

Service Manual

Portable Stereo Component System

Radio Cassette
RX-CS730



Colour

(K) Black Type

Area

Suffix for Model No.	Area	Colour
(GU)	Asia, Latin America, Middle East and Africa.	(K)
(GC)	Saudi Arabia, Kuwait, Singapore, Malaysia.	

TAPE SECTION : SG20 MECHANISM SERIES

■ Specifications

■ RADIO

Frequency range	
FM	88 - 108 MHz
MW	530 - 1605 MHz
SW1	2.3 - 7.0 MHz
SW2	7.0 - 22.0 MHz
Intermediate frequency	
FM	10.7 MHz
AM	455 kHz
Sensitivity	
FM	17 dB / 50 mW
MW	54 dB / 50 mW
SW1	35 dB / 50 mW
SW2	17 dB / 50 mW

■ TAPE RECORDER

Track system	4 track, 2 channel, stereo
Recording system	AC bias
Erasing system	Magnet
Monitor system	Variable sound monitor
Frequency range	
Normal	60 - 14000 Hz

■ GENERAL

Power requirement	
AC	110-127 V / 220-240 V, 50 / 60 Hz
	Power consumption : 17 W
Battery	12 V (Eight R20 / LR20, D, UM-1 batteries)
	■ Do not use rechargeable type batteries.
DC IN	12 - 13.2 V
Power output	90 W ...PMPO
	27 W ... RMS (max.)
Speakers	2 Woofers ; 12 cm
	2 Tweeters ; 1.5 cm
Jacks	
Output	SPEAKERS : 8 Ω
	Headphones ; 32 Ω
Dimensions (WxHxD)	581 x 255 x 221 mm
	Main unit ; 261 x 255 x 221 mm
	Speaker box ; 169 x 224 x 204 mm
Weight	4.8 kg without batteries

Notes :

Specifications are subject to change without notice.
Weight and dimensions are approximate.

⚠ WARNING

This service information is designed for experience 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.

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■ BEFORE USE

[FOR (GC) area]

Be sure to disconnect the mains cord before adjusting the voltage selector.

Use a minus(-) screwdriver to set the voltage selector (on the rear panel) to the voltage setting for the area in which the unit will be used. (If the power supply in your area is 117V or 120V, set to the "127V" position.)

Note that this unit will be seriously damaged if this setting is not made correctly. (There is no voltage selector for some countries; the correct voltage is already set.)

■ Operation Checks

" **ATTENTION SERVICER** " Some chassis component may have sharp edges. Be careful when disassembling and servicing.

1. This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.
2. For reassembly after operation checks or replacement, reverse the respective procedures. Special reassembly procedures are described only when required.
3. Select items from the following index when checks or replacement are required.

• Contents

• Disassembly of the Front Cabinet	page
• Checking Procedure for Main, Panel, Mechanism, Power And Battery P.C.B	2
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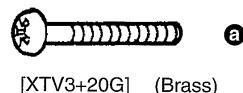
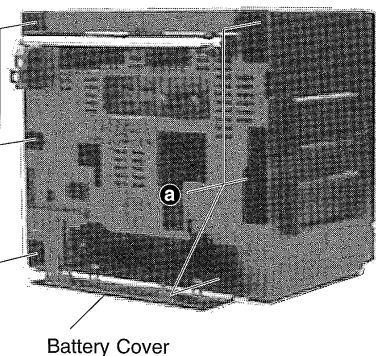
■ Disassembly Of The Front Cabinet

Step 1

Remove the battery Cover.

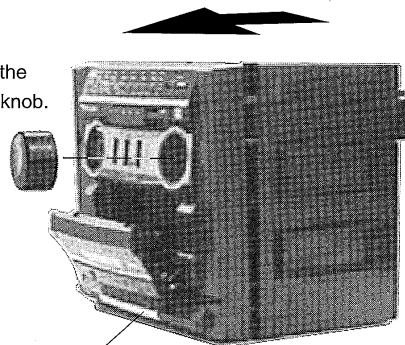
Step 2

a x 6



Step 3

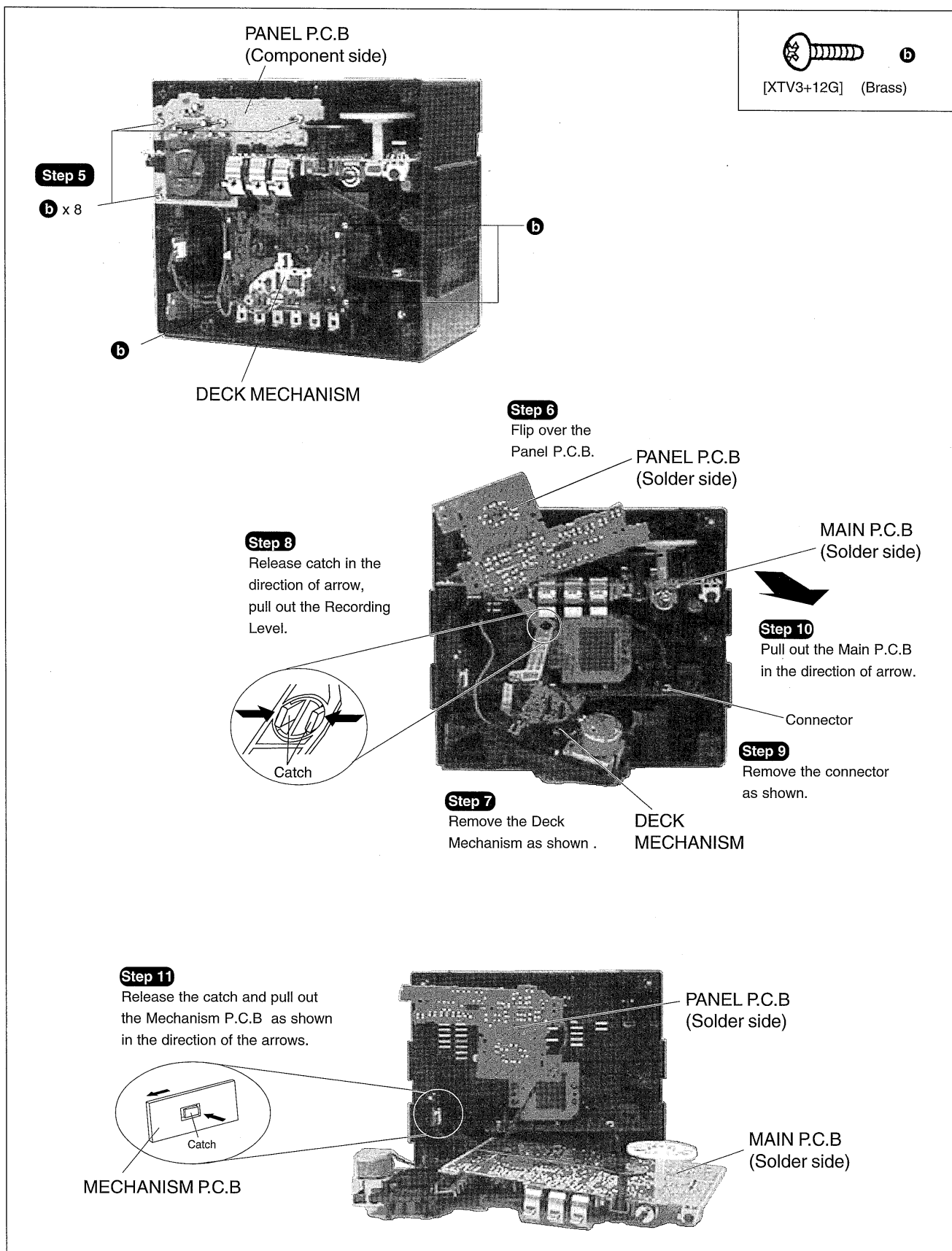
Pull out the Volume knob.

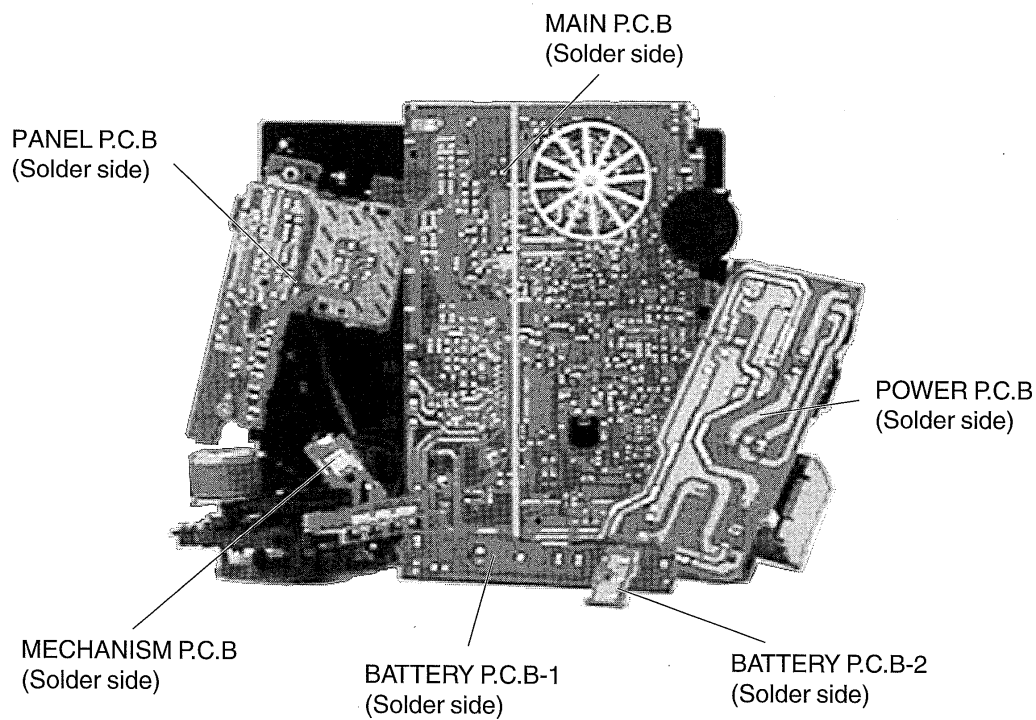
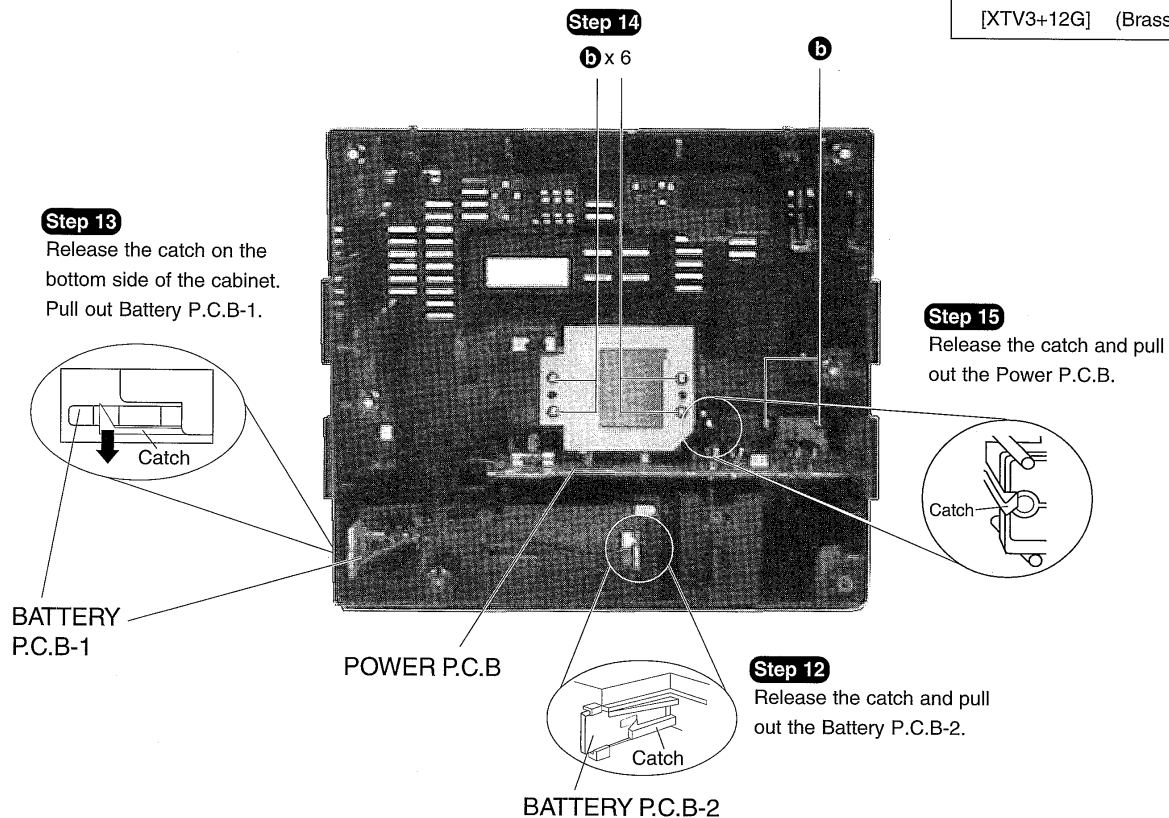


Step 4

Press the Eject button and remove the front cabinet in the direction of the arrow shown.

■ Checking Procedure For Main, Panel, Mechanism And Power P.C.B.





■ Measurements and Adjustments

● Tuner Section

● ALIGNMENT INSTRUCTIONS

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT	
1. Set power source voltage to 12V DC.	5. Set FM MODE/BP switch to MONO/I.
2. Set volume control to maximum.	6. Set FINE TUNING to center.
3. Set band switch to FM, MW, SW1 or SW2.	7. Output of signal generator should be no higher than necessary to obtain an output reading.
4. Set selector switch to RADIO.	

● AM - IF ALIGNMENT

SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLTMETER or OSCILLOSCOPE)	ADJUSTMENT (Shown in Fig.1)	REMARKS
CONNECTIONS	FREQUENCY				
Fashion a loop of several turns of wire and radiate signal into loop of receiver.	455 kHz 30% Mod. at 400Hz	Point of non-interference.(on/about 600kHz)	Headphone Jack (32Ω) (Fabricate the plug as shown in Fig.2 and then connect the lead wires of the plug to the measuring instrument.)	T2 (AM IFT)	Adjust for maximum output.

● MW - RF ALIGNMENT

"	(GU).....511 kHz (GC).....514 kHz ± 3 kHz	Tuning capacitor fully closed.	"	L8 (MW OSC. Coil)	Adjust for maximum output.
"	(GU).....1650 kHz (GC).....1639 kHz ± 5 kHz	Tuning capacitor fully opened.	"	CT3 (MW ANT. Trimmer)	Adjust for maximum output.
"	550 kHz	Tune to signal	"	[*1] L3-1 (MW ANT. Coil)	Adjust for maximum output. Adjust L3-1 by moving coil bobbin along the ferrite core.
"	1500 kHz	Tune to signal	"	CT2 (MW ANT. Trimmer)	Adjust for maximum output.

[*1] Fix antenna coil with wax after completing alignment.

● SW1 - RF ALIGNMENT

"	2.249 MHz	Tuning capacitor fully closed.	"	L9 (SW1 OSC. Coil)	Adjust for maximum output.
"	7.231 MHz	Tuning capacitor fully opened.	"	VC1-3 (SW1 ANT. VC1)	Adjust for maximum output.
"	2.3 MHz	Tune to signal	"	[*1] L3-2 (SW1 ANT. Coil)	Adjust for maximum output. Adjust L3-2 by moving coil bobbin along the ferrite core.
"	7.0 MHz	Tune to signal	"	VC1-4 (SW1 ANT. VC1)	Adjust for maximum output.

[*1] Fix antenna coil with wax after completing alignment.

● SW2 - RF ALIGNMENT

SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLTMETER or OSCILLOSCOPE)	ADJUSTMENT (Shown in Fig.1)	REMARKS
CONNECTIONS	FREQUENCY				
Connect to test point TP1 through ceramic capacitor (10pF). Negative side to test point TP2 .	6.84 MHz	Tuning capacitor fully closed.	Headphone Jack (32Ω) (Fabricate the plug as shown in Fig.2 and then connect the lead wires of the plug to the measuring instrument.)	L10 (SW2 OSC. Coil)	Adjust for maximum output.
	22.80 MHz	Tuning capacitor fully opened.	"	CT5 (SW2 OSC. Trimmer)	Adjust for maximum output.
	7.0 MHz	Tune to signal	"	L7 (SW2 ANT. Coil)	Adjust for maximum output.

● FM - IF ALIGNMENT

Connect to test point TP1 through ceramic capacitor. Negative side to test point TP2 .	10.7 MHz (Sweep)	Point of non-interference.(on/ about 90MHz)	Connect vert. amp. of scope to test point TP3 . Negative side to test point TP4 .	T1 (FM 1st IFT)	Waveform is shown in Fig. 3.
"	"	"	"	T3 (FM 2nd IFT)	Waveform is shown in Fig. 4.

● FM - RF ALIGNMENT

Connect to test point TP1 through FM dummy antenna. Negative side to test point TP2 .	(GU)....86.2 MHz (GC)....87.35 MHz ± 50 kHz	Variable capacitor fully closed.	Headphone Jack (32Ω) (Fabricate the plug as shown in Fig.2 and then connect the lead wires of the plug to the measuring instrument.)	L2 (FM OSC. Coil)	Adjust for maximum output. [*2]
	(GU)....109.2 MHz (GC)....108.3 MHz ± 70 kHz	Variable capacitor fully opened.	"	VC1-1 (FM OSC. VC1)	"
	106 MHz	Tune to signal	"	VC1-2 (FM ANT. VC1)	Adjust for maximum output.

[*2] three output responses will be present; proper tuning is the center frequency.

● Cassette Deck Section

● ALIGNMENT INSTRUCTIONS

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT	
Measuring Instruments Digital frequency counter	Measuring Conditions - Make sure the heads are clean. - Make sure the capstan and pressure rollers are clean.
Test Tape Tape speed adjustment (3 kHz, - 10 dB) : QZZCWAT	
Note : No Azimuth Head Alignment is required due to Aztec Head is used in the cassette mechanism.	

● TAPE SPEED ALIGNMENT

TEST TAPE	EQUIPMENT CONNECTION ELECTRONIC COUNTER	ADJUSTMENT	SPECIFICATION	REMARKS
QZZCWAT	Headphone Jack (32Ω) (Fabricate the plug as shown in Fig.2 and then connect the lead wires of the plug to the measuring instrument.)	Motor VR (As shown in Fig. 5)	3000 ± 90 Hz	1. Set the unit to 'TAPE' position. 2. Playback the middle part of the test tape (QZZCWAT). 3. Adjust motor VR for output of 3000 ± 90 Hz shown on frequency counter.

● ALIGNMENT POINTS

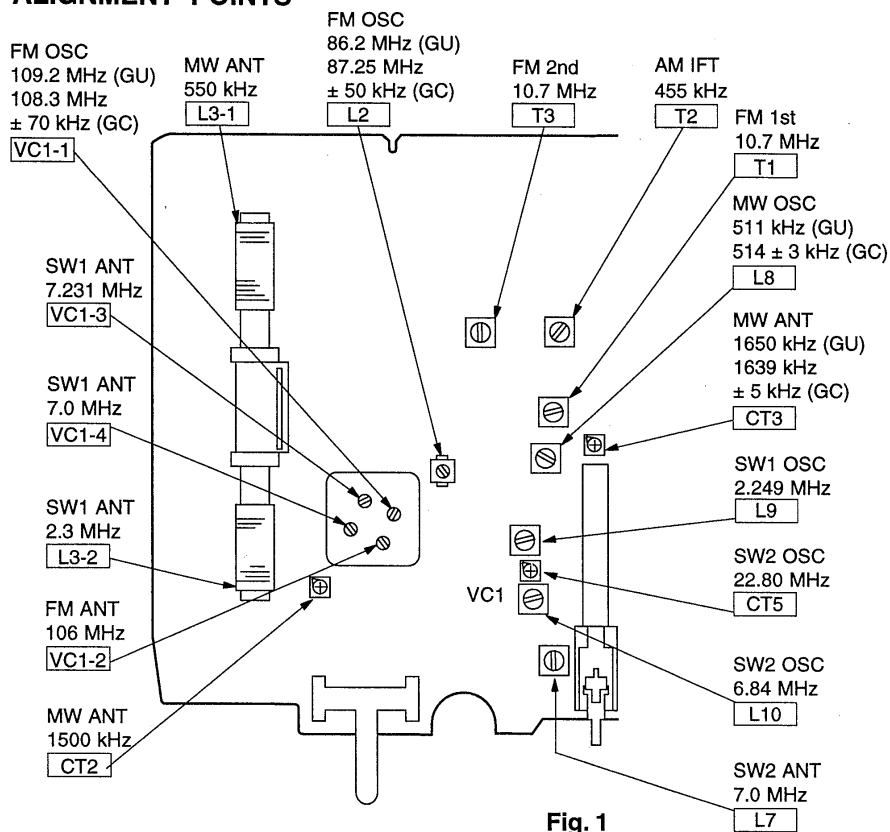


Fig. 1

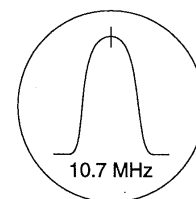


Fig. 3

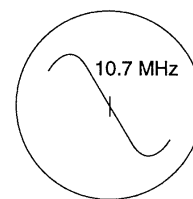


Fig. 4

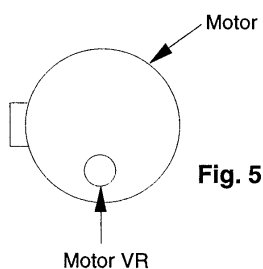


Fig. 5

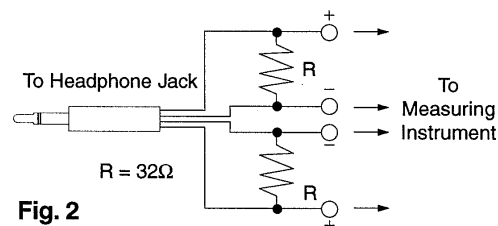
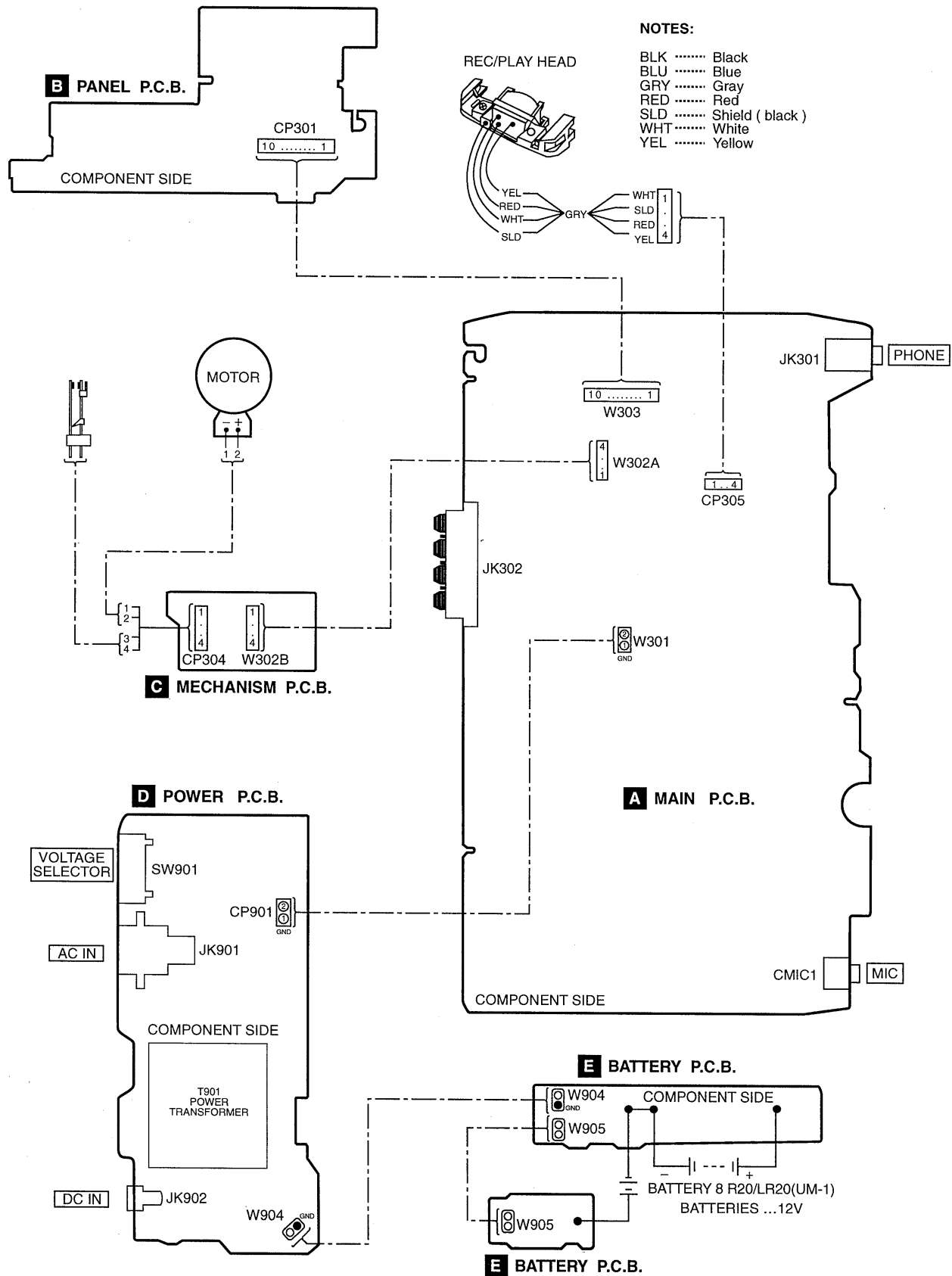


Fig. 2

■ Terminal Guide of IC's , Transistors and Doides

BA3313L 	LA1805 	CXA2513M 	LA4625 	2SA564RTA 2SC1684STA 2SC2001LTA 2SC829BTA 2SD592AQRSTA
2SD1450STA BA1L4MTA 	1N5402BM21 	RVD1SS133TA 	SLR325VCT31 SLR325DCT31 SLR325MCT31 	MTZJ3R3BTA MTZJ6R8BTA MTZJ9R1BTA RB441QT-77

■ Wiring Connection Diagram



■ Schematic Diagram

(All schematic diagrams may be modified at any time with the development of new technology)

Note :

- | | | | | | |
|--------|---|---------------------------------|---------|---|-------------------------|
| • S352 | : | Preset equalizer switch (VOCAL) | • SW3 | : | BAND select switch |
| • S353 | : | Preset equalizer switch (FLAT) | • SW4 | : | R/P switch |
| • S354 | : | Preset equalizer switch (CLEAR) | • SW5 | : | FM MODE/BP switch |
| • S355 | : | Preset equalizer switch (SOFT) | • SW901 | : | Voltage selector switch |
| • S356 | : | Preset equalizer switch (XBS) | • VR301 | : | Volume control VR. |
| • SW1 | : | SELECTOR switch | | | |

• Battery current :

Vol. min.390 mA (FM)
390 mA (AM)
458 mA (TAPE)

Vol. max. 683 mA (FM)
685 mA (AM)
872 mA (TAPE)

Measurement Instruction

(AM : 74 dB/m , 30% Mod.
FM : 60 dB/m , 30% Mod.
TAPE : 315 Hz , 0 dB)

• Signal line

 : +B line

 : Main signal line

 : Record signal line

 : AM signal line

 : AM OSC signal line

 : FM/AM signal line

 : FM signal line

 : FM OSC signal line

 : Playback signal line

- The voltage value and waveforms are the reference voltage of this unit measured by DC electronic voltmeter (high impedance) and oscilloscope on the basis of chassis. Accordingly, there may arise some error in voltage values and waveforms depending upon the internal impedance of the tester or the measuring unit.

() AM, < > FM No mark Playback position, << >> Record position

• Importance 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.

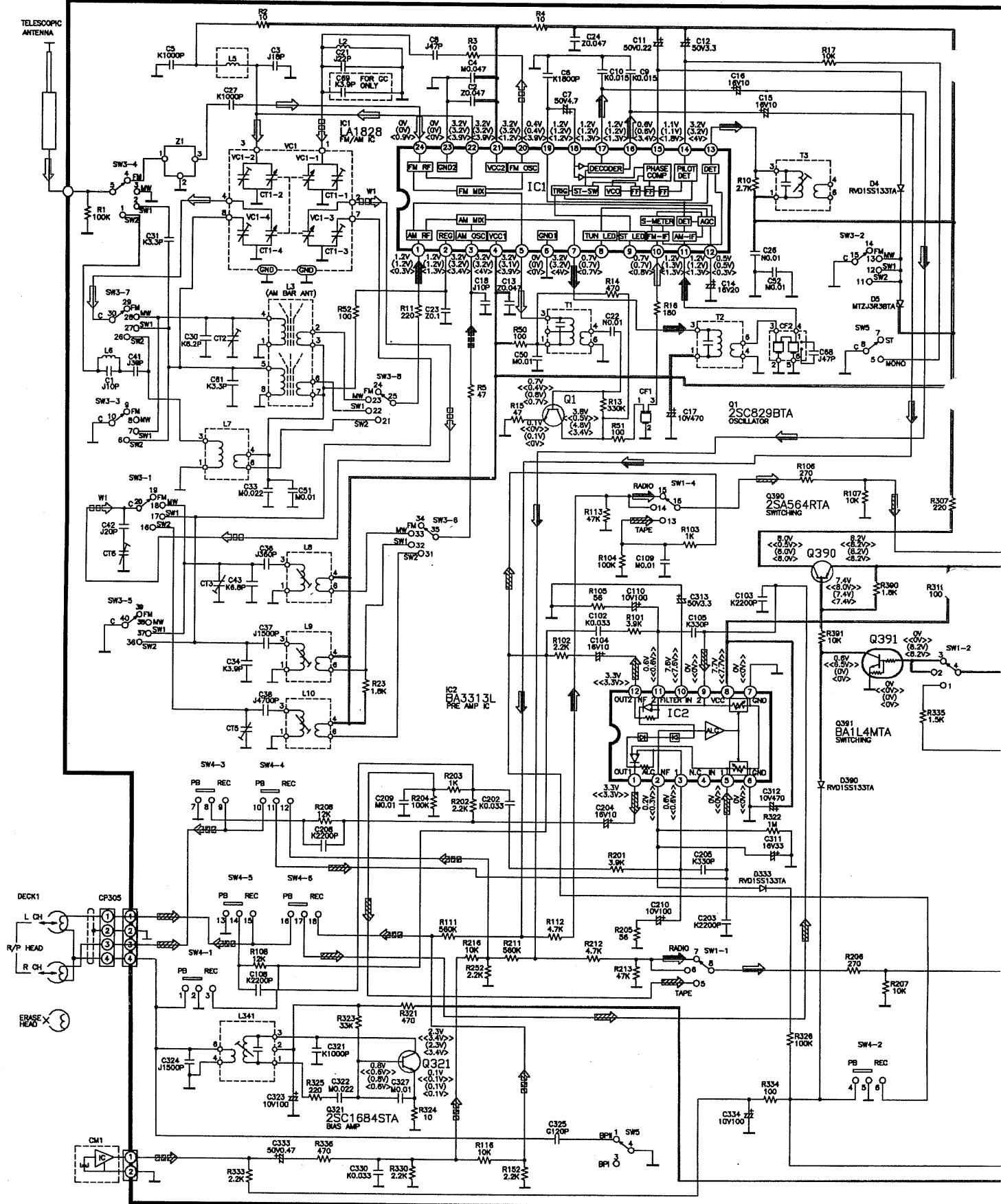
Caution !

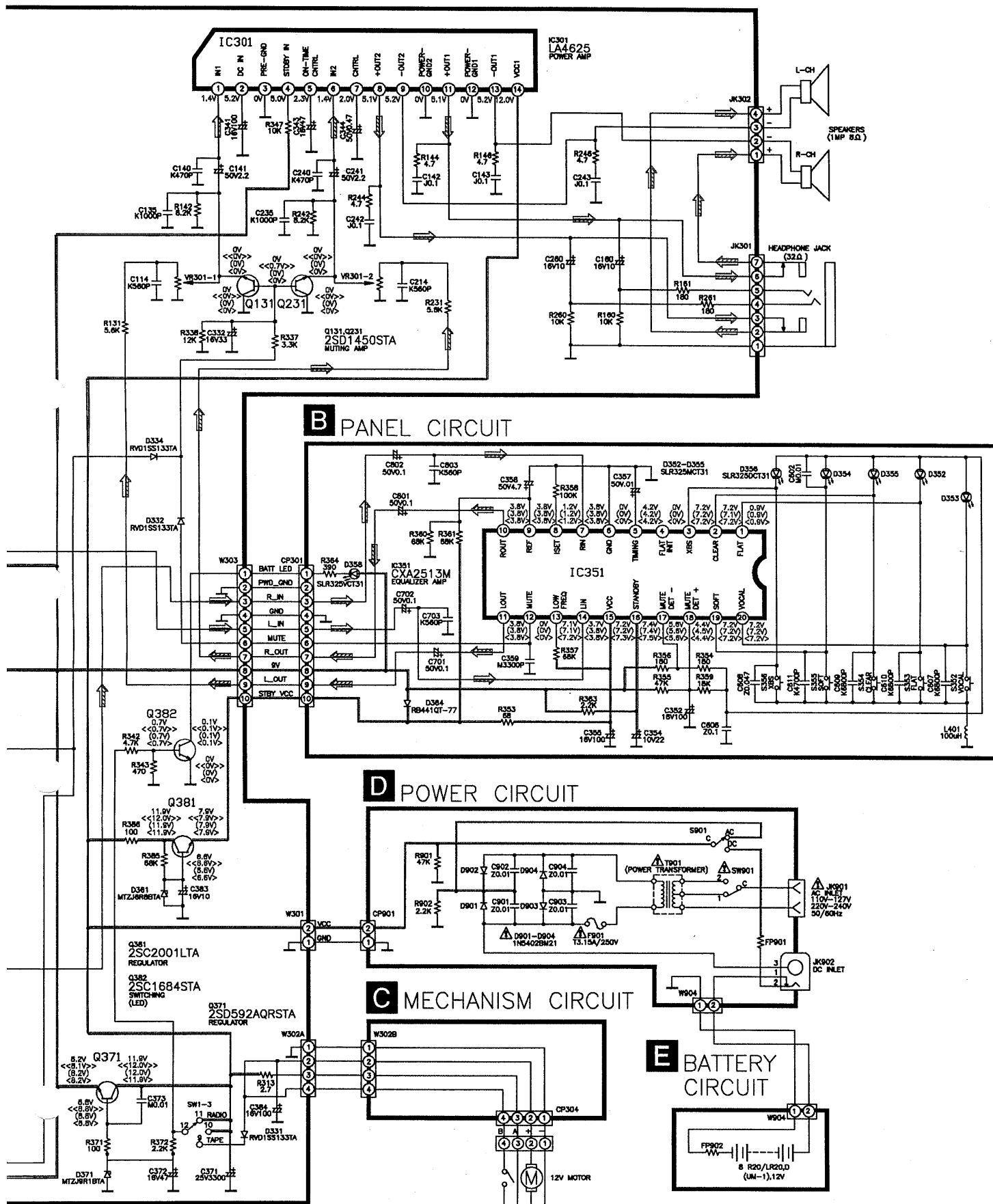
IC, LSI and VLSI are sensitive to static electricity.

Secondary trouble can be prevented by taking care during repair.

- Cover the parts boxes made of plastics with aluminium foil.
- Ground the soldering iron.
- Do not touch the pins of IC, LSI or VLSI with fingers directly.
- Put a conductive mat on the work table.

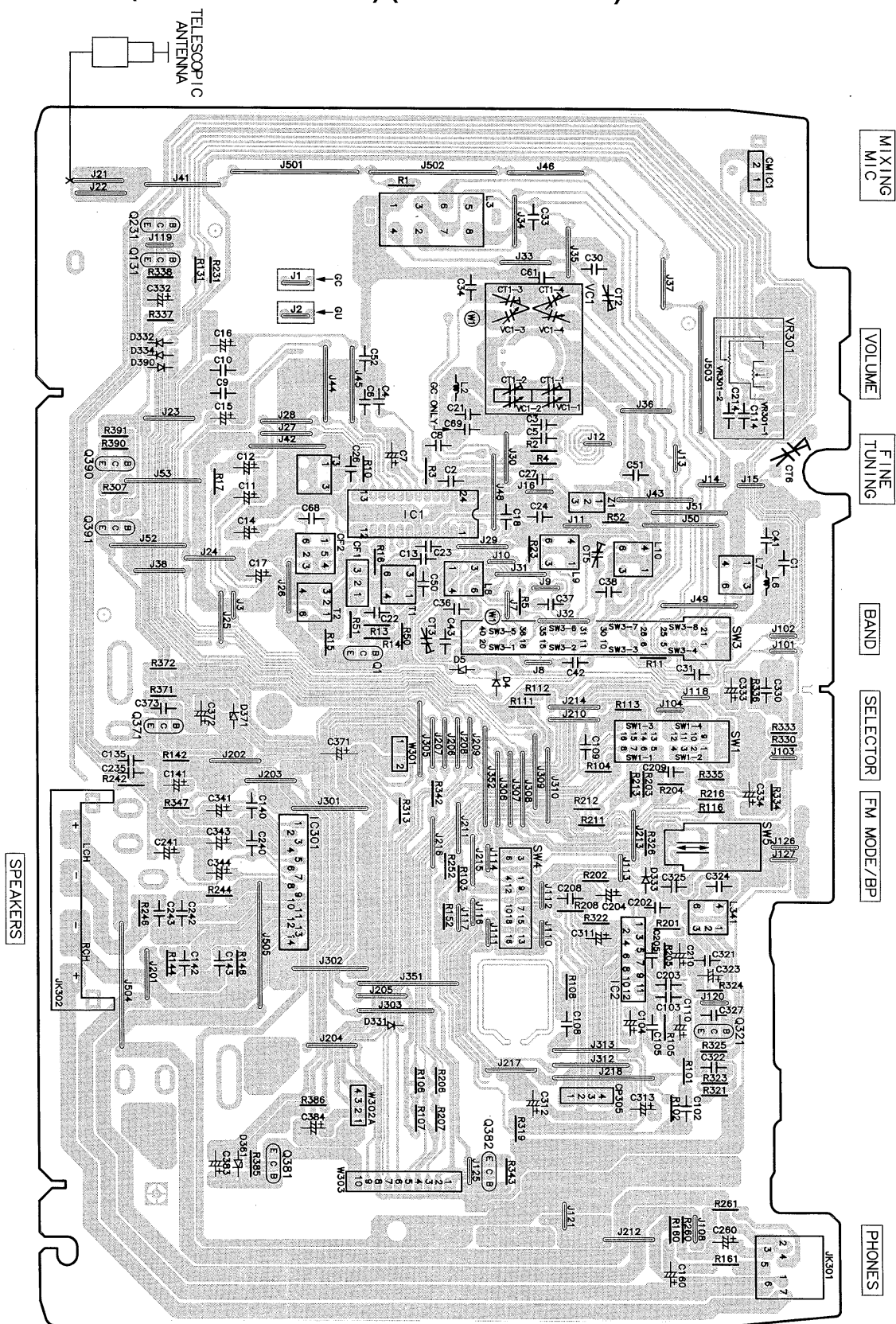
A MAIN CIRCUIT



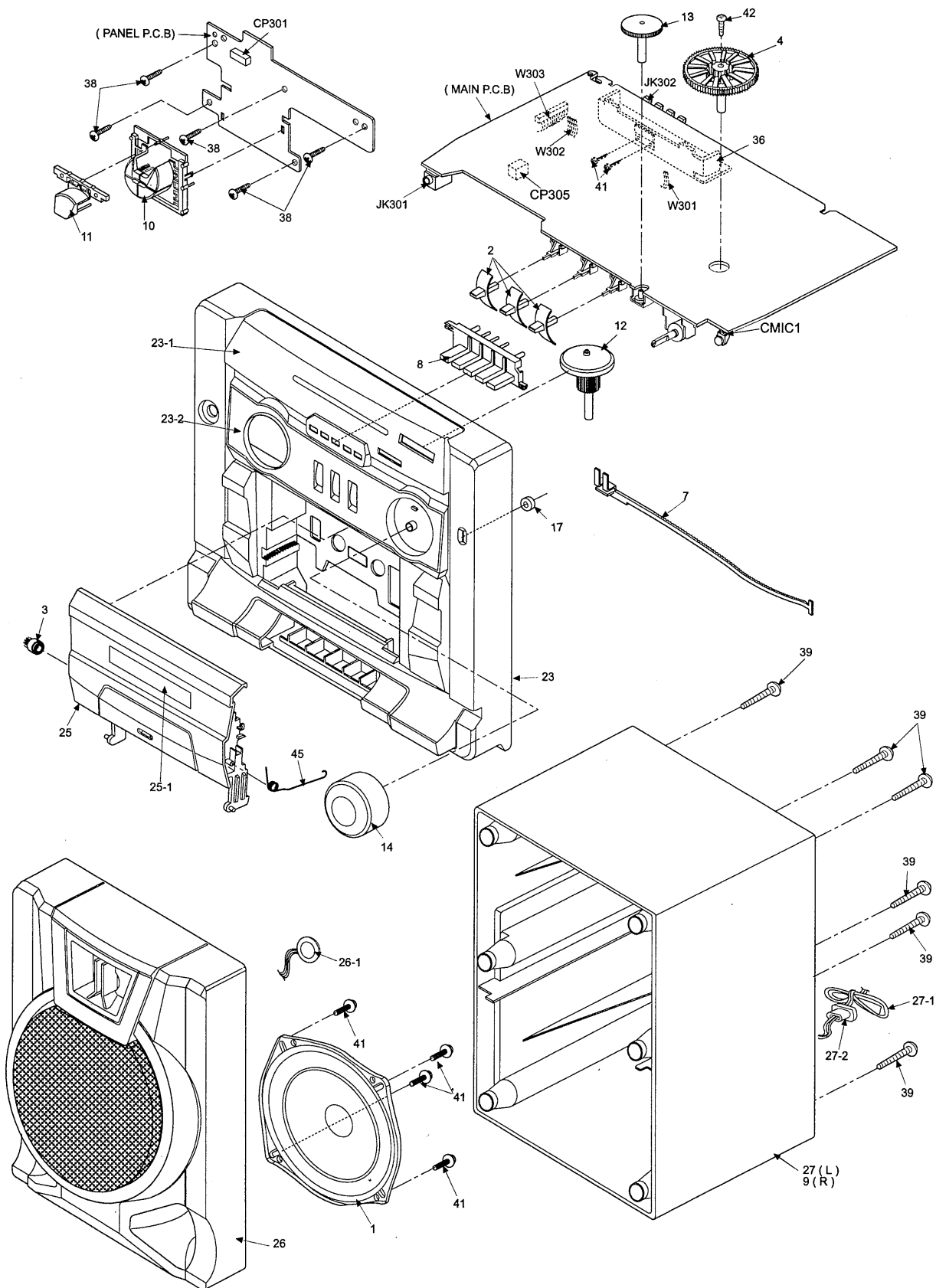


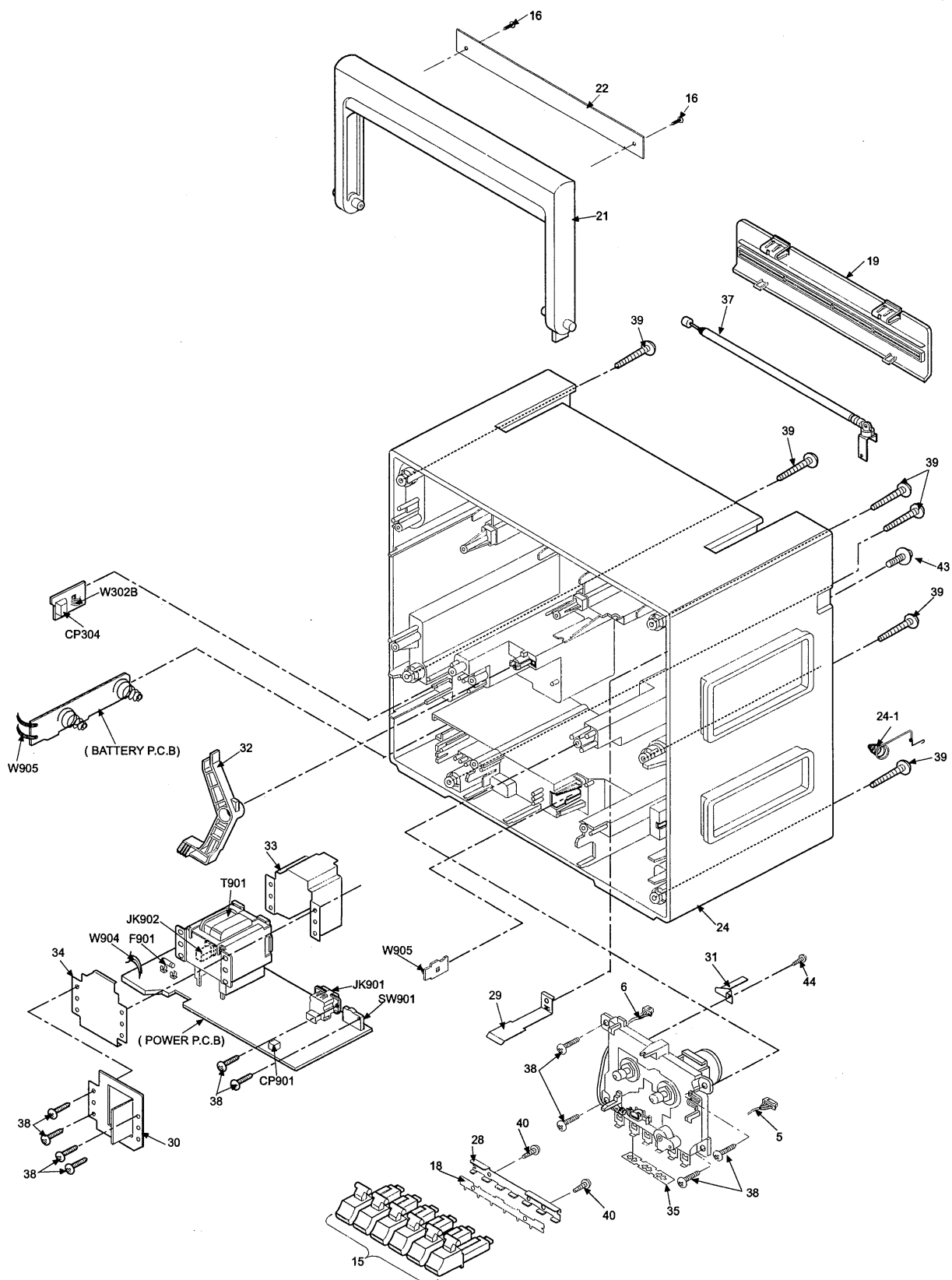
Printed Circuit Board

A MAIN P.C.B. (REPX0153A ... GC) (REPX0153 ... GU)



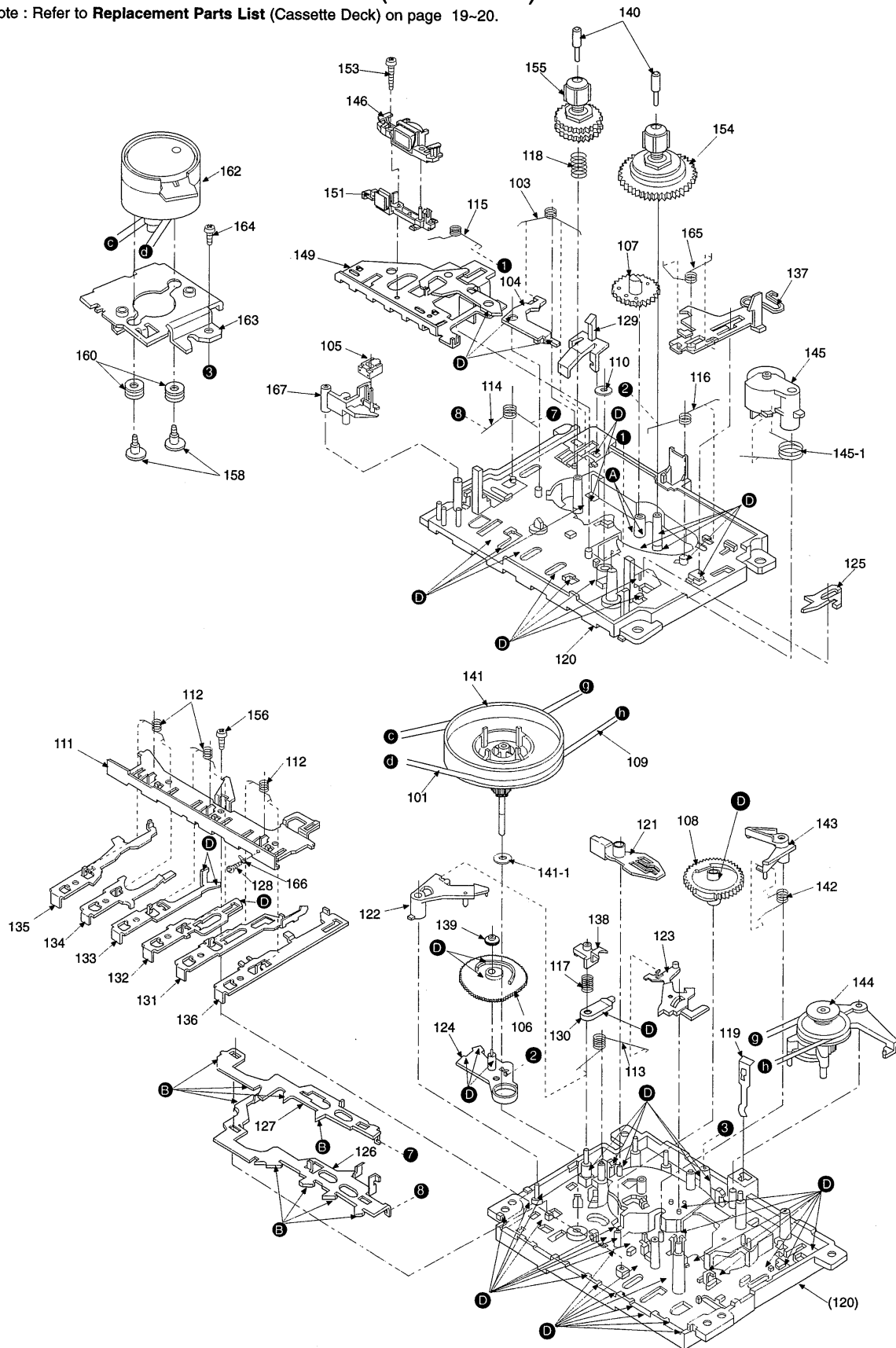
■ Cabinet Parts Location





■ Mechanism Parts Location (RAA0937)

Note : Refer to Replacement Parts List (Cassette Deck) on page 19~20.



■ Replacement Parts List

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 "SF" mark denotes the standard parts.
 * [M] in Remarks column indicates parts that are supplied by MESA.

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		30	RMAX0041	METAL BRACKET	[M]	123	RML0073-1	AS PROTECT LEVER	[M]
				31	RMC0046	RECORD SPRING	[M]	124	RML0074	IDLER LEVER	[M]
1	RAS12P06-H	SPEAKER WOOFER	[M]	32	RMLX0013	RECORDING LEVER	[M]	125	RML0076	EJECT SELECTION LEVEL	[M]
2	RBD562WA-S	SELECTOR KNOB	[M]	33	RMVX0036	TRANS. SHIELD PLATE	[M]	126	RML0077	LOCK PLATE	[M]
3	RDG0183-L	DAMPER GEAR	[M]	34	RMVX0037	TRANS. TOP SHIELD	[M]	127	RML0078	FUNCTION PLATE	[M]
4	RDGX0011	VARICON GEAR	[M]	35	RMXX0004	SPACER	[M]	128	XTN2+4F	EARTH LUG SCREW	[M]
5	REXX0117-1	MOTOR WIRE	[M]	36	RMXX0033	HEAT SINK	[M]	129	RML0081-1	RECORD SAFETY LEVER	[M]
6	REXX0187	TAPE HEAD WIRE	[M]	37	XEARR175EA-Y	ANTENNA ROD	[M]	130	RML0082	PAUSE LEVER	[M]
7	RGJX0017-W	POINTER	[M]	38	XTV3+12G	MOUNTING SCREW	[M]	131	RMM0023	PLAY ROD	[M]
8	RGLX0011-Q	LED DIFFUSER	[M]	39	XTV3+20G	CASING SCREW	[M]	132	RMM0024	REW ROD	[M]
9	RFKHCT850-KB	SPK BK CAB ASS'Y (R)	[M]	40	XTV3+8G	MECHA SCREW	[M]	133	RMM0025	FF ROD	[M]
10	RGUX0260-H	EQ BUTTON (BOTTOM)	[M]	41	XTW3+10F	SCREW	[M]	134	RMM0026	STOP ROD	[M]
11	RGUX0261-H	EQ BUTTON (TOP)	[M]	42	XYN26+C6	VARICON GEAR SCREW	[M]	135	RMM0027	PAUSE ROD	[M]
12	RGWX0037-K	TUNING KNOB	[M]	43	XYN3+F12FY	ANT SCREW	[M]	136	RMM0028	REC ROD	[M]
13	RGWX0038-K	FINE TUNING KNOB	[M]	44	XTN2+4F	RECORDING SPRING SCR.	[M]	137	RMM0029	EJECT SLIDE LEVER	[M]
14	RGWX0039-H	VOLUME KNOB	[M]	45	RMEX0006	CASS. OPEN SPRING	[M]	138	RMR0211	PAUSE BUSH	[M]
15	RGZX0030A-S	MECHA BUTTON (SET)	[M]					139	RMR0227	IDLER GEAR BUSH	[M]
16	RHD20050-K	HDL. ORNAMENT SCREW	[M]			CASSETTE DECK		140	RMS0055	REEL SHAFT	[M]
17	RHG720YA	MIC RUBBER	[M]					141	RXF0020	FLYWHEEL ASSY	[M]
18	RHRX0008	MECHA BUTTON SEAT	[M]	101	RDV0021-1	MAIN BELT 'D'	[M]	141-1	RHW21008	FLYWHEEL WASHER	[M]
19	RKK2SZA-0	BATTERY COVER	[M]	103	RMB0109-1	BRAKE SPRING	[M]	142	RMB0044	TRIGGER SPRING	[M]
21	RKHX0008-K	HANDLE	[M]	104	RML0116	BRAKE	[M]	143	RML0075	TRIGGER LEVER	[M]
22	RKXX0007-K	HANDLE ORNAMENT	[M]	105	RBR2CY009	ERASE HEAD	[M]	144	RXP0014	RF CLUTCH ASSY	[M]
23	RFKGS730GCK	FRONT CAB ASS'Y	[M]GC	106	RDG0057	IDLER GEAR	[M]	145	RXP0015	PINCH ROLLER ASSY	[M]
23	RFKGS730GUK	FRONT CAB ASS'Y	[M]GU	107	RDG0059	FF RELAY GEAR	[M]	145-1	RMB0049	PINCH ARM SPRING	[M]
23-1	RKWX0118A-Q	DIAL PANEL	[M]GC	108	RDK0005	CAM GEAR	[M]	146	RBR4CY016-M	AZTEC STEREO HEAD	[M]
23-1	RKWX0118-Q	DIAL PANEL	[M]GU	109	RDV0006-1	RF BELT	[M]	149	RMA0696	ASTEC HEAD PANEL	[M]
23-2	RKWX0119-Q	OPERATION PANEL	[M]	110	RHW16009	CAPSTAN WASHER	[M]	151	RMQ0384	HEAD BASE	[M]
24	RFKHCS730GCK	BACK CAB ASS'Y	[M]GC	111	RMA0109	BACK PLATE	[M]	153	XTN2+14F	AZTED HEAD SCREW	[M]
24	RFKHCS730GUK	BACK CAB ASS'Y	[M]GU	112	RMB0043-1	ROD OPERATION SPRING	[M]	154	RXR0004	TAKE UP REEL ASSY	[M]
24-1	RJC91006	BATTERY TERMINAL	[M]	113	RMB0045	A.S. SPRING	[M]	155	RXR0005	SUPPLY REEL ASSY	[M]
25	RFKLS730GCK	CASS LID ASS'Y	[M]	114	RMB0046-1	LOCK PLATE SPRING	[M]	156	XTN2+6J	BACK PLATE SCREW	[M]
25-1	RKWX0120-Q	CASS LID PANEL	[M]	115	RMB0047	HEAD PANEL SPRING	[M]	158	RHD26002	MOTOR SCREW	[M]
26	RFKGS730GCK	SPK FRONT CAB ASS'Y	[M]	116	RMB0048	IDLER LEVER SPRING	[M]	160	RMG0102	MOTOR RUB. CUSHION	[M]
26-1	EFBS10D40A1	TWEETER	[M]	117	RMB0053	PAUSE LEVER SPRING	[M]	162	RFKPDY0101PK	DC MOTOR ASS'Y	[M]
27	RFKHCT850-KA	SPK BK CAB ASS'Y (L)	[M]	118	RMB0125	BACK TENSION SPRING	[M]	163	RMA0108	MOTOR BK	[M]
27-1	REXX0089	SPEAKER WIRE	[M]	119	RMC0061	PACK SPRING	[M]	164	XTN26+8J	MOTOR BK SCREW	[M]
27-2	RMGX0012-K	CORD BUSHING	[M]	120	RFKRC090P-K	CHASSIS ASS'Y	[M]	165	RME0098-2	E SLIDE LEVER SPRING	[M]
28	RMAX0006	ANGLE BAR	[M]	121	RML0071	SWING LEVER	[M]	166	RJR0033	EARTH LUG	[M]
29	RMAX0035	ANT TERMINAL	[M]	122	RML0072	AS RELEASE LEVER	[M]	167	RML0080-2	ERASE HEADARM	[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
						SWITCHES				CERAMIC FILTERS	
		INTEGRATED CIRCUITS		S352	EVQ21405R	SW, VOCAL	[M]	CF1	RVF107WDZT	10.7M FILTER	[M]
				S353	EVQ21405R	SW, FLAT	[M]	CF2	RVFSFZ455JL	AM IF	[M]
IC1	LA1828	IC, FM/AM	[M]	S354	EVQ21405R	SW, CLR	[M]				
IC2	BA3313L	IC, R/P	[M]	S355	EVQ21405R	SW, SOFT	[M]			FUSES	
IC301	LA4625	IC, POWER	[M]	S356	EVQ21405R	SW, XBS	[M]				
IC351	CXA2513M	IC, GEQ	[M]	SW1	RST2D001-H	SW, FUNCTION	[M]	F901	XBA2C31TB0	FUSE	[M] ⚠
				SW3	RST4H18ZA-H	SW, BAND	[M]				
		TRANSISTORS		SW4	RSP2F001-A	SW, R/P	[M]			FUSE PROTECTORS	
				SW5	RST2B54ZA-H	SW, BEATPROOF/STEREO	[M]				
Q1	2SC829BTA	TRANSISTOR	[M]	SW901	RSR2A005S-H	SW, VOLTAGE SELECTOR	[M] ⚠	FP901	RSFMB40KT-L	FUSE PROTECTOR	[M]
Q131	2SD1450STA	TRANSISTOR	[M]					FP902	RSFMB50KT-L	FUSE PROTECTOR	[M]
Q231	2SD1450STA	TRANSISTOR	[M]			VARIABLE CAPACITORS					
Q321	2SC1684STA	TRANSISTOR	[M]							FUSE HOLDERS	
Q371	2SD592AQRSTA	TRANSISTOR	[M]	CT2	ECRLA010A53R	VARIABLE CAPACITOR	[M]				
Q381	2SC2001LTA	TRANSISTOR	[M]	CT3	ECRLA010A53R	VARIABLE CAPACITOR	[M]	FH901	RJR0169T	FUSE HOLDER	[M]
Q382	2SC1684STA	TRANSISTOR	[M]	CT5	RCV10AF1T-S	TRIMMER CAP	[M]	FH902	RJR0169T	FUSE HOLDER	[M]
Q390	2SA564RTA	TRANSISTOR	[M]	CT6	RCVMFTPC7B	FINE TUNE CAP	[M]				
Q391	BA1L4MTA	TRANSISTOR	[M]	VC1	RCV4RCT0V-R	VARICON	[M]			JACKS	
		DIODES				CONNECTORS					
								JK301	RJJ37TK08-H	JK, HP	[M]
D4	RVD1SS133TA	DIODE	[M]	CMIC1	RJM164YA	CONDENSER MIC	[M]	JK302	RJF1098ZA-H	JK, SPEAKER	[M]
D5	MTZJ3R3BTA	DIODE	[M]	CP301	RJP10G18ZA	10P CONN	[M]	JK901	RJJ1SE01-1H	JK, AC INLET	[M] ⚠
D331	RVD1SS133TA	DIODE	[M]	CP304	RJP4G9YA	4P CONN (HOR)	[M]	JK902	RJB3ZE-C	JK, DC INLET	[M]
D332	RVD1SS133TA	DIODE	[M]	CP305	RJP4G18ZA	TAPE HEAD CONN	[M]				
D333	RVD1SS133TA	DIODE	[M]	CP901	RJP2G9YA	2P CONN (HOR)	[M]			WIRES	
D334	RVD1SS133TA	DIODE	[M]								
D352	SLR325MCT31	DIODE	[M]			COILS & TRANSFORMERS		W301	REXX0185	MAIN TO POWER WIRE	[M]
D353	SLR325MCT31	DIODE	[M]					W303	REXX0186	MAIN TO PANEL WIRE	[M]
D354	SLR325MCT31	DIODE	[M]	L2	RL04P002T-E	AIR COIL	[M]	W904	RWJ0202130KK	BATTERY WIRE (SHORT)	[M]
D355	SLR325MCT31	DIODE	[M]	L3	RLV5C008	AM BAR ANT	[M]				
D356	SLR325DCT31	DIODE	[M]	L6	RLQY30S4W	COIL	[M]			PACKING MATERIALS	
D358	SLR325VCT31	DIODE	[M]	L7	RLA3B44-M	COIL	[M]				
D361	MTZJ6R8BTA	DIODE	[M]	L8	RL02B108-M	MW OSC COIL	[M]	P1	RPGX0462	GIFT BOX	[M]GU
D364	RB441QT-77	DIODE	[M]	L9	RL03B91-M	SW1 OSC COIL	[M]	P1	RPGX0463	GIFT BOX	[M]GC
D371	MTZJ9R1BTA	DIODE	[M]	L10	RL03B95-M	SW2 OSC COIL	[M]	P2	RPH3SZB	MIRAMAT SHEET	[M]
D390	RVD1SS133TA	DIODE	[M]	L341	RL09B17-T	BIAS COIL	[M]	P3	RPNX0074	POLYFOAM	[M]
D901	1N5402BM21	DIODE	[M]	L401	RLQZP101KT-Y	AXIAL COIL	[M]				
D902	1N5402BM21	DIODE	[M]	T1	RLI4B153-M	FM IF COIL	[M]			ACCESSORIES	
D903	1N5402BM21	DIODE	[M]	T2	RLI2B153-M	AM IF COIL	[M]	A1	RQT4237-G	O/I BOOK	[M]
D904	1N5402BM21	DIODE	[M]	T3	RLI4B153-M	FM IF COIL	[M]	A1	RQT4238-M	O/I BOOK	[M]GU
				T901	RTP1U1E007-X	POWER TRANSFORMER	[M] ⚠	A2	RJA0004	AC CORD	[M]GU ⚠
		VARIABLE RESISTORS						A2	RJA0019-2K	AC CORD	[M]GC ⚠
						COMPONENT COMBINATION		A3	RJP1SG02-H	AC PLUG ADAPTOR	[M]GU
VR301	EWCU1AF20B54	VR, XBS VOLUME	[M]					A3	SJP5213-2	AC PLUG ADAPTOR	[M]GC
				Z1	RCRBMT003-H	BAND PASS FILTER	[M]				

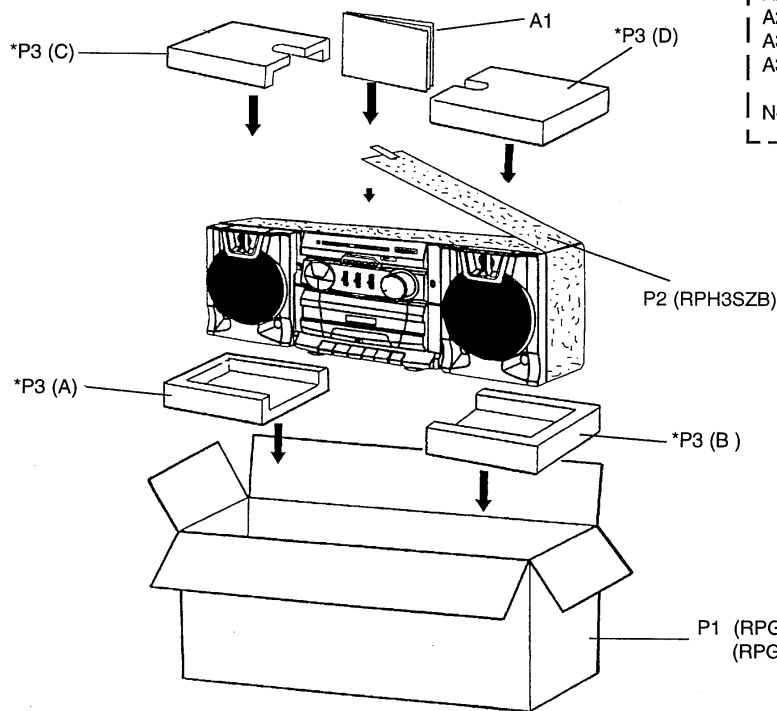
■ Resistors & Capacitors

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.
 * Capacitor values are in microfarad (μ F) 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										
R1	ERDS2TJ104T	100K 1/4W [M]	R206	ERDS2TJ271T	270 1/4W [M]	R363	ERDS2TJ222T	2.2K 1/4W [M]	C37	ECQP2A152JZT	1500P 100V [M]
R2	ERDS2TJ100T	10 1/4W [M]	R207	ERDS2TJ103T	10K 1/4W [M]	R364	ERDS2TJ391T	390 1/4W [M]	C38	ECQP2A472JZT	4700P 100V [M]
R3	ERDS2TJ100T	10 1/4W [M]	R208	ERDS2TJ123T	12K 1/4W [M]	R371	ERDS2TJ101T	100 1/4W [M]	C41	ECBT1H390J5	39P 50V [M]
R4	ERDS2TJ100T	10 1/4W [M]	R211	ERDS2TJ564T	560K 1/4W [M]	R372	ERDS2TJ222T	2.2K 1/4W [M]	C42	ECBT1H200JC5	20P 50V [M]
R5	ERDS2TJ390T	47 1/4W [M]	R212	ERDS2TJ472T	4.7K 1/4W [M]	R385	ERDS2TJ683T	68K 1/4W [M]	C43	ECBT1H6R8KC5	6.8P 50V [M]
R10	ERDS2TJ272T	2.7K 1/4W [M]	R213	ERDS2TJ473T	47K 1/4W [M]	R386	ERDS2TJ101T	100 1/4W [M]	C50	ECBT1C103MS5	0.01 16V [M]
R11	ERDS2TJ221T	220 1/4W [M]	R216	ERDS2TJ103T	10K 1/4W [M]	R390	ERDS2TJ182T	1.8K 1/4W [M]	C51	ECBT1C103MS5	0.01 16V [M]
R13	ERDS2TJ334T	330K 1/4W [M]	R231	ERDS2TJ562T	5.6K 1/4W [M]	R391	ERDS2TJ103T	10K 1/4W [M]	C52	ECBT1C103MS5	0.01 16V [M]
R14	ERDS2TJ471T	470 1/4W [M]	R242	ERDS2TJ822T	8.2K 1/4W [M]	R901	ERDS2TJ473T	47K 1/4W [M]	C61	ECBT1H3R3KC5	3.3P 50V [M]
R15	ERDS2TJ470T	47 1/4W [M]	R244	ERD2FCVJ4R7T	4.7 1/4W [M]	R902	ERDS2TJ222T	2.2K 1/4W [M]	C68	ECBT1H470J5	47P 50V [M]
R16	ERDS2TJ181T	180 1/4W [M]	R246	ERD2FCVJ4R7T	4.7 1/4W [M]				C69	ECBT1H3R9KC5	3.9P 50V [M]GC
R17	ERDS2TJ103T	10K 1/4W [M]	R252	ERDS2TJ222T	2.2K 1/4W [M]		CAPACITORS		C102	ECFR1C333KR	0.033 16V [M]
R23	ERDS2TJ182T	1.8K 1/4W [M]	R260	ERDS2TJ103T	10K 1/4W [M]				C103	ECBT1C222KR5	2200P 16V [M]
R50	ERDS2TJ101T	100 1/4W [M]	R261	ERDS2TJ181T	180 1/4W [M]	C1	ECBT1H100JC5	10P 50V [M]	C104	ECA1CM100B	10 16V [M]
R51	ERDS2TJ101T	100 1/4W [M]	R307	ERDS2TJ221T	220 1/4W [M]	C2	ECBT1H473ZF5	0.047 50V [M]	C105	ECBT1H331KB5	330P 50V [M]
R52	ERDS2TJ101T	100 1/4W [M]	R313	ERDS1FVJ2R7T	2.7 1/2W [M]	C3	ECBT1H150JC5	15P 50V [M]	C108	ECBT1C222KR5	2200P 16V [M]
R101	ERDS2TJ392T	3.9K 1/4W [M]	R319	ERDS2TJ101T	100 1/4W [M]	C4	ECFR1C473MR	0.047 16V [M]	C109	ECBT1C103MS5	0.01 16V [M]
R102	ERDS2TJ222T	2.2K 1/4W [M]	R321	ERDS2TJ471T	470 1/4W [M]	C5	ECBT1H102KB5	1000P 50V [M]	C110	ECA1AM101B	100 10V [M]
R103	ERDS2TJ102T	1K 1/4W [M]	R322	ERDS2TJ105T	1M 1/4W [M]	C6	ECBT1C182KR5	1800P 16V [M]	C114	ECBT1H561KB5	560P 50V [M]
R104	ERDS2TJ104T	100K 1/4W [M]	R323	ERDS2TJ333T	33K 1/4W [M]	C7	ECA1HM4R7B	4.7 50V [M]	C135	ECBT1H102KB5	1000P 50V [M]
R105	ERDS2TJ560T	56 1/4W [M]	R324	ERDS2TJ100T	10 1/4W [M]	C8	ECBT1H470J5	47P 50V [M]	C140	ECBT1H471KB5	470P 50V [M]
R106	ERDS2TJ271T	270 1/4W [M]	R325	ERDS2TJ221T	220 1/4W [M]	C9	ECFR1C153KR	0.015 16V [M]	C141	ECA1HM2R2B	2.2 50V [M]
R107	ERDS2TJ103T	10K 1/4W [M]	R326	ERDS2TJ104T	100K 1/4W [M]	C10	ECFR1C153KR	0.015 16V [M]	C142	ECQV1H104JZ3	0.1 50V [M]
R108	ERDS2TJ123T	12K 1/4W [M]	R330	ERDS2TJ222T	2.2K 1/4W [M]	C11	ECA1HMR22B	0.22 50V [M]	C143	ECQV1H104JZ3	0.1 50V [M]
R111	ERDS2TJ564T	560K 1/4W [M]	R333	ERDS2TJ222T	2.2K 1/4W [M]	C12	ECA1HM3R3B	3.3 50V [M]	C160	ECA1CM100B	10 16V [M]
R112	ERDS2TJ472T	4.7K 1/4W [M]	R334	ERDS2TJ101T	100 1/4W [M]	C13	ECBT1H473ZF5	0.047 50V [M]	C202	ECFR1C333KR	0.033 16V [M]
R113	ERDS2TJ473T	47K 1/4W [M]	R335	ERDS2TJ152T	1.5K 1/4W [M]	C14	ECA1CM220B	20 16V [M]	C203	ECBT1C222KR5	2200P 16V [M]
R116	ERDS2TJ103T	10K 1/4W [M]	R336	ERDS2TJ471T	470 1/4W [M]	C15	ECA1CM100B	10 16V [M]	C204	ECA1CM100B	10 16V [M]
R131	ERDS2TJ562T	5.6K 1/4W [M]	R337	ERDS2TJ332T	3.3K 1/4W [M]	C16	ECA1CM100B	10 16V [M]	C205	ECBT1H331KB5	330P 50V [M]
R142	ERDS2TJ822T	8.2K 1/4W [M]	R338	ERDS2TJ123T	12K 1/4W [M]	C17	ECA1AM471B	470 10V [M]	C208	ECBT1C222KR5	2200P 16V [M]
R144	ERD2FCVJ4R7T	4.7 1/4W [M]	R342	ERDS2TJ472T	4.7K 1/4W [M]	C18	ECBT1H200JC5	10P 50V [M]	C209	ECBT1C103MS5	0.01 16V [M]
R146	ERD2FCVJ4R7T	4.7 1/4W [M]	R343	ERDS2TJ471T	470 1/4W [M]	C21	ECBT1H180JC5	18P 50V [M]	C210	ECA1AM101B	100 10V [M]
R152	ERDS2TJ222T	2.2K 1/4W [M]	R347	ERDS2TJ103T	10K 1/4W [M]	C22	ECBT1C103NS5	0.01 16V [M]	C214	ECBT1H561KB5	560P 50V [M]
R160	ERDS2TJ103T	10K 1/4W [M]	R353	ERDS2TJ680T	68 1/4W [M]	C23	ECBT1H104ZF5	0.1 50V [M]	C235	ECBT1H102KB5	1000P 50V [M]
R161	ERDS2TJ181T	180 1/4W [M]	R354	ERDS2TJ181T	180 1/4W [M]	C24	ECBT1H473ZF5	0.047 50V [M]	C240	ECBT1H471KB5	470P 50V [M]
R201	ERDS2TJ392T	3.9K 1/4W [M]	R355	ERDS2TJ473T	47K 1/4W [M]	C26	ECBT1C103NS5	0.01 16V [M]	C241	ECA1HM2R2B	2.2 50V [M]
R202	ERDS2TJ222T	2.2K 1/4W [M]	R356	ERDS2TJ181T	180 1/4W [M]	C27	ECBT1H102KB5	1000P 50V [M]	C242	ECQV1H104JZ3	0.1 50V [M]
R203	ERDS2TJ102T	1K 1/4W [M]	R357	ERDS2TJ683T	68K 1/4W [M]	C30	ECBT1H8R2KC5	8.2P 50V [M]	C243	ECQV1H104JZ3	0.1 50V [M]
R204	ERDS2TJ104T	100K 1/4W [M]	R358	ERDS2TJ104T	100K 1/4W [M]	C31	ECBT1H3R3KC5	3.3P 50V [M]	C260	ECA1CM100B	10 16V [M]
R205	ERDS2TJ560T	56 1/4W [M]	R359	ERDS2TJ183T	18K 1/4W [M]	C33	ECFR1C223MR	0.022 16V [M]	C311	ECA1CM330B	33 16V [M]
			R360	ERDS2TJ683T	68K 1/4W [M]	C34	ECBT1H3R9KC5	3.9P 50V [M]	C312	ECA1AM471B	470 10V [M]
			R361	ERDS2TJ683T	68K 1/4W [M]	C36	ECQP2A361JZT	360P 100V [M]	C313	ECA1HM3R3B	3.3 50V [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
C321	ECBT1H102KB5	1000P 50V [M]	C355	ECEA1CKA101B	100 16V [M]	C611	ECBT1C472KR5	4700P 16V [M]			
C322	ECFR1C223MR	0.022 16V [M]GU	C357	ECEA1HKA0R1B	0.1 50V [M]	C701	ECEA1HKA0R1B	0.1 50V [M]			
C323	ECA1AM101B	100 10V [M]	C358	ECEA1HKA4R7B	4.7 50V [M]	C702	ECEA1HKA0R1B	0.1 50V [M]			
C324	ECQP2A152JZT	1500P 100V [M]	C359	ECBT1C332MR5	3300P 16V [M]	C703	ECBT1H561KB5	560P 50V [M]			
C325	ECQP2A121GZT	120P 100V [M]	C371	ECA1EM332EV	3300 25V [M]	C801	ECEA1HKA0R1B	0.1 50V [M]			
C327	ECBT1C103MS5	0.01 16V [M]	C372	ECA1CM470B	47 16V [M]	C802	ECEA1HKA0R1B	0.1 50V [M]			
C330	ECFR1C333KR	0.033 16V [M]	C373	ECBT1C103MS5	0.01 16V [M]	C803	ECBT1H561KB5	560P 50V [M]			
C332	ECA1CM330B	33 16V [M]	C383	ECA1CM100B	10 16V [M]	C901	ECKR1H103ZF5	0.01 50V [M]			
C333	ECA1HMR47B	0.47 50V [M]	C384	ECA1CM101B	100 16V [M]	C902	ECKR1H103ZF5	0.01 50V [M]			
C334	ECA1AM101B	100 10V [M]	C602	ECBT1C103MS5	0.01 16V [M]	C903	ECKR1H103ZF5	0.01 50V [M]			
C341	ECA1CM101B	100 16V [M]	C606	ECBT1H104ZF5	0.1 50V [M]	C904	ECKR1H103ZF5	0.01 50V [M]			
C343	ECA1CM470B	47 16V [M]	C607	ECBT1C682KR5	6800P 16V [M]						
C344	ECA1HMR47B	0.47 50V [M]	C608	ECBT1H473ZF5	0.047 50V [M]						
C352	ECEA1CKA101B	100 16V [M]	C609	ECBT1C682KR5	6800P 16V [M]						
C354	ECEA1AKA220B	22 10V [M]	C610	ECBT1C682KR5	6800P 16V [M]						

Packaging (Refer to page 20 for the Parts List.)



ACCESSORY

A1 (RQT4237-G)	: O/I BOOK
A1 (RQT4238-M ... GU)	: O/I BOOK
A2 (RJA0019-2K ... GC)	: AC CORD
A2 (RJA0004 ... GU)	: AC CORD
A3 (RJP1SG02-H ... GU)	: AC PLUG ADAPTOR
A3 (SJP5213-2 ... GC)	: AC PLUG ADAPTOR

Note : A2 and A3 items are placed in the battery case.

P3 (RPNX0074)	*P3 (A)
	*P3 (B)
	*P3 (C)
	*P3 (D)