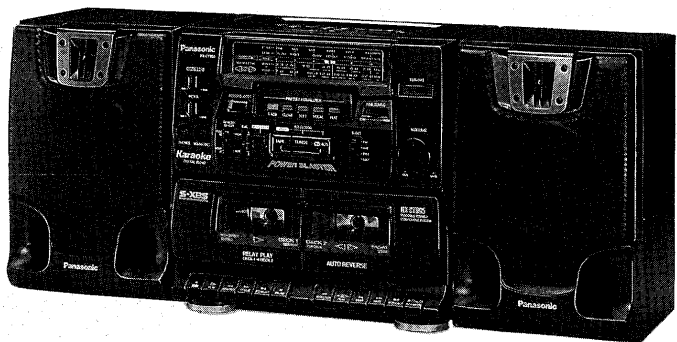


Service Manual

Portable Stereo Component System

Radio Cassette

RX-CT895



Colour (K)Black Type

Areas
(GC)Saudi Arabia, Kuwait,
Singapore, Malaysia

(GU)Asia, Latin America,
Middle East and Africa

TAPE DECK : WSC48 MECHANISM SERIES

Specifications

Radio

Frequency range

FM	88 – 108 MHz
MW	530 – 1650 kHz
SW1	2.3 – 7.0 MHz
SW2	7.0 – 22.0 MHz

Intermediate frequency

FM	10.7 MHz
AM	450 kHz

Sensitivity

FM	3.55 μ V/50mW output (– 3dB limit sens.)
MW	178 μ V/50mW output
SW1	199.5 μ V/50mW output
SW2	15.85 μ V/50mW output

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 – 127V/200 – 220V/ 230 – 250V, 50/60 Hz
	Power consumption: 50W

Battery 12V (Eight R20/LR20, D, UM-1 batteries)
• Do Not use rechargeable type batteries.

Power Output

330W (165 W $\times$ 2) ...PMPO
27W ... RMS (max.)

Speakers

2 Woofer; 12 cm
2 Tweeter; 1.5cm

Jacks

Input	CD/LINE IN: – 14dB/49k Ω
Output	SPEAKER: 6 – 16 Ω Headphones; 32 Ω

Dimensions

(W $\times$ H $\times$ D)	614 $\times$ 255 $\times$ 215 mm
	Main unit; 283 $\times$ 255 $\times$ 215 mm
	Speaker box; 174 $\times$ 254 $\times$ 189 mm
	6.7 kg without batteries

Weight

Note:

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

⚠ 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®

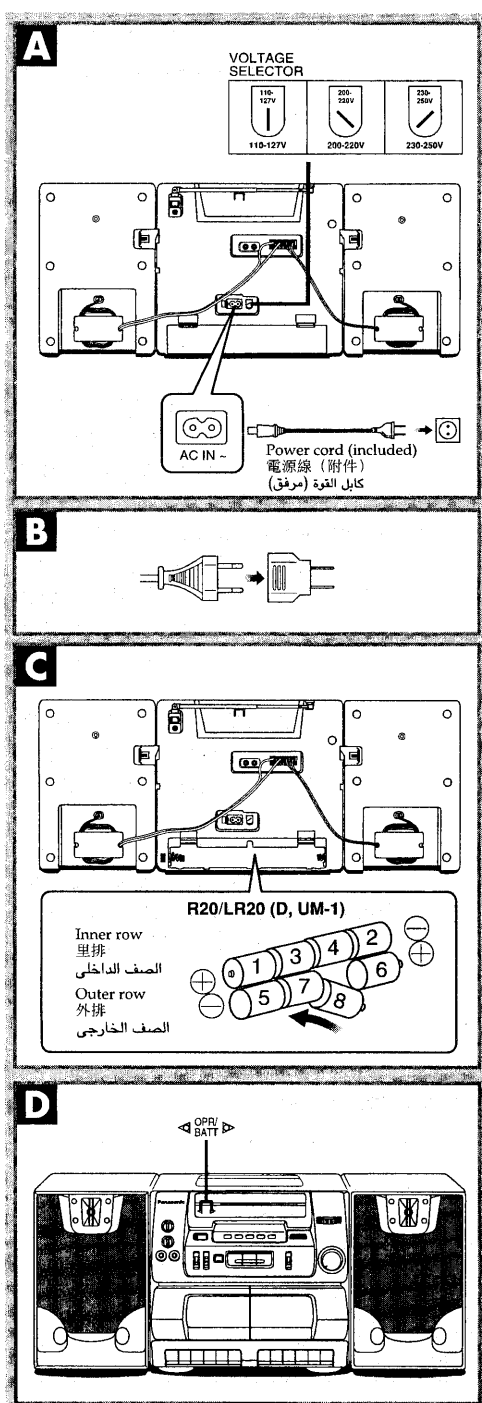
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Power Source



Operating unit on AC power **A**

- ① Set the voltage. Use a flat-head screw-driver to turn the voltage selector on the rear to the voltage setting for the area in which you will be using the system.
- ② Connect the included AC power cord to the AC IN socket of the unit and your household AC outlet.

If the power plug will not fit your socket, use the power plug adaptor (included) as illustrated. **B**

Operating unit on battery power (Not included)

Battery installation and removal **C**

Place unit on a soft cloth when installing and removing batteries to avoid damaging the front panel.

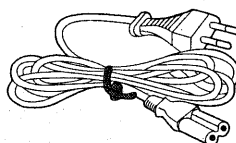
- ① Disconnect the AC power cord.
- ② Open the battery cover on the rear panel.
- ③ Install batteries in the order indicated in the diagram.

Battery life **D**

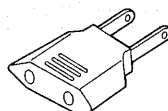
When the OPR/BATT indicator goes off (or dims) during play, replace all the batteries with new ones.

Accessories

- AC Power Cord { RJA0019-X (GC area)1 pc
RJA0004 (GU area) }

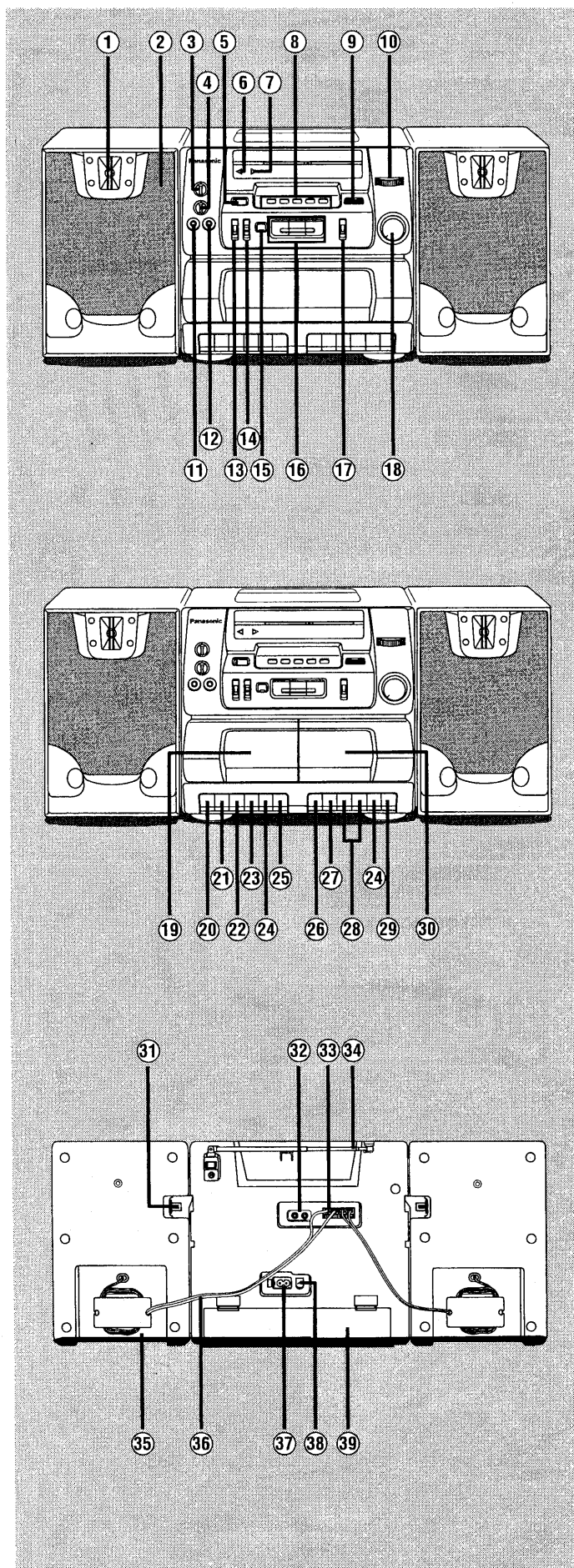


- AC plug adaptor { SJP5213-2 (GC area)1 pc
SJP1SG02-H (GU area) }



- KARAOKE MICROPHONE (RJM0014) 1 pc

Location of Controls



Basic/Tuner controls

- ① Speakers (Tweeter)
- ② Speakers (Woofer)
- ③ Microphone echo level control (**DIGITAL ECHO**)
- ④ Microphone volume level control (**MIC VOL**)
- ⑤ Power blaster button (**POWER BLASTER**)
- ⑥ Operation/battery check/deck 2 tape direction indicator (**REV**)
- ⑦ Operation/battery check/deck 2 tape direction indicator (**FWD**)
- ⑧ Preset equalizer buttons (**PRESET EQUALIZER**)
- ⑨ Fine tuning control (**FINE TUNING**)
- ⑩ Tuning control (**TUNING**)
- ⑪ Headphones jack (**PHONES**)
- ⑫ Microphone jack (**MIXING MIC**)
- ⑬ FM mode/beat proof/edit recording speed selector (**FM MODE/BP/EDIT**)
- ⑭ Balance control (**BAL**)
- ⑮ Voice mute button (**VOICEMUTE**)
- ⑯ Function selector (**SELECTOR**)
- ⑰ Band selector (**BAND**)
- ⑱ Volume control (**VOLUME**)

Cassette deck controls

- ⑲ Deck 1 cassette holder (**DECK 1**)
- ⑳ Recording button (**REC**)
- ㉑ Playback button (**PLAY**)
- ㉒ Rewind/review button (**REW/REV**)
- ㉓ Fast forward/cue button (**FF/CUE**)
- ㉔ Stop/eject button (**STOP/EJECT**)
- ㉕ Pause button (**PAUSE**)
- ㉖ Direction button (**DIRECTION**)
- ㉗ Playback button (**PLAY**)
- ㉘ Rewind/fast forward buttons (**FAST, FAST**)
- ㉙ Reverse mode button (**REV MODE**)
- ㉚ Deck 2 cassette holder (**DECK 2**)

Rear Panel Section

- ⑳ Speaker release levers (**RELEASE**)
- ㉑ CD/LINE input jacks (**CD/LINE IN**)
- ㉒ Speaker terminals (**SPEAKER**)
- ㉓ Telescopic antenna
- ㉔ Speaker cable compartments
- ㉕ Speaker cables
- ㉖ AC socket (**AC IN-**)
- ㉗ Voltage selector (**VOLTAGE SELECTOR**)
- ㉘ Battery compartment cover

■ Operation Checks and Main Component Replacement Procedures

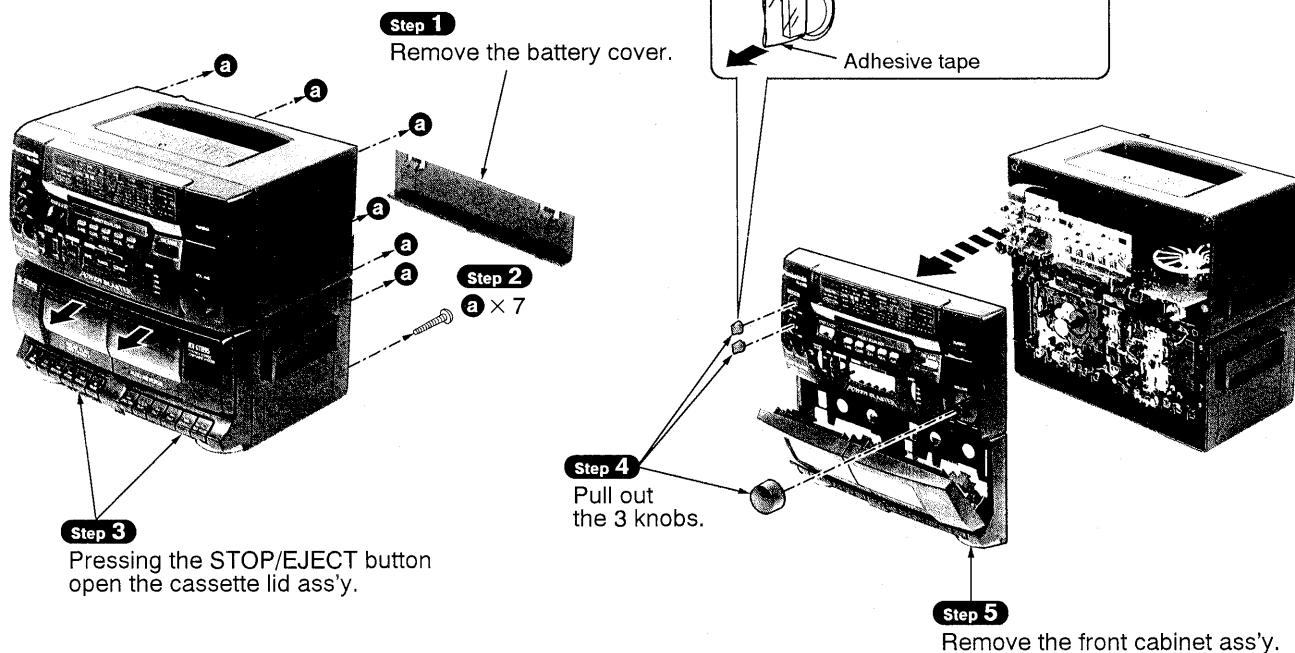
- NOTE**
1. This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.
 2. For reassembly after operation checks or replacement, reverse the respective procedures. Special reassembly procedures are described only when required.
 3. Select items from the following index when checks or replacement are required.
 4. Refer the parts No. on the page of "Main Component Replacement Procedures", if necessary.

● Contents

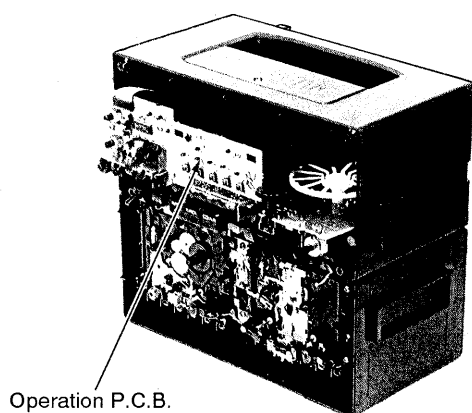
• Checking Procedure for each P.C.B.	Page.
1. Checking for the operation P.C.B..	4,5.
2. Checking for the motor P.C.B..	5.
3. Checking for the main P.C.B..	5,6.
• Main Component Replacement Procedures	
1. Replacement for the REC/PLAY head, head block ass'y, erase head, pinch arm ass'y and pinch roller ass'y.	6,7.
2. Replacement for the belt and motor ass'y.	7,8.
3. Replacement for the cassette lid ass'y.	9.
4. Replacement for the cassette holder.	9.
5. Replacement for the speaker (Woofer).	9.
6. Replacement for the speaker (Tweeter).	10.
• Measure for tape trouble	10.

■ Checking Procedure for each P.C.B.

1. Checking for the operation P.C.B.



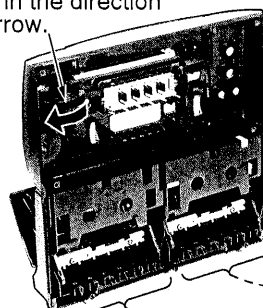
- Check the operation P.C.B. as shown below.



■ Installation of the front cabinet ass'y (Point "0" Adjustment)

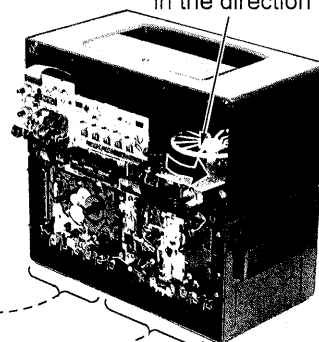
Step 2

Rotate the tuning knob fully in the direction of arrow.



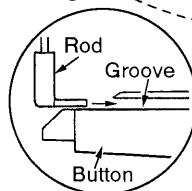
Step 1

Rotate the varicon gear in the direction of arrow.



Step 3

Align the rod with groove of button, and then install the front cabinet ass'y to the unit.



2. Checking for the motor P.C.B.

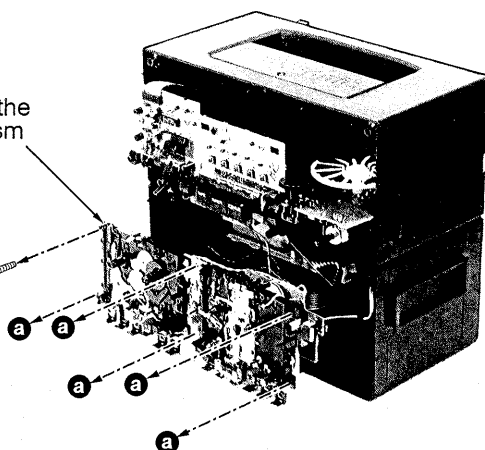
- Follow the item 1 (**Step 1** ~ **Step 5**) in checking procedures for each P.C.B. on page 4.

Step 2

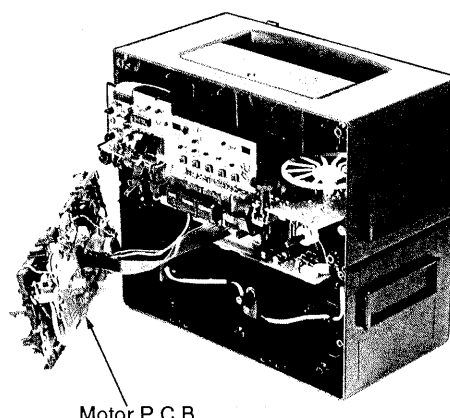
Remove the mechanism unit.

Step 1

a × 6

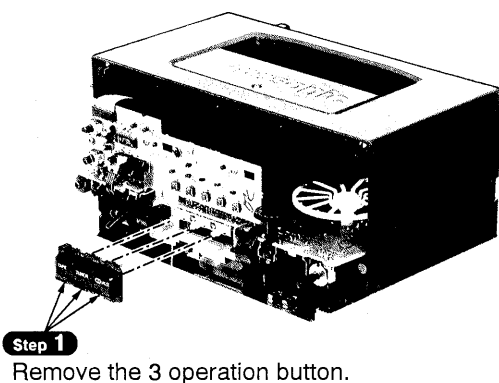


- Check the motor P.C.B. as shown below.



3. Checking for the main P.C.B.

- Follow the item 1 (**Step 1** ~ **Step 5**) in checking procedures for each P.C.B. on page 4.
- Follow the item 2 (**Step 1** , **Step 2**) in checking procedures for each P.C.B. on page 5.



Step 4

b × 4

Step 2

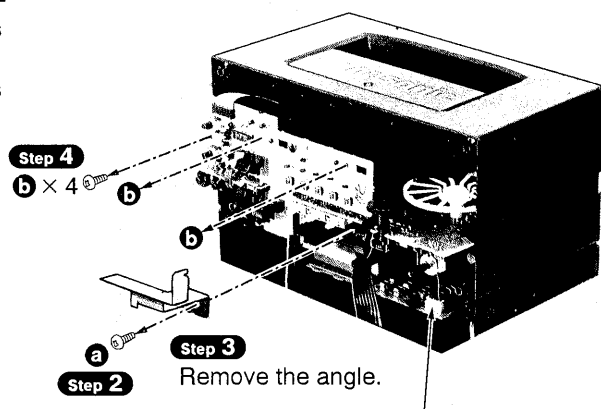
a

Step 3

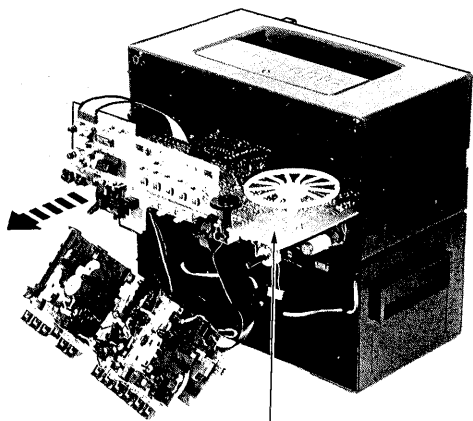
Remove the angle.

Step 5

Remove the connector (CP501).

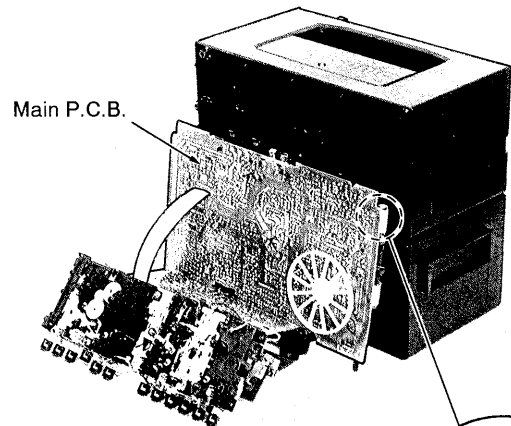


- Check the main P.C.B. as shown below.



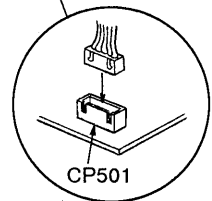
Step 6

Pull out the main P.C.B..



Step 7

Connect the connector (CP501).

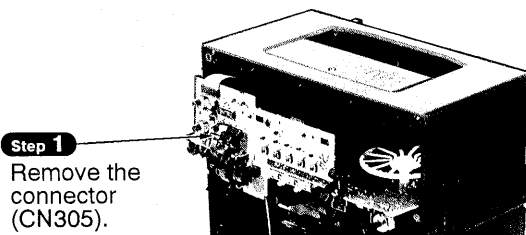


CP501

Main Component Replacement Procedures

1. Replacement for the REC/PLAY head, head block ass'y erase head, pinch arm ass'y and pinch roller ass'y

- Follow the item 1 (**Step 1** ~ **Step 5**) in checking procedures for each P.C.B. on page 4.
- Follow the item 2 (**Step 1** , **Step 2**) in checking procedures for each P.C.B. on page 5.
- Follow the item 3 (**Step 1** ~ **Step 4**) in checking procedures for each P.C.B. on page 5.

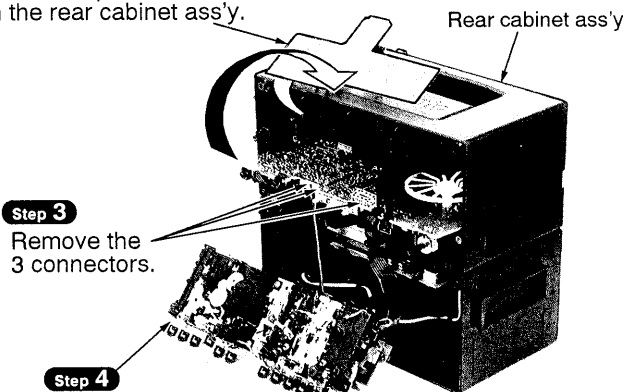


Step 1

Remove the connector (CN305).

Step 2

Place the operation P.C.B. on the rear cabinet ass'y.



Step 3

Remove the 3 connectors.

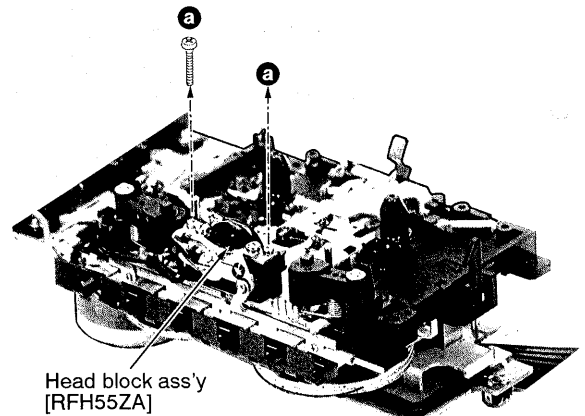
Step 4

Remove the mechanism unit.

DECK2 Side

Removal of the head block ass'y

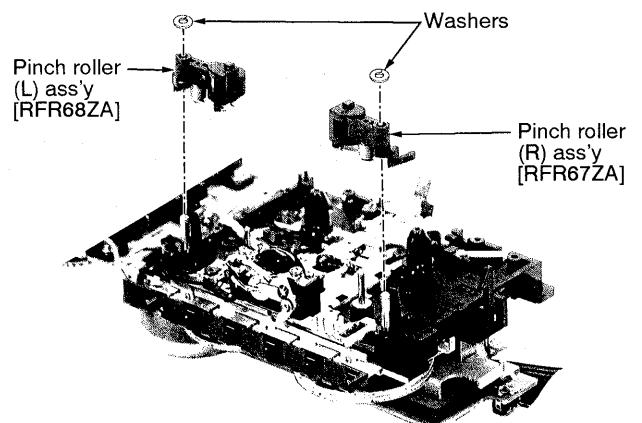
- Remove the 2 screws (a).



Head block ass'y [RFH55ZA]

Removal of the pinch roller ass'y

- Remove the 2 washers.



Pinch roller (L) ass'y [RFR68ZA]

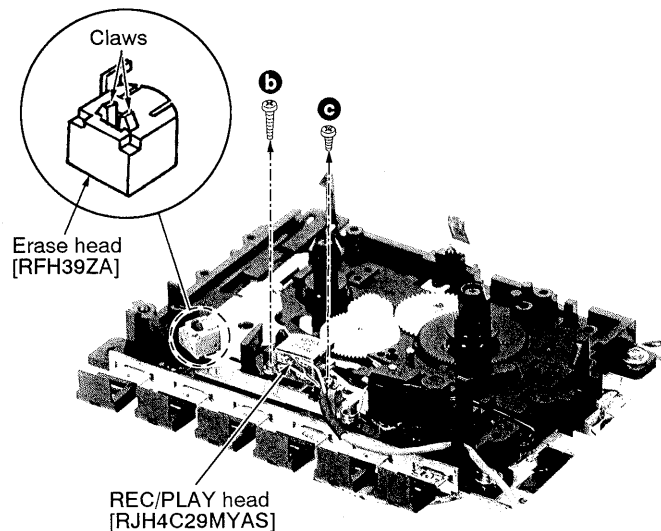
Pinch roller (R) ass'y [RFR67ZA]

DECK1 Side**■ Removal of the REC/PLAY head**

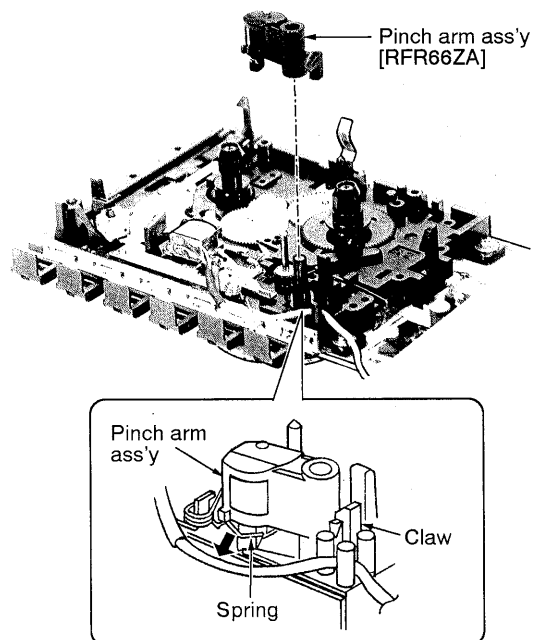
- Remove the 2 screws (**b** , **c**).

■ Removal of the erase head

- Remove the 2 claws.

**■ Removal of the pinch arm ass'y**

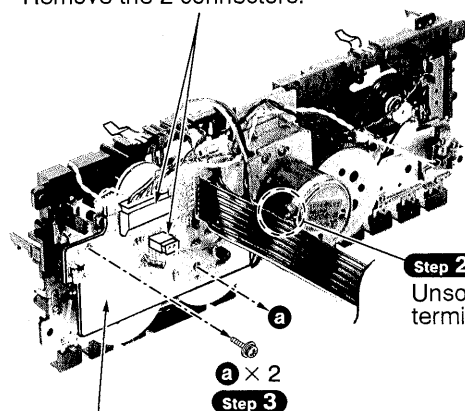
1. Remove the spring in the direction of arrow.
2. Release the 1 claw.

**2. Replacement for the belt and motor ass'y**

- Follow the item 1 (**Step 1** ~ **Step 5**) in checking procedures for each P.C.B. on page 4.
- Follow the item 2 (**Step 1** , **Step 2**) in checking procedures for each P.C.B. on page 5.
- Follow the item 3 (**Step 1** ~ **Step 4**) in checking procedures for each P.C.B. on page 5.
- Follow the item 1 (**Step 1** ~ **Step 4**) in main component replacement procedures on page 6.

Step 1

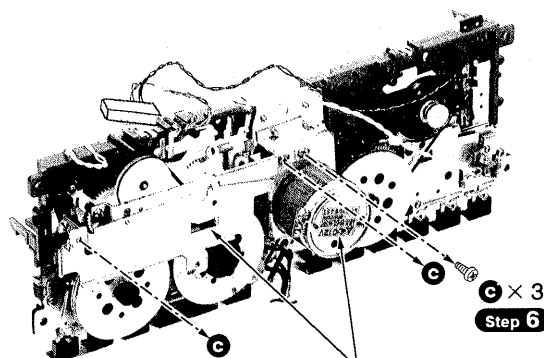
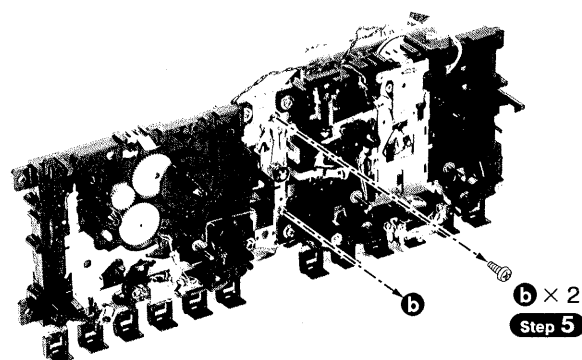
Remove the 2 connectors.

**Step 4**

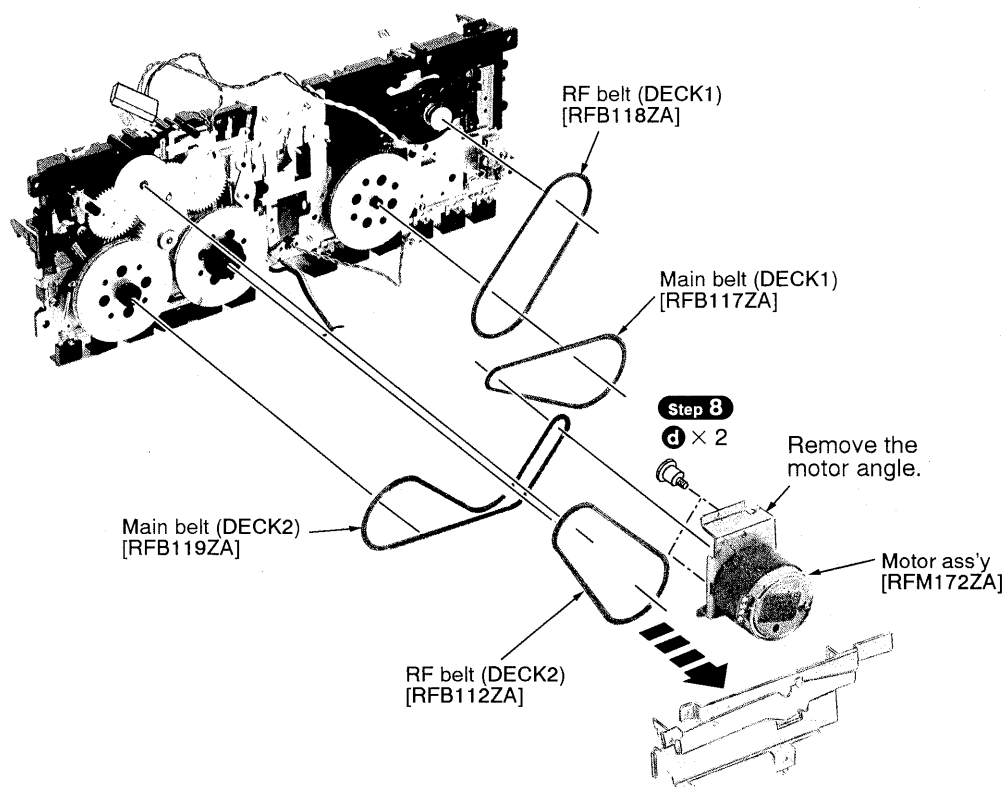
Remove the motor P.C.B..

Step 2

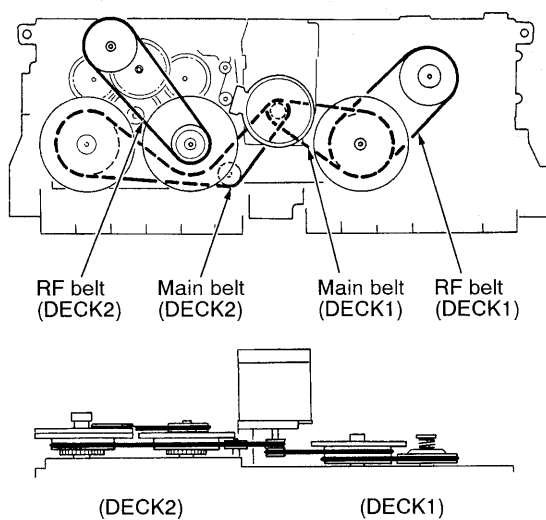
Unsolder the motor terminals. (4 points)

**Step 7**

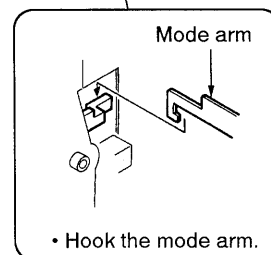
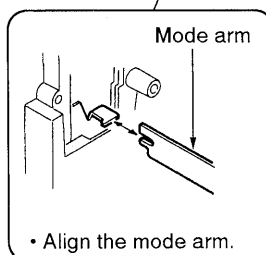
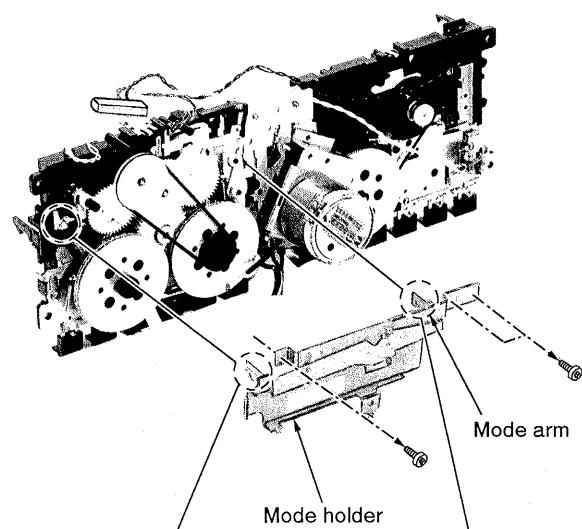
Remove the motor ass'y and mode holder.



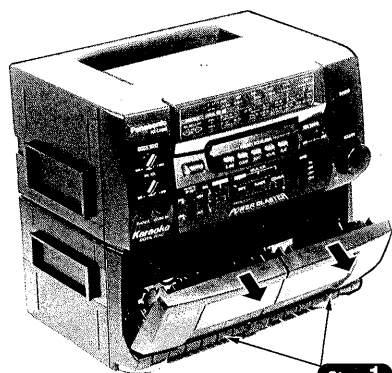
Securing the belt



Installation of the mechanism mode arm after replacement



3. Replacement for the cassette lid ass'y

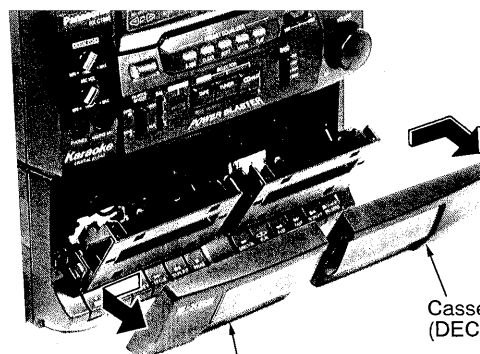


Step 1

Pressing the STOP/EJECT button open the cassette lid ass'y.

Step 2

Remove the cassette lid ass'y in the direction of arrow.



Cassette lid ass'y (DECK2)

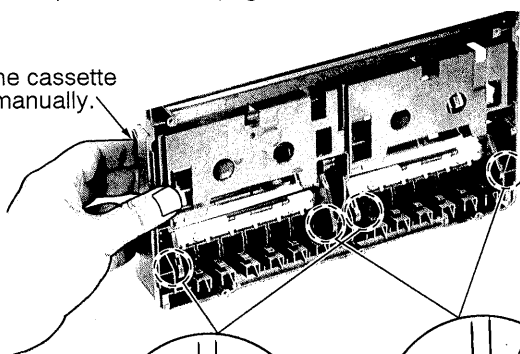
Cassette lid ass'y (DECK1)

4. Replacement for the cassette holder

- Follow the item 1 (**Step 1** ~ **Step 3**) in checking procedures for each P.C.B. on page 4.
- Follow the item 3 (**Step 1** , **Step 2**) in main component replacement procedures on page 9.

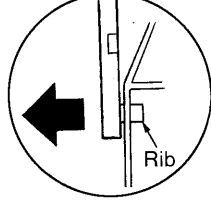
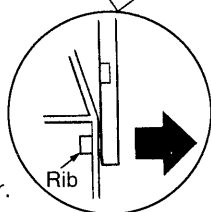
Step 1

Force the cassette holder manually.



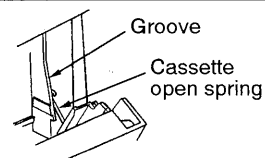
Step 2

Release the ribs of cassette holder.



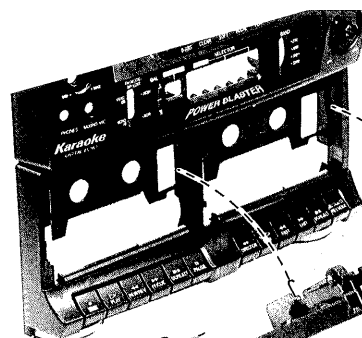
■ Notice for installation of cassette holder

The cassette open spring should be mounted in the groove firmly.



Groove

Cassette open spring



Cassette open spring

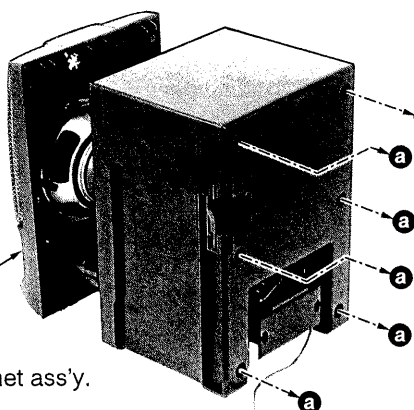
Cassette holder (DECK1)

Cassette holder (DECK1)

Step 3

Remove the cassette holder.

5. Replacement for the speaker (Woofer)



Step 2

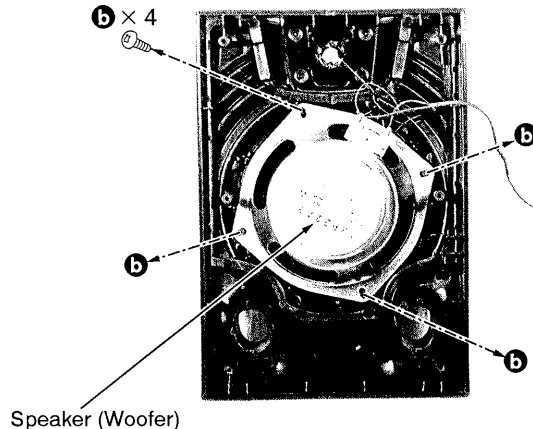
Remove the SP front cabinet ass'y.

Step 1
a × 6

Step 3
b × 4

Step 4

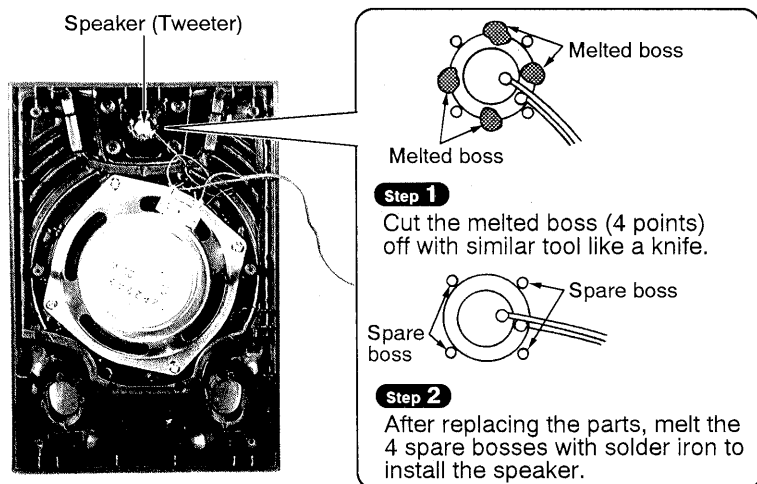
Remove the speaker (Woofer).



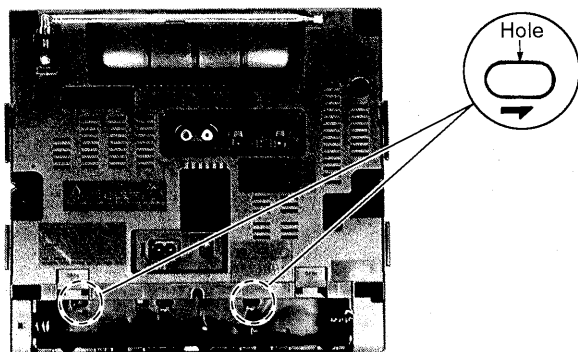
Speaker (Woofer)

6. Replacement for the speaker (Tweeter)

- Follow the item 5 (**Step 1** , **Step 2**) in main component replacement procedures on page 9.



■ Measure for tape trouble



- If a cassette tape can not be removed from the deck since it is caught by the capstan or pinch roller insert a thin driver into the hole in the back side of this unit and remove the winded tape with rotating the flywheel ass'y in the direction of arrow.

TELESCOPIC ANTENNA

FM SIGNAL

S1-8 (BAND)

FM

SW1

SW2

Z1

R4 33

TP1

TP2

CS 1000P

C21 1000P

C7 4.7P

CT1-2

VC1-2

L5

C3 22P

C5 1000P

R5 100

L6 12P

C8 4.7P

R6 50

CT1-1

VC1-1

C11

L2

C3 1000P

C11 8.2P ... (GC) 10P ... (GU)

D1 1SS254TA

FM [B] LINE

Q1 2SC829BTA

FM IF AMP

R2 330K

C65 0.01

R3 470

CF1

S1-3 (BAND)

FM

SW1

SW2

VC1-4

L3-1

CT2

C39 3.3P

CT1-4

L3-2

S1-5 (BAND)

FM

SW1

SW2

CT5

CT1-3

C61 5.6P

C37 1500P

C62 50V1

C63 50V1

R21 18K

R20 18K

R22 39K

R23 39K

D708 MA700TA

S1-6 (BAND)

FM

SW1

SW2

C42 20P

CT8

VC1-3

S1-7 (BAND)

FM

SW1

SW2

C38 4700P

CT4

L10

S1-2 (BAND)

FM

SW1

SW2

R7 68

IC2 LA1805

FM/AM IF AMP/DET/

AM OSC/MIXER/

FM MPX

MUTE

PILOT DET

VCO

TP6

VR1 R12 10K(B) 15K

C14 1500P

R15 100K

TP5

C15 50V3.3

C23 470P

TP7

C16 50V3.3

C24 25V22

T2

CF2

C24 25V22

T3

C12 1000P

C13 0.022

C20 6.3V100

C25 0.01

R11 220

R14 180

S1-1 (BAND)

FM

SW1

SW2

C26 0.01

C27 0.01

C28 50V1

R9 18K

R10 3.3K

C29 2200P

R16 4K

C28 50V1

R17 18K

C29 2200P

R18 18K

C29 2200P

R19 18K

C29 2200P

R20 18K

C29 2200P

R21 18K

C29 2200P

R22 39K

C29 2200P

R23 39K

C29 2200P

R24 39K

C29 2200P

R25 39K

C29 2200P

R26 39K

C29 2200P

R27 39K

C29 2200P

R28 39K

C29 2200P

R29 39K

C29 2200P

R30 39K

C29 2200P

R31 39K

C29 2200P

R32 39K

C29 2200P

R33 39K

C29 2200P

R34 39K

C29 2200P

R35 39K

C29 2200P

R36 39K

C29 2200P

R37 39K

C29 2200P

R38 39K

C29 2200P

R39 39K

C29 2200P

R40 39K

C29 2200P

R41 39K

C29 2200P

R42 39K

C29 2200P

R43 39K

C29 2200P

R44 39K

C29 2200P

R45 39K

C29 2200P

R46 39K

C29 2200P

R47 39K

C29 2200P

R48 39K

C29 2200P

R49 39K

C29 2200P

R50 39K

C29 2200P

R51 39K

C29 2200P

R52 39K

C29 2200P

R53 39K

C29 2200P

R54 39K

C29 2200P

R55 39K

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R56 39K

C29 2200P

R57 39K

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R67 39K

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R68 39K

C29 2200P

R69 39K

C29 2200P

R70 39K

C29 2200P

R71 39K

C29 2200P

R72 39K

C29 2200P

R73 39K

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C29 2200P

R76 39K

C29 2200P

R77 39K

C29 2200P

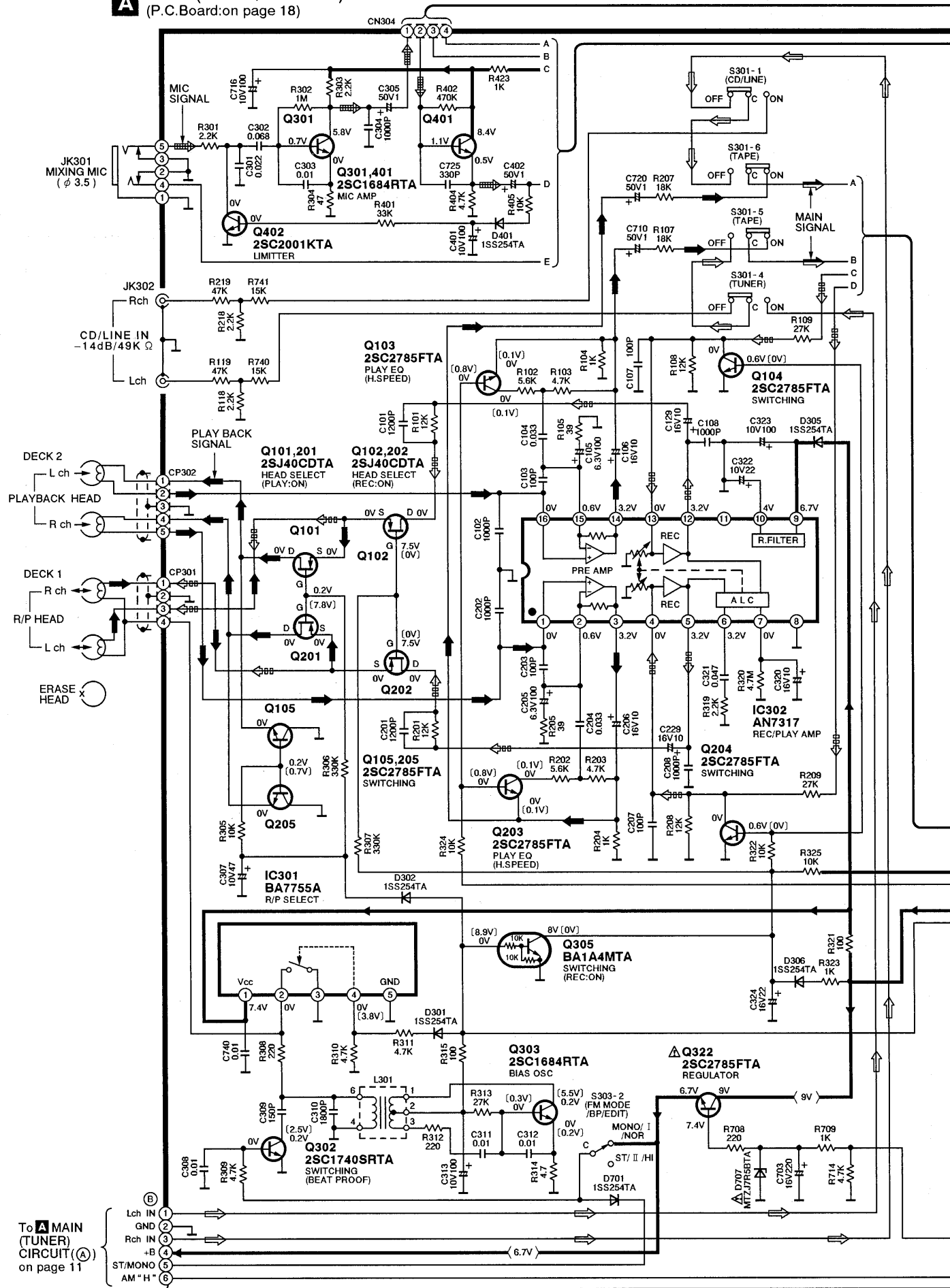
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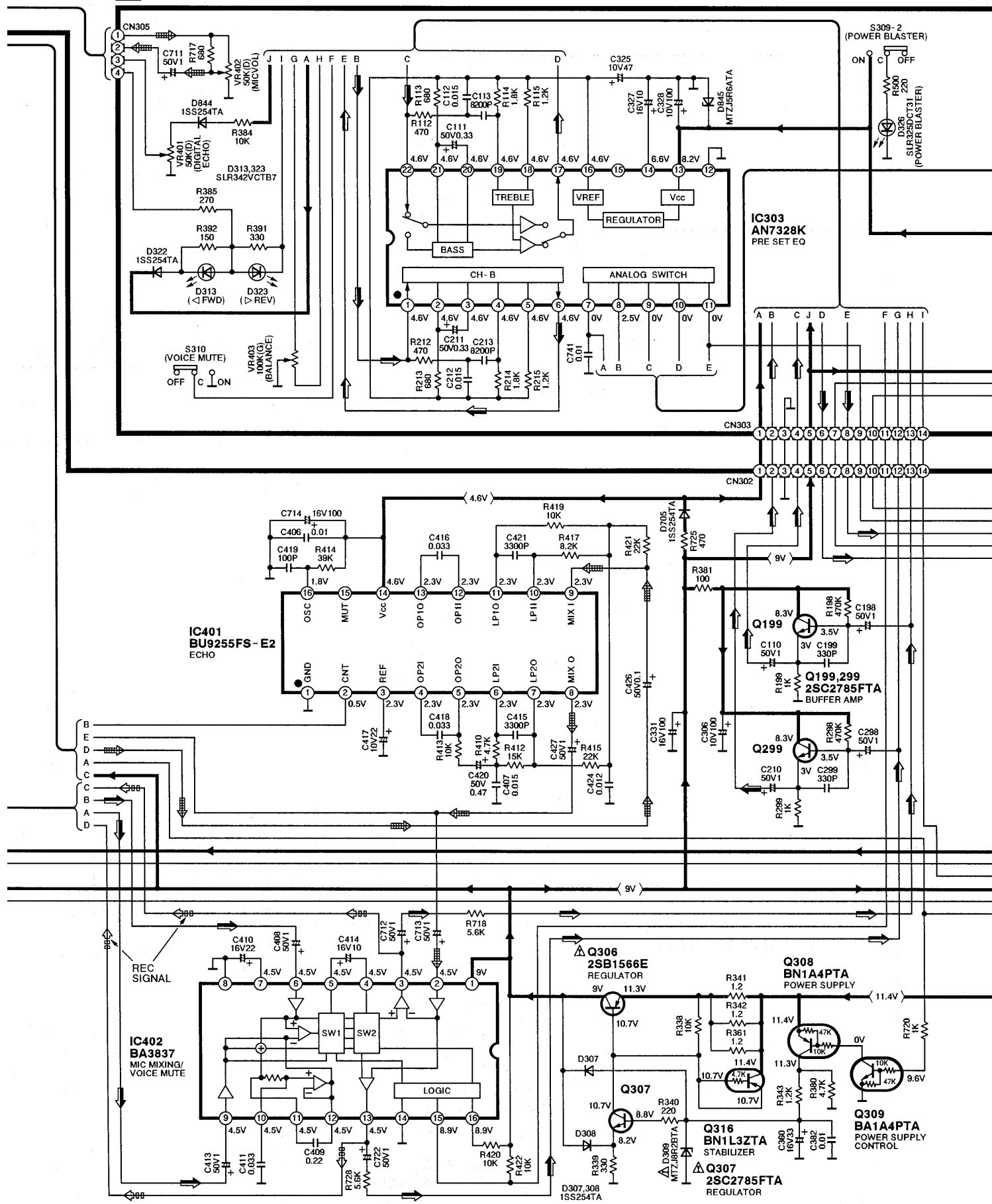
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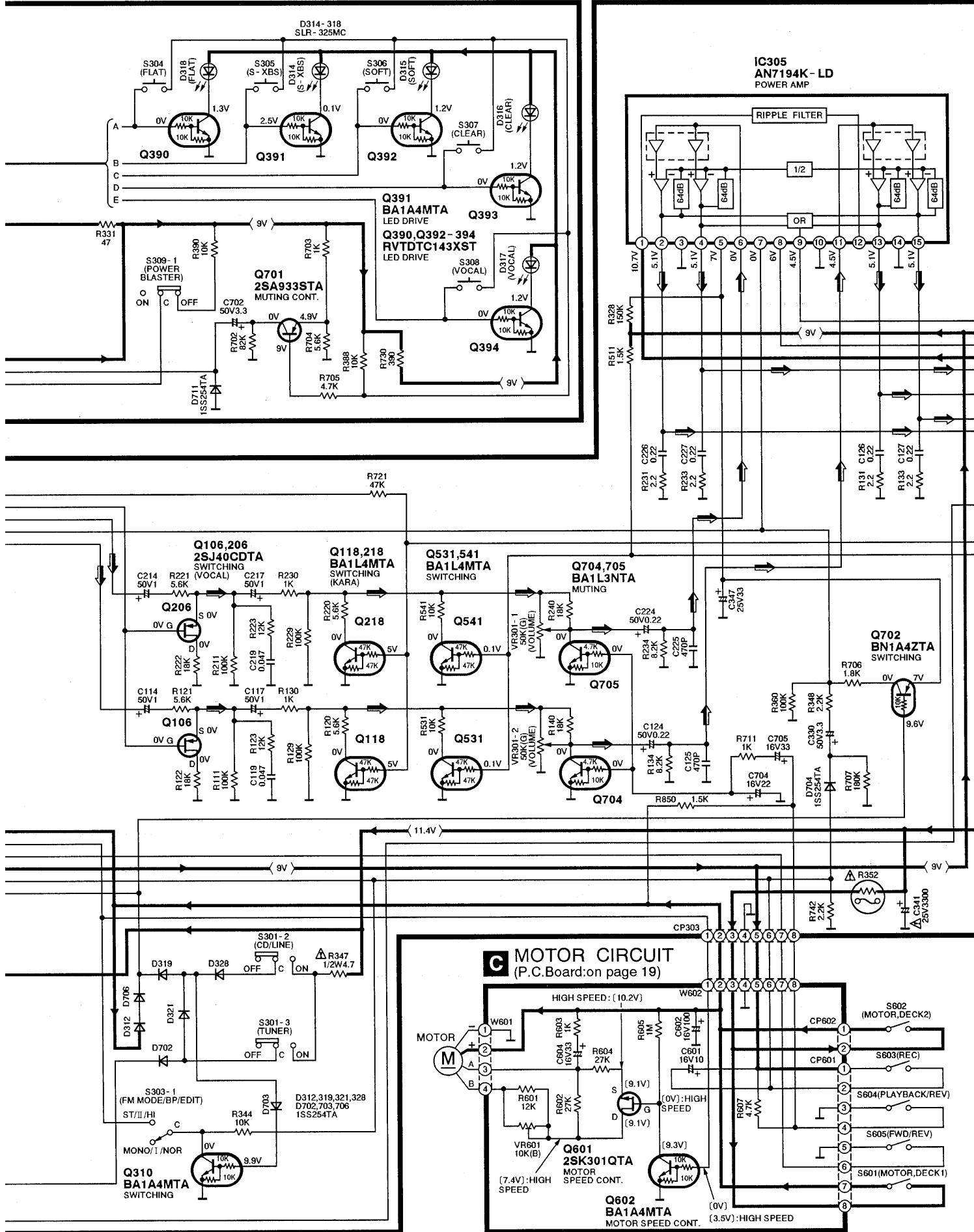
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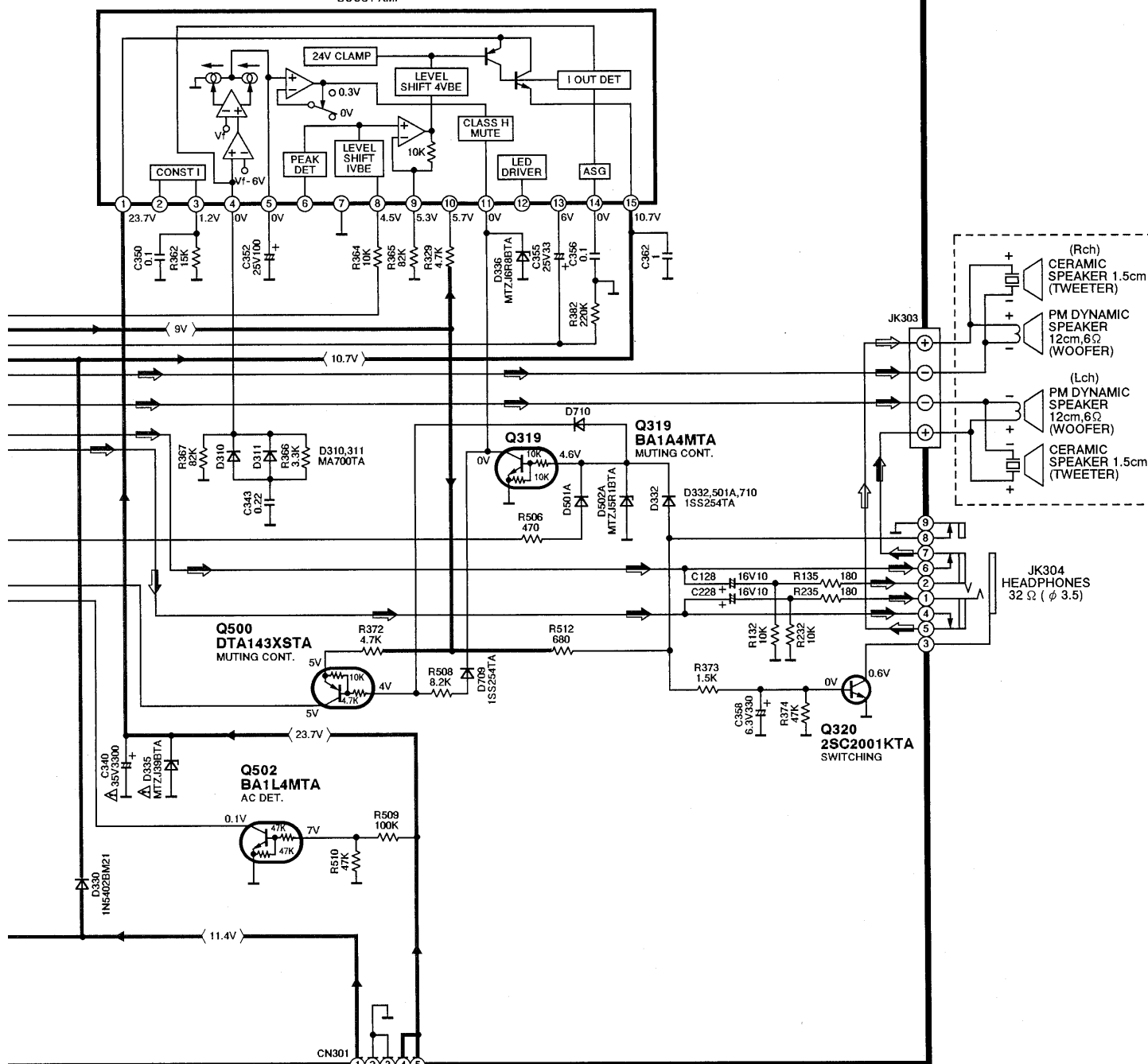
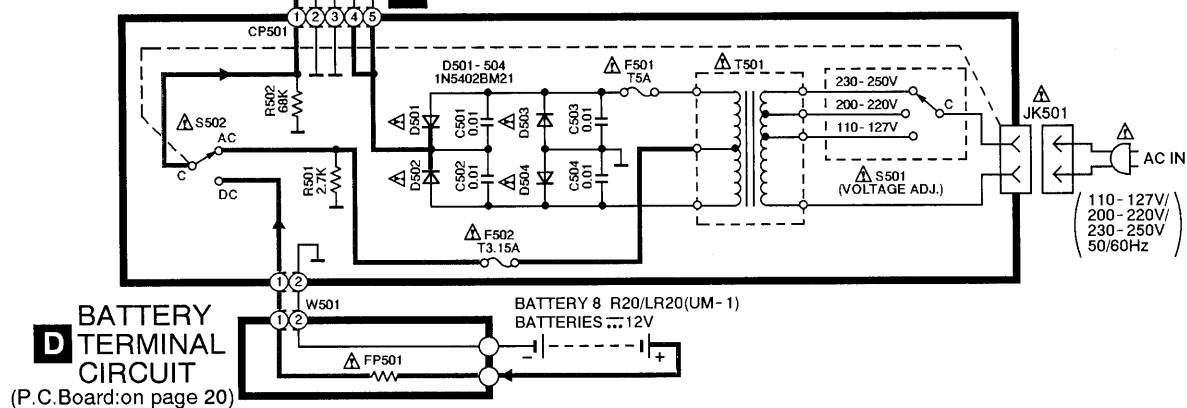
A MAIN(DECK/POWER)CIRCUIT (P.C.Board: on page 18)



B OPERATION CIRCUIT (P.C.Board: on page 19)

A MAIN(DECK/POWER) CIRCUIT



IC306
AN7077Z - LDC
BOOST AMP

E POWER SUPPLY CIRCUIT (P.C.Board: on page 20)


- Notes:**
- **S1-1 ~ S1-8:** Band selector switch in "FM" position.
 - **S301-1 ~ S301-6:** Function selector switch in "tape" position.
(S301-1, S301-2 ... CD/LINE, S301-3, S301-4 ... TUNER, S301-5, S301-6 ... TAPE)
 - **S303-1, S303-2:** FM mode/beat proof/edit recording speed selector switch in "MONO/I/NOR" position.
 - **S304:** Preset equalizer switch (FLAT).
 - **S305:** Preset equalizer switch (S-XBS).
 - **S306:** Preset equalizer switch (SOFT).
 - **S307:** Preset equalizer switch (CLEAR).
 - **S308:** Preset equalizer switch (VOCAL).
 - **S309-1, S309-2:** Power blaster switch in "OFF" position.
 - **S310:** Voice mute switch in "OFF" position.
 - **S501:** Voltage selector switch in "230 - 250V" position.
 - **S502:** AC/DC selector switch (JK501) in "AC" position.
 - **S601:** Motor switch (DECK 1).
 - **S602:** Motor switch (DECK 2).
 - **S603:** REC switch.
 - **S604:** PLAYBACK/REV switch
 - **S605:** FWD/REV switch
 - **VR1:** FM MPX adjustment VR.
 - **VR301-1, VR302-2:** Volume control VR.
 - **VR401:** Microphone echo level control VR.
 - **VR402:** Microphone volume level control VR.
 - **VR403:** Balance control VR.
 - **VR601:** Tape speed adjustment VR.

● DC voltage measurements are taken with electronics voltmeter.

The negative terminal of the battery provides negative meter connection point.

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

● Battery current:

Vol. min. ... 395 mA (FM)	Measurement instruction	Vol. max. ... 695 mA (FM)
403 mA (AM)	(AM: 74 dB/m, 30% Mod.)	693 mA (AM)
495mA (TAPE)	(FM: 60 dB, 30% Mod.)	874 mA (TAPE)
	(TAPE: 315 Hz, 0 dB)	

● 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.

● Important safety notice:

Components identified by mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

*** Caution!**

IC and LSI are sensitive to static electricity. Secondary trouble can be prevented by taking care during repair.

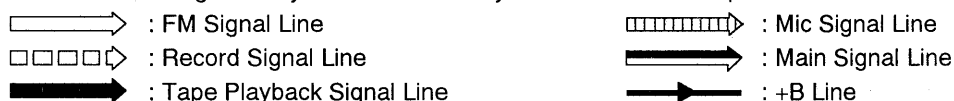
* Cover the parts boxes made of plastics with aluminum foil.

* Ground the soldering iron.

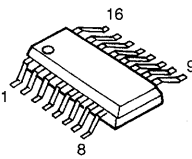
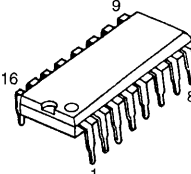
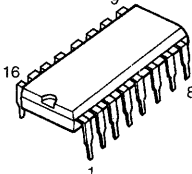
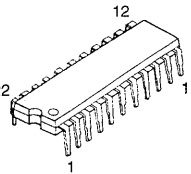
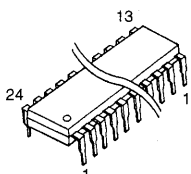
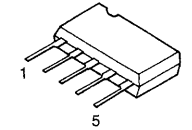
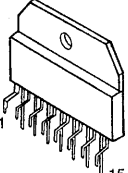
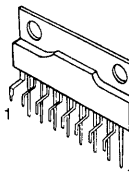
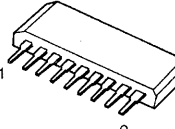
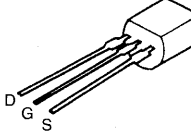
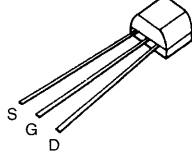
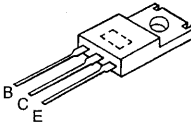
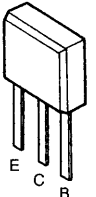
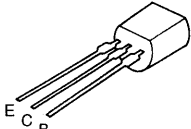
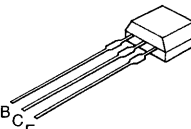
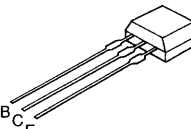
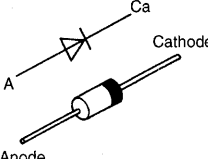
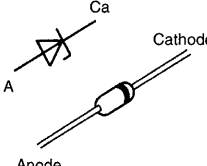
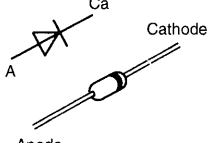
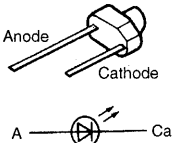
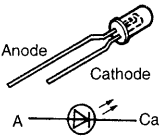
* Put a conductive mat on the work talbe.

* Do not touch the pins of IC or LSI with fingers directly.

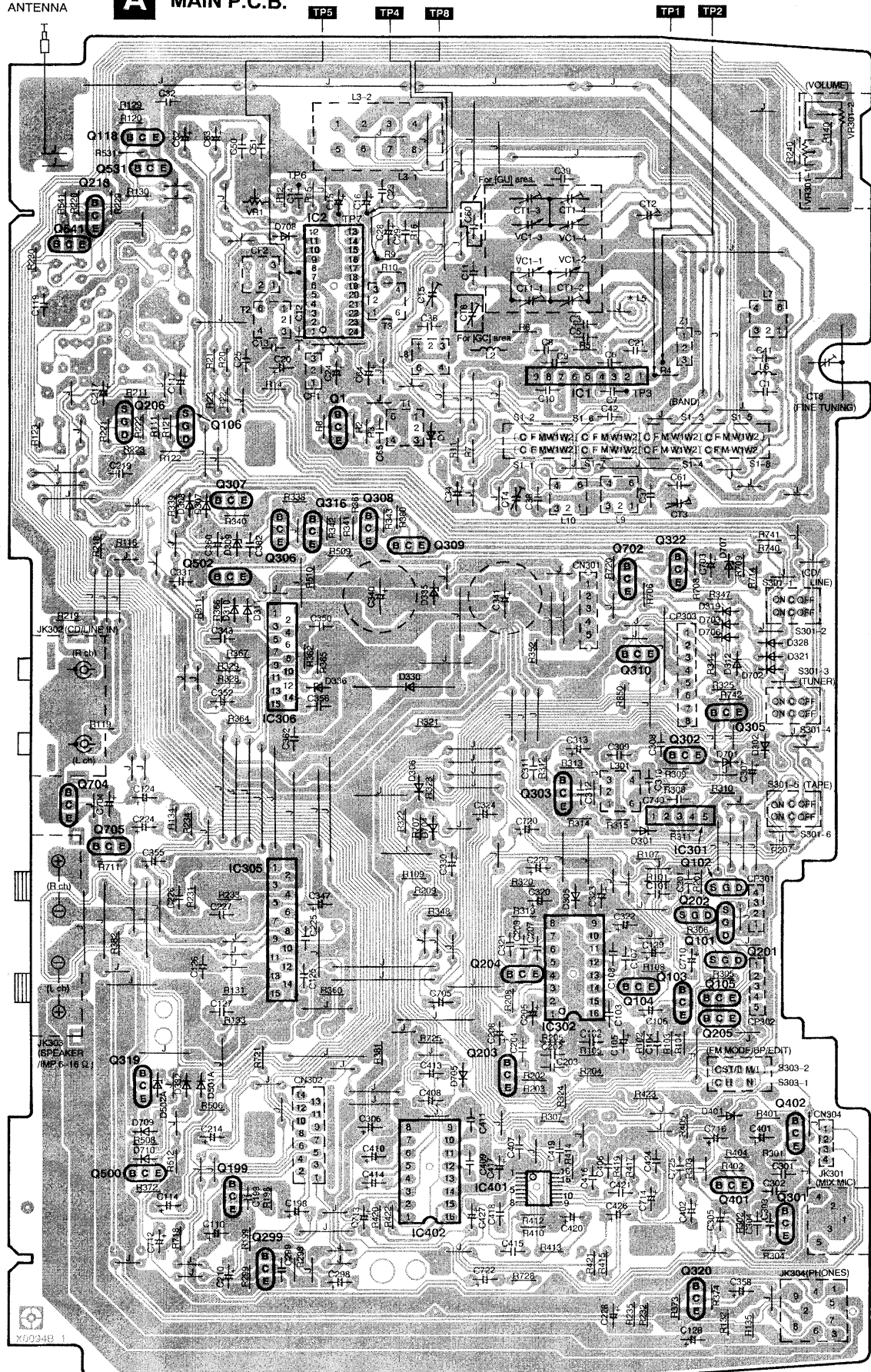
● This schematic diagram may be modified at any time with the development of new technology.



● Type Illustration of IC's Transistors and Diodes

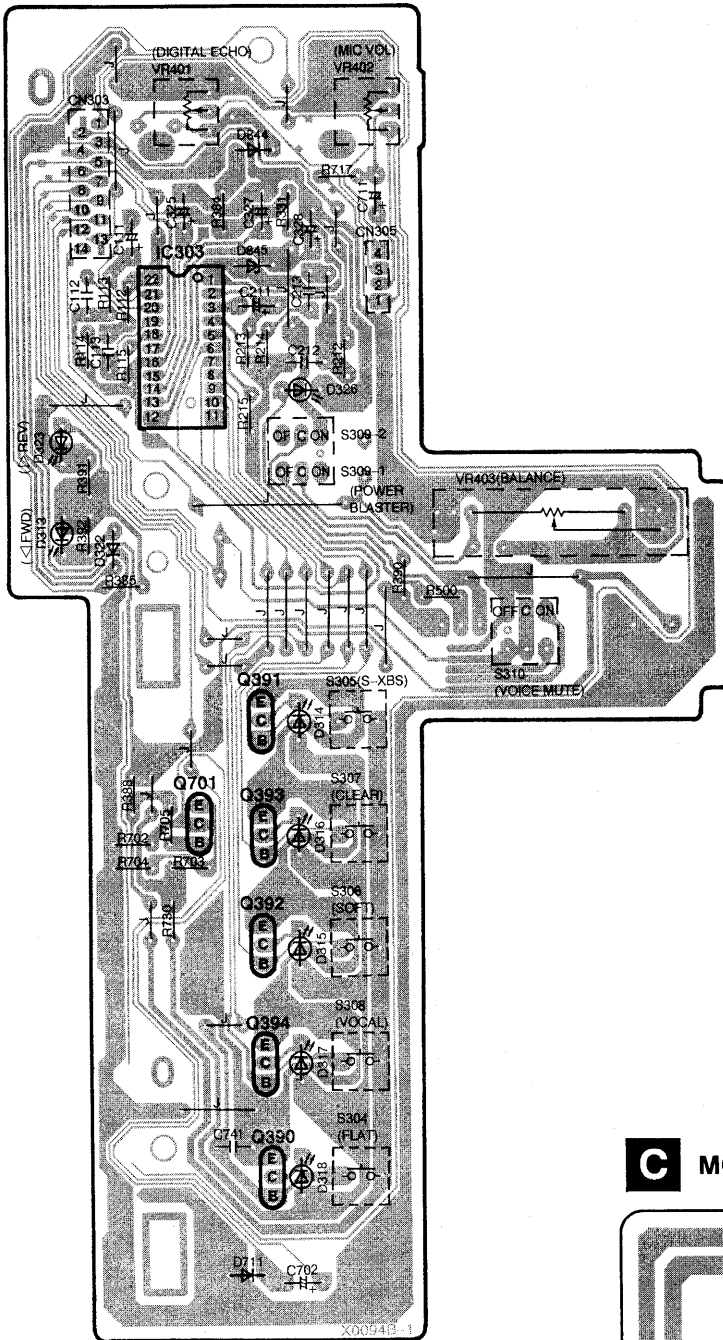
BU9255FS-E2 	AN7317 	BA3837 	AN7328K 	LA1805 	BA7755A 
AN7077Z-LDC 	AN7194K-LD 	AN7205 	2SK301QTA 	2SJ40CDTA 	2SB1566E 
 2SC2785FTA BA1A4MTA BA1A4PTA BA1L4MTA BN1A4PTA BN1A4ZTA BA1L3NTA BN1L3ZTA	RVTDTA143XST 		2SC1684RTA 2SC2001KTA 2SC829BTA 	2SA933STA 2SC1740SRTA 	1N5402BM21 
	MTZJ5R1BTA MTZJ5R6ATA MTZJ6R8BTA MTZJ7R5BTA MTZJ8R2BTA MTZJ39CTA		1SS254TA MA700TA 	SLR-325MC SLR325DCT31 	SLR342VCTB7 

Printed Circuit Board

TELESCOPIC
ANTENNA
A MAIN P.C.B.

 (REPX0134A...[GC])
 (REPX0134D...[GU])

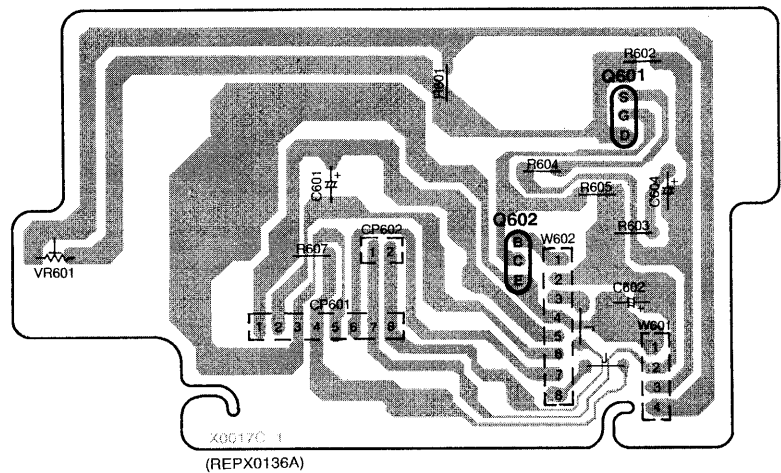
Note: This circuit board diagram may be modified at any time with the development of new technology.

B OPERATION P.C.B.



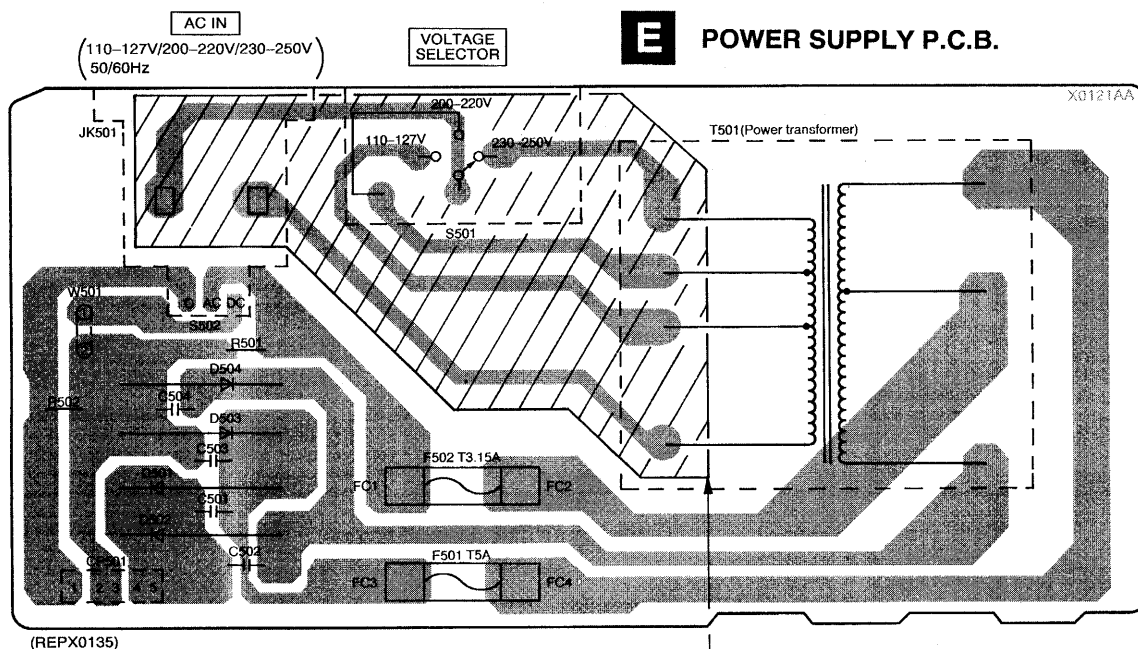
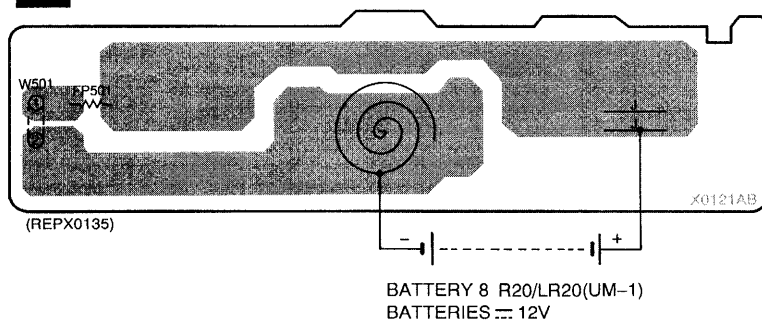
(REPX0134A***[GC])
(REPX0134D***[GU])

C MOTOR P.C.B.



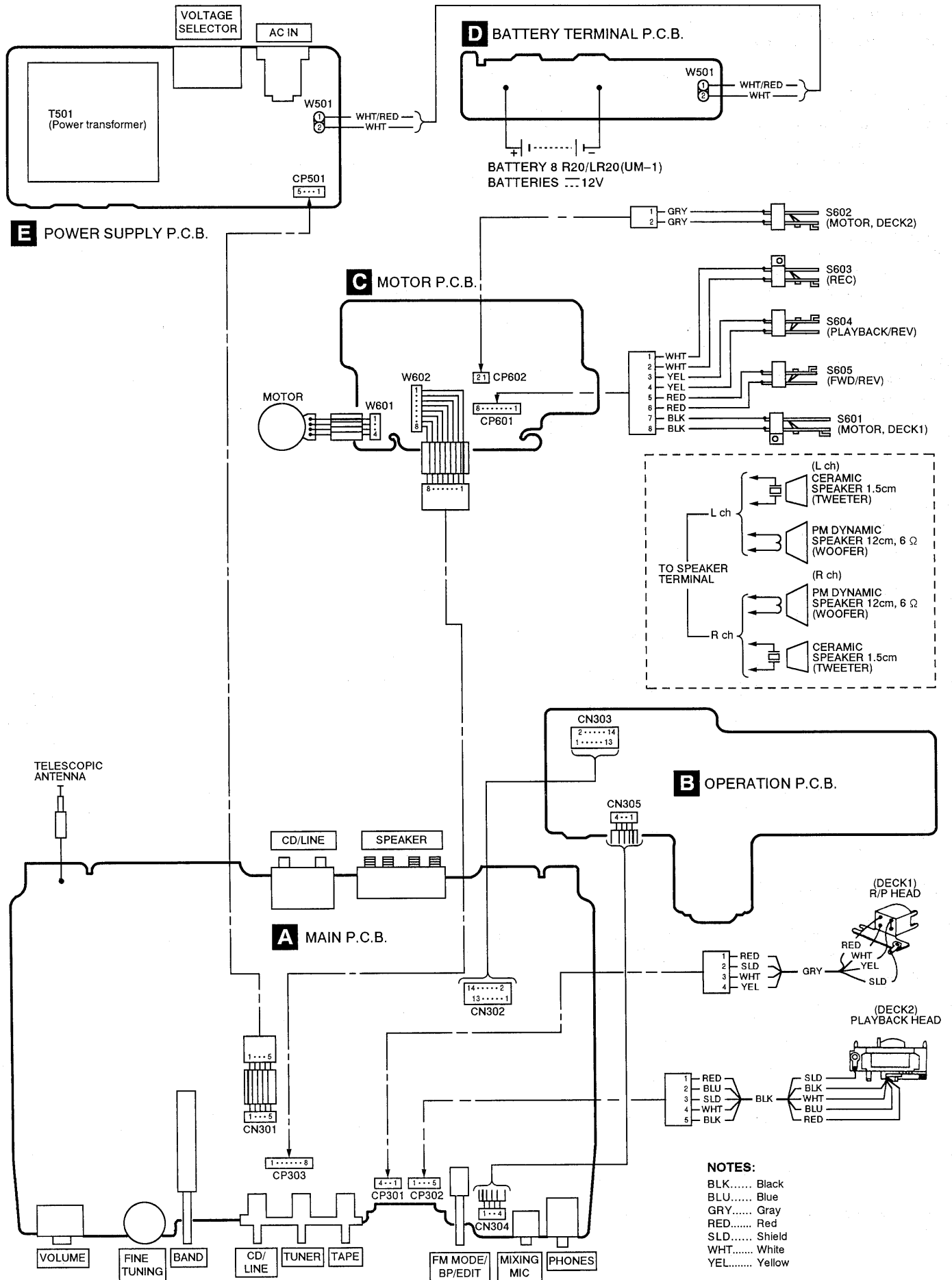
X0017C-1
(REPX0136A)

D BATTERY TERMINAL P.C.B.



CAUTION
RISK OF ELECTRIC SHOCK
AC voltage line. Please do not
touch this portion.

Wiring Connection Diagram



■ Measurements and Adjustments

• Tuner Section

• ALIGNMENT INSTRUCTION

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT	
• Set power source voltage to 12V DC • Set volume control to maximum • Set band switch to MW, SW1, SW2 or FM • Set selector switch to TUNER	• Set FM MODE/BP/EDIT switch to MONO/I/NOR • Set fine tuning to center • Set balance control switch to center • 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)	REMARK
CONNECTIONS	FREQUENCY				
Fashion a loop of several turns of wire and radiate a signal into the loop ant. of receiver.	455 kHz 30 % Mod. at 400 Hz	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

SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLTMETER or OSCILLOSCOPE)	ADJUSTMENT (Shown in Fig. 1)	REMARKS
CONNECTIONS	FREQUENCY				
"	(GU)...511kHz (GC)...514 ± 3 kHz	Tuning capacitor fully closed.	"	L8 (MW OSC Coil)	Adjust for maximum output.
"	(GU)...1650kHz (GC)...1639 ± 5kHz	Tuning capacitor fully opened.	"	CT1-3 (MW OSC 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 ferrite core.
"	1500 kHz	"	"	CT2 (MW ANT Trimmer)	Adjust for maximum output.
[*1] Fix antenna coil with wax after completing alignment.					

• SW1-RF ALIGNMENT

SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLTMETER or OSCILLOSCOPE)	ADJUSTMENT (Shown in Fig. 1)	REMARKS
CONNECTIONS	FREQUENCY				
"	2.25 MHz	Tuning capacitor fully closed.	"	L9 (SW1 OSC Coil)	Adjust for maximum output.
"	7.23 MHz	Tuning capacitor fully opened.	"	CT3 (SW1 OSC Trimmer)	Adjust for maximum output.
"	2.30 MHz	Tune to signal	"	[*1] L3-2 (SW1 ANT Coil)	Adjust for maximum output. Adjust L3-2 by moving coil bobbin along ferrite core.
"	7.00 MHz	"	"	CT1-4 (SW1 ANT Trimmer)	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.	"	L10 (SW2 OSC Coil)	Adjust for maximum output.
	22.80 MHz	Tuning capacitor fully opened.	"	CT4 (SW2 OSC Trimmer)	Adjust for maximum output.
	7.00 MHz	Tune to signal	"	L7 (SW2 ANT Coil)	Adjust for maximum output.

• FM-IF ALIGNMENT

Connect to test point TP3 through ceramic capacitor. Negative side to test point TP2 .	10.7 MHz (Sweep)	Point of non-interference.(on/ about 90 MHz)	Connect vert. amp. of scope to test point TP4 . Negative side to test point TP5 .	T1(FM 1st)	Waveform is shown in Fig. 3
"	"	"	"	T3 (FM 2nd)	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)	[*2] Adjust for maximum output.
	(GU). 109.2 MHz (GC). 108.3 MHz ± 70 kHz	Variable capacitor fully opened.	"	CT1-1 (FM OSC Trimmer)	"
	106MHz	Tune to signal	"	CT1-2 (FM ANT Trimmer)	"

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

• FM VCO ALIGNMENT

FM SIGNAL GENERATOR SOURCE CONNECTION	EQUIPMENT CONNECTORS ELECTRONIC COUNTER	ADJUSTMENT (Shown in Fig. 1)	SPECIFICATION	REMARKS
98 MHz, 60 dB (CW) connect to test point TP1 through FM dummy antenna. Negative side to TP2	TP6 ···· (+) TP5 ···· (-)	VR1	75.8 kHz ± 400 Hz	Adjust VR1, for 75.8 kHz ± 400 Hz reading on frequency counter.

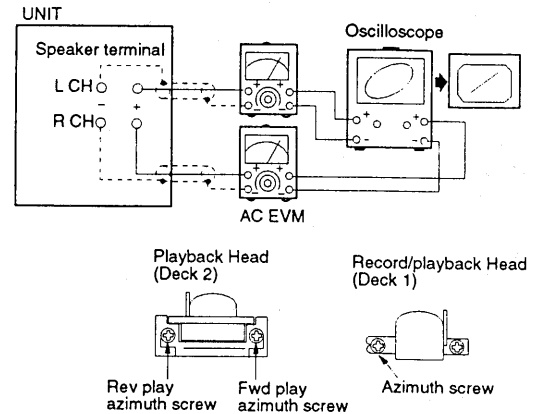
• Cassette Deck Section

• ALIGNMENT INSTRUCTION

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT	
Measuring Instruments • Digital frequency counter • Electronic voltmeter (AC EVM) • Oscilloscope	Measuring condition • Make sure the heads are clean. • Make sure the capstan and pressure roller are clean. • Tape-to-tape recording speed selector : NORMAL
Test tape • Tape speed adjustment (3kHz, - 10 dB) : QZZCWAT • Head azimuth adjustment (8kHz, - 20 dB) : QZZCFM	

• HEAD AZIMUTH ALIGNMENT (DECK 1, 2)

1. Playback the azimuth adjustment portion (8kHz, -20dB) of the test tape (QZZCFM). Vary the azimuth adjusting screw until the outputs of the L-ch and R-ch are maximized and lisajous waveform, as illustrated, approaches 0 degrees.
- Note :
If L-ch and R-ch are not maximized at the same point, adjust to the point where the levels of each channels are maximized and equal.
2. Perform the same adjustment in the play mode.
3. After the adjustment, apply screwlock to the azimuth adjusting screw.



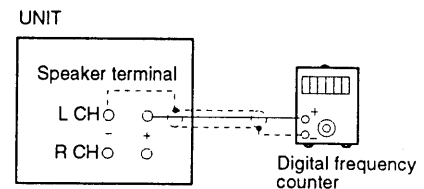
• TAPE SPEED ALIGNMENT (DECK 1, 2)

Normal speed (Standard Value : 3000 ± 30 Hz... Deck 1, 2)
 High speed (Standard Value : 5100 Hz ~)

1. Test equipment connection is shown in figure.
2. Set the unit to "TAPE" position.
3. Playback the middle part of the test tape (QZZCWAT) in deck 2.
4. Adjust VR601 for the output value shown below. (Fig. 5)
5. Playback the middle part of the test tape (QZZCWAT) in deck 1.
6. Repeat step 4.
5. Set the unit to "HIGH" speed position.
6. Place the cassette deck into the REC mode (DECK 1) and the PLAY mode (DECK 2).
7. Repeat step 4.

Note :

The normal speed adjustment must be done before the high speed adjustment.



Adjustment Target : 3000 ± 30 Hz ... Normal Speed (Deck 1, 2)
 Adjustment Target : 5100 Hz ~ ... High speed

● Alignment Point

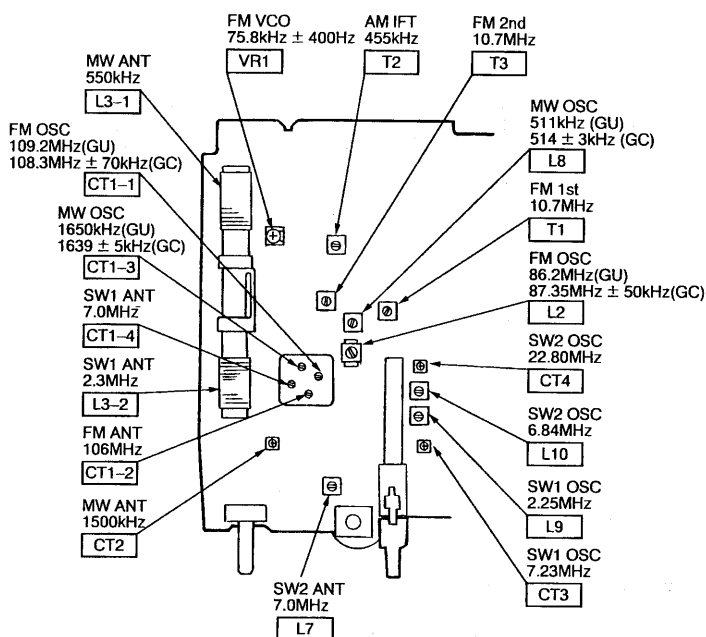


Fig. 1

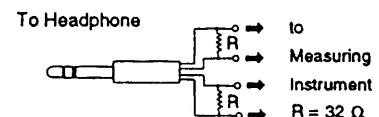


Fig. 2

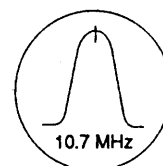


Fig. 3

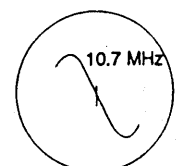


Fig. 4

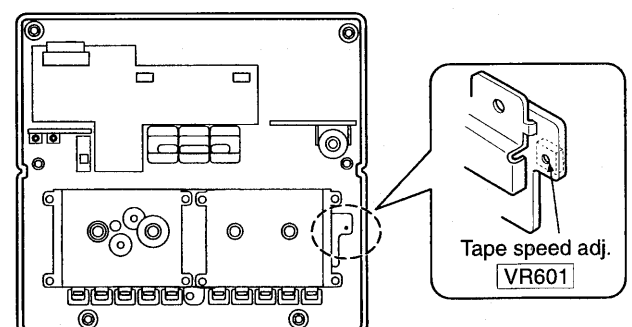


Fig. 5

■ Replacement Parts List (Electrical)

Notes: *Important safety notice:

Components identified by Δ 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 manufacture's specified parts shown in the parts list.

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

Parts without these indications can be used for all areas.

* [M] Indicates in Remarks columns parts that are supplied by MESA.

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

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUIT(S)		Q541	BA1L4MTA	TRANSISTOR	[M]
				Q601	2SK301QTA	TRANSISTOR	[M]
				Q602	BA1A4MTA	TRANSISTOR	[M]
IC1	AN7205	IC	[M]	Q701	2SA933STA	TRANSISTOR	[M]
IC2	LA1805	IC	[M]	Q702	BN1A4ZTA	TRANSISTOR	[M]
IC301	BA7755A	IC	[M]	Q704, 705	BA1L3NTA	TRANSISTOR	[M]
IC302	AN7317	IC	[M]				
IC303	AN7328K	IC	[M]			DIODE(S)	
IC305	AN7194K-LD	IC	[M]				
IC306	AN7077Z-LDC	IC	[M]	D1	1SS254TA	DIODE	[M]
IC401	BU9255FS-E2	IC	[M]	D301, 302	1SS254TA	DIODE	[M]
IC402	BA3837	IC	[M]	D305-308	1SS254TA	DIODE	[M]
		TRANSISTOR(S)		D309	MTZJ8R2BTA	DIODE	[M] Δ
				D310, 311	MA700TA	DIODE	[M]
Q1	2SC829BTA	TRANSISTOR	[M]	D312	1SS254TA	DIODE	[M]
Q101, 102	2SJ40CDTA	TRANSISTOR	[M]	D313	SLR342VCTB7	LED	[M]
Q103-105	2SC2785FTA	TRANSISTOR	[M]	D314-318	SLR-325MC	LED	[M]
Q106	2SJ40CDTA	TRANSISTOR	[M]	D319	1SS254TA	DIODE	[M]
Q118	BA1L4MTA	TRANSISTOR	[M]	D321, 322	1SS254TA	DIODE	[M]
Q199	2SC2785FTA	TRANSISTOR	[M]	D323	SLR342VCTB7	LED	[M]
Q201, 202	2SJ40CDTA	TRANSISTOR	[M]	D326	SLR325DCT31	LED	[M]
Q203-205	2SC2785FTA	TRANSISTOR	[M]	D328	1SS254TA	DIODE	[M]
Q206	2SJ40CDTA	TRANSISTOR	[M]	D330	1N5402BM21	DIODE	[M]
Q218	BA1L4MTA	TRANSISTOR	[M]	D332	1SS254TA	DIODE	[M]
Q299	2SC2785FTA	TRANSISTOR	[M]	D335	MTZJ39CTA	DIODE	[M] Δ
Q301	2SC1684RTA	TRANSISTOR	[M]	D336	MTZJ6R8BTA	DIODE	[M]
Q302	2SC1740SRTA	TRANSISTOR	[M]	D401	1SS254TA	DIODE	[M]
Q303	2SC1684RTA	TRANSISTOR	[M]	D501	1N5402BM21	DIODE	[M] Δ
Q305	BA1A4MTA	TRANSISTOR	[M]	D501A	1SS254TA	DIODE	[M]
Q306	2SB1566E	TRANSISTOR	[M] Δ	D502	1N5402BM21	DIODE	[M] Δ
Q307	2SC2785FTA	TRANSISTOR	[M] Δ	D502A	MTZJ5R1BTA	DIODE	[M]
Q308	BN1A4PTA	TRANSISTOR	[M]	D503, 504	1N5402BM21	DIODE	[M] Δ
Q309	BA1A4PTA	TRANSISTOR	[M]	D701-706	1SS254TA	DIODE	[M]
Q310	BA1A4MTA	TRANSISTOR	[M]	D707	MTZJ7R5BTA	DIODE	[M] Δ
Q316	BN1L3ZTA	TRANSISTOR	[M]	D708	MA700TA	DIODE	[M]
Q319	BA1A4MTA	TRANSISTOR	[M]	D709-711	1SS254TA	DIODE	[M]
Q320	2SC2001KTA	TRANSISTOR	[M]	D844	1SS254TA	DIODE	[M]
Q322	2SC2785FTA	TRANSISTOR	[M] Δ	D845	MTZJ5R6ATA	DIODE	[M]
Q390	RVTDTTC143XST	TRANSISTOR	[M]			VARIABLE RESISTOR(S)	
Q391	BA1A4MTA	TRANSISTOR	[M]				
Q392-394	RVTDTTC143XST	TRANSISTOR	[M]	VR1	EVNDXAA00B14	VR	[M]
Q401	2SC1684RTA	TRANSISTOR	[M]	VR301	EWCU0AF20G54	VR	[M]
Q402	2SC2001KTA	TRANSISTOR	[M]	VR401, 402	RRV09A01D54A	VR	[M]
Q500	RVTDTA143XST	TRANSISTOR	[M]	VR403	EWAJUAW05G15	VR	[M]
Q502	BA1L4MTA	TRANSISTOR	[M]	VR601	EVNDXAA00B14	VR	[M]
Q531	BA1L4MTA	TRANSISTOR	[M]				

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
		VARIABLE CAPACITOR(S)		S501	RSR3A01ZA-H	SW	[M] △
				S502	RJJ1A5YA-H	SW (JK501)	[M] △
CT2-5	ECRLA010A53R	TRIMMER	[M]	S601	RFA101ZA	SW	[M]
CT6	ECRLA010A53R	TRIMMER	[M] (GC)	S602	RFA107ZA	SW	[M]
CT8	RCVMFTPC7B	VC, FINE TUNING	[M]	S603	RFA113ZA	SW	[M]
VC1	RCV4RCTOV-R	VC	[M]	S604	RFA1106A	SW	[M]
				S605	RFA1106A	SW	[M]
		COIL (S)				JACK(S)	
L2	RL04P002-E	COIL	[M]	JK301	RJJ1D25ZA-C	MIXING MIC	[M]
L3	RLV5C007-0	COIL	[M]	JK302	RJF1099YA	CD/LINE IN	[M]
L6	RLQY30S4W	COIL	[M]	JK303	RJF1098ZA-H	TERMINAL	[M]
L7	RLA3B44-M	COIL	[M]	JK304	RJJ39T01	HEADPHONES	[M]
L8	RL02B108-M	COIL	[M]	JK501	RJJ1A5YA-H	AC INLET (S502)	[M] △
L9	RL03B91-M	COIL	[M]				
L10	RL03B95-M	COIL	[M]			FUSE PROTECTOR(S)	
L301	RL09B17-T	COIL	[M]				
				FP501	RSFMB50KT-L	FUSE PROTECTOR	[M] △
		TRANSFORMER (S)				FUSE HOLDER(S)	
T1	RLI4B153-M	TRANSFORMER	[M]	FC1-4	EYF52BC	FUSE HOLDER	[M]
T2	RLI2B153-M	TRANSFORMER	[M]			FUSE RESISTOR(S)	
T3	RLI4B153-M	TRANSFORMER	[M]				
T501	RTP1M1E003-X	POWER TRANSFORMER	[M] △	R352	RSFMB40KT-L	FUSE RESISTOR	[M] △
						CONNECTOR(S)	
		COMPONENT COMBINATION (S)					
				CN301	RJS1A5505	CONNECTOR(5P)	[M]
Z1	RCRBMT002-H	BAND PASS FILTER	[M]	CN302	RJS1A6714-Q	CONNECTOR(14P)	[M]
				CN303	RJS1A6214-1	CONNECTOR(14P)	[M]
		FILTER(S)		CN304	RMRO313	CONNECTOR(4P)	[M]
				CN305	RJS1A5204	CONNECTOR(4P)	[M]
CF1	RVF107WDZT	CERAMIC FILTER	[M]	CP301	RJP4G18ZA	CONNECTOR(4P)	[M]
CF2	RVFSFZ455JL	CERAMIC FILTER	[M]	CP302	RJP5G18ZA	CONNECTOR(5P)	[M]
				CP303	RJP8G4YA	CONNECTOR(8P)	[M]
		FUSE (S)		CP501	RJP5G4YA	CONNECTOR(5P)	[M]
				CP601	RJP8G9YA	CONNECTOR(8P)	[M]
F501	XBA2C50TB0	FUSE	[M] △	CP602	RJP2G4YA	CONNECTOR(2P)	[M]
F502	XBA2C31TB0	FUSE	[M] △				
		SWITCH(ES)					
S1	RST4H18ZA-H	SW	[M]				
S301	RSP3001-A	SW	[M]				
S303	RST2B54ZA-H	SW	[M]				
S304	EVQ21405R	SW	[M]				
S305	EVQ21405R	SW	[M]				
S306	EVQ21405R	SW	[M]				
S307	EVQ21405R	SW	[M]				
S308	EVQ21405R	SW	[M]				
S309	ESB64513	SW	[M]				
S310	ESB6483	SW	[M]				

Resistors and Capacitors

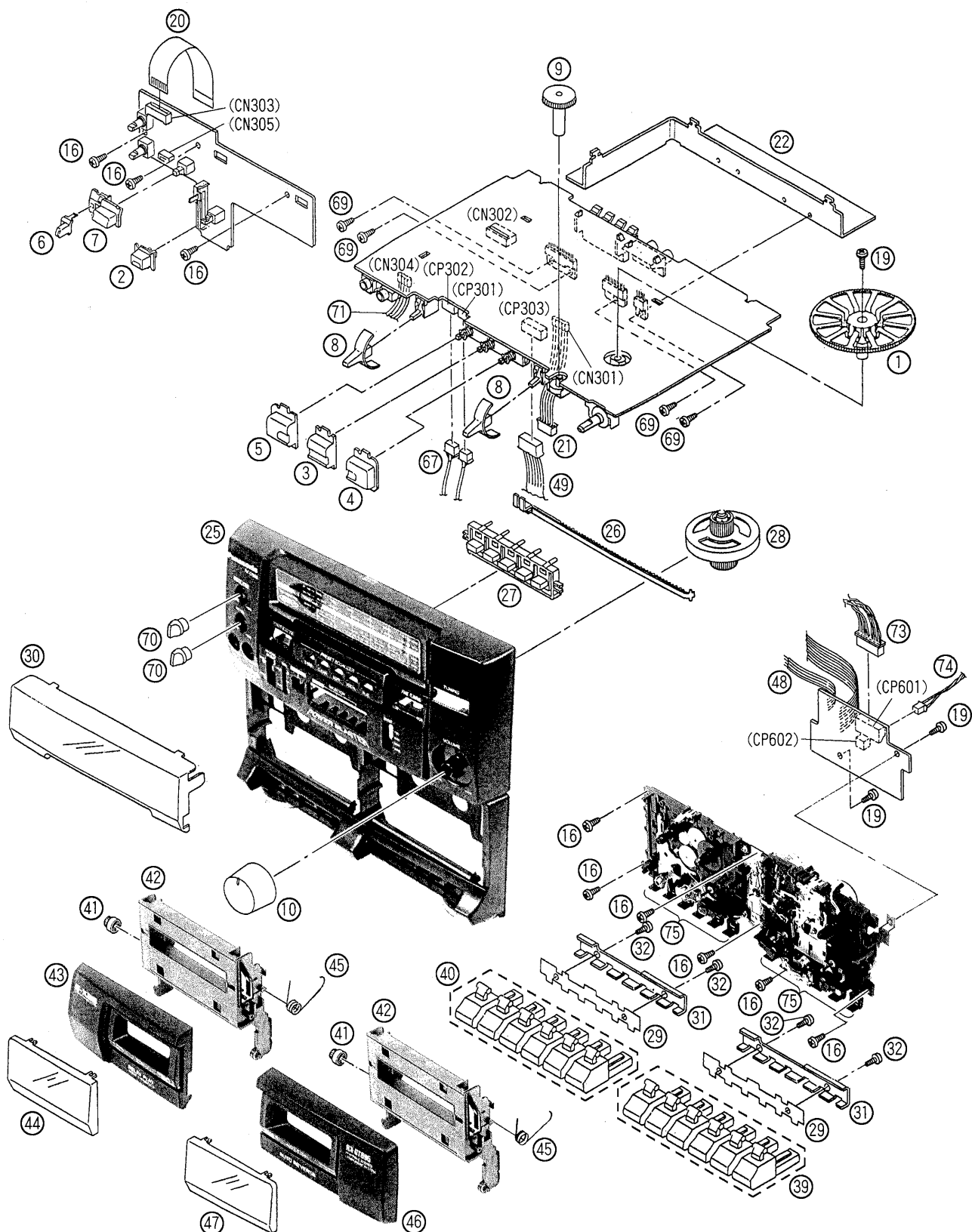
Notes : * Capacity values are in microfarads (uF) unless specified otherwise, P = Pico-farads (pF) F = Farads (F)
 * Resistance values are in ohms, unless specified otherwise, 1 K = 1,000 (OHM), 1 M = 1,000 k (OHM)

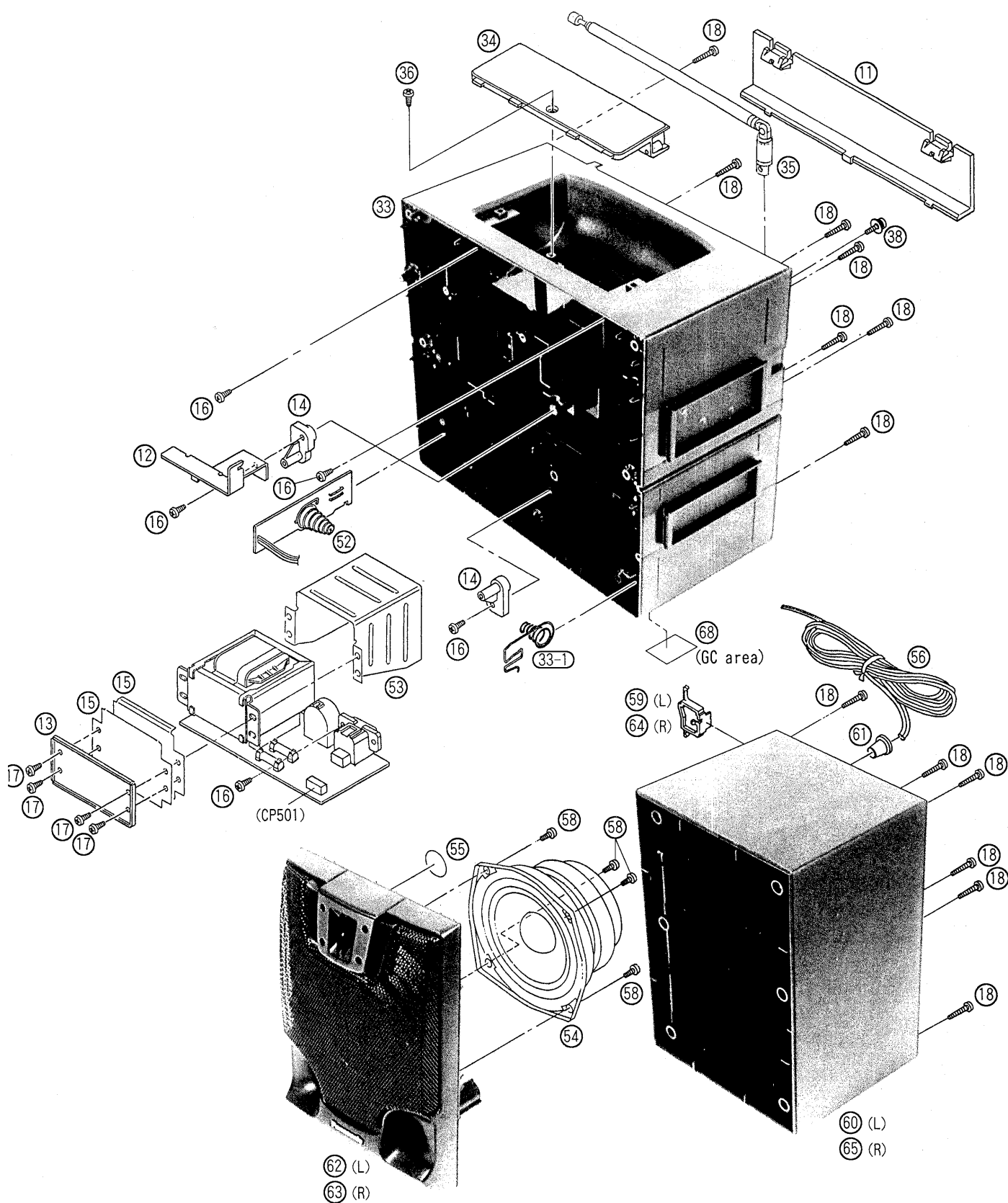
Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks
		RESISTORS	R203	ERDS2TJ472	1/4W 4.7K [M]	R340	ERDS2TJ221	1/4W 220 [M]
			R204	ERDS2TJ102	1/4W 1K [M]	R341, 342	ERDS2TJ1R2	1/4W 1.2 [M]
			R205	ERDS2TJ390	1/4W 39 [M]	R343	ERDS2TJ122	1/4W 1.2K [M]
R2	ERDS2TJ334	1/4W 330K [M]	R207	ERDS2TJ183	1/4W 18K [M]	R344	ERDS2TJ103	1/4W 10K [M]
R3	ERDS2TJ471	1/4W 470 [M]	R208	ERDS2TJ123	1/4W 12K [M]	R347	ERDS1FVJ4R7	1/2W 4.7 [M]△
R4	ERDS2TJ330	1/4W 33 [M]	R209	ERDS2TJ273	1/4W 27K [M]	R348	ERDS2TJ222	1/4W 2.2K [M]
R5	ERDS2TJ101	1/4W 100 [M]	R211	ERDS2TJ104	1/4W 100K [M]	R360	ERDS2TJ104	1/4W 100K [M]
R6	ERDS2TJ8R2	1/4W 8.2 [M]	R212	ERDS2TJ471	1/4W 470 [M]	R361	ERDS2TJ1R2	1/4W 1.2 [M]
R7	ERDS2TJ680	1/4W 68 [M]	R213	ERDS2TJ681	1/4W 680 [M]	R362	ERDS2TJ153	1/4W 15K [M]
R8	ERDS2TJ470	1/4W 47 [M]	R214	ERDS2TJ182	1/4W 1.8K [M]	R364	ERDS2TJ103	1/4W 10K [M]
R9	ERDS2TJ183	1/4W 18K [M]	R215	ERDS2TJ122	1/4W 1.2K [M]	R365	ERDS2TJ823	1/4W 82K [M]
R10	ERDS2TJ332	1/4W 3.3K [M]	R218	ERDS2TJ222	1/4W 2.2K [M]	R366	ERDS2TJ332	1/4W 3.3K [M]
R11	ERDS2TJ221	1/4W 220 [M]	R219	ERDS2TJ473	1/4W 47K [M]	R367	ERDS2TJ823	1/4W 82K [M]
R12	ERDS2TJ153	1/4W 15K [M]	R220, 221	ERDS2TJ562	1/4W 5.6K [M]	R372	ERDS2TJ472	1/4W 4.7K [M]
R14	ERDS2TJ181	1/4W 180 [M]	R222	ERDS2TJ183	1/4W 18K [M]	R373	ERDS2TJ152	1/4W 1.5K [M]
R15	ERDS2TJ104	1/4W 100K [M]	R223	ERDS2TJ123	1/4W 12K [M]	R374	ERDS2TJ473	1/4W 47K [M]
R16	ERDS2TJ473	1/4W 47K [M]	R229	ERDS2TJ104	1/4W 100K [M]	R380	ERDS2TJ472	1/4W 4.7K [M]
R20, 21	ERDS2TJ183	1/4W 18K [M]	R230	ERDS2TJ102	1/4W 1K [M]	R381	ERDS2TJ101	1/4W 100 [M]
R22, 23	ERDS2TJ393	1/4W 39K [M]	R231	ERDS2TJ2R2	1/4W 2.2 [M]	R382	ERDS2TJ224	1/4W 220K [M]
R101	ERDS2TJ123	1/4W 12K [M]	R232	ERDS2TJ103	1/4W 10K [M]	R384	ERDS2TJ103	1/4W 10K [M]
R102	ERDS2TJ562	1/4W 5.6K [M]	R233	ERDS2TJ2R2	1/4W 2.2 [M]	R385	ERDS2TJ271	1/4W 270 [M]
R103	ERDS2TJ472	1/4W 4.7K [M]	R234	ERDS2TJ822	1/4W 8.2K [M]	R388	ERDS2TJ103	1/4W 10K [M]
R104	ERDS2TJ102	1/4W 1K [M]	R235	ERDS2TJ181	1/4W 180 [M]	R390	ERDS2TJ103	1/4W 10K [M]
R105	ERDS2TJ390	1/4W 39 [M]	R240	ERDS2TJ183	1/4W 18K [M]	R391	ERDS2TJ331	1/4W 330 [M]
R107	ERDS2TJ183	1/4W 18K [M]	R298	ERDS2TJ474	1/4W 470K [M]	R392	ERDS2TJ151	1/4W 150 [M]
R108	ERDS2TJ123	1/4W 12K [M]	R299	ERDS2TJ102	1/4W 1K [M]	R401	ERDS2TJ333	1/4W 33K [M]
R109	ERDS2TJ273	1/4W 27K [M]	R301	ERDS2TJ222	1/4W 2.2K [M]	R402	ERDS2TJ474	1/4W 470K [M]
R111	ERDS2TJ104	1/4W 100K [M]	R302	ERDS2TJ105	1/4W 1M [M]	R404	ERDS2TJ472	1/4W 4.7K [M]
R112	ERDS2TJ471	1/4W 470 [M]	R303	ERDS2TJ222	1/4W 2.2K [M]	R405	ERDS2TJ103	1/4W 10K [M]
R113	ERDS2TJ681	1/4W 680 [M]	R304	ERDS2TJ470	1/4W 47 [M]	R410	ERDS2TJ472	1/4W 4.7K [M]
R114	ERDS2TJ182	1/4W 1.8K [M]	R305	ERDS2TJ103	1/4W 10K [M]	R412	ERDS2TJ153	1/4W 15K [M]
R115	ERDS2TJ122	1/4W 1.2K [M]	R306, 307	ERDS2TJ334	1/4W 330K [M]	R413	ERDS2TJ103	1/4W 10K [M]
R118	ERDS2TJ222	1/4W 2.2K [M]	R308	ERDS2TJ221	1/4W 220 [M]	R414	ERDS2TJ393	1/4W 39K [M]
R119	ERDS2TJ473	1/4W 47K [M]	R309-311	ERDS2TJ472	1/4W 4.7K [M]	R415	ERDS2TJ223	1/4W 22K [M]
R120, 121	ERDS2TJ562	1/4W 5.6K [M]	R312	ERDS2TJ221	1/4W 220 [M]	R417	ERDS2TJ822	1/4W 8.2K [M]
R122	ERDS2TJ183	1/4W 18K [M]	R313	ERDS2TJ273	1/4W 27K [M]	R419, 420	ERDS2TJ103	1/4W 10K [M]
R123	ERDS2TJ123	1/4W 12K [M]	R314	ERDS2TJ4R7	1/4W 4.7 [M]	R421	ERDS2TJ223	1/4W 22K [M]
R129	ERDS2TJ104	1/4W 100K [M]	R315	ERDS2TJ101	1/4W 100 [M]	R422	ERDS2TJ103	1/4W 10K [M]
R130	ERDS2TJ102	1/4W 1K [M]	R319	ERDS2TJ222	1/4W 2.2K [M]	R423	ERDS2TJ102	1/4W 1K [M]
R131	ERDS2TJ2R2	1/4W 2.2 [M]	R320	ERDS2TJ475	1/4W 4.7M [M]	R500	ERDS2TJ221	1/4W 220 [M]
R132	ERDS2TJ103	1/4W 10K [M]	R321	ERDS2TJ101	1/4W 100 [M]	R501	ERDS2TJ272	1/4W 2.7K [M]
R133	ERDS2TJ2R2	1/4W 2.2 [M]	R322	ERDS2TJ103	1/4W 10K [M]	R502	ERDS2TJ683	1/4W 68K [M]
R134	ERDS2TJ822	1/4W 8.2K [M]	R323	ERDS2TJ102	1/4W 1K [M]	R506	ERDS2TJ471	1/4W 470 [M]
R135	ERDS2TJ181	1/4W 180 [M]	R324, 325	ERDS2TJ103	1/4W 10K [M]	R508	ERDS2TJ822	1/4W 8.2K [M]
R140	ERDS2TJ183	1/4W 18K [M]	R328	ERDS2TJ154	1/4W 150K [M]	R509	ERDS2TJ104	1/4W 100K [M]
R198	ERDS2TJ474	1/4W 470K [M]	R329	ERDS2TJ472	1/4W 4.7K [M]	R510	ERDS2TJ473	1/4W 47K [M]
R199	ERDS2TJ102	1/4W 1K [M]	R331	ERDS2TJ470	1/4W 47 [M]	R511	ERDS2TJ152	1/4W 1.5K [M]
R201	ERDS2TJ123	1/4W 12K [M]	R338	ERDS2TJ103	1/4W 10K [M]	R512	ERDS2TJ681	1/4W 680 [M]
R202	ERDS2TJ562	1/4W 5.6K [M]	R339	ERDS2TJ331	1/4W 330 [M]	R531	ERDS2TJ103	1/4W 10K [M]

Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks
R541	ERDS2TJ103	1/4W 10K [M]	C36	ECQP2A361JZT	100V 360P [M]	C298	ECEA1HKA010B	50V 1U [M]
R601	ERDS2TJ123	1/4W 12K [M]	C37	ECQP2A152JZT	100V 1500P [M]	C299	ECBT1H331KB5	50V 330P [M]
R602	ERDS2TJ273	1/4W 27K [M]	C38	ECQP2A472JZT	100V 4700P [M]	C301	ECFR1C223MR	16V 0.022U [M]
R603	ERDS2TJ102	1/4W 1K [M]	C39	ECBT1H3R3KC5	50V 3. 3P [M]	C302	ECFR1C683MR	16V 0.068U [M]
R604	ERDS2TJ273	1/4W 27K [M]	C41	ECBT1H270J5	50V 27P [M]	C303	ECBT1C103MS5	16V 0.01U [M]
R605	ERDS2TJ105	1/4W 1M [M]	C42	ECBT1H200JC5	50V 20P [M]	C304	ECBT1H102KB5	50V 1000P [M]
R607	ERDS2TJ472	1/4W 4. 7K [M]	C50, 51	ECFR1C153MR	16V 0.015U [M]	C305	ECEA1HKA010B	50V 1U [M]
R702	ERDS2TJ823	1/4W 82K [M]	C60	ECBT1H6R8KC5	50V 6. 8P [M] (GU)	C306	ECEA1AKA101B	10V 100U [M]
R703	ERDS2TJ102	1/4W 1K [M]	C61	ECBT1H5R6KC5	50V 5. 6P [M]	C307	ECEA1AKA470B	10V 47U [M]
R704	ERDS2TJ562	1/4W 5. 6K [M]	C62, 63	ECEA1HKA010B	50V 1U [M]	C308	ECBT1C103MS5	16V 0.01U [M]
R705	ERDS2TJ472	1/4W 4. 7K [M]	C64	ECEA1AKA470B	10V 47U [M]	C309	ECQP2A151JZT	100V 150P [M]
R706	ERDS2TJ182	1/4W 1. 8K [M]	C65	ECBT1C103MS5	16V 0.01U [M]	C310	ECQP2A182JZT	100V 1800P [M]
R707	ERDS2TJ184	1/4W 180K [M]	C101	ECBT1C122MR5	16V 1200P [M]	C311, 312	ECBT1C103MS5	16V 0.01U [M]
R708	ERDS2TJ221	1/4W 220 [M]	C102	ECBT1H102KB5	50V 1000P [M]	C313	ECEA1AKA101B	10V 100U [M]
R709	ERDS2TJ102	1/4W 1K [M]	C103	ECBT1H101KB5	50V 100P [M]	C320	ECEA1CKA100B	16V 10U [M]
R711	ERDS2TJ102	1/4W 1K [M]	C104	ECFR1C333MR	16V 0.033U [M]	C321	ECFR1C473MR	16V 0.047U [M]
R714	ERDS2TJ472	1/4W 4. 7K [M]	C105	ECEA0JKA101B	6. 3V 100U [M]	C322	ECEA1AKA220B	10V 22U [M]
R717	ERDS2TJ681	1/4W 680 [M]	C106	ECEA1CKA100B	16V 10U [M]	C323	ECEA1AKA101B	10V 100U [M]
R718	ERDS2TJ562	1/4W 5. 6K [M]	C107	ECBT1H101KB5	50V 100P [M]	C324	ECEA1CKA220B	16V 22U [M]
R720	ERDS2TJ102	1/4W 1K [M]	C108	ECBT1H102KB5	50V 1000P [M]	C325	ECEA1AKA470B	10V 47U [M]
R721	ERDS2TJ473	1/4W 47K [M]	C110	ECEA1HKA010B	50V 1U [M]	C327	ECEA1CKA100B	16V 10U [M]
R725	ERDS2TJ471	1/4W 470 [M]	C111	ECEA1HKAR33B	50V 0.033U [M]	C328	ECEA1AKA101B	10V 100U [M]
R728	ERDS2TJ562	1/4W 5. 6K [M]	C112	ECBT0J153MS5	6. 3V 0.015U [M]	C330	ECEA1HKA3R3B	50V 3. 3U [M]
R730	ERDS2TJ391	1/4W 390 [M]	C113	ECFR1C822JR	16V 8200P [M]	C331	ECEA1CKA101B	16V 100U [M]
R740, 741	ERDS2TJ153	1/4W 15K [M]	C114	ECEA1HKA010B	50V 1U [M]	C340	ECA1VM332E	35V 3300U [M]△
R742	ERDS2TJ222	1/4W 2. 2K [M]	C117	ECEA1HKA010B	50V 1U [M]	C341	ECA1EM332E	25V 3300U [M]△
R850	ERDS2TJ152	1/4W 1. 5K [M]	C119	ECFR1C473MR	16V 0.047U [M]	C343	ECQV1H24JZ3	50V 0.22U [M]
			C124	ECEA1HKAR22B	50V 0.22U [M]	C347	ECEA1EKA330B	25V 33U [M]
		CAPACITORS	C125	ECBT1H471KB5	50V 470P [M]	C350	ECFR1C104MR	16V 0.1U [M]
			C126, 127	ECQV1H24JZ3	50V 0.22U [M]	C352	ECEA1EU101B	25V 100U [M]
C1	ECBT1H120JC5	50V 12P [M]	C128, 129	ECEA1CKA100B	16V 10U [M]	C355	ECEA1EKA330B	25V 33U [M]
C3	ECBT1H220JC5	50V 22P [M]	C198	ECEA1HKA010B	50V 1U [M]	C356	ECFR1C104MR	16V 0.1U [M]
C5, 6	ECBT1H102KB5	50V 1000P [M]	C199	ECBT1H331KB5	50V 330P [M]	C358	ECEA0JU331B	6. 3V 330U [M]
C7	ECBT1H4R7KC5	50V 4. 7P [M]	C201	ECBT1C122MR5	16V 1200P [M]	C360	ECEA1CKA330B	16V 33U [M]
C8	ECBT1H470J5	50V 47P [M]	C202	ECBT1H102KB5	50V 1000P [M]	C362	ECQV1H105JZ3	50V 1U [M]
C9	ECBT1H102KB5	50V 1000P [M]	C203	ECBT1H101KB5	50V 100P [M]	C382	ECBT1C103MS5	16V 0.01U [M]
C10	ECBT1H120JC5	50V 12P [M]	C204	ECFR1C333MR	16V 0.033U [M]	C401	ECEA1AKA101B	10V 100U [M]
C11	ECBT1H8R2KC5	50V 8. 2P [M] (GC)	C205	ECEA0JKA101B	6. 3V 100U [M]	C402	ECEA1HKA010B	50V 1U [M]
C11	ECBT1H100JC5	50V 10P [M] (GU)	C206	ECEA1CKA100B	16V 10U [M]	C406	ECBT1C103MS5	16V 0.01U [M]
C12	ECBT1H102KB5	50V 1000P [M]	C207	ECBT1H101KB5	50V 100P [M]	C407	ECFR1C153MR	16V 0.015U [M]
C13	ECBT0J223MS5	6. 3V 0.022U [M]	C208	ECBT1H102KB5	50V 1000P [M]	C408	ECEA1HKA010B	50V 1U [M]
C14	ECQP2A152JZT	100V 1500P [M]	C210	ECEA1HKA010B	50V 1U [M]	C409	ECQV1H24JZ3	50V 0.22U [M]
C15, 16	ECEA1HKA3R3B	50V 3. 3U [M]	C211	ECEA1HKAR33B	50V 0.033U [M]	C410	ECEA1CKA220B	16V 22U [M]
C20	ECEA0JKA101B	6. 3V 100U [M]	C212	ECBT0J153MS5	6. 3V 0.015U [M]	C411	ECFR1C333MR	16V 0.033U [M]
C21	ECBT1H102KB5	50V 1000P [M]	C213	ECFR1C822JR	16V 8200P [M]	C413	ECEA1HKA010B	50V 1U [M]
C23	ECBT1H471KB5	50V 470P [M]	C214	ECEA1HKA010B	50V 1U [M]	C414	ECEA1CKA100B	16V 10U [M]
C24	ECEA1EKA220B	25V 22U [M]	C217	ECEA1HKA010B	50V 1U [M]	C415	ECBT1C332MR5	16V 3300P [M]
C25	ECBT1C103MS5	16V 0.01U [M]	C219	ECFR1C473MR	16V 0.047U [M]	C416	ECFR1C333MR	16V 0.033U [M]
C28	ECEA1HKA010B	50V 1U [M]	C224	ECEA1HKAR22B	50V 0.22U [M]	C417	ECEA1AKA220B	10V 22U [M]
C29	ECBT1C222MR5	16V 2200P [M]	C225	ECBT1H471KB5	50V 470P [M]	C418	ECFR1C333MR	16V 0.033U [M]
C32	ECBT1H2R7KC5	50V 2. 7P [M]	C226, 227	ECQV1H24JZ3	50V 0.22U [M]	C419	ECBT1H101KB5	50V 100P [M]
C34	ECEA1HKAR47B	50V 0.47U [M]	C228, 229	ECEA1CKA100B	16V 10U [M]	C420	ECEA1HKAR47B	50V 0.47U [M]

[illegible]

■ Cabinet Parts Location





■ Replacement Parts List (Cabinet)

Notes: *Important safety notice:

Components identified by Δ 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 manufacture's specified parts shown in the parts list.

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

Parts without these indications can be used for all areas.

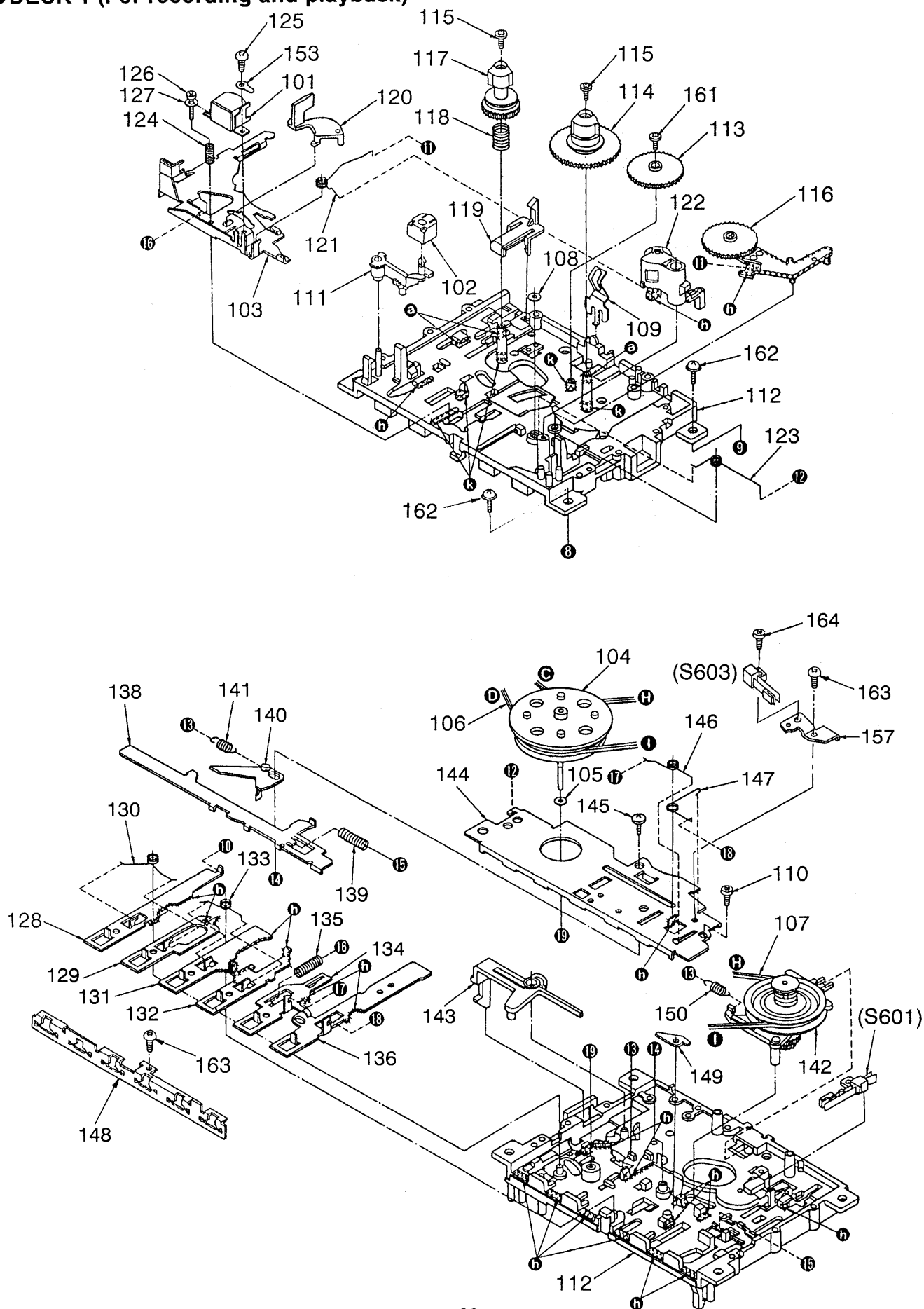
* [M] Indicates in Remarks columns parts that are supplied by MESA.

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

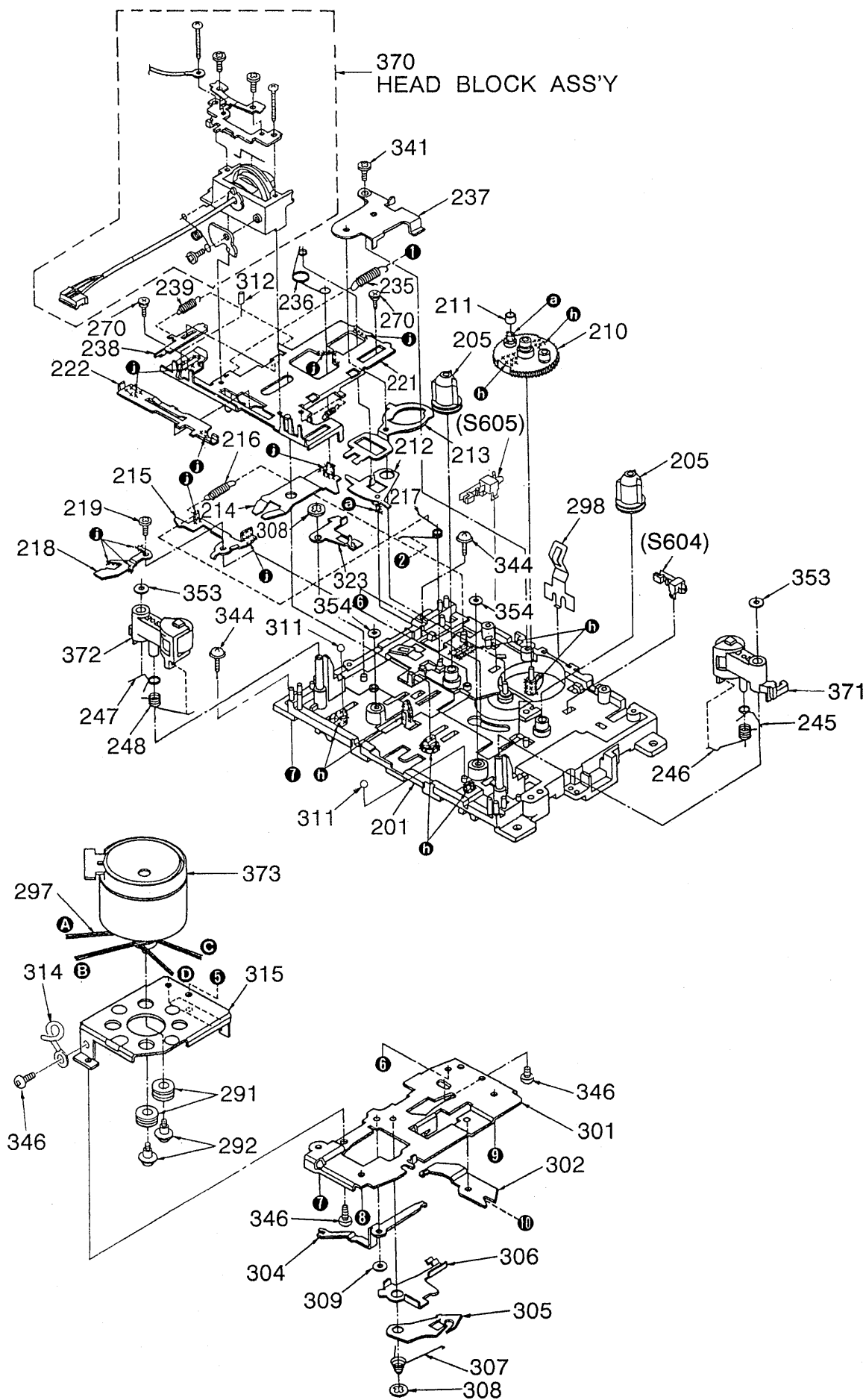
Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS		45	RMEX0002	SPRING, CASSETTE OPEN	[M]
				46	RKFX0058A-K	CASSETTE LID (R)	[M]
				47	RKWX0098-Q	CASSETTE WINDOW (R)	[M]
1	RDGX0010	GEAR, VARICON	[M]	48	RWJ0104065KX	MOTOR WIRE (4P) (W601)	[M]
2	RGUX0222-K	BUTTON, SURROUND	[M]	49	REXX0165	MECHA WIRE (8P) (W602)	[M]
3	RGUX0223-K	BUTTON, TUNER	[M]	52	RJC511ZBS	BATTERY TERMINAL	[M]
4	RGUX0224-K	BUTTON, CD/AUX	[M]	53	RSC0163A	SHIELD PLATE	[M]
5	RGUX0225-K	BUTTON, TAPE	[M]	54	EASJ12P22A3	WOOFER	[M]
6	RGUX0227-Q	CAP	[M]	55	EFBS10D49A3	TWEETER	[M]
7	RGUX0228-K	BUTTON, MEGA POWER	[M]	56	REXX0089	SPEAKER CORD	[M]
8	RGWX0022-K	KNOB, SELECTOR	[M]	58	XTW3+10Q	SCREW	[M]
9	RGWX0031-K	KNOB, FINE TUNING	[M]	59	RMRO407	LOCK LEVER (L)	[M]
10	RGWX0033-K	KNOB, VOLUME	[M]	60	RKP0016C-K	SP. REAR CABINET (L)	[M]
11	RKK347ZB-0	BATTERY COVER	[M]	61	RMGX0012-K	CORD BUSHING	[M]
12	RMAX0030	ANGLE	[M]	62	RFKGCT890GUA	SP. FRONT CABINET (L) ASS' Y	[M]
13	RMAX0031	PLATE, TRANSFORMER	[M]	63	RFKGCT890GUB	SP. FRONT CABINET (R) ASS' Y	[M]
14	RMQX0020-K	MECHA CHASSIS A	[M]	64	RMRO408	LOCK LEVER (R)	[M]
15	RSC0094A	SHIELD PLATE	[M]	65	RKP0018C-K	SP. REAR CABINET (R)	[M]
16	XTV3+12G	SCREW	[M]	67	REXX0074	HEAD WIRE, DECK 1 (5P)	[M]
17	XTV3+16G	SCREW	[M]	68	RGQX0001	HOLE COVER	[M] (GC)
18	XTV3+20G-M	SCREW	[M]	69	XTW3+10F	SCREW	[M]
19	XYN26+C6	SCREW	[M]	70	RGWX0035-K	KNOB, MIC VOL/ECHO	[M]
20	REEX0044	PANEL TO MAIN WIRE (14P)	[M]	71	RWJ0204070RR	FLAT CABLE (4P)	[M] (GC)
21	REXX0153	POWER WIRE (5P)	[M]	71	RWJ0204040RR	FLAT CABLE (4P)	[M] (GU)
22	RMXX0029	HEAT SINK	[M]	73	REXX0077	MECHA WIRE (8P)	[M]
25	RFKKCT895GCK	FRONT CABINET ASS' Y	[M] (GC)	74	RFE542ZA	WIRE ASS' Y (2P)	[M]
25	RFKKCT895GUK	FRONT CABINET ASS' Y	[M] (GU)	75	RMQX0001	MECHA SPACER	[M]
26	RGJX0016-W	POINTER	[M]				
27	RGUX0226-Q	BUTTON, PRESET EQ	[M]				
28	RGWX0032-K	KNOB, TUNING	[M]				
29	RHRX0008	MECHA SEAT	[M]				
30	RKWX0099-Q	DIAL WINDOW	[M]				
31	RMAX0006	ANGLE BAR	[M]				
32	XTV3+8G-M	SCREW	[M]				
33	RFKHCT895GCK	REAR CABINET ASS' Y	[M] (GC)				
33	RFKHCT895GUK	REAR CABINET ASS' Y	[M] (GU)				
33-1	RJC91008	BATTERY SPRING	[M]				
34	RFKNCT890GUK	HANDLE ASS' Y	[M]				
35	XEARR175EA-Y	ROD ANTENNA	[M]				
36	XTN3+10CFZ	SCREW	[M]				
38	XYN3+F12FY	SCREW	[M]				
39	RGZX0029A-K	BUTTON	[M]				
40	RGZX0029B-K	BUTTON	[M]				
41	RDG0183-L	DAMPER GEAR	[M]				
42	RKFX0044-K	CASSETTE HOLDER	[M]				
43	RKFX0057-K	CASSETTE LID (L)	[M]				
44	RKWX0097-Q	CASSETTE WINDOW (L)	[M]				

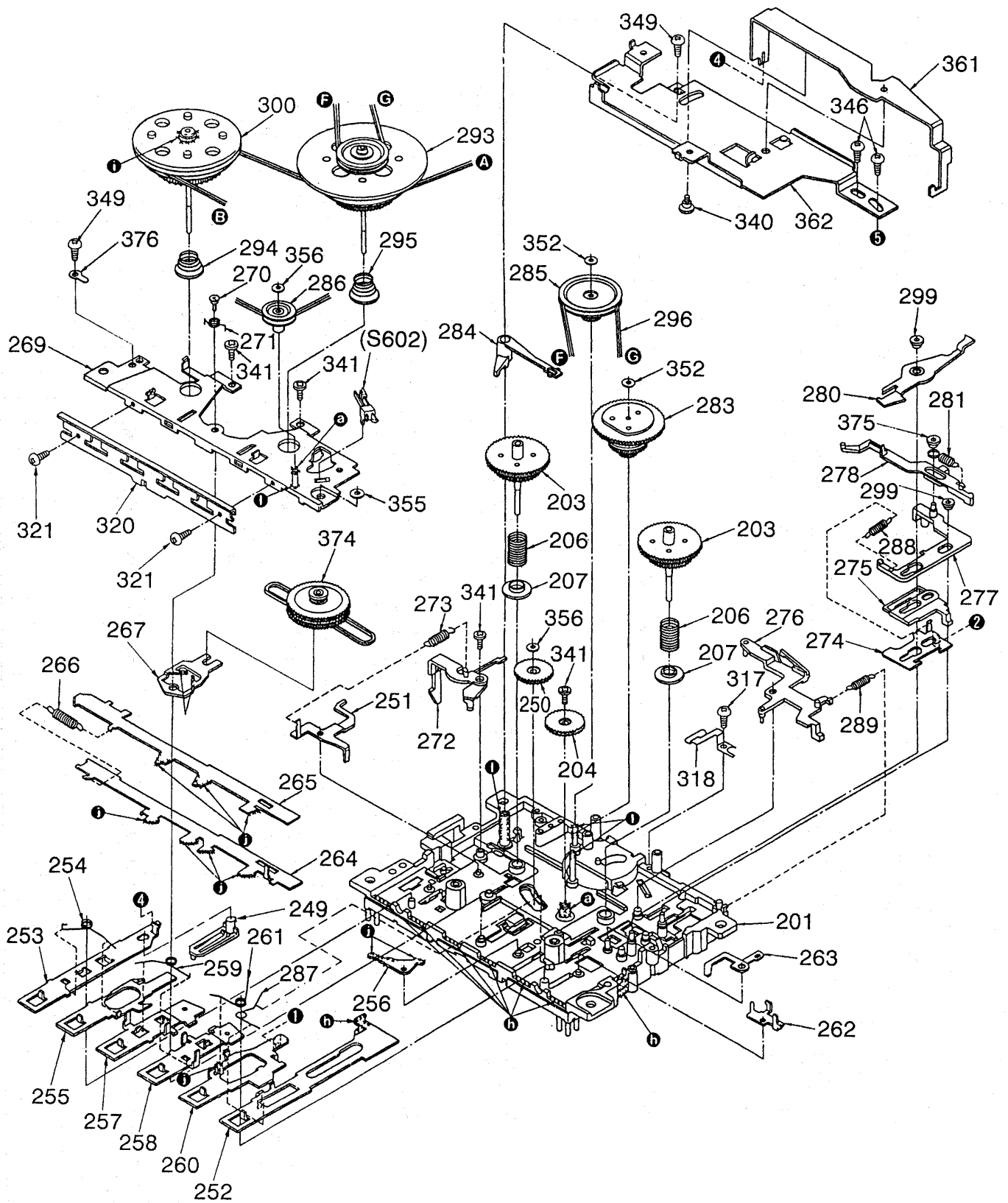
Mechanism Parts Location

DECK 1 (For recording and playback)



●DECK 2 (For playback only)





■ Replacement Parts List (Mechanism)

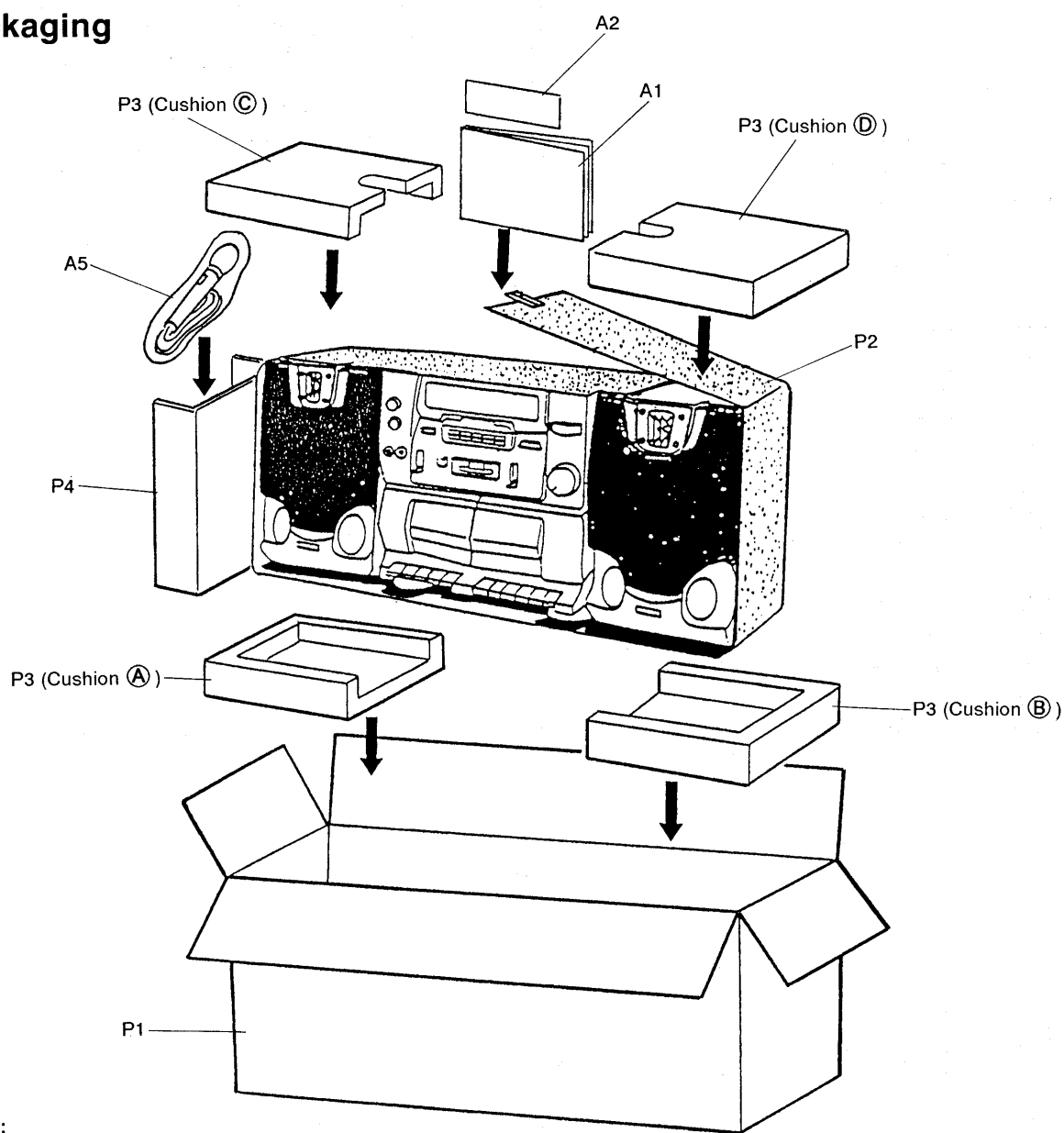
Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
		MECHANISM PARTS		149	RFY720ZA	REV CUE LEVER	[M]
		DECK1		150	RFS627ZA	SPRING	[M]
101	RJH4C29MYAS	R/P HEAD	[M]	153	RFE293ZA	PLATE LUG	[M]
102	RFH39ZA	E HEAD	[M]	157	RFY1064ZA	SW HOLDER	[M]
103	RFU214ZA	HEAD CHASSIS ASS'Y	[M]	161	RFE602ZA	SCREW BUSH	[M]
104	RFB82ZA	FLYWHEEL W ASS'Y	[M]	162	RFE578ZA	SCREW	[M]
105	RFN237ZA	WASHER	[M]	163	RFE577ZA	SCREW	[M]
106	RFB117ZA	MAIN BELT	[M]	164	RFE545ZA	SCREW	[M]
107	RFB118ZA	RF BELT	[M]			DECK2	
108	RFN168ZA	WASHER	[M]	201	RFU197ZA	MECHA CHASSIS ASS'Y	[M]
109	RFS919ZA	CASSETTE SPRING	[M]	203	RFE154ZA	GEAR REEL	[M]
110	RFE579ZA	SCREW	[M]	204	RFG145ZA	GEAR FWD	[M]
111	RFY691ZA	E HEAD ARM	[M]	205	RFJ94ZA	CAP REEL	[M]
112	RFU213ZA	MECHA CHASSIS ASS'Y	[M]	206	RFS864ZA	SPRING	[M]
113	RFG153ZA	GEAR F	[M]	207	RFX176ZA	BUSH REEL D	[M]
114	RFJ93ZA	T REEL ASS'Y	[M]	210	RFG155ZA	REVERSE GEAR ASS'Y	[M]
115	RFE307ZA	BUSH B	[M]	211	RFX141ZA	COLLER B	[M]
116	RFK27ZA	IDLER ARM ASS'Y	[M]	212	RFD410ZA	IDLER PLATE ASS'Y	[M]
117	RFJ61ZA	REEL S	[M]	213	RFY975ZA	PLATE REVERSE A	[M]
118	RFS631ZA	SPRING	[M]	214	RFY976ZA	PLATE REVERSE B	[M]
119	RFY692ZA	PLATE INTERLOCK	[M]	215	RFD413ZA	PLATE MO JOINT	[M]
120	RFE295ZA	ARM SENSER	[M]	216	RFS906ZA	SPRING	[M]
121	RFS644ZA	PINCH ARM SPRING	[M]	217	RFS866ZA	SPRING	[M]
122	RFR66ZA	PINCH ARM ASS'Y	[M]	218	RFX179ZA	STOPPER	[M]
123	RFS634ZA	SPRING EARTH	[M]	219	RFE531ZA	SCREW BUSH	[M]
124	RFS855ZA	SPRING	[M]	221	RFU200ZA	CHASSIS HEAD	[M]
125	RFE576ZA	SCREW	[M]	222	RFY1003ZA	PLATE SLIDE B	[M]
126	RFE581ZA	SCREW	[M]	235	RFS870ZA	SPRING	[M]
127	RFN222ZA	WASHER	[M]	236	RFS909ZA	SPRING	[M]
128	RFY970ZA	LEVER PAUSE W	[M]	237	RFG156ZA	HOLDER GEAR	[M]
129	RFY770ZA	LEVER SE	[M]	238	RFY980ZA	LEVER GEAR STOP	[M]
130	RFS856ZA	SPRING	[M]	239	RFS917ZA	SPRING	[M]
131	RFY771ZA	LEVER FF	[M]	245	RFS876ZA	SPRING	[M]
132	RFY971ZA	LEVER REW	[M]	246	RFS875ZA	SPRING	[M]
133	RFS904ZA	SPRING	[M]	247	RFS878ZA	SPRING	[M]
134	RFY972ZA	LEVER PLAY	[M]	248	RFS910ZA	SPRING	[M]
135	RFS905ZA	SPRING	[M]	249	RFY935ZA	ARM PAUSE STOP	[M]
136	RFY774ZA	LEVER REC	[M]	250	RFG149ZA	GEAR IDLER	[M]
138	RFY700ZA	PLATE FUNCTION	[M]	251	RFY981ZA	PLATE SENSER STOP	[M]
139	RFS897ZA	SPRING	[M]	252	RFS982ZA	LEVER DR	[M]
140	RFY701ZA	PLATE S MOVEMENT	[M]	253	RFY934ZA	LEVER PAUSE	[M]
141	RFS859ZA	SPRING	[M]	254	RFS911ZA	SPRING	[M]
142	RFQ76ZA	DRIVE PULLY ASS'Y	[M]	255	RFY937ZA	LEVER STOP	[M]
143	RFY703ZA	LEVER EJECT	[M]	256	RFY940ZA	ARM CUE STOP	[M]
144	RFY973ZA	HOLDER LEVER	[M]	257	RFY983ZA	LEVER FF	[M]
145	RFE308ZA	BUSH C	[M]	258	RFY984ZA	LEVER REW	[M]
146	RFS640ZA	SPRING	[M]	259	RFS879ZA	SPRING	[M]
147	RFS689ZA	SPRING	[M]	260	RFY941ZA	LEVER PLAY B	[M]
148	RFY974ZA	LEVER HOLDER	[M]	261	RFS912ZA	SPRING	[M]
				262	RFD421ZA	PLATE SWITCH A	[M]

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
263	RFY985ZA	PLATE SWITCH B	[M]	341	RFE602ZA	SCREW BUSH	[M]
264	RFY986ZA	PLATE FUNCTION A	[M]	344	RFE578ZA	SCREW	[M]
265	RFY987ZA	PLATE FUNCTION B	[M]	346	RFE545ZA	SCREW	[M]
266	RFS883ZA	SPRING	[M]	349	RFE579ZA	SCREW	[M]
267	RFD423ZA	LEVER FF IDLER	[M]	352	RFN233ZA	WASHER	[M]
269	RFY988ZA	LEVER HOLDER ASS'Y	[M]	353	RFN236ZA	WASHER	[M]
270	RFE532ZA	SCREW	[M]	354	RFN234ZA	WASHER	[M]
271	RFS884ZA	SPRING	[M]	355	RFN235ZA	WASHER	[M]
272	RFY989ZA	LEVER EJECT	[M]	356	RFN162ZA	WASHER	[M]
273	RFS913ZA	SPRING	[M]	361	RFY998ZA	MODE ARM	[M]
274	RFD424ZA	PLATE MO	[M]	362	RFD435ZA	MODE HOLDER	[M]
275	RFY990ZA	LEVER MO	[M]	370	RFH55ZA	HEAD BLOCK ASS'Y	[M]
276	RFY991ZA	LEVER DR	[M]	371	RFR67ZA	PINCH ROLLER (R) ASS'Y	[M]
277	RFY948ZA	LEVER SENSER	[M]	372	RFR68ZA	PINCH ROLLER (L) ASS'Y	[M]
278	RFY949ZA	LEVER SENSER B	[M]	373	RFM172ZA	MOTOR ASS'Y	[M]
280	RFY950ZA	LEVER CANCEL B	[M]	374	RFK29ZA	FF IDLER PLATE ASS'Y	[M]
281	RFS887ZA	SPRING	[M]	375	RFE539ZA	BUSH	[M]
283	RFJ95ZA	TENSION B ASS'Y	[M]	376	RFY992ZA	LUG PLATE	[M]
284	RFY951ZA	ARM SENSER STOP	[M]				
285	RFQ66ZA	PULLY DRIVE	[M]				
286	RFQ72ZA	PULLY	[M]				
287	RFS914ZA	SPRING	[M]				
288	RFS888ZA	SPRING	[M]				
289	RFS915ZA	SPRING	[M]				
291	RFI24ZA	RUBBER CUSHION	[M]				
292	RFE305ZA	SCREW	[M]				
293	RFF89ZA	FLYWHEEL ASS'Y	[M]				
294	RFS889ZA	SPRING	[M]				
295	RFS891ZA	SPRING	[M]				
296	RFB112ZA	RF BELT	[M]				
297	RFB119ZA	MAIN BELT	[M]				
298	RFS890ZA	PLATE SPRING	[M]				
299	RFE260ZA	BUSH	[M]				
300	RFF90ZA	FLYWHEEL ASS'Y	[M]				
301	RFY993ZA	CONNECT PLATE ASS'Y	[M]				
302	RFY994ZA	PAUSE ARM ASS'Y	[M]				
304	RFY995ZA	ARM CONNECT	[M]				
305	RFY996ZA	ARM LOCK	[M]				
306	RFY997ZA	ARM STOP	[M]				
307	RFS916ZA	SPRING	[M]				
308	RFX40ZA	RING CS	[M]				
309	RFN223ZA	WASHER	[M]				
311	RFW3ZA	STEEL BALL	[M]				
312	RFE605ZA	TUBE	[M]				
314	RFE550ZA	PLATE LUG	[M]				
315	RFD434ZA	MOTOR ANGLE	[M]				
317	RFE540ZA	SCREW	[M]				
318	RFD419ZA	PLATE SPRING DR	[M]				
320	RFD425ZA	HOLDER	[M]				
321	RFE414ZA	SCREW	[M]				
323	RFD414ZA	PLATE PROTECT REC	[M]				
340	RFE543ZA	SCREW	[M]				

■ Replacement Parts List (Packing, Accessories)

Ref.No.	Part No.	Part Name & Description	Remarks	Ref.No.	Part No.	Part Name & Description	Remarks
		PACKING MATERIALS		A2	RQCB0169	SERVICENTRE LIST	[M]
P1	RPGX0428	GIFT BOX	[M]	A3	RJA0019-X	AC CORD	[M] (GC) △
P2	RPH3SZB	MIRAMAT SHEET	[M]	A3	RJA0004	AC CORD	[M] (GU) △ (SF)
P3	RPNX0069	CUSHION	[M]	A4	SJP5213-2	AC PLUG ADAPTOR	[M] (GC) △
P4	RPQX0062	PAD	[M]	A4	RJP1SG02-H	AC PLUG ADAPTOR	[M] (GU) △
		ACCESSORIES		A5	RJM0014	KARAOKE MIC	[M]
						TEST TAPE	
				SA1	QZZCWAT	TEST TAPE (TAPE SPEED etc.)	[M]
A1	RQT4038-G	INSTRUCTION MANUAL	[M]	SA2	QZZCFM	TEST TAPE (AZIMUTH etc.)	[M]

■ Packaging



Notes:
P3: Cushion (A), (B), (C), (D) Part No. RPNX0069
A3: AC CORD (RJA0019-X) (GC area)
 (RJA0004) (GU area)
A4: AC PLUG ADAPTOR (SJP5213-2) (GC area)
 (RJP1SG02-H) (GU area)

} Put them in the battery case.