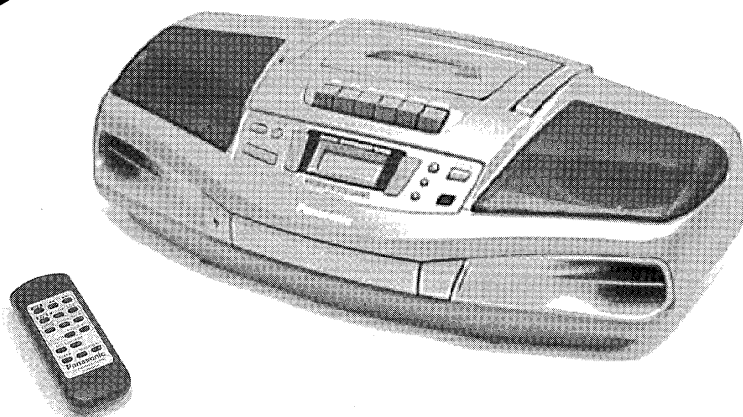


Service Manual

Portable Stereo CD System

RX-DS19

Simplified
MASH*
 multi-stage noise shaping

COMPACT
disc
 DIGITAL AUDIO
**Colour**

(S) . . . Silver Type

Area

Suffix for Model No.	Area	Colour
(GC)	Asia, Latin America, Middle East & Africa.	(S)
(GN)	Oceania.	

* MASH is a trademark of NTT.

TAPE SECTION : SG20 Mechanism Series
CD SECTION : RAE0152Z-M Traverse Deck Series

Please file and use this Service Manual together with the Service Manual for Model No. RX-DS 18 (GC, GN) Order No. MD9804089C3 .

Note : This Simplified Service Manual is provided to indicate the main difference between the original Model No. RX-DS 18 (GC, GN) and the subsequent Model No. RX-DS 19 (GC, GN).


Panasonic/Technics

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Panasonic®

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B MAIN(TUNER) CIRCUIT (P.C.Board on pages 8, 10)

: +B line

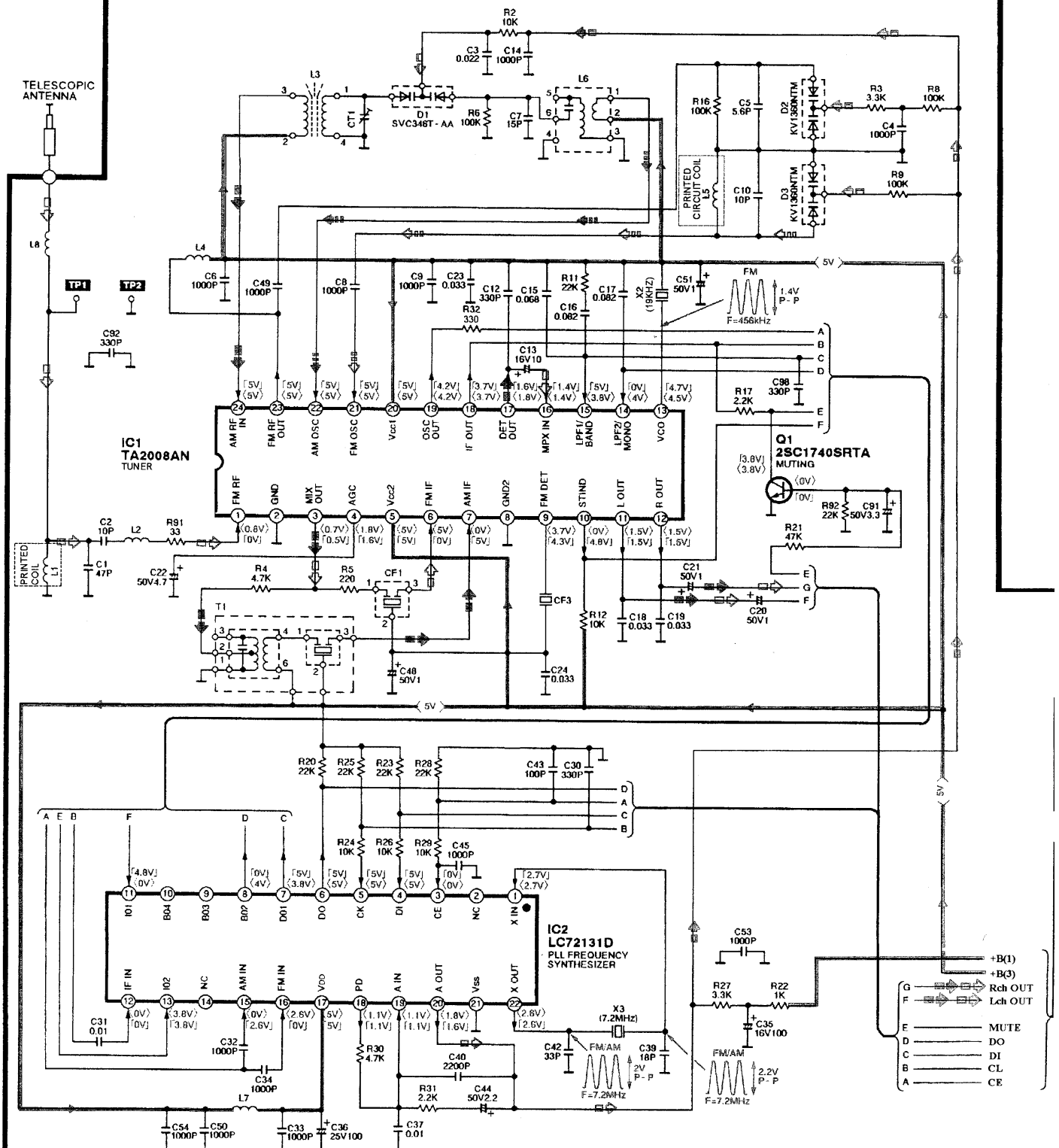
: AM signal line

: FM signal line

: AM OSC signal line

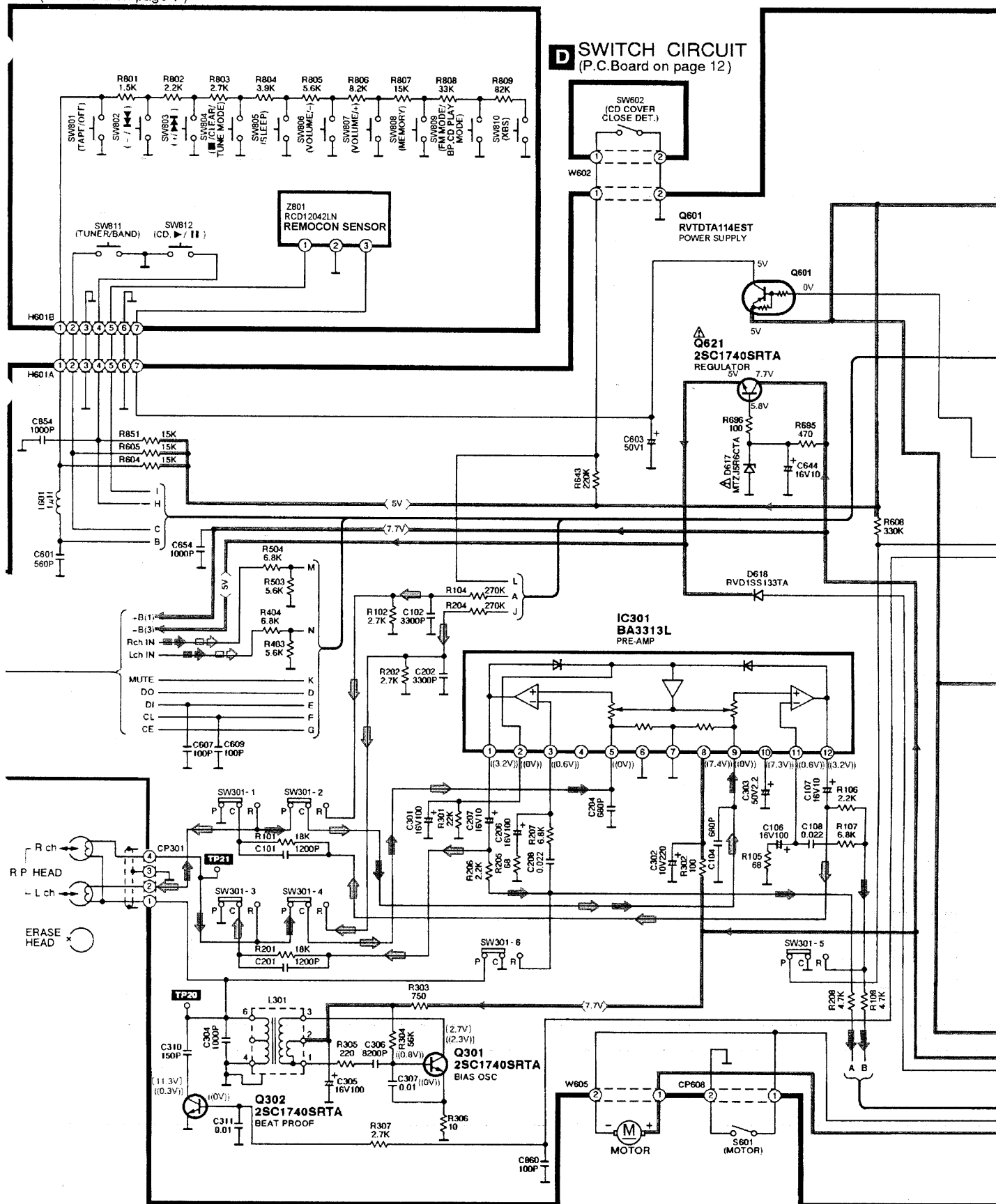
: FM OSC signal line

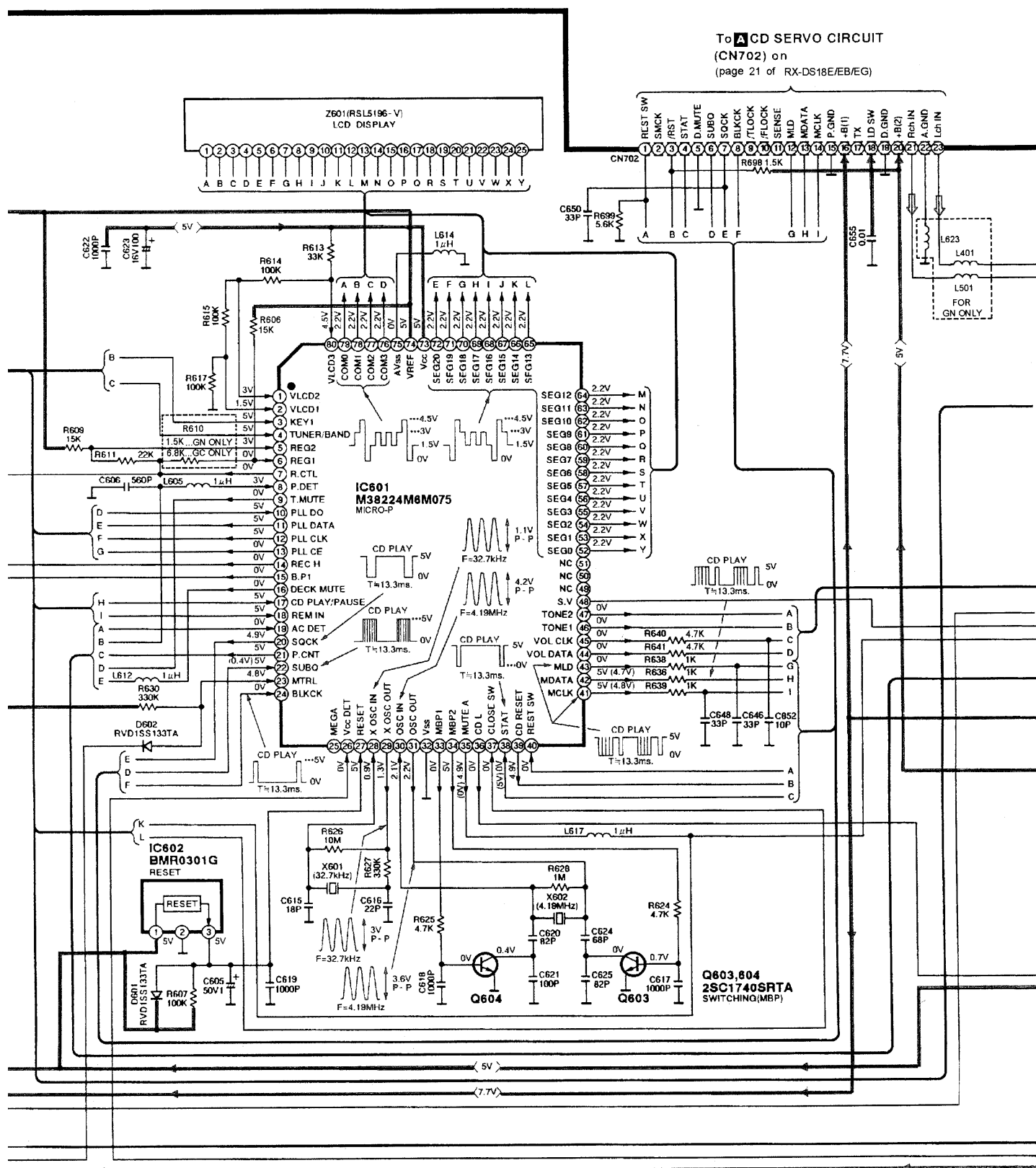
: AM/FM signal line

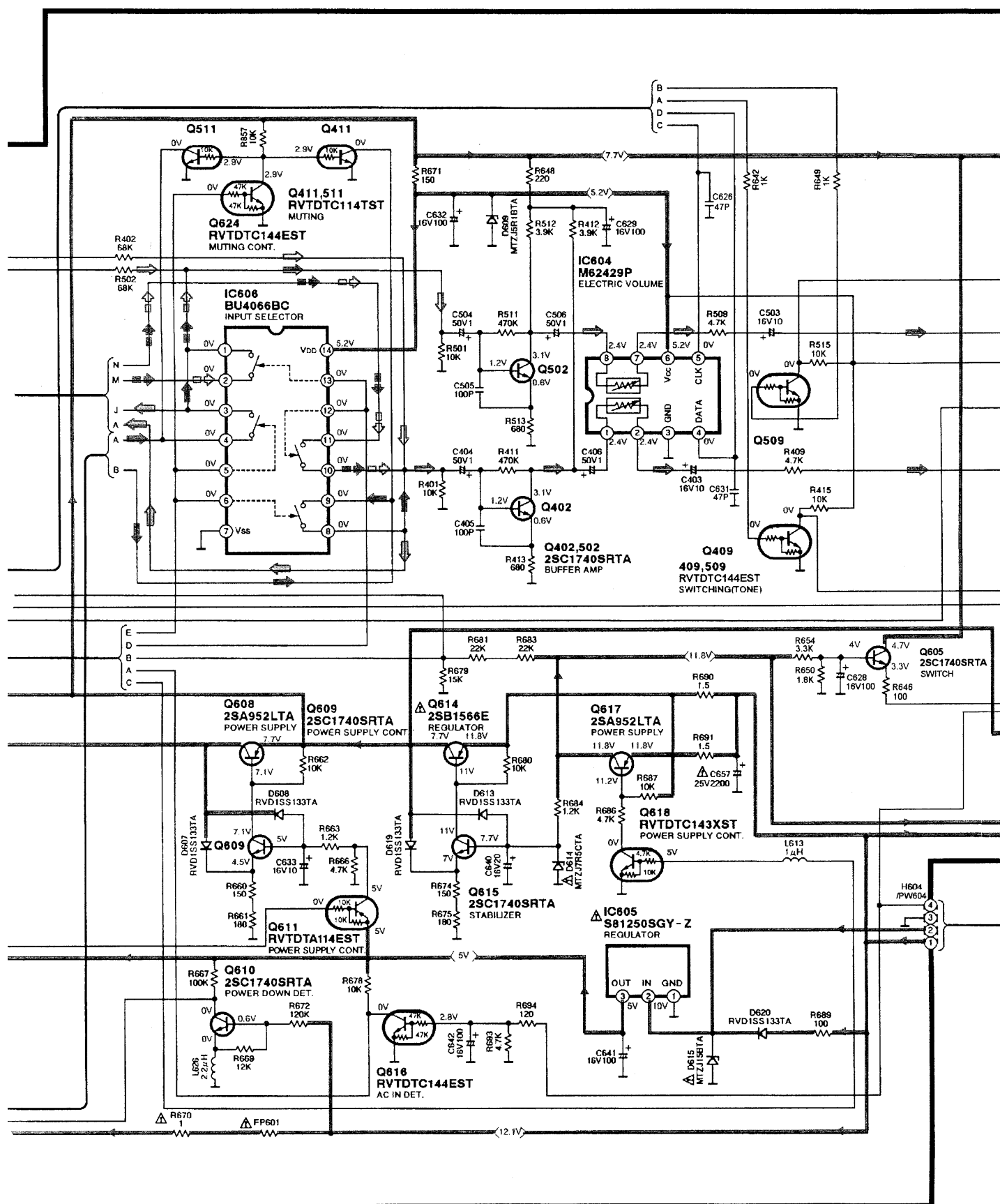


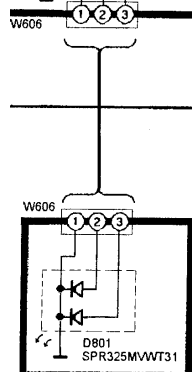
 : +B line  : Playback signal line  : FM signal line  : AM signal line  : REC signal line

C OPERATION CIRCUIT
(P.C.Board on page 7)









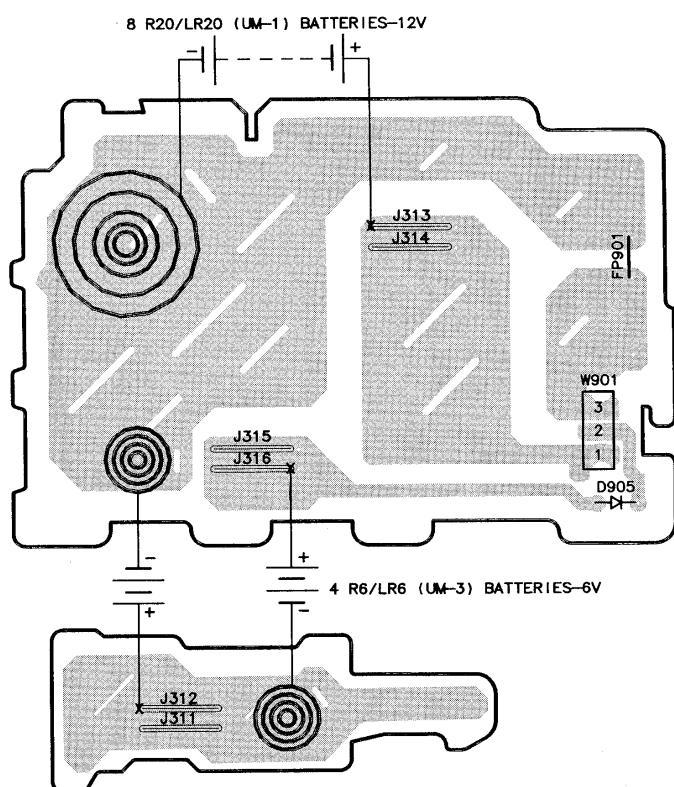
MEMORY 4 "AA" SIZE BATTERIES 6V

The schematic diagram illustrates the power supply section of a radio receiver. It includes the following components and connections:

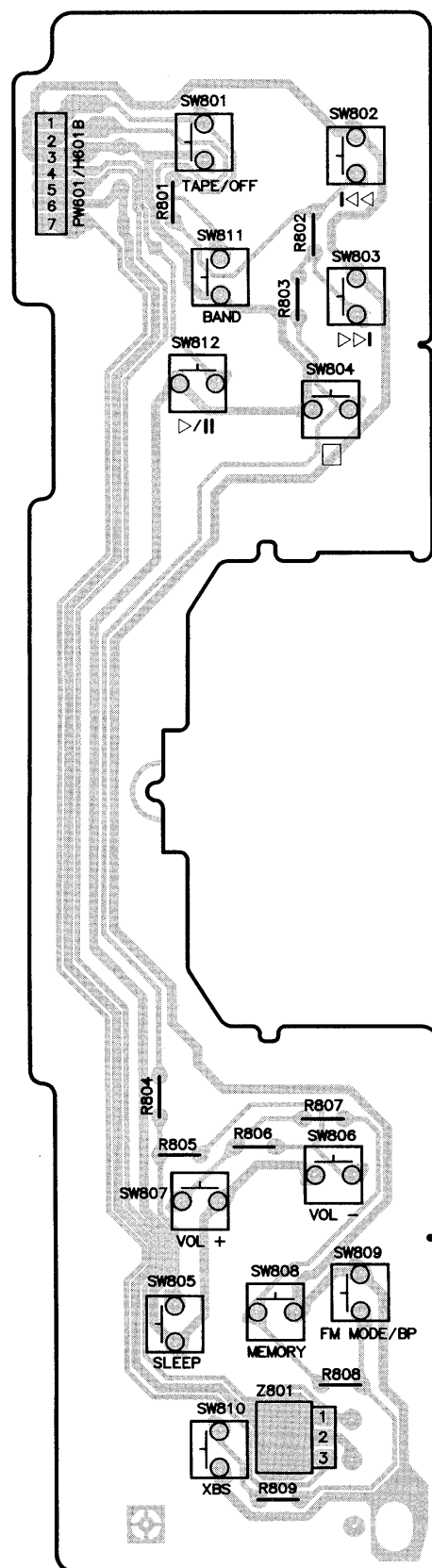
- AC Input:** Labeled "AC" and "AC10.7V". It is connected to a transformer (T901) with a primary winding of 230-250V and a secondary winding of 200-220V/110-127V.
- Rectifier:** A bridge rectifier consisting of four diodes (D901, D902, D903, D904) and four capacitors (C901, C902, C903, C904) connected in a full-wave bridge configuration.
- Filter:** A capacitor (C905) connected in parallel with the rectifier output.
- Output Filter:** A transformer (T902) with a primary winding of 230-250V and a secondary winding of 200-220V/110-127V, connected to a filter capacitor (C906).
- Grounding:** The circuit is grounded to a common ground (GND) point, labeled "FOR GN ONLY".
- Components:**
 - CP604 / PVW604: A component connected to the AC input.
 - R901: 270Ω resistor.
 - D901 - D904: Diodes, 1SR35400V.
 - C901 - C904: Capacitors, 0.01μF.
 - C905: Capacitor, 0.01μF.
 - C906: Capacitor, 0.01μF.
 - T901: Transformer, 230-250V / 200-220V / 110-127V.
 - T902: Transformer, 230-250V / 200-220V / 110-127V.
 - SW901: Switch, 2-position.
 - SW902: Switch, 3-position.
 - JK901: Jack, 2-pin.

■ Printed Circuit Board

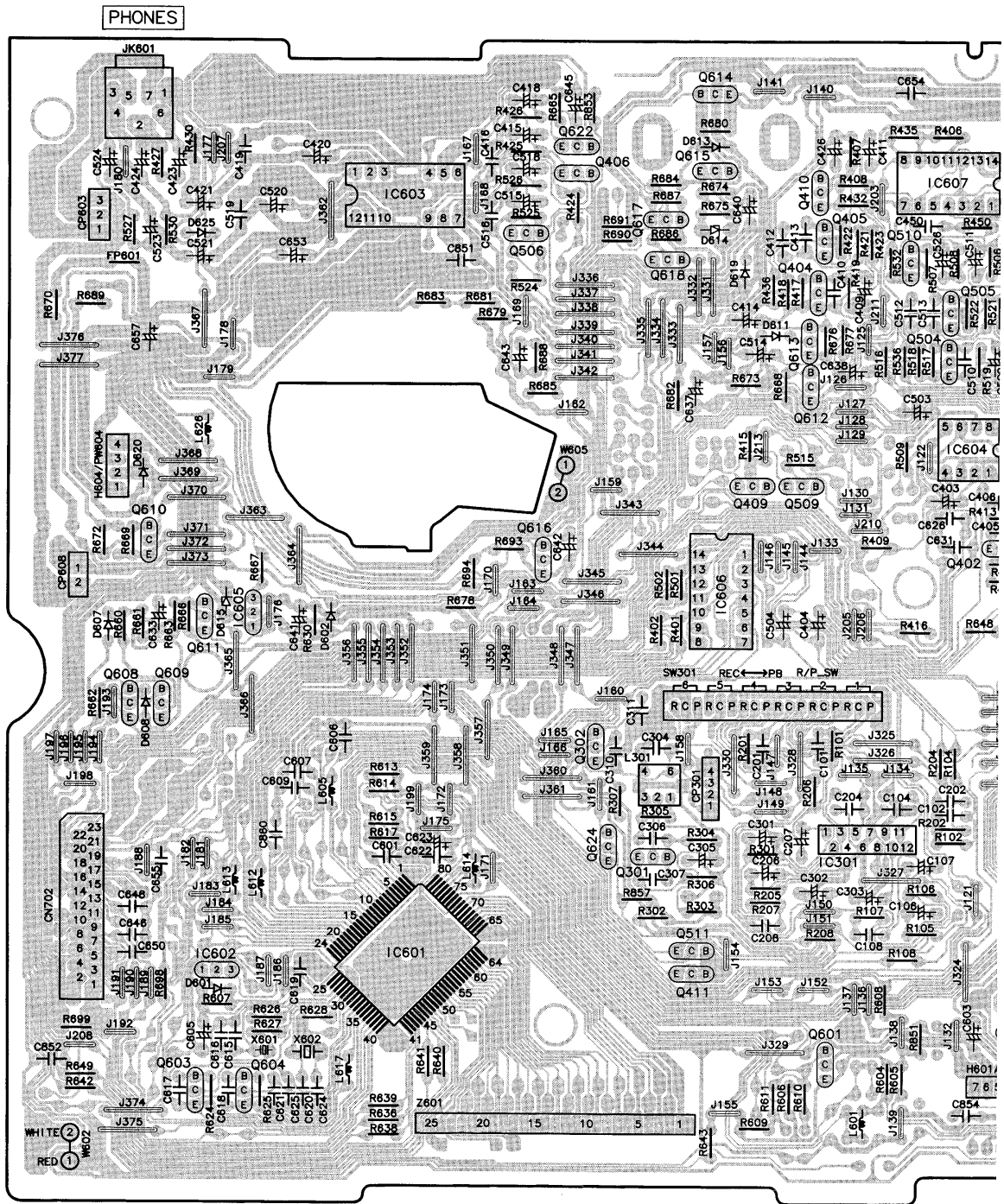
F BATTERY TERMINAL P.C.B.
(REP2652M ... GC)
(REP2652J ... GN)



C OPERATION P.C.B.
(REP2652M ... GC)
(REP2652J ... GN)



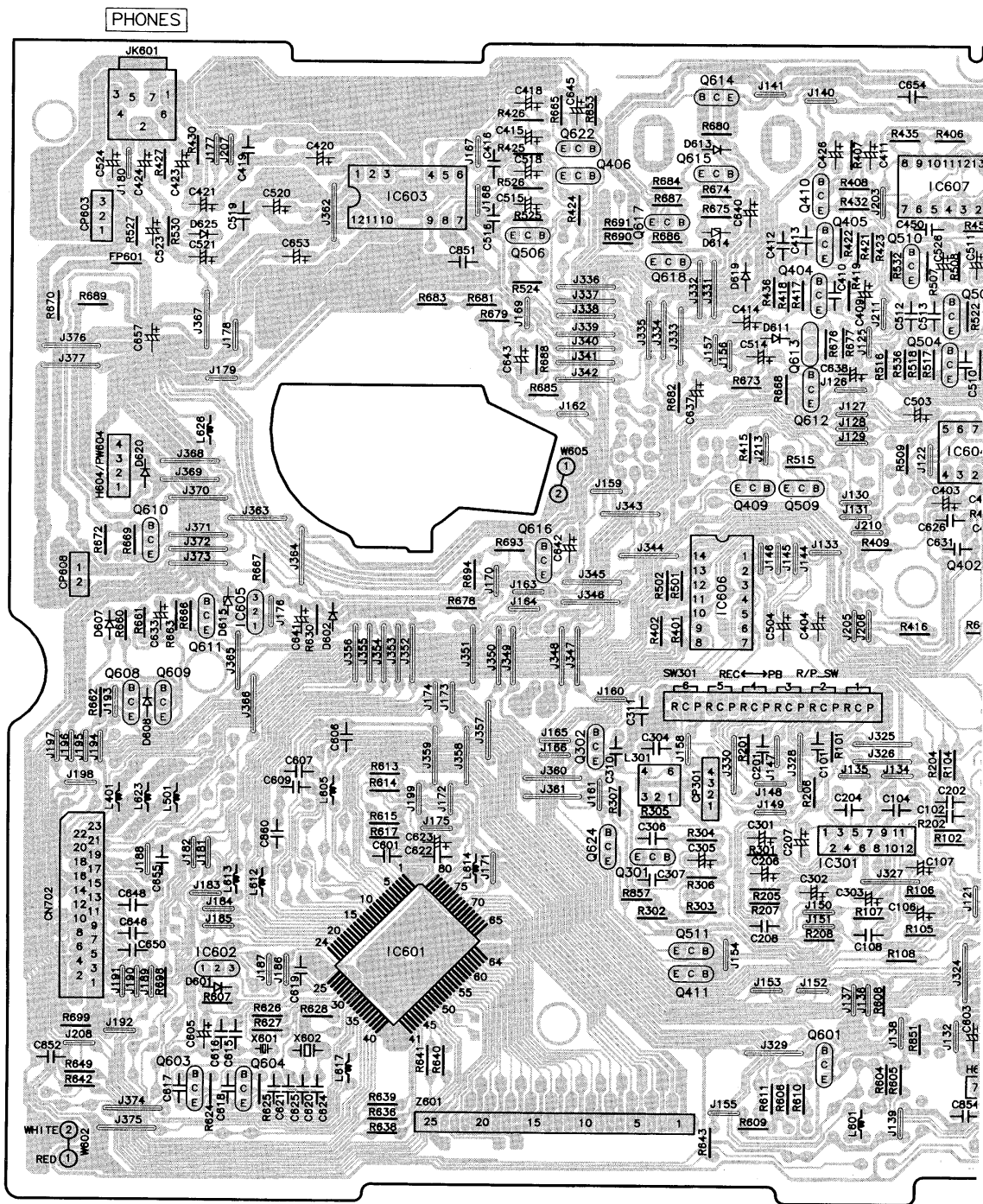
B MAIN P.C.B. (REP2652M ...GC)





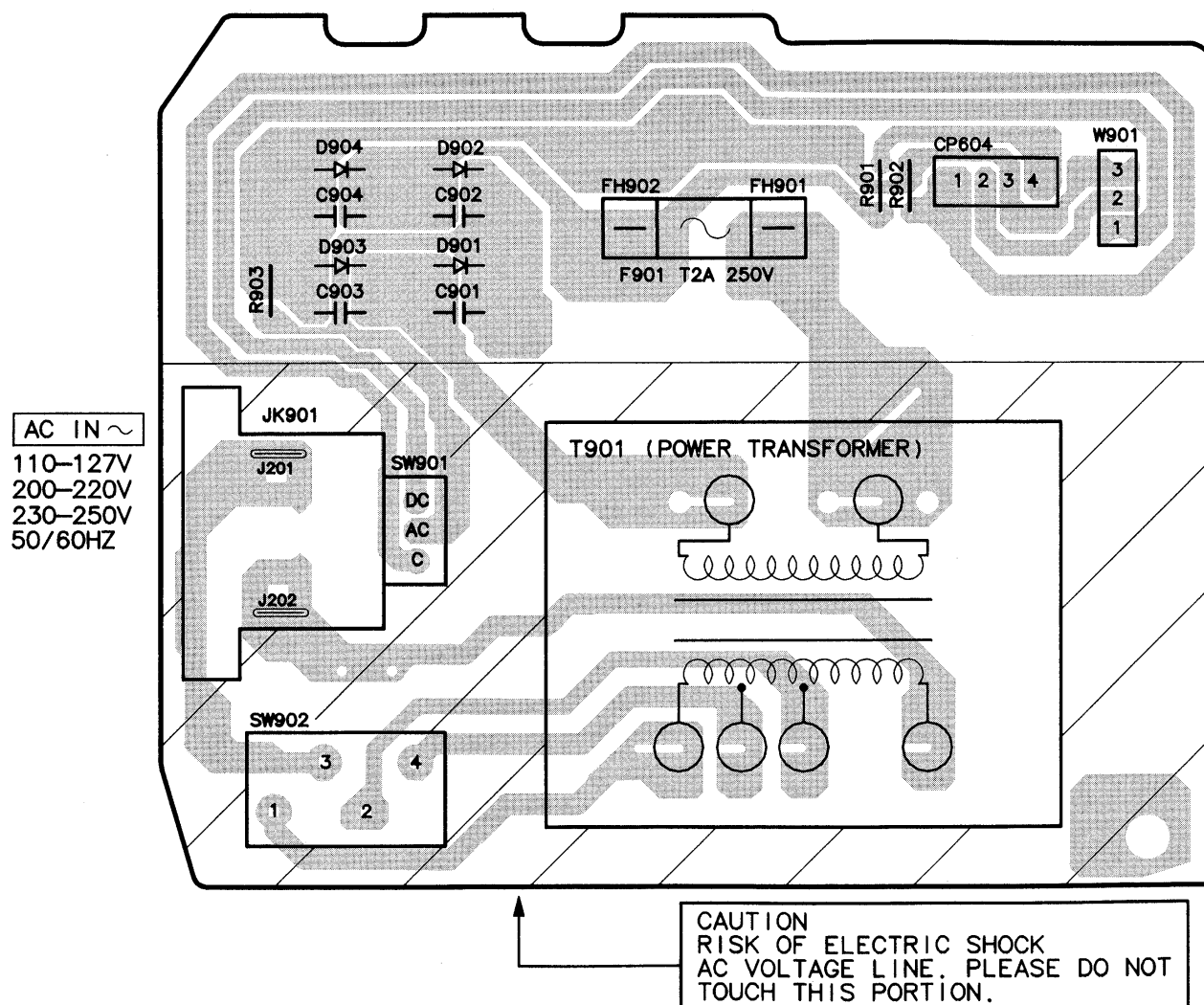
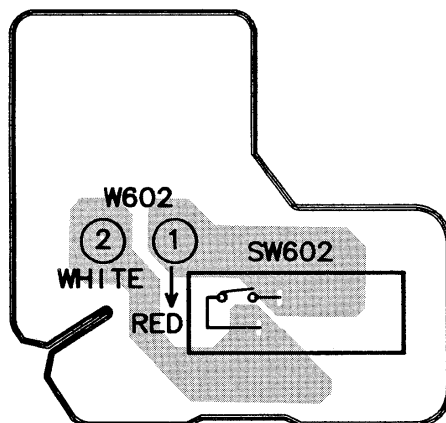
— 9 —

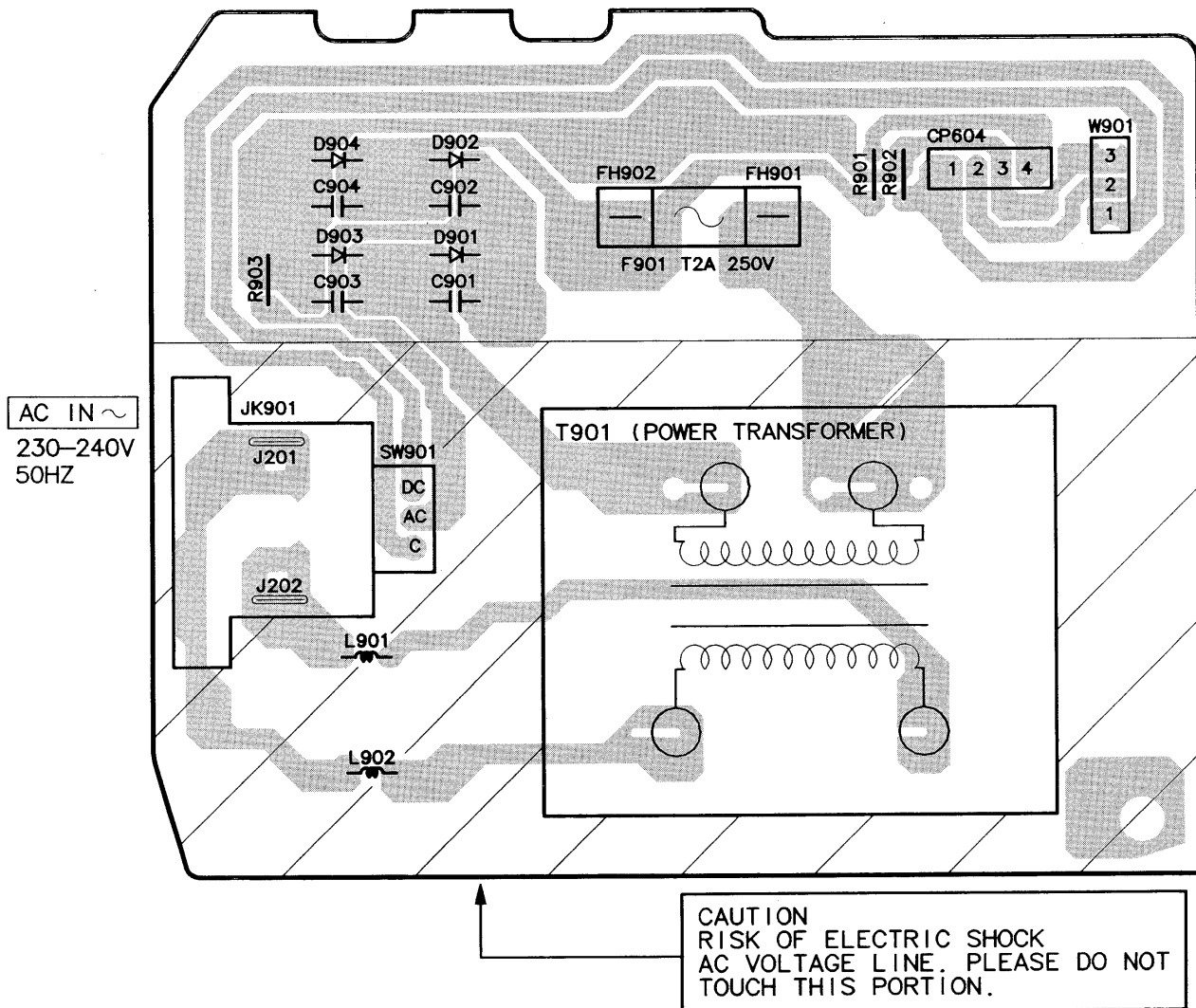
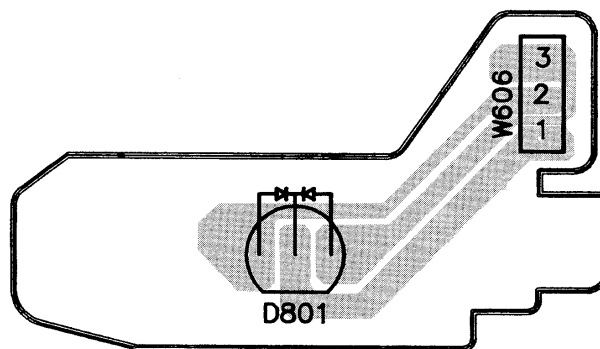
B MAIN P.C.B. (REP2652J ...GN)



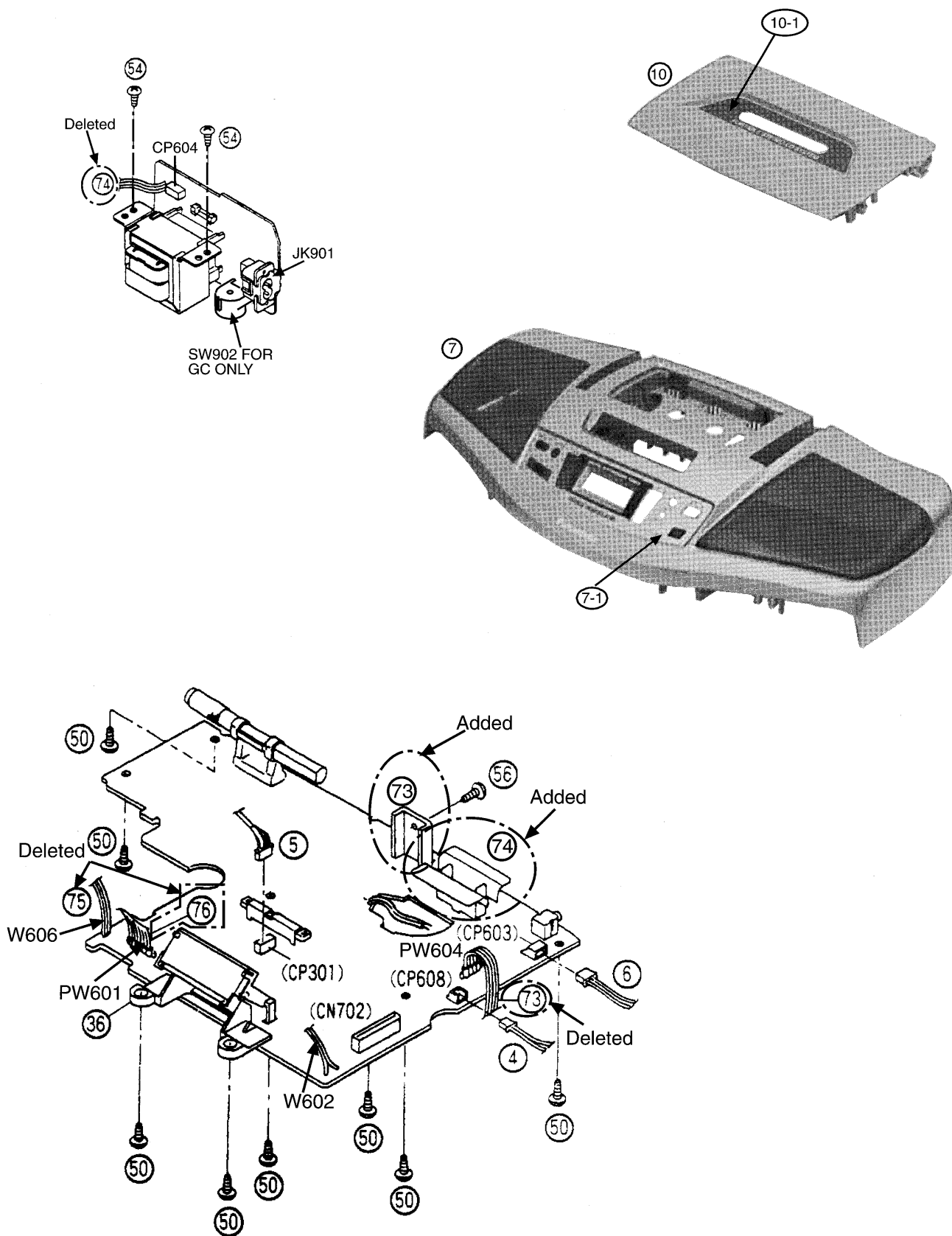


Terminals				Locations			
Ref. No	Loc. No	Ref. No	Loc. No	Ref. No	Loc. No	Ref. No	Loc. No
CN702	B7	IC603	D2	Q301	F6	Q615	F1
CP301	F6	IC604	H3	Q302	F5	Q616	E4
CP603	B2	IC605	C4	Q402	H4	Q617	F2
CP608	B4	IC606	F4	Q404	G2	Q618	F2
CT1	J2	IC607	H1	Q405	G2	Q621	I3
D1	K2	JK601	B1	Q406	E1	Q622	E1
D2	L1	L1	M1	Q409	G4	Q624	F6
D3	L2	L2	M2	Q410	G1	SW301	G5
D601	C7	L3	K1	Q411	F7	T1	M2
D602	D4	L301	F6	Q502	I4	W602	B8
D607	B5	L4	L2	Q504	H3	W605	E4
D608	B5	L401	B6	Q505	H2	W606	I8
D609	H3	L5	K2	Q506	E2	X2	L3
D611	G2	L501	C6	Q509	G4	X3	J3
D613	F1	L6	K2	Q510	H2	X601	C8
D614	F2	L601	G8	Q511	F7	X602	D8
D615	C4	L605	D6	Q601	G8	Z601	E8
D617	I2	L612	C6	Q603	C8		
D618	I3	L613	C6	Q604	C8		
D619	G2	L614	E6	Q605	I7		
D620	B3	L617	D8	Q607	H7		
D625	C2	L623	B6	Q608	B5		
FP601	B2	L626	C3	Q609	C5		
IC1	L3	L7	K3	Q610	B4		
IC2	J3	L8	M1	Q611	C4		
IC301	G6	PW601	H8	Q612	G2		
IC601	D7	PW604	B3	Q613	G2		
IC602	C7	Q1	K4	Q614	F1		

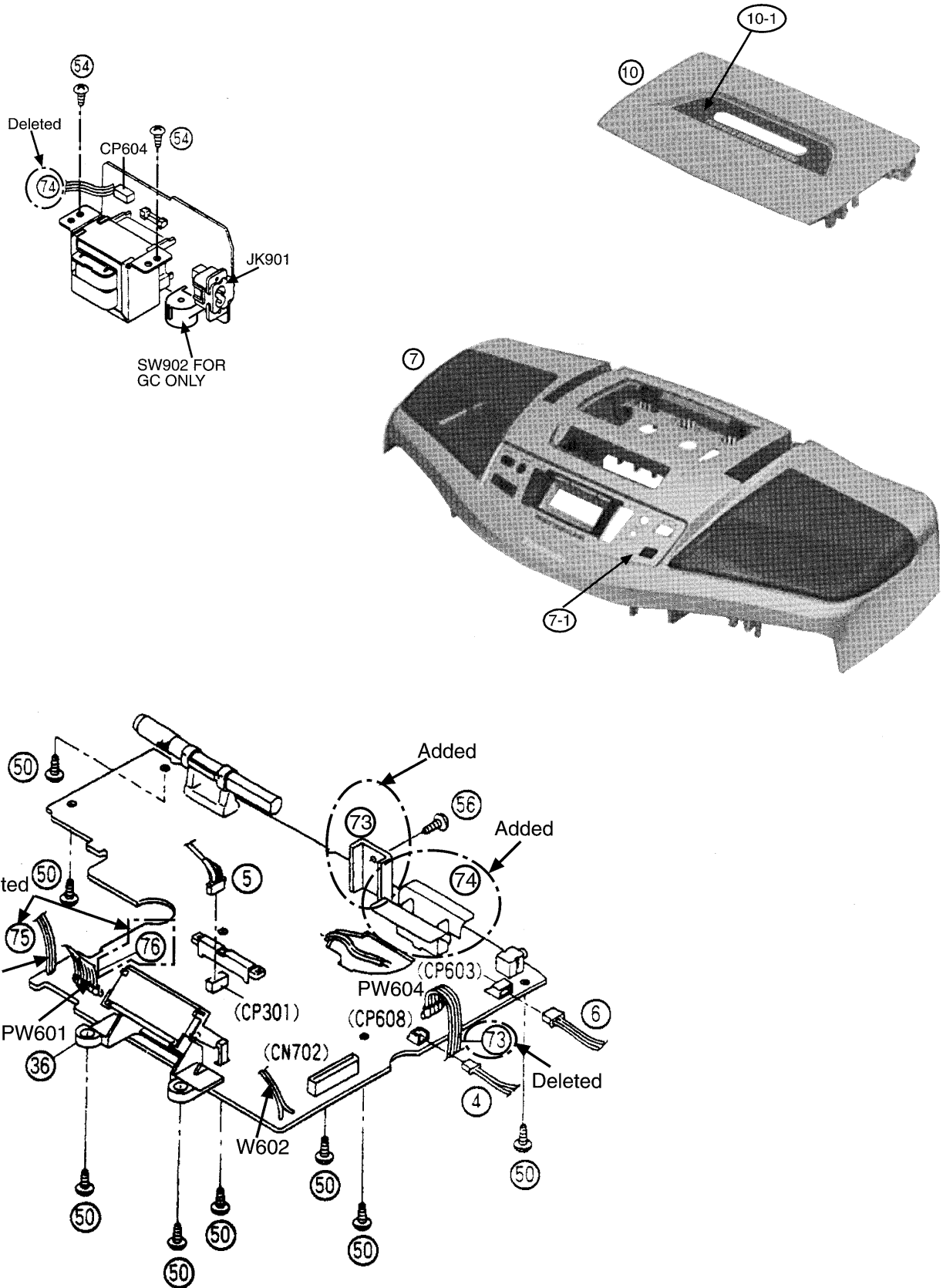
G POWER SUPPLY P.C.B. (REP2652M ... GC)**D SWITCH P.C.B. (REP2652M ... GC) (REP2652J ... GN)**

G POWER SUPPLY P.C.B. (REP2652J ... GN)

E LED P.C.B. (REP2652M ... GC) (REP2652J ... GN)


■ Cabinet Parts Location (Changes shown are compared with the original model RX-DS18 GC/GN)



■ **Cabinet Parts Location** (Changes shown are compared with the original model RX-DS18 GC/GN)



■ Replacement Parts List

Notes: * Important safety notice :
 Components identified by $\triangle$ mark have special characteristics important for safety.
 Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.
 When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.
 * The parenthesized in the Remarks columns specify the areas. (Refer to the cover page for area.)
 Parts without these indication can be used for all areas.
 * [M] in Remarks column indicates parts that are supplied by MESA.
 * **Warning** : This product uses a laser diode. Refer to caution statement.
ACHTUNG : • Die Lasereinheit nicht zerlegen.
 • Die Lasereinheit darf nur gegen eine vom Hersteller spezifizierte Einheit ausgetauscht werden.

Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS		35	RMN0417	REMOCON SHIELD	[M]	74	RMX0039	HEAT SINK	[M]GC
				36	RMN0475	LCD HOLDER	[M]				
1	RAS10P25-H	SPEAKER	[M]	38	RGU1630-S	CD EJ BUTTON	[M]			CASSETTE DECK	
2	RDG0288	DAMPER GEAR	[M]	39	RML0535	CD LOCK LEVER	[M]				
3	REE0842	CD FFC	[M]	40	RGK1008-S	CD TRAY LID	[M]	101	RDV0021	MAIN BELT	[M]
4	REX0905Y	MECHA LEAF SW WIRE.U	[M]	41	SUX102	MECHA ROD	[M]	103	RMB0109-1	BRAKE SPRING	[M]
5	REX0906	MECHA HEAD WIRE UNIT	[M]	42	XEARR210C-Y	R.ANTENNA	[M]	104	RML0116	BRAKE	[M]
6	REX0907	SP-MAIN WIRE UNIT	[M]	43	RMB0566	CD OPEN SPRING	[M]	105	RBR2CY009	ERASE HEAD	[M]
7	RFKXDS19EBS	UPPER CAB. ASS'Y	[M]	44	RMB0567	CD EJ BTN SPR	[M]	106	RDG0057	IDLER GEAR	[M]
7-1	RG0657C-Q	LCD PANEL	[M]	45	RME0267	ASSIST SPRING	[M]	107	RDG0059	FF RELAY GEAR	[M]
8	RFKJXDS19GCS	BOTTOM CAB. ASS'Y	[M]GC	46	RME0268	CD EJ LEVER SPRING	[M]	108	RDK0005	CAM GEAR	[M]
8	RFKJXDS19GNS	BOTTOM CAB. ASS'Y	[M]GN	47	RME0269	DISC HOLD PIECE SPR	[M]	109	RDV0006-1	RF BELT	[M]
8-1	RJC91008	+ BATT. TERMINAL	[M]	48	RMK0388	CD CHASSIS	[M]	110	RHW16009	CAPSTAN WASHER	[M]
8-2	RKA0059-K	LEG RUBBER	[M]	49	RMM0207	CHANGE LEVER	[M]	111	RMA0109	BACK PLATE	[M]
10	RFLXDS19EBS	CASS LID ASS'Y	[M]	50	XTBS26+10J	SCREW	[M]	112	RMB0043-1	ROD OPERATION SPRING	[M]
10-1	RKWX0092-1Q	CASS. PANEL	[M]	51	XTN2+3F	SCREW	[M]	113	RMB0045	AS SPRING	[M]
12	RFXNXDS16EBK	DISC HOLDER ASS'Y	[M]	52	XTV26+6G	SCREW	[M]	114	RMB0046-1	LOCK PLATE SPRING	[M]
13	RGQ0233-K	CD TRAY	[M]	53	XTV3+10G	SP.MOUNTING SCREW	[M]	115	RMB0047	HEAD PANEL SPRING	[M]
14	RGU1631-H	OPR. BUTTON (L)	[M]	54	XTV3+12G	SCREW	[M]	116	RMB0048	IDLER LEVER SPRING	[M]
15	RGU1632-H	OPR. BUTTON (R)	[M]	55	XTV3+20G	CASING SCREW	[M]	117	RMB0053	PAUSE LEVER SPRING	[M]
16	RGK1006-K	DIFFUSER (L)	[M]	56	XTV3+8F	SCREW	[M]	118	RMB0125	BACK TENSION SPRING	[M]
17	RGK1007-K	DIFFUSER (R)	[M]	57	XTWS3+10Q	MECHA SHAFT SCREW	[M]	119	RMC0061	PACK SPRING(OR RUS60	[M]
18	RGZX0025-2H	MECHA BUTTON	[M]	58	XYN3+F12FY	R.ANT SCREW	[M]	120	RFKRCT090P-K	CHASSIS ASS'Y	[M]
19	RKH0042-H	HANDLE	[M]	61	RAE0152Z-M	TRAVERSE	[M]	121	RML0071	SWING LEVER	[M]
20	RKK0073-H	BATTERY COVER	[M]	61-1	SHGD113-1	FLOATING CUSHION	[M]	122	RML0072	AS RELEASE LEVER	[M]
21	RMAX0028	MECHA BRACKET (L)	[M]	61-2	SNSD38	TRV MOTOR ASS'Y SCR	[M]	123	RML0073-1	AS PROTECT LEVER	[M]
22	RMAX0029	MECHA BRACKET (R)	[M]	62	RME0109	FLOATING SPRING B	[M]	124	RML0074	IDLER LEVER	[M]
23	RMB0490	CASS. OPEN SPRING	[M]	63	RME0142	FLOATING SPRING A	[M]	125	RML0076	EJECT SELECTION LEVE	[M]
24	RKT0041-S	PORT (R)	[M]	64	RMS0350	FIXED PIN A	[M]	126	RML0077	LOCK PLATE	[M]
25	RKT0040-S1	PORT (L)	[M]	65	RMS0123-1	FIXED PIN B	[M]	127	RML0078	FUNCTION PLATE	[M]
26	RHD26016	SCREW	[M]	66	RMR0698-K	TRY CHASSIS	[M]	128	RML0080	ERASE HEAD ARM	[M]
27	RMC0355	R/P PLATE	[M]	67	XTN2+6G	PCB SCREW	[M]	129	RML0081-1	RECORD SAFETY LEVER	[M]
28	RGQ0234-K	DISC HOLD PIECE	[M]	68	XTWS26+10Q	PANEL PCB SCREW	[M]	130	RML0082	PAUSE LEVER	[M]
29	RMXX0004	SPACER	[M]	69	RDG0288	DAMPER GEAR	[M]	131	RMM0023	PLAY ROD	[M]
30	RKQ0224-K	HANDLE FIXTURE	[M]	70	RDP0103	ROLLER	[M]	132	RMM0024	REW ROD	[M]
31	RMM0205	UP/DOWN LEVER A	[M]	71	RMQ0649	MECHA BUTTON SUPPORT	[M]	133	RMM0025	FF ROD	[M]
32	RMM0206	UP/DOWN LEVER B	[M]	72	RMR1155-K	CD FIXTURE	[M]	134	RMM0026	STOP ROD	[M]
33	RML0534	R/P LEVER	[M]	73	RMV0189	HEAT SINK	[M]	135	RMM0027	PAUSE ROD	[M]
34	RME0270	R. ANT TERMINAL	[M]	74	RMV0220	HEATSINK	[M]GN	136	RMM0028	REC ROD	[M]

Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks
		COILS & TRANSFORMERS				FUSE HOLDER					
L2	RLQY30S1W	COIL	[M]	FH901	RJR0169T	FUSE HOLDER	[M]				
L3	RLV2C038-0	F. ANT	[M]	FH902	RJR0169T	FUSE HOLDER	[M]				
L4	RLD4Y45W	COIL	[M]								
L6	RL02B130-T	AM OSC COIL	[M]			FUSE PROTECTORS					
L7	RLQZP101KT-Y	AXIAL COIL	[M]								
L8	RLQY30S1W	COIL	[M]	FP601	RSFMB10KT-L	FUSE PROTECTOR	[M] ⚠				
L301	RL09B17-T	COIL	[M]	FP901	RSFMB40KT-L	FUSE PROTECTOR	[M] ⚠				
L401	RL500050T-Y	RF CHOKE COIL	[M]GN								
L501	RL500050T-Y	RF CHOKE COIL	[M]GN			HOLDERS					
L601	RLQZP1R0KT-Y	AXIAL COIL	[M]								
L605	RLQZP1R0KT-Y	AXIAL COIL	[M]	H601A	RJS2A1307	7P CABLE HOLDER	[M]				
L612	RLQZP1R0KT-Y	AXIAL COIL	[M]	H601B	RJS2A1307	7P CABLE HOLDER	[M]				
L613	RLQZP1R0KT-Y	AXIAL COIL	[M]	H604	RJS1A5504	CABLE HOLDER	[M]				
L614	RLQZP1R0KT-Y	AXIAL COIL	[M]								
L617	RLQZP1R0KT-Y	AXIAL COIL	[M]			JACKS					
L623	RL500050T-Y	RF CHOKE COIL	[M]GN								
L626	RLQZP2R2KT-Y	COIL	[M]	JK601	RJJ37TK01-1C	JK	[M]				
L901	RL500050T-Y	RF CHOKE COIL	[M]GN	JK901	RJJ1SE01-1H	JK, AC INLET	⚠ [M]				
L902	RL500050T-Y	RF CHOKE COIL	[M]GN								
T1	RLI2B013-T	AM IFT	[M]GC			WIRES					
T1	RLI2B014-T	AM IFT	[M]GN								
T901	RTP1K1B009-X	TRANSFORMER	⚠ [M]GN	W602	RWJ4202190KK	CD LEAF SW WIRE	[M]				
T901	RTP1K1E009-X	TRANSFORMER	⚠ [M]GC	W605	RWJ0102050KR	MAIN-MECHA MOTOR WIRE	[M]				
				W606	RWJ8203120KK	LED-MAIN WIRE	[M]				
		COMPONENT COMBINATION		W901	RWJ0103170KK	POWER-BATT WIRE	[M]				
				PW601	RWJ8207110RR	MAIN-PANEL WIRE	[M]				
Z601	RSL5196-V	LCD	[M]	PW604	REX0908	POWER-MAIN WIRE UNIT	[M]				
Z801	RCD12042LN	REMOCON SENSOR	[M]								
						PACKING MATERIALS					
		CERAMIC FILTERS									
				P1	RPGX0550	PACKING CASE	[M]				
CF1	RLFFETNL02AL	FM CF	[M]	P2	RPH0131	MIRAMAT SHEET	[M]				
CF3	RLFDFT20AL	FM DISCRIMINATOR	[M]	P3	RPN1111	POLYFOAM	[M]				
		OSCILLATORS				ACCESSORIES					
X2	RSXZ456KM01	19KHZ OSC	[M]	A1	EUR646550	REMOTE CON.	[M]				
X3	RSXC7M20S04T	XTAL 7.2MHZ	[M]	A1-1	UR64EC2112	R/C BATTERY COVER	[M]				
X601	RSXD32K7S02	32.768HKZ X'TAL	[M]	A2	RJA0019-2K	AC CORD (SF)	⚠ [M]GC				
X602	RSXZ4M19D01T	CERAMIC OSC	[M]	A2	RJA0035-X	AC CORD (SF)	⚠ [M]GN				
X701	RSXZ16M9M01T	CERAMIC OSC	[M]	A3	RQT4730-B	O/I BOOK (En)	[M]GN				
				A3	RQT4736-G	O/I BOOK (Sp/Ch/Ar)	[M]GC				
		FUSE		A3	RQT4737-M	O/I BOOK (Sp)	[M]GC				
				A4	RJP1SG04-H	AC PLUG ADAPTOR	[M]GC				
F901	XBA2C20TB0L	FUSE	[M] ⚠								

■ Resistors & Capacitors

- Notes :
- Important safety notice:
Components identified by  mark have special characteristics important for safety.
Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.
When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.
 - The parenthesized in the Remarks columns specify the areas. (Refer to the cover page for area.)
Parts without these indication can be used for all areas.
 - [M] in Remarks column indicates parts that are supplied by MESA.
 - Capacitor values are in microfarad (μF) unless specified otherwise, P=Pico-farads (pF) F=Farads (F)
 - Resistors values are in ohms, unless specified otherwise, 1k=1,000(OHM), 1M=1,000k(OHM)

Ref No.	Part No.	Values & Remarks	Ref No.	Part No.	Values & Remarks	Ref No.	Part No.	Values & Remarks	Ref No.	Part No.	Values & Remarks
	RESISTORS										
R2	ERDS2TJ103T	10K 1/4W [M]	R207	ERDS2TJ682T	6.8K 1/4W [M]	R504	ERDS2TJ682T	6.8K 1/4W [M]	R626	ERDS2TJ106T	10M 1/4W [M]
R3	ERDS2TJ332T	3.3K 1/4W [M]	R208	ERDS2TJ472T	4.7K 1/4W [M]	R506	ERDS2TJ472T	4.7K 1/4W [M]	R627	ERDS2TJ334T	330K 1/4W [M]
R4	ERDS2TJ472T	4.7K 1/4W [M]	R301	ERDS2TJ223T	22K 1/4W [M]	R507	ERDS2TJ104T	100K 1/4W [M]	R628	ERDS2TJ105T	1M 1/4W [M]
R5	ERDS2TJ221T	220 1/4W [M]	R302	ERDS2TJ101T	100 1/4W [M]	R508	ERDS2TJ391T	390 1/4W [M]	R630	ERDS2TJ334T	330K 1/4W [M]
R6	ERDS2TJ104T	100K 1/4W [M]	R303	ERDS2TJ751T	750 1/4W [M]	R509	ERDS2TJ472T	4.7K 1/4W [M]	R636	ERDS2TJ102T	1K 1/4W [M]
R8	ERDS2TJ104T	100K 1/4W [M]	R304	ERDS2TJ563T	56K 1/4W [M]	R511	ERDS2TJ474T	470K 1/4W [M]	R638	ERDS2TJ102T	1K 1/4W [M]
R9	ERDS2TJ104T	100K 1/4W [M]	R305	ERDS2TJ221T	220 1/4W [M]	R512	ERDS2TJ392T	3.9K 1/4W [M]	R639	ERDS2TJ102T	1K 1/4W [M]
R11	ERDS2TJ223T	22K 1/4W [M]	R306	ERDS2TJ100T	10 1/4W [M]	R513	ERDS2TJ681T	680 1/4W [M]	R640	ERDS2TJ472T	4.7K 1/4W [M]
R12	ERDS2TJ103T	10K 1/4W [M]	R307	ERDS2TJ272T	2.7K 1/4W [M]	R515	ERDS2TJ103T	10K 1/4W [M]	R641	ERDS2TJ472T	4.7K 1/4W [M]
R16	ERDS2TJ104T	100K 1/4W [M]	R401	ERDS2TJ103T	10K 1/4W [M]	R516	ERDS2TJ332T	3.3K 1/4W [M]	R642	ERDS2TJ102T	1K 1/4W [M]
R17	ERDS2TJ222T	2.2K 1/4W [M]	R402	ERDS2TJ683T	68K 1/4W [M]	R517	ERDS2TJ105T	1M 1/4W [M]	R643	ERDS2TJ224T	220K 1/4W [M]
R20	ERDS2TJ223T	22K 1/4W [M]	R403	ERDS2TJ562T	5.6K 1/4W [M]	R518	ERDS2TJ103T	10K 1/4W [M]	R646	ERDS2TJ101T	100 1/4W [M]
R21	ERDS2TJ473T	47K 1/4W [M]	R404	ERDS2TJ682T	6.8K 1/4W [M]	R519	ERDS2TJ822T	8.2K 1/4W [M]	R648	ERDS2TJ221T	220 1/4W [M]
R22	ERDS2TJ102T	1K 1/4W [M]	R406	ERDS2TJ472T	4.7K 1/4W [M]	R521	ERDS2TJ102T	1K 1/4W [M]	R649	ERDS2TJ102T	1K 1/4W [M]
R23	ERDS2TJ223T	22K 1/4W [M]	R407	ERDS2TJ104T	100K 1/4W [M]	R522	ERDS2TJ683T	68K 1/4W [M]	R650	ERDS2TJ182T	1.8K 1/4W [M]
R24	ERDS2TJ103T	10K 1/4W [M]	R408	ERDS2TJ391T	390 1/4W [M]	R523	ERDS2TJ682T	6.8K 1/4W [M]	R654	ERDS2TJ332T	3.3K 1/4W [M]
R25	ERDS2TJ223T	22K 1/4W [M]	R409	ERDS2TJ472T	4.7K 1/4W [M]	R524	ERDS2TJ153T	15K 1/4W [M]	R655	ERDS2TJ391T	390 1/4W [M]
R26	ERDS2TJ103T	10K 1/4W [M]	R411	ERDS2TJ474T	470K 1/4W [M]	R525	ERDS2TJ272T	2.7K 1/4W [M]	R656	ERDS2TJ473T	47K 1/4W [M]
R27	ERDS2TJ332T	3.3K 1/4W [M]	R412	ERDS2TJ392T	3.9K 1/4W [M]	R526	ERDS2TJ680T	68 1/4W [M]	R658	ERDS2TJ473T	47K 1/4W [M]
R28	ERDS2TJ223T	22K 1/4W [M]	R413	ERDS2TJ681T	680 1/4W [M]	R527	ERDS2TJ181T	180 1/4W [M]	R660	ERDS2TJ151T	150 1/4W [M]
R29	ERDS2TJ103T	10K 1/4W [M]	R415	ERDS2TJ103T	10K 1/4W [M]	R530	ERDS2TJ221T	220 1/4W [M]	R661	ERDS2TJ181T	180 1/4W [M]
R30	ERDS2TJ472T	4.7K 1/4W [M]	R416	ERDS2TJ332T	3.3K 1/4W [M]	R532	ERDS2TJ682T	6.8K 1/4W [M]	R662	ERDS2TJ103T	10K 1/4W [M]
R31	ERDS2TJ222T	2.2K 1/4W [M]	R417	ERDS2TJ105T	1M 1/4W [M]	R535	ERDS2TJ822T	8.2K 1/4W [M]	R663	ERDS2TJ122T	1.2K 1/4W [M]
R32	ERDS2TJ331T	330 1/4W [M]	R418	ERDS2TJ103T	10K 1/4W [M]	R536	ERDS2TJ103T	10K 1/4W [M]	R665	ERDS2TJ222T	2.2K 1/4W [M]
R91	ERDS2TJ330T	33 1/4W [M]	R419	ERDS2TJ822T	8.2K 1/4W [M]	R550	ERDS2TJ272T	2.7K 1/4W [M]	R666	ERDS2TJ472T	4.7K 1/4W [M]
R92	ERDS2TJ223T	22K 1/4W [M]	R421	ERDS2TJ102T	1K 1/4W [M]	R604	ERDS2TJ153T	15K 1/4W [M]	R667	ERDS2TJ104T	100K 1/4W [M]
R101	ERDS2TJ183T	18K 1/4W [M]	R422	ERDS2TJ683T	68K 1/4W [M]	R605	ERDS2TJ153T	15K 1/4W [M]	R668	ERDS2TJ103T	10K 1/4W [M]
R102	ERDS2TJ272T	2.7K 1/4W [M]	R423	ERDS2TJ682T	6.8K 1/4W [M]	R606	ERDS2TJ153T	15K 1/4W [M]	R669	ERDS2TJ123T	12K 1/4W [M]
R104	ERDS2TJ274T	270K 1/4W [M]	R424	ERDS2TJ153T	15K 1/4W [M]	R607	ERDS2TJ104T	100K 1/4W [M]	R670	ERDS1FVJ1R0T 	1 1/2W [M]
R105	ERDS2TJ680T	68 1/4W [M]	R425	ERDS2TJ272T	2.7K 1/4W [M]	R608	ERDS2TJ334T	330K 1/4W [M]	R671	ERDS2TJ151T	150 1/4W [M]
R106	ERDS2TJ222T	2.2K 1/4W [M]	R426	ERDS2TJ680T	68 1/4W [M]	R609	ERDS2TJ153T	15K 1/4W [M]	R672	ERDS2TJ124T	120K 1/4W [M]
R107	ERDS2TJ682T	6.8K 1/4W [M]	R427	ERDS2TJ181T	180 1/4W [M]	R610	ERDS2TJ152T	1.5K 1/4W [M]GN	R673	ERDS2TJ105T	1M 1/4W [M]
R108	ERDS2TJ472T	4.7K 1/4W [M]	R430	ERDS2TJ221T	220 1/4W [M]	R610	ERDS2TJ682T	6.8K 1/4W [M]GC	R674	ERDS2TJ151T	150 1/4W [M]
R201	ERDS2TJ183T	18K 1/4W [M]	R432	ERDS2TJ682T	6.8K 1/4W [M]	R611	ERDS2TJ223T	22K 1/4W [M]	R675	ERDS2TJ181T	180 1/4W [M]
R202	ERDS2TJ272T	2.7K 1/4W [M]	R435	ERDS2TJ822T	8.2K 1/4W [M]	R613	ERDS2TJ333T	33K 1/4W [M]	R676	ERDS2TJ335T	3.3M 1/4W [M]
R204	ERDS2TJ274T	270K 1/4W [M]	R436	ERDS2TJ103T	10K 1/4W [M]	R614	ERDS2TJ104T	100K 1/4W [M]	R677	ERDS2TJ272T	2.7K 1/4W [M]
R205	ERDS2TJ680T	68 1/4W [M]	R450	ERDS2TJ272T	2.7K 1/4W [M]	R615	ERDS2TJ104T	100K 1/4W [M]	R678	ERDS2TJ103T	10K 1/4W [M]
R206	ERDS2TJ222T	2.2K 1/4W [M]	R501	ERDS2TJ103T	10K 1/4W [M]	R617	ERDS2TJ104T	100K 1/4W [M]	R679	ERDS2TJ153T	15K 1/4W [M]
			R502	ERDS2TJ683T	68K 1/4W [M]	R624	ERDS2TJ472T	4.7K 1/4W [M]	R680	ERDS2TJ103T	10K 1/4W [M]
			R503	ERDS2TJ562T	5.6K 1/4W [M]	R625	ERDS2TJ472T	4.7K 1/4W [M]	R681	ERDS2TJ223T	22K 1/4W [M]

Ref No.	Part No.	Values & Remarks	Ref No.	Part No.	Values & Remarks	Ref No.	Part No.	Values & Remarks	Ref No.	Part No.	Values & Remarks
R682	ERDS2TJ681T	680 1/4W [M]	R745	ERJ6GEYJ155A	1.5M 1/10W[M]	C32	ECBT1H102KB5	1000P50V [M]	C411	ECA1HM010B	1 50V [M]
R683	ERDS2TJ223T	22K 1/4W [M]	R748	ERJ6GEYJ272A	2.7K 1/10W[M]	C33	ECBT1H102KB5	1000P50V [M]	C412	ECFR1C563MR	0.056 16V [M]
R684	ERDS2TJ122T	1.2K 1/4W [M]	R749	ERJ6GEYJ682A	6.8K 1/10W[M]	C34	ECBT1H102KB5	1000P50V [M]	C413	ECFR1C563MR	0.056 16V [M]
R685	ERDS2TJ472T	4.7K 1/4W [M]	R752	ERJ6GEYJ220A	22 1/8W [M]	C35	ECA1CM101B	100 16V [M]	C414	ECA1HM2R2B	2.2 50V [M]
R686	ERDS2TJ472T	4.7K 1/4W [M]	R770	ERJ6GEYJ224A	220K 1/10W[M]	C36	ECA1EM101B	100 25V [M]	C415	ECA1HM2R2B	2.2 50V [M]
R687	ERDS2TJ103T	10K 1/4W [M]	R801	ERDS2TJ152T	1.5K 1/4W [M]	C37	ECBT1C103MS5	0.01 16V [M]	C416	ECBT1H471KB5	470P 50V [M]
R688	ERDS2TJ333T	33K 1/4W [M]	R802	ERDS2TJ222T	2.2K 1/4W [M]	C39	ECBT1H180JC5	18P 50V [M]	C418	ECA1CM101B	100 16V [M]
R689	ERD2FCVG101T	100 1/4W [M]	R803	ERDS2TJ272T	2.7K 1/4W [M]	C40	ECBT1C222MR5	2200P16V [M]	C419	ECQV1H224JZ3	0.22 50V [M]
R690	ERDS2TJ1R5T	1.5 1/4W [M]	R804	ERDS2TJ392T	3.9K 1/4W [M]	C42	ECBT1H330J5	33P 50V [M]	C420	ECA1CM101B	100 16V [M]
R691	ERDS2TJ1R5T	1.5 1/4W [M]	R805	ERDS2TJ562T	5.6K 1/4W [M]	C43	ECBT1H101KB5	100P 50V [M]	C421	ECA1CM471B	470 16V [M]
R693	ERDS2TJ472T	4.7K 1/4W [M]	R806	ERDS2TJ822T	8.2K 1/4W [M]	C44	ECA1HM2R2B	2.2 50V [M]	C423	ECA1CM100B	10 16V [M]
R694	ERDS2TJ121T	120 1/4W [M]	R807	ERDS2TJ153T	15K 1/4W [M]	C45	ECBT1H102KB5	1000P50V [M]	C424	ECA1HM2R2B	2.2 50V [M]
R695	ERDS2TJ471T	470 1/4W [M]	R808	ERDS2TJ333T	33K 1/4W [M]	C48	ECA1HM010B	1 50V [M]	C426	ECA1HM0R1B	0.1 50V [M]
R696	ERDS2TJ101T	100 1/4W [M]	R809	ERDS2TJ823T	82K 1/4W [M]	C49	ECBT1H102KB5	1000P50V [M]	C450	ECBT0J223MS5	0.022 6.3V [M]
R698	ERDS2TJ152T	1.5K 1/4W [M]	R851	ERDS2TJ153T	15K 1/4W [M]	C50	ECBT1H102KB5	1000P50V [M]	C503	ECEA1CKA100B	10 16V [M]
R699	ERDS2TJ562T	5.6K 1/4W [M]	R853	ERDS2TJ472T	4.7K 1/4W [M]	C51	ECA1HM010B	1 50V [M]	C504	ECA1HM010B	1 50V [M]
R701	ERJ6GEYJ4R7A	4.7 1/10W[M]	R857	ERDS2TJ103T	10K 1/4W [M]	C53	ECBT1H102KB5	1000P50V [M]	C505	ECBT1H101KB5	100P 50V [M]
R702	ERJ6GEYJ822A	8.2K 1/10W[M]	R901	ERDS2TJ271T	270 1/4W [M]	C54	ECBT1H102KB5	1000P50V [M]	C506	ECA1HM010B	1 50V [M]
R704	ERJ6GEYJ102A	1K 1/10W[M]	R902	ERDS2TJ683T	68K 1/4W [M]	C91	ECA1HM3R3B	3.3 50V [M]	C509	ECEA1CKA100B	10 16V [M]
R705	ERJ6GEYJ124A	120K 1/10W[M]	R903	ERDS2TJ272T	2.7K 1/4W [M]	C92	ECBT1H331KB5	330P 50V [M]	C510	ECBT1H101KB5	100P 50V [M]
R706	ERJ6GEYJ102A	1K 1/10W[M]				C98	ECBT1H331KB5	330P 50V [M]	C511	ECA1HM010B	1 50V [M]
R707	ERJ6GEYJ474A	470K 1/10W[M]		CAPACITORS		C101	ECBT1C122MR5	1200P16V [M]	C512	ECFR1C563MR	0.056 16V [M]
R708	ERJ6GEYJ154A	150K 1/10W[M]				C102	ECBT1C332MR5	3300P16V [M]	C513	ECFR1C563MR	0.056 16V [M]
R709	ERJ6GEYJ473A	47K 1/10W[M]	C1	ECBT1H470J5	47P 50V [M]	C104	ECBT1H681KB5	680P 50V [M]	C514	ECA1HM2R2B	2.2 50V [M]
R710	ERJ6GEYJ103A	10K 1/10W[M]	C2	ECBT1H100JC5	10P 50V [M]	C106	ECA1CM101B	100 16V [M]	C515	ECA1HM2R2B	2.2 50V [M]
R711	ERJ6GEYJ154A	150K 1/10W[M]	C3	ECFR1C223KR	0.022 16V [M]	C107	ECA1CM100B	10 16V [M]	C516	ECBT1H471KB5	470P 50V [M]
R712	ERJ6GEYJ221A	220 1/10W[M]	C4	ECBT1H102KB5	1000P50V [M]	C108	ECBT0J223MS5	0.022 6.3V [M]	C518	ECA1CM101B	100 16V [M]
R715	ERJ6GEYJ122A	1.2K 1/10W[M]	C5	ECBT1H5R6KC5	5.6P 50V [M]	C201	ECBT1C122MR5	1200P16V [M]	C519	ECQV1H224JZ3	0.22 50V [M]
R717	ERJ6GEYJ102A	1K 1/10W[M]	C6	ECBT1H102KB5	1000P50V [M]	C202	ECBT1C332MR5	3300P16V [M]	C520	ECA1CM101B	100 16V [M]
R718	ERJ6GEYJ102A	1K 1/10W[M]	C7	ECBT1H150JC5	15P 50V [M]	C204	ECBT1H681KB5	680P 50V [M]	C521	ECA1CM471B	470 16V [M]
R719	ERJ6GEYJ102A	1K 1/10W[M]	C8	ECBT1H102KB5	1000P50V [M]	C206	ECA1CM101B	100 16V [M]	C523	ECA1CM100B	10 16V [M]
R720	ERJ6GEYJ102A	1K 1/10W[M]	C9	ECBT1H102KB5	1000P50V [M]	C207	ECA1CM100B	10 16V [M]	C524	ECA1HM2R2B	2.2 50V [M]
R721	ERJ6GEYJ101A	100 1/10W[M]	C10	ECBT1H100JC5	10P 50V [M]	C208	ECBT0J223MS5	0.022 6.3V [M]	C526	ECA1HM0R1B	0.1 50V [M]
R723	ERJ6GEYJ272A	2.7K 1/10W[M]	C12	ECBT1H331KB5	330P 50V [M]	C301	ECA1CM101B	100 16V [M]	C550	ECBT0J223MS5	0.022 6.3V [M]
R724	ERJ6GEYJ333A	33K 1/10W[M]	C13	ECA1CM100B	10 16V [M]	C302	ECA1AM221B	220 10V [M]	C601	ECBT1H561KB5	560P 50V [M]
R725	ERJ6GEYJ122A	1.2K 1/10W[M]	C14	ECBT1H102KB5	1000P50V [M]	C303	ECA1HM2R2B	2.2 50V [M]	C603	ECA1HM010B	1 50V [M]
R727	ERJ6GEYJ682A	6.8K 1/10W[M]	C15	ECFR1C683MR	0.068 16V [M]	C304	ECQP2A102JZT	1000P100V [M]	C605	ECA1HM010B	1 50V [M]
R728	ERJ6GEYJ682A	6.8K 1/10W[M]	C16	ECFR1C823MR	0.082 16V [M]	C305	ECA1CM101B	100 16V [M]	C606	ECBT1H561KB5	560P 50V [M]
R729	ERJ6GEYJ562A	5.6K 1/10W[M]	C17	ECFR1C823MR	0.082 16V [M]	C306	ECBT1C822MS5	8200P16V [M]	C607	ECBT1H101KB5	100P 50V [M]
R731	ERJ6GEYJ123A	12K 1/10W[M]	C18	ECFR1C333MR	0.033 16V [M]	C307	ECBT1C103MS5	0.01 16V [M]	C609	ECBT1H101KB5	100P 50V [M]
R734	ERJ6GEYJ101A	100 1/10W[M]	C19	ECFR1C333MR	0.033 16V [M]	C310	ECQP2A151JZT	150P 100V [M]	C615	ECBT1H180JC5	18P 50V [M]
R735	ERJ6GEYJ101A	100 1/10W[M]	C20	ECA1HM010B	1 50V [M]	C311	ECBT1C103MS5	0.01 16V [M]	C616	ECBT1H220JC5	22P 50V [M]
R736	ERJ6GEYJ101A	100 1/10W[M]	C21	ECA1HM010B	1 50V [M]	C403	ECEA1CKA100B	10 16V [M]	C617	ECBT1H102KB5	1000P50V [M]
R738	ERJ6GEYJ223A	22K 1/10W[M]	C22	ECA1HM4R7B	4.7 50V [M]	C404	ECA1HM010B	1 50V [M]	C618	ECBT1H102KB5	1000P50V [M]
R741	ERJ6GEYJ562A	5.6K 1/10W[M]	C23	ECFR1C333MR	0.033 16V [M]	C405	ECBT1H101KB5	100P 50V [M]	C619	ECBT1H102KB5	1000P50V [M]
R742	ERJ6GEYJ562A	5.6K 1/10W[M]	C24	ECFR1C333MR	0.033 16V [M]	C406	ECEA1HKA010B	1 50V [M]	C620	ECBT1H820KB5	82P 50V [M]
R743	ERJ6GEYJ562A	5.6K 1/10W[M]	C30	ECBT1H331KB5	330P 50V [M]	C409	ECA1CM100B	10 16V [M]	C621	ECBT1H101KB5	100P 50V [M]
R744	ERJ6GEYJ104A	100K 1/10W[M]	C31	ECBT1C103MS5	0.01 16V [M]	C410	ECBT1H101KB5	100P 50V [M]	C622	ECBT1H102KB5	1000P50V [M]

Ref No.	Part No.	Values & Remarks	Ref No.	Part No.	Values & Remarks	Ref No.	Part No.	Values & Remarks	Ref No.	Part No.	Values & Remarks
C623	ECA1CM101B	100 16V [M]	C731	ECEA0JKA221I	220 6.3V [M]	RJ726	ERJ6GEY0R00A	0 1/10W [M]			
C624	ECBT1H680J5	68P 50V [M]	C732	ECEA0JKA221I	220 6.3V [M]	RJ727	ERJ6GEY0R00A	0 1/10W [M]			
C625	ECBT1H820KB5	82P 50V [M]	C733	ECUZ1E104MBN	0.1 25V [M]	RJ728	ERJ6GEY0R00A	0 1/10W [M]			
C626	ECBT1H470J5	47P 50V [M]	C734	ECEA1AKA221I	220 10V [M]	RJ750	ERJ6GEY0R00A	0 1/10W [M]			
C628	ECA1CM101B	100 16V [M]	C735	ECUZ1E104ZFN	0.1 25V [M]						
C629	ECA1CM101B	100 16V [M]	C736	ECUZ1E104ZFN	0.1 25V [M]		TEST JUMPERS				
C631	ECBT1H470J5	47P 50V [M]	C737	ECUZ1E104ZFN	0.1 25V [M]						
C632	ECA1CM101B	100 16V [M]	C738	ECUZ1E104MBN	0.1 25V [M]	TJ701	EYF8CU	TEST JUMPER[M]			
C633	ECA1CM100B	10 16V [M]	C739	ECUZ1H103KBN	0.01 50V [M]						
C637	ECA1CM331B	330 16V [M]	C742	ECUZ1E273KBN	0.027 25V [M]						
C638	ECA1HMR47B	0.47 50V [M]	C743	ECUZ1E104ZFN	0.1 25V [M]						
C640	ECA1CM220B	20 16V [M]	C744	ECUZ1E123KBN	0.012 25V [M]						
C641	ECA1CM101B	100 16V [M]	C745	ECUZ1C473KBN	0.047 16V [M]						
C642	ECA1CM101B	100 16V [M]	C747	ECUV1H221KBN	220P 50V [M]						
C643	ECA1CM220B	20 16V [M]	C749	ECUZ1H222KBN	2200P50V [M]						
C644	ECA1CM100B	10 16V [M]	C750	ECUZ1E104MBN	0.1 25V [M]						
C645	ECA1VM221B	220 35V [M]	C751	ECUZ1E104MBN	0.1 25V [M]						
C646	ECBT1H330J5	33P 50V [M]	C752	ECUZ1H102KBN	1000P50V [M]						
C648	ECBT1H330J5	33P 50V [M]	C753	ECUZ1H471KBM	470P 50V [M]						
C650	ECBT1H330J5	33P 50V [M]	C754	ECUZ1H471KBN	470P 50V [M]						
C653	ECA1HM100B	10 50V [M]	C761	ECUZ1H471KBN	470P 50V [M]						
C654	ECBT1H102KB5	1000P50V [M]	C762	ECUZ1H471KBN	470P 50V [M]						
C655	ECBT1C103MS5	0.01 16V [M]	C851	ECBT1H101KB5	100P 50V [M]						
C657	ECA1EM222E 	2200 25V [M]	C852	ECBT1H100JC5	10P 50V [M]						
C701	ECEA0JKA330I	33 6.3V [M]	C854	ECBT1H102KB5	1000P50V [M]						
C702	ECUZ1E104MBN	0.1 25V [M]	C860	ECBT1H101KB5	100P 50V [M]						
C703	ECEA0JKA101I	100 6.3V [M]	C901	ECKR2H103ZF5	0.01 500V [M]						
C704	ECUZ1E104MBN	0.1 25V [M]	C902	ECKR2H103ZF5	0.01 500V [M]						
C706	ECUZ1H272KBN	2700P50V [M]	C903	ECKR2H103ZF5	0.01 500V [M]						
C707	ECUZ1E273KBN	0.027 25V [M]	C904	ECKR2H103ZF5	0.01 500V [M]						
C710	ECUV1H151KCN	150P 50V [M]									
C711	ECUZ1E104ZFN	0.1 25V [M]		CHIP JUMPER							
C712	ECUZ1E104ZFN	0.1 25V [M]									
C713	ECUZ1E104MBN	0.1 25V [M]	RJ701	ERJ6GEY0R00A	0 1/10W [M]						
C714	ECEA0JKA101I	100 6.3V [M]	RJ702	ERJ8GEY0R00A	0 1/8W [M]						
C715	ECUZ1H182KBN	1800P50V [M]	RJ703	ERJ8GEY0R00A	0 1/8W [M]						
C716	ECUZ1H821KBN	820P 50V [M]	RJ704	ERJ8GEY0R00A	0 1/8W [M]						
C717	ECUZ1E104ZFN	0.1 25V [M]	RJ705	ERJ8GEY0R00A	0 1/8W [M]						
C718	ECUZ1C224KBN	0.22 16V [M]	RJ706	ERJ8GEY0R00A	0 1/8W [M]						
C721	ECUZ1H150JCN	15P 50V [M]	RJ707	ERJ8GEY0R00A	0 1/8W [M]						
C722	ECUZ1H150JCN	15P 50V [M]	RJ708	ERJ8GEY0R00A	0 1/8W [M]						
C723	ECEA1AKA221I	220 10V [M]	RJ709	ERJ8GEY0R00A	0 1/8W [M]						
C724	ECUZ1E104MBN	0.1 25V [M]	RJ710	ERJ8GEY0R00A	0 1/8W [M]						
C725	ECUZ1H102KBN	1000P50V [M]	RJ721	ERJ6GEY0R00A	0 1/10W [M]						
C726	ECUZ1H102KBN	1000P50V [M]	RJ722	ERJ6GEY0R00A	0 1/10W [M]						
C727	ECA1HAK010XI	1 50V [M]	RJ723	ERJ6GEY0R00A	0 1/10W [M]						
C728	ECA1HAK010XI	1 50V [M]	RJ724	ERJ6GEY0R00A	0 1/10W [M]						
C730	ECUZ1E104ZFN	0.1 25V [M]	RJ725	ERJ6GEY0R00A	0 1/10W [M]						