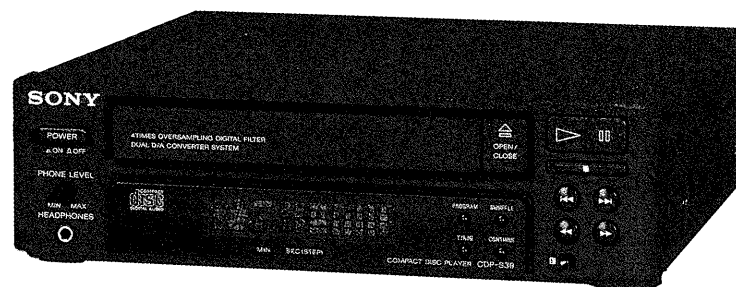


CDP-S39

SERVICE MANUAL

*E Model
Australian Model*



Model Name Using Similar Mechanism	CDP-H300
CD Transport Mechanism Type	CDM13A-5BD3
Optical Pick-Up Block Type	BU-5BD3

SPECIFICATIONS

Compact disc player

Frequency response	5 Hz—20 kHz (-0.5 dB)
Signal to noise ratio	More than 93 dB
Dynamic range	More than 88 dB
Harmonic distortion	Less than 0.05% (at 1 kHz)
Channel separation	More than 90 dB

Outputs

LINE OUT (FIXED) (phono jacks)	Output level 2 V (at 50 kilohms) Load impedance over 10 kilohms
HEADPHONES (stereo phone jack)	Output level max. 1 mW Load impedance 32 ohms

General

Power requirements	110~120 or 220~240 AC adjustable, 50/60 Hz
Power consumption	10 W
Dimensions (approx., including projections)	225 × 65 × 230 mm (w/h/d) (8 $\frac{3}{8}$ × 4 $\frac{3}{4}$ × 9 $\frac{1}{8}$ inches)
Weight (approx.)	2.0 kg (4 lb 7 oz)

Supplied accessories

Audio cord	1 (2 phono plugs—2 phono plugs)
Connecting cord	1
Remote commander	1
Sony SUM-3(NS) batteries	2

Remote commander Remote control system

Infrared control

Power requirements

3 V DC with two R6 (size AA)
batteries

Dimensions
Approx. 40 × 20 × 175 mm (w/h/d)
(1 $\frac{1}{8}$ × 1 $\frac{3}{16}$ × 7 inches)

Weight
Approx. 100 g (3.5 oz)
Including batteries

Design and specifications subject to change without
notice.



COMPACT DISC PLAYER
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 Power: less than 44.6 μW *
 - * 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).

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 from more than 30cm away from the objective lens.

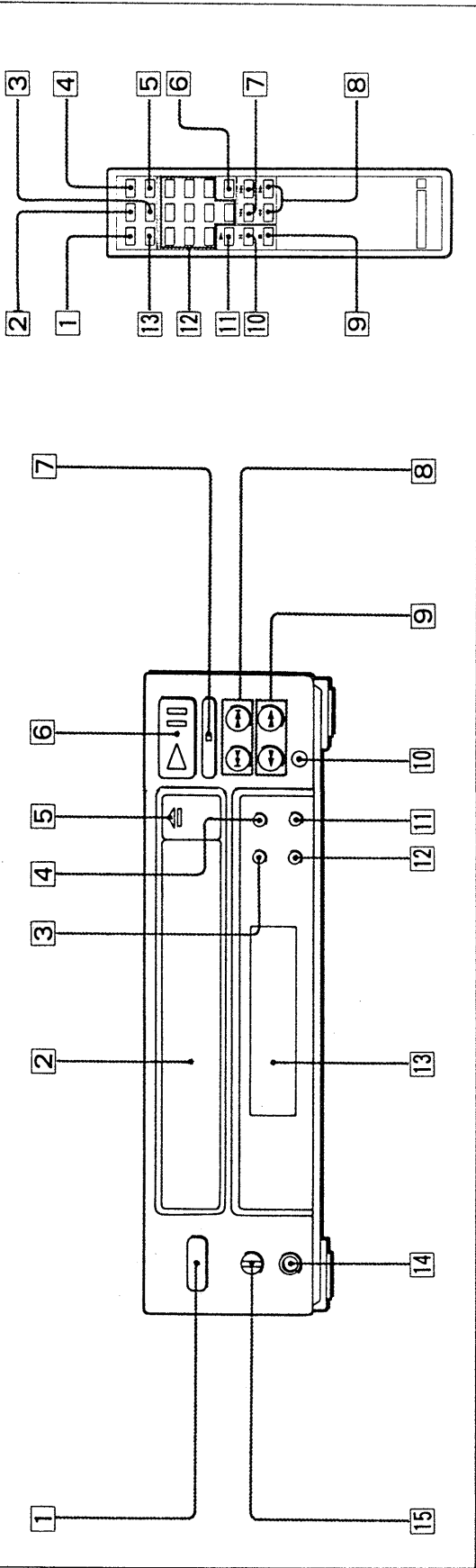
SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK \triangle OR DOTTED LINE WITH MARK \triangle 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.

SECTION 1 GENERAL

1-1. LOCATION OF CONTROLS

Front panel and remote commander



- 1 POWER switch
- 2 Disc compartment
- 3 PROGRAM button
- 4 SHUFFLE button
- 5 ▲ (open/close) button
- 6 ►|| (play/pause) button
- 7 ■ (stop) button
- 8 ◀◀◀▶▶▶ (AMS) buttons
- 9 ◀◀ (manual search) buttons
- 10 Remote control sensor
- 11 CONTINUE button
- 12 TIME button
- 13 Display window
- 14 HEADPHONES jack
- 15 PHONE LEVEL (headphone Level) control

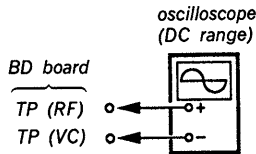
- 1 REPEAT button
- 2 TIME button
- 3 SHUFFLE button
- 4 FADER button
- 5 PGM (program) button
- 6 >10 (over 10) button
- 7 ◀◀◀▶▶▶ (manual search) buttons
- 8 ◀◀ (stop) button
- 9 || (pause) button
- 10 ▶ (play) button
- 11 Numeric buttons
- 13 CONTINUE button

SECTION 2 ELECTRICAL ADJUSTMENTS

1. Perform adjustments in the order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use the oscilloscope with more than 10MΩ impedance.

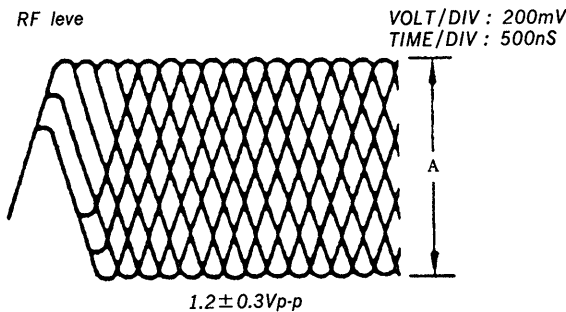
RF Level Check

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.

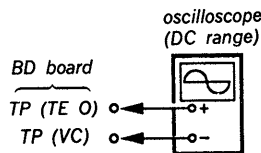
RF signal Reference Waveform (eye pattern)



REFERENCE

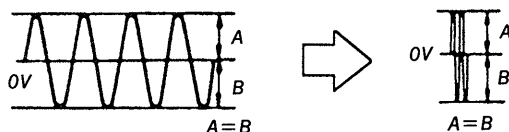
E-F Balance Check

Procedure :



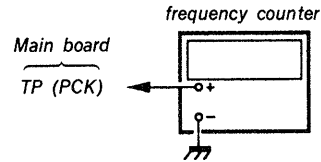
1. Connect test point TP (ADJ) to ground and TP (TES) to TP (VC) with lead wire.
2. Connect oscilloscope to test point TP (TE O) and TP (VC) on BD board.
3. Turn POWER switch on.
4. Put disc (YEDS-18) in and play back.
5. Confirm that the oscilloscope waveform is symmetrical on the top and bottom in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

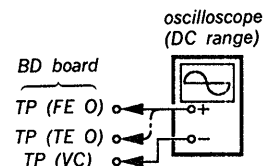
	Gain	Focus	Tracking
Symptoms			
• The time until music starts becomes longer for STOP → ▷ PLAY or automatic selection. (◀◀, ▶▶ buttons pressed.) (Normally takes about 1 seconds.)		low	low or high
• Music does not start and disc continues to rotate for STOP → ▷ PLAY or automatic selection. (◀◀, ▶▶ buttons 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.

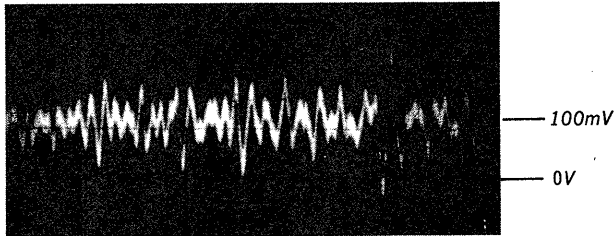
If the positions after the primary adjustment are only a little different, returns the controls the original position.



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)

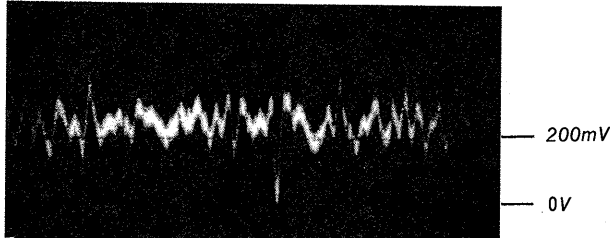
VOLT/DIV : 100mV
TIME/DIV : 2mS



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

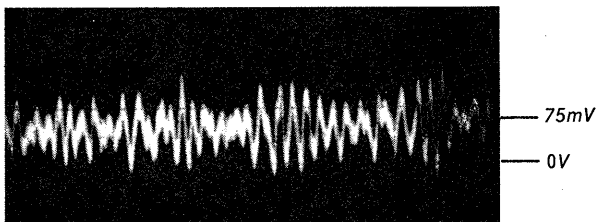
low focus gain

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



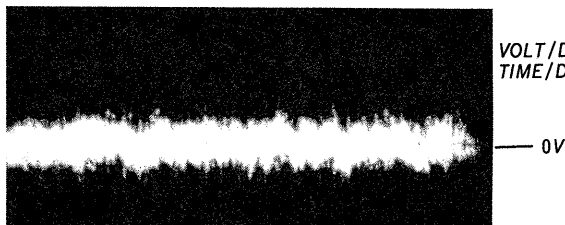
high focus gain

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



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

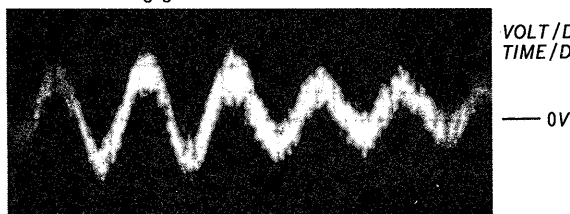
VOLT/DIV : 1V
TIME/DIV : 2mS



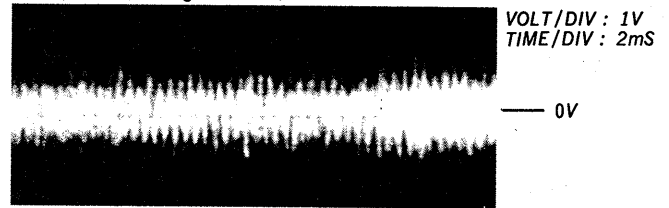
• Incorrect Examples (fundamentia wave appears)

low tracking gain

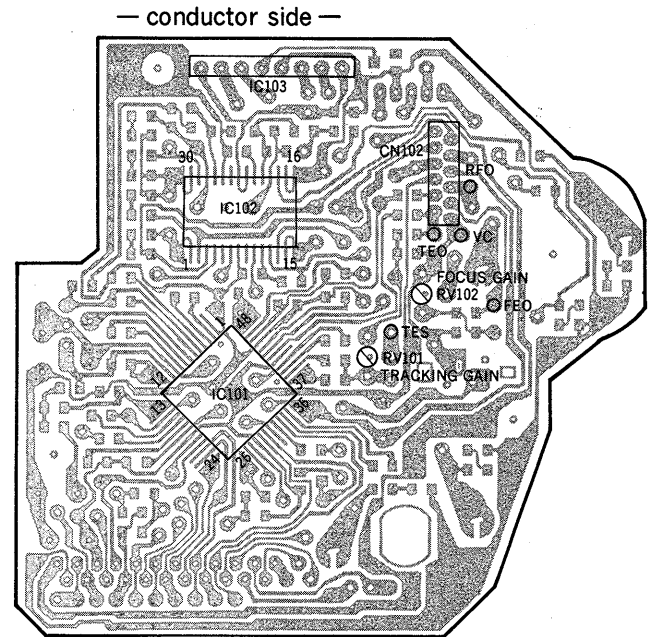
VOLT/DIV : 1V
TIME/DIV : 2mS



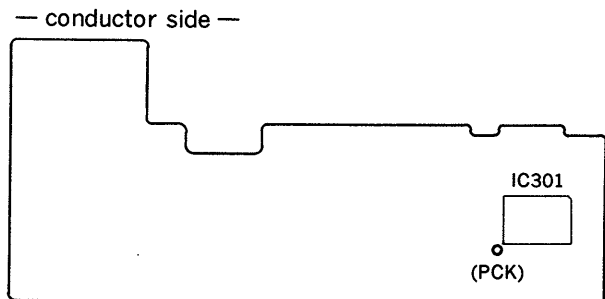
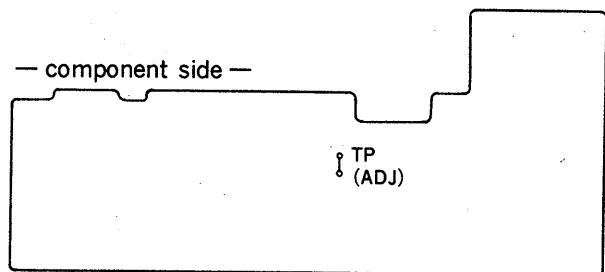
high tracking gain
(high fundamental wave
than for low gain)



**Adjustment Locations :
[BD board]**



[Main board]



SECTION 3
DIAGRAMS

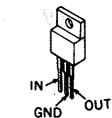
3-2. PRINTED WIRING BOARDS

3-1. SEMICONDUCTOR LEAD LAYOUTS

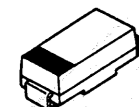
• Semiconductor Location

Ref. No.	Location
D201	F-2
D401	H-15
D402	H-14
D403	H-16
D404	H-17
D412	H-13
D901	D-10
D902	D-10
D903	D-10
D904	D-10
D905	D-9
D906	F-9
D907	F-9
D909	D-9
IC101	F-6
IC102	F-7
IC221	D-2
IC222	C-2
IC223	B-2
IC224	B-4
IC253	F-2
IC301	H-2
IC401	H-13
IC901	F-9
IC902	D-9
IC903	E-9
Q101	F-5
Q231	B-2
Q232	B-2
Q252	E-3
Q253	E-3
Q901	E-9
Q902	E-10
Q903	E-9
Q904	E-9
Q906	D-9

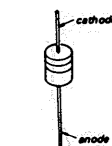
M5F7807



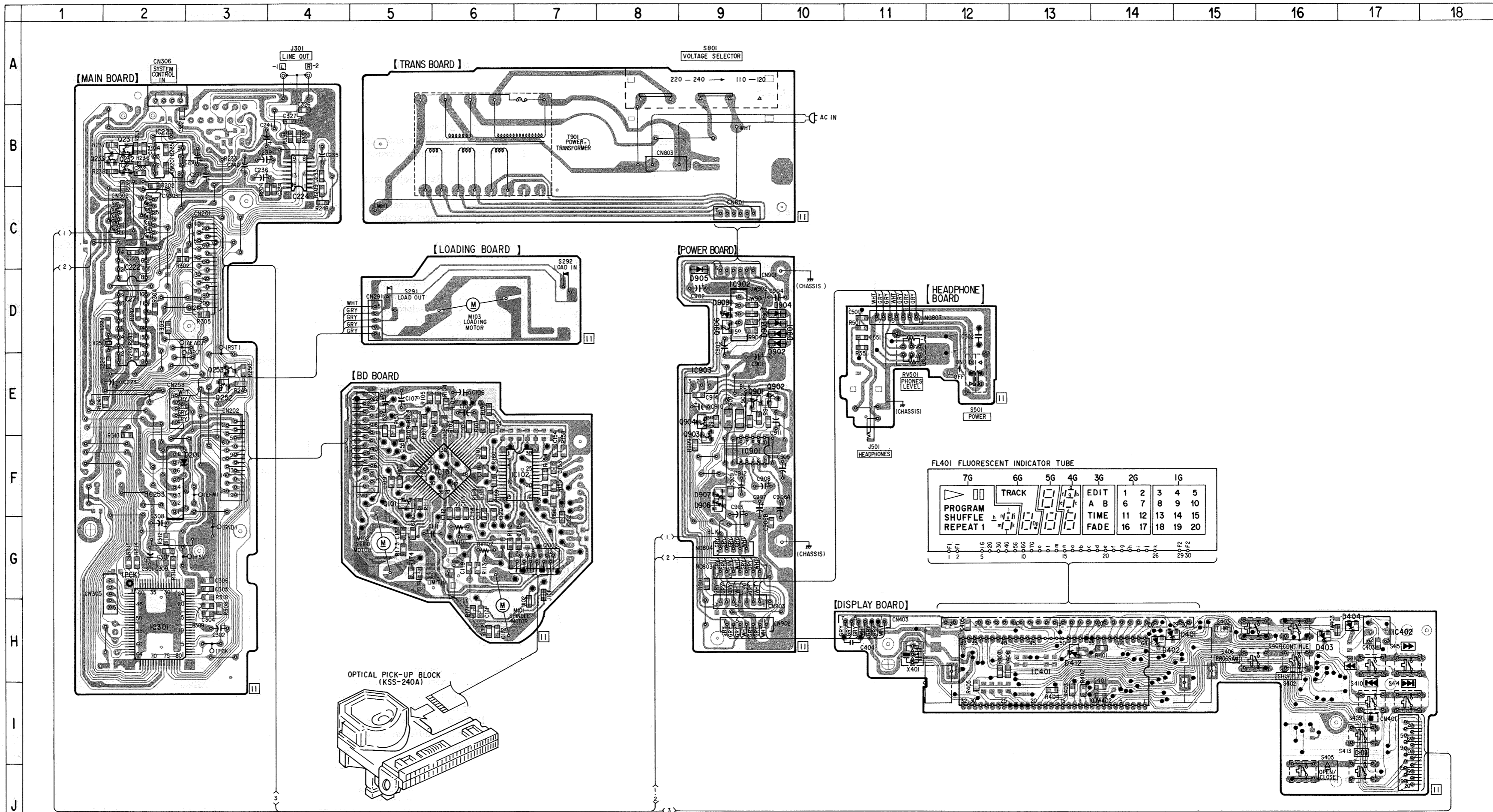
EC10DS2

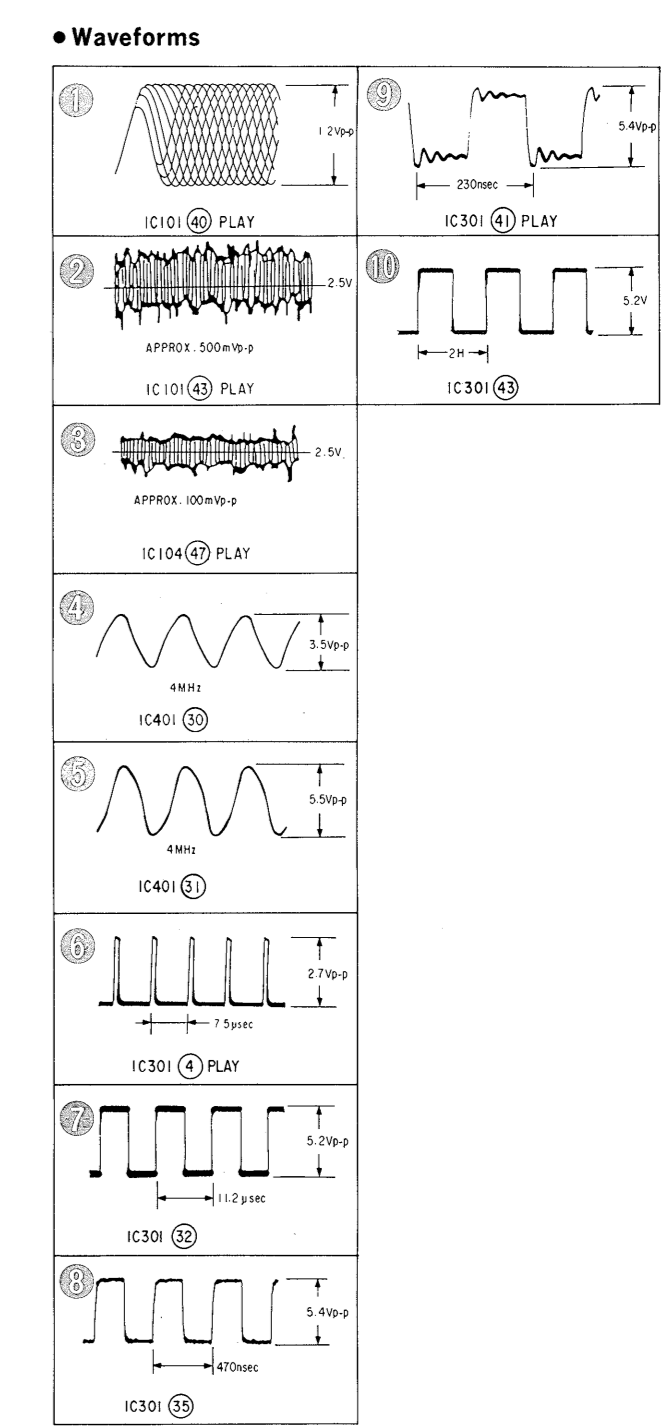
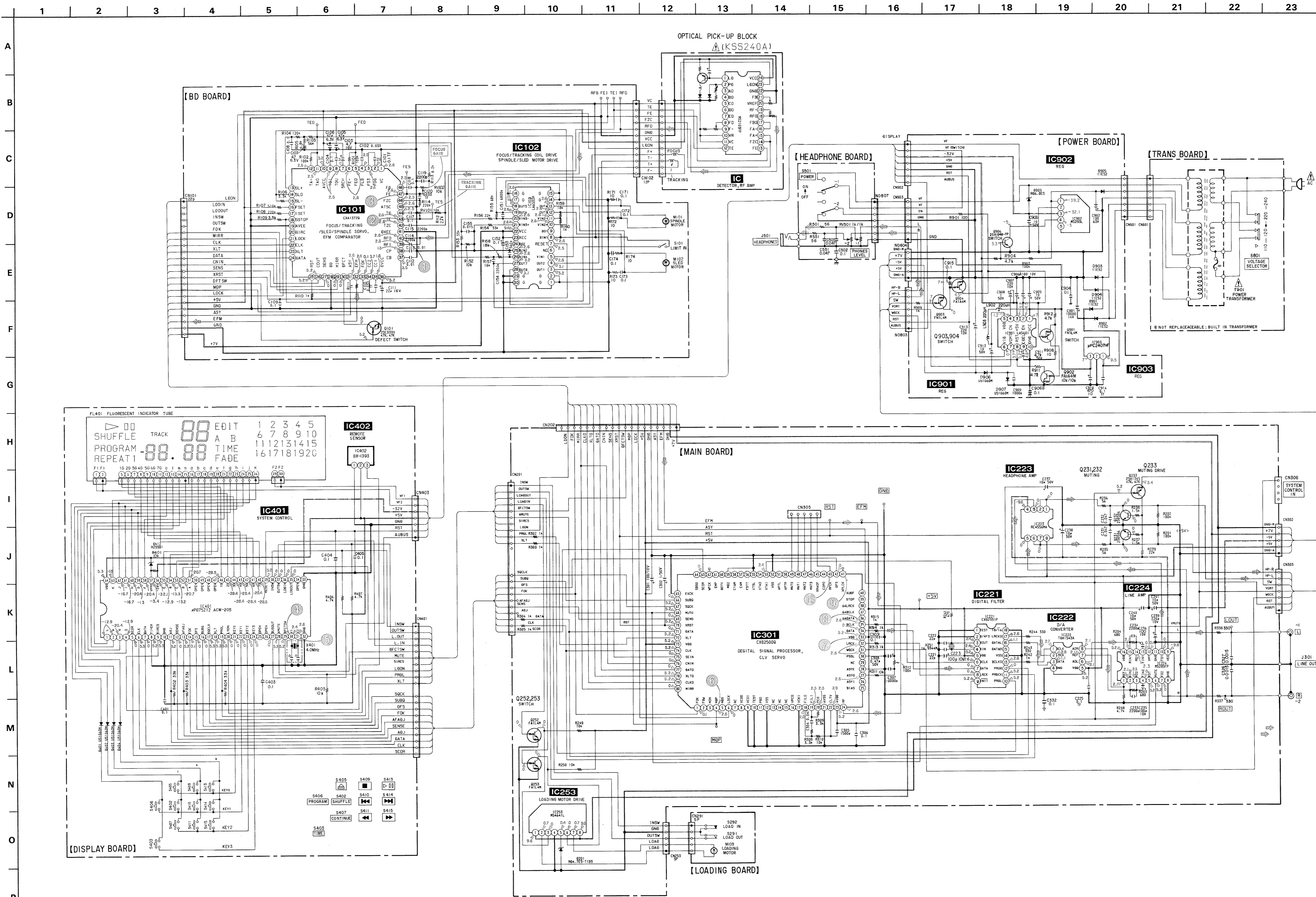


UZ-4.7BSC
1SS120



Note:
 ○ : parts extracted from the component side.
 ● : Through hole.
 ◐ : Pattern on the side which is seen.
 ◑ : Pattern of the rear side.





Note:

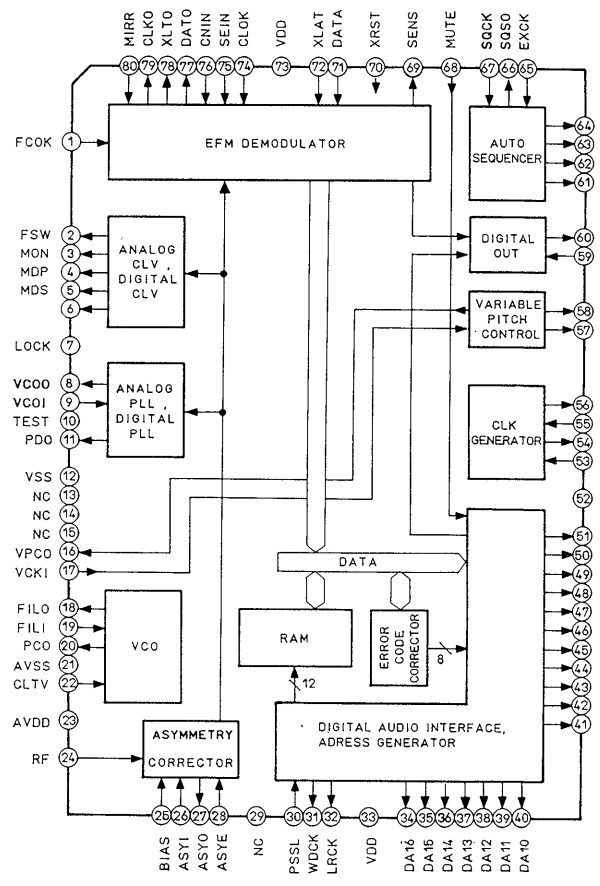
- All capacitors are in μF unless otherwise noted. $\text{pF} = \mu\text{F} \times 1000$ or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $1/4\text{W}$ or less unless otherwise specified.
- Δ : internal component.

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

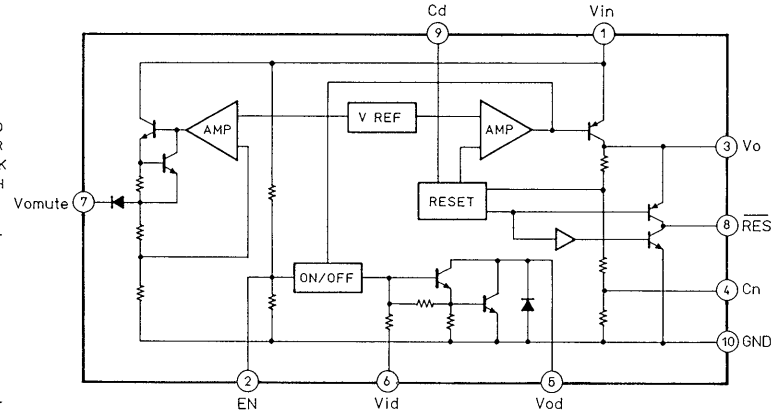
- \square : B+ Line
- \square : B- Line
- \square : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal conditions. no mark: STOP
- Voltages are taken with a VOM (input Impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with an oscilloscope.
- Circled numbers refer to waveforms.
- Signal path.
- \Rightarrow : CD

• IC Block Diagrams

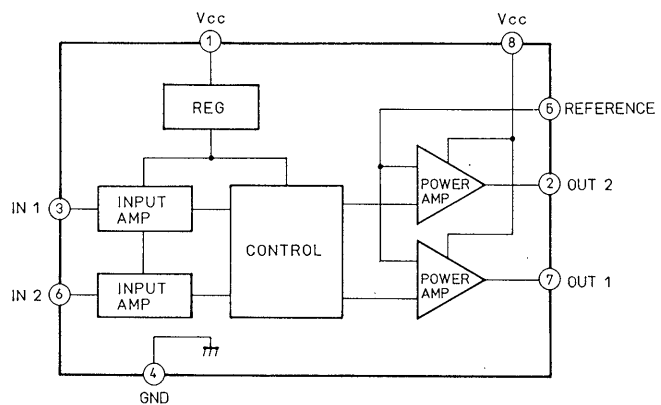
IC301 CXD2500Q



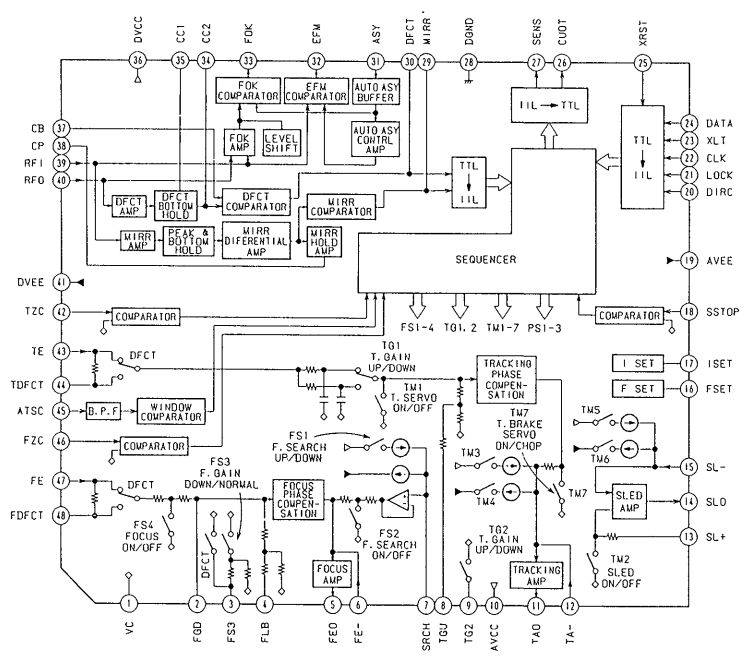
IC901 LA5601



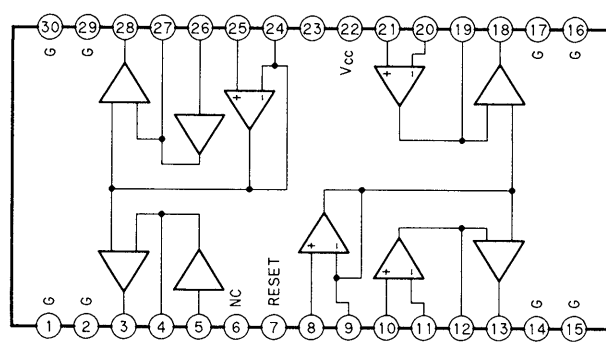
IC253 M54641L



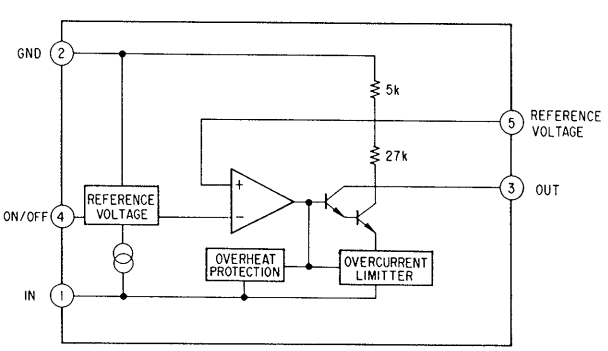
IC101 CXA1372Q



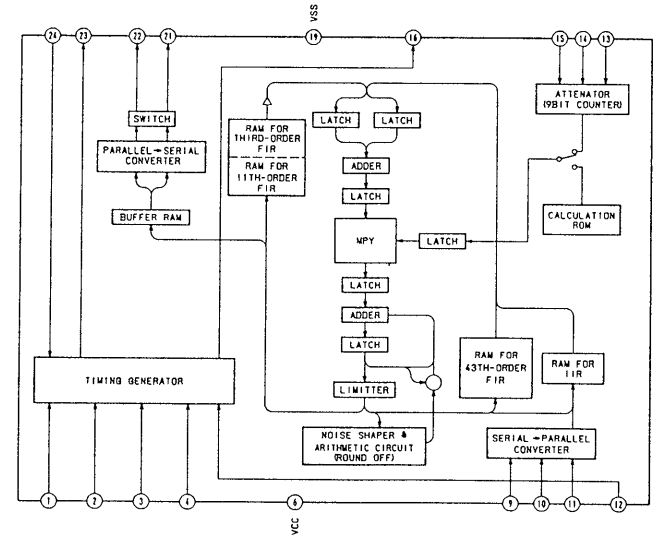
IC102 LA6532M



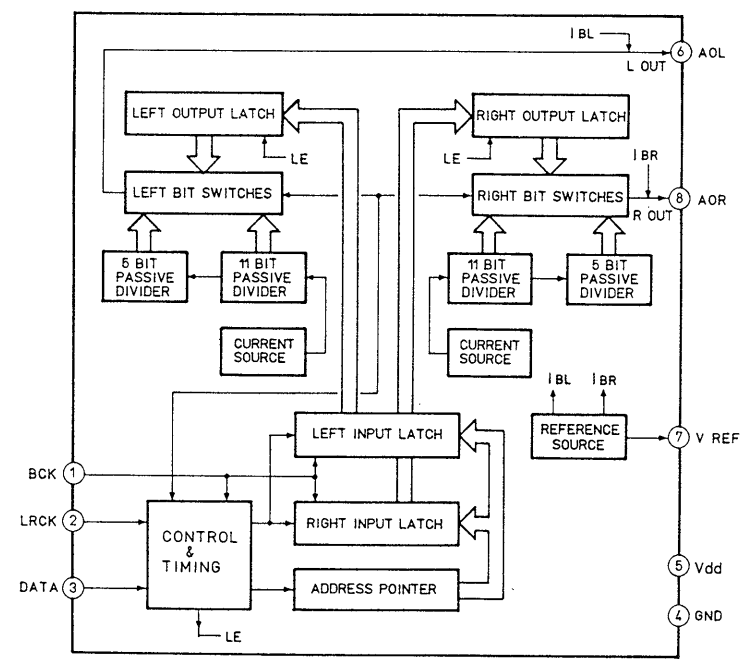
IC902 M5293L



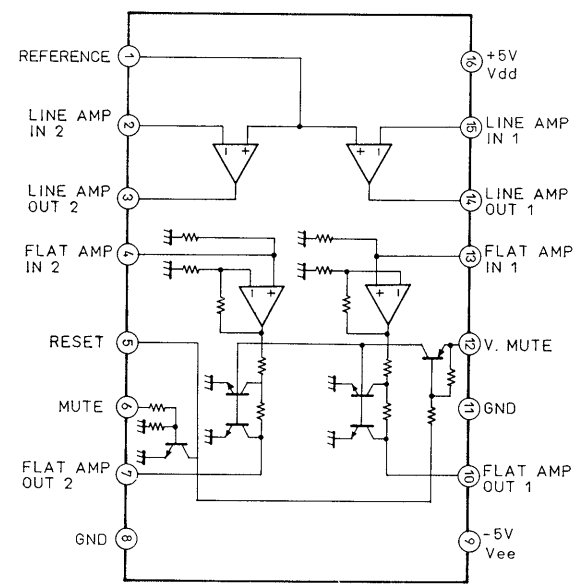
IC221 CXD2551P



IC222 TDA1543A



IC224 M5285FP



SECTION 4 EXPLODED VIEWS

NOTE:

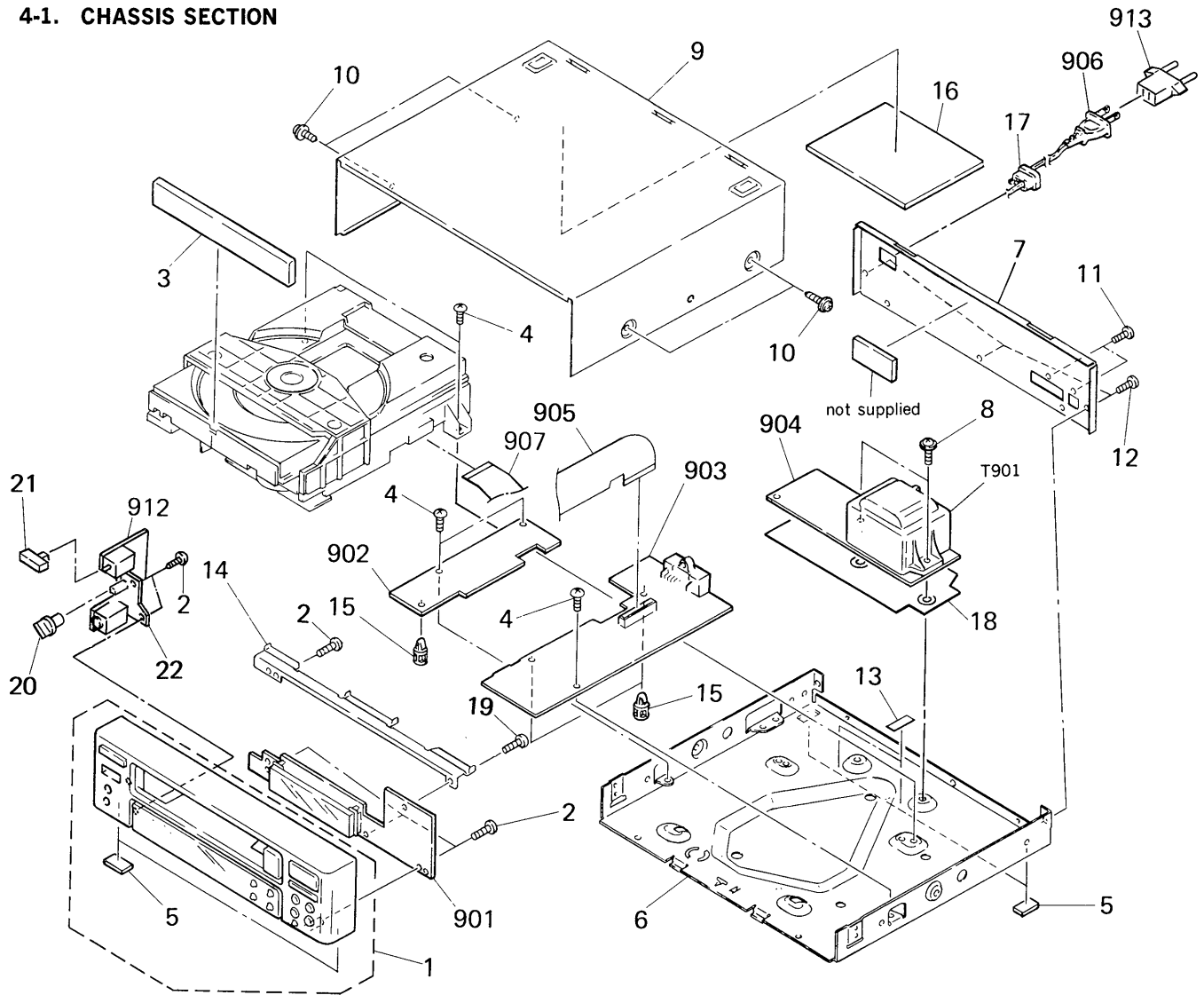
- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be 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.

- EA: Saudi Arabia model
- AUS: Australian model

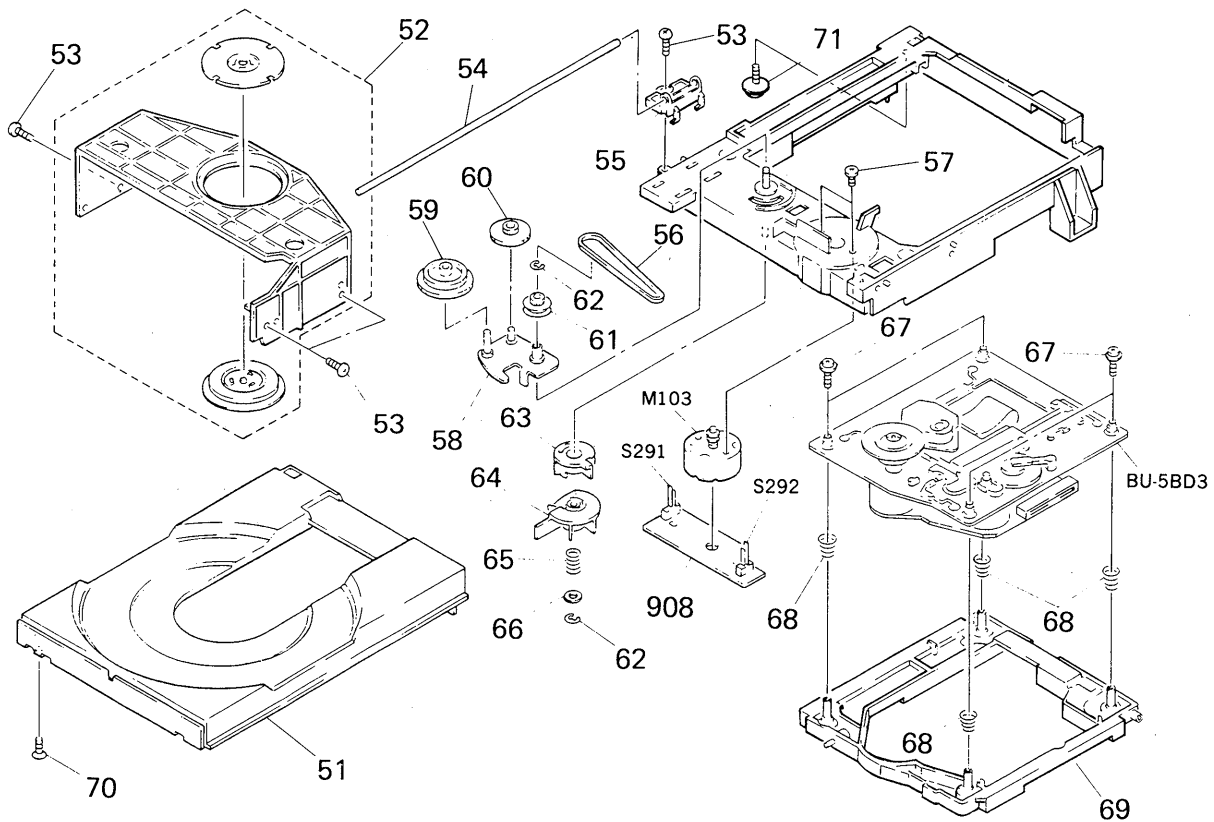
4-1. CHASSIS SECTION



Ref.No	Part No.	Description	Remarks
1	X-4929-713-1	PANEL ASSY, FRONT	5
2	7-685-134-19	SCREW +BTP 2.6X8 TYPE2 N-S	
3	4-929-753-11	PANEL, LOADING	
4	7-682-547-04	SCREW +BVTT 3X6 (S)	
5	4-930-336-01	FOOT (FELT)	
6	★4-929-757-01	CHASSIS	
7	★4-929-750-51	PANEL, BACK	
8	4-929-742-01	SCREW (3X10), +P TTWH	
9	4-932-844-31	CASE	
10	3-704-366-01	SCREW (CASE) (M3X8)	
11	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
12	7-682-547-09	SCREW +BVTT 3X6 (S)	
13	3-831-441-XX	CUSHION (B), CABINET	
14	★4-929-752-01	REINFORCEMENT	
15	3-682-057-11	SPACER (SMALL)	
16	★4-929-740-01	DUMPER	
17	★3-703-571-11	BUSHING (S) (4516), CORD	

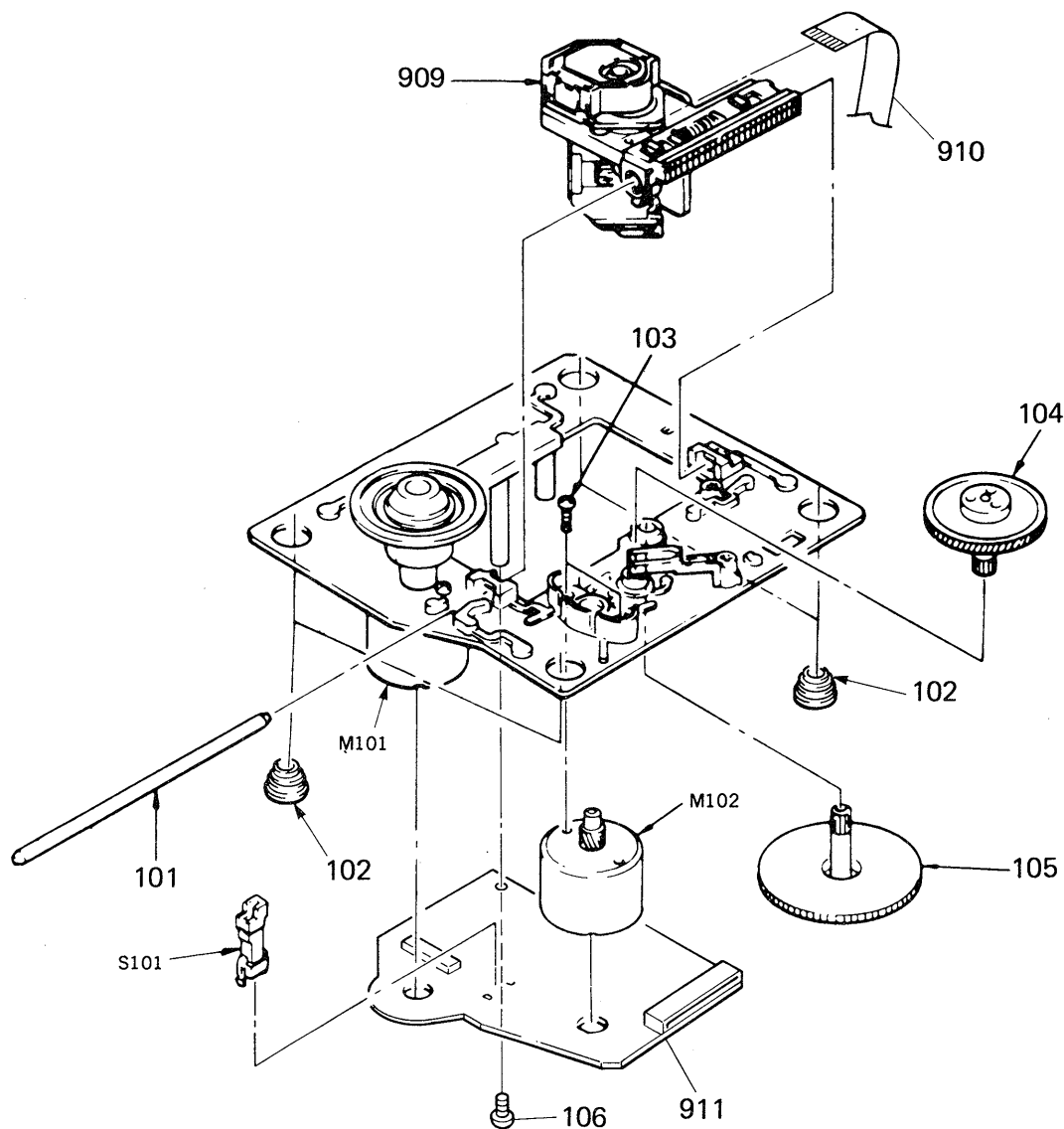
Ref.No	Part No.	Description	Remarks
18	★4-929-711-01	COVER (A), POWER	
19	7-685-135-19	SCREW +BTP 2.6X10 TYPE2 N-S	
20	4-929-707-01	KNOB (H.P)	
21	4-929-713-01	BUTTON (POWER)	
22	★4-929-706-01	BRACKET (H.P)	
901	★1-634-471-11	PC BOARD, DISPLAY	
902	★A-4617-484-A	MOUNTED PCB, POWER	
903	★A-4617-483-A	MOUNTED PCB, MAIN	
904	★1-634-469-11	PC BOARD, TRANS	
905	1-535-833-11	JUMPER, FILM (WITH TERMINAL)	
906	△1-575-104-11	(E)...CORD, POWER	
906	△1-575-453-11	(EA)...CORD, POWER	
906	△1-575-677-11	(AUS)...CORD, POWER	
907	1-535-845-11	JUMPER, FILM (WITH TERMINAL)	
912	★1-634-472-11	PC BOARD, HEADPHONE	
913	1-569 007 11	(E)...ADAPTER, CONVERSION 2P	
T901	△1-450-031-11	TRANSFORMER, POWER	

**4-2. CD MECHANISM SECTION
(CDM13A-5BD3)**



Ref.No	Part No.	Description	Remarks	Ref.No	Part No.	Description	Remarks
51	4-929-732-01	TABLE, DISK		64	4-929-729-01	CAM (B)	
52	A-4604-219-A	HOLDER (MG) ASSY		65	3-659-338-00	SPRING, COMPRESSION	
53	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S		66	4-927-654-01	WASHER (LIMITER)	
54	4-929-721-01	SHAFT		67	4-933-134-01	SCREW (+PTPWH M2.6X6)	
55	4-929-723-01	GUIDE (T)		68	4-917-541-01	SPRING (B)	
56	4-927-649-01	BELT		69	4-929-747-01	HOLDER (BU)	
57	7-621-775-10	SCREW +B 2.6X4		70	7-685-234-19	SCREW +KTP 2.6X8 TYPE2NON-SLIT	
58	X-4929-703-1	ARM ASSY, SWING		71	4-917-583-21	BRACKET, YOKE	
59	4-927-620-01	GEAR (P)		908	1-634-461-11	PC BOARD LOADING	
60	4-927-628-01	GEAR (C)		M103	A-4608-362-A	MOTOR (L) ASSY	
61	4-929-724-01	PULLEY (B)		S291	1-571-924-11	SWITCH, LEAF (LOAD OUT)	
62	7-624-105-04	STOP RING 2.3, TYPE -E		S292	1-571-924-11	SWITCH, LEAF (LOAD IN)	
63	4-929-727-01	CAM (A)					

4-3. OPTICAL PICK-UP BLOCK (BU-5BD3)



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

Ref.No	Part No.	Description	Remarks	Ref.No	Part No.	Description	Remarks
101	4-917-565-01	SHAFT, SLED		909	Δ 8-848-144-11	DEVICE, OPTICAL KSS-240A	
102	4-933-126-01	INSULATOR (A)		910	1-575-001-11	WIRE, FLAT TYPE (12 CORE)	
103	7-621-255-15	SCREW +P 2X3		911	*A-4617-371-A	MOUNTED PCB, BD	
104	4-917-567-01	GEAR (M)		M101	X-4917-523-3	MOTOR ASSY (SPINDLE)	
105	4-917-564-01	GEAR (P), FLATNESS		M102	X-4917-504-1	MOTOR ASSY (SLED)	
106	7-685-134-19	SCREW +BTP 2.6X8 TYPE2 N-S		S101	1-572-085-11	SWITCH,LEAF(LIMIT IN)	

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: μ F, PF: 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.

- EA: Saudi Arabia model
- AUS: Australian model

Ref.No	Part No.	Description	Ref.No	Part No.	Description			
901	*1-634-471-11	PC BOARD, DISPLAY	C237	1-123-875-11	ELECT	10MF	20%	50V
902	*A-4617-484-A	MOUNTED PCB, POWER	C238	1-123-875-11	ELECT	10MF	20%	50V
903	*A-4617-483-A	MOUNTED PCB, MAIN	C239	1-126-176-11	ELECT	220MF	20%	10V
904	*1-634-469-11	PC BOARD, TRANS	C240	1-123-875-11	ELECT	10MF	20%	50V
905	1-535-833-11	JUMPER, FILM (WITH TERMINAL)	C241	1-123-875-11	ELECT	10MF	20%	50V
906	Δ 1-575-104-11	(E)...CORD, POWER	C301	1-124-443-00	ELECT	100MF	20%	10V
906	Δ 1-575-453-11	(EA)...CORD, POWER	C302	1-124-791-11	ELECT	1MF	20%	50V
906	Δ 1-575-677-11	(AUS)...CORD, POWER	C304	1-163-035-00	CERAMIC CHIP	0.047MF		50V
907	1-535-845-11	JUMPER, FILM (WITH TERMINAL)	C305	1-163-011-11	CERAMIC CHIP	0.0015MF	10%	50V
908	*1-634-461-11	PC BOARD, LOADING	C306	1-163-038-00	CERAMIC CHIP	0.1MF		25V
909	Δ 8-848-144-11	DEVICE, OPTICAL KSS-240A	C307	1-164-232-11	CERAMIC CHIP	0.01MF		50V
910	1-575-001-11	WIRE, FLAT TYPE (12 CORE)	C308	1-124-902-00	ELECT	0.47MF	20%	50V
911	*A-4617-371-A	MOUNTED PCB, BD	C309	1-163-038-00	CERAMIC CHIP	0.1MF		25V
912	*1-634-472-11	PC BOARD, HEADPHONE	C326	1-163-011-11	CERAMIC CHIP	0.0015MF	10%	50V
913	1-569-007-11	(E)...ADAPTER, CONVERSION 2P	C327	1-163-011-11	CERAMIC CHIP	0.0015MF	10%	50V
CAPACITOR								
C101	1-163-038-00	CERAMIC CHIP	0.1MF		25V			
C102	1-163-989-11	CERAMIC CHIP	0.033MF	10%	25V			
C103	1-126-094-11	ELECT	4.7MF	20%	16V			
C104	1-163-038-00	CERAMIC CHIP	0.1MF		25V			
C105	1-126-154-11	ELECT	47MF	20%	6.3V			
C106	1-126-154-11	ELECT	47MF	20%	6.3V			
C107	1-126-154-11	ELECT	47MF	20%	6.3V			
C108	1-163-038-00	CERAMIC CHIP	0.1MF		25V			
C109	1-163-038-00	CERAMIC CHIP	0.1MF		25V			
C110	1-163-989-11	CERAMIC CHIP	0.033MF	10%	25V			
C111	1-131-367-00	TANTALUM	22MF	20%	16V			
C112	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V			
C113	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V			
C114	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V			
C115	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V			
C117	1-163-038-00	CERAMIC CHIP	0.1MF		25V			
C118	1-163-038-00	CERAMIC CHIP	0.1MF		25V			
C119	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V			
C120	1-163-989-11	CERAMIC CHIP	0.033MF	10%	25V			
C151	1-163-019-00	CERAMIC CHIP	0.0068MF	10%	50V			
C152	1-163-038-00	CERAMIC CHIP	0.1MF		25V			
C153	1-163-006-11	CERAMIC CHIP	560PF	10%	50V			
C154	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V			
C155	1-163-023-00	CERAMIC CHIP	0.015MF	10%	50V			
C171	1-163-038-00	CERAMIC CHIP	0.1MF		25V			
C172	1-163-038-00	CERAMIC CHIP	0.1MF		25V			
C173	1-163-038-00	CERAMIC CHIP	0.1MF		25V			
C174	1-163-038-00	CERAMIC CHIP	0.1MF		25V			
C221	1-163-101-00	CERAMIC CHIP	22PF	5%	50V			
C222	1-163-101-00	CERAMIC CHIP	22PF	5%	50V			
C223	1-124-443-00	ELECT	100MF	20%	10V			
C225	1-163-038-00	CERAMIC CHIP	0.1MF		25V			
C231	1-163-035-00	CERAMIC CHIP	0.047MF		50V			
C232	1-163-035-00	CERAMIC CHIP	0.047MF		50V			
C233	1-163-013-11	CERAMIC CHIP	2200PF	5%	50V			
C234	1-163-013-11	CERAMIC CHIP	2200PF	5%	50V			
C235	1-124-443-00	ELECT	100MF	20%	10V			
C236	1-124-443-00	ELECT	100MF	20%	10V			
C332	1-163-038-00	CERAMIC CHIP	0.1MF		25V			
C401	1-163-038-00	CERAMIC CHIP	0.1MF		25V			
C403	1-163-038-00	CERAMIC CHIP	0.1MF		25V			
C404	1-136-165-00	FILM	0.1MF	5%	50V			
C405	1-163-038-00	CERAMIC CHIP	0.1MF		25V			
C501	1-163-035-00	CERAMIC CHIP	0.047MF		50V			
C502	1-136-165-00	FILM	0.1MF	5%	50V			
C551	1-163-035-00	CERAMIC CHIP	0.047MF		50V			
C901	1-126-939-11	ELECT	10000MF	20%	16V			
C902	1-124-572-11	ELECT	100MF	20%	63V			
C903	1-123-875-11	ELECT	10MF	20%	50V			
C904	1-136-165-00	FILM	0.1MF	5%	50V			
C905	1-123-875-11	ELECT	10MF	20%	50V			
C906A	1-124-443-00	ELECT	100MF	20%	10V			
C906B	1-163-038-00	CERAMIC CHIP	0.1MF		25V			
C907	1-126-923-11	ELECT	220MF	20%	10V			
C908	1-124-791-11	ELECT	1MF	20%	50V			
C909	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V			
C910	1-124-472-11	ELECT	470MF	20%	10V			
C911	1-124-927-11	ELECT	4.7MF	20%	50V			
C912	1-123-875-11	ELECT	10MF	20%	50V			
C913	1-126-923-11	ELECT	220MF	20%	10V			
C914	1-163-038-00	CERAMIC CHIP	0.1MF		25V			
C915	1-163-038-00	CERAMIC CHIP	0.1MF		25V			
CN101	1-568-796-11	SOCKET, CONNECTOR 22P						
CN102	1-568-795-11	SOCKET, CONNECTOR 12P						
CN201	1-568-838-11	SOCKET, CONNECTOR 21P						
CN202	1-568-802-11	SOCKET, CONNECTOR 19P						
CN253	*1-564-339-00	PIN, CONNECTOR 5P						
CN291	*1-564-498-11	PIN, CONNECTOR 5P						
CN302	*1-564-339-00	PIN, CONNECTOR 5P						
CN303	*1-564-341-11	PIN, CONNECTOR 7P						
CN305	*1-564-339-00	PIN, CONNECTOR 5P						
CN306	1-564-980-11	PIN, CONNECTOR 4P (SYSTEM CONTROL IN)						
CN401	1-569-566-11	SOCKET, CONNECTOR 20P						
CN801	1-568-668-11	CONNECTOR, BOARD TO BOARD 6P						
CN803	*1-564-321-00	PIN, CONNECTOR 2P						
CN901	1-568-662-11	CONNECTOR, BOARD TO BOARD 6P						
CN902	*1-564-341-11	PIN, CONNECTOR 7P						

Ref.No	Part No.	Description			
CN903	*1-564-341-71	PIN, CONNECTOR 7P			
D201	8-719-010-34	DIODE UZ-4.7BSC			
D401	8-719-400-18	DIODE MA152WK			
D402	8-719-400-18	DIODE MA152WK			
D403	8-719-400-18	DIODE MA152WK			
D404	8-719-400-18	DIODE MA152WK			
D412	8-719-106-36	DIODE RD8.2M-B3			
D901	8-719-210-33	DIODE EC10DS2			
D902	8-719-210-33	DIODE EC10DS2			
D903	8-719-210-33	DIODE EC10DS2			
D904	8-719-210-33	DIODE EC10DS2			
D905	8-719-210-33	DIODE EC10DS2			
D906	8-719-104-34	DIODE 1S2836			
D907	8-719-104-34	DIODE 1S2836			
D909	8-719-106-17	DIODE RD6.8M-B2			
FLD401	1-519-600-11	INDICATOR TUBE, FLUORESCENT			
IC101	8-752-037-33	IC CXA1372Q			
IC102	8-759-821-94	IC LA6532M			
IC221	8-752-334-06	IC CXD2551P			
IC222	8-759-990-13	IC TDA1543A			
IC223	8-759-945-58	IC RC4558P			
IC224	8-759-633-66	IC M5285FP			
IC253	8-759-633-65	IC M54641L			
IC301	8-752-333-31	IC CXD2500Q			
IC401	8-759-150-21	IC UPD75212ACW-205			
IC402	8-749-900-36	IC BX-1393			
IC901	8-759-821-93	IC LA5601			
IC902	8-759-633-42	IC M5293L			
IC903	8-759-148-80	IC UPC2407HF			
J101	1-216-295-00	METAL GLAZE	0	5%	1/10W
J102	1-216-295-00	METAL GLAZE	0	5%	1/10W
J301	1-565-352-11	JACK, PIN 2P (LINE OUT)			
J501	1-507-967-31	JACK (HEADPHONES)			
JW402	1-216-295-00	METAL GLAZE	0	5%	1/10W
JW402	1-216-295-00	METAL GLAZE	0	5%	1/10W
JW403	1-216-295-00	METAL GLAZE	0	5%	1/10W
JW404	1-216-295-00	METAL GLAZE	0	5%	1/10W
JW901	1-216-295-00	METAL GLAZE	0	5%	1/10W
JW902	1-216-295-00	METAL GLAZE	0	5%	1/10W
L902	1-410-658-31	INDUCTOR CHIP 220UH			
L903	1-410-658-31	INDUCTOR CHIP 220UH			
M101	X-4917-523-3	MOTOR ASSY (SPINDLE)			
M102	X-4917-504-1	MOTOR ASSY (SLED)			
M103	A-4608-362-A	MOTOR (L) ASSY (LOADING)			
Q101	8-729-901-01	TRANSISTOR DTC144EK			
Q231	8-729-141-75	TRANSISTOR 2SD596-DV345			
Q232	8-729-141-75	TRANSISTOR 2SD596-DV345			
Q233	8-729-113-66	TRANSISTOR FN1L4M-M31			
Q252	8-729-112-97	TRANSISTOR FA1L4M-L31			
Q253	8-729-112-97	TRANSISTOR FA1L4M-L31			
Q901	8-729-113-66	TRANSISTOR FN1L4M-M31			
Q902	8-729-113-13	TRANSISTOR FA1A4M-L33			
Q903	8-729-113-66	TRANSISTOR FN1L4M-M31			
Q904	8-729-113-13	TRANSISTOR FA1A4M-L33			
Q906	8-729-216-22	TRANSISTOR 2SA1162			
RESISTOR					
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

Ref.No	Part No.	Description			
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
R201	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R203	1-216-045-00	METAL GLAZE	680	5%	1/10W
R204	1-216-045-00	METAL GLAZE	680	5%	1/10W
R235	1-216-019-00	METAL GLAZE	56	5%	1/10W
R236	1-216-019-00	METAL GLAZE	56	5%	1/10W
R237	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W
R238	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W
R239	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R241	1-216-041-00	METAL GLAZE	470	5%	1/10W
R242	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R243	1-216-037-00	METAL GLAZE	330	5%	1/10W
R244	1-216-037-00	METAL GLAZE	330	5%	1/10W
R248	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R249	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R250	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R302	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R303	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R304	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R305	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R308	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R309	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R310	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R311	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R312	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R313	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R314	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R315	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R337	1-216-037-00	METAL GLAZE	330	5%	1/10W
R338	1-216-037-00	METAL GLAZE	330	5%	1/10W
R401	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R402	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R403	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R404	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R405	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R406	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R407	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R501	1-216-019-00	METAL GLAZE	56	5%	1/10W
R551	1-216-019-00	METAL GLAZE	56	5%	1/10W
R901	1-216-025-00	METAL GLAZE	100	5%	1/10W
R903	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R904	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R908	1-216-001-00	METAL GLAZE	10	5%	1/10W

Ref.No	Part No.	Description
R909	1-216-049-00	METAL GLAZE 1K 5% 1/10W
R911	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W
R912	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W
RV101	1-238-016-11	RES, ADJ, CARBON 10K
RV102	1-238-016-11	RES, ADJ, CARBON 10K
RV501	1-238-302-11	RES, VAR, CARBON 1K/1K (PHONES LEVEL)
S101	1-572-085-11	SWITCH, LEAF (LIMIT IN)
S291	1-571-924-11	SWITCH, LEAF (LOAD OUT)
S292	1-571-924-11	SWITCH, LEAF (LOAD IN)
S402	1-554-596-21	SWITCH, KEY BOARD (SHUFFLE)
S403	1-554-596-21	SWITCH, KEY BOARD (TIME)
S405	1-554-596-21	SWITCH, KEY BOARD (▲ OPEN/CLOSE)
S406	1-554-596-21	SWITCH, KEY BOARD (PROGRAM)
S407	1-554-596-21	SWITCH, KEY BOARD (CONTINUE)
S409	1-554-596-21	SWITCH, KEY BOARD (■)
S410	1-554-596-21	SWITCH, KEY BOARD (◀▶)
S411	1-554-596-21	SWITCH, KEY BOARD (◀◀)
S413	1-554-596-21	SWITCH, KEY BOARD (▷▷)
S414	1-554-596-21	SWITCH, KEY BOARD (▶▶)
S415	1-554-596-21	SWITCH, KEY BOARD (▶▶)
S501	1-552-928-00	SWITCH (POWER)
S801	△1-571-722-11	SWITCH, VOLTAGE SELECTION (VOLTAGE SELECTOR)
T901	△1-450-031-11	TRANSFORMER, POWER
X251	1-567-908-11	VIBRATOR, CRYSTAL (16.9344MHZ)
X401	1-577-358-21	VIBRATOR, CERAMIC (4MHZ)

Ref.No	Part No.	Description
ACCESSORIES & PACKING MATERIALS *****		
1-465-299-11		REMOTE COMMANDER
1-558-233-11		CORD (WITH CONNECTOR)(SIRCS)4P
1-559-533-11		CORD, CONNECTION
3-751-849-11		MANUAL, INSTRUCTION
4-920-941-01		SHEET (B), PROTECTION
*4-929-703-01		CUSHION (LEFT)
*4-929-704-01		CUSHION (RIGHT)
*4-929-705-41		INDIVIDUAL CARTON

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

CDP-S39

SONY SERVICE MANUAL

E Model
Australian Model

CORRECTION-1

Correct your service manual as shown below.

 : indicates corrected portion.

Page	INCORRECT	CORRECT
4	E-F Balance Check Procedure : 1. Connect test point TP (ADJ) and TP (TES) to ground with lead wire.	E-F Balance Check Procedure : 1. Connect test point <u>TP (ADJ)</u> to ground and <u>TP (TES)</u> to <u>TP (VC)</u> with lead wire.
5	Focus/Tracking Gain Adjustment 4. Adjustment RV101 on BD board so that the waveform is as shown in the figure below. (focus gain adjustment) 6. Adjusted RV102 on BD board so that the waveform is as shown the figure below. (tracking gain adjustment)	Focus/Tracking Gain Adjustment 4. <u>Adjust RV102</u> on BD board so that the waveform is as shown in the figure below. (focus gain adjustment) 6. <u>Adjust RV101</u> on BD board so that the waveform is as shown in the figure below. (tracking gain adjustment)
5		Adjustment Location : 【BD board】 