

Service Manual

Portable Stereo CD System

Radio Cassette
RX-DT5

COMPACT
disc
DIGITAL AUDIO

DIGITAL



Color

(K) Black Type

Area

Country Code	Areas	Color
(EB)	Great Britain	(K)
(EG)	Continental Europe and F.R. Germany	

RX-DS30 MECHANISM SERIES (AR300)

■ SPECIFICATIONS

General:

Power Requirement: AC; (EB)...240V, 50 Hz
(EG)...220 V, 50 Hz
Battery; 15 V (10 R20/LR20, UM-1 batteries)

Power Consumption: 43 W (AC only)

Power Output: 50 W (25 W×2)...PMPO

Speaker: 12 cm×2 PM Dynamic speaker (2.7Ω)

Input: MIX MIC; 2.5 mV/200~600Ω, Ø3.5
AUX; 200 mV/47 kΩ

Output: HEADPHONES; 32Ω, Ø3.5

Dimensions: 660 (W)×198 (H)×251 (D) mm

Weight: 6.6 kg without batteries

Disc Player Section:

Sampling Frequency: 44.1 kHz

D-A Conversion: 2 DAC 4 time over sampling

Beam Source: Semiconductor laser (wavelength 780 nm)

No. of Channels: 2 channels, stereo

Frequency Range: 20~20,000 Hz (+1/-2 dB)

Dynamic Range: 93 dB (1 kHz)

S/N Ratio: 97 dB (1 kHz)

Wow and Flutter: Unmeasurable

Radio Section:

Frequency Range: FM; 87.5~108 MHz
MW; 522~1611 kHz
LW; 144~288 kHz

Intermediate Frequency: FM; 10.7 MHz
AM; 459 kHz

Sensitivity: FM; 11 dB/50 mW output
(-3 dB Lim/Sens)
MW; 34 dB/m/50 mW output
LW; 34 dB/m/50 mW output

Tape Deck Section:

Frequency Range: 40~16,000 Hz (with normal tape)
40~17,000 Hz (with CrO₂ tape)

Recording System: AC bias, AC erase

Tape Speed: 4.8 cm/s

Monitor System: Variable sound monitor

Track System: 4-track 2-channel stereo recording and playback

Timer/Clock:

Power Supply: Battery; DC 6 V (4 R6/LR6, UM-3 batteries)

Weights and dimensions shown are approximate.
Design and specifications are subject to change without notice.

Panasonic

Matsushita Electric Industrial Co., Ltd.
Central P.O. Box 288, Osaka 530-91, Japan

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CAUTION:

THIS PRODUCT UTILIZES A LASER.

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

PRECAUTION OF LASER DIODE

CAUTION: This product utilizes a laser diode with the unit turned "on", invisible laser radiation is emitted from the pick up lens.

Wave length: 780 nm

Maximum output radiation power from pick up: 100 μ W/VDE

Laser radiation from the pick up lens is safety level, but be sure the followings:

1. Do not disassemble the optical pick up unit, since radiation from exposed laser diode is dangerous.
2. Do not adjust the variable resistor on the pickup unit. It was already adjusted.
3. Do not look at the focus lens using optical instruments.
4. Recommend not to look at pick up lens for a long time.

ACHTUNG: Dieses produkt enthält eine laserdiode. Im eingeschalteten zustand wird unsichtbare laserstrahlung von der lasereinheit abgestrahlt.

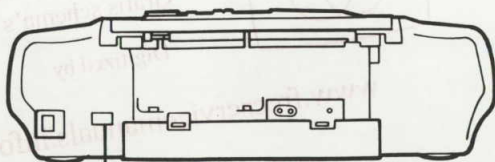
Wellenlänge: 780 nm

Maximale strehlungsleistung der lasereinheit: 100 μ W/VDE

Die strahlung an der lasereinheit ist ungefährlich, wenn folgende punkte beachtet werden:

1. Die lasereinheit nicht zerlegen, da die strahlung an der freigelegten laserdiode gefährlich ist.
2. Den werksseitig justierten einstellregler der lasereinheit nicht verstellen.
3. Nicht mit optischen instrumenten in die fokussierlinse blicken.
4. Nicht über längere zeit in die fokussierlinse blicken.

ADVASEL: I dette a apparat anvendes laser.



DANGER: Invisible laser radiation when open and interlock defeated. AVOID DIRECT EXPOSURE TO BEAM.

(Inside of product)

VORSICHT: Unsichtbare Laserstrahlung, wenn Abdeckung geöffnet und Sicherheitsverriegelung überbrückt. Nicht dem Strahl aussetzen.

(Im Inneren des Gerätes)

**CLASS 1
LASER PRODUCT**

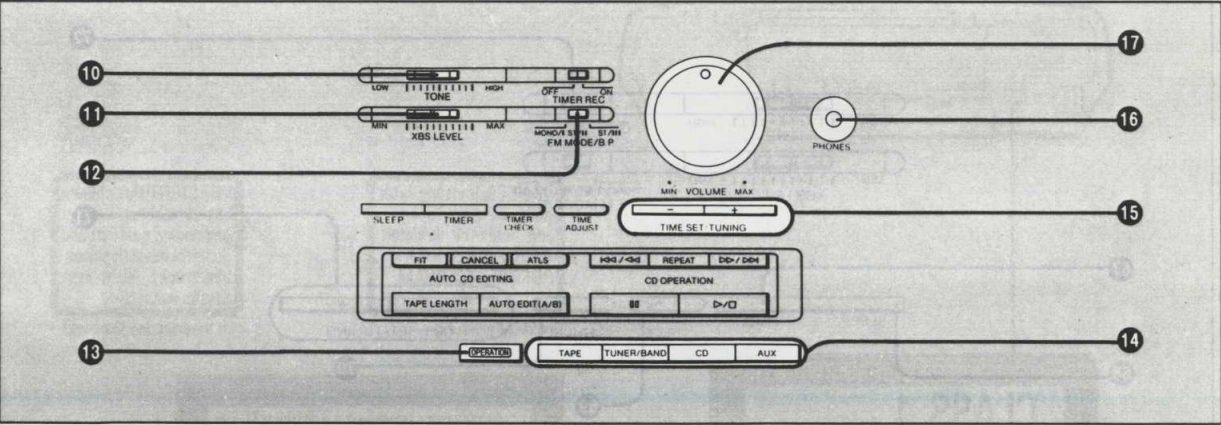
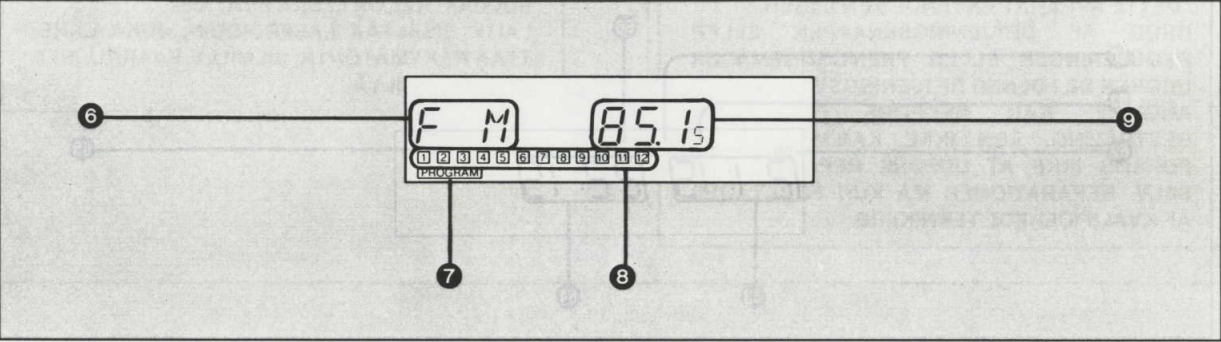
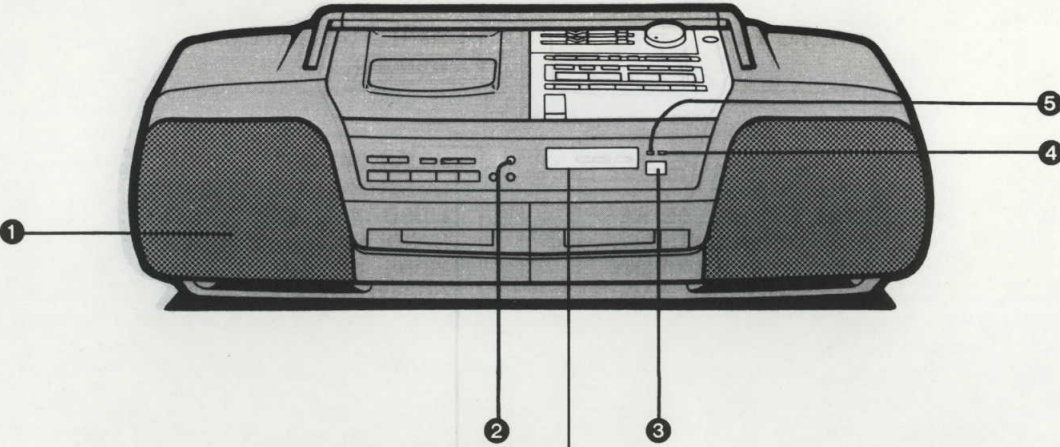
LUOKAN 1 LASERLAITE

ADVASEL: USYNLIG LASERSTRÅLING VED ÅBNING, NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSÆTTELSE FOR STRÅLING.

(Indersiden af apparatet)

LOCATION OF CONTROLS

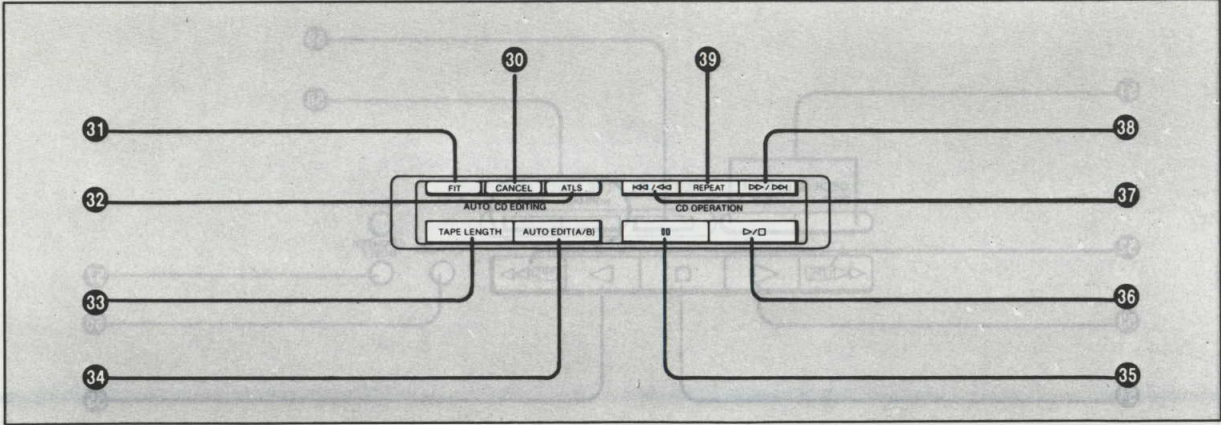
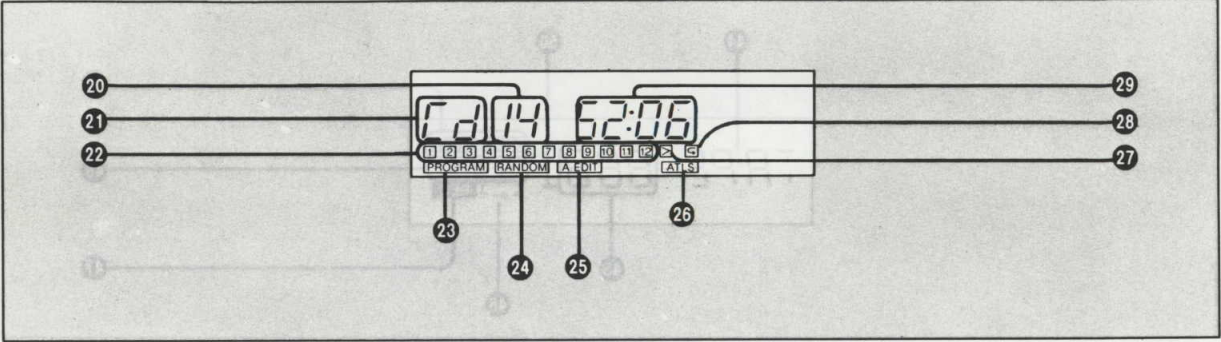
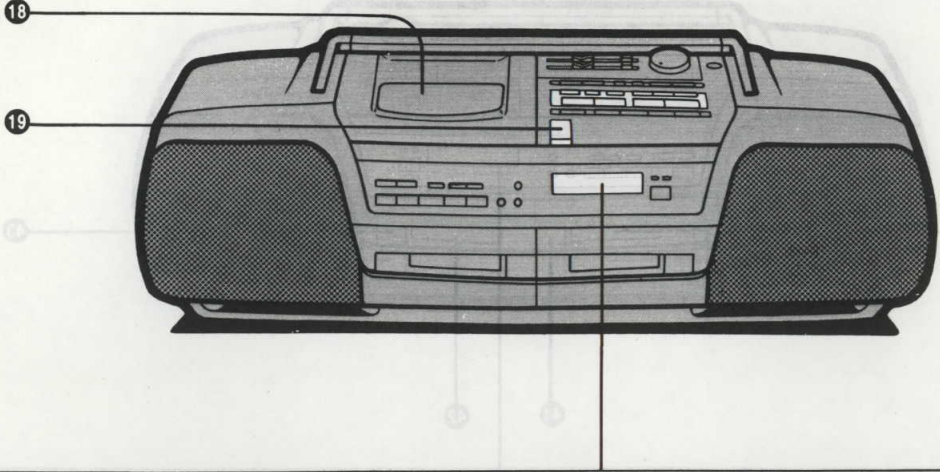
TUNER/GENERAL CONTROLS



TUNER/GENERAL CONTROLS

- 1 Speakers (12 cm, 2.7Ω)
- 2 Display Selector Switch (DISPLAY)
- 3 Remote Control Sensor (SENSOR)
- 4 Tuning Indicator (TUNING)
- 5 Operation/Battery Check/AC Connection Indicator (OPR/BATT/STANDBY)
- 6 Band Indicators (FM/LW/MW)
- 7 Program Indicator (PROGRAM)
- 8 Preset Station Display
- 9 Frequency Display
- 10 Tone Control (TONE)
- 11 XBS Level Control (XBS LEVEL)
- 12 FM Mode/Beat Proof Switch (FM MODE/B.P)
- 13 Operation Switch (OPERATION)
The operation can be turned on by pressing one of the Function Selector Buttons.
- 14 Function Selector Buttons (TAPE • TUNER/BAND • CD • AUX)
The TUNER/BAND Button also function as the band selector.
- 15 Tuning Buttons (TIME SET/TUNING)
- 16 Headphone Jack (PHONES) (Ø3.5, 32Ω)
- 17 Volume Control (VOLUME)

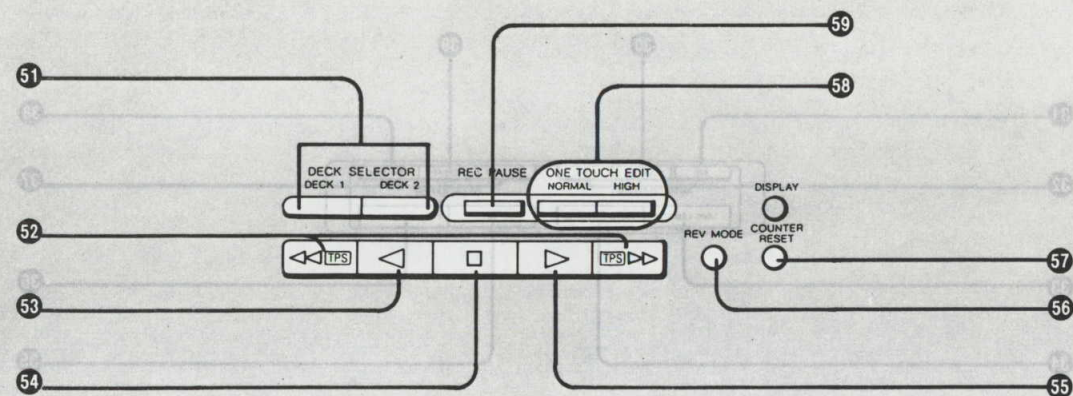
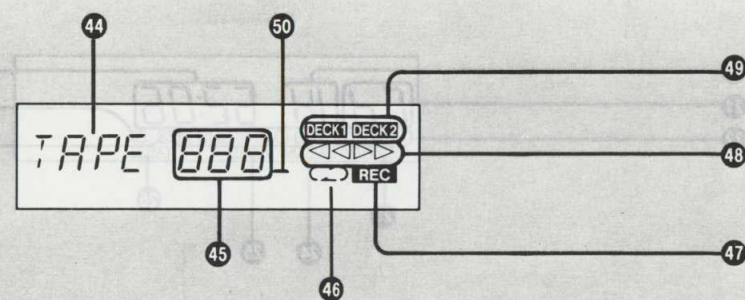
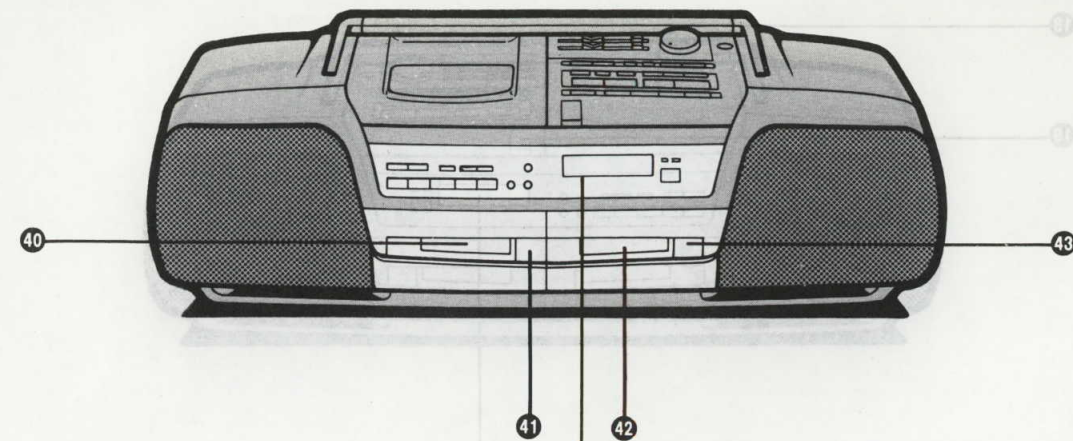
CD-CONTROLS



CD CONTROLS

- 18 Disc Holder
- 19 CD Eject Button (CD EJECT)
- 20 Track No. Display
- 21 CD Mode Indicator
- 22 Music Matrix
- 23 Program Indicator (PROGRAM)
- 24 Random Indicator (RANDOM)
- 25 Auto Edit Indicator (A. EDIT)
- 26 ATLS Indicator (ATLS)
- 27 Over Mark Indicator (▷)
- 28 Repeat Indicator (◻)
- 29 Playing Time Display
- 30 Cancel Button (CANCEL)
- 31 Fit Button (FIT)
- 32 ATLS Button (ATLS)
- 33 Tape Length Button (TAPE LENGTH)
- 34 Auto Edit Button [AUTO EDIT (A/B)]
- 35 Pause Button (⏸)
- 36 Play/Stop Button (▶/◻)
- 37 Skip/Search Button (◀◀/▶▶)
- 38 Skip/Search Button (▶▶/▶▶)
- 39 Repeat Button (REPEAT)

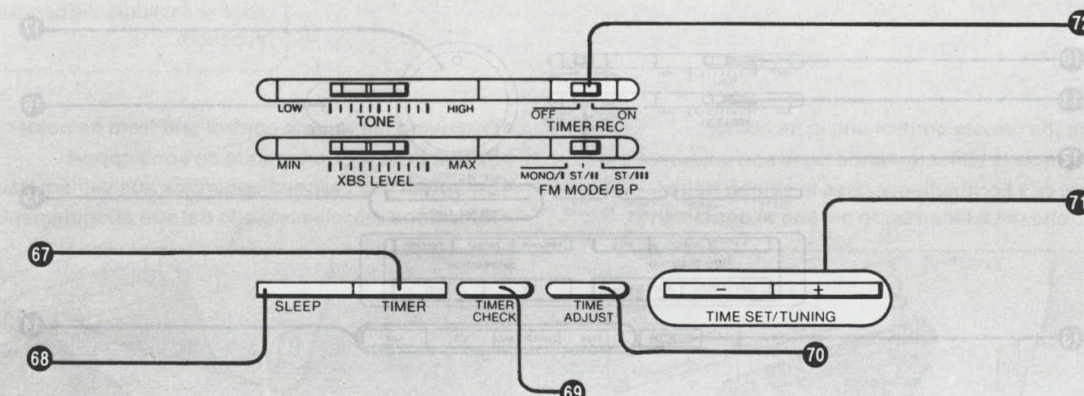
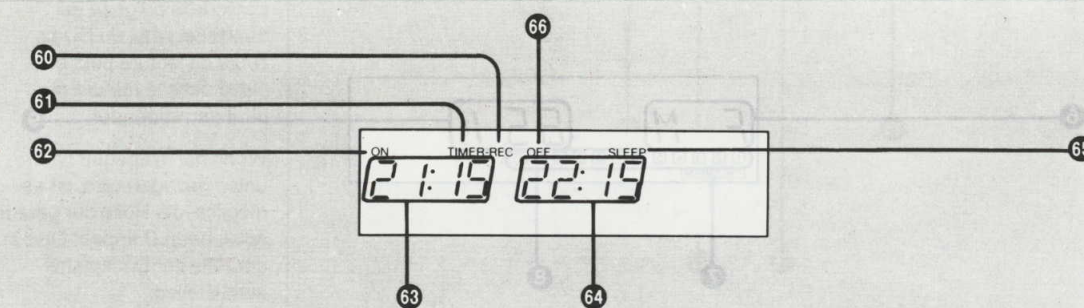
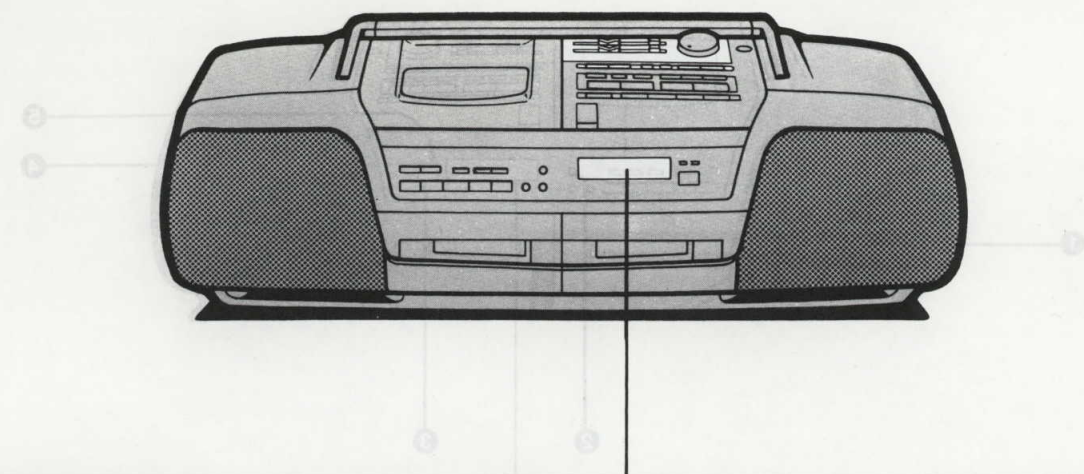
DECK CONTROLS



DECK CONTROLS

- 40 Deck 1 Cassette Holder
- 41 Deck 1 Eject Button (EJECT)
- 42 Deck 2 Cassette Holder
- 43 Deck 2 Eject Button (EJECT)
- 44 Tape Mode Indicator
- 45 Tape Counter
- 46 Reverse Mode Indicator
- 47 Recording Indicator (REC)
- 48 Direction Indicator
- 49 Deck 1, 2 Indicators (DECK 1 DECK 2)
- 50 Running Indicator
- 51 Deck Selector Buttons (DECK SELECTOR)
- 52 Fast/TPS Button (<< TPS >>)
- 53 Reverse Side Playback Button (<)
- 54 Stop button (□)
- 55 Front Side Playback Button (>)
- 56 Reverse Mode Selector Switch (REV MODE)
- 57 Counter Reset Button (COUNTER RESET)
- 58 Edit Recording Button (ONE TOUCH EDIT)
- 59 Recording Pause Button (REC PAUSE)

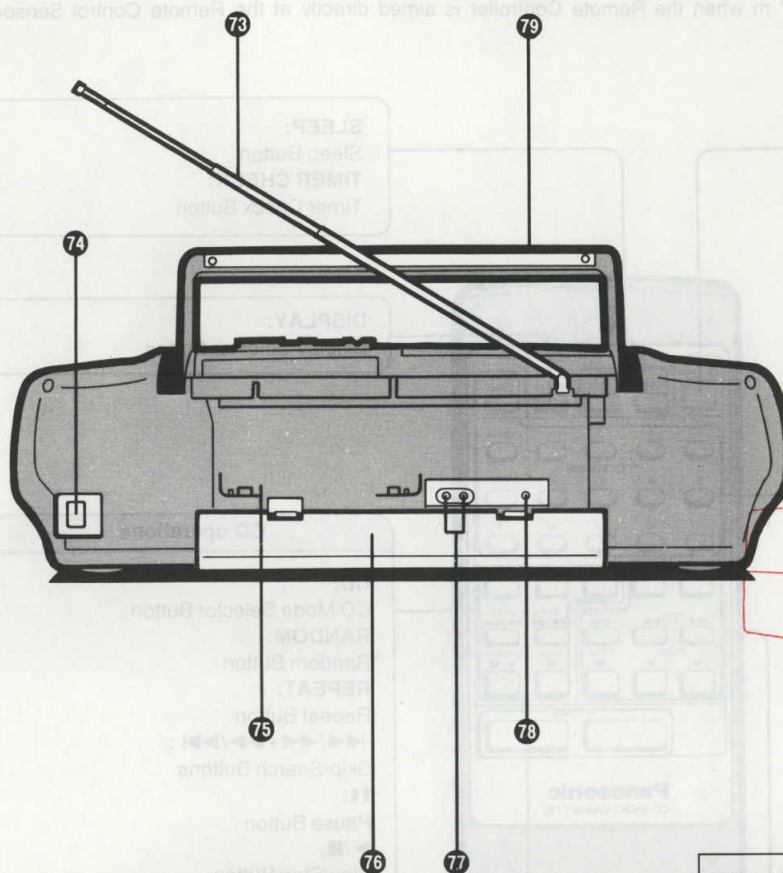
TIMER CONTROLS



TIMER CONTROLS

- 60 Timer Recording Indicator (TIMER-REC)
- 61 Timer Indicator (TIMER)
- 62 Timer ON Time Indicator (ON)
- 63 Timer ON Time/Play Mode Indicator
- 64 Timer OFF Time/Time Display
- 65 Sleep Indicator (SLEEP)
- 66 Timer OFF Time Indicator (OFF)
- 67 Timer Button (TIMER)
- 68 Sleep Button (SLEEP)
- 69 Timer Check Button (TIMER CHECK)
- 70 Time Adjust Button (TIME ADJUST)
- 71 Time/Sleep Time Adjust Buttons (TIME SET/TUNING)
- 72 Timer Recording Switch (TIMER-REC)

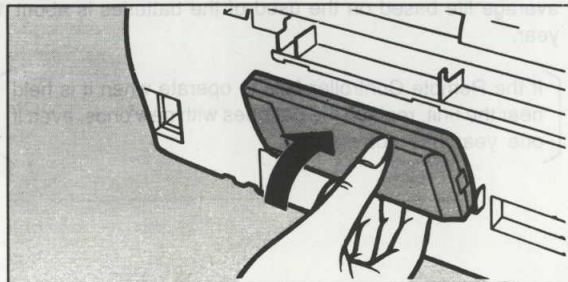
REAR PANEL



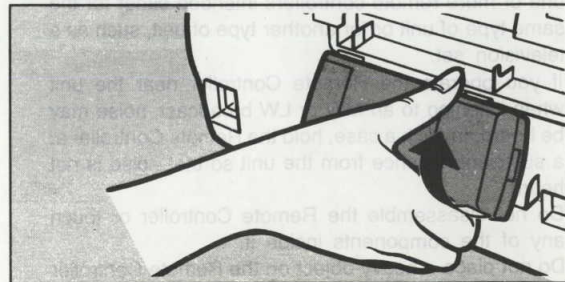
REAR PANEL

- 73 Telescopic Antenna
- 74 AC Socket (AC IN ~)
- 75 Remote Control Holder
- 76 Battery Compartment Cover
- 77 Auxiliary Input Jacks (AUX IN) (200 mV/47 kΩ)
- 78 Mixing Mic Jack (MIX MIC) (Ø3.5, 200~600Ω)
- 79 Handle

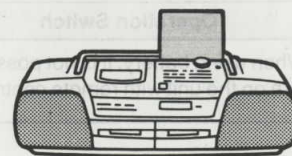
•Installing the remote control unit in its holder



•Removing the remote control unit from its holder



CD Jacket Stand

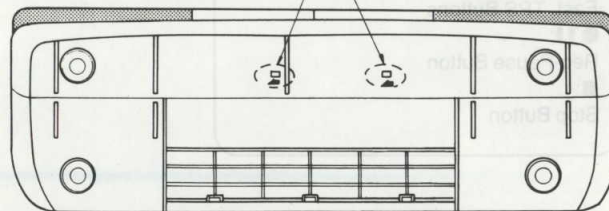


When the handle is pulled down, the jacket of the CD now being played can be stood up in the groove of the top panel.

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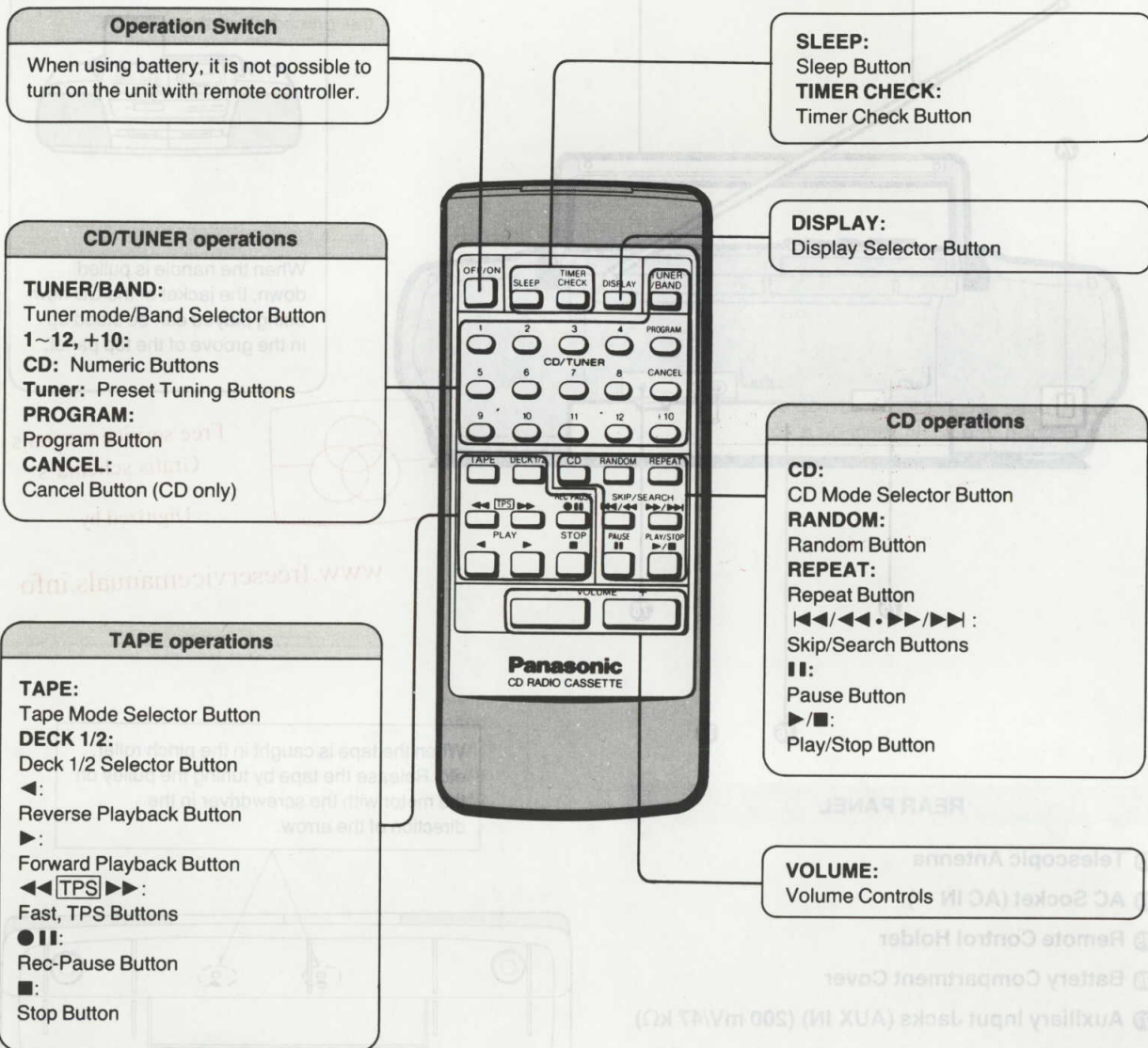
www.freeservicemanuals.info

When the tape is caught in the pinch roller, etc. Release the tape by turning the pulley on the motor with the screwdriver in the direction of the arrow.



● Remote control operation

- The receiving angle is approx. 60° (30° in each of the left, right, up, and down directions).
- The maximum usable distance is about 7 m when the Remote Controller is aimed directly at the Remote Control Sensor.



- Do not operate the Remote Controller of this unit near a unit which is designed to operate using a different remote controller.
- Do not simultaneously use this Remote Controller and one or more remote controllers intended either for the same type of unit or for another type of unit, such as a television set.
- If you operate the Remote Controller near the unit when listening to an MW or LW broadcast, noise may be heard. In such a case, hold the Remote Controller at a sufficient distance from the unit so that noise is not heard.
- Do not disassemble the Remote Controller or touch any of the components inside it.
Do not place a heavy object on the Remote Controller or leave it exposed to direct sunlight or in a hot location.
- Do not spill liquids on the Remote Controller. This may cause damage to the controller.

■ Replacement interval of Remote Controller batteries

Although the life of the batteries will vary depending upon the number of times that the Remote Controller is used, the average life based on the used of the batteries is about 1 year.

If the Remote Controller fails to operate when it is held near the unit, replace the batteries with new ones, even if one year has not elapsed.

HADLING PRECAUTIONS FOR TRAVERSE DECK

The laser diode in the traverse deck (optical pickup) may break down due to potential difference caused by static electricity of clothes or human body.

So, be careful of electrostatic breakdown during repair of the traverse deck (optical pickup).

• Handling of traverse deck (optical pickup)

1. Do not subject the traverse deck (optical pickup) to static electricity as it is extremely sensitive to electrical shock.
2. To prevent the breakdown of the laser diode, an anti-static shorting pin is inserted into the flexible board (FPC board).
When removing or connecting the short pin, finish the job in as short time as possible.
3. Take care not to apply excessive stress to the flexible board (FPC board).
4. Do not turn the variable resistor (laser power adjustment). It has already been adjusted.

• Grounding for electrostatic breakdown prevention

1. Human body grounding

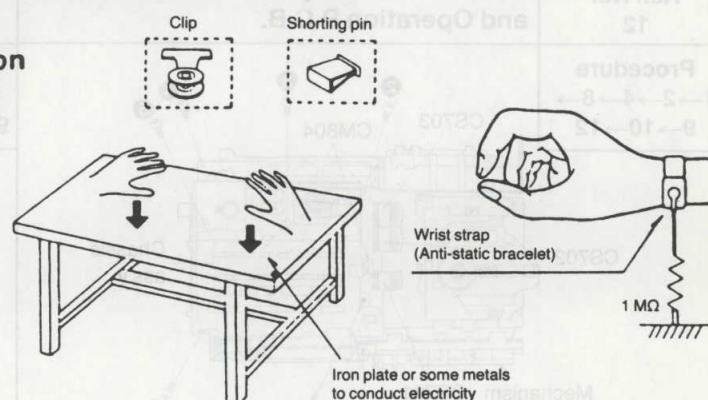
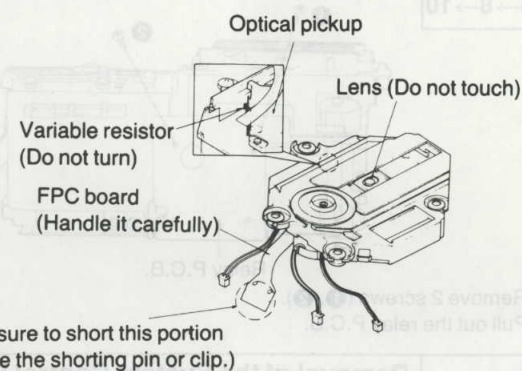
Use the anti-static wrist strap to relieve the static electricity from your body.

2. Work table grounding

Put a conductive material (sheet) or steel sheet on the area where the optical pickup is placed, and ground the sheet.

Caution:

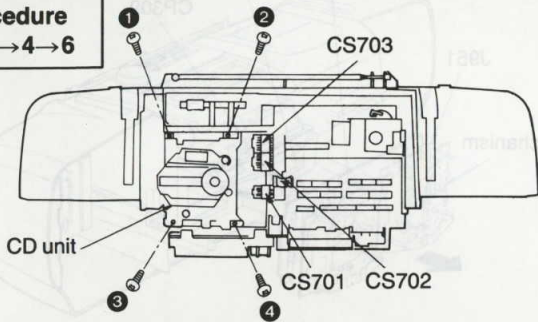
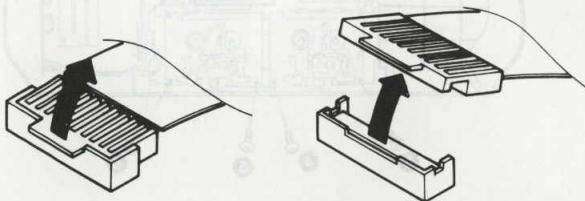
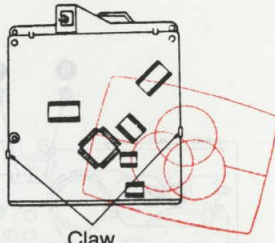
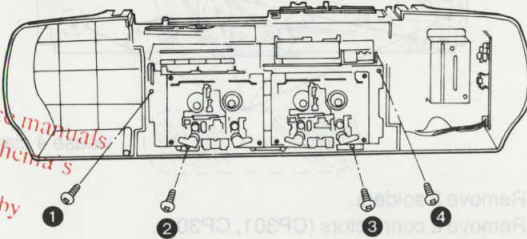
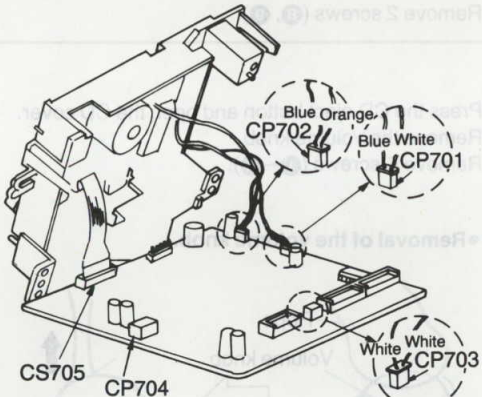
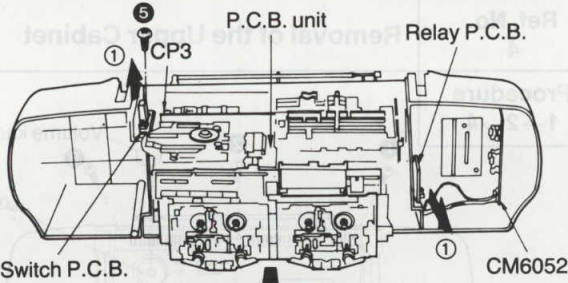
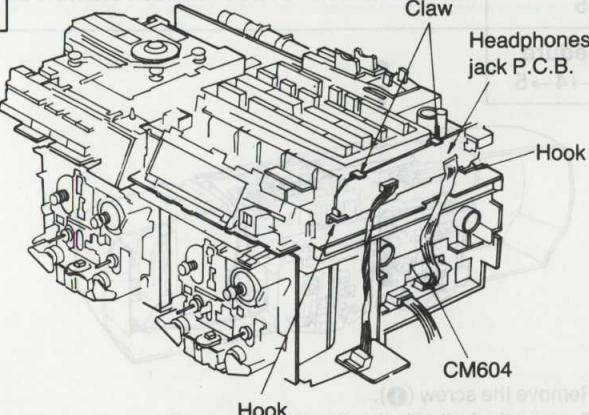
The static electricity of your clothes will not be grounded through the wrist strap. So, take care not to let your clothes touch the optical pickup.

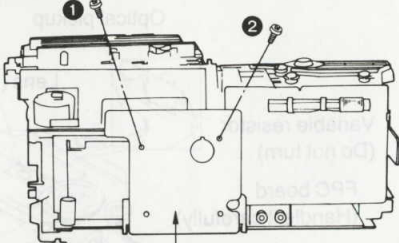
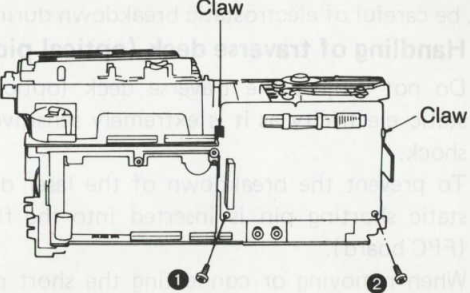
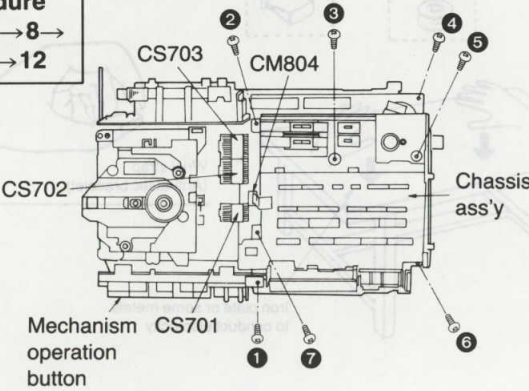
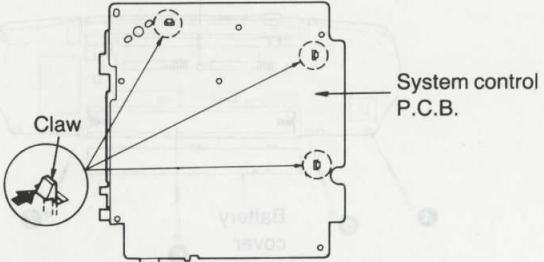
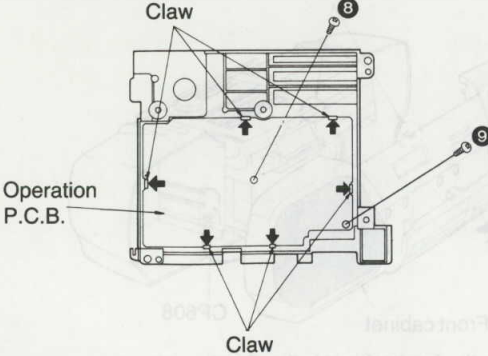
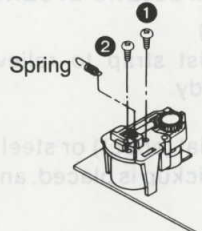
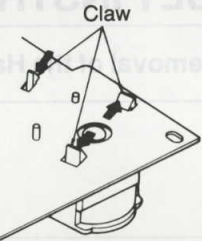
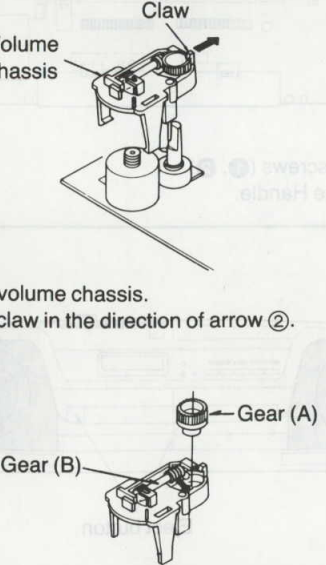


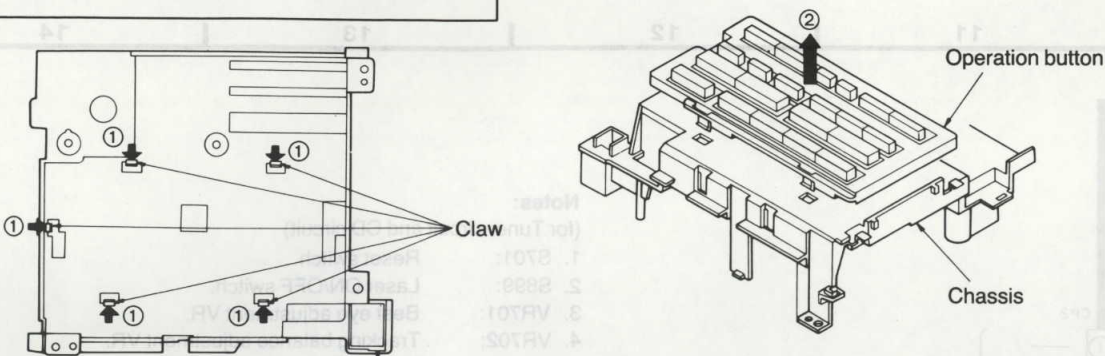
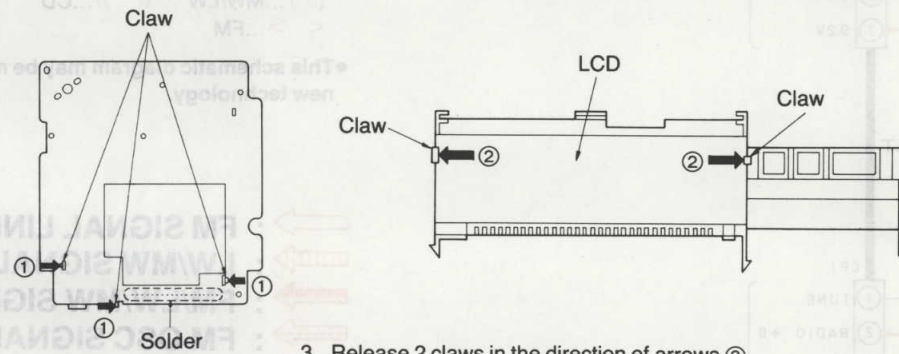
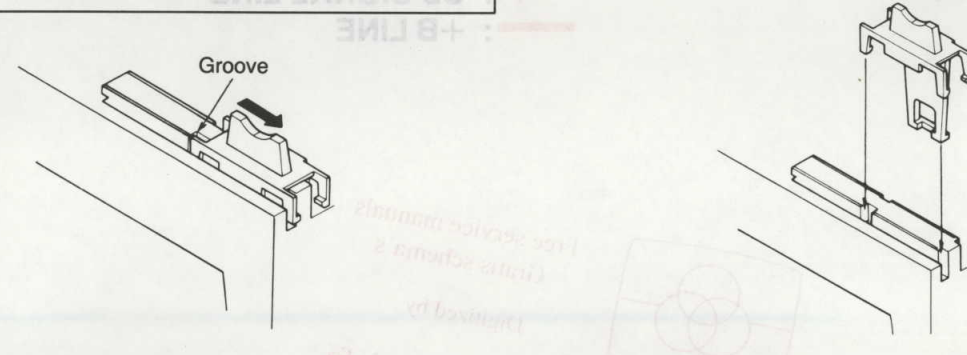
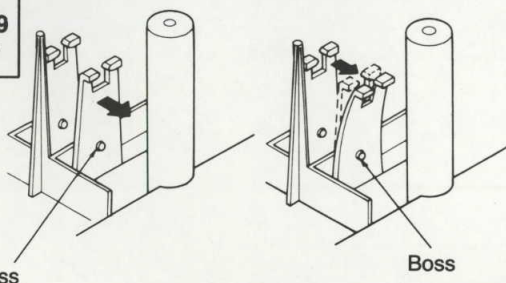
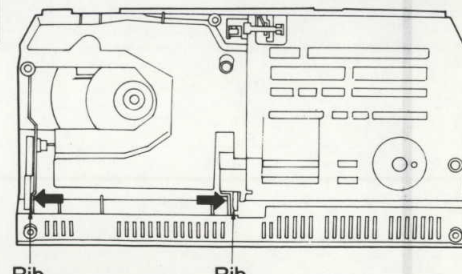
DISASSEMBLY INSTRUCTIONS

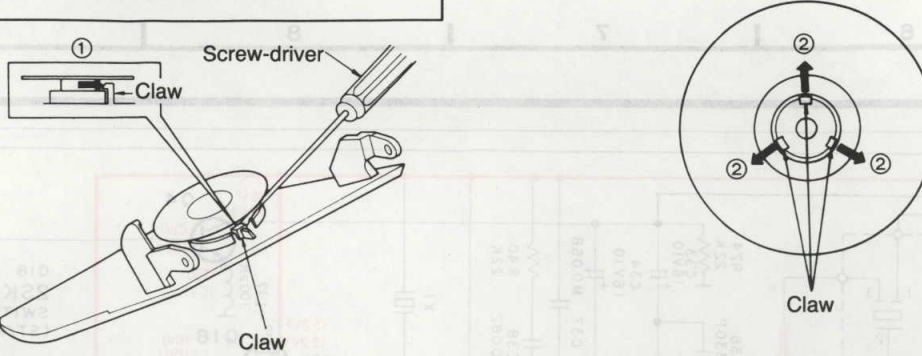
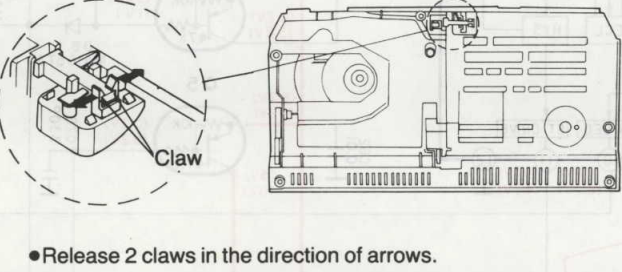
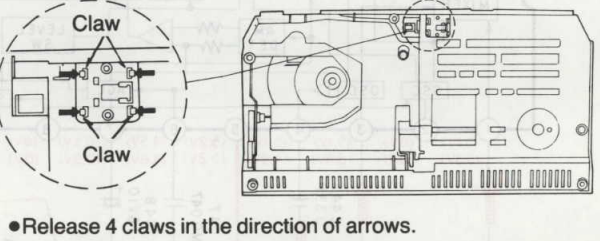
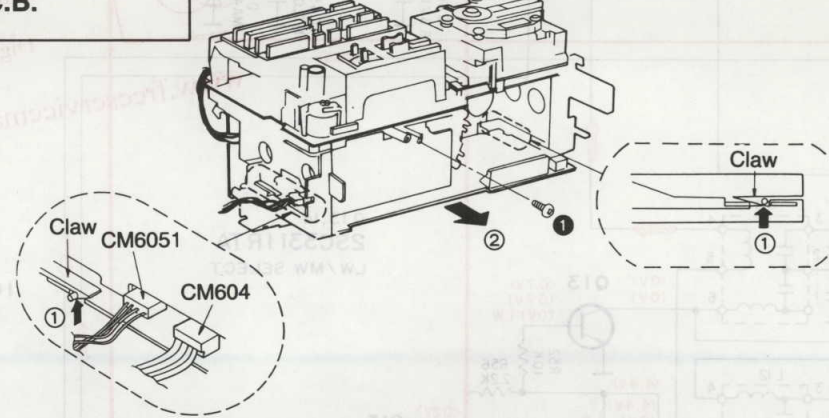
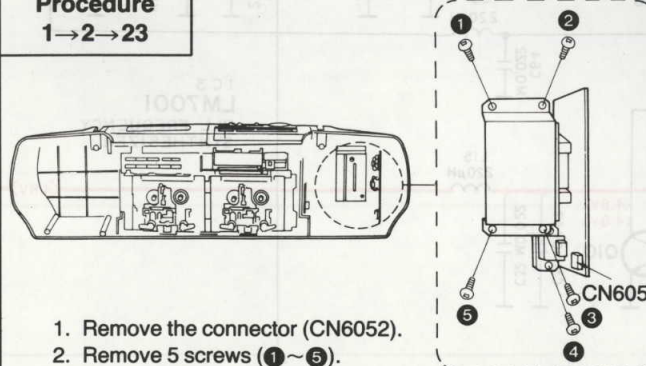
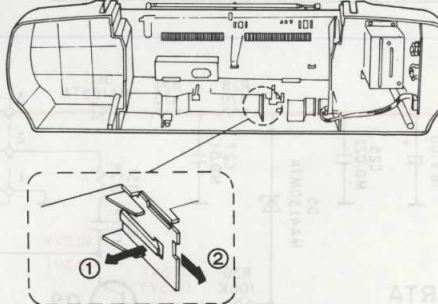
Ref. No. 1	Removal of the Handle	Ref. No. 2	Removal of the Front Cabinet
Procedure 1	1. Remove 2 screws (①, ②). 2. Slide out the Handle.	Procedure 1→2	1. Remove the battery cover. 2. Remove 8 screws (①~⑧).
	3. Press the eject button and open the cassette holder.		4. Remove the front cabinet in the direction of arrow. 5. Remove the claw. 6. Remove the connector (CP608).

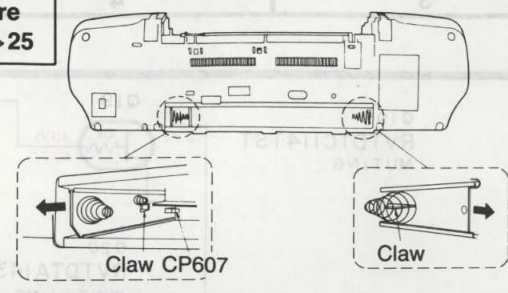
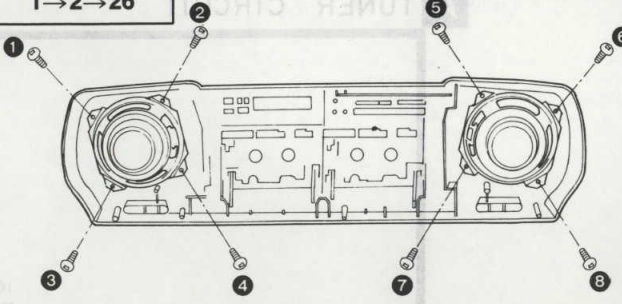
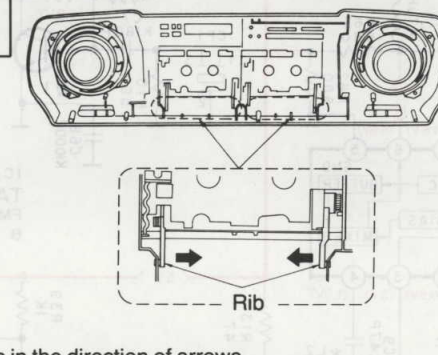
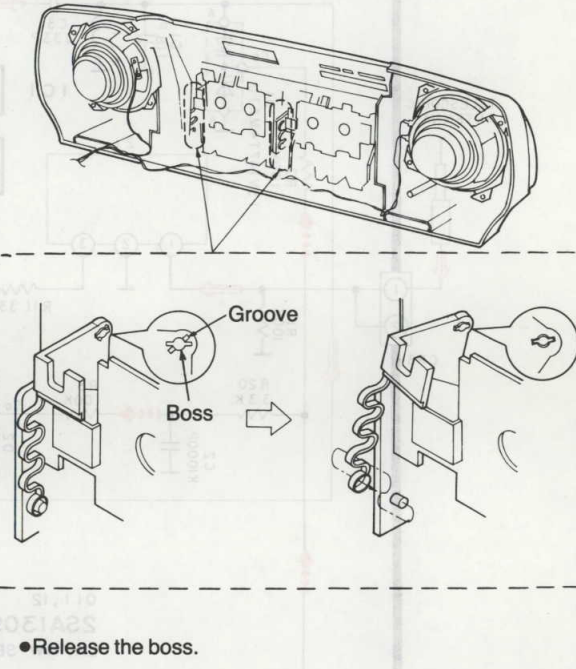
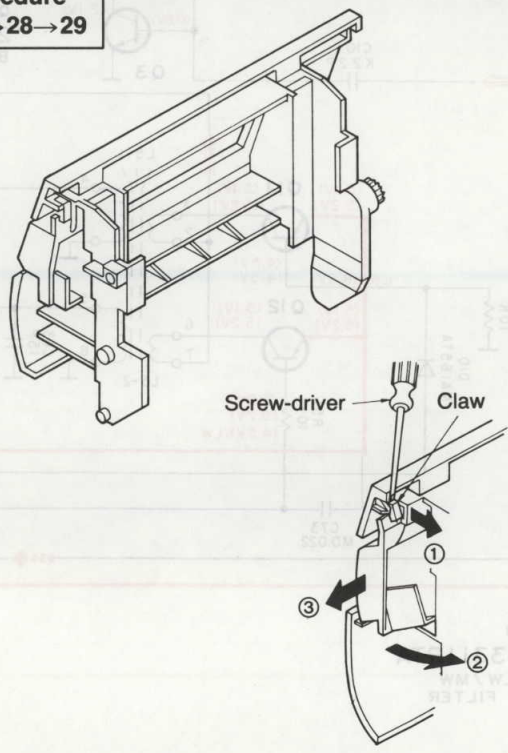
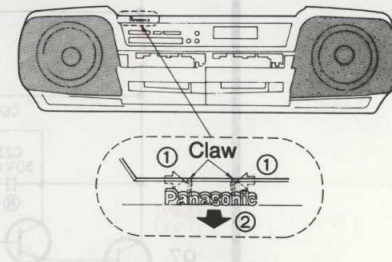
Ref. No. 3	Removal of the Mechanism	
Procedure 1→2→3	1. Remove 6 screws (①~⑥).	2. Remove the mechanism unit in the direction of arrow. 3. Remove 4 connectors (CP307, CP309, J971, J951).
	4. Remove 2 solders. 5. Remove 2 connectors (CP301, CP302). 6. Remove the screw (⑦). 7. Release 3 bosses.	8. Remove 2 screws (⑧, ⑨).
Ref. No. 4	Removal of the Upper Cabinet	
Procedure 1→2→4	1. Press the CD eject button and open the CD cover. 2. Remove the volume knob. 3. Remove 6 screws (①~⑥).	4. Remove the upper cabinet in the direction of arrow.
Ref. No. 5	Removal of the Mechanism Button and Mechanism Control P.C.B.	
Procedure 1→2→4→5	1. Remove the screw (①). 2. Remove the button in the direction of arrow ①.	3. Release 5 claws in the direction of arrows ②.

Ref. No. 6	Removal of the CD Unit		
Procedure 1→2→4→6		●Removal of the connector (CS701, CS702, CS703).	
1. Remove 4 screws (①~④). 2. Remove 3 connectors (CS701, CS702, CS703).			
Ref. No. 7	Removal of the CD P.C.B.	Ref. No. 8	Removal of the P.C.B. Unit
Procedure 1→2→4→6→7		Procedure 1→2→4→8	
1. Release 2 claws.		Remove 4 screws (①~④).	
			
2. Remove 5 connectors (CP701, CP702, CP703, CP704, CS705).		2. Remove the screw (⑤). 3. Remove 2 connectors (CP3, CM6052). 4. Remove the switch P.C.B. and relay P.C.B. in the direction of arrows ①. 5. Remove the P.C.B. unit in the direction of arrow ②.	
Ref. No. 9	Removal of the Headphones Jack P.C.B.		
Procedure 1→2→4→8→9	1. Remove the connector (CM604). 2. Release 2 claws. 3. Release 2 hooks.		
			

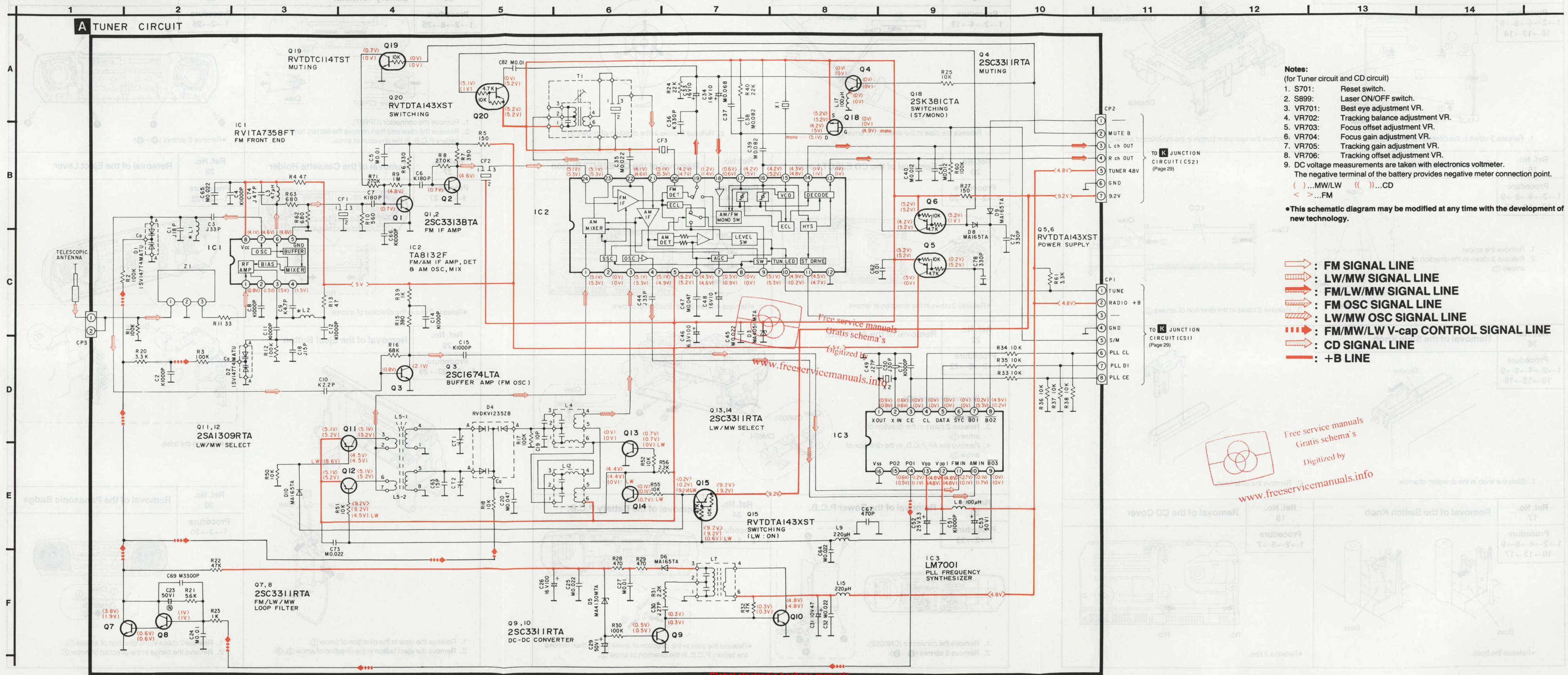
Ref. No. 10 Removal of the Relay P.C.B.	Procedure 1→2→4→8→10  Relay P.C.B. 1. Remove 2 screws (1, 2). 2. Pull out the relay P.C.B.	Ref. No. 11 Removal of the Tuner P.C.B.	Procedure 1→2→4→8→10→11  1. Remove 2 screws (1, 2). 2. Release 2 claws.
Ref. No. 12 Removal of the System Control P.C.B. and Operation P.C.B.	Procedure 1→2→4→8→9→10→12  1. Remove the screw (1). 2. Remove the mechanism operation button. 3. Remove 6 screws (2~7). 4. Remove 4 connectors (CS701, CS702, CS703, CM804). 5. Remove the chassis ass'y.  6. Release 3 claws in the direction of arrow and then remove the system control P.C.B.  7. Remove 2 screws (8, 9). 8. Release 6 claws in the direction of arrows.	Ref. No. 13 Removal of the Volume Chassis	Procedure 1→2→4→8→9→10→12→13  1. Remove the spring. 2. Remove 2 screws (1, 2). 3. Release 3 claws in the direction of arrows ①.  4. Remove the volume chassis. 5. Release the claw in the direction of arrow ②.  6. Pull out the gear (A). 7. Remove the gear (B) in the direction of arrow ③.

Ref. No. 14	Removal of the Operation Button				
Procedure 1→2→4→8→9 10→12→14					
1. Release 5 claws in the direction of arrows ①.					
2. Remove the operation button in the direction of arrow ②.					
Ref. No. 15	Removal of the LCD				
Procedure 1→2→4→8→9 10→12→15					
1. Remove the solder.					
2. Release 3 claws in the direction of arrows ①.					
3. Release 2 claws in the direction of arrows ②.					
Ref. No. 16	Removal of the Slide Knob				
Procedure 1→2→4→8→9 10→12→16					
1. Slide the knob in the direction of arrow.					
2. Remove the slide knob.					
Ref. No. 17	Removal of the Switch Knob		Ref. No. 18	Removal of the CD Cover	
Procedure 1→2→4→8→9 10→12→17			Procedure 1→2→5→7		
●Release the boss.		●Release 2 ribs.			

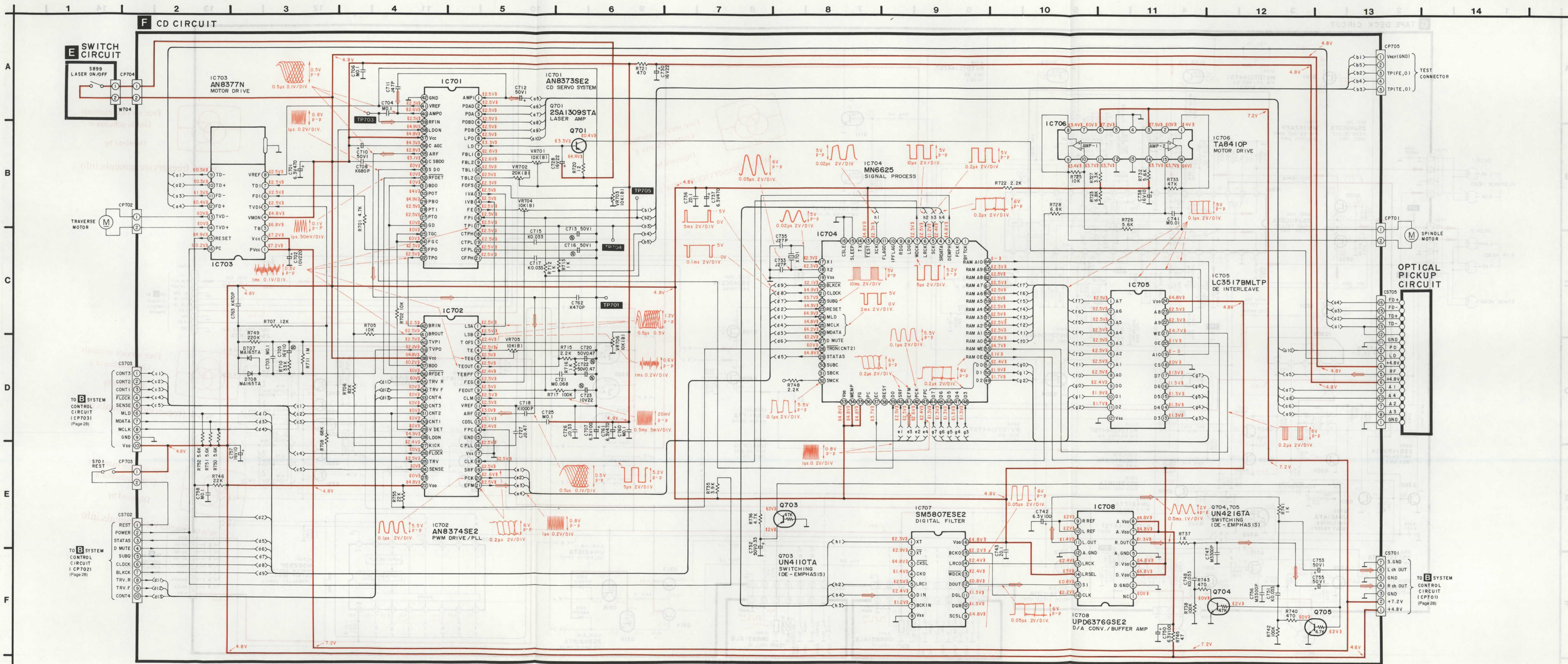
Ref. No. 19	Removal of the Disc Holder		
Procedure 1→2→4→19	 1. Release the claw in the direction of arrow ①. 2. Release 3 claws in the direction of arrows ②.		
Ref. No. 20	Removal of the CD EJECT Lever	Ref. No. 21	Removal of the CD EJECT Button
Procedure 1→2→4→20	 •Release 2 claws in the direction of arrows.	Procedure 1→2→4→20→21	 •Release 4 claws in the direction of arrows.
Ref. No. 22	Removal of the AF P.C.B.		
Procedure 1→2→8→22	 1. Remove the screw ①. 2. Remove 2 connectors (CM604, CM6051). 3. Release 2 claws in the direction of arrow ①. 4. Remove the AF P.C.B. in the direction of arrow ②.		
Ref. No. 23	Removal of the Power P.C.B.	Ref. No. 24	Removal of the Battery P.C.B.
Procedure 1→2→23	 1. Remove the connector (CN6052). 2. Remove 5 screws ①~⑤.	Procedure 1→2→4→8→24	 •Release the claw in the direction of arrow ① and then remove the battery P.C.B. in the direction of arrow ②.

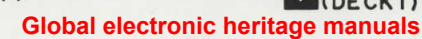
Ref. No. 25	Removal of the Battery P.C.B. and Battery Terminal		Ref. No. 26	Removal of the Speaker
Procedure 1→2→8→25	 1. Remove the connector (CP607). 2. Release the claw and then remove the battery terminal and battery P.C.B. in the direction of arrow.		Procedure 1→2→26	 •Remove 8 screws ①~⑧.
Ref. No. 27	Removal of the Cassette Holder		Ref. No. 28	Removal of the Eject Lever.
Procedure 1→2→27	 •Release 2 ribs in the direction of arrows.		Procedure 1→2→28	 •Release the boss.
Ref. No. 29	Removal of the Eject Button		Ref. No. 30	Removal of the Panasonic Badge
Procedure 1→2→28→29	 1. Release the claw in the direction of arrow ①. 2. Remove the eject button in the direction of arrow ②, ③.		Procedure 1→2→30	 1. Release 2 claws in the direction of arrows ①. 2. Remove the badge in the direction of arrow ②.

SCHEMATIC DIAGRAM • TUNER CIRCUIT (Parts list on pages 66~72)



SCHEMATIC DIAGRAM • CD CIRCUIT (Parts list on pages 66~72)





Notes:

for Tape deck circuit

- S951: Deck 1 mode detect switch.
- S952: Deck 1 cassette tape insertion detect switch.
- S953: Deck 2 CrO₂ tape detect switch.
- S971: Deck 2 mode detect switch.
- S972: Deck 2 cassette tape insertion detect switch.
- S973: Deck 2 record prevention tab detect switch. (REV)

- S974: Deck 2 record prevention tab detect switch. (FWD)
- S975: Deck 2 CrO₂ tape detect switch.
- VR301: Deck 2 tape speed adjustment VR. (HIGH)
- VR302: Deck 2 tape speed adjustment VR. (NORMAL)
- VR303: Deck 1 tape speed adjustment VR.

for System control and operation (Tape deck, Tuner, CD and Timer) circuit

- S800: Tape stop "■" switch.
- S802: CD play/stop "▶/■" switch.
- S803: Power switch.
- S804: Tape reverse side playback "◀" switch.
- S806: CD pause "||" switch.
- S807: Function select "TAPE" switch.
- S808: Display select "DISPLAY" switch.
- S809: Tape fast/TPS "◀◀ [TPS]" switch.
- S811: CD repeat "REPEAT" switch.
- S812: Function select "TUNER/BAND" switch.
- S813: Tape counter reset "COUNTER RESET" switch.
- S814: Tape deck 1 select "DECK 1" switch.
- S816: CD auto edit "AUTO EDIT (A/B)" switch.
- S817: Function select "CD" switch.
- S819: Tape deck select "DECK 2" switch.
- S821: CD skip/search "▶▶▶▶" switch.
- S822: Function select "AUX" switch.
- S823: Tape front side playback "▶" switch.
- S825: Auto CD editing "CANCEL" switch.
- S826: Timer set/tuning "+" switch.
- S827: Tape fast/TPS "[TPS] ▶▶" switch.
- S831: Tape reverse mode select "REV MODE" switch.
- S833: CD skip/search "▶▶▶▶" switch.
- S834: Sleep "SLEEP" switch.
- S835: Tape recording pause (REC PAUSE) switch.
- S837: Tape length "TAPE LENGTH" switch.
- S838: Timer "TIMER" switch.
- S839: CD cover open/close detect switch.
- S840: Tape one touch edit "NORMAL" switch.
- S843: Time set/tuning "-" switch.
- S844: Tape one touch edit "HIGH" switch.
- S846: Auto CD editing "ATLS" switch.
- S847: Timer check "TIMER CHECK" switch.
- S849: Auto CD editing "FIT" switch.
- S850: Time adjust "TIME ADJUST" switch.
- S851: FM mode/Beat proof "FM MODE/B.P" switch in "MONO/I" position.
- S854: Timer recording "TIMER-REC" switch in "OFF" position.
- S899: Laser power off switch.
- VR470: Tone control VR. (Lch)
- VR472: XBS level control VR. (Lch)
- VR473: Volume control VR. (Lch)
- VR570: Tone control VR. (Rch)
- VR572: XBS level control VR. (Rch)
- VR573: Volume control VR. (Rch)

General

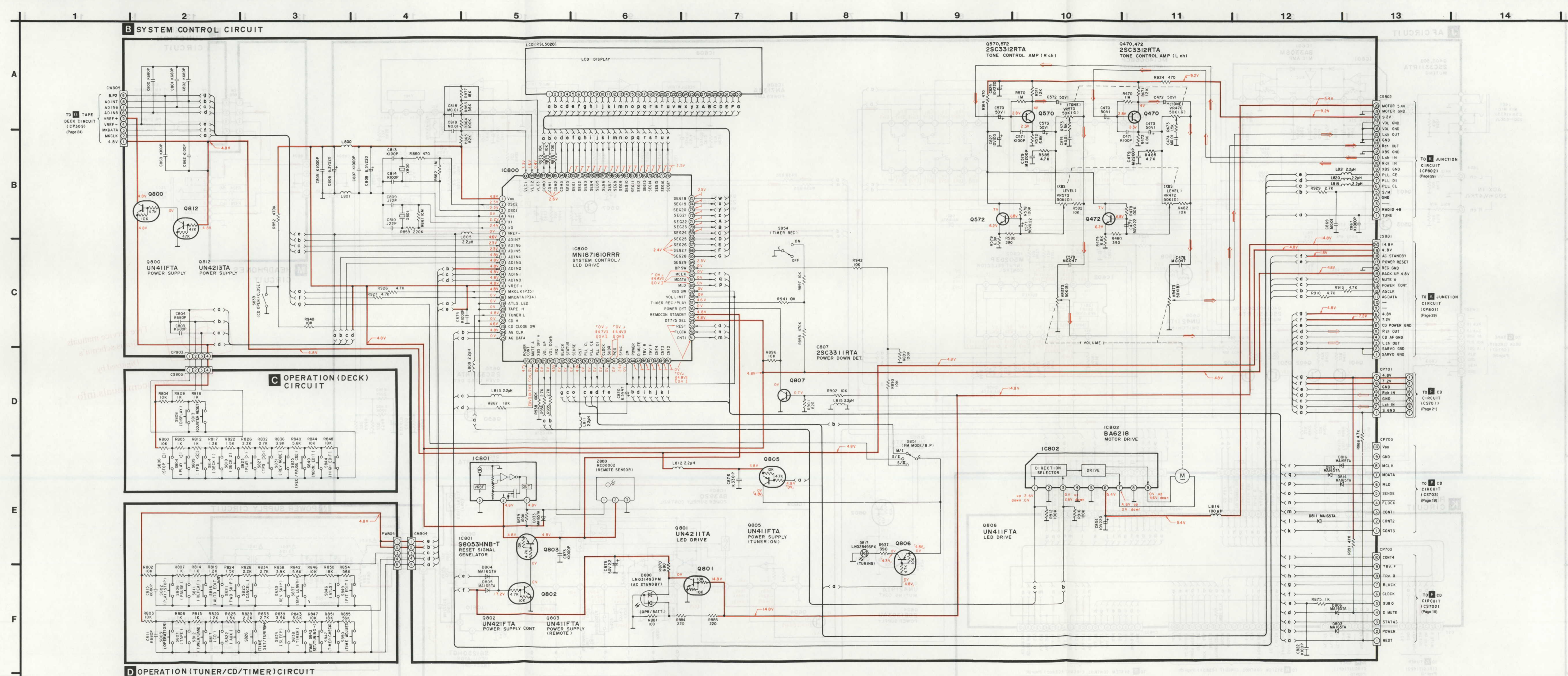
- DC voltage measurements are taken with electronics voltmeter.
- The negative terminal of the battery provides negative meter connection point.

No mark...TAPE PLAYBACK (DECK 2) []...TAPE RECORDING << >>...HIGH SPEED EDITING
(())...CD []...TUNER []...AUX

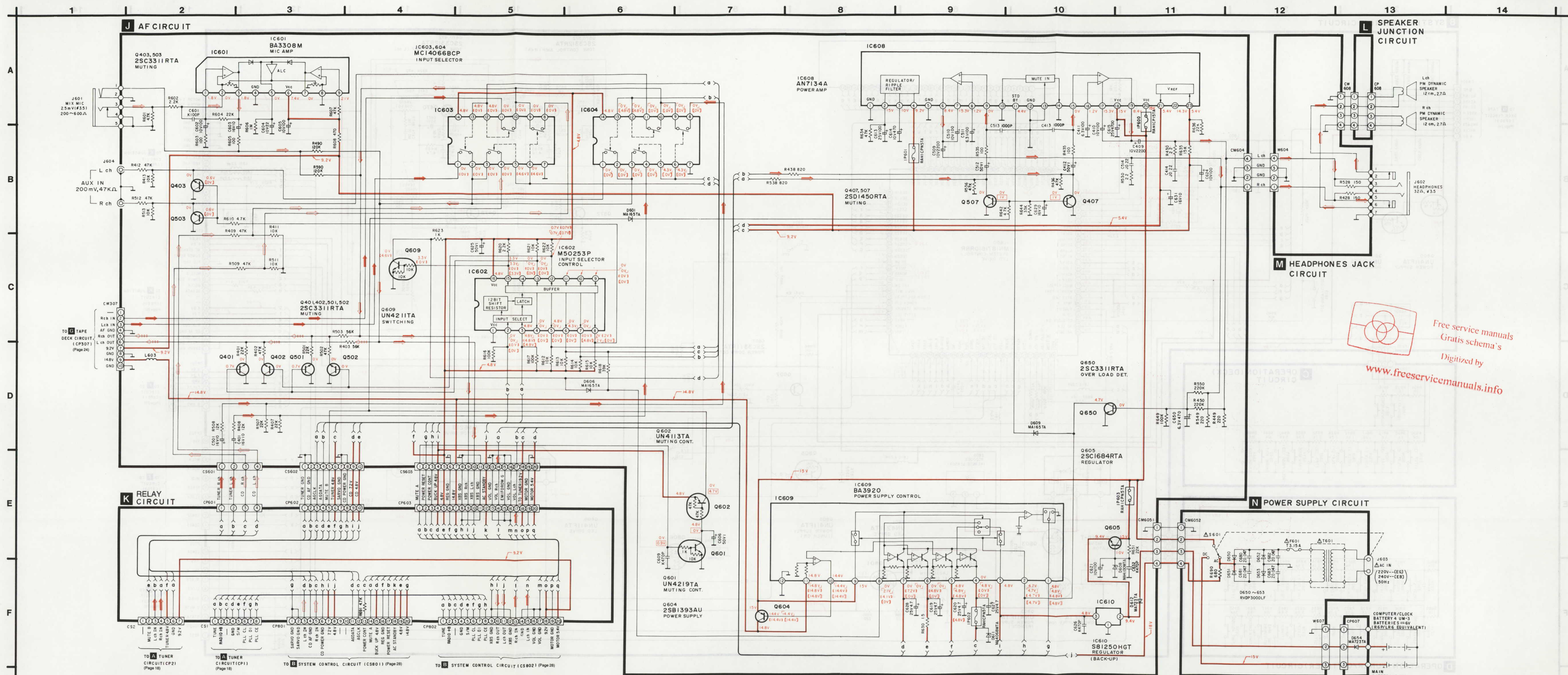
•This schematic diagram may be modified at any time with the development of new technology.

➡ : MAIN SIGNAL LINE ➡ : TAPE PLAYBACK SIGNAL LINE
◻◻◻ : TAPE RECORDING SIGNAL LINE — : +B LINE

SCHEMATIC DIAGRAM •SYSTEM CONTROL CIRCUIT (Parts list on pages 66~72)



SCHEMATIC DIAGRAM • AF CIRCUIT (Parts list on pages 66~72)



Notes:

- S600: AC/DC select switch in "AC" position.
- DC voltage measurements are taken with electronics voltmeter.
- The negative terminal of the battery provides negative meter connection point.

No mark...TAPE PLAYBACK (DECK 2) **...MUTING** **...TUNER**

Battery current:

Vol. min.	Vol. max.	XBS min.	XBS max.
195 mA (MW/LW)	840 mA	190 mA (FM)	1050 mA (MW)
270 mA (TAPE PLAYBACK)	790 mA	270 mA (TAPE PLAYBACK)	950 mA (LW)
	1400 mA		1510 mA (FM)
	1380 mA		1560 mA (TAPE PLAYBACK)
	1550 mA		1760 mA (TAPE EDIT)
	1780 mA		1790 mA (CD)

Measurement instruction

(MW/LW: 74 dB/m, 30% Mod.)	TAPE: 315 Hz, 0 dB
FM: 60 dB, 30% Mod.	CD: 1 kHz, 0 dB

Important safety notice.

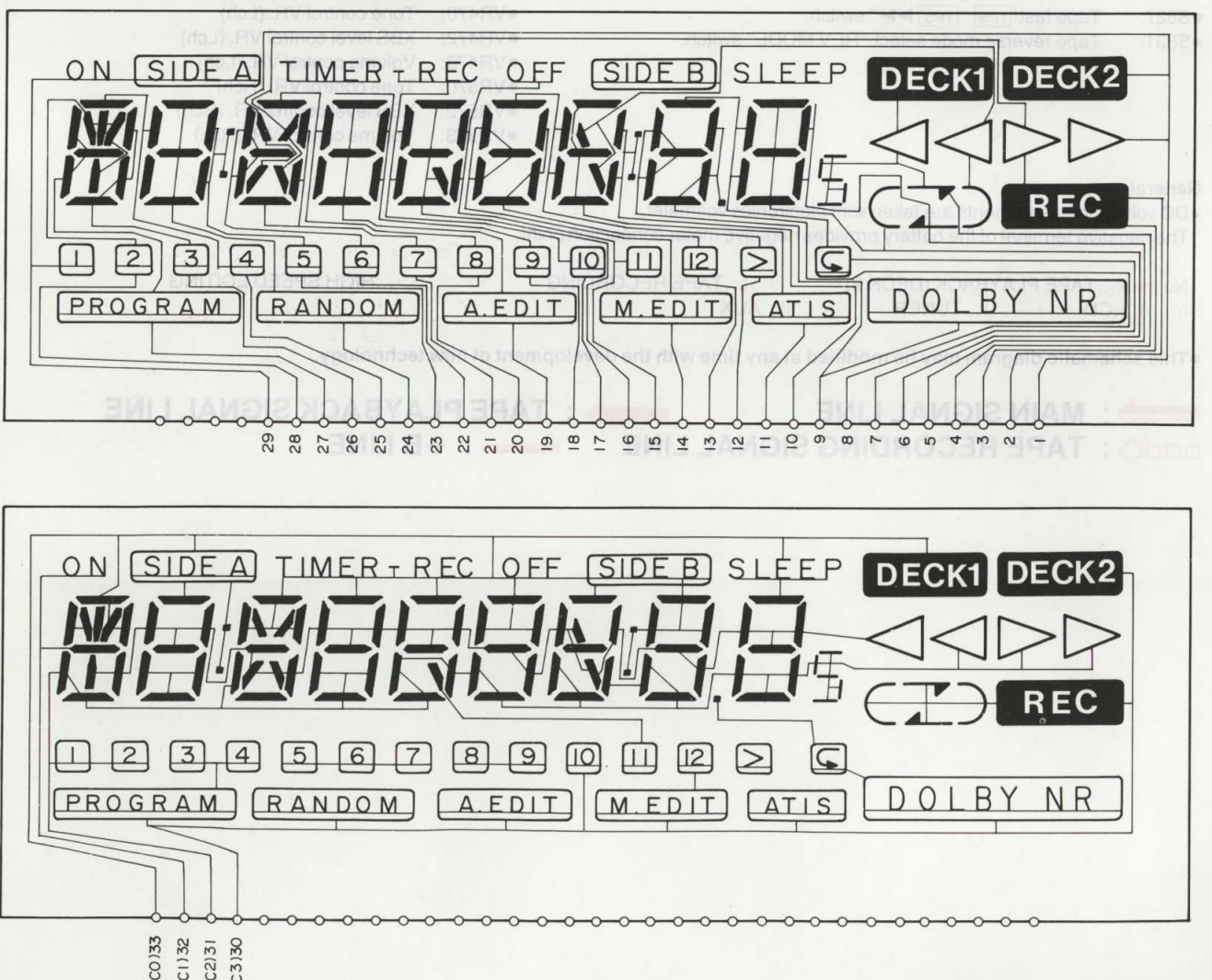
Components identified by **A** mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

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

Legend:

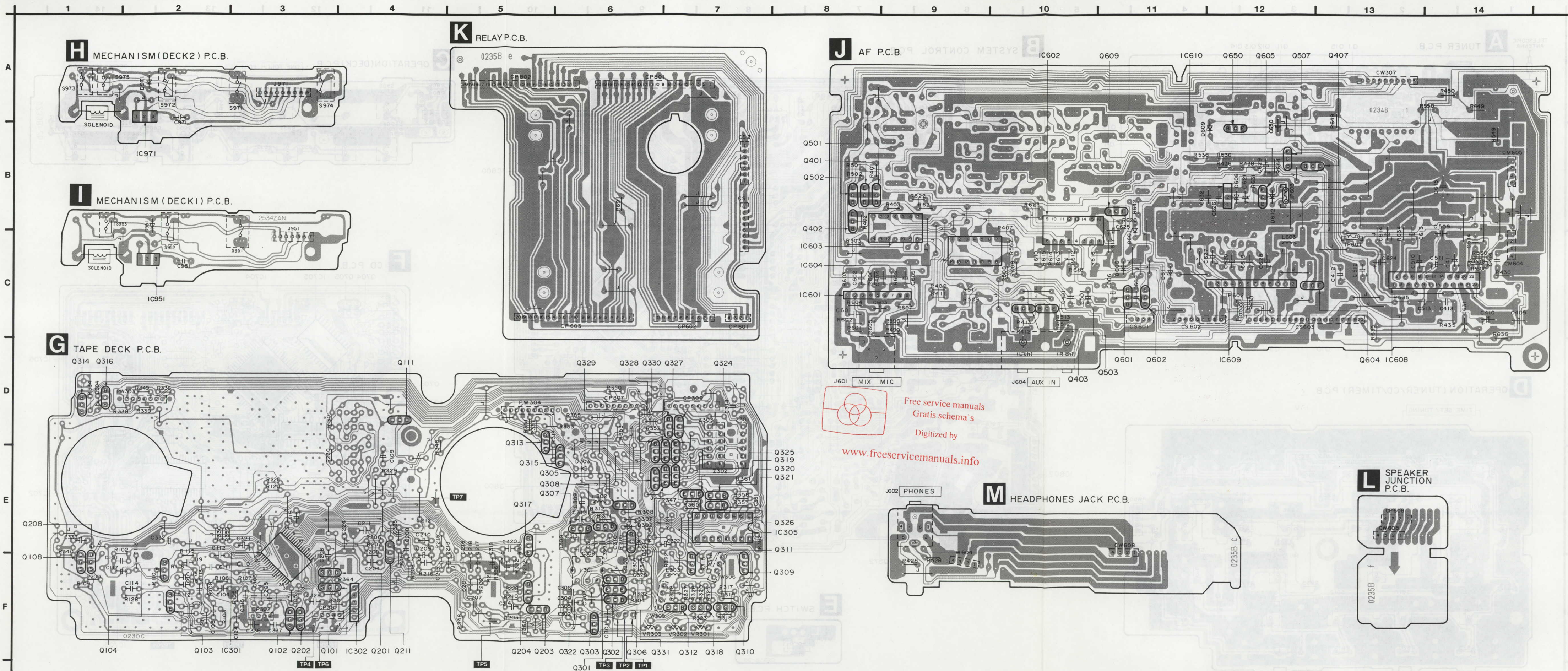
- FM/LW/MW SIGNAL LINE
- RECORD SIGNAL LINE
- TAPE PLAYBACK SIGNAL LINE
- MAIN SIGNAL LINE
- MIC SIGNAL LINE
- CD SIGNAL LINE
- +B LINE

DESCRIPTION OF FL PANEL



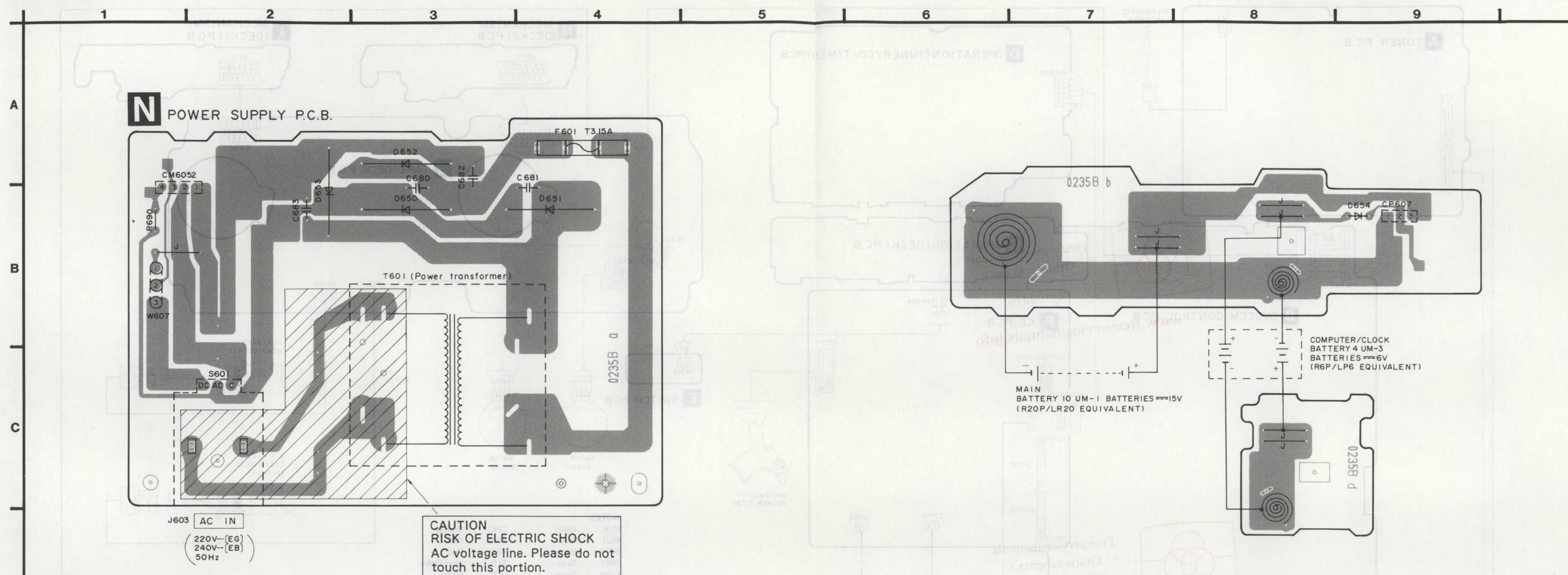


CIRCUIT BOARD DIAGRAM



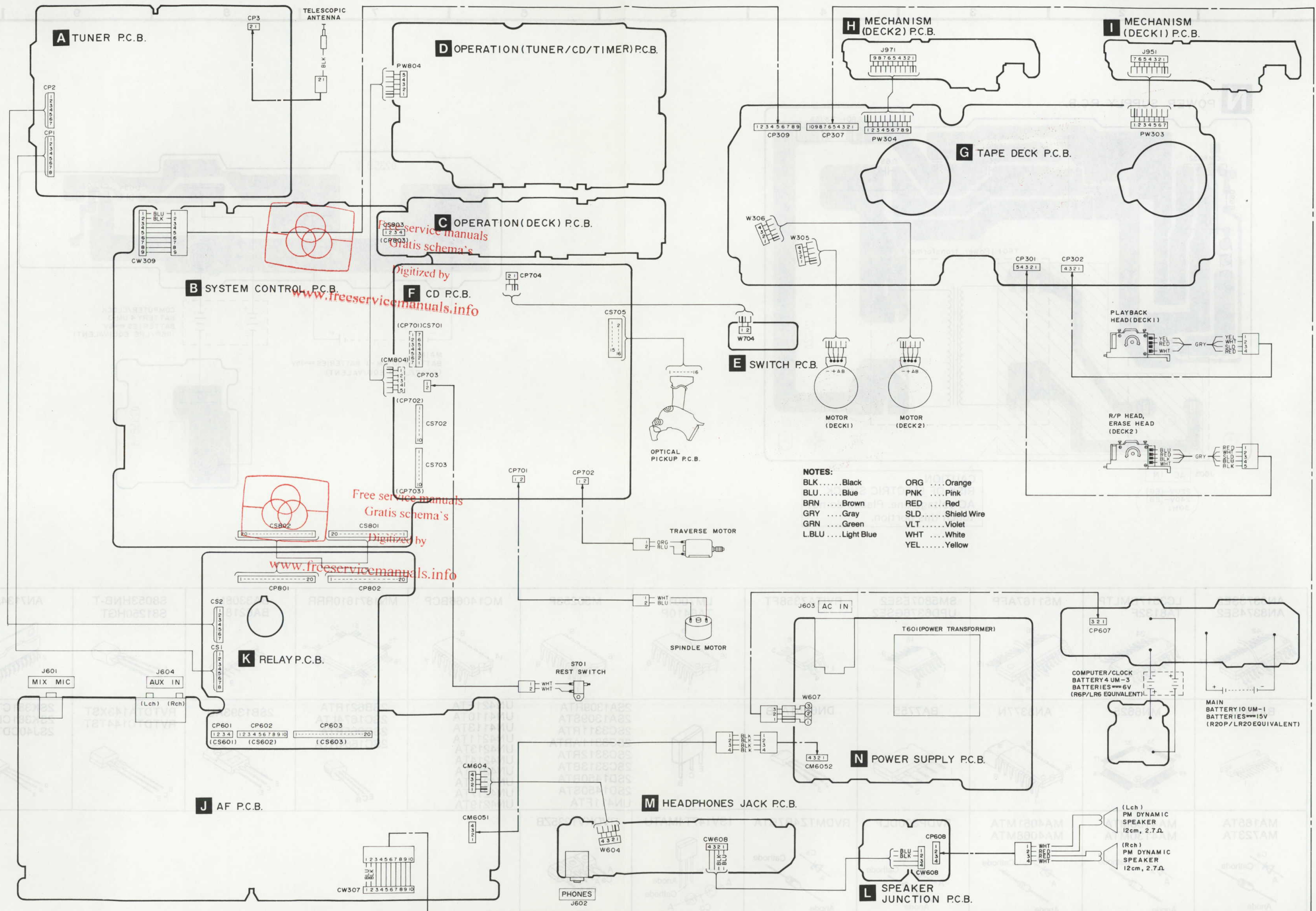
Free service manuals
Gratis schema's
Digitized by
www.freemove.com

CIRCUIT BOARD DIAGRAM

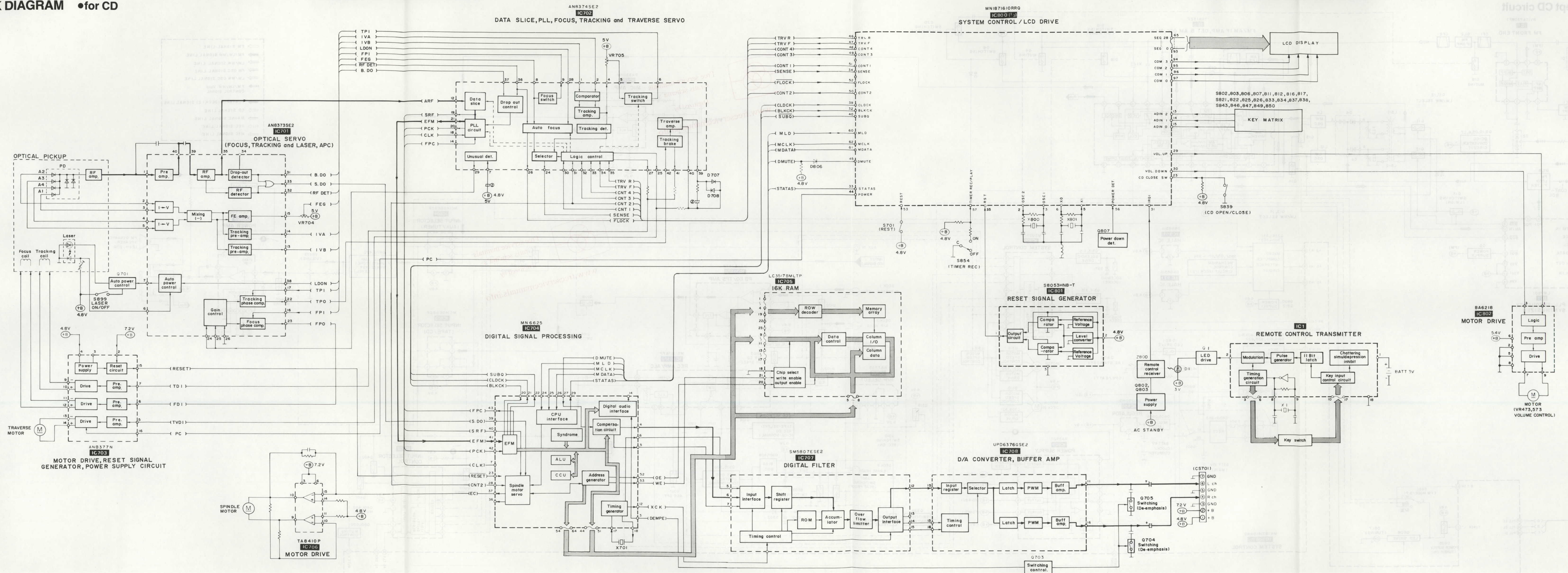


AN8373SE2 AN8374SE2 	LC3517BMLTP TA8132F 	M51167AFP 	SM5807ESE2 UPD6376GSE2 	RVITA7358FT 	LM7001 TA8410P 	M50253P 	MC14066BCP 	MN1871610RRR 	BA3308M BA6218 	S8053HNB-T S81250HGT 	AN7134A
BA3920 	MN6625 	AN8377N 	BA7755 	DN6851ALB 		2SA1309RTA 2SA1309STA 2SC3311RTA 2SC3311ARTA 2SC3312RTA 2SC3313BTA 2SD1450RTA 2SD1450STA UN411FTA	UN421FTA UN4110TA UN4113TA UN4211TA UN4213TA UN4214TA UN4215TA UN4216TA UN4217TA UN4219TA	2SB621RTA 2SC1674LTA 2SD965RTA 2SC1684RTA 	2SB1393AU 	RVTDTA143XST RVTDTC144TST 	2SK381CTA 2SK381CDTA 2SJ40CDTA
MA165TA MA723TA 	MA4100MTA MA4130MTA 	MA4051MTA MA4068MTA 	RVDP300DLF 	RVDMTZ4R7BTA 	1SV147T4MATU 	RVDKV1235ZB 					

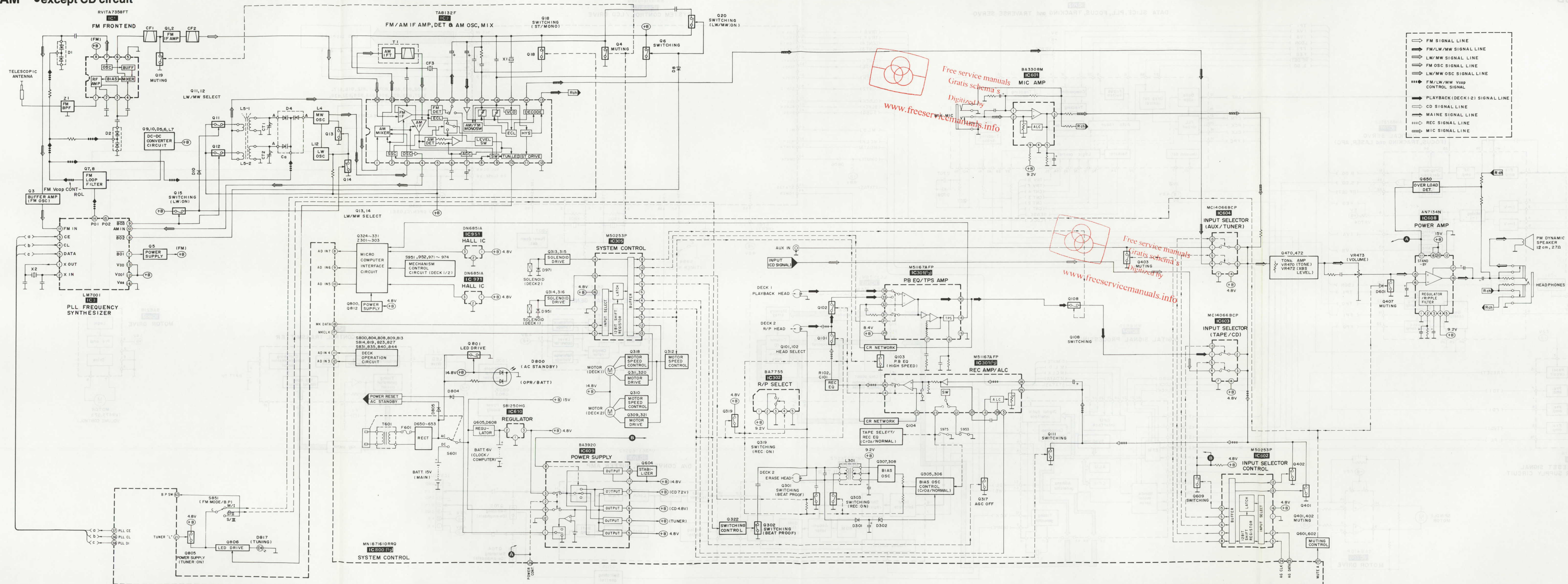
WIRING CONNECTION DIAGRAM



BLOCK DIAGRAM •for CD



BLOCK DIAGRAM •except CD circuit



USING THE EXTENSION CABLE WHEN CHECKING THE P.C.B.S

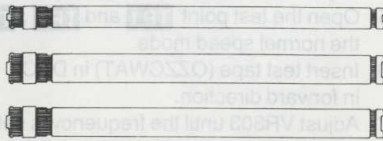
■ An extension cable is needed to check the operation P.C.B., tuner P.C.B. and CD section in MEASUREMENTS AND ADJUSTMENTS.
(See adjustment procedures for the CD section.)

Extension cable parts number: **RFKZXD7** (consisting of one set of 5 cables).

Components:

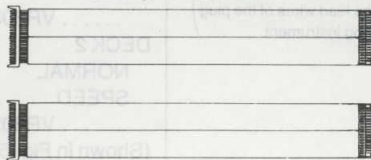
●to connect the CD P.C.B. and operation P.C.B.:

10-pin, 2 cables
7-pin, 1 cable



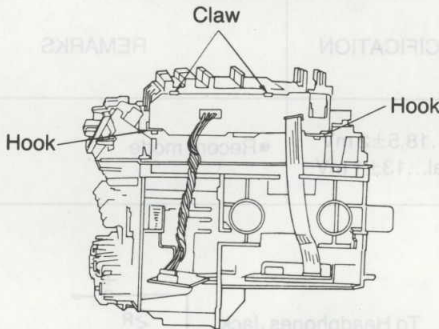
●to connect the operation P.C.B. and the relay P.C.B.:

20-pin, 2 cables

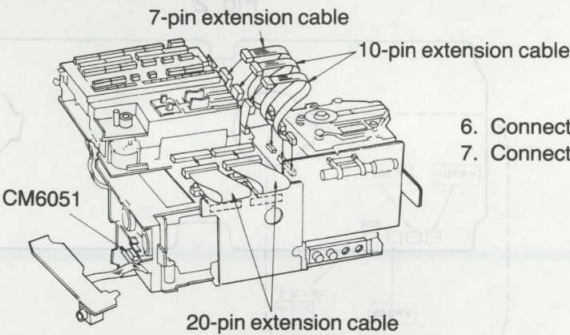


■ How to Connect the Wires to Check the Operation P.C.B.

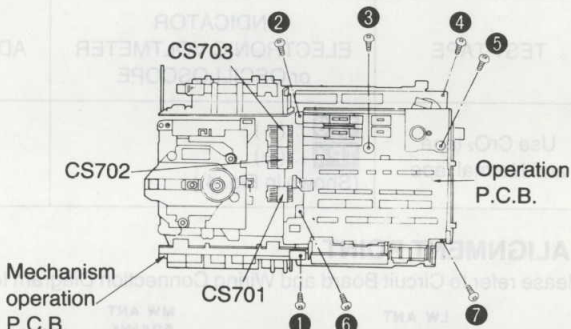
1. Remove the P.C.B. unit by following the disassembly instructions in Ref. No. 8 in the REMOVAL OF THE P.C.B. UNIT. (See p. 11.)



2. Remove two claws and two hooks and then the headphones jack P.C.B.
●Do not disconnect connector CM604.
(for headphones jack output.)

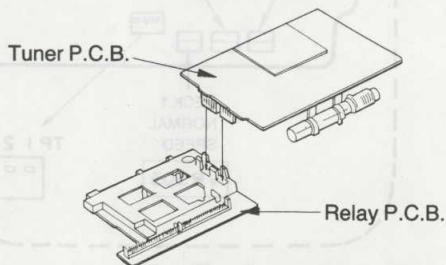


3. Remove three connectors (CS701, CS702 and CS703).
4. Remove seven screws (1~7).
5. Remove the operation P.C.B. together with the mechanism operation P.C.B.

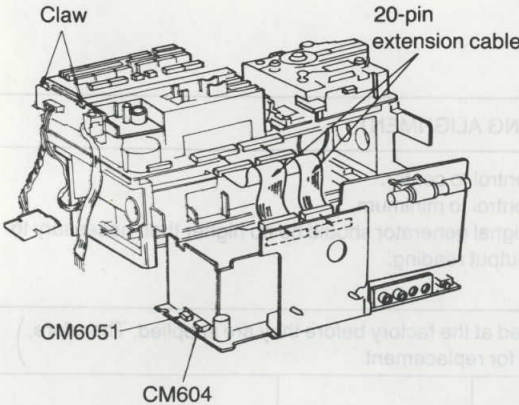
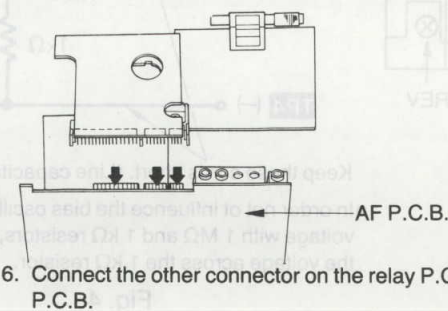


■ How to Connect the Wires to Check the Tuner P.C.B.

1. Remove the P.C.B. UNIT by following the disassembly instructions in Ref. No. 8 in the REMOVAL OF THE P.C.B. UNIT. (See p. 11.)
2. Remove the relay P.C.B. by following the disassembly instructions in Ref. No. 10 in REMOVAL OF THE RELAY P.C.B. (See p. 12.)
3. Remove the tuner P.C.B. by following the disassembly instructions in Ref. No. 11 in REMOVAL OF THE TUNER P.C.B. (See p. 12.)
4. Remove the AF P.C.B. by following the disassembly instructions in Ref. No. 21 in REMOVAL OF THE AF P.C.B. (See p. 14.)



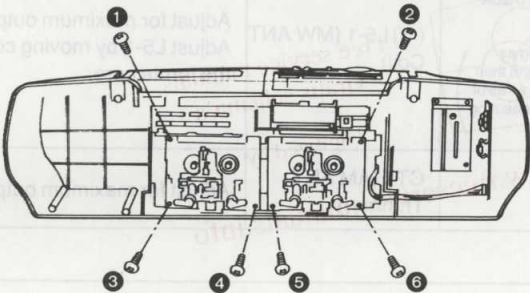
5. Connect the tuner P.C.B. and relay P.C.B.



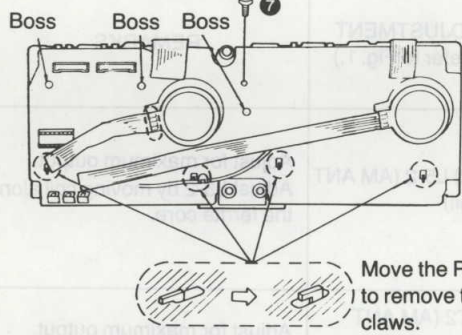
7. Use the 20-pin extension cable to connect the operation P.C.B. and the relay P.C.B.
8. Remove two claws and then the headphones jack.
9. Connect the flat cable from the headphones jack P.C.B. to CM604 (for headphones jack output).
10. Connect the connector from the power supply P.C.B. to CM6051.

■ Preparation for Checking the Tape Deck P.C.B.
(The extension cables are not required.)

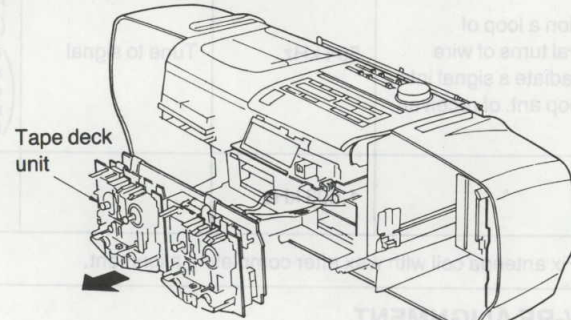
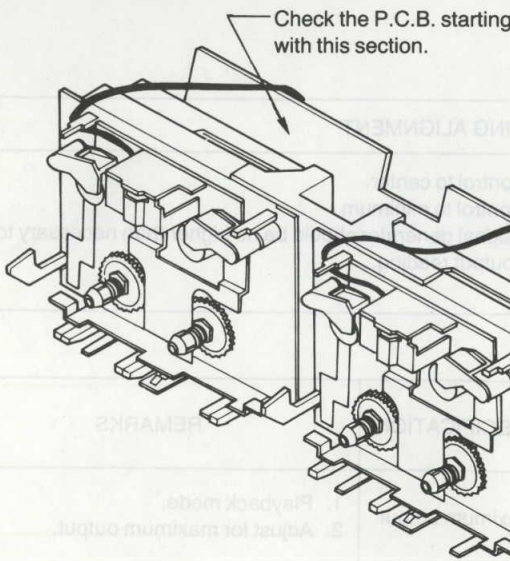
1. Remove the front cabinet by following the disassembly instructions in Ref. No. 2 in REMOVAL OF THE FRONT CABINET.



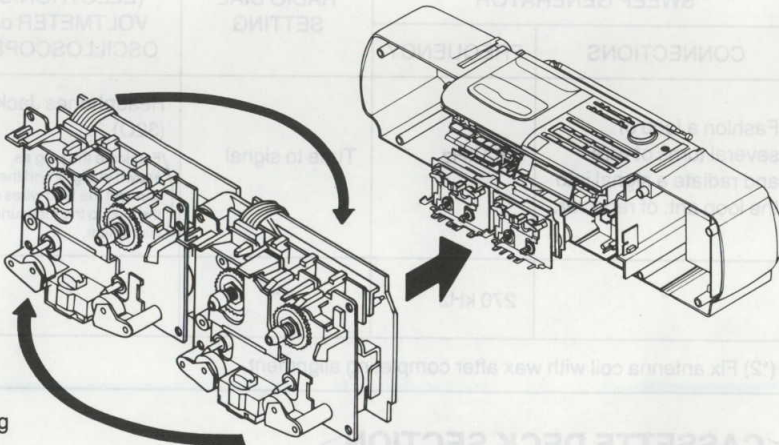
2. Remove six screws (1~6).



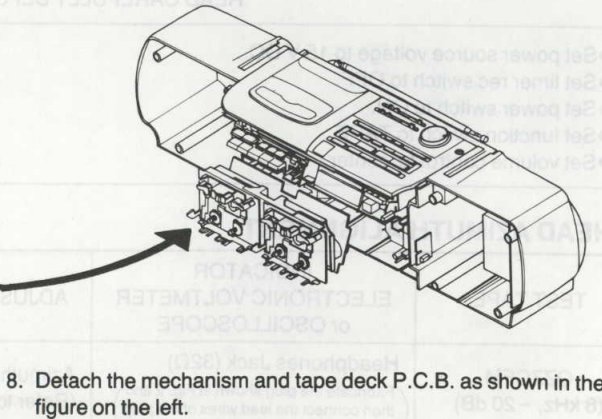
4. Remove one screw (7).
5. Remove three bosses.
6. Remove the claws by moving the P.C.B.



3. Remove the tape deck unit by pulling it to the front with the wires connected.



7. Turn the tape deck unit upside down.



8. Detach the mechanism and tape deck P.C.B. as shown in the figure on the left.

MEASUREMENTS AND ADJUSTMENTS

<TUNER SECTION>

■ ALIGNMENT INSTRUCTION

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT				
●Set power source voltage to 15 V DC. ●Set timer rec switch to OFF. ●Set power switch to ON. ●Set function switch to TUNER/MW or LW. ●Set volume control to center.		●Set tone control to center. ●Set XBS control to minimum. ●Output of signal generator should be no higher than necessary to obtain an output reading.		

■ MW-RF ALIGNMENT (The parts other than the ones listed below are aligned at the factory before they are supplied. Therefore, alignment of those parts is unnecessary when used for replacement.)

SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLT-METER or OSCILLOSCOPE)	ADJUSTMENT (Shown in Fig. 1.)	REMARKS
CONNECTIONS	FREQUENCY				
Fashion a loop of several turns of wire and radiate a signal into the loop ant. of receiver.	594 kHz	Tune to signal	Headphones Jack (32Ω) (Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument.)	(*) L5-1 (MW ANT Coil)	Adjust for maximum output. Adjust L5-1 by moving coil along the ferrite core.
"	1,503 kHz	"	"	CT1 (AM ANT Trimmer)	Adjust for maximum output.

(*) Fix antenna coil with wax after completing alignment.

■ LW-RF ALIGNMENT

SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLT-METER or OSCILLOSCOPE)	ADJUSTMENT (Refer to Fig. 1.)	REMARKS
CONNECTIONS	FREQUENCY				
Fashion a loop of several turns of wire and radiate a signal into the loop ant. of receiver.	162 kHz	Tune to signal	Headphones Jack (32Ω) (Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument.)	(*) L5-2 (AM ANT Coil)	Adjust for maximum output. Adjust L5-2 by moving coil along the ferrite core.
"	270 kHz	"	"	CT2 (AM ANT Trimmer)	Adjust for maximum output.

(*) Fix antenna coil with wax after completing alignment.

<CASSETTE DECK SECTION>

■ ALIGNMENT INSTRUCTION

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT				
●Set power source voltage to 15 V DC. ●Set timer rec switch to OFF. ●Set power switch to ON. ●Set function switch to TAPE. ●Set volume control to center.		●Set tone control to center. ●Set XBS control to minimum. ●Output of signal generator should be no higher than necessary to obtain an output point.		

■ HEAD AZIMUTH ALIGNMENT

TEST TAPE	INDICATOR ELECTRONIC VOLT-METER or OSCILLOSCOPE	ADJUSTMENT	SPECIFICATION	REMARKS
QZZCFM (8 kHz, -20 dB)	Headphones Jack (32Ω) (Fabricate the plug shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument.)	Azimuth Screw (Refer to Fig. 3.)	maximum output.	1. Playback mode. 2. Adjust for maximum output.

■ TAPE SPEED ALIGNMENT

TEST TAPE	INDICATOR ELECTRONIC VOLT-METER or OSCILLOSCOPE	ADJUSTMENT	REMARKS
QZZCWAT (3 kHz, -10 dB)	Headphones Jack (32Ω) (Fabricate the plug shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument.)	DECK 2 HIGH SPEED VR301 DECK 1 NORMAL SPEED VR303 DECK 2 NORMAL SPEED VR302 (Shown in Fig. 5.)	1. Short the test point TP1 and TP2, TP2 and TP3 to set the high speed mode. 2. Insert test tape (QZZCWAT) in DECK 1 and start playback in forward direction. ●This frequency is defined as F. 3. Insert test tape (QZZCWAT) in DECK 2 and start playback in forward direction. 4. Adjust VR301 until the frequency is set to F±40 Hz. 5. Open the test point TP1 and TP2, TP2 and TP3 to set the normal speed mode. 6. Insert test tape (QZZCWAT) in DECK 1 and start playback in forward direction. 7. Adjust VR303 until the frequency is set to 3000 ⁺²⁰ ₋₁₀ Hz. 8. Insert test tape (QZZCWAT) in DECK 2 and start playback in forward direction. 9. Adjust VR302 until the frequency is set to 3000 ⁺²⁰ ₋₁₀ Hz.

■ RECORD BIAS CHECK

TEST TAPE	INDICATOR ELECTRONIC VOLT-METER or OSCILLOSCOPE	ADJUSTMENT	SPECIFICATION	REMARKS
Use CrO ₂ tape and Normal tape	TP6 ... (+) TP4 ... (-) (Shown in Fig. 4.)	—	CrO ₂ ...18.5±2 mV Normal...13±1 mV	●Record mode

■ ALIGNMENT POINT

●Please refer to Circuit Board and Wiring Connection Diagram for test point locations.

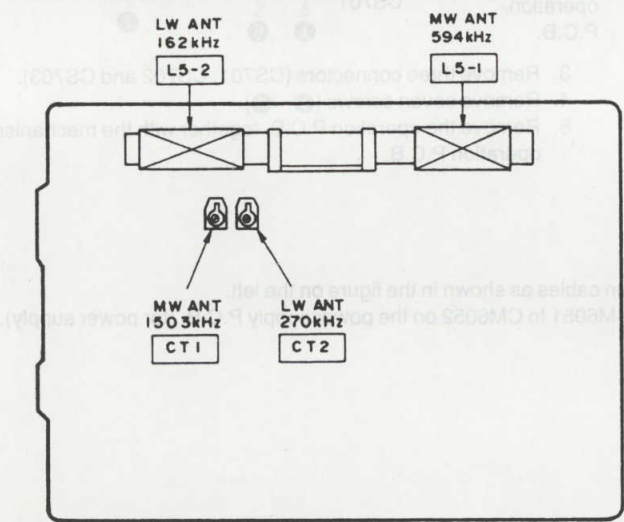


Fig. 1

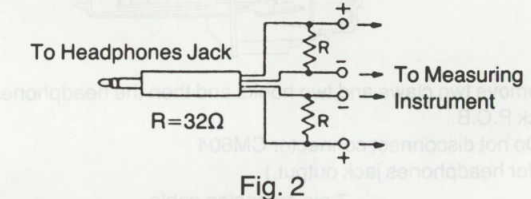


Fig. 2

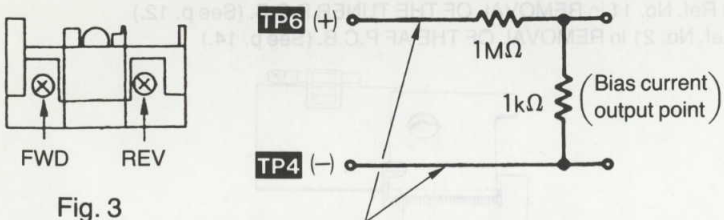


Fig. 3

Keep these cords short. (Line capacitance: 3 pF of less)
●In order not to influence the bias oscillation, divide the voltage with 1 MΩ and 1 kΩ resistors, and measure the voltage across the 1 kΩ resistor.

Fig. 4

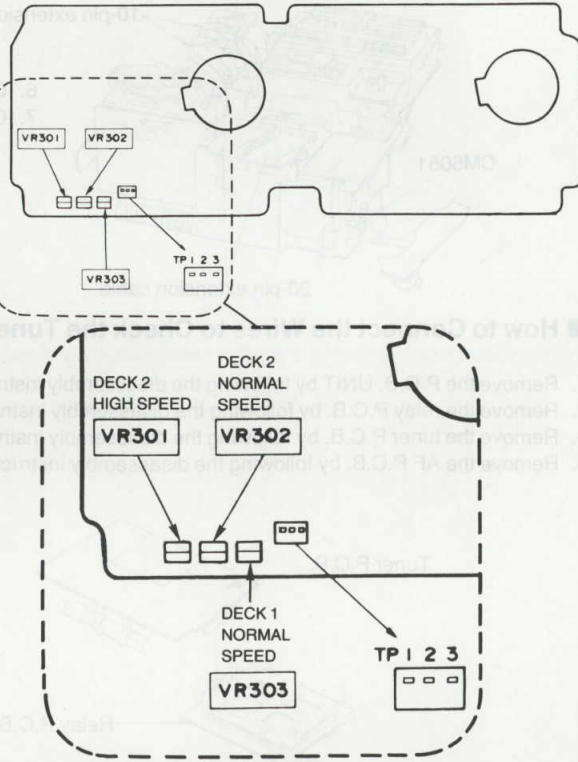


Fig. 5

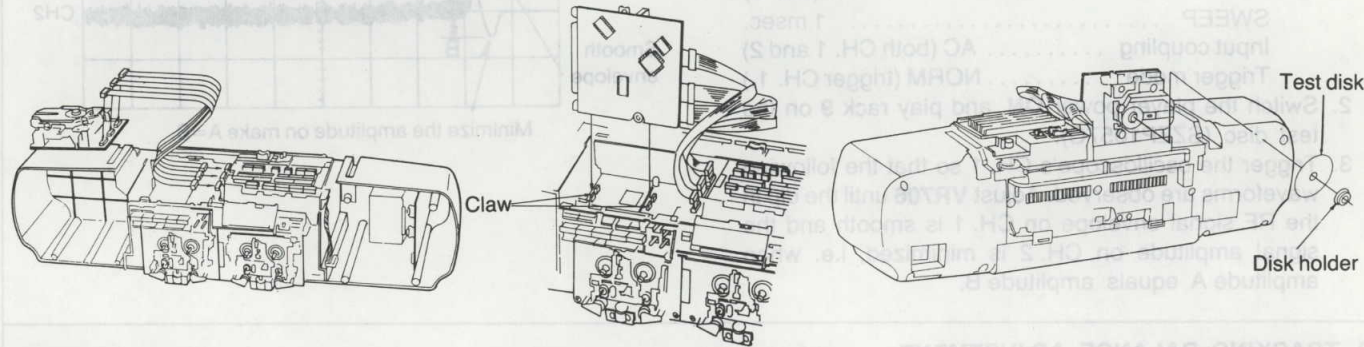
<CD SECTION>

Caution:

- It is very dangerous to look at or touch the laser beam. (Laser radiation is invisible.)
- With the unit turned "on", laser radiation is emitted from the pickup lens.
- Avoid exposure to the laser beam, especially when performing adjustments.

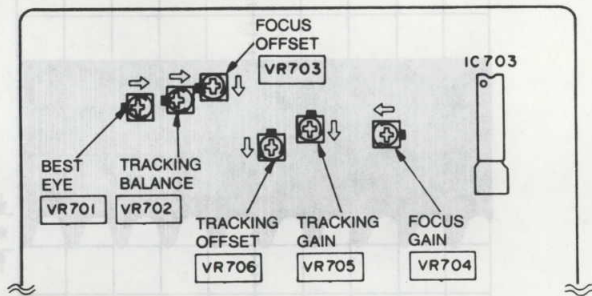
■ PREPARATION

1. Remove the CD UNIT by following the disassembly instructions in Ref. No. 6 in REMOVAL OF THE CD UNIT.
2. Remove the disc holder by following the disassembly instructions in Ref. No. 18 in REMOVAL OF THE DISC HOLDER.



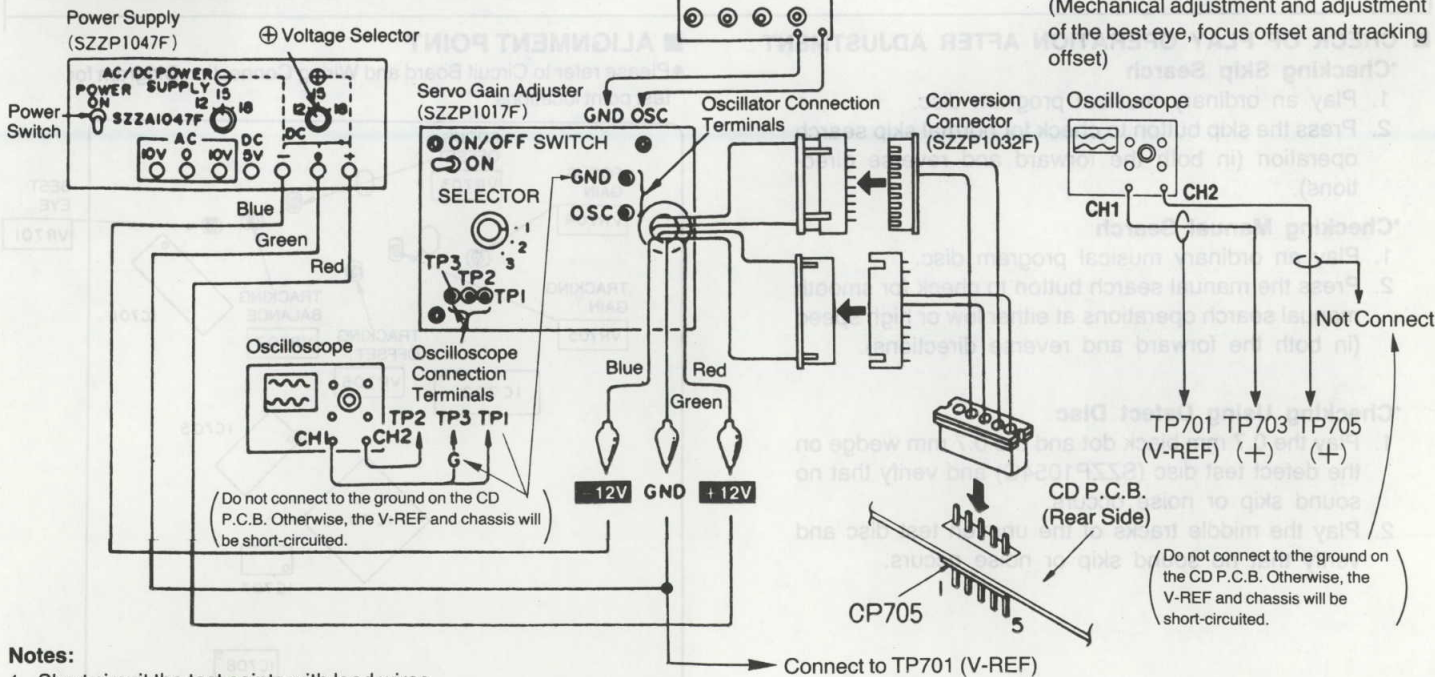
3. Connect the extension cable for the CD UNIT.
4. Temporarily engage the CD UNIT with the two claws on the chassis.
5. Bend the extension cable so that excessive pressure is not exerted to the CD P.C.B. connector.
6. Insert the test disk in the disk holder.

■ SETTING THE VR TEMPORARILY



- Rotating VR704 more than necessary stops the rotation of the turntable during focus gain adjustment. In this case, set the VR to its initial position and then resume the adjustment procedure. If you cannot determine the initial position, search for the position where the VR starts rotating by turning the VR slowly clockwise or counterclockwise from the mechanical center (arrows in the left figure) and then resume the adjustment procedure.
- If the VRs are fully rotated or replaced, set them to their initial position. If you do not know their initial position, set them to their center position and then resume the adjustment procedure.

■ CONNECTING THE SERVO GAIN ADJUSTER
(Tracking focus gain and tracking balance adjustment)



- Notes:**
1. Short circuit the test points with lead wires.
 2. Use V-REF (TP701) only for grounding for the adjustment of the CD.

Measuring Instruments and Special Tools

- Servo gain adjuster (SZZP1017F or SZZP1094C)
- Test discs
 1. Playability test disc (SZZP1054C or SZZP1014F)
 2. Uneven test disc (SZZP1056C)
 3. Black band test disc (SZZP1057C)
- Normal disc
- Dual-beam oscilloscope with bandwidth of 30 MHz or better (with EXT trigger and 1:1 probe).
- Audio frequency (AF) oscillator
- Conversion connector (SZZP1032F)
- Allen wrench (M2.0)

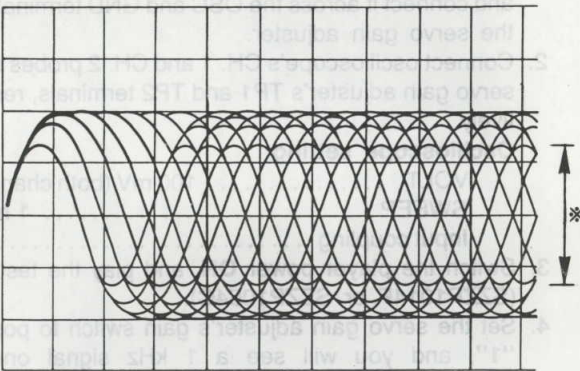
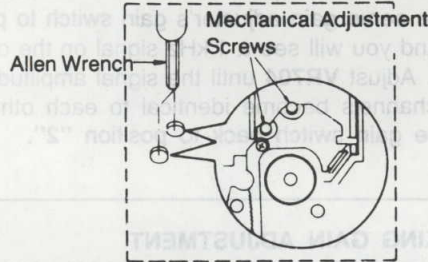
(1) MECHANICAL ADJUSTMENT

1. Connect the oscilloscope's CH. 1 probe across TP703 (+) and TP701 (V-REF) on the Servo P.C.B.

Oscilloscope setting:

VOLT 200 mV
SWEEP 0.5 μ sec
Input coupling AC

2. Switch the player power ON, and play track 9 on the test disc (SZZP1056C).
3. Leave the player in Play mode and place it as shown in the figure on the right.
4. Alternately adjust the two mechanical adjusting screws with the 2.0 mm allen wrench until the RF signal amplitude variation on the oscilloscope is minimized.
5. After completing the adjustment, lock the mechanical adjustments with lock paint (RZZOL01).



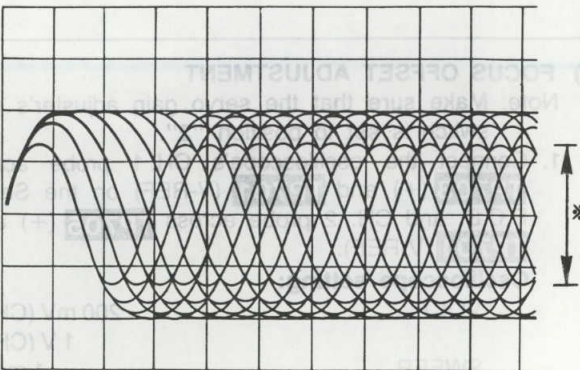
(2) BEST EYE (PD BALANCE) ADJUSTMENT

1. Connect the oscilloscope's CH.1 probe across TP703 (+) and TP701 (-) on the Servo P.C.B.

Oscilloscope setting:

VOLT 100 mV
SWEEP 0.5 μ sec
Input coupling AC

2. Switch the player power ON, and play the test disc (SZZP1014F or SZZP1054C).
3. Adjust VR701 until the RF signal eye pattern amplitude is maximized.



(3) FOCUS GAIN ADJUSTMENT

1. Connect the servo gain adjuster to the player (see page 55).
2. Set the servo gain adjuster's gain switch to position "3" and the ON/OFF switch to ON.
3. Set up the AF oscillator output for 1 kHz, 150 mVp-p, and connect it across the OSC and GND terminals on the servo gain adjuster.

4. Connect oscilloscope's CH. 1 and CH. 2 probes to the servo gain adjuster's TP1 and TP2 terminals, respectively

Oscilloscope setting:

VOLT 100 mV (both channels)
 SWEEP 1 msec.
 Input coupling AC

5. Play the test disc (SZZP1014F or SZZP1054C).
6. Set the servo gain adjuster's gain switch to position "3", and you will see a 1 kHz signal on the oscilloscope. Adjust VR704 until the signal amplitudes on both channels become identical to each other.
7. Set the gain switch back to position "2".



*Adjust VR704 until a equals b.

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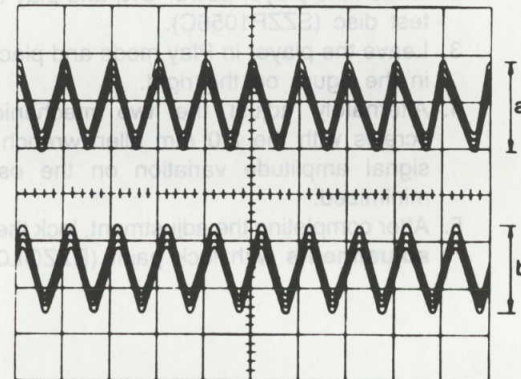
(4) TRACKING GAIN ADJUSTMENT

1. Set up the AF oscillator output for 1 kHz, 150 mVp-p, and connect it across the OSC and GND terminals on the servo gain adjuster.
2. Connect oscilloscope's CH. 1 and CH. 2 probes to the servo gain adjuster's TP1 and TP2 terminals, respectively

Oscilloscope setting:

VOLT 100 mV (both channels)
 SWEEP 1 msec.
 Input coupling AC

3. Switch the player power ON, and play the test disc (SZZP1014F or SZZP1054C).
4. Set the servo gain adjuster's gain switch to position "1", and you will see a 1 kHz signal on the oscilloscope. Adjust VR705 until the signal amplitudes on both channels become identical to each other.
5. Set the gain switch back to position "2".



*Adjust VR705 until a equals b.

(5) FOCUS OFFSET ADJUSTMENT

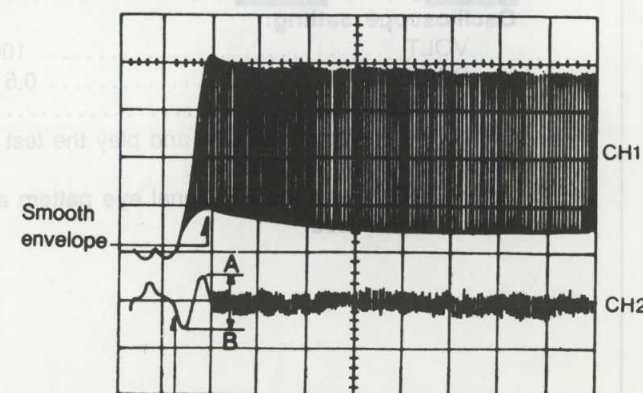
Note: Make sure that the servo gain adjuster's gain switch is set to position "2".

1. Connect the oscilloscope's CH. 1 probe across TP703 (+) and TP701 (V-REF) on the Servo P.C.B. and CH. 2 probe across TP705 (+) and TP701 (V-REF).

Oscilloscope setting:

VOLT 200 mV (CH. 1)
 1 V (CH. 2)
 SWEEP 1 msec.
 Input coupling AC (both CH. 1 and 2)
 Trigger mode NORM (trigger CH. 1)

2. Switch the player power ON, and play the 9 on the test disc (SZZP1057C).
3. Trigger the oscilloscope's CH. 1 so that the following waveforms are observed. Adjust VR703 until the dip in the RF signal envelope on CH. 1 is smooth and the signal amplitude on CH. 2 is minimized, i.e. when amplitude A equals amplitude B.



Minimize the amplitude on make A=B.

(6) TRACKING OF OFFSET ADJUSTMENT

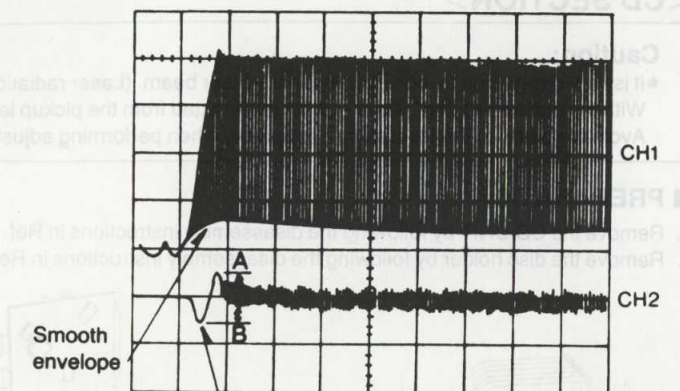
Note: Make sure that the servo gain adjuster's gain switch is set to position "2".

1. Connect the oscilloscope's CH. 1 probe across TP703 (+) and TP701 (V-REF) on the Servo P.C.B. and CH. 2 probe across TP704 (+) and TP701 (V-REF).

Oscilloscope setting:

VOLT 200 mV (CH. 1)
 1 V (CH. 2)
 SWEEP 1 msec.
 Input coupling AC (both CH. 1 and 2)
 Trigger mode NORM (trigger CH. 1.)

2. Switch the player power ON, and play rack 9 on the test disc (SZZP1057C).
3. Trigger the oscilloscope's CH. 1 so that the following waveforms are observed. Adjust VR706 until the dip in the RF signal envelope on CH. 1 is smooth and the signal amplitude on CH. 2 is minimized, i.e. when amplitude A equals amplitude B.



Minimize the amplitude on make A=B.

(7) TRACKING BALANCE ADJUSTMENT

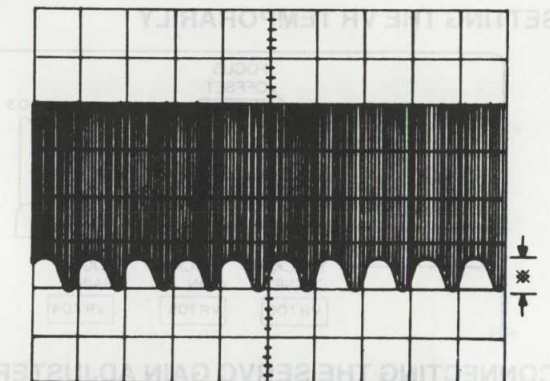
1. Make sure that servo gain adjuster's gain switch is set to position "2".
2. Set up the AF oscillator output for 1 kHz, 150 mVp-p, and connect it across the OSC and GND terminals on the servo gain adjuster.
3. Connect oscilloscope's CH. 1 probe across TP703 (+) and TP701 (V-REF) on the Servo P.C.B. and CH. 2 probe (+) to the OSC terminal on the servo gain adjuster.

Oscilloscope setting:

VOFLT 100 mV (CH. 1)
 SWEEP 1 msec.
 Input coupling AC (both CH. 1 and 2)
 Trigger mode NORM (trigger CH. 2)

4. Switch the player power ON, and play the test disc (SZZP1014F or SZZP1054C).

5. Adjust the VR702 so that the section of the output of the waveform marked with * is balanced.
6. Disconnect the servo gain adjuster's leads from the player.



This section of the waveform must be balanced.

■ CHECK OF PLAY OPERATION AFTER ADJUSTMENT***Checking Skip Search**

1. Play an ordinary musical program disc.
2. Press the skip button to check for normal skip search operation (in both the forward and reverse directions).

***Checking Manual Search**

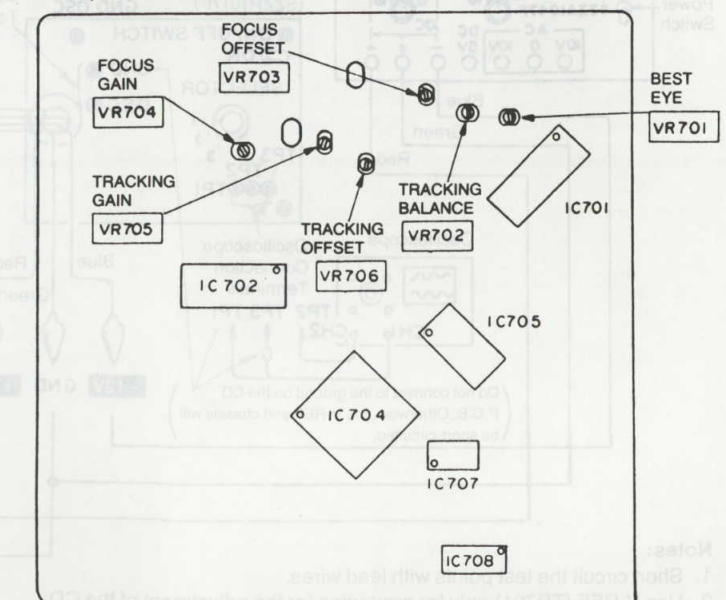
1. Play an ordinary musical program disc.
2. Press the manual search button to check for smooth manual search operations at either low or high speed (in both the forward and reverse directions).

***Checking Using Defect Disc**

1. Play the 0.7 mm black dot and the 0.7 mm wedge on the defect test disc (SZZP1054C) and verify that no sound skip or noise occurs.
2. Play the middle tracks of the uneven test disc and verify that no sound skip or noise occurs.

■ ALIGNMENT POINT

- Please refer to Circuit Board and Wiring Connection Diagram for test point locations.



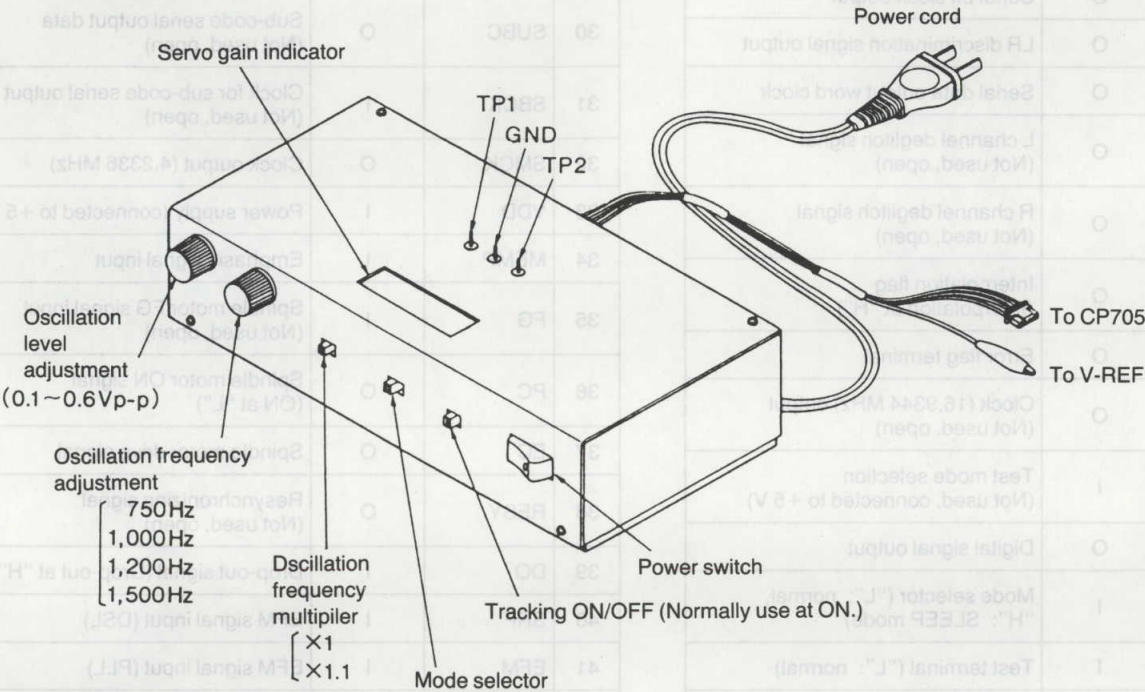
NEW SERVO GAIN ADJUSTER (Servo Amp. Adjusting Fixture)

The following introduces the improved version of the current servo gain adjuster (SZZP1017F):

Part number: SZZP1094C

Features:

- (1) Contains all oscillation frequencies and output adjustments needed for focus servo gain, tracking servo gain, and tracking balance adjustment (requires no external oscillator).
- (2) Panel indicators indicate the best points of focus and tracking servo gains (no oscilloscope needed).
- (3) Internal power supply eliminates the need for power supply from the CD player.



FUNCTION OF IC TERMINALS

IC305 (M50253P): System control

Pin No.	Mark	Function			
1	GND	GND			
2	DATA	Deck control data input			
3	CLK	Deck control clock input			
4	TAPE L	Function select (at "TAPE" position)			
		CD	TAPE	TUNER	AUX
		"HIGH"	"LOW"	"HIGH"	"HIGH"
5	HI SP	High speed editing control "HIGH"...High speed "Low"...Normal speed			
6	DOLBY	Not used			
7	BP H	Beat proof control signal output			
8	DMT	Deck muting control signal output			

Pin No.	Mark	Function
9	AGC OFF	AGC OFF control signal output at ATLS position
10	1H	Playback head select signal output "HIGH"...DECK 1 "LOW"...DECK 2
11	REC	Recording control signal output "HIGH"... "LOW"...
12	2M	DECK 2 motor control signal output "LOW"...Motor driven
13	1M	DECK 1 motor control signal output "LOW"...Motor driven
14	2PL	DECK 2 plunger control signal output "LOW"...Plunger: ON
15	1PL	DECK 1 plunger control signal output "LOW"...Plunger: ON
16	VCC	+5 V

IC602 (M50253P): Input select control

Pin No.	Mark	Function																														
1	GND	GND																														
2	DATA	Function select data signal input																														
3	CLK	Function clock data signal input																														
4	CD H	Function control signal output																														
5	TAPE H	<table><tr><th>Pin No.</th><th>CD</th><th>TAPE</th><th>TUNER</th><th>AUX</th></tr><tr><td>4</td><td>H</td><td>L</td><td>L</td><td>L</td></tr><tr><td>5</td><td>L</td><td>H</td><td>L</td><td>L</td></tr><tr><td>6</td><td>L</td><td>L</td><td>H</td><td>L</td></tr><tr><td>7</td><td>L</td><td>L</td><td>L</td><td>H</td></tr><tr><td>8</td><td>H</td><td>H</td><td>H</td><td>L</td></tr></table>	Pin No.	CD	TAPE	TUNER	AUX	4	H	L	L	L	5	L	H	L	L	6	L	L	H	L	7	L	L	L	H	8	H	H	H	L
Pin No.	CD	TAPE	TUNER	AUX																												
4	H	L	L	L																												
5	L	H	L	L																												
6	L	L	H	L																												
7	L	L	L	H																												
8	H	H	H	L																												
6	TUNER H																															
7	AUX H																															
8	AUX L																															

IC701 (AN8373S): Servo amp.

Pin No.	Mark	I/O Division	Function
1	AMP1	I	RF signal input (×30 amp.)
2	PDAD	I	Photo detector current input (A2)
3	PDA	I	Photo detector current input (A1)
4	PDBD	I	Photo detector current input (A4)
5	PDB	I	Photo detector current input (A3)
6	LPD	I	Non-inverting laser power input
7	LD	O	Laser power auto control output
8	FBL1	I	PD balance adjustment
9	FBL2	I	
10	TBL1	I	Tracking balance adjustment
11	TBL2	I	
12	FOOFS	I	Focus offset adjustment
13	IVA	O	Current/voltage conversion output (A)
14	IVB	O	Current/voltage conversion output (B)
15	FE	O	Focus gain adjustment output
16	FPI	I	Focus error signal input
17	TPI	I	Tracking error signal input
18	C. TPL	I	Tracking error filter capacitor input
19	C. TPH	I	
20	C. FPL	I	Focus error filter capacitor input
21	C. FPH	I	

Pin No.	Mark	Function															
9	ATT10	Not used															
10	ATT11																
11	ATT12																
12	ATT0	ATLS position															
13	ATT1	<table><tr><th>Pin No.</th><th>+3 dB</th><th>0 dB</th><th>-3 dB</th><th>-6 dB</th></tr><tr><td>12</td><td>L</td><td>H</td><td>L</td><td>H</td></tr><tr><td>13</td><td>L</td><td>L</td><td>H</td><td>H</td></tr></table>	Pin No.	+3 dB	0 dB	-3 dB	-6 dB	12	L	H	L	H	13	L	L	H	H
		Pin No.	+3 dB	0 dB	-3 dB	-6 dB											
		12	L	H	L	H											
13	L	L	H	H													
14	ATLS LED	Not used															
15	CD L	CD out terminal muting control signal output															
16	VDD	+5 V															

Pin No.	Mark	I/O Division	Function
22	TPO	O	Tracking error signal output
23	FPO	O	Focus error signal output
24	FGC	I	Focus gain up signal input (Not used, connected to GND)
25	TGC	I	Tracking gain up signal input (Not used, connected to GND)
26	GD	I	Focus/tracking gain down signal input (Not used, connected to GND)
27	PTO	O	Position detecting amp. output
28	PTI	I	Position detecting amp. input
29	PBO	O	Position detecting buffer output
30	POT	I	Position detecting buffer input
31	BDO	O	Dropout detection output
32	RFDET	O	RF detections signal output
33	SDO	O	Dropout detection pulse output
34	C. SBDO	I	Dropout detecting capacitor input
35	ARF	O	RF signal output
36	C AGC	I	AGC detecting capacitor input
37	VCC	I	Power supply (+5 V input)
38	LDON	I	Laser power control input
39	RF IN	I	RF signal input
40	AMPO	O	RF signal output
41	VREF	O	Reference voltage output
42	GND	I	Ground terminal

●IC702 (AN8374S): Servo processor

Pin No.	Mark	I/O Division	Function
1	LSA	I	Phase difference input (A)
2	LSB	I	Phase difference input (B)
3	TEOFS	I	Tracking offset adjustment
4	TE	O	Tracking gain adjustment
5	TEG	I	
6	TE OUT	O	Tracking error signal output
7	TE BPF	I	Tracking error gain detecting filter (Not used, open)
8	FEG	I	Focus gain adjustment
9	FE OUT	O	Focus error signal output
10	CLW	O	Triangular wave oscillator capacitor input
11	VREF	I	Reference voltage input
12	ARF	I	RF signal input
13	CDSL	I	Data slice filter capacitor input
14	FPC	I	Frequency difference signal input
15	GND	I	Ground terminal
16	C. PLL	I	PLL loop filter constant
17	VSS	I	Ground terminal
18	CLK	I	Frequency pull-in clock signal (88.2 kHz) input
19	SRF	O	Sliced and digitized RF signal output
20	PCK	O	Clock output extracted from SRF
21	EFM	O	EFM signal output synchronous with PCK

Pin No.	Mark	I/O Division	Function
22	VDD	I	Power supply (+5 V input)
23	SPCNT	O	Track crossing speed control output (Not used, open)
24	SENSE	O	Selector output (track crossing state)
25	TRV	O	Traverse servo control output
26	FLOCK	O	Focus lock signal output
27	KICK	O	Track kick signal output
28	LDON	O	Laser power control output
29	VDET	O	Focus/tracking gain up output (Not used, open)
30	CNT1	I	Control input (FOON: Focus servo ON signal)
31	CNT2	I	Control input (TRON: Tracking servo ON signal)
32	CNT3	I	Control input [KICKF: Kick direction (forward) command]
33	CNT4	I	Control input [KICKR: Kick direction (reverse) command]
34	TRVF	I	Traverse forward command signal
35	TRVR	I	Traverse backward command signal
36	RFDET	I	RF detection signal input
37	BDO	I	Dropout detection input
38	VCC	I	Power supply (+5 V input)
39	TVPO	O	Traverse position detecting resistor/capacitor inputs
40	TVPI	O	
41	BROUT	I	Tracking drive control output
42	BRIN	I	Tracking error signal input

●IC703 (AN8377): BTL drive

Pin No.	Mark	I/O Division	Function
1	PVCC	I	Driver power supply (+8.9 input)
2	VCC	I	Power supply (+8.9 V input)
3	TB	O	External transistor base driving output
4	VMON	O	Voltage output
5	TVDI	I	Traverse error signal input
6	FDI	I	Focus error signal input
7	TDI	I	Tracking error signal input
8	VREF	I	Reference voltage input

Pin No.	Mark	I/O Division	Function
9	TD-	O	Inverting output of tracking driver
10	TD+	O	Non-inverting output of tracking driver
11	FD-	O	Inverting output of focus driver
12	FD+	O	Non-inverting output of focus driver
13	TVD-	O	Inverting output of traverse driver
14	TVD+	O	Non-inverting output of traverse driver
15	RESET	O	Reset signal output
16	PC	I	PC input (connect to GND)

●IC704 (MN6625): Digital signal processing

Pin No.	Mark	I/O Division	Function
1	BYTCK	O	Serial data byte clock (Not use, open)
2	LCLK	O	Crystal frame clock (Not use, open)
3	DEMPH	O	De-emphasis ON signal (de-emphasis ON at "H") (Not used, open)
4	SRDATA	O	Serial data output (MSB first)
5	SCK	O	Serial bit clock output
6	LRCK	O	LR discrimination signal output
7	WDCK	O	Serial data output word clock
8	LDG	O	L channel deglitch signal (Not used, open)
9	RDG	O	R channel deglitch signal (Not used, open)
10	IPFLAG	O	Interpolation flag (Interpolation at "H")
11	FLAG	O	Error flag terminal
12	XCK	O	Clock (16.9344 MHz) output (Not used, open)
13	TEST	I	Test mode selection (Not used, connected to +5 V)
14	TX	O	Digital signal output
15	SLEEP	I	Mode selector ("L": normal, "H": SLEEP mode)
16	CSEL	I	Test terminal ("L": normal)
17	X1	I	Clock input (16.9344 MHz)
18	X2	O	Clock output (16.9344 MHz) (Not used, open)
19	VSS	I	GND terminal
20	BLKCK	O	Sub-code block (Q data) clock (75 Hz)
21	CLDCK	O	Sub-code frame (Q data) clock (7.35 kHz)
22	SUBQ	O	Sub-code (Q data) output
23	RST	I	Reset signal input (reset at "L")
24	MLD	I	Command load signal input

Pin No.	Mark	I/O Division	Function
25	MCLK	I	Command clock signal input
26	MDATA	I	Command data input
27	DMUTE	I	Muting control
28	TRON	I	Tracking servo ON signal (tracking servo ON at "L")
29	STAT	O	Processing condition (CRC, CUE, CLVS, TT STOP, FCLV)
30	SUBC	O	Sub-code serial output data (Not used, open)
31	SBCK	I	Clock for sub-code serial output (Not used, open)
32	SMCK	O	Clock output (4.2336 MHz)
33	VDD	I	Power supply (connected to +5 V)
34	MEMP	I	Emphasis signal input
35	FG	I	Spindle motor FG signal input (Not used, open)
36	PC	O	Spindle motor ON signal (ON at "L")
37	EC	O	Spindle motor drive signal
38	RESY	O	Resynchronizing signal (Not used, open)
39	DO	I	Drop-out signal (Drop-out at "H")
40	SRF	I	EFM signal input (DSL)
41	EFM	I	EFM signal input (PLL)
42	PCK	I	PLL extract clock input (4.3218 MHz)
43	FPC	O	PLL frequency comparison signal
44 } 51 }	D7 } D0 }	I/O	16 K RAM data input/output
52	RAM/OE	O	16 K RAM OE signal
53	RAM/WE	O	16 K RAM WE signal
54 } 64 }	RAM/A0 } RAM/A10 }	O	16 K RAM address signal (RAMA0: LSB, RAMA10: MSB)

●IC704 (MN6617): Signal Process

Terminal No.	Terminal Symbol	I/O	Function
1	BLKCK	O	This terminal outputs a 75 Hz Clock signal of sub-code block (data Q).
2	CLDCK	O	This terminal outputs a 7.35 kHz clock signal of sub-code block (data Q).
3	SUBQ	O	This terminal outputs a signal of sub-code block (data Q).
4	CRC	—	—
5	RST	I	This is the terminal for resetting the system, e.g. when the unit is powered OFF, the circuit is reset by LOW level signals.
6	MLD	I	MCLK and MDAT signals are input to the terminal.
7	MCLK	I	This terminal receives 8 bit data reading clock signal.
8	MDATA	I	This IC receives a data signal input (8 bit) IC.
9	DMUTE	I	This terminal receives a "HI" level muting signal.
10	TRON	I	This terminal receives a tracking servo control signal. At a "LOW" level . . . the tracking servo is ON.
11	STAT	O	This terminal outputs data signals (CRL, STOP).
12	SMCK	O	This terminal outputs a clock signal of 4.2336 MHz.
13	PMCK	—	—
14	ITC	I	This is the track counter input terminal, but it is not used in this unit. It is connected to a +5 V power supply.
15	TEST	—	This is the test mode selection input terminal, but it is not used in this unit. It is connected to a +5 V power supply.
16	X2	O	These are the clock transmission terminals (16.9344 MHz).
17	X1	I	
18	SEL	I	This is the data output selection input terminal. At a "HI" level parallel data output. At a "LOW" level serial data output. "When connected, this unit is at a "HI" level.
19	LOG/WCKS	—	—
20	RDG	—	—
21	DEMPH	O	This is the de-emphasis control output terminal. At a "HI" level the de-emphasis control is set ON.
22	IPFLAG	—	—
23	FLAG0	—	—
24	FLAG6	—	—

●IC705 (LC3517BML): De Interleave

Pin No.	Mark	I/O Division	Function
1~8	A7~A0	I	Address input
9~11	D0~D2	I/O	Data in • out
12	VSS	—	Ground Connection
13~17	D3~D7	I/O	Data in • out

Terminal No.	Terminal Symbol	I/O	Function
25	XCK	O	This terminal outputs a clock signal of 16.93 MHz.
26	DA15	O	These terminals output L and R signals.
28	DA13		
31	GND	O	For ground connection.
32, 36	DA10	O	These terminals output L and R signals.
27	DA14	—	—
29	DA12		
30	DA11		
33~42	DA9~DA0		
43~50	D7~D0	I/O	These terminals output RAM data signals (16K).
51	RAMOE	O	This terminal outputs RAM OE control signals (16K).
52	RAMWE	O	This terminal outputs RAM WE control signals (16K).
53~63	RAMA0~RAMA10	O	These terminals output RAM address signals (16K).
64	PC	—	—
65	EC	O	This is the spindle motor control output terminal. The spindle motor operates at a "LOW" level.
66	FG	—	—
67	VCNT	—	For ground connection.
68	REXT		
69, 73	VDD	I	To be connected to a +5 V power supply.
70	PD	—	—
71	PCKO		
72	PCK	I	This is the PLL extraction clock input terminal (f=4.2336 MHz).
74	EFM	I	This terminal receives EFM input signals (PLL).
75	SRF	I	This terminal receives EFM input signals (DSL).
76	DO	I	This terminal receives a drop-out input signal. At a "HI" level drop-out comes into effect.
77	CLVS	—	—
78	FPC	O	This terminal outputs a frequency comparison signal.
79~83	—	—	For ground connection.
84	SBCK		

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●IC707 (SM5807ES): Digital Filter

Pin No.	Mark	I/O Division	Function
1	XT	I	Clock input
2	XT	—	—
3	CKSL	—	—
4	CKO	—	—
5	LRCL	I	Clock (44.1 kHz)
6	DIN	I	Serial data input
7	BCKIN	I	Serial input, Bit clock input
8	V _{ss}	—	Ground
9	SCSL	I	SCSL=H: System clock=192 fs SCSL=L: System clock=196 fs

●IC708 (UPD6372GSE2): D/A Converter

Pin No.	Mark	I/O Division	Function
1	NC	—	—
2	D. GND	—	Ground (DC)
3	D. V _{DD}	I	+B (DC)
4	D. V _{DD}		
5	A. GND	—	Ground (AC)
6	R. OUT	O	AF signal output (Rch)
7	A. V _{DD}	I	+B (AC)
8	A. V _{DD}		

●IC800 (MN1871610RRQ): System control

Pin No.	Mark	Function
1	VDD	+5 V
2	OSC1	Clock output (4 MHz)
3	OSC2	Clock input (4 MHz)
4	VSS	GND
5	XI	Clock input (32 kHz)
6	XO	Clock output (32 kHz)
7	VREF-	Reference voltage terminal (GND)
8	ADIN7	DECK2 front side record prevention tab detection "HIGH"...Recording is not possible "LOW"...Recording is possible
9	ADIN6	DECK 2 cassette tape insertion detection When a cassette tape has been inserted in DECK 2, S972 becomes active and a "LOW" level signal is input to this terminal to set the deck on standby.
10	ADIN5	DECK 1 cassette tape insertion detection When a cassette tape has been inserted in DECK 1, S952 becomes active and a "LOW" level signal is input to this terminal to set the deck on standby.

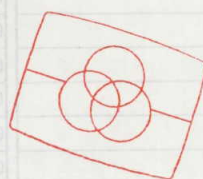
Pin No.	Mark	I/O Division	Function
10	DGR	O	Degrch signal (Rch) (176.4 kHz)
11	DGL	O	Degrch signal (Lch) (176.4 kHz)
12	DOUT	O	Serial data output
13	WDCK	O	Output control clock (352.8 kHz)
14	LRCO	O	Output control clock (176.4 kHz)
15	BCKO	O	Serial output, Bit clock (8.467 MHz or 8.6436 MHz)
16	V _{ss}	—	+B

Pin No.	Mark	I/O Division	Function
9	R. REF	I	Reference voltage input (Rch)
10	L. REF	I	Reference voltage input (Lch)
11	L. OUT	O	AF signal output (Lch)
12	A. GND	—	Ground (AC)
13	LRCK	I	Clock input
14	LRSEL	I	Ground
15	SI	I	Serial data input
16	CLK	I	Bit clock input

Pin No.	Mark	Function
11	ADIN4	Display select signal and counter reset signal input
12	ADIN3	Deck operation signal input
13	ADIN2	Not used (connect to VDD)
14	ADIN1	CD operation signal input
15	ADIN0	Operation signal input
16	VREF+	Reference voltage terminal (VDD)
17	MKCLK	Deck control clock output
18	MKDATA	Deck control data output
19	—	Not used
20	—	Not used
21	TUNER L	Tuner control signal output Tuner operation on: "LOW"
22	—	Not used
23	CD CLOSE	CD cover open/close detection signal input "HIGH"...Open "LOW"...Close
24	AGCLK	Mode select control clock signal output
25	AGDATA	Mode select control data output

Pin No.	Mark	Function									
26	POWER CONT	Power supply control signal output									
27	MUTE A	Audio circuit muting control signal output									
28	XBS OFF H	XBS control signal output "HIGH"...XBS OFF "LOW"...XBS ON									
29	VOL UP	Motor (for volume) control signal output									
30	VOL DOWN	<table border="1"> <tr> <th>Pin No.</th><th>Vol. Up</th><th>Vol. Down</th></tr> <tr> <td>29</td><td>"HIGH"</td><td>"LOW"</td></tr> <tr> <td>30</td><td>"LOW"</td><td>"HIGH"</td></tr> </table>	Pin No.	Vol. Up	Vol. Down	29	"HIGH"	"LOW"	30	"LOW"	"HIGH"
Pin No.	Vol. Up	Vol. Down									
29	"HIGH"	"LOW"									
30	"LOW"	"HIGH"									
31	RIMOCON IN	Remote control signal input									
32	BLKCK	CD sub code clock signal input									
33	STATUS	CD status signal input									
34	SENSE	CD sense signal input									
35	RST	Reset signal input									
36	PLL CL	PLL tuner clock signal output									
37	PLL CE	PLL tuner control signal output									
38	PLL DI	PLL tuner data output									
39	CLDCK	CD sub code clock input									
40	SUBQ	CD sub code clock input									
41	—	Not used									
42	—	Not used									
43	—	Not used									
44	POWER	CD signal process circuit power control									
45	MUTE H	CD muting signal output									
46	TRREV	Traverse "Reverse" command signal output									

Pin No.	Mark	Function
47	TRFWD	Traverse "Forward" command signal output
48	CNT4	Optical servo IC control output
49	CNT3	Optical servo IC control output
50	CNT2	Optical servo IC control output
51	CNT1	Optical servo IC control output
52	FLOCK	Optical servo focus lock input
53	REST	Rest switch (S701) signal input
54	—	GND
55	REMOCON STBY	Remote control sensor power control
56	POWER DET	Power supply circuit operation signal input
57	TIMER	Timer mode detection signal input
58	VOL LIMIT	Not used
59	XBS SW	Not used
60	MLD	CD signal process IC control signal output
61	MDATA	CD signal process IC control data output
62	MCLK	CD signal process IC control clock output
63	B.P	Beat proof switch signal input
64 } 93	SEG29 } SEG0	LCD segment signal output
94 } 97	COM3 } COM0	LCD common signal output
98	VLC3	LCD bias reference voltage input V3
99	VLC2	LCD bias reference voltage input V2
100	VLC1	LCD bias reference voltage input V1



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Notes : * Important safety notice:

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

* 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.

* Remote Control Ass'y:

Supply period for three years from termination of production.

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUIT(S)		Q111	RVTDC144TST	TRANSISTOR	
				Q201, 202	2SJ40CDTA	TRANSISTOR	
				Q203, 204	RVTDC144TST	TRANSISTOR	
IC1	RVITA7358FT	I. C, FM FRONT END		Q208	2SJ40CDTA	TRANSISTOR	
IC2	TA8132F	I. C, FM/AM IF AMP		Q211	RVTDC144TST	TRANSISTOR	
IC3	LM7001	I. C, PLL		Q301, 302	2SC3311ARTA	TRANSISTOR	
IC301	M51167AFP	I. C, HEAD SELECT		Q303	2SD1450STA	TRANSISTOR	
IC302	BA7755	I. C, R/P SELECT		Q305	UN4217TA	TRANSISTOR	
IC305	M50253P	I. C, SYSTEM CONTROL		Q306	2SC3311RTA	TRANSISTOR	
IC601	BA3308M	I. C, MIC AMP		Q307, 308	2SD1450STA	TRANSISTOR	
IC602	M50253P	I. C, INPUT SELECTOR		Q309	2SD965RTA	TRANSISTOR	
IC603, 604	MC14066BCP	I. C, INPUT SELECTOR		Q310	2SK381CDTA	TRANSISTOR	
IC608	AN7134A	I. C, POWER AMP		Q311	2SD965RTA	TRANSISTOR	
IC609	BA3920	I. C, POWER SUPPLY CONT.		Q312	RVTDC144TST	TRANSISTOR	
IC610	S81250HGT	I. C, REGULATOR		Q313, 314	2SB621RTA	TRANSISTOR	
IC701	AN8373SE2	I. C, CD SERVO SYSTEM		Q315, 316	UN4216TA	TRANSISTOR	
IC702	AN8374SE2	I. C, PWM DRIVE/PLL		Q317	RVTDC144TST	TRANSISTOR	
IC703	AN8377N	I. C, MOTOR DRIVE		Q318	2SK381CDTA	TRANSISTOR	
IC704	MN6625	I. C, SIGNAL PROCESS		Q319-321	UN411FTA	TRANSISTOR	
IC705	LC3517BMLTP	I. C, DE INTERLEAVE		Q322	UN4214TA	TRANSISTOR	
IC706	TA8410P	I. C, MOTOR DRIVE		Q324-328	2SC3311RTA	TRANSISTOR	
IC707	SM5807ESE2	I. C, DIGITAL FILTER		Q329	UN4215TA	TRANSISTOR	
IC708	UPD6376GSE2	I. C, D/A CONV. /BUFFER		Q330, 331	2SC3311RTA	TRANSISTOR	
IC800	MN187161ORRR	I. C, SYSTEM CONTROL		Q401-403	2SC3311RTA	TRANSISTOR	
IC801	S8053HNB-T	I. C, PRESET SIGNAL GENERATOR		Q407	2SD1450RTA	TRANSISTOR	
IC802	BA6218	I. C, MOTOR DRIVE		Q470	2SC3312RTA	TRANSISTOR	
IC951	DN6851ALB	I. C, HALL		Q472	2SC3312RTA	TRANSISTOR	
IC971	DN6851ALB	I. C, HALL		Q501-503	2SC3311RTA	TRANSISTOR	
		TRANSISTOR(S)		Q507	2SD1450RTA	TRANSISTOR	
				Q570	2SC3312RTA	TRANSISTOR	
				Q572	2SC3312RTA	TRANSISTOR	
Q1, 2	2SC3313BTA	TRANSISTOR		Q601	UN4219TA	TRANSISTOR	
Q3	2SC1674LTA	TRANSISTOR		Q602	UN4113TA	TRANSISTOR	
Q4	2SC3311RTA	TRANSISTOR		Q604	2SB1393AU	TRANSISTOR	
Q5, 6	RVTDA143XST	TRANSISTOR		Q605	2SC1684RTA	TRANSISTOR	
Q7-9	2SC3311RTA	TRANSISTOR		Q609	UN4211TA	TRANSISTOR	
Q10	2SC3311RTA	TRANSISTOR		Q650	2SC3311RTA	TRANSISTOR	
Q11, 12	2SA1309RTA	TRANSISTOR		Q701	2SA1309STA	TRANSISTOR	
Q13, 14	2SC3311RTA	TRANSISTOR		Q703	UN4110TA	TRANSISTOR	
Q15	RVTDA143XST	TRANSISTOR		Q704, 705	UN4216TA	TRANSISTOR	
Q18	2SK381CTA	TRANSISTOR		Q800	UN411FTA	TRANSISTOR	
Q19	RVTDC114TST	TRANSISTOR		Q801	UN4211TA	TRANSISTOR	
Q20	RVTDA143XST	TRANSISTOR		Q802	UN421FTA	TRANSISTOR	
Q101, 102	2SJ40CDTA	TRANSISTOR		Q803	UN411FTA	TRANSISTOR	
Q103, 104	RVTDC144TST	TRANSISTOR		Q805, 806	UN411FTA	TRANSISTOR	
Q108	2SJ40CDTA	TRANSISTOR		Q807	2SC3311RTA	TRANSISTOR	

Ref.No.	Part No.	Part Name & Description	Remarks	Ref.No.	Part No.	Part Name & Description	Remarks
Q812	UN4213TA	TRANSISTOR				COIL (S)	
		DIODE (S)		L3	RLQZP4R7KT-Y	COIL	
				L4	RL02B001-T	COIL	
D1, 2	1SV147T4MATU	DIODE		L5	RLV6C003-0	COIL	
D3	MA4051MTA	DIODE		L7	RL09B18-M	COIL	
D4	RVDKV1235ZB	DIODE		L8, 9	RLQZP221KT-Y	COIL	
D5	MA4130MTA	DIODE		L12	RL01B001-T	COIL	
D6	MA165TA	DIODE		L15	RLQZP221KT-Y	COIL	
D8, 9	MA165TA	DIODE		L17	RLQZP4R7KT-Y	COIL	
D10	MA165TA	DIODE		L301	RL08C002M-T	COIL	
D301	MA165TA	DIODE		L302, 303	RLQZB470KT-D	COIL	
D302	RVDMT24R7BTA	DIODE		L603	RL1500050T-Y	COIL	
D303, 304	MA165TA	DIODE		L800, 801	RL1500050T-Y	COIL	
D601	MA165TA	DIODE		L805	RLQZP2R2KT-Y	COIL	
D606	MA165TA	DIODE		L809	RLQZP2R2KT-Y	COIL	
D608	MA4100MTA	DIODE		L811-813	RLQZP2R2KT-Y	COIL	
D609	MA165TA	DIODE		L815	RLQZP2R2KT-Y	COIL	
D611	MA4068MTA	DIODE		L816	RLQZB101KT-D	COIL	
D612	MA723TA	DIODE		L819-821	RLQZP2R2KT-Y	COIL	
D650-653	RVDP300DLF	DIODE					
D654	MA723TA	DIODE				TRANSFORMER (S)	
D707, 708	MA165TA	DIODE					
D803-806	MA165TA	DIODE		T1	RL12B001-T	TRANSFORMER	
D811	MA165TA	DIODE		T601	RTP1U1B001-C	POWER TRANSFORMER	(EB) △
D814-816	MA165TA	DIODE		T601	RTP1U1E001-C	POWER TRANSFORMER	(EG) △
D817	LN031493PM	LED ASS'Y (D800, D810)					
D833	MA165TA	DIODE				FILTER (S)	
D951	RVDISS133TA	DIODE					
D971	RVDISS133TA	DIODE		CF1, 2	RLFFETWLA02D	CERAMIC FILTER	
				CF3	RLFDFTA01D	CERAMIC FILTER	
		VARIABLE RESISTOR (S)					
						OSCILLATOR (S)	
VR301	RVNCC14B1T-A	V. R. TAPE SPEED ADJ. (HIGH)					
VR302	RVNCC24B1T-A	V. R. TAPE SPEED ADJ. (NORMAL)		X1	RSX2456KM01	OSCILLATOR	
VR303	RVNCC73B1T-A	V. R. TAPE SPEED ADJ.		X2	RVCF7200NZN	OSCILLATOR	
VR470, 570	EWAGQ2C95G54	V. R. TONE CONTROL		X701	RSXZ16M9M01T	OSCILLATOR	
VR472, 572	EWAGS2C95D54	V. R. XBS LEVEL		X800	RVBCSA4ROMGT	OSCILLATOR	
VR473, 573	EWCO7A027B54	V. R. VOLUME CONTROL		X801	RSXD32K7F02	OSCILLATOR	
VR701	EVNDXAA00B14	V. R. BEST EYE ADJ.					
VR702	EVNDXAA00B24	V. R. TRACKING BALANCE ADJ.				SWITCH (ES)	
VR703	EVNDXAA00B14	V. R. FOCUS OFFSET ADJ.					
VR704	EVNDXAA00B14	V. R. FOCUS GAIN ADJ.		S601	RJJ1SE01-H	SW, AC/DC (J603)	△
VR705	EVNDXAA00B14	V. R. TRACKING GAIN ADJ.		S701	SSHD5-E	SW, RESET	
VR706	EVNDXAA00B14	V. R. TRACKING OFFSET ADJ.		S800	EVQ21405R	SW, TAPE STOP	
				S802	EVQ21405R	SW, PLAY/STOP	
		COMPONENT COMBINATION (S)		S803	EVQ21405R	SW, POWER	
				S804	EVQ21405R	SW, REVERSE SIDE PLAY	
Z1	RXABPWB6AT	COMPONENT COMBINATION		S806	EVQ21405R	SW, CD PAUSE	
Z301-303	EXBDF9035G0	COMPONENT COMBINATION		S807	EVQ21405R	SW, FUNCTION (TAPE)	
Z800	RCDO002	REMOTE SENSOR		S808	EVQ21405R	SW, DISPLAY	
				S809	EVQ21405R	SW, TAPE FAST/TPS	

Ref.No.	Part No.	Part Name & Description	Remarks	Ref.No.	Part No.	Part Name & Description	Remarks
S811	EVQ21405R	SW, CD REPEAT					
S812	EVQ21405R	SW, FUNCTION (TUNER/BAND)				DISPLAY	
S813	EVQ21405R	SW, COUNTER RESET					
S814	EVQ21405R	SW, DECK SELECT "DECK1"		LCD1	RSL5020	LCD	
S816	EVQ21405R	SW, AUTO EDIT (A/B)					
S817	EVQ21405R	SW, FUNCTION (CD)				JACK (S)	
S819	EVQ21405R	SW, DECK SELECT "DECK2"					
S821	EVQ21405R	SW, CD SKIP/SEARCH		J601	RJJ1D25ZA-C	JACK, MIC	
S822	EVQ21405R	SW, AUX		J602	RJJD7S2YA-C	JACK, HEADPHONES	
S823	EVQ21405R	SW, FRONT SIDE PLAYBACK		J603	RJJ1SE01-H	JACK, AC IN	△
S825	EVQ21405R	SW, CANCEL		J604	RJH3207N-0	JACK, AUX IN	
S826	EVQ21405R	SW, TIME SET/TUNING+					
S827	EVQ21405R	SW, TAPE FAST/TPS					
S831	EVQ21405R	SW, REV MODE					
S833	EVQ21405R	SW, SKIP/SEARCH					
S834	EVQ21405R	SW, SLEEP					
S835	EVQ21405R	SW, REC PAUSE					
S837	EVQ21405R	SW, TAPE LENGTH					
S838	EVQ21405R	SW, TIMER					
S839	RSHIA90ZA-U	SW, CD OPEN/CLOSE					
S840	EVQ21405R	SW, ONE TOUCH EDIT (NORMAL)					
S843	EVQ21405R	SW, TIME SET/TUNING-					
S844	EVQ21405R	SW, ONE TOUCH EDIT (HIGH)					
S846	EVQ21405R	SW, ATLS					
S847	EVQ21405R	SW, TIMER CHECK					
S849	EVQ21405R	SW, FIT					
S850	EVQ21405R	SW, TIME ADJUST					
S851	RSS3A18YA-H	SW, FM MODE/BEAT PROOF					
S854	RSS2A63ZA-H	SW, TIMER-REC					
S899	SSP83	SW, LASER POWER OFF					
S951	RSHIA89ZA-U	SW, DECK1 MODE DETECT					
S952	RSHIA90ZA-U	SW, TAPE INSERT DETECT					
S953	RSHIA90ZA-U	SW, C-r02 TAPE DETECT					
S971	RSHIA89ZA-U	SW, DECK2 MODE DETECT					
S972	RSHIA90ZA-U	SW, TAPE INSERT DETECT					
S973	RSHIA90ZA-U	SW, REC PREVENTION DETECT					
S974	RSHIA90ZA-U	SW, REC PREVENTION DETECT					
S975	RSHIA90ZA-U	SW, C-r02 TAPE DETECT					
		VARIABLE CAPACITOR (S)					
CT1	RCV10AF1T-S	TRIMMER CAPACITOR					
CT2	ECRLA020E53R	VARIABLE CAPACITOR					
		IC PROTECTOR (S)					
IP600	RAHICPN15TA	IC PROTECTOR					
IP601-603	RAHICPN5TA	IC PROTECTOR					
		FUSE					
F601	XBA2C31TBOU	FUSE	△				

Notes : * Capacity valuse are in microfarads (uF) unless specified otherwise,P=Pico-farads (pF) F=Farads (F) * Resistance values are in ohms,unless specified otherwise, 1K=1,000 (OHM) , 1M=1,000k(OHM)								
Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks
		RESISTORS						
R1-3	ERDS2TJ104T	1/4W 100K	R115	ERDS2TJ474T	1/4W 470K	R334	ERDS2TJ102T	1/4W 1K
R4	ERDS2TJ470T	1/4W 47	R116	ERDS2TJ154T	1/4W 150K	R336	ERDS2TJ223T	1/4W 22K
R5	ERDS2TJ151T	1/4W 150	R120	ERDS2TJ822T	1/4W 8. 2K	R337	ERDS2TJ1R2T	1/4W 1. 2
R6	ERDS2TJ331T	1/4W 330	R128	ERDS2TJ152T	1/4W 1. 5K	R338	ERDS2TJ103T	1/4W 10K
R7	ERDS2TJ391T	1/4W 390	R130	ERDS2TJ822T	1/4W 8. 2K	R339	ERDS2TJ1R2T	1/4W 1. 2
R8	ERDS2TJ274T	1/4W 270K	R202	ERDS2TJ123T	1/4W 12K	R340	ERDS2TJ334T	1/4W 330K
R9	ERDS2TJ105T	1/4W 1M	R203	ERDS2TJ122T	1/4W 1. 2K	R346-349	ERDS2TJ472T	1/4W 4. 7K
R10	ERDS2TJ561T	1/4W 560	R205	ERDS2TJ330T	1/4W 33	R350	ERDS2TJ473T	1/4W 47K
R11	ERDS2TJ330T	1/4W 33	R206	ERDS2TJ392T	1/4W 3. 9K	R351	ERDS2TJ472T	1/4W 4. 7K
R12	ERDS2TJ104T	1/4W 100K	R207	ERDS2TJ682T	1/4W 6. 8K	R352, 353	ERDS2TJ473T	1/4W 47K
R13	ERDS2TJ470T	1/4W 47	R208	ERDS2TJ222T	1/4W 2. 2K	R355	ERDS2TJ473T	1/4W 47K
R15	ERDS2TJ391T	1/4W 390	R209	ERDS2TJ104T	1/4W 100K	R356	ERDS2TJ335T	1/4W 3. 3M
R16	ERDS2TJ683T	1/4W 68K	R210	ERDS2TJ223T	1/4W 22K	R357	ERDS2TJ222T	1/4W 2. 2K
R17	ERDS2TJ104T	1/4W 100K	R211	ERDS2TJ822T	1/4W 8. 2K	R358, 359	ERDS2TJ472T	1/4W 4. 7K
R18	ERDS2TJ103T	1/4W 10K	R212	ERDS2TJ101T	1/4W 100	R360	ERDS2TJ102T	1/4W 1K
R20	ERDS2TJ332T	1/4W 3. 3K	R215	ERDS2TJ474T	1/4W 470K	R361, 362	ERDS2TJ104T	1/4W 100K
R21	ERDS2TJ562T	1/4W 5. 6K	R216	ERDS2TJ154T	1/4W 150K	R364	ERDS2TJ104T	1/4W 100K
R22	ERDS2TJ473T	1/4W 47K	R220	ERDS2TJ822T	1/4W 8. 2K	R365	ERDS2TJ222T	1/4W 2. 2K
R23	ERDS2TJ102T	1/4W 1K	R228	ERDS2TJ152T	1/4W 1. 5K	R366	ERDS2TJ103T	1/4W 10K
R24	ERDS2TJ223T	1/4W 22K	R230	ERDS2TJ822T	1/4W 8. 2K	R401	ERDS2TJ223T	1/4W 22K
R25	ERDS2TJ103T	1/4W 10K	R301	ERDS2TJ334T	1/4W 330K	R402	ERDS2TJ473T	1/4W 47K
R27	ERDS2TJ151T	1/4W 150	R302	ERDS2TJ102T	1/4W 1K	R403	ERDS2TJ563T	1/4W 56K
R28, 29	ERDS2TJ471T	1/4W 470	R303	ERDS2TJ103T	1/4W 10K	R407	ERDS2TJ223T	1/4W 22K
R30	ERDS2TJ104T	1/4W 100K	R304, 305	ERDS2TJ102T	1/4W 1K	R408	ERDS2TJ123T	1/4W 12K
R31	ERDS2TJ222T	1/4W 2. 2K	R306	ERDS2TJ472T	1/4W 4. 7K	R409	ERDS2TJ473T	1/4W 47K
R32	ERDS2TJ473T	1/4W 47K	R308	ERDS2TJ822T	1/4W 8. 2K	R411	ERDS2TJ103T	1/4W 10K
R33-38	ERDS2TJ103T	1/4W 10K	R309	ERDS2TJ1R2T	1/4W 1. 2	R412	ERDS2TJ473T	1/4W 47K
R39	ERDS2TJ102T	1/4W 1K	R310	ERDS2TJ103T	1/4W 10K	R413	ERDS2TJ103T	1/4W 10K
R40	ERDS2TJ223T	1/4W 22K	R311, 312	ERDS2TJ472T	1/4W 4. 7K	R428	ERDS2TJ151T	1/4W 150
R50-52	ERDS2TJ103T	1/4W 10K	R313	ERDS2TJ332T	1/4W 3. 3K	R430	ERDS2TJ2R2T	1/4W 2. 2
R55	ERDS2TJ103T	1/4W 10K	R314	ERDS2TJ102T	1/4W 1K	R435	ERDS2TJ101T	1/4W 100
R56	ERDS2TJ222T	1/4W 2. 2K	R315	ERDS2TJ221T	1/4W 220	R436	ERDS2TJ473T	1/4W 47K
R60	ERDS2TJ104T	1/4W 100K	R316	ERDS2TJ1R2T	1/4W 1. 2	R438	ERDS2TJ821T	1/4W 820
R61	ERDS2TJ332T	1/4W 3. 3K	R317	ERDS2TJ562T	1/4W 5. 6K	R449	ERDS2TJ221T	1/4W 220
R62, 63	ERDS2TJ681T	1/4W 680	R318	ERDS2TJ153T	1/4W 15K	R450	ERDS2TJ224T	1/4W 220K
R71	ERDS2TJ274T	1/4W 270K	R319	ERDS2TJ183T	1/4W 18K	R470	ERDS2TJ105T	1/4W 1M
R102	ERDS2TJ123T	1/4W 12K	R320	ERDS2TJ334T	1/4W 330K	R471	ERDS2TJ123T	1/4W 12K
R103	ERDS2TJ122T	1/4W 1. 2K	R321	ERDS2TJ221T	1/4W 220	R472	ERDS2TJ682T	1/4W 6. 8K
R105	ERDS2TJ330T	1/4W 33	R322	ERDS2TJ1R2T	1/4W 1. 2	R473	ERDS2TG152T	1/4W 1. 5K
R106	ERDS2TJ392T	1/4W 3. 9K	R323	ERDS2TJ682T	1/4W 6. 8K	R478	ERDS2TJ104T	1/4W 100K
R107	ERDS2TJ682T	1/4W 6. 8K	R325	ERDS2TJ183T	1/4W 18K	R479	ERDS2TJ682T	1/4W 6. 8K
R108	ERDS2TJ222T	1/4W 2. 2K	R326	ERDS2TJ123T	1/4W 12K	R480	ERDS2TJ391T	1/4W 390
R109	ERDS2TJ104T	1/4W 100K	R327	ERDS2TJ334T	1/4W 330K	R482	ERDS2TJ103T	1/4W 10K
R110	ERDS2TJ223T	1/4W 22K	R328	ERDS2TJ123T	1/4W 12K	R485	ERDS2TJ472T	1/4W 4. 7K
R111	ERDS2TJ822T	1/4W 8. 2K	R329	ERDS1VJ680T	1/2W 68	R490	ERDS2TJ124T	1/4W 120K
R112	ERDS2TJ101T	1/4W 100	R330	ERDS2TJ104T	1/4W 100K	R501	ERDS2TJ223T	1/4W 22K
			R331	ERDS2TJ332T	1/4W 3. 3K	R502	ERDS2TJ473T	1/4W 47K
			R332	ERDS2TJ474T	1/4W 470K	R503	ERDS2TJ563T	1/4W 56K
			R333	ERDS2TJ472T	1/4W 4. 7K	R507	ERDS2TJ223T	1/4W 22K

Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks
R508	ERDS2TJ123T	1/4W 12K	R708	ERDS2TJ683T	1/4W 68K	R850, 851	ERDS2TG183T	1/4W 18K
R509	ERDS2TJ473T	1/4W 47K	R710	ERDS2TJ333T	1/4W 33K	R852	ERDS2TJ474T	1/4W 470K
R511	ERDS2TJ103T	1/4W 10K	R711	ERDS2TJ105T	1/4W 1M	R854, 855	ERDS2TG563T	1/4W 56K
R512	ERDS2TJ473T	1/4W 47K	R712, 713	ERDS2TJ102T	1/4W 1K	R859	ERDS2TJ224T	1/4W 220K
R513	ERDS2TJ103T	1/4W 10K	R715	ERDS2TJ222T	1/4W 2. 2K	R860	ERDS2TJ471T	1/4W 470
R528	ERDS2TJ151T	1/4W 150	R716	ERDS2TJ102T	1/4W 1K	R861	ERDS2TJ106T	1/4W 10M
R530	ERDS2TJ2R2T	1/4W 2. 2	R717	ERDS2TJ104T	1/4W 100K	R862	ERDS2TJ105T	1/4W 1M
R535	ERDS2TJ101T	1/4W 100	R720	ERDS2TJ120T	1/4W 12	R863	ERDS2TG563T	1/4W 56K
R536	ERDS2TJ473T	1/4W 47K	R721	ERDS2TJ471T	1/4W 470	R864	ERDS2TG104T	1/4W 100K
R538	ERDS2TJ821T	1/4W 820	R722	ERDS2TJ222T	1/4W 2. 2K	R865	ERDS2TG823T	1/4W 82K
R549	ERDS2TJ221T	1/4W 220	R723	ERDS2TJ682T	1/4W 6. 8K	R867	ERDS2TG183T	1/4W 18K
R550	ERDS2TJ224T	1/4W 220K	R725	ERDS2TJ103T	1/4W 10K	R868	ERDS2TJ473T	1/4W 47K
R570	ERDS2TJ105T	1/4W 1M	R726	ERDS2TJ562T	1/4W 5. 6K	R870	ERDS2TJ681T	1/4W 680
R571	ERDS2TJ123T	1/4W 12K	R727	ERDS2TJ332T	1/4W 3. 3K	R873, 874	ERDS2TJ103T	1/4W 10K
R572	ERDS2TJ682T	1/4W 6. 8K	R728	ERDS2TJ682T	1/4W 6. 8K	R875	ERDS2TG102T	1/4W 1K
R573	ERDS2TG152T	1/4W 1. 5K	R732	ERDS2TJ562T	1/4W 5. 6K	R876	ERDS2TJ103T	1/4W 10K
R578	ERDS2TJ104T	1/4W 100K	R733	ERDS2TJ473T	1/4W 47K	R877	ERDS2TG183T	1/4W 18K
R579	ERDS2TJ682T	1/4W 6. 8K	R735	ERDS2TJ392T	1/4W 3. 9K	R879	ERDS2TJ104T	1/4W 100K
R580	ERDS2TJ391T	1/4W 390	R736	ERDS2TJ472T	1/4W 4. 7K	R881	ERDS2TJ101T	1/4W 100
R582	ERDS2TJ103T	1/4W 10K	R737	ERDS2TJ102T	1/4W 1K	R884, 885	ERDS2TJ221T	1/4W 220
R585	ERDS2TJ472T	1/4W 4. 7K	R738	ERDS2TJ104T	1/4W 100K	R891	ERDS2TJ473T	1/4W 47K
R590	ERDS2TJ124T	1/4W 120K	R740	ERDS2TJ471T	1/4W 470	R893	ERDS2TJ103T	1/4W 10K
R601	ERDS2TJ472T	1/4W 4. 7K	R741	ERDS2TJ102T	1/4W 1K	R896, 897	ERDS2TJ103T	1/4W 10K
R602	ERDS2TJ222T	1/4W 2. 2K	R742	ERDS2TJ104T	1/4W 100K	R898	ERDS2TJ474T	1/4W 470K
R603	ERDS2TJ101T	1/4W 100	R743	ERDS2TJ471T	1/4W 470	R899	ERDS2TJ104T	1/4W 100K
R604	ERDS2TJ223T	1/4W 22K	R745	ERDS2TJ470T	1/4W 47	R901	ERDS2TJ821T	1/4W 820
R605	ERDS2TJ101T	1/4W 100	R746	ERDS2TJ223T	1/4W 22K	R902	ERDS2TG103T	1/4W 10K
R606	ERDS2TJ105T	1/4W 1M	R748	ERDS2TJ222T	1/4W 2. 2K	R910	ERDS2TJ472T	1/4W 4. 7K
R607	ERDS2TJ473T	1/4W 47K	R749	ERDS2TJ224T	1/4W 220K	R912	ERDS2TJ104T	1/4W 100K
R608	ERDS2TJ471T	1/4W 470	R750-752	ERDS2TJ562T	1/4W 5. 6K	R913	ERDS2TJ472T	1/4W 4. 7K
R610	ERDS2TJ472T	1/4W 4. 7K	R755	ERDS2TJ223T	1/4W 22K	R914	ERDS2TJ471T	1/4W 470
R612-615	ERDS2TJ103T	1/4W 10K	R800	ERDS2TG103T	1/4W 10K	R916	ERDS2TJ104T	1/4W 100K
R616, 617	ERDS2TJ104T	1/4W 100K	R802-804	ERDS2TG103T	1/4W 10K	R924	ERDS2TJ471T	1/4W 470
R618	ERDS2TJ393T	1/4W 39K	R805	ERDS2TG102T	1/4W 1K	R926, 927	ERDS2TJ472T	1/4W 4. 7K
R620	ERDS2TJ222T	1/4W 2. 2K	R807-809	ERDS2TG102T	1/4W 1K	R929	ERDS2TG272T	1/4W 2. 7K
R621, 622	ERDS2TJ103T	1/4W 10K	R812	ERDS2TG102T	1/4W 1K	R934, 935	ERDS2TG272T	1/4W 2. 7K
R623	ERDS2TJ102T	1/4W 1K	R814-816	ERDS2TG102T	1/4W 1K	R937	ERDS2TJ391T	1/4W 390
R630	ERDS2TJ1R5T	1/4W 1. 5	R817	ERDS2TG122T	1/4W 1. 2K	R938	ERDS2TJ104T	1/4W 100K
R631	ERDS2TJ223T	1/4W 22K	R819, 820	ERDS2TG122T	1/4W 1. 2K	R940-942	ERDS2TJ103T	1/4W 10K
R634	ERDS2TJ473T	1/4W 47K	R822	ERDS2TG152T	1/4W 1. 5K			CAPACITORS
R635	ERDS2TJ153T	1/4W 15K	R824, 825	ERDS2TG152T	1/4W 1. 5K			
R636	ERDS2TJ223T	1/4W 22K	R826	ERDS2TG222T	1/4W 2. 2K			
R642	ERDS2TJ472T	1/4W 4. 7K	R828, 829	ERDS2TG222T	1/4W 2. 2K	C1	ECBT1H180JC5	50V 18P
R644	ERDS2TJ333T	1/4W 33K	R832	ERDS2TG272T	1/4W 2. 7K	C2	ECBT1H102KB5	50V 1000P
R649	ERDS2TJ104T	1/4W 100K	R834, 835	ERDS2TG272T	1/4W 2. 7K	C3	ECBT1H330J5	50V 33P
R690	ERDS2TJ681T	1/4W 680	R836	ERDS2TG392T	1/4W 3. 9K	C4	ECBT1H102KB5	50V 1000P
R691	ERDS2TJ472T	1/4W 4. 7K	R838, 839	ERDS2TG392T	1/4W 3. 9K	C5	ECBT1C103MS5	16V 0. 01U
R701	ERDS2TJ472T	1/4W 4. 7K	R840	ERDS2TG562T	1/4W 5. 6K	C6, 7	ECBT1H181KB5	50V 180P
R702	ERDS2TJ103T	1/4W 10K	R842, 843	ERDS2TG562T	1/4W 5. 6K	C8	ECBT1H102KB5	50V 1000P
R705	ERDS2TJ103T	1/4W 10K	R844	ERDS2TG103T	1/4W 10K	C9	ECBT1H4R7KC5	50V 4. 7P
R706	ERDS2TJ823T	1/4W 82K	R846, 847	ERDS2TG103T	1/4W 10K	C10	ECBT1H2R2KC5	50V 2. 2P
R707	ERDS2TJ123T	1/4W 12K	R848	ERDS2TG183T	1/4W 18K	C11, 12	ECBT1H102KB5	50V 1000P

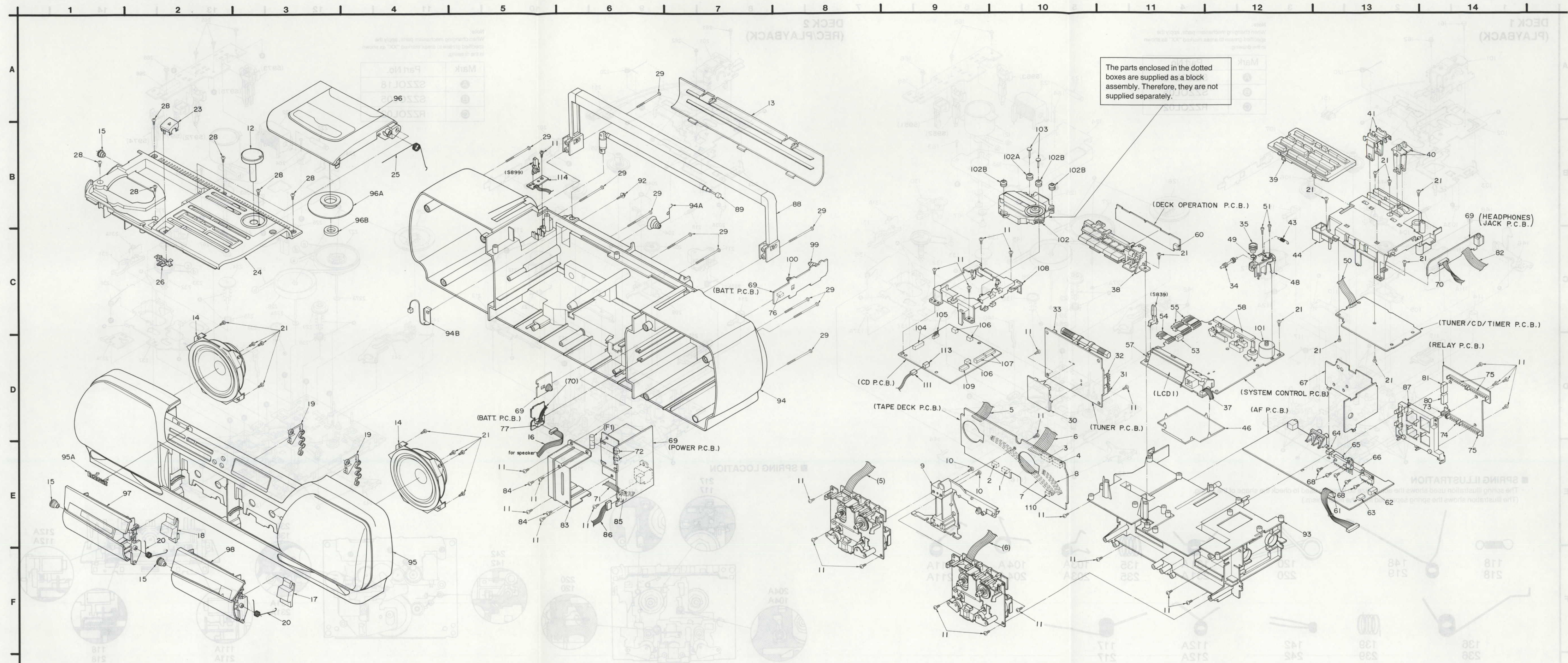
Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks
C14, 15	ECBT1H102KB5	50V 1000P	C115, 116	ECBT1H102KB5	50V 1000P	C412	ECEA1HK010B	50V 1U
C18	ECBT1H150JC5	50V 15P	C117	ECEA1EK4R7B	25V 4. 7U	C413	ECBT1H102KB5	50V 1000P
C19	ECBT1H100JC5	50V 10P	C118	ECBT1H102KB5	50V 1000P	C414	ECQV1H224JZ3	50V 0. 22U
C20	ECFR1C473MR	16V 0. 047U	C119	ECBT0J223NS5	6. 3V 0. 022U	C470	ECEA1HU010B	50V 1U
C23	ECEA1HN010SB	50V 1U	C124	ECEA0JU221B	6. 3V 220U	C471	ECBT1H101KB5	50V 100P
C24	ECBT1C103MS5	16V 0. 01U	C201	ECBT1H102KB5	50V 1000P	C472, 473	ECEA1HK010B	50V 1U
C25	ECFR1C223MR	16V 0. 022U	C204	ECFR1C333JR	16V 0. 033U	C474	ECFR1C103MR	16V 0. 01U
C26	ECEA1CU101B	16V 100U	C205, 206	ECBT1H471KB5	50V 470P	C477	ECEA1HCR22B	50V 0. 22U
C27	ECBT1C103MS5	16V 0. 01U	C207	ECFR1C183KR	16V 0. 018U	C478	ECFR1C473MR	16V 0. 047U
C29	ECEA1HU010B	50V 1U	C208	ECEA1HK010B	50V 1U	C479	ECFR1C222MR	16V 2200P
C30	ECBT1H270J5	50V 27P	C209	ECEA1EK4R7B	25V 4. 7U	C501	ECEA1CK100B	16V 10U
C31	ECEA1AU470B	10V 47U	C210	ECEA1HK010B	50V 1U	C509	ECEA1AU222E	10V 2200U
C32	ECFR1C223MR	16V 0. 022U	C211	ECBT1H102KB5	50V 1000P	C510	ECEA1AU101B	10V 100U
C33, 34	ECEA1CU100B	16V 10U	C212	ECFR1C473MR	16V 0. 047U	C511	ECEA0JU101B	6. 3V 100U
C35	ECFR1C223MR	16V 0. 022U	C213	ECEA1CK100B	16V 10U	C512	ECEA1HK010B	50V 1U
C36	ECBT1H331KB5	50V 330P	C214	ECBT1C272MR5	16V 2700P	C513	ECBT1H102KB5	50V 1000P
C37	ECFR1C683MR	16V 0. 068U	C215, 216	ECBT1H102KB5	50V 1000P	C514	ECQV1H224JZ3	50V 0. 22U
C38, 39	ECFR1C823MR	16V 0. 082U	C217	ECEA1EK4R7B	25V 4. 7U	C570	ECEA1HU010B	50V 1U
C40, 41	ECFR1C123MR	16V 0. 012U	C218	ECBT1H102KB5	50V 1000P	C571	ECBT1H101KB5	50V 100P
C44	ECBT1H330J5	50V 33P	C219	ECBT0J223NS5	6. 3V 0. 022U	C572, 573	ECEA1HK010B	50V 1U
C45	ECFR1C223MR	16V 0. 022U	C224	ECEA0JU221B	6. 3V 220U	C574	ECFR1C103MR	16V 0. 01U
C46	ECEA0JU101B	6. 3V 100U	C301	ECBT1C103MS5	16V 0. 01U	C577	ECEA1HCR22B	50V 0. 22U
C47	ECFR1C473MR	16V 0. 047U	C302	ECQV1H474JZ3	50V 0. 47U	C578	ECFR1C473MR	16V 0. 047U
C48	ECEA1CU100B	16V 10U	C303	ECQP2A272JZT	100V0. 0027U	C579	ECFR1C222MR	16V 2200P
C49	ECBT1H270J5	50V 27P	C304	ECQP2A152JZT	100V0. 0015U	C601	ECBT1H101KB5	50V 100P
C50	ECBT1H300J5	50V 30P	C305	ECBT1C103NS5	16V 0. 01U	C602	ECEA1AK101B	10V 100U
C51	ECBT1H102KB5	50V 1000P	C306	ECQP2A392JZT	100V 3900P	C603	ECEA1CK100B	16V 10U
C52	ECEA1EU3R3B	25V 3. 3U	C307	ECEA1HU010B	50V 1U	C604	ECEA1AK220B	10V 22U
C53	ECEA1HU010B	50V 1U	C308	ECQV1H473JZ3	50V 0. 047U	C605	ECEA1AK101B	10V 100U
C62	ECFR1C103MR	16V 0. 01U	C309	ECEA1AU101B	10V 100U	C606	ECEA1HK010B	50V 1U
C63	ECBT1H150JC5	50V 15P	C310, 311	ECBT1H102KB5	50V 1000P	C609	ECBT1H471KB5	50V 470P
C64, 65	ECFR1C223MR	16V 0. 022U	C312, 313	ECFR1C103KR	16V 0. 01U	C613	ECEA1EU101B	25V 100U
C66	ECBT1H102KB5	50V 1000P	C314	ECEA0JKS101B	6. 3V 100U	C614	ECEA1AU471B	10V 470U
C67	ECBT1H471KB5	50V 470P	C315	ECEA1AU330B	10V 33U	C615	ECEA1EU472	25V 4700U
C69	ECBT1C332MR5	16V 3300P	C316	ECEA1AU101B	10V 100U	C619, 620	ECEA1EK4R7B	25V 4. 7U
C71	ECBT1H102KB5	50V 1000P	C318	ECEA1CK100B	16V 10U	C621	ECEA1AU101B	10V 100U
C72	ECBT1H331KB5	50V 330P	C319	ECEA1HK0R1B	50V 0. 1U	C624	ECEA1AU101B	10V 100U
C73	ECFR1C223MR	16V 0. 022U	C320	ECFR1C223MR	16V 0. 022U	C625	ECEA1HK010B	50V 1U
C74	ECBT1H470J5	50V 47P	C321	ECEA1HK010B	50V 1U	C626	ECBT1H471KB5	50V 470P
C78	ECBT1H331KB5	50V 330P	C322	ECEA1CU101B	16V 100U	C627, 628	ECEA1EK4R7B	25V 4. 7U
C82	ECBT1C103MS5	16V 0. 01U	C323	ECBT1C103MS5	16V 0. 01U	C629	ECEA1CK100B	16V 10U
C101	ECBT1H102KB5	50V 1000P	C328	ECKF1H153MD	50V 0. 015U	C631	ECEA1CU100B	16V 10U
C104	ECFR1C333JR	16V 0. 033U	C329	ECEA0JU221B	6. 3V 220U	C632	ECKR1H471KB5	50V 470P
C105, 106	ECBT1H471KB5	50V 470P	C331	ECBT1H104ZF5	50V 0. 1U	C650	ECEA0JU471B	6. 3V 470U
C107	ECFR1C183KR	16V 0. 018U	C332	ECEA1AU330B	10V 33U	C680-683	ECKW1H473ZF5	50V 0. 047U
C108	ECEA1HK010B	50V 1U	C333	ECEA1HK0R1B	50V 0. 1U	C701	ECEA0JU471B	6. 3V 470U
C109	ECEA1EK4R7B	25V 4. 7U	C335	ECEA0JU470B	6. 3V 47U	C702	ECEA1AU221BG	10V 220U
C110	ECEA1HK010B	50V 1U	C336, 337	ECBT1H681KB5	50V 680P	C703, 704	ECFR1C104MR	16V 0. 1U
C111	ECBT1H102KB5	50V 1000P	C401	ECEA1CK100B	16V 10U	C705	ECEA1CN100SB	16V 10U
C112	ECFR1C473MR	16V 0. 047U	C409	ECEA1AU222E	10V 2200U	C706	ECFR1C104MR	16V 0. 1U
C113	ECEA1CK100B	16V 10U	C410	ECEA1AU101B	10V 100U	C707	ECEA0JU101B	6. 3V 100U
C114	ECBT1C272MR5	16V 2700P	C411	ECEA0JU101B	6. 3V 100U	C708	ECBT1H681KB5	50V 680P

Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks			
C710	ECEA1HU010BG	50V 1U	C829	ECEA1AU221B	10V 220U			
C711	ECBT1H470J5	50V 47P	C834	ECEA1AU221B	10V 220U			
C712	ECEA1HU010BG	50V 1U	C862, 863	ECBT1H101KB5	50V 100P			
C713	ECEA1HN010SB	50V 1U	C867	ECBT1H102KB5	50V 1000P			
C715	ECFR1C333KR	16V 0. 033U	C869	ECBT1C103MS5	16V 0. 01U			
C716	ECEA1HN010SB	50V 1U	C873, 874	ECBT1H102KB5	50V 1000P			
C717	ECFR1C333KR	16V 0. 033U	C875	ECEA1HK2R2B	50V 2. 2U			
C718	ECBT1H102KB5	50V 1000P	C876	ECBT1H331KB5	50V 330P			
C720	ECEA1HNR47SB	50V 0. 47U	C951	ECBT1H101KB5	50V 100P			
C721	ECFR1C683MR	16V 0. 068U	C971	ECBT1H101KB5	50V 100P			
C722	ECEA1HNR47SB	50V 0. 47U						
C723	ECEA1AN220SB	10V 22U						
C725	ECFR1C104MR	16V 0. 1U						
C726	ECQV1H334JZ3	50V 0. 33U						
C727	ECQV1H474JZ3	50V 0. 47U						
C728	ECEA1CU220BG	16V 22U						
C730	ECEA1CU220BG	16V 22U						
C733	ECBT1H270J5	50V 27P						
C735	ECBT1H270J5	50V 27P						
C736	ECBT1H104ZF5	50V 0. 1U						
C737	ECEA0JU471B	6. 3V 470U						
C738	ECEA1CU100BG	16V 10U						
C741	ECBT1C103MR5	16V 0. 01U						
C742	ECEA0JU101B	6. 3V 100U						
C743	ECBT1H104ZF5	50V 0. 1U						
C747	ECBT1C332MR5	16V 3300P						
C748	ECFR1C333KR	16V 0. 033U						
C750	ECEA0JU101B	6. 3V 100U						
C751	ECFR1C333KR	16V 0. 033U						
C752	ECEA1HUR33B	50V 0. 33U						
C753	ECEA1HPS010B	50V 1U						
C755	ECEA1HPS010B	50V 1U						
C756	ECBT1C332MR5	16V 3300P						
C757	ECEA1CU100BG	16V 10U						
C758	ECFR1C104MR	16V 0. 1U						
C760	ECFR1C104MR	16V 0. 1U						
C761	ECEA0JU471B	6. 3V 470U						
C762, 763	ECBT1H471KB5	50V 470P						
C800-804	ECBT1H681KB5	50V 680P						
C805	ECBT1H102KB5	50V 1000P						
C806	ECEA0JU221B	6. 3V 220U						
C807	ECBT1H102KB5	50V 1000P						
C808	ECEA0JU221	6. 3V 220U						
C809	ECBT1H120JC5	50V 12P						
C810	ECBT1H220JC5	50V 22P						
C811	ECBT1H681KB5	50V 680P						
C813, 814	ECBT1H101KB5	50V 100P						
C815	ECBT1H681KB5	50V 680P						
C818, 819	ECBT1C103MS5	16V 0. 01U						
C820	ECEA0JU470B	6. 3V 47U						
C822	ECBT1H101KB5	50V 100P						
C827	ECEA1AU101B	10V 100U						

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET PARTS	
1	RJP5G18ZA	CONNECTOR (CP301)	
2	RJP4G18ZA	CONNECTOR (CP302)	
3	RJP10G18ZA	CONNECTOR (CP307)	
4	RJP9G18ZA	CONNECTOR (CP309)	
5	RWJ1107075QQ	FLAT CABLE (W303)	
6	RWJ1109075QQ	FLAT CABLE (W304)	
7	RWJ4704215KQ	FLAT CABLE (W305)	
8	RWJ4704105KQ	FLAT CABLE (W306)	
9	RMK0059	CHASSIS	
10	XTV26+6F	SCREW	
11	XTV3+12G	SCREW	
12	RGW0056-K	KNOB, VOLUME	
13	RKK0010-K	BATTERY COVER	
14	EAS12P450B	SPEAKER	
15	RDG57822B	GEAR	
16	REX0148Y	SPEAKER CABLE	
17	RGU0273-K1	EJECT BUTTON, DECK2	
18	RGU0274-K1	EJECT BUTTON, DECK1	
19	RML0148	EJECT LEVER, DECK	
20	RJW170YA	SPRING	
21	XTV3+10G	SCREW	
23	RGU0207-K2	EJECT BUTTON, CD	
24	RKQ0038A-K	UPPER CABINET	
25	RME0025-2	SPRING	
26	RML0114	EJECT LEVER, CD	
28	XTN3+12GFZ	SCREW	
29	XTV3+60G	SCREW	
30	RMCI236ZB	SHIELD PLATE	
31	RJT031W008	CONNECTOR (CP1)	
32	RJT031W007	CONNECTOR (CP2)	
33	RJP2G17ZA	CONNECTOR (CP3)	
34	RDG5953ZC	GEAR	
35	RDG5954ZA	GEAR	
37	REX0088Y	CABLE ASS'Y (CW309)	
38	RGU0209A-K	BUTTON, DECK OPERATION	
39	RGU0276A-K	BUTTON, MODE etc.	
40	RGV0028-K	KNOB, TIMER REC. FM MODE	
41	RGV0029-K	KNOB, TONE	
43	RMB0017-1	SPRING	
44	RMK0076	CHASSIS	
46	RSC0072	SHIELD PLATE	
48	RJA8672B	CHASSIS	
49	RUD129XA	SPRING	
50	RWJ1105080QQ	FLAT CABLE	
51	XQN17+C33	SCREW	
53	RJS5T4ZA	CONNECTOR (CM804)	
54	RJT005W007	CONNECTOR (CP701)	
55	RJT005W010	CONNECTOR (CP702, 703)	
57	RJT028W004	CONNECTOR (CP803)	
58	RJU028W020	SOCKET (CS801, 802)	
60	RJU028W004	SOCKET (CS803)	
61	REX0087Y	CABLE ASS'Y (CW307)	
62	RJS4T6ZA	SOCKET (CM604)	
63	RJP4G9YA	CONNECTOR (CM6051)	
64	RJU028W004	CONNECTOR (CS601)	
65	RJU028W010	CONNECTOR (CS602)	
66	RJU028W020	CONNECTOR (CS603)	
67	RMV0040	HEAT SINK	
68	XTV3+10F	SCREW	
69	RJB0235B	P. C. B	
70	REX0149Y	CABLE ASS'Y	
71	REX0181	CABLE ASS'Y (W607)	
72	RJF28ZA	FUSE HOLDER	△
73	RJT028W004	CONNECTOR (CP601)	
74	RJT028W010	CONNECTOR (CP602)	
75	RJT028W020	CONNECTOR (CP603, 801, 802)	
76	RJP3G4YA	CONNECTOR (CP607)	
77	RJP4G4YA	CONNECTOR (CP608)	
80	RJU031W008	CONNECTOR (CS1)	
81	RJU031W007	CONNECTOR (CS2)	
82	RWJ4704140QK	FLAT CABLE (W604)	
83	RMA0069-3	ANGLE	
84	XTV3+6F	SCREW	
85	RJP4G9YA	CONNECTOR (CM6052)	
86	REX0182Y	CABLE ASS'Y	
87	RMN0048	CHASSIS	
88	RYH0001	HANDLE ASS'Y	
89	XEARR225DA-Y	TELESCOPIC ANTENNA	
92	XYN3+F12FY	SCREW	
93	RMK0058A	CHASSIS	
94	RFKXDT5EG	REAR CABINET ASS'Y	(EG)
94	RFKXDT5EB	REAR CABINET ASS'Y	(EB)
94A	RJC931ZC	BATTERY SPRING	
94B	REX0084	TERMINAL ASS'Y	
95	RFKGXDT5EG	FRONT CABINET ASS'Y	
95A	RGPO093A-K	BADGE	
96	RFKLXDT5NA	CD COVER ASS'Y	
96A	RYF0016	DISC HOLDER ASS'Y	
96B	RFKNXDT9A	MAGNET ASS'Y	
97	RFKLXDT5NB	CASSETTE LID ASS'Y (DECK1)	
98	RFKLXDT5NC	CASSETTE LID ASS'Y (DECK2)	
99	RJC511ZB	BATTERY TERMINAL	
100	RJC751ZA	BATTERY TERMINAL	
101	RFM156ZA	MOTOR ASS'Y	
102	SODD101-3Z	TRAVERSE DECK ASS'Y	
102A	SHGD112	RUBBER (A)	
102B	SHGD113-1	RUBBER (B)	
103	RHM281YA	SHAFT	
104	RJS16Q11ZA	CONNECTOR (CS705)	
105	RJP5G35ZA	CONNECTOR (CP705)	
106	RJP2G18ZA	CONNECTOR (CP701, 702, 703)	

Ref. No.	Part No.	Part Name & Description	Remarks
107	RJU005W010	CONNECTOR (CS702, 703)	
108	RMK0051	CHASSIS	
109	RJU005W007	CONNECTOR	
110	RJP3G1ZA	CONNECTOR (TP1, 2, 3)	
111	REX0219	CABLE ASS'Y (W704E)	
113	RJP2G17ZA	CONNECTOR (CP704)	
114	RJB0233B-2	P. C. B	

CABINET PARTS LOCATION



MECHANISM PARTS LOCATION

DECK 1
(PLAYBACK)

Note:
When changing mechanism parts, apply the specified grease to areas marked "XX" as shown in the drawing.

Mark	Part No.
A	SZZOL18
B	SZZOL05
C	RZZOL02

■ SPRING ILLUSTRATION

The spring illustration used shows the actual size so it can be used to check the shape of the spring.
(The illustration shows the spring separated from the mechanism.)

118
218

148
219

120
220

131 A
231 A

135
235

103 A
203 A

104 A
204 A

111 A
211 A

136
236

139
239

142
242

112 A
212 A

117
217

DECK 2
(REC/PLAYBACK)

Note:
When changing mechanism parts, apply the specified grease to areas marked "XX" as shown in the drawing.

Mark	Part No.
A	SZZOL18
B	SZZOL05
C	RZZOL02

■ SPRING LOCATION

217
117

219
148

204 A
104 A

220
120

242
142

236
136

131 A
231 A

111 A
211 A

118
218

212 A
112 A

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Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
				143	RUB515ZA	LEVER	
		MECHANISM PARTS		144	RUB509ZA	LEVER	
		DECK1 (P. B)		145	RDV108ZA	BELT	
				146	RUB507ZD	LEVER	
101	RXQ0051	HEAD ASS' Y		148	RUW144ZA	SPRING	
102	RUA793ZF	CHASSIS		149	RHG3032ZA	RUBBER	
103	RZLAR300A	LEVER ASS' Y		150	RNL180ZB	LEVER	
103A	RUW143ZA	SPRING		151	REX0074	CABLE ASS' Y	
104	1UB0089Z	ARM		161	XTW2+6L	SCREW	
104A	RUW148ZA	SPRING		162	XTW2+8L	SCREW	
105	1DM0018ZB	REEL TABLE ASS' Y		163	XTN26+7J	SCREW	
106	1DM0017ZB	REEL TABLE ASS' Y		164	RHE5203ZA	SCREW	
107	RML0069-1	LEVER		165	XTW2+8S	SCREW	
108	RDG5772ZC	GEAR		166	XYC2+JF16	SCREW	
109	RUB508ZB	LEVER		167	RHD26002	SCREW	
110	RUB506ZB	LEVER		168	RJS7T7ZA	CONNECTOR (J951)	
111	1UB0088ZB	PINCH ROLLER					
111A	RUW141ZA	SPRING				DECK2 (R/P)	
112	1UB0087ZB	PINCH ROLLER					
112A	RUW140ZB	SPRING		201	RXQ0007	HEAD ASS' Y	
114	RNL1ZD	ARM		202	RUA793ZF	CHASSIS	
115	RUB503ZD	LEVER		203	RZLAR300A	LEVER ASS' Y	
116	RZUAR300A	CHASSIS ASS' Y		203A	RUW143ZA	SPRING	
117	RUW142ZA	SPRING		204	1UB0089Z	ARM	
118	RUD105ZA	SPRING		204A	RUW148ZA	SPRING	
120	RUW139ZA	SPRING		205	1DM0018ZB	REEL TABLE ASS' Y	
121	RFM133ZA	MOTOR ASS' Y		206	1DM0017ZB	REEL TABLE ASS' Y	
122	1UE0015ZB	PLUNGER		207	RML0069-1	LEVER	
123	RUB428ZE	SHAFT		208	RDG5772ZC	GEAR	
124	RUL1030YA	PLATE		209	RUB508ZB	LEVER	
125	RMD5014ZC	SPACER		210	RUB506ZB	LEVER	
126	RDG5927ZG	GEAR		211	1UB0088ZB	PINCH ROLLER	
127	1DW0037ZB	FLYWHEEL ASS' Y		211A	RUW141ZA	SPRING	
127A	RNW139ZA	WASHER		212	1UB0087ZB	PINCH ROLLER	
128	1DW0038ZB	FLYWHEEL ASS' Y		212A	RUW140ZB	SPRING	
128A	RNW141ZA	WASHER		213	RUB507ZD	LEVER	
129	1DG0006ZB	GEAR ASS' Y		214	RNL1ZD	ARM	
130	RUB513ZD	LEVER		215	RUB503ZD	LEVER	
131	1UB0091Z	LEVER		216	RZUAR300A	CHASSIS ASS' Y	
131A	RUW146ZA	SPRING		217	RUW142ZA	SPRING	
132	1DR0011ZB	PULLEY ASS' Y		218	RUD105ZA	SPRING	
133	RDV90ZB	BELT		219	RUW144ZA	SPRING	
134	RDG5769ZA	GEAR		220	RUW139ZA	SPRING	
135	RUQ111ZB	SPRING		221	RFM133ZA	MOTOR ASS' Y	
136	RUW145ZA	SPRING		222	1UE0015ZB	PLUNGER	
137	1UB0090ZA	ROD		223	RUB428ZE	SHAFT	
137A	RUB512ZB	ROD		224	RUL1030YA	PLATE	
138	RDG5773ZB	GEAR		225	RMD5014ZC	SPACER	
139	RUQ112ZA	SPRING		226	RDG5927ZG	GEAR	
140	RUS609ZC	SPRING		227	1DW0037ZB	FLYWHEEL ASS' Y	
141	RUB514ZC	LEVER		227A	RNW139ZA	WASHER	
142	RUW147ZA	SPRING		228	1DW0038ZB	FLYWHEEL ASS' Y	

[illegible]

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Technical Information

INTRODUCTION OF NEW TEST FIXTURE

MODEL : RX-DT5



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We extend our sincere thanks for your continued efforts in the sales and servicing of our products.

We would like to inform you that we have developed **EXTENSION CABLES** necessary troubleshooting and alignments of the above model.

Part Number	No. of conductors	Connect from	Connect to
RFKZXDT7	20	CS801	CP801
	20	CS802	CP802
	10	CS702	CP702
	10	CS703	CP703
	7	CS701	CP701

CONNECTION PROCEDURE

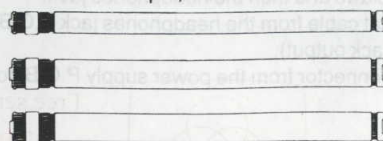
To connect the above cables, follow the procedure described below, in conjunction with the Service Manual.

Extension cable parts number: **RFKZXDT7** (consisting of one set of 5 cables).

Components:

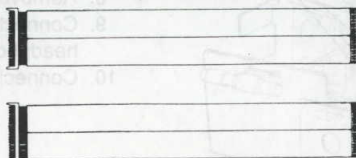
- to connect the CD P.C.B. and operation P.C.B.:

10-pin, 2 cables
7-pin, 1 cable



- to connect the operation P.C.B. and the relay P.C.B.:

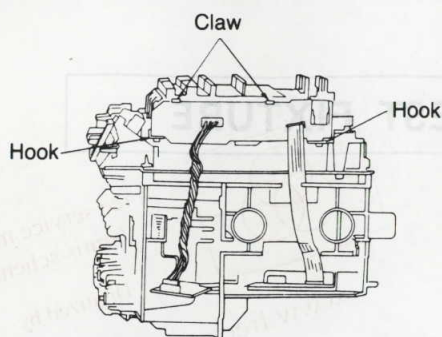
20-pin, 2 cables



Panasonic®

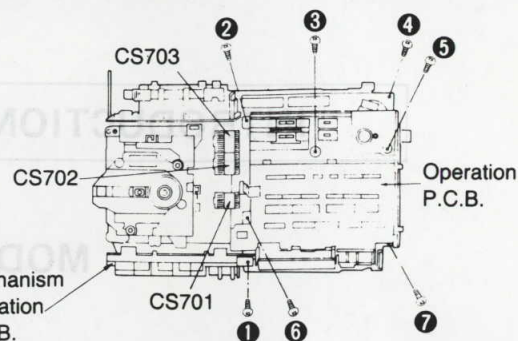
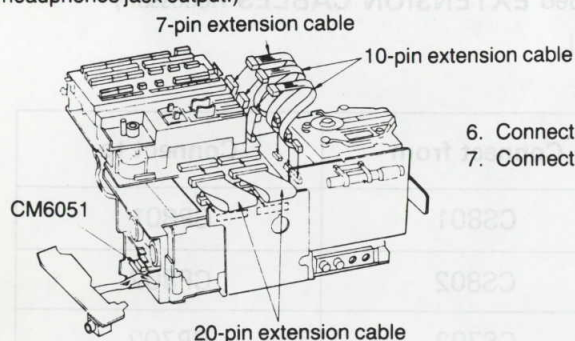
•How to Connect the Cables to Check the Operation P.C.B.

1. Remove the P.C.B. unit by following the disassembly instructions in Ref. No. 8 in the REMOVAL OF THE P.C.B. UNIT. (See p. 11.)



2. Remove two claws and two hooks and then the headphones jack P.C.B.

- Do not disconnect connector CM604.
(for headphones jack output.)

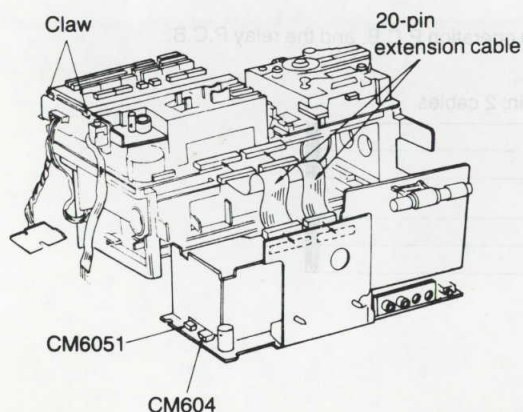
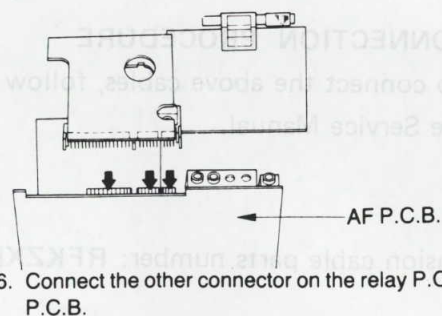
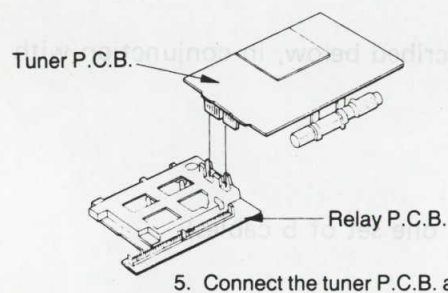


3. Remove three connectors (CS701, CS702 and CS703).
4. Remove seven screws (①~⑦).
5. Remove the operation P.C.B. together with the mechanism operation P.C.B.

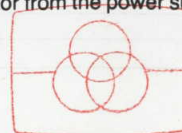
6. Connect the extension cables as shown in the figure on the left.
7. Connect connector CM6051 to CM6052 on the power supply P.C.B. (for power supply).

•How to Connect the Cables to Check the Tuner P.C.B.

1. Remove the P.C.B. UNIT by following the disassembly instructions in Ref. No. 8 in the REMOVAL OF THE P.C.B. UNIT. (See p. 11.)
2. Remove the relay P.C.B. by following the disassembly instructions in Ref. No. 10 in REMOVAL OF THE RELAY P.C.B. (See p. 12.)
3. Remove the tuner P.C.B. by following the disassembly instructions in Ref. No. 11 in REMOVAL OF THE TUNER P.C.B. (See p. 12.)
4. Remove the AF P.C.B. by following the disassembly instructions in Ref. No. 21 in REMOVAL OF THE AF P.C.B. (See p. 14.)



7. Use the 20-pin extension cable to connect the operation P.C.B. and the relay P.C.B.
8. Remove two claws and then the headphones jack.
9. Connect the flat cable from the headphones jack P.C.B. to CM604 (for headphones jack output).
10. Connect the connector from the power supply P.C.B. to CM6051.



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