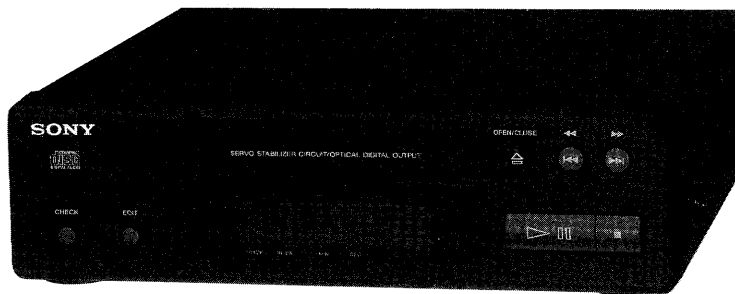


CDP-H3600

SERVICE MANUAL

US Model
Canadian Model
E Model
Australian Model

This set is the
CD player section in
MHC-2600/3600 and
FH-E737CD/E838CD



Model Name Using Similar Mechanism	CDP-H300
CD Mechanism Type	CDM13B-5BD4
Base Unit Name	BU-5BD4

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SPECIFICATIONS

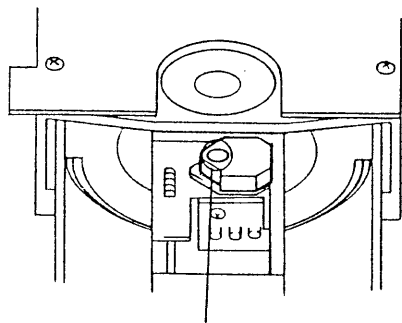
System	Compact disc digital audio system
Laser	Semiconductor laser ($\lambda = 780 \text{ nm}$) Emission duration: continuous
Laser output	Max. $44.6 \mu\text{W}$ * * This output is the value measured at a distance of about 200 mm from the objective lens surface on the Optical Pick-up Block.
Signal to noise ratio	More than 90 dB
Dynamic range	More than 90 dB
Harmonic distortion	Less than 0.05% (at 1 kHz)
Channel separation	More than 90 dB
Output level	2 V (at 50 kilohms)
Load impedance	More than 10 kilohms
Outputs	DIGITAL OUT OPTICAL (optical output connector): wave length 660 nm, output level -18 dBm



COMPACT DISC PLAYER
SONY®

LASER DIODE AND FOCUS SERCH OPERATION CHECK

1. Make POWER switch on with no disc inserted and disc table closed.
2. Confirm that the following operation is performed while observing the objective lens.



- ① Confirm that laser beam is spread.
- ② Up and down motion of the objective lens. (3 times)

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

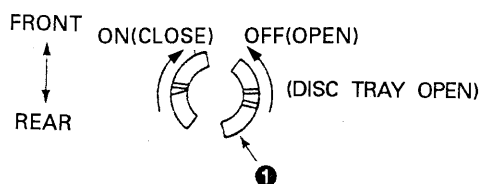
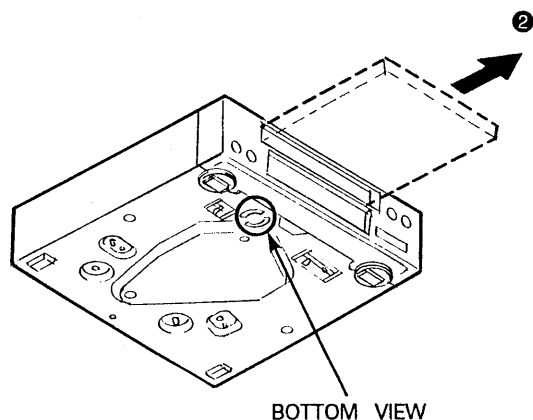
The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter 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 30 cm away from the objective lens.

HOW TO OPEN THE DISC TRAY WHEN POWER SWITCH TURNS OFF



- (1) Insert to ① for tapering driver, etc., and turn in the direction of arrow OFF. (Disc tray open)
- (2) Tray as come out little of front panel, pull out in the direction of arrow ② by hand.

SAFETY-RELATED COMPONENT WARNING!!

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

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE Δ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SAFETY CHECK-OUT

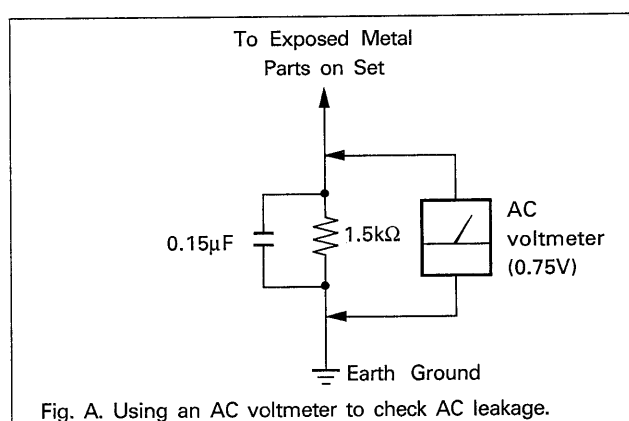
After correcting the original service problem, perform the following safety check before releasing the set to the customer: Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

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 0.5mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a

VOM or battery-operated AC voltmeter. The "limit" indication is 0.75V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig.A)



SECTION 1

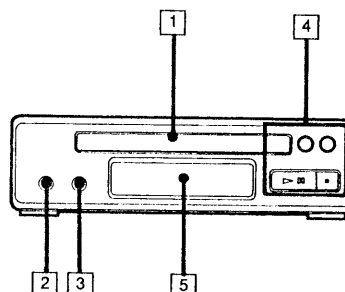
GENERAL

LOCATION OF CONTROLS

This section is extracted from
instruction manual.

CD Player Section D

- 1 Disc tray
- 2 CHECK button
- 3 EDIT/TIME FADE button 90 102
- 4 CD operation buttons
△ : OPEN/CLOSE
▷|| : Play/pause
◀◀◀◀◀◀◀◀ : Manual search (when kept depressed)/Automatic Music Sensor (when pressed)
- 5 Display window

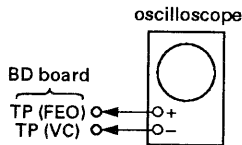


SECTION 2

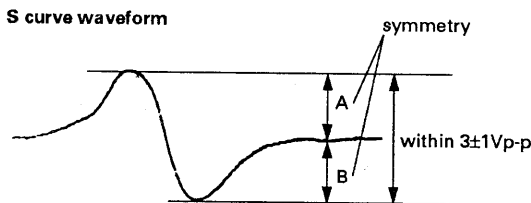
ELECTRICAL BLOCK CHECKING

Note :

1. CD Block basically constructed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use the oscilloscope with more than $10M\Omega$ impedance.
4. Clean an object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

S Curve Check**Procedure :**

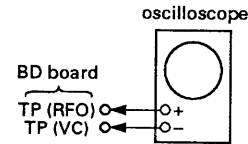
1. Connect oscilloscope to test point TP (FEO) on BD board.
2. Connect between test point TP (FES) and TP (VC) by lead wire.
3. Turned Power switch on and actuate the focus serch. (actuate the focus serch when disc table is moving in and out.)
4. Check the oscilloscope waveform (S curve) is symmetrical between A and B. And confirm peak to peak level within $3\pm 1V_{p-p}$.



5. After check, remove the lead wire connected in step 2.

Note :

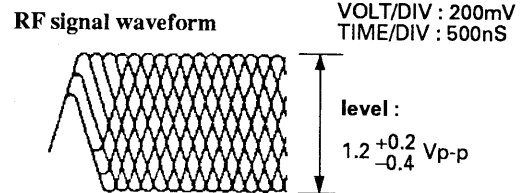
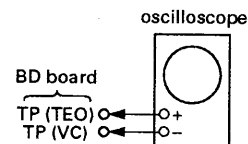
- Try to measure several times to make sure that the ratio of A : B or B : A is more than 10 : 7.
- Take sweep time as long as possible and light up the brightness to obtain best waveform.

RF Level Check**Procedure :**

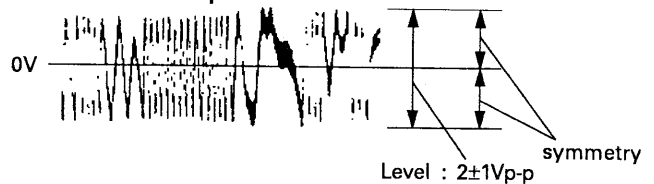
1. Connect oscilloscope to test point TP (RFO) on BD board.
2. Turn Power switch on.
3. Put disc (YEDS-18) in and playback.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

Note :

Clear RF signal waveform means that the shape "◇" can be clearly distinguished at the center of the waveform.

**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 (TEO) on BD board.
3. Turn Power switch on.
4. Put disc (YEDS-18) in and playback.
5. Confirm that the oscilloscope waveform is symmetrical on the top and bottom in relation to 0V, and check this level.

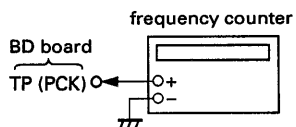
Traverse oscilloscope

6. Remove the lead wire connected in step 1.

RF PLL Free-run Frequency Check

Procedure :

1. Connect frequency counter to test point (PCK) with lead wire.



2. Turn Power switch on.
3. Confirm that reading on frequency counter is 4.3218MHz.

Focus/Tracking Gain

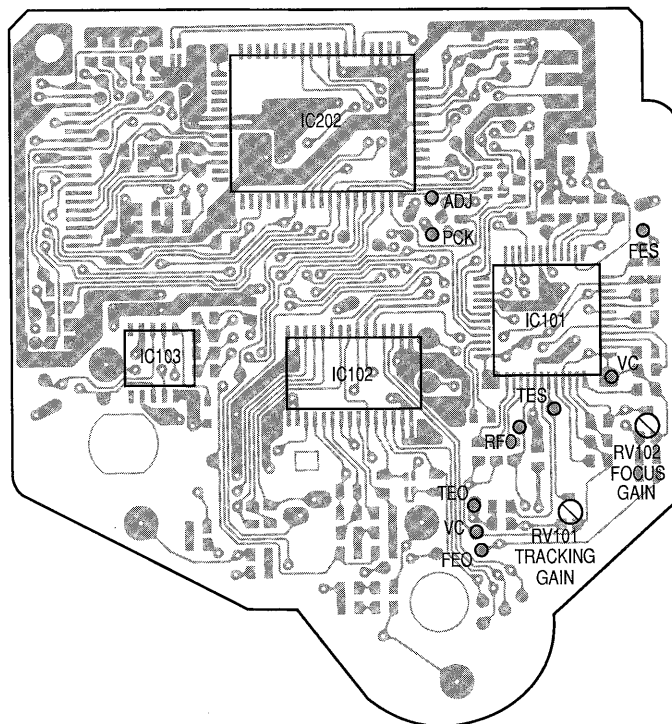
This gain has a margin, so even if it is slightly off.

There is no problem.

Therefore, do not perform, this adjustment.

Please note that it should be fixed to mechanical center position when you moved and do not know original position.

[BD BOARD] - Component Side -



[TEST MODES]

1. Test mode of display micon (IC401)

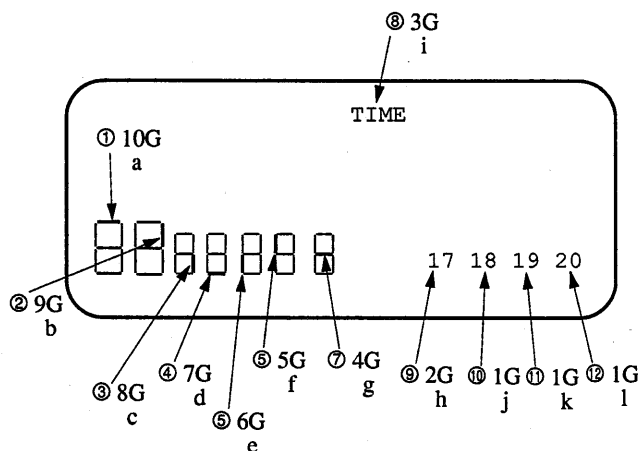
Connect Pin ③ of IC401 to ground and turn ON the POWER switch, thus you can test the following 3 tests.

(1) All FL tube ON

This mode is actuated immediately after turning ON the POWER switch.

(2) FL tube segment check

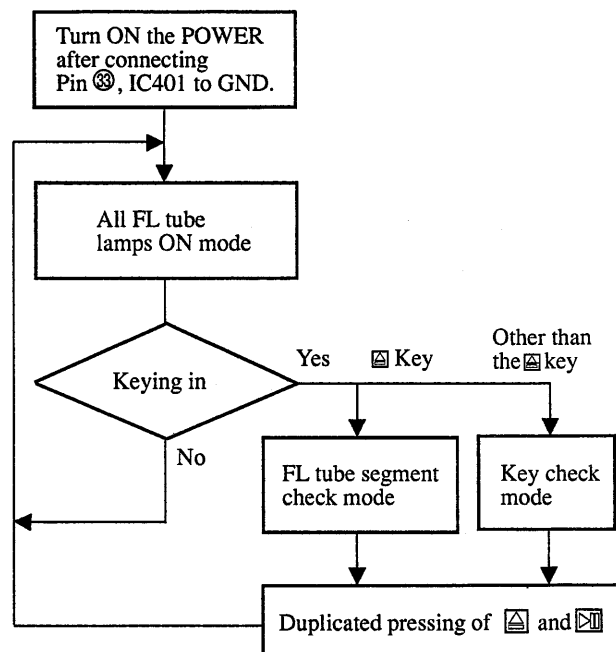
This mode is actuated by pressing the  key in the state of (1). Every time the  key is pressed, the segments are indicated sequentially from the segment a. When the last 1 segment is displayed, keying in is no longer accepted while continuing the lighting-up state of the last segment. Conditions are normal provided all lamps light up in the following order.



(3) KEY check

This mode is effected by pressing the  key in the state of (1), while indicating "1." Every time a new key is pressed subsequently, the indicated number is incremented. Conditions are normal provided "7" is indicated when all types of keys are pressed. Even if a key is pressed again, it is not counted.

* To leave the mode (2) or (3), press the  and  keys in duplication, thereby the mode returning to all ON mode.



2. Test Modes of CD Syscon (IC202)

(1) ADJUST mode

When this mode is effected, the machine is operated normally except for the following.

- When pin ⑨, IC202 (ADJ) is set to "L" after turning ON the POWER switch:
 1. GFS is no longer monitored during PLAY, PAUSE or SEARCH, while not stopping even with GFS remaining still at "L" (NG).
 2. No high-speed feeding is activated during SEARCH.
 3. Focus gain is reset to normal gain during PLAY (normally, the gain is lowered to reduce noise when FOCUS is locked).
- When Pin ③, IC202 (AFADJ) is set to "L" after turning ON the POWER switch:
 1. Regardless of Pin ⑨ (ADJ) of the CLV-S fixed function, the CLV mode during PLAY becomes CLV-S (rough servo) only while Pin e remains "L".

(2) AFADJUST mode

In this mode, it is possible to check the interface between the display micon (IC401) and CD syscon (IC202).

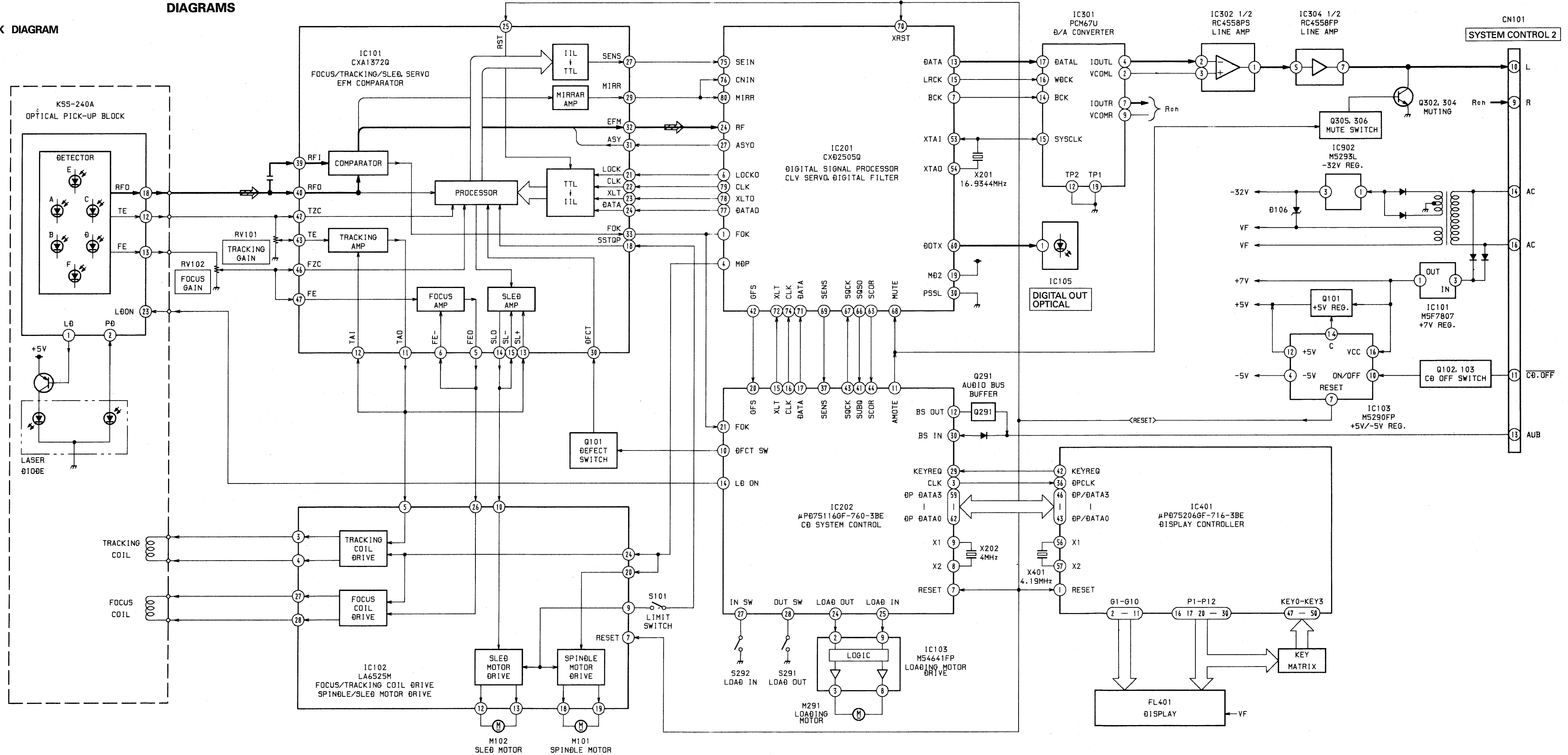
- Set Pin ③, IC202 (AFADJ) to "L" before turning ON the POWER switch.
 1. Every time the  key is pressed after turning On the POWER switch, indication on the FL tube is switched correspondingly. Conditions are normal provided the indication repeats the 4 patterns including all lamp ON.

3-1. BLOCK DIAGRAM

SECTION 3 DIAGRAMS

CDP-H3600 CDP-H3600

CDP-H3600



- **SEMICONDUCTOR LOCATION**

A 3D perspective drawing of a rectangular block. It has three tabs or protrusions: one on the top surface labeled 'C', one on the front face labeled 'B', and one on the right face labeled 'E'.



anode

cathode

A diagram of a 4-pin connector. It is a rectangular block with four pins extending from the bottom. The pins are labeled 1, 2, 3, and 4. Pin 4 is the topmost pin, pin 3 is the second from the top, pin 2 is the third from the top, and pin 1 is the bottommost pin.

A perspective view of a three-phase motor terminal box. It is a rectangular enclosure with three terminals on the front face, labeled B, C, and F from left to right. Each terminal is a small square block with a screw on top. Arrows point from the labels B, C, and F to their respective terminals.

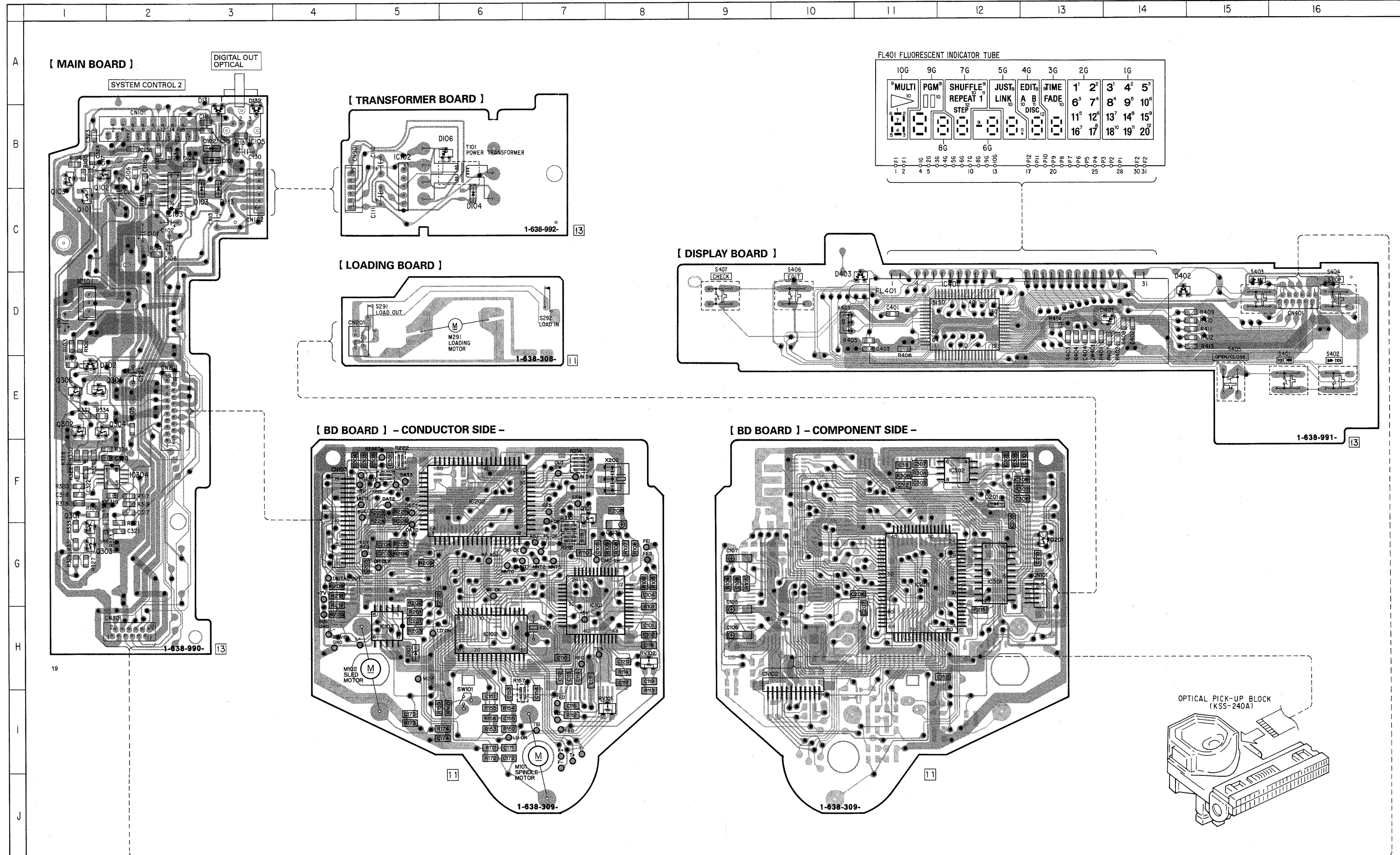
The diagram shows a three-terminal diode component. The top part is a perspective view of a rectangular component with three terminals labeled 1, 2, and 3. Terminal 3 is on the left, and terminals 1 and 2 are on the right. The bottom part is a circuit symbol consisting of two diodes connected in series. The first diode has its cathode (indicated by a horizontal line) connected to terminal 2 and its anode (indicated by a triangle) connected to terminal 3. The second diode has its cathode connected to terminal 3 and its anode connected to terminal 1.

A diagram of a battery cell. It is a rectangular block with a black band on the top surface. On the left side, there is a small circular terminal labeled "anode". On the right side, there is a larger rectangular terminal labeled "cathode".

The diagram shows a three-terminal diode component and its circuit symbol. The component is a rectangular block with three terminals: terminal 3 is on the left, terminal 1 is on the right, and terminal 2 is at the bottom center. The circuit symbol consists of a horizontal line with three terminals. The left terminal is connected to a diode symbol (a triangle pointing right) in series with a resistor (a rectangle). The middle terminal is connected to the junction between the diode and the resistor. The right terminal is connected to another diode symbol (a triangle pointing left) in series with a resistor (a rectangle).

Ref. No.	LOCATION	Ref. No.	LOCATION
IC101	D-1	Q305	E-1
IC101	G-7	Q306	E-1
IC102	B-5		
IC102	H-6	D101	B-3
IC103	B-2	D101	H-5
		D102	B-3
IC103	H-5	D103	B-3
IC105	B-3	D104	B-6
IC201	G-11		
IC202	F-6	D106	B-6
IC301	G-12	D113	B-3
		D131	B-3
IC302	F-12	D201	F-12
IC304	F-1	D301	E-1
IC401	D-12		
		D302	E-1
Q101	C-1	D305	E-1
Q101	F-7	D306	E-1
Q102	B-1	D401	D-14
Q103	B-1		
Q201	F-12	D402	D-15
		D403	D-11
Q201	G-13		
Q301	G-1		
Q302	E-1		
Q303	G-1		
Q304	E-1		

-  : indicated a lead wire mounted on the component side.
-  : indicated a lead wire mounted on the conductor side.
-  : Through hole.
-  : Pattern from the side which enables seeing.
-  : Pattern of the rear side.



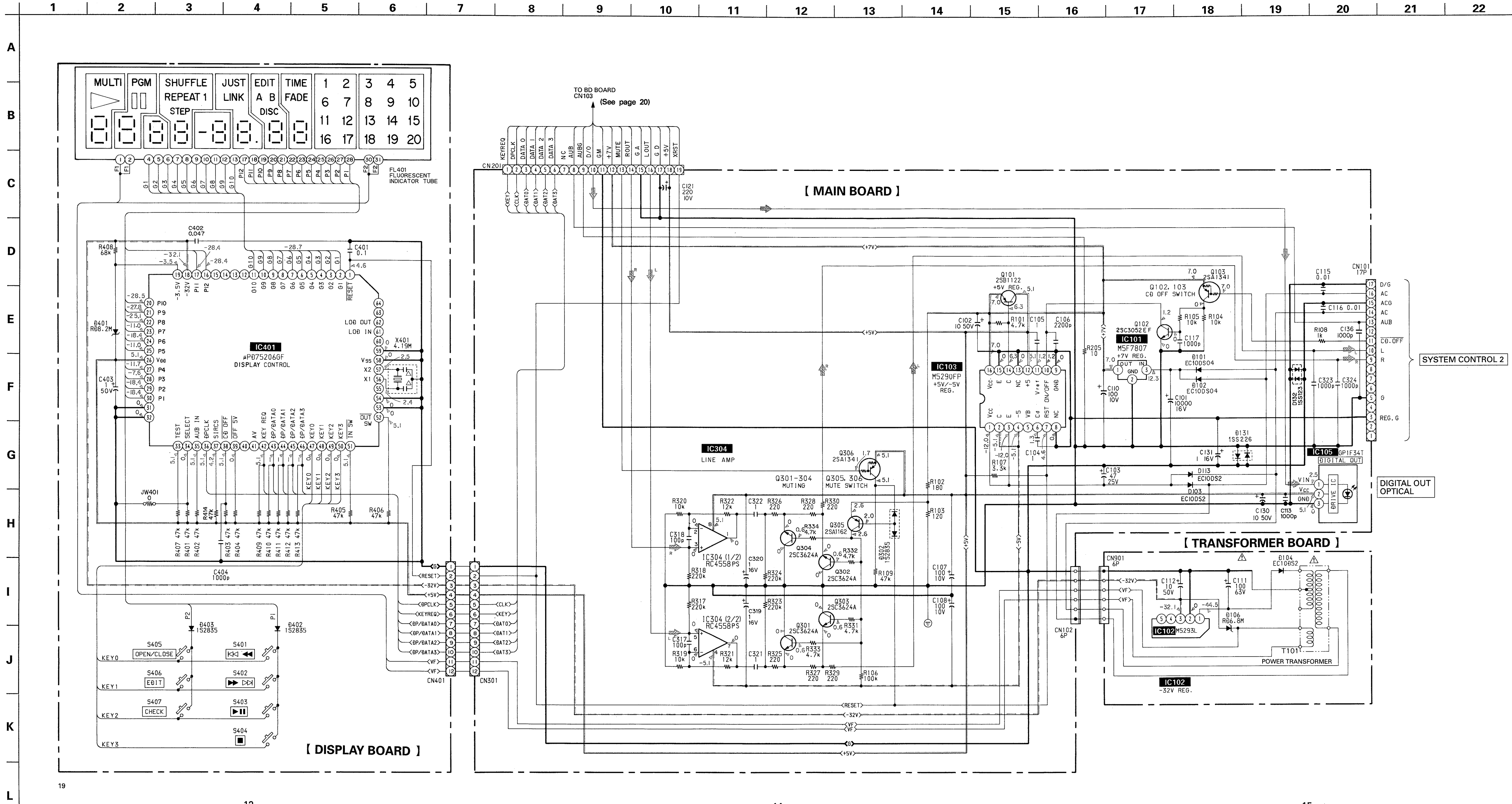
- Note:**
- All capacitors are in μF unless otherwise noted. pF: μF 50WV or less are not indicated except for electrolytics and tantalums.
 - All resistors are in ohms, 1/4W or less unless otherwise noted.
 - Δ : internal component.

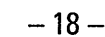
The components identified by mark Δ or dotted line with mark Δ are critical for safety.
Replace only with part number specified.

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

- --- : B-Line.
- --- : B-Line.
- --- : adjustment for repair.
- Voltages are DC between measurement points and ground.
no mark : PLAY
- Voltages are taken with a VOM (input impedance 10M Ω).
Voltage variations may be noted due to normal production tolerances.
- Signal path
- --- : CD

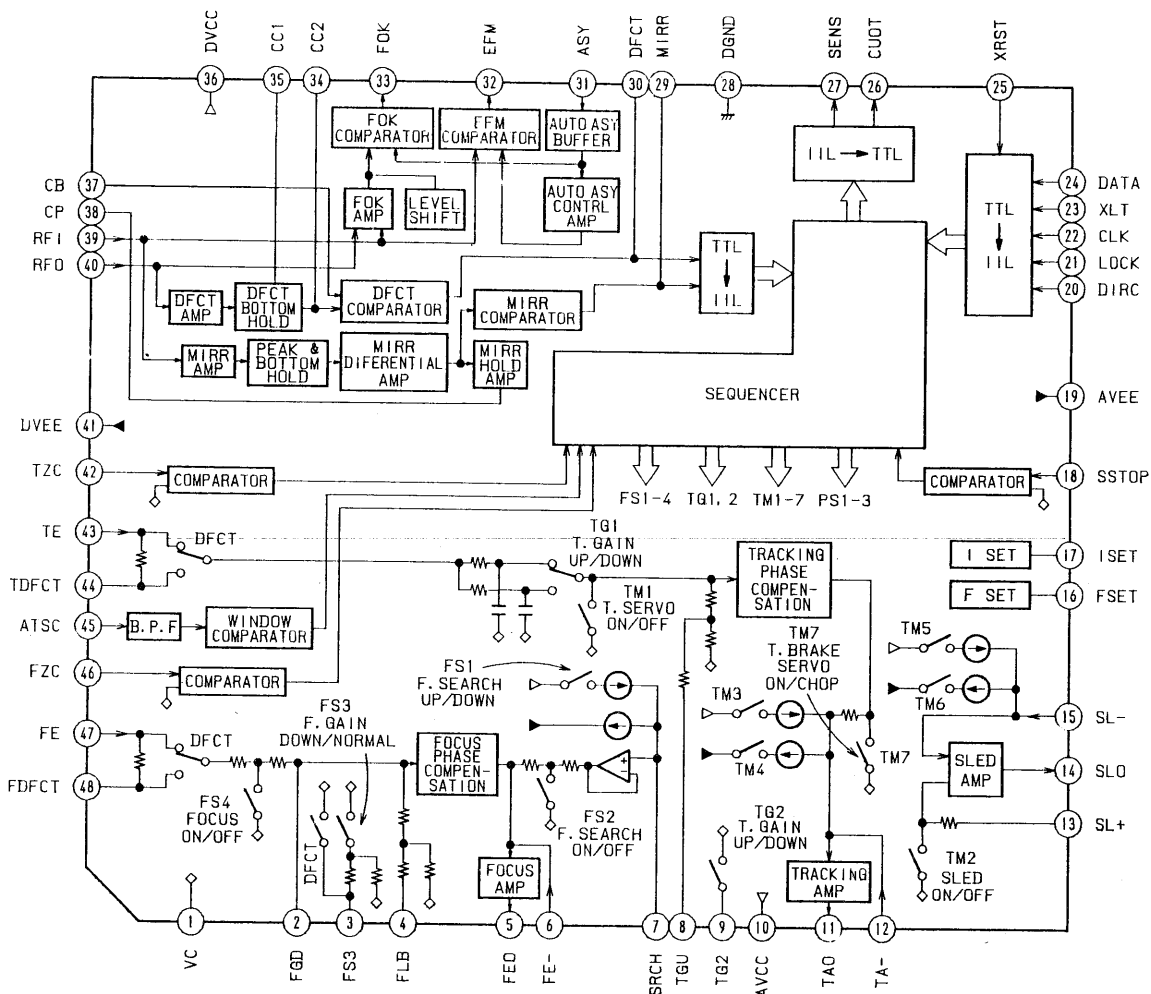
3-4. SCHEMATIC DIAGRAM - MAIN SECTION -



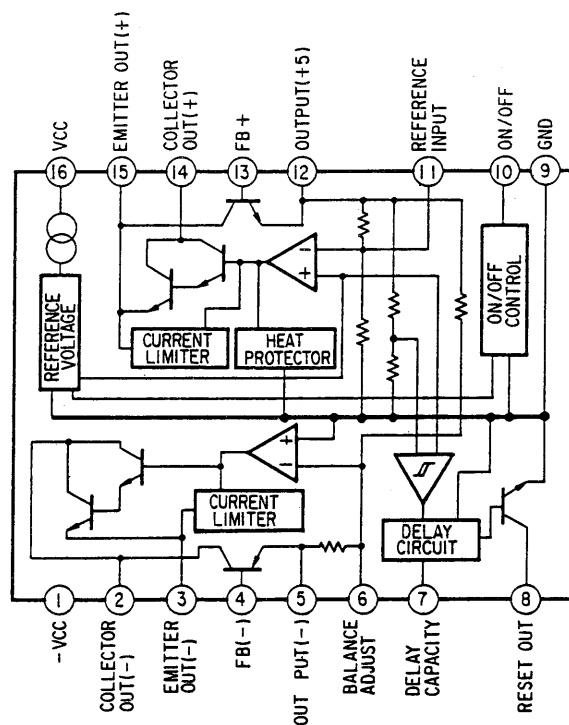
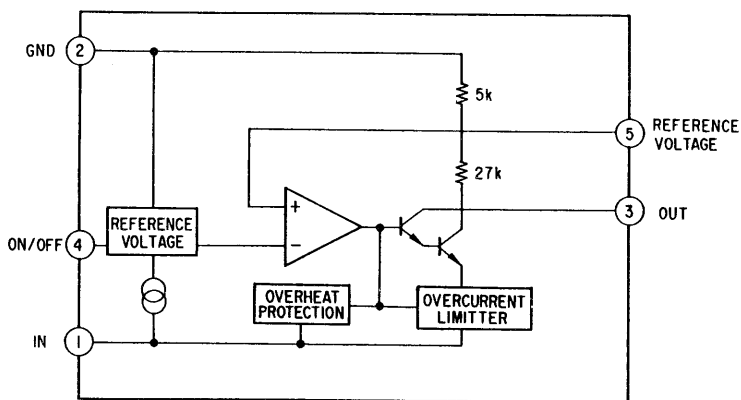


3-6. IC BLOCK DIAGRAMS

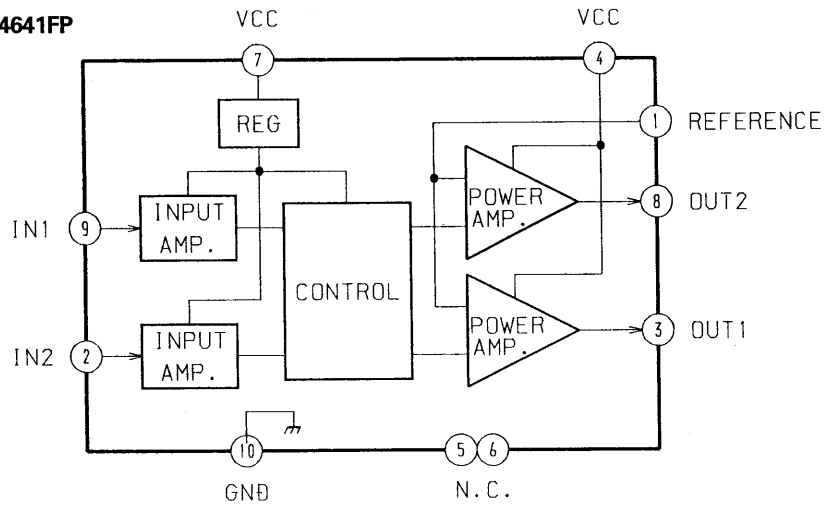
IC101 CXA1372Q



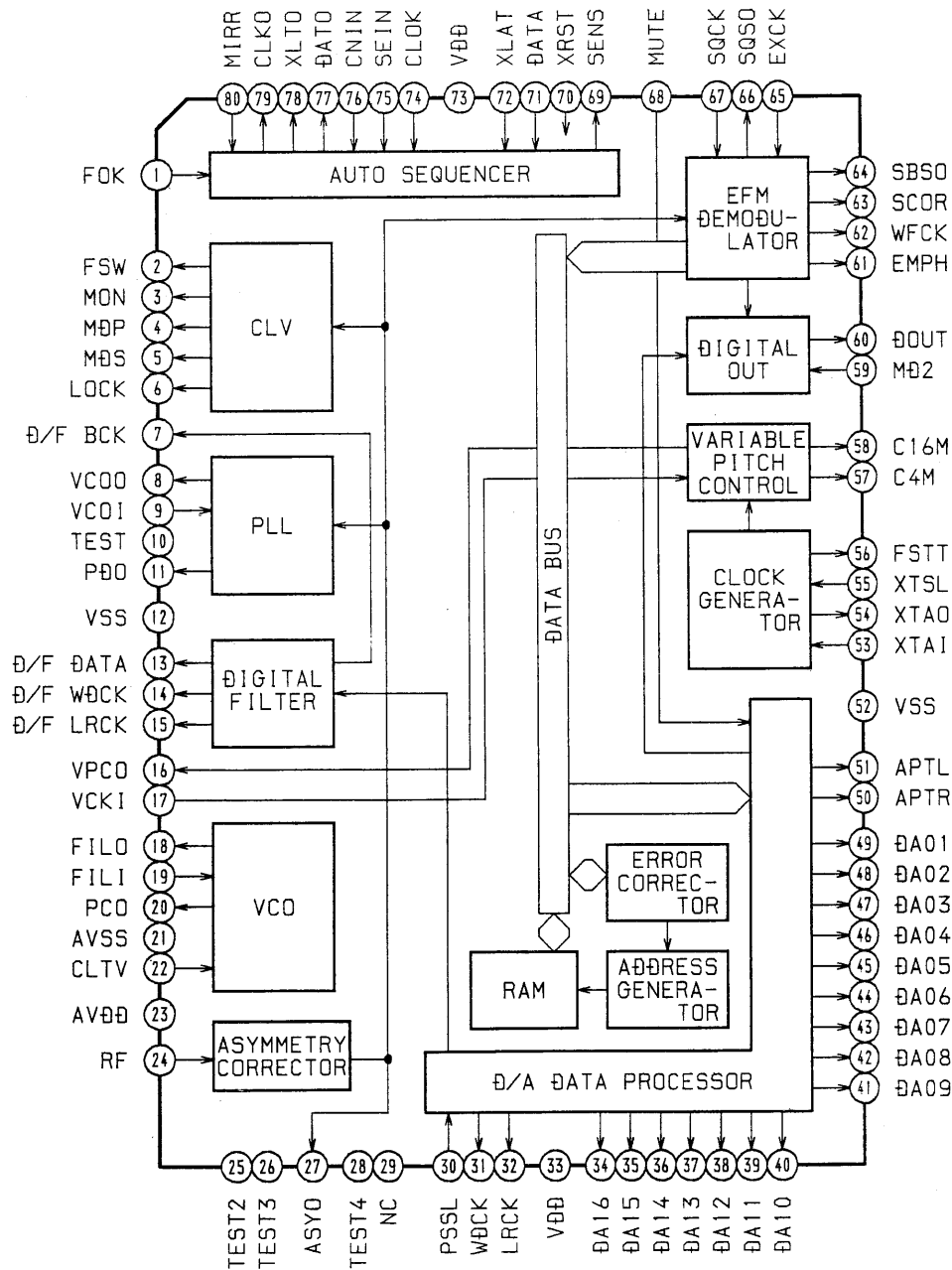
IC103 M5290FP

IC102 M5293L

IC103 M54641FP



IC201 CXD2505Q



3-7. PIN FUNCTION OF IC202 AND IC401

• IC202 CD System Controller (μPD75116GF-760-3BE)

Functions effected by the captioned controller include IC101 (RF signal processing, servo), IC201 (DSP, digital filter) and loading control in the CD unit, data exchange with IC401 (display controller), audio bus entry, etc.

Pin No.	Pin Name	I/O	Description
1-2	DPCLK	O	Not in use with the model (open).
3		O	Display data transfer clock output to IC401 (display micon)
4-6		O	Not in use with the model (open)
7	RESET	I	System reset input. "L": Reset
8	X2	I	Clock input
9	X1	I	Clock input (4 MHz)
10	DFCT SW	O	DEFECTION circuit ON/OFF switching output of IC101 (CXA1372Q). It is turned OFF ("H") to focus-search the DISC flaw detection circuit.
11	AMUTE	O	Muting control output. "H": Mute
12	BSOUT	O	Audio bus output
13	AFADJ	I	Test mode input. Various test operations are effected upon "L" after turning ON the POWER.
14	LDON	O	Optical pickup laser diode ON/OFF switching output. "H": ON
15	XLT	O	Serial data latch output to IC201 (CXD2505Q)
16	CLK	O	Serial data transfer clock output to IC201 (CXD2505Q)
17	DATA	O	Serial data output to IC201 (CXD2505Q)
18	MODE	I	Not in use with the model (GND)
19	ADJ	I	Test mode input. Upon "L," GFS checking is disabled while continuously rotating the spindle no matter whether frame synch is issued during PLAY, PAUSE or SEARCH.
20	GFS	I	GFS signal input from IC201 (CXD2505Q). "L": NG "H": OK
21	FOK	I	Focus OK signal input from IC101 (CXA1372Q). "H": OK
22 - 23	LODOUT LODIN	O	Not in use with the model (open)
24		O	Output to rotate M291 (loading motor) in the loading out direction. *1
25		O	Output to rotate M291 (loading motor) in the loading in direction. *1
26	Vss	—	Power terminal (GND)
27	IN SW	I	S292 (Loading in switch) input
28	OUT SW	I	S291 (Loading out switch) input
29	KEY REQ	I	Key data request input from IC401 (display controller)
30	BS IN	I	Audio bus input
31 - 36	SENS TIMER D/F 16BIT	I	Not in use with the model (GND)
37		I	SENS input from IC101 (CXA1372Q) and IC201 (CXD2505Q)
38		I	Not in use with the model (pull up)
39		I	IC201 (CXD2505Q) digital filter mode setting input. It is fixed at 16 bit, 4fs with the model (pull up).
40		I	Not in use with the model (GND)
41	SUBQ	I	Subcode Q data input from IC201 (CXD2505Q)
42	SQCLK SCOR	O	Not in use with the model (open)
43		O	Subcode Q data readout clock output to IC201 (CXD2505Q)
44		I	Subcode sync S0 + S1 detection input from IC201 (CXD2505Q)
45 - 56		O	Not in use with the model (open)
57	N.C.	I	Not in use with the model (+5V)
58	V _{DD}	—	Power terminal (+5V)
59 - 62	DPDATA3-0	I/O	Key data input and display data output with IC401 (display controller)
63 - 64		O	Not in use with the model (open)

*1 Loading motor control

	IN	OUT	BRAKE
LODOUT ②	L	H	H
LODIN ②	H	L	H

• IC401 Display controller (μPD75206GF-716-3BE)

In charge of displaying the FL tube and keying in, it exchanges data with the IC202 (CD syscon) in 4-bit parallel mode.

Pin No.	Pin Name	I/O	Description
1	RESET	I	System reset input. "L": Reset
2 - 11	G1-10	O	Digital output to the FL tube
12 - 15		O	Not in use with the model (open)
16, 17	l, k	O	FL tube segment output
18	VLOAD	—	Power supply for the FL tube controller (builtin) (-32V)
19	VPRE	—	Power supply for the FL tube predriver (-3.5V)
20 - 25	j ~ e	O	FL tube segment output
26	VDD	—	Power terminal (+5V)
27, 28	d, c	O	FL tube segment output
29, 30	b, a	O	FL tube segment, key scan output
31, 32		I	Not in use with the model (GND)
33	TEST	I	Test mode input. "L": Test mode
34	SELECT	I	Not in use with the model (pull up)
35	BSIN	I	Not in use with the model (pull up)
36	DPCLK	I	Display data transfer clock input from IC202 (CD syscon)
37, 38		I	Not in use with the model (pull up)
39		O	Not in use with the model (pull up)
40, 41		O	Not in use with the model (open)
42	KEY REQ	O	Key data request output to IC202 (CD syscon)
43 - 46	DPDATA0-3	I/O	Key data output and display data input with IC202 (CD syscon)
47 - 50	KEY0-3	I	Key data input
51, 52		I	Not in use with the model (pull up)
53, 54		I	Not in use with the model (GND)
55		O	Not in use with the model (open)
56	X1	I	System clock input (4.19 MHz)
57	X2	I	System clock input
58	Vss	—	Power supply terminal (GND)
59		I	Not in use with the model (GND)
60 - 64		O	Not in use with the model (open)

SECTION 4

EXPLODED VIEW

NOTE:

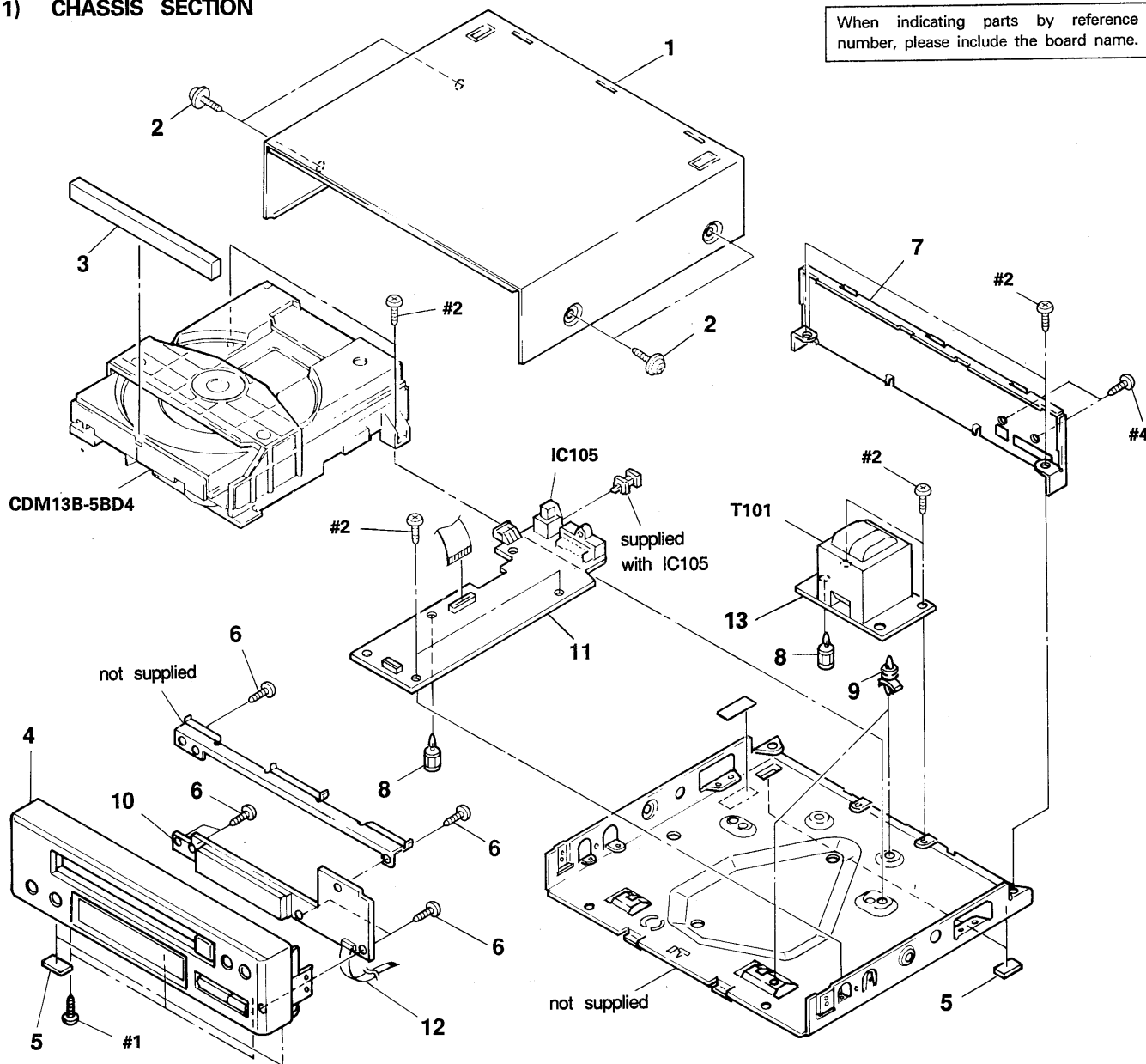
- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Color Indication of Appearance Parts
Example:
KNOB,BALANCE(WHITE)...(RED)
 ↑ ↑
 Parts color Cabinet's color

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware(# mark) list is given in the last of this parts list.

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

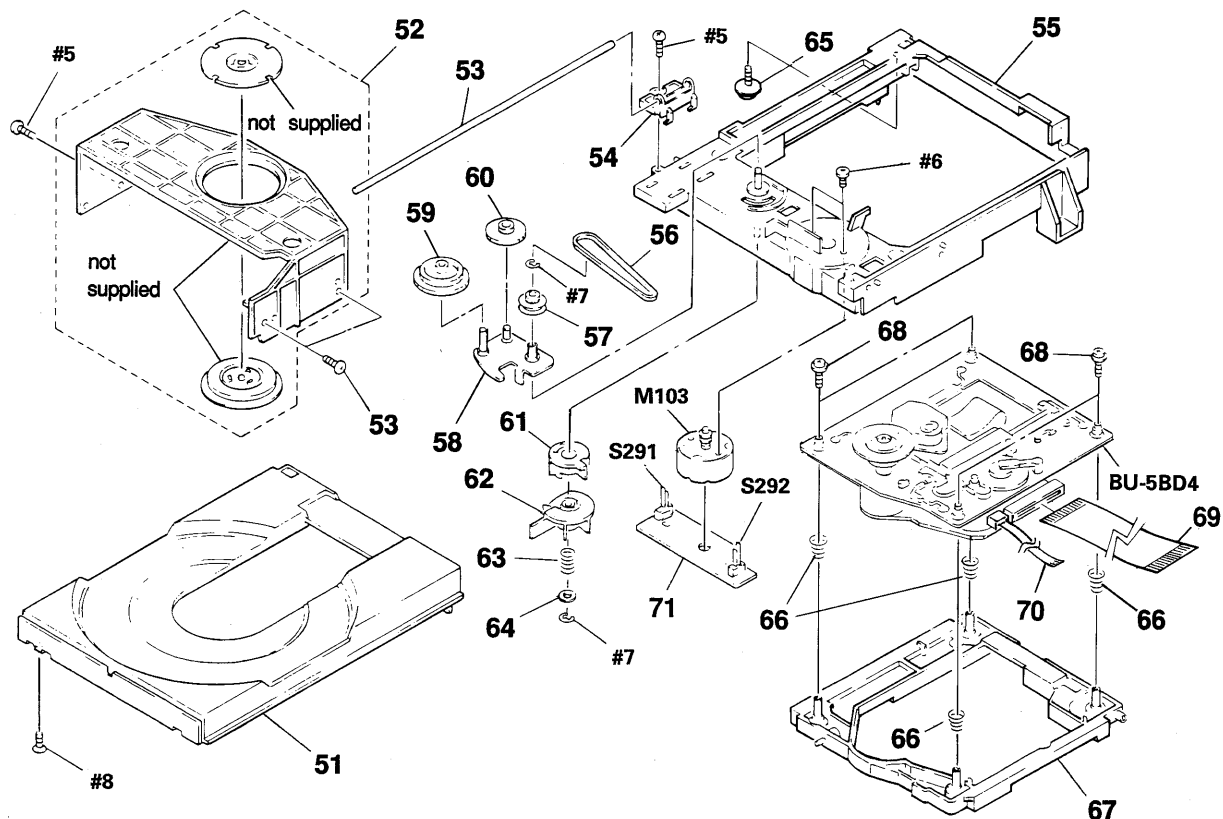
Les composants identifiés par une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

(1) CHASSIS SECTION

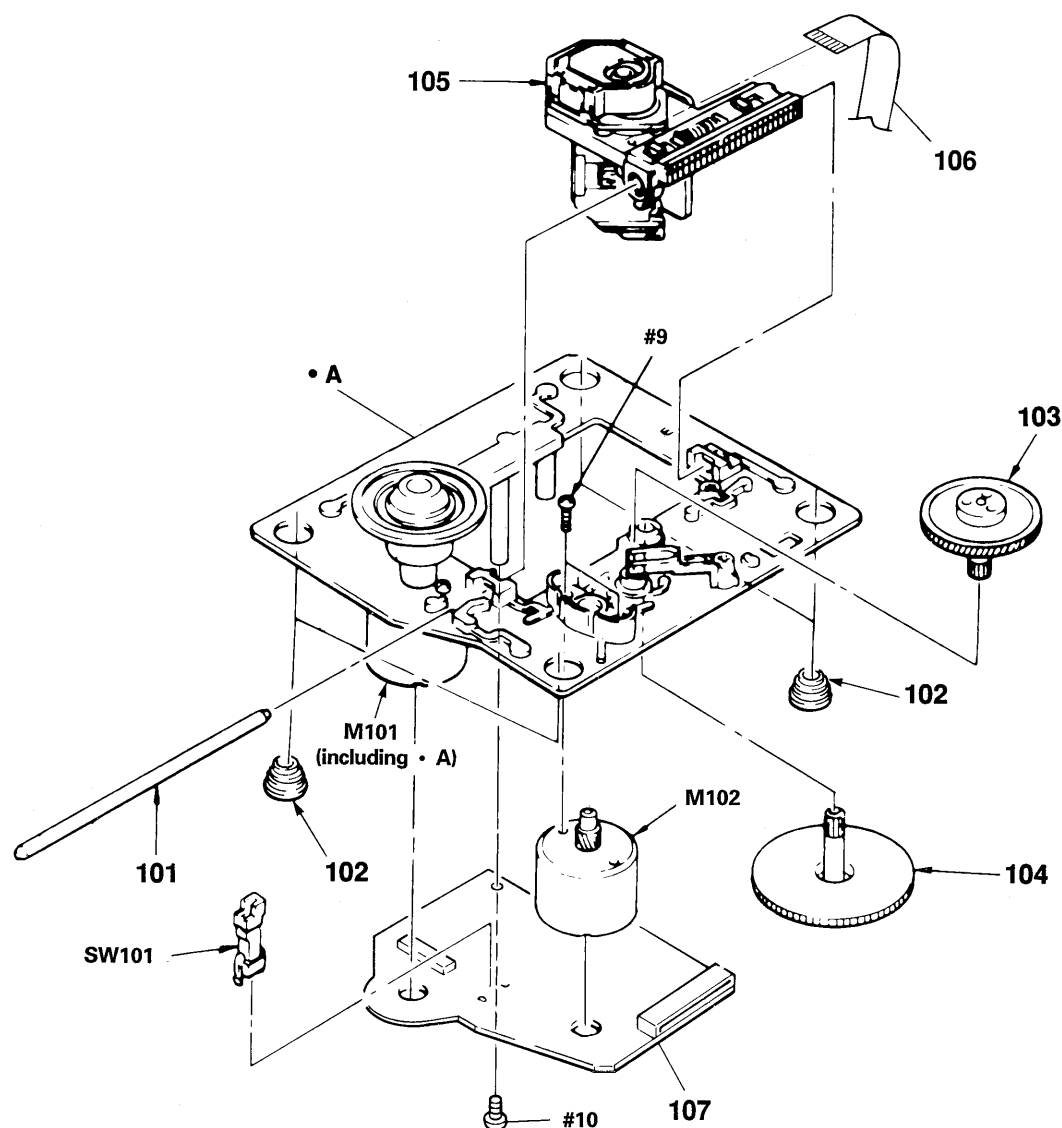
Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
1	* 4-944-423-01	CASE (K206522)		8	* 3-669-610-00	SPACER	
2	3-363-099-01	SCREW (CASE +3X8 TP2)		9	* 4-924-098-11	HOLDER, PC BOARD	
3	4-944-417-01	PANEL, LOADING		10	* A-4617-885-A	DISPLAY BOARD, COMPLETE	
4	X-4941-522-1	PANEL ASSY, FRONT		11	* A-4617-879-A	MAIN BOARD, COMPLETE	
5	4-930-336-01	FOOT (FELT)		12	1-575-001-11	WIRE, FLAT TYPE (12 CORE)	
6	4-928-635-01	SCREW, +BV (2. 6X8) TAPPING		13	*1-638-992-11	TRANSFORMER BOARD	
7	* 4-943-175-61	PAENL, BACK		T101	Δ 1-450-341-11	TRANSFORMER, POWER	

(2) CD MECHANISM SECTION (CDM13B-5BD4)



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
51	4-944-012-01	TABLE, DISC		63	3-659-338-00	SPRING, COMPRESSION	
52	A-4604-752-A	HOLDER (MG) ASSY		64	4-927-654-01	WASHER (LIMITER)	
53	4-929-764-01	SHAFT (TABLE GUIDE)		65	* 4-917-583-21	BRACKET, YOKE	
54	4-944-006-01	BEARING		66	4-917-541-01	SPRING (B)	
55	X-4941-462-1	CHASSIS (MD) ASSY		67	4-929-747-01	HOLDER (BU)	
56	4-927-649-01	BELT		68	4-933-134-01	SCREW (+PTPWH M2. 6X6)	
57	4-929-724-01	PULLEY (B)		69	1-590-909-21	WIRE, FLAT TYPE (19 CORE)	
58	X-4929-703-1	ARM ASSY, SWING		70	1-590-530-11	WIRE, FLAT TYPE (5 CORE)	
59	4-927-620-11	GEAR (P)		71	* 1-638-308-11	LOADING BOARD	
60	4-927-628-01	GEAR (C)		M103	A-4608-362-A	MOTOR (L) ASSY (LOADING)	
61	4-929-727-01	CAM (A)		S291	1-571-924-11	SWITCH, LEAF (LOAD OUT)	
62	4-929-729-01	CAM (B)		S292	1-571-924-11	SWITCH, LEAF (LOAD IN)	

(3) OPTICAL PICK-UP BLOCK (BU-5BD4)



Ref. No.	Part No.	Description	Remarks
101	4-917-565-01	SHAFT, SLED	
102	4-933-126-01	INSULATOR (A)	
103	4-917-567-01	GEAR (M)	
104	4-917-564-01	GEAR (P), FLATNESS	
105	△ 8-848-144-11	DEVICE, OPTICAL KSS-240A	
106	1-575-001-11	WIRE, FLAT TYPE (12 CORE)	
107	* A-4617-759-A	BD BOARD, COMPLETE	
M101	X-4917-523-3	ASSY, MOTOR (SPINDLE)	
M102	X-4917-504-1	ASSY, MOTOR (SLED)	
SW101	1-572-085-11	SWITCH, LEAF (LIMIT IN)	

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

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

BD

SECTION 5

ELECTRICAL PARTS LIST

NOTE:

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

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

When indicating parts by reference number, please include the board name.

- 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.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms
METAL : Metal-film resistor
METAL OXIDE : Metal Oxide-film resistor
F : nonflammable

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
In each case, u : μ , for example :
uA...: μ A..., uPA...: μ PA...,
uPB...: μ PB..., uPC...: μ PC...,
uPD...: μ PD...
- CAPACITORS
uF : μ F
- COILS
uH : μ H

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
* A-4617-759-A BD BOARD, COMPLETE *****				C174	1-163-038-00	CERAMIC CHIP 0.1uF	25V
< CAPACITOR >				C201	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V
C101	1-163-038-00	CERAMIC CHIP 0.1uF	25V	C202	1-163-145-00	CERAMIC CHIP 0.0015uF	5% 50V
C102	1-163-989-11	CERAMIC CHIP 0.033uF	10% 25V	C203	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C103	1-135-155-21	TANTALUM CHIP 4.7uF	10% 10V	C204	1-164-346-11	CERAMIC CHIP 1uF	16V
C104	1-163-038-00	CERAMIC CHIP 0.1uF	25V	C205	1-164-346-11	CERAMIC CHIP 1uF	16V
C105	1-126-607-11	ELECT CHIP 47uF	20% 4V	C206	1-163-101-00	CERAMIC CHIP 22PF	5% 50V
C106	1-126-607-11	ELECT CHIP 47uF	20% 4V	C207	1-163-101-00	CERAMIC CHIP 22PF	5% 50V
C107	1-126-607-11	ELECT CHIP 47uF	20% 4V	C208	1-164-346-11	CERAMIC CHIP 1uF	16V
C108	1-163-038-00	CERAMIC CHIP 0.1uF	25V	C209	1-164-346-11	CERAMIC CHIP 1uF	16V
C109	1-163-038-00	CERAMIC CHIP 0.1uF	25V	C210	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C110	1-163-989-11	CERAMIC CHIP 0.033uF	10% 25V	C301	1-164-346-11	CERAMIC CHIP 1uF	16V
C111	1-164-346-11	CERAMIC CHIP 1uF	16V	C302	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C112	1-164-232-11	CERAMIC CHIP 0.01uF	50V	C303	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C113	1-164-232-11	CERAMIC CHIP 0.01uF	50V	C304	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C114	1-164-695-11	CERAMIC CHIP 0.0022uF	5% 50V	C305	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C115	1-164-695-11	CERAMIC CHIP 0.0022uF	5% 50V	C306	1-163-145-00	CERAMIC CHIP 0.0015uF	5% 50V
C117	1-163-038-00	CERAMIC CHIP 0.1uF	25V	C307	1-163-145-00	CERAMIC CHIP 0.0015uF	5% 50V
C118	1-163-038-00	CERAMIC CHIP 0.1uF	25V	C308	1-164-346-11	CERAMIC CHIP 1uF	16V
C119	1-164-695-11	CERAMIC CHIP 0.0022uF	5% 50V	C309	1-164-346-11	CERAMIC CHIP 1uF	16V
C120	1-163-989-11	CERAMIC CHIP 0.033uF	10% 25V	C310	1-163-125-00	CERAMIC CHIP 220PF	5% 50V
C151	1-163-019-00	CERAMIC CHIP 0.0068uF	10% 50V	C311	1-163-125-00	CERAMIC CHIP 220PF	5% 50V
C152	1-164-346-11	CERAMIC CHIP 1uF	16V	C312	1-164-346-11	CERAMIC CHIP 1uF	16V
C153	1-163-135-00	CERAMIC CHIP 560PF	5% 50V	< CONNECTOR >			
C154	1-164-695-11	CERAMIC CHIP 0.0022uF	5% 50V	CN101	1-580-858-11	SOCKET, CONNECTOR (SMT) 5P	
C155	1-163-023-00	CERAMIC CHIP 0.015uF	5% 50V	CN102	1-580-866-11	SOCKET, CONNECTOR (SMT) 12P	
C171	1-163-038-00	CERAMIC CHIP 0.1uF	25V	CN103	1-580-872-41	SOCKET, CONNECTOR (SMT) 19P	
C172	1-163-038-00	CERAMIC CHIP 0.1uF	25V	< DIODE >			
C173	1-163-038-00	CERAMIC CHIP 0.1uF	25V	D101	8-719-976-96	DIODE DTZ4.7B	
				D201	8-719-988-62	DIODE 1SS355	

BD

MAIN

DISPLAY

TRANSFORMER

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
< IC >				R212	1-236-427-11	NETWORK, RES 18K	
IC101	8-752-050-82	IC CXA1372Q		R214	1-239-039-11	NETWORK, RES (1608)	
IC102	8-759-823-48	IC LA6525M		R215	1-216-049-00	METAL CHIP 1K	5% 1/10W
IC103	8-759-636-20	IC M54641FP		R218	1-216-065-00	METAL CHIP 4.7K	5% 1/10W
IC201	8-752-340-37	IC CXD2505Q		R219	1-216-073-00	METAL CHIP 10K	5% 1/10W
IC202	8-759-153-16	IC uPD75116GF-760-3BE		R220	1-216-001-00	METAL CHIP 10	5% 1/10W
IC301	8-759-506-63	IC PCM67U		R222	1-236-427-11	NETWORK, RES 18K	
IC302	8-759-981-95	IC RC4558S		R223	1-216-081-00	METAL CHIP 22K	5% 1/10W
< TRANSISTOR >				R224	1-216-081-00	METAL CHIP 22K	5% 1/10W
Q101	8-729-805-45	TRANSISTOR 2SC3395		R225	1-216-081-00	METAL CHIP 22K	5% 1/10W
Q201	8-729-602-21	TRANSISTOR 2SC4154-F		R226	1-216-081-00	METAL CHIP 22K	5% 1/10W
< RESISTOR >				R301	1-236-413-11	NETWORK, RES 1.2K	
R101	1-216-097-00	METAL CHIP 100K	5% 1/10W	R303	1-216-056-00	METAL GLAZE 2K	5% 1/10W
R102	1-216-097-00	METAL CHIP 100K	5% 1/10W	R304	1-216-056-00	METAL GLAZE 2K	5% 1/10W
R103	1-216-091-00	METAL CHIP 56K	5% 1/10W	R305	1-216-097-00	METAL CHIP 100K	5% 1/10W
R104	1-216-099-00	METAL CHIP 120K	5% 1/10W	R306	1-216-097-00	METAL CHIP 100K	5% 1/10W
R105	1-216-069-00	METAL CHIP 6.8K	5% 1/10W	< VARIABLE RESISTOR >			
R106	1-216-061-00	METAL CHIP 3.3K	5% 1/10W	RV101	1-241-395-11	RES, ADJ, METAL GLAZE 10K	
R107	1-216-114-00	METAL GLAZE 510K	5% 1/10W	RV102	1-241-395-11	RES, ADJ, METAL GLAZE 10K	
R108	1-216-105-00	METAL CHIP 220K	5% 1/10W	< SWITCH >			
R109	1-216-061-00	METAL CHIP 3.3K	5% 1/10W	SW101	1-572-085-11	SWITCH, LEAF (LIMIT IN)	
R110	1-216-049-00	METAL CHIP 1K	5% 1/10W	< CRYSTAL >			
R111	1-216-049-00	METAL CHIP 1K	5% 1/10W	X101	1-579-280-11	VIBRATOR, CRYSTAL (16.9344MHz)	
R112	1-216-083-00	METAL CHIP 27K	5% 1/10W	X202	1-579-216-11	VIBRATOR, CERAMIC (4.0MHz)	
R113	1-216-071-00	METAL CHIP 8.2K	5% 1/10W	*****			
R114	1-216-105-00	METAL CHIP 220K	5% 1/10W	* A-4617-879-A MAIN BOARD, COMPLETE			
R152	1-216-073-00	METAL CHIP 10K	5% 1/10W	*****			
R153	1-216-085-00	METAL CHIP 33K	5% 1/10W	* A-4617-885-A DISPLAY BOARD, COMPLETE			
R154	1-216-085-00	METAL CHIP 33K	5% 1/10W	*****			
R155	1-216-093-00	METAL CHIP 68K	5% 1/10W	* 1-638-992-11 TRANSFORMER BOARD			
R156	1-216-081-00	METAL CHIP 22K	5% 1/10W	*****			
R157	1-236-427-11	NETWORK, RES 18K		* 4-880-403-11 HEAT SINK			
R159	1-216-079-00	METAL CHIP 18K	5% 1/10W	* 4-932-810-11 CUSHION (FL)			
R160	1-216-049-00	METAL CHIP 1K	5% 1/10W	< CAPACITOR >			
R171	1-216-001-00	METAL CHIP 10	5% 1/10W	C101	1-126-939-11	ELECT 10000uF	20% 16V
R172	1-216-001-00	METAL CHIP 10	5% 1/10W	C102	1-124-907-11	ELECT 10uF	20% 50V
R173	1-216-001-00	METAL CHIP 10	5% 1/10W	C103	1-124-477-11	ELECT 47uF	20% 25V
R174	1-216-001-00	METAL CHIP 10	5% 1/10W	C104	1-164-346-11	CERAMIC CHIP 1uF	16V
R201	1-216-061-00	METAL CHIP 3.3K	5% 1/10W	C105	1-164-346-11	CERAMIC CHIP 1uF	16V
R202	1-216-073-00	METAL CHIP 10K	5% 1/10W	C106	1-164-161-11	CERAMIC CHIP 0.0022uF	10% 100V
R203	1-216-061-00	METAL CHIP 3.3K	5% 1/10W	C107	1-124-443-00	ELECT 100uF	20% 10V
R204	1-216-049-00	METAL CHIP 1K	5% 1/10W	C108	1-124-443-00	ELECT 100uF	20% 10V
R205	1-216-089-00	METAL CHIP 47K	5% 1/10W	C110	1-124-443-00	ELECT 100uF	20% 10V
R208	1-216-049-00	METAL CHIP 1K	5% 1/10W	C111	1-126-063-11	ELECT 100uF	20% 63V
R209	1-216-081-00	METAL CHIP 22K	5% 1/10W	C112	1-124-907-11	ELECT 10uF	20% 50V
R210	1-236-427-11	NETWORK, RES 18K					

MAIN	DISPLAY	TRANSFORMER
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Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
C113	1-164-346-11	CERAMIC CHIP 1uF	16V	IC105	8-749-922-39	IC GP1F34T	
C115	1-164-232-11	CERAMIC CHIP 0.01uF	50V	IC304	8-759-981-95	IC RC4558S	
C116	1-164-232-11	CERAMIC CHIP 0.01uF	50V	IC401	8-759-154-14	IC uPD75206GF-716-3BE	
C117	1-163-009-11	CERAMIC CHIP 0.001uF	10% 50V			< JUMPER >	
C120	1-124-443-00	ELECT 100uF	20% 10V	JW401	1-216-295-00	METAL CHIP 0	5% 1/10W
C121	1-126-176-11	ELECT 220uF	20% 10V			< TRANSISTOR >	
C131	1-164-346-11	CERAMIC CHIP 1uF	16V	Q101	8-729-804-41	TRANSISTOR 2SB1122-S	
C317	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	Q102	8-729-620-06	TRANSISTOR 2SC3052-EF	
C318	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	Q103	8-729-805-69	TRANSISTOR 2SA1341	
C319	1-164-346-11	CERAMIC CHIP 1uF	16V	Q110	8-729-807-51	TRANSISTOR 2SD1623-S	
C320	1-164-346-11	CERAMIC CHIP 1uF	16V	Q120	8-729-804-41	TRANSISTOR 2SB1122	
C321	1-164-346-11	CERAMIC CHIP 1uF	16V				
C322	1-164-346-11	CERAMIC CHIP 1uF	16V	Q301	8-729-107-46	TRANSISTOR 2SC3624A-L15	
C323	1-163-009-11	CERAMIC CHIP 0.001uF	10% 50V	Q302	8-729-107-46	TRANSISTOR 2SC3624A-L15	
C324	1-163-009-11	CERAMIC CHIP 0.001uF	10% 50V	Q303	8-729-107-46	TRANSISTOR 2SC3624A-L15	
C401	1-163-038-00	CERAMIC CHIP 0.1uF	25V	Q304	8-729-107-46	TRANSISTOR 2SC3624A-L15	
C402	1-163-035-00	CERAMIC CHIP 0.047uF	50V				
C403	1-164-346-11	CERAMIC CHIP 1uF	16V	Q305	8-729-216-22	TRANSISTOR 2SA1162-G	
C404	1-163-009-11	CERAMIC CHIP 0.001uF	10% 50V	Q306	8-729-805-69	TRANSISTOR 2SA1341	
		< CONNECTOR >				< RESISTOR >	
CN101	* 1-569-624-11	SOCKET, CONNECTOR 17P		R101	1-216-065-00	METAL CHIP 4.7K	5% 1/10W
CN102	1-568-662-11	CONNECTOR, BOARD TO BOARD 6P		R102	1-216-031-00	METAL CHIP 180	5% 1/10W
CN201	* 1-573-149-11	SOCKET, CONNECTOR 19P		R103	1-216-027-00	METAL CHIP 120	5% 1/10W
CN301	* 1-573-099-11	HOUSING, CONNECTOR 12P		R104	1-216-073-00	METAL CHIP 10K	5% 1/10W
CN401	* 1-573-098-11	HOUSING, CONNECTOR 12P		R105	1-216-073-00	METAL CHIP 10K	5% 1/10W
CN901	1-568-668-11	CONNECTOR, BOARD TO BOARD 6P					
		< DIODE >		R106	1-216-097-00	METAL CHIP 100K	5% 1/10W
D101	8-719-210-39	DIODE EC10QS-04		R107	1-216-061-00	METAL CHIP 3.3K	5% 1/10W
D102	8-719-210-39	DIODE EC10QS-04		R108	1-216-049-00	METAL CHIP 1K	5% 1/10W
D103	8-719-210-33	DIODE EC10DS2		R109	1-216-089-00	METAL CHIP 47K	5% 1/10W
D104	8-719-210-33	DIODE EC10DS2		R110	1-216-025-00	METAL CHIP 100	5% 1/10W
D106	8-719-106-17	DIODE RD6.8M-B2					
D113	8-719-210-33	DIODE EC10DS2		R120	1-216-025-00	METAL CHIP 100	5% 1/10W
D131	8-719-800-76	DIODE 1SS226		R205	1-216-001-00	METAL CHIP 10	5% 1/10W
D302	8-719-104-34	DIODE 1S2836		R317	1-216-105-00	METAL CHIP 220K	5% 1/10W
D401	8-719-106-36	DIODE RD8.2M-B3		R318	1-216-105-00	METAL CHIP 220K	5% 1/10W
				R319	1-216-073-00	METAL CHIP 10K	5% 1/10W
D402	8-719-104-34	DIODE 1S2836					
D403	8-719-104-34	DIODE 1S2836		R320	1-216-073-00	METAL CHIP 10K	5% 1/10W
		< INDICATOR TUBE >		R321	1-216-075-00	METAL CHIP 12K	5% 1/10W
FL401	1-519-652-11	INDICATOR TUBE, FLUORESCENT		R322	1-216-075-00	METAL CHIP 12K	5% 1/10W
		< IC >		R323	1-216-105-00	METAL CHIP 220K	5% 1/10W
IC101	8-759-604-86	IC M5F7807L		R324	1-216-105-00	METAL CHIP 220K	5% 1/10W
IC102	8-759-633-42	IC M5293L					
IC103	8-759-636-24	IC M5290FP		R325	1-216-033-00	METAL CHIP 220	5% 1/10W
				R326	1-216-033-00	METAL CHIP 220	5% 1/10W
				R327	1-216-033-00	METAL CHIP 220	5% 1/10W
				R328	1-216-033-00	METAL CHIP 220	5% 1/10W
				R329	1-216-033-00	METAL CHIP 220	5% 1/10W
				R330	1-216-033-00	METAL CHIP 220	5% 1/10W
				R331	1-216-065-00	METAL CHIP 4.7K	5% 1/10W

LOADING

Ref.No.	Part No.	Description	Remarks
MISCELLANEOUS			

69	1-590-909-21	WIRE, FLAT TYPE (19 CORE)	
70	1-590-530-11	WIRE, FLAT TYPE (5 CORE)	
105	△ 8-848-144-11	DEVICE, OPTICAL KSS-240A	
106	1-575-001-11	WIRE, FLAT TYPE (12 CORE)	
M101	X-4917-523-3	ASSY, MOTOR (SPINDLE)	
M102	X-4917-504-1	ASSY, MOTOR (SLED)	
M103	A-4608-362-A	MOTOR (L) ASSY (LOADING)	

ACCESSORY & PACKING MATERIAL			

	4-920-941-01	SHEET (B), PROTECTION	
*	4-945-079-01	CUSHION	

HARDWARE LIST			
# 1	7-682-547-09	SCREW +BVTT	3X6 (S)
# 2	7-682-547-04	SCREW +BVTT	3X6 (S)
# 3	7-685-135-19	SCREW +BTP	2. 6X10 TYPE2 N-S
# 4	7-685-647-79	SCREW +BVTP	3X10 TYPE2 N-S
# 5	7-685-646-79	SCREW +BVTP	3X8 TYPE2 N-S
# 6	7-621-775-10	SCREW +B	2. 6X4
# 7	7-624-105-04	STOP RING	2. 3, TYPE -E
# 8	7-685-234-19	SCREW +KTP	2. 6X8 TYPE2NON-SLIT
# 9	7-621-255-15	SCREW +P	2X3
#10	7-685-134-19	SCREW +BTP	2. 6X8 TYPE2 N-S
#11	7-682-548-04	SCREW +BVTT	3X8 (S)

When indicating parts by reference number, please include the board name.

CDP-H3600

SONY[®] SERVICE MANUAL

*US Model
Canadian Model
E Model
Australian Model*

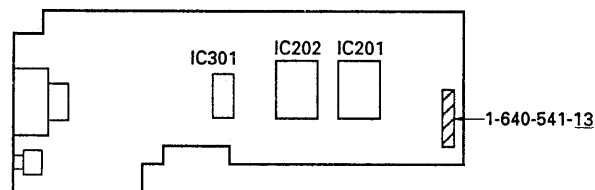
SUPPLEMENT-2

File this Supplement with the Service Manual.

Subject : The main board of C type has been change.

Note for discrimination :

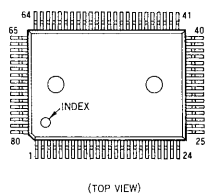
You can discriminate either type according to the silk printing and mounted parts on the main board.



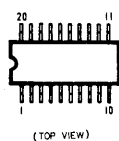
SECTION 1 DIAGRAMS

1-1. SEMICONDUCTOR LEAD LAYOUTS

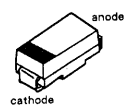
CXD2500BQ



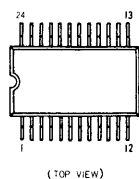
PCM67U



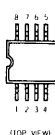
**EC10DS2
EC10QS-04**



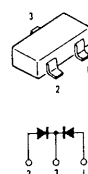
CXD2554M



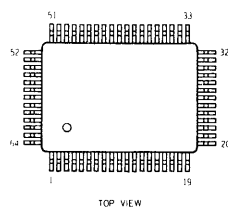
RC4558PS



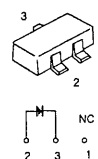
MA152WK



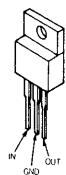
μPD75116GF-F21-3BE



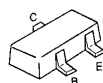
UZM3.9X



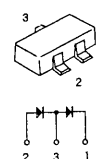
M5F78M07L



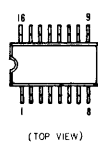
**DTA144EK
2SA1162-G
2SC1623-L5L6**



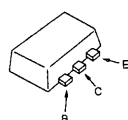
1SS226



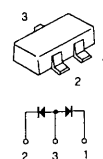
M5290FP



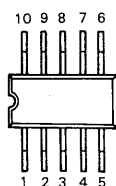
2SB1122-S



1S2836



M54641FP



1-2. PRINTED WIRING BOARD

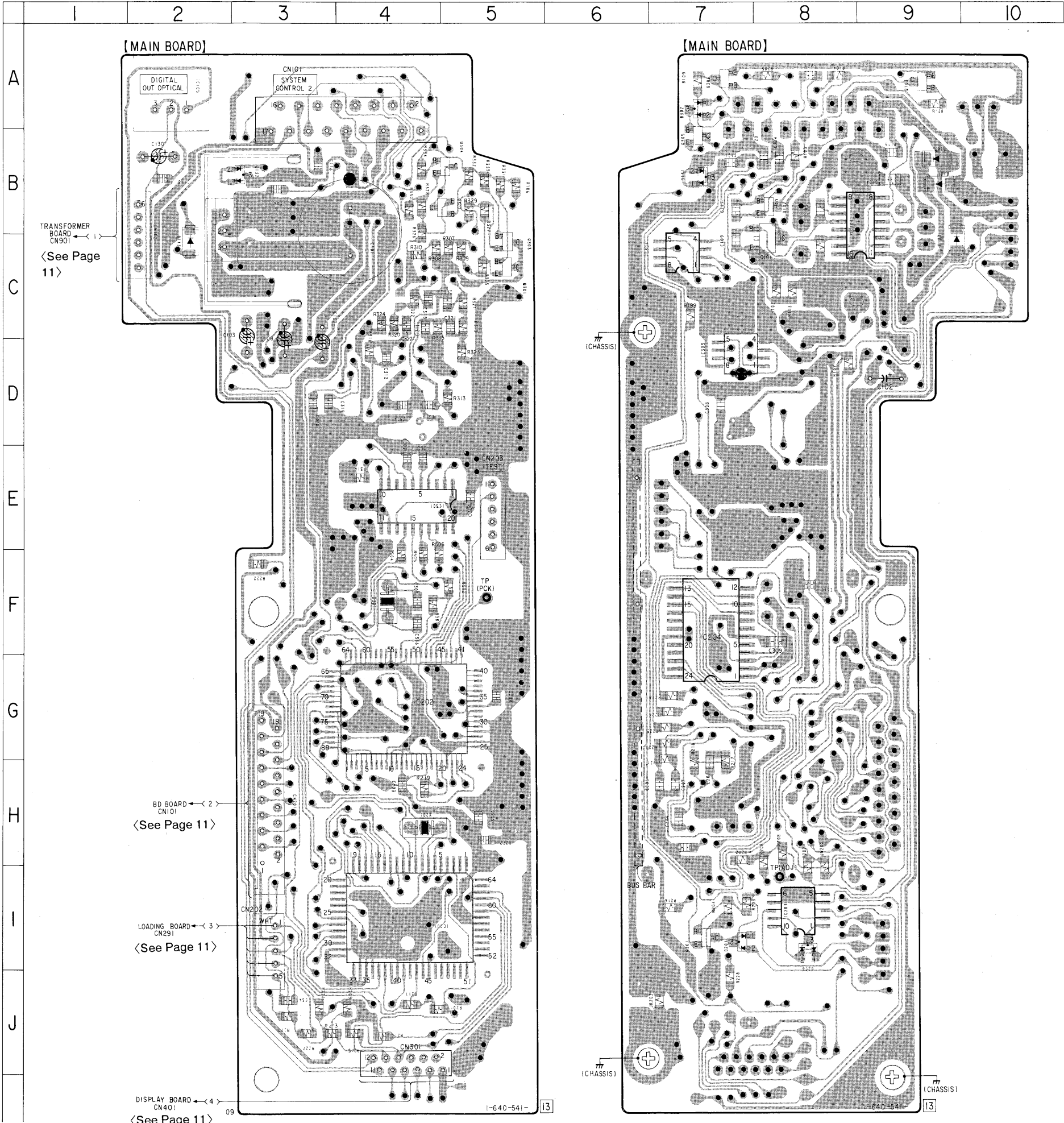
- See page 2 for Semiconductor Lead Layouts.
- < > : The pages above correspond to CDP-H3600 SUPPLEMENT-1.

• SEMICONDUCTOR LOCATION

Ref. No.	Location
D101	B-9
D102	B-9
D103	C-9
D113	C-2
D131	B-7
D132	B-3
D201	I-7
D206	J-8
D302	A-7
IC101	C-2
IC103	B-8
IC105	A-2
IC201	I-4
IC202	G-4
IC203	I-8
IC204	F-7
IC301	E-4
IC303	D-7
IC304	C-6
Q101	C-8
Q102	B-8
Q103	A-9
Q201	I-7
Q301	C-5
Q302	B-5
Q303	C-5
Q304	B-5
Q305	B-7
Q306	A-7

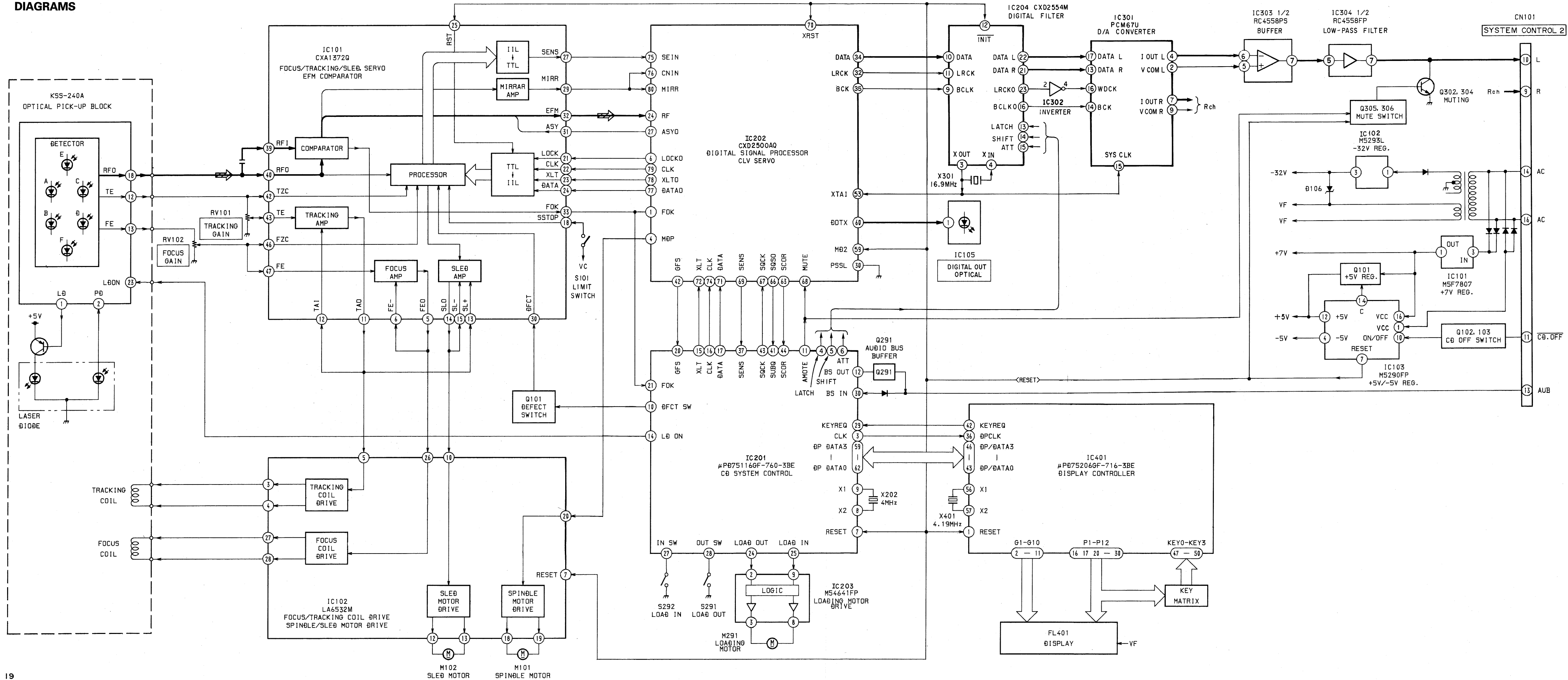
Note:

- ○ : parts extracted from the component side.
- ● : Through hole.
- [Pattern] : Pattern from the side which enable seeing. (The other layer's patterns are not indicated.)



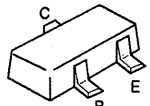
2-1. BLOCK DIAGRAM

SECTION 2
DIAGRAMS

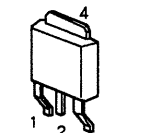


2-2. SEMICONDUCTOR LEAD LAYOUTS

DTC144EK
2SA1162-G
2SC3052-EF
2SC3624A-L15

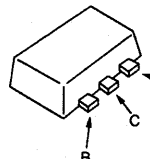


2SA1341

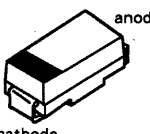


1: BASE
2: COLLECTOR
3: EMITTER
4: COLLECTOR

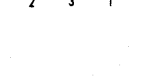
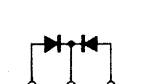
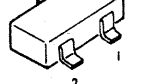
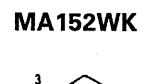
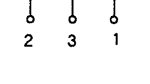
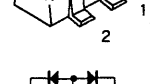
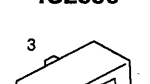
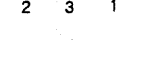
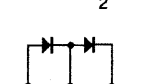
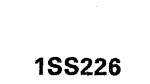
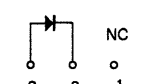
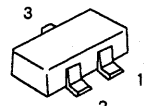
2SB1122-S



EC10DS2
EC10QS-04



RD3.9M-B2
RD6.8M-B2
RD8.2M-B3



• SEMICONDUCTOR LOCATION

EXCEPT BD BOARD

Ref. No.	LOCATION
D101	B-7
D102	B-7
D103	B-7
D104	G-11
D106	F-10
D113	B-1
D131	B-5
D132	B-2
D201	H-6
D206	H-6
D302	A-5
D401	C-13
D402	D-10
D403	C-16
IC101	B-2
IC102	G-9
IC103	B-7
IC105	A-1
IC201	H-3
IC202	F-3
IC203	H-6
IC204	E-5
IC301	D-3
IC302	E-6
IC303	C-6
IC304	B-5
IC401	C-15
Q101	B-6
Q102	B-6
Q103	A-7
Q201	H-5
Q301	B-4
Q302	B-3
Q303	B-4
Q304	B-3
Q305	B-5
Q306	A-5

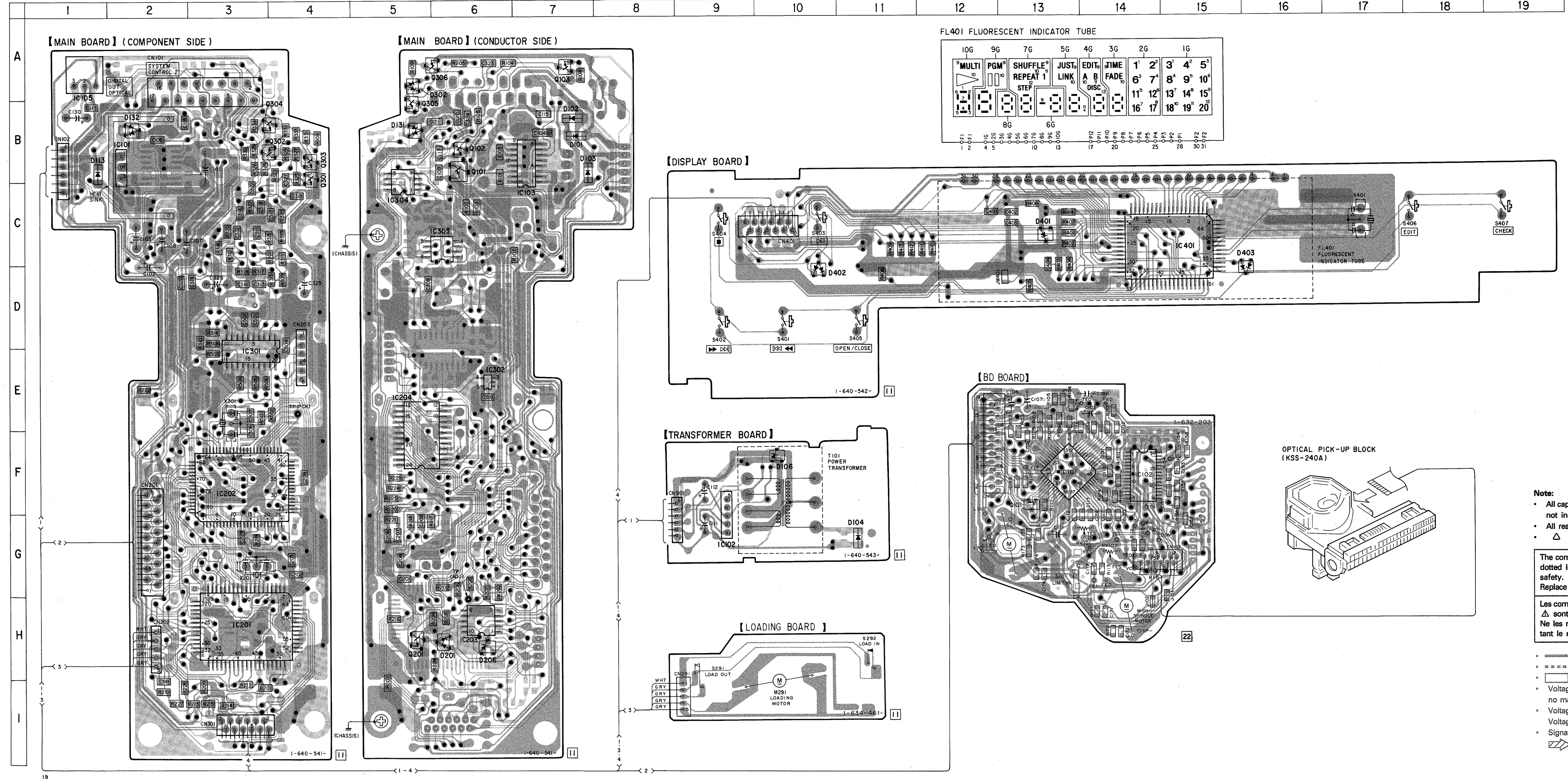
BD BOARD

Ref. No.	LOCATION
IC101	F-13
IC102	F-14
Q101	F-13

Note:

- : Indicated a lead wire mounted on the component side.
- : Indicated a lead wire mounted on the conductor side.
- : Through hole.
- : Pattern from the side which enables seeing.
- : Pattern of the rear side.

2-3. PRINTED WIRING BOARDS



Note:

- All capacitors are in μF unless otherwise noted. pF : μF 50V or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, $1/4\text{W}$ or less unless otherwise noted.
- Δ : internal component.

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

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

- : B+ Line.
- : B- Line.
- : adjustment for repair.
- Volts are DC between measurement points and ground.
no mark : PLAY
- Volts are taken with a VOM (input impedance $10\text{M}\Omega$).
Voltage variations may be noted due to normal production tolerances.
- Signal path
- CD

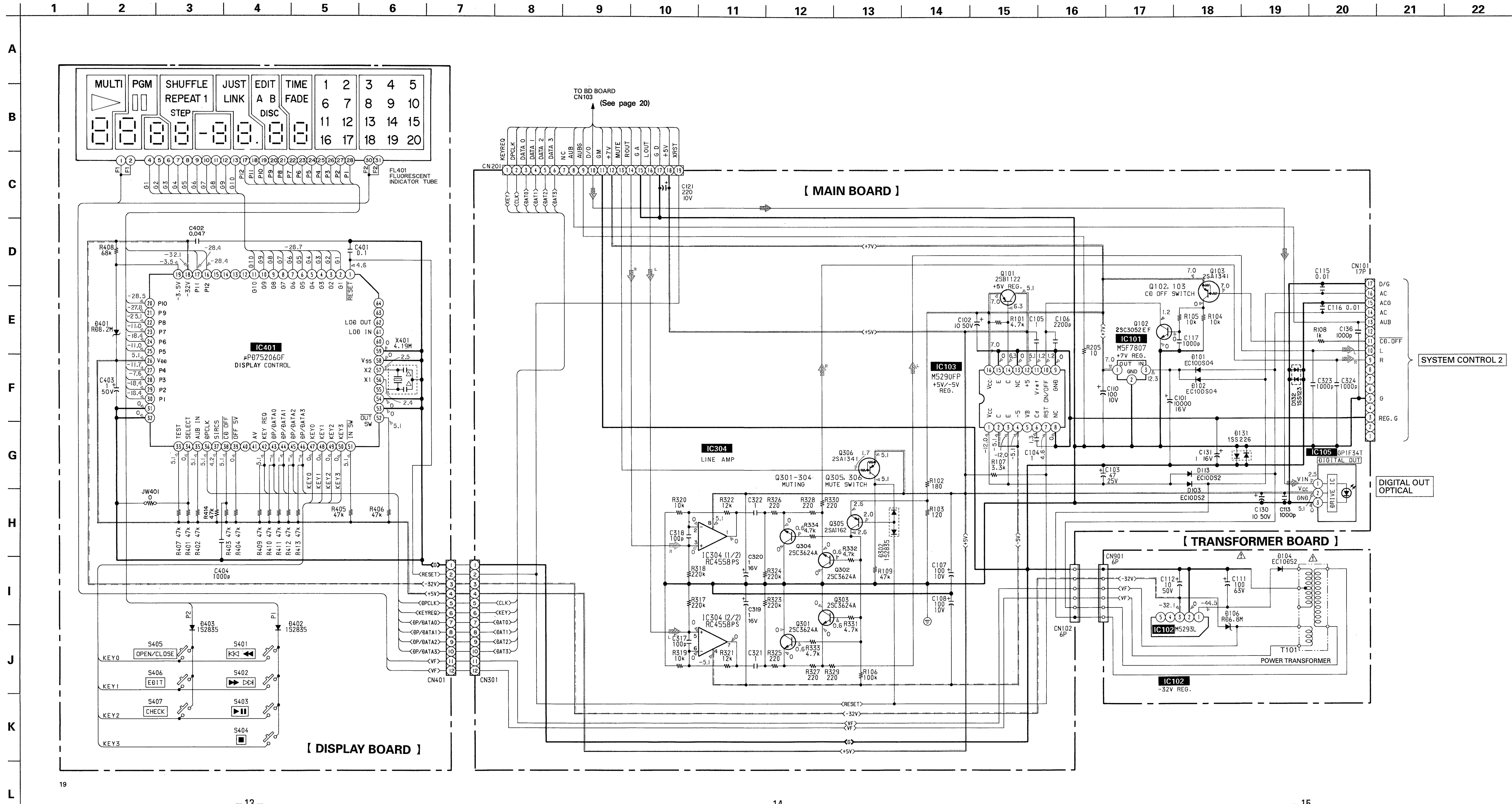
Note:

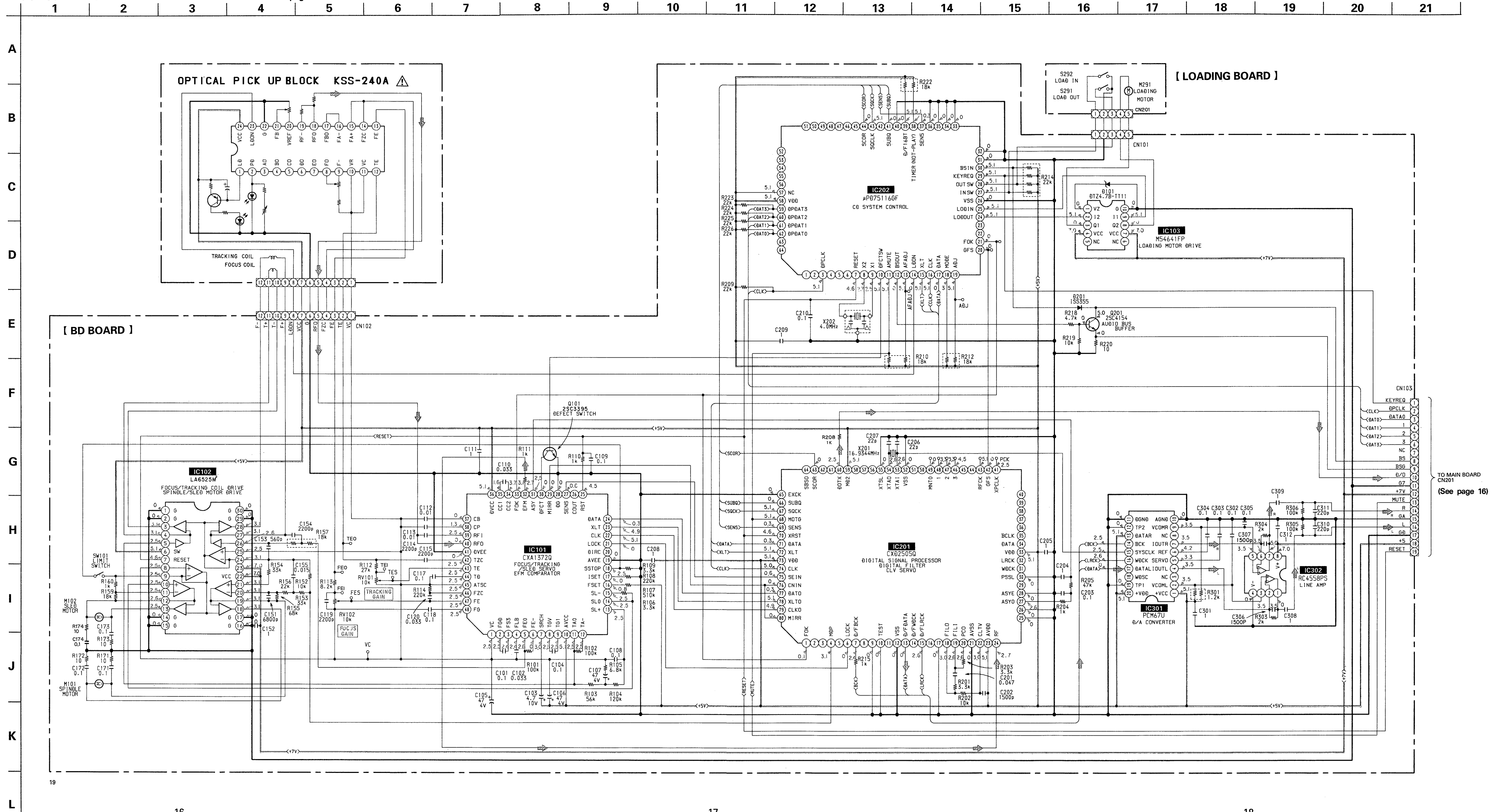
- All capacitors are in μF unless otherwise noted. pF: μF 50VW or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, 1/4W or less unless otherwise noted.
- Δ : internal component.

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
--	---

— : B-Line.
 - - - : B-Line.
 □ : adjustment for repair.
 Voltages are DC between measurement points and ground.
 no mark : PLAY
 Voltages are taken with a VOM (input impedance 10M Ω).
 Voltage variations may be noted due to normal production tolerances.
 Signal path
 > : CD

3-4. SCHEMATIC DIAGRAM – MAIN SECTION –





• IC401 Display controller (μPD75206GF-716-3BE)

In charge of displaying the FL tube and keying in, it exchanges data with the IC201 (CD system controller) in 4-bit parallel mode.

Pin No.	Pin Name	I/O	Description
1	RESET	I	System reset input. "L": Reset
2 - 11	G1-10	O	Digital output to the FL tube
12 - 15		O	Not in use with the model (open)
16, 17	l, k	O	FL tube segment output
18	VLOAD	—	Power supply for the FL tube controller (builtin) (-32V)
19	VPRE	—	Power supply for the FL tube predriver (-3.5V)
20 - 25	j ~ e	O	FL tube segment output
26	VDD	—	Power terminal (+5V)
27, 28	d, c	O	FL tube segment output
29, 30	b, a	O	FL tube segment, key scan output
31, 32		I	Not in use with the model (GND)
33	TEST	I	Test mode input. "L": Test mode
34	SELECT	I	Not in use with the model (pull up)
35	BSIN	I	Not in use with the model (pull up)
36	DPCLK	I	Display data transfer clock input from IC201 (CD system controller)
37, 38		I	Not in use with the model (pull up)
39		O	Not in use with the model (pull up)
40, 41		O	Not in use with the model (open)
42	KEY REQ	O	Key data request output to IC201 (CD system controller)
43 - 46	DPDATA0-3	I/O	Key data output and display data input with IC201 (CD system controller)
47 - 50	KEY0-3	I	Key data input
51, 52		I	Not in use with the model (pull up)
53, 54		I	Not in use with the model (GND)
55		O	Not in use with the model (open)
56	X1	I	System clock input (4.19 MHz)
57	X2	I	System clock input
58	Vss	—	Power supply terminal (GND)
59		I	Not in use with the model (GND)
60 - 64		O	Not in use with the model (open)

SECTION 3
EXPLODED VIEWS

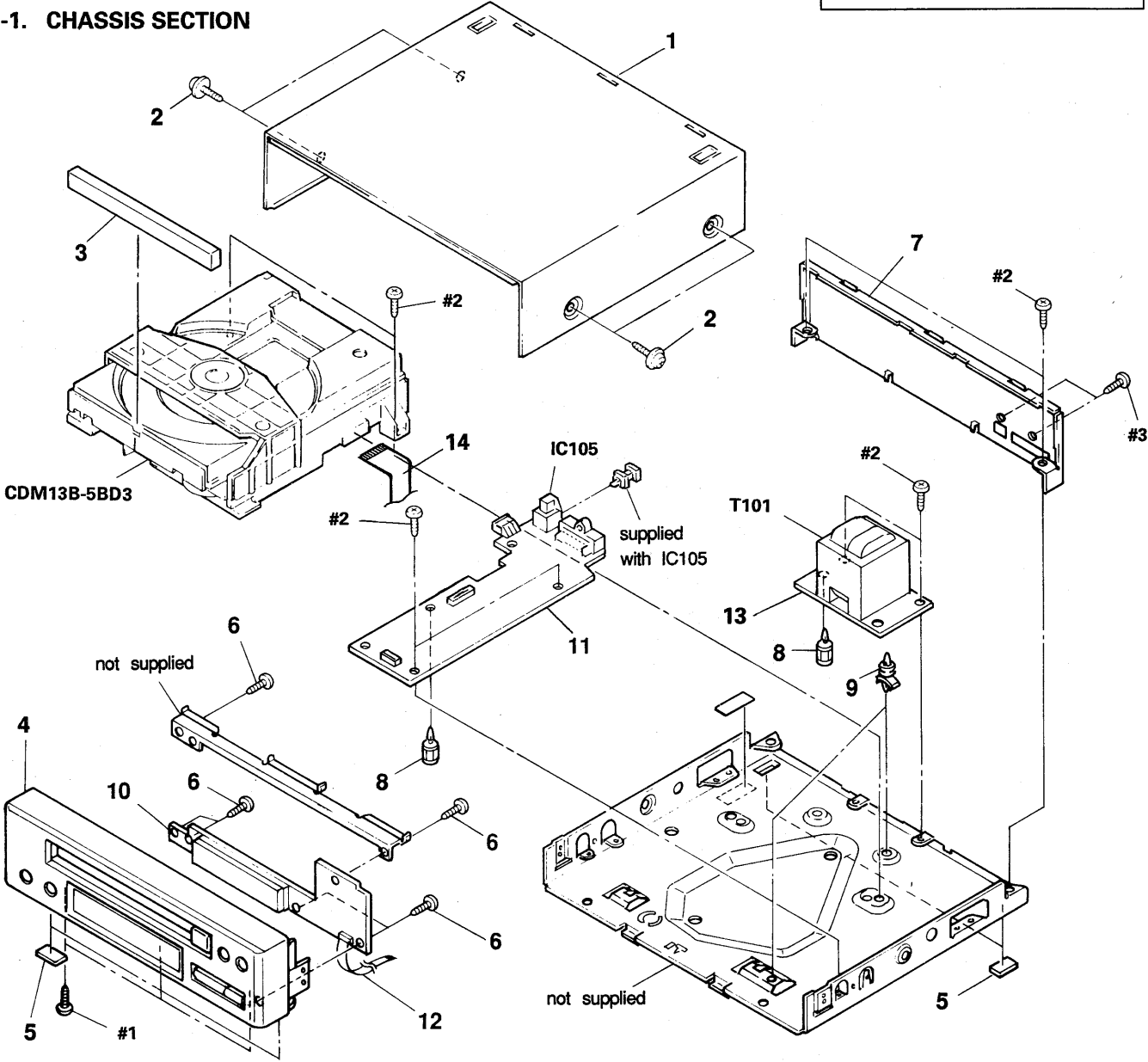
NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Color Indication of Appearance Parts
Example:
KNOB,BALANCE(WHITE)...(RED)
 ↑ ↑
 Parts color Cabinet's color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware(# mark) list is given in the last of this parts list.

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

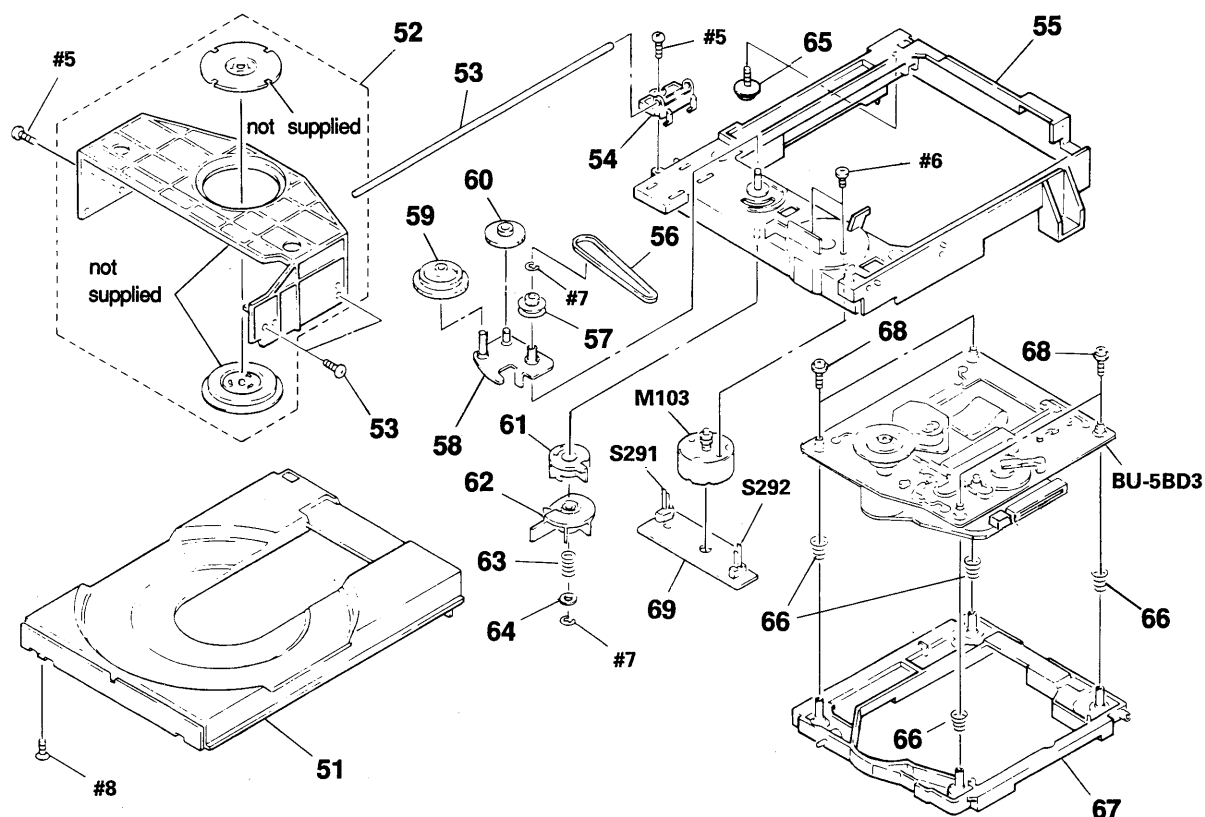
Les composants identifiés par une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

3-1. CHASSIS SECTION



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
1	* 4-944-423-01	CASE (K206522)		8	* 3-669-610-00	SPACER	
2	3-363-099-01	SCREW (CASE +3X8 TP2)		9	* 4-924-098-11	HOLDER, PC BOARD	
3	4-944-417-01	PANEL, LOADING		10	* A-4617-966-A	DISPLAY BOARD, COMPLETE	
4	X-4941-522-1	PANEL ASSY, FRONT		11	* A-4617-963-A	MAIN BOARD, COMPLETE	
5	4-930-336-01	FOOT (FELT)		12	1-575-001-11	WIRE, FLAT TYPE (12 CORE)	
6	4-928-635-01	SCREW, +BV (2.6X8) TAPPING		13	* 1-640-543-11	TRANSFORMER BOARD	
7	* 4-943-175-61	PAENL, BACK		14	1-535-845-11	JUMPER, FILM (WITH TERMINAL)	

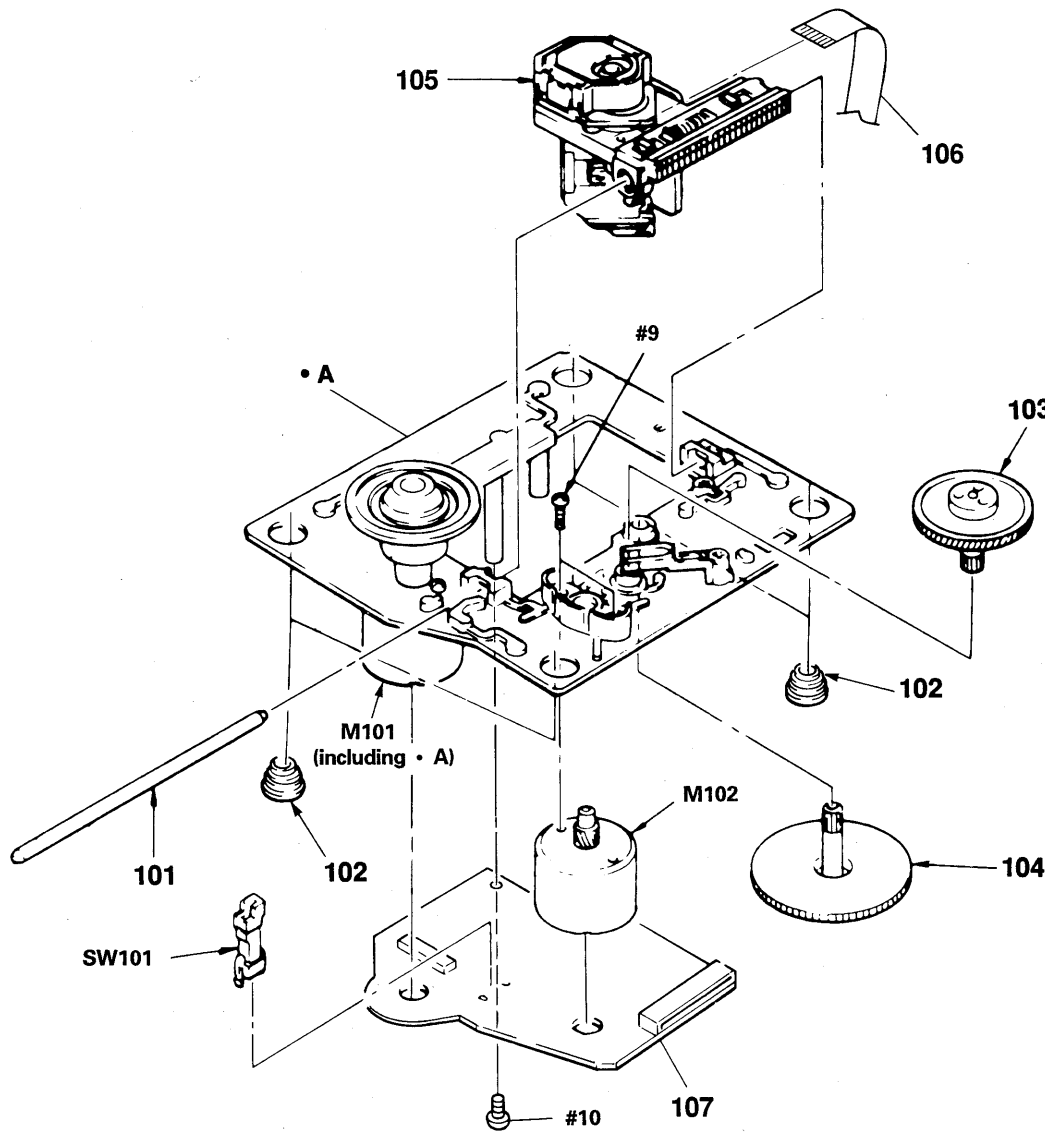
3-2. CD MECHANISM SECTION (CDM13B-5BD3)



Ref. No.	Part No.	Description	Remarks
51	4-944-012-01	TABLE, DISC	
52	A-4604-752-A	HOLDER (MG) ASSY	
53	4-929-764-01	SHAFT (TABLE GUIDE)	
54	4-944-006-01	BEARING	
55	X-4941-462-1	CHASSIS (MD) ASSY	
56	4-927-649-01	BELT	
57	4-929-724-01	PULLEY (B)	
58	X-4929-703-1	ARM ASSY, SWING	
59	4-927-620-11	GEAR (P)	
60	4-927-628-01	GEAR (C)	

Ref. No.	Part No.	Description	Remarks
61	4-929-727-01	CAM (A)	
62	4-929-729-01	CAM (B)	
63	3-659-338-00	SPRING, COMPRESSION	
64	4-927-654-01	WASHER (LIMITER)	
65	* 4-917-583-21	BRACKET, YOKE	
66	4-917-541-01	SPRING (B)	
67	4-929-747-01	HOLDER (BU)	
68	4-933-134-01	SCREW (+PTPH M2. 6X6)	
69	* 1-634-461-11	LOADING BOARD	
M291	A-4608-362-A	MOTOR (L) ASSY (LOADING)	

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



Ref. No.	Part No.	Description	Remarks
101	4-917-565-01	SHAFT, SLED	
102	4-933-126-01	INSULATOR (A)	
103	4-917-567-01	GEAR (M)	
104	4-917-564-01	GEAR (P), FLATNESS	
105	 8-848-144-11	DEVICE, OPTICAL KSS-240A	
106	1-575-001-11	WIRE, FLAT TYPE (12 CORE)	
107	* A-4617-371-A	BD BOARD, COMPLETE	
M101	X-4917-523-3	ASSY, MOTOR (SPINDLE)	
M102	X-4917-504-1	ASSY, MOTOR (SLED)	
S101	1-572-085-11	SWITCH, LEAF (LIMIT IN)	

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

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

SECTION 4

ELECTRICAL PARTS LIST

BD

NOTE:

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

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

When indicating parts by reference number, please include the board name.

- 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.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms
METAL : Metal-film resistor
METAL OXIDE : Metal Oxide-film resistor
F : nonflammable

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
In each case, u : μ , for example :
uA...: μ A..., uPA...: μ PA...,
uPB...: μ PB..., uPC...: μ PC...,
uPD...: μ PD...
- CAPACITORS
uF : μ F
- COILS
uH : μ H

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
* A-4617-371-A BD BOARD, COMPLETE *****				IC102	8-759-822-36	IC LA6532M	
< CAPACITOR >				< CHIP JUMPER >			
C101	1-163-038-00	CERAMIC CHIP 0.1uF	25V	J101	1-216-295-00	METAL CHIP 0 5% 1/10W	
C102	1-163-989-11	CERAMIC CHIP 0.033uF	10% 25V	J102	1-216-295-00	METAL CHIP 0 5% 1/10W	
C103	1-126-163-11	ELECT 4.7uF	20% 50V	< TRANSISTOR >			
C104	1-163-038-00	CERAMIC CHIP 0.1uF	25V	Q101	8-729-901-01	TRANSISTOR DTC144EK	
C105	1-126-154-11	ELECT 47uF	20% 6.3V	< RESISTOR >			
C106	1-126-154-11	ELECT 47uF	20% 6.3V	R101	1-216-097-00	METAL CHIP 100K 5% 1/10W	
C107	1-126-154-11	ELECT 47uF	20% 6.3V	R102	1-216-095-00	METAL CHIP 82K 5% 1/10W	
C108	1-163-038-00	CERAMIC CHIP 0.1uF	25V	R103	1-216-091-00	METAL CHIP 56K 5% 1/10W	
C109	1-163-038-00	CERAMIC CHIP 0.1uF	25V	R104	1-216-099-00	METAL CHIP 120K 5% 1/10W	
C110	1-163-989-11	CERAMIC CHIP 0.033uF	10% 25V	R105	1-216-069-00	METAL CHIP 6.8K 5% 1/10W	
C111	1-131-367-00	TANTALUM 22uF	10% 20V	R106	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
C112	1-164-232-11	CERAMIC CHIP 0.01uF	50V	R107	1-216-114-00	METAL GLAZE 510K 5% 1/10W	
C113	1-164-232-11	CERAMIC CHIP 0.01uF	50V	R108	1-216-105-00	METAL CHIP 220K 5% 1/10W	
C114	1-164-161-11	CERAMIC CHIP 0.0022uF	10% 100V	R109	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
C115	1-164-161-11	CERAMIC CHIP 0.0022uF	10% 100V	R110	1-216-049-00	METAL CHIP 1K 5% 1/10W	
C117	1-163-038-00	CERAMIC CHIP 0.1uF	25V	R111	1-216-049-00	METAL CHIP 1K 5% 1/10W	
C118	1-163-038-00	CERAMIC CHIP 0.1uF	25V	R112	1-216-083-00	METAL CHIP 27K 5% 1/10W	
C119	1-164-161-11	CERAMIC CHIP 0.0022uF	10% 100V	R113	1-216-071-00	METAL CHIP 8.2K 5% 1/10W	
C120	1-163-989-11	CERAMIC CHIP 0.033uF	10% 25V	R114	1-216-105-00	METAL CHIP 220K 5% 1/10W	
C151	1-163-019-00	CERAMIC CHIP 0.0068uF	10% 50V	R152	1-216-073-00	METAL CHIP 10K 5% 1/10W	
C152	1-163-038-00	CERAMIC CHIP 0.1uF	25V	R153	1-216-085-00	METAL CHIP 33K 5% 1/10W	
C153	1-163-006-11	CERAMIC CHIP 560PF	10% 50V	R154	1-216-085-00	METAL CHIP 33K 5% 1/10W	
C154	1-164-161-11	CERAMIC CHIP 0.0022uF	10% 100V	R155	1-216-093-00	METAL CHIP 68K 5% 1/10W	
C155	1-163-023-00	CERAMIC CHIP 0.015uF	5% 50V	R156	1-216-081-00	METAL CHIP 22K 5% 1/10W	
C171	1-163-038-00	CERAMIC CHIP 0.1uF	25V	R157	1-216-079-00	METAL CHIP 18K 5% 1/10W	
C172	1-163-038-00	CERAMIC CHIP 0.1uF	25V	R158	1-216-079-00	METAL CHIP 18K 5% 1/10W	
C173	1-163-038-00	CERAMIC CHIP 0.1uF	25V	R159	1-216-079-00	METAL CHIP 18K 5% 1/10W	
C174	1-163-038-00	CERAMIC CHIP 0.1uF	25V	R160	1-216-049-00	METAL CHIP 1K 5% 1/10W	
< CONNECTOR >				R171	1-216-001-00	METAL CHIP 10 5% 1/10W	
CN101	1-568-796-11	SOCKET, CONNECTOR 22P		R172	1-216-001-00	METAL CHIP 10 5% 1/10W	
CN102	1-568-795-11	SOCKET, CONNECTOR 12P		R173	1-216-001-00	METAL CHIP 10 5% 1/10W	
< IC >				R174	1-216-001-00	METAL CHIP 10 5% 1/10W	
IC101	8-752-050-82	IC CXA13720					

BD	MAIN	DISPLAY	TRANSFORMER
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Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
< VARIABLE RESISTOR >				C311	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
RV101	1-238-016-11	RES, ADJ, CARBON 10K		C312	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
RV102	1-238-016-11	RES, ADJ, CARBON 10K		C313	1-163-119-00	CERAMIC CHIP 120PF	5% 50V
< SWITCH >				C314	1-163-119-00	CERAMIC CHIP 120PF	5% 50V
S101	1-572-085-11	SWITCH, LEAF (LIMIT IN)		C315	1-136-017-00	CERAMIC CHIP 0.0047uF	50V
*****				C316	1-136-017-00	CERAMIC CHIP 0.0047uF	50V
* A-4617-963-A MAIN BOARD, COMPLETE				C317	1-163-143-00	CERAMIC CHIP 0.0012uF	5% 50V
*****				C318	1-163-143-00	CERAMIC CHIP 0.0012uF	5% 50V
* A-4617-966-A DISPLAY BOARD, COMPLETE				C319	1-164-346-11	CERAMIC CHIP 1uF	16V
*****				C320	1-164-346-11	CERAMIC CHIP 1uF	16V
* 1-640-543-11 TRANSFORMER BOARD				C321	1-164-346-11	CERAMIC CHIP 1uF	16V
*****				C322	1-164-346-11	CERAMIC CHIP 1uF	16V
* 1-560-242-21 BUS BAR 4P				C323	1-163-141-00	CERAMIC CHIP 0.001uF	5% 50V
* 4-880-403-11 HEAT SINK				C324	1-163-141-00	CERAMIC CHIP 0.001uF	5% 50V
* 4-932-810-11 CUSHION (FL)				C325	1-124-443-00	ELECT 100uF	20% 10V
< CAPACITOR >				C326	1-124-443-00	ELECT 100uF	20% 10V
C101	1-126-939-11	ELECT 10000uF	20% 16V	C341	1-164-346-11	CERAMIC CHIP 1uF	16V
C102	1-124-443-00	ELECT 10uF	20% 50V	C401	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C103	1-124-477-11	ELECT 47uF	20% 25V	C402	1-163-035-00	CERAMIC CHIP 0.047uF	50V
C104	1-135-155-21	TANTALUM CHIP 4.7uF	10% 10V	C403	1-164-346-11	CERAMIC CHIP 1uF	16V
C105	1-164-346-11	CERAMIC CHIP 1uF	16V	C404	1-163-009-11	CERAMIC CHIP 0.001uF	10% 50V
C106	1-164-695-11	CERAMIC CHIP 0.0022uF	5% 50V	C501	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C107	1-124-907-11	ELECT 100uF	20% 10V	C502	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C108	1-124-443-00	ELECT 100uF	20% 10V	< CONNECTOR >			
C109	1-163-038-00	CERAMIC CHIP 0.1uF	25V	CN101	* 1-569-624-11	SOCKET, CONNECTOR 17P	
C111	1-126-063-11	ELECT 100uF	20% 63V	CN102	1-568-662-11	CONNECTOR, BOARD TO BOARD 6P	
C112	1-124-907-11	ELECT 10uF	20% 50V	CN201	1-568-802-11	SOCKET, CONNECTOR 19P	
C113	1-163-141-00	CERAMIC CHIP 0.001uF	5% 50V	CN202	* 1-564-339-00	PIN, CONNECTOR 5P	
C115	1-164-232-11	CERAMIC CHIP 0.01uF	50V	CN203	* 1-564-340-00	PIN, CONNECTOR 6P	
C116	1-164-232-11	CERAMIC CHIP 0.01uF	50V	CN301	* 1-573-099-11	HOUSING, CONNECTOR 12P	
C117	1-163-141-00	CERAMIC CHIP 0.001uF	5% 50V	CN401	* 1-573-098-11	HOUSING, CONNECTOR 12P	
C120	1-163-038-00	CERAMIC CHIP 0.1uF	25V	CN901	1-568-668-11	CONNECTOR, BOARD TO BOARD 6P	
C121	1-163-038-00	CERAMIC CHIP 0.1uF	25V	< DIODE >			
C130	1-124-907-11	ELECT 10uF	20% 50V	D101	8-719-210-39	DIODE EC100S-04	
C201	1-163-038-00	CERAMIC CHIP 0.1uF	25V	D102	8-719-210-39	DIODE EC100S-04	
C202	1-164-346-11	CERAMIC CHIP 1uF	16V	D103	8-719-210-33	DIODE EC10DS2	
C203	1-163-035-00	CERAMIC CHIP 0.047uF	50V	D104	8-719-210-33	DIODE EC10DS2	
C204	1-163-145-00	CERAMIC CHIP 0.0015uF	5% 50V	D106	8-719-106-17	DIODE RD6. 8M-B2	
C205	1-164-346-11	CERAMIC CHIP 1uF	16V	D113	8-719-210-33	DIODE EC10DS2	
C206	1-163-038-00	CERAMIC CHIP 0.1uF	25V	D131	8-719-800-76	DIODE 1SS226	
C207	1-164-346-11	CERAMIC CHIP 1uF	16V	D132	8-719-800-76	DIODE 1SS226	
C208	1-164-346-11	CERAMIC CHIP 1uF	16V	D201	8-719-400-18	DIODE MA152WK	
C209	1-164-346-11	CERAMIC CHIP 1uF	16V	D206	8-719-105-58	DIODE RD3. 9M-B2	
C304	1-164-346-11	CERAMIC CHIP 1uF	16V	D302	8-719-104-34	DIODE 1S2836	
C306	1-163-227-11	CERAMIC CHIP 10PF	5% 50V	D401	8-719-106-36	DIODE RD8. 2M-B3	
C307	1-163-227-11	CERAMIC CHIP 10PF	5% 50V	D402	8-719-104-34	DIODE 1S2836	
C308	1-163-038-00	CERAMIC CHIP 0.1uF	25V	D403	8-719-400-18	DIODE MA152WK	
C310	1-164-346-11	CERAMIC CHIP 1uF	16V	< INDICATOR >			
				FL401	1-519-652-11	INDICATOR TUBE, FLUORESCENT	

When indicating parts by reference number, please include the board name.

MAIN

DISPLAY

TRANSFORMER

Ref. No.	Part No.	Description	Remarks
< IC >			
IC101	8-759-604-86 IC	M5F7807L	
IC102	8-759-633-42 IC	M5293L	
IC103	8-759-636-24 IC	M5290FP	
IC105	8-749-921-12 IC	GP1F32T	
IC201	8-759-153-16 IC	uPD75116GF-760-3BE	
IC202	8-752-337-26 IC	CXD2500AQ	
IC203	8-759-636-20 IC	M54641FP	
IC204	8-752-337-10 IC	CXD2554M	
IC301	8-759-506-63 IC	PCM67U	
IC302	8-759-243-19 IC	TC7SU04F	
IC303	8-759-981-95 IC	RC4558PS	
IC304	8-759-981-95 IC	RC4558PS	
IC401	8-759-154-14 IC	uPD75206GF-716-3BE	
< CHIP JUMPER >			
JW202	1-216-295-00 METAL CHIP	0 5% 1/10W	
JW401	1-216-295-00 METAL CHIP	0 5% 1/10W	
< TRANSISTOR >			
Q101	8-729-804-41 TRANSISTOR	2SB1122-S	
Q102	8-729-620-06 TRANSISTOR	2SC3052-EF	
Q103	8-729-805-69 TRANSISTOR	2SA1341	
Q201	8-729-620-06 TRANSISTOR	2SC3052-EF	
Q301	8-729-107-46 TRANSISTOR	2SC3624A-L15	
Q302	8-729-107-46 TRANSISTOR	2SC3624A-L15	
Q303	8-729-107-46 TRANSISTOR	2SC3624A-L15	
Q304	8-729-107-46 TRANSISTOR	2SC3624A-L15	
Q305	8-729-216-22 TRANSISTOR	2SA1162-G	
Q306	8-729-805-69 TRANSISTOR	2SA1341	
< RESISTOR >			
R101	1-216-065-00 METAL CHIP	4.7K 5% 1/10W	
R102	1-216-043-00 METAL CHIP	560 5% 1/10W	
R103	1-216-039-00 METAL CHIP	390 5% 1/10W	
R104	1-216-073-00 METAL CHIP	10K 5% 1/10W	
R105	1-216-073-00 METAL CHIP	10K 5% 1/10W	
R106	1-216-097-00 METAL CHIP	100K 5% 1/10W	
R107	1-216-061-00 METAL CHIP	3.3K 5% 1/10W	
R108	1-216-049-00 METAL CHIP	1K 5% 1/10W	
R109	1-216-089-00 METAL CHIP	47K 5% 1/10W	
R201	1-216-073-00 METAL CHIP	10K 5% 1/10W	
R202	1-216-073-00 METAL CHIP	10K 5% 1/10W	
R203	1-216-065-00 METAL CHIP	4.7K 5% 1/10W	
R204	1-216-073-00 METAL CHIP	10K 5% 1/10W	
R205	1-216-001-00 METAL CHIP	10 5% 1/10W	
R206	1-216-073-00 METAL CHIP	10K 5% 1/10W	
R207	1-216-073-00 METAL CHIP	10K 5% 1/10W	
R208	1-216-073-00 METAL CHIP	10K 5% 1/10W	
R209	1-216-073-00 METAL CHIP	10K 5% 1/10W	
R210	1-216-073-00 METAL CHIP	10K 5% 1/10W	
R211	1-216-073-00 METAL CHIP	10K 5% 1/10W	

Ref. No.	Part No.	Description	Remarks
R213	1-216-073-00 METAL CHIP	10K 5% 1/10W	
R214	1-216-073-00 METAL CHIP	10K 5% 1/10W	
R215	1-216-073-00 METAL CHIP	10K 5% 1/10W	
R216	1-216-073-00 METAL CHIP	10K 5% 1/10W	
R217	1-216-061-00 METAL CHIP	3.3K 5% 1/10W	
R218	1-216-073-00 METAL CHIP	10K 5% 1/10W	
R219	1-216-061-00 METAL CHIP	3.3K 5% 1/10W	
R220	1-216-049-00 METAL CHIP	1K 5% 1/10W	
R221	1-216-089-00 METAL CHIP	47K 5% 1/10W	
R222	1-216-033-00 METAL CHIP	220 5% 1/10W	
R223	1-216-049-00 METAL CHIP	1K 5% 1/10W	
R224	1-216-049-00 METAL CHIP	1K 5% 1/10W	
R225	1-216-049-00 METAL CHIP	1K 5% 1/10W	
R226	1-216-073-00 METAL CHIP	10K 5% 1/10W	
R227	1-216-073-00 METAL CHIP	10K 5% 1/10W	
R228	1-216-073-00 METAL CHIP	10K 5% 1/10W	
R307	1-216-047-00 METAL CHIP	820 5% 1/10W	
R308	1-216-047-00 METAL CHIP	820 5% 1/10W	
R309	1-216-047-00 METAL CHIP	820 5% 1/10W	
R310	1-216-047-00 METAL CHIP	820 5% 1/10W	
R311	1-216-037-00 METAL CHIP	330 5% 1/10W	
R312	1-216-037-00 METAL CHIP	330 5% 1/10W	
R313	1-216-047-00 METAL CHIP	820 5% 1/10W	
R314	1-216-047-00 METAL CHIP	820 5% 1/10W	
R315	1-216-065-00 METAL CHIP	4.7K 5% 1/10W	
R316	1-216-065-00 METAL CHIP	4.7K 5% 1/10W	
R317	1-216-065-00 METAL CHIP	4.7K 5% 1/10W	
R318	1-216-065-00 METAL CHIP	4.7K 5% 1/10W	
R319	1-216-053-00 METAL CHIP	1.5K 5% 1/10W	
R320	1-216-053-00 METAL CHIP	1.5K 5% 1/10W	
R321	1-216-053-00 METAL CHIP	1.5K 5% 1/10W	
R322	1-216-053-00 METAL CHIP	1.5K 5% 1/10W	
R323	1-216-105-00 METAL CHIP	220K 5% 1/10W	
R324	1-216-105-00 METAL CHIP	220K 5% 1/10W	
R325	1-216-033-00 METAL CHIP	220 5% 1/10W	
R326	1-216-033-00 METAL CHIP	220 5% 1/10W	
R327	1-216-033-00 METAL CHIP	220 5% 1/10W	
R328	1-216-033-00 METAL CHIP	220 5% 1/10W	
R329	1-216-033-00 METAL CHIP	220 5% 1/10W	
R330	1-216-033-00 METAL CHIP	220 5% 1/10W	
R331	1-216-065-00 METAL CHIP	4.7K 5% 1/10W	
R332	1-216-065-00 METAL CHIP	4.7K 5% 1/10W	
R333	1-216-065-00 METAL CHIP	4.7K 5% 1/10W	
R334	1-216-065-00 METAL CHIP	4.7K 5% 1/10W	
R401	1-216-089-00 METAL CHIP	47K 5% 1/10W	
R402	1-216-089-00 METAL CHIP	47K 5% 1/10W	
R403	1-216-089-00 METAL CHIP	47K 5% 1/10W	
R404	1-216-089-00 METAL CHIP	47K 5% 1/10W	
R405	1-216-089-00 METAL CHIP	47K 5% 1/10W	
R406	1-216-089-00 METAL CHIP	47K 5% 1/10W	
R407	1-216-089-00 METAL CHIP	47K 5% 1/10W	
R408	1-216-093-00 METAL CHIP	68K 5% 1/10W	

When indicating parts by reference number, please include the board name.

MAIN

DISPLAY

TRANSFORMER

LOADING

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>				<u>Remarks</u>
R409	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R410	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R411	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R412	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R413	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R414	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R501	1-216-041-00	METAL CHIP	470	5%	1/10W	
R502	1-216-041-00	METAL CHIP	470	5%	1/10W	
R503	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R504	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R505	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R506	1-216-049-00	METAL CHIP	1K	5%	1/10W	

< SWITCH >

S401	1-572-184-11	SWITCH, KEYBOARD (	
S402	1-572-184-11	SWITCH, KEYBOARD (	
S403	1-572-184-11	SWITCH, KEYBOARD (	
S404	1-572-184-11	SWITCH, KEYBOARD (	
S405	1-572-184-11	SWITCH, KEYBOARD (	OPEN/CLOSE)

S406 1-572-184-11 SWITCH, KEYBOARD (EDIT)
S407 1-572-184-11 SWITCH, KEYBOARD (CHECK)

〈 TRANSFORMER 〉

T101  1-450-704-11 TRANSFORMER, POWER (Canadian)
 1-450-341-11 TRANSFORMER, POWER (Except Canadian)

〈 VIBRATOR 〉

X201	1-577-358-21	VIBRATOR, CERAMIC (4MHz)
X301	1-567-908-11	VIBRATOR, CRYSTAL (16.9MHz)
X401	1-577-359-21	VIBRATOR, CERAMIC (4.19MHz)

* 1-634-461-11 LOADING BOARD

< CONNECTOR >

CN291 * 1-564-498-11 PIN. CONNECTOR 5P

< SWITCH >

S291 1-571-924-11 SWITCH, LEAF (LOAD OUT)
S292 1-571-924-11 SWITCH, LEAF (LOAD IN)

Ref. No.	Part No.	Description	Remarks
		MISCELLANEOUS	

12	1-575-001-11	WIRE, FLAT TYPE (12 CORE)	
14	1-535-845-11	JUMPER, FILM (WITH TERMINAL)	
105	△ 8-848-144-11	DEVICE, OPTICAL KSS-240A	
106	1-575-001-11	WIRE, FLAT TYPE (12 CORE)	
M101	X-4917-523-3	ASSY, MOTOR (SPINDLE)	
M102	X-4917-504-1	ASSY, MOTOR (SLED)	
M291	A-4608-362-A	MOTOR (L) ASSY (LOADING)	

ACCESSORIES & PACKING MATERIALS

4-920-941-01 SHEET (B), PROTECTION
* 4-945-079-01 CUSHION

HARDWARE LIST

# 1	7-682-547-09	SCREW +BVTT	3X6	(S)
# 2	7-682-547-04	SCREW +BVTT	3X6	(S)
# 3	7-685-647-79	SCREW +BVTP	3X10	TYPE2 N-S
# 4	7-682-548-04	SCREW +BVTT	3X8	(S)
# 5	7-685-646-79	SCREW +BVTP	3X8	TYPE2 N-S
# 6	7-621-775-10	SCREW +B	2. 6X4	
# 7	7-624-105-04	STOP RING	2. 3.	TYPE -E
# 8	7-685-234-19	SCREW +KTP	2. 6X8	TYPE2NON-SLIT
# 9	7-621-255-15	SCREW +P	2X3	
#10	7-685-134-19	SCREW +BTP	2. 6X8	TYPE2 N-S

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

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

When indicating parts by reference number, please include the board name.

CDP-H3600

SONY[®] SERVICE MANUAL

*US Model
Canadian Model
E Model
Australian Model*

SUPPLEMENT-1

File this supplement with the service manual.

Addition of Main Board

Any of the following 2 types of main boards is used in the equipment.

- Type A with an IC CXD2505Q to process CD signal
- Type C with an IC CXD2500AQ to process CD signal

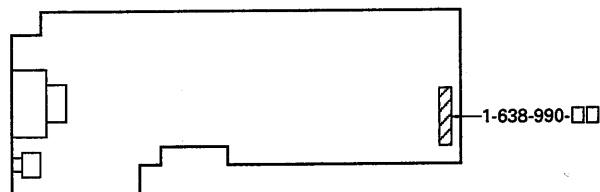
The description of the Service Manual is given relating only to Type A, so refer to the following Note to discriminate the types. The schematic diagram, printed wiring diagram, etc. of Type C are also herewith attached.

Note for discrimination:

You can discriminate either type according to the silk printing and mounted parts on the main board.

• A Type

(CD Mechanism Type:
CDM13B-5BD5
Base Unit Name:
BU-5BD5)



• C Type

(CD Mechanism Type:
CDM13B-5BD3
Base Unit Name:
BU-5BD3)

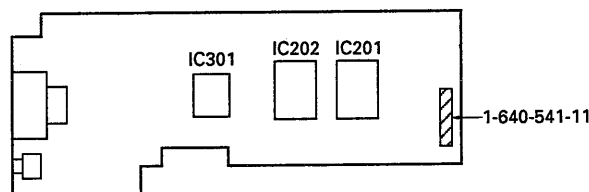


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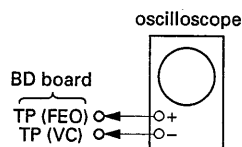
Section	Title	Page	Section	Title	Page
1.	ELECTRICAL BLOCK CHECKING	2	2-6.	Pin Functions of IC201 and IC401	18
2.	DIAGRAMS		3.	EXPLODED VIEWS	
2-1.	Block Diagram	5	3-1.	Chassis Section	20
2-2.	Semiconductor Lead Layouts	9	3-2.	CD Mechanism Section	21
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2-4.	Schematic Diagram	13	4.	ELECTRICAL PARTS LIST	23
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SECTION 1

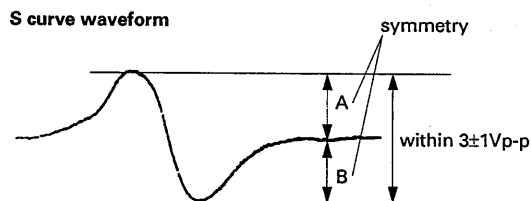
ELECTRICAL BLOCK CHECKING

Note :

1. CD Block basically constructed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use the oscilloscope with more than 10M Ω impedance.
4. Clean an object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

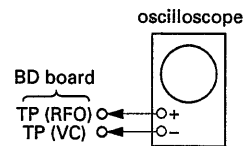
S Curve Check**Procedure :**

1. Connect oscilloscope to test point TP (FEO) on BD board.
2. Connect between test point TP (FES) and TP (VC) by lead wire.
3. Turned Power switch on and actuate the focus serch. (actuate the focus serch when disc table is moving in and out.)
4. Check the oscilloscope waveform (S curve) is symmetrical between A and B. And confirm peak to peak level within 3 $\pm$ 1Vp-p.



5. After check, remove the lead wire connected in step 2.

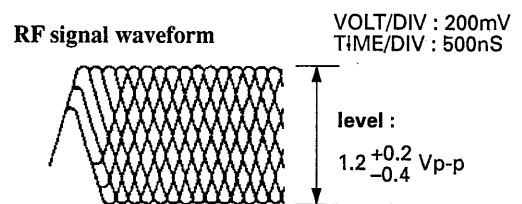
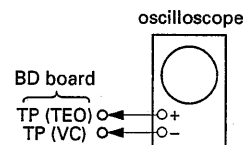
- Note :**
- Try to measure several times to make sure that the ratio of A : B or B : A is more than 10 : 7.
 - Take sweep time as long as possible and light up the brightness to obtain best waveform.

RF Level Check**Procedure :**

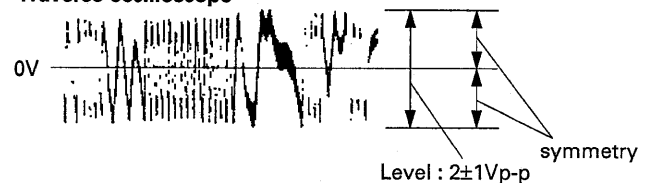
1. Connect oscilloscope to test point TP (RFO) on BD board.
2. Turn Power switch on.
3. Put disc (YEDS-18) in and playback.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

Note :

Clear RF signal waveform means that the shape “ $\diamond$ ” can be clearly distinguished at the center of the waveform.

**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 (TEO) on BD board.
3. Turn Power switch on.
4. Put disc (YEDS-18) in and playback.
5. Confirm that the oscilloscope waveform is symmetrical on the top and bottom in relation to 0V, and check this level.

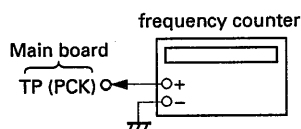
Traverse oscilloscope

6. Remove the lead wire connected in step 1.

RF PLL Free-run Frequency Check

Procedure :

1. Connect frequency counter to test point (PCK) with lead wire.



2. Turn Power switch on.
3. Confirm that reading on frequency counter is 4.3218MHz.

Focus/Tracking Gain

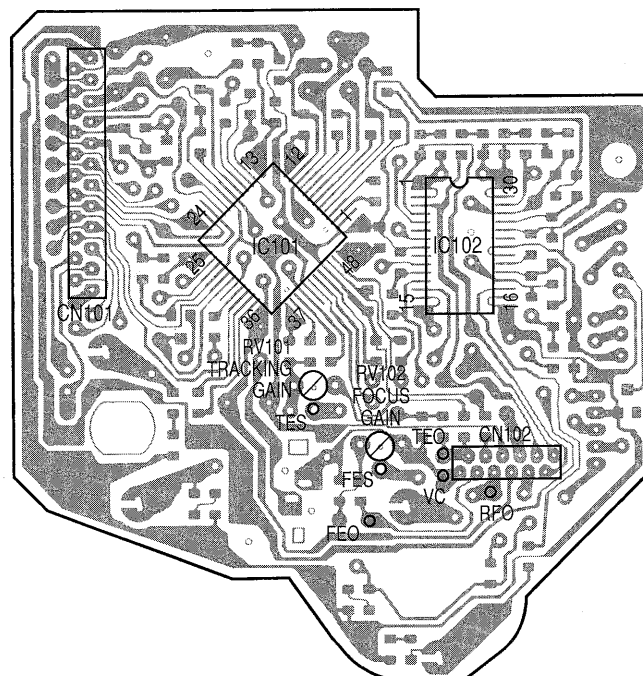
This gain has a margin, so even if it is slightly off.

There is no problem.

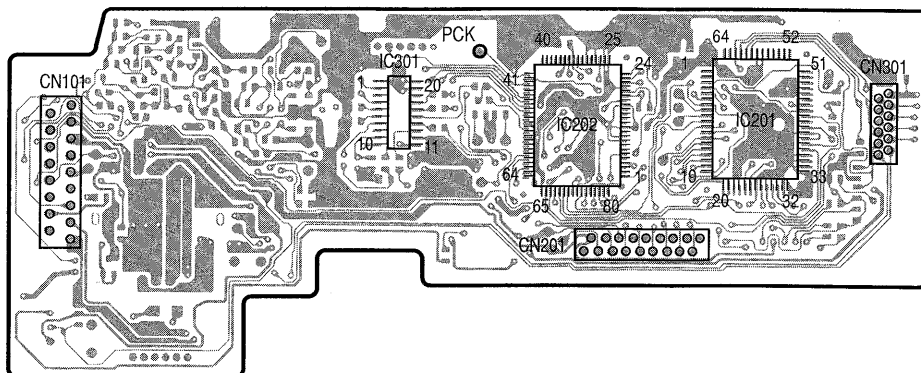
Therefore, do not perform, this adjustment.

Please note that it should be fixed to mechanical center position when you moved and do not know original position.

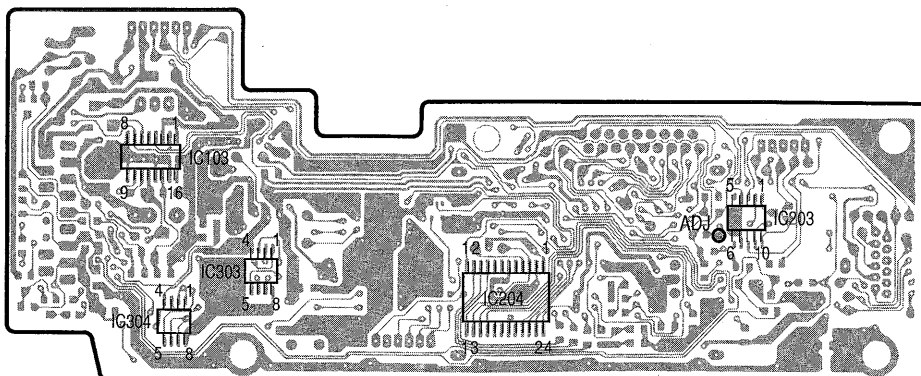
[BD BOARD] – Component Side –



[MAIN BOARD] – Component Side –



[MAIN BOARD] – Conductor Side –



[TEST MODES]

1. Test mode of display micon (IC401)

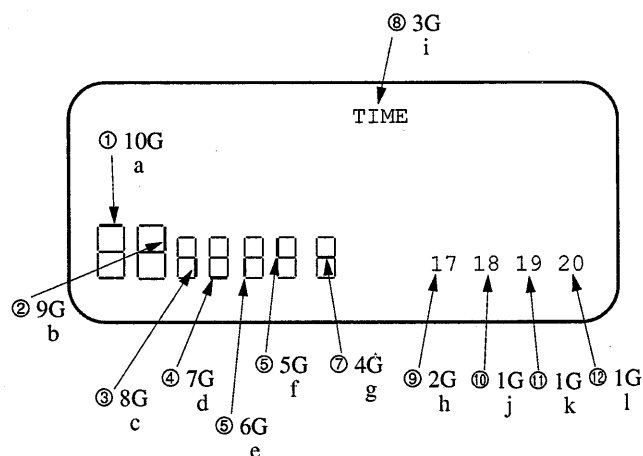
Connect Pin ③ of IC401 to ground and turn ON the POWER switch, thus you can test the following 3 tests.

(1) All FL tube ON

This mode is actuated immediately after turning ON the POWER switch.

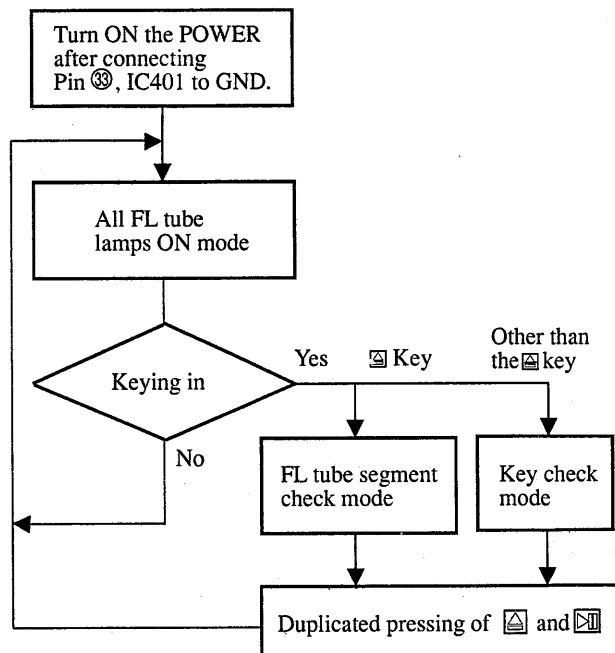
(2) FL tube segment check

This mode is actuated by pressing the  key in the state of (1). Every time the  key is pressed, the segments are indicated sequentially from the segment a. When the last l segment is displayed, keying in is no longer accepted while continuing the lighting-up state of the last segment. Conditions are normal provided all lamps light up in the following order.

**(3) KEY check**

This mode is effected by pressing the  key in the state of (1), while indicating "1." Every time a new key is pressed subsequently, the indicated number is incremented. Conditions are normal provided "7" is indicated when all types of keys are pressed. Even if a key is pressed again, it is not counted.

* To leave the mode (2) or (3), press the  and  keys in duplication, thereby the mode returning to all ON mode.

**2. Test Modes of CD Syscon (IC201)****(1) ADJUST mode**

When this mode is effected, the machine is operated normally except for the following.

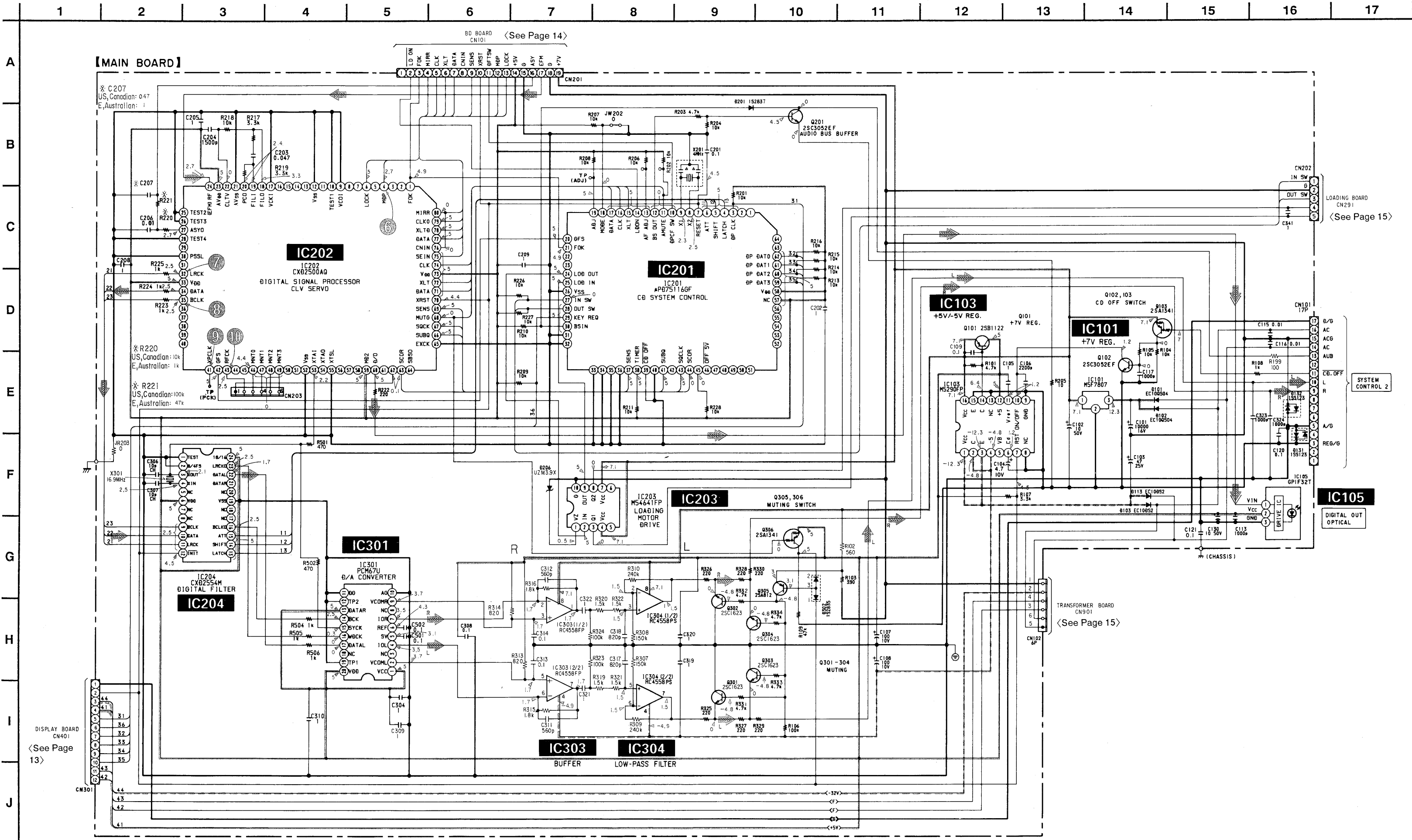
- When pin ⑩, IC201 (ADJ) is set to "L" after turning ON the POWER switch:
 1. GFS is no longer monitored during PLAY, PAUSE or SEARCH, while not stopping even with GFS remaining still at "L" (NG).
 2. No high-speed feeding is activated during SEARCH.
 3. Focus gain is reset to normal gain during PLAY (normally, the gain is lowered to reduce noise when FOCUS is locked).
- When Pin ⑨, IC201 (AFADJ) is set to "L" after turning ON the POWER switch:
 1. Regardless of Pin ⑩ (ADJ) of the CLV-S fixed function, the CLV mode during PLAY becomes CLV-S (rough servo) only while Pin e remains "L".

(2) AFADJUST mode

In this mode, it is possible to check the interface between the display micon (IC401) and CD syscon (IC201).

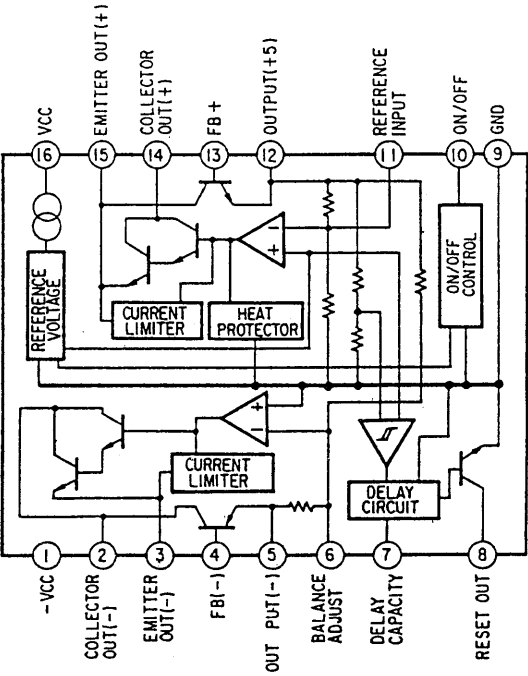
- Set Pin ⑨, IC201 (AFADJ) to "L" before turning ON the POWER switch.
 1. Every time the  key is pressed after turning On the POWER switch, indication on the FL tube is switched correspondingly. Conditions are normal provided the indication repeats the 4 patterns including all lamp ON.

1-3. SCHEMATIC DIAGRAM • See page 8 for IC Block Diagrams. < > : The pages above correspond to CDP-H3600 SUPPLEMENT-1.

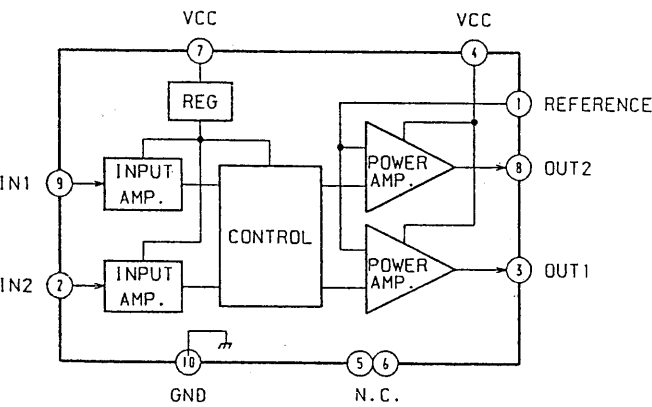


1-4. IC BLOCK DIAGRAMS

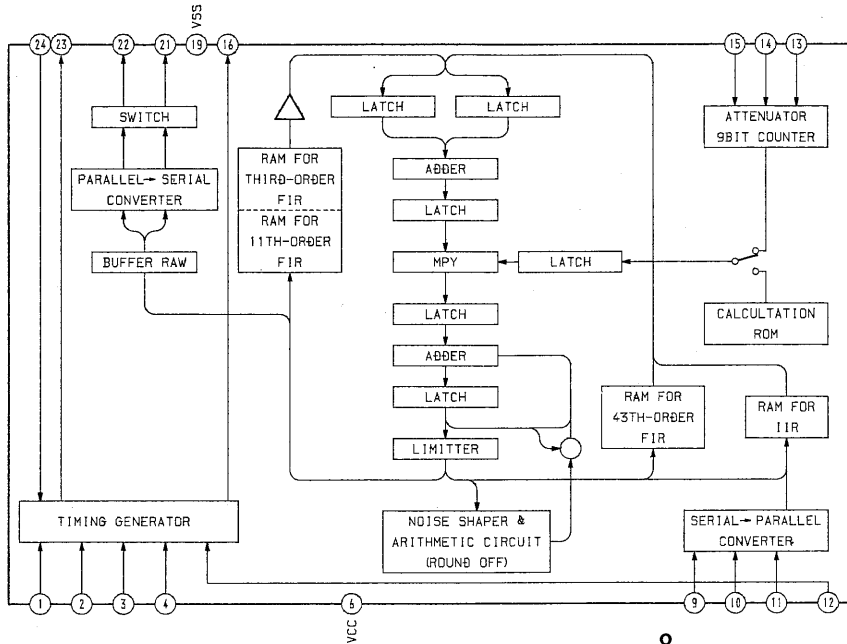
IC103 M5290FP



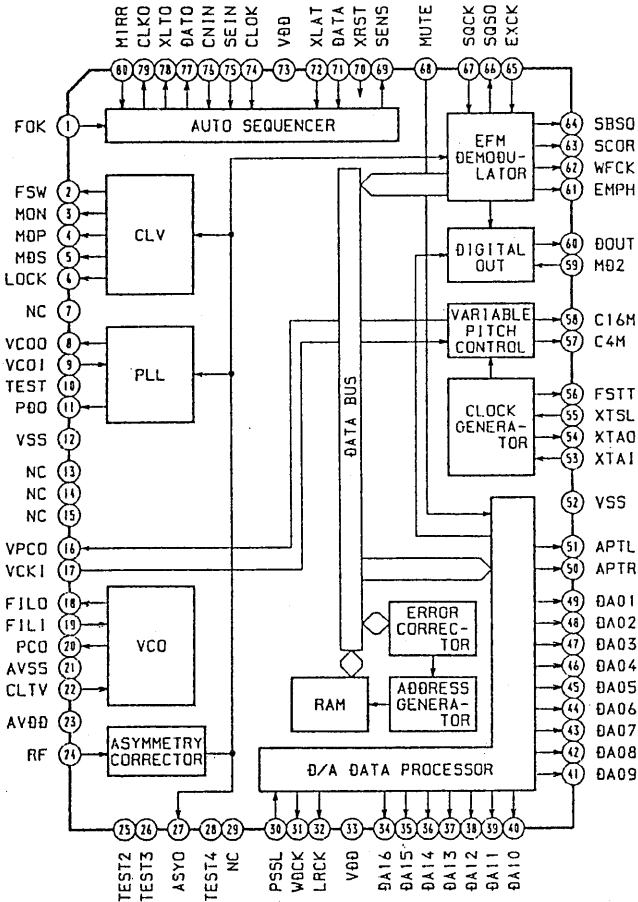
IC203 M54641FP



IC204 CXD2554M



IC202 CXD2500AQ



SECTION 2
ELECTRICAL PARTS LIST

MAIN

NOTE:

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

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

When indicating parts by reference number, please include the board name.

- 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.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms
METAL: Metal-film resistor
METAL OXIDE: Metal Oxide-film resistor
F : nonflammable
- Color Indication of Appearance Parts Example:
KNOB, BALANCE (WHITE) ... (RED)
Parts color Cabinet's color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
In each case, u: μ , for example:
uA...: μ A..., uPA...: μ PA...,
uPB...: μ PB..., uPC...: μ PC...,
uPD...: μ PD...
- CAPACITORS
uF: μ F
- COILS
uH: μ H

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
*	A-4617-963-A	MAIN BOARD, COMPLETE (E,Australian)		C311	1-163-006-11	CERAMIC CHIP 560PF	10% 50V
	*****			C312	1-163-006-11	CERAMIC CHIP 560PF	10% 50V
*	A-4649-037-A	MAIN BOARD, COMPLETE (US,Canadian)		C313	1-163-038-00	CERAMIC CHIP 0.1uF	25V
	*****			C314	1-163-038-00	CERAMIC CHIP 0.1uF	25V
*	1-560-242-21	BUS BAR 4P		C317	1-163-139-00	CERAMIC CHIP 820PF	5% 50V
*	4-880-403-11	HEAT SINK		C318	1-163-139-00	CERAMIC CHIP 820PF	5% 50V
	7-682-548-04	SCREW +BVTT 3X8 (S)		C319	1-164-346-11	CERAMIC CHIP 1uF	16V
				C320	1-164-346-11	CERAMIC CHIP 1uF	16V
		< CAPACITOR >		C321	1-164-346-11	CERAMIC CHIP 1uF	16V
C101	1-126-939-11	ELECT 10000uF 20%	16V	C322	1-164-346-11	CERAMIC CHIP 1uF	16V
C102	1-124-907-11	ELECT 10uF 20%	50V	C323	1-163-141-00	CERAMIC CHIP 0.001uF 5%	50V
C103	1-124-477-11	ELECT 47uF 20%	25V	C324	1-163-141-00	CERAMIC CHIP 0.001uF 5%	50V
C104	1-135-155-21	TANTALUM CHIP 4.7uF 10%	16V	C341	1-164-346-11	CERAMIC CHIP 1uF	16V
C105	1-164-346-11	CERAMIC CHIP 1uF	16V	C501	1-163-038-00	CERAMIC CHIP 0.1uF	25V
				C502	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C106	1-164-695-11	CERAMIC CHIP 0.0022uF 5%	50V			< CONNECTOR >	
C107	1-124-443-00	ELECT 100uF 20%	10V	* CN101	1-569-624-11	SOCKET, CONNECTOR 17P (SYSTEM CONTROL 2)	
C108	1-124-443-00	ELECT 100uF 20%	10V	CN102	1-568-662-11	CONNECTOR, BOARD TO BOARD 6P	
C109	1-163-038-00	CERAMIC CHIP 0.1uF	25V	CN201	1-568-802-11	SOCKET, CONNECTOR 19P	
C113	1-163-141-00	CERAMIC CHIP 0.001uF 5%	50V	* CN202	1-564-339-00	PIN, CONNECTOR 5P	
				* CN203	1-564-340-00	PIN, CONNECTOR 6P	
C115	1-163-031-11	CERAMIC CHIP 0.01uF	50V	* CN301	1-573-099-11	HOUSING, CONNECTOR 12P	
C116	1-163-031-11	CERAMIC CHIP 0.01uF	50V			< DIODE >	
C117	1-163-141-00	CERAMIC CHIP 0.001uF 5%	50V	D101	8-719-210-39	DIODE EC10QS-04	
C120	1-163-038-00	CERAMIC CHIP 0.1uF	25V	D102	8-719-210-39	DIODE EC10QS-04	
C121	1-163-038-00	CERAMIC CHIP 0.1uF	25V	D103	8-719-210-33	DIODE EC10DS2	
				D113	8-719-210-33	DIODE EC10DS2	
C130	1-124-907-11	ELECT 10uF 20%	50V	D131	8-719-800-76	DIODE 1SS226	
C201	1-163-038-00	CERAMIC CHIP 0.1uF	25V				
C202	1-164-346-11	CERAMIC CHIP 1uF	16V	D132	8-719-800-76	DIODE 1SS226	
C203	1-163-035-00	CERAMIC CHIP 0.047uF	50V	D201	8-719-400-18	DIODE MA152WK	
C204	1-163-145-00	CERAMIC CHIP 0.0015uF 5%	50V	D206	8-719-021-11	DIODE UZM3. 9X	
				D302	8-719-104-34	DIODE 1S2836	
C205	1-164-346-11	CERAMIC CHIP 1uF	16V			< IC >	
C206	1-163-031-11	CERAMIC CHIP 0.01uF	50V	IC101	8-759-605-00	IC M5F78M07L	
C207	1-164-005-11	CERAMIC CHIP 0.47uF	25V	IC102	8-759-633-42	IC M5293L	
		(US,Canadian)		IC103	8-759-636-24	IC M5290FP	
C207	1-164-346-11	CERAMIC CHIP 1uF	16V	IC105	8-749-921-12	IC GP1F32T (DIGITAL OUT OPTICAL)	
		(E,Australian)		IC201	8-759-059-86	IC UPD75116GF-F21-3BE	
C208	1-164-346-11	CERAMIC CHIP 1uF	16V				
C209	1-164-346-11	CERAMIC CHIP 1uF	16V				
C304	1-164-346-11	CERAMIC CHIP 1uF	16V				
C306	1-163-227-11	CERAMIC CHIP 10PF 0.5PF	50V				
C307	1-163-227-11	CERAMIC CHIP 10PF 0.5PF	50V				
C308	1-163-038-00	CERAMIC CHIP 0.1uF	25V				
C309	1-162-638-11	CERAMIC CHIP 1uF	16V				
C310	1-164-346-11	CERAMIC CHIP 1uF	16V				

MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
IC202	8-752-352-93	IC CXD2500BQ		R217	1-216-061-00	METAL CHIP 3.3K 5%	1/10W
IC203	8-759-636-20	IC M54641FP		R218	1-216-073-00	METAL CHIP 10K 5%	1/10W
IC204	8-752-337-10	IC CXD2554M		R219	1-216-061-00	METAL CHIP 3.3K 5%	1/10W
IC301	8-759-506-63	IC PCM67U		R220	1-216-049-00	METAL CHIP 1K 5%	1/10W
IC303	8-759-996-43	IC RC4558PS					(E, Australian)
IC304	8-759-996-43	IC RC4558PS		R220	1-216-073-00	METAL CHIP 10K 5%	1/10W
IC401	8-759-154-14	IC UPD75206GF-716-3BE					(US, Canadian)
< JUMPER RESISTOR >				R221	1-216-089-91	METAL GLAZE 47K 5%	1/10W
JW202	1-216-295-00	METAL CHIP 0 5%	1/10W				(E, Australian)
JR203	1-216-295-00	METAL CHIP 0 5%	1/10W	R221	1-216-097-00	METAL CHIP 100K 5%	1/10W
< TRANSISTOR >							(US, Canadian)
Q101	8-729-804-41	TRANSISTOR 2SB1122-S		R222	1-216-033-00	METAL CHIP 220 5%	1/10W
Q102	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R223	1-216-049-00	METAL CHIP 1K 5%	1/10W
Q103	8-729-901-06	TRANSISTOR DTA144EK		R224	1-216-049-00	METAL CHIP 1K 5%	1/10W
Q201	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q301	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R225	1-216-049-00	METAL CHIP 1K 5%	1/10W
Q302	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R226	1-216-073-00	METAL CHIP 10K 5%	1/10W
Q303	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R227	1-216-073-00	METAL CHIP 10K 5%	1/10W
Q304	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R228	1-216-073-00	METAL CHIP 10K 5%	1/10W
Q305	8-729-216-22	TRANSISTOR 2SA1162-G		R307	1-216-101-00	METAL CHIP 150K 5%	1/10W
Q306	8-729-901-06	TRANSISTOR DTA144EK					
< RESISTOR >				R308	1-216-101-00	METAL CHIP 150K 5%	1/10W
R101	1-216-065-00	METAL CHIP 4.7K 5%	1/10W	R309	1-216-106-00	METAL CHIP 240K 5%	1/10W
R102	1-216-043-00	METAL CHIP 560 5%	1/10W	R310	1-216-106-00	METAL CHIP 240K 5%	1/10W
R103	1-216-039-00	METAL CHIP 390 5%	1/10W	R313	1-216-047-00	METAL CHIP 820 5%	1/10W
R104	1-216-073-00	METAL CHIP 10K 5%	1/10W	R314	1-216-047-00	METAL CHIP 820 5%	1/10W
R105	1-216-073-00	METAL CHIP 10K 5%	1/10W				
R106	1-216-097-00	METAL CHIP 100K 5%	1/10W	R315	1-216-055-00	METAL CHIP 1.8K 5%	1/10W
R107	1-216-061-00	METAL CHIP 3.3K 5%	1/10W	R316	1-216-055-00	METAL CHIP 1.8K 5%	1/10W
R108	1-216-049-00	METAL CHIP 1K 5%	1/10W	R319	1-216-053-00	METAL CHIP 1.5K 5%	1/10W
R109	1-216-089-91	METAL GLAZE 47K 5%	1/10W	R320	1-216-053-00	METAL CHIP 1.5K 5%	1/10W
R199	1-216-025-00	METAL CHIP 100 5%	1/10W	R321	1-216-053-00	METAL CHIP 1.5K 5%	1/10W
R201	1-216-073-00	METAL CHIP 10K 5%	1/10W				
R202	1-216-073-00	METAL CHIP 10K 5%	1/10W	R322	1-216-053-00	METAL CHIP 1.5K 5%	1/10W
R203	1-216-065-00	METAL CHIP 4.7K 5%	1/10W	R323	1-216-097-00	METAL CHIP 100K 5%	1/10W
R204	1-216-073-00	METAL CHIP 10K 5%	1/10W	R324	1-216-097-00	METAL CHIP 100K 5%	1/10W
R205	1-216-001-00	METAL CHIP 10 5%	1/10W	R325	1-216-033-00	METAL CHIP 220 5%	1/10W
R206	1-216-073-00	METAL CHIP 10K 5%	1/10W	R326	1-216-033-00	METAL CHIP 220 5%	1/10W
R207	1-216-073-00	METAL CHIP 10K 5%	1/10W				
R208	1-216-073-00	METAL CHIP 10K 5%	1/10W	R327	1-216-033-00	METAL CHIP 220 5%	1/10W
R209	1-216-073-00	METAL CHIP 10K 5%	1/10W	R328	1-216-033-00	METAL CHIP 220 5%	1/10W
R210	1-216-073-00	METAL CHIP 10K 5%	1/10W	R329	1-216-033-00	METAL CHIP 220 5%	1/10W
R211	1-216-073-00	METAL CHIP 10K 5%	1/10W	R330	1-216-033-00	METAL CHIP 220 5%	1/10W
R213	1-216-073-00	METAL CHIP 10K 5%	1/10W	R331	1-216-065-00	METAL CHIP 4.7K 5%	1/10W
R214	1-216-073-00	METAL CHIP 10K 5%	1/10W				
R215	1-216-073-00	METAL CHIP 10K 5%	1/10W	R332	1-216-065-00	METAL CHIP 4.7K 5%	1/10W
R216	1-216-073-00	METAL CHIP 10K 5%	1/10W	R333	1-216-065-00	METAL CHIP 4.7K 5%	1/10W
				R334	1-216-065-00	METAL CHIP 4.7K 5%	1/10W
				R501	1-216-041-00	METAL CHIP 470 5%	1/10W
				R502	1-216-041-00	METAL CHIP 470 5%	1/10W
				R504	1-216-049-00	METAL CHIP 1K 5%	1/10W
				R505	1-216-049-00	METAL CHIP 1K 5%	1/10W
				R506	1-216-049-00	METAL CHIP 1K 5%	1/10W
				< VIBRATOR >			
				X201	1-577-358-21	VIBRATOR, CERAMIC (4MHz)	
				X301	1-567-908-11	VIBRATOR, CRYSTAL (16.9MHz)	

CDP-H3600

SONY SERVICE MANUAL

US Model
Canadian Model
E Model
Australian Model

CORRECTION-1

Correct your service manual as shown below.

SUPPLEMENT-1 SERVICE MANUAL

 : Indicates corrected portion

Page	INCORRECT			CORRECT		
	<u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>No.</u>	<u>Part No.</u>	<u>Description</u>
<25>	IC303	8-759-981-95	IC RC4558PS	IC303	8-759- <u>996-43</u>	IC RC4558PS
	IC304	8-759-981-95	IC RC4558PS	IC304	8-759- <u>996-43</u>	IC RC4558PS
(28)	IC304	8-759-981-95	IC RC4558PS	IC304	8-759- <u>996-43</u>	IC RC4558PS

↑ < > SUPPLEMENT-1
() SERVICE MANUAL