
63	9-911-937-00	CUSHION, FILTER
64	9-911-941-00	CUSHION
65	9-911-959-01	KNOP (RT) ASSY, RT
66	9-911-959-01	KNOP (LT) ASSY, LT
67	9-911-959-01	KNOP ASSY, RIGHT
68	9-911-959-01	KNOP ASSY, LEFT
69	9-911-959-01	PANEL ASSY, FRONT
70	9-911-959-01	FUNCTIONAL SUB ASSY
71	9-911-959-01	SWITCH ASSY, CONTROL
72	3-703-711-00	LABEL, CAUTION, BARRIER

NOTE

- Items with no part number are not described and not stocked because they are taken required for routine service.
- Items marked with * are not stocked since they are so far required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers 10-000-000-00 or 10-000-000-01 may be different from those used in the set.

CAPACITORS

- All capacitors are 100% tested before shipment. Refer to the following table for their part numbers.

RESISTORS

- All resistors are in place. Refer to the following table for their part numbers.

- 100% tested before shipment.

SERVICEMEN

- In each case, the following examples are given: 100-000-000-00, 100-000-000-01, 100-000-000-02, etc.

COILS

- 100-000-000-00, 100-000-000-01, etc.

ACCESSORY & PACKING MATERIAL

No.	Part No.	Description
101	3-552-734-11	CORD, CONNECTION (RCA-744)
102	3-504-903-00	CUSHION (LEFT), UPPER
103	3-504-903-00	CUSHION (RIGHT), UPPER
104	3-504-904-00	CUSHION (LEFT), LOWER
105	3-504-905-00	CUSHION (RIGHT), LOWER
106	3-504-906-00	SHEET, PROTECTION
107	3-504-923-00	SHEET, PROTECTION
108	3-504-990-00	INDIVIDUAL CARTON
109	3-701-630-00	SAFETY, POLY-ETHYLENE
110	3-773-146-11	(Canadian, UK, JEP, E), MANUAL, INSTRUCTION
110	3-773-146-21	(US), MANUAL, INSTRUCTION
110	3-773-146-41	(JEP), MANUAL, INSTRUCTION
111	3-793-491-13	(Canadian, UK, JEP, E), INSTRUCTION
112	3-793-928-11	QUESTIONS
112	3-793-928-13	(Canadian), TAPE (JEP-S)
114	3-1761-105-0	RECESS, CLEANING, R-NO

MECHANISM SECTION

No.	Part No.	Description
301	3-304-639-00	PLATE, SHIELD, HEAD
302	3-304-963-00	RETAINER, LEAD
303	3-306-209-00	PLATE (L), SHIELD, MOTOR
304	3-306-214-00	ESCUTcheon, HEAD ORNAMENT
305	3-306-215-00	LEVER, FOLLOWER, FOLLOWER
306	3-491-272-00	SPRING, COMPRESSION
307	3-499-473-21	SCREW, MOTOR STOPPER
308	3-491-261-00	COLLAR
309	3-537-205-00	SPRING, TENSION
310	3-537-213-00	SPRING, COMPRESSION
311	3-538-051-00	RUBBER, BRAKE
312	3-555-113-00	SPRING (RIGHT)
313	3-555-114-00	SPRING (LEFT)
314	3-556-708-01	WASHER, STOPPER
315	3-556-709-01	WASHER, STOPPER

MECHANISM SECTION

No.	Part No.	Description
316	3-558-700-01	WASHER, STOPPER
317	3-564-017-00	RUBBER, CUSHION
318	3-564-027-11	WELL, LIMITER
319	3-564-086-00	BOLT (2), CAPSTAN
320	3-564-121-00	SPRING, COMPRESSION
321	3-564-138-00	GEAR (S), TAPE
322	3-564-139-00	WELL, CAPSTAN
323	3-575-334-00	WHEEL, GEAR, FR
324	3-575-337-00	LEVER, PAD
325	3-575-313-00	LEVER, LOCK, TUNING
326	3-575-321-00	RELAYING, THRUST, CAPSTAN
327	3-575-324-00	GEAR, TUNING
328	3-575-327-00	STOPPER
329	3-575-328-00	HOLDER, LAMP
330	3-575-331-00	LEVER, DETECTION, PA-
331	3-575-332-00	GEAR, FR
332	3-575-333-00	PISTON
333	3-575-334-00	LEVER, DETECTION, REC
334	3-575-348-00	SPRING
335	3-575-349-00	ROLLER, GUIDE, TIRENDING
336	3-575-350-00	CLAW, REEL TABLE
337	3-575-351-00	SPRING
338	3-575-352-00	LEVER, LOCK
339	3-575-353-00	HOLDER, CLAW
340	3-575-354-00	SPRING
341	3-575-355-00	SPRING, TENSION
342	3-575-356-00	SPRING, TENSION
343	3-575-357-00	SPRING, COMPRESSION
344	3-575-358-00	SPRING
345	3-575-359-00	WHEEL, LEAD
346	3-575-361-00	RETAINER (L), THRUST
347	3-575-362-00	RING, PISTON
348	3-575-363-00	SPRING, COMPRESSION
349	3-575-415-11	ARMOR, MOTOR
350	3-575-416-11	ARMOR, MOTOR
351	3-575-417-00	WHEEL, REEL
352	3-575-458-00	SPRING
353	3-575-460-00	LEVER, STEERING
354	3-575-464-00	WASHER, HEAD, FRONT
355	3-575-465-00	WASHER, BRAKE
356	3-575-466-00	SPRING, TENSION
357	3-575-467-00	WASHER, TENSION
358	3-575-468-00	RUBBER, VIBRATION PROOF
359	3-575-469-00	WASHER, VIBRATION PROOF
360	3-575-470-01	WASHER, VIBRATION PROOF, HEAD

NOTE

Items with no part number and no description are not stocked because they are seldom required for routine service.

Items marked with * are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

Due to standardization, parts with part numbers (3-555-113-00 to 3-555-114-00) may be different from those used in the set.

CAPACITORS

All capacitors are in μF . Common capacitors are omitted. Refer to the following lists for their part numbers.

RESISTORS

All resistors are in ohms. Common 1/4W, 1/2W and 1W carbon resistors are omitted. Refer to the following list for their part numbers.

F = nonflammable

SEMICONDUCTORS

In each case, C = μ , for example: 0.001 μF = 1000 pF, 0.01 μF = 10,000 pF, 0.1 μF = 100,000 pF.

COILS

HM = H, J = LF

MECHANICAL PARTS

No.	Part No.	Description
361	3-701-439-11	5-49, ADJUST WREN, 1/8"X1/2" 1/2"
362	3-701-439-21	WASHER
363	3-701-439-21	WASHER
364	3-701-441-01	WASHER
365	3-701-441-11	WASHER, S
366	4-257-06-12	WREN, 1/8"X1/2" 1/2"
367	7-521-772-00	SCREW -B 243
368	7-521-772-10	SCREW -B 244
369	7-521-772-20	SCREW -B 245
370	7-521-775-10	SCREW -B 246
371	7-521-775-30	SCREW -B 247
372	7-524-110-04	5 JF R, 3/8" x 1/2", TYPE 4
373	7-527-532-3H	SCREW, PRECISION R 1.7X3
374	7-571-112-11	BALL, STEEL
375	7-571-113-11	BALL, STEEL
376	7-562-540-01	SCREW -PSM 2X10
377	7-564-023-04	NUT, TYPE 2
378	7-564-023-11	SCREW -B 1/2" 2.5X7 TYPE 2 R-3
379	7-565-731-01	SCREW -PTT 2.5X5 (S)
380	7-565-852-01	SCREW -BUTT 2.5X6 (S)
381	7-565-872-01	SCREW -BUTT 3X5 (S)
382	7-567-245-21	SCREW, TITANIUM FTPLI 2X6, TYPE 2
383	7-568-302-12	NUT, 2.5, METAL
384	X-3575-301-0	PLATE (A) ASSY, HOLDER FLUORIN
385	X-3575-302-0	PLATE (B) ASSY, HOLDER FLUORIN
386	X-3575-304-0	PINCH LEVER (T) ASSY
387	X-3575-308-0	MOTOR COMPLETE ASSY, 30
388	X-3575-310-0	FAIR ASSY, FRONT, BACK
389	X-3575-318-0	FLANGE (RIGHT) ASSY
390	X-3575-320-0	FLANGE (LEFT) ASSY
391	X-3575-321-0	PINCH LEVER (S) ASSY
392	X-3575-322-0	BASE ASSY, CAPSTAN
393	X-3575-323-0	CHASSIS ASSY, 1000
394	X-3575-342-0	PLATE ASSY, BASE
395	X-3575-344-0	CHASSIS ASSY, MEDIUM
396	X-3575-345-0	MOTOR ASSY, 30
397	X-3575-355-0	PLATE ASSY, CANNON
398	7-701-467-01	SCREW 2X5

ELECTRICAL PARTS

Ref. No.	Part No.	Description
501	1-519-247-00	INDICATOR TUBE, FLUORESCENT
502	1-526-576-31	(E).....SELECTOR, POWER VOLTAGE
503	1-554-067-00	SWITCH, PUSH (S 501-S 504)
504	1-554-068-00	SWITCH, PUSH (S 505-S 508)
505	1-551-472-00	(E2).....CORD, POWER
506	1-555-735-00	(E1).....CORD, POWER
507	1-555-736-00	(A2).....CORD, POWER
508	1-555-035-00	(JK).....CORD, POWER
509	1-555-974-00	(JS, Canadian).....CORD, POWER
510	1-550-063-00	PIN, CONNECTOR 2P
511	1-550-061-00	PIN, CONNECTOR 3P
512	1-550-062-00	PIN, CONNECTOR 4P
513	1-550-063-00	PIN, CONNECTOR 5P
514	1-550-064-00	PIN, CONNECTOR 6P
515	1-550-065-00	PIN, CONNECTOR 7P
516	1-550-066-00	PIN, CONNECTOR 8P
517	1-550-067-00	PIN, CONNECTOR 9P
518	1-550-068-00	PIN, CONNECTOR 10P
519	1-550-069-00	PIN, CONNECTOR 11P
520	1-551-295-00	SCREW (42)
521	1-603-823-00	PC BOARD, PHOTO
522	1-603-825-00	PC BOARD, SERVO
523	1-606-778-00	PC BOARD, TR-1
524	1-606-779-00	PC BOARD, TR-2
525	1-606-780-00	PC BOARD, TR-3
526	1-606-781-00	PC BOARD, TR-4
527	1-606-782-00	PC BOARD, SYSTEM CONTROL
528	1-606-783-00	PC BOARD, NETTER (A)
529	1-606-784-00	PC BOARD, NETTER (B)
530	1-606-785-00	PC BOARD, CONTROL SWITCH
531	1-605-736-00	PC BOARD, ME
532	1-606-737-00	PC BOARD, ME
533	1-607-434-00	PC BOARD, ME
534	1-608-472-00	PC BOARD, L.P.
535	1-603-473-00	PC BOARD, LAMP
536	1-608-474-00	PC BOARD, PIN CABLE
537	1-608-475-00	PC BOARD, VOLT
538	1-603-476-00	PC BOARD, ETAS ETAS
539	1-608-477-00	PC BOARD, REC
540	3-825-500-00	HEAT, HEAT (R 4230-3602)
541	3-825-504-00	HEAT, CASE (R 205-386)
542	1-2006-345-A	HEAT, REC, REC
543	1-2006-347-A	HEAT, REC, REC
544	1-2006-349-A	HEAT, REC, REC

ELECTRICAL PAPER

[illegible]

HOLBROOK, FOSBIS

Ref. No.	Part No.	Description
D604	8-719-200-02	O100E 13E-2
D605	8-719-200-02	O100E 13E-2
D606	8-719-999-81	O100E EQA31-C921
D607	8-719-200-02	O100E 13E-2
D608	8-719-200-02	O100E 13E-2
D609	8-719-902-23	O100E K222-3L
D610	8-719-922-71	O100E 1E21-1L
D611	8-719-200-02	O100E 10E-2
D612	8-719-200-02	O100E 10E-2
D613	8-719-200-02	O100E 10E-2
D614	8-719-200-02	O100E 10E-2
D616	8-719-815-55	O100E 1S1555
D617	8-719-815-55	O100E 1S1555
D618	8-719-815-55	O100E 1S1555
D619	8-719-815-55	O100E 1S1555
D620	8-719-815-55	O100E 1S1555
D621	8-719-815-55	O100E 1S1555
D622	8-719-815-55	O100E 1S1555
D623	8-719-815-55	O100E 1S1555
D624	8-719-815-55	O100E 1S1555
D625	8-719-815-55	O100E 1S1555
D626	8-719-200-02	O100E 13E-2
D627	8-719-815-55	O100E 1S1555
D628	8-719-815-55	O100E 1S1555
D629	8-719-815-55	O100E 1S1555
D630	8-719-815-55	O100E 1S1555
D631	8-719-815-55	O100E 1S1555
D632	8-719-200-02	O100E 13E-2
D633	8-719-815-55	O100E 1S1555
D634	8-719-815-55	O100E 1S1555
D635	8-719-815-55	O100E 1S1555
D636	8-719-815-55	O100E 1S1555
D637	8-719-815-55	O100E 1S1555
D638	8-719-815-55	O100E 1S1555
D639	8-719-200-02	O100E 13E-2
D640	8-719-200-02	O100E 13E-2
D641	8-719-815-55	O100E 1S1555
D642	8-719-815-55	O100E 1S1555
D643	8-719-815-55	O100E 1S1555
D644	8-719-815-55	O100E 1S1555
D645	8-719-815-55	O100E 1S1555
D646	8-719-902-33	O100E 3L2-34065
D647	8-719-902-26	O100E 3L2-34065
D648	8-719-902-26	O100E 3L2-34065
D649	8-719-902-26	O100E 3L2-34065
D650	8-719-902-26	O100E 3L2-34065
D651	8-719-902-26	O100E 3L2-34065
D652	8-719-902-26	O100E 3L2-34065
D653	8-719-902-26	O100E 3L2-34065
D654	8-719-902-26	O100E 3L2-34065
D655	8-719-902-26	O100E 3L2-34065
D656	8-719-902-26	O100E 3L2-34065
D657	8-719-902-26	O100E 3L2-34065
D658	8-719-902-26	O100E 3L2-34065
D659	8-719-902-26	O100E 3L2-34065
D660	8-719-902-26	O100E 3L2-34065
D661	8-719-902-26	O100E 3L2-34065
D662	8-719-902-26	O100E 3L2-34065
D663	8-719-902-26	O100E 3L2-34065
D664	8-719-902-26	O100E 3L2-34065
D665	8-719-902-26	O100E 3L2-34065
D666	8-719-902-26	O100E 3L2-34065
D667	8-719-902-26	O100E 3L2-34065
D668	8-719-902-26	O100E 3L2-34065
D669	8-719-902-26	O100E 3L2-34065
D670	8-719-902-26	O100E 3L2-34065
D671	8-719-902-26	O100E 3L2-34065
D672	8-719-902-26	O100E 3L2-34065
D673	8-719-902-26	O100E 3L2-34065
D674	8-719-902-26	O100E 3L2-34065
D675	8-719-902-26	O100E 3L2-34065
D676	8-719-902-26	O100E 3L2-34065
D677	8-719-902-26	O100E 3L2-34065
D678	8-719-902-26	O100E 3L2-34065
D679	8-719-902-26	O100E 3L2-34065
D680	8-719-902-26	O100E 3L2-34065
D681	8-719-902-26	O100E 3L2-34065
D682	8-719-902-26	O100E 3L2-34065
D683	8-719-902-26	O100E 3L2-34065
D684	8-719-902-26	O100E 3L2-34065
D685	8-719-902-26	O100E 3L2-34065
D686	8-719-902-26	O100E 3L2-34065
D687	8-719-902-26	O100E 3L2-34065
D688	8-719-902-26	O100E 3L

H¹¹⁻⁵

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked "A" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers 12 and 222 X2 or 2-2222-222-X1 may be different from those used in the past.

CAUSE ITGSS

All experiments are in 1:1 carbon nanotubes are crushed, prior to the following lists for the report covers of the 1:1 tubes.

27515TCS

* All resistors are in ohms. Common 1/4W, 1% and 1/15W carbon resistors are omitted. Refer to the following lists for their part numbers.

- f : untable $\cdot \text{Ht} = \text{TH} \cdot \text{H} = \text{H}$

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque **A** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

ELECTRICAL PARTS

Ref. No.	Part No.	Description
D803	8-719-815-56	J. BOX 1S1553
D801	8-719-110-27	CONNECTOR 4P-2
D802	8-719-815-56	CONNECTOR 1S1553
E901	8-719-814-11	CONNECTOR 1S104
E902	8-719-814-11	CONNECTOR 1S104
IC101	8-759-100-04	IC CX-174
IC102	8-759-100-04	IC CX-174
IC201	8-759-100-04	IC CX-174
IC202	8-759-100-04	IC CX-174
IC203	8-759-100-04	IC CX-174
IC301	8-759-100-04	IC CX-174
IC302	8-759-100-04	IC CX-174
IC303	8-759-100-04	IC CX-174
IC401	8-759-100-04	IC CX-174
IC402	8-759-100-04	IC CX-174
IC501	8-759-100-04	IC CX-174
IC601	8-759-951-38	IC 646138
IC602	8-759-145-57	IC 646138
IC603	8-759-900-71	IC 646138
IC604	8-759-100-04	IC CX-174
IC605	8-759-100-04	IC CX-174
IC606	8-759-100-04	IC CX-174
IC607	8-759-100-04	IC CX-174
IC608	8-759-100-04	IC CX-174
IC609	8-759-100-04	IC CX-174
IC610	8-759-100-04	IC CX-174
IC611	8-759-100-04	IC CX-174
IC612	8-759-100-04	IC CX-174
IC613	8-759-100-04	IC CX-174
IC614	8-759-100-04	IC CX-174
IC615	8-759-100-04	IC CX-174
IC616	8-759-100-04	IC CX-174
IC617	8-759-100-04	IC CX-174
IC618	8-759-100-04	IC CX-174
IC619	8-759-100-04	IC CX-174
IC620	8-759-100-04	IC CX-174
IC621	8-759-100-04	IC CX-174
IC622	8-759-100-04	IC CX-174
IC623	8-759-100-04	IC CX-174
IC624	8-759-100-04	IC CX-174
IC625	8-759-100-04	IC CX-174
IC626	8-759-100-04	IC CX-174
IC627	8-759-100-04	IC CX-174
IC628	8-759-100-04	IC CX-174
IC629	8-759-100-04	IC CX-174
IC630	8-759-100-04	IC CX-174
IC631	8-759-100-04	IC CX-174
IC632	8-759-100-04	IC CX-174
IC633	8-759-100-04	IC CX-174
IC634	8-759-100-04	IC CX-174
IC635	8-759-100-04	IC CX-174
IC636	8-759-100-04	IC CX-174
IC637	8-759-100-04	IC CX-174
IC638	8-759-100-04	IC CX-174
IC639	8-759-100-04	IC CX-174
IC640	8-759-100-04	IC CX-174
IC641	8-759-100-04	IC CX-174
IC642	8-759-100-04	IC CX-174
IC643	8-759-100-04	IC CX-174
IC644	8-759-100-04	IC CX-174
IC645	8-759-100-04	IC CX-174
IC646	8-759-100-04	IC CX-174
IC647	8-759-100-04	IC CX-174
IC648	8-759-100-04	IC CX-174
IC649	8-759-100-04	IC CX-174
IC650	8-759-100-04	IC CX-174
LFF301	1-231-338-00	FILTER, CAPACITORS
LFF401	1-231-338-00	FILTER, CAPACITORS

ELECTRICAL PARTS

Ref. No.	Part No.	Description
PL1	1-518-313-00	PLATE, FILLER
PL501	1-518-459-21	PLATE, FILLER
PL502	1-518-459-21	PLATE, FILLER
PL503	1-518-459-21	PLATE, FILLER
PL504	1-518-459-21	PLATE, FILLER
PL505	1-518-459-21	PLATE, FILLER
PL506	1-518-459-21	PLATE, FILLER
PL507	1-518-459-21	PLATE, FILLER
PL508	1-518-459-21	PLATE, FILLER
PL509	1-518-459-21	PLATE, FILLER
PL510	1-518-459-21	PLATE, FILLER
PL511	1-518-459-21	PLATE, FILLER
PL512	1-518-459-21	PLATE, FILLER
PL513	1-518-459-21	PLATE, FILLER
PL514	1-518-459-21	PLATE, FILLER
PL515	1-518-459-21	PLATE, FILLER
PL516	1-518-459-21	PLATE, FILLER
PL517	1-518-459-21	PLATE, FILLER
PL518	1-518-459-21	PLATE, FILLER
PL519	1-518-459-21	PLATE, FILLER
PL520	1-518-459-21	PLATE, FILLER
PL521	1-518-459-21	PLATE, FILLER
PL522	1-518-459-21	PLATE, FILLER
PL523	1-518-459-21	PLATE, FILLER
PL524	1-518-459-21	PLATE, FILLER
PL525	1-518-459-21	PLATE, FILLER
PL526	1-518-459-21	PLATE, FILLER
PL527	1-518-459-21	PLATE, FILLER
PL528	1-518-459-21	PLATE, FILLER
PL529	1-518-459-21	PLATE, FILLER
PL530	1-518-459-21	PLATE, FILLER
PL531	1-518-459-21	PLATE, FILLER
PL532	1-518-459-21	PLATE, FILLER
PL533	1-518-459-21	PLATE, FILLER
PL534	1-518-459-21	PLATE, FILLER
PL535	1-518-459-21	PLATE, FILLER
PL536	1-518-459-21	PLATE, FILLER
PL537	1-518-459-21	PLATE, FILLER
PL538	1-518-459-21	PLATE, FILLER
PL539	1-518-459-21	PLATE, FILLER
PL540	1-518-459-21	PLATE, FILLER
PL541	1-518-459-21	PLATE, FILLER
PL542	1-518-459-21	PLATE, FILLER
PL543	1-518-459-21	PLATE, FILLER
PL544	1-518-459-21	PLATE, FILLER
PL545	1-518-459-21	PLATE, FILLER
PL546	1-518-459-21	PLATE, FILLER
PL547	1-518-459-21	PLATE, FILLER
PL548	1-518-459-21	PLATE, FILLER
PL549	1-518-459-21	PLATE, FILLER
PL550	1-518-459-21	PLATE, FILLER
PL551	1-518-459-21	PLATE, FILLER
PL552	1-518-459-21	PLATE, FILLER
PL553	1-518-459-21	PLATE, FILLER
PL554	1-518-459-21	PLATE, FILLER
PL555	1-518-459-21	PLATE, FILLER
PL556	1-518-459-21	PLATE, FILLER
PL557	1-518-459-21	PLATE, FILLER
PL558	1-518-459-21	PLATE, FILLER
PL559	1-518-459-21	PLATE, FILLER
PL560	1-518-459-21	PLATE, FILLER
PL561	1-518-459-21	PLATE, FILLER
PL562	1-518-459-21	PLATE, FILLER
PL563	1-518-459-21	PLATE, FILLER
PL564	1-518-459-21	PLATE, FILLER
PL565	1-518-459-21	PLATE, FILLER
PL566	1-518-459-21	PLATE, FILLER
PL567	1-518-459-21	PLATE, FILLER
PL568	1-518-459-21	PLATE, FILLER
PL569	1-518-459-21	PLATE, FILLER
PL570	1-518-459-21	PLATE, FILLER
PL571	1-518-459-21	PLATE, FILLER
PL572	1-518-459-21	PLATE, FILLER
PL573	1-518-459-21	PLATE, FILLER
PL574	1-518-459-21	PLATE, FILLER
PL575	1-518-459-21	PLATE, FILLER
PL576	1-518-459-21	PLATE, FILLER
PL577	1-518-459-21	PLATE, FILLER
PL578	1-518-459-21	PLATE, FILLER
PL579	1-518-459-21	PLATE, FILLER
PL580	1-518-459-21	PLATE, FILLER
PL581	1-518-459-21	PLATE, FILLER
PL582	1-518-459-21	PLATE, FILLER
PL583	1-518-459-21	PLATE, FILLER
PL584	1-518-459-21	PLATE, FILLER
PL585	1-518-459-21	PLATE, FILLER
PL586	1-518-459-21	PLATE, FILLER
PL587	1-518-459-21	PLATE, FILLER
PL588	1-518-459-21	PLATE, FILLER
PL589	1-518-459-21	PLATE, FILLER
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PL592	1-518-459-21	PLATE, FILLER
PL593	1-518-459-21	PLATE, FILLER
PL594	1-518-459-21	PLATE, FILLER
PL595	1-518-459-21	PLATE, FILLER
PL596	1-518-459-21	PLATE, FILLER
PL597	1-518-459-21	PLATE, FILLER
PL598	1-518-459-21	PLATE, FILLER
PL599	1-518-459-21	PLATE, FILLER
PL600	1-518-459-21	PLATE, FILLER
PL601	1-518-459-21	PLATE, FILLER
PL602	1-518-459-21	PLATE, FILLER
PL603	1-518-459-21	PLATE, FILLER
PL604	1-518-459-21	PLATE, FILLER
PL605	1-518-459-21	PLATE, FILLER
PL606	1-518-459-21	PLATE, FILLER
PL607	1-518-459-21	PLATE, FILLER
PL608	1-518-459-21	PLATE, FILLER
PL609	1-518-459-21	PLATE, FILLER
PL610	1-518-459-21	PLATE, FILLER
PL611	1-518-459-21	PLATE, FILLER
PL612	1-518-459-21	PLATE, FILLER
PL613	1-518-459-21	PLATE, FILLER
PL614	1-518-459-21	PLATE, FILLER
PL615	1-518-459-21	PLATE, FILLER
PL616	1-518-459-21	PLATE, FILLER
PL617	1-518-459-21	PLATE, FILLER
PL618	1-518-459-21	PLATE, FILLER
PL619	1-518-459-21	PLATE, FILLER
PL620	1-518-459-21	PLATE, FILLER
PL621	1-518-459-21	PLATE, FILLER
PL622	1-518-459-21	PLATE, FILLER
PL623	1-518-459-21	PLATE, FILLER
PL624	1-518-459-21	PLATE, FILLER
PL625	1-518-459-21	PLATE, FILLER
PL626	1-518-459-21	PLATE, FILLER
PL627	1-518-459-21	PLATE, FILLER
PL628	1-518-459-21	PLATE, FILLER
PL629	1-518-459-21	PLATE, FILLER
PL630	1-518-459-21	PLATE, FILLER
PL631	1-518-459-21	PLATE, FILLER
PL632	1-518-459-21	PLATE, FILLER
PL633	1-518-459-21	PLATE, FILLER
PL634	1-518-459-21	PLATE, FILLER
PL635	1-518-459-21	PLATE, FILLER
PL636	1-518-459-21	PLATE, FILLER
PL637	1-518-459-21	PLATE, FILLER
PL638	1-518-459-21	PLATE, FILLER
PL639	1-518-459-21	PLATE, FILLER
PL640	1-518-459-21	PLATE, FILLER
PL641	1-518-459-21	PLATE, FILLER
PL642	1-518-459-21	PLATE, FILLER
PL643	1-518-459-21	PLATE, FILLER
PL644	1-518-459-21	PLATE, FILLER
PL645	1-518-459-21	PLATE, FILLER
PL646	1-518-459-21	PLATE, FILLER
PL647	1-518-459-21	PLATE, FILLER
PL648	1-518-459-21	PLATE, FILLER
PL649	1-518-459-21	PLATE, FILLER
PL650	1-518-459-21	PLATE, FILLER
PL651	1-518-459-21	PLATE, FILLER
PL652	1-518-459-21	PLATE, FILLER
PL653	1-518-459-21	PLATE, FILLER
PL654	1-518-459-21	PLATE, FILLER
PL655	1-518-459-21	PLATE, FILLER
PL656	1-518-459-21	PLATE, FILLER
PL657	1-518-459-21	PLATE, FILLER
PL658	1-518-459-21	PLATE, FILLER
PL659	1-518-459-21	PLATE, FILLER
PL660	1-518-459-21	PLATE, FILLER
PL661	1-518-459-21	PLATE, FILLER
PL662	1-518-459-21	PLATE, FILLER
PL663	1-518-459-21	PLATE, FILLER
PL664	1-518-459-21	PLATE, FILLER
PL665	1-518-459-21	PLATE, FILLER
PL666	1-518-459-21	PLATE, FILLER
PL667	1-518-459-21	PLATE, FILLER
PL668	1-518-459-21	PLATE, FILLER
PL669	1-518-459-21	PLATE, FILLER
PL670	1-518-459-21	PLATE, FILLER
PL671	1-518-459-21	PLATE, FILLER
PL672	1-518-459-21	PLATE, FILLER
PL673	1-518-459-21	PLATE, FILLER
PL674	1-518-459-21	PLATE, FILLER
PL675	1-518-459-21	PLATE, FILLER
PL676	1-518-459-21	PLATE, FILLER
PL677	1-518-459-21	PLATE, FILLER
PL678	1-518-459-21	PLATE, FILLER
PL679	1-518-459-21	PLATE, FILLER
PL680	1-518-459-21	PLATE, FILLER
PL681	1-518-459-21	PLATE, FILLER
PL682	1-518-459-21	PLATE, FILLER
PL683	1-518-459-21	PLATE, FILLER
PL684	1-518-459-21	PLATE, FILLER
PL685	1-518-459-21	PLATE, FILLER
PL686	1-518-459-21	PLATE, FILLER
PL687	1-518-459-21	PLATE, FILLER
PL688	1-518-459-21	PLATE, FILLER
PL689	1-518-459-21	PLATE, FILLER
PL690	1-518-459-21	PLATE, FILLER
PL691	1-518-459-21	PLATE, FILLER
PL692	1-518-459-21	PLATE, FILLER
PL693	1-518-459-21	PLATE, FILLER
PL694	1-518-459-21	PLATE, FILLER
PL695	1-518-459-21	PLATE, FILLER
PL696	1-518-459-21	PLATE, FILLER
PL697	1-518-459-21	PLATE, FILLER
PL698	1-518-459-21	PLATE, FILLER
PL699	1-518-459-21	PLATE, FILLER
PL700	1-518-459-21	PLATE, FILLER

NOTES:

Items with no part number and no description are not stocked because they are so often required for routine work.

- Items marked with * are not stocked since they are seldom required for routine work. Some delay should be anticipated when ordering these items.

Due to standardization, parts with part numbers 1-500-000-00 or 1-500-000-01 may be different from those used in the set.

CONNECTORS

All connectors are in the common position unless otherwise indicated. Refer to the following lists for their part numbers.

COILS

All resistors are in ohms. Common 1/4W, 1/2W and 1W carbon resistors are stocked. Refer to the following lists for their part numbers.

- * F : non-flammable

SEMICONDUCTORS

In each case, J is 1, for example: J1-1-518

FIFTH FIFES

[illegible]

LOCAL 83'S

<u>Ref.No.</u>	<u>Part. No.</u>	<u>Description</u>	
Q623	8-729-502-67	TRANSISTOR	25A1025-7
Q624	8-729-563-17	TRANSISTOR	25C1364
Q626	8-729-563-17	TRANSISTOR	25C1364
Q626	8-729-102-03	TRANSISTOR	25D1320
Q627	8-729-102-03	TRANSISTOR	25D1320
Q628	8-729-103-01	TRANSISTOR	25D1334
Q629	8-729-663-08	TRANSISTOR	25D1364-8
Q630	8-729-380-05	TRANSISTOR	25B308
Q631	8-729-663-08	TRANSISTOR	25D1364
Q632	8-729-381-26	TRANSISTOR	25D1012
Q633	8-729-381-26	TRANSISTOR	25D1012
Q634	8-729-663-07	TRANSISTOR	25C1364
Q635	8-729-163-93	TRANSISTOR	25D009
Q636	8-729-502-67	TRANSISTOR	25A1025-7
Q637	8-729-563-17	TRANSISTOR	25C1364
Q638	8-729-563-17	TRANSISTOR	25C1364
Q639	8-729-103-03	TRANSISTOR	25D1334-4
Q640	8-729-563-08	TRANSISTOR	25C1364-8
Q641	8-729-502-67	TRANSISTOR	25A1025-7
Q642	8-729-502-67	TRANSISTOR	25A1025-7
Q643	8-729-563-08	TRANSISTOR	25C1364-8
Q801	8-725-653-18	TRANSISTOR	25C1364-8
Q802	8-729-602-57	TRANSISTOR	25A1025-7
Q803	8-729-602-57	TRANSISTOR	25A1025-7
Q804	8-729-177-13	TRANSISTOR	25C1374
Q902	8-729-103-13	TRANSISTOR	25B134
Q903	8-729-177-13	TRANSISTOR	25C1374
Q904	8-729-103-13	TRANSISTOR	25B134
Q905	8-729-101-02	TRANSISTOR	25C132
Q906	8-729-101-02	TRANSISTOR	25C132
R101	1-244-915-51	CAPACITOR	50K
R102	1-244-853-00	CAPACITOR	150
R103	1-244-913-110	CAPACITOR	150K
R104	1-244-994-110	CAPACITOR	30K
R110	1-244-837-00	CAPACITOR	10K
R111	1-244-529-00	CAPACITOR	220K
R116	1-214-556-00	METAL	1-2M
R118	1-214-728-00	METAL	10K
R121	1-214-729-00	METAL	1K
R122	1-214-756-00	METAL	30K
R126	1-214-713-00	METAL	220
R127	1-214-751-00	METAL	910

4114

- Items with no part number are no description are not stocked because they are seldom required for routine service.
- Items marked with * are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers 10-100-0000 and 10-100-0001 may be different from those used in the rest.

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- * All operations are in $\mathbb{F}_p$. Certain characters are omitted. Refer to the following lists for their part numbers.

RESULTS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
- f : unspecified

SYNTHETICS

- In each case, $U = \{u_i\}$, for example:
 $U_0 \dots: \mu_0 \dots, U_1 \dots: \mu_1 \dots, U_2 \dots: \mu_2 \dots, U_3 \dots: \mu_3 \dots$
 $U_4 \dots: \mu_4 \dots, U_5 \dots: \mu_5 \dots, U_6 \dots: \mu_6 \dots, U_7 \dots: \mu_7 \dots$

5716

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Mechanical Parts

Ref. No.	Part No.	Description	QTY	UOM	Notes
R128	1-214-745-00	METAL	5.1K	12	1/4A
R130	1-214-741-00	METAL	3.3K	12	1/4A
R131	1-214-743-00	METAL	1.0K	12	1/4A
R132	1-214-741-00	METAL	3.3K	12	1/4A
R142	1-214-564-00	METAL	1M	12	1/4A
R145	1-214-758-00	METAL	1.0K	12	1/4A
R150	1-214-664-00	METAL	1M	12	1/4A
R201	1-244-916-00	CARBON	5.6K	50	1/2A
R202	1-244-953-00	CARBON	1.5K	75	1/2A
R203	1-244-899-00	CARBON	5.1K	50	1/2A
R204	1-244-924-00	CARBON	1.0K	50	1/2A
R210	1-244-927-00	CARBON	1.0K	75	1/2A
R211	1-244-329-00	CARBON	220K	50	1/2A
R212	1-244-903-00	CARBON	22K	50	1/2A
R216	1-214-965-00	METAL	1.0M	12	1/4A
R219	1-214-748-00	METAL	1.0K	12	1/4A
R221	1-214-729-00	METAL	1K	12	1/4A
R222	1-214-766-00	METAL	3.3K	12	1/4A
R226	1-214-713-00	METAL	220	12	1/4A
R227	1-214-131-00	METAL	91C	12	1/4A
R228	1-214-746-00	METAL	5.1K	12	1/4A
R230	1-214-741-00	METAL	3.3K	12	1/4A
R231	1-214-753-00	METAL	1.0K	12	1/4A
R232	1-214-741-00	METAL	3.3K	12	1/4A
R242	1-214-904-00	METAL	1M	12	1/4A
R245	1-214-758-00	METAL	1.0K	12	1/4A
R253	1-214-564-00	METAL	1M	12	1/4A
R301	1-244-959-00	CARBON	33K	50	1/2A
R304	1-244-373-00	CARBON	1K	50	1/2A
R314	1-214-364-00	METAL	1K	12	1/4A
R320	1-214-758-00	METAL	1.0K	12	1/4A
R337	1-214-965-00	METAL	1.0M	12	1/4A
R341	1-214-753-00	METAL	1.0K	12	1/4A
R345	1-214-745-00	METAL	5.1K	12	1/4A
R350	1-214-131-00	METAL	91C	12	1/4A
R351	1-214-713-00	METAL	22C	12	1/4A
R356	1-214-741-00	METAL	3.3K	12	1/4A
R360	1-214-766-00	METAL	3.3K	12	1/4A
R361	1-214-741-00	METAL	3.3K	12	1/4A
R358	1-214-739-00	METAL	2.2K	12	1/4A
R386	1-244-981-00	CARBON	2.2K	50	1/2A
R395	1-244-861-00	CARBON	2.2K	50	1/2A
R401	1-244-909-00	CARBON	33K	50	1/2A
R404	1-244-873-00	CARBON	1K	50	1/2A
R414	1-214-964-00	METAL	1K	12	1/4A

Electrical Parts

Ref. No.	Part No.	Description	QTY	UOM	Notes
R423	1-214-758-00	METAL	1.0K	12	1/4A
R437	1-214-956-00	METAL	1.0M	12	1/4A
R441	1-214-758-00	METAL	1.0K	12	1/4A
R442	1-214-746-00	METAL	5.1K	12	1/4A
R450	1-214-131-00	METAL	91C	12	1/4A
R451	1-214-713-00	METAL	22C	12	1/4A
R456	1-214-741-00	METAL	3.3K	12	1/4A
R460	1-214-753-00	METAL	1.0K	12	1/4A
R461	1-214-741-00	METAL	3.3K	12	1/4A
R466	1-214-739-00	METAL	2.2K	12	1/4A
R466	1-214-873-00	CARBON	2.2K	50	1/2A
R499	1-244-981-00	CARBON	2.2K	50	1/2A
R501	1-244-865-00	CARBON	470	50	1/2A
R502	1-244-383-00	CARBON	470	50	1/2A
R508	1-244-869-00	CARBON	100	50	1/2A
R509	1-244-869-00	CARBON	100	50	1/2A
R510	1-244-857-00	CARBON	220	50	1/2A
R511	1-244-857-00	CARBON	10K	50	1/2A
R512	1-244-873-00	CARBON	1K	50	1/2A
R513	1-244-873-00	CARBON	1.0K	50	1/2A
R514	1-244-857-00	CARBON	220	50	1/2A
R515	1-244-857-00	CARBON	10K	50	1/2A
R515	1-244-873-00	CARBON	1K	50	1/2A
R517	1-244-879-00	CARBON	1.0K	50	1/2A
R604	1-244-881-00	CARBON	2.2K	50	1/2A
R605	1-212-849-00	FUSIBLE	2.7	50	1/4A F
R713	1-206-470-00	METAL	20	50	2A F
R718	1-212-855-00	FUSIBLE	8.2	50	1/4A F
R719	1-212-393-00	FUSIBLE	33	50	1/4A F
R815	1-244-866-00	CARBON	520	50	1/2A
R901	1-214-777-00	METAL	10K	12	1/4A
R915	1-214-950-00	METAL	560K	12	1/4A
R938	1-214-950-00	METAL	560K	12	1/4A
R931	1-214-743-00	METAL	3.3K	12	1/4A
R934	1-214-743-00	METAL	3.3K	12	1/4A
R950	1-217-376-00	FUSIBLE	2.2	50	1/4A F
R951	1-217-376-00	FUSIBLE	2.2	50	1/4A F
R959	1-214-954-00	METAL	1K	12	1/4A
R959	1-214-954-00	METAL	1M	12	1/4A
R9101	1-224-846-XX	RES, 10K, CARBON 10K			
R9201	1-224-846-XX	RES, 10K, CARBON 10K			
R9301	1-224-846-XX	RES, 10K, CARBON 10K			
R9507	1-226-836-00	RES, 10K, CARBON 10K			
R9401	1-224-846-XX	RES, 10K, CARBON 10K			
R9402	1-226-836-00	RES, 10K, CARBON 10K			

Notes:

Items with no part number and no description are not stocked because they are seldom required for routine service.

Items marked "A" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

Due to standardization, parts with part numbers (1-224-846-XX or 1-226-836-00) may be different from those used in the set.

Service Instructions

In each case, U = ohms, for example:
 10K = 10,000 ohms, 100K = 100,000 ohms, 1M = 1,000,000 ohms, 10M = 10,000,000 ohms, 100M = 100,000,000 ohms, 1G = 1,000,000,000 ohms.

Capacitors:

All capacitors are in pF. Common capacitors are omitted. Refer to the following lists for their part numbers.

Resistors

All resistors are in ohms. Common 1/4W, 1/2W and 1/5W carbon resistors are omitted. Refer to the following lists for their part numbers.

F = not available

Notes

VDR = varactor, U = ohms

The components identified by shading and mark "A" are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque "A" sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

2025

Ref'd to	Part No.	Description
44501	1-225-741-00	CRS, WPT, CR200R 20K/20K
44502	1-225-650-00	RCS, WPT, CR200R 5K
44503	1-225-980-00	RCS, WPT, CR200R 20K/20K
44504	1-225-231-30	RCS, ADJ, CR300R 1K
44505	1-225-661-00	RCS, ADJ, PLURAL GLASS 1K
5701	1-552-837-00	SA1 CR, CRY
5702	1-552-838-30	SA1 CR, CRY BOARD
5703	1-552-839-30	SA1 CR, CRY BOARD
5704	1-552-839-30	SA1 CR, CRY BOARD
5705	1-552-839-30	SA1 CR, CRY BOARD
5706	1-552-839-30	SA1 CR, CRY BOARD
5707	1-552-839-30	SA1 CR, CRY BOARD
5708	1-552-839-30	SA1 CR, CRY BOARD
5709	1-552-839-30	SA1 CR, CRY BOARD
5801	1-552-839-30	SA1 CR, CRY
5802	1-552-839-30	SA1 CR, CRY
5901	1-552-839-30	SA1 CR, CRY
5902	1-552-839-30	SA1 CR, CRY
5903	1-552-839-30	SA1 CR, CRY
5904	1-552-839-30	SA1 CR, CRY
5905	1-552-839-30	SA1 CR, CRY
5906	1-552-839-30	SA1 CR, CRY
5907	1-552-839-30	SA1 CR, CRY
5908	1-552-839-30	SA1 CR, CRY
5909	1-552-839-30	SA1 CR, CRY
5910	1-552-839-30	SA1 CR, CRY
5911	1-552-839-30	SA1 CR, CRY
5912	1-552-839-30	SA1 CR, CRY
5913	1-552-839-30	SA1 CR, CRY
5914	1-552-839-30	SA1 CR, CRY
5915	1-552-839-30	SA1 CR, CRY
5916	1-552-839-30	SA1 CR, CRY
5917	1-552-839-30	SA1 CR, CRY
5918	1-552-839-30	SA1 CR, CRY
5919	1-552-839-30	SA1 CR, CRY
5920	1-552-839-30	SA1 CR, CRY
5921	1-552-839-30	SA1 CR, CRY
5922	1-552-839-30	SA1 CR, CRY
5923	1-552-839-30	SA1 CR, CRY
5924	1-552-839-30	SA1 CR, CRY
5925	1-552-839-30	SA1 CR, CRY
5926	1-552-839-30	SA1 CR, CRY
5927	1-552-839-30	SA1 CR, CRY
5928	1-552-839-30	SA1 CR, CRY
5929	1-552-839-30	SA1 CR, CRY
5930	1-552-839-30	SA1 CR, CRY
5931	1-552-839-30	SA1 CR, CRY
5932	1-552-839-30	SA1 CR, CRY
5933	1-552-839-30	SA1 CR, CRY
5934	1-552-839-30	SA1 CR, CRY
5935	1-552-839-30	SA1 CR, CRY
5936	1-552-839-30	SA1 CR, CRY
5937	1-552-839-30	SA1 CR, CRY
5938	1-552-839-30	SA1 CR, CRY
5939	1-552-839-30	SA1 CR, CRY
5940	1-552-839-30	SA1 CR, CRY
5941	1-552-839-30	SA1 CR, CRY
5942	1-552-839-30	SA1 CR, CRY
5943	1-552-839-30	SA1 CR, CRY
5944	1-552-839-30	SA1 CR, CRY
5945	1-552-839-30	SA1 CR, CRY
5946	1-552-839-30	SA1 CR, CRY
5947	1-552-839-30	SA1 CR, CRY
5948	1-552-839-30	SA1 CR, CRY
5949	1-552-839-30	SA1 CR, CRY
5950	1-552-839-30	SA1 CR, CRY
5951	1-552-839-30	SA1 CR, CRY
5952	1-552-839-30	SA1 CR, CRY
5953	1-552-839-30	SA1 CR, CRY
5954	1-552-839-30	SA1 CR, CRY
5955	1-552-839-30	SA1 CR, CRY
5956	1-552-839-30	SA1 CR, CRY
5957	1-552-839-30	SA1 CR, CRY
5958	1-552-839-30	SA1 CR, CRY
5959	1-552-839-30	SA1 CR, CRY
5960	1-552-839-30	SA1 CR, CRY
5961	1-552-839-30	SA1 CR, CRY
5962	1-552-839-30	SA1 CR, CRY
5963	1-552-839-30	SA1 CR, CRY
5964	1-552-839-30	SA1 CR, CRY
5965	1-552-839-30	SA1 CR, CRY
5966	1-552-839-30	SA1 CR, CRY
5967	1-552-839-30	SA1 CR, CRY
5968	1-552-839-30	SA1 CR, CRY
5969	1-552-839-30	SA1 CR, CRY
5970	1-552-839-30	SA1 CR, CRY
5971	1-552-839-30	SA1 CR, CRY
5972	1-552-839-30	SA1 CR, CRY
5973	1-552-839-30	SA1 CR, CRY
5974	1-552-839-30	SA1 CR, CRY
5975	1-552-839-30	SA1 CR, CRY
5976	1-552-839-30	SA1 CR, CRY
5977	1-552-839-30	SA1 CR, CRY

But,

- Items with no part number and no description are not stocked here, as they are seldom required for routine service.
- Items marked "A" are not stocked, since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

Due to standardization, parts with part numbers 6-662-226-83 or 6-662-226-81 may be different from those used in the sub.

- MICROFILMS

$\lambda_1, \dots, \lambda_n, \mu_1, \dots, \mu_m, \nu_1, \dots, \nu_r$

CP-22:1165.

- All capacitors are in μF . Current capacitors are omitted. Refer to the following list for their part numbers.

FIELD STUDIES

All resistors are in ohms. 500K = 500,000. 1/4W, 1/8W and 1/20W carbon resistors are drilled. Refer to the following list for logic part numbers.

- 4 : nonfinishing

2015

- 4월 4일 - 1941년 2월 11일

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

Les composants identifiés par
un triangle et une marque △ sont
critiques pour la sécurité.
Ne pas remplacer ces par-
ties sans indiquer le numéro
spécifié.

ELECTROLYTIC CAPACITORS

CAP. (pF)	RATING					
	6.3 VOLT.	10 VOLT.	16 VOLT.	25 VOLT.	35 VOLT.	50 VOLT.
	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.47	→	→	→	→	→	I-121-726-02
1.0	→	→	→	→	→	I-121-351-07
2.2	→	→	→	→	→	I-121-950-05
3.3	→	→	→	I-121-292-02	→	I-121-351-05
4.7	→	→	→	I-121-293-02	→	I-121-351-05
10	→	→	I-121-294-02	I-121-294-02	→	I-121-294-02
20	→	→	I-121-477-02	I-121-480-02	I-121-482-02	I-121-485-02
30	→	→	I-121-489-02	I-121-494-02	I-121-492-02	I-121-492-02
47	→	I-121-352-02	I-121-499-02	I-121-499-02	I-121-499-02	I-121-499-02
100	→	I-121-499-02	I-121-499-02	I-121-499-02	I-121-499-02	I-121-499-02
150	I-121-499-02	I-121-499-02	I-121-499-02	I-121-499-02	I-121-499-02	I-121-499-02
220	I-121-499-02	I-121-499-02	I-121-499-02	I-121-499-02	I-121-499-02	I-121-499-02
330	I-121-499-02	I-121-499-02	I-121-499-02	I-121-499-02	I-121-499-02	I-121-499-02
470	I-121-499-02	I-121-499-02	I-121-499-02	I-121-499-02	I-121-499-02	I-121-499-02
1000	I-121-499-02	I-121-499-02	I-121-499-02	I-121-499-02	I-121-499-02	I-121-499-02
2200	I-121-499-02	I-121-499-02	I-121-499-02	I-121-499-02	I-121-499-02	I-121-499-02
4700	I-121-499-02	I-121-499-02	I-121-499-02	I-121-499-02	I-121-499-02	I-121-499-02

CAP. (pF)	100 VOLT.	160 VOLT.	250 VOLT.	350 VOLT.
	PART No.	PART No.	PART No.	PART No.
0.47	→	→	→	→
1.0	I-121-294-02	I-121-294-02	I-121-294-02	I-121-294-02
2.2	I-121-294-02	I-121-294-02	I-121-294-02	I-121-294-02
3.3	I-121-294-02	I-121-294-02	I-121-294-02	I-121-294-02
4.7	I-121-294-02	I-121-294-02	I-121-294-02	I-121-294-02
10	I-121-294-02	I-121-294-02	I-121-294-02	I-121-294-02
20	I-121-294-02	I-121-294-02	I-121-294-02	I-121-294-02
30	I-121-294-02	I-121-294-02	I-121-294-02	I-121-294-02
47	I-121-294-02	I-121-294-02	I-121-294-02	I-121-294-02
100	I-121-294-02	I-121-294-02	I-121-294-02	I-121-294-02

CERAMIC CAPACITORS

CAP. (pF)	RATING					
	50 VOLT.		50 VOLT.		50 VOLT.	
	PART No.	CAP. (pF)	PART No.	CAP. (pF)	PART No.	CAP. (pF)
10	I-121-294-02	10	I-121-294-02	10	I-121-294-02	10
20	I-121-294-02	20	I-121-294-02	20	I-121-294-02	20
30	I-121-294-02	30	I-121-294-02	30	I-121-294-02	30
47	I-121-294-02	47	I-121-294-02	47	I-121-294-02	47
100	I-121-294-02	100	I-121-294-02	100	I-121-294-02	100
220	I-121-294-02	220	I-121-294-02	220	I-121-294-02	220
330	I-121-294-02	330	I-121-294-02	330	I-121-294-02	330
470	I-121-294-02	470	I-121-294-02	470	I-121-294-02	470
1000	I-121-294-02	1000	I-121-294-02	1000	I-121-294-02	1000
2200	I-121-294-02	2200	I-121-294-02	2200	I-121-294-02	2200
4700	I-121-294-02	4700	I-121-294-02	4700	I-121-294-02	4700
10000	I-121-294-02	10000	I-121-294-02	10000	I-121-294-02	10000
22000	I-121-294-02	22000	I-121-294-02	22000	I-121-294-02	22000
47000	I-121-294-02	47000	I-121-294-02	47000	I-121-294-02	47000
100000	I-121-294-02	100000	I-121-294-02	100000	I-121-294-02	100000
220000	I-121-294-02	220000	I-121-294-02	220000	I-121-294-02	220000
470000	I-121-294-02	470000	I-121-294-02	470000	I-121-294-02	470000
1000000	I-121-294-02	1000000	I-121-294-02	1000000	I-121-294-02	1000000

100000 = 1,000,000

CERAMIC (SEMICONDUCTOR) CAPACITORS

CAP. (pF)	RATING				
	25 VOLT.	50 VOLT.	100 VOLT.	250 VOLT.	500 VOLT.
	PART No.	PART No.	PART No.	PART No.	PART No.
0.001	→	→	→	→	→
0.002	→	→	→	→	→
0.005	→	→	→	→	→
0.010	→	→	→	→	→
0.020	→	→	→	→	→
0.050	→	→	→	→	→
0.100	→	→	→	→	→
0.200	→	→	→	→	→
0.500	→	→	→	→	→
1.000	→	→	→	→	→
2.000	→	→	→	→	→
5.000	→	→	→	→	→
10.000	→	→	→	→	→
20.000	→	→	→	→	→
50.000	→	→	→	→	→
100.000	→	→	→	→	→
200.000	→	→	→	→	→
500.000	→	→	→	→	→
1000.000	→	→	→	→	→
2000.000	→	→	→	→	→
5000.000	→	→	→	→	→
10000.000	→	→	→	→	→
20000.000	→	→	→	→	→
50000.000	→	→	→	→	→
100000.000	→	→	→	→	→
200000.000	→	→	→	→	→
500000.000	→	→	→	→	→
1000000.000	→	→	→	→	→

MYLAR CAPACITORS

CAP. (μF)	RATING											
	50 VOLT.			CAP. (μF)	100 VOLT.			CAP. (μF)	200 VOLT.			CAP. (μF)
	PART No.	PART No.	PART No.		PART No.	PART No.	PART No.		PART No.	PART No.	PART No.	
0.01	I-126-227-02	I-126-227-02	I-126-227-02	0.01	I-126-227-02	I-126-227-02	I-126-227-02	0.01	I-126-227-02	I-126-227-02	I-126-227-02	0.01
0.012	I-126-227-02	I-126-227-02	I-126-227-02	0.012	I-126-227-02	I-126-227-02	I-126-227-02	0.012	I-126-227-02	I-126-227-02	I-126-227-02	0.012
0.015	I-126-227-02	I-126-227-02	I-126-227-02	0.015	I-126-227-02	I-126-227-02	I-126-227-02	0.015	I-126-227-02	I-126-227-02	I-126-227-02	0.015
0.018	I-126-227-02	I-126-227-02	I-126-227-02	0.018	I-126-227-02	I-126-227-02	I-126-227-02	0.018	I-126-227-02	I-126-227-02	I-126-227-02	0.018
0.022	I-126-227-02	I-126-227-02	I-126-227-02	0.022	I-126-227-02	I-126-227-02	I-126-227-02	0.022	I-126-227-02	I-126-227-02	I-126-227-02	0.022
0.027	I-126-227-02	I-126-227-02	I-126-227-02	0.027	I-126-227-02	I-126-227-02	I-126-227-02	0.027	I-126-227-02	I-126-227-02	I-126-227-02	0.027
0.033	I-126-227-02	I-126-227-02	I-126-227-02	0.033	I-126-227-02	I-126-227-02	I-126-227-02	0.033	I-126-227-02	I-126-227-02	I-126-227-02	0.033
0.039	I-126-227-02	I-126-227-02	I-126-227-02	0.039	I-126-227-02	I-126-227-02	I-126-227-02	0.039	I-126-227-02	I-126-227-02	I-126-227-02	0.039
0.047	I-126-227-02	I-126-227-02	I-126-227-02	0.047	I-126-227-02	I-126-227-02	I-126-227-02	0.047	I-126-227-02	I-126-227-02	I-126-227-02	0.047
0.056	I-126-227-02	I-126-227-02	I-126-227-02	0.056	I-126-227-02	I-126-227-02	I-126-227-02	0.056	I-126-227-02	I-126-227-02	I-126-227-02	0.056
0.068	I-126-227-02	I-126-227-02	I-126-227-02	0.068	I-126-227-02	I-126-227-02	I-126-227-02	0.068	I-126-227-02	I-126-227-02	I-126-227-02	0.068
0.082	I-126-227-02	I-126-227-02	I-126-227-02	0.082	I-126-227-02	I-126-227-02	I-126-227-02	0.082	I-126-227-02	I-126-227-02	I-126-227-02	0.082

TANTALUM CAPACITORS



RATING → Use the high voltage rating

CAP. (μF)	3.5 VOLT.	5.5 VOLT.	10 VOLT.	18 VOLT.	20 VOLT.	25 VOLT.	35 VOLT.
	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.01							I-131-227-02
0.012							I-131-227-02
0.015							I-131-227-02
0.018							I-131-227-02
0.022							I-131-227-02
0.027							I-131-227-02
0.033							I-131-227-02
0.039							I-131-227-02
0.047							I-131-227-02
0.056							I-131-227-02
0.068							I-131-227-02
0.082							I-131-227-02
0.1							I-131-227-02
0.12							I-131-227-02
0.15							I-131-227-02
0.18							I-131-227-02
0.22							I-131-227-02
0.27							I-131-227-02
0.33							I-131-227-02
0.39							I-131-227-02
0.47							I-131-227-02
0.56							I-131-227-02
0.68							I-131-227-02
0.82							I-131-227-02
1.0							I-131-227-02
1.2							I-131-227-02
1.5							I-131-227-02
1.8							I-131-227-02
2.2							I-131-227-02
2.7							I-131-227-02
3.3							I-131-227-02
3.9							I-131-227-02
4.7							I-131-227-02
5.6							I-131-227-02
6.8							I-131-227-02
8.2							I-131-227-02
10							I-131-227-02
12							I-131-227-02
15							I-131-227-02
18							I-131-227-02
22							I-131-227-02
27							I-131-227-02
33							I-131-227-02
39							I-131-227-02
47							I-131-227-02
56							I-131-227-02
68							I-131-227-02
82							I-131-227-02
100							I-131-227-02

TANTALUM CAPACITORS



CAP. (μF)	RATING					
	2 VOLT.		5.5 VOLT.		10 VOLT.	
	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.033						I-131-227-02
0.047						I-131-227-02
0.056						I-131-227-02
0.1						I-131-227-02
0.15						I-131-227-02
0.22						I-131-227-02
0.33						I-131-227-02
0.47						I-131-227-02
0.68						I-131-227-02
1.0						I-131-227-02
1.2						I-131-227-02
1.5						I-131-227-02
1.8						I-131-227-02
2.2						I-131-227-02
2.7						I-131-227-02
3.3						I-131-227-02
3.9						I-131-227-02
4.7						I-131-227-02
5.6						I-131-227-02
6.8						I-131-227-02
8.2						I-131-227-02
10						I-131-227-02
12						I-131-227-02
15						I-131-227-02
18						I-131-227-02
22						I-131-227-02
27						I-131-227-02
33						I-131-227-02
39						I-131-227-02
47						I-131-227-02
56						I-131-227-02
68						I-131-227-02
82						I-131-227-02
100						I-131-227-02

1/4 WATT CARBON RESISTORS

Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.
1.0	1-246-401-00	10	1-246-435-00	100	1-246-445-00	1.3k	1-246-473-00	12k	1-246-497-00	120k	1-246-531-00	1.0M	1-246-543-00
1.1	1-246-402-00	11	1-246-436-00	110	1-246-446-00	1.4k	1-246-474-00	14k	1-246-498-00	140k	1-246-532-00	1.1M	1-246-544-00
1.2	1-246-403-00	12	1-246-437-00	120	1-246-447-00	1.5k	1-246-475-00	15k	1-246-499-00	150k	1-246-533-00	1.2M	1-246-545-00
1.3	1-246-404-00	13	1-246-438-00	130	1-246-448-00	1.6k	1-246-476-00	16k	1-246-500-00	160k	1-246-534-00	1.3M	1-246-546-00
1.5	1-246-405-00	15	1-246-439-00	150	1-246-449-00	1.7k	1-246-477-00	17k	1-246-501-00	170k	1-246-535-00	1.5M	1-246-547-00
1.6	1-246-406-00	16	1-246-440-00	160	1-246-450-00	1.8k	1-246-478-00	18k	1-246-502-00	180k	1-246-536-00	1.6M	1-246-548-00
1.8	1-246-407-00	18	1-246-441-00	180	1-246-451-00	1.9k	1-246-479-00	19k	1-246-503-00	190k	1-246-537-00	1.8M	1-246-549-00
2.0	1-246-408-00	20	1-246-442-00	200	1-246-452-00	2.0k	1-246-480-00	20k	1-246-504-00	200k	1-246-538-00	2.0M	1-246-550-00
2.2	1-246-409-00	22	1-246-443-00	220	1-246-453-00	2.2k	1-246-481-00	22k	1-246-505-00	220k	1-246-539-00	2.2M	1-246-551-00
2.4	1-246-410-00	24	1-246-444-00	240	1-246-454-00	2.4k	1-246-482-00	24k	1-246-506-00	240k	1-246-540-00	2.4M	1-246-552-00
2.7	1-246-411-00	27	1-246-445-00	270	1-246-455-00	2.7k	1-246-483-00	27k	1-246-507-00	270k	1-246-541-00	2.7M	1-246-553-00
3.0	1-246-412-00	30	1-246-446-00	300	1-246-456-00	3.0k	1-246-484-00	30k	1-246-508-00	300k	1-246-542-00	3.0M	1-246-554-00
3.3	1-246-413-00	33	1-246-447-00	330	1-246-457-00	3.3k	1-246-485-00	33k	1-246-509-00	330k	1-246-543-00	3.3M	1-246-555-00
3.6	1-246-414-00	36	1-246-448-00	360	1-246-458-00	3.6k	1-246-486-00	36k	1-246-510-00	360k	1-246-544-00	3.6M	1-246-556-00
3.9	1-246-415-00	39	1-246-449-00	390	1-246-459-00	3.9k	1-246-487-00	39k	1-246-511-00	390k	1-246-545-00	3.9M	1-246-557-00
4.3	1-246-416-00	43	1-246-450-00	430	1-246-460-00	4.3k	1-246-488-00	43k	1-246-512-00	430k	1-246-546-00	4.3M	1-246-558-00
4.7	1-246-417-00	47	1-246-451-00	470	1-246-461-00	4.7k	1-246-489-00	47k	1-246-513-00	470k	1-246-547-00	4.7M	1-246-559-00
5.1	1-246-418-00	51	1-246-452-00	510	1-246-462-00	5.1k	1-246-490-00	51k	1-246-514-00	510k	1-246-548-00	5.1M	1-246-560-00
5.6	1-246-419-00	56	1-246-453-00	560	1-246-463-00	5.6k	1-246-491-00	56k	1-246-515-00	560k	1-246-549-00	5.6M	1-246-561-00
6.2	1-246-420-00	62	1-246-454-00	620	1-246-464-00	6.2k	1-246-492-00	62k	1-246-516-00	620k	1-246-550-00	6.2M	1-246-562-00
6.8	1-246-421-00	68	1-246-455-00	680	1-246-465-00	6.8k	1-246-493-00	68k	1-246-517-00	680k	1-246-551-00	6.8M	1-246-563-00
7.5	1-246-422-00	75	1-246-456-00	750	1-246-466-00	7.5k	1-246-494-00	75k	1-246-518-00	750k	1-246-552-00	7.5M	1-246-564-00
8.2	1-246-423-00	82	1-246-457-00	820	1-246-467-00	8.2k	1-246-495-00	82k	1-246-519-00	820k	1-246-553-00	8.2M	1-246-565-00
9.1	1-246-424-00	91	1-246-458-00	910	1-246-468-00	9.1k	1-246-496-00	91k	1-246-520-00	910k	1-246-554-00	9.1M	1-246-566-00

HARDWARE NOMENCLATURE

Screw

P 3 x 10

Length in mm

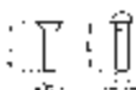
D Diameter in mm

Type of head

Indicated with head only

Unless otherwise indicated, it means

CRS (CRS) head (Rings type).



Nut Washer Retaining ring

N 3

Diameter of shaft screw or nut

Reference designation

Reference Designation	Shape	Description	Remarks
SCREWS			
P		pan-head screw	binding head (B) screw for replacement
PAH		pan-head screw with washer	binding head (B) screw and flat washer for replacement
PS		pan-head screw with spring washer	binding head (B) screw and spring washer for replacement
PSH		pan-head screw with lock washer	binding head (B) screw and lock washer for replacement
P		round-head screw	binding head (B) screw for replacement
K		hex-head screw	
KK		hex-head screw with washer	
B		binding-head screw	
I		joint-head screw	binding head (B) screw for replacement
F		flat-head screw	
FF		flat-head screw with washer	
SV		hex-head screw	

Reference Designation	Shape	Description	Remarks
SELF-TAPPING SCREWS			
TA		self-tapping screw	TA 3 x 10
PTP		self-tapping screw	binding head (B) screw for replacement
PTPsp		self-tapping screw with spring washer	binding head (B) screw and spring washer for replacement
PTPw		self-tapping screw with lock washer	binding head (B) screw and lock washer for replacement
SET SCREWS			
SC		set screw	
SC		set screw	SC 3 x 10, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100
NUTS			
N		nut	
WASHERS			
W		flat washer	
SW		spring washer	
LN		locking tooth lock washer	LN 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100
LV		locking tooth lock washer	LV 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100
RETAINING RINGS			
E		retaining ring	
G		retaining ring	

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Consumer Products Group
Technical Support Dept.

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tape deck

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CONSUMER SERVICE COMPANY
Technical Department

Model: TC-K777/K555/K555ES/K81/K71

Subject: Head Wiring

Date: October 14, 1983

Please refer to the illustration below when soldering leads to the tape head terminal board (RPS202-3602A/B, RPS230-3602). Note the change of the PC board pattern.

