

CDP-55

SERVICE MANUAL

*US Model
Canadian Model
AEP Model
UK Model
E Model*



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SPECIFICATIONS

COMPACT DISC PLAYER CDP-55

System	Compact disc digital audio system
Disc	Compact disc
Laser	Semiconductor laser ($\lambda = 780 \text{ nm}$)
Laser output	Max. 0.4 mW*
	* This output is the value measured at a distance of about 1.6 mm from the objective lens surface on the optical pick-up block.
Spindle speed	200 r.p.m. to 500 r.p.m (CLV)
Scan velocity	1.2 – 1.4 m/sec. Constant
Error correction	Sony Super Strategy Cross Interleave Reed Solomon Code
Number of channels	2
D-A conversion	16-bit linear
Frequency response	2 Hz – 20,000 Hz ($\pm 0.5 \text{ dB}$)
Signal to noise ratio	More than 98 dB
Dynamic range	More than 96 dB
Harmonic distortion	Less than 0.003 % (at 1 kHz)
Channel separation	More than 93 dB
Wow and flutter	Below measurable limit
Outputs	Line outputs (phono jacks) Output level 2 V rms (at MSB) Load impedance over 10 kilohms Headphones 28 mW at 32 ohms

Disc

Track pitch	1.6 μm
Sampling frequency	44.1 kHz
Quantization	16 bit linear quantizing/channel
Modulation system	EFM
Transfer rate	2.03 Mbit/sec. (before modulation)

General

Power requirements	US, Canadian model: 120 V ac, 60 Hz AEP model: 220 V ac, 50 Hz UK model: 240 V ac, 50 Hz E model: 120, 220 or 240 V ac adjustable 50/60 Hz
Power consumption	13 W
Dimensions	Approx. 430 x 80 x 290 mm (w/h/d) (AEP model) (17 x 3 1/4 x 11 1/2 inches) Approx. 430 x 80 x 285 mm (w/h/d) (US, Canadian, UK, E model) (17 x 3 1/4 x 11 1/4 inches) including projecting parts and controls
Weight	Approx. 4.2 kg (9 lb 4 oz), net

— Continued on page 2 —

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET UNE MARQUE  SUR LES DIAGRAMMES SCHEMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.



COMPACT DISC PLAYER

SONY®

AUD

US, Canadian model:**REMOTE COMMANDER RM-D150**

Remote control system

Infrared control

Power requirements

3 V dc with two batteries size AA
(IEC designation R6)

Dimensions

Approx. 67 × 20 × 175 mm (w/h/d)
(2³/₄ × 1³/₁₆ × 7 inches)
incl. projecting parts and controls

Weight

Approx. 145 g (5.1 oz)
incl. batteries**AEP, UK, E model:****REMOTE COMMANDER RM-D30**

Remote control system

Infrared control

Power requirements

3 V DC with two IEC designation R6
batteries (size AA)

Dimensions

Approx. 43 × 20 × 175 mm (w/h/d)
(1³/₄ × 1³/₁₆ × 7 inches)
incl. projecting parts and controls

Weight

Approx. 101 g (3.6 oz)
incl. batteries**FEATURES****High performance and high fidelity**

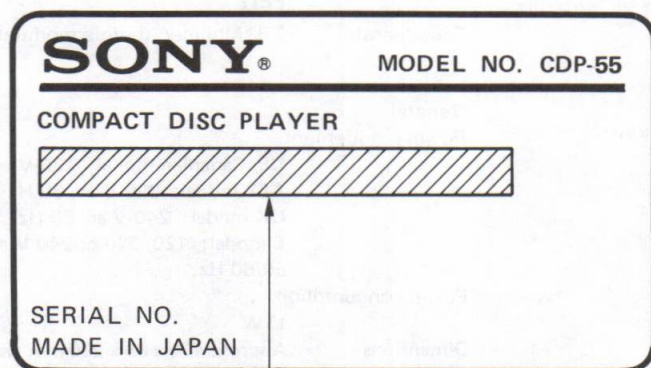
- With the Sony CDP-55 Compact Disc player, flat frequency response, low wow and flutter, wide dynamic range, minimal distortion and high channel separation are achieved.
- A true 16-bit D/A converter with two-to-one over-sampling and newly developed high-attenuation digital filters.

Various functions

- The RMS play function for playing the selections in a desired order
- The shuffle play function for playing the selections in a random order
- The index function for the quick location of the part you want
- The auto space function for giving blank space of 3 seconds between each selection
- Full repeat function for one selection, a whole disc, RMS play, shuffle play and a particular portion

MODEL IDENTIFICATION

— Printed Specifications on Jack Plate —



US, Canadian model: AC: 120 V ~ 60 Hz 13 W

AEP model: AC: 220 V ~ 50/60 Hz 13 W

UK model: AC: 240 V ~ 50/60 Hz 13 W

E model: AC: 120, 220, 240 V ~ 50/60 Hz 13 W

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TROUBLE CHECKS

The following checks will assist in the correction of most problems which you may encounter with your unit. Before going through the check list, first refer back to the connection and operating procedures.

Play does not begin.

- The **|| PAUSE** button is engaged.
- Moisture condensation .
- The disc is incorrectly inserted.

No audio from one or both channels.

- Incorrect connections.

Playback does not start from the specified point when the **INDEX** buttons are pressed.

- The disc has no index number.
- The disc does not have the index number you have chosen.

SAFETY CHECK-OUT (US Model)

After correcting the original service problem, perform the following safety check before releasing the set to the customer:

Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

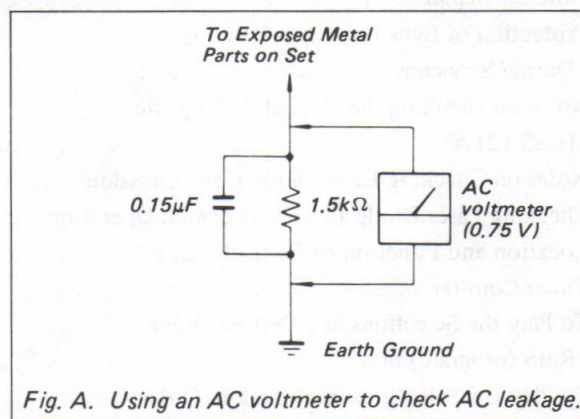


Fig. A. Using an AC voltmeter to check AC leakage.

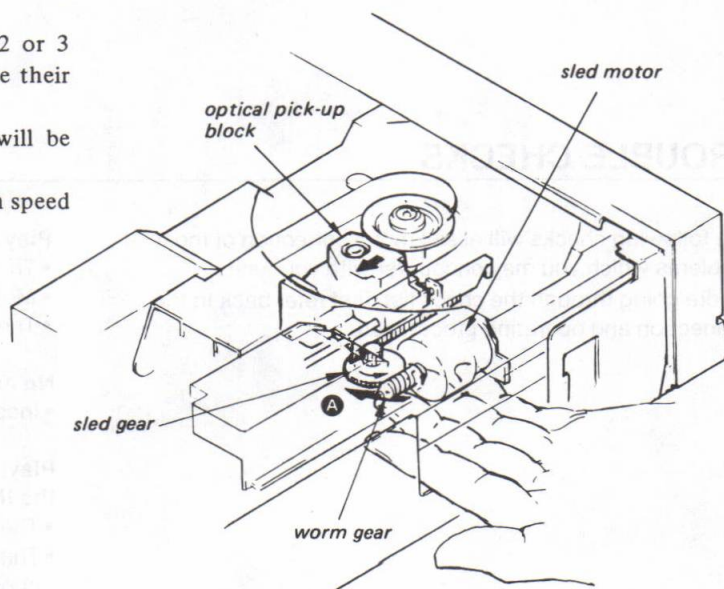
NOTE ON REPAIR

If optical pick-up block goes inward too much, worm gear of sled motor and sled gear may bite excessively each other.

In this time, turn worm gear of sled motor 2 or 3 times in the direction of arrow **A** and release their bite.

If starting disc playing without release, disc will be ejected.

In this time, spindle motor may turn at a high speed and run away.



PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs a laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING !!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION, BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 25 cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.

CAUTION:

The use of optical instrument with this product will increase eye hazard.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

1. Laser Diode Properties

- Material: GaAlAs
- Wavelength: 780 nm
- Emission Duration: continuous
- Laser Output: max. 0.4 mW*

* This output is the value measured at a distance of about 1.6 mm from the objective lens surface on the Optical Pick-up Block.

- Classification: Class IIIb

2. During service, do not take the Optical Pick-up Block apart, and do not adjust the APC circuit. If there is a breakdown in the APC circuit (including laser diode), replace the entire Optical Pick-up Block (including APC board).

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BESKYTTELSE AF ØJNE MOD LASERSTRÅLING UNDER SERVICE

I dette apparat anvendes laserlys. Derfor skal nedenstående instruktioner nøje følges under service.

Følg iøvrigt instruktionerne i servicemanualen.

ADVARSEL!!

Under service må øjnene ikke komme nær objektiv-linsen på den optiske pick-up enhed. I tilfælde af at det er nødvendigt at kontrollere udsendelsen af laserlys, skal det ske i en afstand af mere end 25 cm fra den optiske pick-up.

1. Laser-dioe data

- Materiale: GaAlAs
- Bølgelængde: 780 nm
- Udstråling: Kontinuerlig
- Laseroutput: Max. 0,4 mW*

* Målt i 1,6 mm afstand fra overfladen af objektiv-linsen på den optiske pick-up enhed.

- Klassifikation: Klasse IIIb.

2. Adskil aldrig den optiske pick-up enhed under service, og juster ikke APC kredsløbet (Automatic Power Control). Hvis APC kredsløbet (incl. laser-dioden) bryder ned, skal hele den optiske pick-up enhed (incl. APC printkortet) udskiftes.

LASER ADVARSEL MÆRKNING

Følgende mærkning findes indvendig i apparatet:

1. Advarsel Mærkning

CAUTION : INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.
ADVARSEL : USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSafbrydere er ude af funktion. UNDGÅ UDSÆTTELSE FOR STRÅLING.

4 885 841 02

VAROITUS: Laite sisältää, laserdiodin, joka lähettää (näkyvätöntä) silmille vaarallista lasersäteilyä.

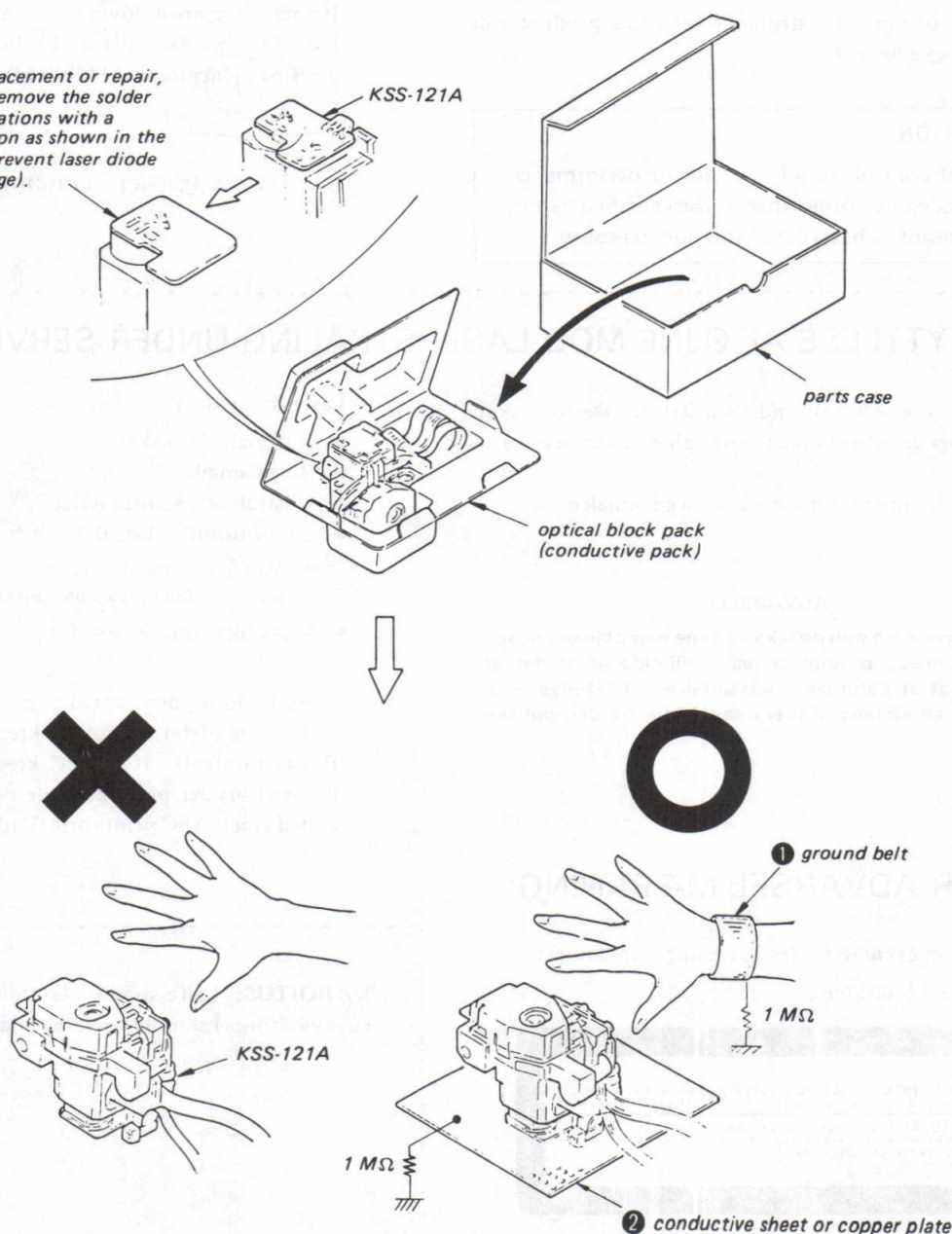
NOTES ON HANDLING THE OPTICAL BLOCK (KSS-121A)

The laser diode inside the optical block may be damaged by static electricity in clothes or the human body.

The following procedures are required when unpacking and repairing KSS-121A in order to avoid static electricity damage.

1. Body grounding
Be sure to wear a ground belt (less than $10^8 \Omega$) in order to release the static electricity stored in the body.
2. Workbench grounding
Place a conductive sheet (less than $10^9 \Omega$) or copper plate on the bench where KSS-121A is to be placed to ground it.
3. Static electricity in the clothing will not be released by the ground belt, so be careful not to let KSS-121A touch clothing.

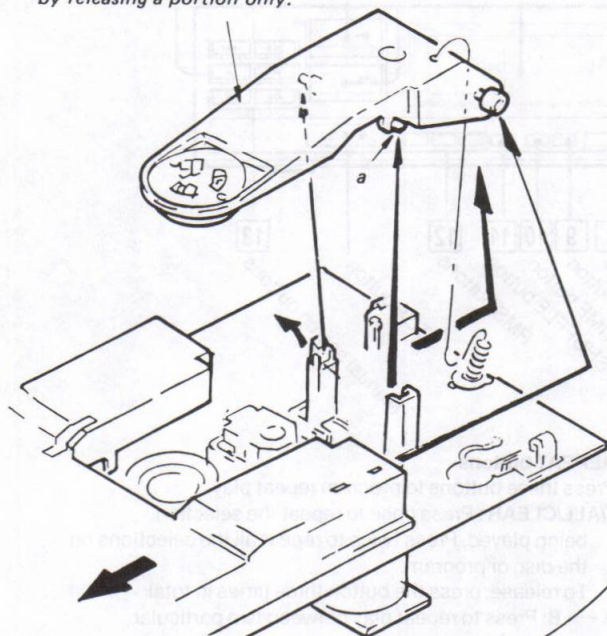
During replacement or repair, be sure to remove the solder at these locations with a soldering iron as shown in the figure (to prevent laser diode static damage).



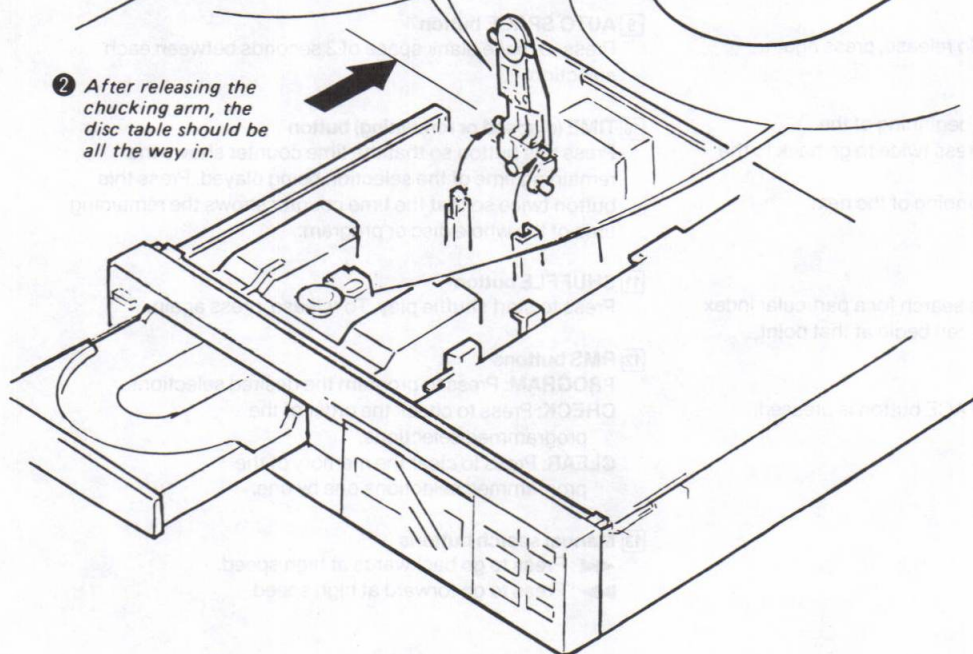
NOTES ON CHECKING LASER DIODE LIGHT EMISSION

The laser beam on this set is converged by the objective lens in the optical block so that it focuses on the disc reflective surface. Therefore, when checking light emission of the laser diode, be sure to keep the eyes more than 30 cm away from the objective lens.

- ① Release chucking arm.
This figure shows the entire chucking arm released, but checking can be done by releasing a portion only.



- ② After releasing the chucking arm, the disc table should be all the way in.



CHECKING LASER DIODE AND FOCUS SEARCH OPERATION

Check if the following operation is performed by looking at the objective lens after releasing the chucking arm and turning the POWER switch on. (Optical block should be at the innermost circumference when checking.)



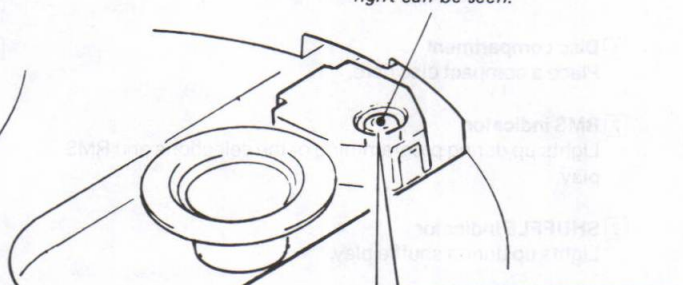
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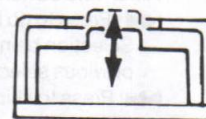
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- ③ When the POWER switch is turned on, diffused laser light can be seen.



- ④ Objective lens moves up and down (2 - 3 times)

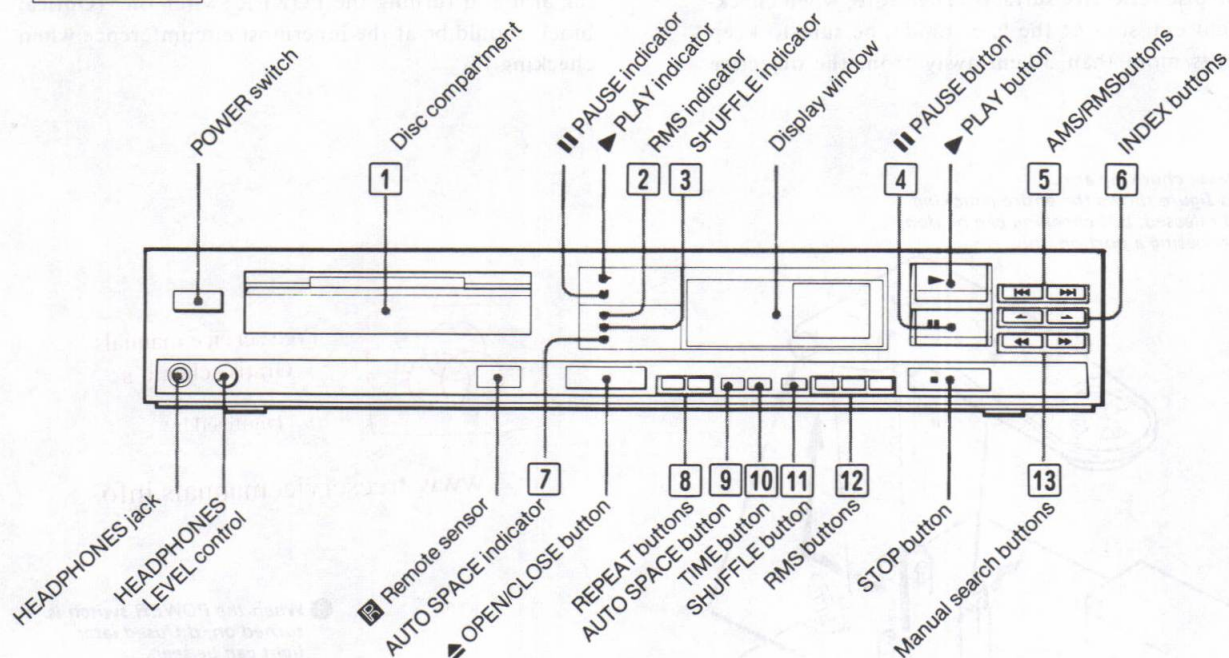


objective lens side view

LOCATION AND FUNCTION OF CONTROLS

Each number in the illustration is keyed to the descriptive text.

FRONT PANEL



1 Disc compartment

Place a compact disc here.

2 RMS indicator

Lights up during programming of the selections and RMS play.

3 SHUFFLE indicator

Lights up during shuffle play.

4 PAUSE button

Press to pause during play. To release, press again.

5 AMS/RMS buttons

◀◀: Press to go back to the beginning of the Selection being played. Press twice to go back to the previous selection.

▶▶: Press to skip to the beginning of the next selection.

6 INDEX buttons

Press either of the buttons to search for a particular index number so that the disc play can begin at that point.

7 AUTO SPACE indicator

Lights up when the AUTO SPACE button is pressed.

8 REPEAT buttons

Press these buttons to program repeat play.

1/ALL/CLEAR: Press once to repeat the selection being played. Press twice to repeat all the selections on the disc or program.

To release, press the button three times in total.

A ↔ B: Press to repeat play between two particular points.

To release, press the 1/ALL/CLEAR button.

9 AUTO SPACE button

Press to make blank space of 3 seconds between each selection.

10 TIME (elapsed or remaining) button

Press this button so that the time counter shows the remaining time of the selection being played. Press this button twice so that the time counter shows the remaining time of the whole disc or program.

11 SHUFFLE button

Press to start shuffle play. To release, press again.

12 RMS buttons

PROGRAM: Press to program the desired selections.

CHECK: Press to check the order of the programmed selections.

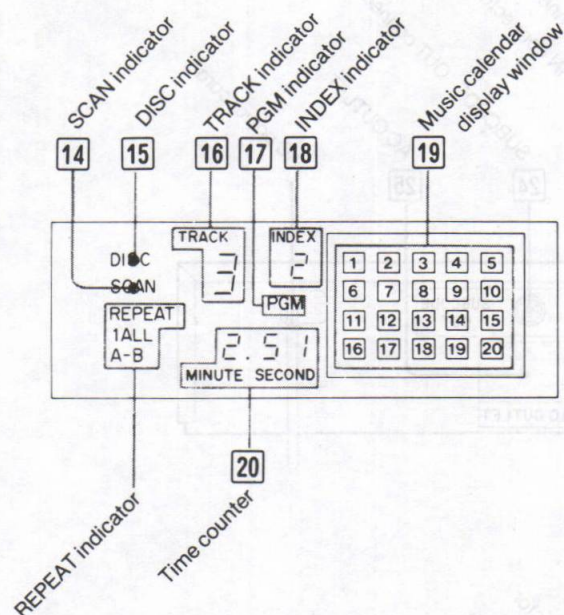
CLEAR: Press to clear the memory of the programmed selections one by one.

13 Manual search buttons

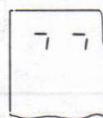
◀◀: Press to go backwards at high speed.

▶▶: Press to go forward at high speed.

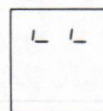
Display window



What are these indications?



This indication appears if you continuously press the ►► button at the end of the disc. To go back to TRACK indication, press the ◀◀ button.



This indication appears if you continuously press the ◀◀ button at the very beginning of the disc.

14 SCAN indicator

Lights up while the player is searching for the specified point.

15 DISC indicator

Lights up when the disc compartment is closed with a disc in place or when the disc compartment is opened.

16 TRACK indicator

Shows the track number of the selection being played. When the disc compartment is closed with a disc in place, this indicator shows the total selection number of the disc for a few seconds.

17 PGM (program) indicator

Lights up when the PROGRAM button is pressed, and goes off as soon as the RMS play begins.

18 INDEX indicator

Shows the index numbers of the selection being played. While programming or checking the selections, this indicator shows the order of the selections.

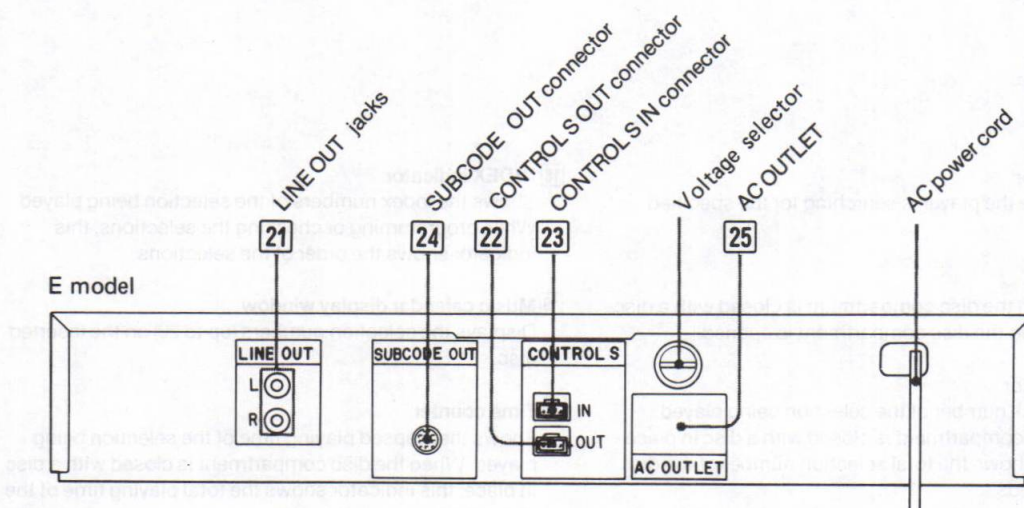
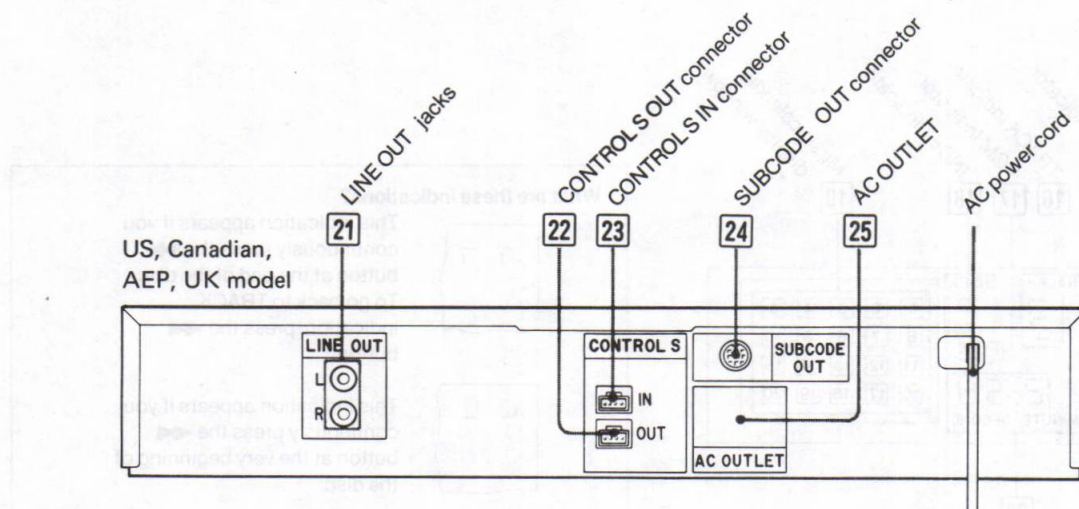
19 Music calendar display window

Displays the selection numbers (up to 20) on the inserted disc.

20 Time counter

Shows the elapsed playing time of the selection being played. When the disc compartment is closed with a disc in place, this indicator shows the total playing time of the disc for a few seconds.

REAR PANEL

**21 LINE OUT jacks**

Connect to the CD or auxiliary input jacks of the amplifier.

22 CONTROL S OUT connector

Connect to the CONTROL S IN of the optional Sony audio equipment, such as a cassette deck, to remotely control the entire audio system.

23 CONTROL S IN connector

Connect to the CONTROL S OUT of the optional Sony tuner or receiver to remotely control the entire audio system.

24 SUBCODE OUT connector

This connector is provided to extend the utility of this compact disc player by allowing for the connection of optional equipment which will be available in the future.

25 AC OUTLET

An audio component having a power consumption under 100 watts can be connected so that AC power is supplied to the component.

For UK model: The SWITCHED outlet is controlled by the POWER switch. AC power is supplied only when the CD player is turned on.

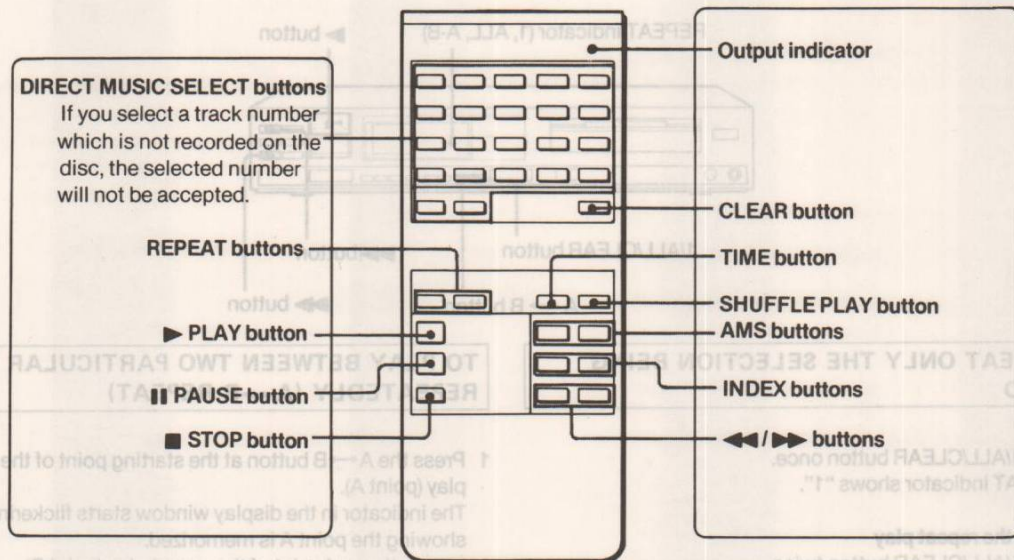
For US, Canadian, AEP, E model: The UNSWITCHED outlet is not controlled by the POWER switch.

Note

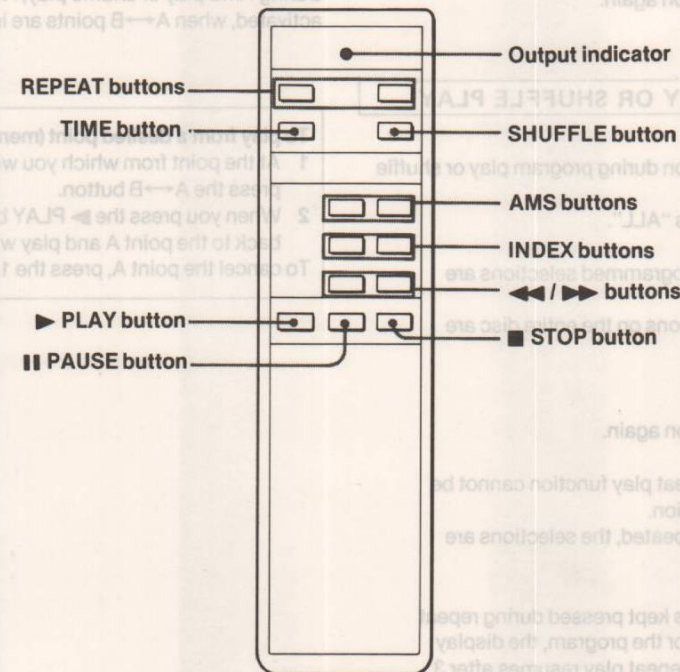
Do not connect electrical home appliances such as an electric iron, fan, TV or other high-wattage equipment to this outlet.

REMOTE COMMANDER

● RM-D150 US, Canadian model



● RM-D30 AEP, UK, E model



TIME COUNTER

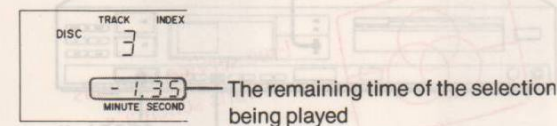
Generally, the time counter shows the elapsed playing time from the beginning of a selection in minutes and seconds.

To monitor the remaining playing time

To monitor the remaining time of the selection being played

Press the TIME button once.

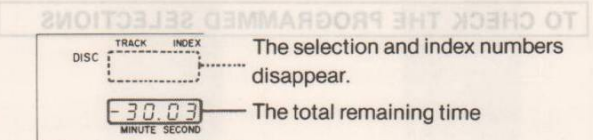
To release, press the TIME button twice.



To monitor the remaining play time of the whole disc or program

Press the TIME button twice.

To release, press the TIME button again.

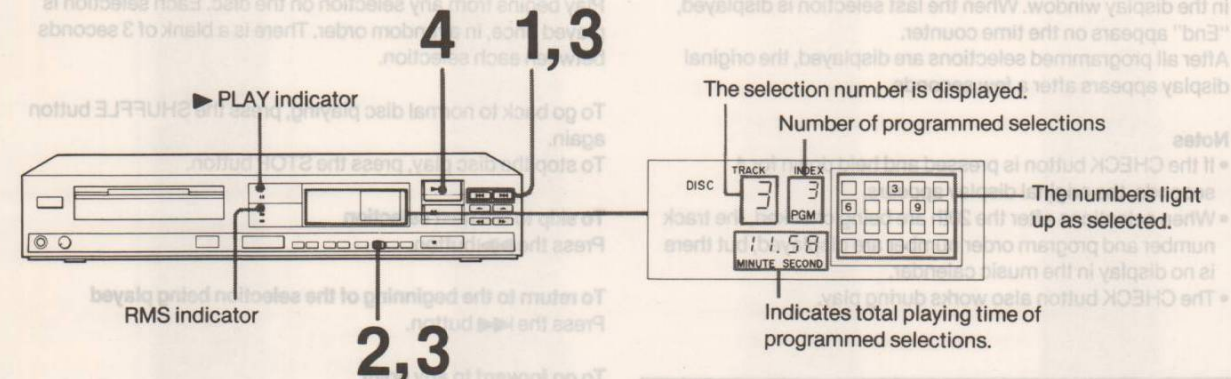


Notes

- When a disc with more than 20 selections is inserted or when the elapsed or remaining play time is more than 100 minutes, the time counter displays "----".
- During shuffle play, the total remaining time will not be displayed.

TO PLAY THE SELECTIONS IN A DESIRED ORDER —RMS (program) play

Any number of selections up to 20 can be played in your preferred order.



- 1 Choose the selection to be programmed with ◀▶ or ▶▶ button in standby mode.
- 2 Press the PROGRAM button.
The ▶ PLAY indicator starts flickering.
- 3 Repeat steps 1 and 2 to program other selections.
- 4 Press ▶ PLAY button.

When RMS play begins, the PGM indicator goes out. The INDEX indicator which displays the number of programmed selection returns to the first index number.

When a selection ends, its number disappears from the music calendar and the selection is also erased from the program memory.

To skip to the next selection

Use the ▶▶ button.

You cannot return to the previous selection.

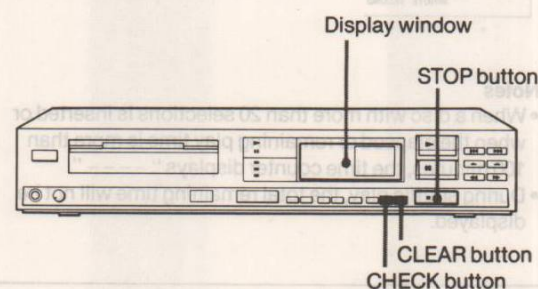
After all programmed selections are played, the memory is cleared and the player returns to the standby mode.

Notes

- For a disc with more than 20 selections, only the selection numbers up to 20 will be shown in the music calendar display window.
- The total playing time is not displayed if the selection numbered 21 or higher is programmed, instead the display shows "----".
- Three seconds of blank spaces are inserted automatically between selections except when the consecutive selections (e.g. 4th — 5th) are played.

You can program even without the disc inserted. Program with the disc compartment open. After programming place the disc in the compartment and press the ▶ PLAY button to begin play. The total playing time is calculated and displayed when you close the disc compartment by pressing either the OPEN/CLOSE button or the compartment itself.

TO CHECK THE PROGRAMMED SELECTIONS



Press the CHECK button.

The programmed selections and their order can be checked. With each press, the selection number, its order are displayed in the display window. When the last selection is displayed, "End" appears on the time counter. After all programmed selections are displayed, the original display appears after a few seconds.

Notes

- If the CHECK button is pressed and held down for 4 seconds, the original display appears.
- When selections after the 20th are being checked, the track number and program order number are displayed, but there is no display in the music calendar.
- The CHECK button also works during play.

TO CLEAR THE PROGRAMMED SELECTIONS

To clear a specific selection

- 1 Press the CHECK button repeatedly until the selection to be cleared is displayed.
- 2 Press the CLEAR button.

To clear only the selection which was programmed last

Press the CLEAR button before playing any selections. Each time the CLEAR button is pressed, the selections will be cleared one at a time in reverse order.

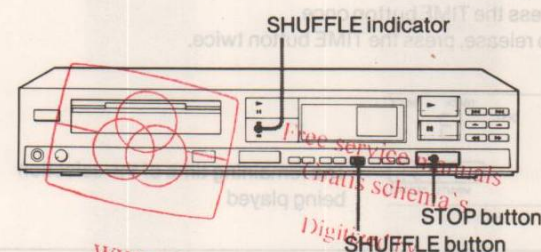
To clear all of the programmed selections

Press the STOP button before playing any selections.

Notes

- When the STOP button is pressed during play, the player is reset to the standby mode. To clear the programs, press the STOP button again.
- The selection being played cannot be cleared.
- The programs can also be cleared by pressing the OPEN/CLOSE button.

TO PLAY THE SELECTIONS IN A RANDOM ORDER—SHUFFLE PLAY



Press the SHUFFLE button.

The SHUFFLE indicator lights up.

Play begins from any selection on the disc. Each selection is played once, in a random order. There is a blank of 3 seconds between each selection.

To go back to normal disc playing, press the SHUFFLE button again.

To stop the disc play, press the STOP button.

To skip to the next selection

Press the ►► button.

To return to the beginning of the selection being played

Press the ◀◀ button.

To go forward to any point

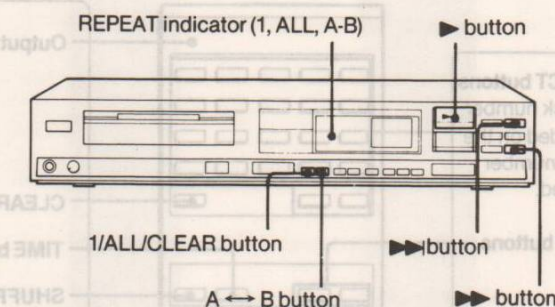
Press the ►► button.

You cannot return to a previous selection.

- Shuffle play does not operate if the disc compartment is open.
- On discs with more than 20 selections, all selections will be shuffle played although the music calendar display window shows only the selection number up to 20.

REPEAT PLAY

Using the REPEAT buttons, you can repeat the selection being played, the whole disc, RMS play, shuffle play, and a particular portion of the disc.



TO REPEAT ONLY THE SELECTION BEING PLAYED

Press the 1/ALL/CLEAR button once. The REPEAT indicator shows "1".

To release the repeat play

Press the 1/ALL/CLEAR button twice.

TO REPEAT THE WHOLE DISC

Press the 1/ALL/CLEAR button twice. The REPEAT indicator shows "ALL".

To release the repeat play

Press the 1/ALL/CLEAR button again.

TO REPEAT RMS PLAY OR SHUFFLE PLAY

Press the 1/ALL/CLEAR button during program play or shuffle play. The REPEAT indicator shows "ALL".

During RMS play all of the programmed selections are repeated.

During shuffle play all selections on the entire disc are repeated.

To release the repeat play

Press the 1/ALL/CLEAR button again.

- During shuffle play, the repeat play function cannot be activated for a single selection.
- Each time shuffle play is repeated, the selections are reshuffled.

When the ►► or ►► button is kept pressed during repeat play until the end of the disc or the program, the display window shows "—0.03", and repeat play resumes after 3 seconds.

TO PLAY BETWEEN TWO PARTICULAR POINTS REPEATEDLY (A↔B REPEAT)

- 1 Press the A↔B button at the starting point of the repeat play (point A). The indicator in the display window starts flickering showing the point A is memorized.
- 2 Locate the end point of the repeat play (point B).
- 3 Press the A↔B button again. The indicator lights up showing the point B is memorized.

The disc will go back to point A, and the repeat play starts.

To release the repeat play

Press the 1/ALL/CLEAR button.

Note

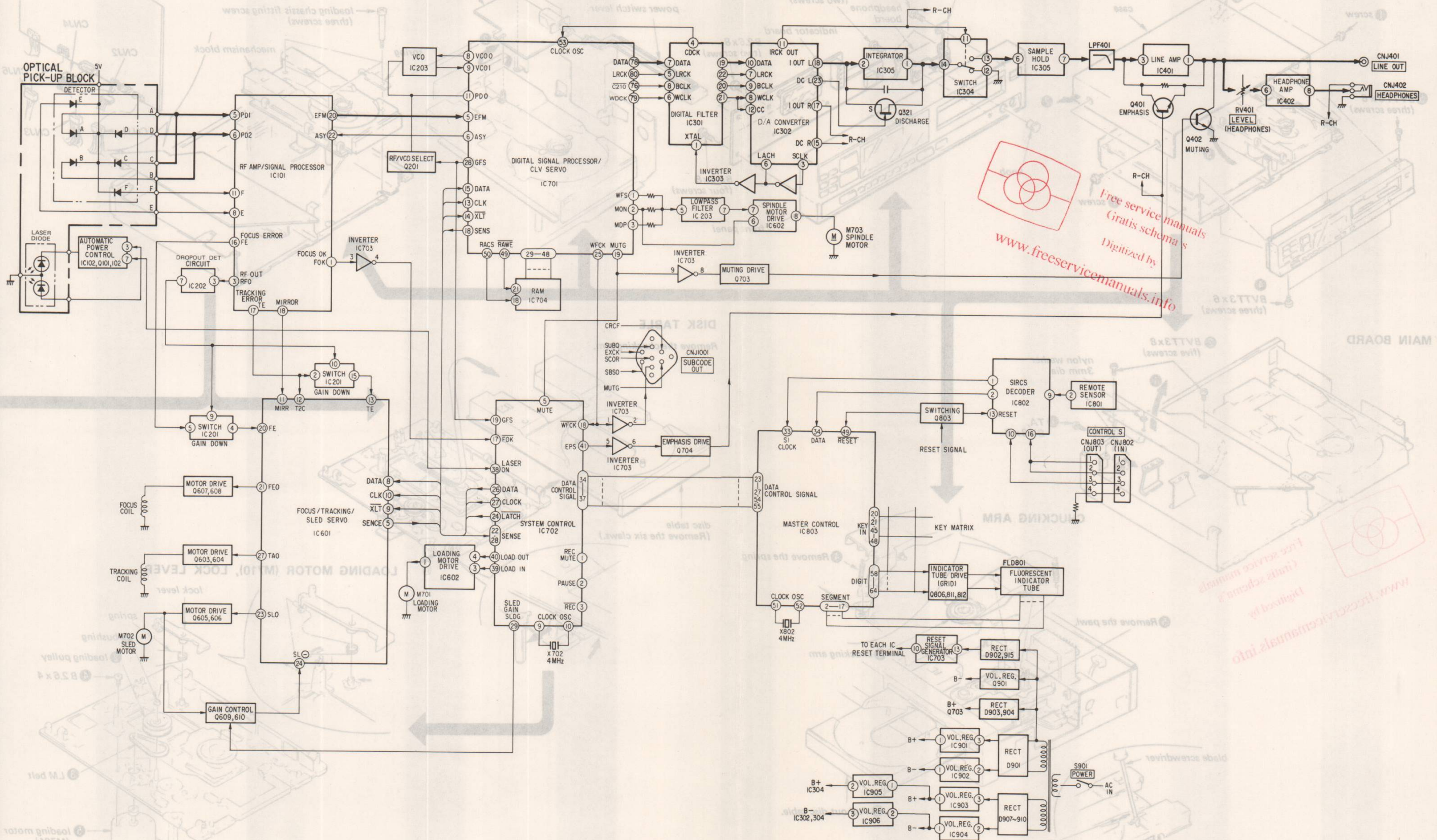
During RMS play or shuffle play, A↔B repeat play cannot be activated, when A↔B points are in different selections.

To play from a desired point (memory play)

- 1 At the point from which you wish to listen later (point A), press the A↔B button.
- 2 When you press the ►► PLAY button, the disc will go back to the point A and play will restart.

To cancel the point A, press the 1/ALL/CLEAR button.

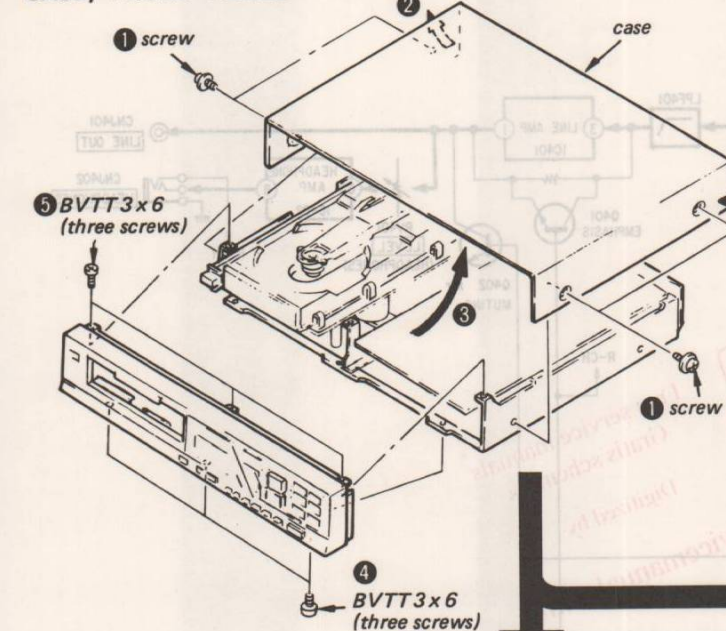
SECTION 1 BLOCK DIAGRAM



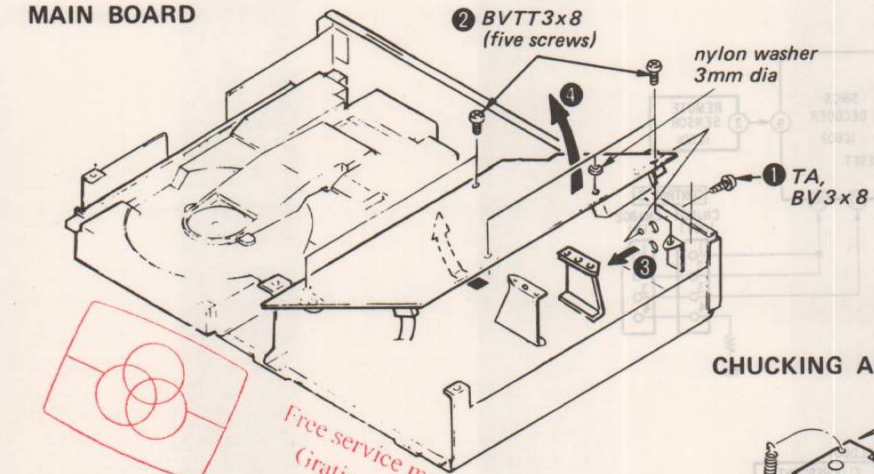
SECTION 2
DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

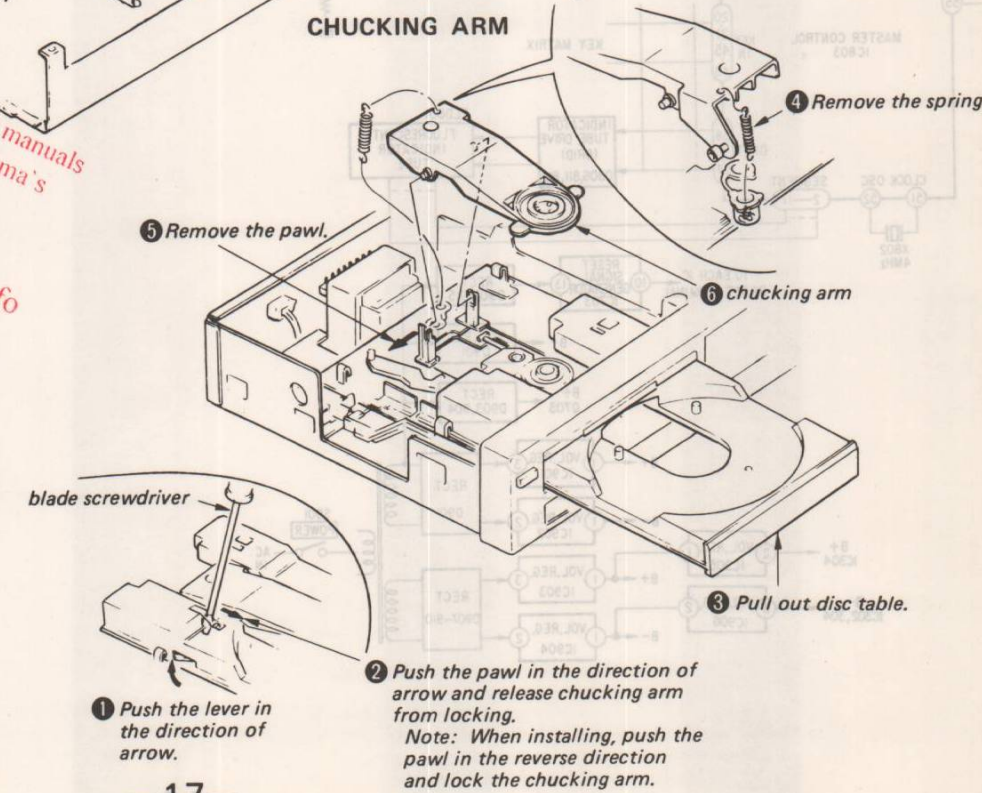
CASE, FRONT PANEL



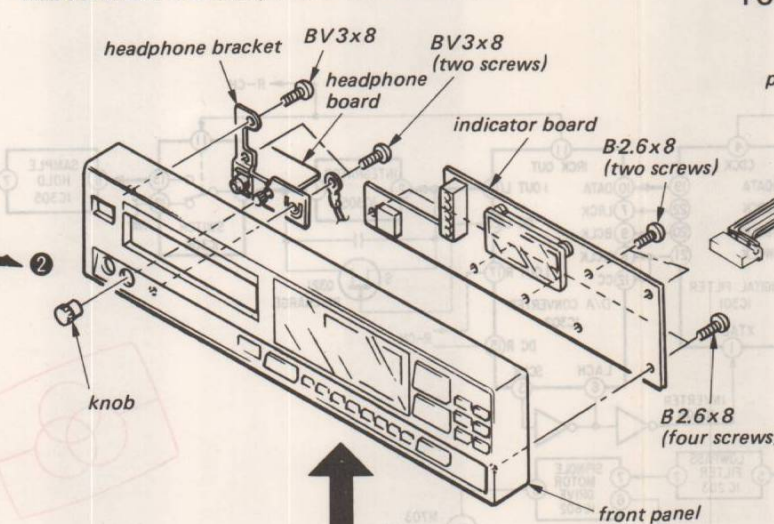
MAIN BOARD



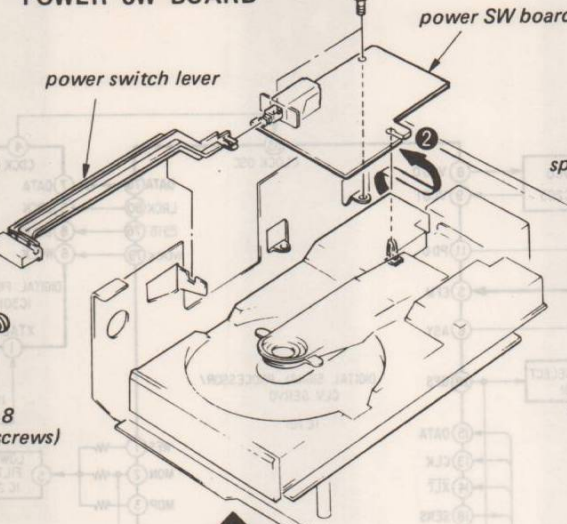
CHUCKING ARM



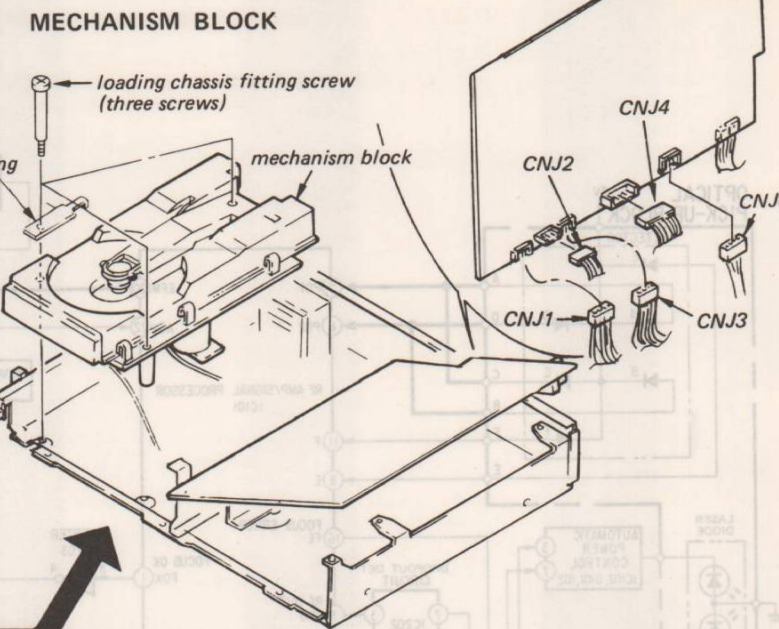
INDICATOR BOARD, HEADPHONE BOARD



POWER SW BOARD

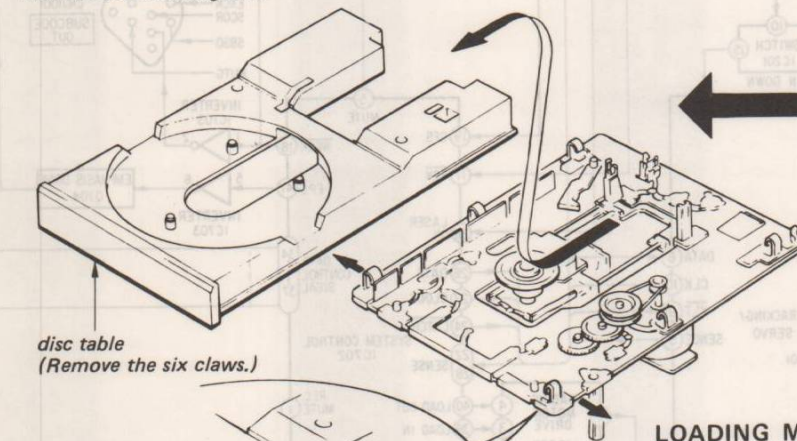


MECHANISM BLOCK

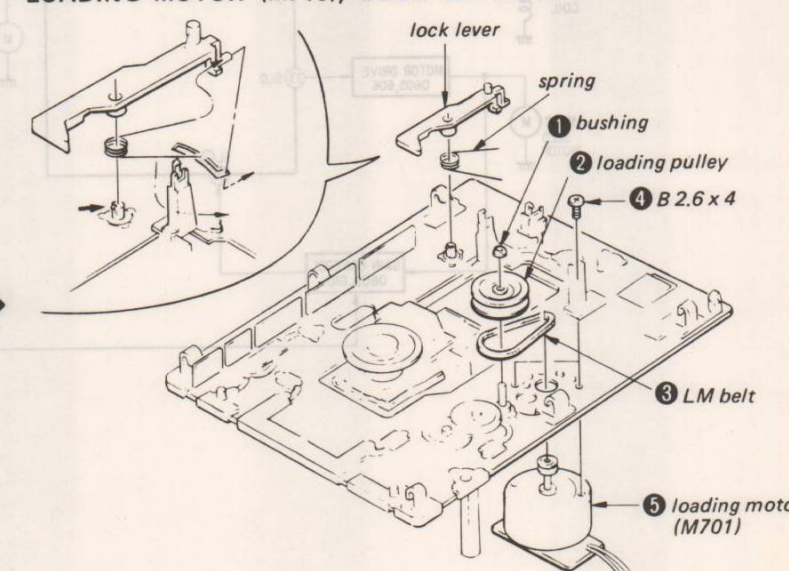


DISK TABLE

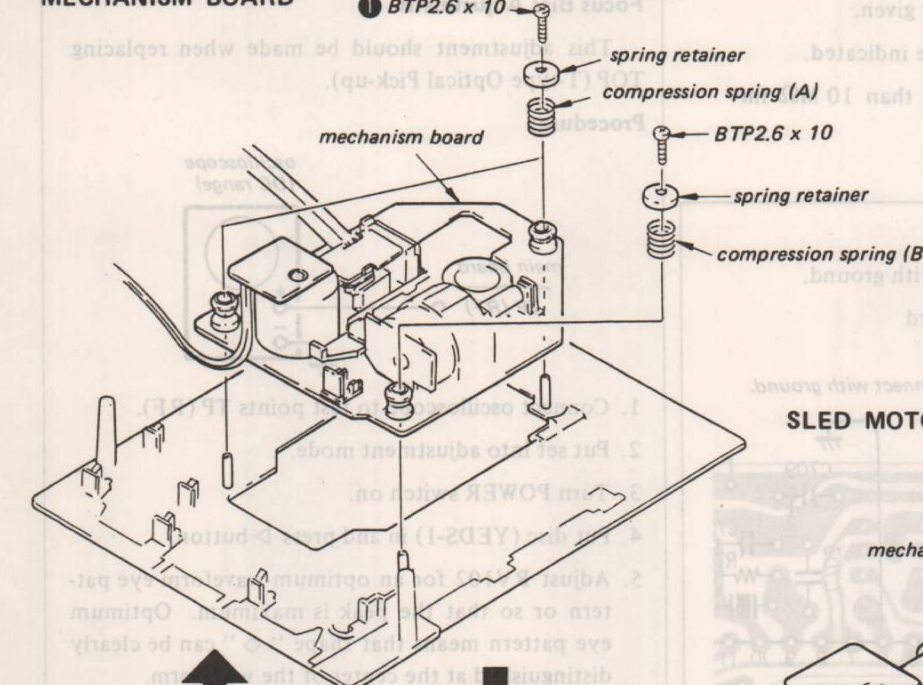
Remove the chucking arm.



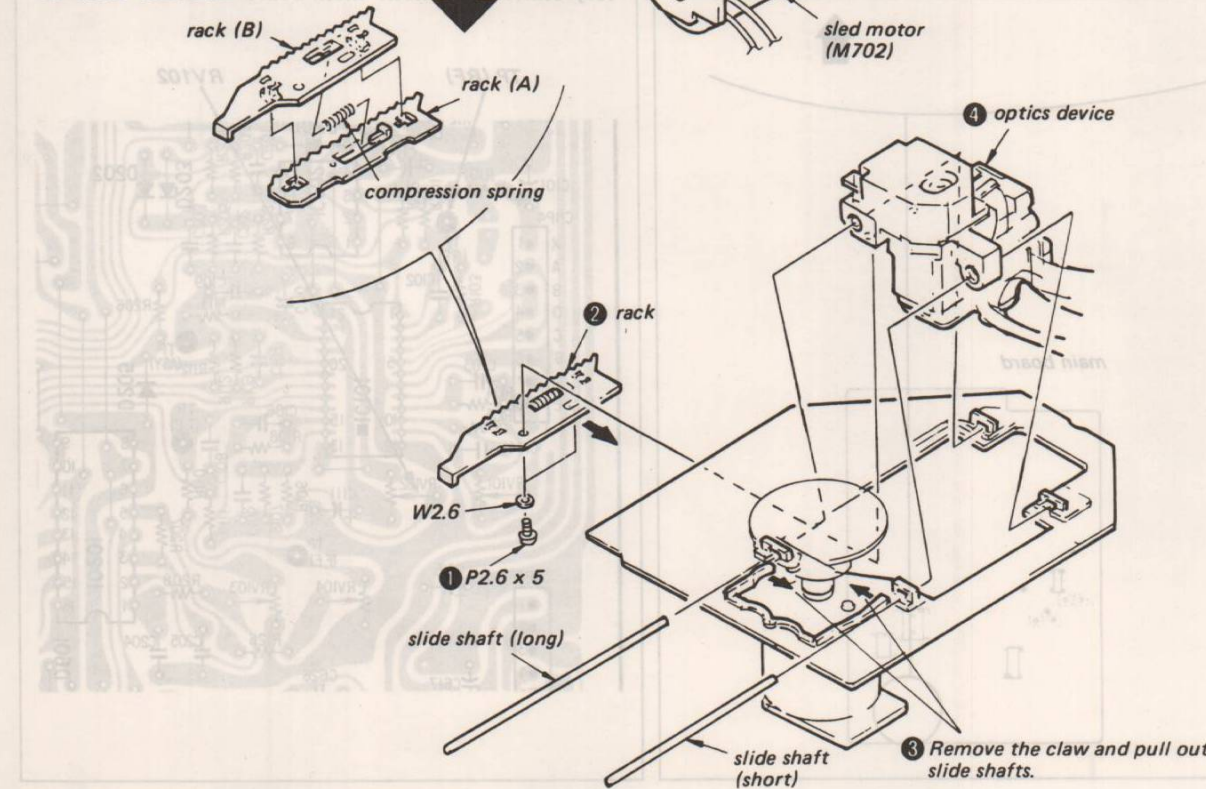
LOADING MOTOR (M710), LOCK LEVER



MECHANISM BOARD



OPTICS DEVICE



SECTION 3 ADJUSTMENTS

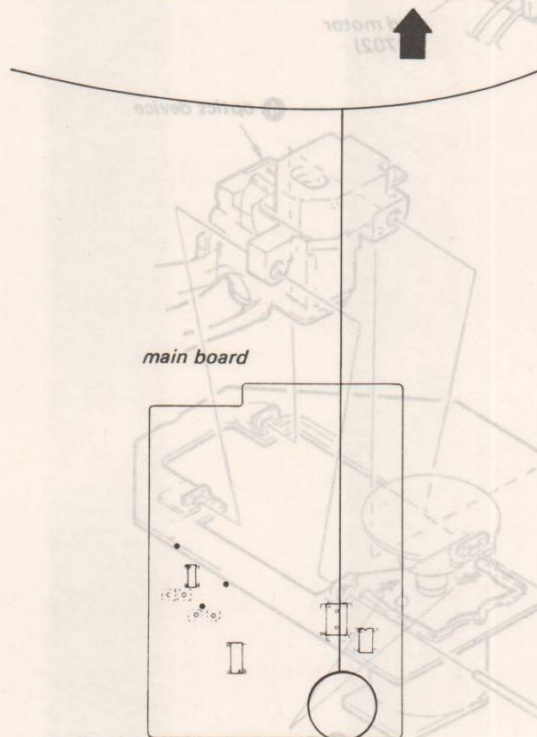
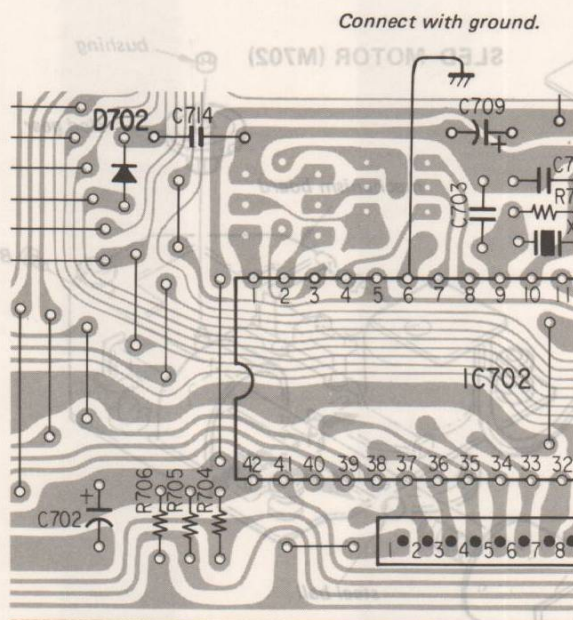
ELECTRICAL ADJUSTMENTS

1. Perform adjustments in the order given.
2. Use YEDS-1 disc unless otherwise indicated.
3. Use the oscilloscope with more than 10 M Ω impedance.

Adjustment Mode

Connect terminal ⑥ of IC702 with ground.

Connecting Location: main board



Focus Bias Adjustment

This adjustment should be made when replacing TOP (T-type Optical Pick-up).

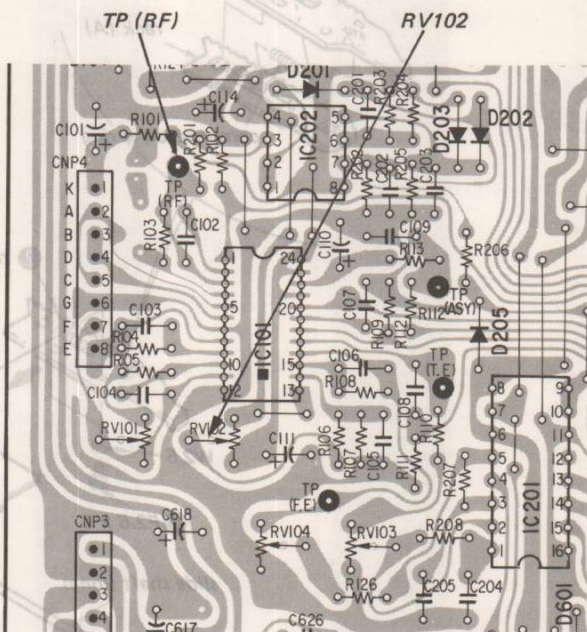
Procedure:

1. Connect oscilloscope to test points TP (RF).
2. Put set into adjustment mode.
3. Turn POWER switch on.
4. Put disc (YEDS-1) in and press $\triangleright$ button.
5. Adjust RV102 for an optimum waveform eye pattern or so that the peak is maximum. Optimum eye pattern means that shape "◇" can be clearly distinguished at the center of the waveform.

RF signal waveform

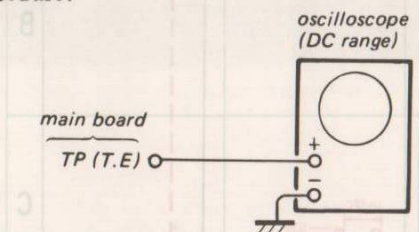


Adjustment Location: main board

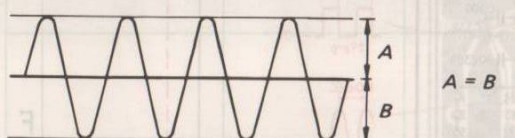


E-F Balance Adjustment

This adjustment should be made when replacing TOP (T-type Optical Pick-up).

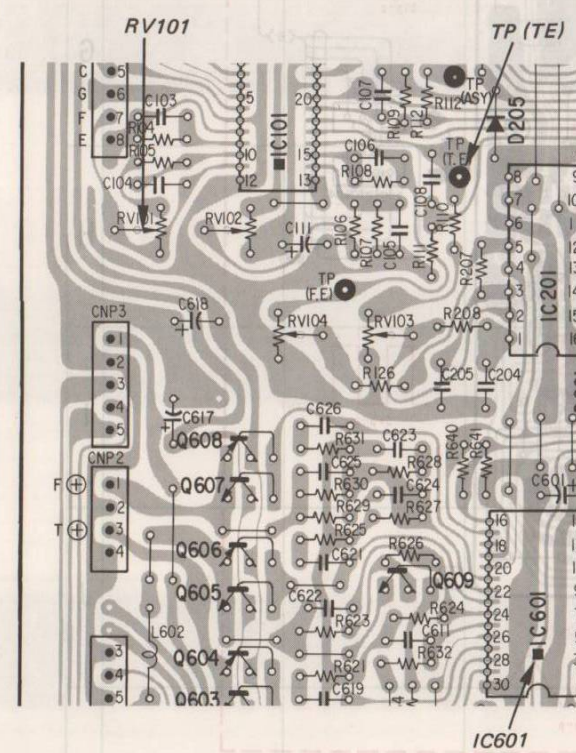
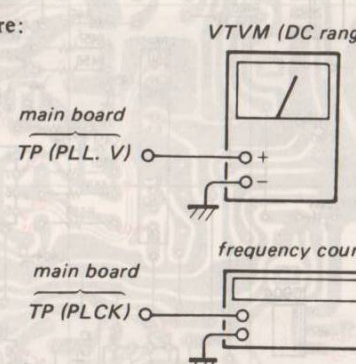
Procedure:

1. Connect oscilloscope to test point TP (T.E).
2. Put set into adjustment mode. (See page 18.)
3. Turn POWER switch on.
4. Put disc (YEDS-1) in and press ▷ button.
5. Connect terminal ⑬ of IC601 to ground with lead wire.
6. Adjust RV101 so that the traverse waveform is symmetrical above and below.
7. After adjustment, cancel the adjustment mode and remove the lead wire connected in step 5.



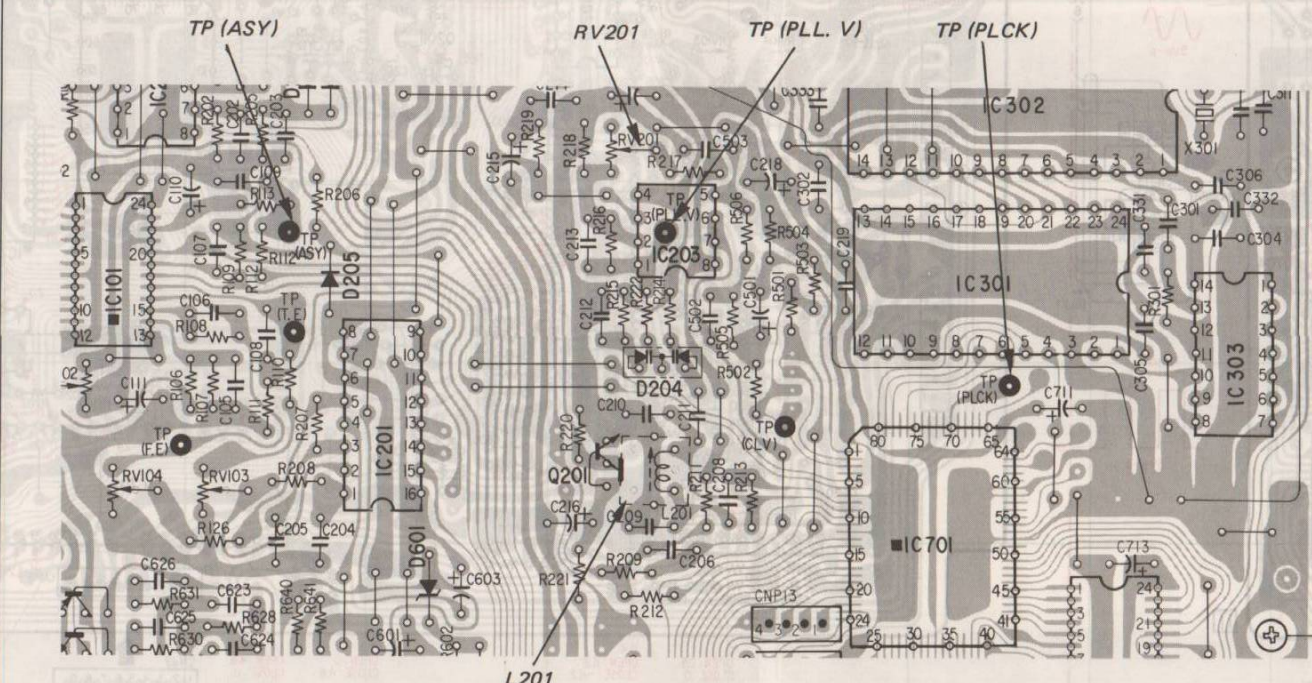
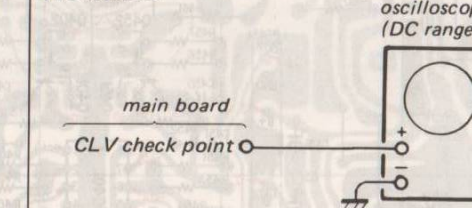
VOLT/DIV: 1 V
TIME/DIV: 1 ms

Adjustment Location: main board

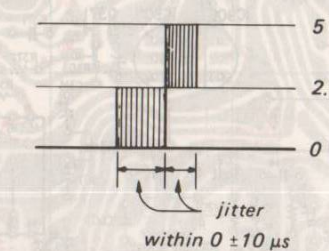
**RF PLL Frequency Adjustment /Lock Frequency Check****Procedure:**

1. Connect test point TP (ASY) to ground with lead wire.
2. Connect VTVM to test points TP (PLL. V).
3. Turn POWER switch on.
4. Adjust RV201 so that the reading on VTVM is 0 ±50 mV.
5. Connect the frequency counter to test points TP (PLCK).
6. Adjust L201 so that the reading on frequency counter is 4.3218 MHz.
7. Remove lead wire connecting TP (ASY) and ground.
8. Put disc (YEDS-1) in and press ▷ button.
9. Confirm that the reading on frequency counter is 4.3218 MHz.

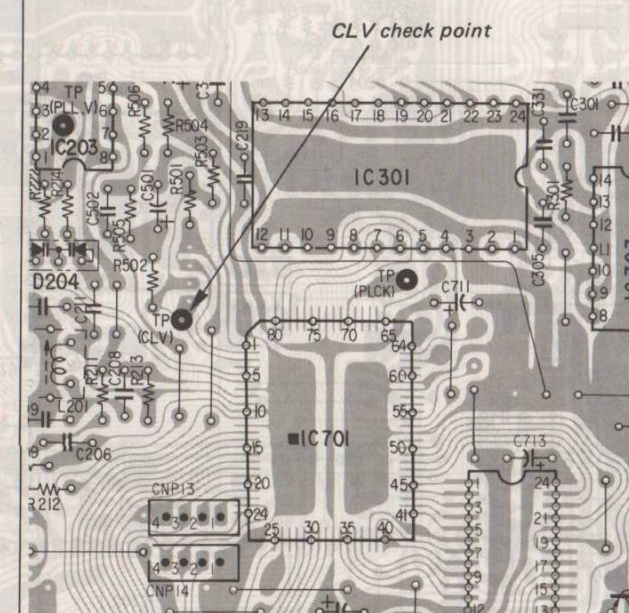
Adjustment Location: main board

**CLV Phase Lock Check****Procedure:**

1. Connect oscilloscope to CLV check point IC701 pin ③.
2. Turn POWER switch on.
3. Put disc (YEDS-1) in and press ▷ button.
4. Check that the waveform is as shown in the figure below.



Adjustment Location: main board

**REFERENCE****Focus/Tracking Gain Adjustment**

A frequency response analyzer is necessary in order to perform this adjustment exactly.

However, this gain has a margin, so even if it is slightly off, there is no problem. Therefore, do not perform this adjustment.

Focus/tracking gain determines the pick-up follow-up (vertical and horizontal) relative to mechanical noise and mechanical shock when the 2-axis device operates.

However, as these reciprocate, the adjustment is at the point where both are satisfied.

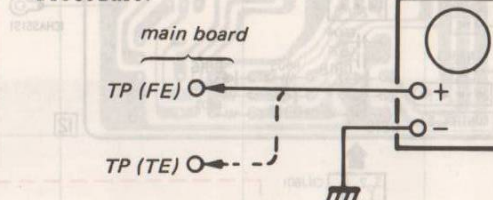
- When gain is raised, the noise when the 2-axis device operates increases.
- When gain is lowered, it is more susceptible to mechanical shock and skipping occurs more easily.
- When gain adjustment is off, the symptoms below appear.

Symptoms	Gain	Focus	Tracking
• The time until music starts becomes longer for STOP → ▷PLAY or automatic selection (◀▶) buttons pressed. (Normally takes about 2 seconds.)		low	low or high
• Music does not start and disc continues to rotate for STOP → ▷PLAY or automatic selection (◀▶) buttons pressed.)		—	low
• Disc table opens shortly after STOP → ▷PLAY.	low or high	—	—
• Sound is interrupted during PLAY. Or time counter or display stops progressing.	—	—	low
• More poise during 2-axis device operation.	high	high	high

The following is a simple adjustment method.

Simple Adjustment

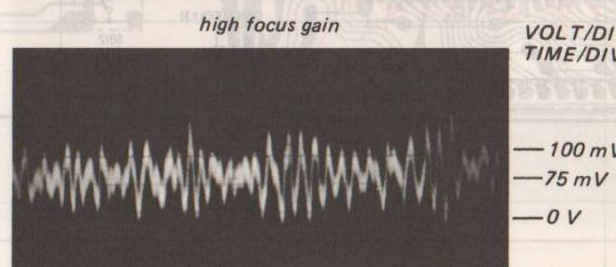
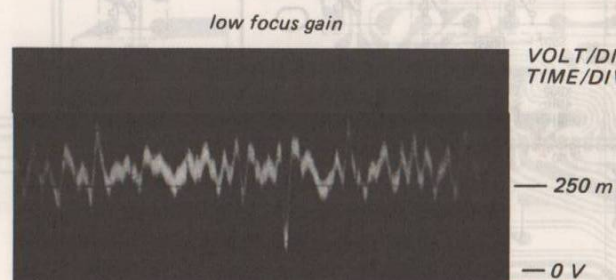
Note: Since exact adjustment cannot be performed, remember the positions of the controls before performing the adjustment. If the positions after the simple adjustment are only a little different, return the controls to the original position.

Procedure:

1. Keep the set horizontal.
(If the set is not horizontal, this adjustment cannot be performed due to the gravity against the 2 axis device.)
2. Insert disc (YEDS-1) and press ▷PLAY button.
3. Connect oscilloscope to main amp board TP (FE).
4. Adjust RV104 so that the waveform is as shown in the figure below. (focus gain adjustment)



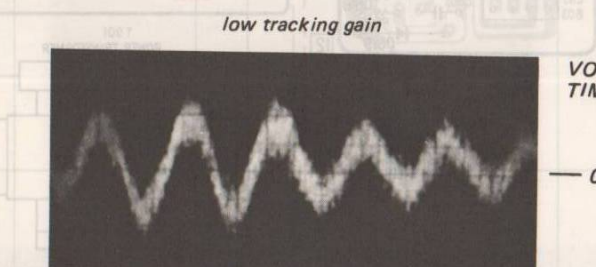
- Inccrnt Examples (DC level changes more than on adjusted waveform)



5. Connect oscilloscope to main board TP (TE).
6. Adjust RV103 so that the waveform is as shown in the figure below. (tracking gain adjustment)



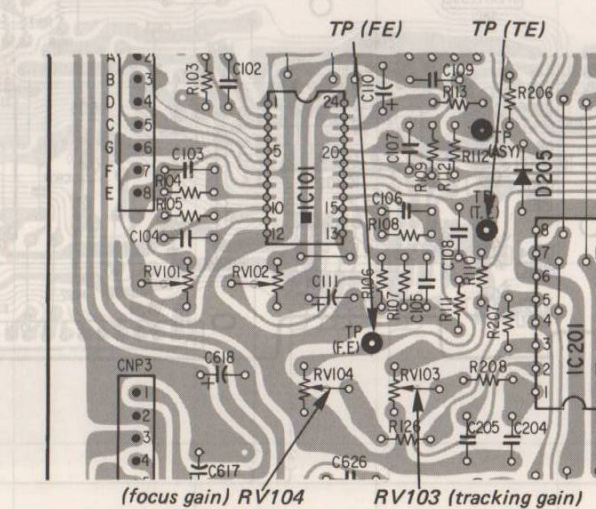
- Incorrect Examples (fundamental wave appears)



- high tracking gain (higher fundamental wave than for low gain)



Adjustment Location: main board

**Semiconductor Location**

Ref. No.	Location		Ref. No.	Location	
	Former Type	New Type		Former Type	New Type
D101	E-16	E-24	Q101	E-17	E-25
D201	E-17	E-25	Q102	E-17	E-25
D202	E-18	E-26	Q201	G-19	G-27
D203	E-18	E-26	Q321	D-30	D-28
D204	F-20	F-27	Q371	D-20	D-28
D205	F-18	F-26	Q401	B-21	B-29
D601	G-18	G-26	Q402	B-21	B-29
D702	I-20	I-27	Q451	B-21	B-29
D801	J-6	J-6	Q452	B-21	B-29
D802	I-6	I-6	Q603	I-17	I-25
D804	J-6	J-6	Q604	H-17	H-25
D805	I-6	I-6	Q605	H-17	H-25
D806	I-6	I-6	Q606	H-17	H-25
D810	H-10	H-10	Q607	H-17	H-25
D814	H-10	H-10	Q608	G-17	G-25
D815	H-10	H-10	Q609	H-18	H-26
D816	C-6 (E MODEL)	C-6 (E MODEL)	Q610	I-18	I-26
D817	C-11 (EXCEPT E MODEL)	C-6 (E MODEL)	Q703	H-22	H-30
D818	C-6 (E MODEL)	C-11 (EXCEPT E MODEL)	Q704	H-22	H-30
D819	C-11 (EXCEPT E MODEL)	D-6 (E MODEL)	Q803	I-8	I-8
	D-6 (E MODEL)	C-11 (EXCEPT E MODEL)	Q806	I-11	I-11
	D-11 (EXCEPT E MODEL)	D-6 (E MODEL)	Q811	I-11	I-11
			Q812	I-11	I-11
			Q901	C-17	C-24
D901	B-17	B-25			
D902	B-17	B-24			
D903	B-17	B-25			
D904	B-17	B-25			
D905	C-17	C-25			
D906	D-17	D-25			
D907	B-19	B-26			
D908	B-19	B-26			
D909	B-19	B-27			
D910	B-18	B-26			
D911	C-17	C-25			
D912	C-17	C-24			
D913	C-17	C-25			
D914	B-16	B-24			
D915	B-17	B-25			
IC101	F-17	F-25			
IC102	D-17	D-25			
IC201	G-18	G-26			
IC202	E-17	E-25			
IC203	F-20	F-27			
IC301	F-21	F-29			
IC302	E-21	E-29			
IC303	F-22	F-30			
IC304	D-21	D-29			
IC305	D-22	D-30			
IC355	D-20	D-28			
IC401	C-21	C-29			
IC402	J-3	J-3			
IC601	H-18	H-26			
IC602	J-17	J-25			
IC701	G-21	G-29			
IC702	I-21	I-29			
IC703	I-22	I-30			
IC704	H-22	H-29			
IC801	H-4	H-4			
IC802	I-7	I-7			
IC803	I-9	I-9			
IC901	D-19	D-26			
IC902	D-18	D-26			
IC903	B-19	B-27			
IC904	C-19	C-27			
IC905	D-20	E-28			
IC906	D-19	D-27			

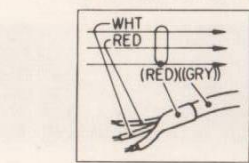
SECTION 4

DIAGRAMS

4-1. MOUNTING DIAGRAM

Note:

- Color code of sleeving over the end of the jacket.



- Parts extracted from the component side.
- Parts extracted from the conductor side.
- Part mounted on the conductor side.

Note: SCHEMATIC DIAGRAM

- All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $1/4\text{W}$ or less unless otherwise specified.
- % indicates tolerances.
- Signal path.
- B+ bus.
- B- bus.
- Adjustment for repair.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal conditions with a VOM (50 $\text{k}\Omega/\text{V}$).
no mark: STOP mode
() : CD playing mode
- Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken to ground in STOP mode by using oscilloscope.
Voltage variations may be noted due to normal production tolerances.

Switches

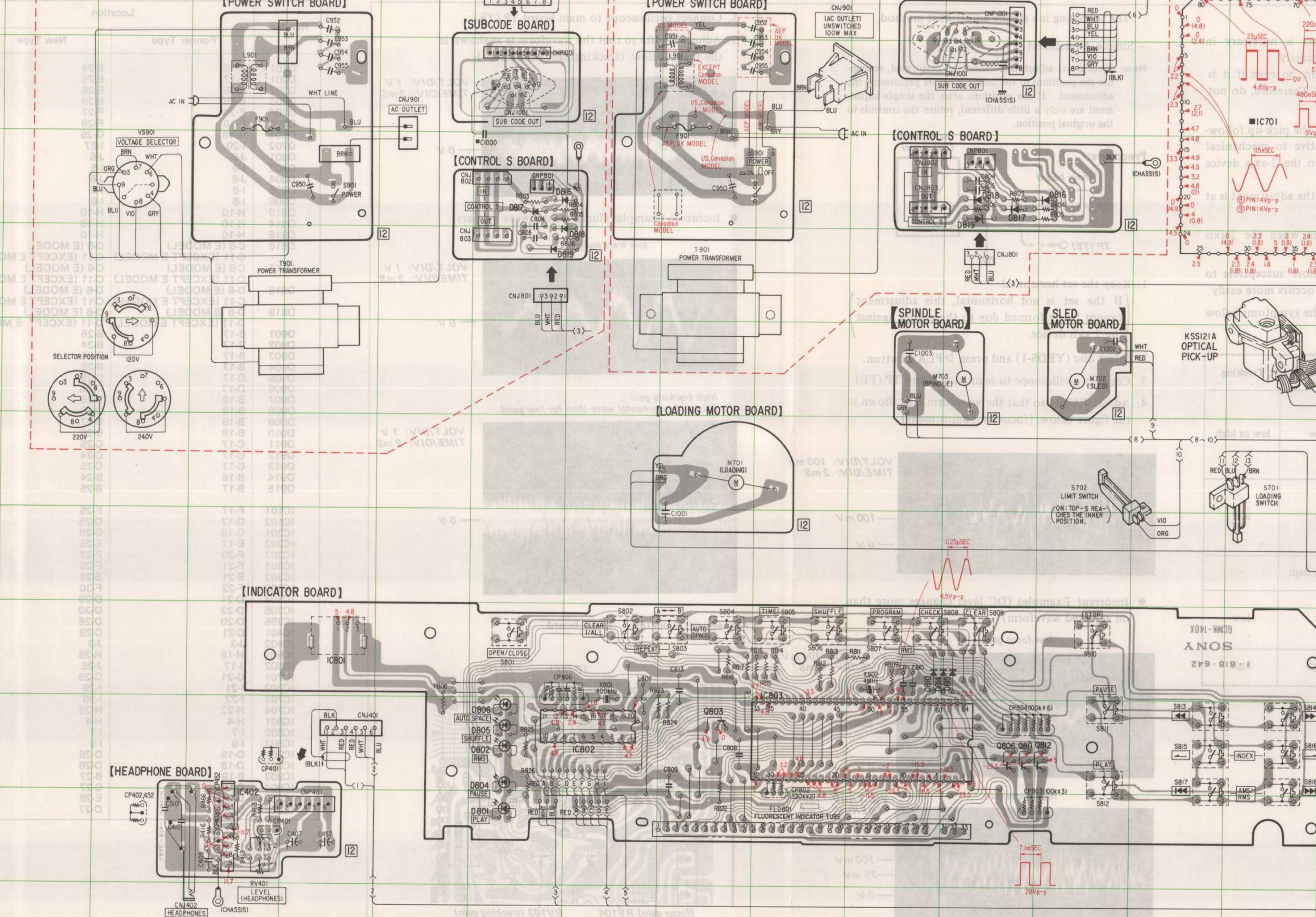
Ref. No.	Switch	Position
S701	LOADING	IN
S702	LIMIT	ON
S801	OPEN/CLOSE	OFF
S802	CLEAR REPEAT	OFF
S803	A-B REPEAT	OFF
S804	AUTO SPACE	OFF
S805	TIME	OFF
S806	SHUFFLE	OFF
S807	PROGRAM RMS	OFF
S808	CHECK RMS	OFF
S809	CLEAR RMS	OFF
S810	STOP	OFF
S811	PAUSE	OFF
S812	PLAY	OFF
S813	INDEX	OFF
S814	INDEX	OFF
S815	INDEX	OFF
S816	INDEX	OFF
S817	AMS/RMS	OFF
S818	AMS/RMS	OFF
S901	POWER	OFF
VS901	VOLTAGE SELECTOR (E model)	-

Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

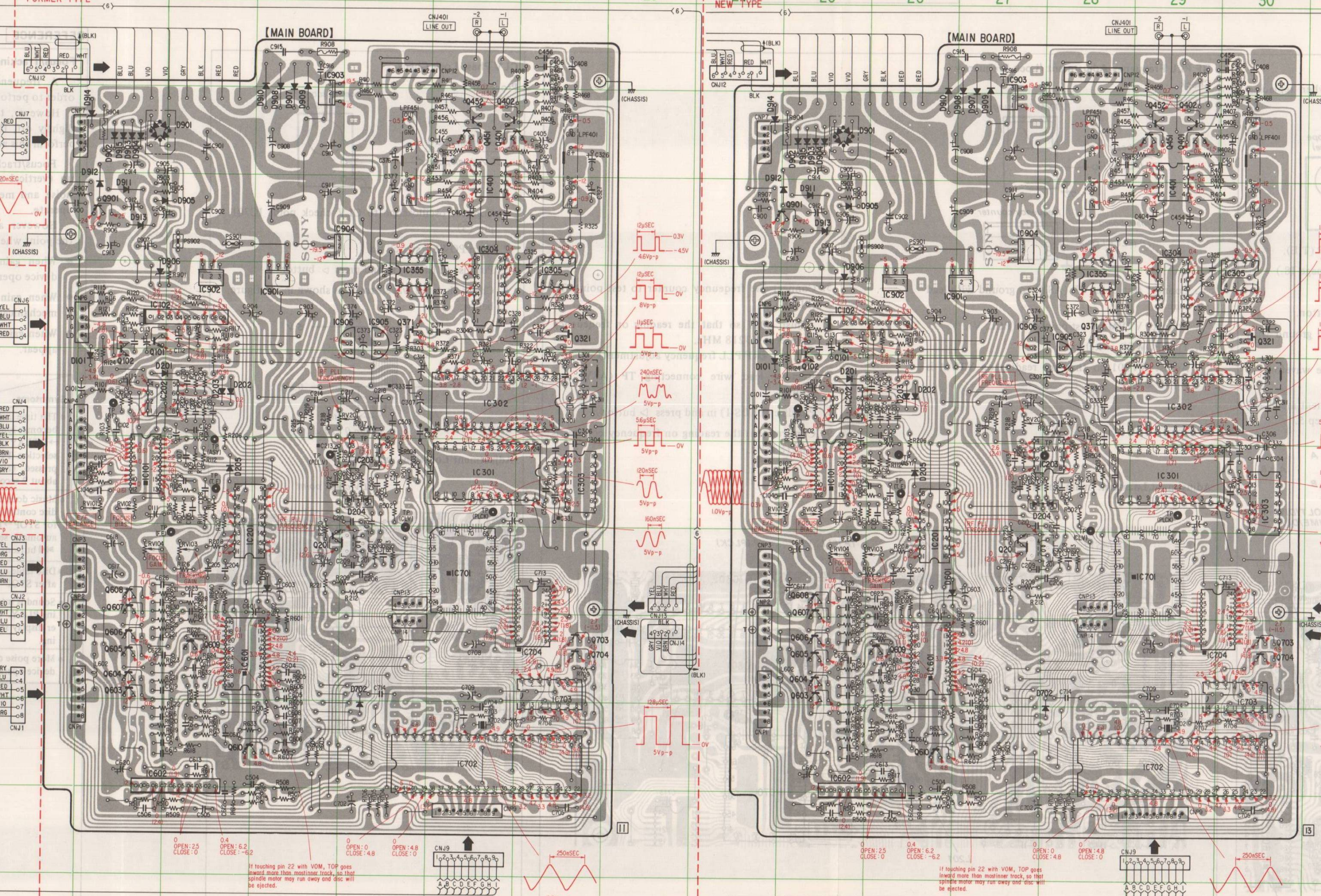
Note: Les composants identifiés par une trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- See page 25 for Semiconductor Location.
- See page 37 for Circuit Board Location and Semiconductor Lead Layouts.

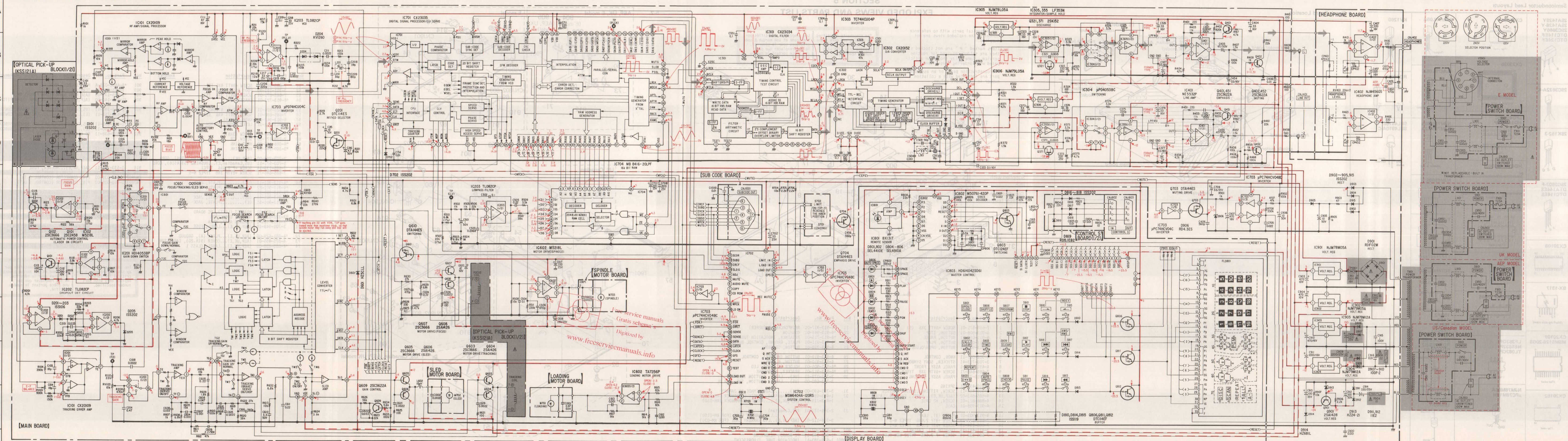
E MODEL



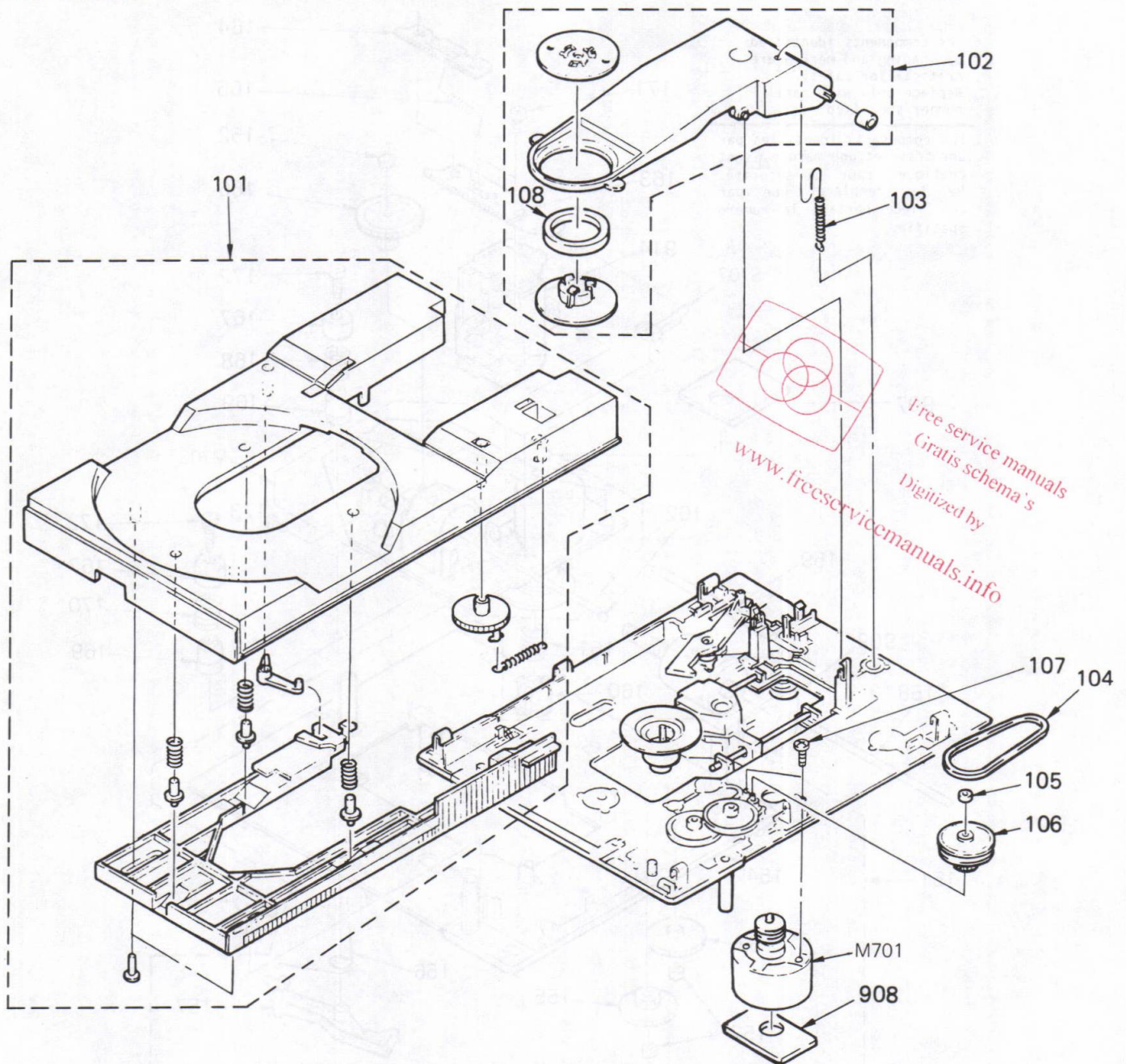
FORMER TYPE



4-2. SCHEMATIC DIAGRAM • See page 26 for notes.



5-3. CDM5-3C



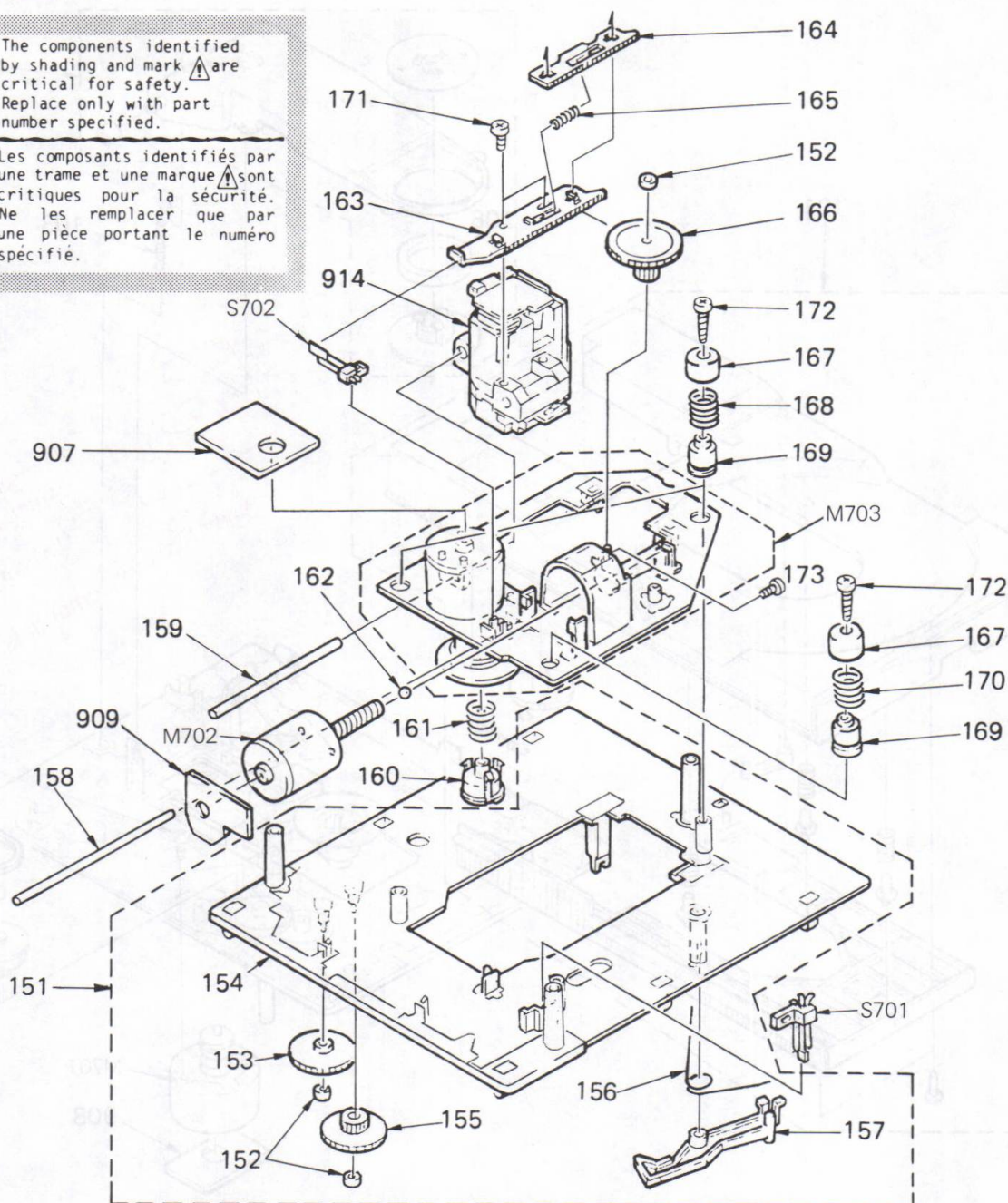
No.	Part No.	Description	Remarks
101	X-4910-410-4	TABEL ASSY, DISC	
102	A-4604-149-A	ARM ASSY, CHUCKING	
103	4-913-729-01	SPRING, TENSION	
104	3-653-387-00	BELT, LM	
105	4-910-418-01	BUSHING (DIA. 4)	

No.	Part No.	Description	Remarks
106	4-913-731-01	PULLEY, ROADING	
107	7-621-775-10	SCREW +B 2.6X4	
108	1-452-340-11	MAGNET	
908	*1-618-387-11	PC BOARD, LOADING	
M701	A-4608-320-A	MOTOR ASSY, LOADING	

5-4. CDM5-3C

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
151	*X-4910-405-1	CHASSIS ASSY, LOADING	152-157	166	4-910-432-02	GEAR, SLED	
152	4-910-418-01	BUSHING (DIA. 4)		167	4-910-414-01	RETAINER, SPRING	
153	4-910-403-01	GEAR (3), LOADING		168	4-910-423-01	SPRING (FLOATING A), COMPRESSION	
154	*4-912-902-03	CHASSIS (OUTSERT), LOADING		169	4-910-498-01	RUBBER, FLOATING	
155	4-910-402-01	GEAR (2), LOADING		170	4-910-463-01	SPRING (FLOATING B), COMPRESSION	
156	4-910-412-01	SPRING		171	7-621-775-20	SCREW +P 2.6X5	
157	*4-910-434-01	LEVER, LOCK		172	7-685-133-19	SCREW +BTP 2.6X6 TYPE2 N-S	
158	*4-910-431-01	SHAFT, SLIDE		173	7-621-775-15	SCREW +B 2.6X4	
159	*4-910-431-11	SHAFT, SLIDE		907	*1-618-386-11	PC BOARD, SPINDLE	
160	4-911-694-01	CAP, CENTERING		909	*1-618-388-11	PC BOARD, SLED	
161	4-910-427-01	SPRING, COMPRESSION		914	 X-4910-424-1	DEVICE, OPTICS (KSS-121A)	
162	7-671-112-11	BALL, STEEL, 2.5		M702	A-4608-308-A	MOTOR ASSY, SLED	
163	4-910-425-01	RACK (A)		M703	X-4910-411-4	MOTOR ASSY, SPINDLE	
164	4-910-442-01	RACK (B)		S701	1-570-203-11	SWITCH, LEAF (LOADING)	
165	4-910-462-01	SPRING, COMPRESSION (RACK)		S702	1-570-202-11	SWITCH, LEAF (LIMIT)	

SECTION 6

ELECTRICAL PARTS LIST

NOTE:

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:

MF:μF, PF:μF.

RESISTORS

- All resistors are in ohms.
- F : nonflammable

COILS

MMH : mH, UH : μH

SEMICONDUCTORS

In each case, U : μ, for example:

UA...: μA..., UPA...: μPA..., UPC...: μPC,
UPD...: μPD...

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

ELECTRICAL PARTS

Ref.No.	Part No.	Description
901	*A-4651-073-A	MOUNTED PCB, MAIN
902	*A-4657-027-A	MOUNTED PCB, INDICATOR
903	1-535-416-00	TERMINAL
904	*1-535-139-00	BASE POST 19MM (10MM PITCH) 2P
905	*1-535-140-00	(AEP,UK)...BASE POST 19MM(10MM PITCH)3P
906	*1-618-348-11	PC BOARD, HEADPHONE
907	*1-618-386-11	PC BOARD, SPINDLE MOTOR
908	*1-618-387-11	PC BOARD, LOADING MOTOR
909	*1-618-388-11	PC BOARD, SLED MOTOR
910	*1-618-390-11	(US,Canadian,AEP,UK) ...PC BOARD, CONTROL (S)
	*1-618-751-11	(E).....PC BOARD, CONTROL (S)
911	*1-618-393-11	(US,Canadian,AEP,UK)..PC BOARD, SUBCODE
	*1-618-750-11	(E).....PC BOARD, SUBCODE
912	*1-618-638-11	PC BOARD, POWER SWITCH
914 	.1-534-817-XX	(AEP)...CORD, POWER, EULO PLUG
	.1-551-188-XX	(E).....CORD, POWER
	.1-551-884-00	(UK).....CORD, POWER
	.1-557-579-11	(US,Canadian)...CORD, POWER
915	1-533-183-11	(AEP,UK,E)...HOLDER, FUSE
916 	.1-526-565-00	(E)...AC PLUG ADAPTOR
C101	1-123-343-00	ELECT 33MF 20% 25V
C102	1-162-304-31	CERAMIC 0.0047MF 10% 16V
C103	1-162-205-31	CERAMIC 18PF 5% 50V
C104	1-162-205-31	CERAMIC 18PF 5% 50V
C105	1-162-282-31	CERAMIC 100PF 10% 50V
C106	1-162-282-31	CERAMIC 100PF 10% 50V
C107	1-130-489-00	MYLAR 0.033MF 5% 50V
C108	1-162-302-31	CERAMIC 0.0022MF 20% 16V
C109	1-162-306-31	CERAMIC 0.01MF 20% 16V
C110	1-123-379-00	ELECT 0.47MF 20% 50V
C111	1-123-332-00	ELECT 47MF 20% 16V
C112	1-124-443-00	ELECT 100MF 20% 10V
C113	1-124-443-00	ELECT 100MF 20% 10V
C114	1-123-332-00	ELECT 47MF 20% 16V
C115	1-162-306-31	CERAMIC 0.01MF 20% 16V
C201	1-130-489-00	MYLAR 0.033MF 5% 50V
C202	1-130-483-00	MYLAR 0.01MF 5% 50V
C203	1-136-165-00	FILM 0.1MF 5% 50V
C204	1-136-173-00	FILM 0.47MF 5% 50V
C205	1-136-173-00	FILM 0.47MF 5% 50V
C206	1-162-286-31	CERAMIC 220PF 10% 50V
C208	1-102-647-00	CERAMIC 39PF 5% 50V
C209	1-102-658-00	CERAMIC 180PF 5% 50V
C210	1-102-964-00	CERAMIC 36PF 5% 50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description
C211	1-162-302-31	CERAMIC 0.0022MF 20% 16V
C212	1-162-302-31	CERAMIC 0.0022MF 20% 16V
C213	1-162-282-31	CERAMIC 100PF 10% 50V
C214	1-130-483-00	MYLAR 0.01MF 5% 50V
C215	1-123-356-00	ELECT 10MF 20% 50V
C216	1-123-369-00	ELECT 4.7MF 20% 50V
C217	1-123-343-00	ELECT 33MF 20% 25V
C218	1-123-343-00	ELECT 33MF 20% 25V
C219	1-161-974-00	CERAMIC 0.1MF 20% 16V
C301	1-162-294-31	CERAMIC 0.001MF 10% 50V
C304	1-161-974-00	CERAMIC 0.1MF 20% 16V
C305	1-161-974-00	CERAMIC 0.1MF 20% 16V
C306	1-161-974-00	CERAMIC 0.1MF 20% 16V
C307	1-123-307-00	ELECT 100MF 20% 10V
C309	1-102-523-00	CERAMIC 56PF 5% 50V
C310	1-162-294-31	CERAMIC 0.001MF 10% 50V
C311	1-102-513-00	CERAMIC 18PF 5% 50V
C312	1-123-306-00	ELECT 47MF 20% 10V
C314	1-123-332-00	ELECT 47MF 20% 25V
C315	1-123-306-00	ELECT 47MF 20% 10V
C321	1-104-230-00	POLYSTYRENE 0.0015MF 5% 50V
C322	1-123-334-00	ELECT 220MF 20% 25V
C323	1-123-318-00	ELECT 33MF 20% 16V
C324	1-123-318-00	ELECT 33MF 20% 16V
C325	1-104-233-00	POLYSTYRENE 220PF 5% 125V
C326	1-123-318-00	(FORMER)...ELECT 33MF 20% 16V
C327	1-123-318-00	(FORMER)...ELECT 33MF 20% 16V
C328	1-123-306-00	ELECT 47MF 20% 10V
C331	1-161-974-00	CERAMIC 0.1MF 20% 16V
C332	1-161-974-00	CERAMIC 0.1MF 20% 16V
C333	1-161-974-00	CERAMIC 0.1MF 20% 16V
C371	1-104-230-00	POLYSTYRENE 0.0015MF 5% 50V
C372	1-123-334-00	ELECT 220MF 20% 25V
C373	1-123-318-00	ELECT 33MF 20% 16V
C374	1-123-318-00	ELECT 33MF 20% 16V
C375	1-104-233-00	POLYSTYRENE 220PF 5% 125V
C376	1-123-318-00	(FORMER)...ELECT 33MF 20% 16V
C377	1-123-318-00	(FORMER)...ELECT 33MF 20% 16V
C401	1-130-289-00	FILM 0.0047MF 5% 100V
C404	1-123-318-00	ELECT 33MF 20% 16V
C405	1-123-359-00	ELECT 47MF 20% 50V
C406	1-162-291-31	CERAMIC 560PF 10% 50V
C407	1-123-321-00	ELECT 220MF 20% 16V
C408	1-162-306-31	CERAMIC 0.01MF 20% 16V
C409	1-162-306-31	CERAMIC 0.01MF 20% 16V
C410	1-162-290-31	(AEP)...CERAMIC 470PF 10% 50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C451	1-130-289-00	FILM	0.0047MF	5%	100V
C454	1-123-318-00	ELECT	33MF	20%	16V
C455	1-123-359-00	ELECT	47MF	20%	50V
C456	1-162-291-31	CERAMIC	560PF	10%	50V
C457	1-123-321-00	ELECT	220MF	20%	16V
C460	1-162-290-31	(AEP)...CERAMIC	470PF	10%	50V
C501	1-123-380-00	ELECT	1MF	20%	50V
C502	1-136-165-00	FILM	0.1MF	5%	50V
C503	1-130-481-00	MYLAR	0.0068MF	5%	50V
C504	1-136-165-00	FILM	0.1MF	5%	50V
C505	1-136-169-00	FILM	0.22MF	5%	50V
C506	1-162-290-31	CERAMIC	470PF	10%	50V
C601	1-124-443-00	ELECT	100MF	20%	10V
C603	1-123-332-00	ELECT	47MF	20%	16V
C604	1-162-294-31	CERAMIC	0.001MF	10%	50V
C605	1-136-169-00	FILM	0.22MF	5%	50V
C606	1-130-489-00	MYLAR	0.033MF	5%	50V
C607	1-162-294-31	CERAMIC	0.001MF	10%	50V
C608	1-136-161-00	FILM	0.047MF	5%	50V
C609	1-124-183-00	ELECT	2.2MF	20%	50V
C610	1-124-184-00	ELECT	3.3MF	20%	50V
C611	1-136-169-00	FILM	0.22MF	5%	50V
C612	1-162-294-31	CERAMIC	0.001MF	10%	50V
C613	1-162-294-31	CERAMIC	0.001MF	10%	50V
C614	1-130-487-00	MYLAR	0.022MF	5%	50V
C615	1-130-475-00	MYLAR	0.0022MF	5%	50V
C616	1-162-291-31	CERAMIC	560PF	10%	50V
C617	1-123-334-00	ELECT	220MF	20%	25V
C618	1-123-334-00	ELECT	220MF	20%	25V
C619	1-162-302-31	CERAMIC	0.0022MF	20%	16V
C620	1-123-359-00	ELECT	47MF	20%	50V
C621	1-162-302-31	CERAMIC	0.0022MF	20%	16V
C622	1-130-489-00	MYLAR	0.033MF	5%	50V
C623	1-136-165-00	FILM	0.1MF	5%	50V
C624	1-136-169-00	FILM	0.22MF	5%	50V
C625	1-162-290-31	CERAMIC	470PF	10%	50V
C626	1-162-302-31	CERAMIC	0.0022MF	20%	16V
C702	1-123-343-00	ELECT	33MF	20%	25V
C703	1-162-210-31	CERAMIC	30PF	5%	50V
C704	1-162-210-31	CERAMIC	30PF	5%	50V
C705	1-162-596-00	CERAMIC	0.022MF		25V
C708	1-123-334-00	ELECT	220MF	20%	25V
C709	1-123-343-00	ELECT	33MF	20%	25V
C711	1-123-334-00	ELECT	220MF	20%	25V
C713	1-123-334-00	ELECT	220MF	20%	25V
C714	1-162-306-31	CERAMIC	0.01MF	20%	16V
C804	1-162-306-31	CERAMIC	0.01MF	30%	16V
C805	1-162-306-31	CERAMIC	0.01MF	30%	16V
C808	1-162-596-00	CERAMIC	0.022MF		25V
C809	1-162-596-00	CERAMIC	0.022MF		25V
C810	1-162-211-31	CERAMIC	33PF	5%	50V
C811	1-162-211-31	CERAMIC	33PF	5%	50V
C813	1-162-294-31	CERAMIC	0.001MF	10%	50V
C900	1-162-294-31	CERAMIC	0.001MF	10%	50V
C901	1-123-326-00	ELECT	3300MF	20%	16V
C902	1-123-326-00	ELECT	3300MF	20%	16V
C903	1-123-323-00	ELECT	470MF	20%	16V
C904	1-123-323-00	ELECT	470MF	20%	16V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C905	1-123-356-00	ELECT	10MF	20%	50V
C906	1-123-356-00	ELECT	10MF	20%	50V
C907	1-124-475-11	ELECT	470MF	20%	16V
C908	1-123-338-00	ELECT	2200MF	20%	25V
C909	1-123-388-00	ELECT	2200MF	20%	25V
C910	1-123-323-00	ELECT	470MF	20%	16V
C911	1-123-324-00	ELECT	1000MF	20%	16V
C912	1-124-122-11	ELECT	100MF	20%	50V
C913	1-124-121-00	ELECT	100MF	20%	35V
C914	1-124-479-11	ELECT	330MF	20%	25V
C915	1-130-789-00	FILM	1MF	10%	100V
C916	1-130-483-00	MYLAR	0.01MF	5%	50V
C950	1-161-744-00	CERAMIC	0.01MF		400V
C951	1-161-742-00	(US)...CERAMIC	0.0022MF	20%	400V
C952	1-161-742-00	(AEP,UK,E)...CERAMIC	0.0022MF	20%	400V
C953	1-161-742-00	(AEP,UK,E)...CERAMIC	0.0022MF	20%	400V
C954	1-161-742-00	(AEP,UK,E)...CERAMIC	0.0022MF	20%	400V
C955	1-161-742-00	(AEP,UK,E)...CERAMIC	0.0022MF	20%	400V
C1000	1-162-306-31	CERAMIC	0.01MF	20%	16V
C1001	1-124-270-11	ELECT	0.47MF	20%	50V
C1002	1-102-121-00	CERAMIC	0.0022MF	10%	50V
C1003	1-102-121-00	CERAMIC	0.0022MF	10%	50V
CNJ401	1-562-830-11	JACK, PIN 2P (LINE OUT)			
CNJ402	1-507-863-21	JACK, LARGE TYPE (HEADPHONES)			
CNJ802*1	1-560-039-00	PIN, CONNECTOR (CONTROL S IN)			
CNJ803*1	1-560-039-00	PIN, CONNECTOR (CONTROL S OUT)			
CNJ901.1	1-526-751-00	(UK).....OUTLET, AC			
CNJ901.1	1-526-774-11	(E).....OUTLET, AC			
CNJ901.1	1-526-794-11	(AEP).....OUTLET, AC			
CNJ901.1	1-526-882-00	(US,Canadian).....OUTLET, AC			
CNJ10011	1-562-677-11	SOCKET, CONNECTOR (SUBCODE OUT)			
CNP1	*1-564-521-31	PLUG, CONNECTOR 6P			
CNP2	1-564-519-41	PLUG, CONNECTOR 4P			
CNP3	*1-564-520-11	PLUG, CONNECTOR 5P			
CNP4	1-564-523-41	PLUG, CONNECTOR 8P			
CNP6	*1-564-519-21	PLUG, CONNECTOR 4P			
CNP7	*1-564-339-00	PIN, CONNECTOR 5P			
CNP9	*1-506-503-11	PIN, CONNECTOR 9P			
CNP10	*1-508-815-00	14MM BASE POST			
CNP12	*1-564-509-11	PLUG, CONNECTOR 6P			
CNP13	*1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P			
CNP14	*1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P			
CNP100*1	1-564-724-11	PIN, CONNECTOR (SMALL TYPE) 8P			
CNP401*1	1-564-509-11	PLUG, CONNECTOR 6P			
CNP801*1	1-564-719-21	PIN, CONNECTOR (SMALL TYPE) 3P			
CP401	1-232-694-11	COMPOSITION CIRCUIT BLOCK			
CP402	1-232-994-11	COMPOSITION CIRCUIT BLOCK			
CP452	1-232-994-11	COMPOSITION CIRCUIT BLOCK			
CP802	1-232-992-11	COMPOSITION CIRCUIT BLOCK			
CP803	1-233-027-11	COMPOSITION CIRCUIT BLOCK			
CP804	1-232-967-11	COMPOSITION CIRCUIT BLOCK			
CP806	1-232-991-11	COMPOSITION CIRCUIT BLOCK			
D101	8-719-107-94	DIODE 1SS202-1			
D201	8-719-911-06	DIODE 1SS106			
D202	8-719-911-06	DIODE 1SS106			
D203	8-719-911-06	DIODE 1SS106			
D204	8-719-936-68	DIODE KV1260			
D205	8-719-107-94	DIODE 1SS202-1			

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ELECTRICAL PARTS

Ref.No.	Part No.	Description
D601	8-719-951-13	DIODE HZ5CLL
D702	8-719-107-94	DIODE 1SS202-1
D801	8-719-301-29	DIODE SEL4410E
D802	8-719-301-29	DIODE SEL4410E
D804	8-719-302-13	DIODE SEL4910A-C
D805	8-719-302-13	DIODE SEL4910A-C
D806	8-719-301-29	DIODE SEL4410E
D810	8-719-107-94	DIODE 1SS202-1
D814	8-719-107-94	DIODE 1SS202-1
D815	8-719-107-94	DIODE 1SS202-1
D816	8-719-107-94	DIODE 1SS202-1
D817	8-719-107-94	DIODE 1SS202-1
D818	8-719-107-94	DIODE 1SS202-1
D819	8-719-109-85	DIODE RD5.1ES-B2
D901	8-719-937-49	DIODE RDO2M
D902	8-719-107-94	DIODE 1SS202-1
D903	8-719-107-94	DIODE 1SS202-1
D904	8-719-107-94	DIODE 1SS202-1
D905	8-719-107-94	DIODE 1SS202-1
D906	8-719-109-75	DIODE RD4.3ES-B2
D907	8-719-210-12	DIODE 10DF2
D908	8-719-210-12	DIODE 10DF2
D909	8-719-210-12	DIODE 10DF2
D910	8-719-210-12	DIODE 10DF2
D911	8-719-200-23	DIODE 11E2
D912	8-719-200-23	DIODE 11E2
D913	8-719-110-61	DIODE RD24ES-B1
D914	8-719-910-64	DIODE HZ6B1L
D915	8-719-107-94	DIODE 1SS202-1
F901	1-532-286-00	(AEP,UK,E)...FUSE, TIME-LAG (2.5A)
FLD801	1-519-383-11	INDICATOR TUBE, FLUORESCENT
IC101	8-752-010-90	IC CX20109
IC102	8-759-600-02	IC M5218L
IC201	8-759-140-53	IC UPD4053BC
IC202	8-759-990-82	IC TL082CP
IC203	8-759-990-82	IC TL082CP
IC301	8-759-912-53	IC CX23034
IC302	8-752-015-20	IC CX20152
IC303	8-759-202-13	IC TC74HCU04P
IC304	8-759-140-53	IC UPD4053BC
IC305	8-759-910-75	IC LF353DP
IC355	8-759-910-75	IC LF353DP
IC401	8-759-900-72	IC NE5532P
IC402	8-759-700-40	IC NJM4560S
IC601	8-752-010-80	IC CX20108
IC602	8-759-202-01	IC TA7256P
IC701	8-759-912-52	IC CX23035
IC702	8-759-924-82	IC MSM6404A-12ORS
IC703	8-759-202-13	IC TC74HCU04P
IC704	8-759-910-36	IC MSM5128-20GS
IC801	8-741-131-70	IC BX-1317
IC802	8-759-602-87	IC M50761-420P
IC803	8-759-303-40	IC HD614042SD62
IC901	8-759-700-11	IC NJM78M05A
IC902	8-759-700-20	IC NJM79M05A
IC903	8-759-170-12	IC UPC78M12H

ELECTRICAL PARTS

Ref.No.	Part No.	Description
IC904	8-759-700-24	IC NJM79M12A
IC905	8-759-708-05	IC NJM78L05A
IC906	8-759-700-65	IC NJM79L05A
L201	1-426-212-11	COIL (RF)
L301	1-406-123-11	COIL (OSC)
L602	1-408-117-00	MICRO INDUCTOR 10UH
L802	1-410-328-11	MICRO INDUCTOR 10UH
L901	1-421-340-00	(AEP,UK,E)...LINE FILTER
L901	1-421-580-00	(US)...TRANSFORMER, LINE FILTER (LFT)
LPF401	1-464-630-11	FILTER UNIT, LOW PASS
LPF451	1-464-630-11	FILTER UNIT, LOW PASS
M701	A-4608-320-A	MOTOR ASSY, LOADING
M702	A-4608-308-A	MOTOR ASSY, SLED
M703	X-4910-411-4	MOTOR ASSY, SPINDLE
PS901	1-532-679-00	LINK, IC
PS902	1-532-679-00	LINK, IC
Q101	8-729-606-33	TRANSISTOR 2SC2603F
Q102	8-729-206-49	TRANSISTOR 2SC3666Y
Q201	8-729-900-80	TRANSISTOR DTC114ES
Q321	8-729-800-43	TRANSISTOR 2SK152-3
Q371	8-729-800-43	TRANSISTOR 2SK152-3
Q401	8-729-100-99	TRANSISTOR 2SC3622A
Q402	8-729-100-99	TRANSISTOR 2SC3622A
Q451	8-729-100-99	TRANSISTOR 2SC3622A
Q452	8-729-100-99	TRANSISTOR 2SC3622A
Q603	8-729-206-49	TRANSISTOR 2SC3666Y
Q604	8-729-206-43	TRANSISTOR 2SA1426Y
Q605	8-729-206-49	TRANSISTOR 2SC3666Y
Q606	8-729-206-43	TRANSISTOR 2SA1426Y
Q607	8-729-206-49	TRANSISTOR 2SC3666Y
Q608	8-729-206-43	TRANSISTOR 2SA1426Y
Q609	8-729-100-99	TRANSISTOR 2SC3622A
Q610	8-729-900-65	TRANSISTOR DTA144ES
Q703	8-729-900-65	TRANSISTOR DTA144ES
Q704	8-729-900-65	TRANSISTOR DTA144ES
Q803	8-729-900-37	TRANSISTOR DTC124EF
Q806	8-729-900-45	TRANSISTOR DTC114EF
Q811	8-729-900-45	TRANSISTOR DTC114EF
Q812	8-729-900-45	TRANSISTOR DTC114EF
Q901	8-729-205-95	TRANSISTOR 2SA1428Y
R101	1-249-417-11	CARBON 1K 5% 1/6W
R102	1-249-429-11	CARBON 10K 5% 1/6W
R103	1-249-432-11	CARBON 18K 5% 1/6W
R104	1-247-893-00	CARBON 390K 5% 1/6W
R105	1-247-883-00	CARBON 150K 5% 1/6W
R106	1-247-897-00	CARBON 560K 5% 1/6W
R107	1-247-883-00	CARBON 150K 5% 1/6W
R108	1-247-881-00	CARBON 120K 5% 1/6W
R109	1-249-429-11	CARBON 10K 5% 1/6W
R110	1-249-433-11	CARBON 22K 5% 1/6W
R111	1-249-435-11	CARBON 33K 5% 1/6W
R112	1-249-429-11	CARBON 10K 5% 1/6W
R113	1-249-441-11	CARBON 100K 5% 1/6W
R114	1-249-429-11	CARBON 10K 5% 1/6W
R115	1-215-413-00	METAL 470 1% 1/6W
R116	1-215-429-00	METAL 2.2K 1% 1/6W
R117	1-249-429-11	CARBON 10K 5% 1/6W
R118	1-247-845-00	CARBON 3.9K 5% 1/6W

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ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R119	1-249-417-11	CARBON	1K	5%	1/6W
R120	1-215-449-00	METAL	15K	1%	1/6W
R121	1-215-445-00	METAL	10K	1%	1/6W
R122	1-247-873-00	CARBON	56K	5%	1/6W
R123	1-249-417-11	CARBON	1K	5%	1/6W
R124	1-214-092-00	METAL	22	1%	1/4W
R126	1-249-433-11	CARBON	22K	5%	1/6W
R201	1-249-425-11	CARBON	4.7K	5%	1/6W
R202	1-249-433-11	CARBON	22K	5%	1/6W
R203	1-247-903-00	CARBON	1M	5%	1/6W
R204	1-249-435-11	CARBON	33K	5%	1/6W
R205	1-247-895-00	CARBON	470K	5%	1/6W
R206	1-249-425-11	CARBON	4.7K	5%	1/6W
R207	1-247-895-00	CARBON	470K	5%	1/6W
R208	1-247-895-00	CARBON	470K	5%	1/6W
R209	1-215-453-00	METAL	22K	1%	1/6W
R211	1-215-453-00	METAL	22K	1%	1/6W
R212	1-249-425-11	CARBON	4.7K	5%	1/6W
R213	1-249-441-11	CARBON	100K	5%	1/6W
R214	1-249-441-11	CARBON	100K	5%	1/6W
R215	1-249-441-11	CARBON	100K	5%	1/6W
R216	1-249-435-11	CARBON	33K	5%	1/6W
R217	1-247-852-00	CARBON	7.5K	5%	1/6W
R218	1-247-857-00	CARBON	12K	5%	1/6W
R219	1-249-422-11	CARBON	2.7K	5%	1/6W
R220	1-249-433-11	CARBON	22K	5%	1/6W
R221	1-249-429-11	CARBON	10K	5%	1/6W
R222	1-249-417-11	CARBON	1K	5%	1/6W
R301	1-249-437-11	CARBON	47K	5%	1/6W
R302	1-247-843-00	CARBON	3.3K	5%	1/6W
R303	1-249-589-11	CARBON	36K		1/4W
R304	1-249-405-11	CARBON	100	5%	1/6W
R321	1-249-425-11	CARBON	4.7K	5%	1/6W
R322	1-249-419-11	CARBON	1.5K	5%	1/6W
R323	1-247-719-11	CARBON	3.3K		1/4W
R324	1-247-161-00	CARBON	18K		1/4W
R325	1-247-721-11	CARBON	4.7K		1/4W
R326	1-247-719-11	CARBON	3.3K		1/4W
R371	1-249-425-11	CARBON	4.7K	5%	1/6W
R372	1-249-419-11	CARBON	1.5K	5%	1/6W
R373	1-247-719-11	CARBON	3.3K		1/4W
R374	1-247-161-00	CARBON	18K		1/4W
R375	1-247-721-11	CARBON	4.7K		1/4W
R376	1-247-719-11	CARBON	3.3K		1/4W
R401	1-247-704-11	CARBON	220		1/4W
R402	1-246-543-00	CARBON	820K		1/4W
R403	1-249-577-11	CARBON	11K		1/4W
R404	1-247-721-11	CARBON	4.7K		1/4W
R406	1-249-469-11	CARBON	100K		1/4W
R407	1-249-556-11	CARBON	1.5K		1/4W
R408	1-247-125-00	CARBON	560		1/4W
R409	1-249-417-11	CARBON	1K	5%	1/6W
R410	1-247-700-11	CARBON	100		1/4W
R411	1-247-163-00	CARBON	22K		1/4W
R413	1-249-417-11	CARBON	1K	5%	1/6W
R416	1-247-815-00	CARBON	220	5%	1/6W
R417	1-249-425-11	CARBON	4.7K	5%	1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R418	1-249-441-11	CARBON	100K	5%	1/6W
R451	1-247-704-11	CARBON	220		1/4W
R452	1-246-543-00	CARBON	820K		1/4W
R453	1-249-577-11	CARBON	11K		1/4W
R454	1-247-721-11	CARBON	4.7K		1/4W
R456	1-249-469-11	CARBON	100K		1/4W
R457	1-249-556-11	CARBON	1.5K		1/4W
R458	1-247-125-00	CARBON	560		1/4W
R459	1-249-417-11	CARBON	1K	5%	1/6W
R460	1-247-700-11	CARBON	100		1/4W
R461	1-247-163-00	CARBON	22K		1/4W
R463	1-249-417-11	CARBON	1K	5%	1/6W
R466	1-247-815-00	CARBON	220	5%	1/6W
R467	1-249-425-11	CARBON	4.7K	5%	1/6W
R468	1-249-441-11	CARBON	100K	5%	1/6W
R501	1-215-441-00	METAL	6.8K	1%	1/6W
R502	1-247-856-00	CARBON	11K	5%	1/6W
R503	1-215-441-00	METAL	6.8K	1%	1/6W
R504	1-247-903-00	CARBON	1M	5%	1/6W
R505	1-247-856-00	CARBON	11K	5%	1/6W
R506	1-249-433-11	CARBON	22K	5%	1/6W
R507	1-215-453-00	METAL	22K	1%	1/6W
R508	1-215-449-00	METAL	15K	1%	1/6W
R509	1-247-843-00	CARBON	3.3K	5%	1/6W
R510	1-247-869-00	CARBON	39K	5%	1/6W
R511	1-247-887-00	CARBON	220K	5%	1/6W
R601	1-247-851-00	CARBON	6.8K	5%	1/6W
R602	1-247-864-00	CARBON	24K	5%	1/6W
R603	1-249-425-11	CARBON	4.7K	5%	1/6W
R604	1-249-425-11	CARBON	4.7K	5%	1/6W
R605	1-247-859-00	CARBON	15K	5%	1/6W
R606	1-249-429-11	CARBON	10K	5%	1/6W
R607	1-249-417-11	CARBON	1K	5%	1/6W
R608	1-247-851-00	CARBON	6.8K	5%	1/6W
R609	1-247-837-00	CARBON	1.8K	5%	1/6W
R610	1-249-441-11	CARBON	100K	5%	1/6W
R611	1-249-429-11	CARBON	10K	5%	1/6W
R612	1-249-437-11	CARBON	47K	5%	1/6W
R613	1-249-429-11	CARBON	10K	5%	1/6W
R614	1-247-878-00	CARBON	91K	5%	1/6W
R615	1-249-440-11	CARBON	82K	5%	1/6W
R616	1-249-440-11	CARBON	82K	5%	1/6W
R617	1-247-878-00	CARBON	91K	5%	1/6W
R618	1-247-903-00	CARBON	1M	5%	1/6W
R619	1-249-417-11	CARBON	1K	5%	1/6W
R620	1-247-869-00	CARBON	39K	5%	1/6W
R621	1-249-405-11	CARBON	100	5%	1/6W
R622	1-249-434-11	CARBON	27K	5%	1/6W
R623	1-249-433-11	CARBON	22K	5%	1/6W
R624	1-247-845-00	CARBON	3.9K	5%	1/6W
R625	1-249-405-11	CARBON	100	5%	1/6W
R626	1-247-873-00	CARBON	56K	5%	1/6W
R627	1-249-425-11	CARBON	4.7K	5%	1/6W
R628	1-247-819-00	CARBON	330	5%	1/6W
R629	1-247-851-00	CARBON	6.8K	5%	1/6W
R630	1-249-434-11	CARBON	27K	5%	1/6W
R631	1-249-405-11	CARBON	100	5%	1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R632	1-247-851-00	CARBON	6.8K	5%	1/6W
R633	1-249-441-11	CARBON	100K	5%	1/6W
R634	1-247-849-00	CARBON	5.6K	5%	1/6W
R640	1-247-889-00	CARBON	270K	5%	1/6W
R641	1-249-433-11	CARBON	22K	5%	1/6W
R703	1-247-903-00	CARBON	1M	5%	1/6W
R704	1-249-429-11	CARBON	10K	5%	1/6W
R705	1-249-421-11	CARBON	2.2K	5%	1/6W
R706	1-249-421-11	CARBON	2.2K	5%	1/6W
R707	1-249-437-11	CARBON	47K	5%	1/6W
R708	1-247-891-00	CARBON	330K	5%	1/6W
R803	1-249-405-11	CARBON	100	5%	1/6W
R804	1-249-433-11	CARBON	22K	5%	1/6W
R805	1-249-433-11	CARBON	22K	5%	1/6W
R806	1-247-783-00	CARBON	10	5%	1/6W
R808	1-249-433-11	CARBON	22K	5%	1/6W
R809	1-247-903-00	CARBON	1M	5%	1/6W
R811	1-247-819-00	CARBON	330	5%	1/6W
R812	1-247-819-00	CARBON	330	5%	1/6W
R813	1-247-819-00	CARBON	330	5%	1/6W
R814	1-247-819-00	CARBON	330	5%	1/6W
R815	1-247-819-00	CARBON	330	5%	1/6W
R816	1-247-819-00	CARBON	330	5%	1/6W
R817	1-247-819-00	CARBON	330	5%	1/6W
R818	1-247-819-00	CARBON	330	5%	1/6W
R822	1-249-433-11	CARBON	22K	5%	1/6W
R823	1-249-433-11	CARBON	22K	5%	1/6W
R824	1-249-433-11	CARBON	22K	5%	1/6W
R825	1-249-441-11	CARBON	100K	5%	1/6W
R826	1-249-441-11	CARBON	100K	5%	1/6W
R901	1-249-417-11	CARBON	1K	5%	1/6W
R902	1-249-441-11	CARBON	100K	5%	1/6W
R903	1-247-799-00	CARBON	47	5%	1/6W
R904	1-217-387-00	FUSIBLE	10	5%	1/4W F
R905	1-249-417-11	CARBON	1K	5%	1/6W
R906	1-249-421-11	CARBON	2.2K	5%	1/6W
R907	1-249-429-11	CARBON	10K	5%	1/6W
R908	1-217-391-00	FUSIBLE	22	5%	1/4W F
RV101	1-228-999-00	RES, ADJ, CARBON 500K (E-F BALANCE)			
RV102	1-230-600-11	RES, ADJ, CARBON 20K (FOCUS GAIN)			
RV103	1-230-503-11	RES, ADJ, CARBON 10K (TRACKING GAIN)			
RV104	1-230-600-11	RES, ADJ, CARBON 20K (FOCUS GAIN)			
RV201	1-228-991-00	RES, ADJ, CARBON 2K			
RV401	1-230-997-21	RES, VAR, CARBON 20K/20K (HEADPHONES LEVEL)			
S701	1-570-203-11	SWITCH, LEAF (LOADING)			
S702	1-570-202-11	SWITCH, LEAF (LIMIT)			
S801	1-554-303-21	SWITCH, KEY BOARD (OPEN/CLOSE)			
S802	1-554-303-21	SWITCH, KEY BOARD (CLEAR REPEAT)			
S803	1-554-303-21	SWITCH, KEY BOARD (A<->B REPEAT)			
S804	1-554-303-21	SWITCH, KEY BOARD (AUTO SPACE)			
S805	1-554-303-21	SWITCH, KEY BOARD (TIME)			
S806	1-554-303-21	SWITCH, KEY BOARD (SHUFFLE)			
S807	1-554-303-21	SWITCH, KEY BOARD (PROGRAM RMS)			

ELECTRICAL PARTS

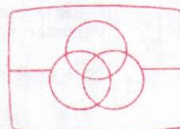
Ref.No.	Part No.	Description
S808	1-554-303-21	SWITCH, KEY BOARD (CHECK RMS)
S809	1-554-303-21	SWITCH, KEY BOARD (CLEAR RMS)
S810	1-554-303-21	SWITCH, KEY BOARD (STOP)
S811	1-554-303-21	SWITCH, KEY BOARD (PAUSE)
S812	1-554-303-21	SWITCH, KEY BOARD (PLAY)
S813	1-554-303-21	SWITCH, KEY BOARD (◀▶)
S814	1-554-303-21	SWITCH, KEY BOARD (▶▶)
S815	1-554-303-21	SWITCH, KEY BOARD (← INDEX)
S816	1-554-303-21	SWITCH, KEY BOARD (→ INDEX)
S817	1-554-303-21	SWITCH, KEY BOARD (◀◀ AMS/RMS)
S818	1-554-303-21	SWITCH, KEY BOARD (▶▶ AMS/RMS)
S901	1-553-318-00	SWITCH, PUSH (1 KEY)(POWER)
T901	1-448-448-11	(US,Canadian)...TRANSFORMER, POWER
T901	1-448-449-11	(AEP,UK).....TRANSFORMER, POWER
T901	1-448-450-11	(E).....TRANSFORMER, POWER
VS901	1-526-576-51	(E)...SELECTOR, POWER VOLTAGE
X301	1-567-664-11	VIBRATOR, CRYSTAL (67.7376MHz)
X702	1-567-192-11	OSCILLATOR, CERAMIC (4MHz)
X801	1-527-532-00	OSCILLATOR, CERAMIC (400kHz)
X802	1-567-192-11	OSCILLATOR, CERAMIC (4MHz)

ACCESSORY & PACKING MATERIAL

Part No.	Description
1-463-697-11	(US,Canadian)...REMOTE COMMANDER (RM-D150)
1-463-719-11	(AEP,UK,E).....REMOTE COMMANDER (RM-D30)
1-526-565-00	(E)...AC PLUG ADAPTOR
1-558-233-11	CORD (WITH CONNECTOR)(SIRCS)4P
1-558-543-11	CORD, CONNECTION
3-536-825-00	(E)...BAG, POLYETHYLENE (FOR SET)
3-701-630-00	BAG, POLYETHYLENE (FOR PRINTS)
3-703-390-01	(US)....INSTRUCTION
*3-795-629-11	(AEP)...INSTRUCTION
3-765-107-11	(AEP,UK,E).....MANUAL, INSTRUCTION (English/French/Spanish)
3-765-107-21	(US,Canadian)...MANUAL, INSTRUCTION (English)
3-765-107-31	(Canadian)...MANUAL, INSTRUCTION (French)
3-765-107-41	(AEP).....MANUAL, INSTRUCTION (Deutsch/Nederlands/Svenska/Italiano)
4-907-610-01	JOINT
4-913-750-01	CUSHION
4-913-941-01	HOLDER, COMMANDER
4-913-939-51	(US).....INDIVIDUAL CARTON
4-913-939-61	(Canadian,AEP,UK,E)...INDIVIDUAL CARTON

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



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