

CDP-M75

SERVICE MANUAL

*AEP Model
UK Model
E Model*



CDP-M75

SPECIFICATIONS

Compact disc player

System	Compact disc player
Laser	Semiconductor laser ($\lambda = 780 \text{ nm}$)
Laser output	Max. 0.4 mW * This output is the value measured at a distance of about 1.6 mm from the objective lens surface on the Optical Pick-up Block.
Frequency response	2 Hz – 20 kHz ($\pm 0.5 \text{ dB}$)
Signal to noise ratio	More than 102 dB
Dynamic range	More than 95 dB
Harmonic distortion	Less than 0.003% (at 1 kHz)
Channel separation	More than 95 dB
Wow and flutter	Below measurable limit ($\pm 0.001\%$ WPEAK)

Outputs

	Type	Output level	Load impedance
LINE OUT	Phono jack	2 V (50 kilohms)	more than 10 kilohms
HEADPHONES	Stereo jack	6.6 mW (32 ohms)	—
DIGITAL OUT (AEP, UK MODEL)	Phono jack	0.5 Vp-p (75 ohms)	75 ohms

General

Power requirements

AEP Model. 220V AC, 50/60Hz
UK Model. 240V AC, 50/60Hz
E Model. 110–120, 220–240V AC, 50/60Hz

Power consumption

AEP, UK Model: 12W
E Model: 10W

Dimensions Approx. 355 x 95 x 310 mm (w/h/d)
(14 x 3³/₄ x 12¹/₄ inches)

including projecting parts and controls
Weight Approx. 3.6kg (7 lbs 15 oz), net

Remote commander (supplied) RM-D450

Remote control system

Infrared control

Power requirements

3 V DC with two R6 batteries (size AA)

Dimensions 62 x 20 x 168.5 mm (w/h/d)
(2¹/₂ x 1³/₁₆ x 6³/₄ inches)

Weight 130 g (5 oz)
including batteries

Supplied accessories

Connecting cord (2 phono plugs ↔ 2 phono plugs)	1
Remote commander	1
R6 batteries	2



COMPACT DISC PLAYER
SONY[®]



Features

- PROGRAM play for playing up to 20 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. Or for a particular portion of a selection.
- Easy-to-read display window shows the track number being played, elapsed playing time, and the remaining time, and indicates the repeat play, shuffle play, auto space functions.
- Auto space function for creating a blank space of 3 seconds between each selection.
- Timer play for initiating disc play at a desired time (a commercially available timer is required).
- Index search function for quickly locating a desired part*

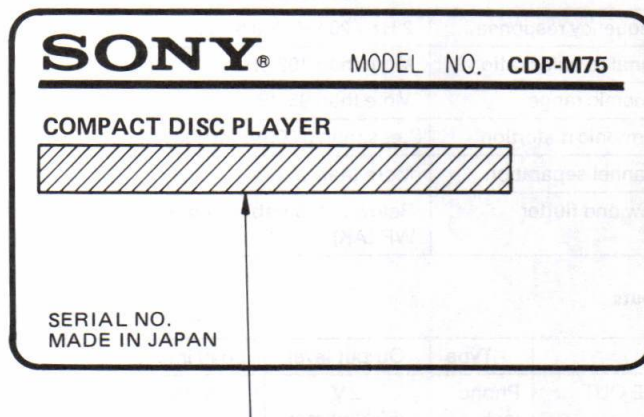
* Example: A movement in a symphony. Index search can be used only for discs having index numbers. Such discs have  mark.

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MODEL IDENTIFICATION

—Specification Labels—



AEP model: AC: 220V~50/60Hz 12W
 UK model: AC: 240V~50/60Hz 12W
 E model: AC: 110-120V, 220-240V
 ~50/60Hz 10W

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.

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 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.

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 iverigt 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 objektiv-linsen på den optiske pick-up enhed.

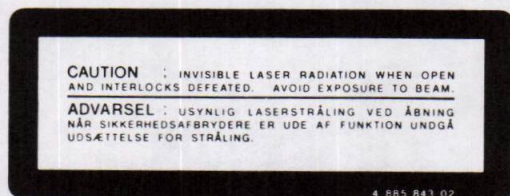
- Klassifikation: Klasse IIIb.

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

— SERVICING NOTE —

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 more than 25 cm away from the objective lens.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270°C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

LASER DIODE AND FOCUS SEARCH OPERATION CHECK

1. Make POWER switch on with no disc inserted and disc table closed.
2. Confirm that the operation indicated in Fig. A is performed while observing the objecting lens.

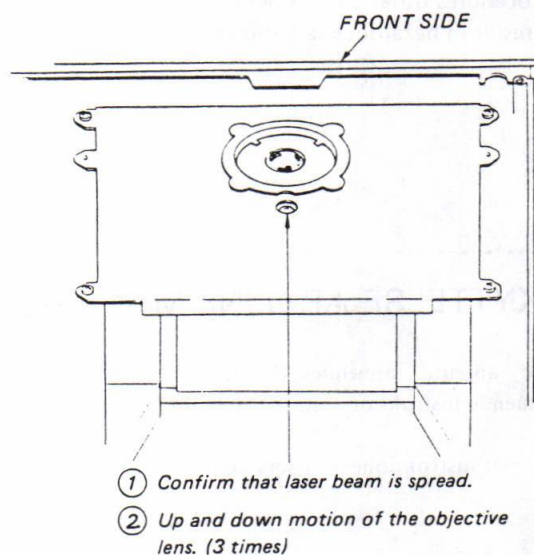


Fig. A

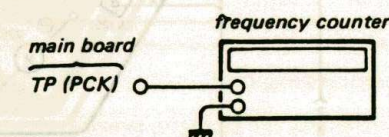
SECTION 1
ADJUSTMENTS

ELECTRICAL ADJUSTMENTS

1. Perform adjustments in the order given.
2. Use YEDS-18 (Part No.: 3-702-101-01) disc unless otherwise indicated.
3. Use the oscilloscope with more than 10 MΩ impedance.

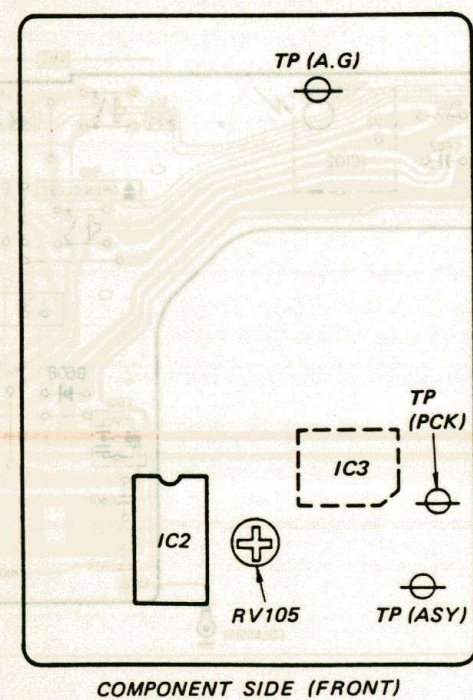
RF PLL Frequency Adjustment/Lock Frequency Check

Procedure:



1. Connect test point TP (ASY) to ground with lead wire.
2. Turn POWER switch on.
3. Connect the frequency counter to test point TP (PCK).
4. Adjust RV105 so that the reading on frequency counter is 4.3218 MHz $\pm$ 30 kHz.
..... (RF PLL frequency adjustment)
5. Remove lead wire connecting TP (ASY) to ground.
6. Put disc (YEDS-18) in and press ▷ button.
7. Confirm that the reading on frequency counter is 4.3218 MHz.

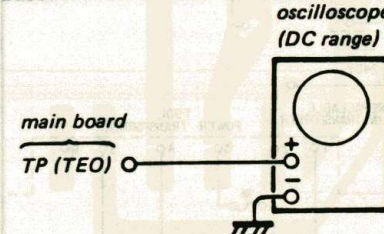
Adjustment Location: main board



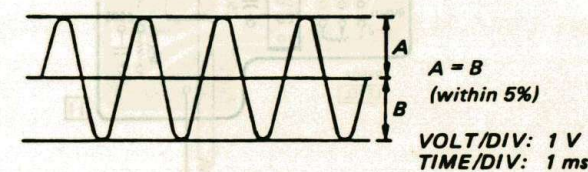
E-F Balance Adjustment

This adjustment should be made when replacing Optical pick-up Block.

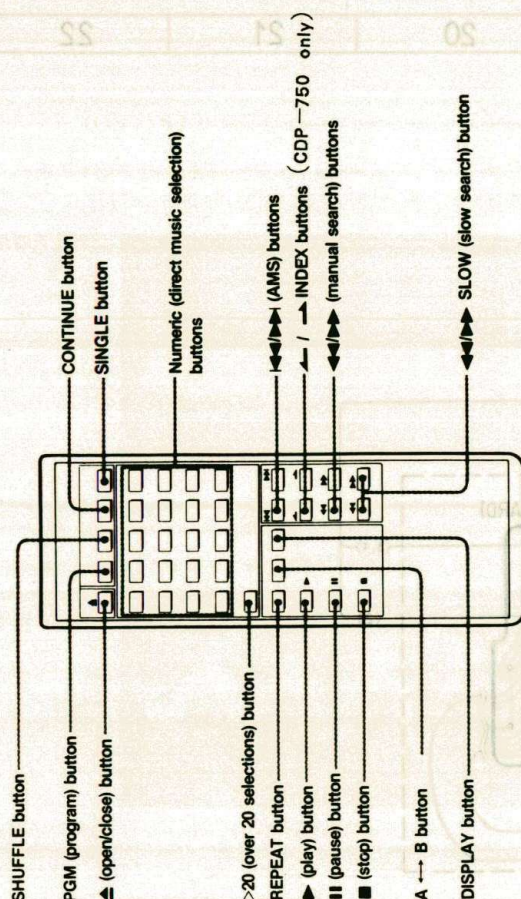
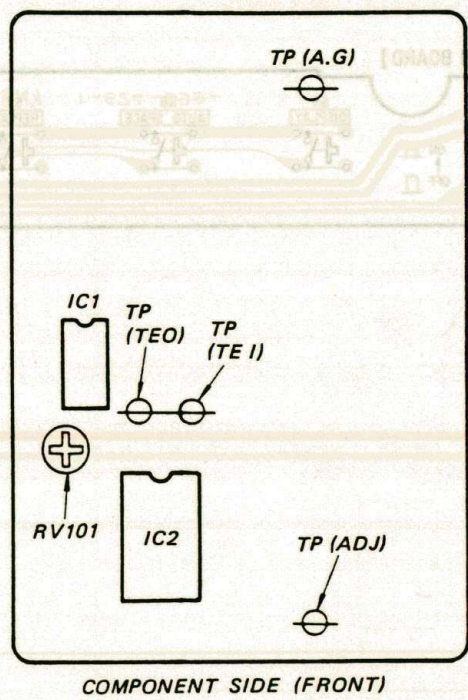
Procedure:



1. Connect test point TP (ADJ) and test point TP (TE I) to ground with lead wire.
2. Connect oscilloscope to test point TP (TEO).
3. Turn POWER switch on.
4. Put disc (YEDS-18) in and press ▷ button.
5. Adjust RV101 so that the traverse waveform is symmetrical above and below.
6. After adjustment, remove the lead wire connected in step 5.



Adjustment Location: main board



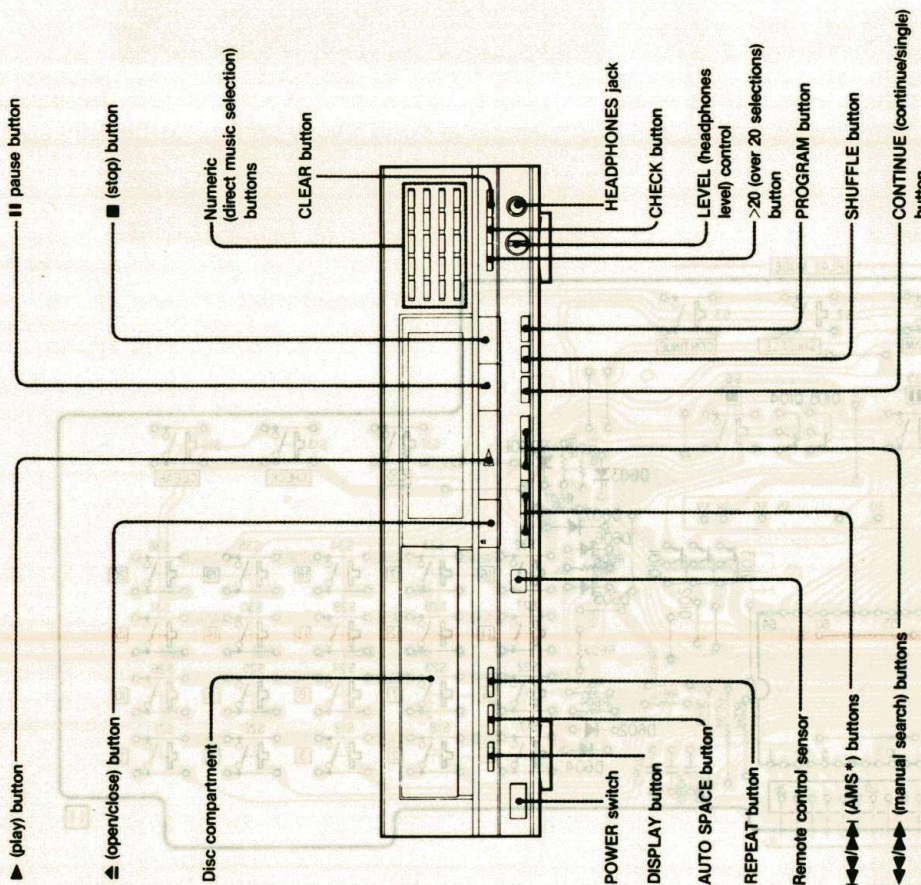
Remote Control Operation

Operations which cannot be performed with the remote commander

- Tuning the power on and off.
- Checking the programmed selections.
- Setting or releasing auto space function.

Notes on the remote control

- Keep the commander away from extremely hot or humid places.
- Avoid dropping any foreign objects inside the commander case, particularly when replacing batteries.
- To avoid malfunctions, do not simultaneously depress two or more buttons.
- The remote sensor should not be exposed to direct sunlight, because this may prevent picking up the signals from the remote commander.



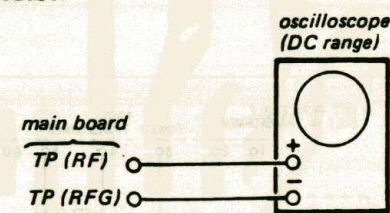
an abbreviation of Automatic Music Sensor

REFERENCE

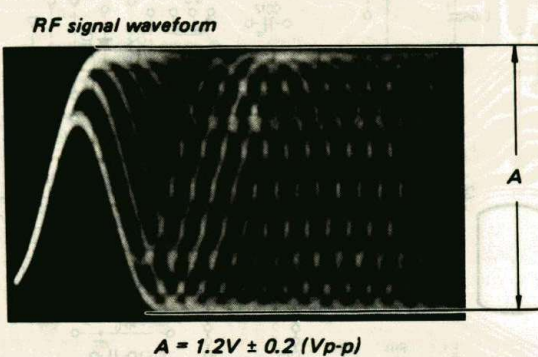
Focus Bias Adjustment

This adjustment should be made when replacing Optical pick-up Block.

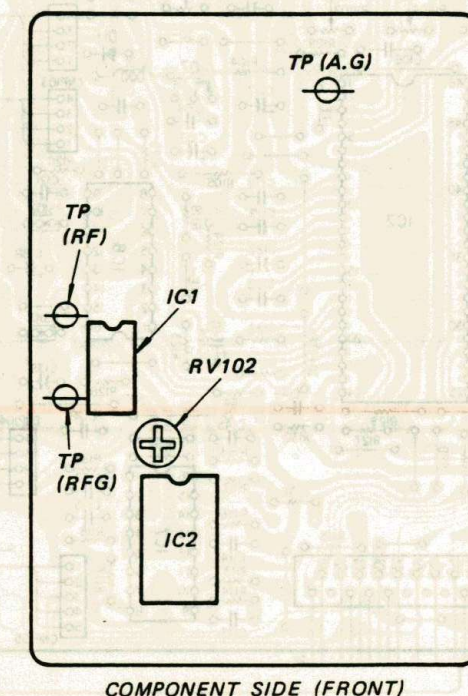
Procedure:



1. Connect oscilloscope to test point TP (RF) and test point TP (RFG).
2. Turn POWER switch on.
3. Put disc (YEDS-18) in and press ▷ button.
4. Adjust RV102 for an optimum waveform eye pattern or so that the peak is maximum. Optimum eye pattern means that shape "◇" can be clearly distinguished at the center of the waveform.



Adjustment Location: main board



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.

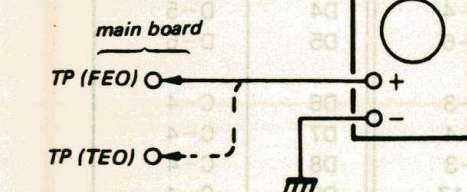
Symptoms	Gain	Focus	Tracking
• The time until music starts becomes longer for STOP → ▷PLAY or automatic selection (◀▶▶▶ buttons pressed. (Normally takes about 2 seconds.))	low	low or high	
• Music does not start and disc continues to rotate for STOP → ▷PLAY or automatic selection (◀▶▶▶ buttons pressed.)	—	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.

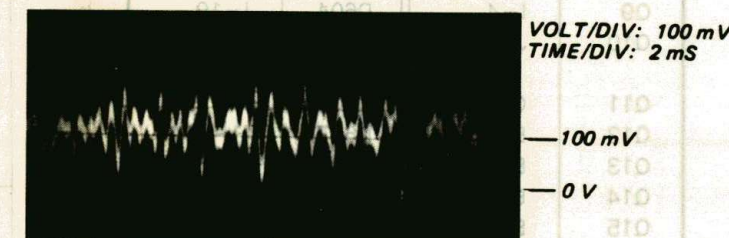
Simple Adjustment

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.

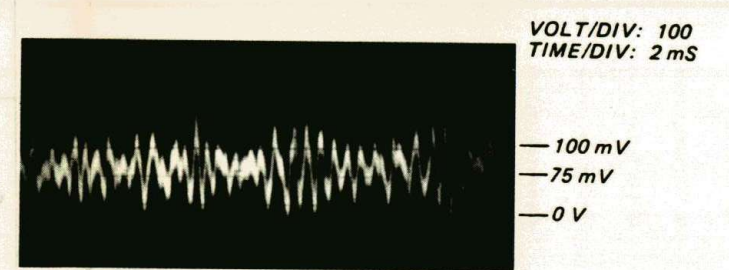
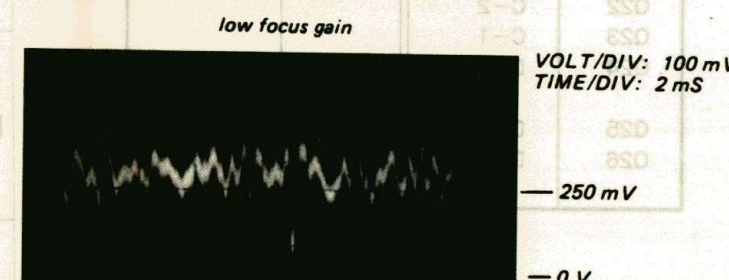
Procedure:



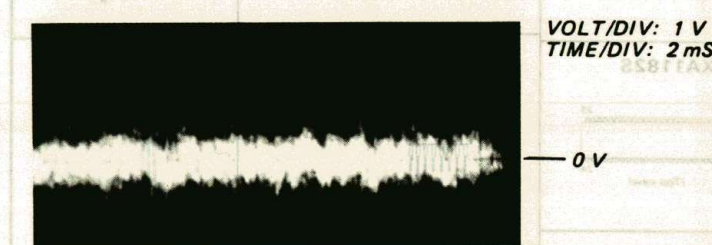
1. Keep the set horizontal.
(If the set is not horizontal, this adjustment cannot be performed due to the gravity against the 2 axis device.)
2. Insert disc (YEDS-18: Fifth Selection) and press ▷PLAY button.
3. Connect oscilloscope to main amp board TP (FEO).
4. Adjust RV103 so that the waveform is as shown in the figure below. (focus gain adjustment)



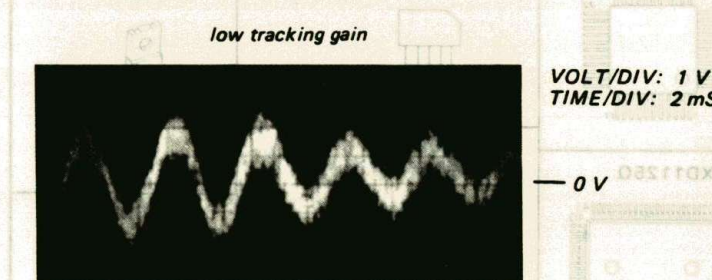
- Inconrent Examples (DC level changes more than on adjusted waveform)



5. Connect oscilloscope to main board TP (TEO).
6. Adjust RV104 so that the waveform is as shown in the figure below. (tracking gain adjustment)



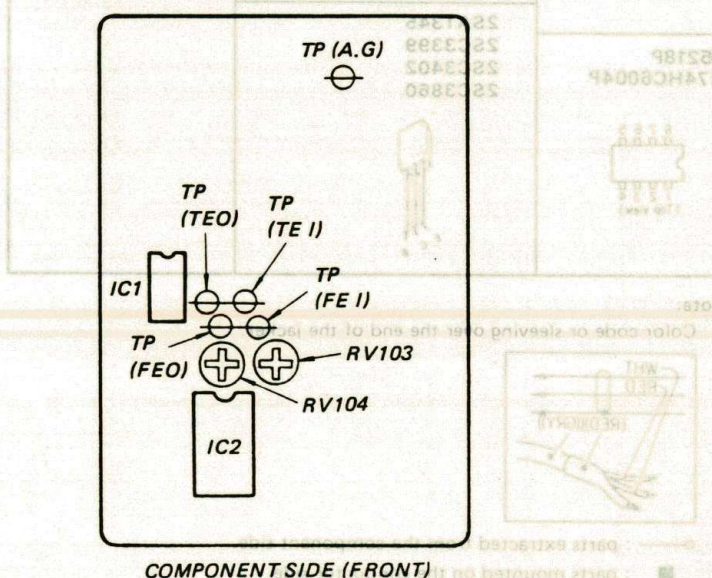
- Incorrect Examples (fundamental wave appears)



low tracking gain



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

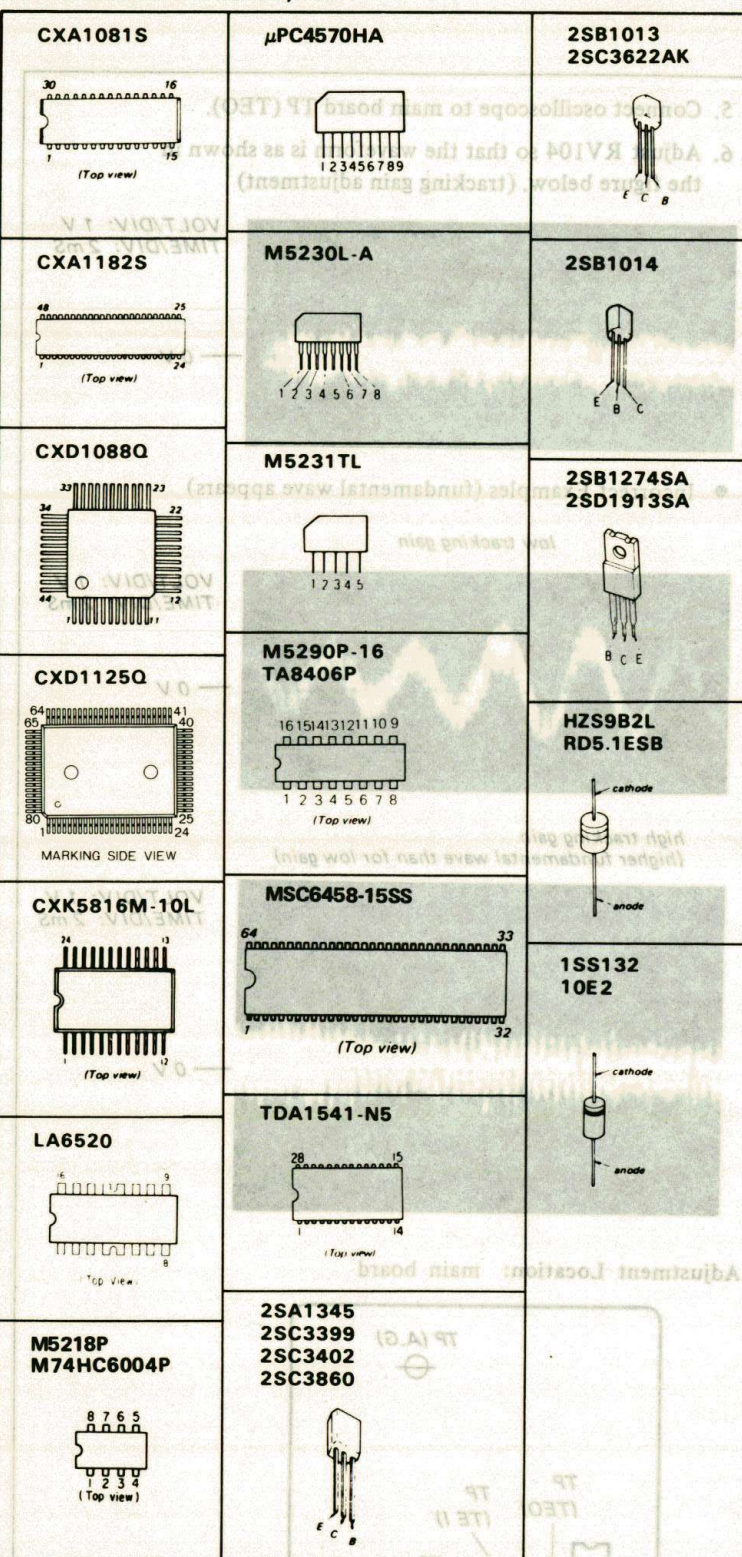


Adjustment Location: main board

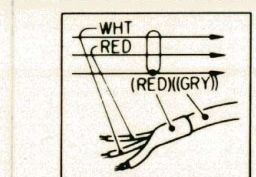
COMPONENT SIDE (FRONT)

SECTION 2 DIAGRAMS

● Semiconductors Lead Layout



Note:
● Color code or sleeving over the end of the jacker.



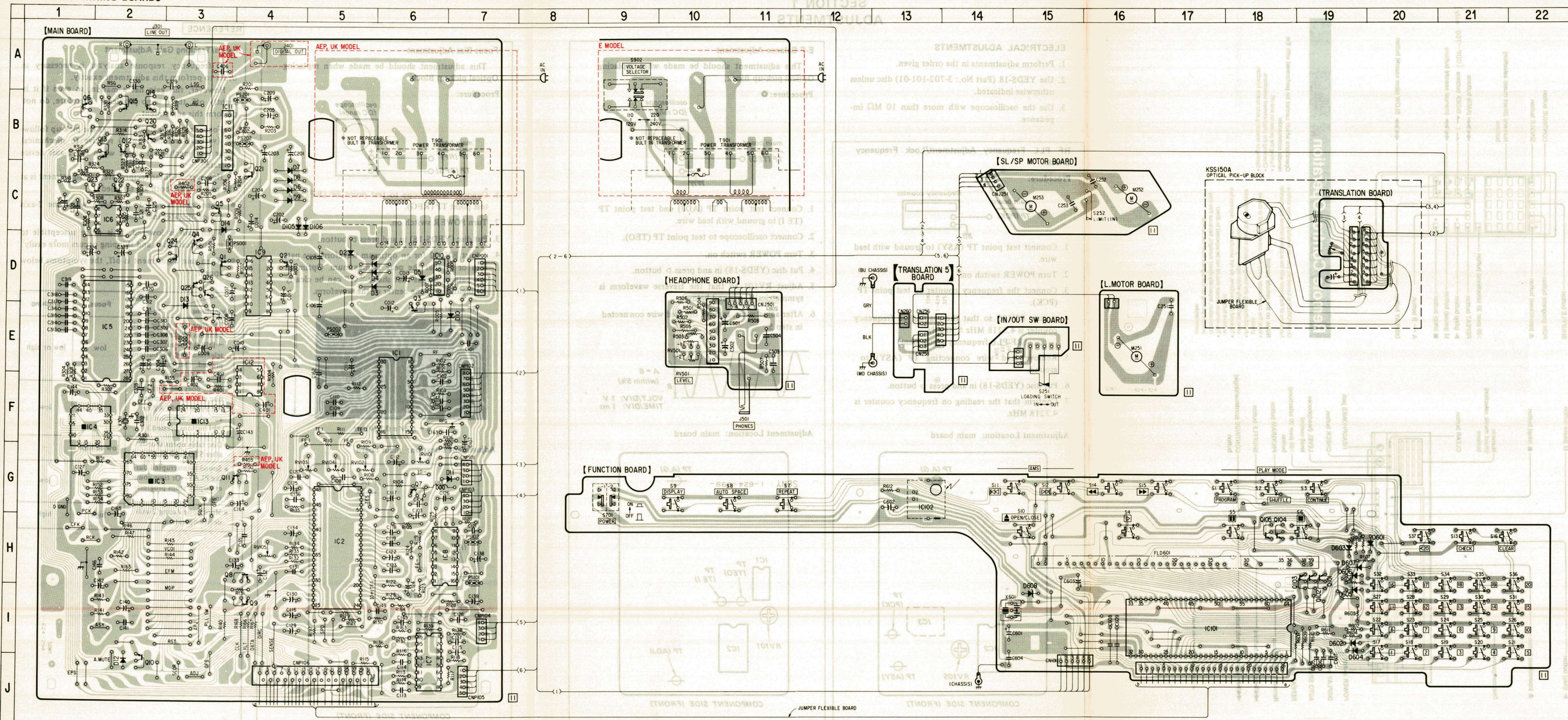
- : parts extracted from the component side.
- : parts mounted on the conductor side.
- : indicates side identified with part number.
- : Jumper wire connected to the ground pattern on the component side.

Ref.No.	Location	Ref.No.	Location
IC1	F-6	Q101	H-19
IC2	H-5	Q102	H-19
IC3	G-2	Q103	H-19
IC4	F-1	Q104	H-18
IC5	E-2	Q105	H-18
IC6	C-2	D1	D-5
IC7	J-6	D2	D-5
IC8	H-6	D3	D-5
IC9	D-4	D4	D-5
IC10	D-6	D5	D-6
IC11	B-3	D6	C-4
IC12	F-4	D7	C-4
IC13	F-3	D8	C-4
IC101	I-17	D9	C-4
IC102	G-13	D10	E-7
IC201	E-10	D11	G-7
Q1	D-3	D12	J-2
Q2	D-4	D13	E-3
Q3	E-6	D14	C-3
Q4	D-3	D105	C-4
Q5	C-3	D106	C-4
Q6	B-1	D601	H-20
Q7	G-6	D602	I-19
Q8	H-4	D603	H-19
Q9	I-4	D604	I-19
Q10	J-2	D605	I-19
Q11	G-4	D606	H-19
Q12	B-2	D607	H-19
Q13	B-2	D608	I-15
Q14	B-2		
Q15	B-2		
Q20	B-2		
Q21	C-4		
Q22	C-2		
Q23	C-1		
Q24	D-3		
Q25	D-3		
Q26	D-3		

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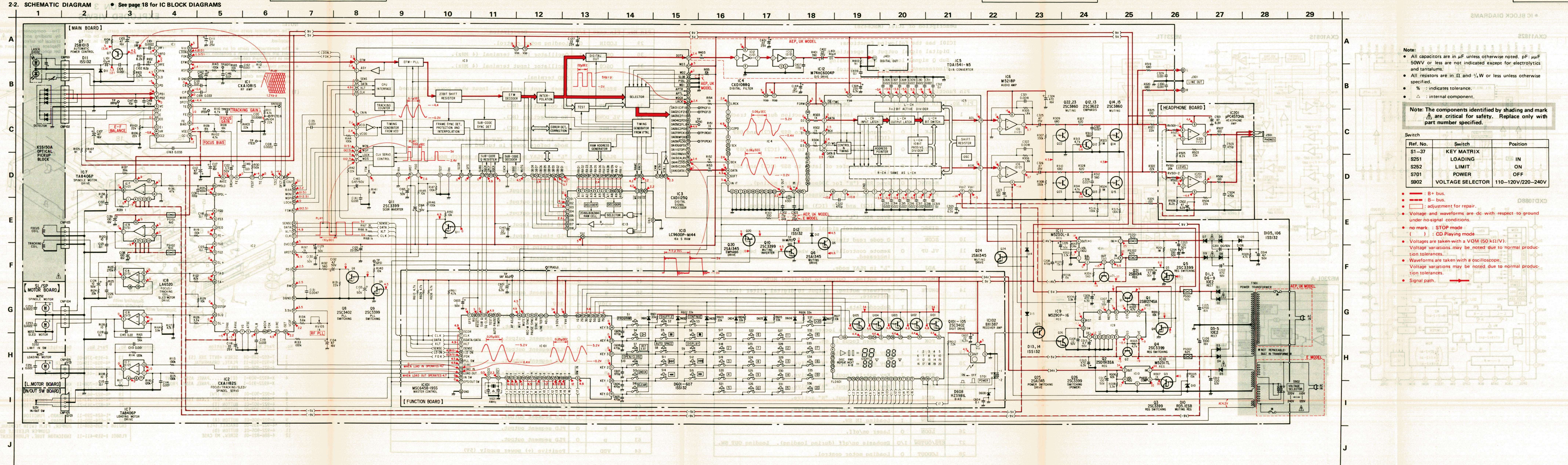
CDP-M75

2-1. PRINTED WIRING BOARDS

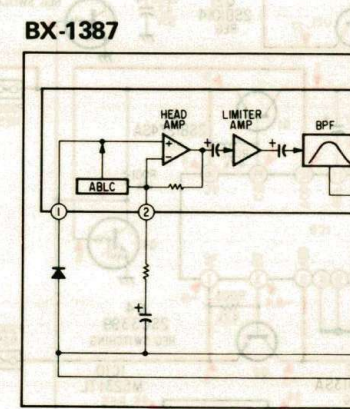
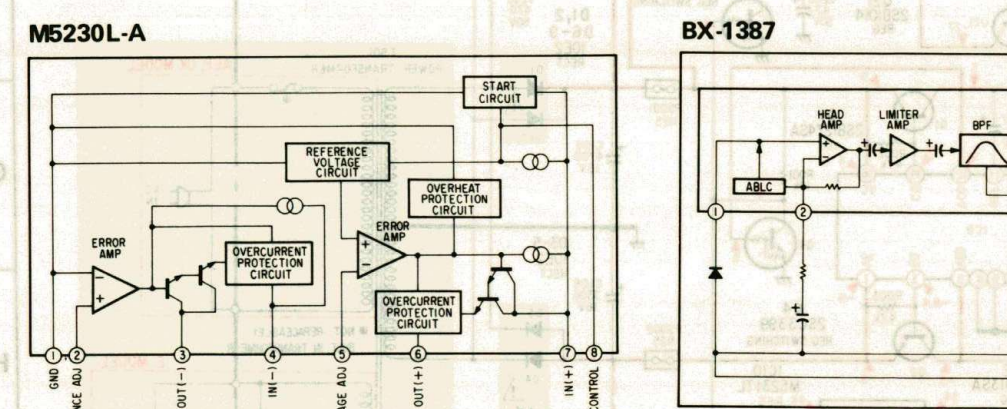
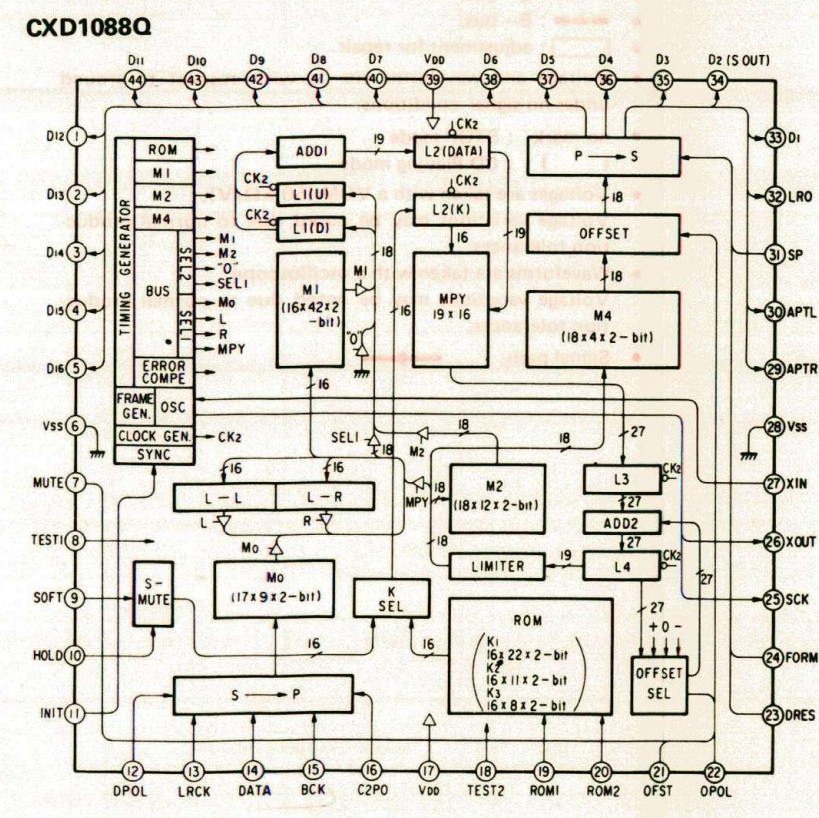
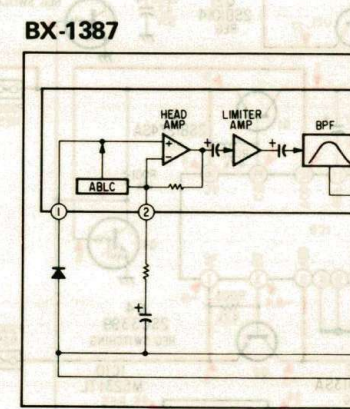
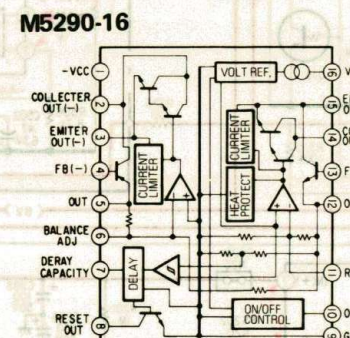
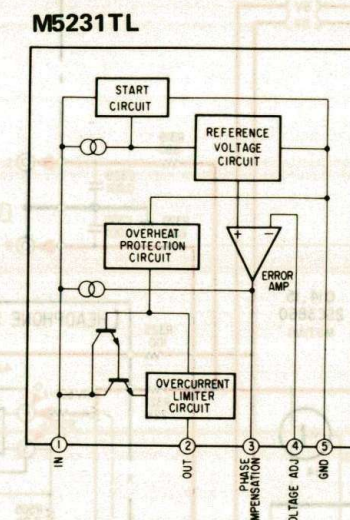
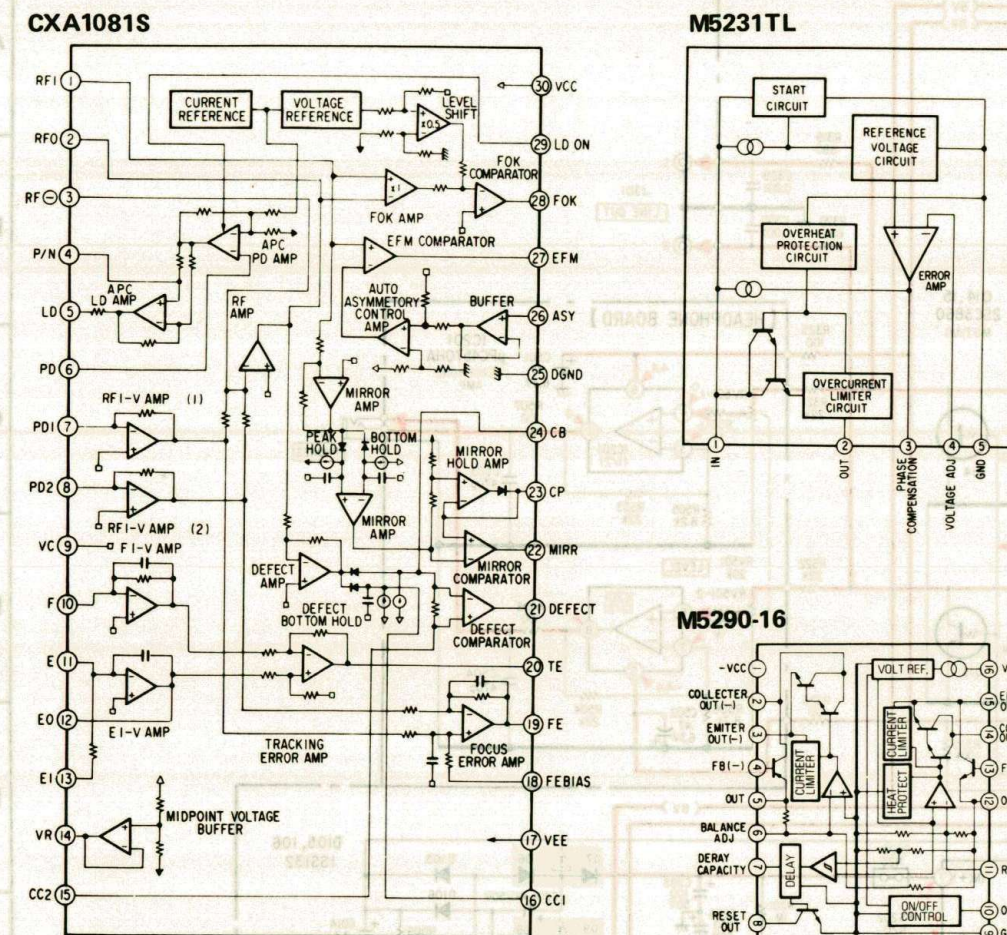
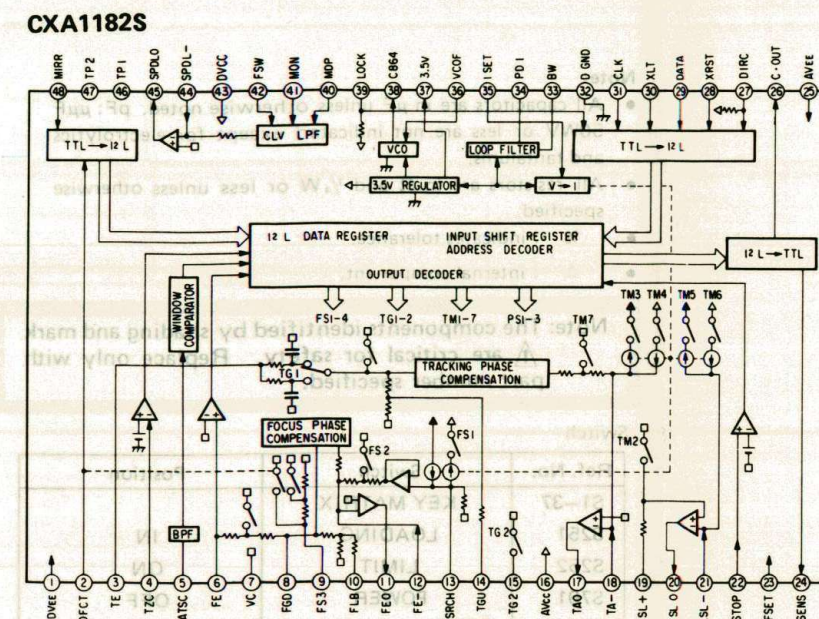


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CDP-M75



- IC BLOCK DIAGRAMS



Description of IC101 (MSC6458)

IC101 has the following functions:

- . Digital signal output to operation key
- . Sub Q signal loading and processing
- . Fluorescent display (FLD) control
- . Servo circuit control

Pin Function

Pin No.	Pin name	I/O	Description
1	DIRC	O	Jump pulse inversion instruction during 1 track jump.
2	CLK	O	Command transfer of clock to SSP (IC2) and DSP (IC3).
3	DATA	O	Command transfer of data to SSP (IC2) and DSP (IC3).
4	XLT	O	Command transfer of latch to SSP (IC2) and DSP (IC3).
5	M-SYNC	O	Sync REC ("H" for 300msec during muting).
6	P-SYNC	O	Sync REC ("H" for 300msec when muting is off).
7	SENSE	I	SSP (IC2) and DSP (IC3) sense information.
8	SYNC ON	I	Sync REC ("L" in REC mode).
9	SIRSC	I	Remote control signal input.
10	SCOR	I	Q code read timing.
11	VL UP	O	Remote controller. "L" when volume is being increased.
12	ADJ	I	"L" in PLAY mode.
13	AMUTE	O	All muting. Output to DSP (IC3) MUTG.
14	DMUTE	O	Software muting. Output to digital filter (IC4) software.
15	SUBQ	I	Subcode data.
16	SQCLK	O	Subcode data read clock.
17	GFS	I	"H" when CLV is locked.
18	FOK	I	"H" when focus is on.
19	KEY0	I	Key matrix input, "H" active.
20	KEY1	I	Key matrix input, "H" active.
21	KEY2	I	Key matrix input, "H" active.
22	KEY3	I	Key matrix input, "H" active.
23	KEY4	I	Key matrix input, "H" active.
24	KEY5	I	Key matrix input, "H" active.
25	INSW	I	Loading IN SW.
26	LDON	O	Laser on/off.
27	EPS/OUTSW	I/O	Emphasis on/off (during loading). Loading OUT SW.
28	LODOUT	O	Loading motor control.

Pin No.	Pin name	I/O	Description
29	LODIN	O	Loading motor control.
30	OSC1	I	Oscillator input terminal (4 MHz).
31	OSC0	I	Oscillator input terminal (4 MHz).
32	GND	-	GND terminal.
33	RESET	I	Reset input terminal. Input when power is turned on.
34	TEST	-	No connection (NC).
35	VL DOWN	-	No connection (NC).
36	TIMER	-	No connection (NC).
37	AFADJ	I	"L" in PLAY mode. CLV-S is fixed. "L" in test mode before power is turned on.
38	PLLSW	O	"L" in PLAY mode and "H" in search mode.
39	8G	-	FLD timing output.
40	7G	O	FLD timing output.
41	6G	O	FLD timing output.
42	5G	O	FLD timing output.
43	4G	O	FLD timing output.
44	3G	O	FLD timing input.
45	2G	O	FLD timing input.
46	1G	O	FLD timing input.
47	a	O	FLD segment output.
48	f	O	FLD segment output.
49	b	O	FLD segment output.
50	q	O	FLD segment output.
51	+30V	-	+30V
52	e	O	FLD segment output.
53	c	O	FLD segment output.
54	d	O	FLD segment output.
55	o	O	FLD segment output.
56	h	O	FLD segment output.
57	m	O	FLD segment output.
58	i	O	FLD segment output.
59	n	O	FLD segment output.
60	l	O	FLD segment output.
61	j	O	FLD segment output.
62	k	O	FLD segment output.
63	p	O	FLD segment output.
64	VDD	-	Positive (+) power supply (5V)

SECTION 3 EXPLODED VIEWS

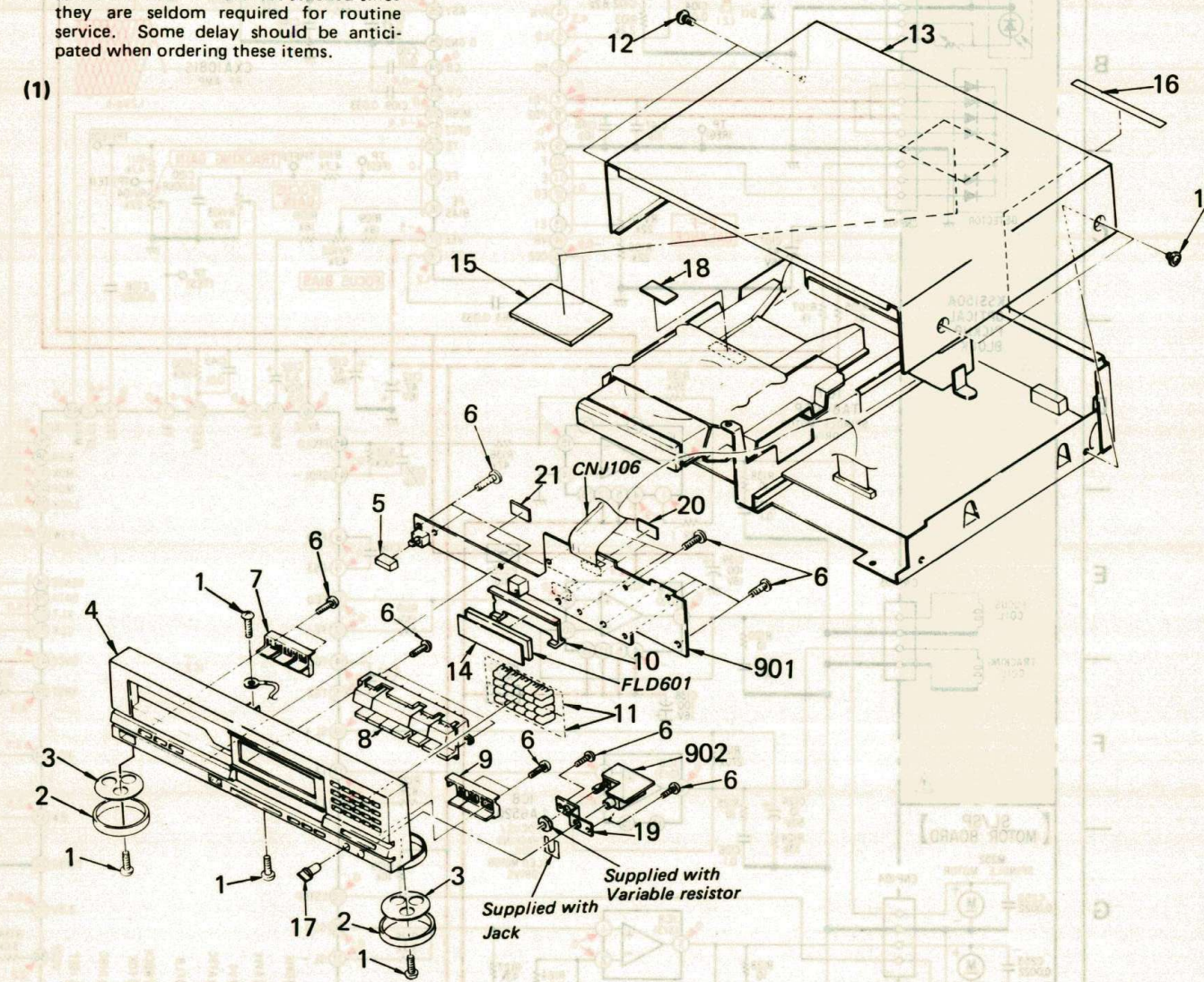
NOTE:

- 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.

(1)

- 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.

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



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
1	7-682-548-04	SCREW +BVT1 3X8 (S)		13	4-919-376-01	CASE	
2	4-921-918-11	PLATE, ORNAMENTAL		14	*4-918-119-01	FILTER	
3	4-921-906-01	FELT		15	*4-922-938-01	DUMPER	
4	X-4922-909-1	(E).....PANEL ASSY, FRONT		16	3-831-441-XX	CUSHION, PANEL	
	X-4922-910-1	(AEP,UK).....PANEL ASSY, FRONT		17	4-901-708-11	KNOB, LOV	
5	4-922-903-01	BUTTON (PW)		18	4-885-843-02	LABEL, CAUTION, LASER	
6	7-685-134-19	SCREW +BTP 2.6X8 TYPE2 N-S		19	*4-922-940-01	BACKET (HEADPHONE)	
7	4-922-907-01	BUTTON (T)		20	*4-822-343-31	CUSHION, PROTECTION	
8	4-922-909-01	BUTTON (P)		21	4-822-343-21	CUSHION, PROTECTION	
9	4-922-906-01	BUTTON (R)		901	*1-624-299-11	PC BOARD, FUNCTION	
10	*4-922-935-01	BRACKET (FL)		902	*1-624-300-11	PC BOARD, HEADPHONE	
11	4-922-905-01	BUTTON (D)		CUJ106	1-535-684-11	JUMPER, FILM (WITH TERMINAL)	
12	4-886-821-01	SCREW, M3 CASE				(JUMPER FLEXIBLE BOARD)	
				FLD601	1-519-411-11	INDICATOR TUBE, FLUORESCENT	

Ref.No.	Part No.	Description			
C304	1-124-444-00	ELECT	220MF	20%	6.3V
C305	1-124-444-00	ELECT	220MF	20%	6.3V
C306	1-161-494-00	CERAMIC	0.022MF		25V
C307	1-161-494-00	CERAMIC	0.022MF		25V
C308	1-161-494-00	CERAMIC	0.022MF		25V
C309	1-161-494-00	CERAMIC	0.022MF		25V
C310	1-161-494-00	CERAMIC	0.022MF		25V
C311	1-161-494-00	CERAMIC	0.022MF		25V
C312	1-162-851-11	CERAMIC	0.1MF	20%	16V
C313	1-161-494-00	CERAMIC	0.022MF		25V
C314	1-161-494-00	CERAMIC	0.022MF		25V
C315	1-161-494-00	CERAMIC	0.022MF		25V
C316	1-161-494-00	CERAMIC	0.022MF		25V
C317	1-161-494-00	CERAMIC	0.022MF		25V
C318	1-161-494-00	CERAMIC	0.022MF		25V
C319	1-162-851-11	CERAMIC	0.1MF	20%	16V
C320	1-162-290-31	CERAMIC	470PF	10%	50V
C321	1-130-474-00	MYLAR	0.0018MF	5%	50V
C322	1-130-474-00	MYLAR	0.0018MF	5%	50V
C323	1-126-103-11	ELECT	470MF	20%	16V
C324	1-126-103-11	ELECT	470MF	20%	16V
C325	1-123-332-00	ELECT	47MF	20%	25V
C326	1-123-332-00	ELECT	47MF	20%	25V
C327	1-130-488-00	MYLAR	0.027MF	5%	50V
C328	1-130-488-00	MYLAR	0.027MF	5%	50V
C329	1-106-343-00	MYLAR	0.001MF	5%	50V
C330	1-106-343-00	MYLAR	0.001MF	5%	50V
C401	1-124-908-11	(AEP,UK).....ELECT	22MF	20%	25V
C402	1-124-908-11	(AEP,UK).....ELECT	22MF	20%	25V
C406	1-162-851-11	(AEP,UK).....CERAMIC	0.1MF	20%	16V
C407	1-162-282-31	(AEP,UK).....CERAMIC	100PF	10%	50V
C501	1-124-224-00	ELECT	47MF	20%	6.3V
C502	1-124-224-00	ELECT	47MF	20%	6.3V
C503	1-162-290-31	CERAMIC	470PF	10%	50V
C504	1-162-290-31	CERAMIC	470PF	10%	50V
C601	1-124-638-11	ELECT	22MF	20%	6.3V
C602	1-124-638-11	ELECT	22MF	20%	6.3V
C603	1-123-611-00	ELECT	1MF	20%	50V
C604	1-162-851-11	CERAMIC	0.1MF	20%	16V
C605	1-162-290-31	CERAMIC	470PF	10%	50V
C606	1-162-290-31	CERAMIC	470PF	10%	50V
C607	1-162-290-31	CERAMIC	470PF	10%	50V
C608	1-162-290-31	CERAMIC	470PF	10%	50V
C609	1-162-290-31	CERAMIC	470PF	10%	50V
CN256	*1-564-336-51	PIN, CONNECTOR 2P			
CN258	*1-564-337-51	PIN, CONNECTOR 3P			
CN260	*1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P			
CNJ106	1-535-684-11	JUMPER, FILM (WITH TERMINAL) (JUMPER FLEXIBLE BOARD)			
CNJ251	*1-564-720-21	PIN, CONNECTOR (SMALL TYPE) 4P			
CNJ501	*1-564-721-11	PIN, CONNECTOR (SMALL TYPE) 5P			
CNP001	*1-564-340-00	PIN, CONNECTOR 6P			
CNP101	*1-564-706-31	PIN, CONNECTOR (SMALL TYPE) 4P			
CNP102	*1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P			
CNP103	*1-564-706-41	PIN, CONNECTOR (SMALL TYPE) 4P			
CNP104	*1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P			
CNP105	*1-564-339-61	PIN, CONNECTOR 5P			

Ref.No.	Part No.	Description
CNP106*1-566-908-11		SOCKET, CONNECTOR 32P
CNP301*1-564-707-11		PIN, CONNECTOR (SMALL TYPE) 5P
D1	A.8-719-200-02	DIODE 10E2
D2	A.8-719-200-02	DIODE 10E2
D3	A.8-719-200-02	DIODE 10E2
D4	A.8-719-200-02	DIODE 10E2
D5	A.8-719-200-02	DIODE 10E2
D6	A.8-719-200-02	DIODE 10E2
D7	A.8-719-200-02	DIODE 10E2
D8	A.8-719-200-02	DIODE 10E2
D9	A.8-719-200-02	DIODE 10E2
D10	8-719-109-83	DIODE RD5.1ESB
D11	8-719-940-76	DIODE 1SS132
D12	8-719-940-76	DIODE 1SS132
D13	8-719-940-76	DIODE 1SS132
D14	8-719-940-76	DIODE 1SS132
D105	8-719-940-76	DIODE 1SS132
D106	8-719-940-76	DIODE 1SS132
D601	8-719-940-76	DIODE 1SS132
D602	8-719-940-76	DIODE 1SS132
D603	8-719-940-76	DIODE 1SS132
D604	8-719-940-76	DIODE 1SS132
D605	8-719-940-76	DIODE 1SS 32
D606	8-719-940-76	DIODE 1SS132
D607	8-719-940-76	DIODE 1SS132
D608	8-719-933-57	DIODE HZS9B2L
FLD601	1-519-411-11	INDICATOR TUBE , FLUORESCENT
IC1	8-752-031-80	IC CXA1081S
IC2	8-752-032-33	IC CXA1182S
IC3	8-752-322-04	IC CXD1125Q
IC4	8-759-939-35	IC CXD1088Q
IC5	8-759-939-94	IC TDA1541-N5
IC6	8-759-601-02	IC M5218P
IC7	8-759-208-96	IC TA8406P
IC8	8-759-805-18	IC LA6520
IC9	8-759-630-21	IC M5290P-16
IC10	8-759-605-43	IC M5231TL
IC11	8-759-602-66	IC M5230L-A
IC12	8-759-605-44	(AEP,UK)...IC M74HC6004P
IC13	8-752-320-44	IC CXK5816M-10L
IC101	8-759-945-87	IC MSC6458-15SS
IC102	8-741-138-70	IC BX-1387
IC201	8-759-106-61	IC UPC4570HA
J301	1-566-921-11	JACK, PIN 2P (LINE OUT)
J401	1-566-922-11	(AEP,UK)...JACK, PIN 1P (DIGITAL OUT)
J501	1-563-485-21	JACK, LARGE TYPE (PHONES)
L101	1-408-563-00	INDUCTOR 10UH
L401	*1-410-858-11	(AEP,UK)...INDUCTOR, SMALL TYPE
M251	A-4608-346-A	MOTOR ASSY, L
M252	X-4917-523-1	ASSY, MOTOR (SPINDLE)
M253	X-4917-504-1	ASSY, MOTOR (SLED)
PS001	1-532-637-00	LINK, IC
PS002	1-532-637-00	LINK, IC
PS101	1-532-605-00	LINK, IC

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

Ref.No.	Part No.	Description			
PS102	1-532-605-00	LINK, IC			
PS201	1-532-685-00	LINK, IC			
PS202	1-532-685-00	LINK, IC			
Q1	8-729-808-72	TRANSISTOR 2SB1274SA			
Q2	8-729-808-76	TRANSISTOR 2SD1913SA			
Q3	8-729-806-38	TRANSISTOR 2SC3399			
Q4	8-729-806-38	TRANSISTOR 2SC3399			
Q5	8-729-806-38	TRANSISTOR 2SC3399			
Q6	8-729-806-20	TRANSISTOR 2SA1345			
Q7	8-729-801-83	TRANSISTOR 2SB1013			
Q8	8-729-806-28	TRANSISTOR 2SC3402			
Q9	8-729-806-38	TRANSISTOR 2SC3399			
Q10	8-729-806-38	TRANSISTOR 2SC3399			
Q11	8-729-806-38	TRANSISTOR 2SC3399			
Q12	8-729-107-99	TRANSISTOR 2SC3622A-K			
Q13	8-729-107-99	TRANSISTOR 2SC3622A-K			
Q14	8-729-806-32	TRANSISTOR 2SC3860			
Q15	8-729-806-32	TRANSISTOR 2SC3860			
Q20	8-729-806-20	TRANSISTOR 2SA1345			
Q21	8-729-802-22	TRANSISTOR 2SB1014			
Q22	8-729-806-32	TRANSISTOR 2SC3860			
Q23	8-729-806-32	TRANSISTOR 2SC3860			
Q24	8-729-806-20	TRANSISTOR 2SA1345			
Q25	8-729-806-20	TRANSISTOR 2SA1345			
Q26	8-729-806-38	TRANSISTOR 2SC3399			
Q101	8-729-806-28	TRANSISTOR 2SC3402			
Q102	8-729-806-28	TRANSISTOR 2SC3402			
Q103	8-729-806-28	TRANSISTOR 2SC3402			
Q104	8-729-806-28	TRANSISTOR 2SC3402			
Q105	8-729-806-28	TRANSISTOR 2SC3402			
R001	1-249-429-11	CARBON	10K	5%	1/4W
R002	1-249-425-11	CARBON	4.7K	5%	1/4W
R003	1-249-425-11	CARBON	4.7K	5%	1/4W
R004	1-249-423-11	CARBON	3.3K	5%	1/4W
R005	1-249-431-11	CARBON	15K	5%	1/4W
R006	1-215-464-00	CARBON	62K	5%	1/4W
R007	1-249-417-11	CARBON	1K	5%	1/4W
R008	1-249-423-11	CARBON	3.3K	5%	1/4W
R009	1-249-425-11	CARBON	4.7K	5%	1/4W
R101	1-249-428-11	CARBON	8.2K	5%	1/4W
R102	1-215-450-00	CARBON	16K	5%	1/4W
R103	1-249-421-11	CARBON	2.2K	5%	1/4W
R104	1-214-092-00	METAL	22	1%	1/4W
R105	1-215-396-00	CARBON	91	5%	1/4W
R106	1-249-433-11	CARBON	22K	5%	1/4W
R107	1-249-417-11	CARBON	1K	5%	1/4W
R108	1-249-432-11	CARBON	18K	5%	1/4W
R109	1-249-432-11	CARBON	18K	5%	1/4W
R110	1-249-425-11	CARBON	4.7K	5%	1/4W
R111	1-249-425-11	CARBON	4.7K	5%	1/4W
R112	1-249-417-11	CARBON	1K	5%	1/4W
R113	1-215-472-00	CARBON	130K	5%	1/4W
R114	1-247-881-00	CARBON	120K	5%	1/4W
R115	1-215-472-00	CARBON	130K	5%	1/4W
R116	1-247-881-00	CARBON	120K	5%	1/4W
R117	1-249-381-11	CARBON	1	5%	1/4W
R118	1-249-393-11	CARBON	10	5%	1/4W

Ref.No.	Part No.	Description			
R119	1-215-472-00	CARBON	130K	5%	1/4W
R120	1-249-393-11	CARBON	10	5%	1/4W
R122	1-249-440-11	CARBON	82K	5%	1/4W
R123	1-215-479-00	CARBON	270K	5%	1/4W
R124	1-249-435-11	CARBON	33K	5%	1/4W
R125	1-249-393-11	CARBON	10	5%	1/4W
R126	1-249-423-11	CARBON	3.3K	5%	1/4W
R127	1-249-425-11	CARBON	4.7K	5%	1/4W
R128	1-249-393-11	CARBON	10	5%	1/4W
R129	1-249-429-11	CARBON	10K	5%	1/4W
R130	1-215-486-00	CARBON	510K	5%	1/4W
R131	1-249-433-11	CARBON	22K	5%	1/4W
R132	1-249-414-11	CARBON	560	5%	1/4W
R133	1-249-441-11	CARBON	100K	5%	1/4W
R134	1-215-434-00	METAL	3.6K	1%	1/6W
R135	1-249-441-11	CARBON	100K	5%	1/4W
R136	1-249-437-11	CARBON	47K	5%	1/4W
R137	1-249-436-11	CARBON	39K	5%	1/4W
R138	1-249-393-11	CARBON	10	5%	1/4W
R139	1-249-381-11	CARBON	1	5%	1/4W
R140	1-249-429-11	CARBON	10K	5%	1/4W
R141	1-215-493-00	CARBON	1M	5%	1/4W
R142	1-249-433-11	CARBON	22K	5%	1/4W
R143	1-249-441-11	CARBON	100K	5%	1/4W
R144	1-249-441-11	CARBON	100K	5%	1/4W
R145	1-249-429-11	CARBON	10K	5%	1/4W
R146	1-215-469-00	METAL	100K	1%	1/6W
R147	1-215-469-00	METAL	100K	1%	1/6W
R150	1-249-429-11	CARBON	10K	5%	1/4W
R151	1-249-417-11	CARBON	1K	5%	1/4W
R152	1-249-417-11	CARBON	1K	5%	1/4W
R153	1-249-417-11	CARBON	1K	5%	1/4W
R154	1-249-417-11	CARBON	1K	5%	1/4W
R155	1-249-429-11	CARBON	10K	5%	1/4W
R163	1-249-438-11	CARBON	56K	5%	1/4W
R164	1-249-424-11	CARBON	3.9K	5%	1/4W
R165	1-249-429-11	CARBON	10K	5%	1/4W
R166	1-249-417-11	CARBON	1K	5%	1/4W
R167	1-249-417-11	CARBON	1K	5%	1/4W
R168	1-249-417-11	CARBON	1K	5%	1/4W
R197	1-249-417-11	CARBON	1K	5%	1/4W
R201	1-215-493-00	CARBON	1M	5%	1/4W
R202	1-249-423-11	CARBON	3.3K	5%	1/4W
R203	1-215-454-00	CARBON	24K	5%	1/4W
R204	1-249-414-11	CARBON	560	5%	1/4W
R205	1-249-431-11	CARBON	15K	5%	1/4W
R206	1-249-431-11	CARBON	15K	5%	1/4W
R301	1-249-411-11	CARBON	330	5%	1/4W
R302	1-249-417-11	CARBON	1K	5%	1/4W
R303	1-249-417-11	CARBON	1K	5%	1/4W
R304	1-249-417-11	CARBON	1K	5%	1/4W
R305	1-259-434-11	CARBON	1.8K	5%	1/6W
R306	1-259-434-11	CARBON	1.8K	5%	1/6W
R307	1-259-488-11	CARBON	330K	5%	1/6W
R308	1-259-488-11	CARBON	330K	5%	1/6W
R309	1-259-424-11	CARBON	680	5%	1/6W
R310	1-259-424-11	CARBON	680	5%	1/6W

Ref.No.	Part No.	Description
R311	1-259-422-11	CARBON 560 5% 1/6W
R312	1-259-422-11	CARBON 560 5% 1/6W
R313	1-249-425-11	CARBON 4.7K 5% 1/4W
R314	1-249-425-11	CARBON 4.7K 5% 1/4W
R315	1-249-441-11	CARBON 100K 5% 1/4W
R316	1-249-441-11	CARBON 100K 5% 1/4W
R319	1-259-424-11	CARBON 680 5% 1/6W
R320	1-259-424-11	CARBON 680 5% 1/6W
R321	1-259-460-11	CARBON 22K 5% 1/6W
R322	1-259-460-11	CARBON 22K 5% 1/6W
R323	1-259-500-11	CARBON 1M 5% 1/6W
R324	1-259-500-11	CARBON 1M 5% 1/6W
R325	1-259-404-11	CARBON 100 5% 1/6W
R326	1-259-404-11	CARBON 100 5% 1/6W
R327	1-259-423-11	CARBON 620 5% 1/6W
R328	1-259-423-11	CARBON 620 5% 1/6W
R401	1-249-412-11	(AEP,UK)...CARBON 390 5% 1/4W
R402	1-215-396-00	(AEP,UK)...CARBON 91 5% 1/4W
R403	1-249-417-11	(AEP,UK)...CARBON 1K 5% 1/4W
R501	1-259-428-11	CARBON 1K 5% 1/6W
R502	1-259-428-11	CARBON 1K 5% 1/6W
R503	1-259-460-11	CARBON 22K 5% 1/6W
R504	1-259-460-11	CARBON 22K 5% 1/6W
R505	1-259-450-11	CARBON 8.2K 5% 1/6W
R506	1-259-450-11	CARBON 8.2K 5% 1/6W
R507	1-259-404-11	CARBON 100 5% 1/6W
R508	1-259-404-11	CARBON 100 5% 1/6W
R601	1-249-435-11	CARBON 33K 5% 1/4W
R602	1-249-435-11	CARBON 33K 5% 1/4W
R603	1-249-435-11	CARBON 33K 5% 1/4W
R604	1-249-435-11	CARBON 33K 5% 1/4W
R605	1-249-435-11	CARBON 33K 5% 1/4W
R606	1-249-435-11	CARBON 33K 5% 1/4W
R607	1-249-435-11	CARBON 33K 5% 1/4W
R608	1-249-425-11	CARBON 4.7K 5% 1/4W
R609	1-249-425-11	CARBON 4.7K 5% 1/4W
R610	1-249-425-11	CARBON 4.7K 5% 1/4W
R611	1-249-425-11	CARBON 4.7K 5% 1/4W
R612	1-249-421-11	CARBON 2.2K 5% 1/4W
RV101	1-228-995-00	RES, ADJ, CARBON 22K (E-F BALANCE)
RV102	1-228-993-00	RES, ADJ, CARBON 4.7K (FOCUS BAIS)
RV103	1-228-995-00	RES, ADJ, CARBON 22K (FOCUS GAIN)
RV104	1-228-995-00	RES, ADJ, CARBON 22K (TRAKING GAIN)
RV105	1-228-990-00	RES, ADJ, METAL GLAZE 1K (RF PLL)
RV501	1-237-789-11	RES, VAR, CARBON 20K/20K (LEVEL)
S1	1-554-303-21	SWITCH, KEY BOARD (PROGRAM)
S2	1-554-303-21	SWITCH, KEY BOARD (SHUFFLE)
S3	1-554-303-21	SWITCH, KEY BOARD (CONTINUE)
S4	1-554-303-21	SWITCH, KEY BOARD (▷)
S5	1-554-303-21	SWITCH, KEY BOARD ()
S6	1-554-303-21	SWITCH, KEY BOARD (■)
S7	1-554-303-21	SWITCH, KEY BOARD (REPEAT)
S8	1-554-303-21	SWITCH, KEY BOARD (AUTO SPACE)
S9	1-554-303-21	SWITCH, KEY BOARD (DISPLAY)
S10	1-554-303-21	SWITCH, KEY BOARD (OPEN/CLOSE)
S11	1-554-303-21	SWITCH, KEY BOARD (◀◀)
S12	1-554-303-21	SWITCH, KEY BOARD (▶▶)

Ref.No.	Part No.	Description
S13	1-554-303-21	SWITCH, KEY BOARD (CHECK)
S14	1-554-303-21	SWITCH, KEY BOARD (◀◀)
S15	1-554-303-21	SWITCH, KEY BOARD (▶▶)
S16	1-554-303-21	SWITCH, KEY BOARD (CLEAR)
S17	1-554-303-21	SWITCH, KEY BOARD (1)
S18	1-554-303-21	SWITCH, KEY BOARD (2)
S19	1-554-303-21	SWITCH, KEY BOARD (3)
S20	1-554-303-21	SWITCH, KEY BOARD (4)
S21	1-554-303-21	SWITCH, KEY BOARD (5)
S22	1-554-303-21	SWITCH, KEY BOARD (6)
S23	1-554-303-21	SWITCH, KEY BOARD (7)
S24	1-554-303-21	SWITCH, KEY BOARD (8)
S25	1-554-303-21	SWITCH, KEY BOARD (9)
S26	1-554-303-21	SWITCH, KEY BOARD (10)
S27	1-554-303-21	SWITCH, KEY BOARD (11)
S28	1-554-303-21	SWITCH, KEY BOARD (12)
S29	1-554-303-21	SWITCH, KEY BOARD (13)
S30	1-554-303-21	SWITCH, KEY BOARD (14)
S31	1-554-303-21	SWITCH, KEY BOARD (15)
S32	1-554-303-21	SWITCH, KEY BOARD (16)
S33	1-554-303-21	SWITCH, KEY BOARD (17)
S34	1-554-303-21	SWITCH, KEY BOARD (18)
S35	1-554-303-21	SWITCH, KEY BOARD (19)
S36	1-554-303-21	SWITCH, KEY BOARD (20)
S37	1-554-303-21	SWITCH, KEY BOARD (>20)
S251	1-571-300-11	SWITCH, ROTARY (LOADING IN/OUT)
S252	1-571-274-11	SWITCH, LEAF (LIMIT IN)
S701	1-571-305-11	SWITCH, PUSH (1 KEY)(POWER)
S902	△.1-571-309-11	(E)...SWITCH (VOLTAGE SELECTOR)
T901	△.1-449-025-11	(AEP,UK)...TRANSFORMER, POWER
T901	△.1-449-026-11	(E).....TRANSFORMER, POWER
X301	1-567-908-11	(E).....VIBRATOR, CRYSTAL
X301	1-567-926-11	(AEP,UK)...VIBRATOR, CRYSTAL
X601	1-567-686-11	OSCILLATOR, CERAMIC

ACCESSORY & PACKING MATERIAL

1-463-923-11	REMOTO COMMANDER (RM-D450)
1-558-543-11	CORD, CONNECTION
3-312-970-00	SHEET, PROTECTION
3-769-585-11	MANUAL, INSTRUCTION
3-769-585-41	(AEP)...MANUAL, INSTRUCTION
3-795-629-11	(AEP)...INSTRUCTION
4-921-935-01	CUSHION
4-922-417-01	LID, BATTERY CASE (FOR RM-D450)
*4-922-631-01	INDIVIDUAL CARTON

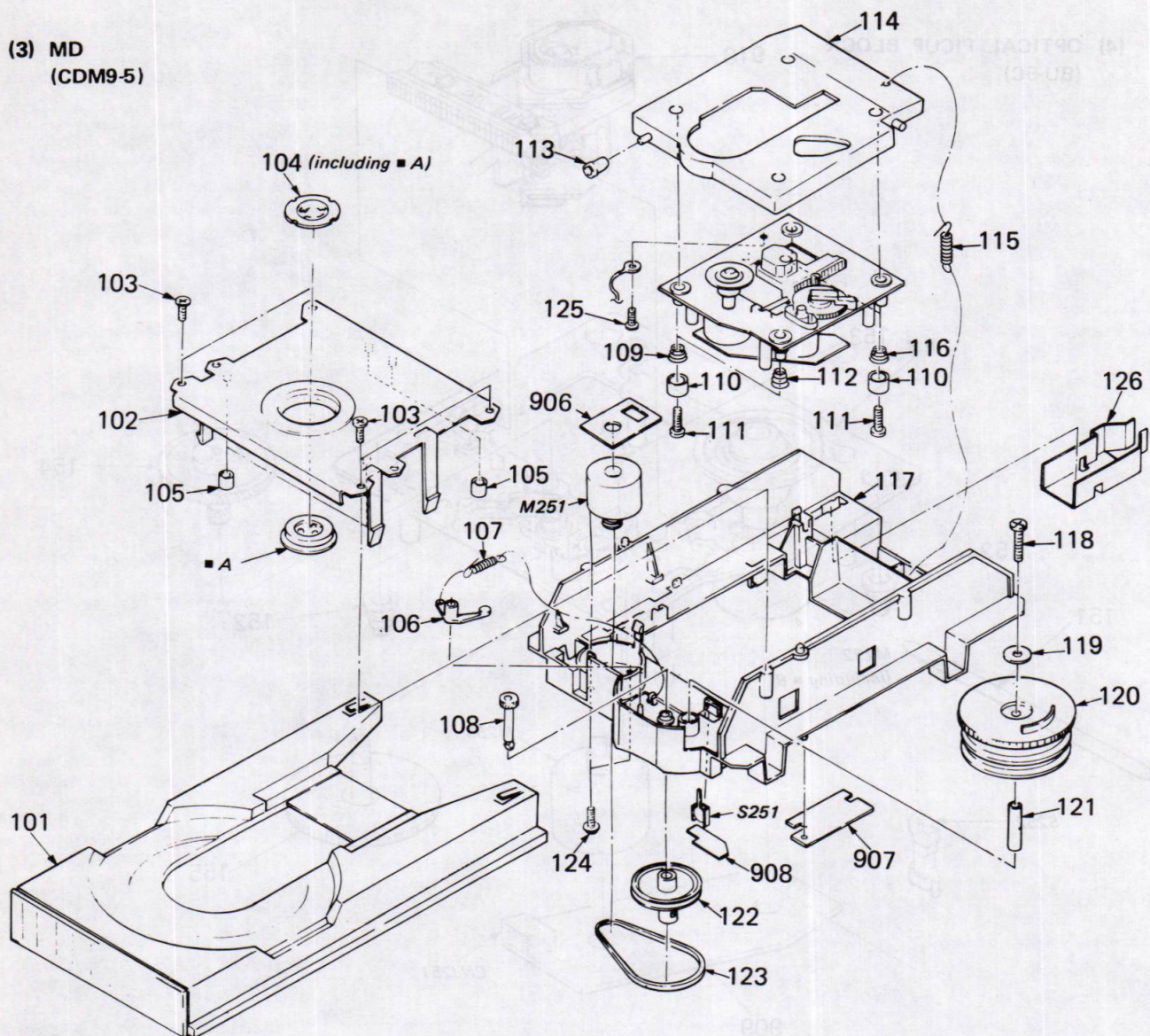
The components identified by shading and mark △ are critical for safety. Replace only with part number specified.

Troubleshooting

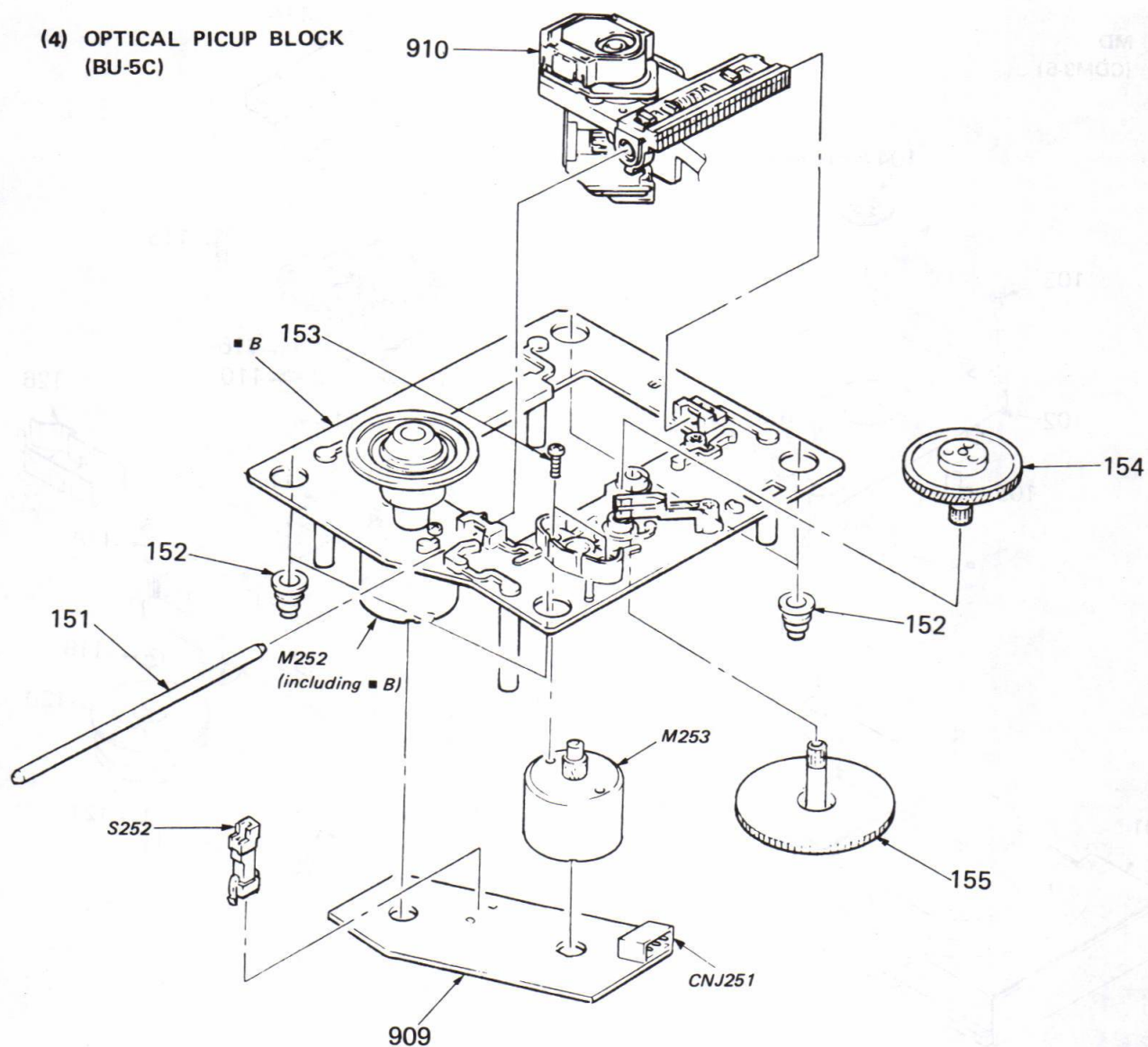
The following checks will assist in the correction of most problems which you may encounter with your unit. Before going through the check list below, first refer back to the connection and operating procedures.

Should any problem persist after you have made these checks, consult your nearest Sony service facility.

Symptom	Cause	Countermeasures
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 correctly.
	The button has been pressed.	Press 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.

(3) MD
(CDM9-5)

No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
101	*4-922-515-01	TABLE, DISK		116	4-917-507-01	SPRING (H)	
102	*4-922-510-01	REINFORCEMENT		117	*4-922-516-01	CHASSIS (MD)	
103	7-685-646-79	SCREW +BTP 3X8 TYPE2 N-S		118	7-685-552-19	SCREW +BTP 3X25 TYPE2 N-S	
104	A-4665-012-C	MAGNET ASSY		119	0-056-028-00	WASHER, PLAIN, 14 DIA.	
105	*3-576-990-01	CUSHION		120	4-922-511-01	GEAR (LOADING)	
106	4-917-519-01	LEVER, SET		121	*4-917-523-01	COLLAR, CAM	
107	4-917-514-01	SPRING, TENSION		122	4-922-512-01	PULLEY	
108	4-922-508-01	GEAR (DRIVING)		123	4-917-522-01	BELT	
109	4-917-541-01	SPRING (B)		124	7-621-759-40	+PSW, 2.6X6	
110	4-917-508-01	HOLDER, SP		125	7-621-770-67	SCREW +BVTT 2.6X6 (S)	
111	7-685-535-19	SCREW +BTP 2.6X10 TYPE2 N-S		126	4-923-541-11	SPRING	
112	4-918-669-01	SPRING (W)		906	*1-624-324-11	PC BOARD, L.MOTOR	
113	4-917-515-01	ROLLER		907	*1-624-325-11	PC BOARD, TRANSLATION 5	
114	*4-922-514-01	BRACKET (BU-5)		908	*1-624-323-11	PC BOARD, IN/OUT SW	
115	4-917-526-01	SPRING, TENSION		M251	A-4608-346-A	MOTOR ASSY, L	
				S251	1-571-300-11	SWITCH, ROTARY (LOADING IN/OUT)	

(4) OPTICAL PICKUP BLOCK
(BU-5C)

No.	Part No.	Description	Remarks
151	4-917-565-01	SHAFT, SLED	
152	4-917-562-01	INSULATOR	
153	7-621-255-15	SCREW +P 2X3	
154	4-917-567-01	GEAR (M)	
155	4-917-564-01	GEAR (P), FLATNESS	

No.	Part No.	Description	Remarks
909	*1-624-322-11	PC BOARD, SL/SP MOTOR	
910	A.8-848-062-01	DEVICE, OPTICS (KSS-150A)	
	CNJ251*1-564-720-21	PIN, CONNECTOR (SMALL TYPE) 4P	
	M252	X-4917-523-1	ASSY, MOTOR (SPINDLE)
	M253	X-4917-504-1	ASSY, MOTOR (SLED)
	S252	1-571-274-11	SWITCH, LEAF (LIMIT IN)

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

SECTION 4 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 PF.

RESISTORS

- All resistors are in ohms.
- F: nonflammable

COILS

- MMH: mH, UH: μ H

SEMICONDUCTORS

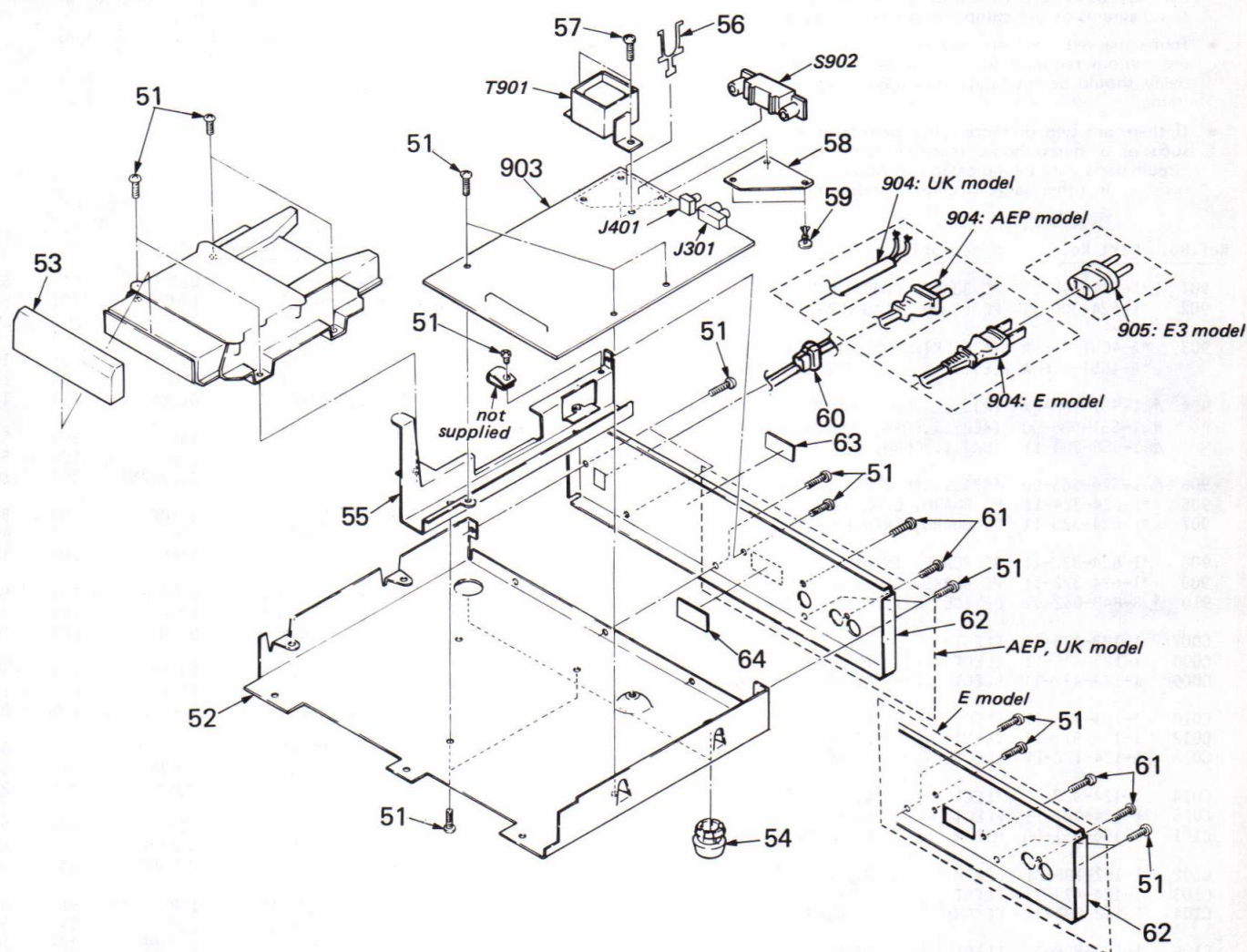
In each case, U: μ , for example:UA...: μ A..., UPA...: μ PA...,UPC...: μ PC, UPD...: μ PD...

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

Ref.No.	Part No.	Description
901	*1-624-299-11	PC BOARD, FUNCTION
902	*1-624-300-11	PC BOARD, HEADPHONE
903	*A-4651-175-A	(AEP,UK)...MOUNTED PCB, MAIN
	*A-4651-176-A	(E).....MOUNTED PCB, MAIN
904	 A.1-551-188-XX	(E)....CORD, POWER
	 A.1-551-908-00	(AEP)...CORD, POWER, EULO PLUG
	 A.1-558-204-11	(UK)....CORD, POWER
905	 A.1-526-565-00	(E3)....AC PLUG ADAPTOR
906	*1-624-324-11	PC BOARD, L.MOTOR
907	*1-624-325-11	PC BOARD, TRANSLATION 5
908	*1-624-323-11	PC BOARD, IN/OUT SW
909	*1-624-322-11	PC BOARD, SL/SP MOTOR
910	 A.8-848-062-01	DEVICE, OPTICS (KSS-150A)
C007	1-123-875-11	ELECT 10MF 20% 50V
C008	1-123-875-11	ELECT 10MF 20% 50V
C009	1-124-472-11	ELECT 470MF 20% 6.3V
C010	1-124-472-11	ELECT 470MF 20% 6.3V
C012	1-124-919-11	ELECT 220MF 20% 63V
C013	1-124-122-11	ELECT 100MF 20% 50V
C014	1-124-927-11	ELECT 4.7MF 20% 50V
C015	1-124-927-11	ELECT 4.7MF 20% 50V
C101	1-106-351-00	MYLAR 0.0022MF 5% 50V
C102	1-162-198-31	CERAMIC 8.2PF 10% 50V
C103	1-124-477-11	ELECT 47MF 20% 16V
C104	1-162-294-31	CERAMIC 0.001MF 10% 50V
C105	1-124-898-11	ELECT 4700MF 20% 16V
C106	1-124-887-00	ELECT 3300MF 20% 16V
C107	1-124-477-11	ELECT 47MF 20% 16V
C108	1-161-375-00	CERAMIC 0.0022MF 30% 16V
C109	1-130-489-00	MYLAR 0.033MF 5% 50V
C110	1-130-483-00	MYLAR 0.01MF 5% 50V
C111	1-124-908-11	ELECT 22MF 20% 25V
C112	1-124-477-11	ELECT 47MF 20% 16V
C113	1-162-294-31	CERAMIC 0.001MF 10% 50V
C114	1-162-294-31	CERAMIC 0.001MF 10% 50V
C115	1-162-851-11	CERAMIC 0.1MF 20% 16V
C116	1-124-908-11	ELECT 22MF 20% 25V
C117	1-124-477-11	ELECT 47MF 20% 16V
C118	1-130-768-00	FILM 0.1MF 5% 63V
C119	1-130-489-00	MYLAR 0.033MF 5% 50V
C120	1-161-329-00	CERAMIC 0.0068MF 20% 16V
C121	1-162-851-11	CERAMIC 0.1MF 20% 16V
C122	1-123-382-00	ELECT 3.3MF 20% 50V

Ref.No.	Part No.	Description
C123	1-130-768-00	FILM 0.1MF 5% 63V
C124	1-123-875-11	ELECT 10MF 20% 50V
C125	1-124-908-11	ELECT 22MF 20% 25V
C126	1-162-851-11	CERAMIC 0.1MF 20% 16V
C127	1-124-908-11	ELECT 22MF 20% 25V
C128	1-162-851-11	CERAMIC 0.1MF 20% 16V
C129	1-124-499-11	ELECT 1MF 20% 50V
C130	1-124-499-11	ELECT 1MF 20% 50V
C131	1-161-377-00	CERAMIC 0.0047MF 30% 16V
C132	1-124-927-11	ELECT 4.7MF 20% 50V
C133	1-124-499-11	ELECT 1MF 20% 50V
C134	1-124-477-11	ELECT 47MF 20% 16V
C135	1-162-294-31	CERAMIC 0.001MF 10% 50V
C136	1-162-282-31	CERAMIC 100PF 10% 50V
C137	1-162-851-11	CERAMIC 0.1MF 20% 16V
C138	1-126-101-11	ELECT 100MF 20% 16V
C139	1-126-101-11	ELECT 100MF 20% 16V
C140	1-124-902-00	ELECT 0.47MF 20% 50V
C141	1-130-489-00	MYLAR 0.033MF 5% 50V
C142	1-124-902-00	ELECT 0.47MF 20% 50V
C143	1-124-908-11	ELECT 22MF 20% 25V
C144	1-124-908-11	ELECT 22MF 20% 25V
C145	1-130-772-00	FILM 0.22MF 5% 63V
C146	1-130-483-00	MYLAR 0.01MF 5% 50V
C147	1-162-199-31	CERAMIC 10PF 5% 50V
C148	1-162-199-31	CERAMIC 10PF 5% 50V
C149	1-161-379-00	CERAMIC 0.01MF 20% 16V
C162	1-162-294-31	CERAMIC 0.001MF 10% 50V
C163	1-130-489-00	MYLAR 0.033MF 5% 50V
C164	1-124-499-11	ELECT 1MF 20% 50V
C165	1-124-499-11	ELECT 1MF 20% 50V
C201	1-124-122-11	ELECT 100MF 20% 50V
C202	1-124-913-11	ELECT 470MF 20% 50V
C203	1-124-122-11	ELECT 100MF 20% 50V
C204	1-124-912-11	ELECT 330MF 20% 50V
C205	1-124-499-11	ELECT 1MF 20% 50V
C208	1-162-290-31	CERAMIC 470PF 10% 50V
C209	1-124-927-11	ELECT 4.7MF 20% 50V
C251	1-136-157-00	FILM 0.022MF 5% 50V
C252	1-106-351-00	MYLAR 0.0022MF 5% 50V
C253	1-106-351-00	MYLAR 0.0022MF 5% 50V
C302	1-162-203-11	(AEP,UK)...CERAMIC 15PF 5% 50V
C302	1-162-207-31	(E).....CERAMIC 22PF 5% 50V
C303	1-162-203-11	(AEP,UK)...CERAMIC 15PF 5% 50V
C303	1-162-207-31	(E).....CERAMIC 22PF 5% 50V

(2)



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
51	7-682-548-04	SCREW +BVTT 3X8 (S)		63	*4-885-838-00	LABEL, CLASS 1	
52	*4-921-903-51	CHASSIS		64	*4-922-939-01	(UK)...CUSHION	
53	4-922-908-01	PANEL, LOADING		903	*A-4651-175-A	(AEP,UK)...MOUNTED PCB, MAIN	
54	X-4921-901-1	FOOT ASSY			*A-4651-176-A	(E).....MOUNTED PCB, MAIN	
55	*4-922-911-01	CHASSIS (R)		904	⚠ 1-551-188-XX	(E).....CORD, POWER	
56	*1-535-688-11	TERMINAL			⚠ 1-551-908-00	(AEP)....CORD, POWER, EULO PLUG	
57	2-383-566-00	SCREW			⚠ 1-558-204-11	(UK).....CORD, POWER	
58	*4-922-902-01	SHEET, INSULATING		905	⚠ 1-526-565-00	(E3)...AC PLUG ADAPTOR	
59	4-818-403-21	RIVET, NYLON		J301	1-566-921-11	JACK, PIN 2P (LINE OUT)	
60	⚠ 3-703-244-00	(AEP,UK)...BUSHING (2104), CORD		J401	1-566-922-11	(AEP,UK)...JACK, PIN 1P (DIGITAL OUT)	
	⚠ 3-703-571-11	(E).....BUSHING (S)(4516), CORD		S902	⚠ 1-571-309-11	(E)...SWITCH (VOLTAGE SELECTOR)	
61	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S		T901	⚠ 1-449-025-11	(AEP,UK)....TRANSFORMER, POWER	
62	*4-922-910-11	(AEP)...PANEL, BACK			⚠ 1-449-026-11	(E).....TRANSFORMER, POWER	
	*4-922-910-21	(UK)....PANEL, BACK					
	*4-922-910-31	(E).....PANEL, BACK					

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