

TA-A57/D509

SERVICE MANUAL

AEP Model

UK Model

TA-D509

E Model

Australian Model

TA-A57



This set is the Amplifier section in I RT-A57CD/A57CDM/D509CD/D559CD.

This photo is TA-D509

SPECIFICATIONS

TA-A57

Continuous RMS power output

60 W + 60 W
(8 ohms, at 1 kHz, 5% THD)

Peak music power output

150 W (4 speakers driven)

Input	Jack type	Sensitivity	Impedance
VIDEO	Phono	200 mV	47 kohms
PHONO (MM)	Phono	3.5 mV	47 kohms
MIC	Phono	1 mV	10 kohms

Audio output	Jack type	Voltage	Impedance
SURROUND SPEAKER	Phono	Accepts speakers of 16 ohms	
HEADPHONES	Stearaphone	Accepts headphones of 8 ohms or more	

Frequency response

15 Hz to 20 kHz, ± 3 dB

Power requirements

TYPE I

120V/230V/240V AC, adjustable with the voltage selector, 50/60 Hz

TYPE II

120V/230V/240V AC, adjustable with the voltage selector, 50/60 Hz

160 W

Power consumption

Weight

Approx. 5.5 kg (12 lbs to 15 lbs)

Dimensions

Approx. 325 x 133 x 230 mm
(14 x 5 1/4 x 12 1/4 inches)
(width including protrusions)

Design and specifications are subject to change without notice.

TA-D509

Continuous RMS power output

60 W + 60 W
(8 ohms, at 1 kHz, 5% THD)
50 W + 50 W (8 ohms D.M.P. mode)
80 W + 80 W
(8 ohms, at 1 kHz, 10% THD)

Music power output

Input	Jack type	Sensitivity	Impedance
VIDEO	Phono	200 mV	47 kohms
PHONO (MM)	Phono	3.5 mV	47 kohms

Audio output	Jack type	Voltage	Impedance
SURROUND SPEAKER	Phono	Accepts speakers of 16 ohms	
HEADPHONES	Stearaphone	Accepts headphones of 8 ohms or more	

Frequency response

15 Hz to 20 kHz, ± 3 dB

Power requirements

220—230V AC, 60/50 Hz
(AEP, G, IT, ES model)

240V AC, 50/60 Hz (UK model)
150 W

Power consumption

Weight

Approx. 5.5 kg (12 lbs to 15 lbs)

Dimensions

Approx. 325 x 133 x 230 mm
(14 x 5 1/4 x 12 1/4 inches)
(width, including protrusions)

Design and specifications are subject to change without notice.

*A stereo system

G : German model

IT : Italian model

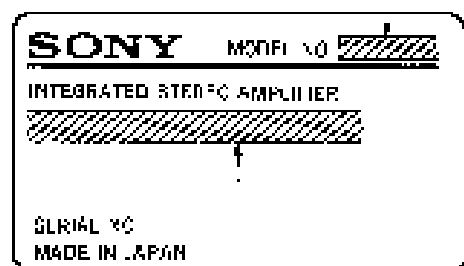
EF : East European model

INTEGRATED STEREO AMPLIFIER
SONY®

MODEL IDENTIFICATION

—Specification Label

E, EA, AUS, MY, SP model: TA-A37
AEP, L4, G, IT, EE model: TA-D529



AFP, T, LL model: AC: 220V~230V~50/60Hz 150W

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

G model : SYSTEM DT-D509

AC: 220V~230V~50/60Hz 150W

E, EA, AUS model : AC: 120V/220V/240V~50/60Hz 100W

MY, SP model : AC: 120V/220V/230V 240V~50/60Hz 150W

*Abbreviations

- LA : Saudi Arabia model
- AUS : Australian model
- MY : Malaysia model
- SP : Singapore model
- G : German model
- IT : Italian model
- EE : East European model

SAFETY-RELATED COMPONENT WARNING!!

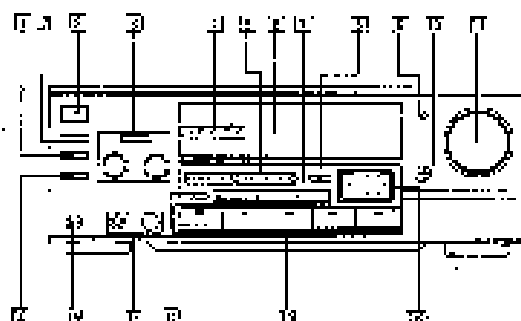
COMPONENTS IDENTIFIED BY MARK OR DOTTED LINE WITH MARK ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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SECTION 1 GENERAL

1-1. LOCATION OF CONTROLS



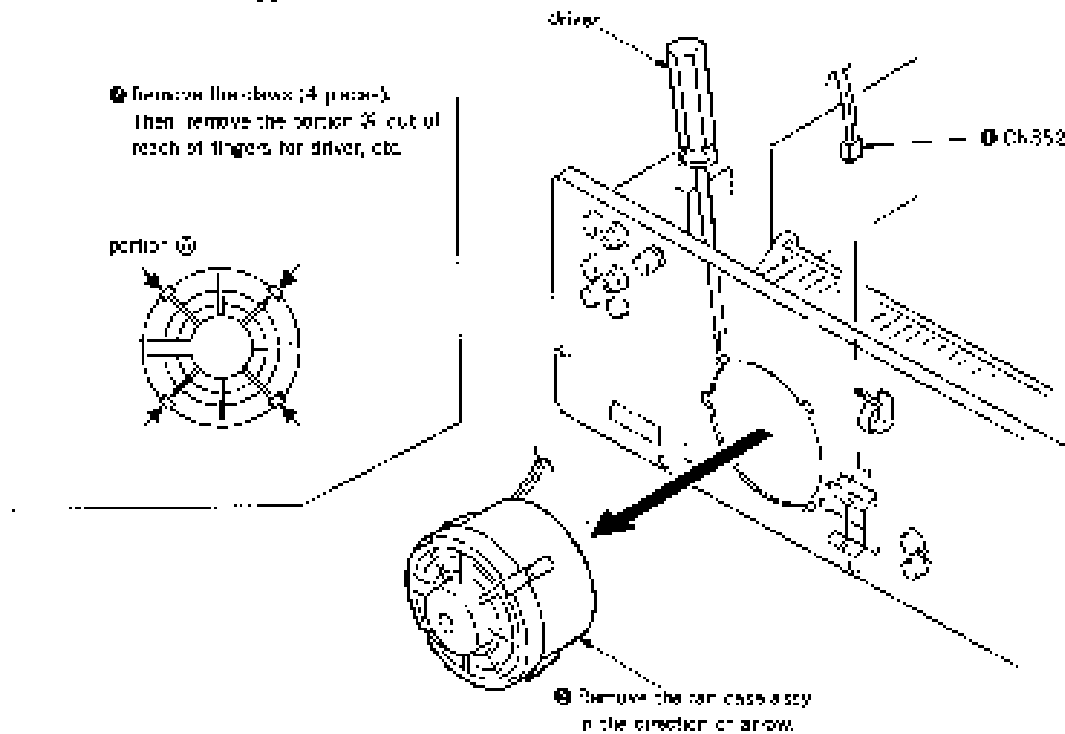
- 1 EFFECT button and indicator
- 2 POWER switch
- 3 DYNAMIC BASS SYSTEM control (DBS)
- 4 CH. PRESELECT button
- 5 SELECT SP-RESONANCE button (resonance)
- 6 SURROUND controls (MODE, LEFT, and RIGHT)
- 7 Master Volume
- 8 CHORUS MODE button (CHORUS)
- 9 SELECT 5 PRESET, FILE and (and LOCK)
- 10 MEMORY button (auto select)
- 11 REPEAT button
- 12 BALANCE control
- 13 TUNING control
- 14 TUNING CONTROL knob (The station with arrow and indicator)
- 15 PRESET button
- 16 PRESET button (auto)
- 17 FUNCTION button and indicator
- 18 KARAOKE button (auto select) (TA-A37 only)
- 19 MIC (microphone) jack and MIC button (TA-A37 only)

This section is extracted from instruction manual.

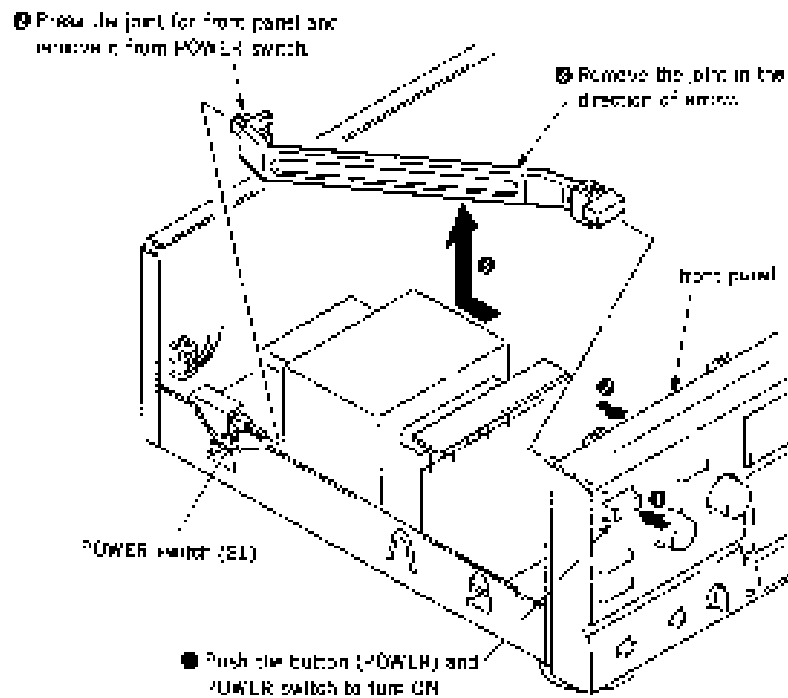
SECTION 2 SERVICE NOTES

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

2-1. REMOVAL OF FAN CASE (TA-D509 : UK model only)

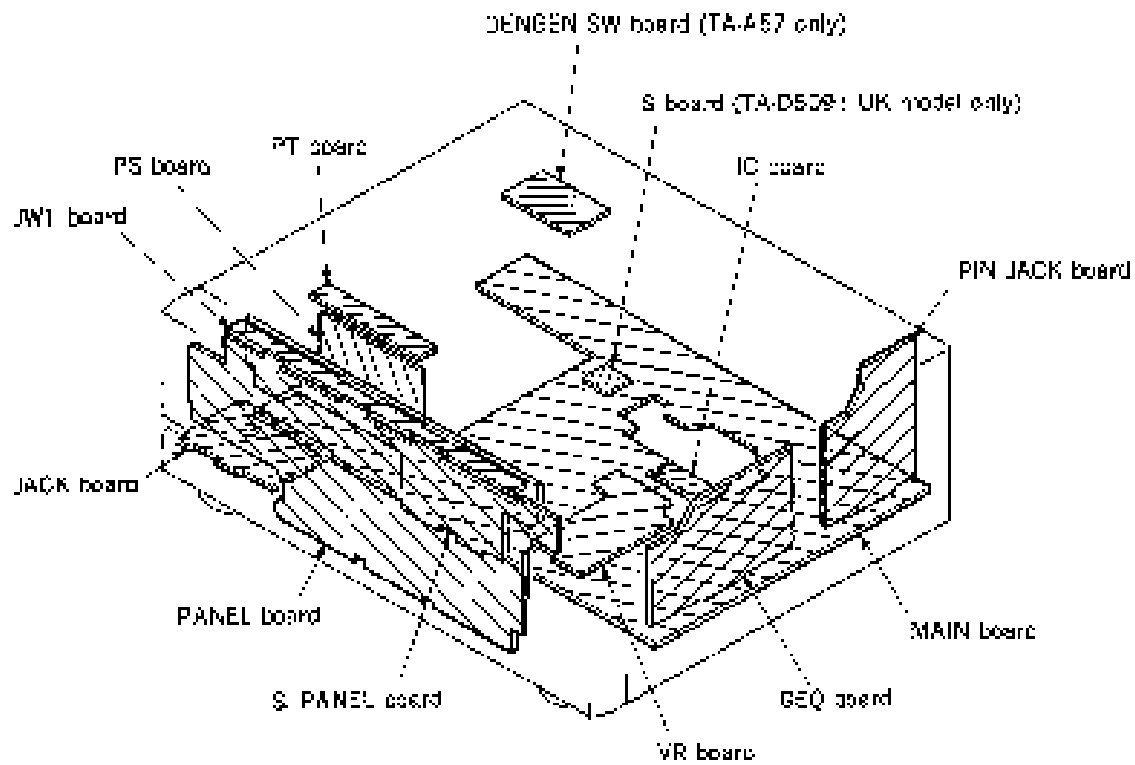


2-2. REMOVAL OF JOINT



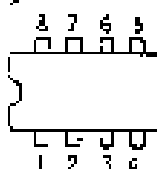
SECTION 3 DIAGRAMS

3-1. CIRCUIT BOARDS LOCATION



3-2. SEMICONDUCTOR LEAD LAYOUTS

LB1439
M5216AP
μPC393C



(TOP VIEW)
LC7522K



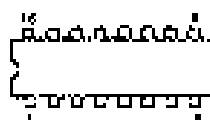
(TOP VIEW)

LM38DZ



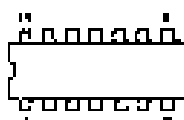
(TOP VIEW)

MC14052BCP
TC4094BP
XR10910CP



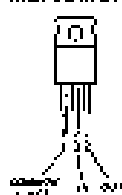
(TOP VIEW)

MC14056BCP



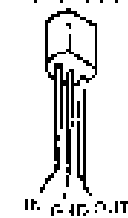
(TOP VIEW)

M5F73M07



(TOP VIEW)

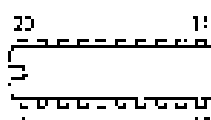
M5194385L



M5218AL
M5218AL-22
μPC1237HA

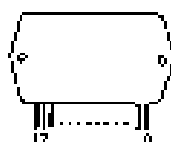


M5289P



(TOP VIEW)

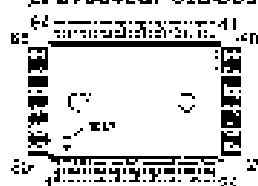
5TK403-Q50
5TK401-Q50



TA78075



μPD78042GF-01B-389



(TOP VIEW)

DTA114ES
DTC114ES
DTC124ES
25C2603-EF
25C3822A-LK



DTA124ES



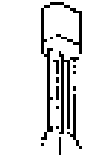
25B753-34



25B1094-LK



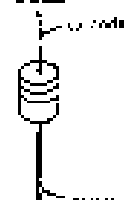
25C1841-PAFABA



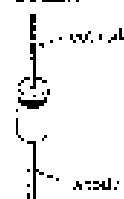
25K245-GR



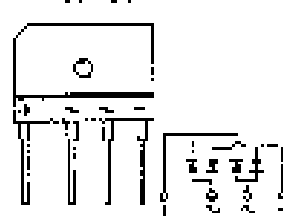
HZ330-2L
HZ67C2L
UZ-4.7B5A
UZL-6L3
UZL-6M2
UZL-7L3
11E2



UZP-5.2B
1N4148M
1S1585
10E2N



RBV-502-Q1



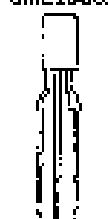
SEL22105



SEL32105-CD



SML1800A

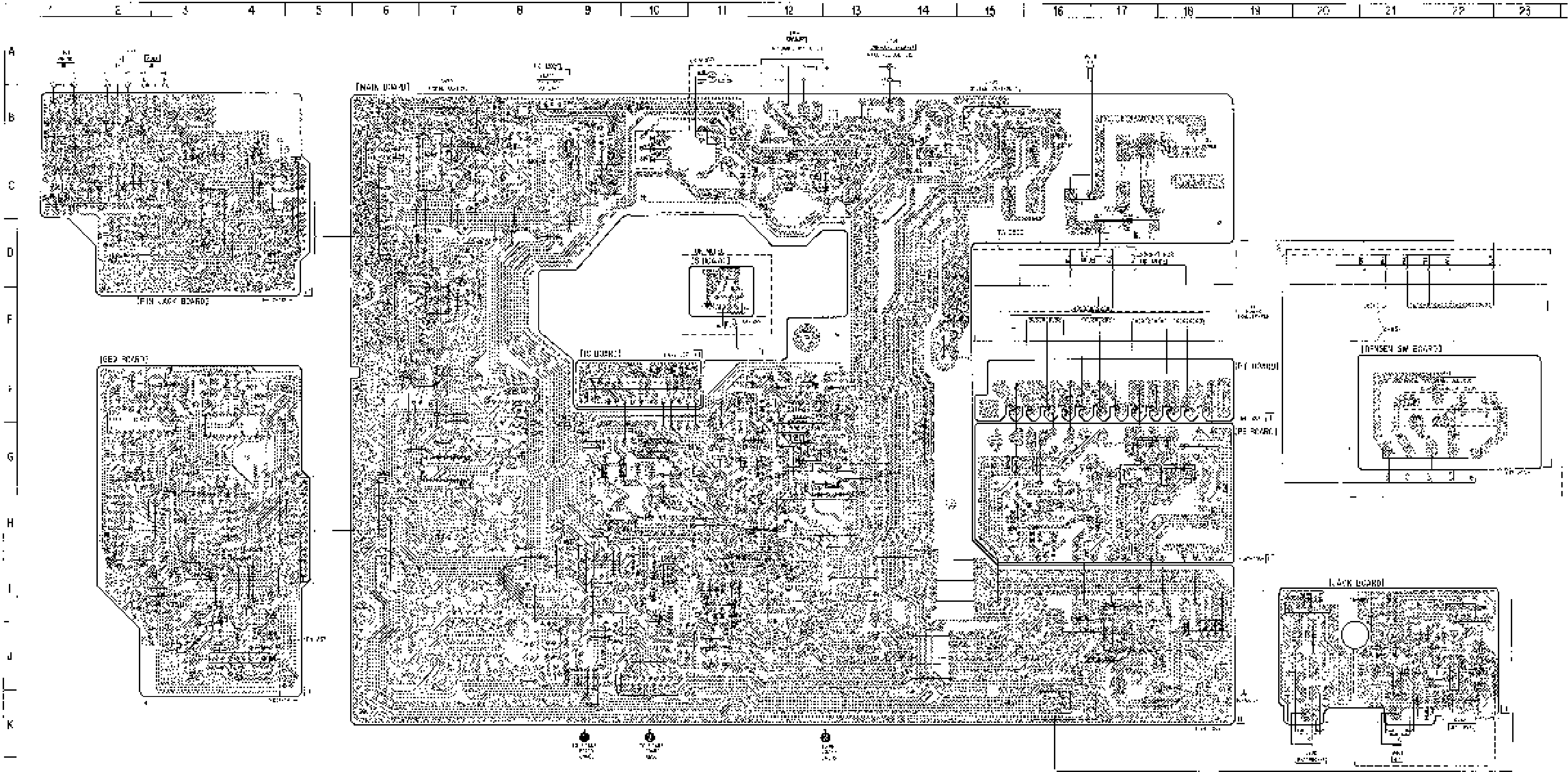


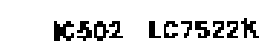
• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D501	F-3	Q301	G-7
D502	F-3	Q302	G-7
D701	F-12	Q401	G-7
D702	F-12	Q402	B-9
D703	H-13	Q421	J-22
D704	H-12	Q501	F-2
D705	F-11	Q502	H-3
D801	G-17	Q503	L-4
D802	H-11	Q531	G-4
D803	H-11	Q701	F-10
D804	H-11	Q702	G-12
D805	H-11	Q801	H-10
D806	H-16	Q802	L-12
D807	H-15	Q851	G-12
D808	H-15	Q852	G-11
D809	H-15		
D811	H-16	Q250	J-4
D812	H-16	Q251	J-8
D813	H-16	Q252	J-9
D814	J-10	Q301	F-8
D821	G-18	Q302	F-6
D822	J-17	Q303	G-8
D823	K-17	Q304	G-8
D830	G-10	Q304	L-3
D831	H-10	Q310	L-4
D832	B-10	Q554	L-3
D851	G-12	Q701	F-12
D852	G-11	Q702	F-12
		Q751	F-11
IC101	G-2	Q801	L-7
IC102	G-3	Q851	G-11
IC250	F-8		

- Notes:
- — : Points extracted from the component side.
 - ZZZ : Pattern on the side which is seen.
 - Active elements:
 - B : German model
 - IT : Italian model

3-3. PRINTED WIRING BOARDS—MAIN SECTION • Refer to page 5 for Semiconductor Lead Layouts.



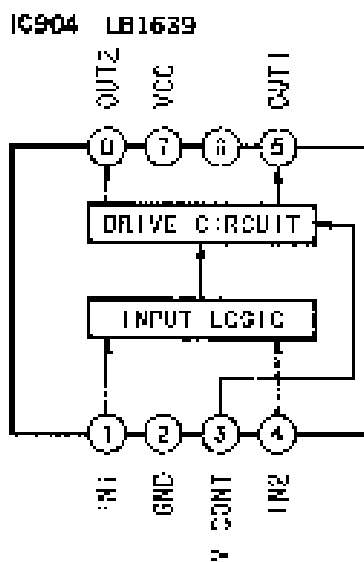
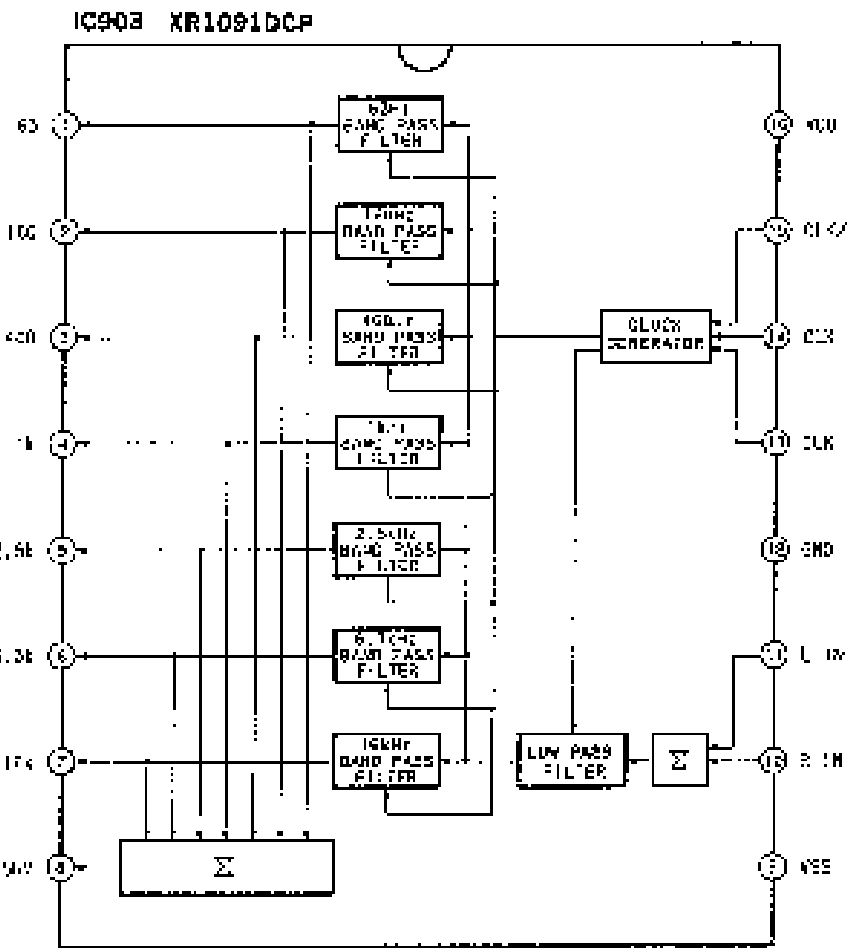


- Note:** The components identified by mark or dotted line each mark are critical for safety. Replace only with part number specified.

- **V_{CC}** : B+ Line
- **V_{EE}** : B- Line
- Voltage is dc with respect to ground, under no signal conditions.
eg: mob : PHONE
- Voltages are taken with a VOM (Vpp) and a 10MSV Voltage variations may be noted due to normal production tolerances.
- 5 pin. DCH.

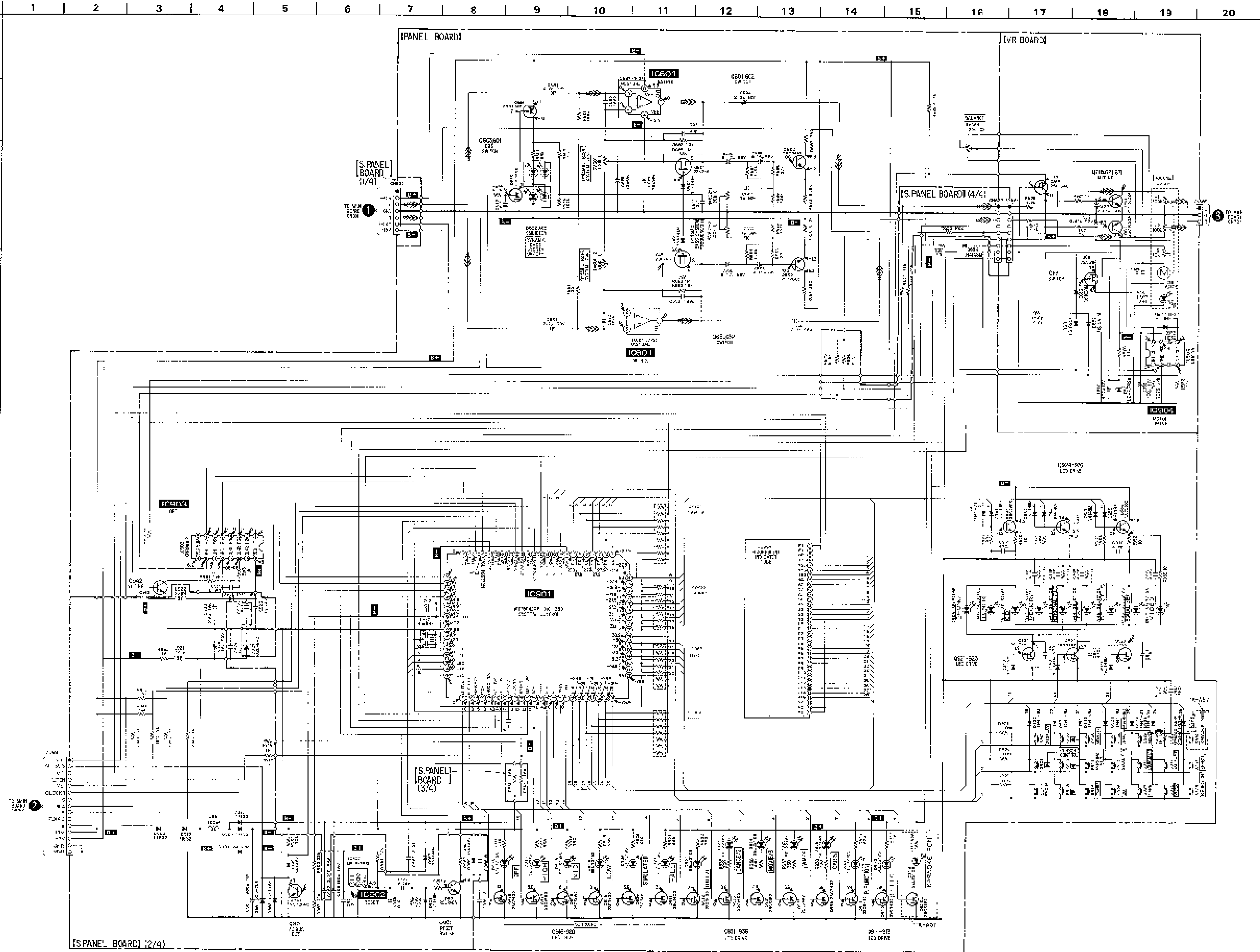
- Abhishiktors
 G : German model
 IT : Italian model

• IC Block Diagrams

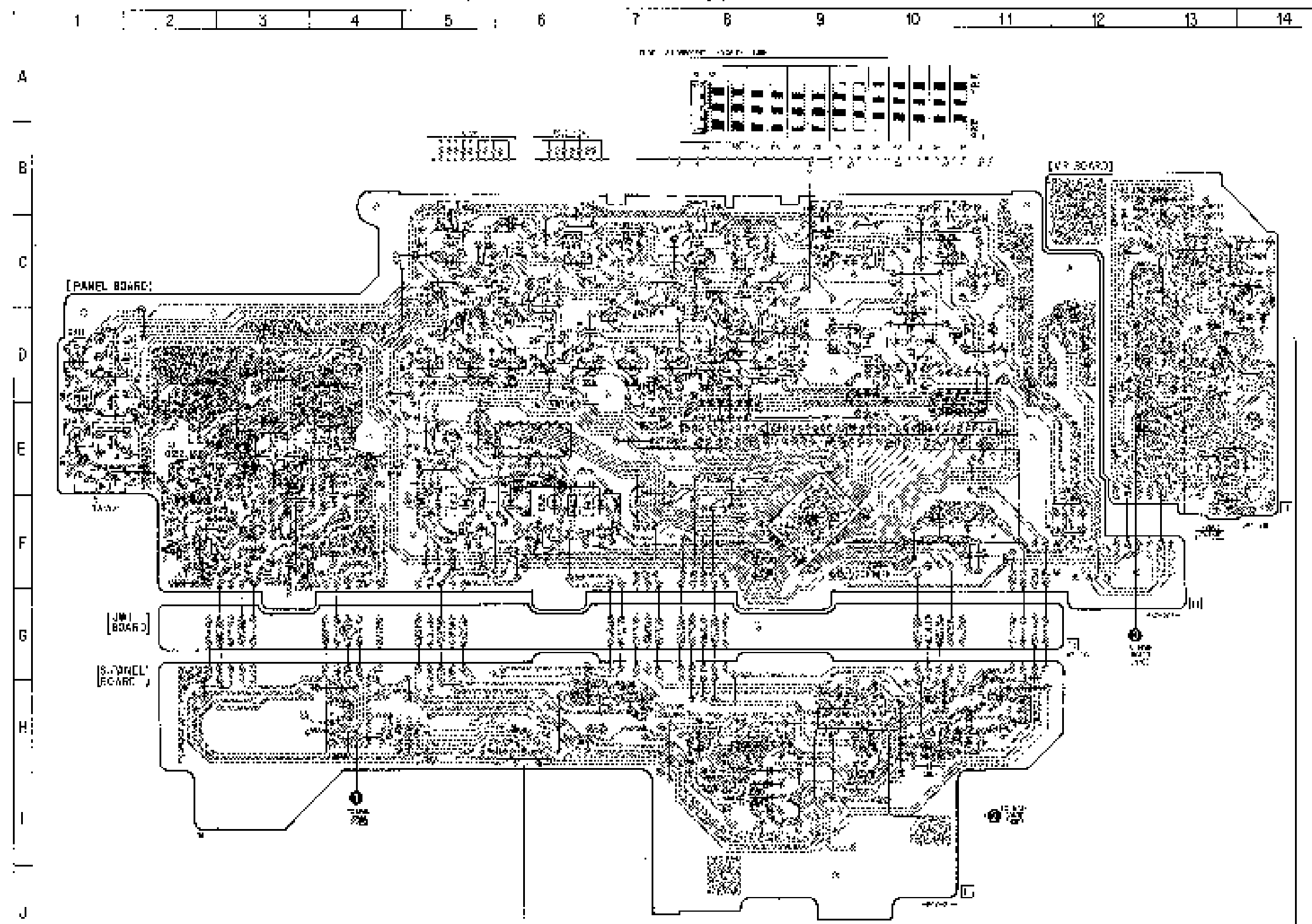


- All components are in μ unless otherwise noted. PCBs are 1.6mm FR4 unless otherwise noted except for electroplating and electroless.
- All capacitors are in pF and μ unless otherwise specified.
- $\frac{\Delta}{\Delta}$: Differential components.
- $\frac{\Delta}{\Delta}$: C0I Line
- $\frac{\Delta}{\Delta}$: E0- Line
- Voltage $\pm 3\%$ with respect to ground under no-load conditions.
- No track, $\frac{\Delta}{\Delta}$: PHONO
- Voltages are taken with a 10M Ω input impedance. 10M Ω voltage variations may be caused due to normal production tolerances.
- Signal path
 : PHONO

3-5. SCHEMATIC DIAGRAM PANEL SECTION



3-6. PRINTED WIRING BOARDS—PANEL SECTION— • Refer to page 5 for Semiconductor Lead Layouts.



• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D501	F-2	D950	D-8
D502	F-3	D951	D-8
D603	E-3	D952	D-8
D651	F-3	D953	D-8
D681	C-13	D954	D-8
D682	B-13	D955	D-8
D683	C-12	D971	C-14
D684	F-10	D972	D-14
D901	H-6	D973	D-14
D902	H-6	D980	F-8
D903	I-8	D904	H-11
D904	H-8	D905	H-8
D905	H-8	D906	F-11
D907	F-11	D908	H-11
D909	H-10	D909	H-10
D910	I-8	D910	I-8
D911	D-1	D911	D-1
D912	E-1	D912	E-1
D913	E-1	D913	E-1
D916	D-6	D916	D-6
D917	D-7	D917	D-7
D918	D-7	D918	D-7
D919	D-6	D919	D-6
D920	D-5	D920	D-5
D921	D-5	D921	D-5
D922	F-5	D922	F-5
D923	F-5	D923	F-5
D924	F-6	D924	F-6
D925	F-6	D925	F-6
D926	F-7	D926	F-7
D929	F-7	D929	F-7
D929	F-6	D929	F-6
D930	D-9	D930	D-9
D931	D-9	D931	D-9
D932	D-10	D932	D-10
D933	D-10	D933	D-10
D934	D-10	D934	D-10
D935	D-10	D935	D-10
D936	D-10	D936	D-10
D938	D-11	D938	D-11
D939	C-10	D939	C-10
D940	C-9	D940	C-9
D941	C-8	D941	C-8
D942	C-8	D942	C-8
D943	C-8	D943	C-8
D944	C-6	D944	C-6
D945	C-7	D945	C-7
D946	C-8	D946	C-8
D947	C-5	D947	C-5
D948	C-11	D948	C-11

Notes:

- — : Points extracted from the component side.
- * * * : Pattern on the non-selective side.

SECTION 4

EXPLODED VIEWS

H.T.

- The following parts with no reference number in the exploded view are not supplied.
- Items number 14 and 15, marked with a star are sold as required for the service. Some entry should be anticipated when ordering these items.

- -XX and -X may disappear each, so they may have no difference from the original one.

- Color Indication of appearance Part 1
Example :

PRO. 2450C 010721 (400)

Part: 1000 1000
 Part: 1000 1000

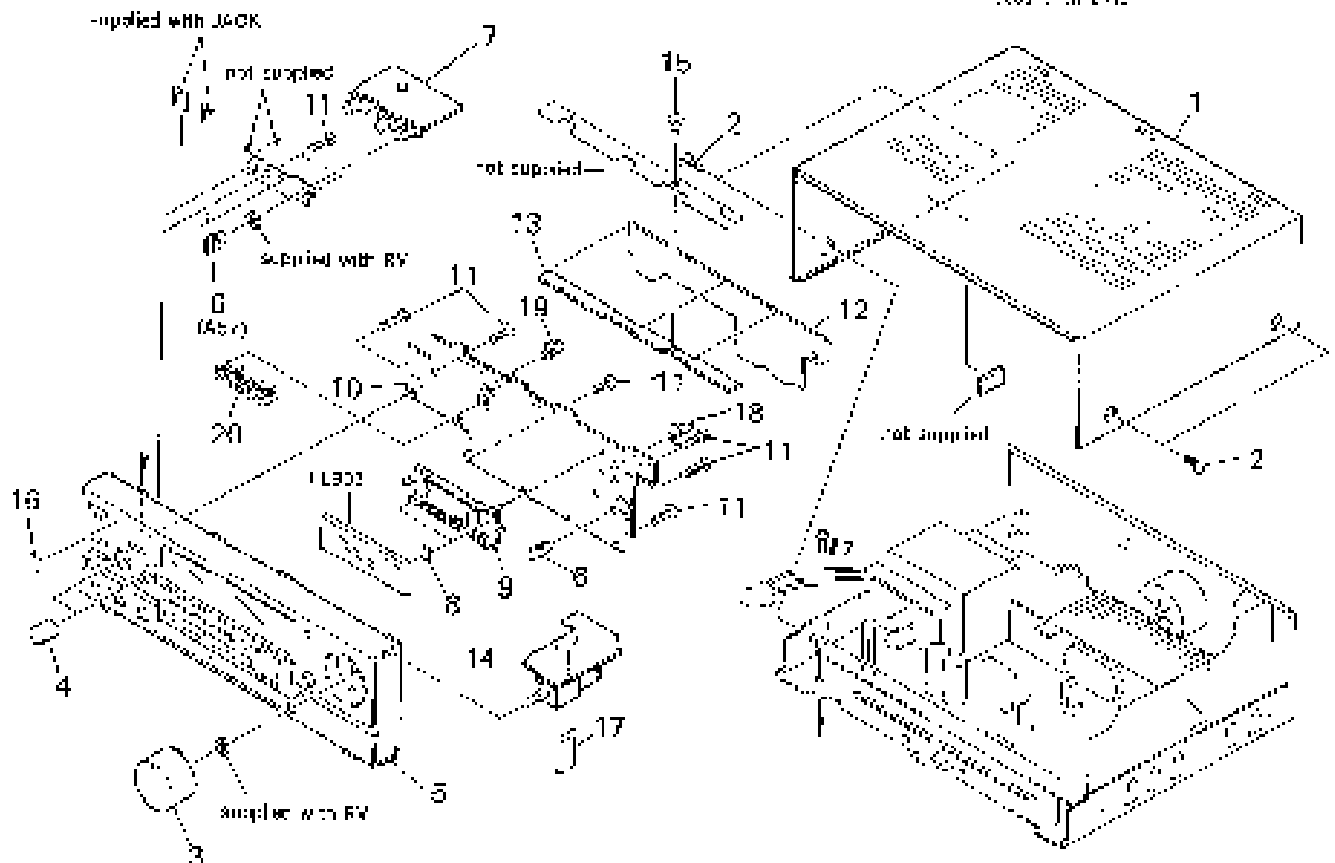
- Indirect Demand List is given in the last of this paper that

be in pounds. Identified by
the green dotted line with work
to be related to safety,
appears on 2 with not under
specified.

- **Generalize**

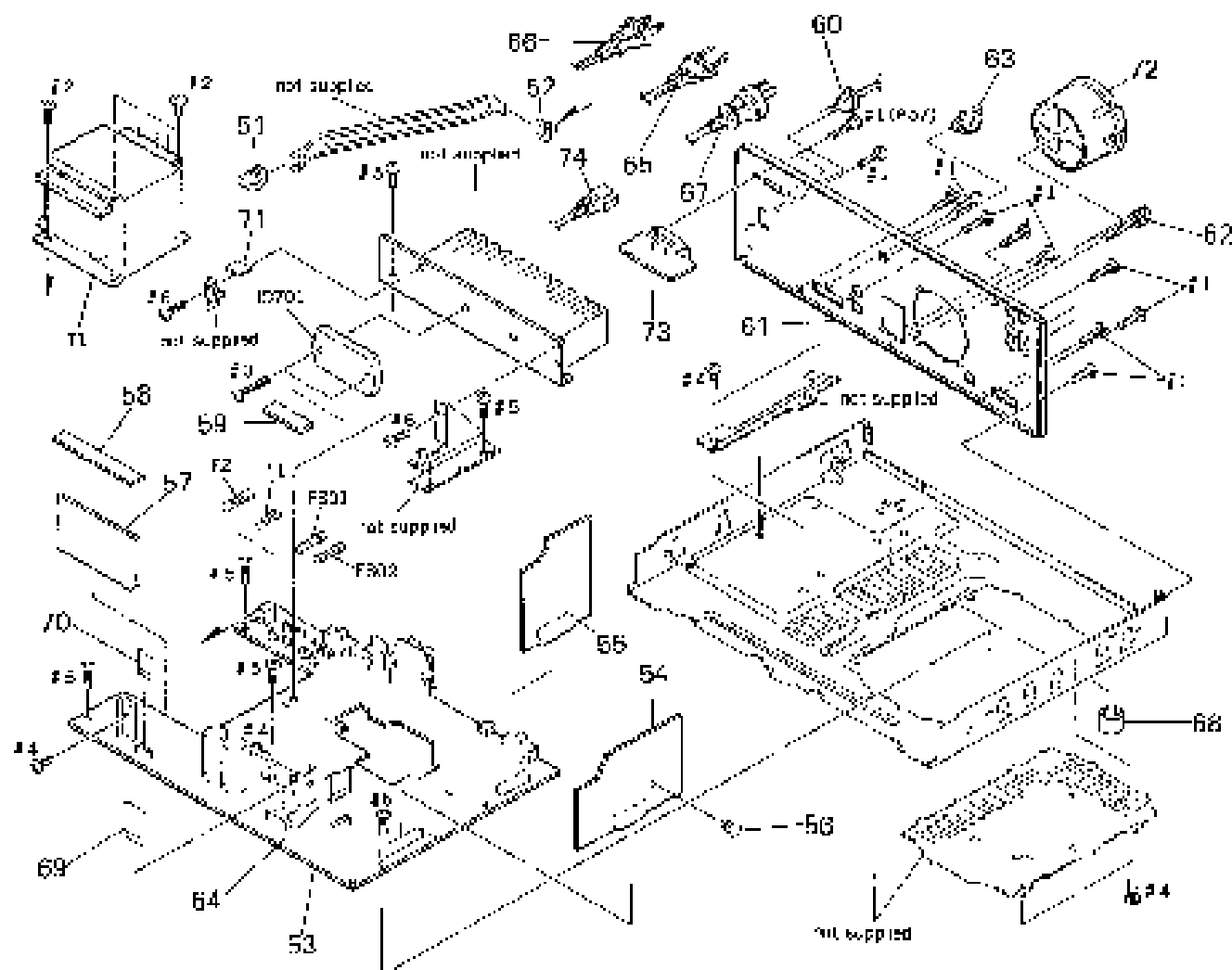
- 2 : German model
 IT : Italian model
 NE : East European model
 AU : Australian model
 EA : South Arabian model
 M : Malaysia model
 SP : Singapore model
 AS : AS
 1503 : 75-1512

4-1. FRONT PANEL SECTION

[illegible]

be components listed in the parts list or located in the work order. Δ are critical for safety. Replace only with part number verified.

4-2. CHASSIS SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	4-142-001-1	POWER SUPPLY		62	1 607 012 01	SCREW, RECESSED, FIXED	
2	4-142-002-1	POWER SUPPLY		63	1 607 012 01	SCREW, RECESSED, FIXED	
3	4-142-003-1	POWER SUPPLY		64	1 607 012 01	SCREW, RECESSED, FIXED	
4	4-142-004-1	POWER SUPPLY		65	1 607 012 01	SCREW, RECESSED, FIXED	
5	4-142-005-1	POWER SUPPLY		66	1 607 012 01	SCREW, RECESSED, FIXED	
6	4-142-006-1	POWER SUPPLY		67	1 607 012 01	SCREW, RECESSED, FIXED	
7	4-142-007-1	POWER SUPPLY		68	1 607 012 01	SCREW, RECESSED, FIXED	
8	4-142-008-1	POWER SUPPLY		69	1 607 012 01	SCREW, RECESSED, FIXED	
9	4-142-009-1	POWER SUPPLY		70	1 607 012 01	SCREW, RECESSED, FIXED	
10	4-142-010-1	POWER SUPPLY		71	1 607 012 01	SCREW, RECESSED, FIXED	
11	4-142-011-1	POWER SUPPLY		72	1 607 012 01	SCREW, RECESSED, FIXED	
12	4-142-012-1	POWER SUPPLY		73	1 607 012 01	SCREW, RECESSED, FIXED	
13	4-142-013-1	POWER SUPPLY		74	1 607 012 01	SCREW, RECESSED, FIXED	
14	4-142-014-1	POWER SUPPLY		75	1 607 012 01	SCREW, RECESSED, FIXED	
15	4-142-015-1	POWER SUPPLY		76	1 607 012 01	SCREW, RECESSED, FIXED	
16	4-142-016-1	POWER SUPPLY		77	1 607 012 01	SCREW, RECESSED, FIXED	
17	4-142-017-1	POWER SUPPLY		78	1 607 012 01	SCREW, RECESSED, FIXED	
18	4-142-018-1	POWER SUPPLY		79	1 607 012 01	SCREW, RECESSED, FIXED	
19	4-142-019-1	POWER SUPPLY		80	1 607 012 01	SCREW, RECESSED, FIXED	
20	4-142-020-1	POWER SUPPLY		81	1 607 012 01	SCREW, RECESSED, FIXED	
21	4-142-021-1	POWER SUPPLY		82	1 607 012 01	SCREW, RECESSED, FIXED	
22	4-142-022-1	POWER SUPPLY		83	1 607 012 01	SCREW, RECESSED, FIXED	
23	4-142-023-1	POWER SUPPLY		84	1 607 012 01	SCREW, RECESSED, FIXED	
24	4-142-024-1	POWER SUPPLY		85	1 607 012 01	SCREW, RECESSED, FIXED	
25	4-142-025-1	POWER SUPPLY		86	1 607 012 01	SCREW, RECESSED, FIXED	
26	4-142-026-1	POWER SUPPLY		87	1 607 012 01	SCREW, RECESSED, FIXED	
27	4-142-027-1	POWER SUPPLY		88	1 607 012 01	SCREW, RECESSED, FIXED	
28	4-142-028-1	POWER SUPPLY		89	1 607 012 01	SCREW, RECESSED, FIXED	
29	4-142-029-1	POWER SUPPLY		90	1 607 012 01	SCREW, RECESSED, FIXED	
30	4-142-030-1	POWER SUPPLY		91	1 607 012 01	SCREW, RECESSED, FIXED	
31	4-142-031-1	POWER SUPPLY		92	1 607 012 01	SCREW, RECESSED, FIXED	
32	4-142-032-1	POWER SUPPLY		93	1 607 012 01	SCREW, RECESSED, FIXED	
33	4-142-033-1	POWER SUPPLY		94	1 607 012 01	SCREW, RECESSED, FIXED	
34	4-142-034-1	POWER SUPPLY		95	1 607 012 01	SCREW, RECESSED, FIXED	
35	4-142-035-1	POWER SUPPLY		96	1 607 012 01	SCREW, RECESSED, FIXED	
36	4-142-036-1	POWER SUPPLY		97	1 607 012 01	SCREW, RECESSED, FIXED	
37	4-142-037-1	POWER SUPPLY		98	1 607 012 01	SCREW, RECESSED, FIXED	
38	4-142-038-1	POWER SUPPLY		99	1 607 012 01	SCREW, RECESSED, FIXED	
39	4-142-039-1	POWER SUPPLY		100	1 607 012 01	SCREW, RECESSED, FIXED	

DENGEN SW: GEO

J : Bernoulli model
 IT : Italian model
 EE : East European model
 AG : Gaussian model
 EA : Small stable model
 W : Wigner model
 SP : Singapore model
 #7 : 12-250
 1500 : 15.05%

...21-

Ref. No.	Part No.	Description	Qty	Unit	Price	Total
ITEM 1						
101.1	8-101-101-01	101.1	1	101.1	101.1	101.1
101.2	8-101-101-02	101.2	1	101.2	101.2	101.2
101.3	8-101-101-03	101.3	1	101.3	101.3	101.3
101.4	8-101-101-04	101.4	1	101.4	101.4	101.4
ITEM 2						
201.1	8-201-201-01	201.1	1	201.1	201.1	201.1
201.2	8-201-201-02	201.2	1	201.2	201.2	201.2
201.3	8-201-201-03	201.3	1	201.3	201.3	201.3
201.4	8-201-201-04	201.4	1	201.4	201.4	201.4
ITEM 3						
301.1	8-301-301-01	301.1	1	301.1	301.1	301.1
301.2	8-301-301-02	301.2	1	301.2	301.2	301.2
301.3	8-301-301-03	301.3	1	301.3	301.3	301.3
301.4	8-301-301-04	301.4	1	301.4	301.4	301.4
ITEM 4						
401.1	8-401-401-01	401.1	1	401.1	401.1	401.1
401.2	8-401-401-02	401.2	1	401.2	401.2	401.2
401.3	8-401-401-03	401.3	1	401.3	401.3	401.3
401.4	8-401-401-04	401.4	1	401.4	401.4	401.4
ITEM 5						
501.1	8-501-501-01	501.1	1	501.1	501.1	501.1
501.2	8-501-501-02	501.2	1	501.2	501.2	501.2
501.3	8-501-501-03	501.3	1	501.3	501.3	501.3
501.4	8-501-501-04	501.4	1	501.4	501.4	501.4
ITEM 6						
601.1	8-601-601-01	601.1	1	601.1	601.1	601.1
601.2	8-601-601-02	601.2	1	601.2	601.2	601.2
601.3	8-601-601-03	601.3	1	601.3	601.3	601.3
601.4	8-601-601-04	601.4	1	601.4	601.4	601.4
ITEM 7						
701.1	8-701-701-01	701.1	1	701.1	701.1	701.1
701.2	8-701-701-02	701.2	1	701.2	701.2	701.2
701.3	8-701-701-03	701.3	1	701.3	701.3	701.3
701.4	8-701-701-04	701.4	1	701.4	701.4	701.4
ITEM 8						
801.1	8-801-801-01	801.1	1	801.1	801.1	801.1
801.2	8-801-801-02	801.2	1	801.2	801.2	801.2
801.3	8-801-801-03	801.3	1	801.3	801.3	801.3
801.4	8-801-801-04	801.4	1	801.4	801.4	801.4
ITEM 9						
901.1	8-901-901-01	901.1	1	901.1	901.1	901.1
901.2	8-901-901-02	901.2	1	901.2	901.2	901.2
901.3	8-901-901-03	901.3	1	901.3	901.3	901.3
901.4	8-901-901-04	901.4	1	901.4	901.4	901.4
ITEM 10						
1001.1	8-1001-1001-01	1001.1	1	1001.1	1001.1	1001.1
1001.2	8-1001-1001-02	1001.2	1	1001.2	1001.2	1001.2
1001.3	8-1001-1001-03	1001.3	1	1001.3	1001.3	1001.3
1001.4	8-1001-1001-04	1001.4	1	1001.4	1001.4	1001.4

Ref. No.	Part No.	Description			Remark
A	1-102-214-11	0-PAW 00 (0.57)			
		< 102-214-11 >			
1421	1-102-214-11	0-PAW 00 (0.57)	0.10 m	7%	516
1422	1-102-214-11	0-PAW 00 (0.57)	0.15 F	7%	516
1423	1-102-214-11	0-PAW 00 (0.57)	100	7%	516
1424	1-102-214-11	0-PAW 00 (0.57)	200 F	12%	507
1425	1-102-214-11	0-PAW 00 (0.57)	4-700	22%	507
1426	1-102-214-11	0-PAW 00 (0.57)	4-700	22%	516
1427	1-102-214-11	0-PAW 00 (0.57)	200 F	12%	507
1428	1-102-214-11	0-PAW 00 (0.57)	30.1 F	20%	107
1429	1-102-214-11	0-PAW 00 (0.57)	30.1 F	20%	107
1430	1-102-214-11	0-PAW 00 (0.57)	0.10 m	98%	107
		< 102-214-11 >			
A	1-102-214-11	0-PAW 00 (0.57)			
1431	1-102-214-11	0-PAW 00 (0.57)			
		< 102-214-11 >			
1432	1-102-214-11	0-PAW 00 (0.57)			
		< 102-214-11 >			
1433	1-102-214-11	0-PAW 00 (0.57)			
1434	1-102-214-11	0-PAW 00 (0.57)			
		< 102-214-11 >			
1435	1-102-214-11	0-PAW 00 (0.57)			
		< 102-214-11 >			
1436	1-102-214-11	0-PAW 00 (0.57)			
		< 102-214-11 >			
1437	1-102-214-11	0-PAW 00 (0.57)			
		< 102-214-11 >			
1438	1-102-214-11	0-PAW 00 (0.57)			
		< 102-214-11 >			
1439	1-102-214-11	0-PAW 00 (0.57)			
		< 102-214-11 >			
1440	1-102-214-11	0-PAW 00 (0.57)			
		< 102-214-11 >			
1441	1-102-214-11	0-PAW 00 (0.57)			
		< 102-214-11 >			
1442	1-102-214-11	0-PAW 00 (0.57)			
		< 102-214-11 >			
1443	1-102-214-11	0-PAW 00 (0.57)			
		< 102-214-11 >			
1444	1-102-214-11	0-PAW 00 (0.57)			
		< 102-214-11 >			
1445	1-102-214-11	0-PAW 00 (0.57)			
		< 102-214-11 >			
1446	1-102-214-11	0-PAW 00 (0.57)			
		< 102-214-11 >			
1447	1-102-214-11	0-PAW 00 (0.57)			
		< 102-214-11 >			
1448	1-102-214-11	0-PAW 00 (0.57)			
		< 102-214-11 >			
1449	1-102-214-11	0-PAW 00 (0.57)			
		< 102-214-11 >			
1450	1-102-214-11	0-PAW 00 (0.57)			
		< 102-214-11 >			
1451	1-102-214-11	0-PAW 00 (0.57)			
		< 102-214-11 >			
1452	1-102-214-11	0-PAW 00 (0.57)			
		< 102-214-11 >			
1453	1-102-214-11	0-PAW 00 (0.57)			
		< 102-214-11 >			
1454	1-102-214-11	0-PAW 00 (0.57)			
		< 102-214-11 >			
1455	1-102-214-11				

MAIN

[illegible]

Ref. No.	Part. No.	Description	Remark
00411	6-729-100-62 10	WCL1052000	
00412	6-729-100-64 10	WCL1052001 (FRONT PL)	
00772	6-729-111-63 10	WCL133700	
00111	6-729-171-62 10	WCL1572	
00112	6-729-104-94 10	WCL1580	
00111	6-729-101-91 10	WCL1592 (L)	
1400			
0 170	1-420-590-11 JACK	PL 25 (SHOWN STREAM)	
0 170	1-420-572-00 PL 1	415 (OFF)	
0 175	1-420-572-00 COIL	215 (OFF)	
< TRANSISTOR >			
0291	6-729-510-10 TRANSISTOR	WCL11400	
0291	6-729-510-60 TRANSISTOR	WCL11400	
0292	6-729-510-10 TRANSISTOR	WCL11400-FF	
0291 305	6-729-510-10 TRANSISTOR	WCL11400	
0291	6-729-510-60 TRANSISTOR	WCL11400	
0291	6-729-510-60 TRANSISTOR	WCL11400	
0291	6-729-510-60 TRANSISTOR	WCL11400-FF	
0292	6-729-510-60 TRANSISTOR	WCL11400-FF	
0291	6-729-510-60 TRANSISTOR	WCL11400-FF	
0291	6-729-510-60 TRANSISTOR	WCL11400-FF	
< RESISTOR >			
0250 251	1-241-410-01 240000	40K 5% 1/4W	
0251	241-405-11 240000	1.7K 5% 1/4W	
0251	241-405-1 240000	50K 5% 1/4W	
0251	1-241-405-11 240000	10K 5% 1/4W	
0250	1-241-410-11 240000	1K 5% 1/4W	
(RESISTOR 10K)			
0257	1-241-410-11 240000	1K 5% 1/4W	
0258	1-241-410-11 240000	40K 5% 1/4W 0.5W	
0211	1-241-410-11 240000	500K 5% 1/4W	
0212	1-241-410-11 240000	40K 5% 1/4W	
0213	1-241-410-11 240000	500K 5% 1/4W	
0214	1-241-410-11 240000	10K 5% 1/4W	
0215	1-241-410-11 240000	10K 5% 1/4W	
0211	1-241-410-11 240000	10K 5% 1/4W	
0211-101	1-241-410-11 240000	20K 5% 1/4W	
0211	1-241-410-11 240000	10K 5% 1/4W	
0212	1-241-410-11 240000	40K 5% 1/4W	
0213	1-241-410-11 240000	500K 5% 1/4W	

Ref. No.	Part No.	Description			Remark
P334	1-245-429-11	CSFB00	10K	5%	1/4W
P331	1-245-417-11	CSFB00	1K	5%	1/4W
P332	1-245-417-11	CSFB00	1K	5%	1/4W
P342	1-245-417-11	CSFB00	47K	5%	1/4W
P331	1-245-425-11	CSFB00	10K	5%	1/4W
P347	1-245-425-11	CSFB00 (RESISTOR 10K)	4.7K	5%	1/4W
P336	1-245-426-11	CSFB00 (RESISTOR 10K)	5.6K	5%	1/4W
P335	1-245-421-11	CSFB00 (RESISTOR 10K)	8.2K	5%	1/4W
P331	1-245-417-11	CSFB00	1K	5%	1/4W
P335	1-245-417-11	CSFB00	1K	5%	1/4W
P332	1-245-418-11	CSFB00	47K	5%	1/4W
P334	1-245-425-11	CSFB00	10K	5%	1/4W
P335	1-245-425-11	CSFB00 (RESISTOR 10K)	4.7K	5%	1/4W
P348	1-245-426-11	CSFB00 (RESISTOR 10K)	5.6K	5%	1/4W
P335	1-245-421-11	CSFB00 (RESISTOR 10K)	8.2K	5%	1/4W
R341-461					
R341	1-245-417-11	CSFB00	1K	5%	1/4W
R342	1-245-417-11	CSFB00	1K	5%	1/4W
R343	1-245-433-11	CSFB00	56K	5%	1/4W
R344	1-245-418-11	CSFB00	47K	5%	1/4W
R345	1-245-420-11	CSFB00	56K	5%	1/4W
△R375	1-245-351-11	FRS101E	10K	5%	1/4W F
△R376	1-245-351-11	FRS101E	10K	5%	1/4W F
R377	1-245-417-11	CSFB00	1K	5%	1/4W
R378	1-245-420-11	CSFB00	12K	5%	1/4W
R379	1-245-441-11	CSFB00	10K	5%	1/4W
△R380	1-245-358-10	MCAL PLANT	0.22		5%
R381	1-245-377-11	CSFB00	1K	5%	1/4W
R382	1-245-377-11	CSFB00	1K	5%	1/4W
R383	1-245-437-11	CSFB00	47K	5%	1/4W
R384	1-245-459-11	CSFB00	10K	5%	1/4W
R385	1-245-441-11	CSFB00	10K	5%	1/4W
R386	1-245-417-11	CSFB00	1K	5%	1/4W
R387	1-245-437-11	CSFB00	47K	5%	1/4W
R389	1-245-456-11	CSFB00	12K	5%	1/4W
△R390	1-245-419-10	MCAL PLANT	0.22		5%
△R390	1-245-419-10	MCAL PLANT (CAP)	1.2K	5%	2%
R391	1-245-377-11	CSFB00	1K	5%	1/4W
R391	1-245-417-11	CSFB00	1K	5%	1/4W
R392	1-245-420-11	CSFB00	56K	5%	1/4W
R393	1-245-418-11	CSFB00	47K	5%	1/4W
R394	1-245-420-11	CSFB00	56K	5%	1/4W

Ref. No.	Part No.	Description			Remark
8757	1-841-617-11	COVER	10	A	1/2N
8758	1-843-631-11	COVER	100	B	1/2N
8759	1-841-641-11	COVER	1.01	A	1/2N
8760	1-817-158-03	METAL PLATE	0.82		7F
8761	1-847-732-11	COVER	1	A	1/2N
8762	1-847-732-11	COVER	1	B	1/2N
8763	1-841-617-11	COVER	400	A	1/2N
8764	1-847-732-11	COVER	1	A	1/2N
8765	1-815-631-11	METAL COVER	1.88	B	7F
8766	1-815-641-11	METAL COVER	1.23	A	7F
8767	1-847-732-11	COVER	1.04	A	1/2N
8768	1-843-621-11	COVER	2.33	B	1/2N
8769	1-841-631-11	COVER	3.24	A	1/2N 0.00
8770	1-843-641-11	COVER	1.03	B	1/2N 0.00
8771	1-843-617-11	COVER	10	B	1/2N 0.00
8772	1-841-636-11	COVER	1.04	B	1/2N 0.00
8773	1-843-636-11	COVER	500	B	1/2N 0.00
8774-8775	1-843-617-11	COVER	10	B	1/2N 0.00
8776	1-847-732-11	COVER	10	A	1/2N 0.00
8777	1-843-636-11	COVER	4.7	B	1/2N 0.00
< BODY >					
8778	1-815-731-11	RELAY			
< SOURCE >					
8779	1-854-922-31	SWITCH PUSH 120 POSN:1 REC. POWER			
< TERMINAL >					
8780	1-830-241-11	TERMINAL BOARD (CONNECT PIN) (SPEAKER)			

8781	8-811-619-00	WIRE (CABLE CONNECT) (PANEL)			
8782	8-881-076-01	WIRE (CABLE CONNECT) (PANEL)			

8783	8-821-941-00	CABLE (CABLE)			
8784	8-871-001-01	CABLE (CABLE)			
8785	8-851-101-01	CABLE (CABLE)			
< CABLEING >					
8786	1-851-151-11	CABLE	2.50		300
8787	1-862-241-31	CABLE	1.00		300
8788	1-862-241-31	CABLE	1.00		300
8789	1-851-151-11	CABLE	2.50		300
8790	1-823-601-11	CABLE	0.15-F		300
8791	1-824-631-00	CABLE	0.15-F		300
8792	1-815-631-11	CABLE	1.1		300
8793	1-815-631-11	CABLE	1.1		300
8794	1-815-631-11	CABLE	1.1		300

The components identified by
mark 1 on dotted line with check
5. are certified for safety.
Failure only with steel member
specified.

PANEL

Part No.	Part No.	Description	Quantity	Unit Price	Total Price
0111	1-111-111-11	COMPONENT	1.00	100	100
0112	1-111-111-12	COMPONENT	1.00	100	100
0113	1-111-111-13	COMPONENT	1.00	100	100
0114	1-111-111-14	COMPONENT	1.00	100	100
0115	1-111-111-15	COMPONENT	1.00	100	100
0116	1-111-111-16	COMPONENT	1.00	100	100
0117	1-111-111-17	COMPONENT	1.00	100	100
0118	1-111-111-18	COMPONENT	1.00	100	100
0119	1-111-111-19	COMPONENT	1.00	100	100
0120	1-111-111-20	COMPONENT	1.00	100	100
0121	1-111-111-21	COMPONENT	1.00	100	100
0122	1-111-111-22	COMPONENT	1.00	100	100
0123	1-111-111-23	COMPONENT	1.00	100	100
0124	1-111-111-24	COMPONENT	1.00	100	100
0125	1-111-111-25	COMPONENT	1.00	100	100
0126	1-111-111-26	COMPONENT	1.00	100	100
0127	1-111-111-27	COMPONENT	1.00	100	100
0128	1-111-111-28	COMPONENT	1.00	100	100
0129	1-111-111-29	COMPONENT	1.00	100	100
0130	1-111-111-30	COMPONENT	1.00	100	100
0131	1-111-111-31	COMPONENT	1.00	100	100
0132	1-111-111-32	COMPONENT	1.00	100	100
0133	1-111-111-33	COMPONENT	1.00	100	100
0134	1-111-111-34	COMPONENT	1.00	100	100
0135	1-111-111-35	COMPONENT	1.00	100	100
0136	1-111-111-36	COMPONENT	1.00	100	100
0137	1-111-111-37	COMPONENT	1.00	100	100
0138	1-111-111-38	COMPONENT	1.00	100	100
0139	1-111-111-39	COMPONENT	1.00	100	100
0140	1-111-111-40	COMPONENT	1.00	100	100
0141	1-111-111-41	COMPONENT	1.00	100	100
0142	1-111-111-42	COMPONENT	1.00	100	100
0143	1-111-111-43	COMPONENT	1.00	100	100
0144	1-111-111-44	COMPONENT	1.00	100	100
0145	1-111-111-45	COMPONENT	1.00	100	100
0146	1-111-111-46	COMPONENT	1.00	100	100
0147	1-111-111-47	COMPONENT	1.00	100	100
0148	1-111-111-48	COMPONENT	1.00	100	100
0149	1-111-111-49	COMPONENT	1.00	100	100
0150	1-111-111-50	COMPONENT	1.00	100	100
0151	1-111-111-51	COMPONENT	1.00	100	100
0152	1-111-111-52	COMPONENT	1.00	100	100
0153	1-111-111-53	COMPONENT	1.00	100	100
0154	1-111-111-54	COMPONENT	1.00	100	100
0155	1-111-111-55	COMPONENT	1.00	100	100
0156	1-111-111-56	COMPONENT	1.00	100	100
0157	1-111-111-57	COMPONENT	1.00	100	100
0158	1-111-111-58	COMPONENT	1.00	100	100
0159	1-111-111-59	COMPONENT	1.00	100	100
0160	1-111-111-60	COMPONENT	1.00	100	100
0161	1-111-111-61	COMPONENT	1.00	100	100
0162	1-111-111-62	COMPONENT	1.00	100	100
0163	1-111-111-63	COMPONENT	1.00	100	100
0164	1-111-111-64	COMPONENT	1.00	100	100
0165	1-111-111-65	COMPONENT	1.00	100	100
0166	1-111-111-66	COMPONENT	1.00	100	100
0167	1-111-111-67	COMPONENT	1.00	100	100
0168	1-111-111-68	COMPONENT	1.00	100	100
0169	1-111-111-69	COMPONENT	1.00	100	100
0170	1-111-111-70	COMPONENT	1.00	100	100
0171	1-111-111-71	COMPONENT	1.00	100	100
0172	1-111-111-72	COMPONENT	1.00	100	100
0173	1-111-111-73	COMPONENT	1.00	100	100

Ref No	Part No	Description	Quantity	Unit
0050	8-715-371-35	STD	1	EA
0051	8-715-371-36	STD	1	EA
0052	8-715-371-37	STD	1	EA
0053	8-715-371-38	STD	1	EA
0054	8-715-371-39	STD	1	EA
0055	8-715-371-40	STD	1	EA
0056	8-715-371-41	STD	1	EA
0057	8-715-371-42	STD	1	EA
0058	8-715-371-43	STD	1	EA
0059	8-715-371-44	STD	1	EA
0060	8-715-371-45	STD	1	EA
0061	8-715-371-46	STD	1	EA
0062	8-715-371-47	STD	1	EA
0063	8-715-371-48	STD	1	EA
0064	8-715-371-49	STD	1	EA
0065	8-715-371-50	STD	1	EA
0066	8-715-371-51	STD	1	EA
0067	8-715-371-52	STD	1	EA
0068	8-715-371-53	STD	1	EA
0069	8-715-371-54	STD	1	EA
0070	8-715-371-55	STD	1	EA
0071	8-715-371-56	STD	1	EA
0072	8-715-371-57	STD	1	EA
0073	8-715-371-58	STD	1	EA
0074	8-715-371-59	STD	1	EA
0075	8-715-371-60	STD	1	EA
0076	8-715-371-61	STD	1	EA
0077	8-715-371-62	STD	1	EA
0078	8-715-371-63	STD	1	EA
0079	8-715-371-64	STD	1	EA
0080	8-715-371-65	STD	1	EA
0081	8-715-371-66	STD	1	EA
0082	8-715-371-67	STD	1	EA
0083	8-715-371-68	STD	1	EA
0084	8-715-371-69	STD	1	EA
0085	8-715-371-70	STD	1	EA
0086	8-715-371-71	STD	1	EA
0087	8-715-371-72	STD	1	EA
0088	8-715-371-73	STD	1	EA
0089	8-715-371-74	STD	1	EA
0090	8-715-371-75	STD	1	EA
0091	8-715-371-76	STD	1	EA
0092	8-715-371-77	STD	1	EA
0093	8-715-371-78	STD	1	EA
0094	8-715-371-79	STD	1	EA
0095	8-715-371-80	STD	1	EA
0096	8-715-371-81	STD	1	EA
0097	8-715-371-82	STD	1	EA
0098	8-715-371-83	STD	1	EA
0099	8-715-371-84	STD	1	EA
0100	8-715-371-85	STD	1	EA

PANEL	PIN JACK
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Ref. No.	Part No.	Description	QTY	UOM	Unit Cost
R001	1-240-401-01	COMP	10	EA	1.25
	1-240-401-11	COMP	100	EA	1.25
	1-240-401-11	COMP	200	EA	1.25
	1-240-401-01	COMP	1000	EA	1.25
	1-240-401-11	COMP	350	EA	1.25
R002	1-240-401-11	COMP	1000	EA	1.25
	1-240-401-11	COMP	950	EA	1.25
	1-240-401-11	COMP	100	EA	1.25
	1-240-401-11	COMP	100	EA	1.25
	1-240-401-11	COMP	4.75	EA	1.25
R003	1-240-401-11	COMP	4.75	EA	1.25
	1-240-401-11	COMP	1000	EA	1.25
	1-240-401-11	COMP	100	EA	1.25
	1-240-401-11	COMP	10	EA	1.25
	1-240-401-11	COMP	1.25	EA	1.25
R004	1-240-401-11	COMP	200	EA	1.25
	1-240-401-11	COMP	1000	EA	1.25
	1-240-401-11	COMP	200	EA	1.25
	1-240-401-11	COMP	1000	EA	1.25
	1-240-401-11	COMP	1000	EA	1.25
R005	1-240-401-11	COMP	1000	EA	1.25
	1-240-401-11	COMP	1000	EA	1.25
	1-240-401-11	COMP	1000	EA	1.25
	1-240-401-11	COMP	1000	EA	1.25
	1-240-401-11	COMP	1000	EA	1.25
R006	1-240-401-11	COMP	1000	EA	1.25
	1-240-401-11	COMP	1000	EA	1.25
	1-240-401-11	COMP	1000	EA	1.25
	1-240-401-11	COMP	1000	EA	1.25
	1-240-401-11	COMP	1000	EA	1.25
R007	1-240-401-11	COMP	1000	EA	1.25
	1-240-401-11	COMP	1000	EA	1.25
	1-240-401-11	COMP	1000	EA	1.25
	1-240-401-11	COMP	1000	EA	1.25
	1-240-401-11	COMP	1000	EA	1.25
R008	1-240-401-11	COMP	1000	EA	1.25
	1-240-401-11	COMP	1000	EA	1.25
	1-240-401-11	COMP	1000	EA	1.25
	1-240-401-11	COMP	1000	EA	1.25
	1-240-401-11	COMP	1000	EA	1.25
R009	1-240-401-11	COMP	1000	EA	1.25
	1-240-401-11	COMP	1000	EA	1.25
	1-240-401-11	COMP	1000	EA	1.25
	1-240-401-11	COMP	1000	EA	1.25
	1-240-401-11	COMP	1000	EA	1.25
R010	1-240-401-11	COMP	1000	EA	1.25
	1-240-401-11	COMP	1000	EA	1.25
	1-240-401-11	COMP	1000	EA	1.25
	1-240-401-11	COMP	1000	EA	1.25
	1-240-401-11	COMP	1000	EA	1.25
R011	1-240-401-11	COMP	1000	EA	1.25
	1-240-401-11	COMP	1000	EA	1.25
	1-240-401-11	COMP	1000	EA	1.25
	1-240-401-11	COMP	1000	EA	1.25
	1-240-401-11	COMP	1000	EA	1.25
R012	1-240-401-11	COMP	1000	EA	1.25
	1-240-401-11	COMP	1000	EA	1.25
	1-240-401-11	COMP	1000	EA	1.25
	1-240-401-11	COMP	1000	EA	1.25
	1-240-401-11	COMP	1000	EA	1.25
R013	1-240-401-11	COMP	1000	EA	1.25
	1-240-401-11	COMP	1000	EA	1.25
	1-240-401-11	COMP	1000	EA	1.25
	1-240-401-11	COMP	1000	EA	1.25
	1-240-401-11	COMP	1000	EA	1.25
R014	1-240-401-11	COMP	1000	EA	1.25

• 28 11 8 43 57 •

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KREF1 1-200-377-11 MSG. FOR COMBAT LOGS/1076
        OPERATED BASE SYSTEM LEVEL
KREF2 1-200-177-11 MSG. FOR COMBAT LOGS/1076
        OPERATED BASE SYSTEM PREVIEWER (200)
KREF3 1-200-180-11 MSG. FOR COMBAT LOGS/1076

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[illegible]

Ref.No.	Part No.	Description	Remark		
C154	1-112-411-31	RESWTR	500K	7%	1/4W
C155	1-152-410-11	ELBCT	470K	20%	1/4W
C156	1-150-480-00	MELAS	0.0056uF	5%	50V
C157	1-150-481-00	MELAL	0.0015uF	5%	25V
C158	1-124-414-11	ELBHT	0.52K	5%	1/4W
C159	1-124-414-51	ELBHT	15K	20%	1/4W
C160	1-152-485-31	RESWTR	2500F	10%	50V
C161	1-126-420-11	ELBCT	250K	20%	1/4W
C162	1-152-488-31	RESWTR	2500F	10%	50V
C163	1-126-421-11	ELBHT	250K	20%	1/4W
C169	1-152-488-31	RESWTR	2500F	10%	50V
C170	1-152-414-11	RESWTR	0.10K	5%	1/4W
C171	1-124-434-51	ELBHT	350K	20%	1/4W

< C10000.00 >

C1710 1-011-163-11 COMPETOR (50500 00 50500 130)

< C17 >

C1701 4-712-120-13 DR RESWTR 1/2W

C1702 3-752-010-40 IC P1414LMF

< C1000 >

C171 1-552-122-11 JACK, PIN 24 (4000)

C172 1-542-228-11 JACK, PIN 24 (50, 5000)

< RESWTR >

R111	1-542-417-11	CARBON	1K	5%	1/4W
R112	1-542-411-11	CARBON	10.0K	5%	1/4W
R113	1-542-417-11	CARBON	1K	5%	1/4W
R114	1-542-411-11	CARBON	10.0K	5%	1/4W
R115	1-542-411-11	CARBON	120	5%	1/4W

R116	1-542-417-11	CARBON	10.0K	5%	1/4W
R117	1-542-417-11	CARBON	47K	5%	1/4W
R118	1-542-417-11	CARBON	1K	5%	1/4W
R119	1-542-417-11	CARBON	10.0K	5%	1/4W
R120	1-542-411-11	CARBON	100	5%	1/4W

R121	1-542-421-11	CARBON	5.0K	5%	1/4W
R122	1-542-423-11	CARBON	10K	5%	1/4W
R123	1-542-417-11	CARBON	1K	5%	1/4W
R124	1-542-417-11	CARBON	10K	5%	1/4W
R125	1-542-417-11	CARBON	10K	5%	1/4W
R126	1-542-417-11	CARBON	10K	5%	1/4W

C172 134

C173	1-240-417-11	CARBON	1K	5%	1/4W
C174	1-240-417-11	CARBON	1K	5%	1/4W
C175	1-240-441-11	CARBON	100K	5%	1/4W
C176	1-240-417-11	CARBON	1K	5%	1/4W
C177	1-240-441-11	CARBON	100K	5%	1/4W

C178	1-240-416-11	CARBON	10K	5%	1/4W
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Ref.No.	Part No.	Description	Remark		
C155	1-247-457-11	CARBON	500K	5%	1/4W
C156	1-245-457-11	CARBON	47K	5%	1/4W
C158	1-245-417-11	CARBON	1K	5%	1/4W
C159	1-245-441-11	CARBON	100K	5%	1/4W
C160	1-247-457-11	CARBON	100	5%	1/4W
C162	1-247-457-11	CARBON	5.0K	5%	1/4W
C163	1-245-429-11	CARBON	10K	5%	1/4W
C165	1-247-417-11	CARBON	1K	5%	1/4W
C166	1-245-417-11	CARBON	10K	5%	1/4W
C167	1-247-457-11	CARBON	100	5%	1/4W

C171 1-552-122-11 JACK, PIN 24 (4000)

C172 1-542-228-11 JACK, PIN 24 (50, 5000)

< C1000 >

< C10000.00 >

C175	1-121-027-01	ELBCT	5000F	20%	1/4W
C176	1-121-027-01	ELBCT	5000F	20%	1/4W
C177	1-101-006-01	CARBON	0.10K	5%	1/4W
C178	1-101-006-01	CARBON	0.10K	5%	1/4W
C179	1-101-006-01	CARBON	0.10K	5%	1/4W
C180	1-101-006-01	CARBON	0.10K	5%	1/4W

R175	1-101-101-01	ELBCT	0.10K	5%	1/4W
R176	1-101-101-01	ELBCT	0.10K	5%	1/4W
R177	1-101-101-01	ELBCT	0.10K	5%	1/4W
R178	1-101-101-01	ELBCT	0.10K	5%	1/4W
R179	1-101-101-01	ELBCT	0.10K	5%	1/4W
R180	1-101-101-01	ELBCT	0.10K	5%	1/4W

< C1000 >

C181	1-712-120-13	DRBCT	500-500-00		
C182	1-712-120-13	DRBCT	500-500-00		
C183	1-712-120-13	DRBCT	500-500-00		
C184	1-712-120-13	DRBCT	500-500-00		
C185	1-712-120-13	DRBCT	500-500-00		
C186	1-712-120-13	DRBCT	500-500-00		
C187	1-712-120-13	DRBCT	500-500-00		
C188	1-712-120-13	DRBCT	500-500-00		
C189	1-712-120-13	DRBCT	500-500-00		
C190	1-712-120-13	DRBCT	500-500-00		

< C1000 >

C191 1-552-122-11 JACK, PIN 24 (4000)

C192 1-542-228-11 JACK, PIN 24 (50, 5000)

< RESWTR >

R193	1-542-417-11	CARBON	5.0K	5%	1/4W
R194	1-542-417-11	CARBON	5.0K	5%	1/4W

C195 1-542-417-11 JACK, PIN 24 (4000)

C196 1-542-417-11 JACK, PIN 24 (4000)

C197 1-542-417-11 JACK, PIN 24 (4000)

C198 1-542-417-11 JACK, PIN 24 (4000)

C199 1-542-417-11 JACK, PIN 24 (4000)

C200 1-542-417-11 JACK, PIN 24 (4000)

C201 1-542-417-11 JACK, PIN 24 (4000)

C202 1-542-417-11 JACK, PIN 24 (4000)

C203 1-542-417-11 JACK, PIN 24 (4000)

C204 1-542-417-11 JACK, PIN 24 (4000)

C205 1-542-417-11 JACK, PIN 24 (4000)

C206 1-542-417-11 JACK, PIN 24 (4000)

C207 1-542-417-11 JACK, PIN 24 (4000)

C208 1-542-417-11 JACK, PIN 24 (4000)

C209 1-542-417-11 JACK, PIN 24 (4000)

C210 1-542-417-11 JACK, PIN 24 (4000)

The components identified by
mark A, on 4-M.D. line with part
A are critical for safety.
Replace only with a component
specified.

VR

Dist. No.	Dist. No.	Description	Revised
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• 2015年12月 •

- * DME07 1-575-378-11 FUMEX, COMBUSTION

Call:

1457 : (2)

- | | | | |
|------|--------------|-------|----------|
| 1971 | 0 515-010-50 | BOCCE | 1971 |
| 1971 | 0 515-010-52 | BOCCE | U2 4.73% |
| 1975 | 0 515-210-50 | BOCCE | 1975 |
| 1975 | 0 515-210-52 | BOCCE | 1975 |

15

- 1031A 8-175-491-50 11 6173

1053E.14

- | | | | |
|------|--------------|-----------|------------|
| Q121 | 4-725-110-13 | 300% STOP | 10-11-08 |
| Q821 | 3-725-141-56 | 200% STOP | 22-09-2013 |
| Q121 | 4-725-141-26 | 300% STOP | 22-09-2013 |
| Q121 | 2-725-370-61 | 700% STOP | 10-11-08 |

(TESTS)

- | | | | | | |
|------|--------------|--------|------|----|------|
| R020 | 1-245-435-11 | 165000 | 4.76 | 58 | 1-18 |
| R021 | 1-245-437-11 | 165000 | 11 | 50 | 1-18 |
| R120 | 1-245-435-11 | 165000 | 4.76 | 50 | 1-18 |
| R311 | 1-245-437-11 | 165000 | 13 | 58 | 1-18 |
| R125 | 1-245-437-11 | 165000 | 4.76 | 50 | 1-18 |
| R124 | 1-245-437-11 | 165000 | 10. | 58 | 1-18 |
| R375 | 1-245-430-11 | 165000 | 22K | 58 | 1-18 |
| R126 | 1-245-437-11 | 165000 | 22K | 50 | 1-18 |
| R371 | 1-245-430-11 | 165000 | 41 | 58 | 1-18 |

(FINGERPRINT TESTING)

- 1990 1-22-4,6-11 HSE, 790, 64000 1.05/100/136 (20000)

Ref. Co.	Parg. Co.	Description	Remarks

REFLECTIONS

11-11-11-11

- | | | | | |
|------|--------------|--------|------------|----------------|
| 75 | 1-100-010-11 | A.B.C. | FLAT TOP | 25 GALL |
| 65 | 1-100-114-3 | KUPE | FLAT TOP | 17 GALL |
| 2675 | 1-100-010-11 | GUIN | POWEL GUIN | 12.13.14.15.16 |
| 2676 | 1-100-010-11 | GUIN | POWEL GU | |
| 2677 | 1-100-010-11 | GUIN | POWEL GUIN | |
| 69 | 1-100-034-11 | KUPE | FLAT TOP | 15 GALL |
| 70 | 1-100-010-11 | A.B.C. | FLAT TOP | 25 GALL |
| 2678 | 1-100-034-11 | GUIN | POWEL GUIN | |
| 2679 | 1-100-034-11 | GUIN | POWEL GUIN | |
| 2680 | 1-100-034-11 | GUIN | POWEL GUIN | |
| 2681 | 1-100-034-11 | GUIN | POWEL GUIN | |
| 2682 | 1-100-034-11 | GUIN | POWEL GUIN | |
| 2683 | 1-100-034-11 | GUIN | POWEL GUIN | |
| 2684 | 1-100-034-11 | GUIN | POWEL GUIN | |
| 2685 | 1-100-034-11 | GUIN | POWEL GUIN | |
| 2686 | 1-100-034-11 | GUIN | POWEL GUIN | |
| 2687 | 1-100-034-11 | GUIN | POWEL GUIN | |
| 2688 | 1-100-034-11 | GUIN | POWEL GUIN | |
| 2689 | 1-100-034-11 | GUIN | POWEL GUIN | |
| 2690 | 1-100-034-11 | GUIN | POWEL GUIN | |
| 2691 | 1-100-034-11 | GUIN | POWEL GUIN | |
| 2692 | 1-100-034-11 | GUIN | POWEL GUIN | |
| 2693 | 1-100-034-11 | GUIN | POWEL GUIN | |
| 2694 | 1-100-034-11 | GUIN | POWEL GUIN | |
| 2695 | 1-100-034-11 | GUIN | POWEL GUIN | |
| 2696 | 1-100-034-11 | GUIN | POWEL GUIN | |
| 2697 | 1-100-034-11 | GUIN | POWEL GUIN | |
| 2698 | 1-100-034-11 | GUIN | POWEL GUIN | |
| 2699 | 1-100-034-11 | GUIN | POWEL GUIN | |
| 2700 | 1-100-034-11 | GUIN | POWEL GUIN | |

[illegible]

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 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1

HARDWARE LIST

[illegible]

- | | | |
|----|-------------------|---------------|
| 61 | 7 121 03 00 8000 | CONCERN |
| 62 | 7 012 512 04 8000 | +PRT 601 15 |
| 63 | 7 081 157 75 8000 | +PRT 801 1000 |
| 64 | 7 015 117 00 8000 | CONC 300 15 |
| 65 | 7 083 545 04 8000 | +PRT 800 150 |
| | | |
| 66 | 7 085 645 77 8000 | +PRT 800 1000 |
| 67 | 7 010 040 00 8000 | CONC 300 1000 |

The recommended identification by
mark β_1 or rolled joint with mark
 β_1 are critical for safety.
Replace only with part number
specification.