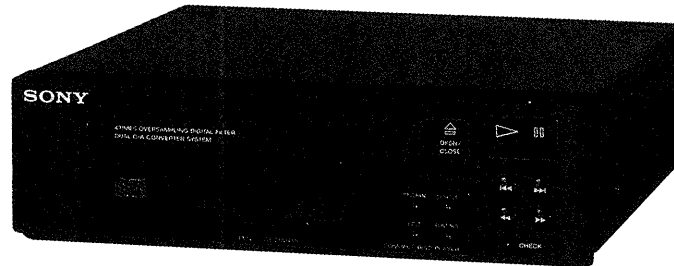


CDP-H500

SERVICE MANUAL

US Model





This set is the CD player section
in MHC-5500.

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

SPECIFICATIONS

Dimensions	Approx. 225 × 65 × 220 mm (w/h/d)
Weight	1.8 kg
System	Compact disc digital audio system
Laser	Semiconductor laser ($\lambda = 780 \text{ nm}$) 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.

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.

COMPACT DISC PLAYER
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 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

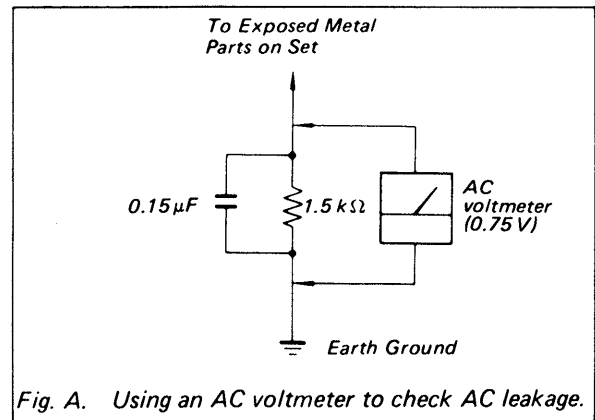
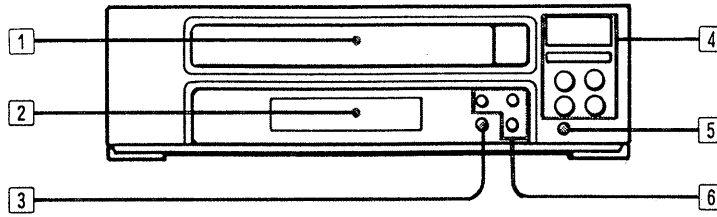


Fig. A. Using an AC voltmeter to check AC leakage.

SECTION 1 GENERAL

1-1. LOCATION OF CONTROLS



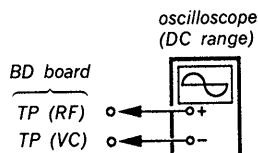
- 1 Disc tray
- 2 Display window
- 3 EDIT button
- 4 CD operation buttons
 - △ OPEN/CLOSE button
 - ▷|| (play/pause) button
 - (stop) button
 - ◀◀/▶▶ (manual search) buttons
 - ◀◀/▶▶ (Automatic Music Sensor) buttons
- 5 REPEAT button
- 6 Play mode selectors
 - CONTINUE play button
 - SHUFFLE play button
 - PROGRAM play 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.

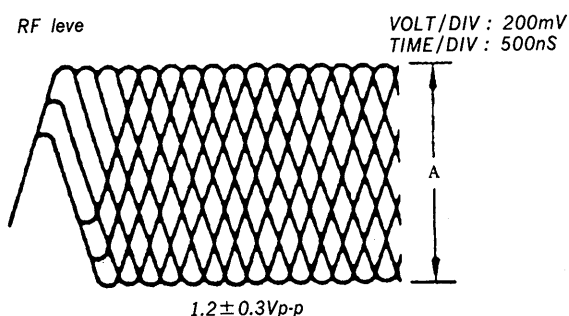
RF Level Check

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.

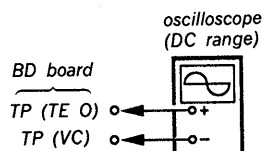
RF signal Reference Waveform (eye pattern)



REFERENCE

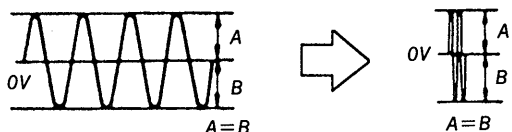
E-F Balance Check

Procedure :



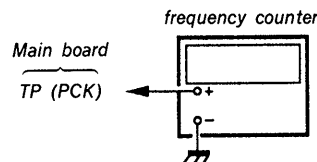
1. Connect test point TP (ADJ) and TP (TES) to ground with lead wire.
2. Connect oscilloscope to test point TP (TE O) and TP (VC) on BD board.
3. Turn POWER switch on.
4. Put disc (YEDS-18) in and play back.
5. Confirm that the oscilloscope waveform is symmetrical on the top and bottom in relation to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

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



RF PLL Free-run Frequency Check

Procedure :



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

Focus/Tracking Gain Adjustment

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

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

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

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

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

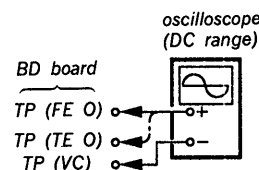
Gain	Focus	Tracking
Symptoms		
• The time until music starts becomes longer for STOP →▷ PLAY or automatic selection. (◀◀, ▶▶ buttons pressed.) (Normally takes about 1 seconds.)	low	low or high
• Music does not start and disc continues to rotate for STOP →▷ PLAY or automatic selection. (◀◀, ▶▶ buttons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

The following is a simple adjustment method.

—Primary Adjustment—

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

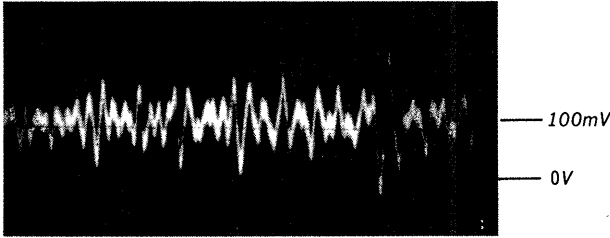
If the positions after the primary adjustment are only a little different, return the controls to the original position.



Procedure :

1. Keep the set horizontal.
(If the set is not horizontal, this adjustment cannot be performed due to the gravity against the 2-axis device.)
2. Insert disc (YEDS-18) and press ▷ PLAY button.
3. Connect oscilloscope to TP (FEO) and TP (VC) on BD board.
4. Adjustment RV101 on BD board so that the waveform is as shown in the figure below. (focus gain adjustment)

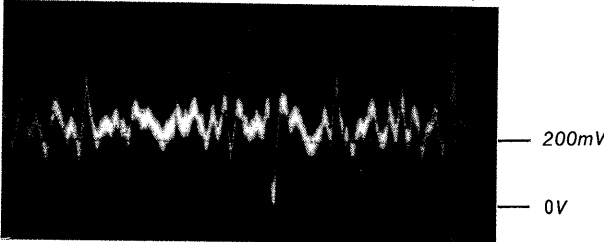
VOLT/DIV : 100mV
TIME/DIV : 2mS



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

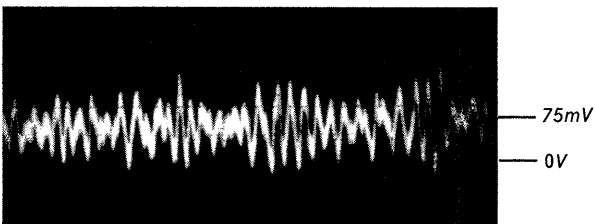
low focus gain

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



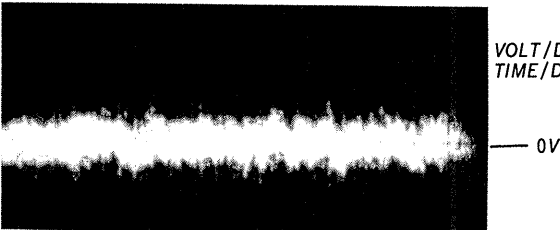
high focus gain

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



5. Connect oscilloscope to TP (TEO) and TP (VC) on BD board.
6. Adjusted RV102 on BD board so that the waveform is as shown the figure below. (tracking gain adjustment)

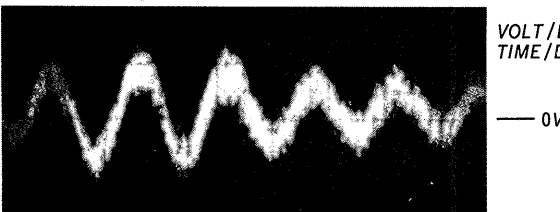
VOLT/DIV : 1V
TIME/DIV : 2mS



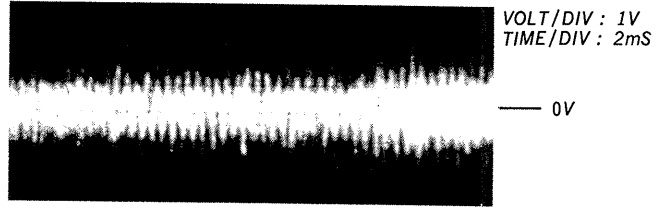
• Inccornt Examples (fundamentia wave appears)

low tracking gain

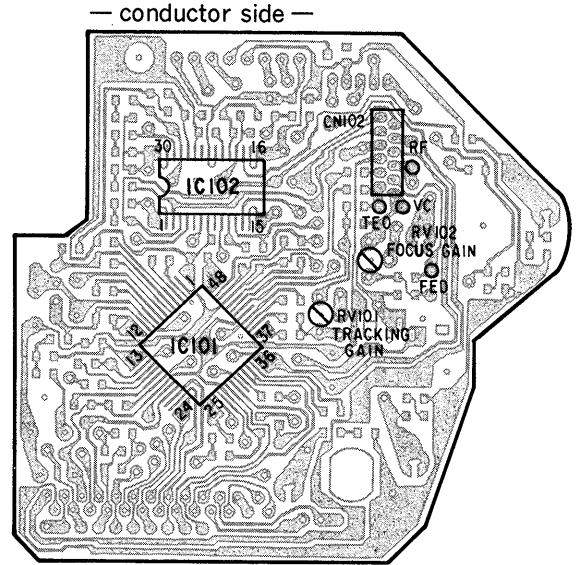
VOLT/DIV : 1V
TIME/DIV : 2mS



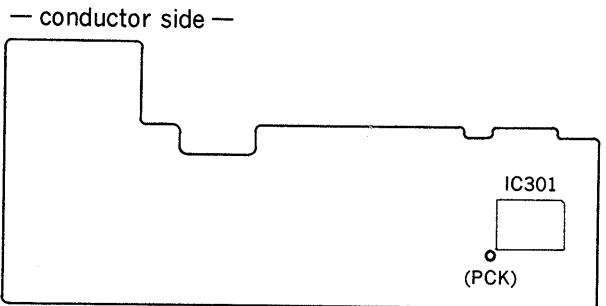
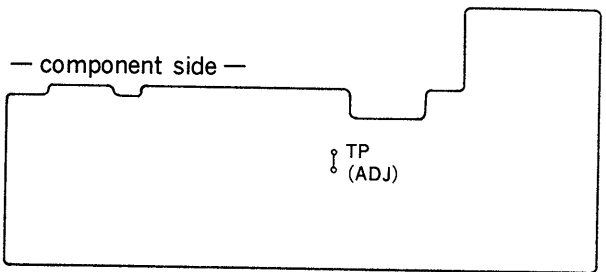
*high tracking gain
(high fundamental wave)
than for low gain*



**Adjustment Locations :
[BD board]**



[Main board]

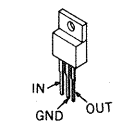


SECTION 3
DIAGRAMS

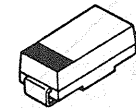
3-2. PRINTED WIRING BOARDS

3-1. SEMICONDUCTOR LEAD LAYOUTS

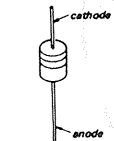
M5F7807



EC10DS2



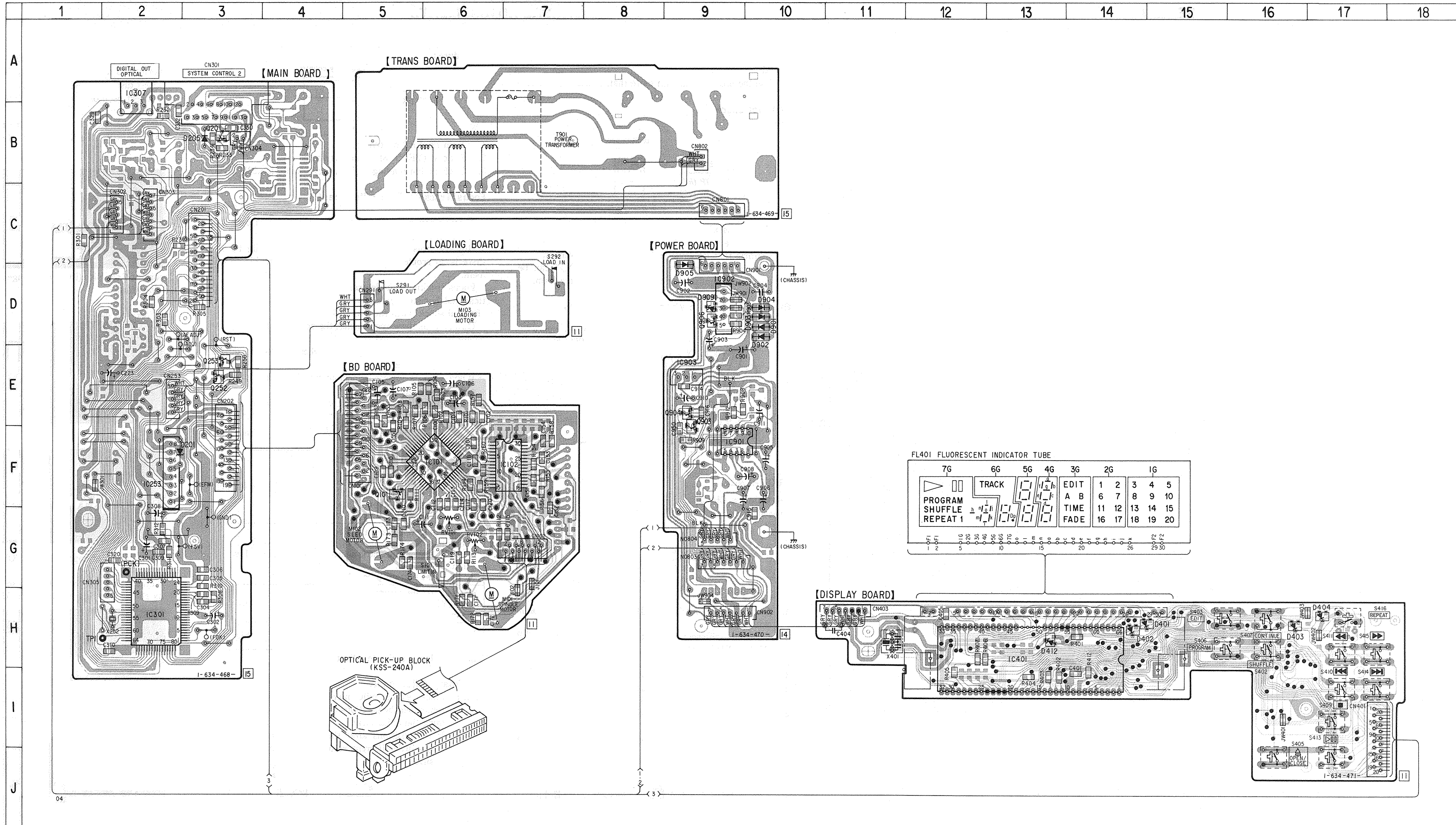
UZ-4.7BSC
11EQS04



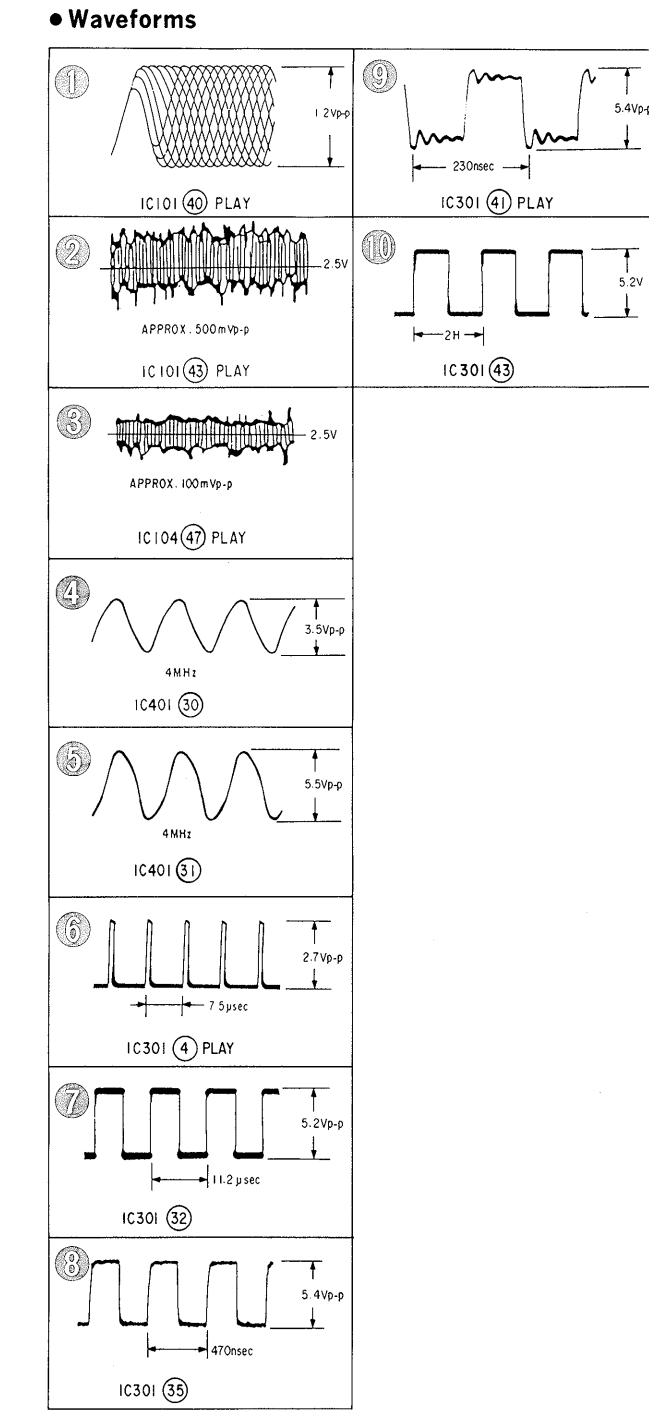
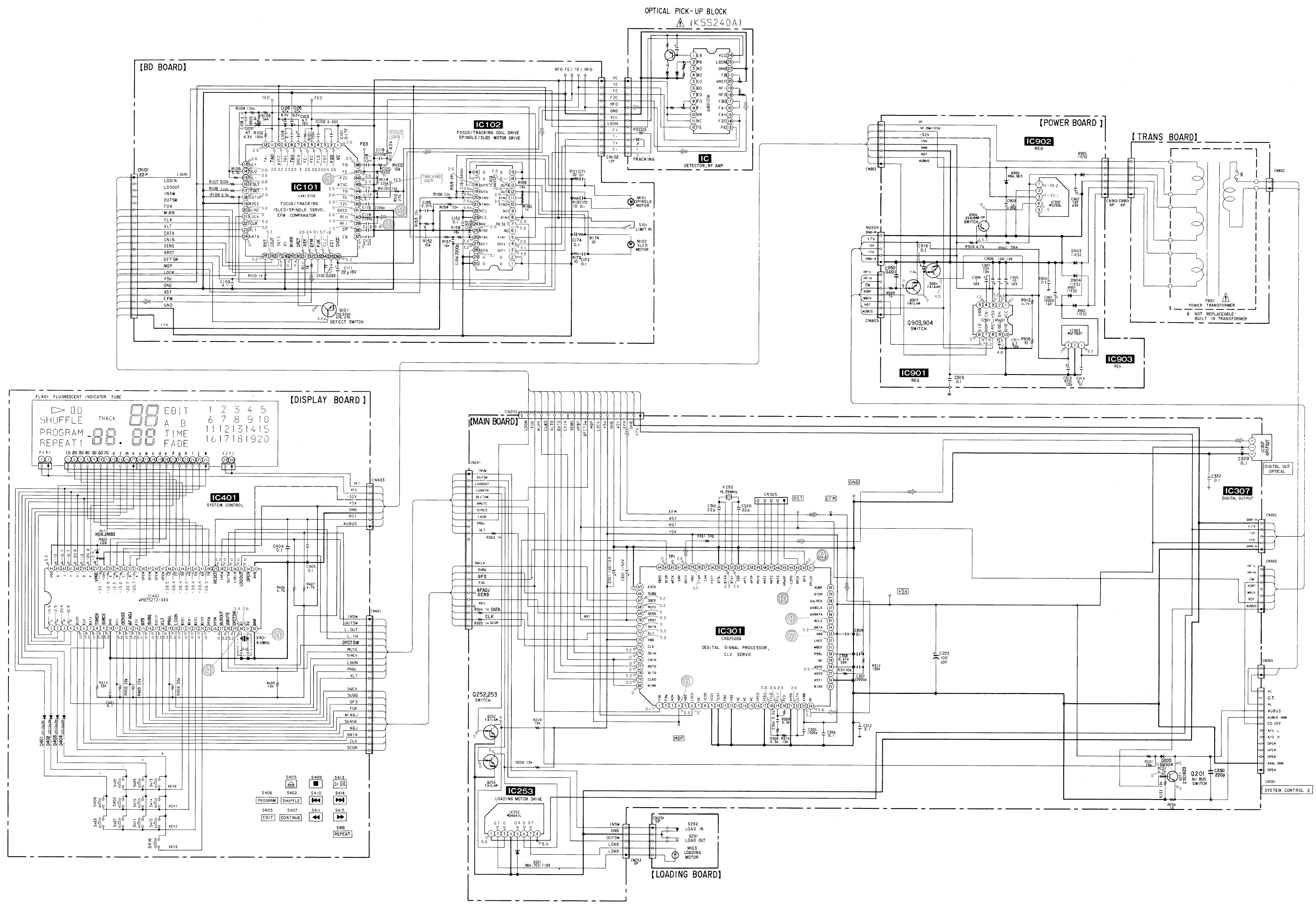
• Semiconductor Location

Ref. No.	Location
D201	F-3
D205	B-3
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
D909	D-9
IC101	F-6
IC102	F-7
IC253	F-2
IC301	H-2
IC307	A-2
IC401	H-13
IC901	F-9
IC902	D-9
IC903	E-9
Q101	F-5
Q201	B-3
Q252	E-3
Q253	E-3
Q903	E-9
Q904	E-9
Q906	D-9

- Note:
- : parts extracted from the component side.
 - : Through hole.
 - ▨ : Pattern on the side which is seen.
 - (with dot) : Pattern of the rear side.



A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P



Note:

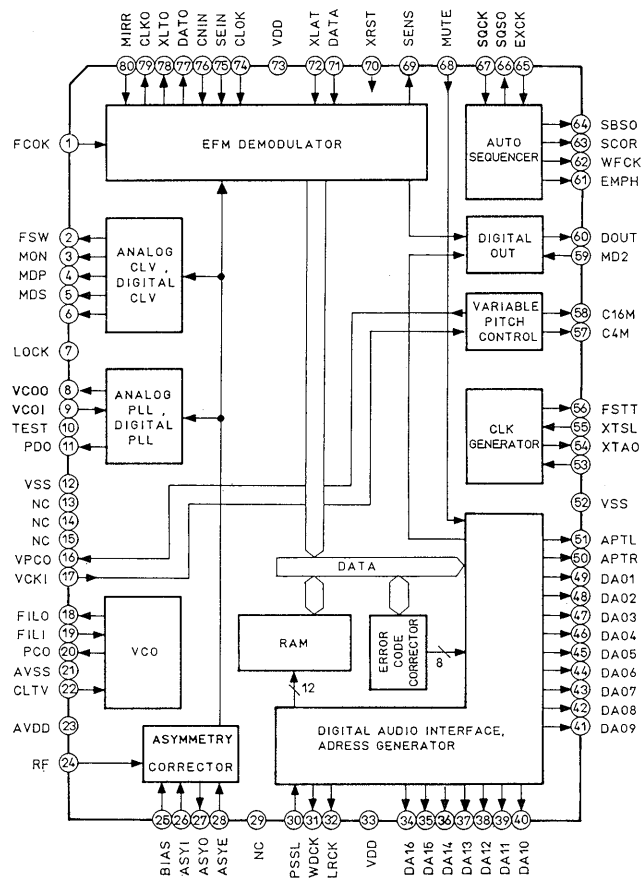
- All capacitors are in μF unless otherwise noted. pF : μF 500V or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{2}\text{W}$ or less unless otherwise specified.
- Δ : internal component.

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

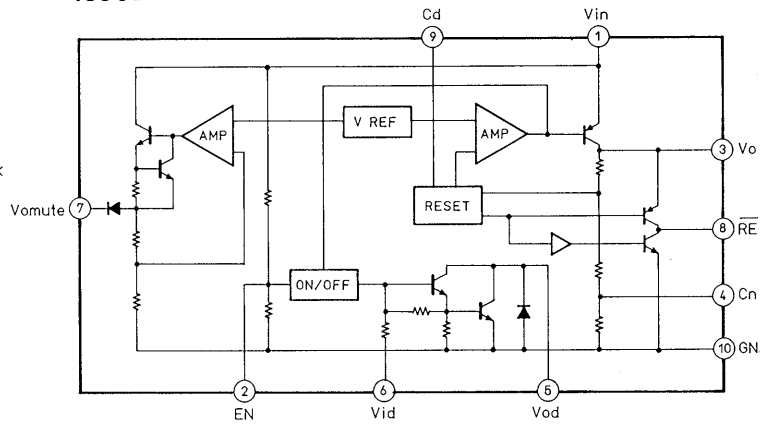
\ominus : B+ Line
 \ominus : B- Line
 \square : adjustment for repair.
 Voltage and waveforms are dc with respect to ground under no-signal conditions.
 no mark : STOP
 Voltages are taken with a VOM (Input Impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
 Waveforms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

● IC Block Diagrams

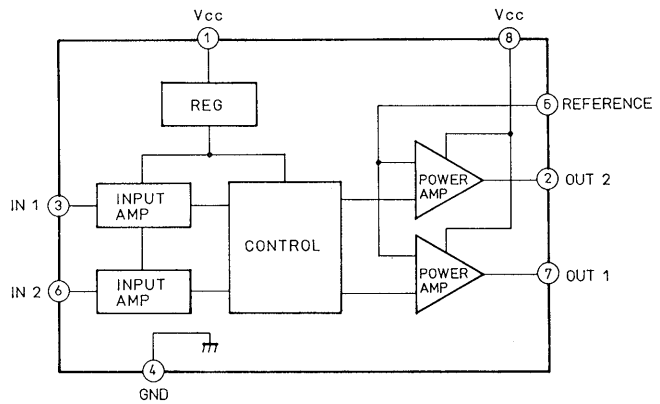
IC301 CXD2500Q



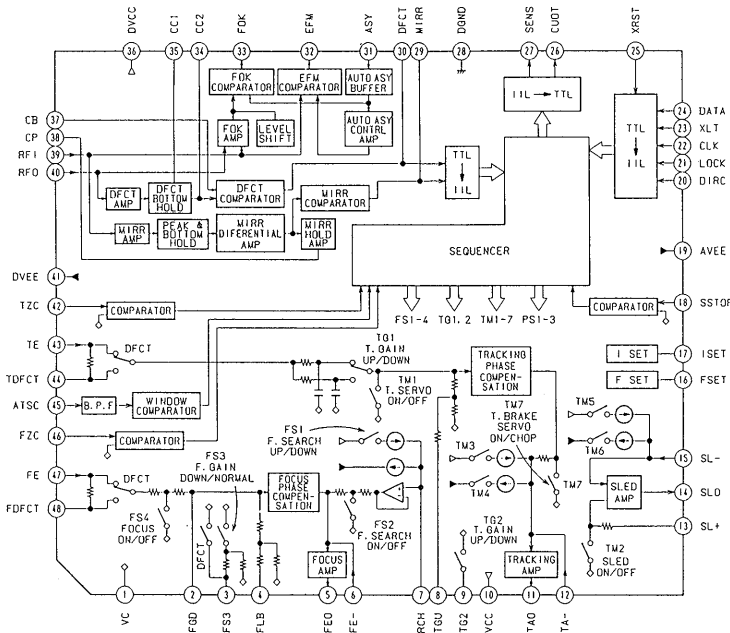
IC901 LA5601



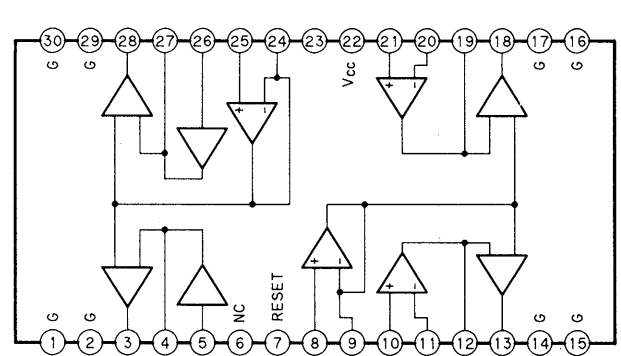
IC253 M54641L



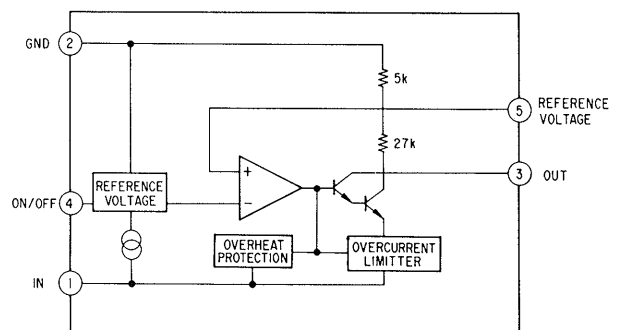
IC101 CXA1372Q



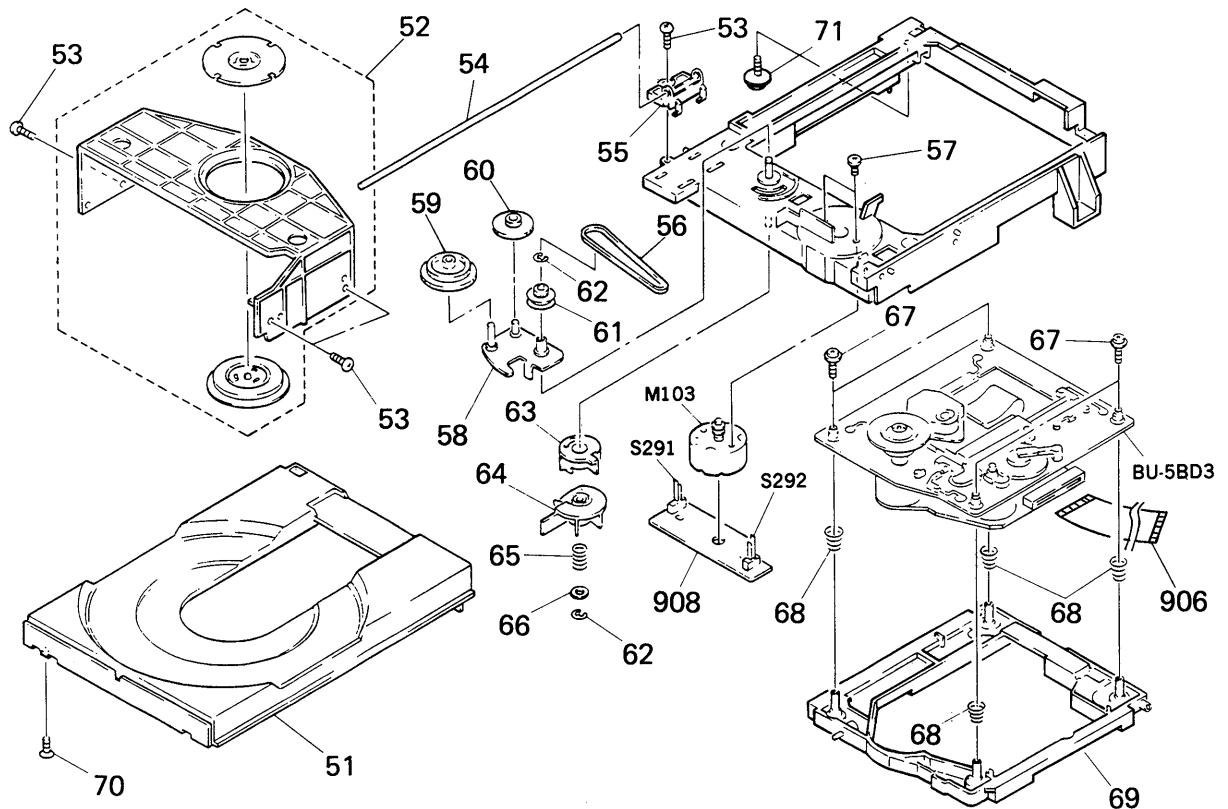
IC102 LA6532M



IC902 M5293L



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



<u>Ref.No</u>	<u>Part No.</u>	<u>Description</u>	<u>Remarks</u>	<u>Ref.No</u>	<u>Part No.</u>	<u>Description</u>	<u>Remarks</u>
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)		906	1-535-845-11	JUMPER, FILM (WITH TERMINAL)	
60	4-927-628-01	GEAR (C)		908	1-634-461-11	PC BOARD LOADING	
61	4-929-724-01	PULLEY (B)		M103	A-4608-362-A	MOTOR (L) ASSY	
62	7-624-105-04	STOP RING 2.3, TYPE -E		S291	1-571-924-11	SWITCH, LEAF (LOAD OUT)	
63	4-929-727-01	CAM (A)		S292	1-571-924-11	SWITCH, LEAF (LOAD 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 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.

Ref.No	Part No.	Description			
901	*A-4617-397-A	MOUNTED PCB, DISPLAY			
902	*A-4617-641-A	MOUNTED PCB, POWER			
903	*A-4617-640-A	MOUNTED PCB, MAIN			
904	*1-634-469-11	PC BOARD, TRANS			
905	1-535-833-11	JUMPER, FILM (WITH TERMINAL)			
906	1-535-845-11	JUMPER, FILM (WITH TERMINAL)			
907	*1-436-461-11	PC, BOARD LOADING			
908	Δ 8-848-144-11	DEVICE, OPTICAL KSS-240A			
909	1-575-001-11	WIRE, FLAT TYPE (12 CORE)			
910	*A-4617-371-A	MOUNTED PCB, BD			
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
C223	1-124-443-00	ELECT	100MF	20%	10V
C301	1-124-443-00	ELECT	100MF	20%	10V
C302	1-124-791-11	ELECT	1MF	20%	50V
C304	1-163-035-00	CERAMIC CHIP	0.047MF		50V
C305	1-163-011-11	CERAMIC CHIP	0.0015MF	10%	50V
C306	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C307	1-164-232-11	CERAMIC CHIP	0.01MF		50V
C308	1-124-902-00	ELECT	0.47MF	20%	50V
C309	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C310	1-163-101-00	CERAMIC CHIP	22PF	5%	50V
C312	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C320	1-163-101-00	CERAMIC CHIP	22PF	5%	50V
C329	1-163-038-00	CERAMIC CHIP	0.1MF	5%	50V
C332	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C350	1-163-013-11	CERAMIC CHIP	2200P	5%	25V

Ref.No	Part No.	Description			
C401	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C404	1-163-165-00	FILM	0.1MF	5%	50V
C405	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C901	1-126-939-11	ELECT	10000MF	20%	16V
C902	1-126-063-11	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
C906	1-124-443-00	ELECT	100MF	20%	10V
C907	1-126-923-11	ELECT	220MF	20%	10V
C908	1-126-301-11	ELECT	1MF	20%	50V
C910	1-126-925-11	ELECT	470MF	20%	10V
C911	1-124-927-11	ELECT	4.7MF	20%	50V
C914	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C915	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C916	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C950	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
CN101	1-568-796-11	SOCKET, CONNECTOR 22P			
CN102	1-568-795-11	SOCKET, CONNECTOR 12P			
CN291	*1-564-498-11	PIN, CONNECTOR 5P			
CN201	1-568-838-11	SOCKET, CONNECTOR 21P			
CN202	1-568-802-11	SOCKET, CONNECTOR 19P			
CN253	*1-564-339-00	PIN, CONNECTOR 5P			
CN301	*1-565-291-11	SOCKET, CONNECTOR 13P			
CN302	*1-564-339-00	PIN, CONNECTOR 5P			
CN303	*1-564-341-11	PIN, CONNECTOR 7P			
CN305	*1-564-339-00	PIN, CONNECTOR 5P			
CN401	1-569-566-11	SOCKET, CONNECTOR 20P			
CN801	1-568-668-11	CONNECTOR, BOARD TO BOARD 6P			
CN802	*1-564-336-00	PIN, CONNECTOR 2P			
CN901	1-568-662-11	CONNECTOR, BOARD TO BOARD 6P			
CN902	*1-564-341-11	PIN, CONNECTOR 7P			
D201	8-719-010-34	DIODE UZ-4.7BSC			
D205	8-719-210-21	DIODE 11EQS04			
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			
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			
IC253	8-759-633-65	IC M54641L			
IC301	8-752-333-31	IC CXD2500Q			
IC307	8-749-921-12	IC GP1F32T			
IC401	8-759-150-20	IC UPD75212ACW-204			
IC901	8-759-821-93	IC LA5601			

Ref.No	Part No.	Description				
IC902	8-759-633-42	IC M5293L				
IC903	8-759-604-86	IC M5F7807L				
J101	1-216-295-00	METAL GLAZE	0	5%	1/10W	
J102	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JW401	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	
JW901	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JW902	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JW904	1-216-295-00	METAL GLAZE	0	5%	1/10W	
M101	X-4917-523-3	MOTOR ASSY (SPINDLE)				
M102	X-4917-504-1	MOTOR ASSY (SLED)				
M103	A-4608-362-A	MOTOR (L) ASSY				
Q101	8-729-901-01	TRANSISTOR DTC144EK				
Q201	8-729-100-66	TRANSISTOR 2SC1623				
Q252	8-729-112-97	TRANSISTOR FA1L4M-L31				
Q253	8-729-112-97	TRANSISTOR FA1L4M-L31				
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	
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	
R231	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R232	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R233	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R234	1-216-001-00	METAL GLAZE	10	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	
R301	1-216-037-00	METAL GLAZE	330	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	

Ref.No	Part No.	Description				
R312	1-216-097-00	METAL GLAZE	100K	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	
R412	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R903	1-216-091-00	METAL GLAZE	56K	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	
R909	1-216-049-00	METAL GLAZE	1K	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				
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 (EDIT)				
S405	1-554-596-21	SWITCH, KEY BOARD (OPEN/CLOSE \triangle)				
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 (▶▶)				
S416	1-572-184-11	SWITCH, KEYBOARD (REPEAT)				
T901	\triangle 1-450-274-11	TRANSFORMER, POWER				
X252	1-567-926-11	VIBRATOR, CRYSTAL (16.39MHz)				
X401	1-577-358-21	VIBRATOR, CERAMIC (4MHz)				

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

CDP-H500

SONY SERVICE MANUAL

US Model

CORRECTION-1

Correct your service manual as shown below.

 : indicates corrected portion.

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