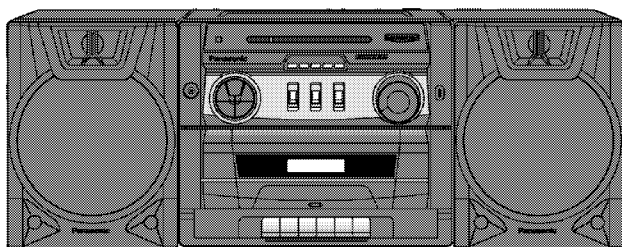


# Service Manual

## Portable Stereo Component System



**RX-CS730M2GC**

**RX-CS730M2GU**

Colour

(K).....Black Type

## Specification

### ■ RADIO

Frequency range

FM 88-108 MHz

MW 530-1605 MHz

SW1 2.3-7.0 MHz

SW2 7.0-22.0 MHz

Power output

150 W ... PMPO

Speakers

2 Woofer; 12 cm

2 Tweeter; 1.5 cm

Jacks

Output

Speakers: 8Ω

Headphones: 32Ω

### ■ TAPE RECORDER

Track System 4 track, 2 channel, stereo

Recording system AC bias

Erasing system Magnet

Monitor system Variable sound monitor

Frequency range

Normal position 60-14000 Hz

Dimensions (W x H x D)

581 x 225 x 221 mm

Main Unit

261 x 225 x 221 mm

Speaker box

169 x 224 x 204 mm

Mass

5.4 kg without batteries

### Notes:

1. Mass and dimensions shown are approximate.

2. Specifications are subject to change without notice.

### ■ GENERAL

Power requirement

AC 110-127 V/220-240 V, 50/60 Hz

Power consumption 22 W

Battery 12 V [Eight R20/LR20 (D, UM-1) batteries]

● Do not use rechargeable type batteries

DC IN 12-13.2 V



**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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# CONTENTS

	Page		Page
1 Before Use .....	3	7 Schematic Diagram .....	8
2 Before Repair and Adjustment .....	3	8 Printed Circuit Board .....	12
3 Protection Circuitry .....	3	9 Wiring Connection Diagram .....	16
4 Accessories .....	4	10 Measurements and Adjustments .....	17
5 Location of Controls .....	5	11 Type Illustration of IC's, Transistors and Diodes .....	21
6 Disassembly and Main Component Replacement Procedures before Operation Checks .....	6	12 Parts Location and Replacement Parts List .....	22

# 1 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.)

# 2 Before Repair and Adjustment

Current consumption at AC 110 V, 127 V, 220 V, 240 V, 50 Hz in NO SIGNAL mode should be ~95 mA, ~110 mA, ~50 mA, ~55 mA respectively.

# 3 Protection Circuitry

The protection circuitry may have operated if either of the following conditions are noticed:

- No sound is heard when the power is turned on.
- Stops during a performance.

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less than the indicated rated impedance of the amplifier are used.

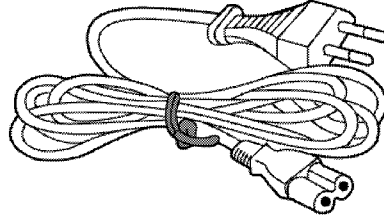
If this occurs, follow the procedure outlines below:

1. Turn off the power.
2. Determine the cause of the problem and correct it.
3. Turn on the power once again after one minute.

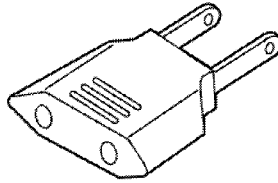
**Note:**

When the protection circuitry functions, the unit will not operate unless the power is first turned off and then on again.

## 4 Accessories

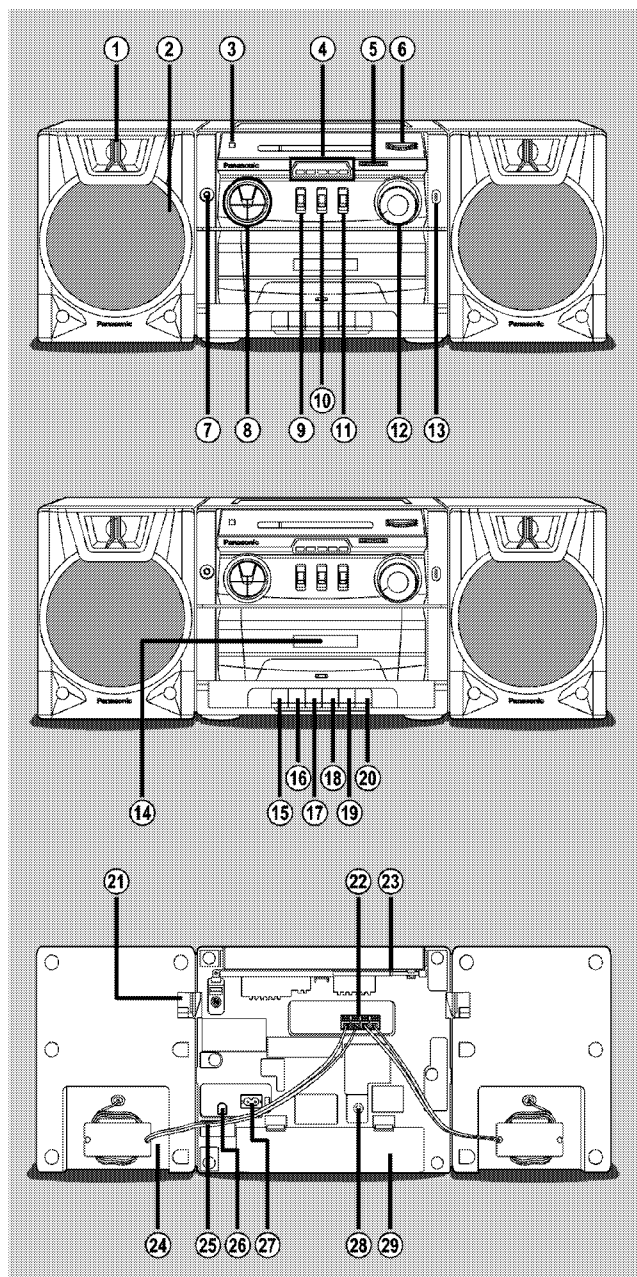


AC power cord.....1 pc



AC plug adaptor.....1 pc

## 5 Location of Controls



### Basic/Tuner controls

- ① Speakers (Tweeter)
- ② Speakers (Woofer)
- ③ Operation/battery indicator ( **OPERATION/ BATT** )
- ④ Preset equalizer indicators
- ⑤ Fine tuning control (FINE TUNING)
- ⑥ Tuning control (TUNING)
- ⑦ Headphones jack (PHONES)
- ⑧ Preset equalizer buttons (PRESET EQ)
- ⑨ FM mode/beat proof selector (FM MODE/BP)
- ⑩ Function selector (SELECTOR)
- ⑪ Band selector (BAND)
- ⑫ Volume control (VOLUME)
- ⑬ Built-in microphone (MIC)

### Cassette deck controls

- ⑭ Cassette holder
- ⑮ Recording button (● **REC**)
- ⑯ Playback button (▷ **PLAY**)
- ⑰ Rewind/review button (◀◀ **REW/REV**)
- ⑱ Fast forward/cue button (▶▶ **FF/CUE**)
- ⑲ Stop/eject button (■/▲ **STOP/EJECT**)
- ⑳ Pause button (|| **PAUSE**)

### Rear Panel Section

- ㉑ Speaker release levers (**RELEASE**)
- ㉒ Speaker terminals (**SPEAKERS**)
- ㉓ Telescopic antenna
- ㉔ Speaker cable compartments
- ㉕ Speaker cables
- ㉖ Voltage selector (**VOLTAGE SELECTOR**)
- ㉗ AC socket (**AC IN~**)
- ㉘ DC input jack (**DC IN**)
- ㉙ Battery compartment cover

## 6 Disassembly and Main Component Replacement Procedures before Operation Checks

### “ATTENTION SERVICER”

Some chassis components may have sharp edges. Be careful when disassembling and servicing.

1. This section describes the procedures for checking the operation of the major printed circuit boards and replacing the main components.
2. For assembly 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 requirements.
4. Refer the part no. on the page of “Main Component Replacement Procedures”, if necessary.

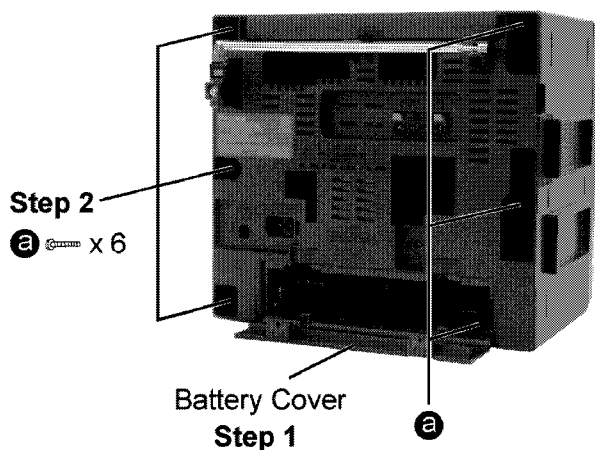
### Content

#### • Checking Procedure for each major P.C.B.

1. Checking Procedure for Main, Panel, Mechanism and Power P.C.B. .... P.g. 6 ~ 7

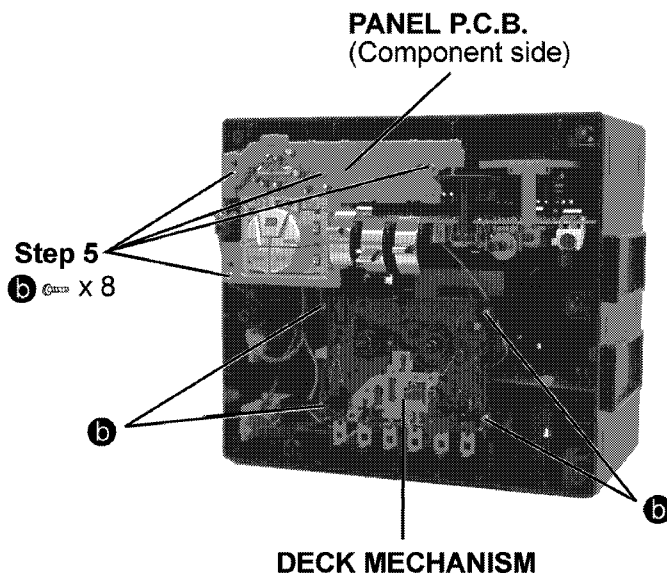
### 6.1. Checking Procedure for each major P.C.B.

#### 6.1.1. Checking Procedure for Main, Panel, Mechanism and Power P.C.B.

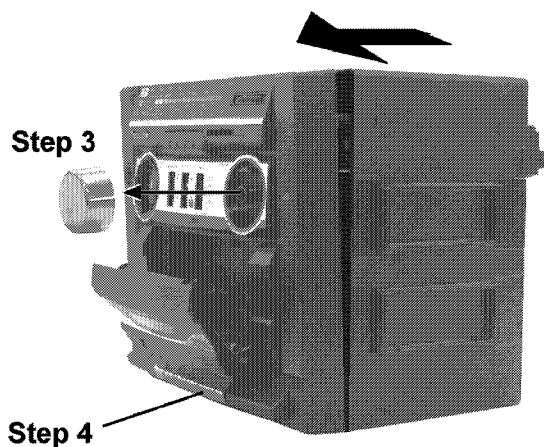


**Step 1:** Remove the Battery Cover.

**Step 2:** Remove all the screws.

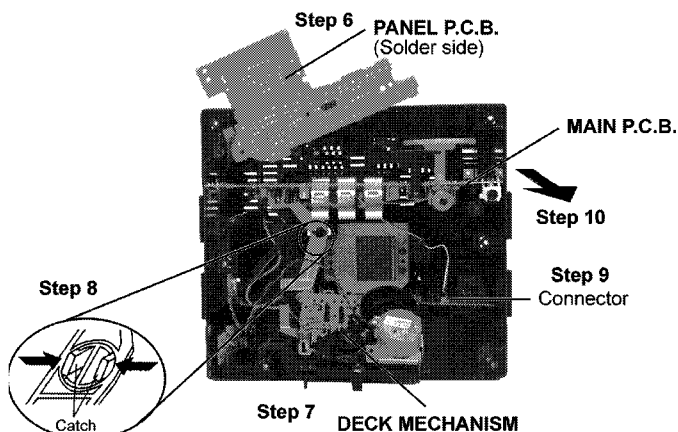


**Step 5:** Remove all the screws.



**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.



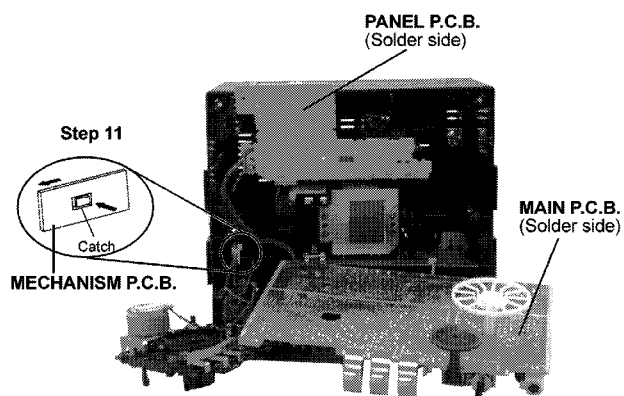
**Step 6:** Flip over the Panel P.C.B.

**Step 7:** Remove the Deck Mechanism as shown.

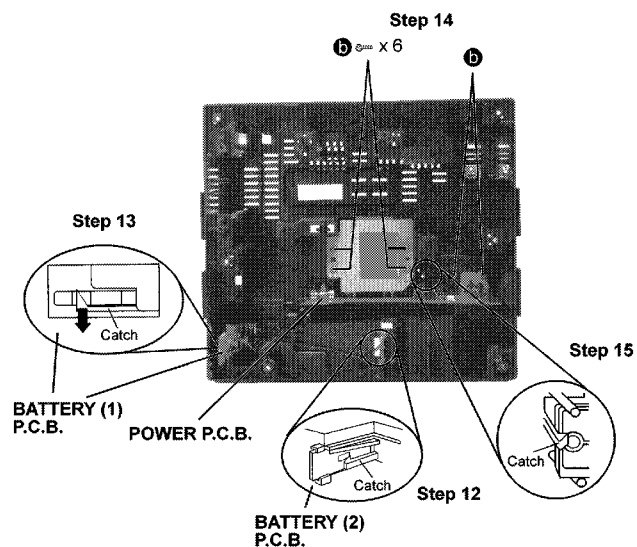
**Step 8:** Release catch in the direction of arrow, pull out the Recording Level.

**Step 9:** Remove the connector as shown.

**Step 10:** Pull out the Main P.C.B. in the direction of arrow.



**Step 11:** Release the catch and pull out the Mechanism P.C.B. as shown in the direction of the arrows.

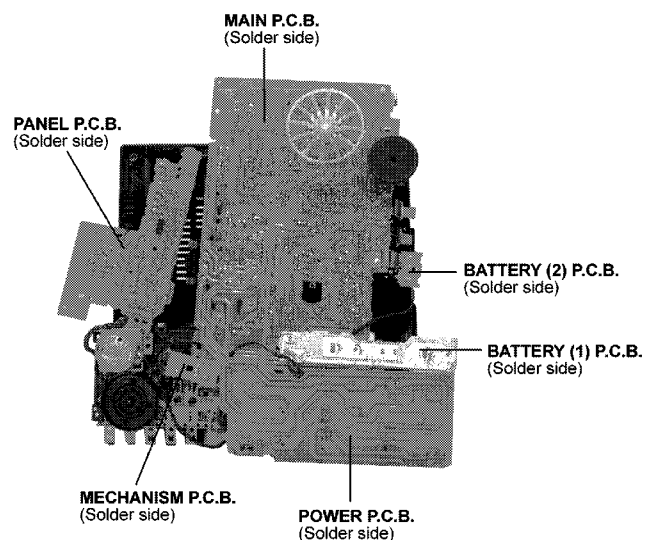


**Step 12:** Release the catch and pull out the Battery (2) P.C.B.

**Step 13:** Release the catch on the bottom side of the cabinet. Pull out Battery (1) P.C.B.

**Step 14:** Remove all the screws.

**Step 15:** Release the catch and pull out the Power P.C.B.



## 7 Schematic Diagram

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

(( )) : CD

### Notes:

S352 : VOCAL SWITCH  
 S353 : FLAT SWITCH  
 S354 : CLEAR SWITCH  
 S355 : SOFT SWITCH  
 S356 : XBS SWITCH  
 SW1 : SELECTOR SWITCH  
 SW3 : BAND SWITCH  
 SW4 : RECORDING SWITCH  
 SW5 : EDITING SWITCH  
 SW901 : VOLTAGE SELECTOR SWITCH

- 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.

< >	; FM	No Mark	: Tape
( )	: AM	[ ]	: Standby

### • Importance safety notice:

Components identified by  $\triangle$  mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistor), high-quality sound (capacitors), low-noise (resistor), 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.
- Put a conductive mat on the work table.
- Ground the soldering iron.
- Do not touch the pins of IC, LSI or VLSI with fingers directly.



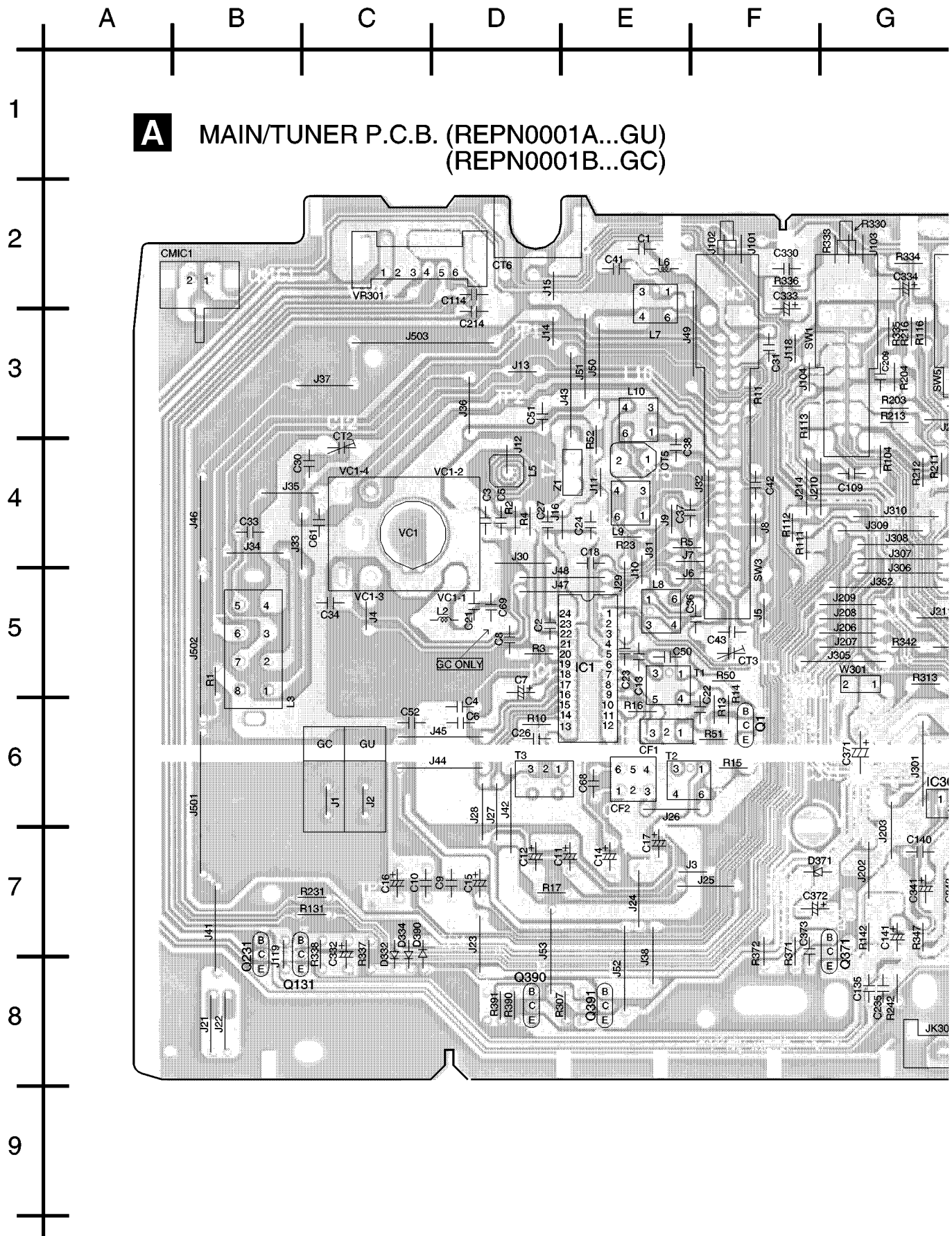






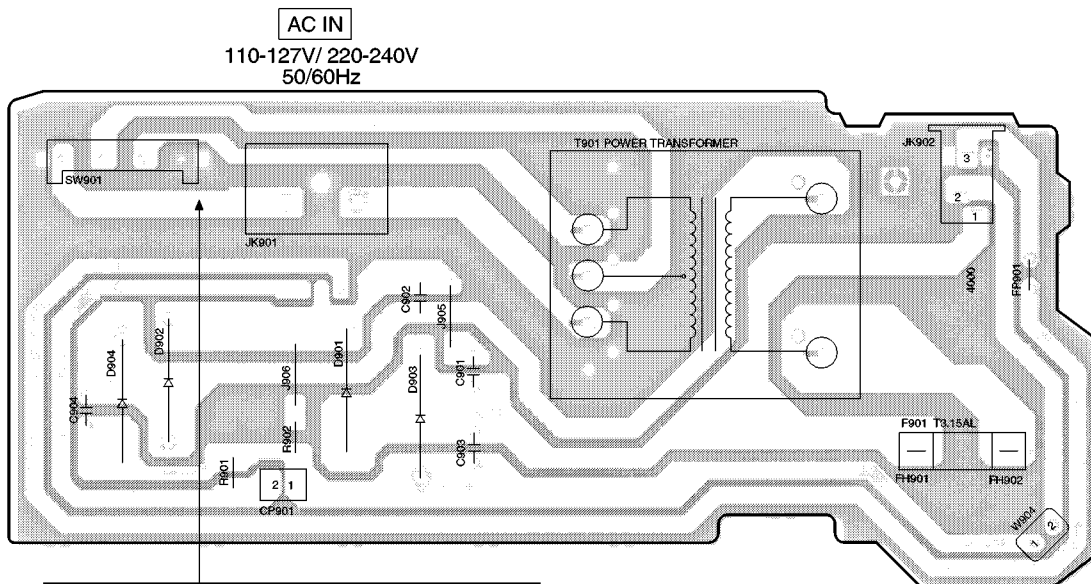
# 8 Printed Circuit Board

(This printed circuit board diagram may be modified at any time with the development of new technology.)



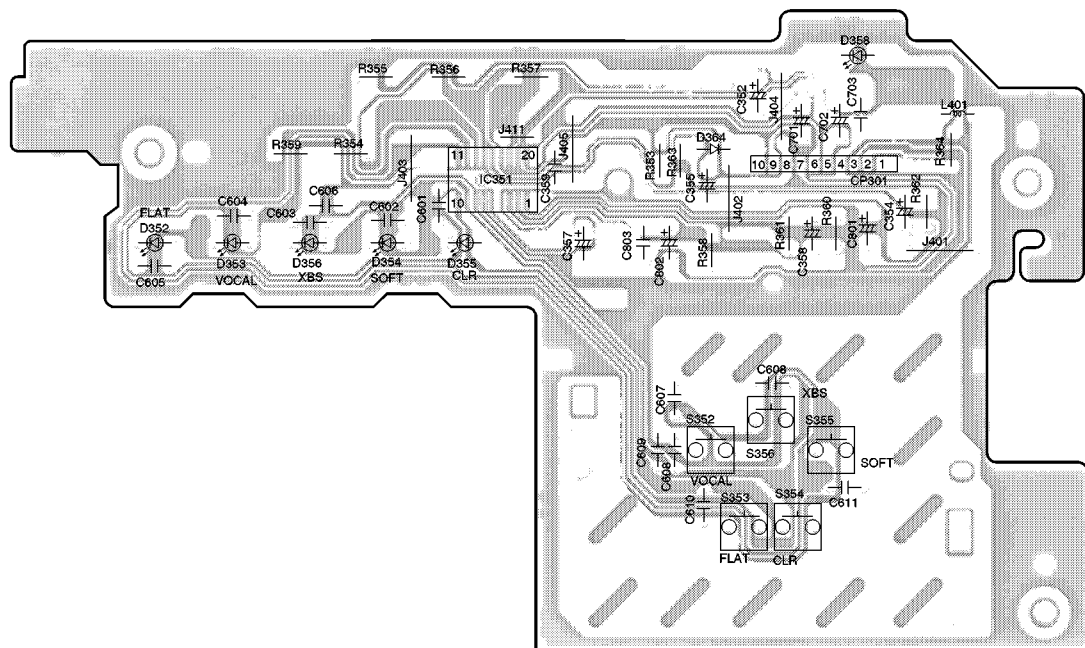


## C POWER P.C.B. (REPN0002A)



CAUTION  
RISK OF ELECTRIC SHOCK  
AC VOLTAGE LINE. PLEASE DO NOT  
TOUCH THIS P.C.B

## B PANEL P.C.B. (REPX0002A)

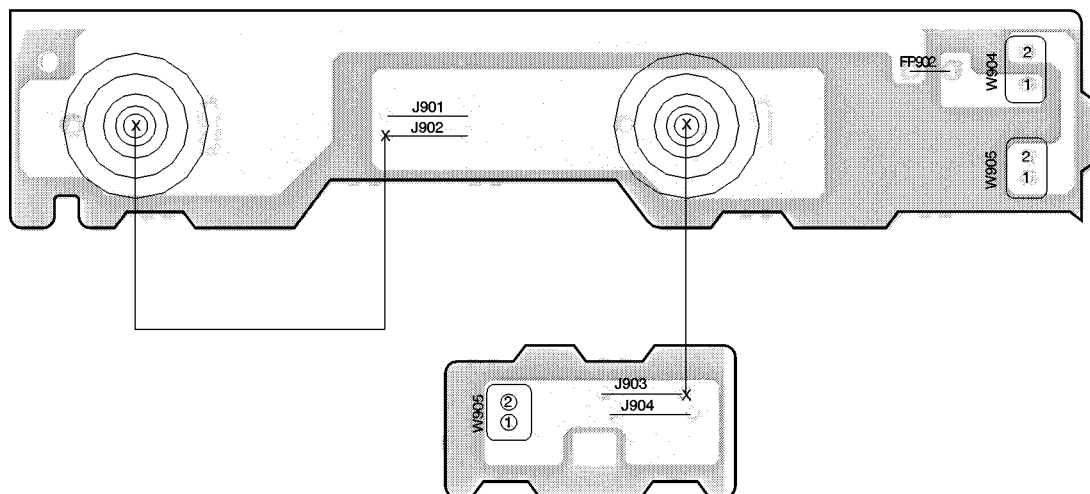


A B C D E F G

1

## **E** BATTERY P.C.B. (REPN0002A)

2



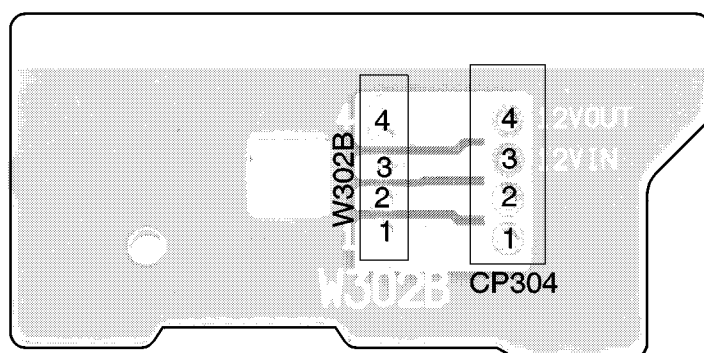
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4

5

## **D** MECHANISM P.C.B. (REPN0001A...GU) (REPN0001B...GC)

6

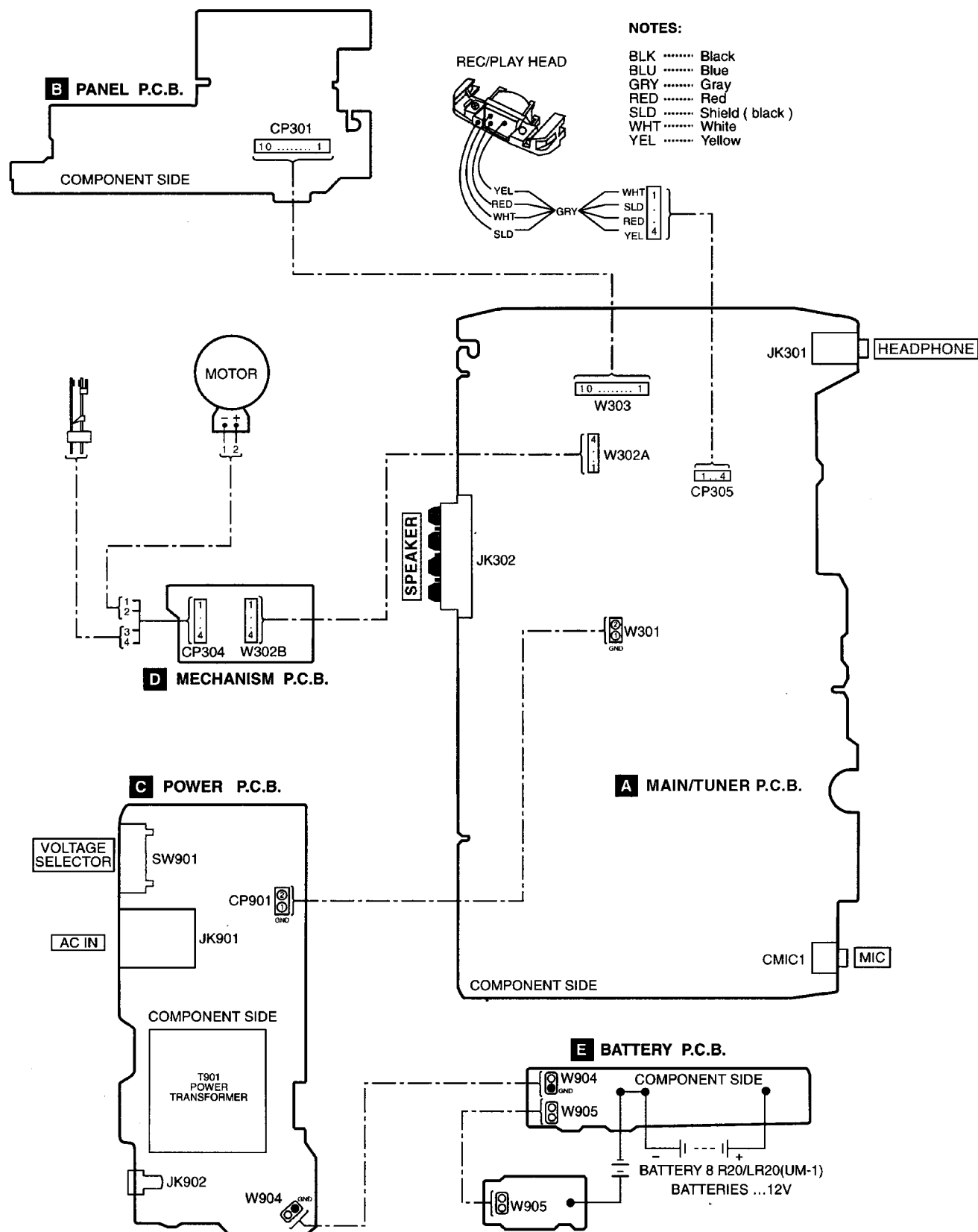


7

8

9

## 9 Wiring Connection Diagram





# 10 Measurements and Adjustments

## 10.1. Tuner Section

### 10.1.1. Alignment Instructions

#### READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

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

#### • 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 600 kHz)	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

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.	(GU).....511 kHz (GC).....520 kHz ±1 kHz	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.	L8 (MW OCS. Coil)	Adjust for maximum output.
Fashion a loop of several turns of wire and radiate signal into loop of receiver.	(GU).....1650 kHz (GC).....1635 kHz ±1 kHz	Tuning capacitor fully opened.	Headphone Jack (32Ω) Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument.	CT3 (MW ANT. Trimmer)	Adjust for maximum output.
Fashion a loop of several turns of wire and radiate signal into loop of receiver.	550 kHz	Tune to signal	Headphone Jack (32Ω) Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument.	[*1] L3-1 (MW ANT. Coil)	Adjust for maximum output. Adjust L3-1 by moving coil bobbin along the ferrite core.
Fashion a loop of several turns of wire and radiate signal into loop of receiver.	1500 kHz	Tune to signal	Headphone Jack (32Ω) Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument.	CT2 (MW ANT. Trimmer)	Adjust for maximum output.

#### • SW1-RF 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.	2.249 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.	L9 (SW1 OSC. Coil)	Adjust for maximum output.
Fashion a loop of several turns of wire and radiate signal into loop of receiver.	7.231 MHz	Tuning capacitor fully opened.	Headphone Jack (32Ω) Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument.	VC1-3 (SW1 ANT. Coil)	Adjust for maximum output.

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.	2.3 MHz	Tune to signal	Headphone Jack (32Ω) Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument.	[*1] L3-2 (SW1 ANT. Coil)	Adjust for maximum output. Adjust L3-2 by moving coil bobbin along the ferrite core.
Fashion a loop of several turns of wire and radiate signal into loop of receiver.	7.0 MHz	Tune to signal	Headphone Jack (32Ω) Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument.	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 OCS. Coil)	Adjust for maximum output.
Connect to test point TP1 through ceramic capacitor (10pF). Negative side to test point TP2.	22.80 MHz	Tuning capacitor fully opened.	Headphone Jack (32Ω) Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument.	CT5 (SW2 OCS. Trimmer)	Adjust for maximum output.
Connect to test point TP1 through ceramic capacitor (10pF). Negative side to test point TP2.	7.0 MHz	Tune to signal.	Headphone Jack (32Ω) Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument.	L7 (SW2 ANT. Coil)	Adjust for maximum output.

#### • FM-IF 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.	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.
Connect to test point TP1 through ceramic capacitor (10pF). 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.	T3 (FM 2nd IFT)	Waveform is shown in Fig. 4.

#### • FM-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.	(GU)....86.2 MHz (GC)....87.45 MHz ± 30 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 OCS. Coil)	Adjust for maximum output. [*2]
Connect to test point TP1 through ceramic capacitor (10pF). Negative side to test point TP2.	(GU)....109.2 MHz (GC)....108.35 MHz ± 50 kHz	Variable capacitor fully opened.	Headphone Jack (32Ω) Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument.	VC1-1 (FM OCS. VC1)	Adjust for maximum output. [*2]

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.	106 MHz	Tune to signal.	Headphone Jack (32Ω) Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument.	VC1-2 (FM ANT VC1)	Adjust for maximum output.

[\*2} Three output responses will be present; proper tuning is the center frequency.

## 10.2. Cassette Deck Section

### 10.2.1. Alignment Instructions

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT	
<b>Measuring Instruments</b> - Digital frequency counter <b>Test tape</b> - 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.	<b>Measuring Conditions</b> - Make sure the capstan and pressure rollers are clean. - Make sure the capstan and pressure rollers are clean.

#### • 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 ± 60 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.

## 10.3. Alignment Points

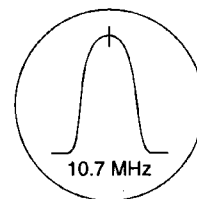
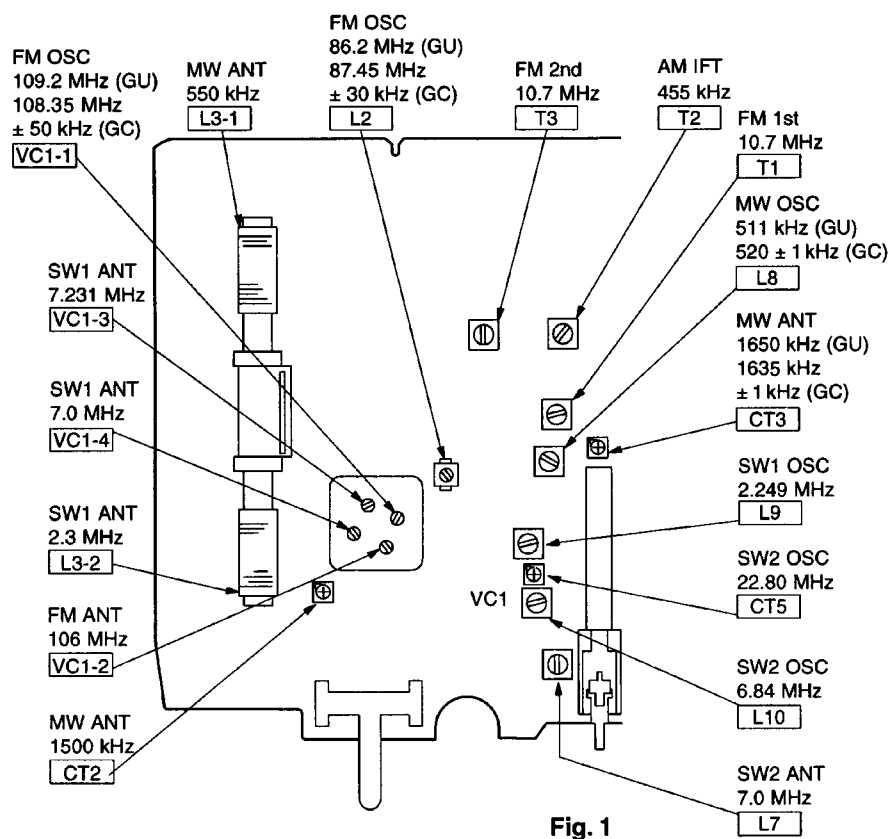


Fig. 3

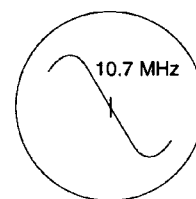


Fig. 4

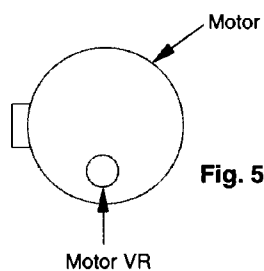


Fig. 5

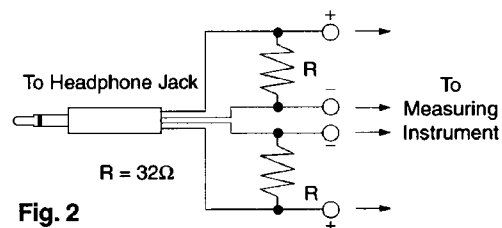
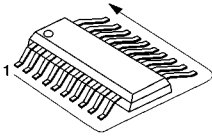
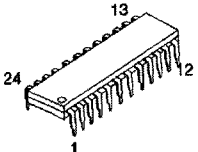
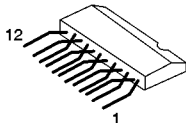
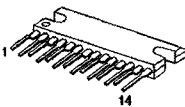
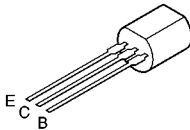
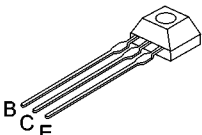
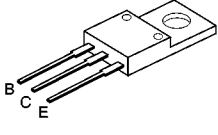
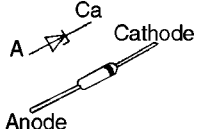
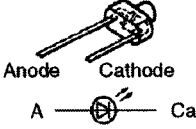
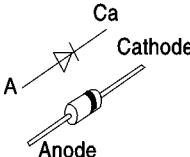
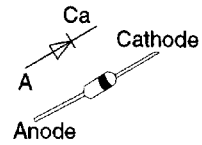


Fig. 2

# 11 Type Illustration of IC's, Transistors and Diodes

<p>CXA2513M (20p)</p> 	<p>LA1828</p> 	<p>BA3313L</p> 	<p>LA4625</p> 	<p>2SC829BTA KTC3203YAT KTA1266GRAT</p> 
<p>KTC3199GRAT 2SD1450STA BA1L4MTA</p> 	<p>2SD2374PQAU</p> 	<p>MTZJ3R3BTA MTZJ6R8BTA MTZJ9R1BTA</p> 	<p>SLR325VCT31 SLR325DCT31 SLR325MCT31</p> 	<p>1N5402BM21</p> 
<p>RVD1SS133TA RB441Q40T77</p> 				

# 12 Parts Location and Replacement Parts List

## Note:

- Important safety notice:

Components identified by  $\triangle$  mark have special characteristics important for safety.

Furthermore, special parts which have purpose of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.

When replacing any of these components, be sure to use only manufacturer's specified parts shown in the parts list.

- The parenthesized indications in the Remarks columns specify the areas or colour. (Refer to the cover page for area or colour)

Parts without these indications can be used for all areas.

- Capacitor values are in microfarads ( $\mu$ F) unless specified otherwise, P=Pico-farads (pF), F=Farads.

- Resistance value are in ohms, unless specified otherwise, 1K=1,000 (OHM).

- The marking (RTL) indicates that the Retention Time is limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

- [M] Indicates in the Remarks columns indicates parts supplied by **MESA**.

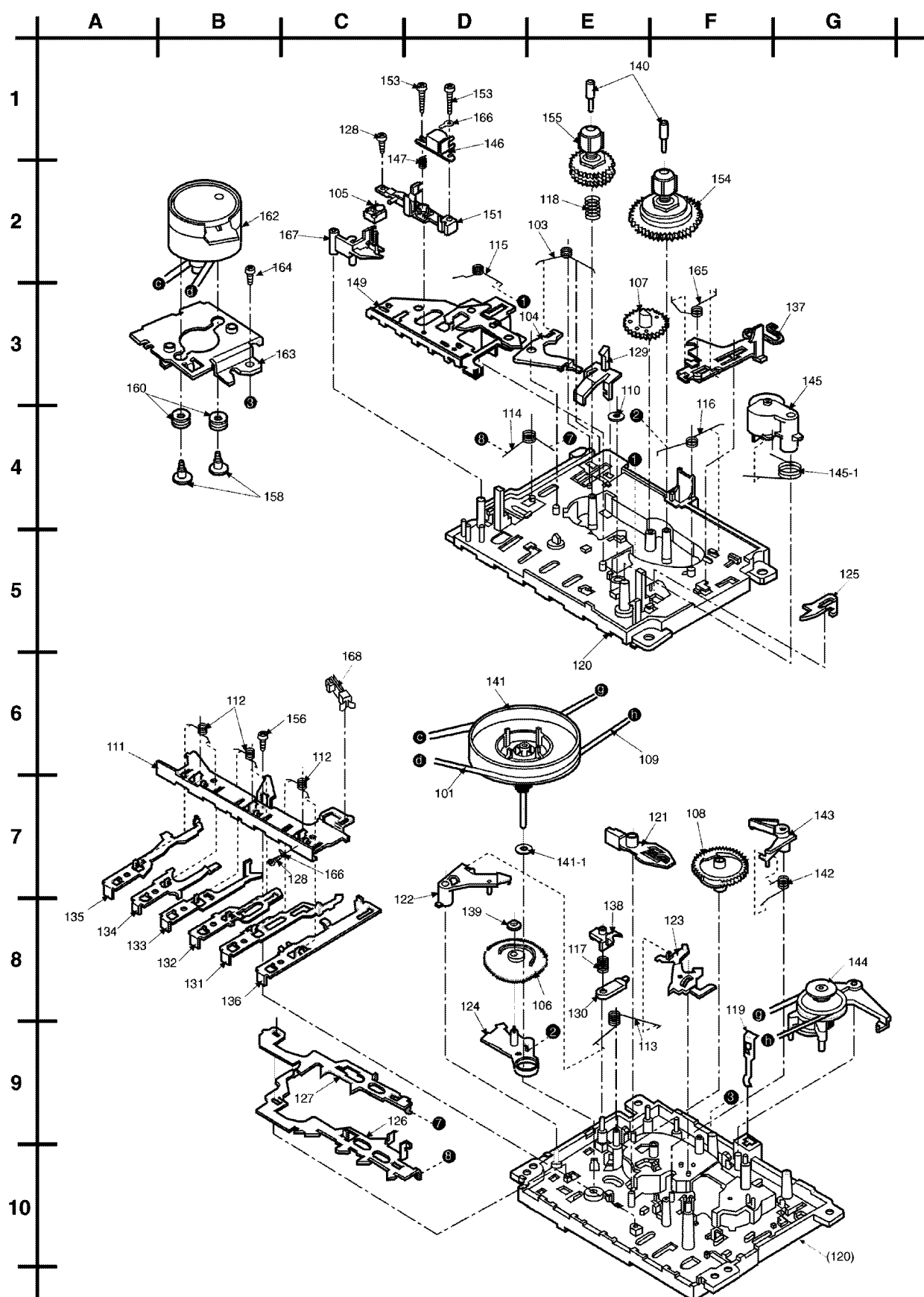
- The "(SF)" mark denotes the standard part.

- Reference for O/I book languages are as follows:

Ar : Arabic	Cf : Canadian French	Cz : Czech	Da : Danish
Du : Dutch	En : English	Fr : French	Ge : German
It : Italian	Ko : Korean	Po : Polish	Ru : Russian
Sp : Spanish	Sw : Swedish	Co : Traditional Chinese	Cn : Simplified Chinese

## 12.1. Deck Mechanism (RAA0945-1N)

### 12.1.1. Deck Mechanism Parts Location

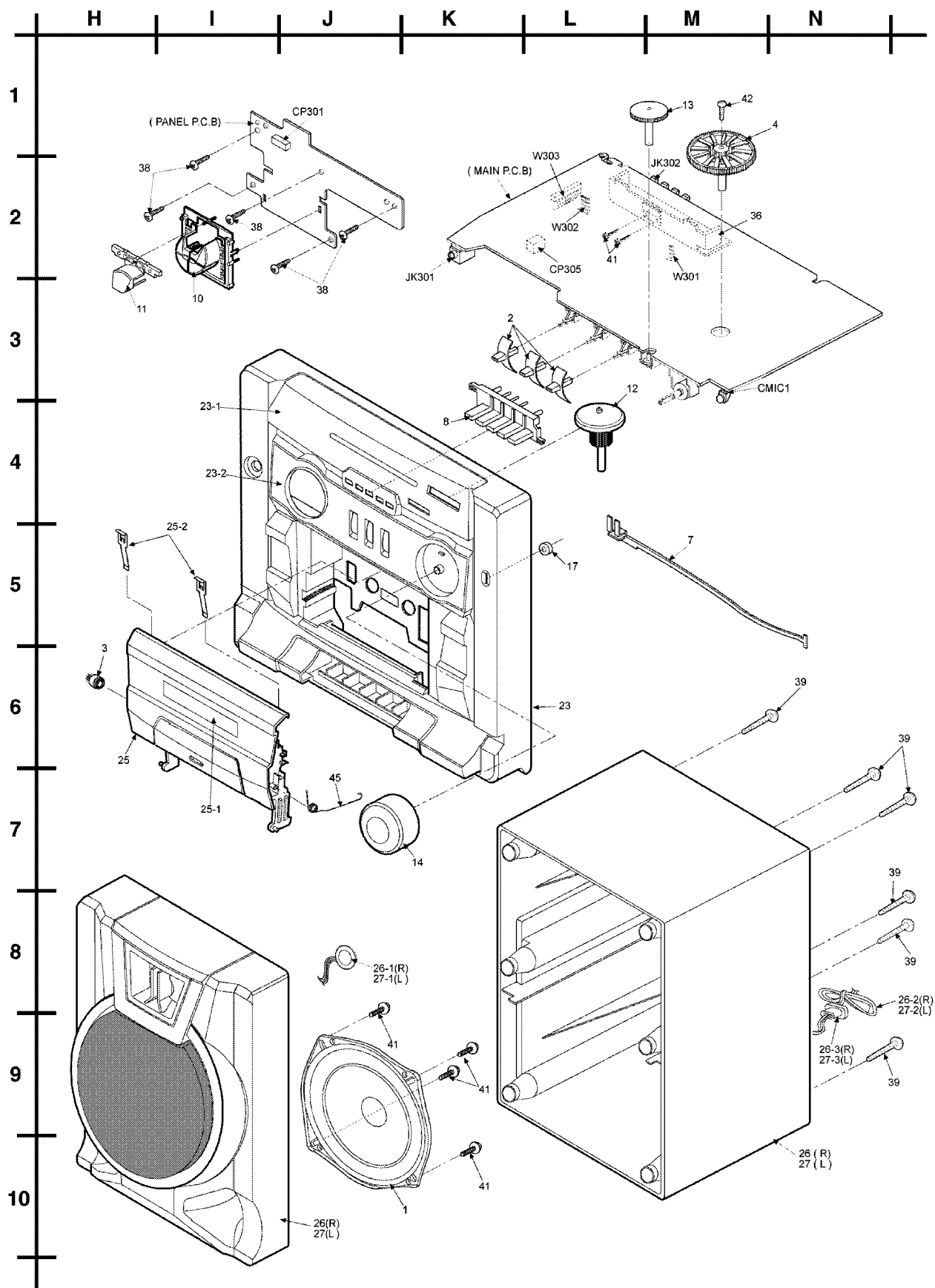


## 12.1.2. Deck Mechanism Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		CASSETTE DECK	
101	RDV0021	MAIN BELT 'D'	[M]
103	RMB0109-1	BRAKE SPRING	[M]
104	RML0116	BRAKE	[M]
105	RD-JHP001-N	ERASE HEAD	[M]
106	RDG0057	IDLER GEAR	[M]
107	RDG0059	FF RELAY GEAR	[M]
108	RDK0005	CAM GEAR	[M]
109	RDV0006-1	RF BELT	[M]
110	RHW16009	CAPSTAN WASHER	[M]
111	RMA0109	BACK PLATE	[M]
112	RMB0043-1	ROD OPERATION SPRING	[M]
113	RMB0045	A.S. SPRING	[M]
114	RMB0046-1	LOCK PLATE SPRING	[M]
115	RMB0047	HEAD PANEL SPRING	[M]
116	RMB0048	IDLER LEVER SPRING	[M]
117	RMB0053	PAUSE LEVER SPRING	[M]
118	RMB0125	BACK TENSION SPRING	[M]
119	RMC0061	PACK SPRING	[M]
120	RFKRC090P-K	CHASSIS ASS'Y	[M]
121	RML0071	SWING LEVER	[M]
122	RML0072	AS RELEASE LEVER	[M]
123	RML0073-1	AS PROTECT LEVER	[M]
124	RML0074	IDLER LEVER	[M]
125	RML0076	EJECT SELECTION LEVE	[M]
126	RML0077	LOCK PLATE	[M]
127	RML0078	FUNCTION PLATE	[M]
128	XTN2+4F	EARTH LUG SCREW	[M]
129	RML0081-1	RECORD SAFETY LEVER	[M]
130	RML0082	PAUSE LEVER	[M]
131	RMM0023	PLAY ROD	[M]
132	RMM0024	REW ROD	[M]
133	RMM0025	FF ROD	[M]
134	RMM0026	STOP ROD	[M]
135	RMM0027	PAUSE ROD	[M]
136	RMM0028	REC ROD	[M]
137	RMM0029	EJECT SLIDE LEVER	[M]
138	RMR0211	PAUSE BUSH	[M]
139	RMR0227	IDLER GEAR BUSH	[M]
140	RMS0055	REEL SHAFT	[M]
141	RXF0020	FLYWHEEL ASSY	[M]
141-1	RHW21008	FLYWHEEL WASHER	[M]
142	RMB0044	TRIGGER SPRING	[M]
143	RML0075	TRIGGER LEVER	[M]
144	RXP0014	RF CLUTCH ASSY	[M]
145	RXP0015	PINCH ROLLER ASSY	[M]
145-1	RMB0049	PINCH ARM SPRING	[M]
146	RBR4CM004-M	R/P HEAD	[M]
147	RMB0059	AZIMUTH SPRING	[M]
149	RMA1080	ASTEC HEAD PANEL	[M]
151	RMR0149	HEAD BASE	[M]
153	XTN2+8F	R. SPRING SCREW	[M]
154	RXR0004	TAKE UP REEL ASSY	[M]
155	RXR0005	SUPPLY REEL ASSY	[M]
156	XTN2+6J	BACK PLATE SCREW	[M]
158	RHD26002	MOTOR SCREW	[M]
160	RMG0102	MOTOR RUB. CUSHION	[M]
162	RFKXPDS101PK	DC MOTOR ASS'Y	[M]
163	RMA0108	MOTOR BK	[M]
164	XTN26+8J	MOTOR BK SCREW	[M]
165	RME0098-2	E SLIDE LEVER SPRING	[M]
166	RJR0033	EARTH LUG	[M]
167	RML0080	ERASE HEADARM	[M]
168	RSH1A003-U	LEAF SWITCH	[M]







## 12.2.2. Cabinet Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	L0AA12A00007	SPEAKER WOOFER	[M]
2	RBD562WA-S	SELECTOR KNOB	[M]
3	RDG0183-L	DAMPER GEAR	[M]
4	RDGX0011	VARICON GEAR	[M]
5	REXX0182	DECK HEAD 2 WIRE	[M]
6	REXX0187	TAPE HEAD WIRE	[M]
7	RGJX0017-W	POINTER	[M]
8	RGLX0011-Q	LED DIFFUSER	[M]
10	RGUX0260A-H2	EQ BUTTON (BOTTOM)	[M]
11	RGUX0261A-H1	EQ BUTTON (TOP)	[M]
12	RGWX0037-K	TUNING KNOB	[M]
13	RGWX0038-K	FINE TUNING KNOB	[M]
14	RGWX0039A-S	VOLUME KNOB	[M]
15	RGZX0030A-S	MECHA BUTTON	[M]
16	RHD20050-K	HDL ORNAMANT SCREW	[M]
17	RHG720YA	MIC RUBBER	[M]
18	RHRX0008	MECHA BUTTON SEAT	[M]
19	RKK2SZA-0	BATT. COVER	[M]
21	RKHX0008-K	HANDLE	[M]
22	RKXX0007-K	HANDLE ORNAMENT	[M]
23	RFGKCS730MGC	FRONT CABINET ASS'Y	[M] GC
23	RFGKCS730MGU	FRONT CABINET ASS'Y	[M] GU
23-1	RKWX0118B-Q	DIAL PANEL	[M] GU
23-1	RKWX0118C-Q	DIAL PANEL	[M] GC
23-2	RKWX0119A-Q1	OPERATIONAL PANEL	[M]
24	RFKHCS730MGC	BACK CABINET ASS'Y	[M] GC
24	RFKHCS730MGU	BACK CABINET ASS'Y	[M] GU
24-1	RJC91006-1	BATT. TERMINAL	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
25	RFKLCS730MGC	CASS LID ASS'Y	[M]
25-1	RKWX0120A-Q1	CASS LID PANEL	[M]
25-2	RUS757ZAA	CASS HALF SPRING	[M]
26	RAPN0002-K	SPEAKER BOX UNIT (R)	[M]
26-1	EFBS10D40A-S	TWEETER	[M]
26-2	REXX0089	SPEAKER CORD	[M]
26-3	RMGX0012-K	CORD BUSHING	[M]
27	RAPN0001-K	SPEAKER BOX UNIT (L)	[M]
27-1	EFBS10D40A-S	TWEETER	[M]
27-2	REXX0089	SPEAKER CORD	[M]
27-3	RMGX0012-K	CORD BUSHING	[M]
28	RMAX0006	ANGLE BAR	[M]
29	RMAX0035	ANT TERMINAL	[M]
30	RMAX0041A	TRANSFORMER BRACKET	[M]
31	RMC0046	REC SPRING	[M]
32	RMLX0013	RECORDING LEVER	[M]
33	RMVX0036	TRANSFORMER SHIELD P	[M]
34	RMVX0037	TRANSFORMER TOP SHIE	[M]
36	RMVX0033	HEAT SINK	[M]
37	XEARR175E-C	WHIP ANTENNA	[M]
38	XTV3+12G	SCREW	[M]
39	XTV3+20G	SCREW	[M]
40	XTV3+8G	SCREW	[M]
41	XTW3+10F	SCREW	[M]
42	XYN26+C6	SCREW	[M]
43	XYN3+F12FY	ROD ANT SCREW	[M]
44	XTN2+4F	EARTH LUG SCREW	[M]
45	RMEX0006	CASSETTE OPEN SPRING	[M]
46	RJCX0003	BATTERY SPRING	[M]

## 12.3. Components Part List

Ref. No.	Part No.	Part Name & Description	Remarks
		P.C.B.	
	REPN0001A	MAIN/TUNER P.C.B. / MECHANISM P.C.B.	[M] GU
	REPN0001B	MAIN/TUNER P.C.B. / MECHANISM P.C.B.	[M] GC
	REPN0002A	BATTERY P.C.B. / POWER P.C.B. / PANEL P.C.B.	[M]
		INTEGRATED CIRCUITS	
IC1	LA1828	IC FM/AM	[M]
IC2	BA3313L	IC PREP/AM	[M]
IC301	LA4625	IC POWER	[M]
IC351	CXA2513M	IC EQ	[M]
		TRANSISTORS	
Q1	2SC829BTA	TRANSISTOR	[M]
Q131	2SD1450STA	TRANSISTOR	[M]
Q231	2SD1450STA	TRANSISTOR	[M]
Q321	KTC3199GRAT	TRANSISTOR	[M]
Q371	2SD2374PQAU	TRANSISTOR	[M] △
Q381	KTC3203YAT	TRANSISTOR	[M] △
Q382	KTC3199GRAT	TRANSISTOR	[M]
Q390	KTA1266GRAT	TRANSISTOR	[M]
Q391	BA114MTA	TRANSISTOR	[M]
		DIODES	
D4	RVD1SS133TA	DIODE	[M]
D5	MTZJ3R3BTA	DIODE	[M]
D331	RVD1SS133TA	DIODE	[M]
D332	RVD1SS133TA	DIODE	[M]
D333	RVD1SS133TA	DIODE	[M]
D334	RVD1SS133TA	DIODE	[M]
D352	SLR325MCT31	DIODE	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
D353	SLR325MCT31	DIODE	[M]
D354	SLR325MCT31	DIODE	[M]
D355	SLR325MCT31	DIODE	[M]
D356	SLR325DCT31	DIODE	[M]
D358	SLR325VCT31	DIODE	[M]
D361	MTZJ6R8BTA	DIODE	[M]
D364	RB441Q40T77	DIODE	[M]
D371	MTZJ9R1BTA	DIODE	[M]
D390	RVD1SS133TA	DIODE	[M]
D901	1N5402BM21	DIODE	[M] △
D902	1N5402BM21	DIODE	[M] △
D903	1N5402BM21	DIODE	[M] △
D904	1N5402BM21	DIODE	[M] △
		VARIABLE RESISTORS	
VR301	EWCU1AF20B54	VR, VOLUME	[M]
VC1	RCV4RDT0V-R	VARICON	[M]
		SWITCHES	
S352	EVQ21405R	SW, VOCAL	[M]
S353	EVQ21405R	SW, FLAT	[M]
S354	EVQ21405R	SW, CLEAR	[M]
S355	EVQ21405R	SW, SOFT	[M]
S356	EVQ21405R	SW, XBS	[M]
SW1	RST2D001-Q	SW, SEL	[M]
SW3	RST4H001-Q	SW, BAND	[M]
SW4	RSP2F003-B	SW, RECORDING	[M]
SW5	RST2B54ZA-Q	SW EDITING	[M]
SW901	RSR2A006S-B	SW, VOLTAGE SELECTOR	[M] △
CMIC1	RJM0005-J	CONDENSER MIC	[M]
CP301	RJP10G18ZA	CONNECTOR	[M]
CP304	RJT029W004-1	CONNECTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
CP305	RJP4G18ZA	TAPE HEAD CONNECTOR	[M]
CP901	RJT029W002-1	CONNECTOR	[M]
		TRIMMER	
CT2	ECRLA010A53R	TRIMMER CAPACITOR	[M]
CT3	ECRLA010A53R	TRIMMER CAPACITOR	[M]
CT5	RCV10AF1T-S	TRIMMER	[M]
CT6	F6CAH1R40001	FINE TUNNING CAP	[M]
		COILS & TRANSFORMERS	
L2	RL04P004	FM ANT COIL	[M] GC
L2	RLD4Y53W	FM OSC COIL	[M] GU
L3	RLV5C006	FERRITE ANT	[M]
L6	RLQY30S4W	COIL	[M]
L7	RLA3B44	COIL	[M]
L8	RL02B108-M	AM OSC COIL	[M]
L9	RL03B91-M	SW1 OSC COIL	[M]
L10	RL03B95-M	SW2 ANT COIL	[M]
L341	RL09B17	REC BIAS OSC COIL	[M]
L401	RLQZP101KT-Y	COIL	[M]
T1	RLI4B153	FM IFT	[M]
T2	RLI2B153	AM IFT	[M]
T3	RLI4B153	FM IFT	[M]
T901	G4C5ACK00005	POWER TRANSFORMER	[M] △
		COMPONENT COMBINATION	
Z1	RCRBMT003-H	BAND PASS FILTER	[M]
		CERAMIC FILTERS	
CF1	RVF107WDZT	CERAMIC FILTER	[M]
CF2	RVFSFZ455JL	CERAMIC FILTER	[M]
		FUSES	
F901	XBA2C31TB0	FUSE	[M] △
		FUSE HOLDERS	
FH901	EYF52BC	FUSE HOLDER	[M]
FH902	EYF52BC	FUSE HOLDER	[M]
		FUSE PROTECTOR	
FP901	RSFMB40KT-L	FUSE PROTECTOR	[M] △
FP902	RSFMB50KT-L	FUSE PROTECTOR	[M] △
		JACKS	
JK301	RJJ33TK12	JK HEADPHONE	[M]
JK302	RJH5417	JK SPEAKER	[M]
JK901	RJJ1SE01-X	JK AC INLET	[M] △
JK902	RJJ43K12	JK DC INLET	[M] △
		WIRES	
W301	REXX0185A	MAIN TO POWER WIRE	[M]
W302	RWJ0204170SS	WIRE	[M]
W303	REXX0186	MAIN TO PANEL WIRE	[M]
W904	RWJ0202130KK	BATTREY COVER	[M]
W905	RWJ0202125KK	WIRE	[M]
		RESISTORS	
R1	ERDS2TJ104T	100K 1/4W	[M]
R2	ERDS2TJ100T	10 1/4W	[M]
R3	ERDS2TJ100T	10 1/4W	[M]
R4	ERDS2TJ100T	10 1/4W	[M]
R5	ERDS2TJ390T	39 1/4W	[M]


Ref. No.	Part No.	Part Name & Description	Remarks
R10	ERDS2TJ272T	2.7K 1/4W	[M]
R11	ERDS2TJ221T	220 1/4W	[M]
R13	ERDS2TJ334T	330K 1/4W	[M]
R14	ERDS2TJ471T	470 1/4W	[M]
R15	ERDS2TJ470T	47 1/4W	[M]
R16	ERDS2TJ181T	180 1/4W	[M]
R17	ERDS2TJ103T	10K 1/4W	[M]
R23	ERDS2TJ182T	1.8K 1/4W	[M]
R50	ERDS2TJ101T	100 1/4W	[M]
R51	ERDS2TJ101T	100 1/4W	[M]
R52	ERDS2TJ101T	100 1/4W	[M]
R101	ERDS2TJ392T	3.9K 1/4W	[M]
R102	ERDS2TJ222T	2.2K 1/4W	[M]
R103	ERDS2TJ102T	1K 1/4W	[M]
R104	ERDS2TJ104T	100K 1/4W	[M]
R105	ERDS2TJ560T	56 1/4W	[M]
R106	ERDS2TJ271T	270 1/4W	[M]
R107	ERDS2TJ103T	10K 1/4W	[M]
R108	ERDS2TJ123T	12K 1/4W	[M]
R111	ERDS2TJ564T	560K 1/4W	[M]
R112	ERDS2TJ472T	4.7K 1/4W	[M]
R113	ERDS2TJ473T	47K 1/4W	[M]
R116	ERDS2TJ103T	10K 1/4W	[M]
R131	ERDS2TJ153T	15K 1/4W	[M]
R142	ERDS2TJ393T	39K 1/4W	[M]
R144	ERD2FCVJ4R7T	4.7 1/4W	[M]
R146	ERD2FCVJ4R7T	4.7 1/4W	[M]
R152	ERDS2TJ222T	2.2K 1/4W	[M]
R160	ERDS2TJ103T	10K 1/4W	[M]
R161	ERDS2TJ181T	180 1/4W	[M]
R201	ERDS2TJ392T	3.9K 1/4W	[M]
R202	ERDS2TJ222T	2.2K 1/4W	[M]
R203	ERDS2TJ102T	1K 1/4W	[M]
R204	ERDS2TJ104T	100K 1/4W	[M]
R205	ERDS2TJ560T	56 1/4W	[M]
R206	ERDS2TJ271T	270 1/4W	[M]
R207	ERDS2TJ103T	10K 1/4W	[M]
R208	ERDS2TJ123T	12K 1/4W	[M]
R211	ERDS2TJ564T	560K 1/4W	[M]
R212	ERDS2TJ472T	4.7K 1/4W	[M]
R213	ERDS2TJ473T	47K 1/4W	[M]
R216	ERDS2TJ103T	10K 1/4W	[M]
R231	ERDS2TJ153T	15K 1/4W	[M]
R242	ERDS2TJ393T	39K 1/4W	[M]
R244	ERD2FCVJ4R7T	4.7 1/4W	[M]
R246	ERD2FCVJ4R7T	4.7 1/4W	[M]
R252	ERDS2TJ222T	2.2K 1/4W	[M]
R260	ERDS2TJ103T	10K 1/4W	[M]
R261	ERDS2TJ181T	180 1/4W	[M]
R307	ERDS2TJ221T	220 1/4W	[M]
R313	ERDS1FVJ2R7T	2.7 1/2W	[M] △
R319	ERDS2TJ101T	100 1/4W	[M]
R321	ERDS2TJ471T	471 1/4W	[M]
R322	ERDS2TJ105T	1M 1/4W	[M]
R323	ERDS2TJ333T	33K 1/4W	[M]
R324	ERDS2TJ100T	10 1/4W	[M]
R325	ERDS2TJ221T	220 1/4W	[M]
R326	ERDS2TJ104T	100K 1/4W	[M]
R330	ERDS2TJ222T	2.2K 1/4W	[M]
R333	ERDS2TJ222T	2.2K 1/4W	[M]
R334	ERDS2TJ101T	100 1/4W	[M]
R335	ERDS2TJ152T	1.5K 1/4W	[M]
R336	ERDS2TJ471T	470 1/4W	[M]
R337	ERDS2TJ332T	3.3K 1/4W	[M]
R338	ERDS2TJ123T	12K 1/4W	[M]
R342	ERDS2TJ472T	4.7K 1/4W	[M]
R343	ERDS2TJ471T	470 1/4W	[M]
R347	ERDS2TJ103T	10K 1/4W	[M]
R353	ERDS2TJ680T	68 1/4W	[M]
R354	ERDS2TJ181T	180 1/4W	[M]
R355	ERDS2TJ473T	47K 1/4W	[M]
R356	ERDS2TJ181T	180 1/4W	[M]
R357	ERDS2TJ683T	68K 1/4W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R358	ERDS2TJ104T	100K 1/4W	[M]
R359	ERDS2TJ183T	18K 1/4W	[M]
R360	ERDS2TJ683T	68K 1/4W	[M]
R361	ERDS2TJ683T	68K 1/4W	[M]
R363	ERDS2TJ222T	2.2K 1/4W	[M]
R364	ERDS2TJ391T	390 1/4W	[M]
R371	ERDS2TJ101T	100 1/4W	[M]
R372	ERDS2TJ222T	2.2K 1/4W	[M]
R385	ERDS2TJ683T	68K 1/4W	[M]
R386	ERDS2TJ101T	100 1/4W	[M]
R390	ERDS2TJ182T	1.8K 1/4W	[M]
R391	ERDS2TJ103T	10K 1/4W	[M]
R406	ERDS1FVJ2R7T	2.7 1/2W	[M] △
R901	ERDS2TJ473T	47K 1/4W	[M]
R902	ERDS2TJ222T	2.2K 1/4W	[M]
		CAPACITORS	
C1	ECBT1H100JC5	10P 50V	[M]
C2	ECBT1H473ZF5	0.047 50V	[M]
C3	ECBT1H150JC5	15P 50V	[M]
C4	ECFR1C473MR	0.047 16V	[M]
C5	ECBT1H102KB5	1000P 50V	[M]
C6	ECBT1C182KR5	1800P 16V	[M]
C7	RCEA1HU4R7BK	4.7 50V	[M]
C8	ECBT1H470J5	47P 50V	[M]
C9	ECFR1C153KR	0.015 16V	[M]
C10	ECFR1C153KR	0.015 16V	[M]
C11	RCEA1HKA22B	22 50V	[M]
C12	RCEA1HKA3R3B	3.3 50V	[M]
C13	ECBT1H473ZF5	0.047 50V	[M]
C14	RCEA1CKA220B	22 16V	[M]
C15	RCEA1CKA100B	10 16V	[M]
C16	RCEA1CKA100B	10 16V	[M]
C17	RCEA1AM471BK	470 10V	[M]
C18	ECBT1H200JC5	20P 50V	[M]
C21	ECBT1H120JR5	12P 50V	[M] GC
C21	ECBT1H150JC5	15P 50V	[M] GU
C22	ECBT1C103NS5	0.01 16V	[M]
C23	ECBT1H104ZF5	0.1 50V	[M]
C24	ECBT1H473ZF5	0.047 50V	[M]
C26	ECBT1C103NS5	0.01 16V	[M]
C27	ECBT1H102KB5	1000P 50V	[M]
C30	ECBT1H8R2KC5	8.2P 50V	[M]
C31	ECBT1H3R3KC5	3.3P 50V	[M]
C33	ECFR1C223MR	0.022 16V	[M]
C34	ECBT1H4R7KC5	4.7P 50V	[M]
C36	ECQP2A361JZT	360P 100V	[M]
C37	ECQP2A152JZT	1500P 100V	[M]
C38	ECQP2A472JZT	4700P 100V	[M]
C41	ECBT1H390J5	39P 50V	[M]
C42	ECBT1H150JC5	15P 50V	[M]
C43	ECBT1H100JC5	10P 50V	[M] GC
C43	ECBT1H6R8KC5	6.8 50V	[M] GU
C50	ECBT1C103MS5	0.01 16V	[M]
C51	ECBT1C103MS5	0.01 16V	[M]
C52	ECBT1C103MS5	0.01 16V	[M]
C61	ECBT1H3R3KC5	3.3 50V	[M] GU
C61	ECBT1H3R9KC5	3.9P 50V	[M] GC
C68	ECBT1H470J5	47P 50V	[M]
C69	ECBT1H100JC5	10P 50V	[M] GC
C102	ECFR1C333KR	0.033 16V	[M]
C103	ECBT1C222KR5	2200P 16V	[M]
C104	RCEA1CKA100B	10 16V	[M]
C105	ECBT1H331KB5	330P 50V	[M]
C108	ECBT1C222KR5	2200P 50V	[M]
C109	ECBT1C103MS5	0.01 16V	[M]
C110	RCEA1AM101BK	100P 10V	[M]
C114	ECBT1H561KB5	560P 50V	[M]
C135	ECBT1H102KB5	1000P 50V	[M]
C140	ECBT1H471KB5	470P 50V	[M]
C141	RCEA1HKA2R2B	2.2 50V	[M]
C142	ECQV1H104JZ3	0.1 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C143	ECQV1H104JZ3	0.1 50V	[M]
C160	RCEA1CKA100B	10 16V	[M]
C202	ECFR1C333KR	0.033 16V	[M]
C203	ECBT1C222KR5	2200P 16V	[M]
C204	RCEA1CKA100B	10 16V	[M]
C205	ECBT1H331KB5	330P 50V	[M]
C208	ECBT1C222KR5	2200P 16V	[M]
C209	ECBT1C103MS5	0.01 16V	[M]
C210	RCEA1AM101BK	100P 10V	[M]
C214	ECBT1H561KB5	560P 50V	[M]
C235	ECBT1H102KB5	1000P 50V	[M]
C240	ECBT1H471KB5	470P 50V	[M]
C241	RCEA1HKA2R2B	2.2 50V	[M]
C242	ECQV1H104JZ3	0.1 50V	[M]
C243	ECQV1H104JZ3	0.1 50V	[M]
C260	RCEA1CKA100B	10 16V	[M]
C311	RCEA1CM330BK	33 16V	[M]
C312	RCEA1AM471BK	470P 10V	[M]
C313	RCEA1HKA3R3B	3.3 50V	[M]
C321	ECBT1H102KB5	1000P 50V	[M]
C322	ECFR1C223MR	0.022 16V	[M]
C323	RCEA1AM101BK	100 10V	[M]
C324	ECQP2A152JZT	1500P 100V	[M]
C325	ECQP2A121GZT	120P 100V	[M]
C327	ECBT1C103MS5	0.01 16V	[M]
C330	ECFR1C333KR	0.033 16V	[M]
C332	RCEA1CM330BK	33 16V	[M]
C333	RCEA1HKA47B	0.47 50V	[M]
C334	RCEA1AM101BK	100 10V	[M]
C341	RCEA1CM101BK	100 16V	[M]
C343	RCEA1CKA470B	47 16V	[M]
C344	RCEA1HKA47B	0.47 50V	[M]
C352	RCEA1CKA101B	100 16V	[M]
C354	RCEA1AKA220B	22 10V	[M]
C355	RCEA1CKA101B	100 16V	[M]
C357	RCEA1HKA0R1B	0.1 50V	[M]
C358	RCEA1HKA4R7B	4.7 50V	[M]
C359	ECBT1C332MR5	3300P 16V	[M]
C371	RCEA1EM472EB	4700P 25V	[M]
C372	RCEA1CKA470B	47 16V	[M]
C373	ECBT1C103MS5	0.01 16V	[M]
C383	RCEA1CKA100B	10 16V	[M]
C384	RCEA1EM101BK	100 25V	[M]
C602	ECBT1C103MS5	0.01 16V	[M]
C606	ECBT1H104ZF5	0.1 50V	[M]
C607	ECBT1C103MS5	0.01 16V	[M]
C608	ECBT1H104ZF5	0.1 50V	[M]
C609	ECBT1C103MS5	0.01 16V	[M]
C610	ECBT1C682KR5	6800P 16V	[M]
C611	ECBT1C472KR5	4700P 16V	[M]
C701	RCEA1HKA0R1B	0.1 50V	[M]
C702	RCEA1HKA0R1B	0.1 50V	[M]
C703	ECBT1H561KB5	560P 50V	[M]
C801	RCEA1HKA0R1B	0.1 50V	[M]
C802	RCEA1HKA0R1B	0.1 50V	[M]
C803	ECBT1H561KB5	560P 50V	[M]
C901	ECKR1H103ZF5	0.01 50V	[M]
C902	ECKR1H103ZF5	0.01 50V	[M]
C903	ECKR1H103ZF5	0.01 50V	[M]
C904	ECKR1H103ZF5	0.01 50V	[M]

## 12.4. Packing Materials & Accessories Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		PACKING MATERIALS	
P1	RPG6110	PACKING CASE	[M] GC
P1	RPG6111	PACKING CASE	[M] GU
P2	RPNX0074	POLYFOAM	[M]
P3	RPH3SZA	MIRAMAT SHEET	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
		ACCESSORIES	
A1	RJA0019-2K	AC CORD (SF)	[M] 
A2	RQT4237-3G	O/I BOOK	[M]
A3	RJP1SG05-Z	AC ADAPTOR	[M]

## 12.5. Packaging

### Accessory case

A1: AC Cord

A2: O/I Book

A3: AC Plug Adaptor

