

CDP-C35/C201/C205/C305

SERVICE MANUAL



US Model
CDP-C35/C201/C205/C305
Canadian Model
AEP Model
E Model
Australian Model
CDP-C305

Model Name Using Similar Mechanism	CDP-190/390
Optical Pick-up Block Type	BU-5BD3

SPECIFICATIONS

System	Compact disc digital audio system
Laser	Semiconductor laser ($\lambda=780$ nm) Emission duration: continuous
Laser output	Max. 44.6 μ W* * This output is the value measured at a distance of about 200 mm from the objective lens surface on the Optical Pick-up Block.
Frequency response	2 Hz – 20 kHz (+1.0 dB, -1.2 dB)
Signal to noise ratio	More than 93 dB
Dynamic range	More than 90 dB
Harmonic distortion	Less than 0.05% (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 PHONES (stereo phone jack) (CDP-C305/C205 only) Output level 0 – 10 mW (variable) (at 32 ohms)

General

Power requirements	US, Canadian model 120 V AC, 60 Hz AEP model 200V AC, 50/60Hz E model 110–120, 220–240V AC adjustable, 50/60Hz Australian model 240 V AC, 50/60 Hz
Power consumption	11 W
Dimensions	Approx. 430×110×385 mm (w/h/d) (17×4 ³ / ₈ ×15 ¹ / ₄ inches)
Weight	Approx. 4.9 kg (10 lbs 13 oz), net

Supplied accessories

Audio signal connecting cord
(phono plug × 2 ↔ phono plug × 2) (1)
Remote commander (1) (CDP-C305 only)
R6 (size AA) batteries (2) (CDP-C305 only)
Operating Manual (1)

Design and specifications subject to change without notice.

COMPACT DISC PLAYER
SONY®



Note on the Transit Key

The white transit key on the bottom exterior of the unit protects the optical system against shock during transportation. Before operating the CD player, be sure to remove the key by following the instructions on the label, and store it in a safe place.

When transporting the unit, replace the key in its original hole and lock it in place.

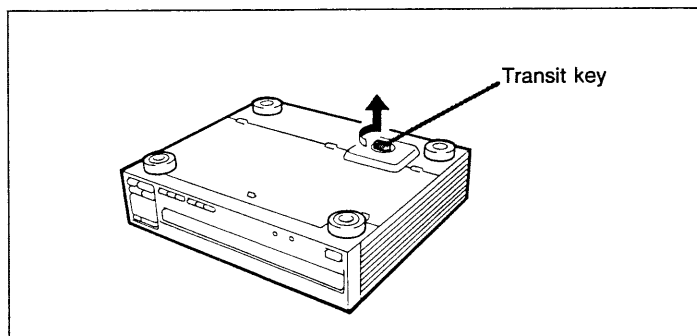


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SAFETY-RELATED COMPONENT WARNING!!

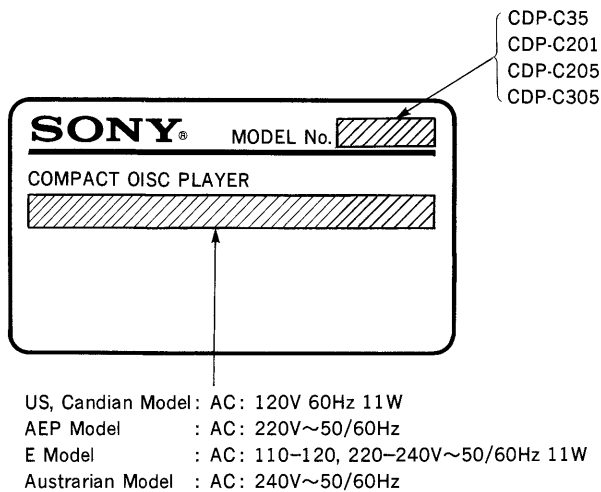
COMPONENTS IDENTIFIED BY MARK  OR DOTTED LINE WITH MARK  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE  SUR LES DIAGRAMMES SCHÉMATIQUES 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.

MODEL IDENTIFICATION

—Model Number Label—



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.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30cm away from the objective lens.

SAFETY CHECK-OUT

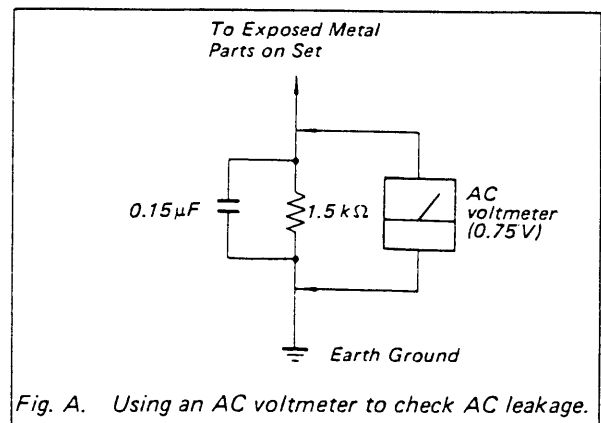
After correcting the original service problem, perform the following safety check before releasing the set to the customer:

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 2V AC range are suitable. (See Fig. A)



PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

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

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 Power: less than 44.6 μ W*

* This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.

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).

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.

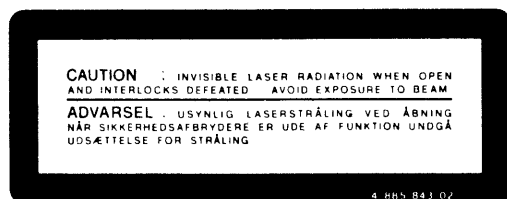
- Klassifikation: Klasse IIIb.

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

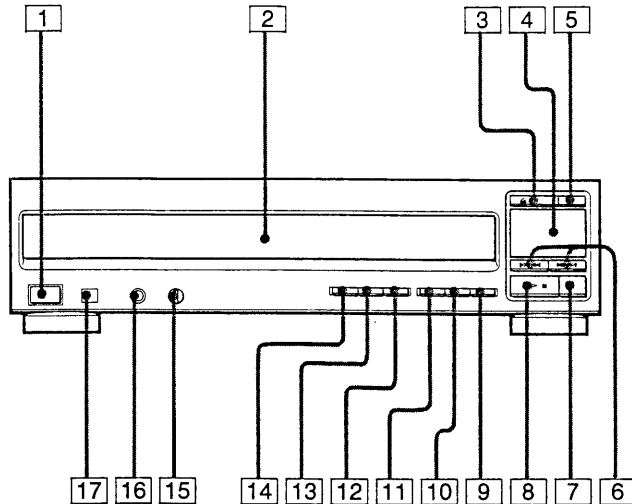


VAROITUS: Laite sisältää, laserdiodin, joka lähettää (näkömätöntä) silmille vaarallista lasersäteilyä.

SECTION 1 GENERAL

1-1. LOCATION OF CONTROLS

Front Panel

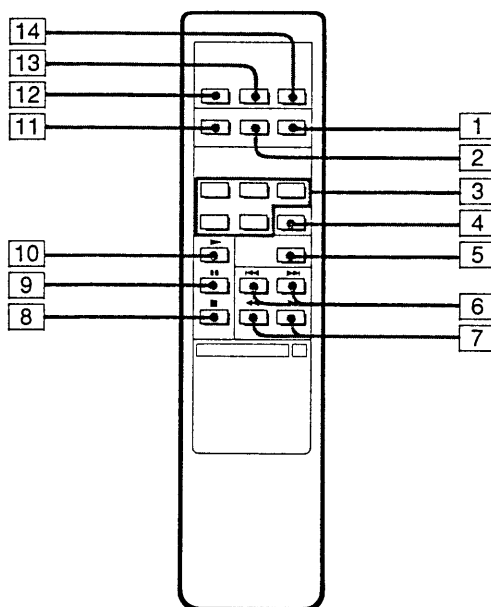


- 1 POWER switch
 - 2 Disc tray
 - 3 ▲ OPEN/CLOSE button
 - 4 Display window
 - 5 DISC SKIP button
 - 6 ◀◀ ◀◀/▶▶ ▶▶ (AMS*/RMS**: manual search) buttons
 - 7 ■ (stop) button
 - 8 ▶▶ (play/pause) button
 - 9 PROGRAM button
 - 10 SHUFFLE button
 - 11 CONTINUE button
 - 12 TIME FADE button
 - 13 REPEAT button
 - 14 TIME button
 - 15 (Headphones) LEVEL control
 - 16 HEADPHONES jack
 - 17 Remote sensor
- } EXCEPT FOR CDP-C201

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

Remote Commander

(CDP-C35/C305 only)

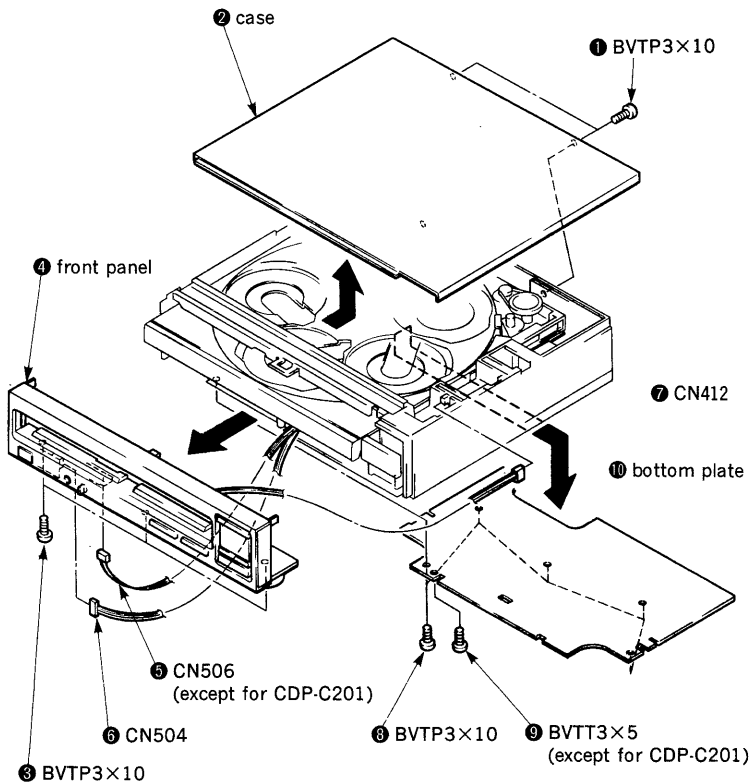


- 1 MUSIC SCAN button
- 2 REPEAT button
- 3 DISC 1 - 5 buttons
- 4 DISC SKIP button
- 5 FADER button
- 6 ◀◀ ▶▶ (AMS*) buttons
- 7 ◀◀ ▶▶ (manual search) buttons
- 8 ■ (stop) button
- 9 || (pause) button
- 10 ▶ (play) button
- 11 TIME button
- 12 CONTINUE button
- 13 SHUFFLE button
- 14 PGM (program) button

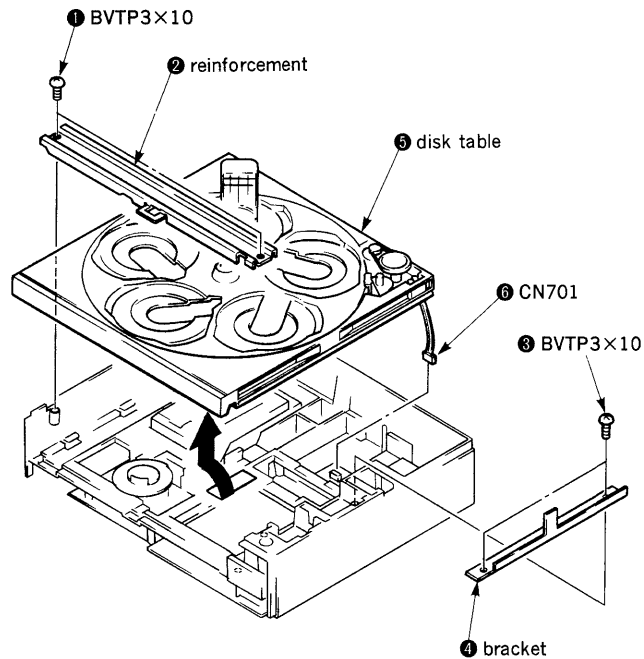
SECTION 2 DIASSEMBLY

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

2-1. FRONT PANEL, CASE AND BOTTOM PLATE

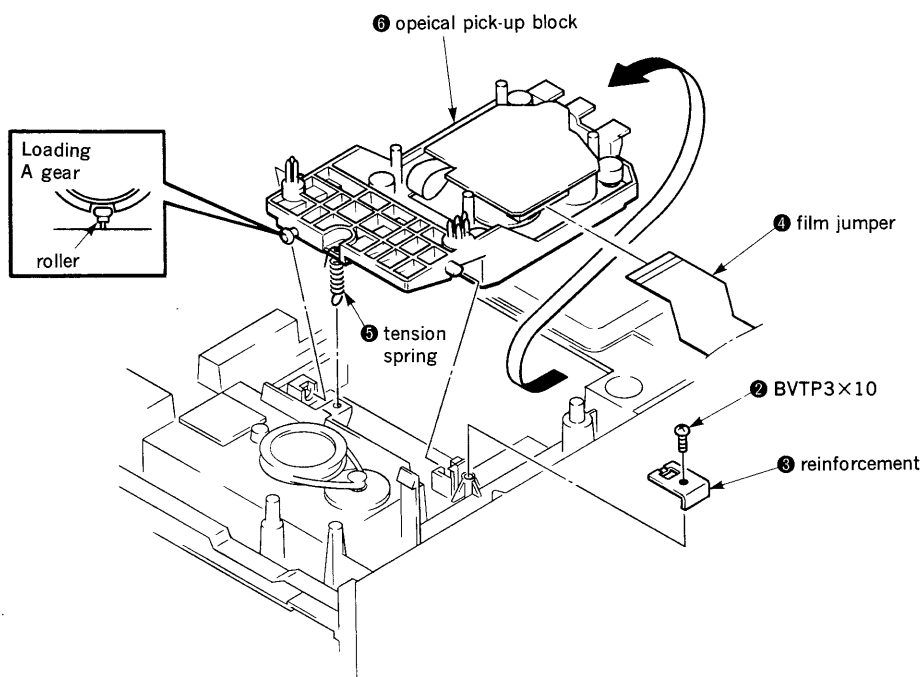


2-2. DISK TABLE



2-3. OPTICAL PICK-UP BLOCK

1 Replace the set up side down.

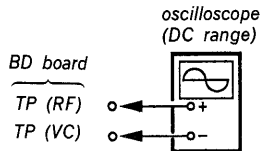


SECTION 3 ELECTRICAL ADJUSTMENTS

1. Perform adjustments in the order given.
2. Use YEDS-18 disc (3-702-101-1) unless otherwise indicated.
3. Use the oscilloscope with more than 10M Ω impedance.

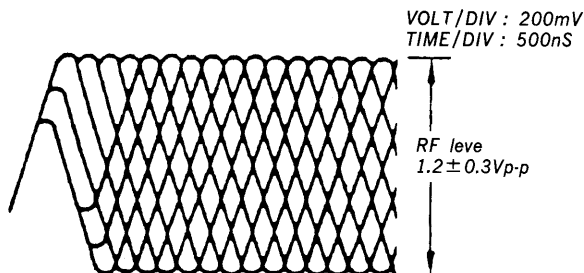
RF Level Check

Procedure :



1. Connect oscilloscope to test point TP (RF) and TP (VC) on BD board.
2. Confirm that RF level and eye pattern is optimum. Optimum eye pattern means that shape "◇" can be clearly distinguished at the center of the wave form.

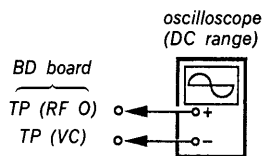
RF signal Reference Waveform (eye pattern)



REFERENCE

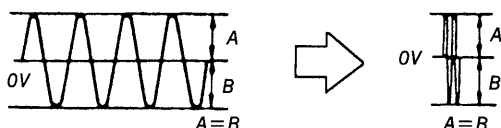
E-F Balance Check

Procedure :



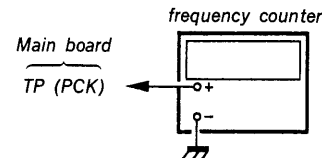
1. Connect test point TP (AF ADJ) and TP (TES) to ground with lead wire.
2. Connect oscilloscope to test point TP (TE O) and TP (VC) on BD board.
3. Turn POWER switch on.
4. Put disc (YEDS-18) in and play back.
5. Confirm that the oscilloscope waveform is symmetrical on the top and bottom in relation to 0V.
6. After check, remove the lead wire connected in step 1.

Note : Take sweep time as long as possible to obtain best waveform.



RF PLL Free-run Frequency Check

Procedure :



1. Turn POWER switch on.
2. Put disc (YEDS-18) in and play back.
3. Confirm that reading on frequency counter is 4.3218MHz.

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 operate.

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

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

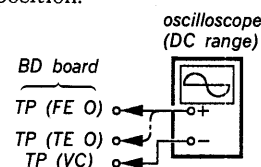
	Gain	Focus	Tracking
Symptoms			
• The time until music starts becomes longer for STOP →▷ PLAY or automatic selection. (◀◀, ▶▶ buttons pressed.) (Normally takes about 1 seconds.)		low	low or high
• Music does not start and disc continues to rotate for STOP →▷ PLAY or automatic selection. (◀◀, ▶▶ buttons pressed.)		—	low
• Sound is interrupted during PLAY. Or time counter display stops progressing.		—	low
• More noise during 2-axis device operation.		high	high

The following is a simple adjustment method.

—Primary Adjustment—

Note : Since exact adjustment cannot be performed, remember the positions of the controls before performing the adjustment.

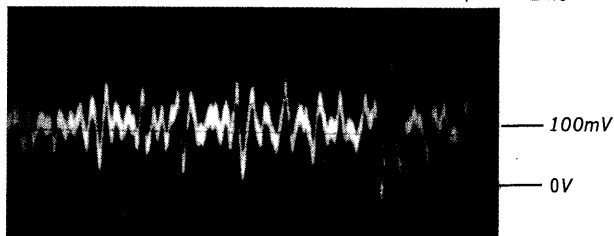
If the positions after the primary adjustment are only a little different, return the controls to the original position.



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-18) and press ▷ PLAY button.
3. Connect oscilloscope to TP (FEO) and TP (VC) on BD board.
4. Adjustment RV102 on BD board so that the waveform is as shown in the figure below. (focus gain adjustment)

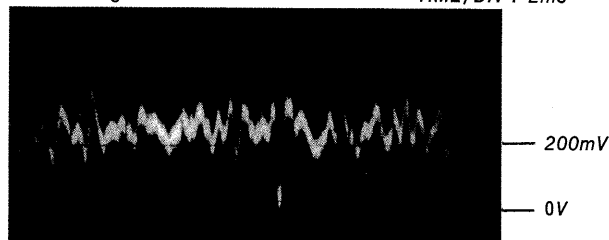
VOLT/DIV : 100mV
TIME/DIV : 2mS



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

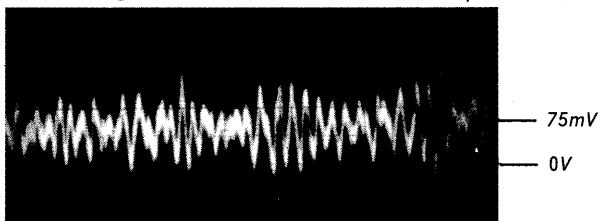
low focus gain

VOLT/DIV : 100mV
TIME/DIV : 2mS



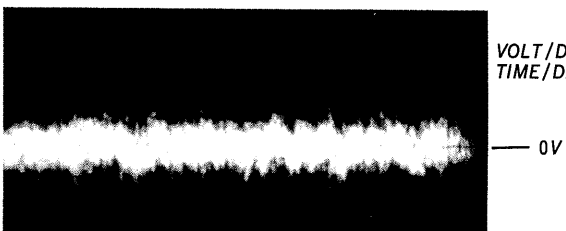
high focus gain

VOLT/DIV : 100mV
TIME/DIV : 2mS



5. Connect oscilloscope to TP (TEO) and TP (VC) on BD board.
6. Adjust RV101 on BD board so that the waveform is as shown the figure below. (tracking gain adjustment)

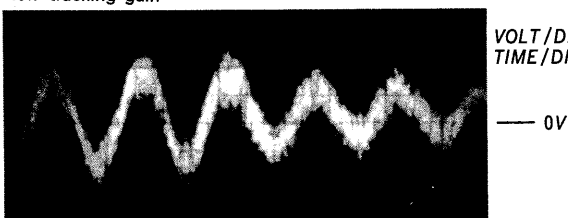
VOLT/DIV : 1V
TIME/DIV : 2mS



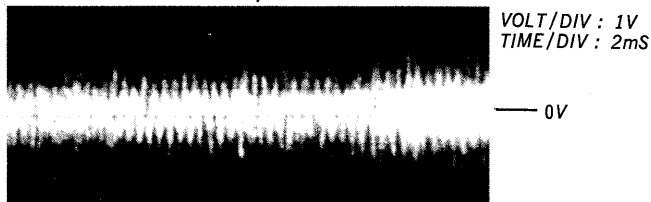
- Incorrect Examples (fundamentia wave appears)

low tracking gain

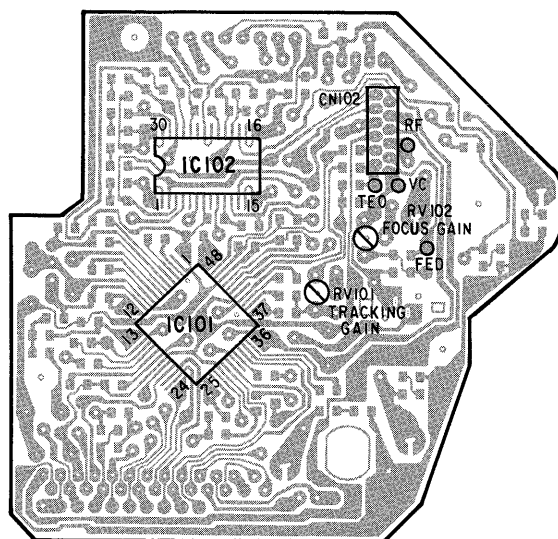
VOLT/DIV : 1V
TIME/DIV : 2mS



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

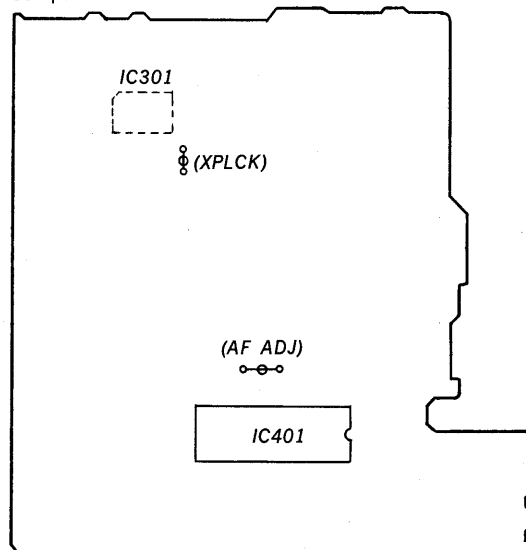


Adjustment Location : [BD board]



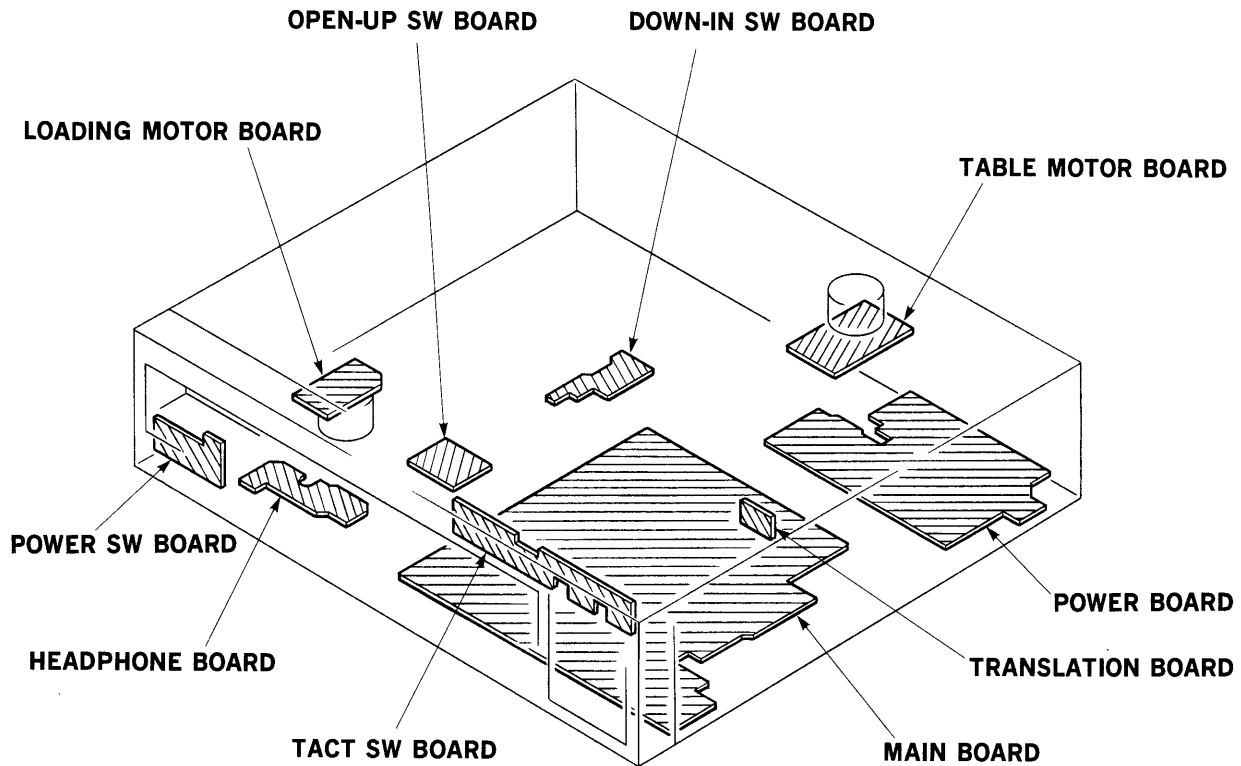
[Main board]

Component side



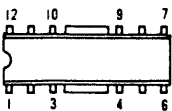
SECTION 4 DIAGRAMS

4-1. CIRCUIT BOARDS LOCATION

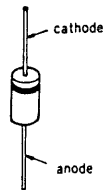


4-2. SEMICONDUCTOR LEAD LAYOUTS

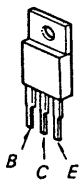
CXA1291P



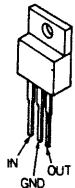
10E2N



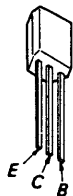
2SB1094-L



MC7808CT



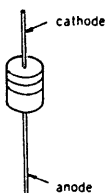
DTA144ES
DTC143TS
DTC144ES



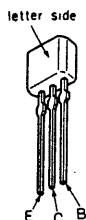
2SD774-34



RD3.9ES-B2
RD4.7ES-B2
1SS202-1



2SA1175-HFE



Ref. No.	Location
D301	G-7
D402	J-6
D403	J-6
D404	J-6
D405	I-5
D406	H-5
D901	F-10
D902	G-10
D903	F-10
D904	G-10
D909	F-10
D910	F-10
D911	E-10
D912	G-11
D913	I-11
D914	E-9
IC101	G-17
IC102	F-17
IC301	C-9
IC302	C-7
IC401	H-7
IC402	H-9
IC403	I-22
IC501	E-6
IC502	F-6
IC503	G-6
IC701	E-15
IC901	F-9
IC902	I-10
IC903	E-10
Q101	H-17
Q301	G-7
Q302	G-6
Q401	I-9
Q501	E-5
Q551	F-5
Q901	G-9
Q902	F-9
Q905	H-10

[illegible]

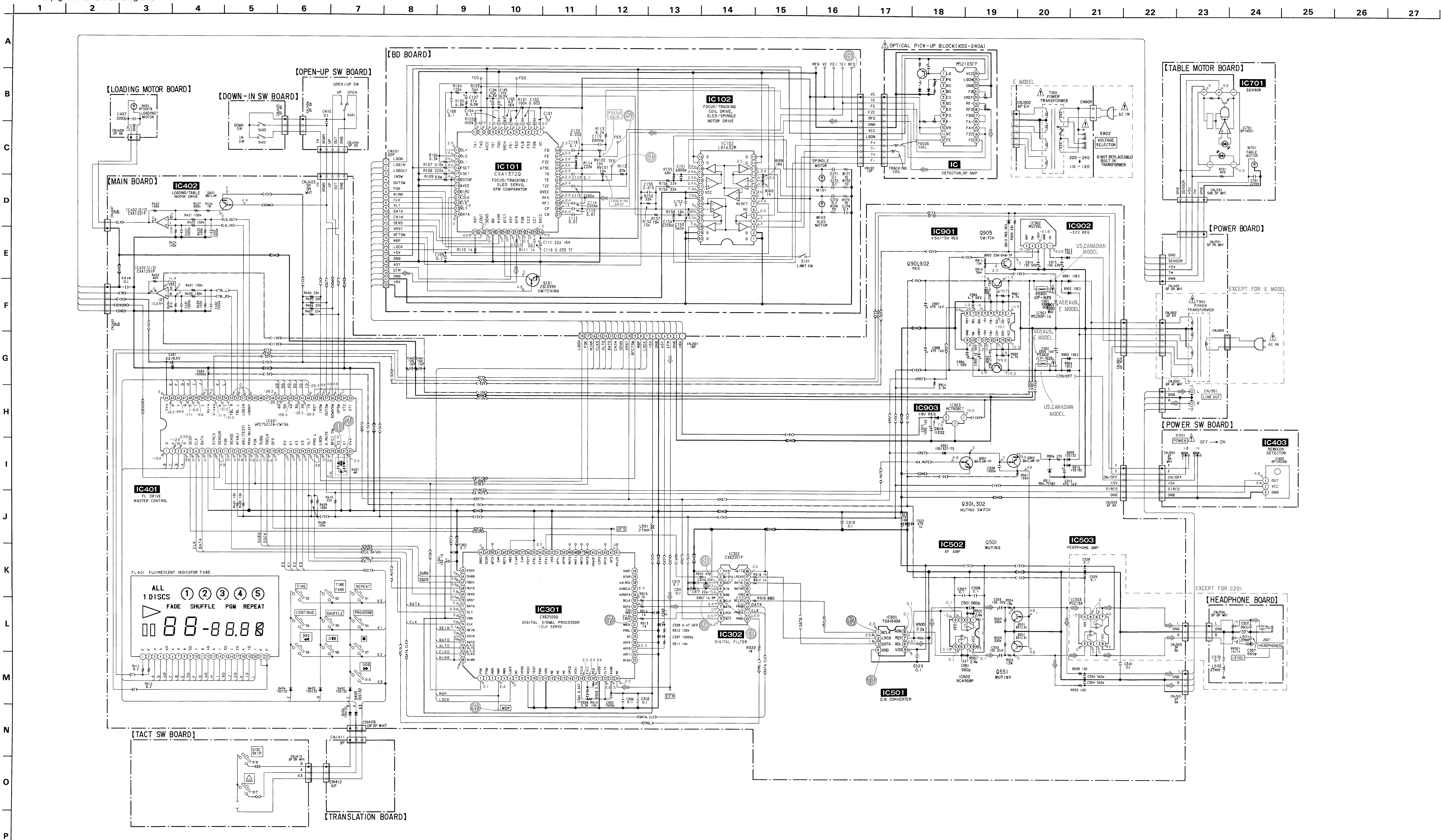
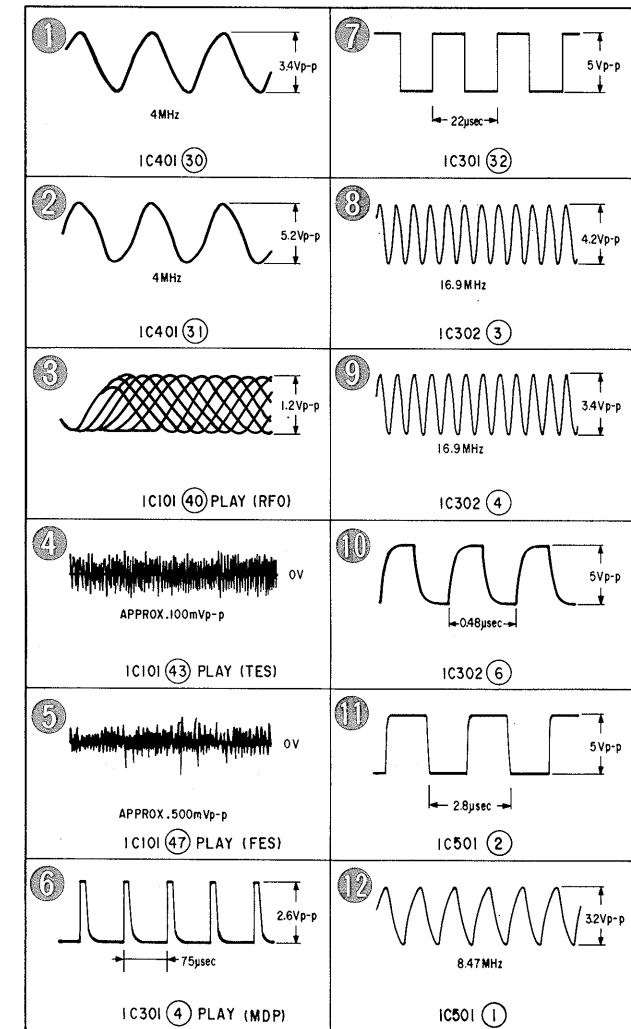
4-4. SCHEMATIC DIAGRAM
• Refer to page 19 for IC Block Diagrams.

- Note:**
- All capacitors are in μF unless otherwise noted. pF : μpF 50WV or less are not indicated except for electrolytics and tantalums.
 - All resistors are in Ω and $\frac{1}{2}\text{W}$ or less unless otherwise specified.
 - ---B+ Line
 - ---B- Line
 - --- : adjustment for repair.
 - Voltage and waveforms are dc with respect to ground under no-signal conditions.
 - no mark: STOP
 - Voltages are taken with a VOM (Input Impedance $10\text{M}\Omega$). Voltage variations may be noted due to normal production tolerances.
 - Waveforms are taken with an oscilloscope. Voltage variations may be noted due to normal production tolerances.
 - Circled numbers refer to waveforms.
 - Signal path
 - --- : CD

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

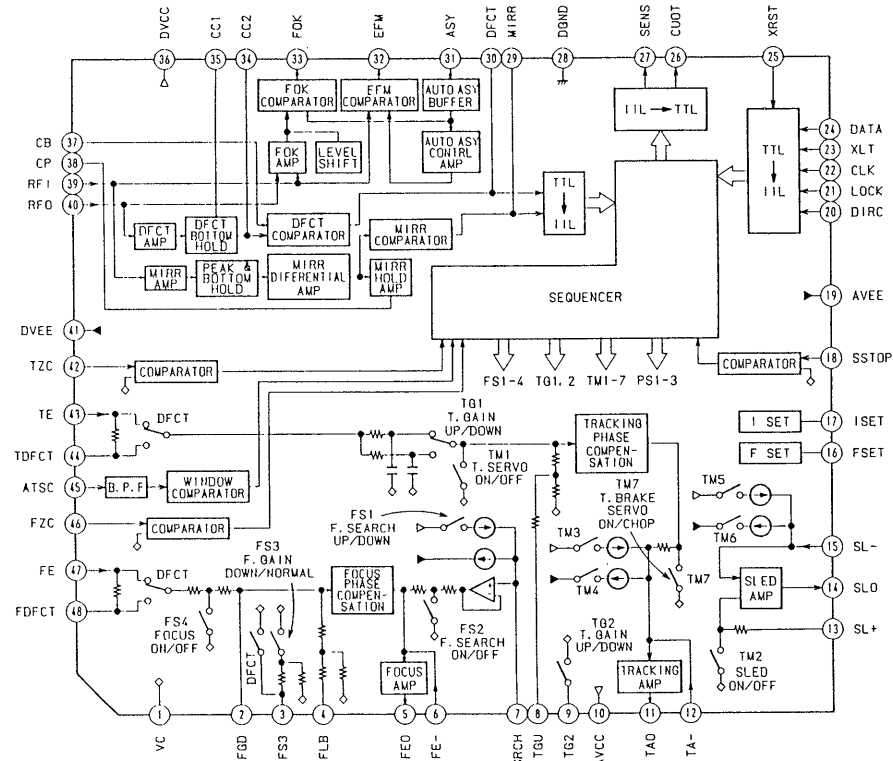
Note: Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

• AUS: Austrarian Model

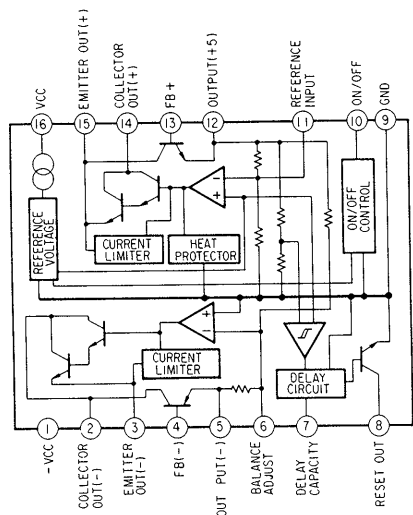


● IC Block Diagrams

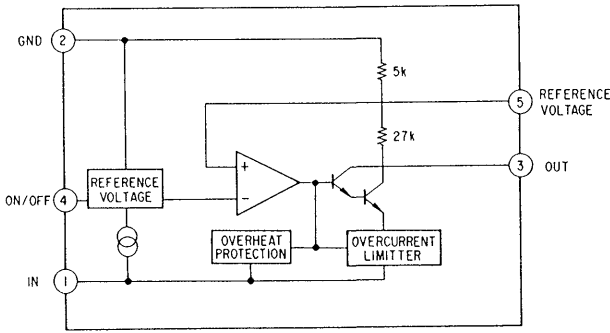
IC101 CXA1372Q



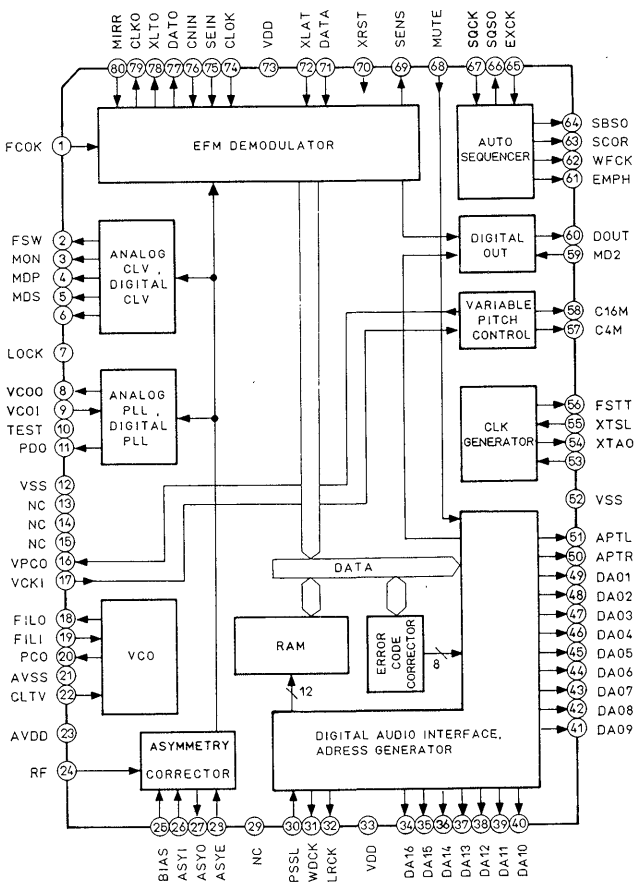
IC901 M5290P-16



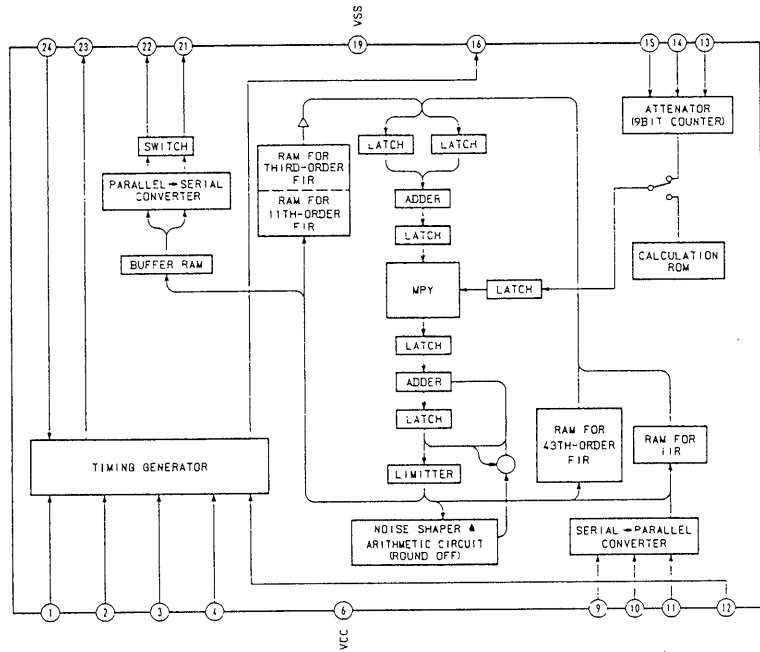
IC902 M5293L



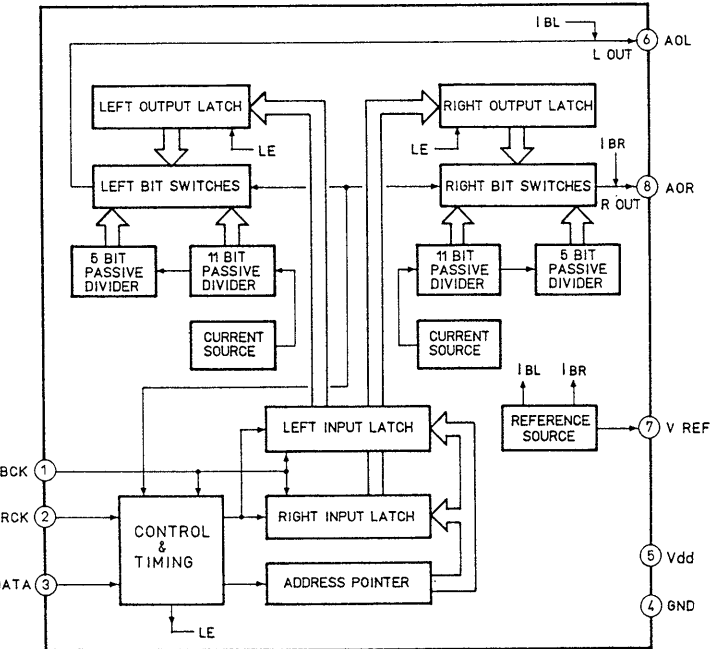
IC301 CXD2500Q



IC302 CXD2551P



IC501 TDA1543A



EXPLODED VIEWS

NOTE:

- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

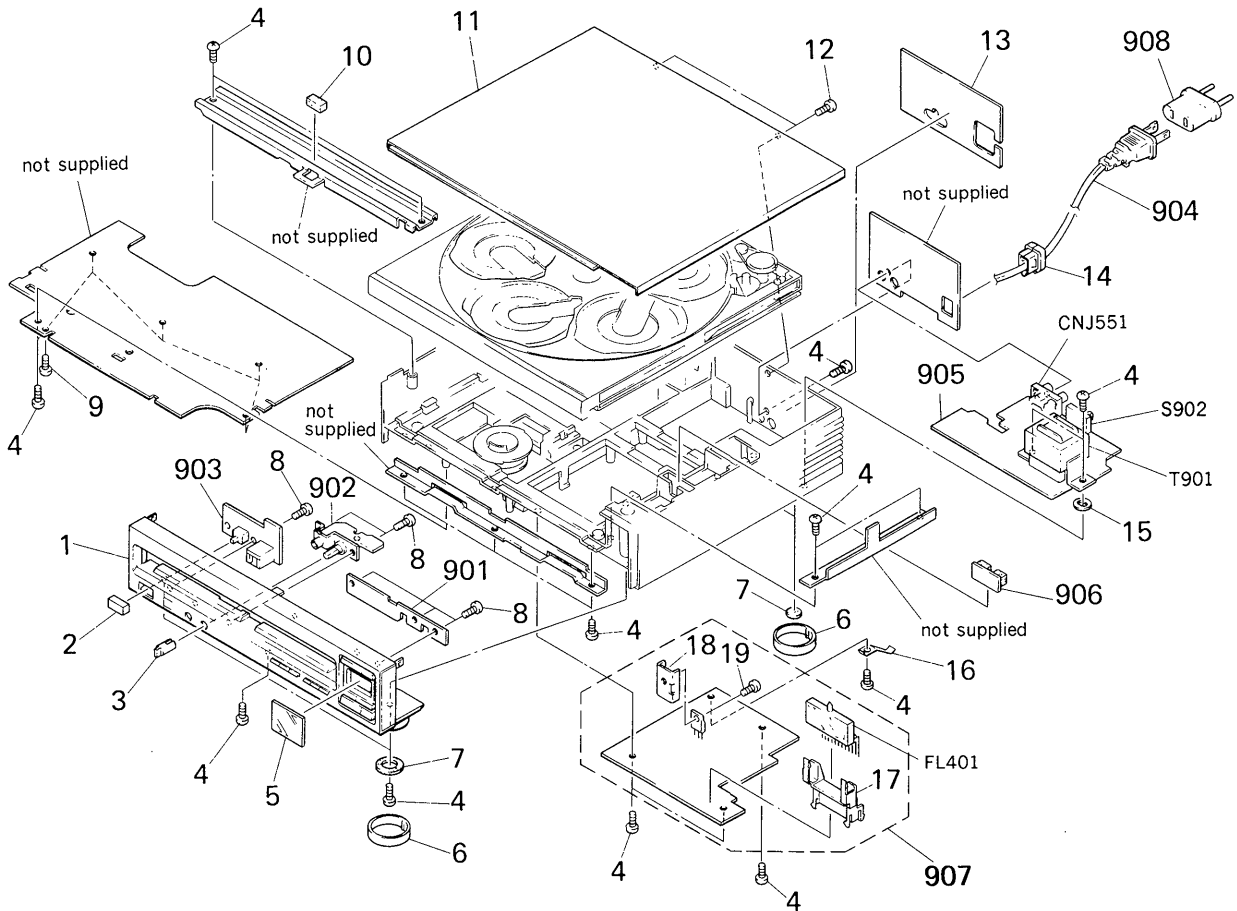
- Color Indication of Appearance Parts
- Example:
- | | | | |
|-----------------|-----|---------------|--------------|
| (RED) | ... | KNOB, BALANCE | (WHITE) |
| ↑ | | | ↑ |
| Cabinet's Color | | | Parts' Color |

Replace only with part number specified.

Ne les remplacer que par une pièce portant le numéro spécifié.

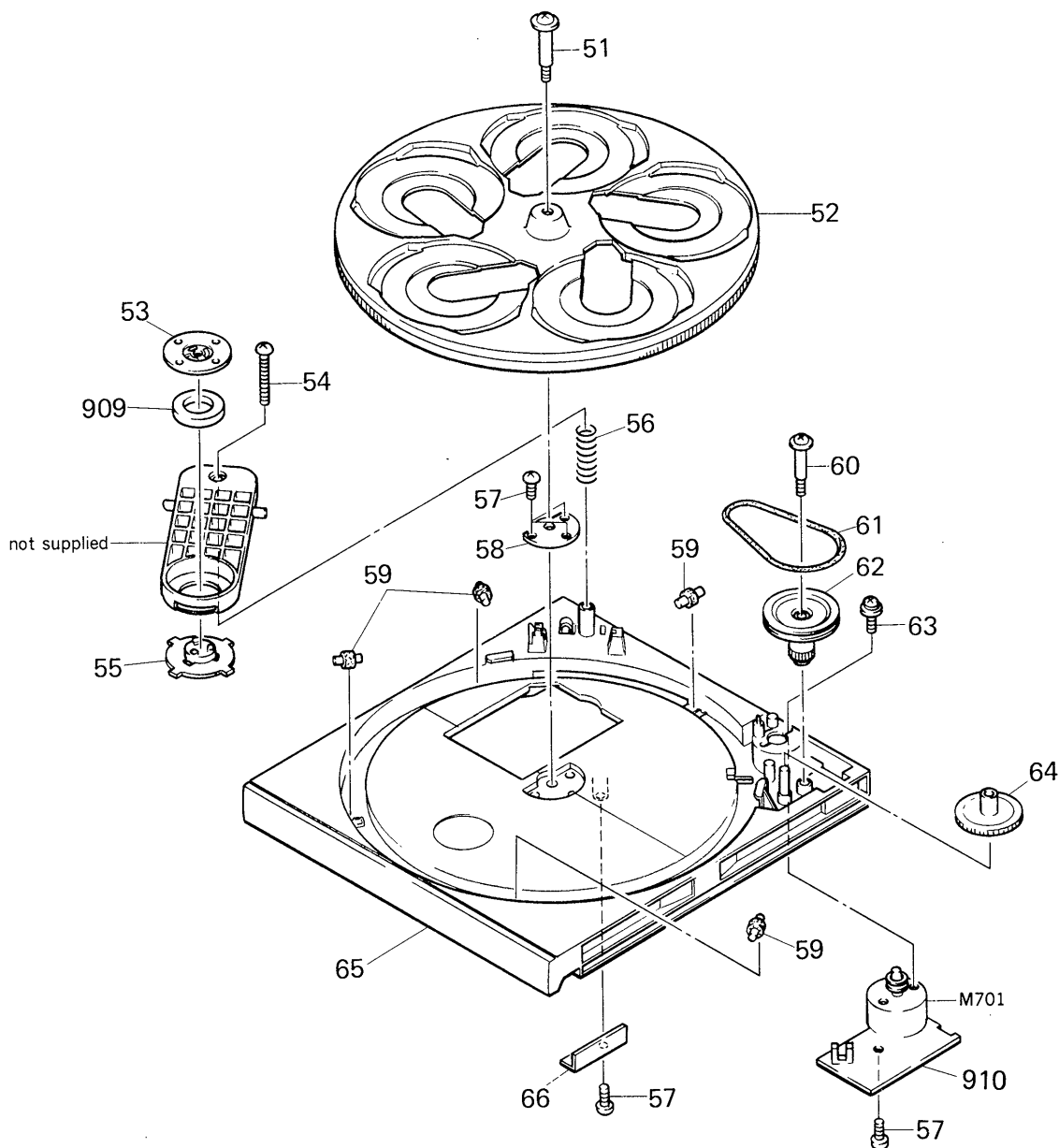
- AUS: Austrarian Model

5-1. CABINET SECTION



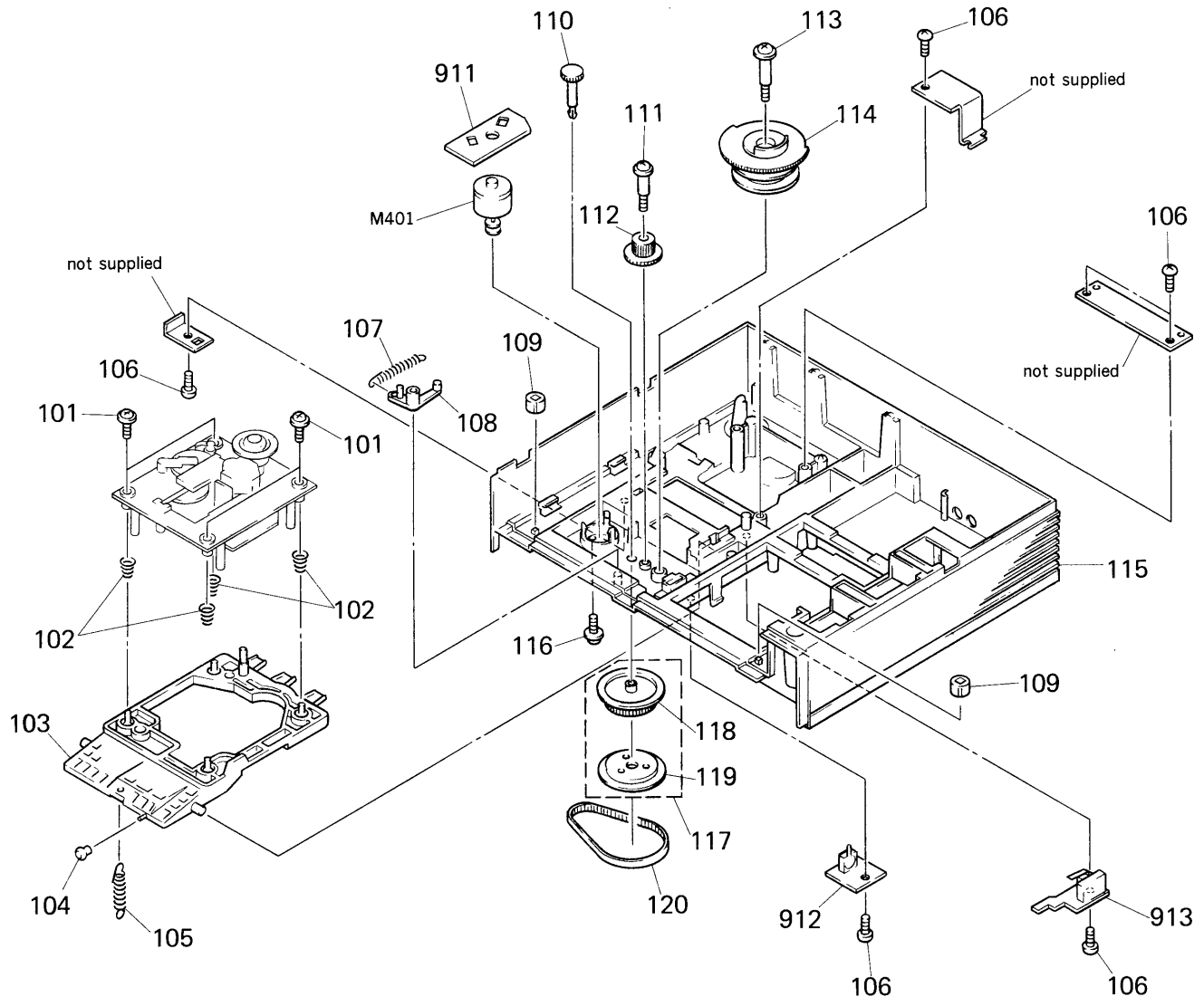
No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
1	X-4924-452-1	(C305:US,Canadian)...	PANEL ASSY, FRONT	15	4-870-539-00	PLATE, GROUND	
	X-4924-453-1	(AEP/E/AUS).....	PANEL ASSY, FRONT	16	*4-930-512-01	PLATE, GROUND	
	X-4924-454-1	(C205).....	PANEL ASSY, FRONT	17	*4-926-396-01	HOLDER (FL)	
	X-4924-455-1	(C201).....	PANEL ASSY, FRONT	18	*3-309-144-21	HEAT SINK	
	X-4924-456-1	(C35).....	PANEL ASSY, FRONT	19	7-682-547-04	SCREW +BVTT 3X6 (S)	
2	4-922-921-01	BUTTON (POWER)		901	*1-634-804-11	PC BOARD, TACT SW	
3	4-922-531-11	(EXCEPT C201)...	KNOB (A TYPE), LOV	902	*1-634-802-11	(EXCEPT C201)...	PC BOARD, HEADPHONE
4	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S		903	*1-634-803-11	PC BOARD, POWER SW	
5	4-934-367-01	(EXCEPT C35)...	WINDOW (FL)	904	△.1-575-104-11	(E).....	CORD, POWER
	4-934-368-01	(C35).....	WINDOW (FL)		△.1-575-105-11	(US,Canadian)...	CORD, POWER
6	4-926-398-01	(AEP/E/AUS)...	PLATE, ORNAMENTAL		△.1-575-453-11	(AEP).....	CORD, POWER
7	4-926-391-01	FOOT (FELT)			△.1-575-677-11	(AUS).....	CORD, POWER
8	4-928-635-01	SCREW, +BV (2.6X8)	TAPPING	905	*1-634-806-11	PC BOARD, POWER	
9	7-685-870-01	SCREW +BVTT 3X5 (S)		906	*1-634-805-11	PC BOARD, TRANSLATION	
10	9-911-842-XX	CUSHION (S)		907	*A-4617-409-A	(C201).....	MOUNTED PCB, MAIN
11	4-930-503-21	CASE			*A-4617-411-A	(C35,C205,C305:US/Canadian)	
12	4-909-982-31	SCREW, TAPPING				...MOUNTED PCB, MAIN	
13	*4-934-346-01	(C305:US)			*A-4617-415-A	(AEP,E,AUS).....	MOUNTED PCB, MAIN
		...PLATE (BACK PANEL),	INDICATION	908	△.1-569-007-11	(E3)...	ADAPTOR, CONVERSION 2P
	*4-934-347-01	(Canadian)			CNJ551 1-566-921-11	JACK, PIN 2P (LINE OUT)	
		...PLATE (BACK PANEL),	INDICATION		FL401 1-519-582-11	INDICATOR TUBE, FLUORESCENT	
	*4-934-348-01	(AEP)...	PLATE (BACK PANEL),	S902	△.1-571-722-11	(E)...	SWITCH, VOLTAGE SELECTION
	*4-934-349-01	(AUS)...	PLATE (BACK PANEL),			(VOLTAGE SELECTOR)	
	*4-934-350-01	(E).....	PLATE (BACK PANEL),	T901	△.1-449-954-11	(US,Canadian)...	TRANSFORMER, POWER
	*4-934-351-01	(C205)...	PLATE (BACK PANEL),	T901	△.1-449-955-11	(AEP/AUS).....	TRANSFORMER, POWER
	*4-934-352-01	(C201)...	PLATE (BACK PANEL),	T901	△.1-449-956-11	(E).....	TRANSFORMER, POWER
	*4-934-353-01	(C35)...	PLATE (BACK PANEL),				
14	*3-703-244-00	(EXCEPT E)...	BUSHING (2104), CORD				
	*3-703-571-11	(E).....	BUSHING (S) (4516), CORD				

5-2. DISK TABLE SECTION



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
51	4-923-597-01	SCREW, STEP		62	4-926-385-01	GEAR (C)	
52	*4-926-383-01	TABLE (B), DISK		63	7-621-759-35	+PSW, 2.6X5	
53	4-921-029-01	YOKE, CHUCKING		64	4-926-386-01	GEAR (B)	
54	7-682-554-04	SCREW +B 3X25					
55	4-921-022-01	PULLEY, CHUCKING		65	4-934-369-01	(EXCEPT C35,C205)...TABLE (A), DISK	
56	4-926-395-01	SPRING, COMPRESSION			4-934-369-11	(C205).....TABLE (A), DISK	
57	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S			4-934-369-21	(C35).....TABLE (A), DISK	
58	*4-926-387-01	BRACKET (CENTER SHAFT)		66	*4-926-388-01	BRACKET (ADJUSTMENT)	
				909	1-452-340-21	MAGNET	
59	*X-4924-409-1	SHAFT (ROLLER B) ASSY		910	*1-634-807-11	PC BOARD, TABLE MOTOR	
60	4-926-384-01	SCREW, STEP		M701	A-4604-232-A	MOTOR ASSY, ROTARY	
61	4-926-399-01	BELT					

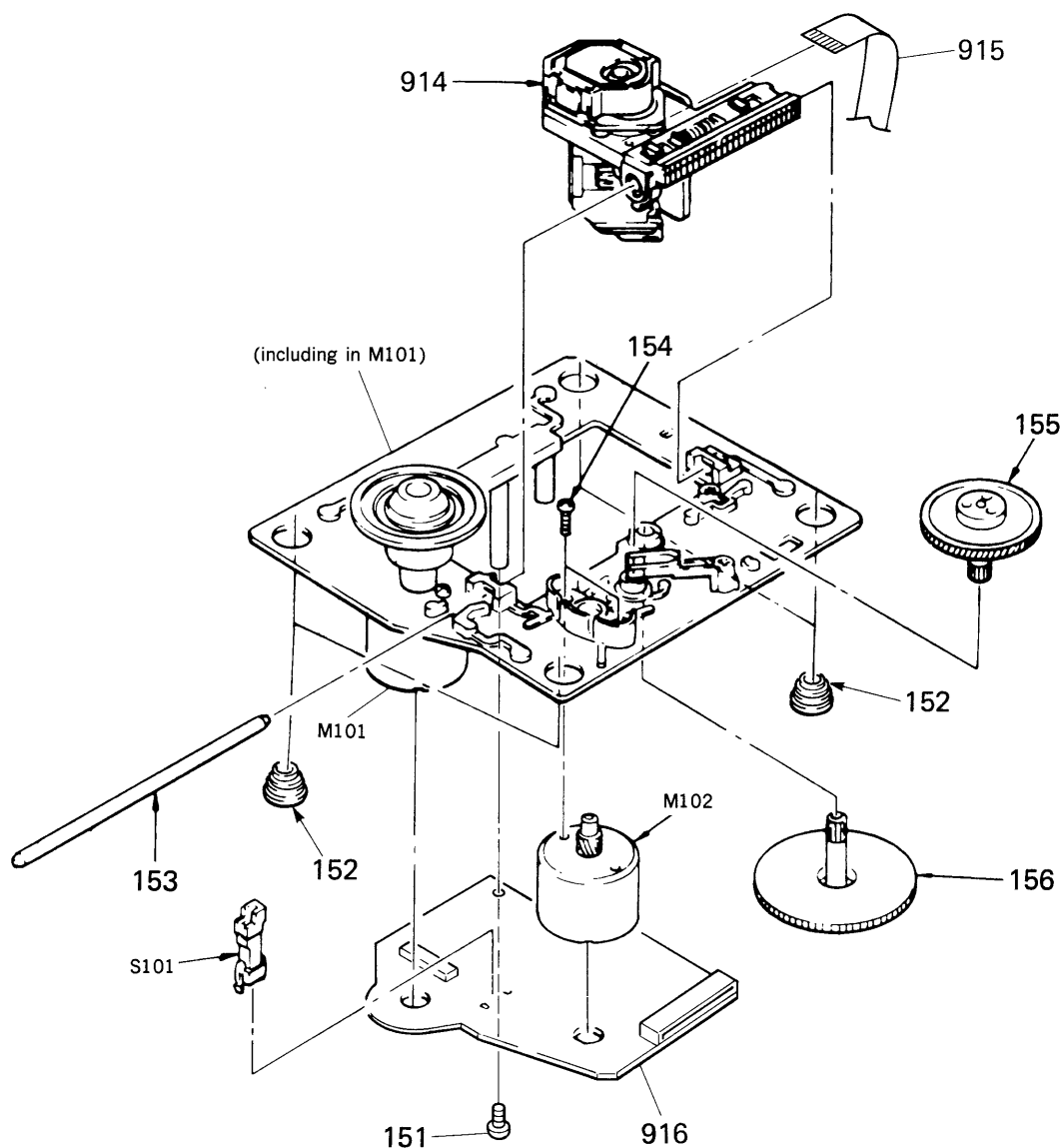
5-3. FRAME SECTION



No.	Part No.	Description	Remarks
101	4-933-134-01	SCREW (+PTPH M2.6X6)	
102	4-917-541-01	SPRING (B)	
103	*4-934-373-01	BRACKET (BU)	
104	4-927-631-01	ROLLER (L)	
105	4-937-911-01	SPRING, TENSION	
106	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
107	4-924-412-01	SPRING (B), TENSION	
108	4-917-519-01	LEVER, SET	
109	*4-930-520-01	CUSHION	
110	4-924-425-01	GEAR (LOADING B)	
111	4-926-320-01	SCREW (B), STEP	
112	4-924-426-01	GEAR (LOADING C)	

No.	Part No.	Description	Remarks
113	4-926-317-01	SCREW, STEP	
114	4-930-508-01	GEAR (LOADING A)	
115	*4-930-591-01	CHASSIS (2)	
116	7-621-759-35	+PSW, 2.6X5	
117	X-4924-443-1	PULLEY ASSY	
118	4-930-507-01	PULLEY (LOADING)	
119	4-930-596-01	PULLEY (FLANGE)	
120	4-924-478-01	BELT (TIMING)	
911	*1-634-808-11	PC BOARD, LOADING MOTOR	
912	*1-634-810-11	PC BOARD, OPEN-UP SW	
913	*1-634-809-11	PC BOARD, DOWN-IN SW	
M401	A-4604-228-A	MOTOR ASSY, LOADING	

5-4. OPTICAL PICK-UP BLOCK (BU-5BD3)



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

Note:
Les composants identifiés par 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	7-685-134-19	SCREW +BTP 2.6X8 TYPE2 N-S		914	 8-848-144-11	DEVICE, OPTICAL KSS-240A	
152	4-933-126-01	INSULATOR (A)		915	1-575-001-11	WIRE, FLAT TYPE (12 CORE)	
153	4-917-565-01	SHAFT, SLED		916	*A-4617-371-A	MOUNTED PCB, BD	
154	7-621-255-15	SCREW +P 2X3		M101	1-4917-523-3	MOTOR ASSY (SPINDLE)	
155	4-917-567-01	GEAR (M)		M102	X-4917-504-1	MOTOR ASSY (SLED)	
156	4-917-564-01	GEAR (P), FLATNESS		S101	1-572-085-11	SWITCH, LEAF (LIMIT IN)	

SECTION 6 ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- 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: μ F, PF: μ μ F.**RESISTORS**

- All resistors are in ohms.
- F: nonflammable

COILS

- MMH: mH, UH: μ H

SEMICONDUCTORSIn each case, U: μ , for example:UA...: μ A..., UPA...: μ PA...,UPC...: μ PC, UPD...: μ PD...

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

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

- AUS: Austrarian Model

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
901	*1-634-804-11	PC BOARD, TACT SW	C171	1-163-038-00	CERAMIC CHIP 0.1MF 25V
902	*1-634-802-11	(EXCEPT C201)...PC BOARD, HEADPHONE	C172	1-163-038-00	CERAMIC CHIP 0.1MF 25V
903	*1-634-803-11	PC BOARD, POWER SW	C173	1-163-038-00	CERAMIC CHIP 0.1MF 25V
904	Δ 1-575-104-11	(E).....CORD, POWER	C174	1-163-038-00	CERAMIC CHIP 0.1MF 25V
	Δ 1-575-105-11	(US,Canadian)...CORD, POWER	C301	1-124-443-00	ELECT 100MF 20% 10V
	Δ 1-575-453-11	(AEP).....CORD, POWER	C302	1-164-159-11	CERAMIC 0.1MF 50V
	Δ 1-575-677-11	(AUS).....CORD, POWER	C304	1-136-161-00	FILM 0.047MF 5% 50V
905	*1-634-806-11	PC BOARD, POWER	C305	1-161-374-11	CERAMIC 0.0015MF 30% 16V
906	*1-634-805-11	PC BOARD, TRANSLATION	C306	1-164-159-11	CERAMIC 0.1MF 50V
907	*A-4617-409-A	(C201).....MOUNTED PCB, MAIN	C307	1-161-379-00	CERAMIC 0.01MF 30% 16V
	*A-4617-411-A	(C35,C205,C305:US/Canadian)	C308	1-124-902-00	ELECT 0.47MF 20% 50V
		...MOUNTED PCB, MAIN	C309	1-164-159-11	CERAMIC 0.1MF 50V
	*A-4617-415-A	(AEP,E,AUS).....MOUNTED PCB, MAIN	C310	1-164-159-11	CERAMIC 0.1MF 50V
908	Δ 1-569-007-11	(E3)...ADAPTOR, CONVERSION 2P	C311	1-164-159-11	CERAMIC 0.1MF 50V
909	1-452-340-21	MAGNET	C312	1-164-159-11	CERAMIC 0.1MF 50V
910	*1-634-807-11	PC BOARD, TABLE MOTOR	C313	1-164-159-11	CERAMIC 0.1MF 50V
911	*1-634-808-11	PC BOARD, LOADING MOTOR	C314	1-164-159-11	CERAMIC 0.1MF 50V
912	*1-634-810-11	PC BOARD, OPEN-UP SW	C315	1-164-159-11	CERAMIC 0.1MF 50V
913	*1-634-809-11	PC BOARD, DOWN-IN SW	C316	1-162-207-31	CERAMIC 22PF 5% 50V
914	Δ 1-8-848-144-11	DEVICE, OPTICAL KSS-240A	C317	1-162-207-31	CERAMIC 22PF 5% 50V
915	1-575-001-11	WIRE, FLAT TYPE (12 CORE)	C328	1-162-294-31	CERAMIC 0.001MF 10% 50V
916	*A-4617-371-A	MOUNTED PCB, BD	C401	1-124-638-11	ELECT 22MF 20% 6.3V
C101	1-163-038-00	CERAMIC CHIP 0.1MF 25V	C404	1-161-379-00	CERAMIC 0.01MF 30% 16V
C102	1-163-989-11	CERAMIC CHIP 0.033MF 10% 25V	C407	1-161-494-00	CERAMIC 0.022MF 25V
C103	1-126-094-11	ELECT 4.7MF 20% 16V	C410	1-164-159-11	CERAMIC 0.1MF 50V
C104	1-163-038-00	CERAMIC CHIP 0.1MF 25V	C421	1-162-294-31	CERAMIC 0.001MF 10% 50V
C105	1-126-154-11	ELECT 47MF 20% 6.3V	C422	1-162-294-31	CERAMIC 0.001MF 10% 50V
C106	1-126-154-11	ELECT 47MF 20% 6.3V	C431	1-162-294-31	CERAMIC 0.001MF 10% 50V
C107	1-126-154-11	ELECT 47MF 20% 6.3V	C432	1-162-294-31	CERAMIC 0.001MF 10% 50V
C108	1-163-038-00	CERAMIC CHIP 0.1MF 25V	C441	1-126-101-11	ELECT 100MF 20% 16V
C109	1-163-038-00	CERAMIC CHIP 0.1MF 25V	C442	1-126-101-11	ELECT 100MF 20% 16V
C110	1-163-989-11	CERAMIC CHIP 0.033MF 10% 25V	C501	1-162-291-31	CERAMIC 560PF 10% 50V
C111	1-131-367-00	TANTALUM 22MF 20% 16V	C503	1-124-478-11	ELECT 100MF 20% 25V
C112	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	C504	1-162-291-31	CERAMIC 560PF 10% 50V
C113	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	C507	1-162-291-31	(EXCEPT C201)...CERAMIC 560PF 10% 50V
C114	1-164-161-11	CERAMIC CHIP 0.0022MF 10% 50V	C521	1-126-103-11	ELECT 470MF 20% 16V
C115	1-164-161-11	CERAMIC CHIP 0.0022MF 10% 50V	C522	1-126-103-11	ELECT 470MF 20% 16V
C117	1-163-038-00	CERAMIC CHIP 0.1MF 25V	C523	1-164-159-11	CERAMIC 0.1MF 50V
C118	1-163-038-00	CERAMIC CHIP 0.1MF 25V	C526	1-164-159-11	CERAMIC 0.1MF 50V
C119	1-164-161-11	CERAMIC CHIP 0.0022MF 10% 50V	C527	1-164-159-11	CERAMIC 0.1MF 50V
C120	1-163-989-11	CERAMIC CHIP 0.033MF 10% 25V	C528	1-164-159-11	(EXCEPT C201)...CERAMIC 0.1MF 50V
C151	1-163-019-00	CERAMIC CHIP 0.0068MF 10% 50V	C529	1-164-159-11	(EXCEPT C201)...CERAMIC 0.1MF 50V
C152	1-163-038-00	CERAMIC CHIP 0.1MF 25V	C551	1-162-291-31	CERAMIC 560PF 10% 50V
C153	1-163-006-11	CERAMIC CHIP 560PF 10% 50V	C553	1-124-478-11	ELECT 100MF 20% 25V
C154	1-164-161-11	CERAMIC CHIP 0.0022MF 10% 50V	C554	1-162-291-31	CERAMIC 560PF 10% 50V
C155	1-163-023-00	CERAMIC CHIP 0.015MF 10% 50V			

Ref.No.	Part No.	Description
C557	1-162-291-31	(EXCEPT C201)...CERAMIC 560PF 10% 50V
C570	1-164-159-11	(EXCEPT C201)...CERAMIC 0.1MF 50V
C701	1-161-375-00	CERAMIC 0.0022MF 30% 16V
C901	1-124-360-00	ELECT 1000MF 20% 16V
C902	1-124-887-00	ELECT 3300MF 20% 16V
C904	1-124-927-11	ELECT 4.7MF 20% 50V
C905	1-123-875-11	ELECT 10MF 20% 50V
C906	1-124-791-11	ELECT 1MF 20% 50V
C907	1-126-103-11	ELECT 470MF 20% 16V
C908	1-126-103-11	ELECT 470MF 20% 16V
C912	1-126-103-11	ELECT 470MF 20% 16V
C913	1-124-572-11	ELECT 100MF 20% 63V
C914	1-124-122-11	ELECT 100MF 20% 50V
C915	1-124-360-00	ELECT 1000MF 20% 16V
CN101	1-568-796-11	SOCKET, CONNECTOR 22P
CN102	1-568-795-11	SOCKET, CONNECTOR 12P
CNJ301	1-568-468-11	SOCKET, CONNECTOR 18P
CNJ402*1	1-564-339-61	PIN, CONNECTOR 5P
CNJ403*1	1-564-339-00	PIN, CONNECTOR 5P
CNJ407*1	1-564-336-00	PIN, CONNECTOR 2P
CNJ411*1	1-564-337-00	PIN, CONNECTOR 3P
CNJ502*1	1-564-338-00	PIN, CONNECTOR 4P
CNJ504*1	1-564-499-11	PIN, CONNECTOR 6P
CNJ506*1	1-564-337-00	(EXCEPT C201)...PIN, CONNECTOR 3P
CNJ551	1-566-921-11	JACK, PIN 2P (LINE OUT)
CNJ701*1	1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P
CNJ902*1	1-564-509-11	PLUG, CONNECTOR 6P
CNJ903*1	1-564-321-00	PIN, CONNECTOR 2P
D301	8-719-107-94	DIODE 1SS202-1
D402	8-719-107-94	DIODE 1SS202-1
D403	8-719-107-94	DIODE 1SS202-1
D404	8-719-107-94	DIODE 1SS202-1
D405	8-719-107-94	DIODE 1SS202-1
D406	8-719-107-94	DIODE 1SS202-1
D901	8-719-200-77	DIODE 10E2N
D902	8-719-200-77	DIODE 10E2N
D903	8-719-200-77	DIODE 10E2N
D904	8-719-200-77	DIODE 10E2N
D909	8-719-107-94	DIODE 1SS202-1
D910	8-719-107-94	DIODE 1SS202-1
D911	8-719-109-81	DIODE RD4.7ES-B2
D912	8-719-200-77	DIODE 10E2N
D913	8-719-109-72	DIODE RD3.9ES-B2
D914	8-719-200-82	DIODE 11ES2
FL401	1-519-582-11	INDICATOR TUBE, FLUORESCENT
IC101	8-752-037-33	IC CXA1372Q
IC102	8-759-821-94	IC LA6532M
IC301	8-752-333-31	IC CXD2500Q
IC302	8-752-334-06	IC CXD2551P
IC401	8-759-149-33	IC UPD75212ACW-196
IC402	8-752-035-28	IC CXA1291P
IC403	8-749-920-83	IC GPIU52XB
IC501	8-759-990-13	IC TDA1543A-S1
IC502	8-759-945-58	IC RC4558P
IC503	8-759-634-51	(EXCEPT C201)...IC M5218AP
IC701	8-719-970-19	IC GP-1A521

Ref.No.	Part No.	Description
IC901	8-759-630-21	IC M5290P-16
IC902	8-759-633-42	IC M5293L
IC903	8-759-013-08	IC MC7808CT
J101	1-216-295-00	METAL GLAZE 0 5% 1/10W
J102	1-216-295-00	METAL GLAZE 0 5% 1/10W
J507	1-568-519-21	(EXCEPT C201)...JACK, LARGE TYPE (HEADPHONES)
L301	*1-410-858-11	INDUCTOR 27MMH
L501	*1-410-858-11	(EXCEPT C201)...INDUCTOR 27MMH
L502	*1-410-858-11	(EXCEPT C201)...INDUCTOR 27MMH
M101	1-4917-523-3	MOTOR ASSY (SPINDLE)
M102	X-4917-504-1	MOTOR ASSY (SLED)
M401	A-4604-228-A	MOTOR ASSY, LOADING
M701	A-4604-232-A	MOTOR ASSY, ROTARY
PS901A	1-532-637-00	(AEP/E/AUS)...LINK, IC ICP-N25 (1A)
PS902A	1-532-637-00	(AEP/E/AUS)...LINK, IC ICP-N25 (1A)
Q101	8-729-901-01	TRANSISTOR DTC144EK
Q301	8-729-900-89	TRANSISTOR DTC144ES
Q302	8-729-900-65	TRANSISTOR DTA144ES
Q401	8-729-900-65	TRANSISTOR DTA144ES
Q501	8-729-900-74	TRANSISTOR DTC143TS
Q551	8-729-900-74	TRANSISTOR DTC143TS
Q901	8-729-140-96	TRANSISTOR 2SD774-34
Q902	8-729-111-67	TRANSISTOR 2SB1094-L
Q905	8-729-119-76	TRANSISTOR 2SA1175-HFE
R101	1-216-097-00	METAL GLAZE 100K 5% 1/10W
R102	1-216-097-00	METAL GLAZE 100K 5% 1/10W
R103	1-216-091-00	METAL GLAZE 56K 5% 1/10W
R104	1-216-099-00	METAL GLAZE 120K 5% 1/10W
R105	1-216-069-00	METAL GLAZE 6.8K 5% 1/10W
R106	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W
R107	1-216-114-00	METAL GLAZE 510K 5% 1/10W
R108	1-216-105-00	METAL GLAZE 220K 5% 1/10W
R109	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W
R110	1-216-049-00	METAL GLAZE 1K 5% 1/10W
R111	1-216-049-00	METAL GLAZE 1K 5% 1/10W
R112	1-216-083-00	METAL GLAZE 27K 5% 1/10W
R113	1-216-071-00	METAL GLAZE 8.2K 5% 1/10W
R114	1-216-105-00	METAL GLAZE 220K 5% 1/10W
R152	1-216-073-00	METAL GLAZE 10K 5% 1/10W
R153	1-216-085-00	METAL GLAZE 33K 5% 1/10W
R154	1-216-085-00	METAL GLAZE 33K 5% 1/10W
R155	1-216-093-00	METAL GLAZE 68K 5% 1/10W
R156	1-216-081-00	METAL GLAZE 22K 5% 1/10W
R157	1-216-079-00	METAL GLAZE 18K 5% 1/10W
R158	1-216-079-00	METAL GLAZE 18K 5% 1/10W
R159	1-216-079-00	METAL GLAZE 18K 5% 1/10W
R160	1-216-049-00	METAL GLAZE 1K 5% 1/10W
R171	1-216-001-00	METAL GLAZE 10 5% 1/10W
R172	1-216-001-00	METAL GLAZE 10 5% 1/10W
R173	1-216-001-00	METAL GLAZE 10 5% 1/10W
R174	1-216-001-00	METAL GLAZE 10 5% 1/10W
R308	1-249-423-11	CARBON 3.3K 5% 1/4W
R309	1-249-423-11	CARBON 3.3K 5% 1/4W
R310	1-249-429-11	CARBON 10K 5% 1/4W
R311	1-249-429-11	CARBON 10K 5% 1/4W
R312	1-249-441-11	CARBON 100K 5% 1/4W
R313	1-249-417-11	CARBON 1K 5% 1/4W

Note:

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

Note:

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

Ref.No.	Part No.	Description			
R314	1-249-417-11	CARBON	1K	5%	1/4W
R315	1-249-417-11	CARBON	1K	5%	1/4W
R316	1-249-415-11	CARBON	680	5%	1/4W
R317	1-249-417-11	CARBON	1K	5%	1/4W
R318	1-249-417-11	CARBON	1K	5%	1/4W
R320	1-249-413-11	CARBON	470	5%	1/4W
R322	1-249-417-11	CARBON	1K	5%	1/4W
R341	1-249-441-11	CARBON	100K	5%	1/4W
R401	1-249-429-11	CARBON	10K	5%	1/4W
R402	1-249-429-11	CARBON	10K	5%	1/4W
R404	1-249-433-11	CARBON	22K	5%	1/4W
R405	1-249-433-11	CARBON	22K	5%	1/4W
R406	1-249-433-11	CARBON	22K	5%	1/4W
R407	1-249-433-11	CARBON	22K	5%	1/4W
R408	1-249-441-11	CARBON	100K	5%	1/4W
R409	1-249-441-11	CARBON	100K	5%	1/4W
R410	1-249-433-11	CARBON	22K	5%	1/4W
R411	1-249-392-11	CARBON	8.2	5%	1/4W
R412	1-249-392-11	CARBON	8.2	5%	1/4W
R421	1-247-883-00	CARBON	150K	5%	1/4W
R422	1-249-441-11	CARBON	100K	5%	1/4W
R423	1-247-883-00	CARBON	150K	5%	1/4W
R424	1-247-882-11	CARBON	130K	5%	1/4W
R425	1-249-441-11	CARBON	100K	5%	1/4W
R426	1-247-903-00	CARBON	1M	5%	1/4W
R427	1-247-890-11	CARBON	300K	5%	1/4W
R431	1-247-883-00	CARBON	150K	5%	1/4W
R432	1-249-440-11	CARBON	82K	5%	1/4W
R433	1-247-882-11	CARBON	130K	5%	1/4W
R434	1-247-878-00	CARBON	91K	5%	1/4W
R435	1-249-441-11	CARBON	100K	5%	1/4W
R500	1-249-421-11	CARBON	2.2K	5%	1/4W
R501	1-247-840-00	CARBON	2.4K	5%	1/4W
R503	1-247-891-00	CARBON	330K	5%	1/4W
R504	1-249-419-11	CARBON	1.5K	5%	1/4W
R509	1-249-405-11	CARBON	100	5%	1/4W
R551	1-247-840-00	CARBON	2.4K	5%	1/4W
R553	1-247-891-00	CARBON	330K	5%	1/4W
R554	1-249-419-11	CARBON	1.5K	5%	1/4W
R559	1-249-405-11	CARBON	100	5%	1/4W
R701	1-249-416-11	CARBON	820	5%	1/4W
R901	1-249-425-11	CARBON	4.7K	5%	1/4W
R902	1-249-425-11	CARBON	4.7K	5%	1/4W
R906	1-249-410-11	CARBON	270	5%	1/4W
R909	1-249-435-11	CARBON	33K	5%	1/4W
R910	1-249-438-11	CARBON	56K	5%	1/4W
R911	1-249-429-11	CARBON	10K	5%	1/4W
R914	1-249-423-11	CARBON	3.3K	5%	1/4W
RV101	1-238-016-11	RES, ADJ, CARBON 10K			
RV102	1-238-016-11	RES, ADJ, CARBON 10K			
RV501	1-241-031-11	(EXCEPT C201)...RES, VAR, CARBON 1K/1K (HEADPHONES LEVEL)			

Ref.No.	Part No.	Description
S1	1-554-088-00	SWITCH, KEY BOARD (REPEAT)
S2	1-554-088-00	SWITCH, KEY BOARD (TIME FADE)
S3	1-554-088-00	SWITCH, KEY BOARD (TIME)
S4	1-554-088-00	SWITCH, KEY BOARD (PROGRAM)
S5	1-554-088-00	SWITCH, KEY BOARD (SHUFFLE)
S6	1-554-088-00	SWITCH, KEY BOARD (CONTINUE)
S7	1-554-088-00	SWITCH, KEY BOARD (■)
S8	1-554-088-00	SWITCH, KEY BOARD (□▷□)
S9	1-554-088-00	SWITCH, KEY BOARD (□◀◀◀◀)
S10	1-554-088-00	SWITCH, KEY BOARD (▶▶▶▶▶)
S17	1-554-596-21	SWITCH, KEY BOARD (△OPEN/CLOSE)
S18	1-554-596-21	SWITCH, KEY BOARD (DISC SKIP)
S101	1-572-085-11	SWITCH, LEAF (LIMIT IN)
S401	1-571-300-11	SWITCH, ROTARY (OPEN/UP)
S402	1-554-205-00	SWITCH, PUSH (IN)
S403	1-570-973-11	SWITCH (DOWN)
S901	△.1-571-305-11	SWITCH, PUSH (1 KEY)(POWER)
S902	△.1-571-722-11	(E)...SWITCH, VOLTAGE SELECTION (VOLTAGE SELECTOR)
T901	△.1-449-954-11	(US,Canadian)...TRANSFORMER, POWER
T901	△.1-449-955-11	(AEP/AUS).....TRANSFORMER, POWER
T901	△.1-449-956-11	(E).....TRANSFORMER, POWER
X301	1-567-908-21	VIBRATOR, CRYSTAL (16MHz)
X401	1-577-358-21	VIBRATOR, CERAMIC (4MHz)

ACCESSORY & PACKING MATERIAL

1-465-398-11	(EXCEPT C201,C205)...COMMANDER, REMOTE (RM-D306)
2-181-754-01	(EXCEPT C201,C205)...COVER, BATTERY
1-559-533-11	CORD, CONNECTION
*3-701-630-00	BAG, POLYETHYLENE
*3-704-217-01	(EXCEPT AEP/E/AUS)...LABEL(CERTIFICATION)
3-751-430-11	(Canadian/AEP/E)...MANUAL, INSTRUCTION (ENGLISH,FRENCH,SPANISH,PORTUGUESE)
3-751-430-21	(C201,C205,C305:US/AUS) ...MANUAL, INSTRUCTION (ENGLISH)
3-751-430-41	(AEP)...MANUAL, INSTRUCTION (GERMAN,DUTCH,SWEDISH,ITALIAN)
3-751-431-21	(C35)...MANUAL, INSTRUCTION (ENGLISH)
4-930-510-01	PLATE, LOCK
*4-937-901-01	CUSHION (FRONT)
*4-937-902-01	CUSHION (REAR)
*4-937-903-11	(C305)....INDIVIDUAL CARTON
*4-937-903-21	(C35)....INDIVIDUAL CARTON
*4-937-903-31	(C205)....INDIVIDUAL CARTON
*4-937-903-41	(C201)....INDIVIDUAL CARTON

Note:

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

Note:

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

CDP-C35/C201/C205/C305

SONY SERVICE MANUAL

CORRECTION-1

Correct your service manual as shown below.

 : indicates corrected portion.

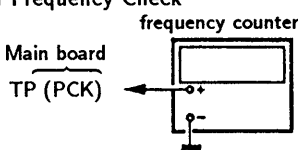
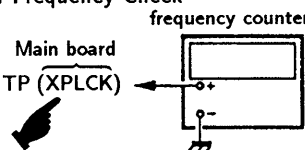
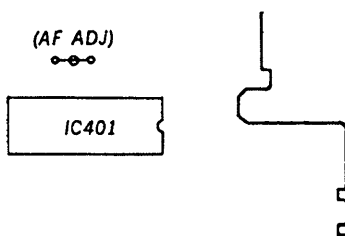
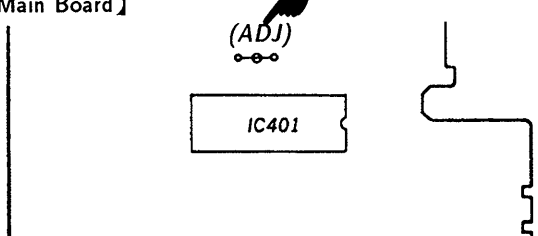
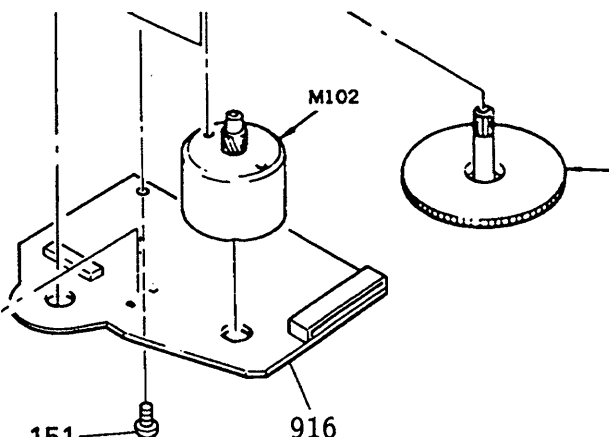
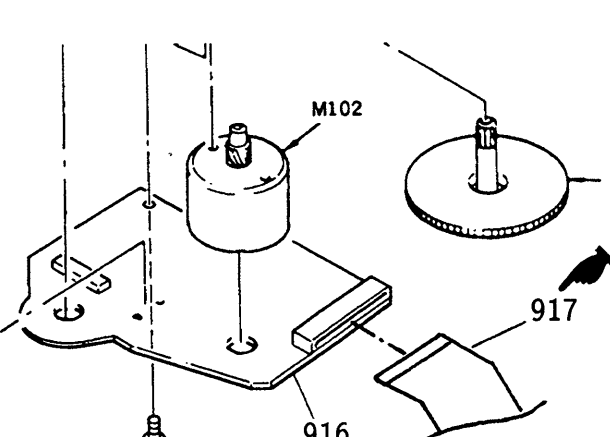
US Model
CDP-C35/C201/C205/C305

Canadian Model

AEP Model

E Model

Australian Model
CDP-C305

Page	INCORRECT	CORRECT															
7	E-F Blance Check Procedure : 1. Connect test point TP (AFADJ) and TP (TES) to ground with lead wire. RF PLL Free-run Frequency Check Procedure : 	E-F Blance Check Procedure : 1. Connect test point TP (ADJ) to ground and TP (TES) to TP (VC) with lead wire. RF PLL Free-run Frequency Check Procedure : 															
8	Adjustment Location 【Main Board】 	Adjustment Location 【Main Board】 															
2 4	 <table> <tr> <th>No.</th><th>Part No.</th><th>Description</th></tr> <tr> <td>M101</td><td>1-4917-523-3</td><td>MOTOR ASSY (SPINDLE)</td></tr> </table>	No.	Part No.	Description	M101	1-4917-523-3	MOTOR ASSY (SPINDLE)	 <table> <tr> <th>No.</th><th>Part No.</th><th>Description</th></tr> <tr> <td>M101</td><td>X-4917-523-3</td><td>MOTOR ASSY (SPINDLE)</td></tr> <tr> <td>917</td><td>1-535-847-11</td><td>JUMPER, FILM (WITH TERMINAL)</td></tr> </table>	No.	Part No.	Description	M101	X-4917-523-3	MOTOR ASSY (SPINDLE)	917	1-535-847-11	JUMPER, FILM (WITH TERMINAL)
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CDP-C35/C201/C205/C305

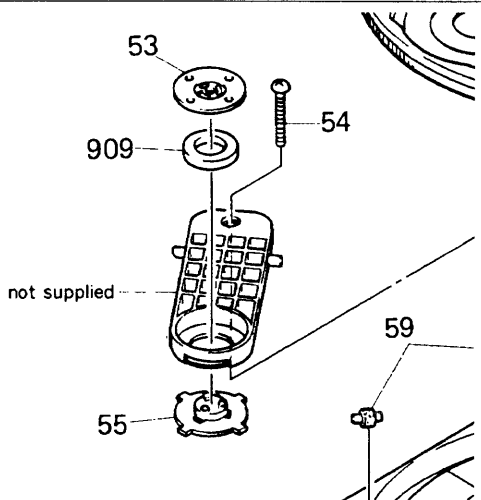
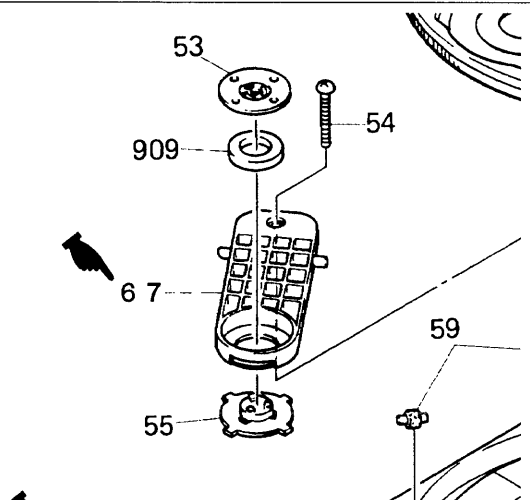
SONY SERVICE MANUAL

US Model
CDP-C35/C201/C205/C305
Canadian Model
AEP Model
E Model
Australian Model
CDP-C305

CORRECTION-2

Correct your service manual as shown below.

 : indicates corrected portion.

Page	INCORRECT	CORRECT
2 2	 not supplied	 67 *4-930-506-02 BRACKET (PRESS PULLEY)