

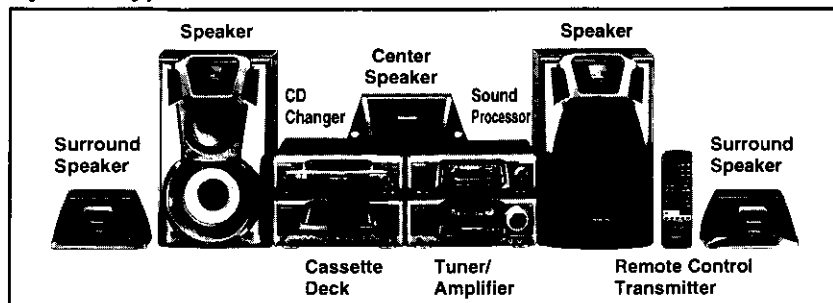
Service Manual

Stereo Cassette Deck

Cassette Deck

RS-EH600

System Type A



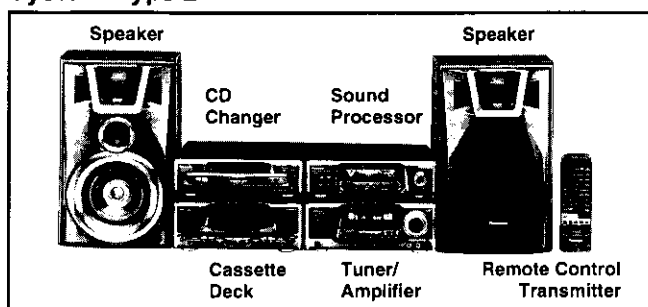
Colour

(K) Black Type
(H) Gray Type

Areas

(GK) China.
(GCS) ... Asia, Latin America,
Middle East, Africa
and Oceania.

System Type B



DOLBY B NR * 1

Because of unique interconnecting cables,
when a component requires service, send or
bring in the entire system.

* 1: Dolby noise reduction manufactured
under license from Dolby Laboratories
Licensing Corporation.
"Dolby" and the double-D symbol are
trade marks of Dolby Laboratories
Licensing Corporation.

* 2: Made in Singapore

AR-2 MECHANISM SERIES

Specifications

Deck system : Stereo cassette deck
Track system : 4 track, 2 channels
Recording system : AC bias
Bias frequency : 100 kHz
Erasing system : AC erase
Heads :
 DECK 1 (Playback head) ; Permalloy head
 DECK 2 (Recording/Playback head) ; Permalloy head
 (Erasing head) ; Double gap ferrite head
Motors :
 DECK 1, 2 Capstan drive ; DC servo motor
Tape speed : 4.8 cm/sec.
Wow and flutter : 0.16 % (WRMS)
Fast forward and rewind times : Approx. 110 seconds
with C-60 cassette tape

Frequency response (Dolby NR off) :

TYPE I (NORMAL) ; 20 Hz-16 kHz (DIN)
TYPE II (HIGH) ; 20 Hz-16 kHz (DIN)
TYPE IV (METAL) ; 20 Hz-16 kHz (DIN)

S/N (Signal level = max recording level, TYPE II type tape) :

NR off ; 56 dB (A weighted)
Dolby B NR on ; 66 dB (A weighted)

Input sensitivity and impedance :

REC (IN) ; 400 mV/23 kΩ

Output voltage and impedance :

PLAY (OUT) ; 280 mV/360 Ω

Dimensions : 287 (W) × 118.5 (H) × 277 (D) mm

Weight : 2.0 kg

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

System	System Type A				System Type B
	SC-VC968	SC-VC868	SC-VC848	SC-EH501	SC-VC838
Colour	(K)	(K)	(H)	(K)	(H)
Sound Processor	SH-EH600	SH-EH500	SH-EH500	SH-EH500	SH-EH400
Tuner / Amplifier	SA-EH600	SA-EH500	SA-EH501	SA-EH501	SA-EH400
CD Changer	SL-EH600	SL-EH600	SL-EH600	SL-EH600A	SL-EH600
Cassette Deck	RS-EH600	RS-EH600	RS-EH600	RS-EH600	RS-EH600
Front Speakers*2	SB-VC968	SB-VC868	SB-VC848	SB-EH501	SB-VC868
Center Speaker*2	SB-PC600X	SB-PC600X	SB-PC600X	SB-PC600X	-
Surround Speakers*2	SB-PS600X	SB-PS600X	SB-PS600X	SB-PS600X	-

⚠ 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

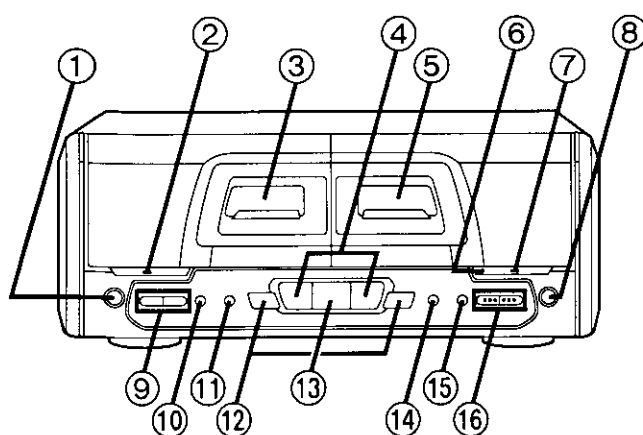
	Page		Page
Location of Controls	2	Type Illustration of IC's, Transistors and Diodes	24
Operation Checks and		Wiring Connection Diagram	24
Main Component Replacement Procedures	3 ~ 12	Terminal Function of IC's	25
To Supply Power Source	13	Block Diagram	26, 27
To Check Signals	13	Measurements and Adjustments	28 ~ 30
Service Mode Function of Cassette Mechanism	14, 15	Replacement Parts List	31 ~ 33
Schematic Diagram	16 ~ 21	Mechanism Parts Location	34, 35
Printed Circuit Board Diagram	22, 23	Cabinet Parts Location	36

Note :

For information on "Accessories", "Installation", "Connections" and "Packaging", refer to the service manual as indicated below:

System	SC-VC968	SC-VC868	SC-VC848	SC-VC838	SC-EH501
Model No.	SA-EH600	SA-EH500	SA-EH501	SA-EH400	SA-EH501
Order No.	AD9712166C3	AD9712178C3	AD9712182C3	AD9712179C3	AD9712182C3

■ Location of Controls



- ① Deck 1 cassette holder open button (▲ OPEN)
- ② Deck 1 indicator (DECK 1)
- ③ Deck 1 cassette holder
- ④ Playback buttons and indicators (<,>)
- ⑤ Deck 2 cassette holder
- ⑥ Record pause indicator (REC PAUSE)
- ⑦ Deck 2 indicator (DECK 2)
- ⑧ Deck 2 cassette holder open button (▲ OPEN)
- ⑨ Counter reset, display buttons (COUNTER, RESET, DISPLAY)
- ⑩ Deck 1/deck 2 select button (DECK 1/2)
- ⑪ Reverse mode select button (REV MODE)
- ⑫ Fast forward/rewind buttons (<< , >>)
- ⑬ Stop button (■)
- ⑭ Dolby noise reduction button (DOLBY NR)
- ⑮ Record pause button (● REC PAUSE)
- ⑯ Tape edit buttons (TAPE EDIT, NOR, HIGH)

■ Operation Checks and Main Component Replacement Procedures

NOTE

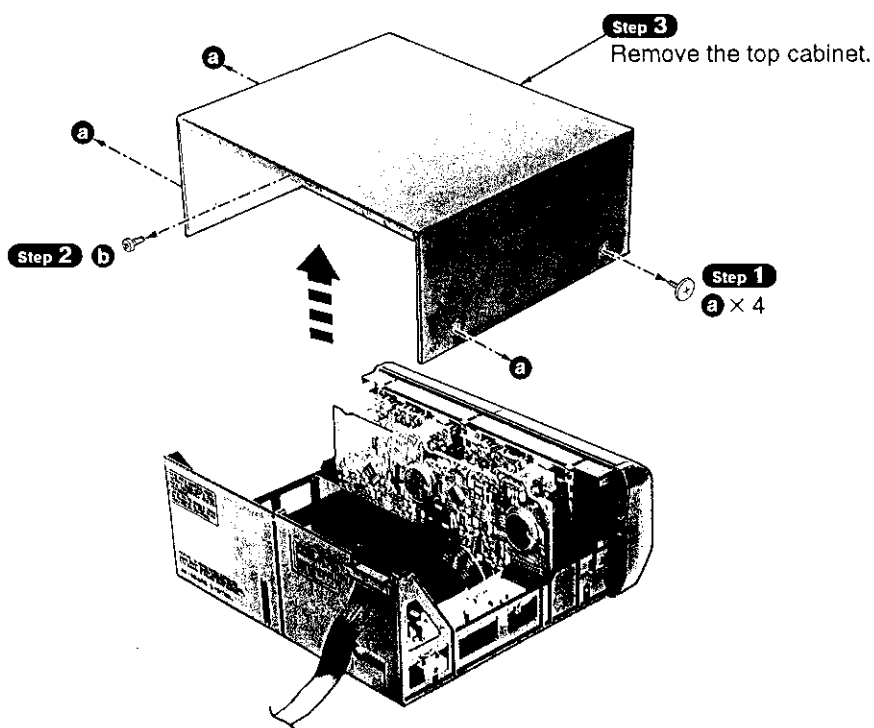
1. This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.
2. For reassembly after operation checks or replacement, reverse the respective procedures. Special reassembly procedures are described only when required.
3. Select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

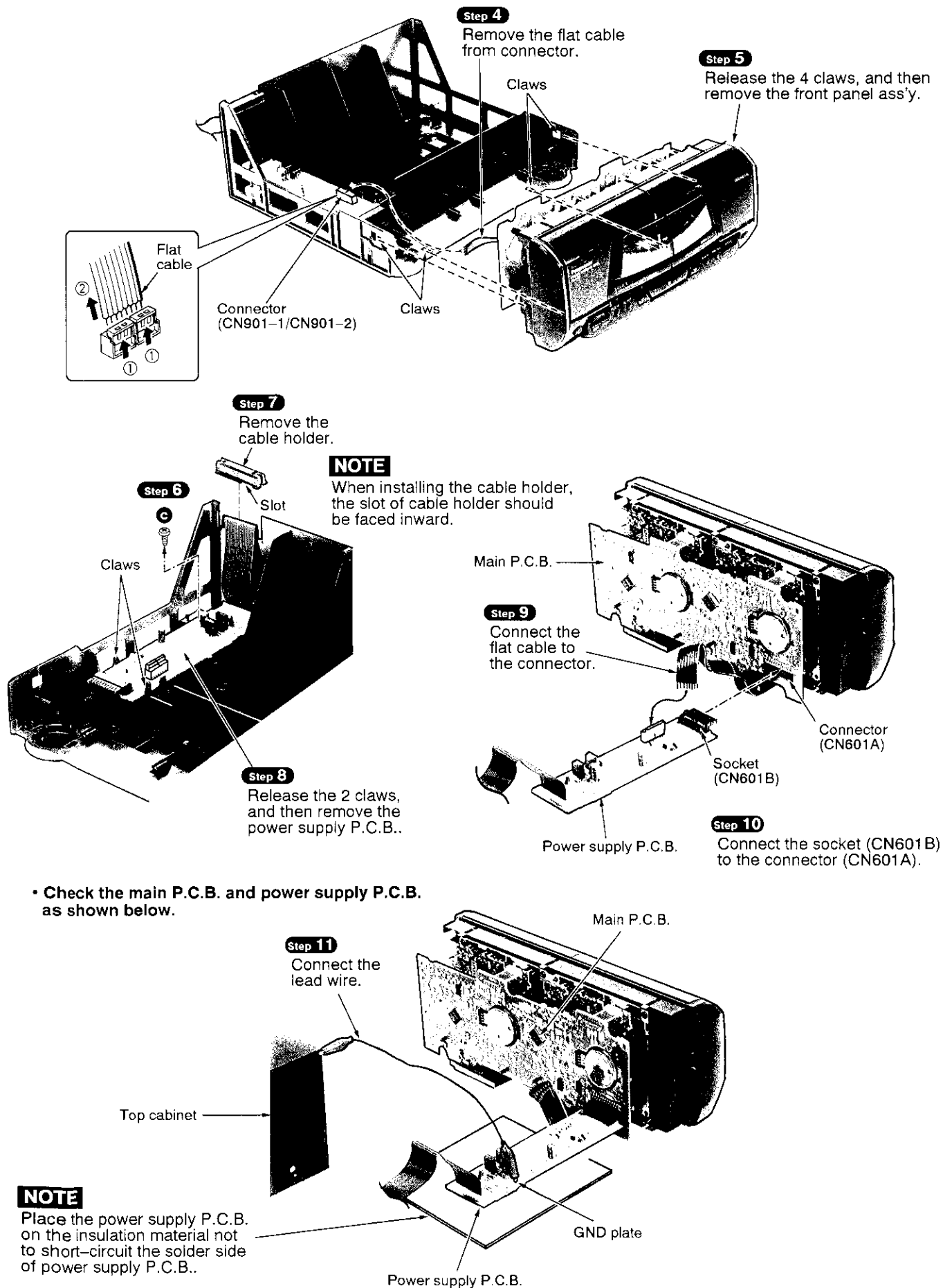
● Contents

•Checking Procedure for each P.C.B.	Page.
1. Checking for the main P.C.B. and power supply P.C.B..	3,4.
2. Checking for the operation P.C.B..	5,6.
•Main Component Replacement Procedures	
1. Replacement for the cassette panel ass'y.	7.
2. Replacement for the cassette holder.	7.
3. Replacement for the motor ass'y, capstan belt and winding belt.	8~11.
4. Replacement for the plunger ass'y and the parts mounted on mechanism P.C.B..	11,12.
5. Replacement for the head block and pinch roller ass'y.	12.

■ Checking Procedure for each P.C.B.

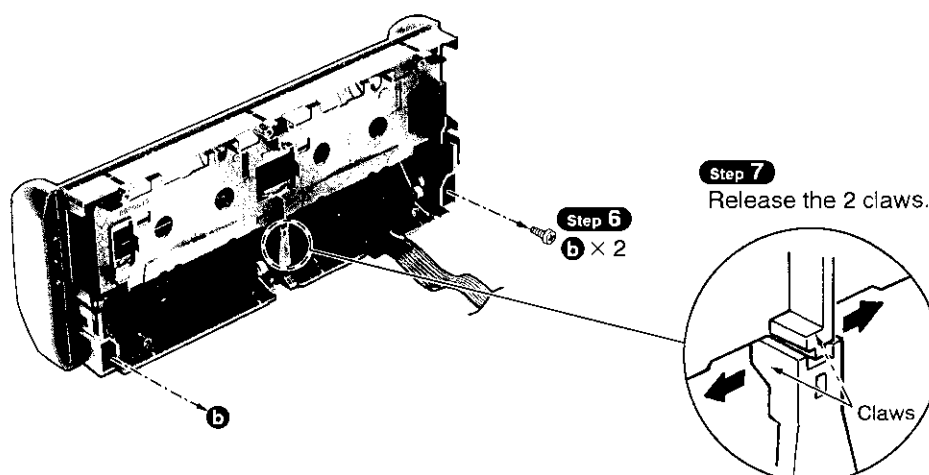
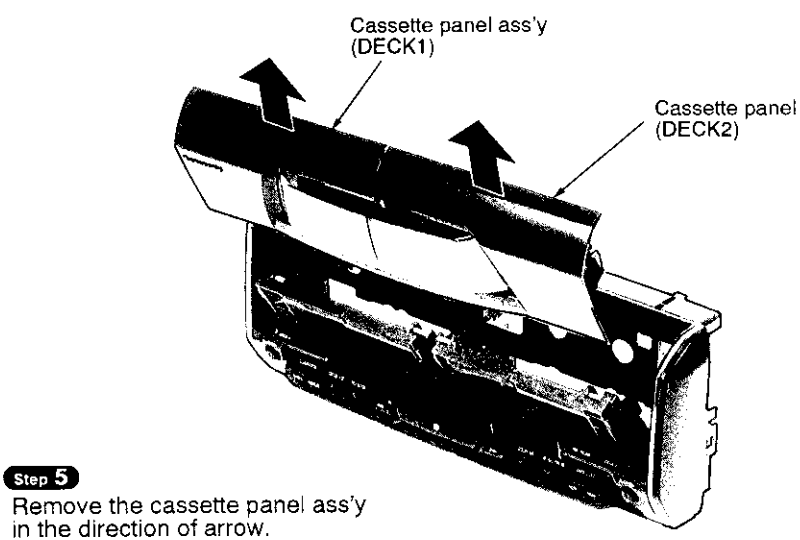
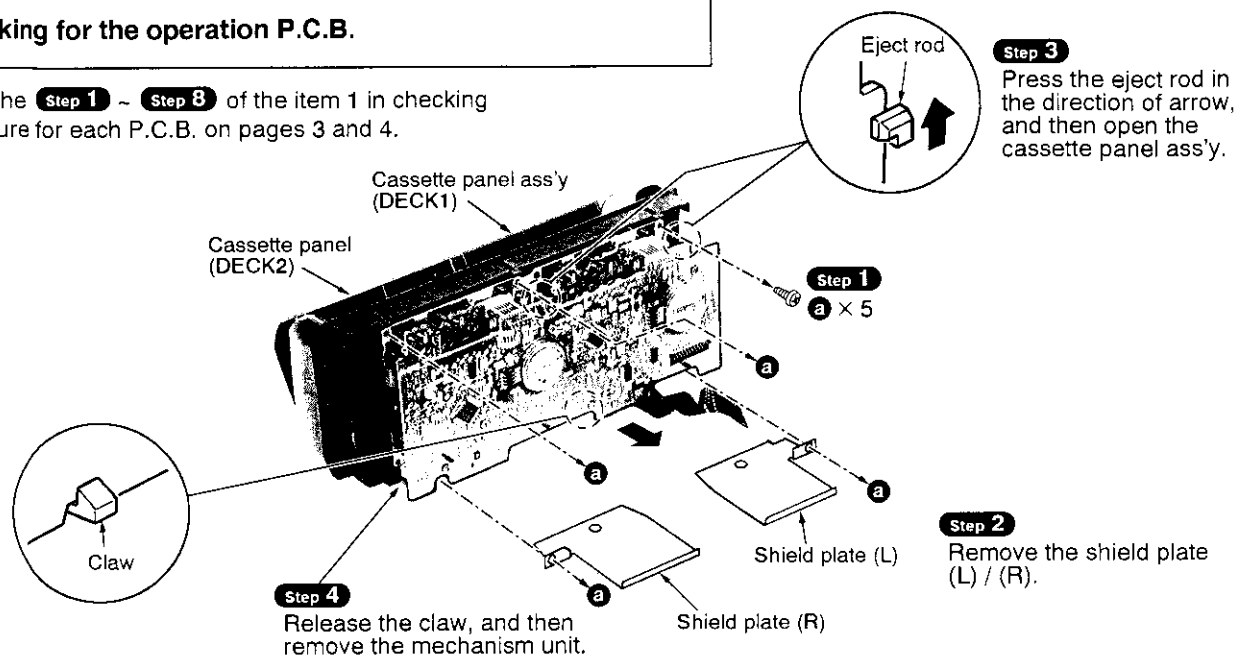
1. Checking for the main P.C.B. and power supply P.C.B.

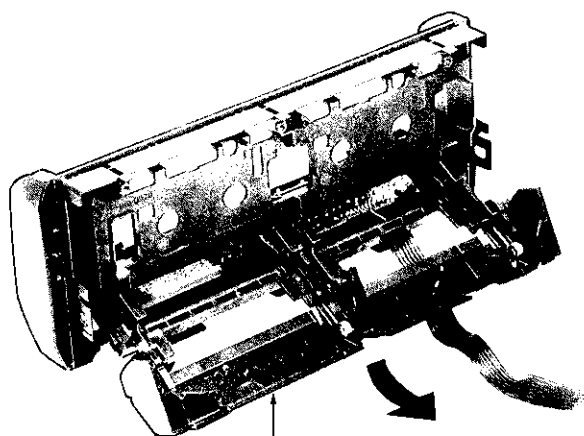




2. Checking for the operation P.C.B.

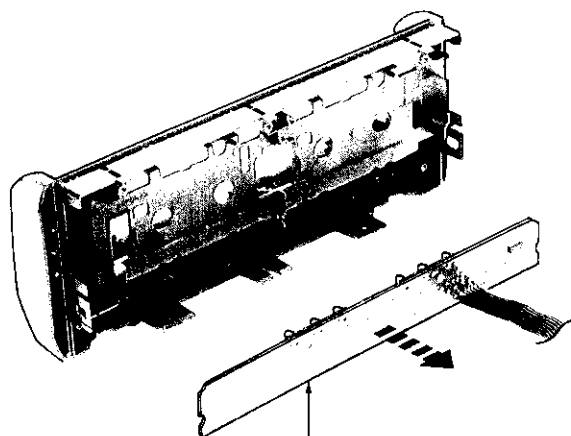
- Follow the **Step 1** ~ **Step 8** of the item 1 in checking procedure for each P.C.B. on pages 3 and 4.





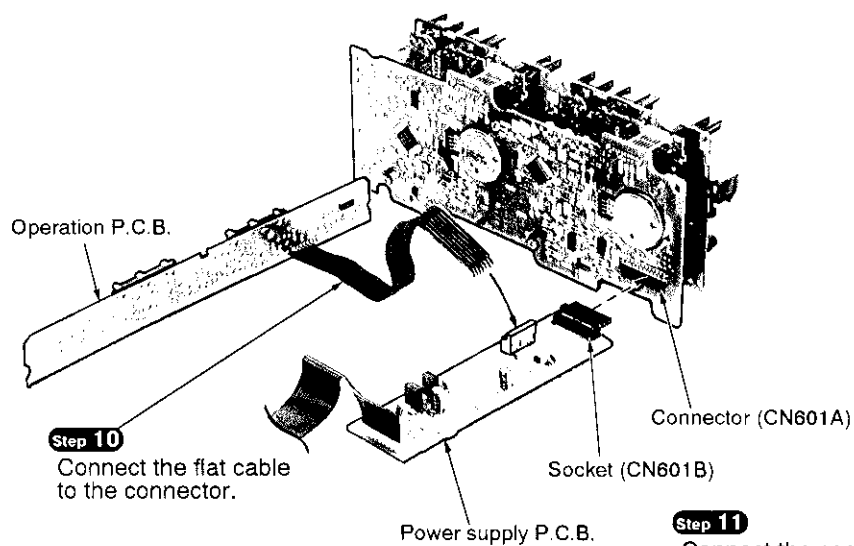
Step 8

Remove the deck mecha frame in the direction of arrow.



Step 9

Remove the operation P.C.B..



Step 10

Connect the flat cable to the connector.

Connector (CN601A)

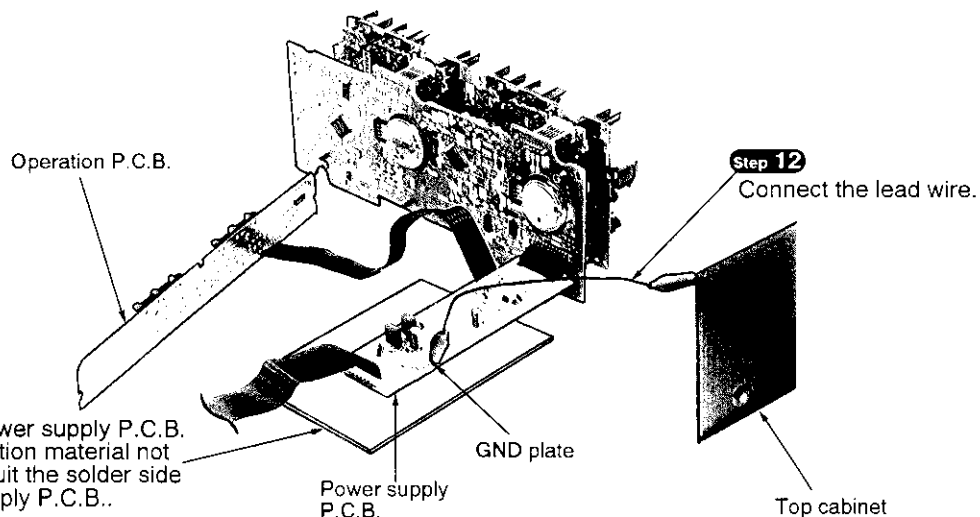
Socket (CN601B)

Power supply P.C.B.

Step 11

Connect the socket (CN601B) to the connector (CN601A).

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



Step 12

Connect the lead wire.

NOTE

Place the power supply P.C.B. on the insulation material not to short-circuit the solder side of power supply P.C.B..

GND plate

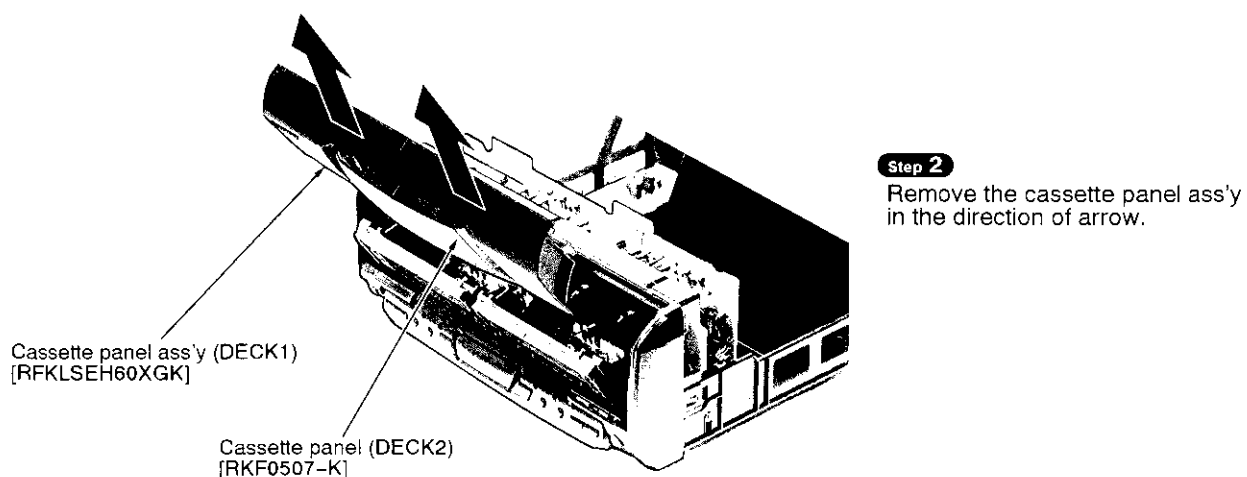
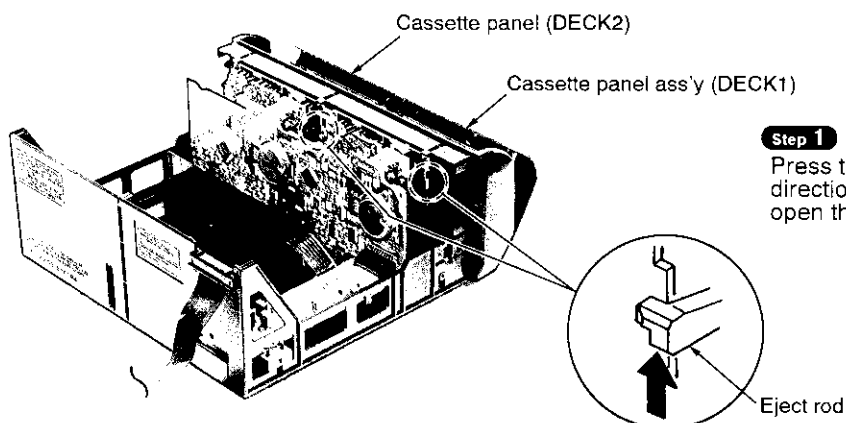
Power supply P.C.B.

Top cabinet

■ Main Component Replacement procedures

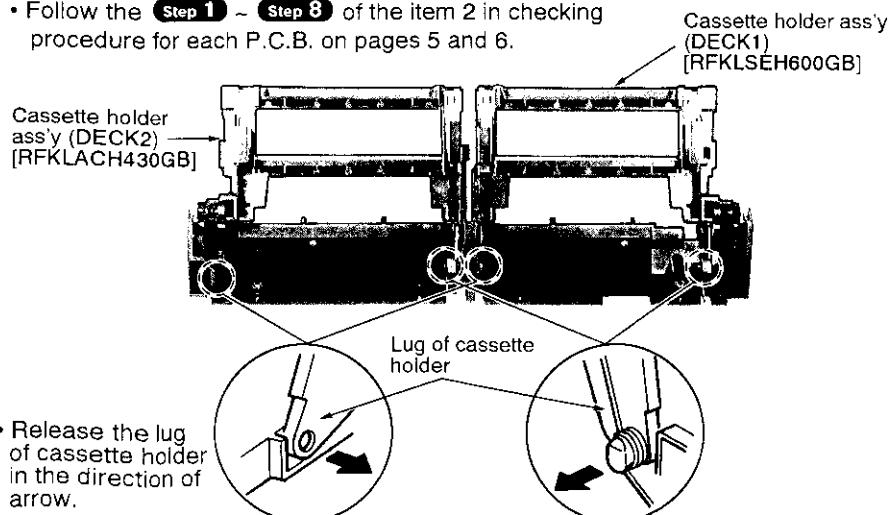
1. Replacement for the cassette panel ass'y

- Follow the **Step 1** ~ **Step 3** of the item 1 in checking procedure for each P.C.B. on pages 3 and 4.

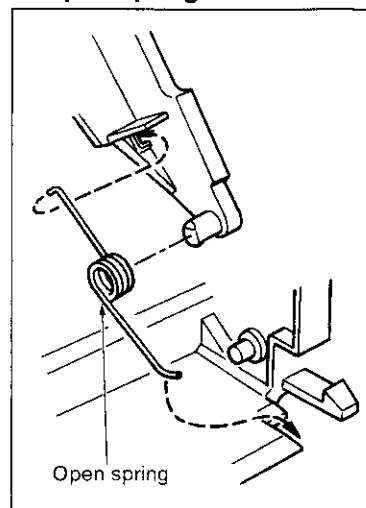


2. Replacement for the cassette holder

- Follow the **Step 1** ~ **Step 5** of the item 1 in checking procedure for each P.C.B. on pages 3 and 4.
- Follow the **Step 1** ~ **Step 8** of the item 2 in checking procedure for each P.C.B. on pages 5 and 6.

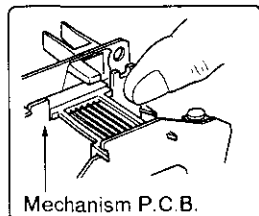


■ Open spring installation



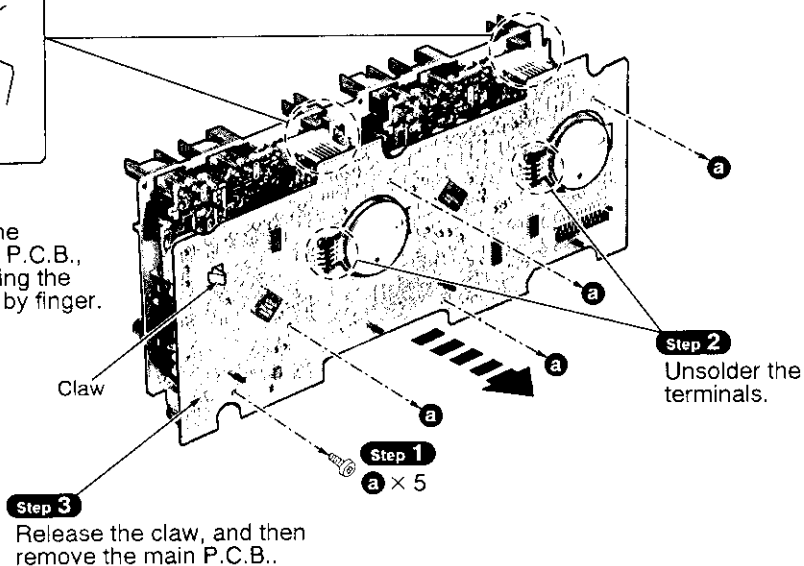
3. Replacement for the motor ass'y, capstan belt and winding belt

- Follow the **Step 1** ~ **Step 5** of the item 1 in checking procedure for each P.C.B. on pages 3 and 4.
- Follow the **Step 1** ~ **Step 4** of the item 2 in checking procedure for each P.C.B. on page 5.



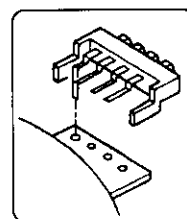
NOTE

When removing the mechanism control P.C.B., remove it with holding the mechanism P.C.B. by finger.



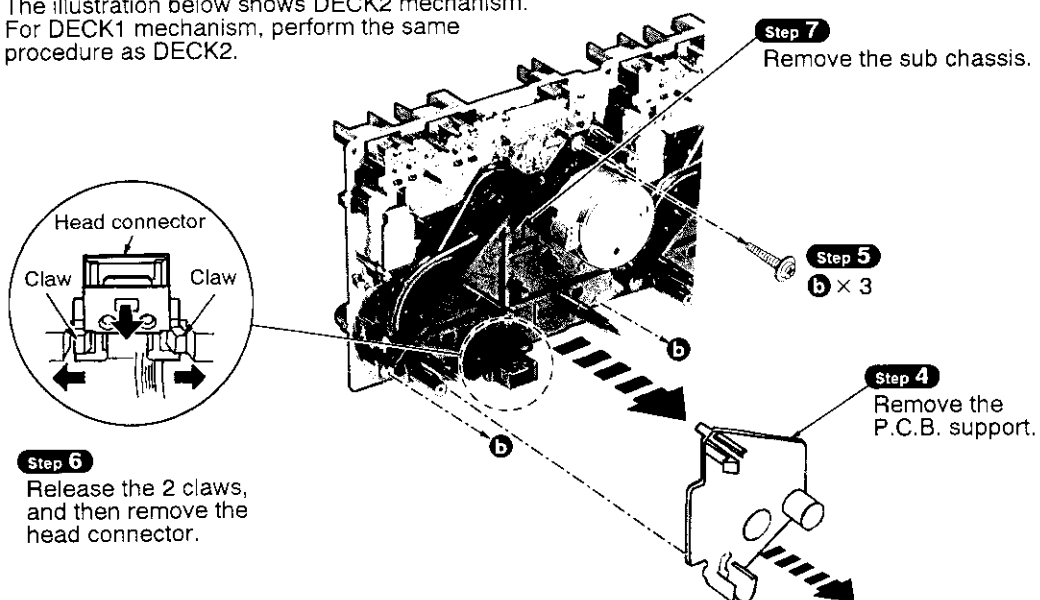
NOTE

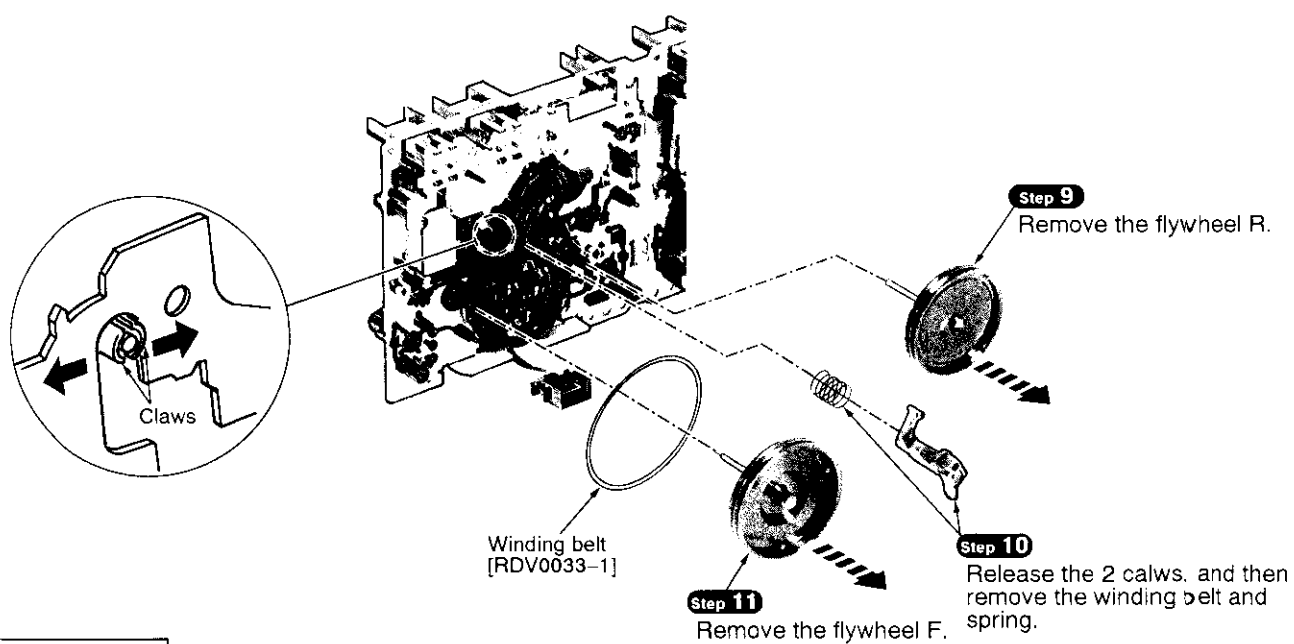
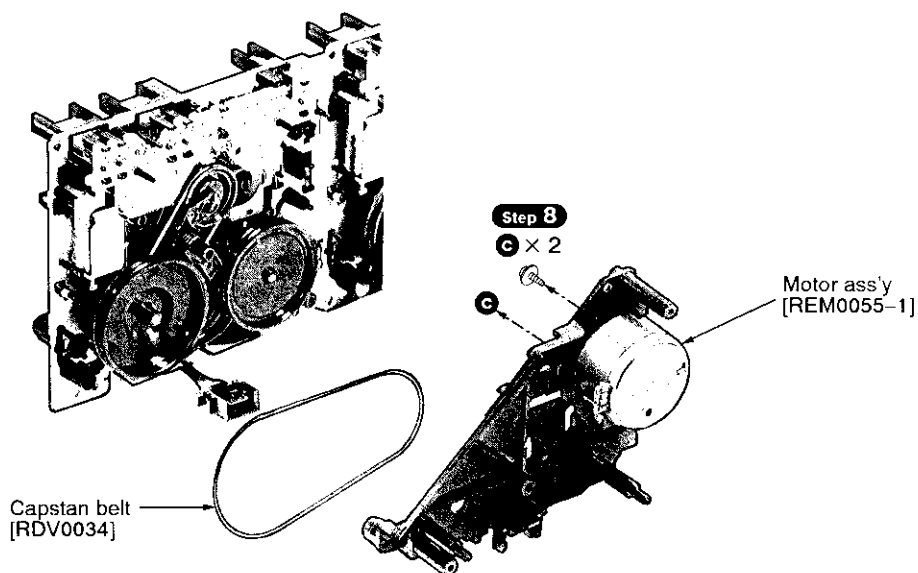
Handle the connector with care so that the shape of terminals different from others.



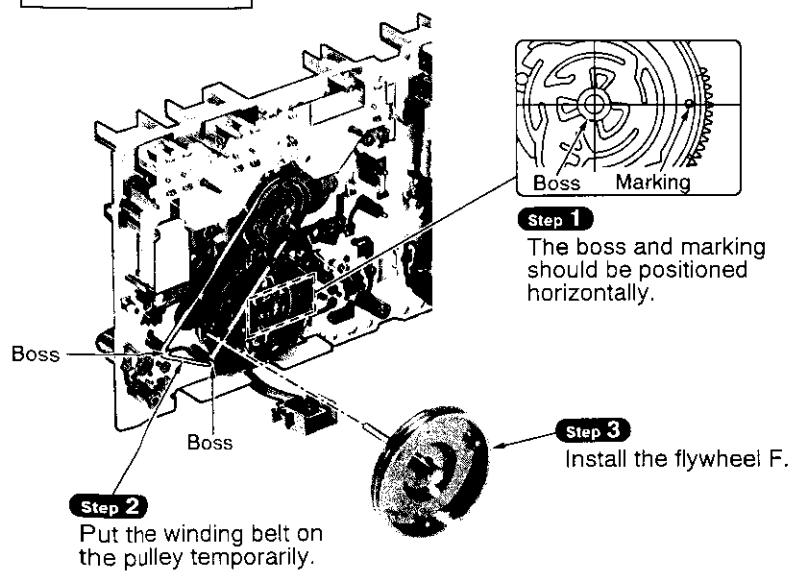
NOTE

The illustration below shows DECK2 mechanism. For DECK1 mechanism, perform the same procedure as DECK2.

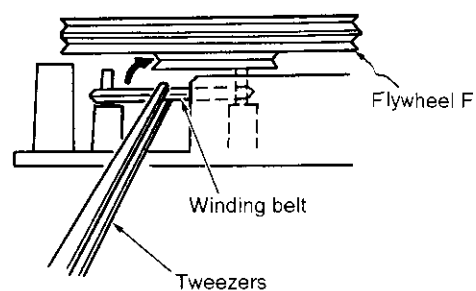




Installing the belt



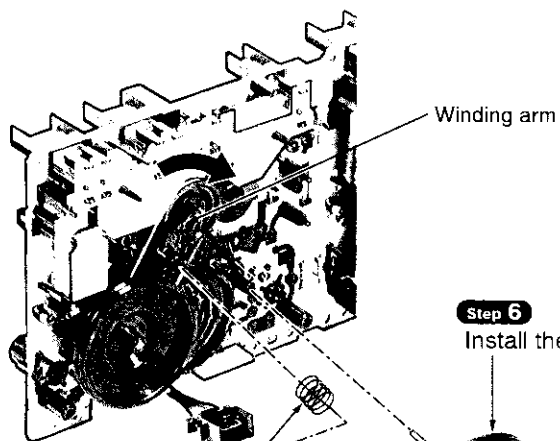
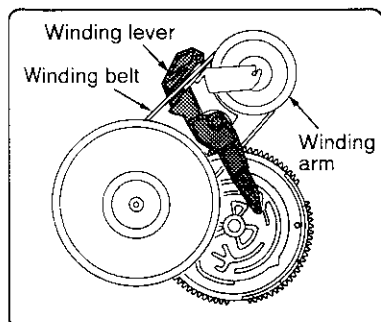
Step 4
Put the winding belt on the flywheel F.



NOTE
Take care not stick the grease on the belt.

NOTE

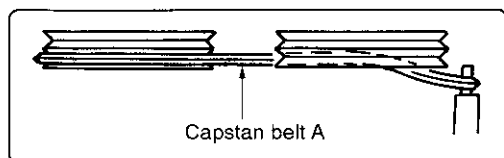
The winding lever should be positioned as shown below.



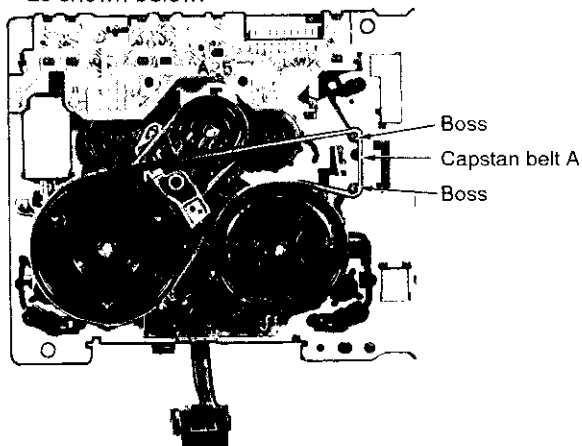
Step 6
Install the flywheel R.

Step 5
Install the winding lever and spring while pressing the winding arm in the direction of arrow.
(The winding lever must be inserted completely and latched with claws.)

Step 7
Put the capstan belt A temporarily as shown below.

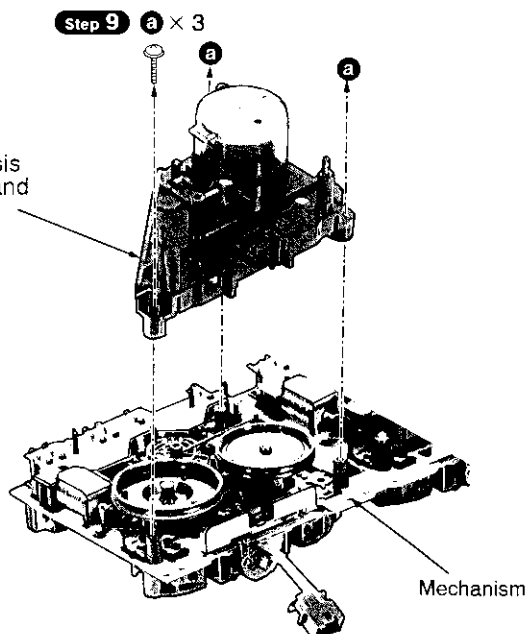


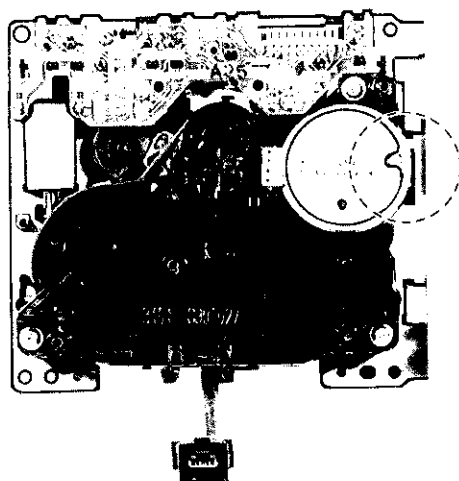
(Side view)



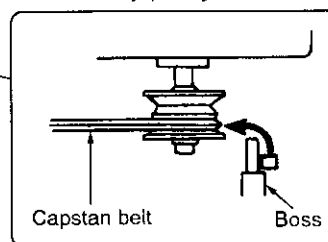
Step 8
Install the sub chassis to the mechanism, and then tighten screws.

Step 9 a × 3



**Step 10**

Put the capstan belt on the motor ass'y pulley.

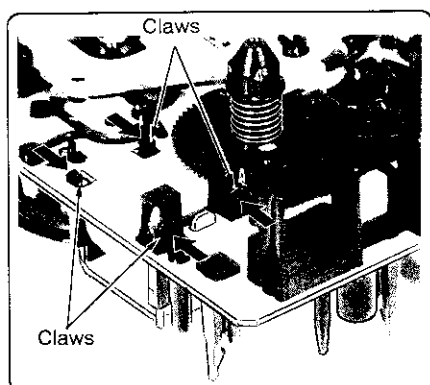
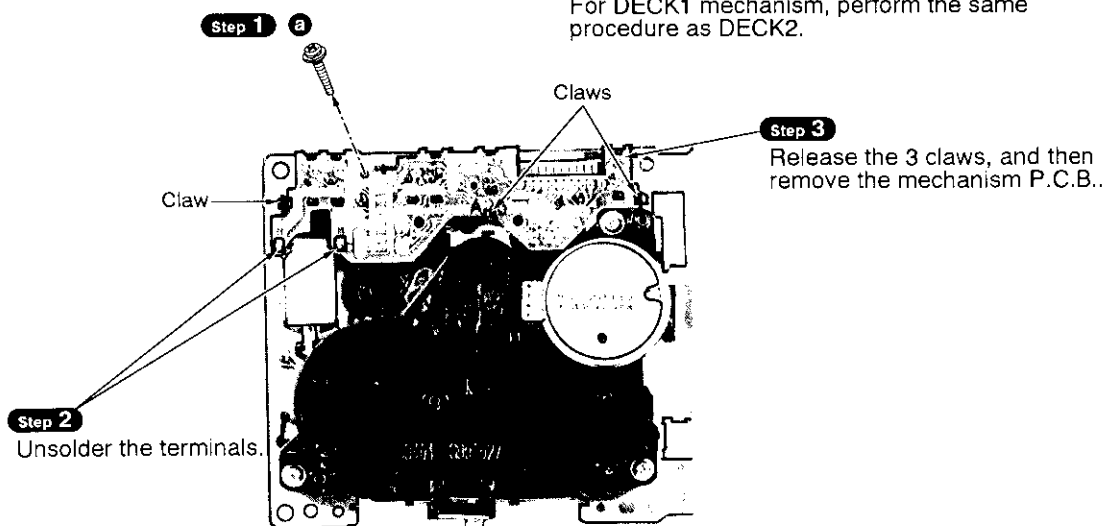


4. Replacement for the plunger ass'y and the parts mounted on mechanism P.C.B.

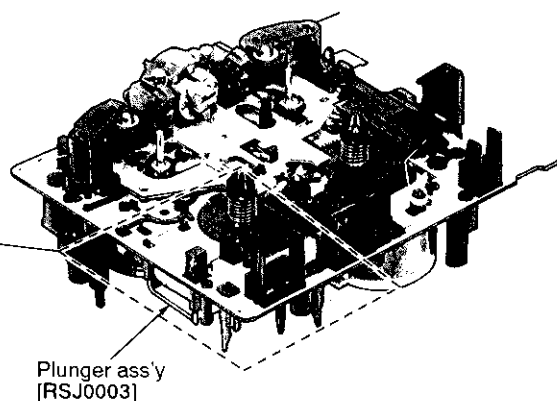
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- Follow the **Step 1** ~ **Step 4** of the item 2 in checking procedure for each P.C.B. on page 5.
- Follow the **Step 1** ~ **Step 3** of the item 3 in main component replacement procedures on page 8.

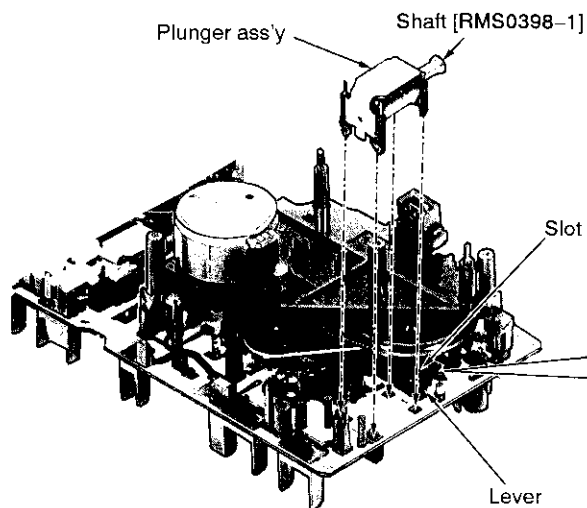
NOTE

The illustration below shows DECK2 mechanism. For DECK1 mechanism, perform the same procedure as DECK2.

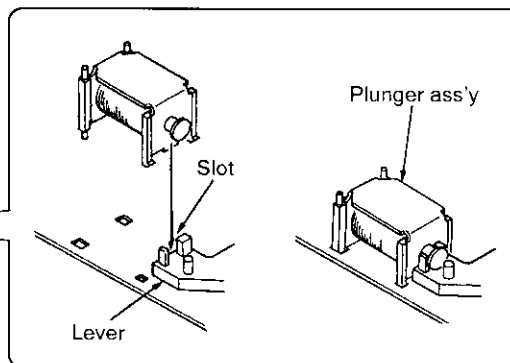


Step 4 Release the 4 claws.



**NOTE****Notice for installing the plunger ass'y**

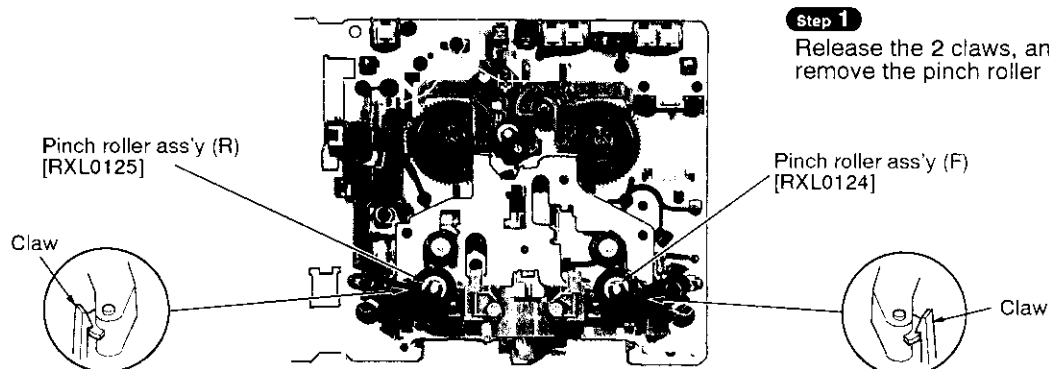
- The shaft of plunger ass'y should be aligned with the slot of lever.

**5. Replacement for the head block and pinch roller ass'y**

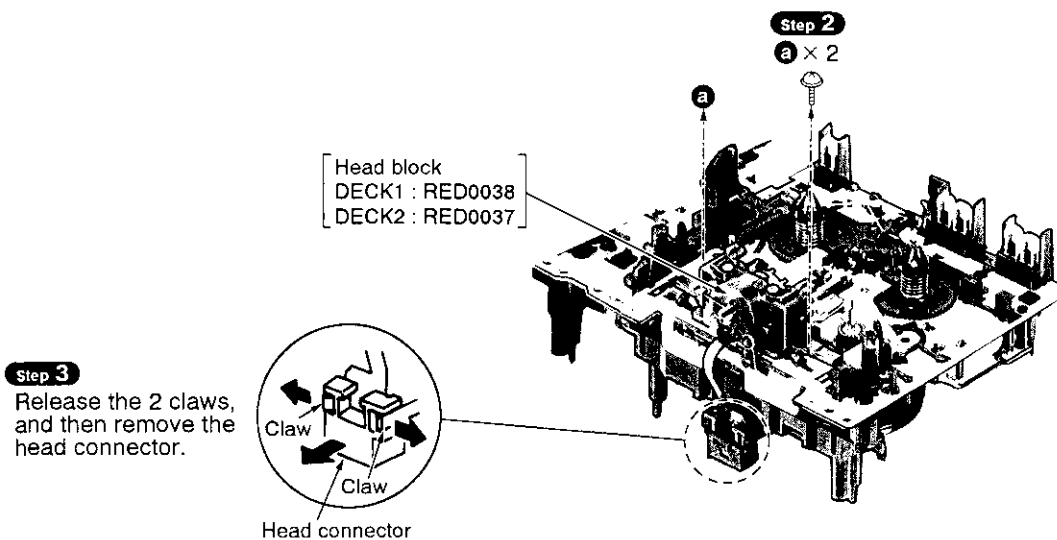
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- Follow the **Step 1** ~ **Step 4** of the item 2 in checking procedure for each P.C.B. on page 5.
- Follow the **Step 1** ~ **Step 3** of the item 3 in main component replacement procedures on page 8.

NOTE

The illustration below shows DECK2 mechanism. For DECK1 mechanism, perform the same procedure as DECK2.

**Step 1**

Release the 2 claws, and then remove the pinch roller ass'y (R),(F).

**Step 3**

Release the 2 claws, and then remove the head connector.

■ To Supply Power Source

This unit RS-EH600 is designed to operate on power supplied from the system connected. (For system connection, refer to Fig.1)

When you have to test and service the unit RS-EH600 alone, use the following method to supply power source and operate the unit:

1. Short between J101 and J115. **A** (Fig.2)
2. Short J12, J14 and J114 with each other. **B** (Fig.2)
3. Connect an AF Oscillator to CN601 (10-pin) and **B**, then adjust the output to 100Hz, 5Vrms. (Fig.3)
4. Connect a DC Power Supply to **A** and **B**, then adjust the output to 10V. (Fig.4)

Note : When operated alone, this unit automatically enter the TEST mode, causing either the DECK 1 or DECK 2 indicators to blink.

In TEST mode, please make sure whether the Dolby B indication is on or off by the illumination of DECK 1 cassette holder is lighted on or off.

(DECK 1 illumination lighted on: Dolby ON, illumination Lighted off: Dolby OFF)

■ To Check Signals

Connect an Oscilloscope or a built-in amplifier speaker between line output for L-ch (**TP608**) and **A.GND**, and line out for R-ch (**TP607**) and **A.GND** and check if the signals are outputting from this unit.

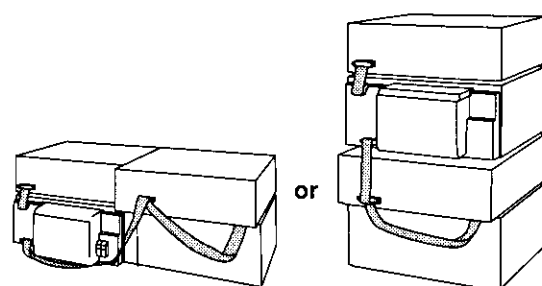


Fig. 1

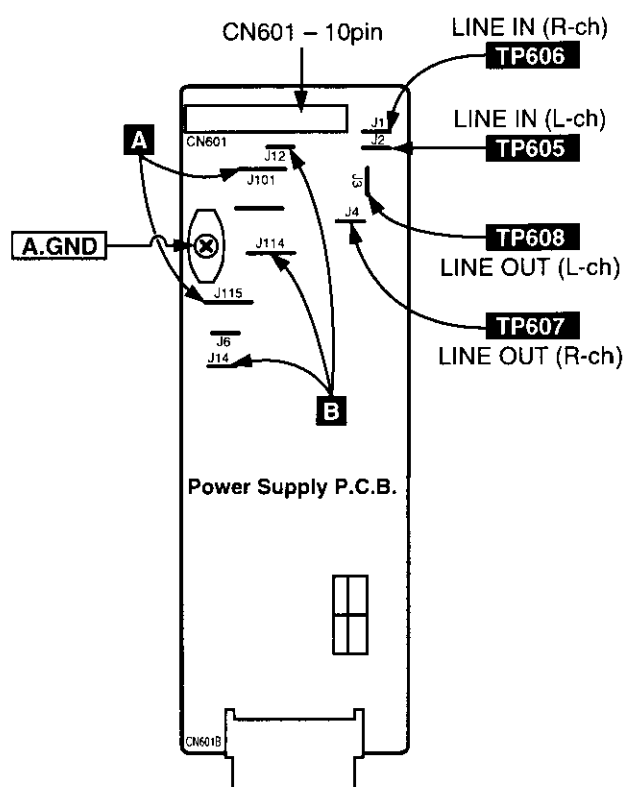


Fig. 2

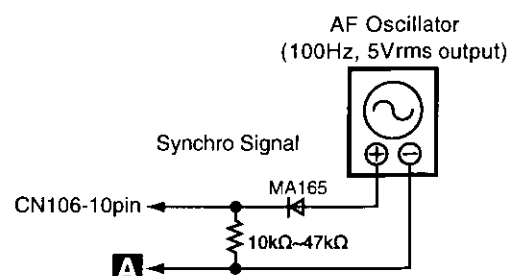


Fig. 3

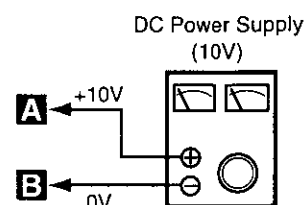


Fig. 4

■ Service Mode Function of Cassette Mechanism

This unit is equipped with a service mode function of cassette mechanism using the LED indicators [R. PLAY (◀), F. PLAY (▶)] and cassette holder illuminations [DECK 1, DECK 2].

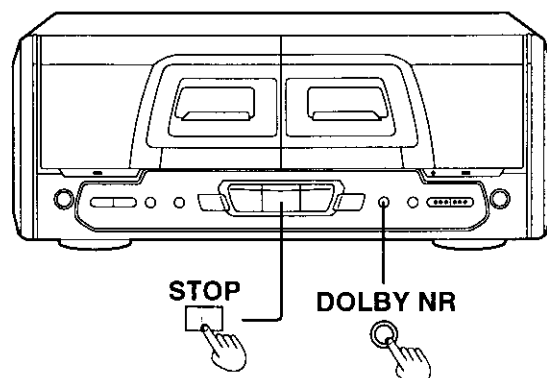
Use this function during maintenance to check faults of the items below.

● Cassette tapes to be prepared

- Metal tape: Recorded music tape with only one erase-prevention tab intact (use middle portion of tape).
 Normal tape: Recorded music tape with both erase-prevention tabs intact
 CrO2 tape: (use middle portion of tape).

● Selecting Service Mode

1. Turn on the power to the unit. (If RS-EH600 unit is removed from system, turn it on according to the procedure on page 13.)
2. Check that no tape is inserted in the cassette deck.
Press the DOLBY NR button for about 2 seconds, and keep pressing it, also press the STOP button for about 2 seconds. (Service mode cannot be selected with a tape inserted in the cassette deck.)
3. The LED indicator for REC PAUSE flashes, the service mode has been activated.



● Deck 1 Mechanism Check

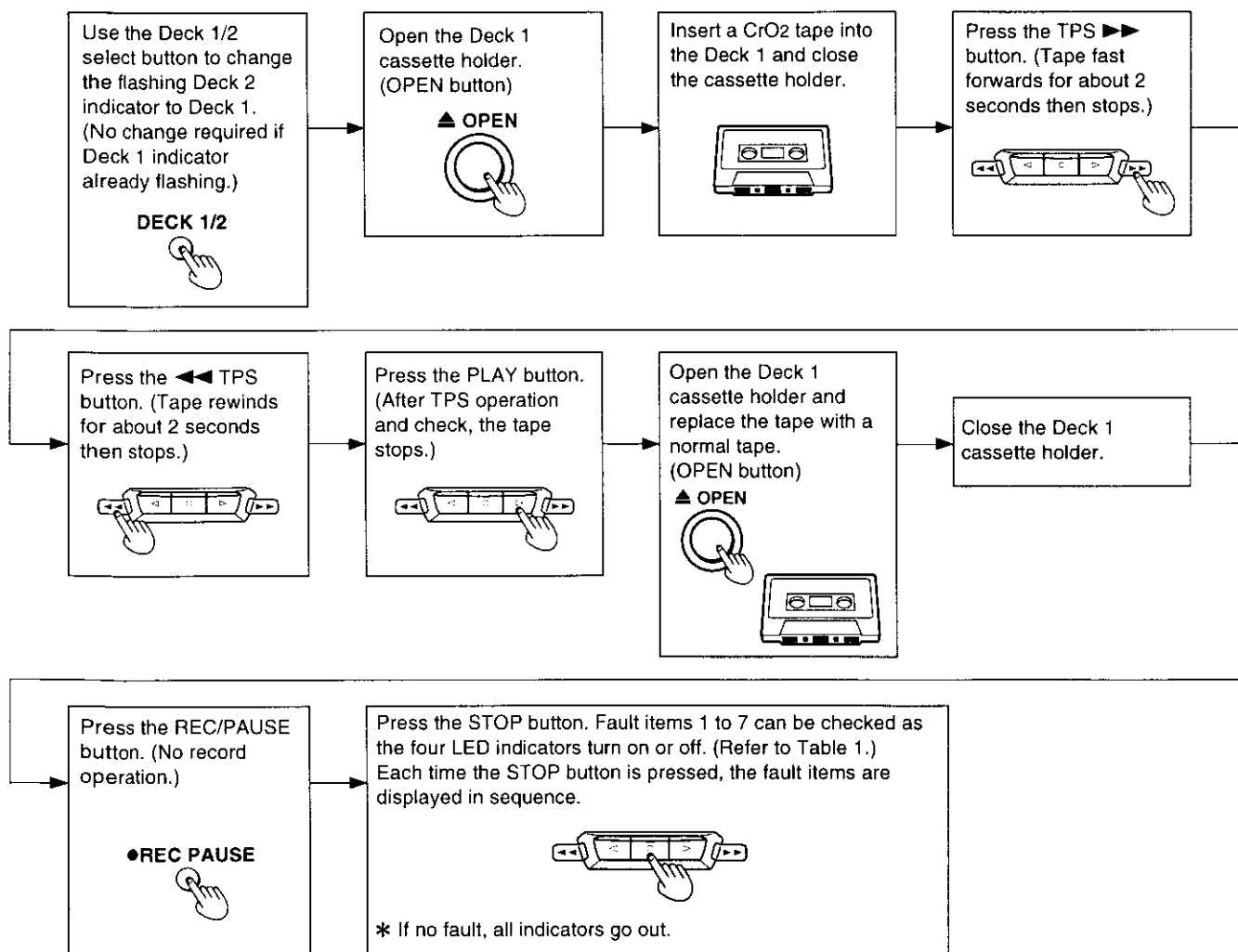


Table 1: Service Mode Diagnostic Items

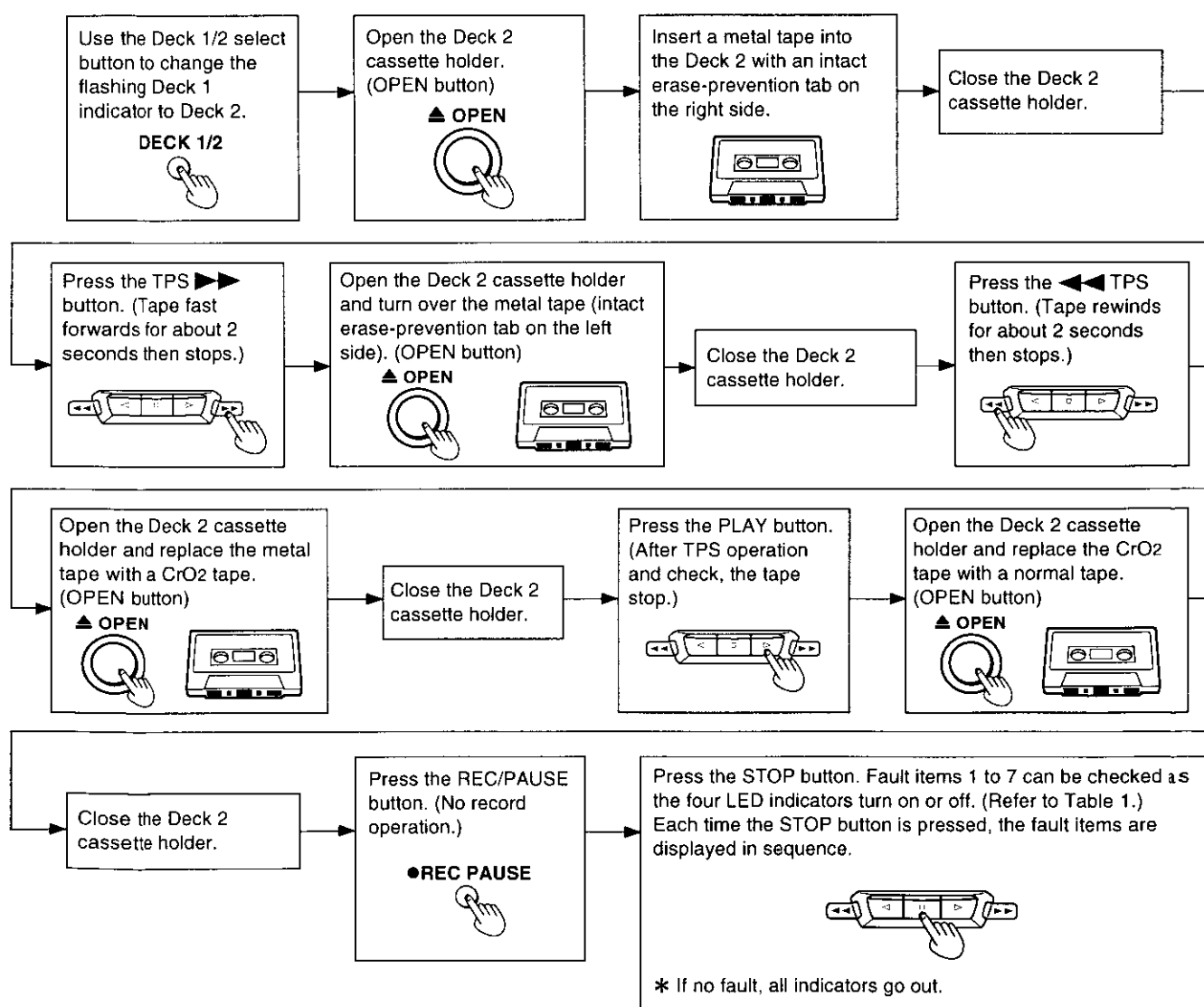
No.	LED indicator and illumination status (on/off)				Fault location
	◀	DECK 1	DECK 2	▶	
1	—	—	●	—	MODE detect switch
2	—	●	—	—	REC prevention switch
3	—	●	●	—	Half detect switch
4	—	●	—	●	CrO ₂ tape detect switch
5	—	●	●	●	Metal tape detect switch
6	●	—	—	—	Reel pulse detect system (Hall IC, etc.)
7	●	—	●	—	TPS operation

Notes:

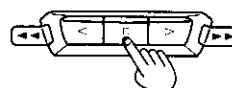
“●”: ON

“—”: OFF

* If no fault, all indicators go out.

• Deck 2 Mechanism Check**• Exiting Self-Check Mode**

1. Press the STOP button for more than 6 seconds. (Diagnostic contents stored in memory for both Deck 1 and 2 are erased.)
2. Remove the cassette tape from the cassette holder.
3. Turn off the unit.



■ Schematic Diagram

	Page
A MAIN CIRCUIT	17~20
B MECHANISM CIRCUIT (DECK 1)	19
C MECHANISM CIRCUIT (DECK 2)	19
D POWER SUPPLY CIRCUIT	20
E OPERATION CIRCUIT	21

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

Notes:

- **S900** : Stop switch (■)
 - **S901** : DECK 2 cassette holder open switch (▲OPEN)
 - **S902** : One-touch tape edit switch (TAPE EDIT/HIGH)
 - **S903** : One-touch tape edit switch (TAPE EDIT/NOR)
 - **S904** : Record pause switch (●REC PAUSE)
 - **S905** : Dolby noise reduction switch (DOLBY NR)
 - **S906** : Fast forward/tape program sensor switch (▶▶)
 - **S907** : Forward side playback switch (▶)
 - **S909** : Reverse side playback switch (◀)
 - **S910** : Rewind/tape program sensor switch (◀◀)
 - **S911** : Reverse mode select switch (REV MODE)
 - **S912** : DECK 1/DECK 2 select switch (DECK 1/2)
 - **S913** : Counter display switch (COUNTER DISPLAY)
 - **S914** : Counter reset switch (COUNTER RESET)
 - **S915** : DECK 1 cassette holder open switch (▲OPEN)
 - **S951** : DECK 1 mode detect switch
 - **S952** : DECK 1 half detect switch
 - **S953** : DECK 1 CrO₂ tape detect switch
 - **S971** : DECK 2 mode detect switch
 - **S972** : DECK 2 half detect switch
 - **S973** : DECK 2 CrO₂ tape detect switch
 - **S974** : DECK 2 reverse side record prevention tab detect switch
 - **S975** : DECK 2 forward side record prevention tab detect switch
 - **S976** : DECK 2 METAL tape detect switch
 - **VR101** : DECK 1 Playback gain adjustment VR (R-ch)
 - **VR102** : DECK 2 Playback gain adjustment VR (L-ch)
 - **VR103** : DECK 2 Playback gain adjustment VR (R-ch)
 - **VR104** : DECK 1 Playback gain adjustment VR (L-ch)
 - **VR801** : DECK 1 tape speed adjustment VR (normal)
 - **VR802** : DECK 2 tape speed adjustment VR (high)
 - **VR803** : DECK 2 tape speed adjustment VR (normal)
- Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.

No mark : Playback () : Recording

• Important safety notice:

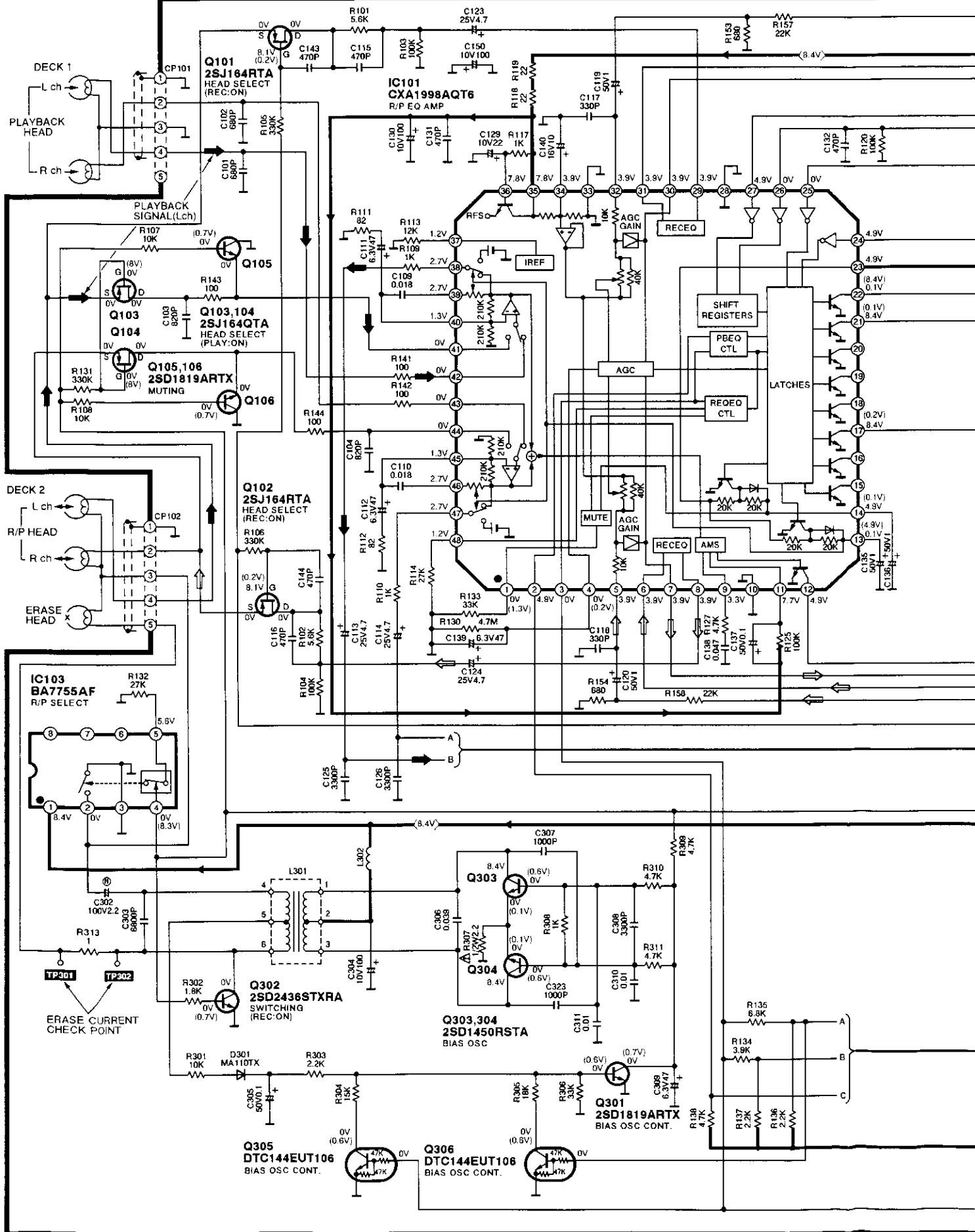
Components identified by △ mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

• Caution!

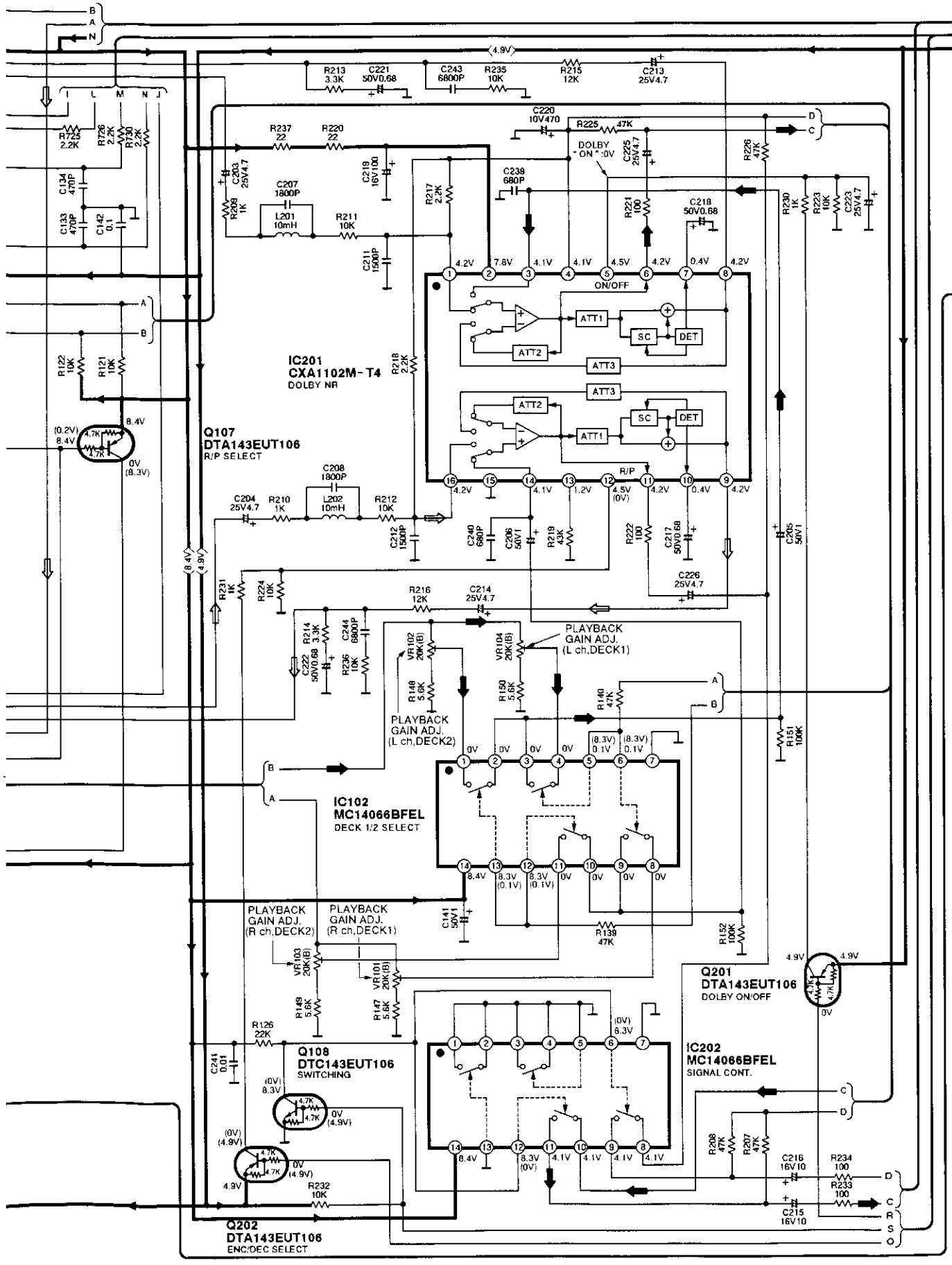
IC and LSI are sensitive to static electricity.
Secondary trouble can be prevented by taking care during repair.
Cover the parts boxes made of plastics with aluminum foil.
Ground the soldering iron.
Put a conductive mat on the work table.
Do not touch the legs of IC or LSI with the fingers directly.

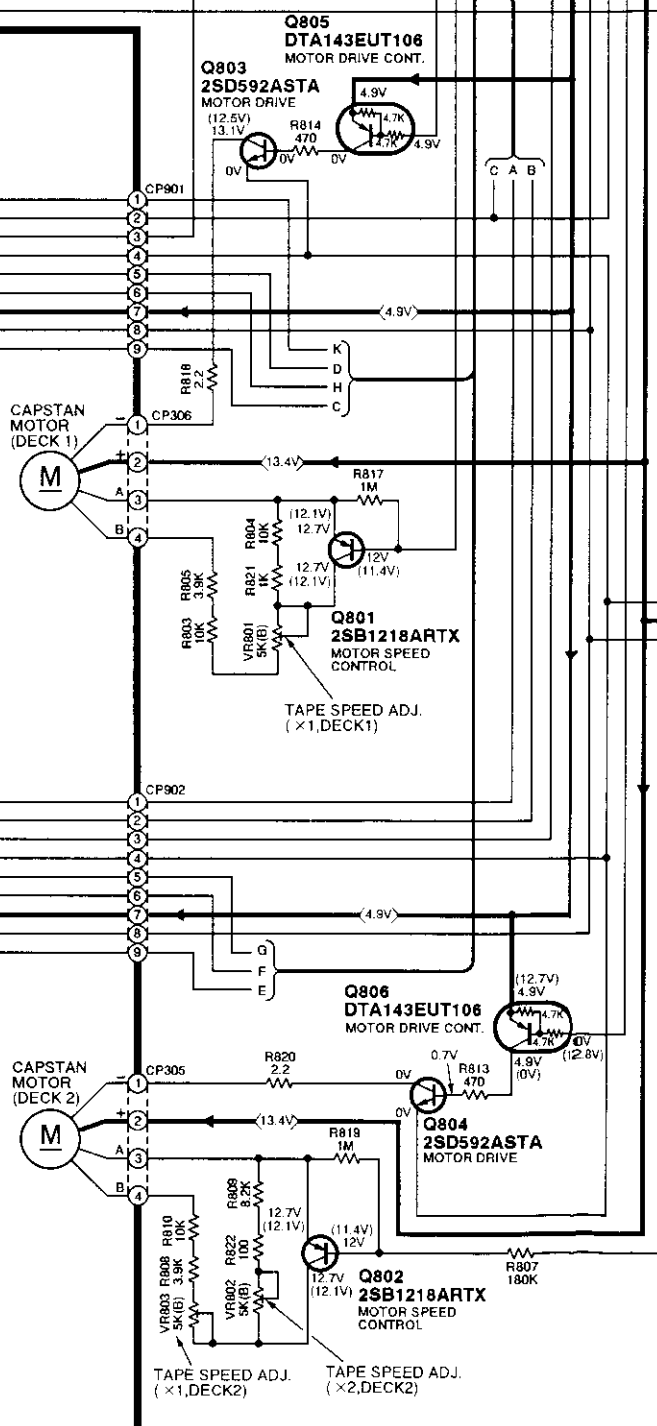
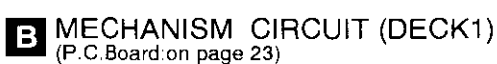
• Voltage and signal line

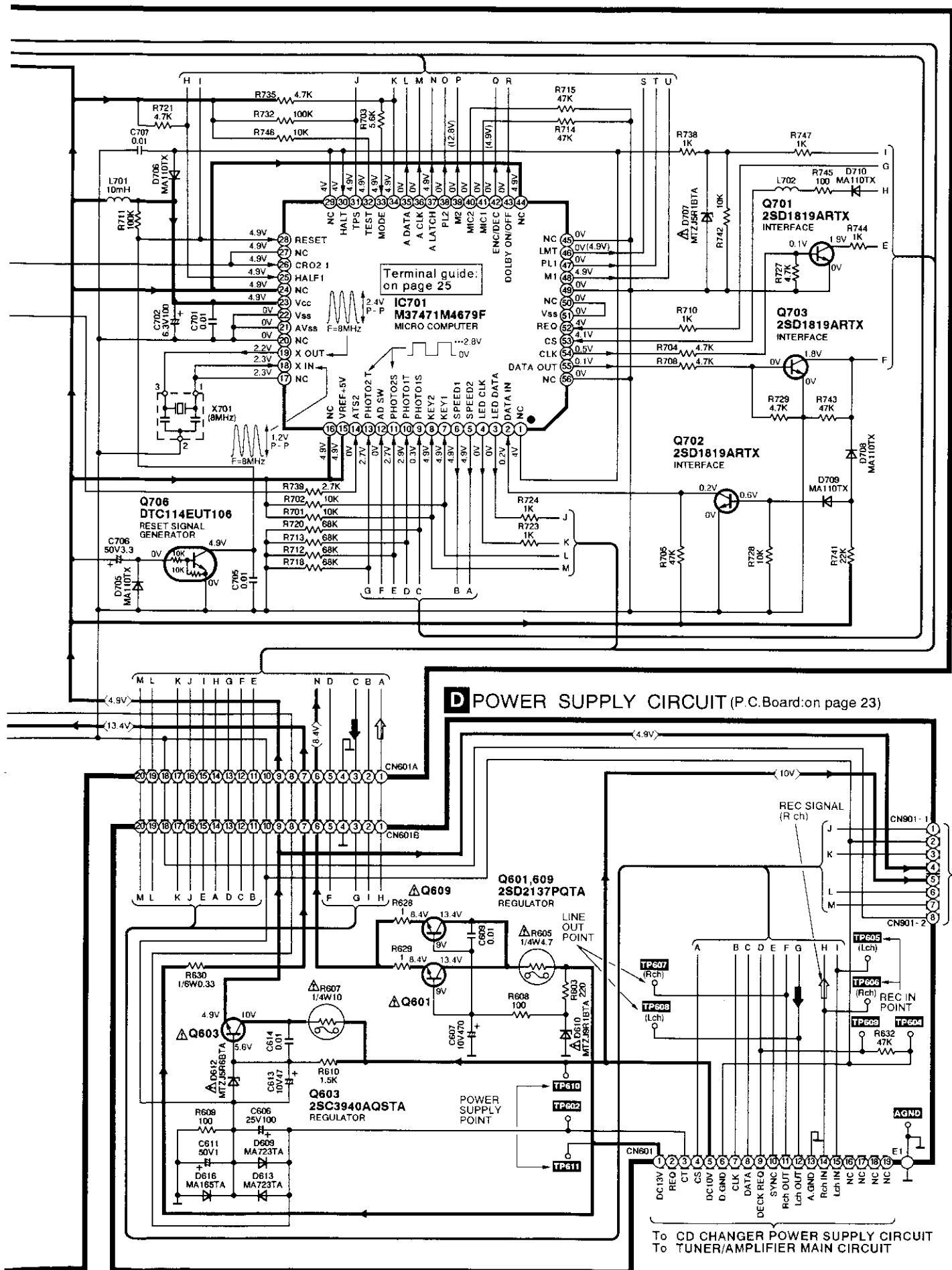
 : Positive voltage line
  : Playback signal Line
  : Recording signal Line

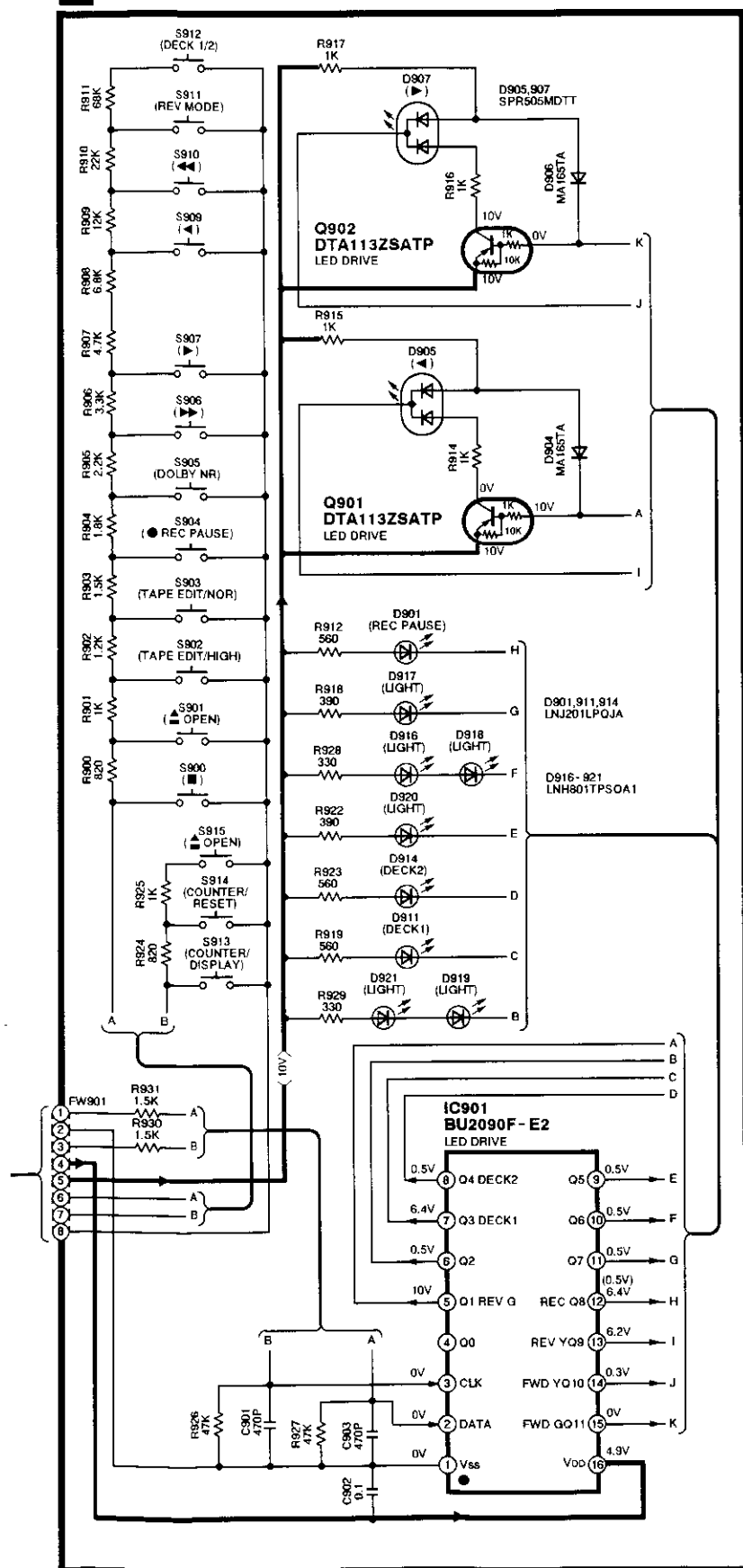
A MAIN CIRCUIT (P.C.Board: on page 22)

 : Positive voltage line
  : Playback signal Line
  : Recording signal Line







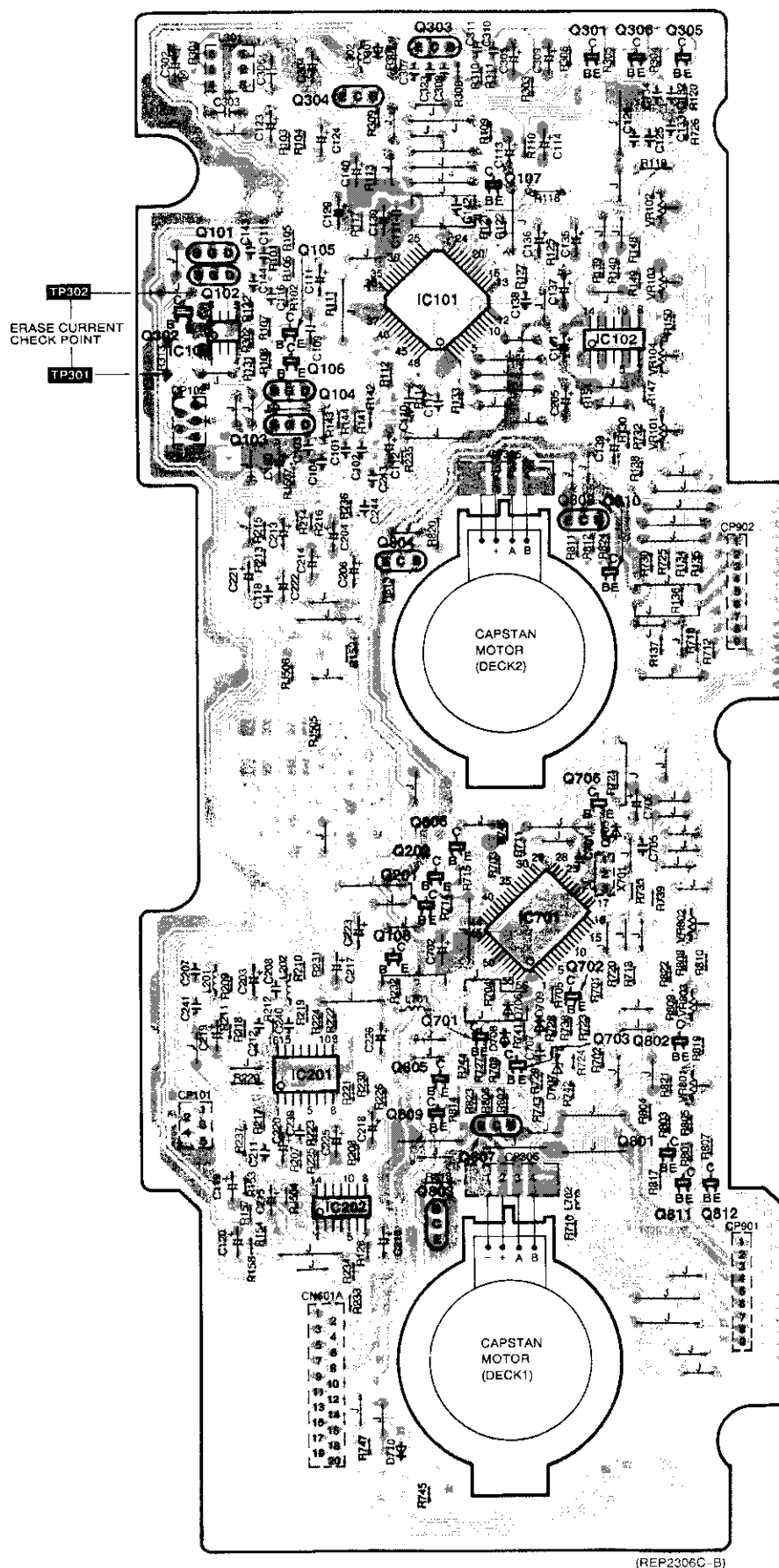
E OPERATION CIRCUIT (P.C.Board: on page 23)


-  : Positive voltage line
 : Playback signal Line
 : Recording signal Line

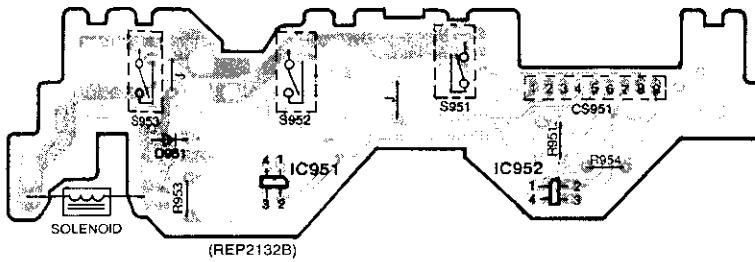
■ Printed Circuit Board Diagram

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

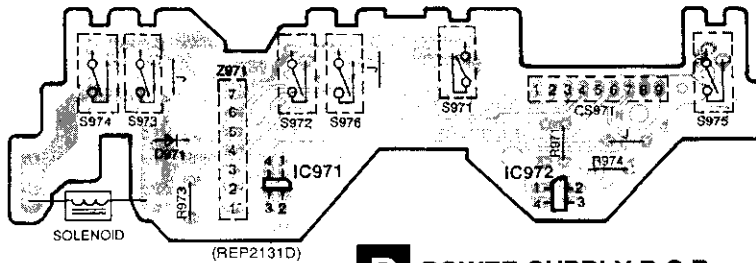
A MAIN P.C.B.



B MECHANISM P.C.B. (DECK1)

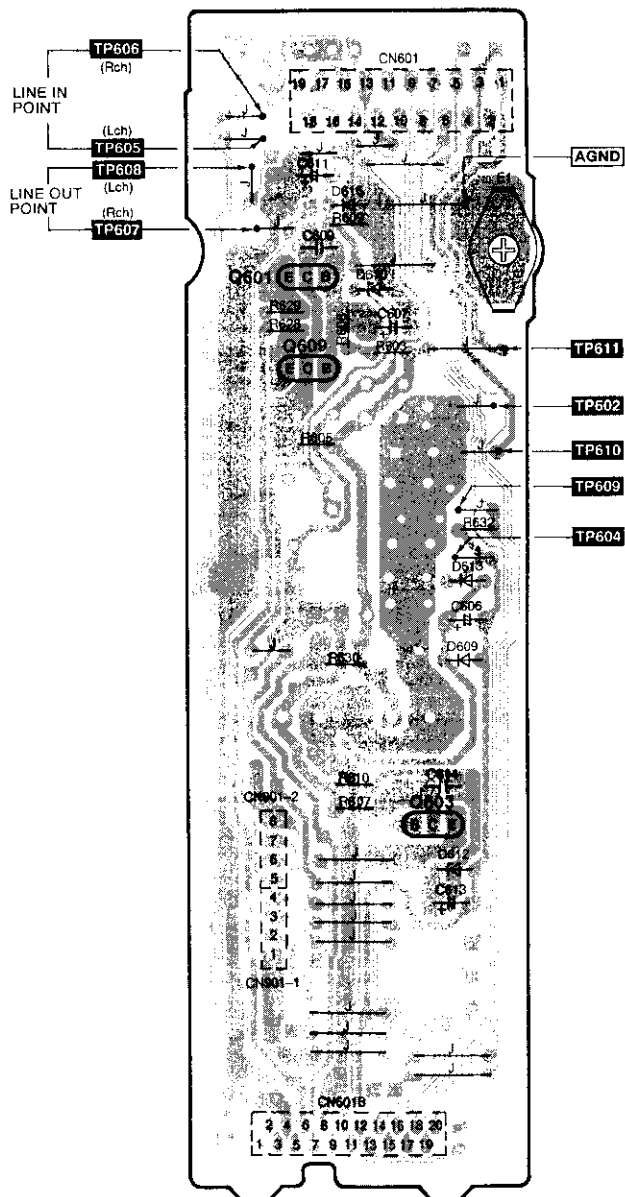


C MECHANISM P.C.B. (DECK2)

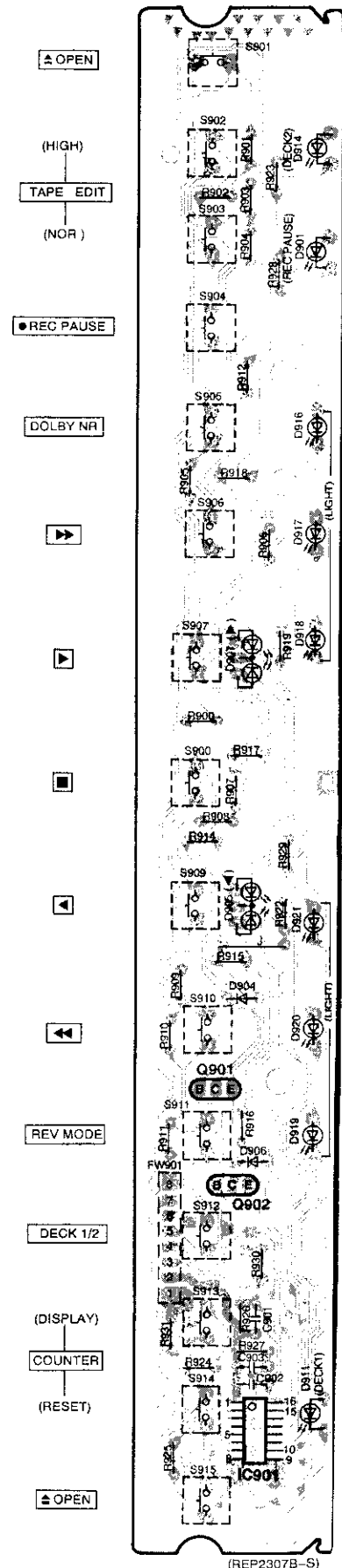


D POWER SUPPLY P.C.B.

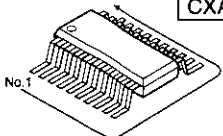
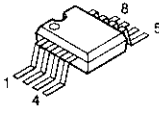
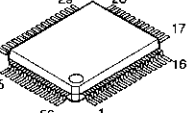
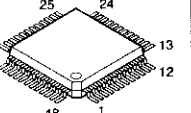
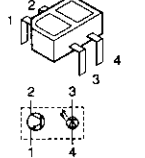
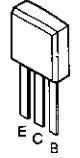
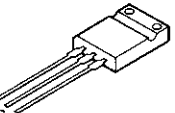
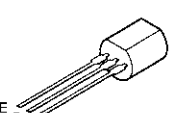
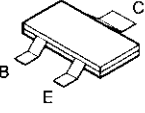
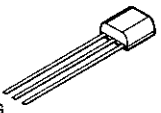
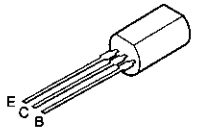
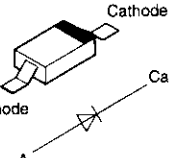
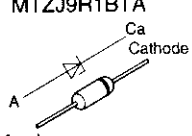
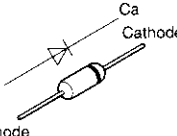
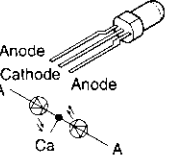
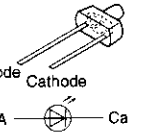
TO CD CHANGER POWER SUPPLY P.C.B.
TO TUNER/AMPLIFIER MAIN P.C.B.



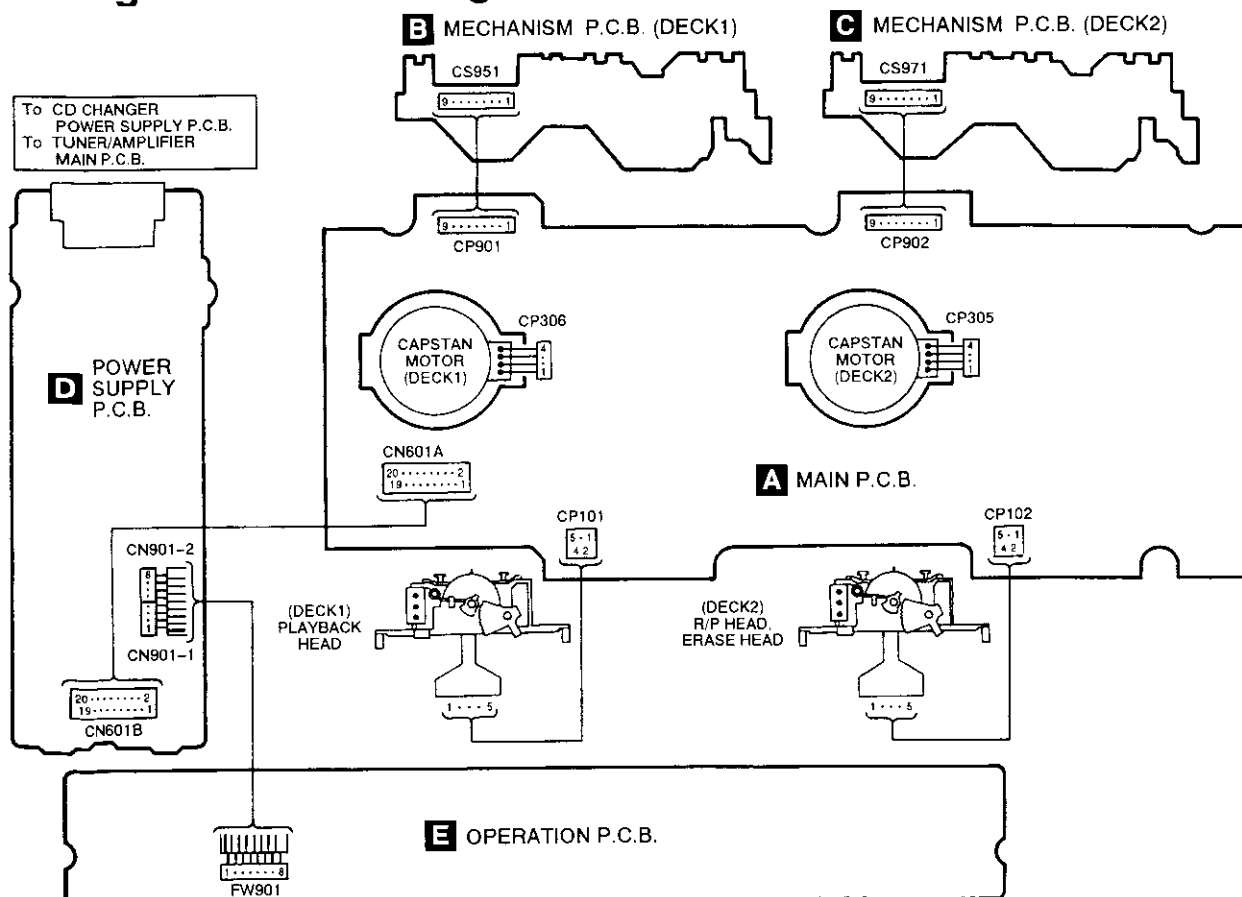
E OPERATION P.C.B.



■ Type Illustration of IC's, Transistors and Diodes

 <table><tr><td>MC14066BFEL</td><td>14PIN</td></tr><tr><td>BU2090F-E2</td><td>16PIN</td></tr><tr><td>CXA1102M-T4</td><td>16PIN</td></tr></table>	MC14066BFEL	14PIN	BU2090F-E2	16PIN	CXA1102M-T4	16PIN				
MC14066BFEL	14PIN									
BU2090F-E2	16PIN									
CXA1102M-T4	16PIN									
										
										

■ Wiring Connection Diagram



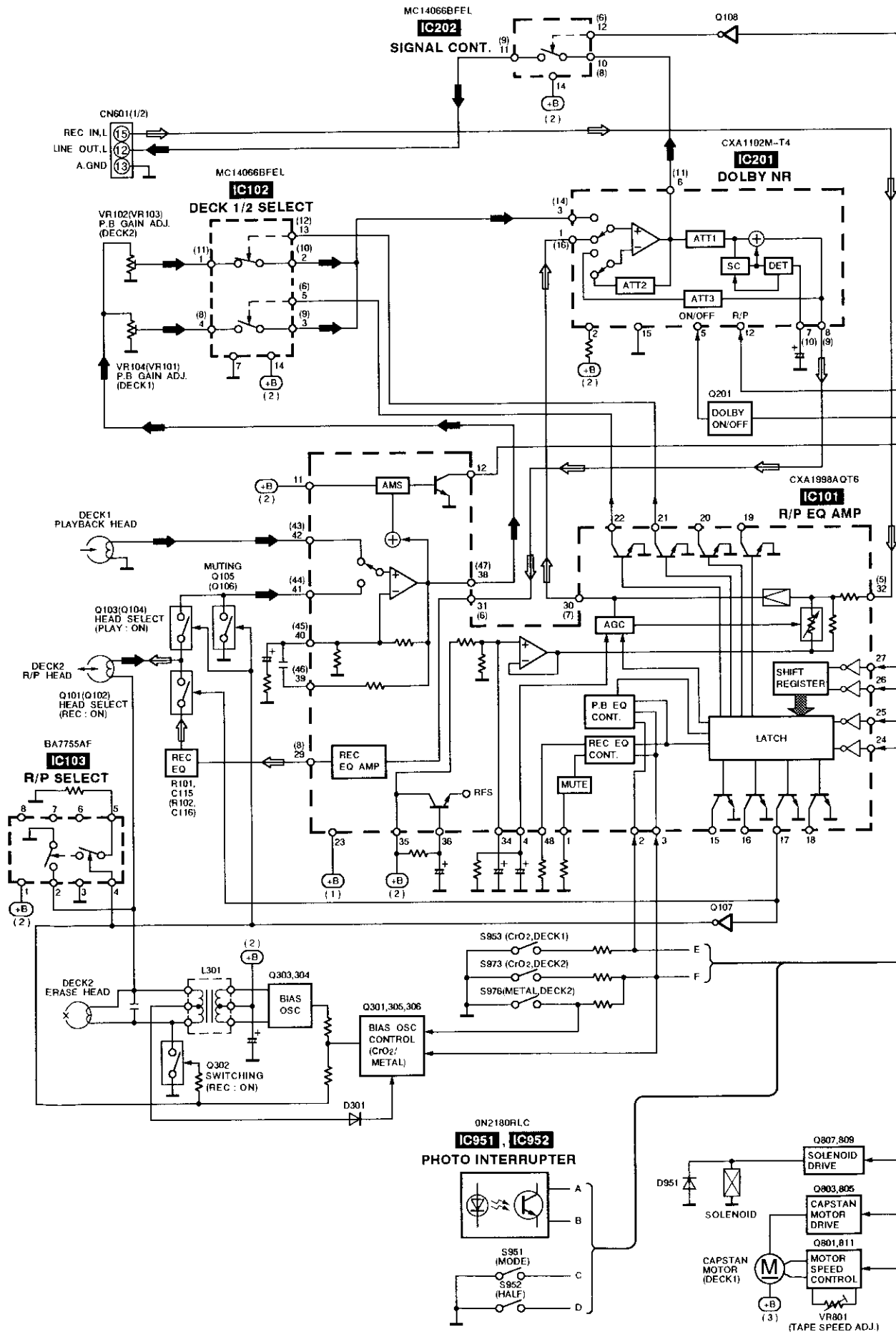
■ Terminal Function of IC's

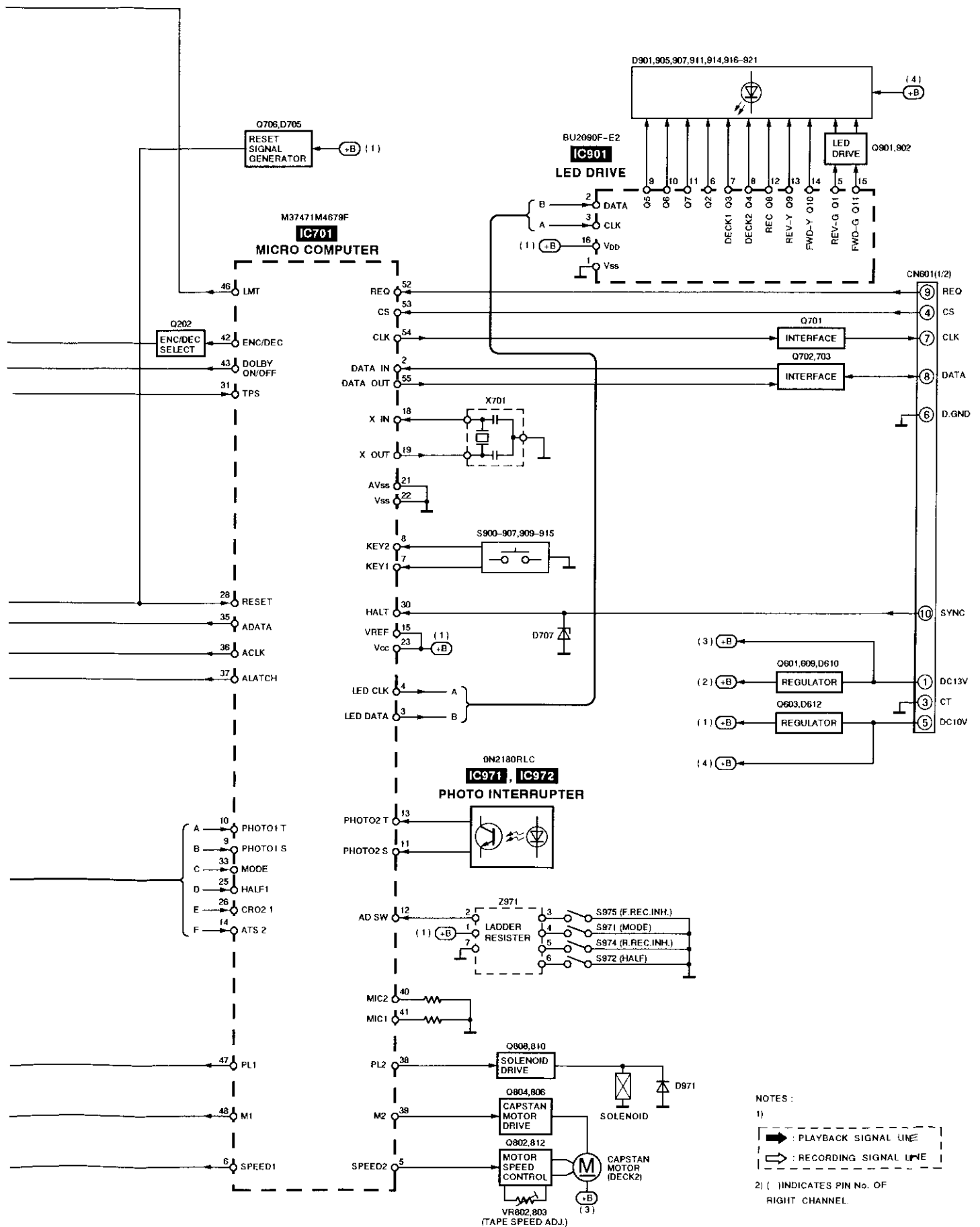
● IC701 (M37471M4679F)

Pin No.	Terminal Name	I/O	Function
1	NC	—	Not used
2	DATA IN	I	Serial data input
3	LED DATA	O	Serial data signal output for LED drive IC
4	LED CLK	O	Serial clock signal output for LED drive IC
5	SPEED2	O	DECK 2 motor speed control signal output
6	SPEED1	O	DECK 1 motor speed control signal output
7, 8	KEY1, 2	I	Operation switch signal input
9	PHOTO1S	I	DECK 1 supply side reel pulse input
10	PHOTO1T	I	DECK 1 take-up side reel pulse input
11	PHOTO2S	I	DECK 2 supply side reel pulse input
12	AD SW	I	DECK 2 mechanism switch signal input (Half, Mode, F. REC INH., R. REC INH.)
13	PHOTO2T	I	DECK 2 take-up side reel pulse input
14	ATS2	I	DECK 2 mechanism switch signal input (NORMAL/CrO ₂ /METAL)
15	VREF	—	Reference voltage input terminal for A/D converter (+5 V)
16, 17	NC	—	Not used
18	XIN	I	Clock signal input (8 MHz)
19	XOUT	O	Clock signal output (8 MHz)
20	NC	—	Not used
21	AVSS	—	Connect to GND
22	VSS	—	GND terminal
23	VCC	—	Power supply (+5 V)
24	NC	—	Not used
25	HALF1	I	DECK 1 mechanism switch signal input (Half)
26	CRO21	I	DECK 1 mechanism switch signal input (NORMAL/CrO ₂)
27	NC	—	Not used
28	RESET	I	Reset signal input

Pin No.	Terminal Name	I/O	Function
29	NC	I	Not used
30	HALT	I	AC power source detect signal input
31	TPS	I	TPS signal input
32	TEST	I	Test mode select signal input
33	MODE	I	DECK 1 mechanism switch signal input (Mode)
34	—	—	Not used
35	ADATA	O	Serial data signal output for IC101
36	ACLK	O	Serial clock signal output for IC101
37	ALATCH	O	Serial latch signal output for IC101
38	PL2	O	DECK 2 solenoid drive signal output
39	M2	O	DECK 2 motor drive signal output
40, 41	MIC2, 1	O	Not used
42	ENC/DEC	O	DOLBY NR record/play mode select signal output
43	DOLBY ON/OFF	O	DOLBY NR ON/OFF control signal output
44, 45	NC	—	Not used
46	LMT	O	Muting control signal output
47	PL1	O	DECK 1 solenoid drive signal output
48	M1	O	DECK 1 motor drive signal output
49	—	—	Not used
50	NC	—	Not used
51	VSS	—	GND terminal
52	REQ	I	Serial communication request signal input
53	CS	I	Serial communication complete signal input
54	CLK	O	Serial communication clock signal output
55	DATA OUT	O	Serial communication data signal output
56	NC	—	Not used

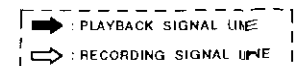
Block Diagram





NOTES:

1)



2) () INDICATES PIN No. OF RIGHT CHANNEL.

■ Measurements and Adjustments

Measurement Condition

- Dolby NR switch: OFF
- Make sure heads are clean.
- Make sure capstan and pressure roller are clean.
- Judgeable room temperature: $20 \pm 5^{\circ}\text{C}$ ($68 \pm 9^{\circ}\text{F}$)

Measuring instrument

- DC Power Supply
- AF Oscillator

Measurement Condition

- Head azimuth adjustment (8 kHz, -20 dB): QZZCFM
- Tape speed adjustment (3 kHz, -10 dB): QZZCWAT
- Playback gain adjustment (315 Hz, 0 dB): QZZCFM
- Recording/playback frequency response adjustment:
QZZCFM (315 Hz/0 dB, 315Hz/-20dB, 12.5 kHz-63 Hz/-20 dB)
QZZCRA (Normal blank tape)
QZZCRX (CrO2 blank tape)
QZZCRZ (Metal blank tape)

Adjustment Points and Test Points

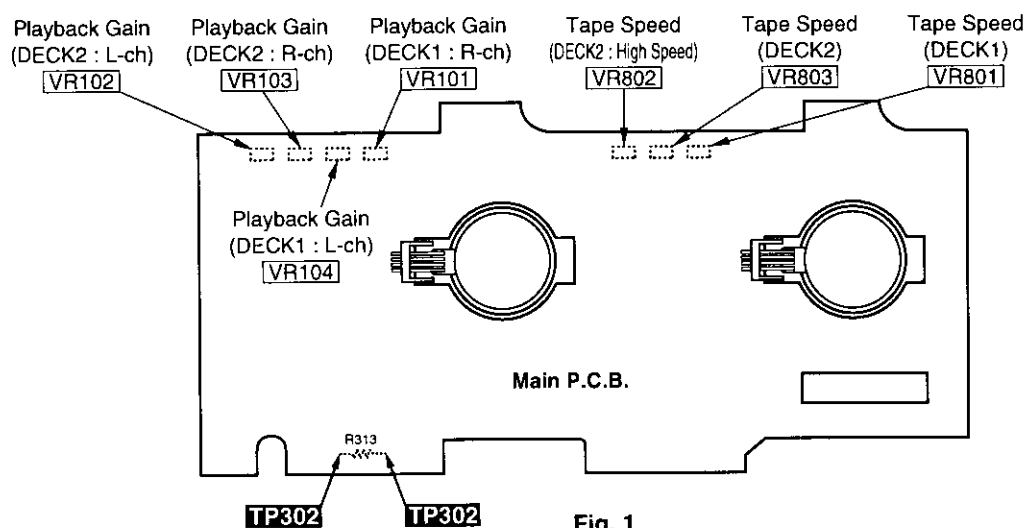


Fig. 1

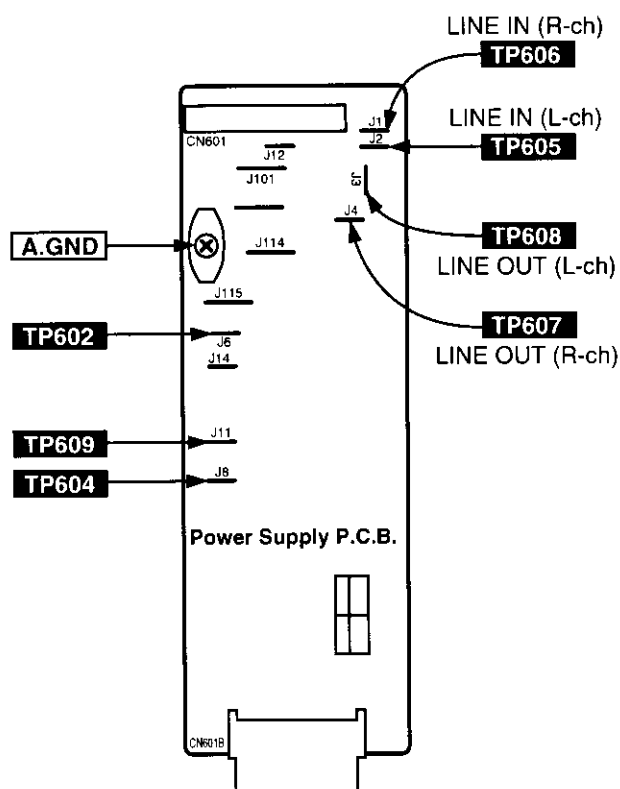


Fig. 2

HEAD AZIMUTH ADJUSTMENT (DECK 1/2)

1. Connect the measuring instrument as shown in Fig. 3.
2. Replace azimuth screws for both forward and reverse direction after removing the screw-locking bond left on the head base.
Fine adjustment of azimuth can not be performed with remaining the bond on the head base.
(Supply part No. of azimuth adjusting screw: **RHD17015**)
3. Playback the azimuth adjustment portion (8 kHz, -20 dB) of test tape (QZZCFM). Adjust the azimuth adjusting screw until the outputs of the L/R-ch are maximized. (Refer to Fig. 4.)
Make sure that the difference in the peak level between the left and right channels does not exceed 0.5 dB.
4. Perform the same adjustment in reverse playback mode.

Check of the level difference forward and reverse directions

5. Playback the playback gain adjustment portion (315 Hz, 0 dB) of test tape (QZZCFM). Check if level difference between forward and reverse direction is within 1.5 dB.
6. After the adjustment, apply screwlock to the azimuth adjusting screw.

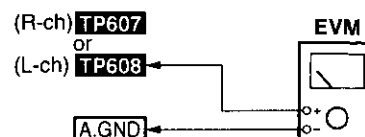


Fig. 3

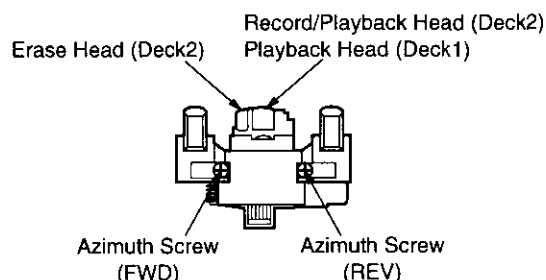


Fig. 4

TAPE SPEED ADJUSTMENT (DECK 1/2)

Note: When connecting the unit to other system components for testing, short the section between the test points **TP609** and **TP604** and turn on the entire system. (The unit is set to the TEST mode, and either the DECK1 or DECK2 indicators will blink.)

Normal speed (Standard value: 3000 ± 45 Hz)

1. Playback the middle portion of the test tape (QZZCWAT).
2. Adjust Deck 1 = **VR801** and Deck 2 = **VR803** for the output value shown below. (Refer to Fig. 1)

Adjustment target: 3000 ± 15 Hz (NORMAL speed)

Standard value: 3000 ± 45 Hz (NORMAL speed)

High speed [Set the unit to forward (FWD) mode.]

3. Playback the middle portion on the test tape (QZZCWAT).
4. Press the one touch tape edit (High) button.
This will set the high speed mode.
5. At that time, check if the output from DECK 1 is within the standard value.

Standard value: 5000 ± 600 Hz (HIGH speed)

6. Adjust **VR802** so that the output frequency of DECK 2 is within ± 30 Hz for the value of the output frequency of DECK 1. (Refer to Fig. 1)

Note: When connecting the unit to other system components, disconnect the short between the test points **TP609** and **TP604**.

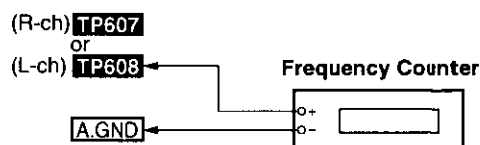


Fig. 5

PLAYBACK GAIN ADJUSTMENT (DECK1/2)

1. Find the start of the 315 Hz/0 dB section of the test tape (QZZCFM), insert the tape into Deck1 and 2, and play it back (FWD)
3. Adjust Deck 2 : **VR102** (L-ch) [**VR103** (R-ch)] and Deck 1 : **VR104** (L-ch) [**VR101** (R-ch)] so that the output is within the standard value. (Refer to Fig. 1)

Standard value : 280 mV ± 15 mV

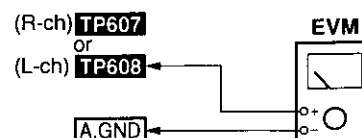


Fig. 6

ERASE CURRENT CONFIRMATION (DECK2)

1. Insert the blank tape into Deck2, and press the REC PAUSE button.
3. Check if the output at this time between the erase current confirmation point **TP301** and **TP302** (the output on both edged of R313) is within the standard value. (Refer to Fig. 7.)

Standard value	EVM reading
Normal tape : 85 ± 25 mA	(85 ± 25 mV)
CrO2 tape : 150 ± 25 mA	(150 ± 25 mV)
Metal tape : 185 ± 25 mA	(185 ± 25 mV)

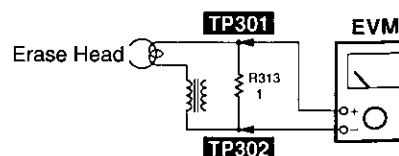


Fig. 7

Note: The test tape is not required when confirming the erase current.

Playback frequency response check (DECK 1/2)

Playback the 315 Hz/-20 dB and 12.5 kHz to 63 Hz/-20 dB sections of the test tape (QZZCFM) and then, using the 315 Hz/-20 dB playback output as a reference (0 dB), confirm that the playback frequency response is within the range shown in Fig. 9.

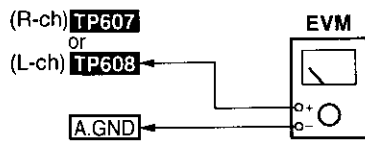


Fig. 8

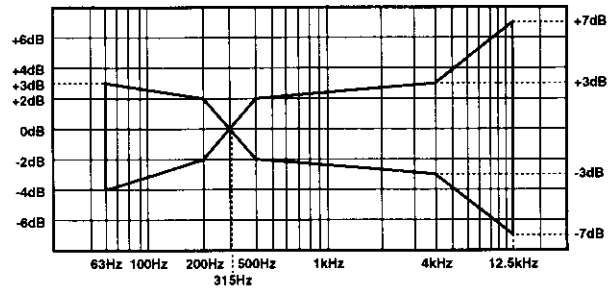


Fig. 9

Recording/playback frequency response and gain check (DECK 2)**Normal tape check**

1. Insert a Normal-type blank tape (QZZCRA) into Deck 2.
2. Record signals at 50 Hz, 100 Hz, 200 Hz, 500 Hz, 1 kHz, 2 kHz, 10 kHz and 12.5 kHz (28 mV).
3. Set the playback frequency of the recorded signals at 1 kHz as the reference response (0 dB).
4. Playback the recorded signals to confirm that the output is within the range of the overall frequency response shown in Fig. 11.

CrO2/Metal tape check

5. Repeat steps 2 to 4 for each tape and confirm that the output for each is within the range of the overall frequency response shown in Fig. 12.

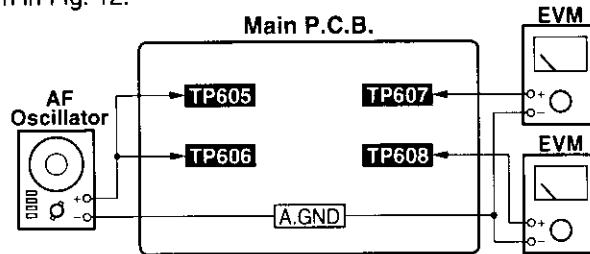


Fig. 10

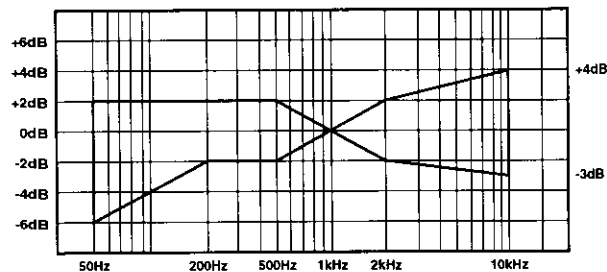
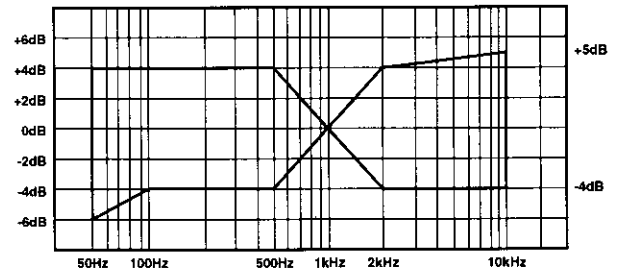
Normal Tape Overall frequency response chart**(Dolby NR OFF)****(Dolby NR ON)**

Fig. 11

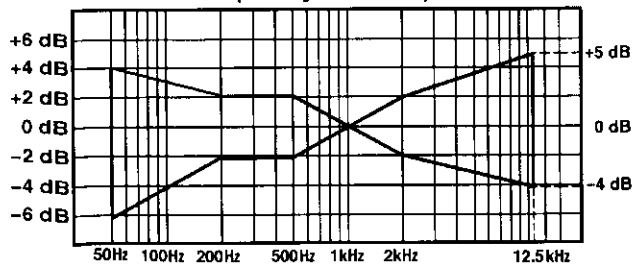
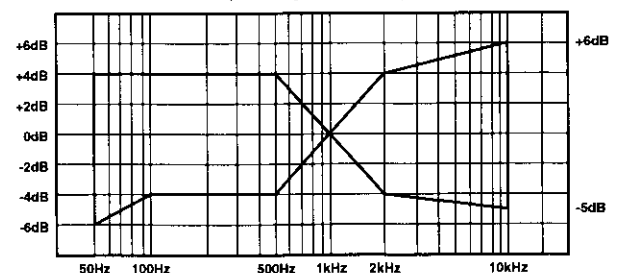
CrO2 and Metal Tape Overall frequency response chart**(Dolby NR OFF)****(Dolby NR ON)**

Fig. 12

Replacement Parts List

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.

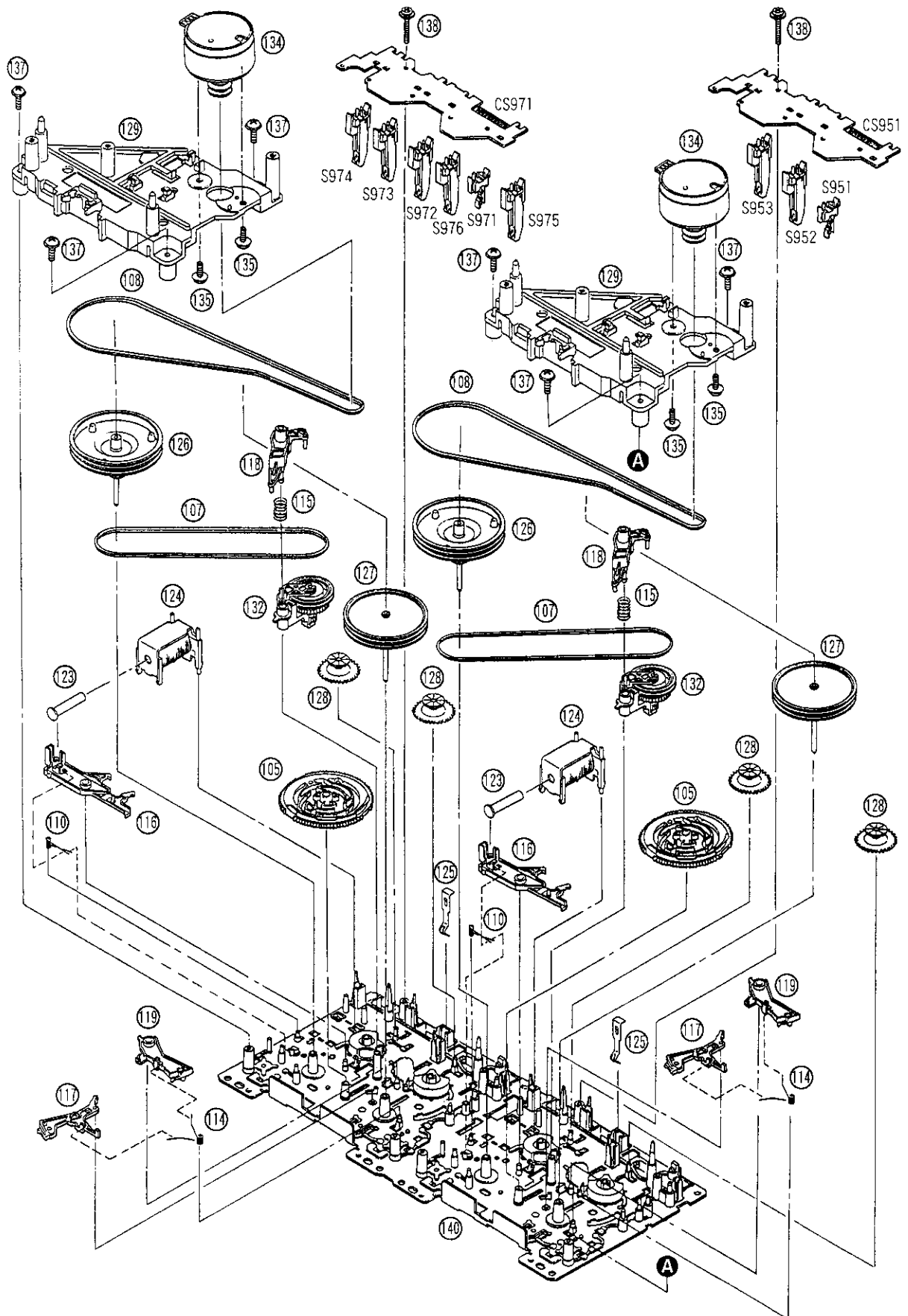
*All parts are supplied by MESA.

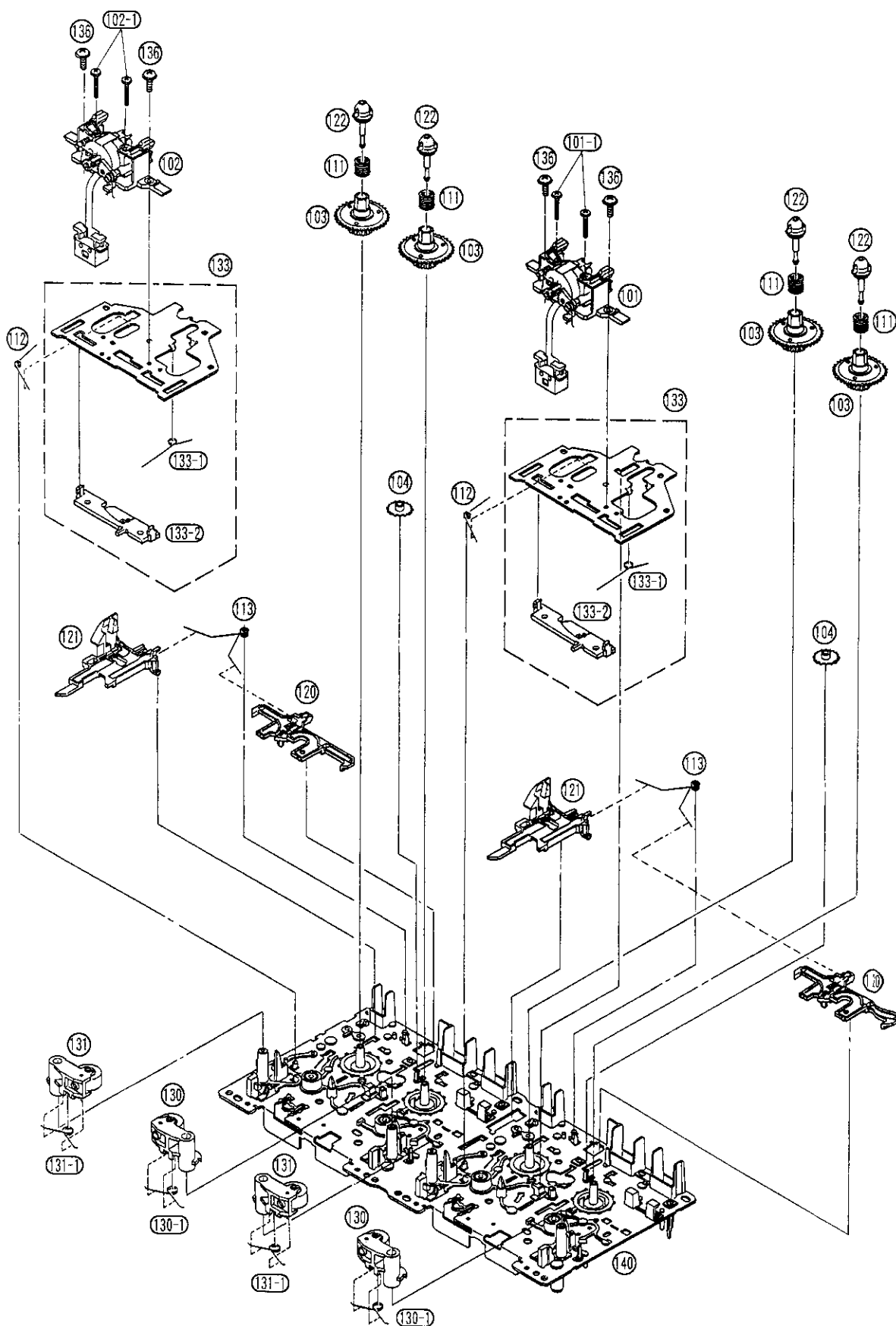
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1	RKM0290-1K	CABINET	1	(K)	135	RHD26022	SCREW	2	
1	RKM0290-H	CABINET	1	(H)	136	XTW2+5L	SCREW	4	
2	RHD30007-K1	SCREW	4		137	XTW26+10S	SCREW	6	
3	XTBS3+10JF21	SCREW	1		138	XYC2+JF17	SCREW	2	
4	REX0851	WIRE ASS'Y	1		140	RFKJSCH770EK	MAIN CHASSIS ASS'Y	1	
5	XTBS3+8JF21	SCREW	1		C101, 02	ECUV1H681KBN	50V 680P	2	
6	RWD0432	HOLDER	1		C103, 04	ECUV1H821KBN	50V 820P	2	
7	REZ0886	WIRE ASS'Y (8P)	1		C109, 10	ECQB1H183JF3	50V 0.018U	2	
8	RMR1008-Q	LED HOLDER	2		C111, 12	ECEA0JKA470B	6.3V 47U	2	
9	RFKGEH600GH	FRONT PANEL ASS'Y	1	(H)	C113, 14	ECEA1EKA4R7B	25V 4.7U	2	
9	RFKGEH600GK	FRONT PANEL ASS'Y	1	(K)	C115, 16	ECUV1H471KBN	50V 470P	2	
10	RFKLEH600GB	CASSETTE HOLDER (DECK1)	1		C117, 18	ECUV1H331KBN	50V 330P	2	
10-1	RUS7572A	SPRING	2		C119, 20	ECEA1HKA010B	50V 1U	2	
10-2	RDG0129-1	GEAR	2		C123, 24	ECEA1EKA4R7B	25V 4.7U	2	
11	RFKLACH430GB	CASSETTE HOLDER (DECK2)	1		C125, 26	ECUV1H332KBN	50V 3300P	2	
11-1	RUS7572A	SPRING	2		C129	ECEA1EKA220B	10V 22U	1	
11-2	RDG0129-1	GEAR	2		C130	RCE1AKA101BG	10V 100U	1	
12	SHG1654	RUBBER	3		C131-34	ECUV1H471KBN	50V 470P	4	
13	RGB0022-A	PANASONIC BADGE	1		C135, 36	ECEA1HKA010B	50V 1U	2	
14	XTB3+10JFZ	SCREW	5		C137	ECEA1HKA0R1B	50V 0.1U	1	
15	RGL0349-Q	LENS1	1		C138	ECUV1E473KBN	25V 0.047U	1	
16	RGL0350-Q	LENS2	1		C139	ECEA0JKA470B	6.3V 47U	1	
17	RJR0113	CONNECTOR (CP305/306)	2		C140	RCE1CKA100BG	16V 10U	1	
18	RKF0507-1K	CASSETTE PANEL (DECK2)	1	(K)	C141	ECEA1HKA010B	50V 1U	1	
18	RKF0507-H	CASSETTE PANEL (DECK2)	1	(H)	C142	ECUV1E1042FN	25V 0.1U	1	
19	RKWD489A-Q	WINDOW 1	1		C143, 44	ECUV1H471KBN	50V 470P	2	
20	RKWD490A-Q	WINDOW 2	1		C150	RCE1AKA101BG	10V 100U	1	
21	RMB0474	SPRING	2		C203, 04	ECEA1EKA4R7B	25V 4.7U	2	
22	RWQ0577A-2	FRAME	1		C205, 06	ECEA1HKA010B	50V 1U	2	
23	RMR0909-X	P. C. B. SUPPORT	1		C207, 08	ECUV1H182KBN	50V 1800P	2	
24	RSC0453	SHIELD PLATE 1	1		C211, 12	ECUV1H152KBN	50V 1500P	2	
25	RSC0454	SHIELD PLATE 2	1		C213, 14	ECEA1EKA4R7B	25V 4.7U	2	
26	XTBS26+8J	SCREW	7		C215, 16	RCE1CKA100BG	16V 10U	2	
27	RKF0506A-H	CASSETTE PANEL (DECK1)	1	(H)	C217, 18	ECEA1HKA688B	50V 0.68U	2	
27	RKF0506A-1K	CASSETTE PANEL (DECK1)	1	(K)	C219	ECEA1CKA101B	16V 100U	1	
101	RED0037	HEAD BLOCK (R/P)	1		C220	RCE1ARC471BG	10V 470U	1	
101-1	RHD17015	SCREW	1		C221, 22	ECEA1HKA688B	50V 0.68U	2	
102	RED0038	HEAD BLOCK (P. B)	1		C223	ECEA1EKA4R7B	25V 4.7U	1	
102-1	RHD17015	SCREW	1		C225, 26	ECEA1EKA4R7B	25V 4.7U	2	
103	RDG0300	REEL TABLE ASS'Y	4		C239, 40	ECUV1H681KBN	50V 680P	2	
104	RDG0301	GEAR	2		C241	ECUV1H103KBN	50V 0.01U	1	
105	RDK0026	GEAR	2		C243, 44	ECUV1H682KBN	50V 6800P	2	
107	RDV0033-1	BELT 1	2		C302	ECEA2AN2R2SB	100V 2.2U	1	
108	RDV0034	BELT 2	2		C303	ECQP2E682JZT	250V 6800P	1	
110	RUI1472A	SPRING	2		C304	RCE1AKA101BG	10V 100U	1	
111	RMB0400	SPRING	4		C305	ECEA1HKA0R1B	50V 0.1U	1	
112	RMB0403	SPRING	2		C306	ECQB1H393JF3	50V 0.039U	1	
113	RMB0404	SPRING	2		C307	ECUV1H102KBN	50V 1000P	1	
114	RMB0406	SPRING	2		C308	ECUV1H332KBN	50V 3300P	1	
115	RMB0408	SPRING	2		C309	ECEA0JKA470B	6.3V 47U	1	
116	RML0370	LEVER	2		C310, 11	ECUV1H103KBN	50V 0.01U	2	
117	RML0371	LEVER	2		C323	ECUV1H102KBN	50V 1000P	1	
118	RML0372	LEVER	2		C606	ECA1EM101B	25V 100U	1	
119	RML0374	LEVER	2		C607	ECA1AM471B	16V 470U	1	
120	RMM0131	ROD	2		C609	ECBT1E103ZF5	25V 0.01U	1	
121	RMM0133	ROD	2		C611	ECEA1HKA010B	50V 1U	1	
122	RMQ0519	REEL CAP	4		C613	RCE1AKA470BG	10V 47U	1	
123	RMS0398-1	SHAFT	2		C614	ECBT1E103ZF5	25V 0.01U	1	
124	RSJ0003	PLUNGER ASS'Y	2		C701	ECUV1H103KBN	50V 0.01U	1	
125	RUS6092C	SPRING	2		C702	ECEA0JKA101B	6.3V 100U	1	
126	RXF0049	FLYWHEEL ASS'Y	2		C705	ECUV1E1032FN	25V 0.01U	1	
127	RXF0050	FLYWHEEL ASS'Y	2		C706	RCE1HKA3R3BG	50V 3.3U	1	
128	RXG0040	GEAR	4		C707	ECUV1E1032FN	25V 0.01U	1	
129	RMK0263	SUB CHASSIS	1		C901	ECBT1H471KB5	50V 470P	1	
130	RXL0124	PINCH ROLLER ASS'Y	2		C902	ECBT1H1042F5	50V 0.1U	1	
130-1	RMB0401	SPRING	1		C903	ECBT1H471KB5	50V 470P	1	
131	RXL0125	PINCH ROLLER ASS'Y	2		CN601	RJS2A5519-1	CONNECTOR (19P)	1	
131-1	RMB0402	SPRING	1		CN601A	RJT077K20	CONNECTOR (20P)	1	
132	RXL0126	ARM GEAR	2		CN601B	RJU077K20	CONNECTOR (20P)	1	
133	RXQ0412	CHASSIS ASS'Y	2		CN901-1	RJS1A6604T1	CONNECTOR (4P)	1	
133-1	RMB0405	SPRING	1		CN901-2	RJS1A6604T1	CONNECTOR (4P)	1	
133-2	RMM0132	ROD	1		CP101, 02	RJS1A6805	CONNECTOR (5P)	2	
134	REW0055-1	MOTOR ASS'Y	1						

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
CP901.02	RJT071H09A	CONNECTOR (9P)	2		R118.19	ERDS2FJ220	1/4W 22	2	
					R120	ERJ6GEYJ104V	1/10W 100K	1	
CS951	RJU071H09W	CONNECTOR (9P)	1		R121.22	ERJ6GEYJ103V	1/10W 10K	2	
CS971	RJU071H09W	CONNECTOR (9P)	1		R125	ERJ6GEYJ104V	1/10W 100K	1	
					R126	ERJ6GEYJ223V	1/10W 22K	1	
D301	WA110TX	DIODE	1		R127	ERJ6GEYJ472V	1/10W 4.7K	1	
D609	WA723TA	DIODE	1		R130	ERJ6GEYJ475V	1/10W 4.7M	1	
△ D610	WTZJ9R1BTA	DIODE	1		R131	ERJ6GEYJ334V	1/10W 330K	1	
△ D612	WTZJ5R6BTA	DIODE	1		R132	ERJ6GEYJ273V	1/10W 27K	1	
D613	WA723TA	DIODE	1		R133	ERJ6GEYJ333V	1/10W 33K	1	
D616	WA165TA	DIODE	1		R134	ERJ6GEYJ392V	1/10W 3.9K	1	
D705.06	WA110TX	DIODE	2		R135	ERJ6GEYJ682V	1/10W 6.8K	1	
△ D707	WTZJ5R1BTA	DIODE	1		R136.37	ERJ6GEYJ222V	1/10W 2.2K	2	
D708-10	WA110TX	DIODE	3		R138	ERJ6GEYJ472V	1/10W 4.7K	1	
D901	LNJ201LPQJA	LED	1		R139.40	ERJ6GEYJ473V	1/10W 47K	2	
D904	WA165TA	DIODE	1		R141	ERJ6GEYJ101V	1/8W 100	1	
D905	SPR505MDTT	LED	1		R142	ERJ6GEYJ101Z	1/10W 100	1	
D906	WA165TA	DIODE	1		R143	ERDS2FJ101	1/4W 100	1	
D907	SPR505MDTT	LED	1		R144	ERJ6GEYJ101Z	1/10W 100	1	
D911	LNJ201LPQJA	LED	1		R147-50	ERJ6GEYJ562V	1/10W 5.6K	4	
D914	LNJ201LPQJA	LED	1		R151.52	ERJ6GEYJ104V	1/10W 100K	2	
D916-21	LNH801TPSOA1	LED	6		R153.54	ERJ6GEYJ681V	1/10W 680	2	
D951	WA165	DIODE	1		R157.58	ERJ6GEYJ223V	1/10W 22K	2	
D971	WA165	DIODE	1		R207.08	ERJ6GEYJ473V	1/10W 47K	2	
					R209.10	ERJ6GEYJ102Z	1/10W 1K	2	
E1	SNE1004-2	EARTH TERMINAL	1		R211.12	ERJ6GEYJ103V	1/10W 10K	2	
					R213.14	ERJ6GEYJ332V	1/10W 3.3K	2	
IC101	CXA1998AQT6	IC	1		R215.16	ERJ6GEYJ123V	1/10W 12K	2	
IC102	WC14066BFEL	IC	1		R217.18	ERJ6GEYJ222V	1/10W 2.2K	2	
IC103	BA7755AF	IC	1		R219	ERJ6GEYJ433V	1/10W 43K	1	
IC201	CXA1102W-T4	IC	1		R220	ERDS2FJ220	1/4W 22	1	
IC202	WC14066BFEL	IC	1		R221.22	ERJ6GEYJ101Z	1/10W 100	2	
IC701	W37471M4679F	IC	1		R223.24	ERJ6GEYJ103V	1/10W 10K	2	
IC901	BU2090F-E2	IC	1		R225.26	ERJ6GEYJ473V	1/10W 47K	2	
IC951.52	ON218ORLC	IC	2		R230.31	ERJ6GEYJ102Z	1/10W 1K	2	
IC971.72	ON218ORLC	IC	2		R232	ERJ6GEYJ103V	1/10W 10K	1	
					R233.34	ERJ6GEYJ101Z	1/10W 100	2	
L201.02	ELELN103KA	COIL	2		R235.36	ERJ6GEYJ103V	1/10W 10K	2	
L301	RL08B006-K	COIL	1		R237	ERDS2FJ220	1/4W 22	1	
L302	RLQZB101KT-D	COIL	1		R301	ERJ6GEYJ103V	1/10W 10K	1	
L701	RLQA100JT-Y	COIL	1		R302	ERJ6GEYJ182V	1/10W 1.8K	1	
L702	RLBN102V-Y	COIL	1		R303	ERJ6GEYJ222V	1/10W 2.2K	1	
					R304	ERJ6GEYJ153V	1/10W 15K	1	
Q101.02	2SJ164RTA	TRANSISTOR	2		R305	ERJ6GEYJ183V	1/10W 18K	1	
Q103.04	2SJ164QTA	TRANSISTOR	2		R306	ERJ6GEYJ333V	1/10W 33K	1	
Q105.06	2SD1819ARTX	TRANSISTOR	2		△ R307	ERDS1FJ2R2	1/2W 2.2	1	
Q107	DTA143EUT106	TRANSISTOR	1		R308	ERJ6GEYJ102Z	1/10W 1K	1	
Q108	DTA143EUT106	TRANSISTOR	1		R309-11	ERJ6GEYJ472V	1/10W 4.7K	3	
Q201.02	DTA143EUT106	TRANSISTOR	2		R313	ERDS2TJ1R0T	1/4W 1	1	
Q301	2SD1819ARTX	TRANSISTOR	1		R603	ERDS2TJ221T	1/4W 220	1	
Q302	2SD2436STXRA	TRANSISTOR	1		△ R605	ERD2FCJ4R7	1/4W 4.7	1	
Q303.04	2SD145ORSTA	TRANSISTOR	2		△ R607	ERD2FCG100	1/4W 10	1	
Q305.06	DTA144EUT106	TRANSISTOR	2		R608.09	ERDS2FJ101	1/4W 100	2	
△ Q601	2SD2137PQTA	TRANSISTOR	1		R610	ERDS2TJ152T	1/4W 1.5K	1	
△ Q603	2SC3940AQSTA	TRANSISTOR	1		R628.29	ERDS2TJ1R0T	1/4W 1	2	
△ Q609	2SD2137PQTA	TRANSISTOR	1		R630	ERQ16NKR33E	1/6W 0.33	1	
Q701-03	2SD1819ARTX	TRANSISTOR	3		R632	ERDS2TJ473T	1/4W 47K	1	
Q706	DTA114EUT106	TRANSISTOR	1		R701.02	ERJ6GEYJ103V	1/10W 10K	2	
Q801.02	2SB1218RTW	TRANSISTOR	2		R703	ERJ6GEYJ562V	1/10W 5.6K	1	
Q803.04	2SD592ASTA	TRANSISTOR	2		R704	ERJ6GEYJ472V	1/10W 4.7K	1	
Q805.06	DTA143EUT106	TRANSISTOR	2		R705	ERJ6GEYJ473V	1/10W 47K	1	
Q807.08	2SB621ARSTA	TRANSISTOR	2		R708	ERJ6GEYJ472V	1/10W 4.7K	1	
Q809-12	DTA143EUT106	TRANSISTOR	4		R710	ERJ6GEYJ102Z	1/10W 1K	1	
Q901.02	DTA113ZSATP	TRANSISTOR	2		R711	ERJ6GEYJ104V	1/10W 100K	1	
					R712.13	ERJ6GEYJ683V	1/10W 68K	2	
R101.02	ERJ6GEYJ562V	1/10W 5.6K	2		R714.15	ERJ6GEYJ473V	1/10W 47K	2	
R103.04	ERJ6GEYJ104V	1/10W 100K	2		R718	ERJ6GEYJ683V	1/8W 68K	1	
R105.06	ERJ6GEYJ334V	1/10W 330K	2		R720	ERJ6GEYJ683V	1/10W 68K	1	
R107.08	ERJ6GEYJ103V	1/10W 10K	2		R721	ERJ6GEYJ472V	1/10W 4.7K	1	
R109.10	ERJ6GEYJ102Z	1/10W 1K	2		R723.24	ERJ6GEYJ102Z	1/10W 1K	2	
R111	ERJ6GEYJ820V	1/10W 82	1		R725.26	ERJ6GEYJ222V	1/10W 2.2K	2	
R112	ERJ6GEYJ820V	1/8W 82	1		R727	ERJ6GEYJ472V	1/10W 4.7K	1	
R113	ERJ6GEYJ123V	1/10W 12K	1		R728	ERJ6GEYJ103V	1/10W 10K	1	
R114	ERJ6GEYJ273V	1/10W 27K	1		R729	ERJ6GEYJ472V	1/10W 4.7K	1	
R117	ERJ6GEYJ102Z	1/10W 1K	1		R730	ERJ6GEYJ222V	1/10W 2.2K	1	

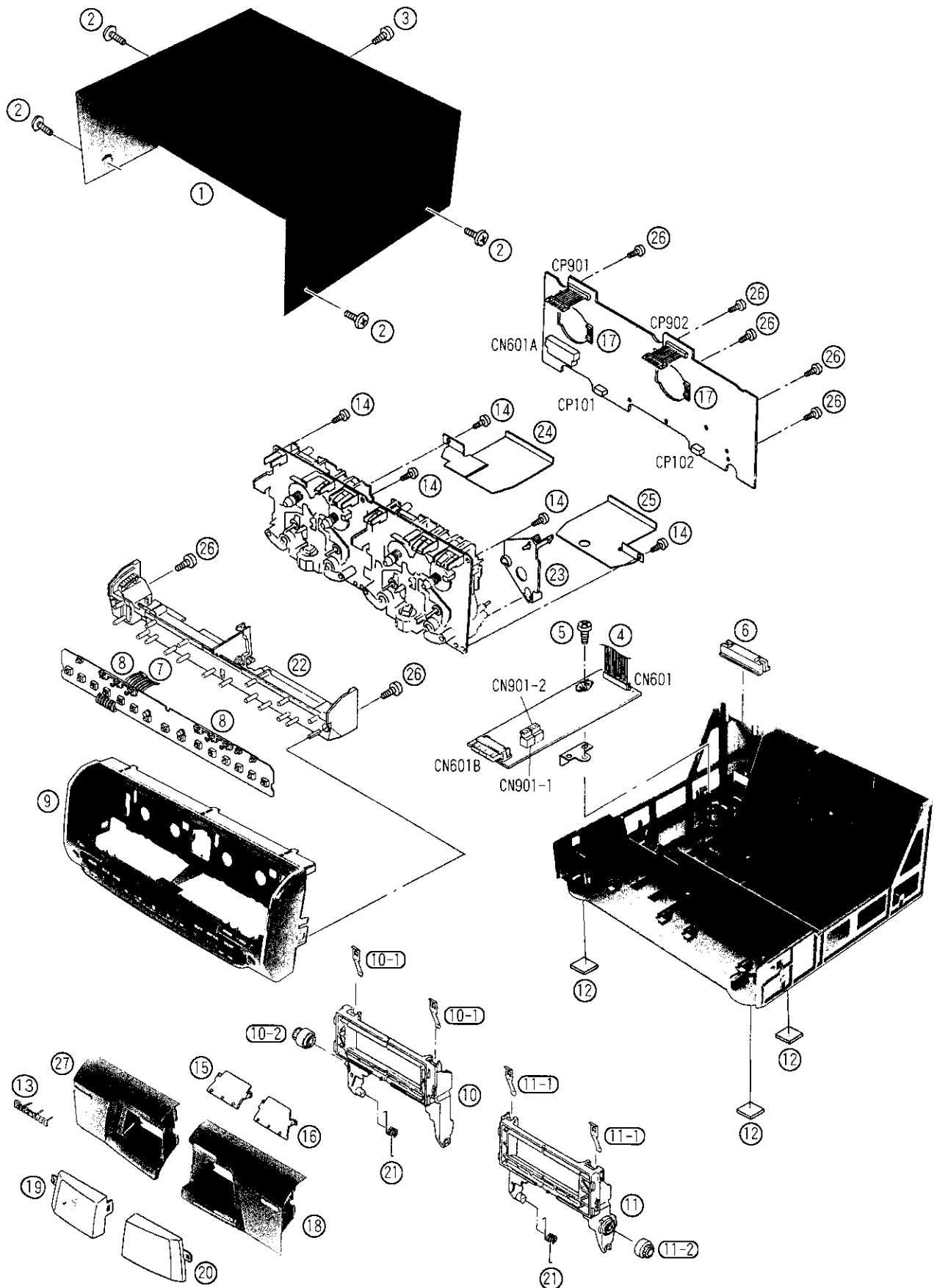
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R732	ERJ6GEYJ104V	1/10W 100K	1						
R735	ERJ6GEYJ472V	1/10W 4.7K	1						
R738	ERJ6GEYJ102Z	1/10W 1K	1						
R739	ERJ6GEYJ272V	1/10W 2.7K	1						
R741	ERJ6GEYJ223V	1/10W 22K	1						
R742	ERJ6GEYJ103V	1/10W 10K	1						
R743	ERJ6GEYJ473V	1/10W 47K	1						
R744	ERJ6GEYJ102Z	1/10W 1K	1						
R745	ERJ6GEYJ101Z	1/10W 100	1						
R746	ERJ6GEYJ103V	1/10W 10K	1						
R747	ERJ6GEYJ102Z	1/10W 1K	1						
R801	ERJ6GEYJ184V	1/10W 180K	1						
R802	ERJ6GEYJ561V	1/10W 560	1						
R803, 04	ERJ6GEYJ103V	1/10W 10K	2						
R805	ERJ6GEYJ392V	1/10W 3.9K	1						
R806	ERJ6GEYJ103V	1/10W 10K	1						
R807	ERJ6GEYJ184V	1/10W 180K	1						
R808	ERJ6GEYJ392V	1/10W 3.9K	1						
R809	ERJ6GEYJ822V	1/10W 8.2K	1						
R810, 11	ERJ6GEYJ103V	1/10W 10K	2						
R812	ERJ6GEYJ561V	1/10W 560	1						
R813, 14	ERJ6GEYJ471V	1/10W 470	2						
R817	ERJ6GEYJ105V	1/10W 1M	1						
R818	ERDS2FJ2R2	1/4W 2.2	1						
R819	ERJ6GEYJ105V	1/10W 1M	1						
R820	ERDS2FJ2R2	1/4W 2.2	1						
R821	ERJ6GEYJ102Z	1/10W 1K	1						
R822	ERJ6GEYJ101Z	1/10W 100	1						
R823, 24	ERJ6GEYJ561V	1/10W 560	2						
R900	ERDS2TJ821T	1/4W 820	1						
R901	ERDS2FJ102	1/4W 1K	1						
R902	ERDS2TJ122T	1/4W 1.2K	1						
R903	ERDS2TJ152T	1/4W 1.5K	1						
R904	ERDS2TJ182T	1/4W 1.8K	1						
R905	ERDS2FJ222	1/4W 2.2K	1						
R906	ERDS2TJ332T	1/4W 3.3K	1						
R907	ERDS2FJ472	1/4W 4.7K	1						
R908	ERDS2FJ682	1/4W 6.8K	1						
R909	ERDS2TJ123T	1/4W 12K	1						
R910	ERDS2TJ223T	1/4W 22K	1						
R911	ERDS2TJ683T	1/4W 68K	1						
R912	ERDS2TJ561T	1/4W 560	1						
R914-17	ERDS2FJ102	1/4W 1K	4						
R918	ERDS2TJ391T	1/4W 390	1						
R919	ERDS2TJ561T	1/4W 560	1						
R922	ERDS2TJ391T	1/4W 390	1						
R923	ERDS2TJ561T	1/4W 560	1						
R924	ERDS2TJ821T	1/4W 820	1						
R925	ERDS2FJ102	1/4W 1K	1						
R926, 27	ERDS2TJ473T	1/4W 47K	2						
R928, 29	ERDS2TJ331T	1/4W 330	2						
R930, 31	ERDS2TJ152T	1/4W 1.5K	2						
R951	ERDS2FJ681	1/4W 680	1						
R953, 54	ERDS2FJ393	1/4W 39K	2						
R971	ERDS2FJ681	1/4W 680	1						
R973, 74	ERDS2FJ393	1/4W 39K	2						
RJ1-J3	W5E-18H	CHIP JUMPER	3						
RJ504-06	ERJ6GEY0R00Z	CHIP JUMPER	3						
RJ507	ERJ8GEY0R00V	CHIP JUMPER	1						
S900-07	EYQPTD05Q	SW	8						
S909-15	EYQPTD05Q	SW	7						
S951	RSH1A018-1U	SW	1						
S952, 53	RSH1A019-2U	SW	2						
S971	RSH1A018-1U	SW	1						
S972-76	RSH1A019-2U	SW	5						
VR101-04	EYNDCAA03B24	VR	4						
VR801-03	EYNDCAA03B53	VR	3						
X701	RSXY8W00M06T	OSCILLATOR	1						
Z971	EXBF7L355SYV	COMPONENT COMBINATION	1						

■ Mechanism Parts Location





■ Cabinet Parts Location



Service Manual

Stereo Cassette Deck

Cassette Deck
RS-EH600

Colour
(H) Gray Type

Area
(E) Europe, Asia,
Latin America,
Middle East,
Africa, New
Zealand and
Australia.

Please file and use this manual together with the service manual for Model No. RS-EH600, Order No. AD9712165C3.

- Notes:**
- This simplified service manual is provided to indicate the differences between the original No. RS-EH600 (GK) and the subsequent model No. RS-EH600 (E).
 - All parts are supplied by MESA.

 **DOLBY B NR** * 1

Because of unique interconnecting cables, when a component requires service, send or bring in the entire system.

* 1 : Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"Dolby" and the double-D symbol  are trade marks of Dolby Laboratories Licensing Corporation.

* 2 : For Europe...Made in PAES
For others...Made in Singapore

System	SC-EH600	SC-EH500	
		For Europe	For others
Sound Processor	SH-EH600	SH-EH500	SH-EH500
Tuner / Amplifier	SA-EH600	SA-EH500	SA-EH500
CD Changer	SL-EH600	—	—
CD Player	—	SL-EH500	SL-EH500
Cassette Deck	RS-EH600	RS-EH600	RS-EH600
Front Speakers*2	SB-EH600	SB-EH600	SB-EH500
Center Speaker*2	SB-PC600	—	SB-PC600
Surround Speakers*2	SB-PS600	—	SB-PS600

■ Replacement Parts List

Ref. No.	Change of Parts No.		Part Name & Description	Remarks
	RS-EH600(GK)	➡ RS-EH600(E)		
CABINET PART(S)				
13	RGB0022-A	RGB0025-A	TECHNICS BADGE	

⚠ 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.

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Printed in Japan
F980206000HS/Y1

Service Manual

Supplement

Cassette Deck

RS-EH60

RS-EH600

RS-EH1000

■ This document is supplementary to the following Service Manuals:

Model No.	Area Code	Order No.	Colour
RS-EH60	GK	AD961222C3	K
	E,EP	AD9703029C8	
RS-EH600	GK,GCS	AD9712165C3	K,H
	E	AD9802041A8	H
RS-EH1000	GK	AD9807139C3	S

Colour(s)

(K) Black Type

(H) Gray Type

(S) Silver Type

Area(s)

(E),(EP) .. Europe, Russia, Asia, Latin America, Middle East, Africa and Oceania.

(GK) China.

(GCS) Asia, Latin America, Middle East, Africa and Oceania.

■ Purpose

In order to improve the Microcomputer in reliability of Performance at the time the Power switch is set to ON.

Replacement Parts List

Ref. No.	Change of Parts No.		Part Name & Description	Remarks
	Original	➡ Supplement		
DIODE(S)				
D701	_____	MA741TX	DIODE	

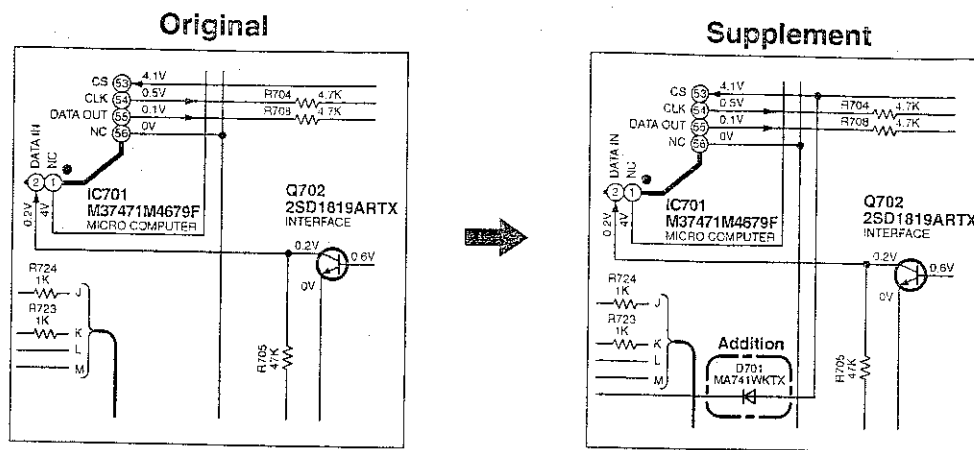
⚠ WARNING

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.

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Schematic Diagram



Printed Circuit Board Diagram

