

CDP-C5M

SERVICE MANUAL

Note: File this issue in place of the preliminary one.

*US Model
AEP Model
UK Model
E Model*



SPECIFICATIONS

System	Compact disc digital audio system
Laser output	Max. 0.4mW* • 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.
Frequency response	Europe: 2 Hz - 20 kHz (± 0.5 dB) Others: 2 Hz - 20 kHz (± 0.5 dB)
Signal to noise ratio	More than 95 dB
Dynamic range	More than 93 dB
Harmonic distortion	Less than 0.005% (1 kHz)
Channel separation	More than 90 dB (1 kHz)
Wow and flutter	Below measurable limit
Outputs	LINE OUT (phono jacks) Output level 2 V (at 50 kilohms) Load impedance over 10 kilohms HEADPHONES (stereo phone jack) Output level 0 - 28 mW (variable) (at 32 ohms) Output impedance 220 ohms

General

Power requirements	US model: 120 V AC, 60 Hz AEP model: 220 V AC (240 V AC, adjustable by authorized Sony personnel), 50/60 Hz UK model: 240 V AC 50 Hz E model: 120/220/240 V AC, switchable, 50/60 Hz
Power consumption	10 W
AC outlet (USA model only)	100 W max. unswitched
Dimensions	Approx. 355 × 106 × 415 mm (w/h/d) (14 × 4 $\frac{1}{4}$ × 16 $\frac{3}{8}$ inches)
Weight	Approx. 7 kg (15 lbs 7 oz), net

REMOTE COMMANDER RM-D5

Remote control system

Infrared control

Power requirements

3 V DC with two batteries R6 (size AA)

Dimensions

43 × 20 × 175 mm (w/h/d)
(1 $\frac{3}{4}$ × $\frac{7}{8}$ × 6 $\frac{7}{8}$ inches)

Weight

145 g (5 oz)
including batteries

Note

This appliance conforms with EEC Directives 76/889 and 82/499 regarding interference suppression.

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.

COMPACT DISC PLAYER
SONY®

AUD



FEATURES

Compact disc player with 5 disc trays

Plays up to 5 discs continuously with its disc compartment having 5 disc trays (MULTI play).

Direct access to the desired disc

Any disc in the compartment can be played with the DISC SELECT button any time you want (MULTI play).

Various functions

- PROGRAM play function for playing up to 32 selections on any disc in a desired order
- SHUFFLE play function for playing the selections in a random order
- Repeat function for SINGLE, MULTI, PROGRAM and SHUFFLE play

Memory back up

The programmed playback order is retained for approximately 3 days with the power turned off or with the disc compartment being opened. This allows you to confirm the programmed order referring to the disc labels with the compartment open.

CAUTIONS ABOUT DISCTABLE

- *Do not push the disc-table in or pull it out forcibly, since the disc-table does not work without the power switched on.
- *Be careful not to disturb the disc-table in ejecting motion.
- *If something like a wire or a finger is caught by the disc-table, depress the OPEN/CLOSE button as soon as possible, so that the disc-table will move reversely.

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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)

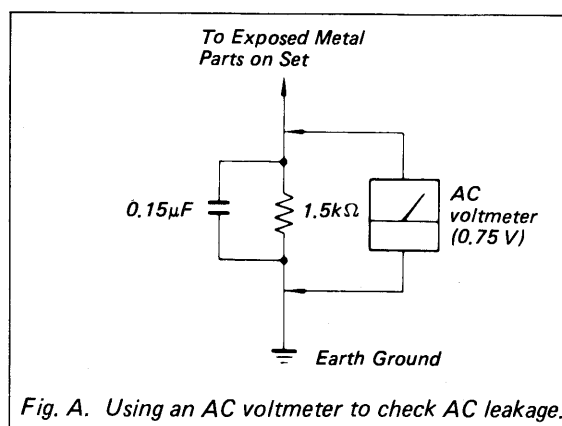
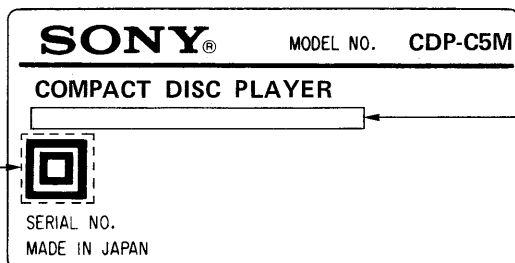


Fig. A. Using an AC voltmeter to check AC leakage.

MODEL IDENTIFICATION

— Specification Label —

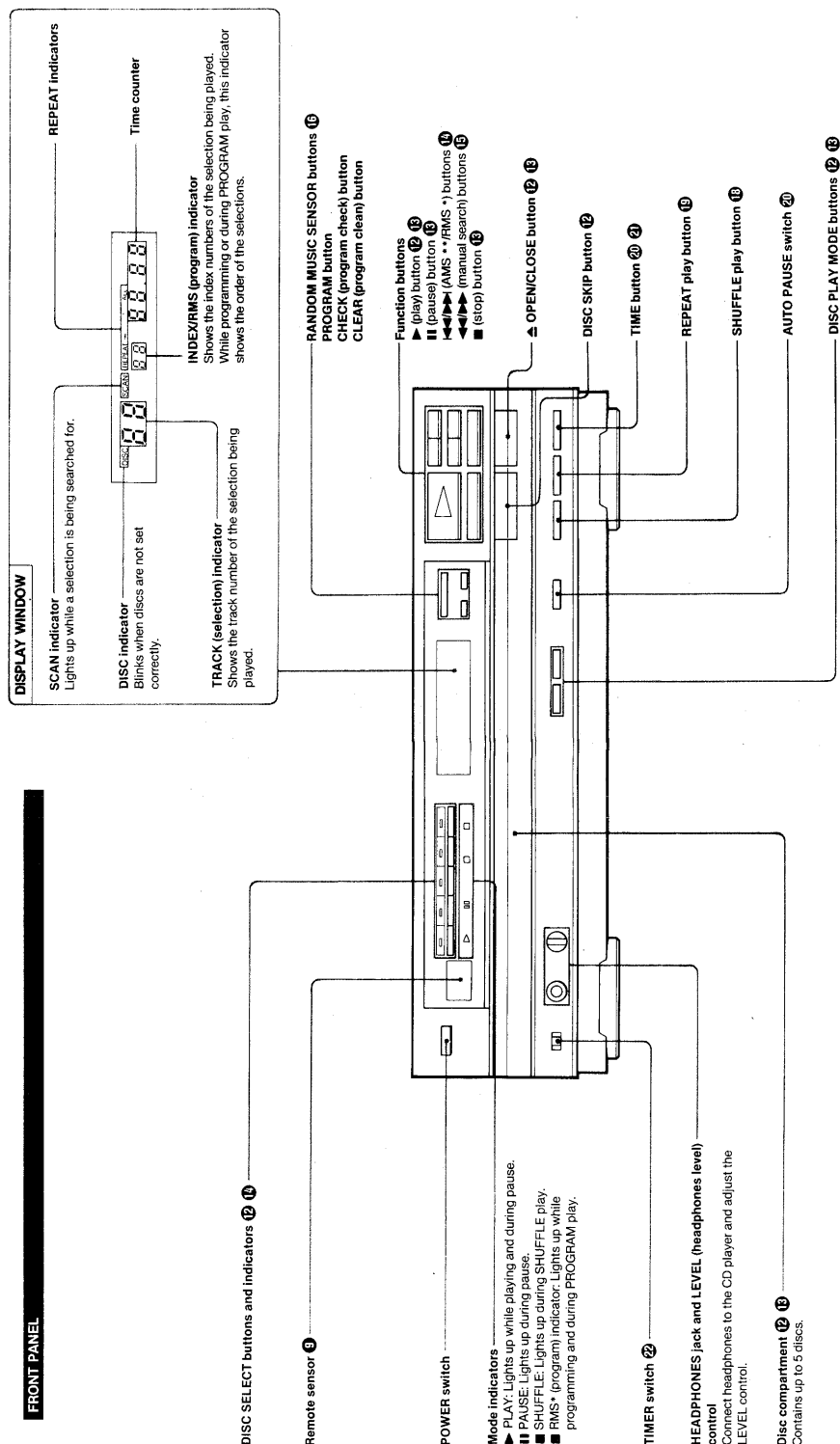
EXCEPT US model



US model: AC 120 V 60 Hz 10 W
AEP model: AC 220 V ~ 50/60 Hz 10 W
UK model: AC 240 V ~ 50/60 Hz 10 W
E model: AC 120/220/240 V ~ 50/60 Hz 10 W

SECTION 1 OUTLINE

1-1. LOCATION AND FUNCTION OF CONTROLS

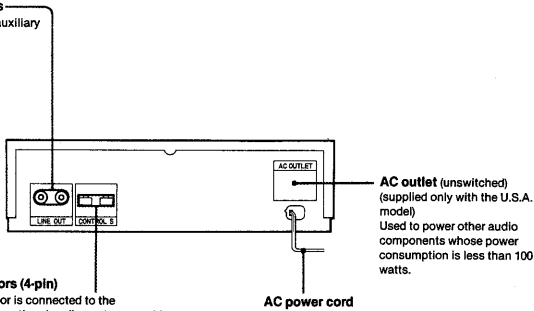


* RMS is an abbreviation of Random Music Sensor.
** AMS is an abbreviation of Automatic Music Sensor.

CONNECTIONS

DESCRIPTION ON REAR PANEL

LINE OUT (audio output) jacks
Connect these jacks to the CD or auxiliary input jacks of an amplifier.

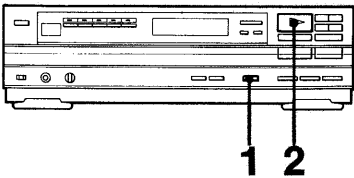


CONTROL S IN/OUT connectors (4-pin)
When the CONTROL S IN connector is connected to the CONTROL S OUT connector of the optional audio equipment with CONTROL S connectors, the remote sensor of the connected equipment can be used to receive the commands emitted from the remote commander of both the CDP-C5M and the connected equipment.
The CONTROL S OUT connector is to be connected to the CONTROL S IN connector of another optional audio equipment.

1-2. AUTO PAUSE

AUTO PAUSE

Using the auto pause function, the CD player enters the pause mode automatically each time a selection has been played. This function is useful for recording.



1 Depress AUTO PAUSE (⏸ ON).

2 Press ► to start play.

To cancel auto pause function
Press AUTO PAUSE again (⏸ OFF).

INFORMATION DISPLAY

During play, the display shows one of the following types of information. The display modes can be switched each time the TIME button is pressed.

	Normal play (MULTI, SINGLE)	PROGRAM, SHUFFLE play
During play	1 Track No. 5 0 2 1 4 Elapsed playing time of the selection Index No. or program No.	
↓ TIME	2 3 3 2 5 Remaining time of the selection	
↓ TIME	3 10 3 8 Elapsed time of the disc	Returns to 1.
↓ TIME	4 4 2 5 1 Remaining time of the disc	
↓ TIME	Returns to 1.	

Use the TIME button while the player is not playing the disc to get the following information.

Before playing (standby)	While choosing a selection	Before performing program play (standby)
	 Playing time of the selection	
 Total number of the selections on the disc Total playing time of the disc	 Total time counted from the beginning of the disc to the end of the selection being chosen	 Total playing time of the program*

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts. The flexible board is easily damaged and should be handled with care.

To get information on another disc in MULTI play mode
Press the DISC SELECT button corresponding to the disc to be checked so that the DISC SELECT indicator of the disc lights in green. Use then the TIME button.

- Notes**
- Information on the time can be displayed only when the disc compartment is closed.
 - If you have programmed selections with the disc compartment open, information on the time is displayed only after the compartment is closed and the player has read the contents of the disc(s).
 - In the MULTI play mode, the disc compartment may rotate when the TIME button is activated so that the player can read the disc contents.

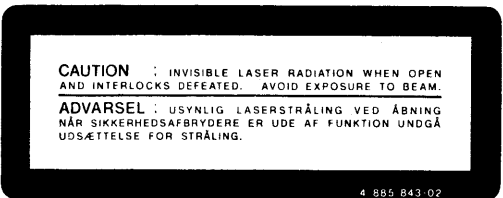
ADVARSEL!!

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 30 cm fra den optiske pick-up.

LASER ADVARSEL MÆRKNING

Følgende mærkning findes indvendig i apparatet:

1. Advarsel Mærkning



1. Data for Laser Diode

- Materiale: Ga-As
- Bølgelængde: 780 nm
- Udstråling: Kontinuerlig
- Laser Output: max. 0.4 mW*
* målt i 1.6 mm afstand fra overfladen af objektiv-linsen på den optiske pick-up enhed.
- Klassifikation: Svarende til 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.

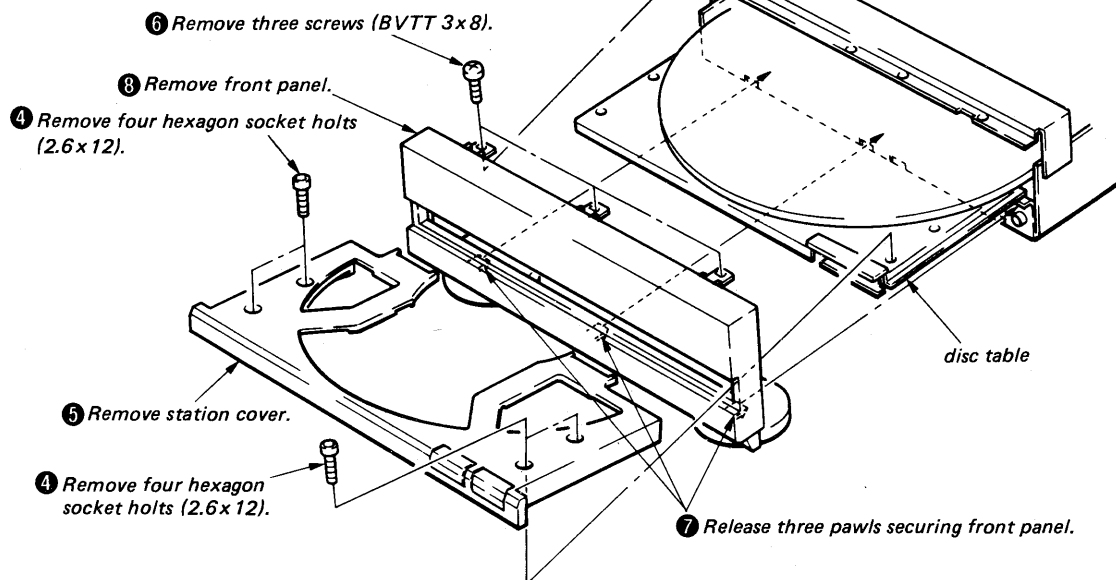
SECTION 2 DISASSEMBLY

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

FRONT PANEL

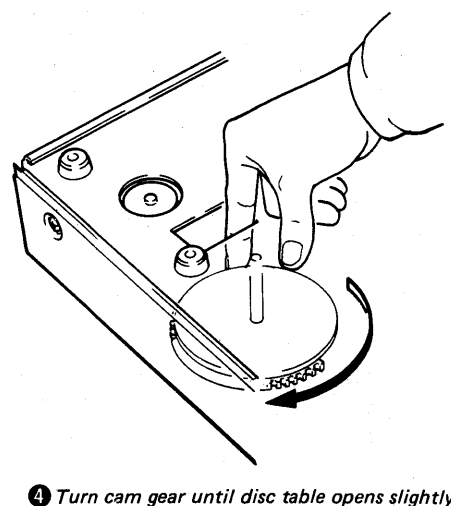
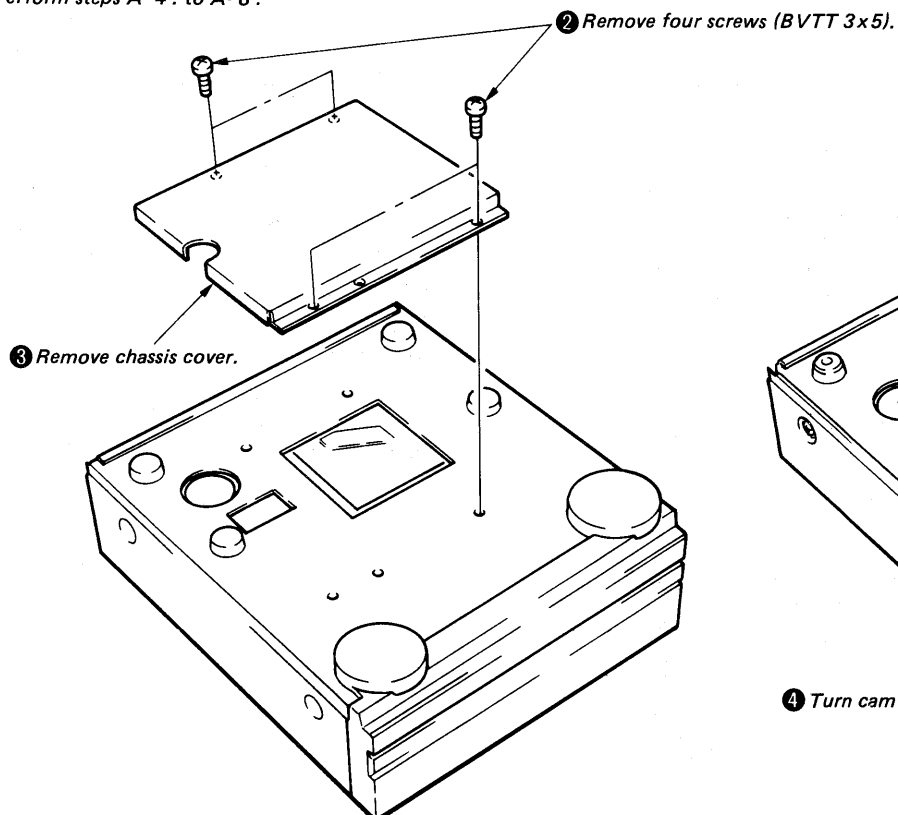
A. When disc table opens automatically by pressing OPEN/CLOSE button;

- ① Remove top cover.
- ② Press POWER switch to turn the power on.
- ③ Press OPEN/CLOSE button to open disc table.



B. When disc table does not open even if OPEN/CLOSE button is pressed;

- ① Remove top cover.
- ⑤ Pull disc table by hand and open.
- ⑥ Perform steps A- 4 . to A- 8 .



- ④ Turn cam gear until disc table opens slightly.

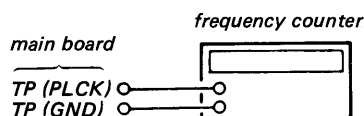
SECTION 3 ADJUSTMENTS

SETTING (FOR ADJUSTMENT)

1. Turn RV506 and RV507 clockwise fully.
2. Switch on the power and open the disc table pressing OPEN/CLOSE button.
3. Switch off the power.
4. Put the test disc YEDS-18 (3-702-101-01) into the disc position.
5. Ground the test point CHECK MODE 1 on MAIN BOARD.
6. Switch on the power again, and ready to adjust.

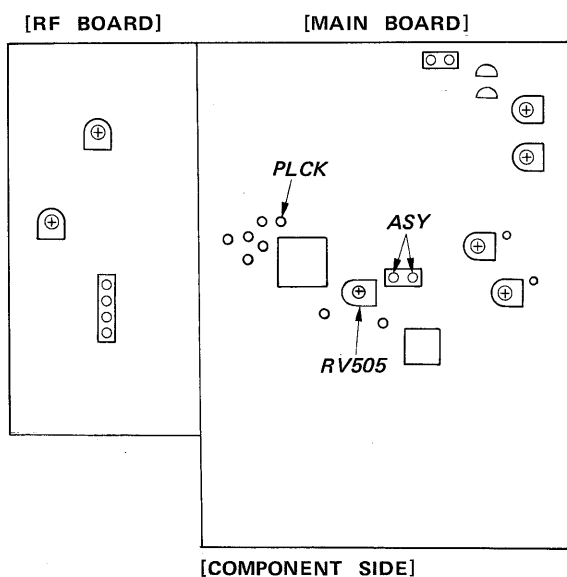
RF PLL Frequency Adjustment/Lock Frequency Check

Procedure:



1. Ground test point TP (ASY).
2. Connect the frequency counter to the test points TP (PLCK) and TP (GND).
3. Turn POWER switch on.
4. Adjustment RV505 so that the reading on the frequency counter is 4.3218 MHz $\pm$ 30 kHz. (RF PLL frequency adjustment)
5. Remove the grounding wire from TP (ASY).
6. Put the disc (YEDS-18) in and press $\triangleright$ button.
7. Confirm that the reading on the frequency counter is locked at 4.3218 MHz.

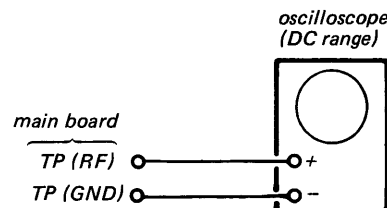
Adjustment Location: main board



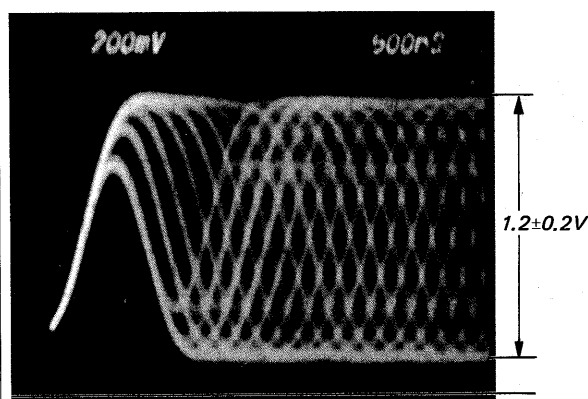
Focus Bias Adjustment

This adjustment should be made after replacing the Optical Pick-up Block.

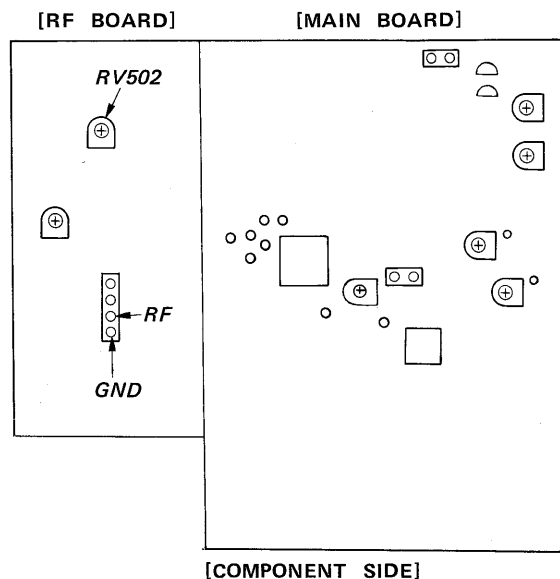
Procedure:



1. Connect oscilloscope to the test points TP (RF) and TP (GND).
2. Turn POWER switch on.
3. Put the disc (YEDS-1) in and press $\triangleright$ button.
4. Adjust RV502 for an optimum waveform eye pattern. Optimum eye pattern means that shape "◇" can be clearly distinguished at the center of the waveform.



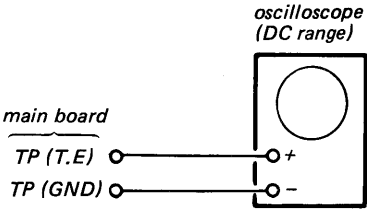
Adjustment Location: RF board



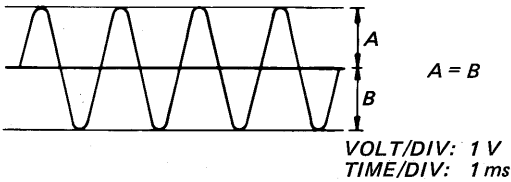
E-F Balance Adjustment

This adjustment should be made after replacing the Optical Pick-up Block.

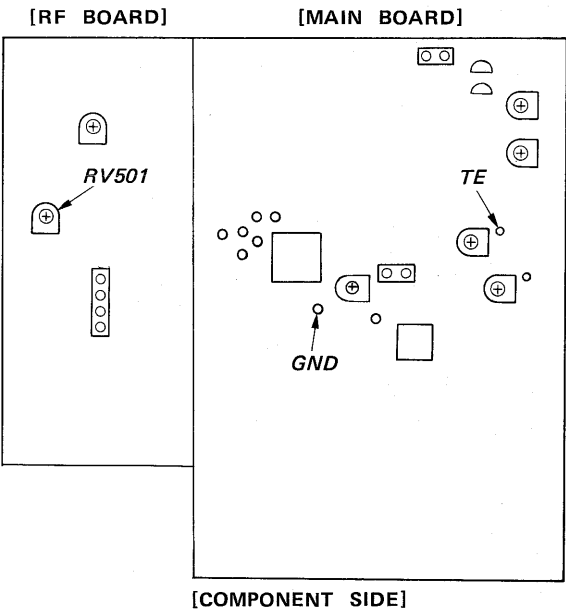
Procedure:



- 1. Connect the oscilloscope to the test points TP (T.E) and TP (GND).
- 2. Ground TP (ASY) to set an adjustment mode.
- 3. Turn POWER switch on.
- 4. Put the disc (YEDS-18) in and press ▷ button.
- 5. Adjust RV501 so that the traverse waveform is symmetrical above and below.
- 6. After adjustment, cancel the adjustment mode.

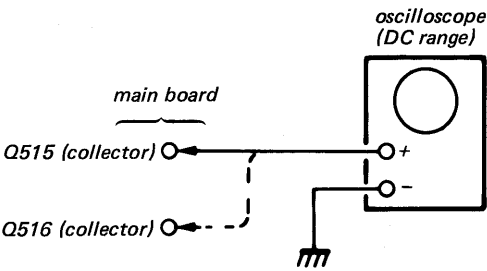


Adjustment Location: main board, RF board



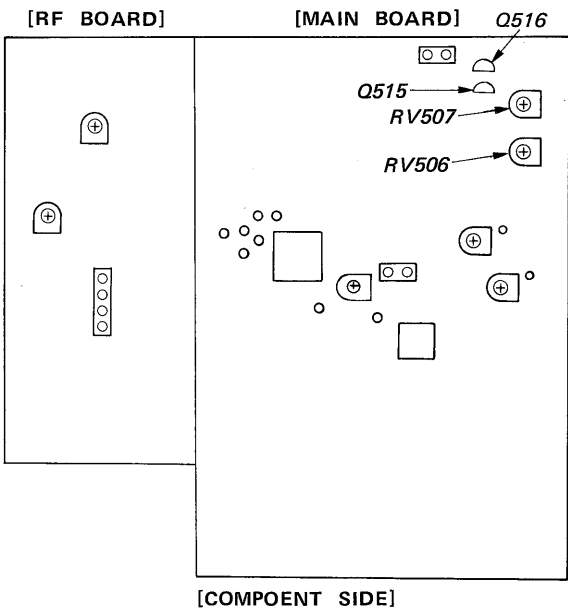
SENSITIVITY ADJUSTMENT OF DISC SENSOR & DISC COUNT SENSOR

- 1. Open the disc table.
- 2. Press SINGLE button of DISC PLAY MODE buttons.
- 3. Connect the oscilloscope to the collector of Q515.
- 4. Check if the voltage at the collector of Q515 (disc count sensor amp) is more than 2.5 V, turning the disc table with DISC SKIP BUTTON.
- 5. If the specification above is not met, adjust RV506 so that the voltage will satisfy the specification level.
- 6. As to Q516, take the same procedures as Q515. To adjust the voltage, turn RV507.



• SPECIFICATION
2.5 V more than

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, this adjustment is not recommended generally to be performed.

Focus/tracking gains determine the pick-up follow-up (vertical and horizontal) relative to mechanical noise and mechanical shock when the 2-axis device operate.

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.

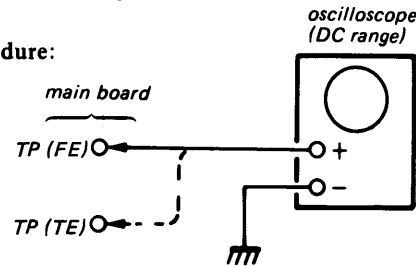
Symptoms \ Gain	Focus	Tracking
● The time until music starts becomes longer for STOP → ▶PLAY or automatic selection (⏮ , ⏭ buttons pressed. (Normally takes about 2 seconds.)	low	low or high
● Music does not start and disc continues to rotate for STOP → ▶PLAY or automatic selection (⏮ , ⏭ buttons pressed.)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

The following is a simple adjustment method.

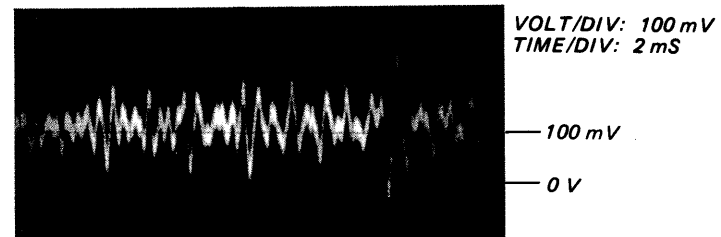
– Simple Adjustment –

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.

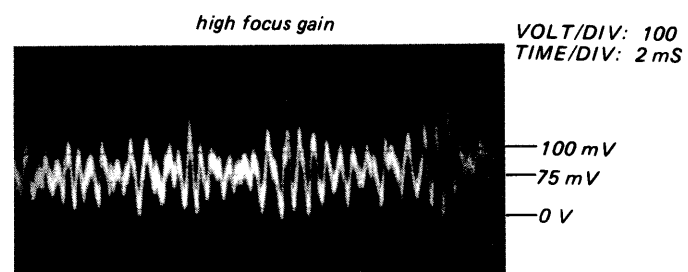
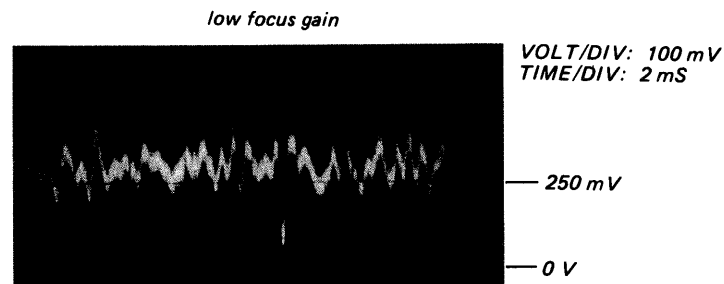
Procedure:



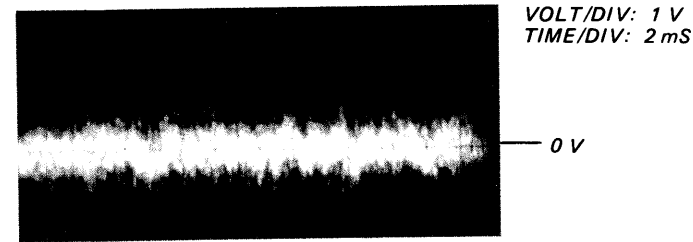
1. Keep the set flat.
If the set is not horizontal, this adjustment cannot be performed due to the gravity against the 2 axis device.
2. Insert the disc (YEDS-18) and press ▷ PLAY button.
3. Connect the oscilloscope to TP (FE) and TP (GND).
4. Adjustment RV503 so that the waveform is as shown in the picture below. (focus gain adjustment)



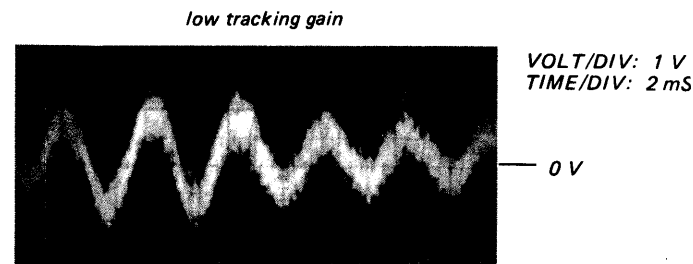
- Incurrent Examples (DC level is quite different from the adjusted waveform) (below)



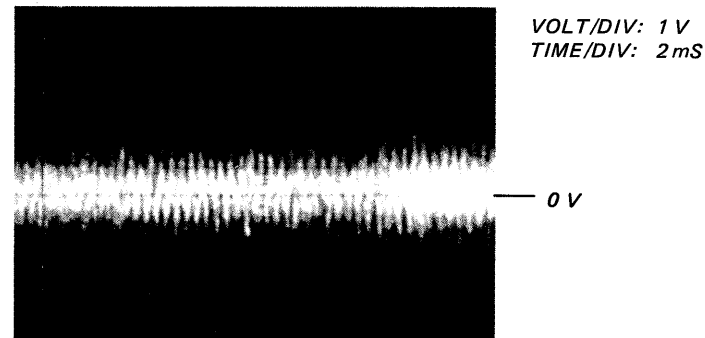
5. Connect the oscilloscope to TP (TE).
6. Adjust RV504 so that the waveform is as shown in the picture below. (tracking again adjustment)



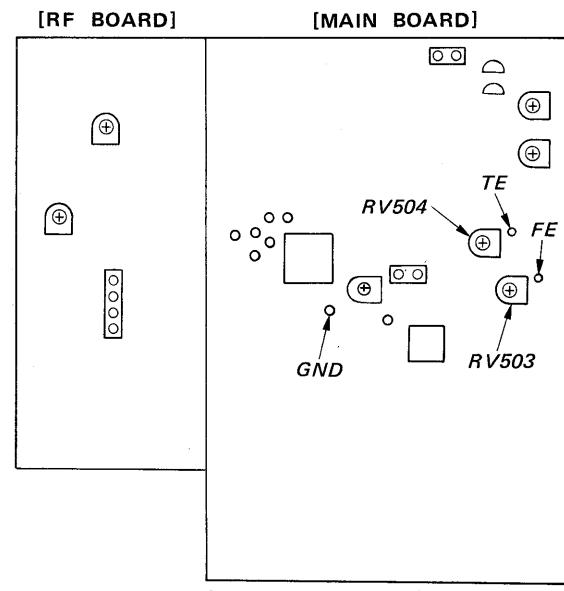
- **Incorrect Examples (fundamental wave appears)**



*high tracking gain
(higher frequency of the fundamental wave
than above)*

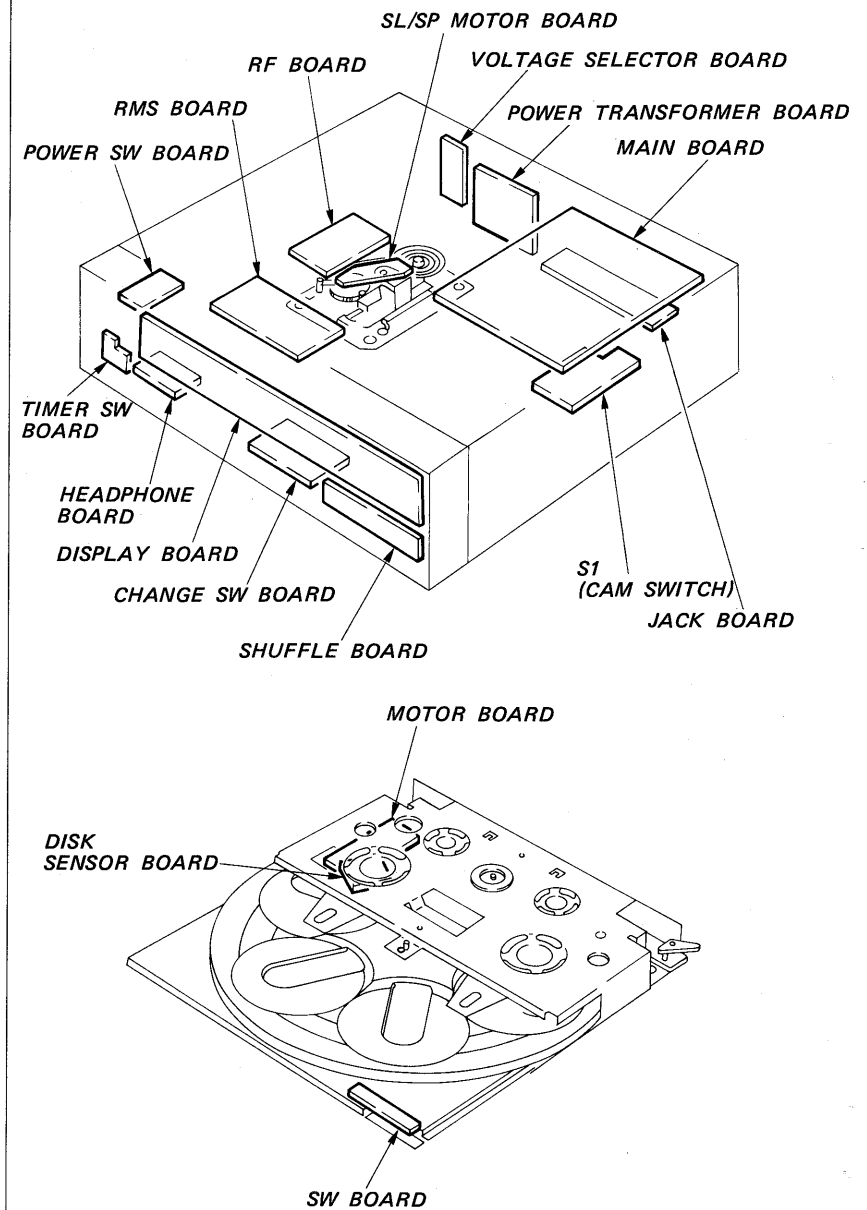


Adjustment Location: main board



SECTION 4.

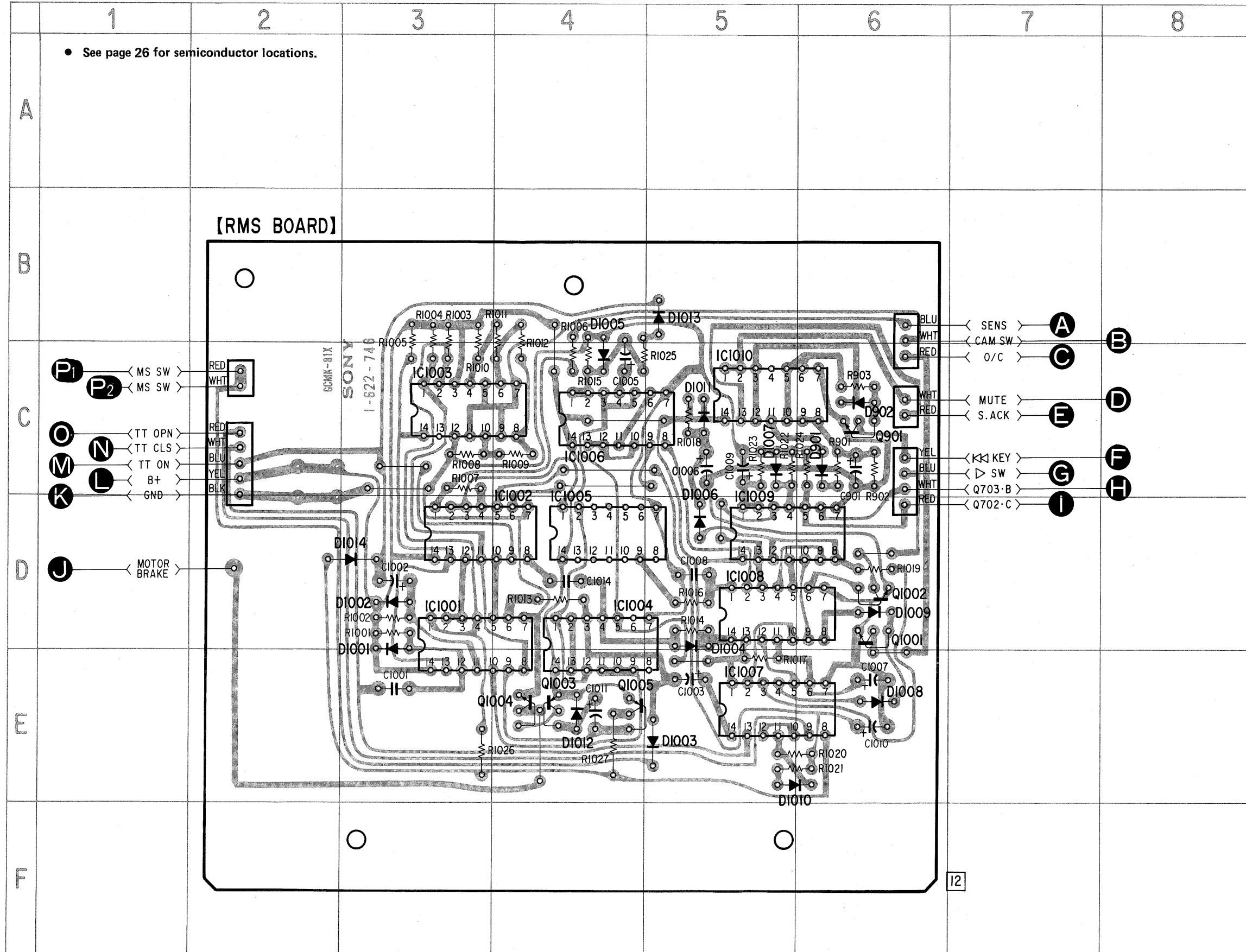
CIRCUIT BOARDS LOCATION



SECTION 5 DIAGRAMS

CDP-C5M CDP-C5M

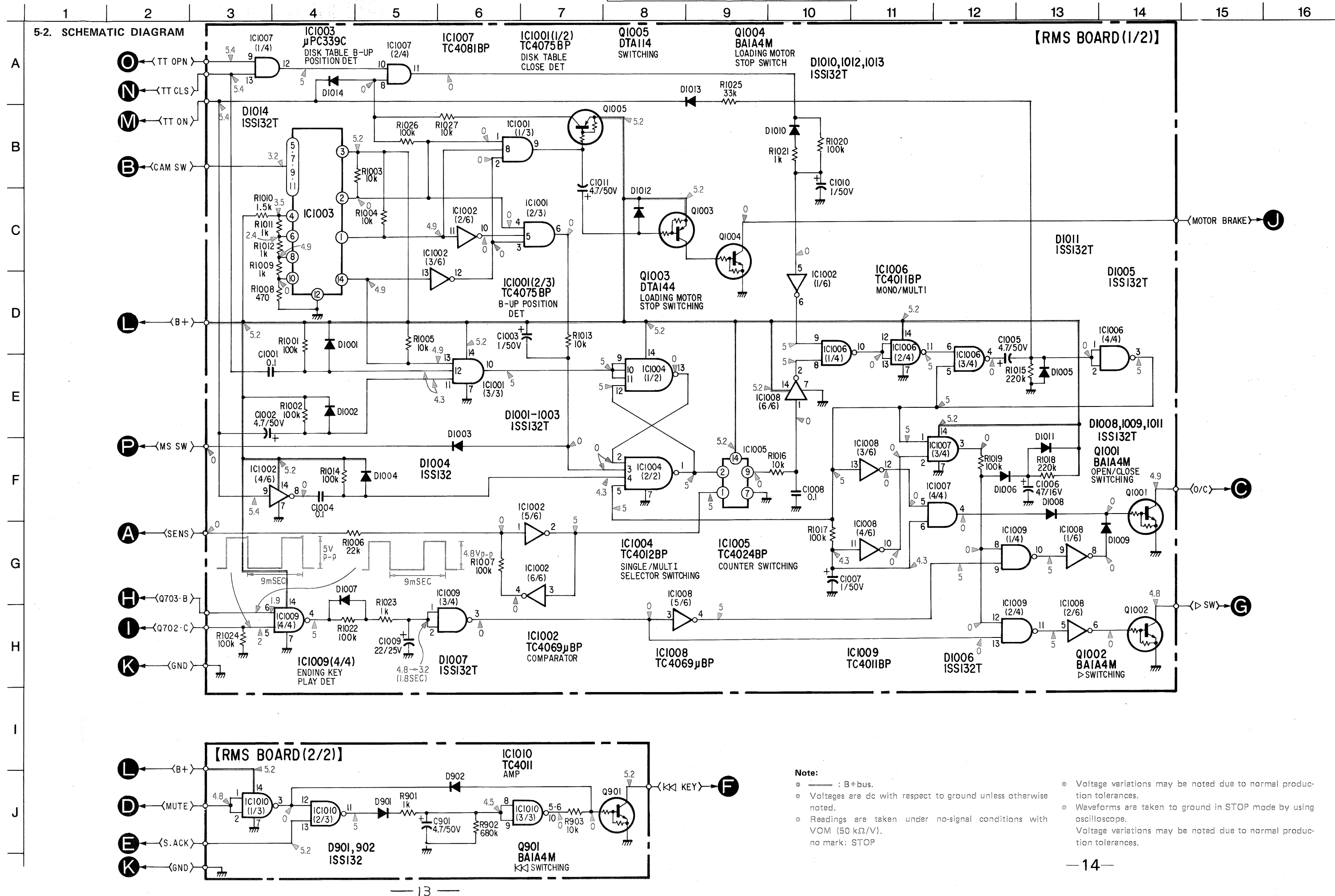
5-1. MOUNTING DIAGRAM



Note:

- — : parts extracted from the component side.
- : part mounted on the conductor side.

5-2. SCHEMATIC DIAGRAM

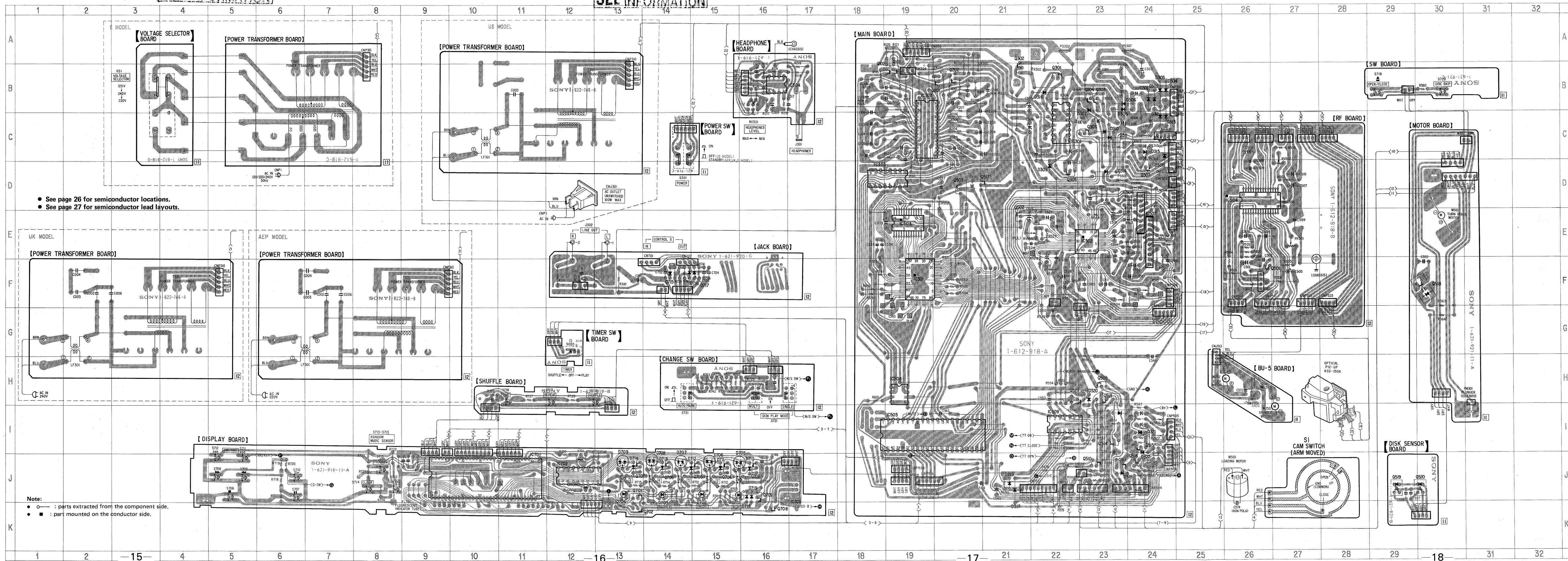


SEE ADDITIONAL
INFORMATION

CDP-C5M CDP-C5M

SEE ADDITIONAL
INFORMATIONSEE ADDITIONAL
INFORMATION

CDP-C5M CDP-C5M



SEE ADDITIONAL INFORMATION

CDP-C5M

CDP-C5M

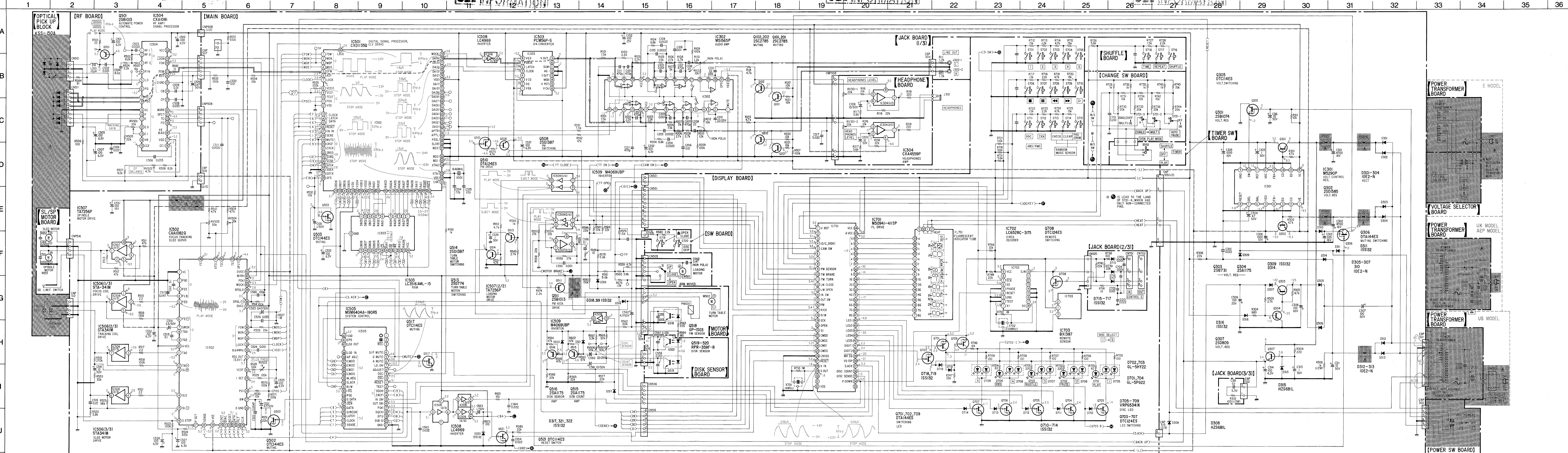
SEE ADDITIONAL INFORMATION

SEE ADDITIONAL INFORMATION

CDP-C5M

CDP-C5M

SEE ADDITIONAL INFORMATION



Note on Schematic Diagram:

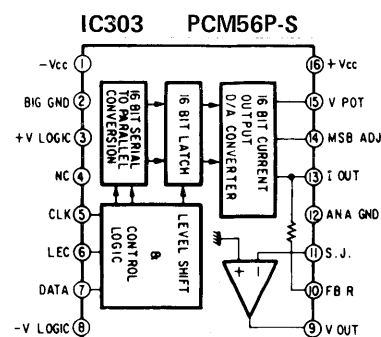
- All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
-  : nonflammable resistor.
-  : L-CH Signal path.
-  : R-CH Signal path.
-  : B+ bus.
-  : 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 k Ω /V).
- no mark: STOP
- Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken to ground in STOP mode by using oscilloscopes.
- Voltage variations may be noted due to normal production tolerances.

Switches:

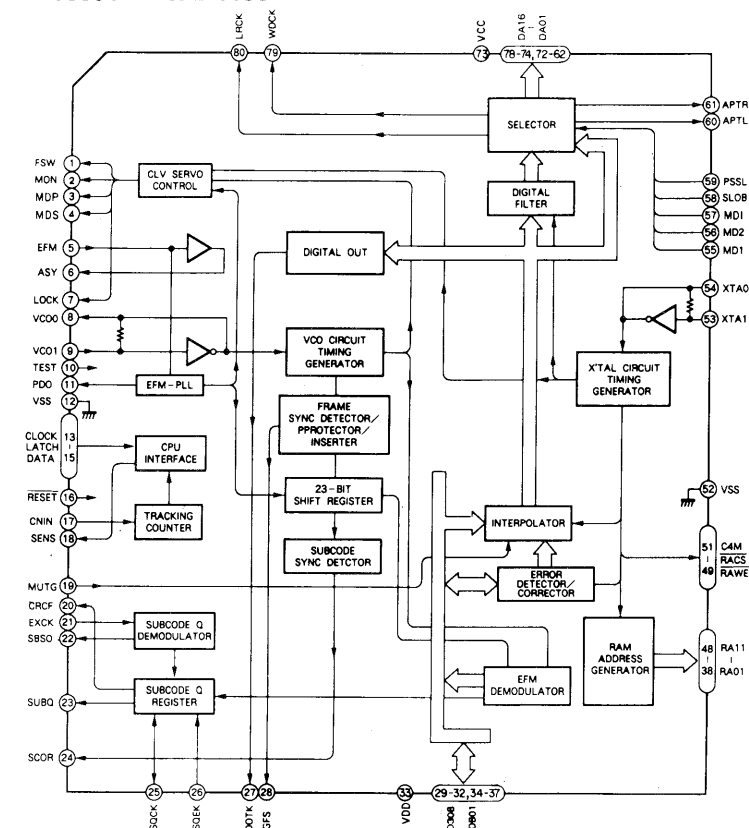
Ref. No.	Switch	Position
S1	ARM MOVED	UP
S002	TIMER	OFF
S10	LIMIT	ON
S301	POWER	OFF
S701	1	OFF
S702	2	OFF
S703	3	OFF
S704	4	OFF
S705	5	OFF
S706	■	OFF
S707	■	OFF
S708	◀	OFF
S709	▶	OFF
S710	◀▶	OFF
S711	◀▶	OFF
S712	◀▶	OFF
S713	CHECK	OFF
S714	CLEAR	OFF
S715	PROGLAM	OFF
S716	SHUFFLE	OFF
S717	REPEAT	OFF
S718	TIME	OFF
S719	OPEN/CLOSE	CLOSE
S720	DISK SKIP	OFF
S721	DISK PLAY MODE	OFF
VS1	VOLTAGE SELECTOR (E model)	120V

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

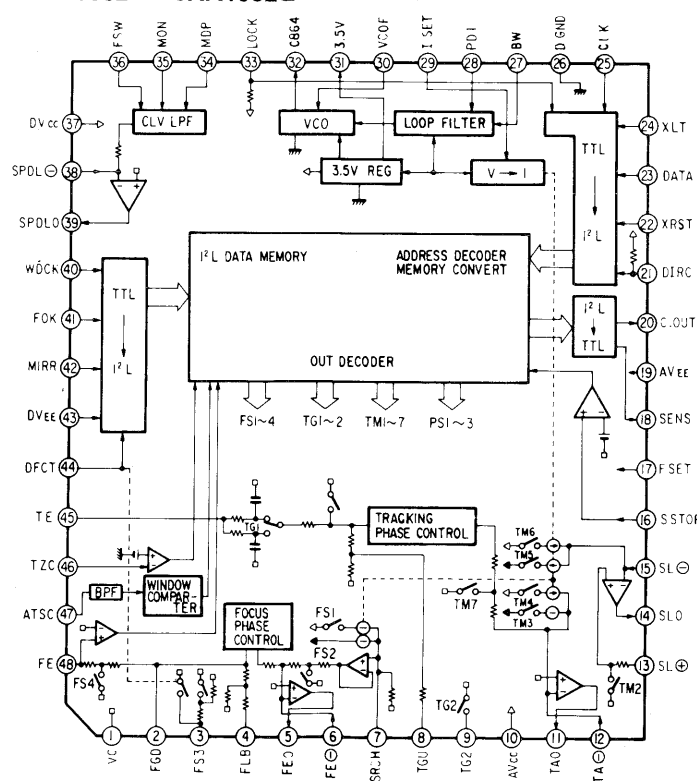
IC BLOCK DIAGRAMS



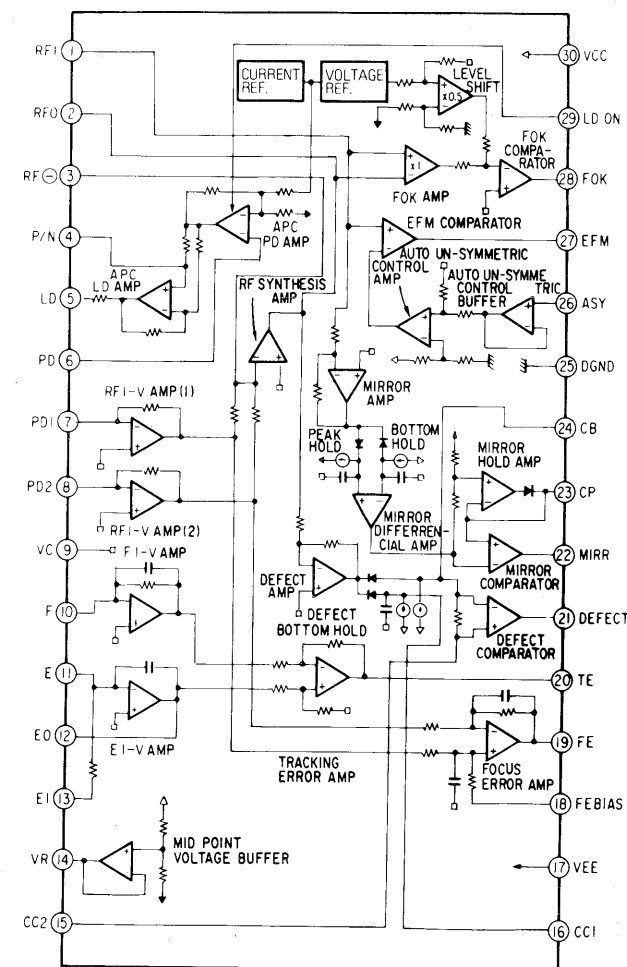
IC501 CXD1135Q



IC502 CXA1082Q



IC504 CXA1081M



● SEMICONDUCTOR LOCATIONS

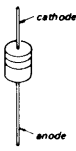
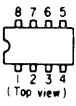
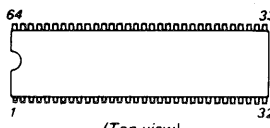
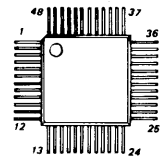
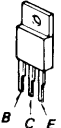
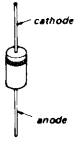
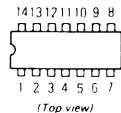
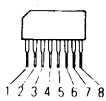
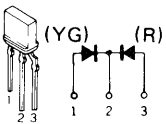
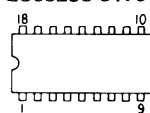
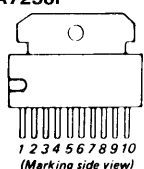
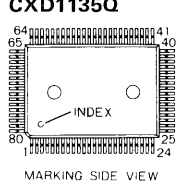
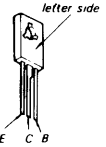
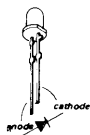
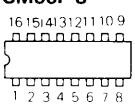
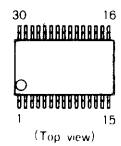
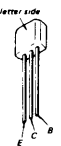
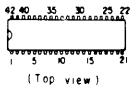
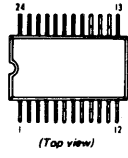
[MAIN BOARD]

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D301	B-24	D711	J-15	Q302	A-21
D302	B-24	D712	J-14	Q303	B-23
D303	B-24	D713	J-14	Q304	B-23
D304	B-24	D714	J-13	Q305	D-22
D305	C-23	D715	F-14	Q306	C-23
D306	B-24	D716	F-15	Q307	D-24
D307	C-23	D717	F-15	Q501	F-27
D308	D-24	D718	K-16	Q502	D-21
D309	D-22	D719	J-16	Q503	D-20
D310	C-23			Q508	H-23
D311	C-23	IC301	C-22	Q510	J-23
D312	C-24	IC302	B-19	Q511	J-23
D313	C-24	IC303	D-18	Q513	H-23
D314	D-23	IC304	B-17	Q514	I-23
D315	C-24	IC501	F-19	Q515	I-24
D316	B-22	IC502	E-23	Q516	J-24
D317	K-21	IC503	E-19	Q517	D-21
D318	J-23	IC504	D-26	Q518	F-30
D319	J-21	IC505	I-19	Q519	J-29
D320	H-23	IC506	D-24	Q520	J-30
D321	I-24	IC507	E-24	Q521	H-22
D322	J-24	IC508	H-19	Q701	J-13
D701	J-15	IC509	I-22	Q702	K-14
D702	J-15	IC701	J-11	Q703	J-16
D703	J-14	IC702	J-12	Q704	J-15
D704	J-13	IC703	J-17	Q705	J-15
D705	J-15			Q706	J-14
D706	J-15	Q101	A-19	Q707	J-13
D707	J-14	Q102	B-18	Q708	K-16
D708	J-14	Q201	B-20	Q709	J-16
D709	I-13	Q202	B-20		
D710	J-16	Q301	B-22		

[RMS BOARD]

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D901	C-6	D1011	C-5	IC1008	D-5
D902	C-6	D1012	E-4	IC1009	D-5
D1001	D-3	D1013	B-5	IC1010	C-5
D1002	D-3	D1014	D-3		
D1003	E-5			Q901	C-6
D1004	D-5	IC1001	D-3	Q1001	D-6
D1005	B-4	IC1002	D-4	Q1002	D-6
D1006	C-5	IC1003	C-3	Q1003	E-4
D1007	C-5	IC1004	D-4	Q1004	E-4
D1008	E-6	IC1005	D-4	Q1005	E-4
D1009	D-6	IC1006	C-4		
D1010	E-5	IC1007	E-5		

● Semiconductor Lead Layouts

HZS6B1L 	CXA4559P LC4969  (Top view)	M50941-411SP  (Top view)	CXA-1082AQ 	2SB1094-L 
10E2N 1SS132 	M4069UBP TC4011BP TC4012BP TC4024BP TC4069μBP TC4075BP TC4081BP μPC339C  (Top view)	STA341M 	M51565P 	2SD774 
VRPG5341K 	LC6528C-3175  (Top view)	TA7256P  (Marking side view)	CXD1135Q  MARKING SIDE VIEW	2SB731 2SD809 
GL-5PG22 GL-5HY22 	M5290P PCM56P-S  (Top view)	CXA1081M  (Top view)	2SB1013 2SD1387 	2SA1175 2SC3623-L 
	MSM6404A-180RS  (Top view)	LC3516AML-15  (Top view)	2SC3402 2SC3399 2SA1346 2SA1348 2SC3400 	

SECTION 6 EXPLODED VIEWS AND PARTS LIST

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• The construction parts of an assembled part are indicated with a collation number in the remark column.

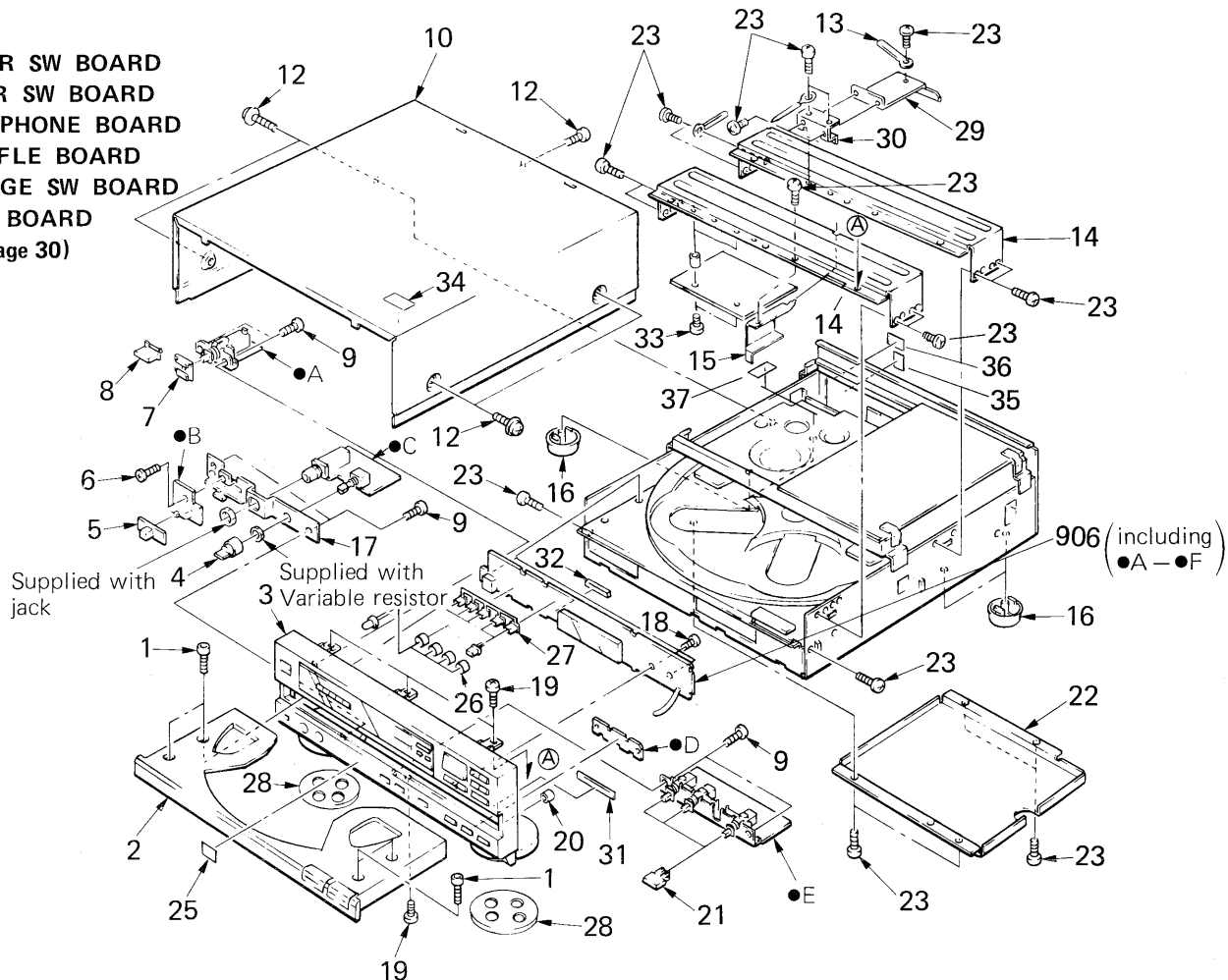
• Color Indication of Appearance Parts
Example: (RED) KNOB, BALANCE (WHITE)

Cabinet's Color Parts' Color

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

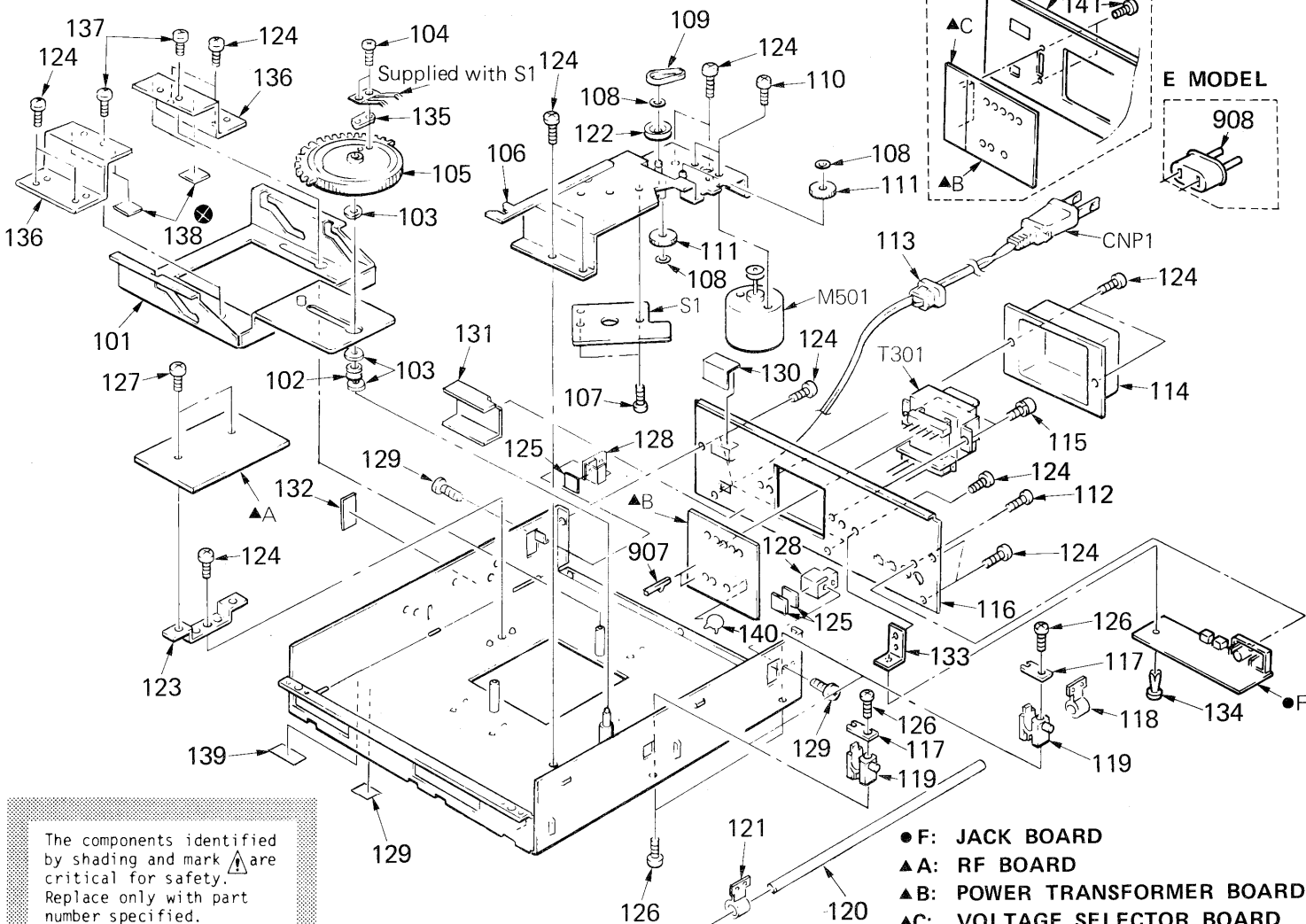
6-1. FRONT PANEL

- A: POWER SW BOARD
 - B: TIMER SW BOARD
 - C: HEADPHONE BOARD
 - D: SHUFFLE BOARD
 - E: CHANGE SW BOARD
 - F: JACK BOARD
- (See page 30)



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
1	7-683-415-05	BOLT, HEXAGON SOCKET 2.6X12		20	3-538-051-00	RUBBER, BRAKE	
2	X-4919-411-1	COVER ASSY, STATION		21	4-919-409-01	BUTTON, SQUARE	
3	X-4919-410-1	(US).....PANEL ASSY, FRONT		22	*4-919-453-01	COVER, CHASSIS	
	X-4919-414-1	(AEP,UK,E)...PANEL ASSY, FRONT		23	7-682-546-04	SCREW +BVTT 3X5 (S)	
4	3-304-929-11	KNOB, HEADPHONE		25	3-703-713-41	STICKER, SONY SYMBOL (10)	
5	3-323-415-31	KNOB, SWITCH TIMER		26	*4-901-657-11	SPACER (A), LED	
6	7-627-556-57	PRECISION SCREW +P 2.6X5 TYPE1		27	*4-919-445-01	HOLDER (B), LED	
7	4-875-466-00	JOINT (F2), KNOB		28	4-917-236-01	FELT, FOOT	
8	4-907-611-01	KNOB, POWER		29	*4-921-016-01	REINFORCEMENT, CHUCKING BLOCK (BU-5 only)	Refer to page 32 (●)
9	7-685-146-14	SCREW +P 3X8 TYPE2 NON-SLIT		30	*4-921-014-01	REINFORCEMENT (SB)	
10	4-919-460-01	CASE		31	4-921-020-01	SPACER (PANEL)	
12	7-682-147-09	SCREW, M3 CASE		32	3-314-903-00	CUSHION 4X8	
13	3-703-150-11	CLAMP		33	7-685-874-09	BVTT 3X12	
14	*4-919-447-01	REINFORCEMENT		34	*4-919-488-01	LABEL, CAUTION	
15	*4-919-475-01	REINFORCEMENT (M)		35	*3-704-217-01	(US)...LABEL, CERTIFICATION	
16	X-3701-069-0	FOOT ASSY, M.F		36	*4-885-838-00	(AEP,UK,E)...LABEL, CLASS 1	
17	*4-919-415-01	BRACKET, FRONT PC BOARD		37	4-885-843-02	(AEP,UK,E)...LABEL, CAUTION, LASER	
18	7-685-133-19	SCREW +P 2.6X6 TYPE2 SLIT		906	*A-4655-041-A	MOUNTED PCB, INDICATION	
19	7-682-148-01	SCREW +BVTT 3X8 (S)					

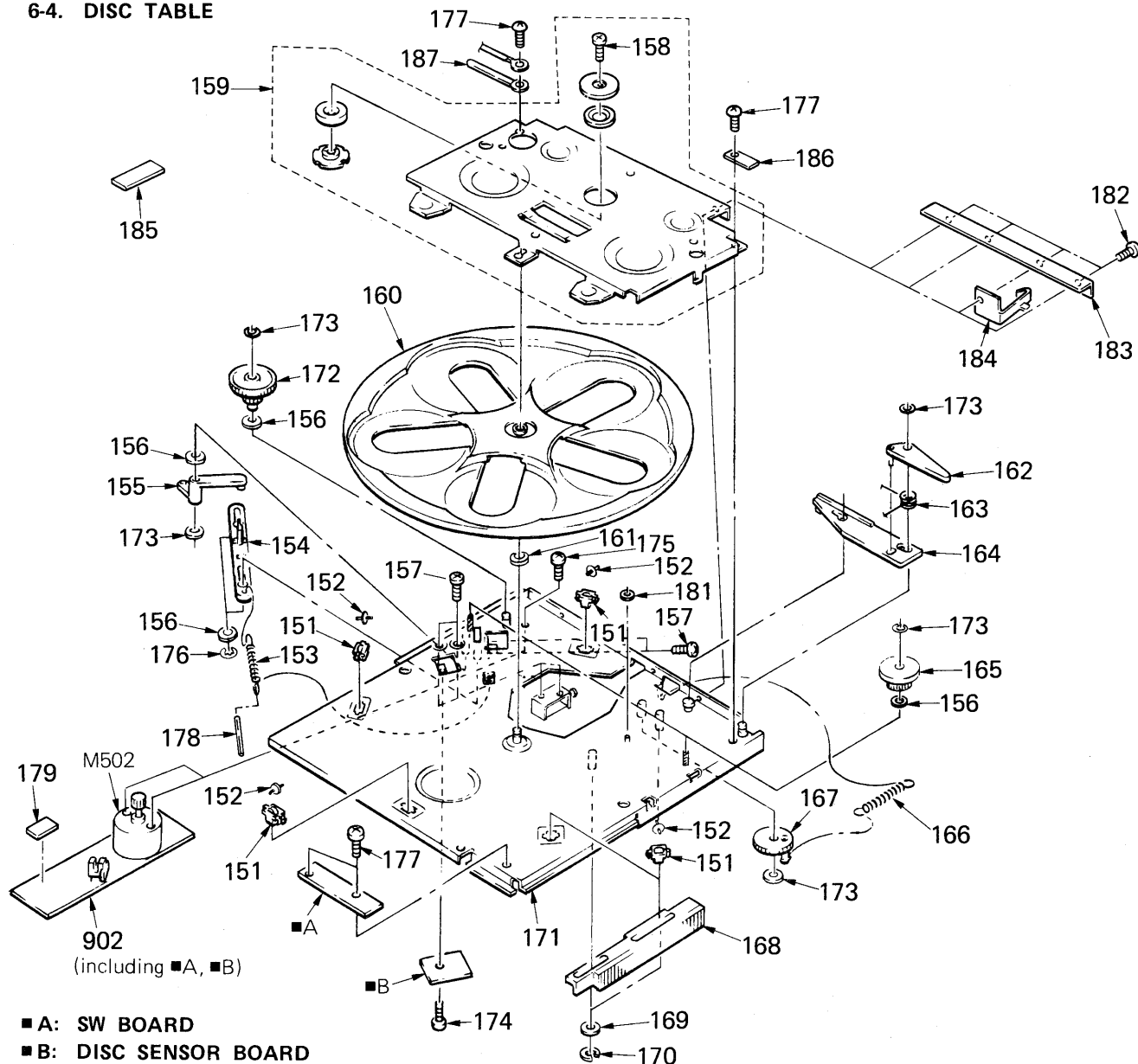
6-3. REAR PANEL/CONTROL SW BASE



No.	Part No.	Description	Remarks
101	*X-4919-413-1	SLIDER ASSY	
102	*4-919-423-01	ROLLER (G)	
103	3-701-441-21	WASHER	
104	7-685-799-04	SCREW (1.7X2.5), TAPPING	
105	4-919-452-01	GEAR, CAM	
106	*X-4919-409-1	BASE ASSY, CONTROL SW	
107	7-685-790-04	SCREW +PTT 2.6X4 (S)	
108	3-558-708-21	WASHER, STOPPER	
109	3-653-387-00	BELT, LM	
110	4-885-599-00	SCREW, FITTING, REINFORCEMENT	
111	4-910-402-01	GEAR (2), LOADING	
112	7-685-146-14	SCREW +P 3X8 TYPE2 NON-SLIT	
113	*3-703-244-00	(US,AEP,UK)...BUSHING (2104), CORD	
	*3-703-571-11	(E).....BUSHING (S)(4516), CORD	
114	*4-919-414-01	COVER, TRANSFORMER	
115	7-682-160-01	SCREW +BVTT 4X6 (S)	
116	*4-919-401-11	(US)....PANEL, BACK	
	*4-919-401-21	(AEP)....PANEL, BACK	
	*4-919-401-31	(AEP2)....PANEL, BACK	
	*4-919-401-41	(E)....PANEL, BACK	
	*4-919-401-51	(UK)....PANEL, BACK	
117	*4-915-481-01	RETAINER, GUIDE BAR	
118	*4-919-425-01	GUIDE (L)	
119	*4-915-468-01	RETAINER, BAR, GUIDE	
120	*4-919-426-01	BAR, GUIDE	
121	*4-919-473-01	GUIDE (LF)	
122	4-913-731-01	PULLEY, ROADING	
123	*4-919-422-01	BRACKET, RF	
124	7-682-546-04	SCREW +BVTT 3X5 (S)	

No.	Part No.	Description	Remarks
125	9-911-838-XX	PACKING, KNOB	
126	7-685-646-79	SCREW +BVTP 3X8 TYPE2 SLIT	
127	7-682-147-01	SCREW +BVTT 3X6 (S)	
128	*4-919-480-01	STOPPER	
129	3-703-680-00	(US)...LABEL, CAUTION, SUB, NEW, UL	
130	4-921-015-01	(US)...COVER, POWER	
131	4-919-499-01	(US,AEP,UK)...COVER, FILTER	
132	9-911-840-XX	CUSHION	
133	*4-881-514-00	BRACKET (C), PULLEY	
134	4-818-403-00	RIVET, NYLON	
135	*4-921-009-01	WASHER	
136	*4-919-498-01	REINFORCEMENT (BU)	
137	7-682-550-04	SCREW +B 3X12	
138	*4-921-001-01	SPACER (BU)	
139	3-703-079-21	(UK)...LABEL, SUB CAUTION	
140	4-908-017-11	(US)...COVER, CONDENSOR	
141	7-685-134-19	(E)....SCREW +P 2.6X8 TYPE 2 NON-SLIT	
907	*1-535-476-11	TERMINAL	
908	1-526-565-00	(E3)...ADAPTOR, AC PLUG	
CNP1	*1-551-472-00	(E)....CORD, POWER	
CNP1	*1-551-478-00	(US)...CORD, POWER	
CNP1	*1-551-884-00	(UK)...CORD, POWER	
CNP1	*1-555-795-00	(AEP)...CORD, POWER, EULO PLUG	
M501	X-4919-419-1	MOTOR ASSY, LOADING	
S1	1-571-026-11	SWITCH (ARM MOVED)	
T301	*1-448-842-11	(US)....TRANSFORMER, POWER	
T301	*1-448-843-11	(AEP,UK)...TRANSFORMER, POWER	
T301	*1-448-844-11	(E)....TRANSFORMER, POWER	

6-4. DISC TABLE

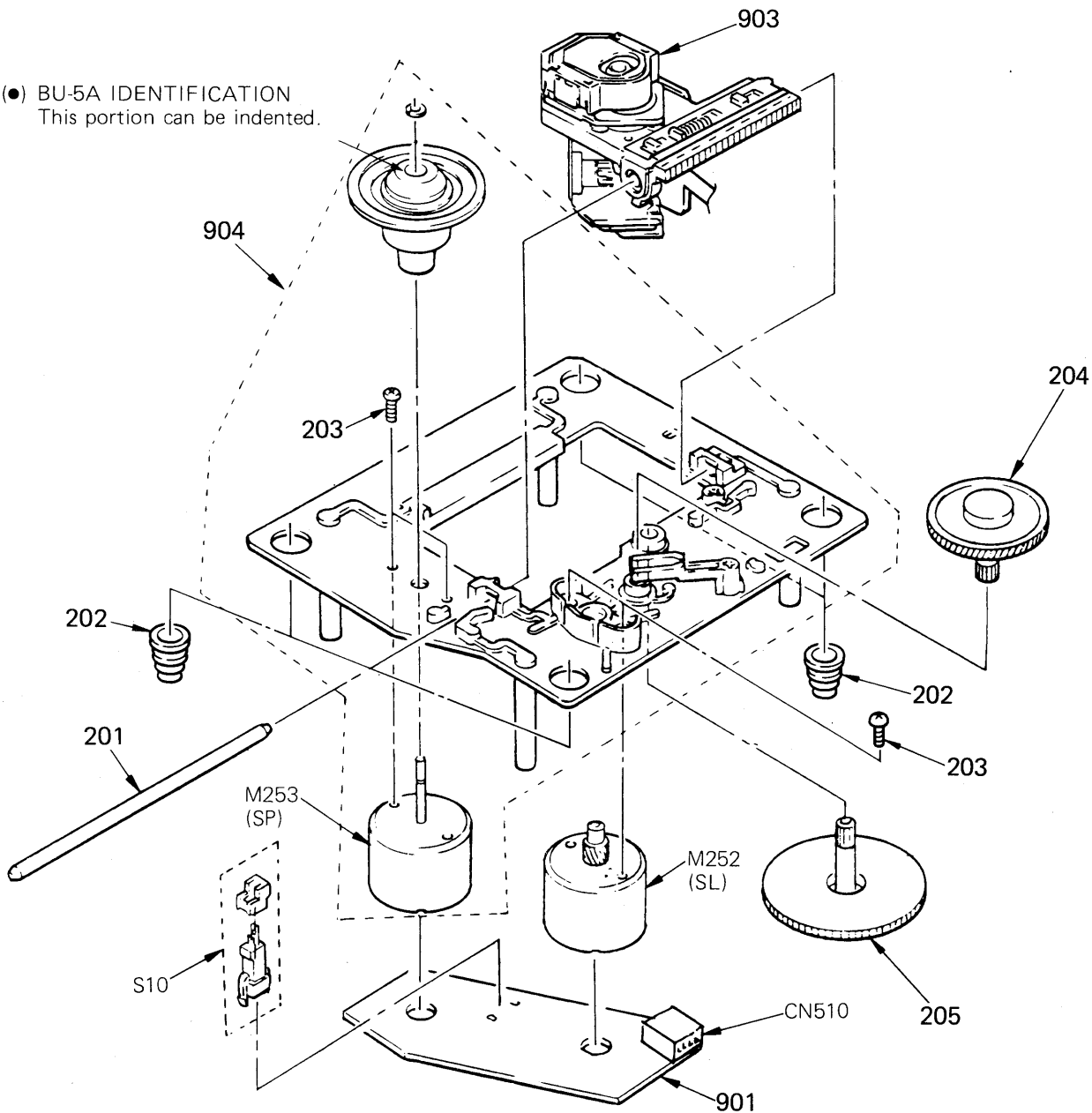


No.	Part No.	Description	Remarks
151	4-919-419-01	HOLDER, ROLLER	
152	*X-4919-418-1	ROLLER (T) ASSY	
153	4-919-421-01	SPRING, TENSION	
154	4-919-451-01	SLIDER (ST)	
155	4-919-416-01	LEVER (ST)	
156	3-701-439-21	WASHER (t=0.5)	
157	7-682-545-09	SCREW +B 3X4	
158	7-685-132-19	SCREW +P 2.6X5 TYPE2 NON-SLIT	
159	A-4681-008-A A-4681-012-A	CHUCKING ASSY (BU-5)	Refer to CHUCKING ASSY (BU-5A) page 32 (●)
160	4-918-028-11	STATION, ROTARY	
161	3-701-443-21	WASHER, 5	
162	4-919-418-01	LEVER (S)	
163	4-919-420-01	SPRING	
164	4-919-417-01	SLIDER (S)	
165	4-915-460-01	GEAR (B)	
166	4-910-429-01	SPRING, TENSION (LIMITER GEAR)	
167	4-910-401-01	GEAR, LIMITER	
168	4-919-450-01	RACK	

No.	Part No.	Description	Remarks
169	7-688-004-11	W 4, MIDDLE	
170	7-624-106-04	STOP RING 3.0, TYPE -E	
171	*X-4919-412-1	BASE ASSY, STATION	
172	4-915-463-01	GEAR (A)	
173	3-558-708-21	WASHER, STOPPER	
175	7-621-775-08	SCREW +B 2.6X3	
176	7-624-104-04	STOP RING 2.0, TYPE -E	
177	7-685-870-09	SCREW +BVT 3X5 (S)	
178	*4-921-008-01	CUSHION	
179	*4-919-489-01	CUSHION (PM)	
181	*4-921-019-01	SPACER (ST)	
182	7-682-148-01	SCREW +BVT 3X8 (S)	
183	4-919-491-01	REINFORCEMENT (S)	
184	*4-921-006-01	SPRING	
185	3-831-441-XX	CUSHION (B), CABINET	
186	*4-921-013-01	NUT, PLATE	
902	*1-621-921-11	PC BOARD, TRAY	
M502	X-4919-420-1	MOTOR ASSY, TURNTABLE	

6-5. BASE UNIT (BU-5)
(BU-5A)

(●) BU-5A IDENTIFICATION
This portion can be indented.



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

No.	Part No.	Description
201	4-917-565-01	SHAFT, SLED
202	4-917-562-01	INSULATOR
203	7-621-255-15	SCREW +P 2X3
204	4-917-567-01	GEAR (M)
205	4-917-564-01	GEAR (P), FLATNESS

Remarks	No.	Part No.	Description	Remarks
	901	*1-620-097-11	PC BOARD, SL/SP MOTOR	
	903	*8-848-062-01	DEVICE, OPTICS (KSS-150A)	
	904	X-4917-505-1	(BU-5) ... BASE ASSY	
		X-4917-523-1	(BU-5A) .. BASE ASSY (●)	
CN510	*1-564-720-31	PIN, CONNECTOR (SMALL TYPE) 4P		
M252	X-4917-504-1	MOTOR ASSY (SLED)		
S10	1-570-822-11	SWITCH, LEAF		

SECTION 7

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:μμF.

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.

ELECTRICAL PARTS

Ref.No.	Part No.	Description
901	*1-620-097-11	PC BOARD, SL/SP MOTOR
902	*1-621-921-11	PC BOARD, TRAY
903	★ 8-848-062-01	DEVICE, OPTICS (KSS-150A)
904	X-4917-505-1	BASE ASSY (BU-5)
	X-4917-523-1	BASE ASSY (BU-5A)
905	*A-4651-121-A	(US,AEP,UK)...MOUNTED PCB, MAIN
	*A-4651-122-A	(E).....MOUNTED PCB, MAIN
906	*A-4655-041-A	MOUNTED PCB, INDICATION
907	*1-535-476-11	TERMINAL
908	1-526-565-00	(E3)...ADAPTOR, AC PLUG
C001	1-161-494-00	CERAMIC 0.022MF 25V
C002	1-161-741-00	(AEP,UK)..CERAMIC 0.001MF 10% 400V
C003	1-161-741-00	(AEP,UK)..CERAMIC 0.001MF 10% 400V
C004	1-161-741-00	(AEP,UK)..CERAMIC 0.001MF 10% 400V
C005	1-161-741-00	(US).....CERAMIC 0.001MF 10% 400V
C006	1-161-741-00	(AEP,UK)..CERAMIC 0.001MF 10% 400V
C101	1-136-478-11	FILM 470PF 5% 630V
C102	1-126-023-11	ELECT 100MF 20% 25V
C103	1-130-273-00	FILM 0.001MF 5% 100V
C104	1-136-230-00	FILM 0.0022MF 5% 100V
C105	1-136-230-00	FILM 0.0022MF 5% 100V
C106	1-136-153-00	FILM 0.01MF 5% 50V
C107	1-130-467-00	MYLAR 470PF 5% 50V
C108	1-124-187-11	ELECT 22MF 20% 50V
C109	1-123-875-91	ELECT 10MF 20% 50V
C110	1-124-282-00	ELECT 22MF 20% 25V
C111	1-162-290-31	CERAMIC 470PF 10% 50V
C201	1-136-478-11	FILM 470PF 5% 630V
C202	1-126-023-11	ELECT 100MF 20% 25V
C203	1-130-273-00	FILM 0.001MF 5% 100V
C204	1-136-230-00	FILM 0.0022MF 5% 100V
C205	1-136-230-00	FILM 0.0022MF 5% 100V
C206	1-136-153-00	FILM 0.01MF 5% 50V
C207	1-130-467-00	MYLAR 470PF 5% 50V
C208	1-124-187-11	ELECT 22MF 20% 50V
C209	1-123-875-91	ELECT 10MF 20% 50V
C210	1-124-282-00	ELECT 22MF 20% 25V
C211	1-162-290-31	CERAMIC 470PF 10% 50V
C301	1-124-898-11	ELECT 4700MF 20% 16V
C302	1-124-898-11	ELECT 4700MF 20% 16V
C303	1-124-791-11	ELECT 1MF 20% 50V
C304	1-124-927-11	ELECT 4.7MF 20% 50V
C305	1-124-998-41	ELECT 1000MF 20% 10V
C306	1-124-998-41	ELECT 1000MF 20% 10V
C307	1-124-122-11	ELECT 100MF 20% 50V
C308	1-124-572-11	ELECT 100MF 20% 63V

ELECTRICAL PARTS

Ref.No.	Part No.	Description
C309	1-124-478-11	ELECT 100MF 20% 25V
C310	1-161-494-00	CERAMIC 0.022MF 25V
C311	1-123-875-91	ELECT 10MF 20% 50V
C312	1-123-321-00	ELECT 220MF 20% 16V
C313	1-124-791-11	ELECT 1MF 20% 50V
C314	1-124-468-11	ELECT 100MF 20% 6.3V
C316	1-123-875-91	ELECT 10MF 20% 50V
C317	1-161-494-00	CERAMIC 0.022MF 25V
C351	1-125-367-11	SUPER CONDENSOR 0.1F 5.5V
C501	1-124-468-11	ELECT 100MF 20% 6.3V
C502	1-162-294-31	CERAMIC 0.001MF 10% 50V
C503	1-130-475-00	MYLAR 0.0022MF 5% 50V
C504	1-162-198-31	CERAMIC 8.2PF 10% 50V
C505	1-124-468-11	ELECT 100MF 20% 6.3V
C506	1-136-159-00	FILM 0.033MF 5% 50V
C507	1-124-468-11	ELECT 100MF 20% 6.3V
C508	1-136-159-00	FILM 0.033MF 5% 50V
C509	1-136-153-00	FILM 0.01MF 5% 50V
C510	1-124-468-11	ELECT 100MF 20% 6.3V
C511	1-130-475-00	MYLAR 0.0022MF 5% 50V
C512	1-136-165-00	FILM 0.1MF 5% 50V
C513	1-136-161-00	FILM 0.047MF 5% 50V
C514	1-124-905-11	ELECT 3.3MF 20% 50V
C515	1-136-165-00	FILM 0.1MF 5% 50V
C518	1-123-875-91	ELECT 10MF 20% 50V
C519	1-136-169-00	FILM 0.22MF 5% 50V
C521	1-124-927-11	ELECT 4.7MF 20% 50V
C522	1-110-203-00	MYLAR 0.0047MF 5% 50V
C523	1-124-468-11	ELECT 100MF 20% 6.3V
C524	1-162-294-31	CERAMIC 0.001MF 10% 50V
C525	1-124-902-00	ELECT 0.47MF 20% 50V
C526	1-136-159-00	FILM 0.033MF 5% 50V
C527	1-124-468-11	ELECT 100MF 20% 6.3V
C528	1-124-468-11	ELECT 100MF 20% 6.3V
C529	1-124-902-00	ELECT 0.47MF 20% 50V
C530	1-136-153-00	FILM 0.01MF 5% 50V
C531	1-124-791-11	ELECT 1MF 20% 50V
C533	1-124-468-11	ELECT 100MF 20% 6.3V
C534	1-162-207-31	CERAMIC 22PF 5% 50V
C535	1-162-207-31	CERAMIC 22PF 5% 50V
C537	1-124-468-11	ELECT 100MF 20% 6.3V
C539	1-124-791-11	ELECT 1MF 20% 50V
C550	1-162-294-31	CERAMIC 0.001MF 10% 50V
C551	1-124-445-00	ELECT 100MF 20% 16V
C552	1-124-445-00	ELECT 100MF 20% 16V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C553	1-124-791-11	ELECT	1MF	20%	50V
C554	1-161-494-00	CERAMIC	0.022MF		25V
C555	1-162-294-31	CERAMIC	0.001MF	10%	50V
C556	1-162-294-31	CERAMIC	0.001MF	10%	50V
C557	1-162-294-31	CERAMIC	0.001MF	10%	50V
C559	1-161-494-00	CERAMIC	0.022MF	30%	25V
C560	1-124-908-11	ELECT	22MF	20%	25V
C561	1-123-875-91	ELECT	10MF	20%	50V
C562	1-124-927-11	ELECT	4.7MF	20%	50V
C563	1-161-494-00	CERAMIC	0.022MF	30%	25V
C564	1-161-494-00	CERAMIC	0.022MF		25V
C565	1-162-282-31	CERAMIC	100PF	10%	50V
C566	1-136-165-00	FILM	0.1MF	5%	50V
C567	1-161-494-00	CERAMIC	0.022MF		25V
C568	1-161-377-00	CERAMIC	0.0047MF	30%	16V
C569	1-161-494-00	CERAMIC	0.022MF		25V
C571	1-161-494-00	CERAMIC	0.022MF		25V
C574	1-124-270-11	CAP, ELECT (NONPOLAR)	0.47MF		
C701	1-162-294-31	CERAMIC	0.001MF	10%	50V
C702	1-161-494-00	CERAMIC	0.022MF		25V
C703	1-161-494-00	CERAMIC	0.022MF		25V
C704	1-161-494-00	CERAMIC	0.022MF		25V
C901	1-124-927-11	ELECT	4.7MF	20%	50V
C1001	1-136-165-00	FILM	0.1MF	5%	50V
C1002	1-124-927-11	ELECT	4.7MF	20%	50V
C1003	1-124-791-11	ELECT	1MF	20%	50V
C1004	1-136-165-00	FILM	0.1MF	5%	50V
C1005	1-124-927-11	ELECT	4.7MF	20%	50V
C1006	1-123-332-00	ELECT	47MF	20%	16V
C1007	1-124-791-11	ELECT	1MF	20%	50V
C1008	1-136-165-00	FILM	0.1MF	5%	50V
C1009	1-124-908-11	ELECT	22MF	20%	25V
C1010	1-124-791-11	ELECT	1MF	20%	50V
C1011	1-124-927-11	ELECT	4.7MF	20%	50V
CN301	*1-564-508-11	PLUG, CONNECTOR 5P			
CN302	*1-564-339-51	PIN, CONNECTOR 5P			
CN303	*1-564-340-51	PIN, CONNECTOR 6P			
CN304	*1-564-506-11	PLUG, CONNECTOR 3P			
CN501	*1-506-503-11	PIN, CONNECTOR 9P			
CN503	*1-564-509-11	PLUG, CONNECTOR 6P			
CN504	*1-564-510-11	PLUG, CONNECTOR 7P			
CN505	*1-564-507-11	PLUG, CONNECTOR 4P			
CN506	*1-564-339-41	PIN, CONNECTOR 5P			
CN507	*1-564-339-21	PIN, CONNECTOR 5P			
CN508	*1-564-338-21	PIN, CONNECTOR 4P			
CN509	*1-564-337-21	PIN, CONNECTOR 3P			
CN510	*1-564-720-31	PIN, CONNECTOR (SMALL TYPE) 4P			
CN511	*1-564-724-11	PIN, CONNECTOR (SMALL TYPE) 8P			
CN512	*1-564-338-41	PIN, CONNECTOR 4P			
CN513	*1-564-720-11	PIN, CONNECTOR (SMALL TYPE) 4P			
CN514	*1-564-338-31	PIN, CONNECTOR 4P			
CN515	*1-564-509-11	PLUG, CONNECTOR 6P			
CN516	*1-564-340-21	PIN, CONNECTOR 6P			
CN519	*1-564-338-51	PIN, CONNECTOR 4P			
CN520	*1-564-338-00	PIN, CONNECTOR 4P			
CN521	*1-564-336-21	PIN, CONNECTOR 2P			
CN522	*1-564-336-61	PIN, CONNECTOR 2P			
CN524	*1-564-336-00	PIN, CONNECTOR 2P			
CN525	*1-564-720-21	PIN, CONNECTOR (SMALL TYPE) 4P			

ELECTRICAL PARTS

Ref.No.	Part No.	Description
CN701	1-564-980-11	PIN, CONNECTOR 4P (CONTROL S IN)
CN702	1-564-980-11	PIN, CONNECTOR 4P (CONTROL S OUT)
CN704	*1-564-337-00	PIN, CONNECTOR 3P
CN705	*1-564-337-21	PIN, CONNECTOR 3P
▲ CNJ301.1-526-882-00		(US)...OUTLET, AC (AC OUTLET)
CNP1 ▲.1-551-472-00		(E).....CORD, POWER
CNP1 ▲.1-551-478-00		(US).....CORD, POWER
CNP1 ▲.1-551-884-00		(UK).....CORD, POWER
CNP1 ▲.1-555-795-00		(AEP).....CORD, POWER, EULO PLUG
D301	8-719-200-77	DIODE 10E2N
D302	8-719-200-77	DIODE 10E2N
D303	8-719-200-77	DIODE 10E2N
D304	8-719-200-77	DIODE 10E2N
D305	8-719-200-77	DIODE 10E2N
D306	8-719-200-77	DIODE 10E2N
D307	8-719-200-77	DIODE 10E2N
D308	8-719-933-36	ZENER DIODE HZS6B1L
D309	8-719-940-76	DIODE 1SS132
D310	8-719-200-77	DIODE 10E2N
D311	8-719-940-76	DIODE 1SS132
D312	8-719-200-77	DIODE 10E2N
D313	8-719-200-77	DIODE 10E2N
D314	8-719-940-76	DIODE 1SS132
D315	8-719-933-36	ZENER DIODE HZS6B1L
D316	8-719-940-76	DIODE 1SS132
D317	8-719-940-76	DIODE 1SS132
D318	8-719-940-76	DIODE 1SS132
D319	8-719-940-76	DIODE 1SS132
D320	8-719-940-76	DIODE 1SS132
D321	8-719-940-76	DIODE 1SS132
D322	8-719-940-76	DIODE 1SS132
D701	8-719-907-98	LED GL-5PG22
D702	8-719-906-44	LED GL-5HY22
D703	8-719-906-44	LED GL-5HY22
D704	8-719-907-98	LED GL-5PG22
D705	8-719-945-54	LED VRPG5341K
D706	8-719-945-54	LED VRPG5341K
D707	8-719-945-54	LED VRPG5341K
D708	8-719-945-54	LED VRPG5341K
D709	8-719-945-54	LED VRPG5341K
D710	8-719-940-76	DIODE 1SS132
D711	8-719-940-76	DIODE 1SS132
D712	8-719-940-76	DIODE 1SS132
D713	8-719-940-76	DIODE 1SS132
D714	8-719-940-76	DIODE 1SS132
D715	8-719-940-76	DIODE 1SS132
D716	8-719-940-76	DIODE 1SS132
D717	8-719-940-76	DIODE 1SS132
D718	8-719-940-76	DIODE 1SS132
D719	8-719-940-76	DIODE 1SS132
D901	8-719-940-76	DIODE 1SS132
D902	8-719-940-76	DIODE 1SS132
D1001	8-719-940-76	DIODE 1SS132
D1002	8-719-940-76	DIODE 1SS132
D1003	8-719-940-76	DIODE 1SS132
D1004	8-719-940-76	DIODE 1SS132
D1005	8-719-940-76	DIODE 1SS132

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ELECTRICAL PARTS

Ref.No.	Part No.	Description
D1006	8-719-940-76	DIODE 1SS132
D1007	8-719-940-76	DIODE 1SS132
D1008	8-719-940-76	DIODE 1SS132
D1009	8-719-940-76	DIODE 1SS132
D1010	8-719-940-76	DIODE 1SS132
D1011	8-719-940-76	DIODE 1SS132
D1012	8-719-940-76	DIODE 1SS132
D1013	8-719-940-76	DIODE 1SS132
D1014	8-719-940-76	DIODE 1SS132
D1015	8-719-940-76	DIODE 1SS132
FL701	1-519-304-00	INDICATOR TUBE, FLUORESCENT
IC301	8-759-604-03	IC M5290P
IC302	8-759-604-00	IC M51565P
IC303	8-759-937-95	IC PCM56P-S
IC304	8-759-701-12	IC CXA4559P
IC501	8-752-322-05	IC CXD1135Q
IC502	8-752-031-61	IC CXA1082AQ
IC503	8-759-802-74	IC LC3516AML-15
IC504	8-752-030-93	IC CXA1081M
IC505	8-759-940-62	IC MSM6404A-18ORS
IC506	8-759-303-90	IC STA341M
IC507	8-759-202-01	IC TA7256P
IC508	8-759-803-41	IC LC4969
IC509	8-759-601-45	IC M4069UBP
IC701	8-759-604-74	IC M50941-411SP
IC702	8-759-803-33	IC LC6528C-3175
IC703	8-741-138-70	IC BX-1387
IC1001	8-759-240-75	IC TC4075BP
IC1002	8-759-240-69	IC TC4069UBP
IC1003	8-759-133-90	IC UPC339C
IC1004	8-759-240-12	IC TC4012BP
IC1005	8-759-240-24	IC TC4024BP
IC1006	8-759-240-11	IC TC4011BP
IC1007	8-759-240-81	IC TC4081BP
IC1008	8-759-240-69	IC TC4069UBP
IC1009	8-759-240-11	IC TC4011BP
J301	1-563-485-21	JACK, LARGE TYPE (HEADPHONES)
J302	*1-562-999-21	JACK, PIN 2P (LINE OUT)
L501	1-408-117-00	MICRO INDUCTOR 10UH
L701	1-407-173-XX	MICRO INDUCTOR 220UH
LF301	1-421-915-11	COIL, LINE FILTER
M252	X-4917-504-1	MOTOR ASSY (SLED)
M501	X-4919-419-1	MOTOR ASSY (LOADING)
M502	X-4919-420-1	MOTOR ASSY (TURNTABLE)
PM301	1-454-438-11	SOLENOID, PLUNGER
PS301A	1-532-637-00	LINK, IC
PS302A	1-532-637-00	LINK, IC
PS303A	1-532-605-00	LINK, IC
PS304A	1-532-605-00	LINK, IC
PS305A	1-532-637-00	LINK, IC
PS306A	1-532-686-00	LINK, IC
PS307A	1-532-686-00	LINK, IC
Q101	8-729-107-77	TRANSISTOR 2SC3623-L
Q102	8-729-107-77	TRANSISTOR 2SC3623-L
Q201	8-729-107-77	TRANSISTOR 2SC3623-L
Q202	8-729-107-77	TRANSISTOR 2SC3623-L
Q301	8-729-111-67	TRANSISTOR 2SB1094-L
Q302	8-729-107-25	TRANSISTOR 2SD1585-K

ELECTRICAL PARTS

Ref.No.	Part No.	Description
Q303	8-729-173-13	TRANSISTOR 2SB731
Q304	8-729-117-54	TRANSISTOR 2SA1175
Q305	8-729-806-28	TRANSISTOR 2SC3402
Q306	8-729-806-16	TRANSISTOR 2SA1346
Q307	8-729-180-93	TRANSISTOR 2SB1013
Q501	8-729-801-83	TRANSISTOR 2SB1013
Q502	8-729-806-38	TRANSISTOR 2SC3399
Q503	8-729-806-38	TRANSISTOR 2SC3399
Q508	8-729-801-93	TRANSISTOR 2SD1387
Q510	8-729-806-16	TRANSISTOR 2SA1346
Q511	8-729-801-83	TRANSISTOR 2SB1013
Q513	8-729-177-43	TRANSISTOR 2SD774
Q514	8-729-801-93	TRANSISTOR 2SD1387
Q515	8-729-117-54	TRANSISTOR 2SA1175
Q516	8-729-117-54	TRANSISTOR 2SA1175
Q517	8-729-806-28	TRANSISTOR 2SC3402
Q518	8-719-906-43	TRANSISTOR GP-1S03
Q519	8-719-939-88	TRANSISTOR RPR-359F-B
Q520	8-719-939-88	TRANSISTOR RPR-359F-B
Q521	8-729-806-28	TRANSISTOR 2SC3402
Q701	9-986-159-01	TRANSISTOR 2SA1348
Q702	9-986-159-01	TRANSISTOR 2SA1348
Q703	8-729-806-34	TRANSISTOR 2SC3400
Q704	8-729-806-34	TRANSISTOR 2SC3400
Q705	8-729-806-34	TRANSISTOR 2SC3400
Q706	8-729-806-34	TRANSISTOR 2SC3400
Q707	8-729-806-34	TRANSISTOR 2SC3400
Q708	8-729-806-34	TRANSISTOR 2SC3400
Q709	9-986-159-01	TRANSISTOR 2SA1348
Q901	8-729-806-28	TRANSISTOR 2SC3402
Q1001	8-729-806-28	TRANSISTOR 2SC3402
Q1002	8-729-806-28	TRANSISTOR 2SC3402
Q1003	8-729-900-65	TRANSISTOR DTE144ES
Q1004	8-729-806-28	TRANSISTOR 2SC3402
Q1005	8-729-900-61	TRANSISTOR DTA114ES
R101	1-215-442-00	CARBON 7.5K 5% 1/6W
R102	1-247-717-11	CARBON 2.2K 5% 1/4W
R103	1-247-717-11	CARBON 2.2K 5% 1/4W
R104	1-247-723-11	CARBON 6.8K 5% 1/4W
R105	1-247-152-00	CARBON 7.5K 5% 1/4W
R106	1-249-933-11	CARBON 2.7K 1% 1/4W
R107	1-249-934-11	CARBON 3K 1% 1/4W
R108	1-249-933-11	CARBON 2.7K 1% 1/4W
R109	1-249-441-11	CARBON 100K 5% 1/6W
R110	1-247-714-11	CARBON 1.2K 5% 1/4W
R111	1-247-714-11	CARBON 1.2K 5% 1/4W
R112	1-249-429-11	CARBON 10K 5% 1/6W
R115	1-249-425-11	CARBON 4.7K 5% 1/6W
R116	1-249-429-11	CARBON 10K 5% 1/6W
R117	1-247-849-00	CARBON 5.6K 5% 1/6W
R118	1-249-433-11	CARBON 22K 5% 1/6W
R119	1-247-704-11	CARBON 220 5% 1/4W
R120	1-249-429-11	CARBON 10K 5% 1/6W
R121	1-249-429-11	CARBON 10K 5% 1/6W
R201	1-215-442-00	CARBON 7.5K 5% 1/6W
R202	1-247-717-11	CARBON 2.2K 5% 1/4W

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ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R203	1-247-717-11	CARBON	2.2K	5%	1/4W
R204	1-247-723-11	CARBON	6.8K	5%	1/4W
R205	1-247-152-00	CARBON	7.5K	5%	1/4W
R206	1-249-933-11	CARBON	2.7K	1%	1/4W
R207	1-249-934-11	CARBON	3K	1%	1/4W
R208	1-249-933-11	CARBON	2.7K	1%	1/4W
R209	1-249-441-11	CARBON	100K	5%	1/6W
R210	1-247-714-11	CARBON	1.2K	5%	1/4W
R211	1-247-714-11	CARBON	1.2K	5%	1/4W
R212	1-249-429-11	CARBON	10K	5%	1/6W
R215	1-249-425-11	CARBON	4.7K	5%	1/6W
R216	1-249-429-11	CARBON	10K	5%	1/6W
R217	1-247-849-00	CARBON	5.6K	5%	1/6W
R218	1-249-433-11	CARBON	22K	5%	1/6W
R219	1-247-704-11	CARBON	220	5%	1/4W
R220	1-249-429-11	CARBON	10K	5%	1/6W
R221	1-249-429-11	CARBON	10K	5%	1/6W
R301	1-249-425-11	CARBON	4.7K	5%	1/6W
R302	1-249-425-11	CARBON	4.7K	5%	1/6W
R303	1-249-425-11	CARBON	4.7K	5%	1/6W
R304	1-249-415-11	CARBON	680	5%	1/6W
R305	1-249-422-11	CARBON	2.7K	5%	1/6W
R306	1-249-433-11	CARBON	22K	5%	1/6W
R307	1-249-441-11	CARBON	100K	5%	1/6W
R308	1-247-752-11	CARBON	1K	5%	1/2W
R309	1-247-704-11	CARBON	220	5%	1/4W
R310	1-247-739-11	CARBON	100	5%	1/2W
R311	1-249-429-11	CARBON	10K	5%	1/6W
R501	1-214-092-00	METAL	22	1%	1/4W
R502	1-249-428-11	CARBON	8.2K	5%	1/6W
R503	1-215-450-00	CARBON	16K	5%	1/6W
R504	1-249-421-11	CARBON	2.2K	5%	1/6W
R505	1-249-433-11	CARBON	22K	5%	1/6W
R506	1-249-405-11	CARBON	100	5%	1/6W
R507	1-249-428-11	CARBON	8.2K	5%	1/6W
R508	1-249-428-11	CARBON	8.2K	5%	1/6W
R509	1-215-437-00	METAL	4.7K	1%	1/6W
R510	1-215-437-00	METAL	4.7K	1%	1/6W
R511	1-249-437-11	CARBON	47K	5%	1/6W
R512	1-249-437-11	CARBON	47K	5%	1/6W
R513	1-249-447-11	CARBON	1	5%	1/4W
R514	1-249-441-11	CARBON	100K	5%	1/6W
R515	1-249-385-11	CARBON	2.2	5%	1/6W
R516	1-247-883-00	CARBON	150K	5%	1/6W
R517	1-249-385-11	CARBON	2.2	5%	1/6W
R518	1-249-441-11	CARBON	100K	5%	1/6W
R519	1-215-479-00	CARBON	270K	5%	1/6W
R520	1-249-435-11	CARBON	33K	5%	1/6W
R521	1-249-385-11	CARBON	2.2	5%	1/6W
R522	1-249-424-11	CARBON	3.9K	5%	1/6W
R524	1-215-486-00	CARBON	510K	5%	1/6W
R525	1-249-441-11	CARBON	100K	5%	1/6W
R526	1-215-452-00	CARBON	20K	5%	1/6W
R527	1-215-493-00	CARBON	1M	5%	1/6W
R528	1-215-434-00	METAL	3.6K	1%	1/6W
R529	1-247-881-00	CARBON	120K	5%	1/6W
R530	1-249-429-11	CARBON	10K	5%	1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R531	1-249-433-11	CARBON	22K	5%	1/6W
R532	1-249-429-11	CARBON	10K	5%	1/6W
R533	1-249-441-11	CARBON	100K	5%	1/6W
R534	1-249-429-11	CARBON	10K	5%	1/6W
R535	1-249-441-11	CARBON	100K	5%	1/6W
R549	1-249-422-11	CARBON	2.7K	5%	1/6W
R550	1-249-417-11	CARBON	1K	5%	1/6W
R551	1-249-425-11	CARBON	4.7K	5%	1/6W
R552	1-249-425-11	CARBON	4.7K	5%	1/6W
R553	1-249-433-11	CARBON	22K	5%	1/6W
R554	1-249-433-11	CARBON	22K	5%	1/6W
R555	1-249-447-11	CARBON	1	5%	1/4W
R556	1-249-434-11	CARBON	27K	5%	1/6W
R557	1-249-433-11	CARBON	22K	5%	1/6W
R559	1-249-425-11	CARBON	4.7K	5%	1/6W
R560	1-249-424-11	CARBON	3.9K	5%	1/6W
R561	1-247-849-00	CARBON	5.6K	5%	1/6W
R562	1-249-441-11	CARBON	100K	5%	1/6W
R563	1-246-457-00	CARBON	220	5%	1/4W
R564	1-246-455-00	CARBON	180	5%	1/4W
R565	1-249-433-11	CARBON	22K	5%	1/6W
R566	1-249-433-11	CARBON	22K	5%	1/6W
R567	1-249-423-11	CARBON	3.3K	5%	1/6W
R568	1-249-433-11	CARBON	22K	5%	1/6W
R570	1-215-469-00	METAL	100K	1%	1/6W
R571	1-215-469-00	METAL	100K	1%	1/6W
R572	1-215-486-00	CARBON	510K	5%	1/6W
R573	1-249-405-11	CARBON	100	5%	1/6W
R574	1-249-421-11	CARBON	2.2K	5%	1/6W
R575	1-249-425-11	CARBON	4.7K	5%	1/6W
R576	1-249-419-11	CARBON	1.5K	5%	1/6W
R577	1-249-433-11	CARBON	22K	5%	1/6W
R578	1-247-849-00	CARBON	5.6K	5%	1/6W
R579	1-249-419-11	CARBON	1.5K	5%	1/6W
R580	1-247-839-00	CARBON	2.2K	5%	1/6W
R581	1-249-417-11	CARBON	1K	5%	1/6W
R582	1-249-417-11	CARBON	1K	5%	1/6W
R584	1-215-396-00	CARBON	91	5%	1/6W
R585	1-249-433-11	CARBON	22K	5%	1/6W
R586	1-249-433-11	CARBON	22K	5%	1/6W
R587	1-249-433-11	CARBON	22K	5%	1/6W
R588	1-249-433-11	CARBON	22K	5%	1/6W
R589	1-215-881-11	METAL OXIDE	15	5%	2W F
R590	1-249-441-11	CARBON	100K	5%	1/6W
R591	1-249-417-11	CARBON	1K	5%	1/6W
R592	1-249-437-11	CARBON	47K	5%	1/6W
R593	1-249-437-11	CARBON	47K	5%	1/6W
R594	1-249-437-11	CARBON	47K	5%	1/6W
R595	1-249-437-11	CARBON	47K	5%	1/6W
R596	1-249-393-11	CARBON	10	5%	1/6W
R597	1-249-417-11	CARBON	1K	5%	1/6W
R598	1-249-417-11	CARBON	1K	5%	1/6W
R601	1-249-405-11	CARBON	100	5%	1/6W
R602	1-249-417-11	CARBON	1K	5%	1/6W
R701	1-249-404-00	CARBON	82	5%	1/6W
R702	1-249-409-11	CARBON	220	5%	1/6W
R703	1-249-409-11	CARBON	220	5%	1/6W

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

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R704	1-249-404-00	CARBON	82	5%	1/6W
R710	1-215-493-00	CARBON	1M	5%	1/6W
R711	1-247-849-00	CARBON	5.6K	5%	1/6W
R712	1-249-419-11	CARBON	1.5K	5%	1/6W
R713	1-249-421-11	CARBON	2.2K	5%	1/6W
R714	1-249-425-11	CARBON	4.7K	5%	1/6W
R715	1-249-431-11	CARBON	15K	5%	1/6W
R716	1-247-849-00	CARBON	5.6K	5%	1/6W
R717	1-249-419-11	CARBON	1.5K	5%	1/6W
R718	1-249-421-11	CARBON	2.2K	5%	1/6W
R719	1-249-425-11	CARBON	4.7K	5%	1/6W
R720	1-249-431-11	CARBON	15K	5%	1/6W
R721	1-247-849-00	CARBON	5.6K	5%	1/6W
R722	1-249-419-11	CARBON	1.5K	5%	1/6W
R723	1-249-421-11	CARBON	2.2K	5%	1/6W
R724	1-249-425-11	CARBON	4.7K	5%	1/6W
R725	1-249-431-11	CARBON	15K	5%	1/6W
R726	1-247-849-00	CARBON	5.6K	5%	1/6W
R727	1-249-419-11	CARBON	1.5K	5%	1/6W
R728	1-249-421-11	CARBON	2.2K	5%	1/6W
R729	1-249-417-11	CARBON	1K	5%	1/6W
R730	1-215-452-00	CARBON	20K	5%	1/6W
R731	1-249-429-11	CARBON	10K	5%	1/6W
R732	1-249-417-11	CARBON	1K	5%	1/6W
R733	1-215-452-00	CARBON	20K	5%	1/6W
R734	1-249-429-11	CARBON	10K	5%	1/6W
R735	1-249-417-11	CARBON	1K	5%	1/6W
R736	1-215-452-00	CARBON	20K	5%	1/6W
R739	1-249-433-11	CARBON	22K	5%	1/6W
R740	1-249-433-11	CARBON	22K	5%	1/6W
R741	1-249-393-11	CARBON	10	5%	1/6W
R742	1-249-429-11	CARBON	10K	5%	1/6W
R743	1-249-417-11	CARBON	1K	5%	1/6W
R744	1-215-452-00	CARBON	20K	5%	1/6W
R745	1-215-452-00	CARBON	20K	5%	1/6W
R746	1-249-403-11	CARBON	68	5%	1/6W
R747	1-249-433-11	CARBON	22K	5%	1/6W
R748	1-249-433-11	CARBON	22K	5%	1/6W
R749	1-249-433-11	CARBON	22K	5%	1/6W
R750	1-215-493-00	CARBON	1M	5%	1/6W
R1001	1-249-441-11	CARBON	100K	5%	1/6W
R1002	1-249-441-11	CARBON	100K	5%	1/6W
R1003	1-249-429-11	CARBON	10K	5%	1/6W
R1004	1-249-429-11	CARBON	10K	5%	1/6W
R1005	1-249-429-11	CARBON	10K	5%	1/6W
R1006	1-249-433-11	CARBON	22K	5%	1/6W
R1007	1-249-441-11	CARBON	100K	5%	1/6W
R1008	1-249-413-11	CARBON	470	5%	1/6W
R1009	1-249-417-11	CARBON	1K	5%	1/6W
R1010	1-249-419-11	CARBON	1.5K	5%	1/6W
R1011	1-249-417-11	CARBON	1K	5%	1/6W
R1012	1-249-417-11	CARBON	1K	5%	1/6W
R1013	1-249-429-11	CARBON	10K	5%	1/6W
R1014	1-249-441-11	CARBON	100K	5%	1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R1015	1-247-887-00	CARBON	220K	5%	1/6W
R1016	1-249-429-11	CARBON	10K	5%	1/6W
R1017	1-249-441-11	CARBON	100K	5%	1/6W
R1018	1-247-887-00	CARBON	220K	5%	1/6W
R1019	1-249-441-11	CARBON	100K	5%	1/6W
R1020	1-249-441-11	CARBON	100K	5%	1/6W
R1021	1-249-417-11	CARBON	1K	5%	1/6W
R1022	1-249-441-11	CARBON	100K	5%	1/6W
R1023	1-249-417-11	CARBON	1K	5%	1/6W
RV301	1-230-997-21	RES. VAR, CARBON 20K/20K			
RV501	1-237-194-11	RES. ADJ, CARBON 20K			
RV502	1-228-993-00	RES. ADJ, METAL GLAZE 4.7K			
RV503	1-237-194-11	RES. ADJ, CARBON 20K			
RV504	1-237-194-11	RES. ADJ, CARBON 20K			
RV505	1-228-990-00	RES. ADJ, METAL GLAZE 1K			
RV506	1-237-195-11	RES. ADJ, CARBON 50K			
RV507	1-237-195-11	RES. ADJ, CARBON 50K			
S1	1-571-026-11	SWITCH (ARM MOVED)			
S002	1-554-075-00	SWITCH, SLIDE (TIMER)			
S301	1-570-103-21	SWITCH, PUSH (1 KEY)(POWER)			
S701	1-570-876-11	SWITCH, KEY BOARD (1)			
S702	1-570-876-11	SWITCH, KEY BOARD (2)			
S703	1-570-876-11	SWITCH, KEY BOARD (3)			
S704	1-570-876-11	SWITCH, KEY BOARD (4)			
S705	1-570-876-11	SWITCH, KEY BOARD (5)			
S706	1-570-876-11	SWITCH, KEY BOARD (■)			
S707	1-570-876-11	SWITCH, KEY BOARD (■■)			
S708	1-570-876-11	SWITCH, KEY BOARD (■■■)			
S709	1-570-876-11	SWITCH, KEY BOARD (■■■■)			
S710	1-570-876-11	SWITCH, KEY BOARD (▷)			
S711	1-570-876-11	SWITCH, KEY BOARD (▷▷)			
S712	1-570-876-11	SWITCH, KEY BOARD (▷▷▷)			
S713	1-570-876-11	SWITCH, KEY BOARD (CHECK)			
S714	1-570-876-11	SWITCH, KEY BOARD (CLEAR)			
S715	1-570-876-11	SWITCH, KEY BOARD (PROGRAM)			
S716	1-570-876-11	SWITCH, KEY BOARD (SHUFFLE)			
S717	1-570-876-11	SWITCH, KEY BOARD (REPEAT)			
S718	1-570-876-11	SWITCH, KEY BOARD (TIME)			
S719	1-570-876-11	SWITCH, KEY BOARD (OPEN/CLOSE)			
S720	1-570-876-11	SWITCH, KEY BOARD (DISK SKIP)			
S721	1-571-027-11	SWITCH, PUSH (3 KEY)			

T301  1-448-842-11 (US).....TRANSFORMER, POWER
T301  1-448-843-11 (AEP,UK)....TRANSFORMER, POWER
T301  1-448-844-11 (E).....TRANSFORMER, POWER

TP1 *1-564-507-11 PLUG, CONNECTOR 4P

VS1  1-570-307-11 (E)...VOLTAGE, SELECTOR

X501 1-567-692-21 VIBRATOR, CRYSTAL (8.4672MHz)
X701 1-567-819-21 VIBRATOR, CERAMIC (4.00MHz)
X702 1-567-818-21 VIBRATOR, CERAMIC (3.58MHz)

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

ACCESSORY & PACKING MATERIAL

<u>Part No.</u>	<u>Description</u>
1-463-796-11	REMOTE COMMANDER (RM-D5)
1-558-787-11	(AEP,UK,E)...CORD, CONNECTION
3-701-630-00	(AEP,UK,E)...BAG, POLYETHYLENE
3-703-713-41	STICKER, SONY SYMBOL (10)
3-764-765-11	INSTRUCTION (TRANSPORT SCREW)
3-765-966-11	(AEP,UK,E)...MANUAL, INSTRUCTION
3-765-966-41	(AEP).....MANUAL, INSTRUCTION
*3-795-629-11	(AEP)...INSTRUCTION
4-914-822-01	SHEET, PROTECTION, MAIN
4-919-467-11	SHEET, THROW
4-919-470-11	(AEP,UK,E)...INDIVIDUAL CARTON
4-919-471-01	(AEP,UK,E)...CUSHION (LEFT)
4-919-472-01	(AEP,UK,E)...CUSHION (RIGHT)
4-919-481-01	PROTECTOR
*4-919-488-01	LABEL, CAUTION
X-4919-416-1	(AEP,UK,E)...HOLDER ASSY, CD BOOKLET

SECTION 8

TROUBLESHOOTING

TROUBLE	CAUSES	REMEDY
No audio from one or both channels	Incorrect operation of the amplifier	Operate correctly.
	Loose connection	Connect the cords firmly.
Play does not begin.	No disc in the disc compartment	Put disc(s) in the compartment.
	The button has been pressed.	Press the button again or press the ▶ button to release pause.
	No disc in the front position with the disc compartment open (SINGLE play)	Rotate the disc compartment so that the disc comes in front.
	Moisture condensation	Leave the player turned on for about an hour.
	The disc is set upside down.	Set the disc with the label side up.
	The disc is incorrectly set.	Set the disc correctly.
	The disc is extremely dirty.	Clean the disc.
Discs cannot be played continuously.	The SINGLE button is depressed.	Depress the MULTI button.
Play stops at each end of selections.	The AUTO PAUSE switch is depressed.	Depress the AUTO PAUSE switch again to release the auto pause function.
Play does not begin at time set by timer. (The units power is turned on.)	The AUTO PAUSE switch has been pressed.	Release auto pause before setting the timer.
Remote commander does not operate the unit.	The batteries are exhausted.	Replace both batteries.
	The remote commander is not pointed at the remote sensor.	Point the remote commander to the remote sensor.
	There is an obstacle between the remote commander and the unit.	Remove the obstacle.
Any operation is not possible.	The internal control program may not run correctly.	Turn OFF the power, and turn ON the power again.

Sony Corporation
Audio Group

CDP-C5M

SONY[®] SERVICE MANUAL

*US Model
AEP Model
UK Model
E Model*

SUPPLEMENT-1

File this supplement with the Service Manual.

Since PC board patterns in this model were changed several times, some parts have been added or changed of their values and also the suffix of IC701 has been changed to new one.

For the above reason the latest schematic and mounting diagrams are issued with this supplement.

1. Suffix of IC701

Countries	Serial number	Description
US	001-300 301-	M50941-412SP M50941-413SP
AEP	500, 001-502, 300 502, 301-	M50941-411SP M50941-413SP
UK	600, 001-600, 500 600, 501-	M50941-411SP M50941-413SP
E	001-	M50941-413SP

2. Changes of board suffix with serial numbers.

Countries	Serial number	Suffix
US	001-300 301-	-12 -13
AEP	500, 001-502, 300 502, 301-	-12 -13
UK	600, 001-600, 800 600, 801-	-12 -13
E	001-	-13

3. Parts existence list on RMS BOARD.

Description IC701	RMS board	C562	D319	R590
M50941-411SP	○	10MF 50V	1SS132	100K
M50941-412SP	○	10MF 50V	1SS132	100K
M50941-413SP	X	JW	X	X

4. Parts existence list on MAIN BOARD

Ref. No.	Part No.	Description	Suffix
C108, 208	1-124-187-11	NONPOLA 22MF 20% 50V	-12
C112, 212	1-162-290-11	(AEP).....CERAMIC 470PF 10% 50V	-14 to -15
C568	1-162-298-00	CERAMIC 0.0047MF	-12(conductor side)
C569	1-162-596-00	CERAMIC 0.022MF	-12(conductor side)
C570	1-110-199-00	FILM 0.0022MF	-13 to -15
C574	1-124-181-51	NONPOLA 0.47MF	-12
C710	1-124-499-11	ELECT 1MF 20% 50V	-14 to -15
L502	1-408-383-00	MICRO INDUCTOR 220UH	-13 to -15
L503	1-408-188-11	(EXCEPT E)...MICRO INDUCTOR 100MH	-14 to -15
Q521	8-729-806-28	TRANSISTOR 2SC3402	-13 to -15
Q522, 523, 524	8-729-116-02	TRANSISTOR DTC114ES	-13 to -15
Q525, 526	8-729-101-34	TRANSISTOR 2SC2785	-13 to -15
Q527	8-729-900-65	TRANSISTOR DTA114ES	-14
Q528	8-729-900-89	TRANSISTOR DTC144ES	-14
R525	1-249-429-11	CARBON 10K 5% 1/6W	-12
R558	1-249-433-11	CARBON 22K 5% 1/6W	-14 to -15
R600, 601	1-249-429-11	CARBON 10K 5% 1/6W	-14 to -15
R602	1-249-437-11	CARBON 47K 1/6W	-14 to -15
R603	1-249-405-11	CARBON 100 1/6W	-14 to -15
RV503, 504	1-228-995-00	RES, ADJ, CARBON 22K	-13 to -15
RV506, 507	1-228-996-00	RES, ADJ, CARBON 47K	-13 to -15

5. Parts existence list on JACK BOARD

Ref. No.	Part No.	Description	Suffix
C705	1-162-596-00	CERAMIC 0.022MF	-12(conductor side)
C711	1-162-596-00	CERAMIC 0.022MF	-14 to -15

6. Parts existence list on INDICATION BOARD

Ref. No.	Part No.	Description	Suffix
906	A-4655-053-A	(AEP)...MOUNTED PCB, INDICATION	-14 to -15

7. Parts existence list on POWER TRANSFORMER BOARD

Ref No.	Part No.	Description	Suffix
C001	1-161-741-00	(E).....CERAMIC 0.001MF 10% 400V	-14 to -15
C002-004	1-161-741-00	(AEP, UK, E)..CERAMIC 0.001MF 10% 400V	-14 to -15

8. Parts existence list on OTHERS BOARD

Ref. No.	Part No.	Description	Suffix
C574	1-124-181-51	NONPOLA 0.47MF	-12
C901			
C1001-1011			
D901, 902			
D1001-1015			
IC1001-1009			
L701			
Q901			
Q1001-1005			
R901, 903			
R1001-1027			

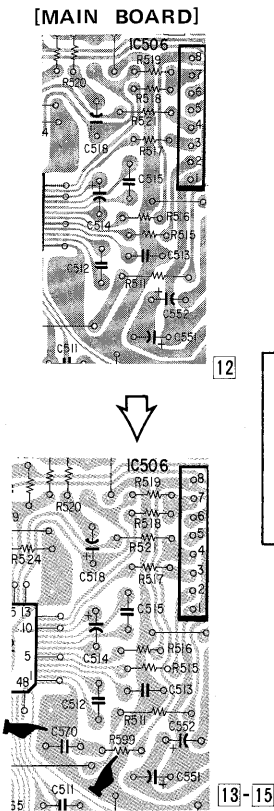
9. Parts existence list on RF BOARD

Ref. No.	Part No.	Description	Suffix
RV501	1-228-995-00	RES, ADJ, CARBON 22K	-14 to -15

10. Parts existence list on DISPLAY BOARD

Ref. No.	Part No.	Description	Suffix
IC703	8-741-138-70	(EXCEPT C5S)...IC BX1387	-13 to -15
Q701	8-729-205-02	TRANSISTOR 2SB810	-15
Q702	8-729-205-02	TRANSISTOR 2SB810	-15
Q708	8-729-900-36	(EXCEPT C5S)...DTC124ES	-15

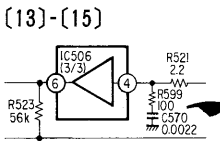
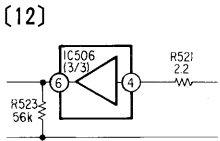
C570, R599



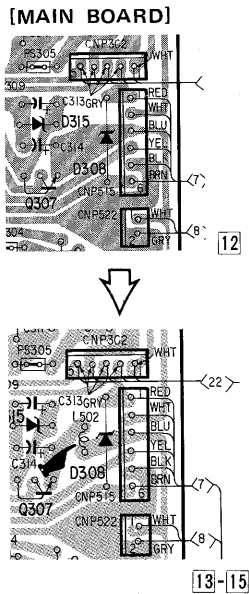
Board suffix -12

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Changed portions to the suffix -13 to -15



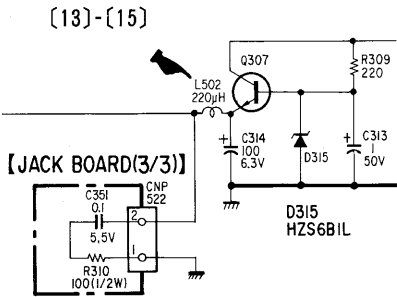
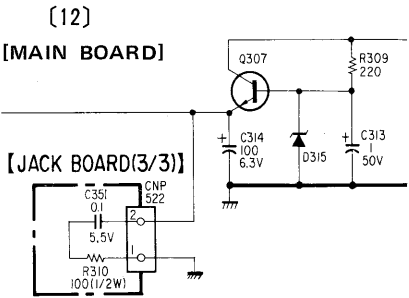
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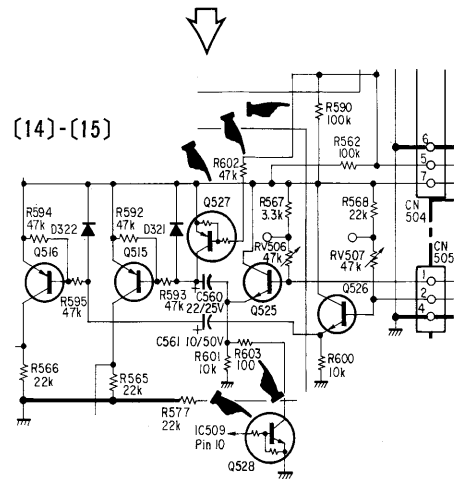
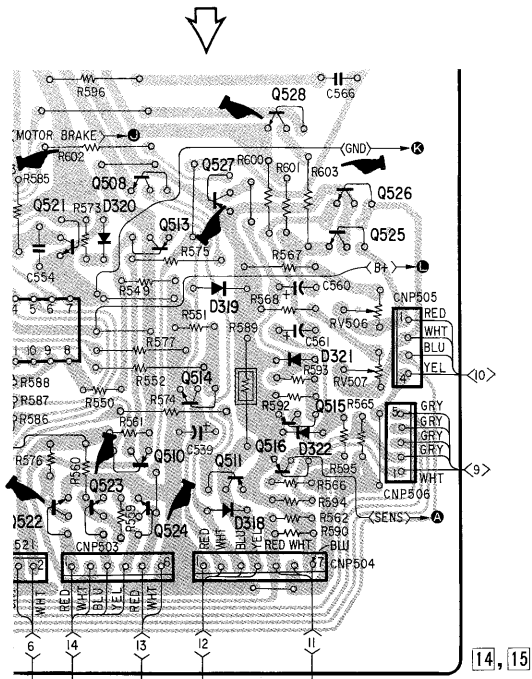


Board suffix -12

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Changed portions to the suffix -13 to -15





Note on 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 $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- $\square$: nonflammable resistor.
- $\rightarrow$: L-CH Signal path.
- $\rightarrow$: R-CH Signal path.
- $\rightarrow$: B+ bus.
- $\rightarrow$: B- bus.
- $\rightarrow$: 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
- 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
S1	ARM MOVED	UP
S002	TIMER	OFF
S10	LIMIT	ON
S301	POWER	OFF
S701	1	OFF
S702	2	OFF
S703	3	OFF
S704	4	OFF
S705	5	OFF
S706	■	OFF
S707	■	OFF
S708	■	OFF
S709	▶	OFF
S710	▶	OFF
S711	▶	OFF
S712	▶	OFF
S713	CHECK	OFF
S714	CLEAR	OFF
S715	PROGLAM	OFF
S716	SHUFFLE	OFF
S717	REPEAT	OFF
S718	TIME	OFF
S719	OPEN/CLOSE	CLOSE
S720	DISK PLAY MODE	OFF
S721	DISK SKIP	OFF
VS1	VOLTAGE SELECTOR (E model)	120V

Note: The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

PRINTED WIRING BOARDS
Board suffix -15

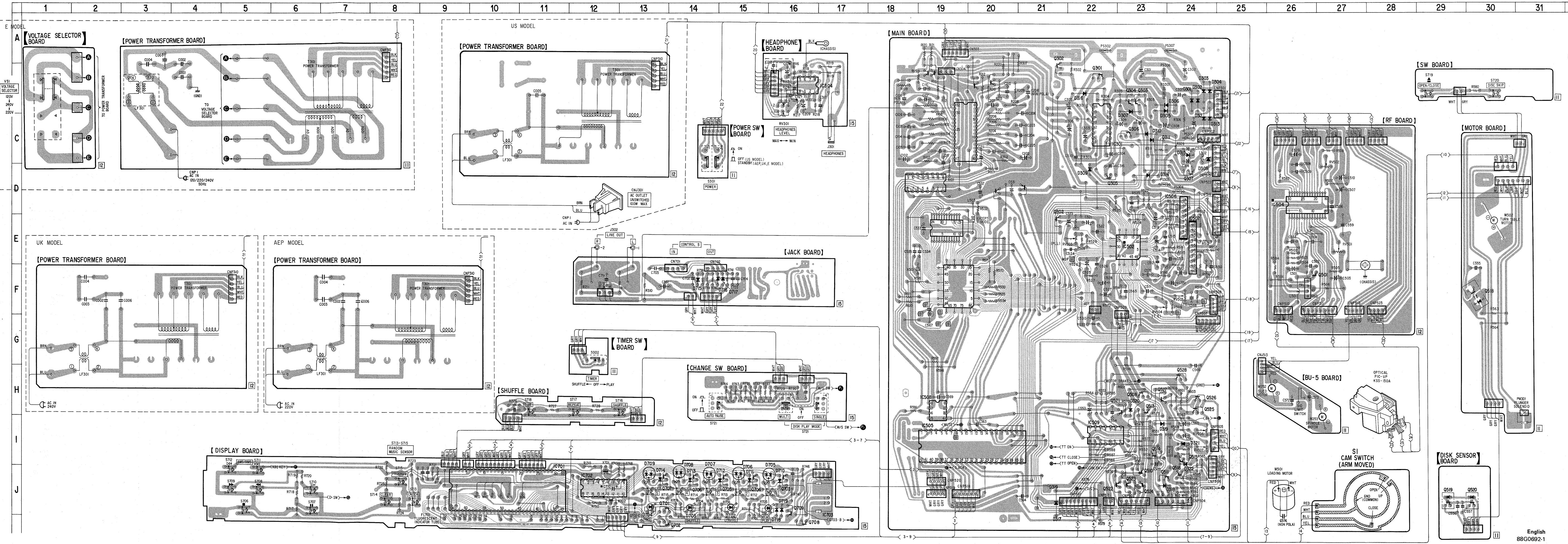
Semiconductor Locations

[MAIN BOARD]

Ref. No.	Location	Ref. No.	Location
D301	B-24	IC506	D-24
D302	B-24	IC507	E-24
D303	B-24	IC508	H-19
D304	B-24	IC509	I-22
D305	C-23	IC701	J-11
D306	B-24	IC702	J-12
D307	C-23	IC703	J-17
D308	D-24		
D309	D-22	Q101	A-19
D310	C-23	Q102	B-18
D311	C-23	Q201	B-20
D312	C-24	Q202	B-20
D313	C-24	Q301	B-22
D314	D-23	Q302	A-21
D315	C-24	Q303	B-23
D316	B-22	Q304	B-23
D317	K-21	Q305	D-22
D318	J-23	Q306	C-23
D319	J-21	Q307	D-24
D320	H-23	Q501	F-27
D321	I-24	Q502	D-21
D322	J-24	Q503	D-20
D701	J-15	Q508	H-23
D702	J-15	Q510	J-23
D703	J-14	Q511	J-23
D704	J-13	Q513	H-23
D705	J-15	Q514	I-23
D706	J-15	Q515	I-24
D707	J-14	Q516	J-24
D708	J-14	Q517	D-21
D709	I-13	Q518	F-30
D710	J-16	Q519	J-29
D711	J-15	Q520	J-30
D712	J-14	Q521	H-22
D713	J-14	Q522	J-22
D714	J-13	Q523	J-23
D715	F-14	Q524	J-23
D716	F-15	Q525	H-24
D717	F-15	Q526	H-24
D718	K-16	Q527	H-23
D719	J-16	Q528	H-24
IC301	C-22	Q702	K-14
IC302	B-19	Q703	J-16
IC303	D-18	Q704	J-15
IC304	B-17	Q705	J-15
IC501	F-19	Q706	J-14
IC502	E-23	Q707	J-13
IC503	E-19	Q708	K-16
IC504	D-26	Q709	J-16
IC505	I-19		

Note:

- $\circ$: parts extracted from the component side.
- $\blacksquare$: part mounted on the conductor side.



CDP-C5M

SONY[®] SERVICE MANUAL

US Model
AEP Model
UK Model
E Model

SUPPLEMENT-2

File this supplement with the service manual.

Removal of Main Board

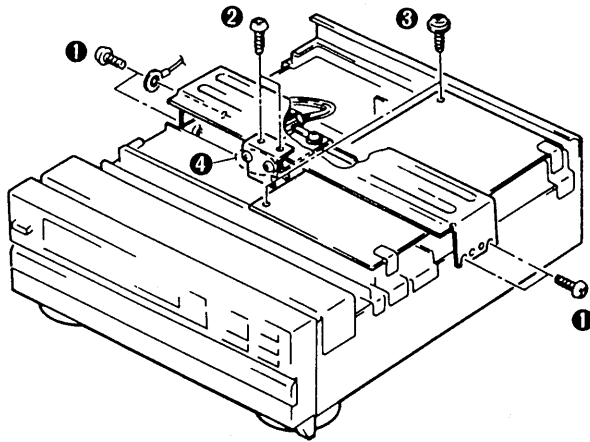


Fig. 1

1. Remove four screws which fasten both sides of reinforcement. (L, center part of chassis.) (Figure 1-①)

2. Remove two screws which fasten the reinforcement (SB) to the reinforcement. (Figure 1-②)

Note-1 Do not remove the two screws of figure 1-④ since the installation location might be shifted.

Note-2 When removing wire from wire clamp on the chucking block reinforcement, it is advised that the location on the wire where the wire clamp had been since the pull-around on the wire will be returned to the former position.

* This is the procedure to remove the reinforcement.

3. Remove two screws (Figure 1-③) which fasten the main board.

4. Remove the wire between the front panel and the main board out of the two purse locks.

5. Remove headphone lead (gray) which is connector-connected on the main board.

* This is the procedure to raise the PC board hinge on the right side of the main board as the fulcrum.

• This part removal enables to adjust RF board and check the optical block.

Removal of Front Panel ass'y

6. Remove three screws which fasten the front panel ass'y to the reinforcement.

7. Remove a screw which fastens the front panel ass'y to the bottom of the chassis ass'y.

8. Turn the power supply on and press the OPEN/CLOSE button to take the disc table out.

Note) See "When disc table does not open even if OPEN/CLOSE button is pressed" on page 6 of the service manual when the disc table does not come out in spite of turning on the power supply.

9. Remove the hexagonal-socket bolt (2m/m) which fastens the station cover ass'y to the disc table to remove the station cover ass'y.

10. Remove the three links that fasten the front panel ass'y to the bottom of the chassis ass'y and slide the front panel to the front side to be removed.

Removal of Disc Table

11. Remove four screws which fasten both sides of the reinforcement (front panel side) to remove the reinforcement.
12. Remove the four screws which fasten both sides of the station base and PC board bracket (front panel side).
13. Remove the main board from the PC board hinge which fastens the main board to PC board bracket (front panel side).
 - * This procedure removes the station base and PC board bracket, however, headphone leads do not have to be removed if they open out to the left side since each part has headphone lead (gray).
14. Push the disc table to the end.
15. Remove the screws with washer which fasten the disc table which can be seen from the two squared holes on the right side of the chassis ass'y to the guide bar retainer.
16. Remove the left side of the disc table out of the guide (rear) moving the disc table from left to right and raise it to remove the disc table.
 - * This is the procedure for taking apart. In case of changing the optical block, follow the steps up to 16.

PRECAUTION IN ASSEMBLING

Following the opposite procedure assembles the parts, however, there are some precautions.

Station Base

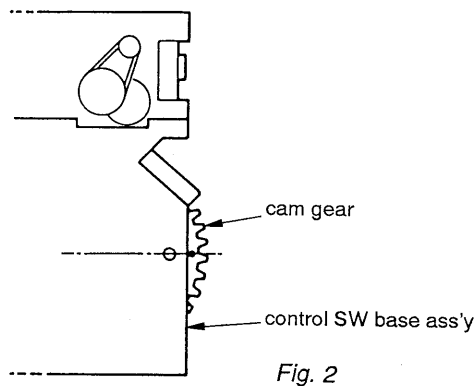


Fig. 2

1. Set the • mark of the cam gear and the hole on the control SW base ass'y as shown on figure 2.
2. Put down the guide bar retainer at the squared hole side on the chassis ass'y.
3. Mesh the left slide part of the station base (figure 3-①) with the guide (figure 3-②).
4. Put the boss of the station base into the ditch of “※” of the figure 3-④ (lock lever), seeing through from the squared hole on the chassis ass'y on figure 3-③.
5. After putting the boss of figure 4-② into the hole of figure 4-① to locate, screw the disc table to the guide bar retainer.

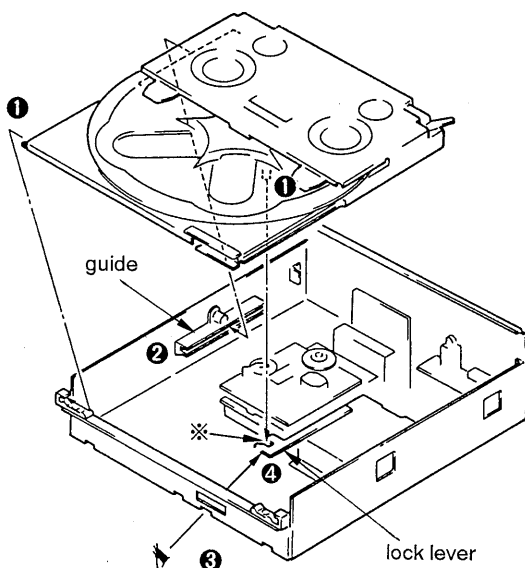


Fig. 3

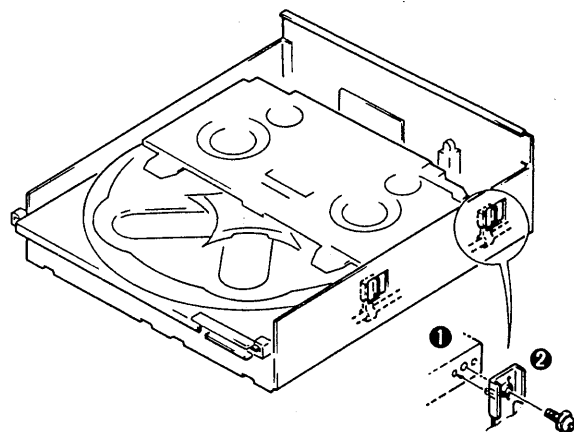


Fig. 4

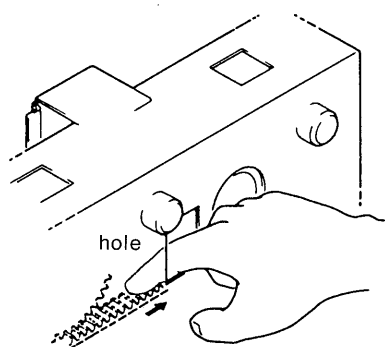
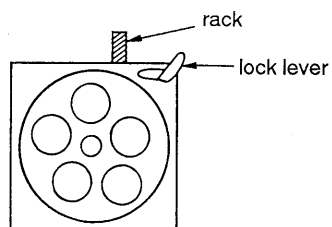


Fig. 5

6. The rack of the station base should be unlocked to be put behind.

Note) Since the disc table does not come out by setting the disc table with this procedure, remove the chassis cover attached to the bottom of chassis ass'y and stick a finger into the squared hole on figure 5 to move the rack behind and remove the mesh with the cam gear to re-mesh with it. Then the disc table will come out.

* Perform the same procedure when the gear meshes and the disc table does not come out.

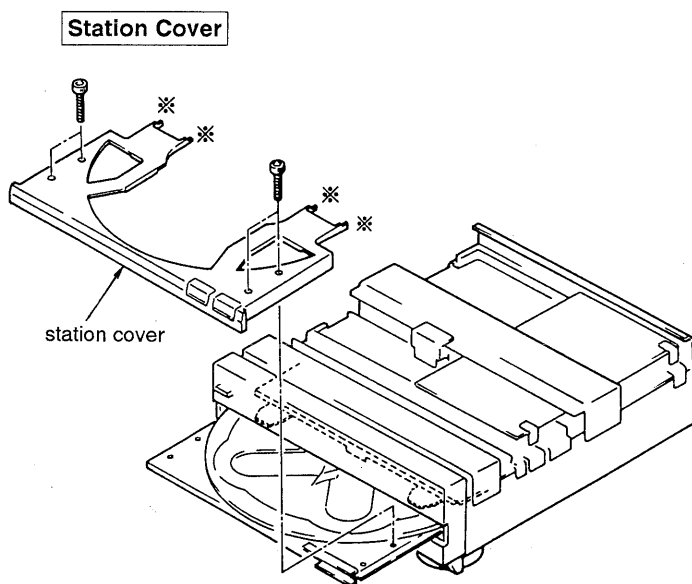


Fig. 6

1. Take out the disc table.
2. Put the station cover on the disc table.
3. Slide the station cover further to the end inserting the four * marks on figure 6 under the chucking bracket.
4. Hang the rear part of the cover front on the disc table as figure 7.
5. Screw four hexagonal-socket bolts (2m/m)

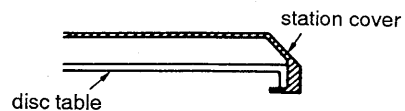


Fig. 7

Precaution in Setting Each of Four Reinforcements

Fasten the screws after pressing the reinforcement completely on the guide of the chassis ass'y or the stopper to set the location.

