CDP-S27/S107

SERVICE MANUAL

AEP Model
UK Model
E Model
CDP-S27:

US Model
AEP Model
CDP-S107:

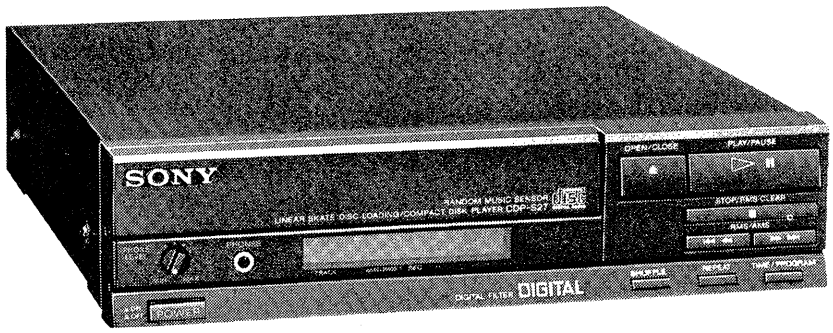


PHOTO: CDP-S27

SPECIFICATIONS

System	Compact disc digital audio system
Laser	Semiconductor laser (λ = 780 nm)
Laser output	Max. 44.6 μW 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	5 Hz – 20kHz ($^{+0.5}_{-2.0}$ dB)
Signal to noise ratio	More than 95 dB
Dynamic range	More than 90 dB
Harmonic distortion	Less than 0.05% (at 1 kHz)
Channel separation	More than 90 dB
Wow and flutter	Below measurable limit (±0.001% W. PEAK)

	Type	Output level	Load impedance
LINE OUT	Phono jack	2 V (50 kilohms)	more than 10 kilohms
HEAD-PHONES	Stereo minijack	4.5 mW (32 ohms)	—

General

	CDP-S27	CDP-S107
Power requirements	US MODEL: 120 V AC, 60 Hz UK MODEL: 240 V AC, 50 Hz AEP MODEL: 220 V AC, 50/60 Hz E MODEL: 110 – 120 and 220 – 240 V AC adjustable, 50/60 Hz	
Power consumption	12 W	
Dimensions (Approx.) (w/h/d)	215 × 53 × 228 mm (8 1/2 × 2 1/8 × 9 inches)	245 × 53 × 228 mm (9 5/8 × 2 1/8 × 9 inches)
	including projecting parts and controls	
Weight (Approx., net)	2.0 kg (4 lbs 7 oz)	
Supplied accessories	Connecting cord (2 phono plugs ↔ 2 phono plugs) (1) 8 cm CD single adaptor (1)	

使用時は添付資料も参照のこと
Refer to the accompanying documents

COMPACT DISC PLAYER

SONY®

FEATURES

- Program play for playing the selections in a desired order
- Shuffle play for playing the selections in a random order
- Repeat function for a single selection, the whole disc, program play, or shuffle play
- Easy-to-read display window shows the track number being played, elapsed playing time, and the remaining time

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.

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.

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 microampers). 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)

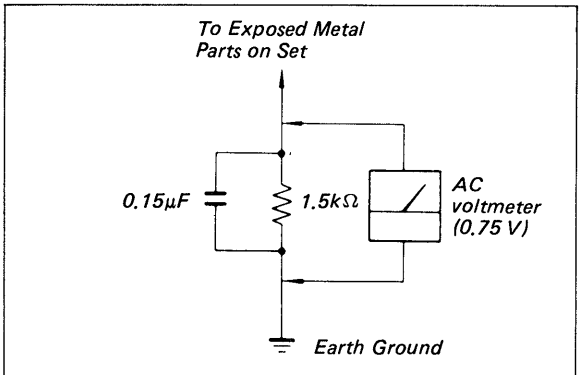
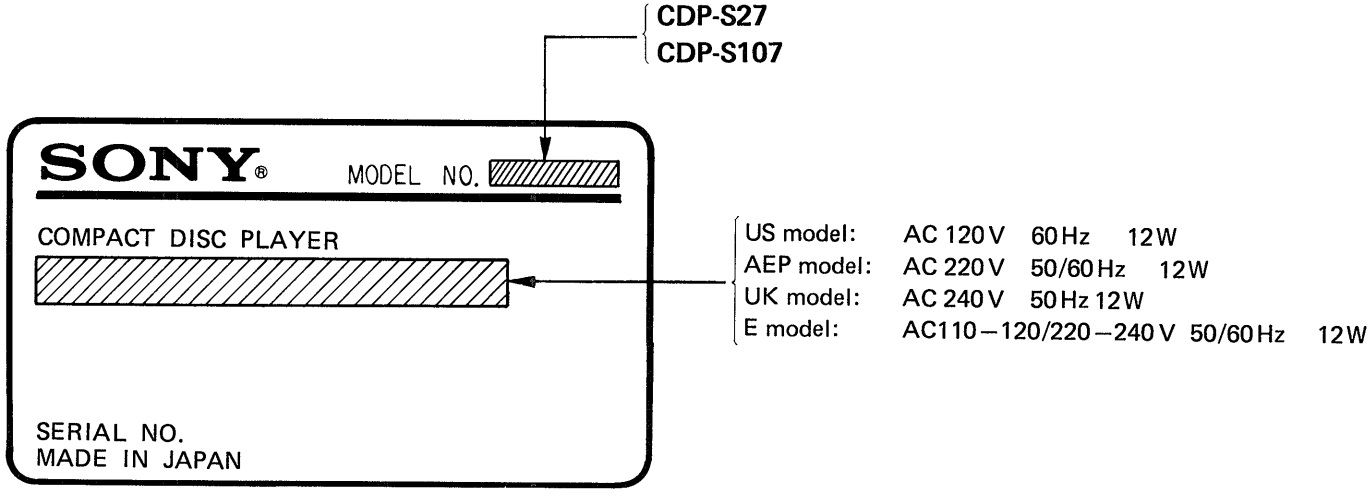


Fig. A. Using an AC voltmeter to check AC leakage.

TABLE OF CONTENTS

MODEL IDENTIFICATION

—Specification Label—



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: max. 44.6 μW*

     * This output is the value measured at a distance of about 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 Optiocal Pick-up Block (including APC borad).

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

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

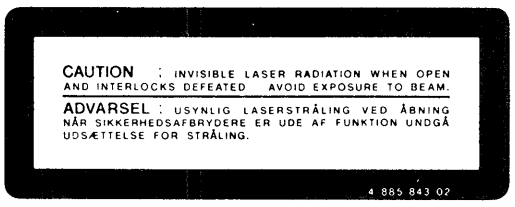
   - Klassifikation: Klasse IIIb.

2. Adskil aldrig den optiske pick-up enhed under service, og juster ikke APC kredsløbet (Automatic Power Control). Hvis APC kredsløbet (incl. laserdioden) 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

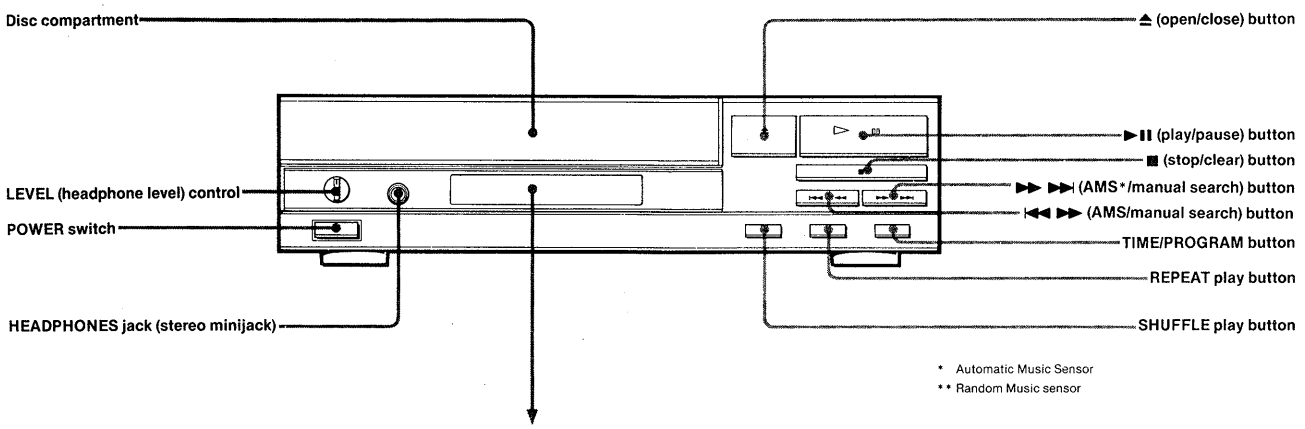


VAROITUS: Laite sisältää, laserdiodin, joka lähettää (näkymätöntä) silmille vaarallista lasersateilyä.

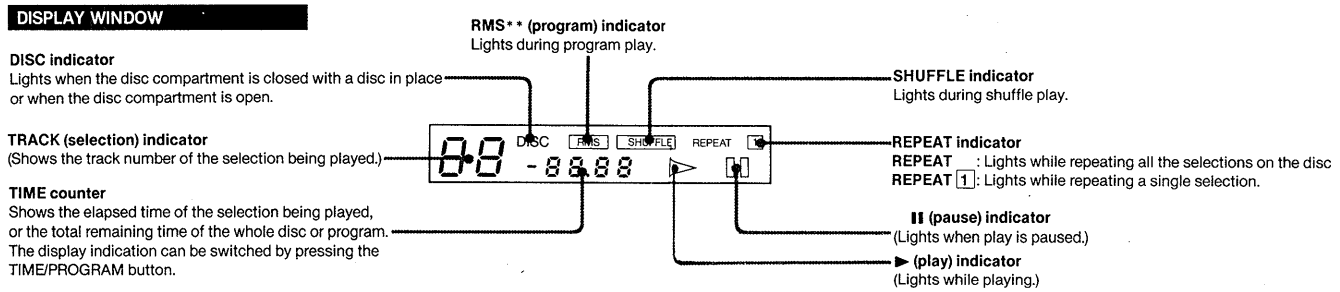
SECTION 1
GENERAL

1-1. LOCATION AND FUNCTION OF CONTROLS

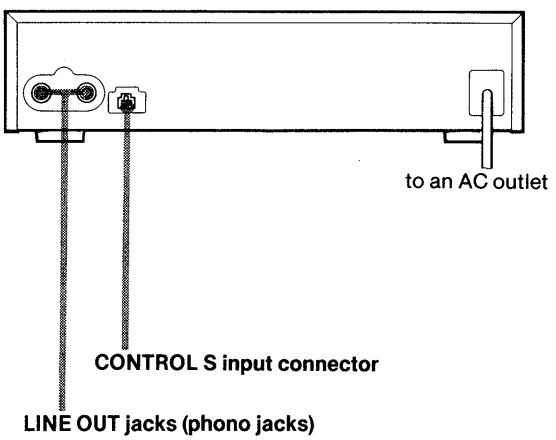
FRONT PANEL



DISPLAY WINDOW

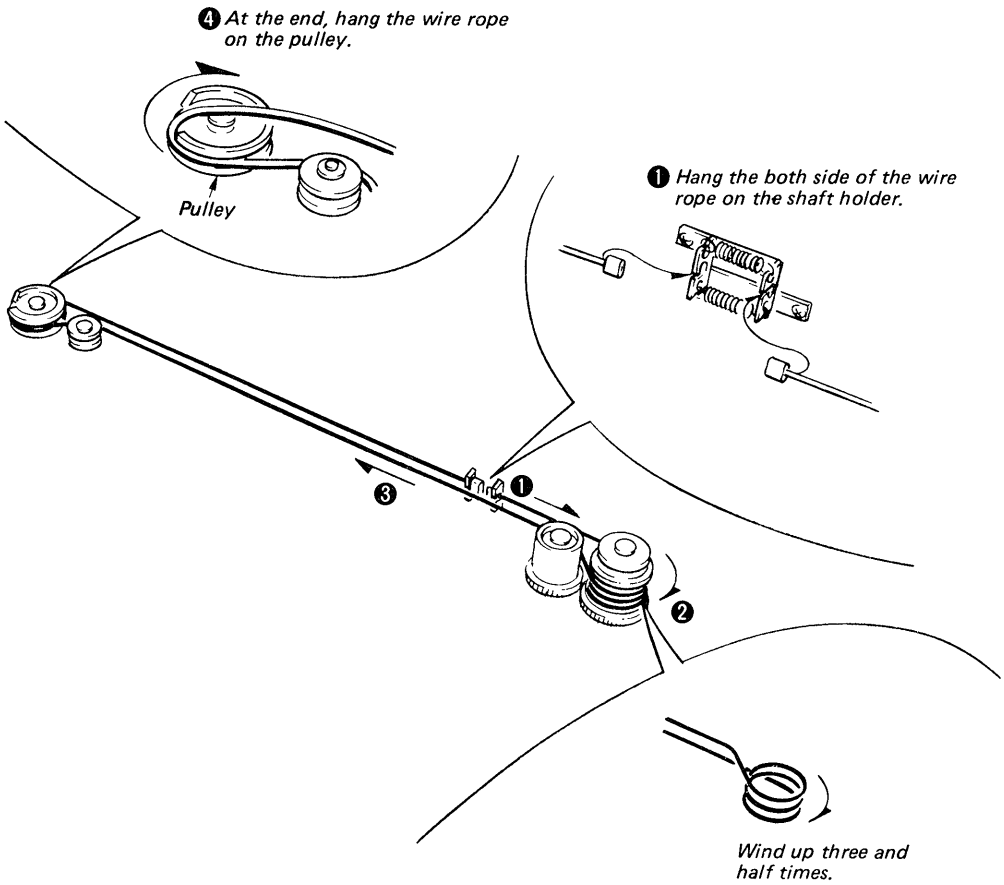


REAR PANEL



1-2. WIRE ROPE HANGING

Proceed from ❶ to ❹



SECTION 2
ADJUSTMENTS

ELECTRICAL ADJUSTMENTS

1. Perform adjustments in the order given.
2. Use YEDS-1, YEDS-18 disc unless otherwise indicated.
3. Use the oscilloscope with more than 10MΩ impedance.

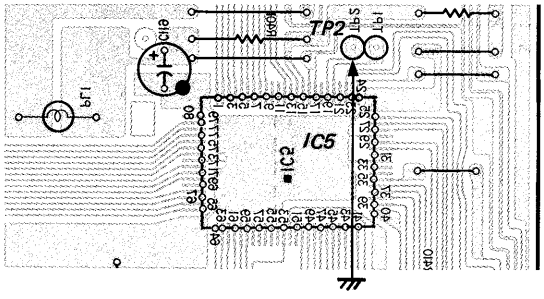
Adjustment Mode

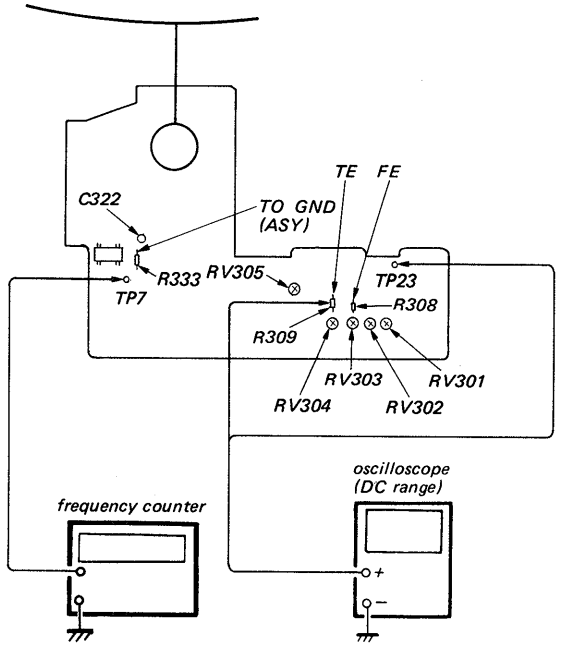
1. Connect main amp board test point ADJ and GND.
   This is to prevent the disc table from opening even though pits are not read, by making microcomputer IC5 pin (19) low.
2. Turn POWER switch on.
   (To reset microcomputer.)

   After adjustment, remove the lead wire connecting test points ADJ and GND.

Adjustment Location: main board

[MAIN BOARD] – *Component Side* –





RF PLL Adjustment

Procedure:

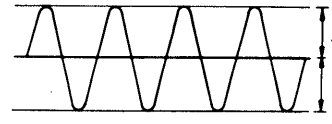
1. Turn POWER switch ON (stop mode).
2. Connect main board test point ASY and GND.
3. Connect the frequency counter to main board test points TP PLCK and TP GND.
4. Adjust main board RV305 so that reading on frequency counter is 4.3218 MHz ±30 kHz.
5. Reconnect lead wires connected in adjustment mode.
6. Put disc (YEDS-1) in and press ▷ PLAY button.
7. Confirm that reading on frequency counter is 4.3218 MHz.

E-F Balance Adjustment

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

Procedure:

1. Connect oscilloscope to test point TE.
2. Put set into adjustment mode. (See page 6.)
3. Turn RV304 fully clockwise (minimum).
4. Turn POWER switch on.
5. Put disc (YEDS-1 or YEDS-18) in and press ▶ ▮▮ button.
6. Adjust RV302 so that the traverse waveform is symmetrical above and below.
7. Set RV304 to its original position.
8. After adjustment, cancel the adjustment mode. (See page 5.)



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

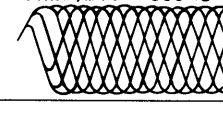
Focus Bias Adjustment

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

Procedure:

1. Connect oscilloscope to test points RF and GND.
2. Turn POWER switch on.
3. Put disc (YSDS-1) in and press ▶ ▮▮ button.
4. Adjust RV301 for an optimum waveform eye pattern or so that the peak is maximum. Optimum eye pattern means that shape "◇" can be clearly distinguished at the center of the waveform.

VOLT/DIV: 200mV
TIME/DIV: 500nS



REFERENCE

Focus/Tracking Gain Adjustment

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

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

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

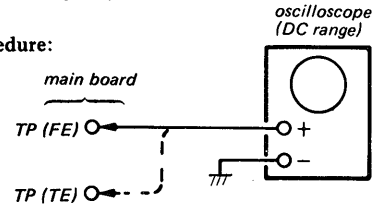
Symptoms \ Gain	Focus	Tracking
• The time until music starts becomes longer for STOP →▷PLAY or automatic selection (▶|) buttons pressed.	low	low or high
• Music does not start and disc continues to rotate for STOP→▷PLAY or automatic selection (▶| buttons pressed.)	–	low
• Disc table opens shortly after 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.

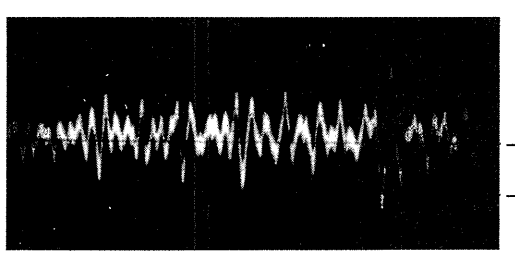
– Simple Adjustment –

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:



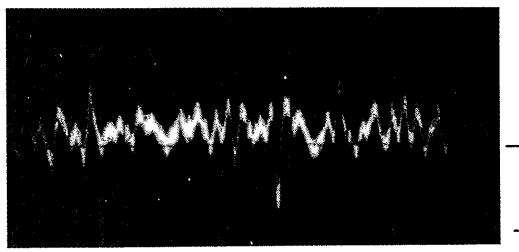
1. Keep the set horizontal.
   (If the set is not horizontal, this adjustment cannot be performed due to the gravity against the 2 axis device.)
2. Put set in adjustment mode. (See page 5.)
3. Insert disc (YEDS-1) and press ▷ PLAY button.
4. Connect oscilloscope to main board TP FE.
5. Adjustment RV303 so that the waveform is as shown in the figure below. (focus gain adjustment)



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

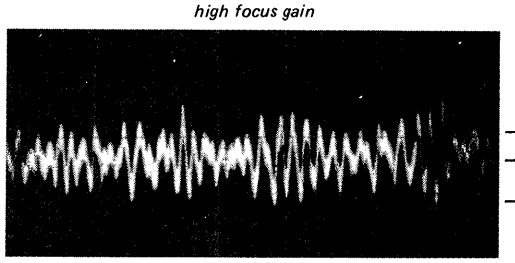
- Incorrent Examples (DC level changes more than on adjusted waveform)

low focus gain



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

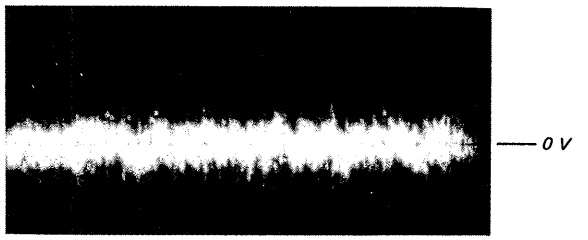
high focus gain



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

- See page 5 for Adjustment Location.

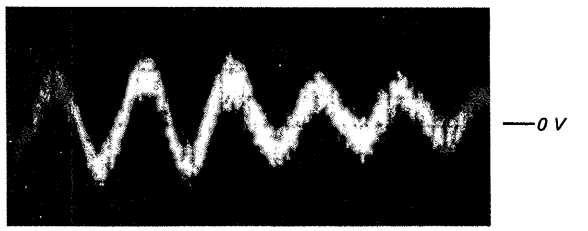
6. Connect oscilloscope to main board TP TE.
7. Adjust RV304 so that the waveform is as shown in the figure below. (tracking gain adjustment)



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

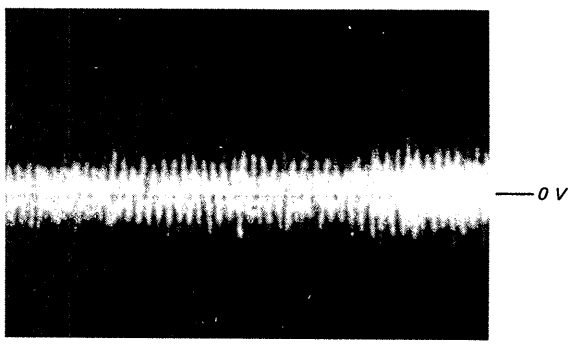
- Incorrect Examples (fundamental wave appears)

low tracking gain



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

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



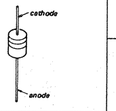
VOLT/DIV: 1 V
TIME/DIV: 2 mS

- See page 5 for Adjustment Location.

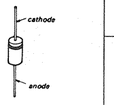
SEE ADDITIONAL INFORMATION

● SEMICONDUCTOR LEAD LAYOUTS

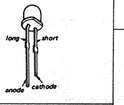
11ES2
RD3.3ES-B2
RD5.6ES-T2B2
US1060M-TPR



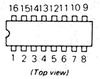
US1060M-TPR



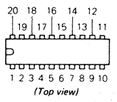
SEL2710W



M5290P

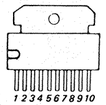


LC7880



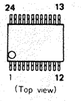
M5218L

TA7272P

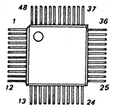


CXA1081M

LC3516AML-15

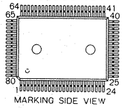


CXA1082Q



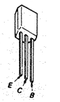
STA341M

CXD1130Q
M50930-431FP



2SB1013

2SC3399
2SC3901
BN1F4N



2SB1094-L
2SD1585-L

● SEMICONDUCTOR LOCATIONS

Ref. No.	Location	Ref. No.	Location
D101	B-3	IC6	F-1
D102	B-3	IC7	E-3
D103	B-3	IC8	B-2
D104	B-3	IC9	H-3
D201	D-1	IC10	I-3
D202	B-1	IC11	H-13
D203	C-1		
D204	D-1	Q1	B-2
D205	B-1	Q2	C-2
D206	E-2	Q3	C-3
D401	B-3	Q4	C-2
D403	B-3	Q5	D-1
		Q6	I-2
IC1	D-3	Q7	H-2
IC2	E-2	Q8	H-1
IC3	G-2	Q9	H-1
IC4	F-2	Q10	B-2
IC5	G-6	Q11	E-3

3-1. PRINTED WIRING BOARDS

【MAIN BOARD】

SEE ADDITIONAL INFORMATION

【TRANSFORMER BOARD】

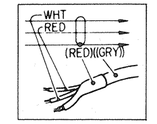
【SWITCH BOARD】

【HEADPHONE BOARD】

CDP-S27:E MODEL

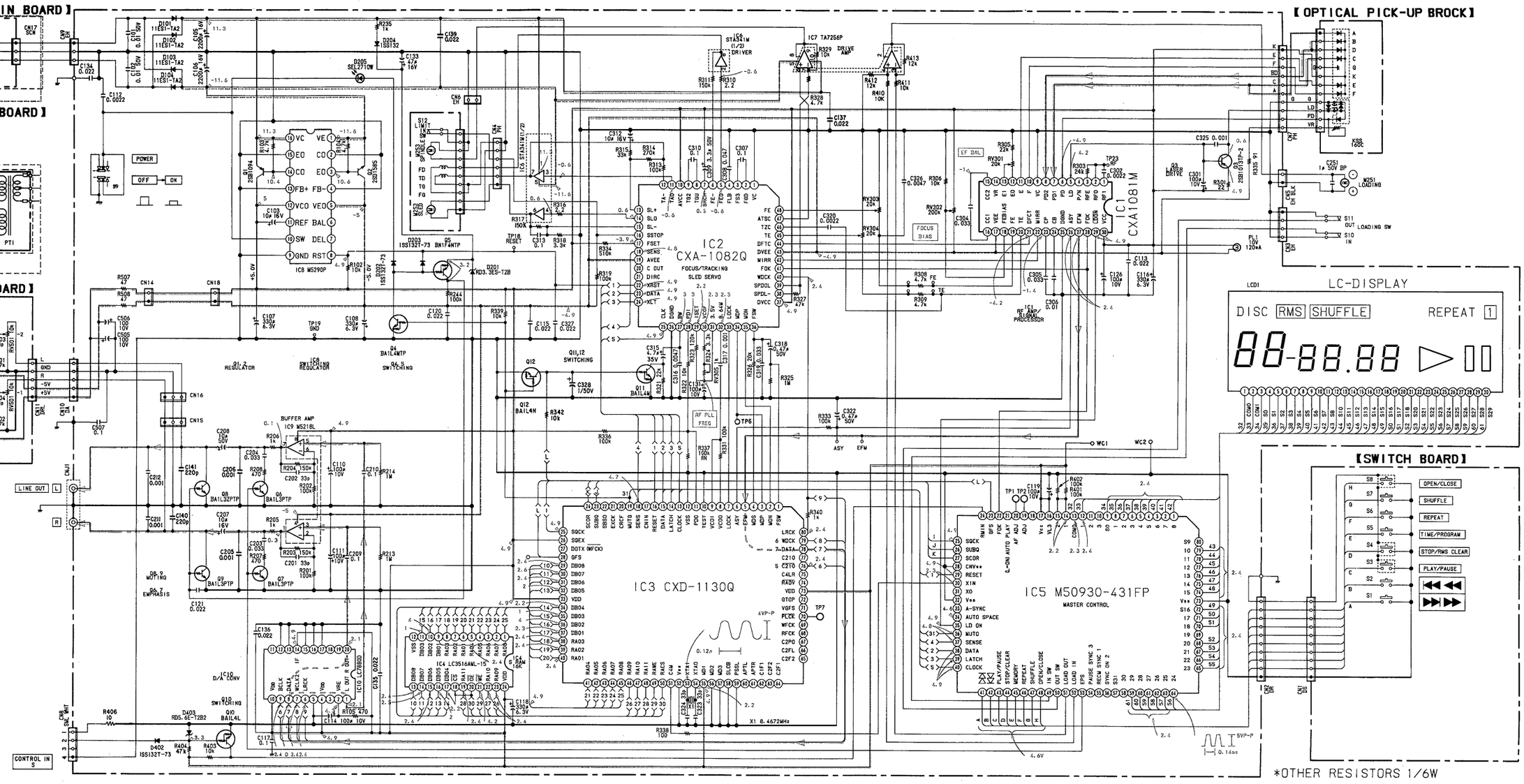
Note:

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



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

3-2. SCHEMATIC DIAGRAM



Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- ○ ——▷—— : 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 (detuned) conditions with a VOM (50 kΩ/V).
- ○ Voltage variations may be noted due to normal production tolerances.
- ○ Waveforms are taken to ground in PLAY mode by using oscilloscope.

- Switches:

Ref. No.	Switch	Position
S1	▶▶ ▶▶|	OFF
S2	|◀◀ ◀◀	OFF
S3	PLAY/PAUSE	OFF
S4	STOP/RMS CLEAR	OFF
S5	TIME/PROGRAM	OFF
S6	REPEAT	OFF
S7	SHUFFLE	OFF
S8	OPEN/CLOSE	OFF
S9	POWER STAND BY	OFF
S10	LOADING IN	OFF
S11	LOADING OUT	OFF
S12	LIMIT IN	OFF
S13	VOLTAGE SELECTOR	220–240V

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

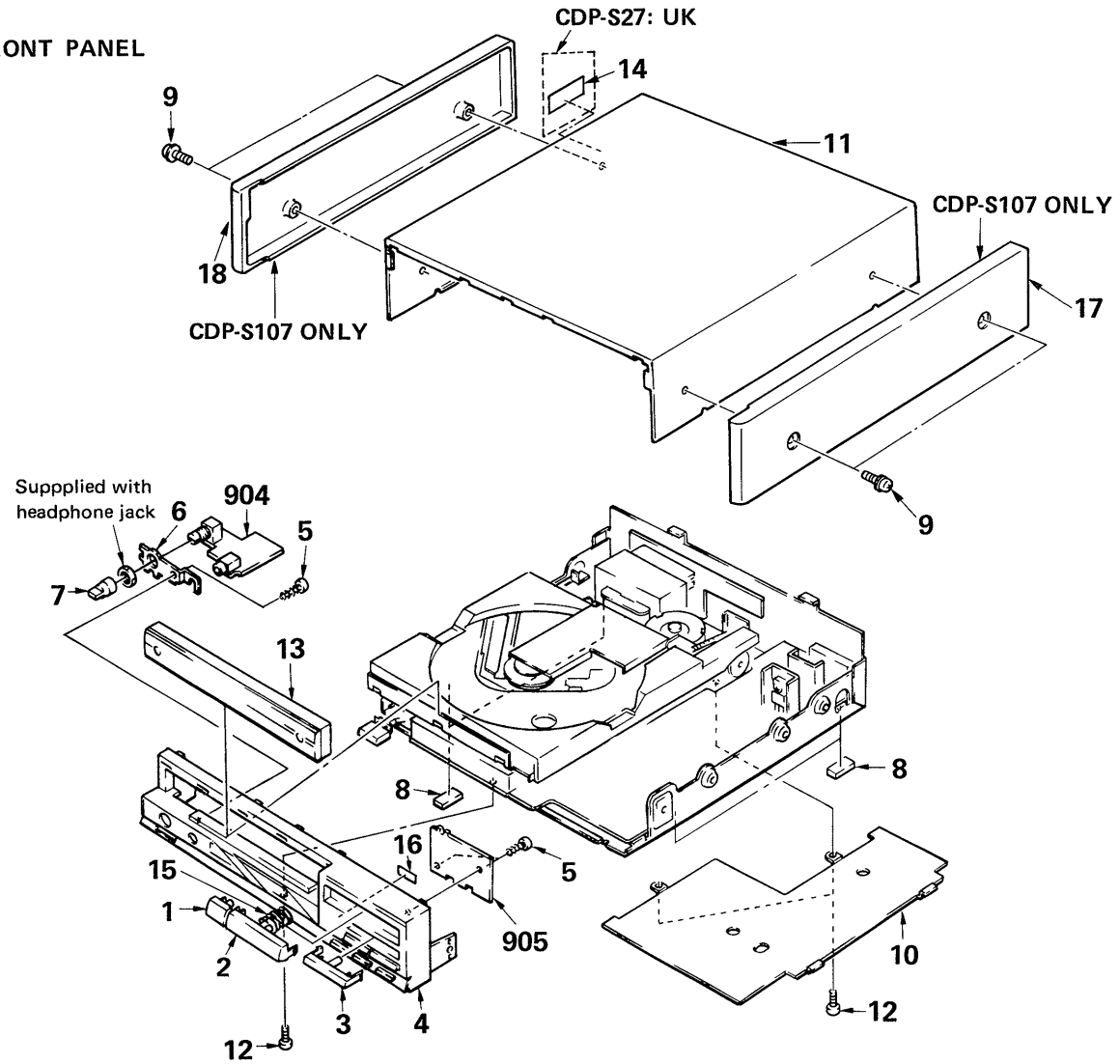
SECTION 4
EXPLODED VIEWS

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts Example:
  (RED) . . . KNOB, BALANCE (WHITE)
  ↑ Cabinet's Color ↑ Parts Color

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

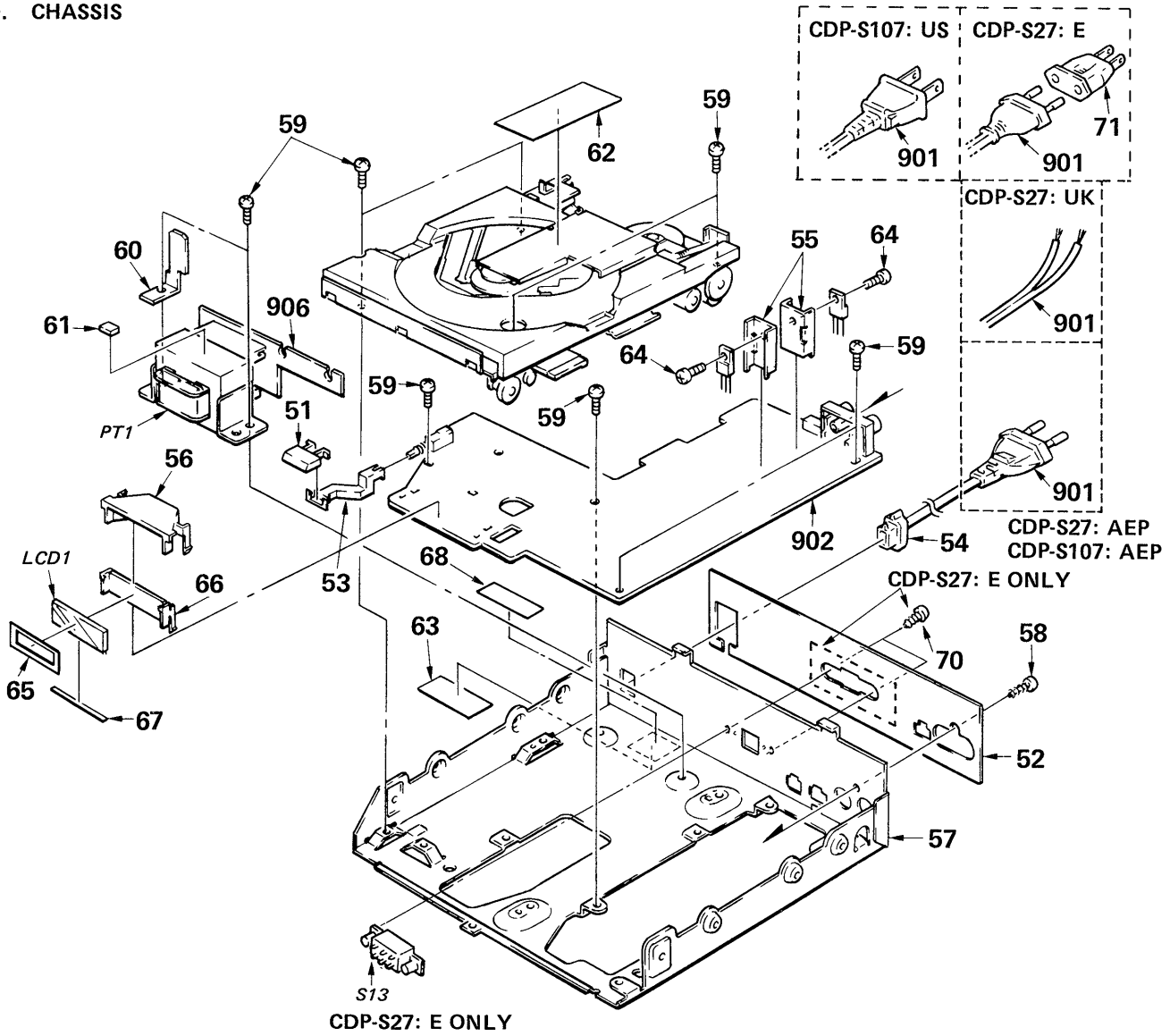
(1). FRONT PANEL



No.	Part No.	Description	Remarks
1	4-920-106-41	(CDP-S27:E) .....BUTTON (GE PRESET)	
	4-920-106-51	(EXCEPT CDP-S27:E) ..BUTTON (GE PRESET)	
2	4-919-838-11	(CDP-S27:E) .....BUTTON (PLAY)	
	4-919-838-21	(EXCEPT CDP-S27:E) ..BUTTON (PLAY)	
3	4-919-839-11	(EXCEPT CDP-S27:E) ..BUTTON (STOP)	
	4-919-839-21	(CDP-S27:E) .....BUTTON (STOP)	
4	X-4919-815-1	(EXCEPT CDP-S27:E) ..PANEL (CD) ASSY, FRONT	
	X-4919-817-1	(CDP-S27:E).....PANEL (CD) ASSY, FRONT	
5	7-685-646-79	SCREW +BVTP 3X8 TYPE 2 N-S	
6	*4-919-827-01	BRACKET (V•H)	
7	4-911-628-11	KNOB, VOLUME	
8	4-919-608-02	FOOT	
9	3-704-366-01	(CDP-S27) ....SCREW, (CASE) (M 3X8)	
	4-886-821-51	(CDP-S107) ...SCREW, (CASE) (M 3X14)	

No.	Part No.	Description	Remarks
10	*4-919-831-01	PLATE, BOTTOM	
11	4-919-842-11	CASE	
12	7-682-147-01	SCREW +BVTT 3X6 (S)	
13	X-4919-814-1	(EXCEPT CDP-S27:E) ..LID ASSY, TRAY	
	X-4919-816-1	(CDP-S27:E) .....LID ASSY, TRAY	
	X-4919-818-1	(CDP-S107) .....LID ASSY, TRAY	
14	3-703-079-21	(UK:CDP-S27) ..LABEL, CAUTION (BACK)	
15	4-919-854-01	SPRING (BUTTON), COMPRESSION	
16	3-849-226-00	CLOTH, UNWEAVED (25X6X0.5)	
17	4-922-759-01	(CDP-S107) ....PLATE (A-RIGHT), SIDE	
18	4-922-760-01	(CDP-S107) ....PLATE (A-LIGHT), SIDE	
904	*1-621-854-11	PC BOARD, HEADPHONE	
905	*1-621-853-11	PC BOARD, SWITCH	

(2). CHASSIS



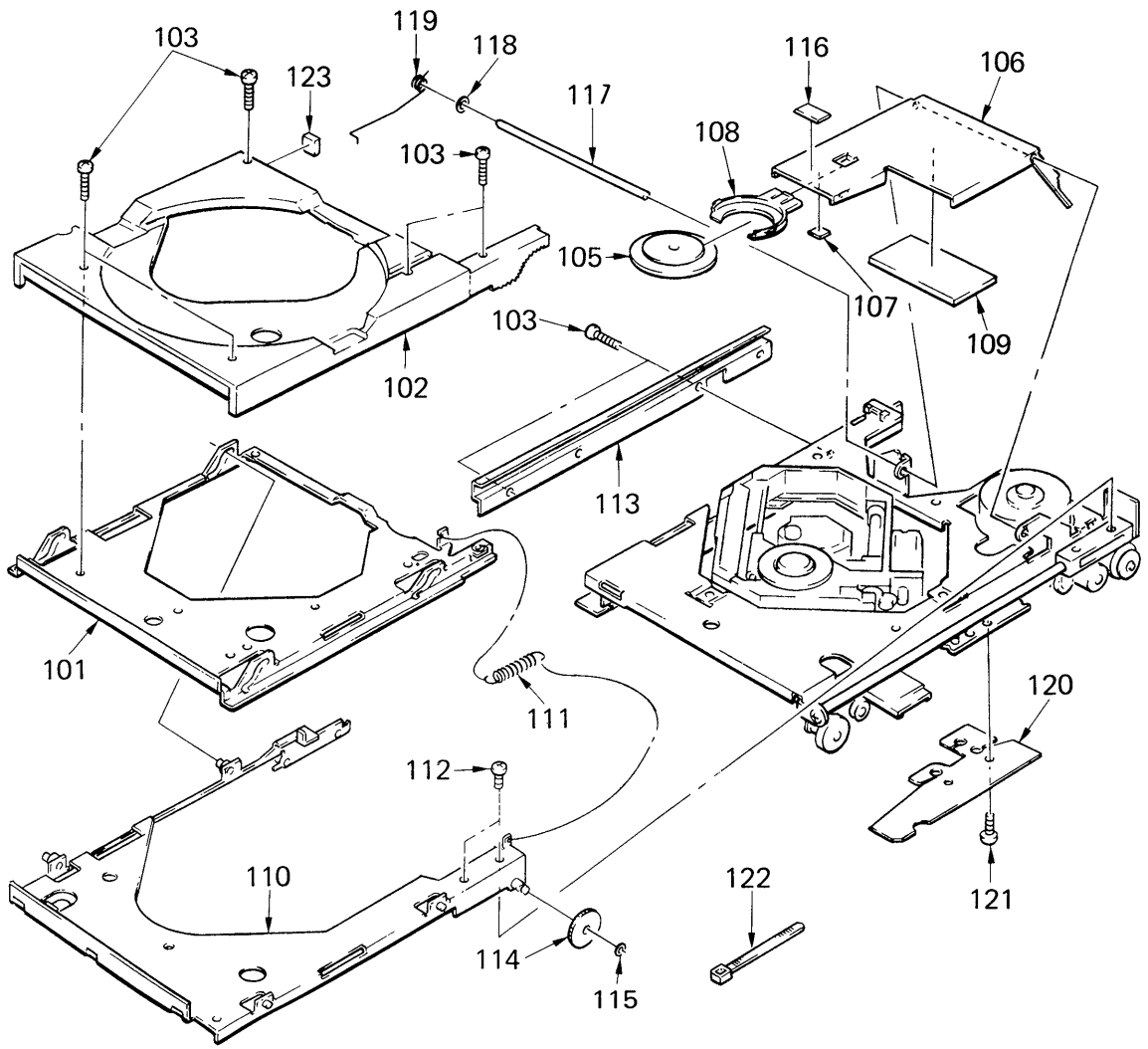
No.	Part No.	Description	Remarks
51	4-914-396-71	BUTTON (POWER)	
52	4-919-801-62	(CDP-S27:E,AEP CDP-S107:AEP) ..COVER, REAR	
	4-919-801-71	(CDP-S27:UK) .....COVER, REAR	
	4-919-801-82	(CDP-S107:AEP) .....COVER, REAR	
	4-919-801-91	(CDP-S107:US) .....COVER, REAR	
53	*4-919-834-01	JOINT	
54	*3-703-244-00	(EXCEPT CDP-S107:US) ..BUSHING (2104), CORD	
	*3-703-571-00	(CDP-S107:US) .....BUSHING (S) (4516), CORD	
55	*3-309-144-21	HEAT SINK	
56	*4-919-832-01	HOUSE, LAMP	
57	*4-919-841-01	CHASSIS (CD)	
58	7-685-646-79	SCREW +BVTP 3X8 TYPE 2 N-S	
59	7-682-147-01	SCREW +BVTT 3X6 (S)	
60	4-919-862-01	SHEET (POWER)	

No.	Part No.	Description	Remarks
61	9-911-840-XX	SPACER (B), RUBBER	
62	4-885-843-02	LABEL, CAUTION, LASER	
63	*4-885-838-01	LABEL, CLASS 1	
64	7-682-548-04	SCREW +BVTT 3X8 (S)	
65	*4-919-844-01	PLATE (C), ORNAMENTAL	
66	*4-919-833-01	ILLUMINATOR	
67	*4-919-843-01	SHEET (LCD)	
68	4-919-856-01	SHEET, INSULATING	
69	4-352-844-01	PIN, LEAD, COATING	
70	7-685-134-19	(CDP-S27:E) ...SCREW +P 2.6X8 TYPE2 NON-SLIT	
71	1-506-409-11	(CDP-S27:E) ...ADAPTOR, CONVERSION	
901	⚠.1-555-750-00	(CDP-S27:E,AEP CDP-S107:AEP)..CORD, POWER	
	⚠.1-556-035-00	(CDP-S27:UK) .....CORD, POWER	
	⚠.1-558-941-11	(CDP-S107:US) .....CORD, POWER (NONPOLAR, SPT-1)	
902	*A-4651-186-A	MOUNTED PCB, MAIN	
906	*1-622-246-11	PC BOARD, TRANSFORMER	
LCD1	1-807-821-11	DISPLAY PANEL, LIQUID CRYSTAL	
PT1	⚠.1-448-919-11	(CDP-S27:E) .....TRANSFORMER, POWER	
	⚠.1-448-920-11	(CDP-S27:AEP,UK CDP-S107:AEP)..TRANSFORMER, POWER	
	⚠.1-448-979-11	(CDP-S107:US) .....TRANSFORMER, POWER	
S13	⚠.1-570-046-21	(CDP-S27:E) ....SWITCH, VOLTAGE CHANGE	

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

SEE ADDITIONAL INFORMATION

(3). DISC TABLE



No.	Part No.	Description	Remarks
101	*4-919-824-01	TABLE, DISC	
102	4-919-826-01	GUIDE, DISK	
103	7-627-850-68	SCREW, PRECISION +P 1.4X4	
104	X-4919-810-1	LIMITER ASSY	
105	X-4919-811-1	PLATE ASSY, CHUCK	
106	4-913-265-01	ARM, CHUCK	
107	3-327-119-01	SHEET, THRUST	
108	4-913-248-01	GUIDE, CHUCK PLATE	
109	9-911-844-XX	SHEET, VIBRATION PROOF	
110	*X-4919-802-1	CHASSIS (MD) ASSY	
111	4-919-821-01	SPRING, TENSION	
112	3-317-552-61	SCREW (M1.7X2)	

No.	Part No.	Description	Remarks
113	*4-913-254-01	RAIL, GUIDE	
114	4-913-214-01	GEAR, S.D	
115	3-312-434-00	WASHER, SLIT	
116	9-911-844-XX	CUSHION	
118	3-318-236-01	WASHER, POLY, SLIT	
117	4-913-222-01	SHAFT, CHUCK ARM	
119	4-913-279-01	SPRING	
120	*4-919-853-01	STOPPER	
121	7-685-860-01	SCREW +BVTT 2.6X4 (S)	
122	*3-337-402-01	BAND, BINDING	
123	9-911-841-XX	CUSHION, RUBBER (R)	

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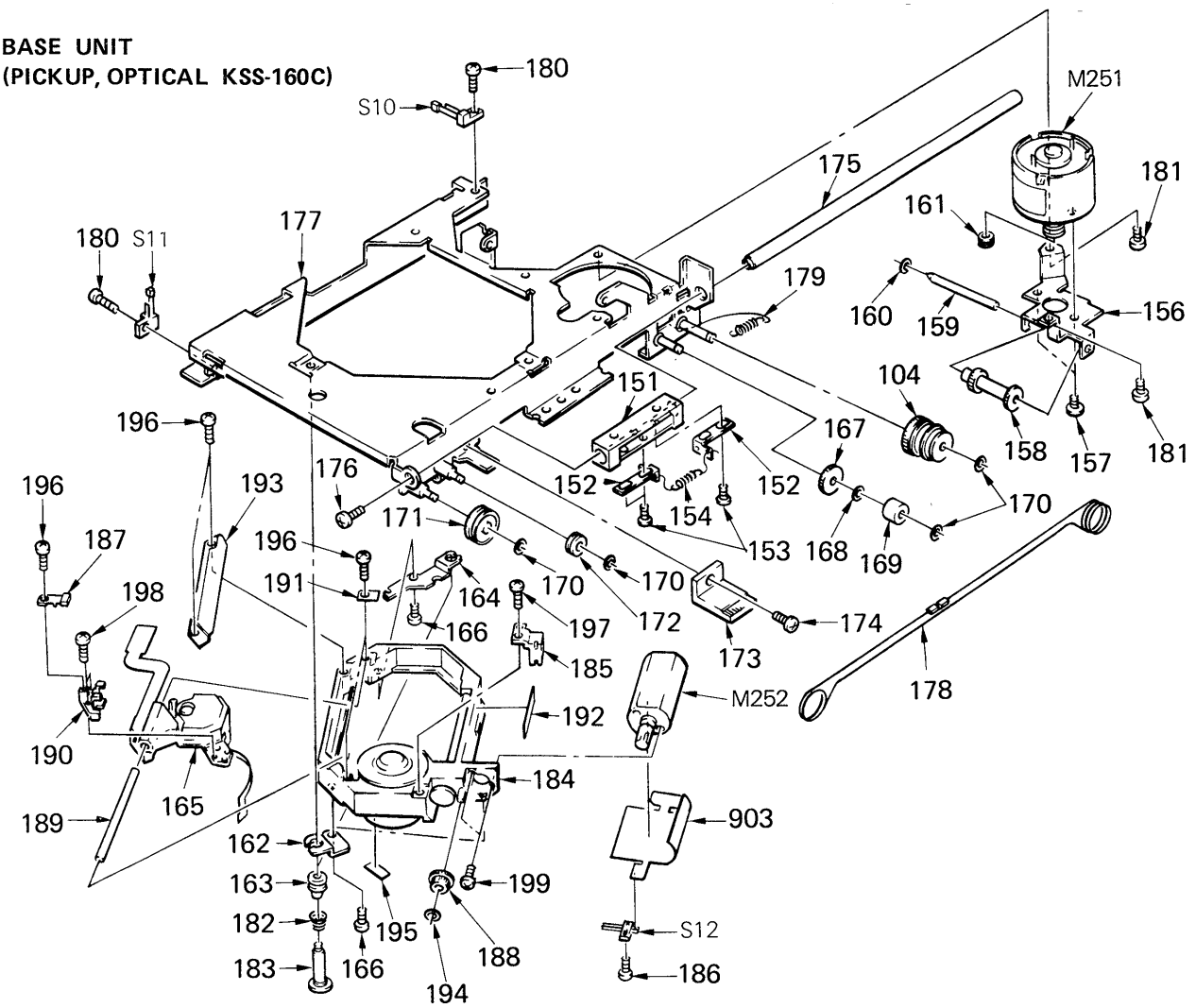
SEE ADDITIONAL INFORMATION

(4). BASE UNIT (PICKUP, OPTICAL KSS-160C)



No.	Part No.	Description	Remarks
151	X-4913-219-1	BEARING ASSY, SLIDE	
152	4-913-209-01	SLIDER, WT	
153	3-311-772-00	SHAFT (A), STOPPER	
154	3-578-277-00	SPRING, TENSION	
156	*4-919-803-01	BRACKET (MOTOR)	
157	4-885-599-00	SCREW, FITTING, REINFORCEMENT	
158	4-919-806-01	GEAR (DRIVING)	
159	*4-919-809-01	SHAFT (DRIVING)	
160	3-318-236-01	WASHER, POLY, SLIT	
161	2-622-801-01	RETAINER, THRUST	
162	*4-919-804-01	BRACKET (A)	
163	4-919-818-01	DAMPER	
164	*4-919-805-01	BRACKET (B)	
165	8-848-065-11	PICKUP, OPTICAL KSS-160C	
166	7-685-102-19	SCREW +P 2X4 TYPE2 NON-SLIT	
167	4-913-212-01	GEAR (B), DRIVING	
168	3-701-437-11	WASHER	
169	4-913-213-01	PULLEY (C)	
170	3-312-434-00	WASHER, SLIT	
171	4-913-211-01	PULLEY (A)	
172	3-304-108-00	PULLEY	
173	4-919-822-01	RACK, SD	
174	7-627-850-68	SCREW, PRECISION +P 1.4X4	
175	*4-913-210-01	SHAFT, SLIDE	
176	7-621-255-10	SCREW +B 2X3	
177	*X-4919-801-1	TABLE ASSY, SLIDE	

No.	Part No.	Description	Remarks
178	4-913-276-01	ROPE, WIRE	
179	3-570-556-00	SPRING, TENSION	
180	3-703-502-41	SCREW	
181	7-621-259-25	SCREW +BVTT 2.6X4 (S)	
182	4-919-820-01	SPRING, COMPRESSION	
183	4-919-819-01	SCREW, STEP	
184	X-2640-620-1	SCREW BLOCK ASSY, MD SLED (M253)	
185	X-2640-611-1	RETAINER ASSY, THRUST	
186	2-640-620-03	SCREW (B) (1.4X3), TAPPING	
187	2-640-622-01	NUT, FEED	
188	2-640-625-01	GEAR (B)	
189	2-640-632-01	SHAFT, GUIDE	
190	2-640-638-01	BEARING, FEED GUIDE	
191	2-640-645-01	RETAINER, GUIDE SHAFT	
192	*2-640-646-12	LABEL	
193	*2-640-647-01	COVER, MD	
194	3-321-813-01	WASHER, COTTER POLYETHYLENE	
195	3-831-441-11	CUSHION (B)	
196	7-685-102-19	SCREW +P 2X4 TYPE2 NON-SLIT	
197	7-685-103-19	SCREW +P 2X5 TYPE2 NON-SLIT	
198	7-627-852-17	+P 1.7X4	
199	7-627-553-37	PRECISION SCREW +P 2X3 TYPE 3	
903	1-621-936-12	PC BOARD, MOT-AU FLEXIBLE	
M251	X-4919-809-1	MOTOR ASSY	
M252	X-2640-619-1	GEAR ASSY, SLED MOTOR	
S10	1-553-226-00	SWITCH, LEAF	
S11	1-553-226-00	SWITCH, LEAF	
S12	1-554-938-11	SWITCH, LEAF	

SECTION 5
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: 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 mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
901	⚠.1-555-750-00	(CDP-S27:E,AEP CDP-S107:AEP) ..CORD, POWER			
	⚠.1-556-035-00	(CDP-S27:UK) .....CORD, POWER			
	⚠.1-558-941-11	(CDP-S107:US) .....CORD, POWER (NONPOLAR, SPT-1)			
902	*A-4651-186-A	MOUNTED PCB, MAIN			
903	1-621-936-12	PC BOARD, MOT-AU FLEXIBLE			
904	*1-621-854-11	PC BOARD, HEADPHONE			
905	*1-621-853-11	PC BOARD, SWITCH			
906	*1-622-246-11	PC BOARD, TRANSFORMER			
C101	1-136-153-00	FILM	0.01MF	5%	50V
C102	1-136-153-00	FILM	0.01MF	5%	50V
C103	1-124-462-00	ELECT	10MF	20%	16V
C105	1-124-556-11	ELECT	2200MF	20%	16V
C106	1-124-556-11	ELECT	2200MF	20%	16V
C107	1-124-442-00	ELECT	330MF	20%	6.3V
C108	1-124-442-00	ELECT	330MF	20%	6.3V
C110	1-124-443-00	ELECT	100MF	20%	10V
C111	1-124-443-00	ELECT	100MF	20%	10V
C112	1-161-375-00	CERAMIC	0.0022MF	20%	16V
C113	1-161-494-00	CERAMIC	0.022MF		25V
C114	1-124-443-00	ELECT	100MF	20%	10V
C115	1-161-494-00	CERAMIC	0.022MF		25V
C116	1-124-442-00	ELECT	330MF	20%	6.3V
C117	1-136-165-00	FILM	0.1MF	5%	50V
C118	1-124-442-00	ELECT	330MF	20%	6.3V
C119	1-124-443-00	ELECT	100MF	20%	10V
C120	1-161-494-00	CERAMIC	0.022MF		25V
C121	1-161-494-00	CERAMIC	0.022MF		25V
C126	1-124-443-00	ELECT	100MF	20%	10V
C131	1-124-443-00	ELECT	100MF	20%	10V
C133	1-124-477-11	ELECT	47MF	20%	16V
C134	1-161-494-00	CERAMIC	0.022MF		25V
C135	1-161-494-00	CERAMIC	0.022MF		25V
C136	1-161-494-00	CERAMIC	0.022MF		25V
C137	1-161-494-00	CERAMIC	0.022MF		25V
C139	1-162-294-31	CERAMIC	0.001MF	10%	50V
C140	1-162-286-31	CERAMIC	220PF	10%	50V
C141	1-162-286-31	CERAMIC	220PF	10%	50V
C142	1-161-494-00	CERAMIC	0.022MF		25V
C201	1-162-211-31	CERAMIC	33PF	5%	50V
C202	1-162-211-31	CERAMIC	33PF	5%	50V
C203	1-136-159-00	FILM	0.033MF	5%	50V
C204	1-136-159-00	FILM	0.033MF	5%	50V
C205	1-162-294-31	CERAMIC	0.001MF	10%	50V
C206	1-162-294-31	CERAMIC	0.001MF	10%	50V
C207	1-124-462-00	ELECT	10MF	20%	16V
C208	1-124-462-00	ELECT	10MF	5%	16V
C209	1-136-165-00	FILM	0.1MF	5%	50V
C210	1-136-165-00	FILM	0.1MF	5%	50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C211	1-162-294-31	CERAMIC	0.001MF	10%	50V
C212	1-162-294-31	CERAMIC	0.001MF	10%	50V
C251	1-124-611-00	CAP,ELECT	1MF		50V
C301	1-124-443-00	ELECT	100MF	20%	10V
C302	1-161-375-00	CERAMIC	0.0022MF	20%	16V
C304	1-136-159-00	FILM	0.033MF	5%	50V
C305	1-136-159-00	FILM	0.033MF	5%	50V
C306	1-136-153-00	FILM	0.01MF	5%	50V
C307	1-136-165-00	FILM	0.1MF	5%	50V
C308	1-136-161-00	FILM	0.047MF	5%	50V
C309	1-123-382-00	ELECT	3.3MF	20%	50V
C310	1-136-165-00	FILM	0.1MF	5%	50V
C312	1-124-462-00	ELECT	10MF	20%	16V
C313	1-136-165-00	FILM	0.1MF	5%	50V
C315	1-124-245-00	ELECT	4.7MF	20%	35V
C316	1-161-377-00	CERAMIC	0.0047MF	20%	16V
C317	1-162-294-31	CERAMIC	0.001MF	10%	50V
C318	1-124-465-00	ELECT	0.47MF	20%	50V
C319	1-136-159-00	FILM	0.033MF	5%	50V
C320	1-161-375-00	CERAMIC	0.0022MF	20%	16V
C322	1-124-465-00	ELECT	0.47MF	20%	50V
C323	1-162-211-31	CERAMIC	33PF	5%	50V
C324	1-162-211-31	CERAMIC	33PF	5%	50V
C325	1-162-294-31	CERAMIC	0.001MF	10%	50V
C326	1-161-377-00	CERAMIC	0.0047MF	20%	16V
C327	1-161-494-00	CERAMIC	0.022MF		25V
C328	1-123-611-00	ELECT	1MF	20%	50V
C401	1-161-379-00	CERAMIC	0.01MF	20%	16V
C501	1-161-379-00	CERAMIC	0.01MF	20%	16V
C502	1-161-379-00	CERAMIC	0.01MF	20%	16V
C503	1-162-211-31	CERAMIC	33PF	5%	50V
C504	1-162-211-31	CERAMIC	33PF	5%	50V
C505	1-124-584-00	ELECT	100MF	20%	10V
C506	1-124-584-00	ELECT	100MF	20%	10V
C507	1-136-165-00	FILM	0.1MF	5%	50V
C515	1-162-290-31	CERAMIC	470PF	10%	50V
C516	1-162-290-31	CERAMIC	470PF	10%	50V
CN2	*1-564-666-11	PIN, CONNECTOR 10P			
CN3	*1-564-507-11	PLUG, CONNECTOR 4P			
CN4	*1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P			
CN5	*1-564-505-11	PLUG, CONNECTOR 2P			
CN6	*1-564-505-21	PLUG, CONNECTOR 2P			
CN7	*1-564-712-11	PIN, CONNECTOR (SMALL TYPE) 10P			
CN8	1-564-980-11	PIN, CONNECTOR 4P			
CN9	*1-564-506-11	PLUG, CONNECTOR 3P			
CN11	*1-564-498-11	PIN, CONNECTOR 5P			

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ELECTRICAL PARTS

Ref.No.	Part No.	Description
CNJ1	*1-562-999-41	JACK, PIN 2P
D101	8-719-200-82	DIODE 11ES2
D102	8-719-200-82	DIODE 11ES2
D103	8-719-200-82	DIODE 11ES2
D104	8-719-200-82	DIODE 11ES2
D201	8-719-109-66	DIODE RD3.3ES-B2
D202	8-719-000-26	DIODE US1060M-TPR
D203	8-719-000-26	DIODE US1060M-TPR
D204	8-719-000-26	DIODE US1060M-TPR
D205	8-719-302-94	DIODE SEL2710W
D401	8-719-108-26	DIODE 1SS101
D402	8-719-000-26	DIODE US1060M-TPR
D403	8-719-109-89	DIODE RD5.6ES-T2B2
IC1	8-752-030-93	IC CXA1081M
IC2	8-752-030-94	IC CXA1082Q
IC3	8-752-322-32	IC CXD1130Q
IC4	8-759-802-74	IC LC3516AML-15
IC5	8-759-604-62	IC M50930-431FP
IC6	8-759-303-90	IC STA341M
IC7	8-759-207-05	IC TA7272P
IC8	8-759-604-03	IC M5290P
IC9	8-759-600-02	IC M5218L
IC10	8-759-803-64	IC LC7880
IC11	8-759-600-02	IC M5218L
J501	1-562-917-11	JACK (SMALL TYPE DIA. 3.5)
LCD1	1-807-821-11	DISPLAY PANEL, LIQUID CRYSTAL
M251	X-4919-809-1	MOTOR ASSY
M252	X-2640-619-1	SLED MOTOR
M253	X-2640-620-1	SPINDLE MOTOR
PT1	⚠.1-448-919-11	(CDP-S27:E) ..... TRANSFORMER, POWER
	⚠.1-448-920-11	(CDP-S27:AEP,UK CDP-S107:AEP).. TRANSFORMER, POWER
	⚠.1-448-979-11	(CDP-S107:US) ..... TRANSFORMER, POWER
PL1	1-518-623-11	LAMP, PILOT
Q1	8-729-111-67	TRANSISTOR 2SB1094-L
Q2	8-729-107-25	TRANSISTOR 2SD1585-L
Q3	8-729-801-83	TRANSISTOR 2SB1013
Q4	8-729-806-38	TRANSISTOR 2SC3399
Q5	8-729-115-17	TRANSISTOR BN1F4N
Q6	8-729-806-26	TRANSISTOR 2SC3901
Q7	8-729-806-26	TRANSISTOR 2SC3901
Q8	8-729-806-26	TRANSISTOR 2SC3901
Q9	8-729-806-26	TRANSISTOR 2SC3901
Q10	8-729-115-84	TRANSISTOR BA1L4L
Q11	8-729-806-38	TRANSISTOR 2SC3399
Q12	8-729-806-38	TRANSISTOR 2SC3399

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R102	1-249-429-11	CARBON	10K	5%	1/4W
R103	1-249-425-11	CARBON	4.7K	5%	1/4W
R104	1-249-425-11	CARBON	4.7K	5%	1/4W
R105	1-249-413-11	CARBON	470	5%	1/4W
R201	1-249-441-11	CARBON	100K	5%	1/4W
R202	1-249-441-11	CARBON	100K	5%	1/4W
R203	1-247-883-00	CARBON	150K	5%	1/4W
R204	1-247-883-00	CARBON	150K	5%	1/4W
R205	1-249-417-11	CARBON	1K	5%	1/4W
R206	1-249-417-11	CARBON	1K	5%	1/4W
R207	1-249-413-11	CARBON	470	5%	1/4W
R208	1-249-413-11	CARBON	470	5%	1/4W
R213	1-215-493-00	CARBON	1M	5%	1/4W
R214	1-215-493-00	CARBON	1M	5%	1/4W
R235	1-249-417-11	CARBON	1K	5%	1/4W
R244	1-249-441-11	CARBON	100K	5%	1/4W
R301	1-214-092-00	METAL	22	1%	1/4W
R303	1-215-454-00	CARBON	24K	5%	1/4W
R305	1-249-433-11	CARBON	22K	5%	1/4W
R306	1-249-429-11	CARBON	10K	5%	1/4W
R308	1-249-425-11	CARBON	4.7K	5%	1/4W
R309	1-249-425-11	CARBON	4.7K	5%	1/4W
R310	1-249-385-11	CARBON	2.2	5%	1/4W
R311	1-247-883-00	CARBON	150K	5%	1/4W
R313	1-249-441-11	CARBON	100K	5%	1/4W
R314	1-215-479-00	CARBON	270K	5%	1/4W
R315	1-249-435-11	CARBON	33K	5%	1/4W
R316	1-249-385-11	CARBON	2.2	5%	1/4W
R317	1-247-883-00	CARBON	150K	5%	1/4W
R318	1-249-423-11	CARBON	3.3K	5%	1/4W
R319	1-249-441-11	CARBON	100K	5%	1/4W
R321	1-249-433-11	CARBON	22K	5%	1/4W
R322	1-249-429-11	CARBON	10K	5%	1/4W
R323	1-247-881-00	CARBON	120K	5%	1/4W
R324	1-249-423-11	CARBON	3.3K	5%	1/4W
R325	1-215-493-00	CARBON	1M	5%	1/4W
R326	1-215-452-00	CARBON	20K	5%	1/4W
R327	1-249-437-11	CARBON	47K	5%	1/4W
R328	1-249-425-11	CARBON	4.7K	5%	1/4W
R329	1-249-429-11	CARBON	10K	5%	1/4W
R331	1-249-441-11	CARBON	100K	5%	1/4W
R333	1-249-441-11	CARBON	100K	5%	1/4W
R334	1-215-486-00	CARBON	510K	5%	1/4W
R335	1-215-396-00	CARBON	91	5%	1/4W
R336	1-215-469-00	METAL	100K	1%	1/6W

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

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R337	1-215-469-00	METAL	100K	1%	1/6W
R338	1-249-405-11	CARBON	100	5%	1/4W
R339	1-249-429-11	CARBON	10K	5%	1/4W
R340	1-249-417-11	CARBON	1K	5%	1/4W
R342	1-249-429-11	CARBON	10K	5%	1/4W
R343	1-246-449-25	CARBON	100	5%	1/4W
R401	1-249-441-11	CARBON	100K	5%	1/4W
R402	1-249-441-11	CARBON	100K	5%	1/4W
R403	1-249-429-11	CARBON	10K	5%	1/4W
R404	1-249-437-11	CARBON	47K	5%	1/4W
R405	1-249-405-11	CARBON	100	5%	1'4W
R406	1-249-393-11	CARBON	10	5%	1/4W
R410	1-249-429-11	CARBON	10K	5%	1/4W
R411	1-249-429-11	CARBON	10K	5%	1/4W
R412	1-249-430-11	CARBON	12K	5%	1/4W
R413	1-249-430-11	CARBON	12K	5%	1/4W
R501	1-249-425-11	CARBON	4.7K	5%	1/4W
R502	1-249-425-11	CARBON	4.7K	5%	1/4W
R503	1-249-429-11	CARBON	10K	5%	1/4W
R504	1-249-429-11	CARBON	10K	5%	1/4W
R505	1-249-405-11	CARBON	100	5%	1/4W
R506	1-249-405-11	CARBON	100	5%	1/4W
R507	1-249-401-11	CARBON	47	5%	1/4W
R508	1-249-401-11	CARBON	47	5%	1/4W
RV301	1-237-194-11	RES, ADJ, CARBON 20K			
RV302	1-237-197-11	RES, ADJ, CARBON 200K			
RV303	1-237-194-11	RES, ADJ, CARBON 20K			
RV304	1-237-194-11	RES, ADJ, CARBON 20K			
RV305	1-228-990-00	RES, ADJ, METAL GLAZE 1K			
RV501	1-237-650-11	RES, VAR, CARBON 10K/10K (PHONE LEVEL)			
S1	1-554-303-21	SWITCH, KEY BOARD (▶▶ ▶▶|)			
S2	1-554-303-21	SWITCH, KEY BOARD (|◀◀ ◀◀)			
S3	1-554-303-21	SWITCH, KEY BOARD (PLAY/PAUSE)			
S4	1-554-303-21	SWITCH, KEY BOARD (STOP/RMS/CLEAR)			
S5	1-554-303-21	SWITCH, KEY BOARD (TIME/PROGRAM)			
S6	1-554-303-21	SWITCH, KEY BOARD (REPEAT)			
S7	1-554-303-21	SWITCH, KEY BOARD (SHUFFLE)			
S8	1-554-303-21	SWITCH, KEY BOARD (OPEN/CLOSE)			
S9	1-554-261-00	SWITCH, PUSH (1 KEY)(POWER)			
S10	1-553-226-00	SWITCH, LEAF (IN LOADING)			
S11	1-553-226-00	SWITCH, LEAF (OUT LOADING)			
S12	1-554-938-11	SWITCH, LEAF (LIMIT IN SWITCH)			
S13	⚠1-570-046-21	(CDP-S27:E) ...SWITCH, VOLTAGE CHANGE			
X1	1-567-768-21	VIBRATOR, CRYSTAL (8.4672MHz)			

ACCESSORY & PACKING METERIAL

Part No.	Description
1-558-543-11	CORD, CONNECTION
2-117-234-01	8 CM SINGLE ADAPTOR
3-701-622-01	BAG, POLYETHYLENE
3-701-625-00	BAG, POLYETHYLENE
3-703-390-01	(CDP-S107:US) ..INSTRUCTION
3-769-907-11	MANUAL, INSTRUCTION
3-769-907-21	(CDP-S107:US) .....MANUAL, INSTRUCTION
3-769-907-41	(CDP-S27:AEP CDP-S107:AEP) ..MANUAL, INSTRUCTION
3-795-629-11	(CDP-S27:AEP CDP-S107:AEP) ..INSTRUCTION
3-849-119-00	BAG, PROTECTION
4-911-686-01	CUSHION (LEFT)
4-911-687-01	CUSHION (RIGHT)
4-919-846-11	(EXCEPT CDP-S107:AEP,US) ...INDIVIDUAL CARTON
4-919-868-00	(CDP-S107:AEP,US) .....INDIVIDUAL CARTON
4-919-867-01	PASTE-BOARD

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

Troubleshooting Guide

The following checks will assist in the correction of most problems which you may encounter with your unit. Should any problem persist after you have made these checks, consult your nearest Sony service facility. Before going through the check list below, first refer back to the connection and operating procedures.

Symptom	Cause	Remedy
Play does not begin.	The disc is incorrectly inserted.	Insert the disc correctly.
	The disc is extremely dirty.	Clean the disc.
	The disc is inserted upside down.	Insert the disc with the label surface up.
	The ▶ II button has been pressed.	Press the ▶ II button again to release pause.
	Moisture condensation.	Leave the player turned on for about an hour.
No audio from one or both channels	Incorrect connections	Connect properly.

9-953-197-11
(Including 9-953-197-91)

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Audio Group

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CDP-S27/S107

SONY®

SERVICE MANUAL

REVISED

AEP Model
UK Model
E Model
CDP-S27:
US Model
AEP Model
CDP-S107:

SUPPLEMENT-1

File this supplement with the service manual.

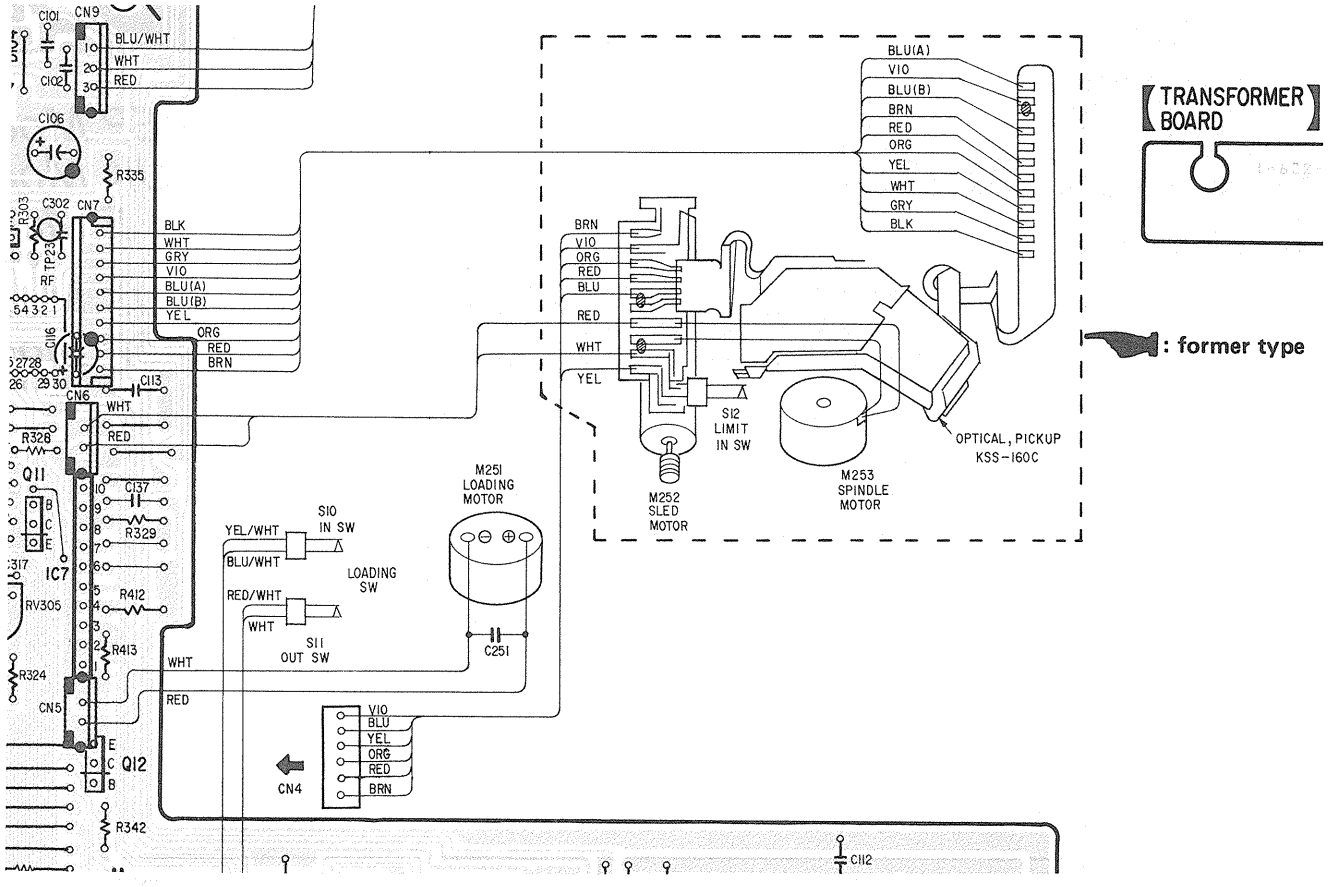
This supplement updates the following.
Subject: OPTICAL, PICKUP CHANGE

KSS-160C (former type) → **KSS-162A (new type)**

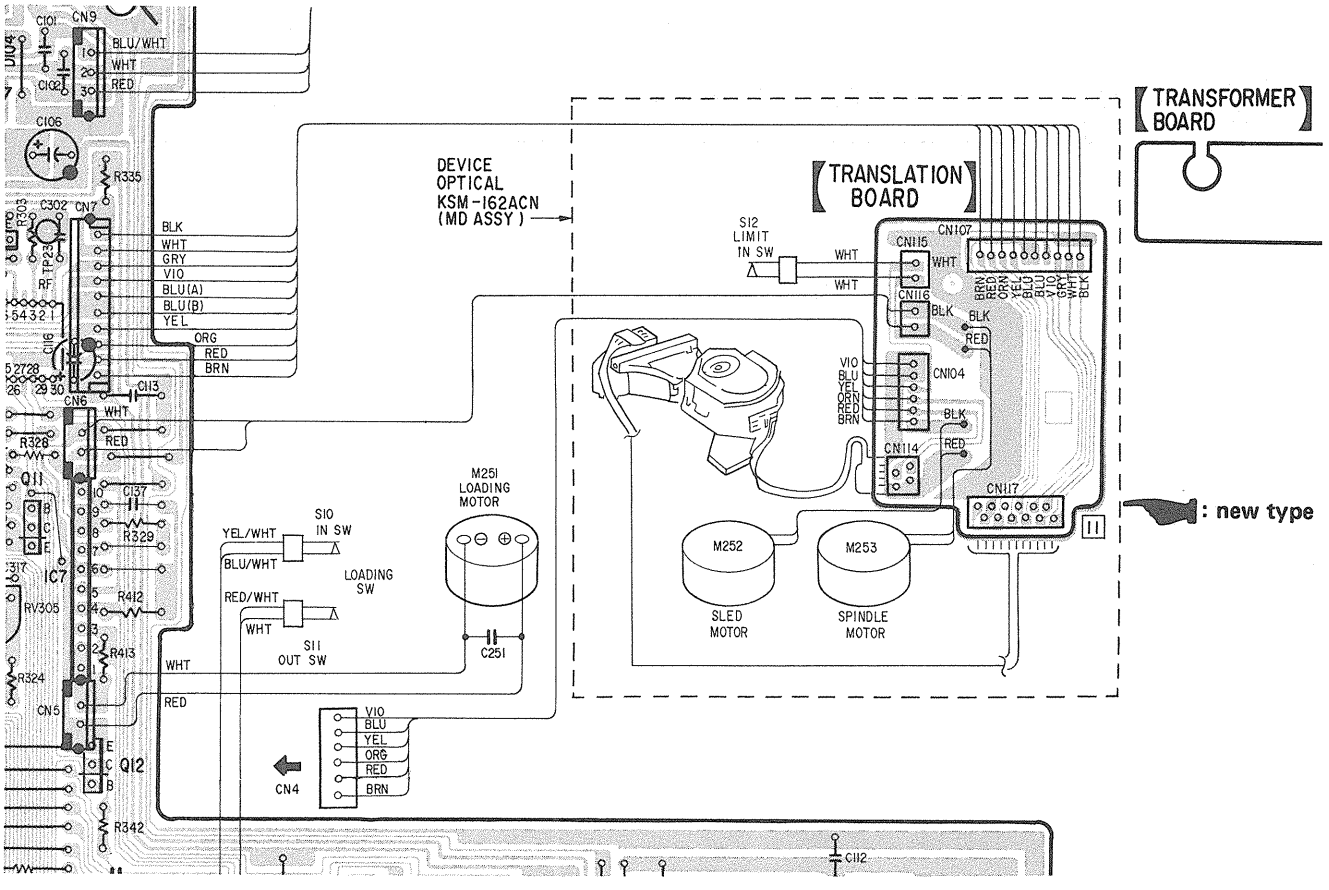
- **ELECTRICAL PARTS LIST**

		KSS-160C (former type)	KSS-162A (new type)
MAIN BOARD	CN9	*1-564-506-11 PLUG, CONNECTOR 3P	*1-564-518-11 PLUG, CONNECTOR 3P
	C313	1-136-165-00 FILM 0.1 µF 5% 50V	1-136-159-00 FILM 0.033 µF 5% 50V
CD BOARD	R317	1-247-883-00 CARBON 150K 5% 1/4W	1-247-881-00 CARBON 120K 5% 1/4W

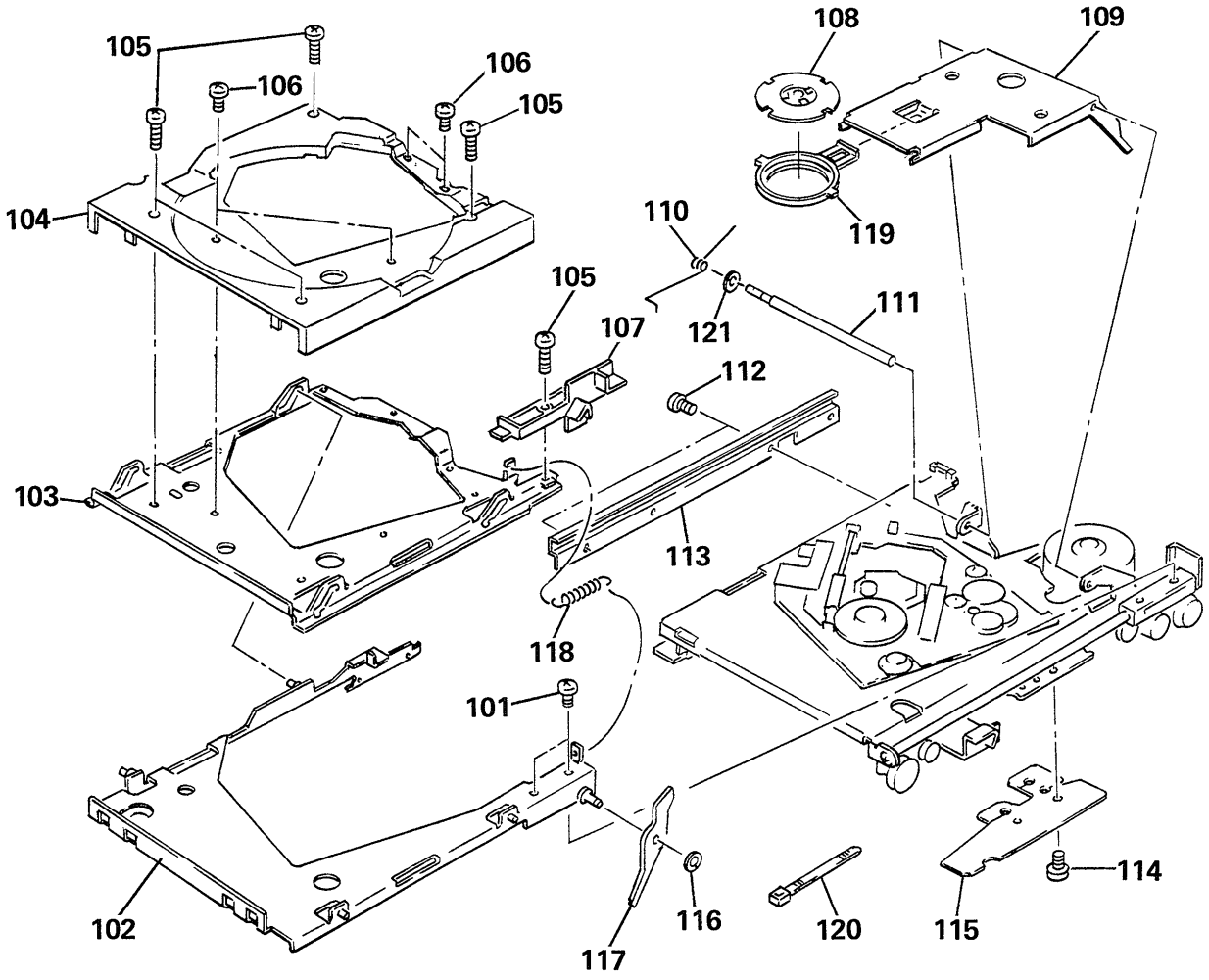
● FORMER TYPE (OPTICAL, PICKUP KSS-160C)



● NEW TYPE (OPTICAL, PICKUP KSM-162ACN (MD assy'))



(3) DISC TABLE (NEW TYPE)

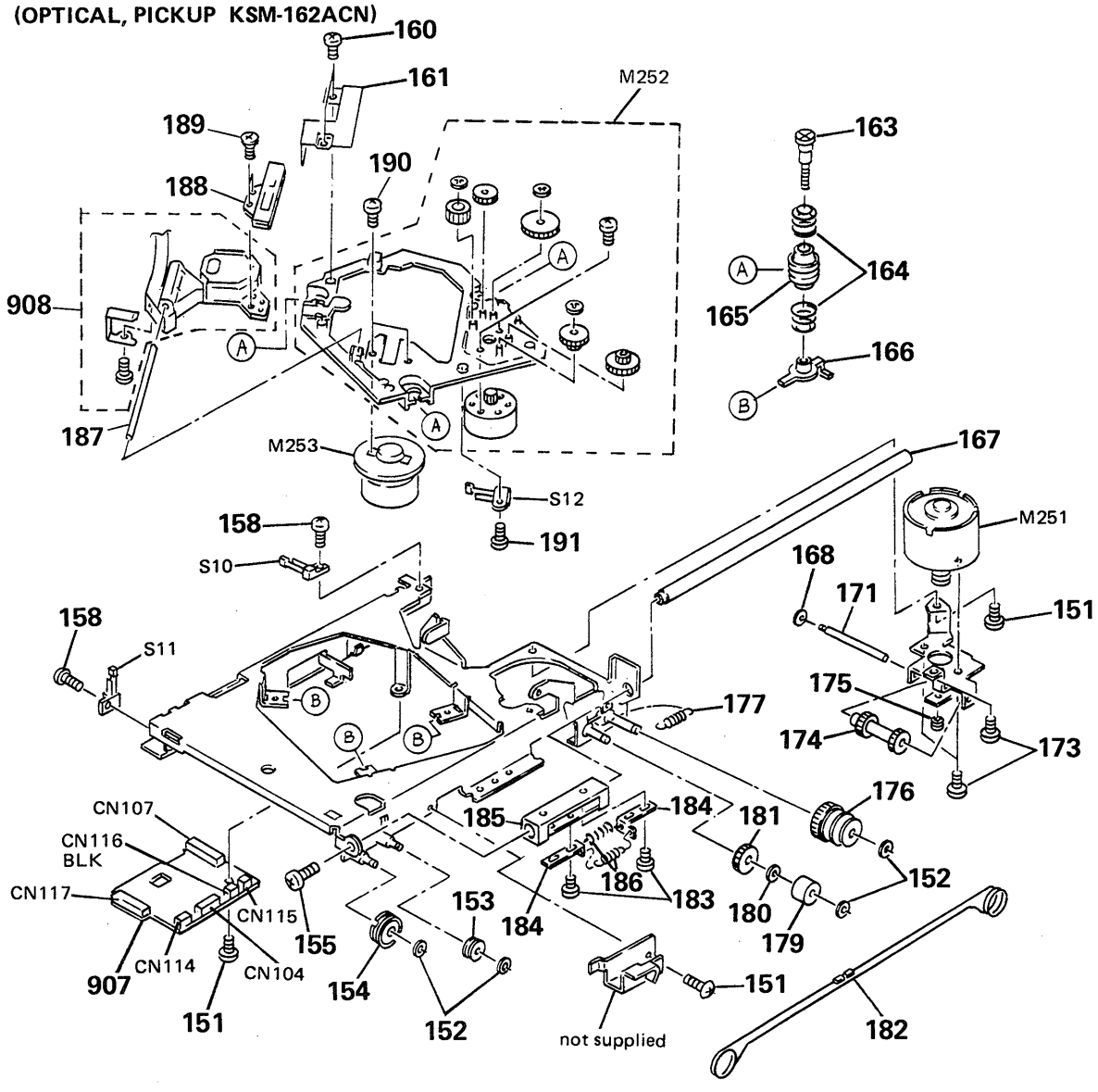


No.	Part No.	Description	Remarks
101	3-317-552-61	SCREW (M1.7X2.0)	
102	*X-4919-821-1	SLIDER (SLIDE TABLE) ASSY	
103	*4-919-882-01	SLIDER (DISK TABLE)	
104	4-919-887-01	GUIDE (DISK GUIDE)	
105	7-627-850-68	SCREW, PRECISION +P 1.4X4	
106	7-627-451-38	SCREW, PRECISION +K 1.4X2	
107	*4-919-880-01	GUIDE (S.D MOLD)	
108	X-4919-819-1	PLATE ASSY, CHUCK	
109	*4-919-883-02	LEVER (CHUCK ARM)	
110	4-919-874-01	SPRING, TORSION	

No.	Part No.	Description	Remarks
111	*4-919-871-01	SHAFT (CHUCK ARM SHAFT)	
112	7-627-850-18	SCREW, PRECISION +P 1.4X2.5	
113	*4-913-254-01	RAIL, GUIDE	
114	7-621-770-87	SCREW +BVTT 2.6X5 (S)	
115	*4-919-853-01	STOPPER	
116	3-681-678-00	WASHER, SLIT	
117	4-919-873-01	LEVER (S.D LEVER)	
118	4-919-821-01	SPRING, TENSION	
119	4-919-879-01	GUIDE (CHUCK PLATE)	
120	*3-337-402-01	BAND, BINDING	
121	3-318-236-01	WASHER, POLY, SLIT	

REVISED

(4) BASE UNIT (NEW TYPE) (OPTICAL, PICKUP KSM-162ACN)



No.	Part No.	Description	Remarks
151	7-621-770-87	SCREW +BVTT 2.6X5 (S)	
152	3-681-678-00	WASHER, SLIT	
153	3-304-108-00	PULLEY	
154	4-913-211-01	PULLEY (A)	
155	7-621-772-00	SCREW +B 2X3	
158	3-305-528-11	SCREW, STOPPER	
160	3-893-942-21	SCREW (1.7X5), TAPPING (B)	
161	*4-919-876-01	COVER (FLEXIBLE RETAINER)	
163	4-919-875-01	SCREW (INSU SCREW)	
164	4-919-870-01	SPRING, COMPRESSION	
165	4-924-705-01	INSULATOR	
166	*4-919-872-01	BASE (INSULATOR), FITTING	
167	*4-913-210-01	SHAFT, SLIDE	
168	3-318-236-01	WASHER, POLY, SLIT	
170	*4-919-803-01	BRACKET (MOTOR)	
171	*4-919-809-01	SHAFT (DRIVING)	
173	4-885-599-00	SCREW, FITTING, REINFORCEMENT	
174	4-919-806-01	GEAR (DRIVING)	
175	2-622-801-01	RETAINER, THRUST	
176	X-4919-811-1	LIMITER ASSY	
177	3-570-556-00	SPRING, TENSION	
179	4-913-213-01	PULLEY (C)	
180	3-701-437-11	WASHER	
181	4-913-212-01	GEAR (B), DRIVING	

No.	Part No.	Description	Remarks
182	4-913-276-01	ROPE, WIRE	
183	3-311-772-00	SHAFT (A), STOPPER	
184	4-913-209-01	SLIDER, WT	
185	X-4913-219-1	BEARING ASSY, SLIDE	
186	3-578-277-00	SPRING, TENSION	
187	2-641-534-01	SHAFT	
188	X-2641-528-1	RACK ASSY	
189	2-641-383-01	SCREW, M1.7 x 4	
190	7-627-552-88	SCREW, +P 1.7 x2	
191	7-685-103-19	SCREW, +P 2 x 5	
907	*1-628-148-11	PC BOARD, TRANSLATION	
908	8-848-081-21	DEVICE, OPTICAL KSS-162A (RP)	
CN104	1-564-722-11	PIN, CONNECTOR (SMALL TYPE) 6P	
CN107	*1-564-726-11	PIN, CONNECTOR (SMALL TYPE)10P	
CN114	1-565-953-11	CONNECTOR, FLEXIBLE 4P	
CN115	*1-564-517-11	PLUG, CONNECTOR 2P	
CN116	*1-564-517-11	PLUG, CONNECTOR 2P	
CN117	1-565-954-11	SOCKET, CONNECTOR 12P	
M251	X-4919-809-1	MOTOR ASSY	
M252	X-2641-539-1	MOTOR ASSY, SLED	
M253	X-2641-342-1	MOTOR ASSY, TT	
S10	1-553-226-00	SWITCH, LEAF	
S11	1-553-226-00	SWITCH, LEAF	
S12	1-570-112-11	SWITCH, LEAF	

9-953-197-82
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(Including 9-953-197-92)

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