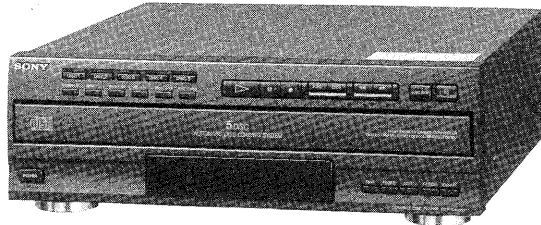


CDP-C433M

SERVICE MANUAL

*AEP Model
E Model
Australian Model*



This set is compact disc player section
in LBT-A590/A595/A790/A795.

Model Name Using Similer Mechanism	CDP-C325M/C422M
CD Mechanism Type	CDM16E8-5BD13
Base Unit Type	BU-5BD13B
Optical Pick-up Type	KSS-240A

SPECIFICATIONS

System	Compact disc digital audio system
Laser	Semiconductor laser
Wavelength	780 - 790 nm
Frequency response	2 Hz - 20 kHz (± 0.5 dB)
Signal to noise ratio	More than 100 dB
Dynamic range	More than 98 dB
Harmonic distortion	Less than 0.005% (1 kHz)
Channel separation	More than 96 dB (1 kHz)
Wow and flutter	Below measurable limit
Outputs	
LINE OUT (phono jacks)	Output level 2 V (at 50 kilohms) Load impedance over 10 kilohms

General

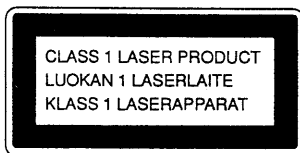
Power requirements	
Model for the Australia	240 V AC, 50/60 Hz
Model for Continental Europe	220 - 230 V AC, 50/60 Hz
Model for other countries	110 - 120 or 220 - 240 V AC adjustable, 50/60 Hz
Power consumption	12 W
Dimensions (not including projecting parts and controls)	Approx. 355 x 120 x 385 mm (w/h/d) (14 x 4 3/4 x 15 1/4 inches)
Weight	Approx. 5.0 kg (11 lbs 1 oz)
Supplied accessories	Audio signal connecting cord 1 (phono plug x 2 $\leftrightarrow$ phono plug x 2)

Design and specifications subject to change without notice.



COMPACT DISC PLAYER
SONY®

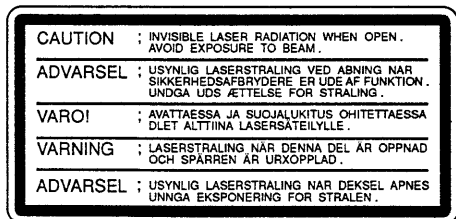
Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.



This Compact Disc player is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT label is located on the rear exterior.

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

The following caution label is located inside of the unit.



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.

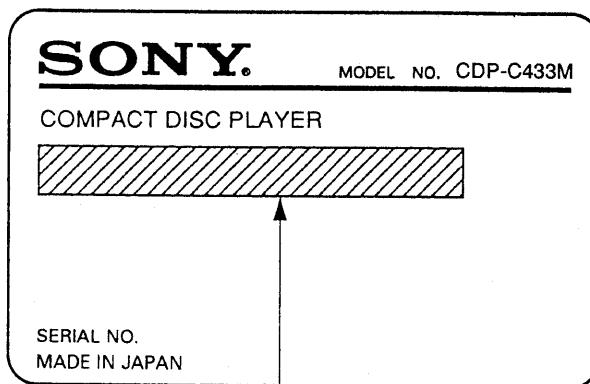
The flexible board is easily damaged and should be handled with care.

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.

MODEL IDENTIFICATION

— Specification Label —



AEP model : AC220—230V, 50/60Hz, 12W
E model : AC110—120/220—240V, 50/60Hz, 12W
Australian model : AC240V, 50/60Hz 12W

Notes on chip component replacement

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

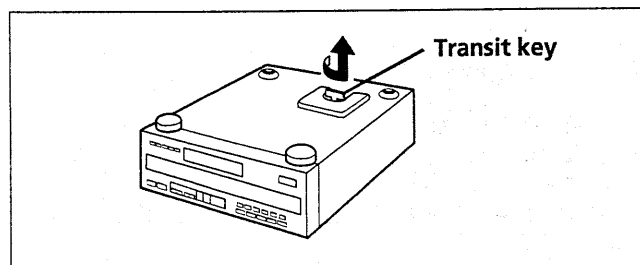
SAFETY-RELATED COMPONENT WARNING !!

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.

TABLE OF CONTENTS

<u>Section</u>	<u>Title</u>	<u>Page</u>
1.	GENERAL	
	Location of controls	4
2.	SERVICING NOTE	5
3.	ELECTRICAL BLOCK CHECKING	6
4.	DIAGRAMS	
4-1.	Circuit Boards Location	8
4-2.	Semiconductor Lead Layouts	8
4-3.	Block Diagram	9
4-4.	Printed Wiring Board — BD Section —	12
4-5.	Schematic Diagram — BD Section —	15
4-6.	Schematic Diagram — Main Section —	19
4-7.	Printed Wiring Boards — Main Section —	23
4-8.	IC Pin Functions	
	• IC101 Digital Signal Processor (CXD2515Q)	29
	• IC103 Digital Filter & D/A Converter (CXD2565AM) ...	31
	• IC321 System Control (CXP82316-038Q)	32
5.	EXPLODED VIEWS	
5-1.	Cabinet Assembly	33
5-2.	Chassis Assembly	34
5-3.	Tray Assembly	35
5-4.	Optical Pick-up Block (BU-5BD13B)	36
6.	ELECTRICAL PARTS LIST	37

Note on the Transit key



The transit key on the bottom exterior of the unit protects the optical system against shock during transportation. Before operating the CD player, be sure to remove the key by following the instructions on the label, and store it in a safe place.

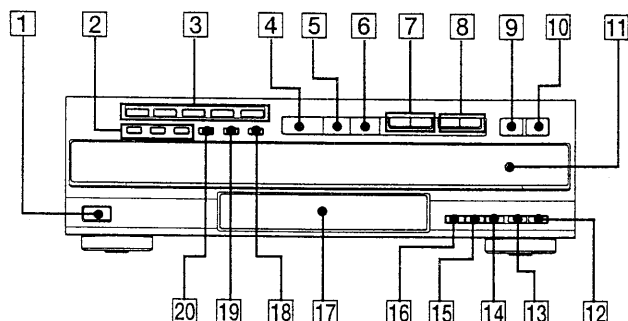
When transporting the unit, replace the key in its original hole and lock it in place.

SECTION 1 GENERAL

This section is extracted from instruction manual.

Location of Controls

Refer to the pages indicated in () for details.



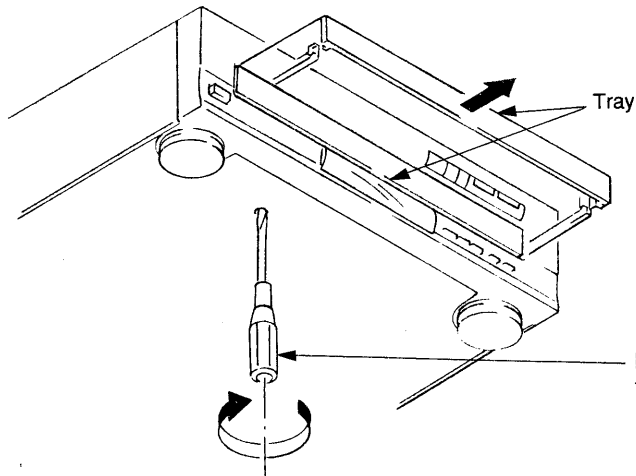
- 1 POWER switch (page 12)
- 2 PLAY MODE buttons
CONTINUE button (page 12)
SHUFFLE button (page 20)
PROGRAM button (page 22, 28)
- 3 DISC 1-5 buttons (page 12)
- 4 ► (play) button (page 12)
- 5 || (pause) button (page 12)
- 6 ■ (stop) button (page 12)
- 7 ◀◀/▶▶ (AMS*) buttons (page 16)
- 8 ◀◀/▶▶ (manual search) buttons (page 18)
- 9 DISC SKIP button (page 12)
- 10 ▲ OPEN/CLOSE button (page 12)
- 11 Disc tray (page 12)
- 12 CLEAR (program clear) button (page 24)
- 13 CHECK (program check) button (page 24)
- 14 EDIT button (page 32)
- 15 FADER button (page 36)
- 16 TIME button (page 14)
- 17 Display window
- 18 PEAK SEARCH button (page 36)
- 19 MUSIC SCAN button (page 18)
- 20 REPEAT button (page 26)

* AMS is the abbreviation of Automatic Music Sensor.

SECTION 2

SERVICING NOTE

2-1. HOW TO OPEN THE DISC TRAY WHEN POWER SWITCH TURNS OFF



Insert a tapering driver into aperture of the unit bottom, and turn in the direction of arrow (to OUT direction).

* To close the disc tray, turn the driver in the reverse direction (to IN direction).

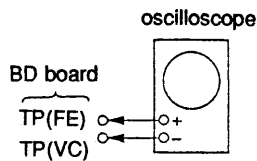
SECTION 3

ELECTRICAL BLOCK CHECKING

Note :

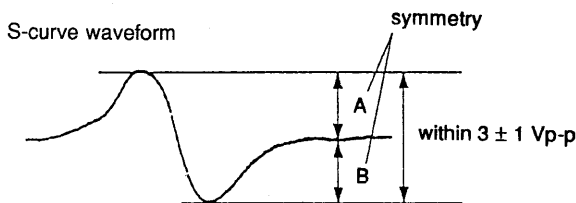
1. CD Block basically constructed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use the oscilloscope with more than $10M\Omega$ impedance.
4. Clean an object lens by an applicator with neutral detergent when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

S Curve Check



Procedure :

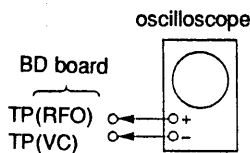
1. Connect oscilloscope to test point TP (FE) on BD board.
2. Connect between test point TP (FEI) and TP (VC) by lead wire.
3. Turned Power switch on.
4. Put disc (YEDS-18) in and turned Power switch on again and actuate the focus search. (actuate the focus search when disc table is moving in and out.)
5. Check the oscilloscope waveform (S curve) is symmetrical between A and B. And confirm peak to peak level within 3 ± 1 Vp-p.



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

Note : • Try to measure several times to make sure than 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. Turned Power switch on.

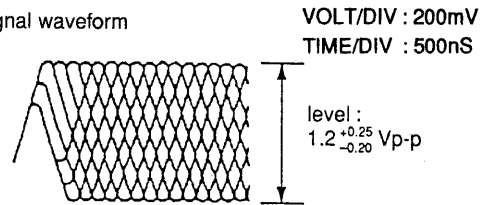
3. Put disc (YEDS-18) in and playback.

4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

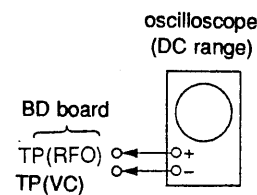
Note :

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

RF signal waveform

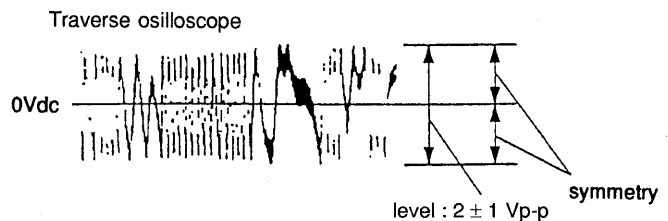


E-F Balance Check



Procedure :

1. Connect test point TP (ADI) on MAIN board to ground and TP(TEI) to TP (VC) with lead wire.
2. Connect oscilloscope to test point TP (TE) on BD board.
3. Turned 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 0Vdc, and check this level.

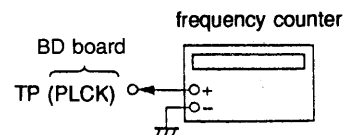


6. Remove the lead wire connected in step 1.

RF Free-run Frequency Check

Procedure :

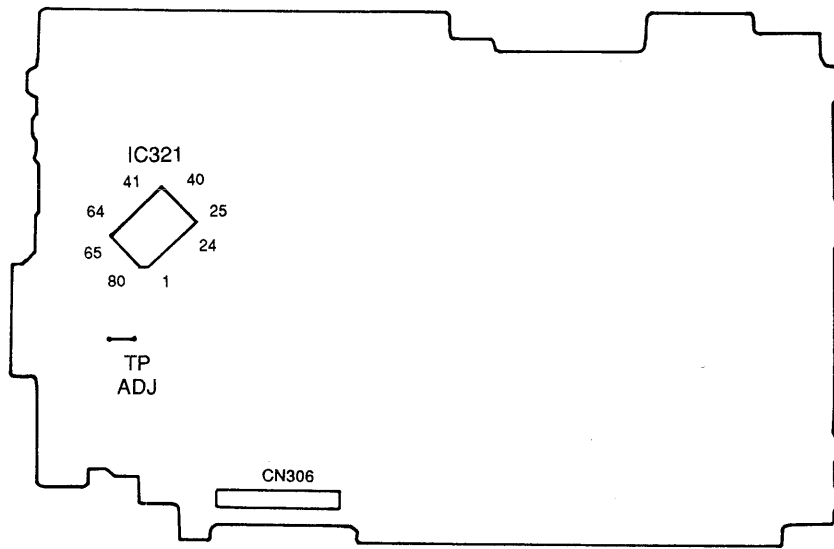
1. Connect frequency counter to test point (PLCK) with lead wire.



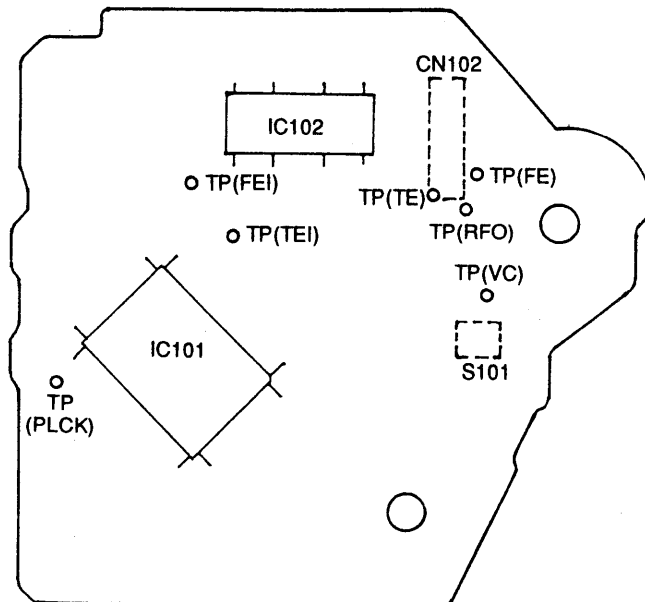
2. Turned Power switch on.
3. Confirm that reading on frequency counter is 4.3218MHz.

Adjustment Location :

[MAIN BOARD] — Conductor Side —

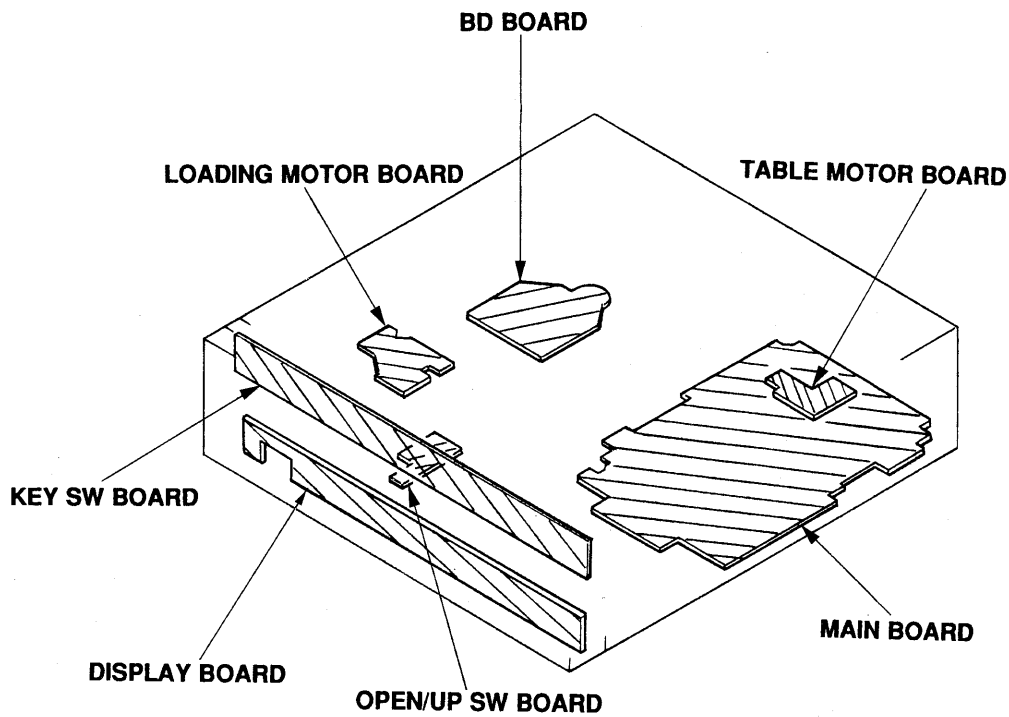


[BD BOARD] — Conductor Side —



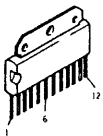
SECTION 4 DIAGRAMS

4-1. CIRCUIT BOARDS LOCATION

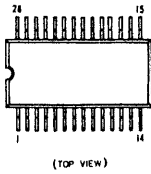


4-2. SEMICONDUCTOR LEAD LAYOUTS

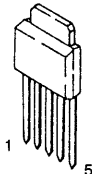
BA6191



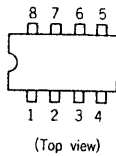
CXD2565AM



L78LR05D



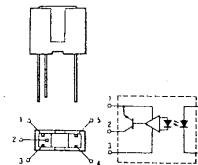
UPC4558C



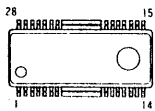
**DTA144ES
DTC144ES**



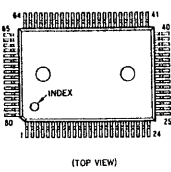
GP-1A521



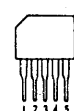
BA6392FP



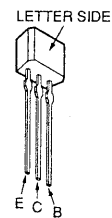
CXP82316-038Q



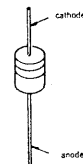
M5293L



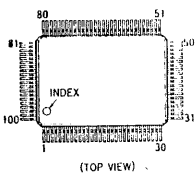
**2SA1175-HFE
2SC403SP-51
2SC3623A-LK**



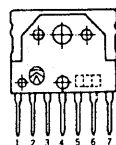
**RD5.6ESB2
RD9.1ESB2
11ES2**



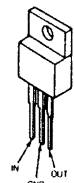
CXD2515Q



LA5602



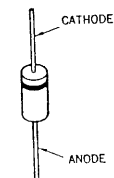
M5F78M07L



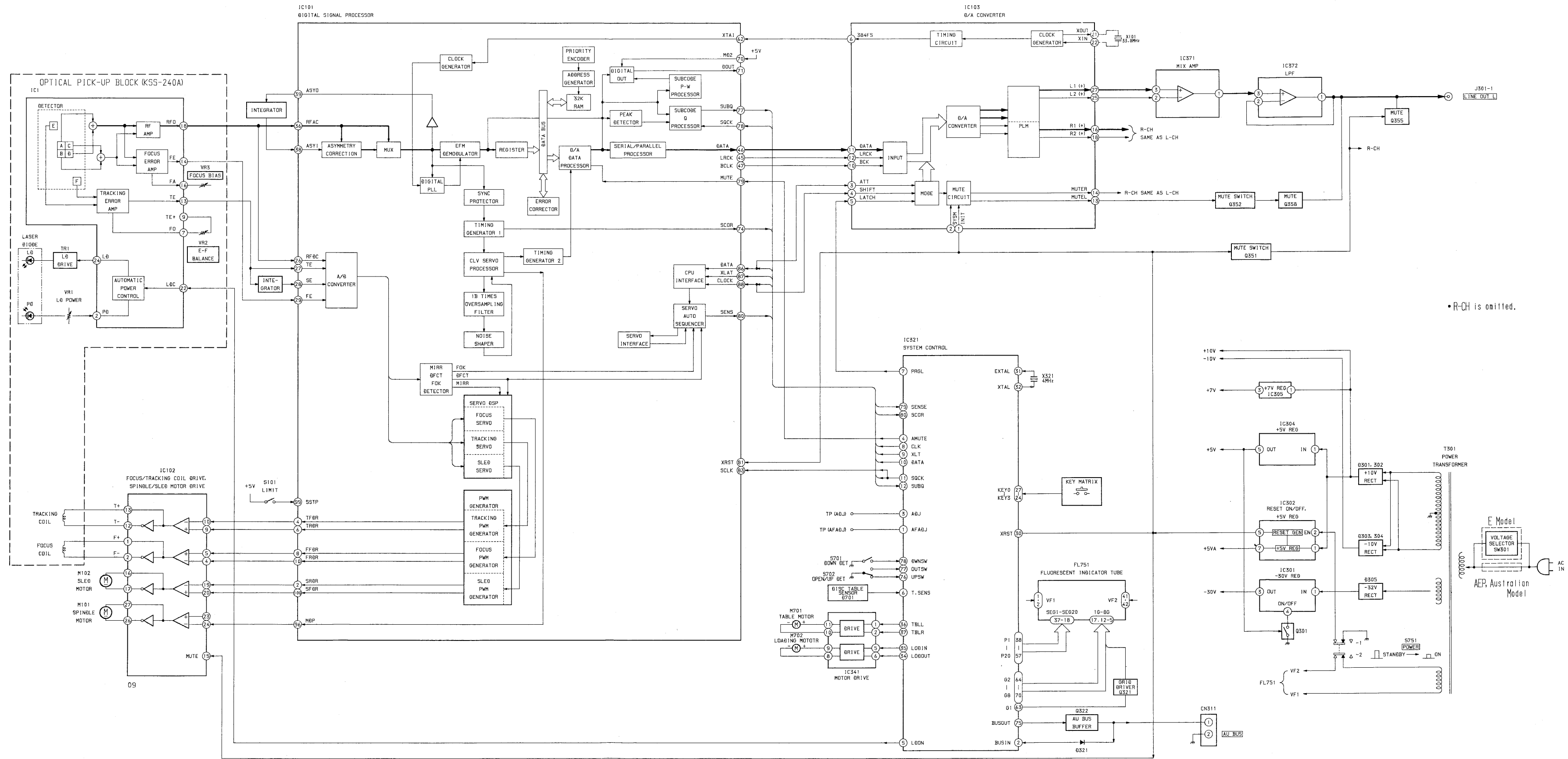
2SC2878-AB



1N4148M



4-3. BLOCK DIAGRAM

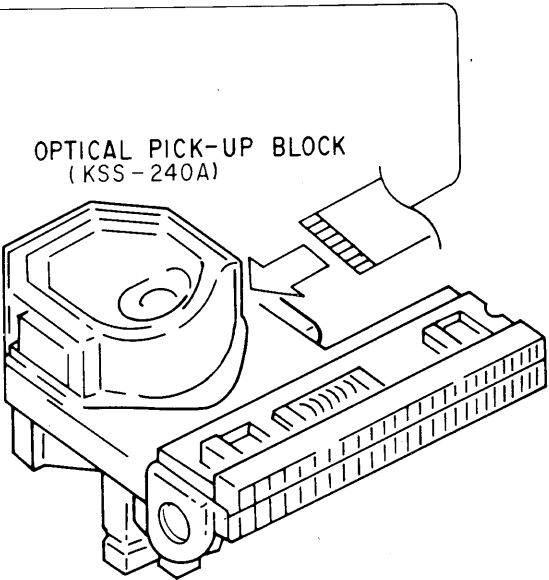
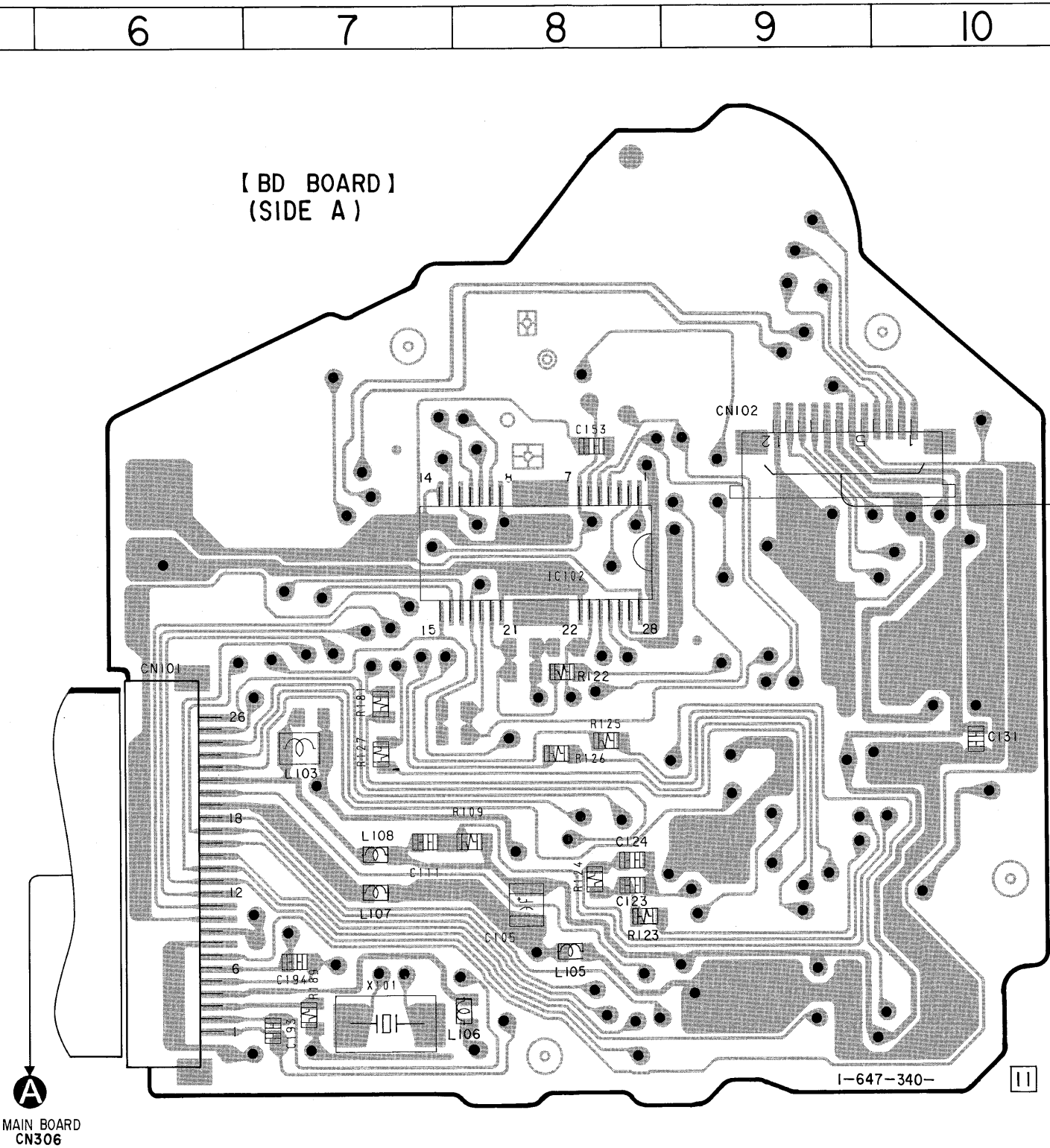
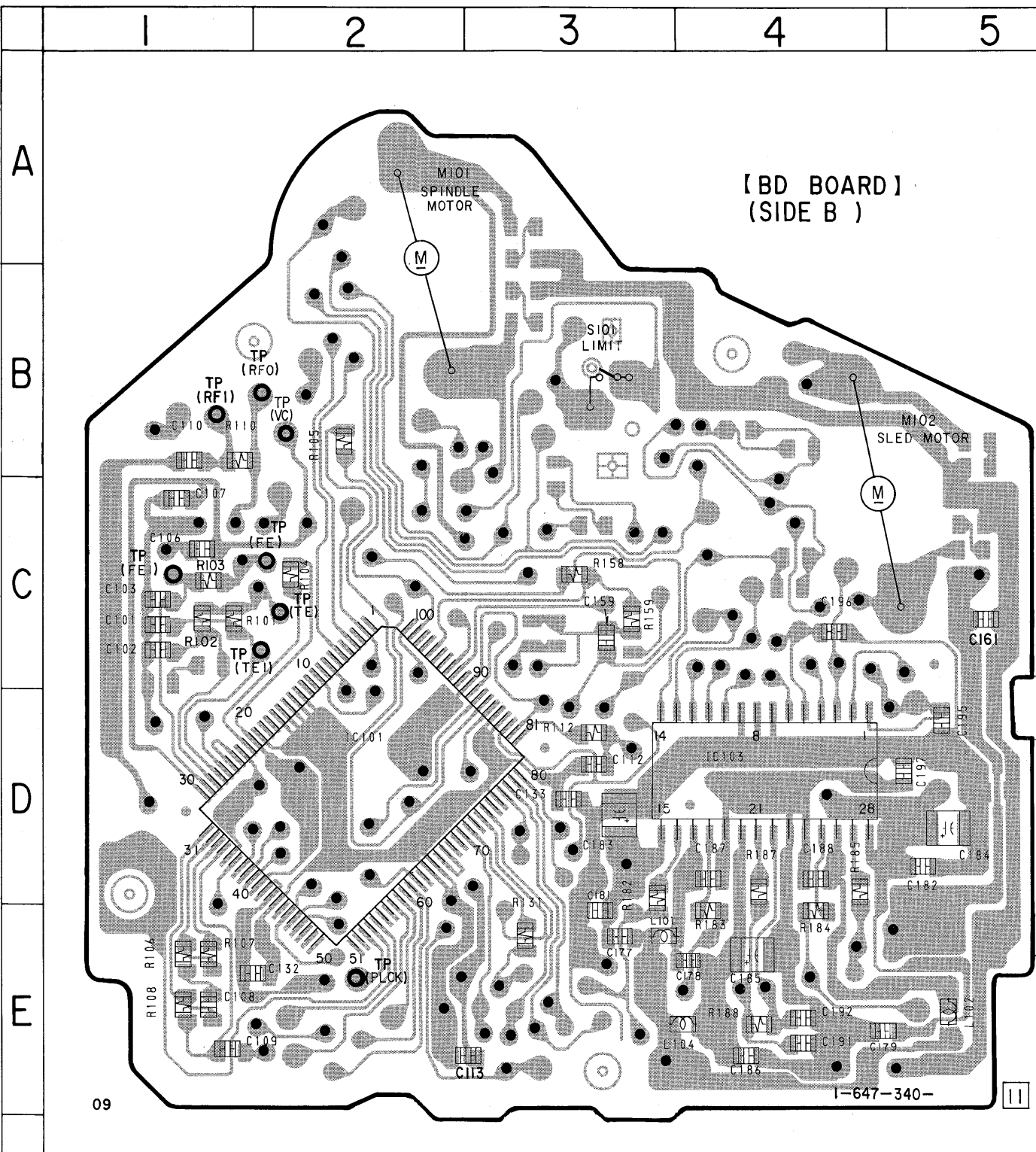


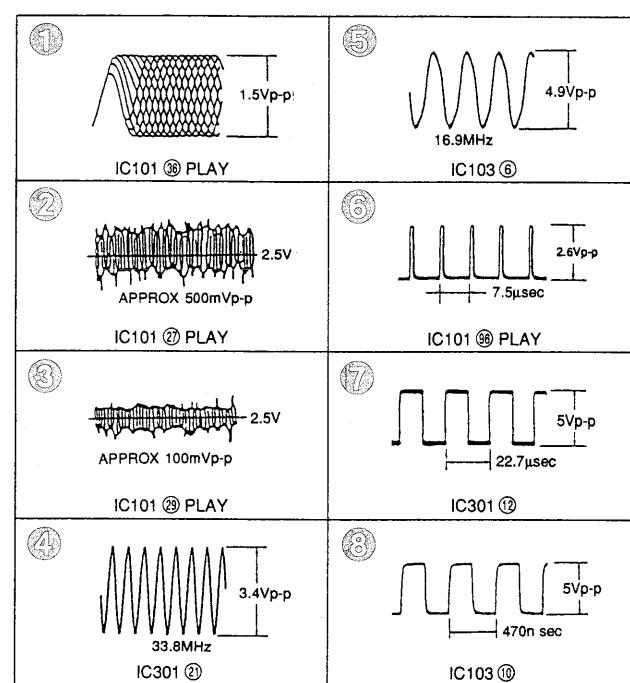
4-4. PRINTED WIRING BOARD — BD SECTION —
• See page 8 for Circuit Boards Location.
• See page 8 for Semiconductor Lead Layouts.

• Semiconductor Location

Ref. No.	Location
IC101	D-2
IC102	C-8
IC103	D-4

Note:
• : Through hole.
• : Pattern from the side which enable seeing.
(The other layer's patterns are not indicated.)





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 Ω and 1/4W or less unless otherwise specified.

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

• unterminated : 8+ Line

- Voltage and waveforms are dc with respect to ground under no-signal conditions.

• Voltages are taken with a VOM (Input impedance $10\text{M}\Omega$). Voltage variations may be noted due to normal production tolerances.

- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.

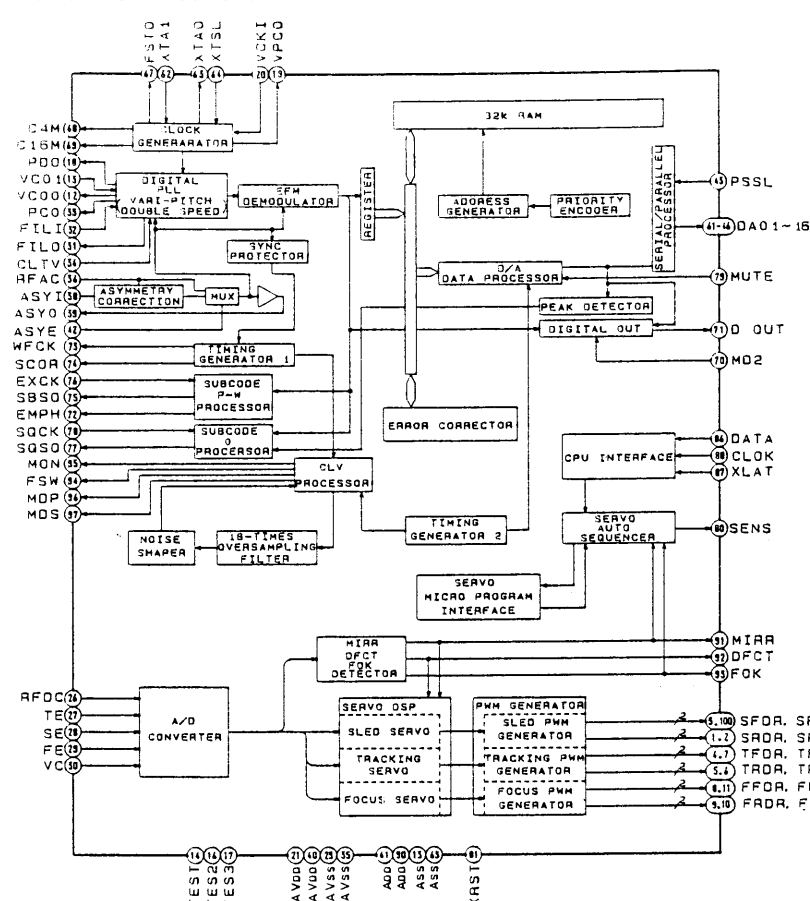
- Circled numbers refer to waveforms.

- Signal path.

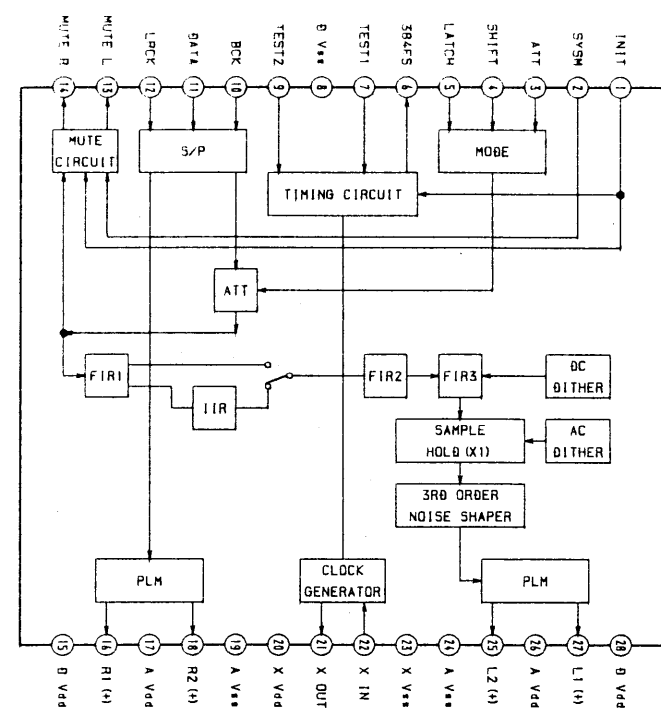
⇒ CD

- IC Block Diagrams

IC101 CXD2515Q



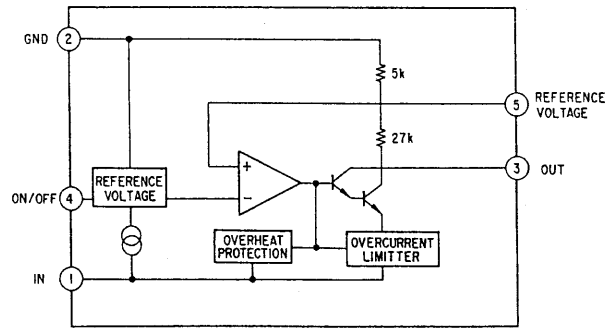
IC103 CXD2565AM



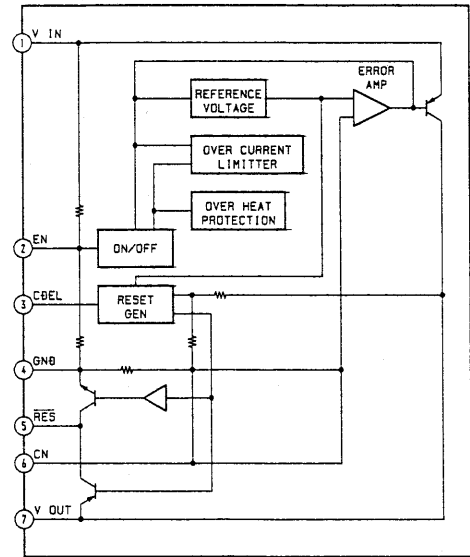
4-6. SCHEMATIC DIAGRAM — MAIN SECTION —
• See page 32 for IC Pin Functions. (IC321)

• IC Block Diagrams

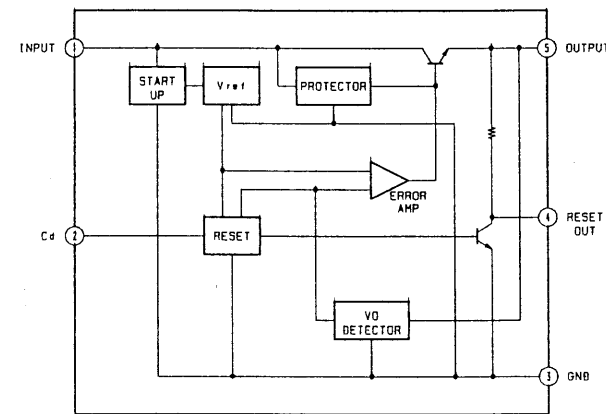
IC301 M5293L



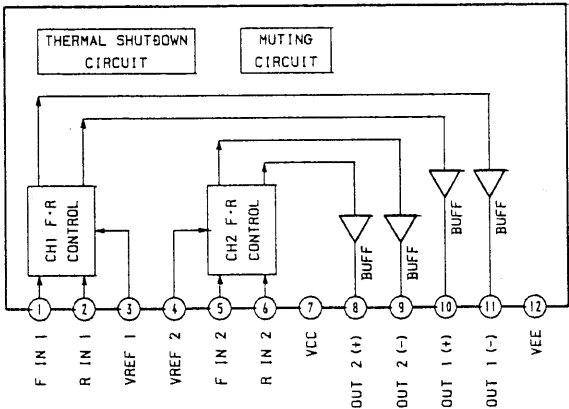
IC302 LA5602



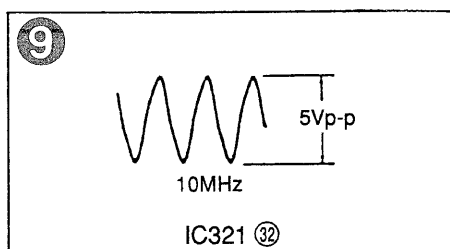
IC304 L78LR05D



IC341 BA6191



• Waveform

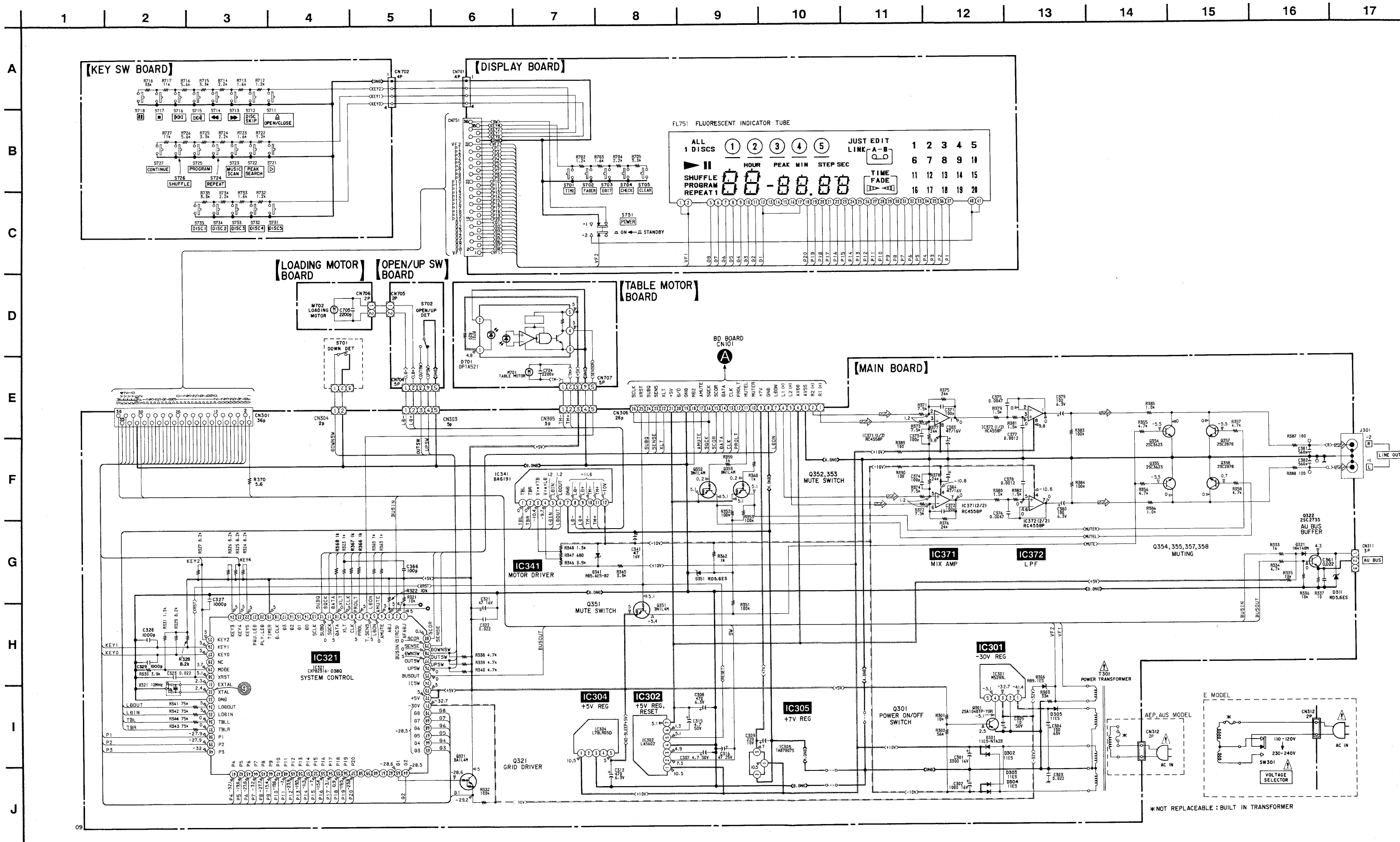


Note:

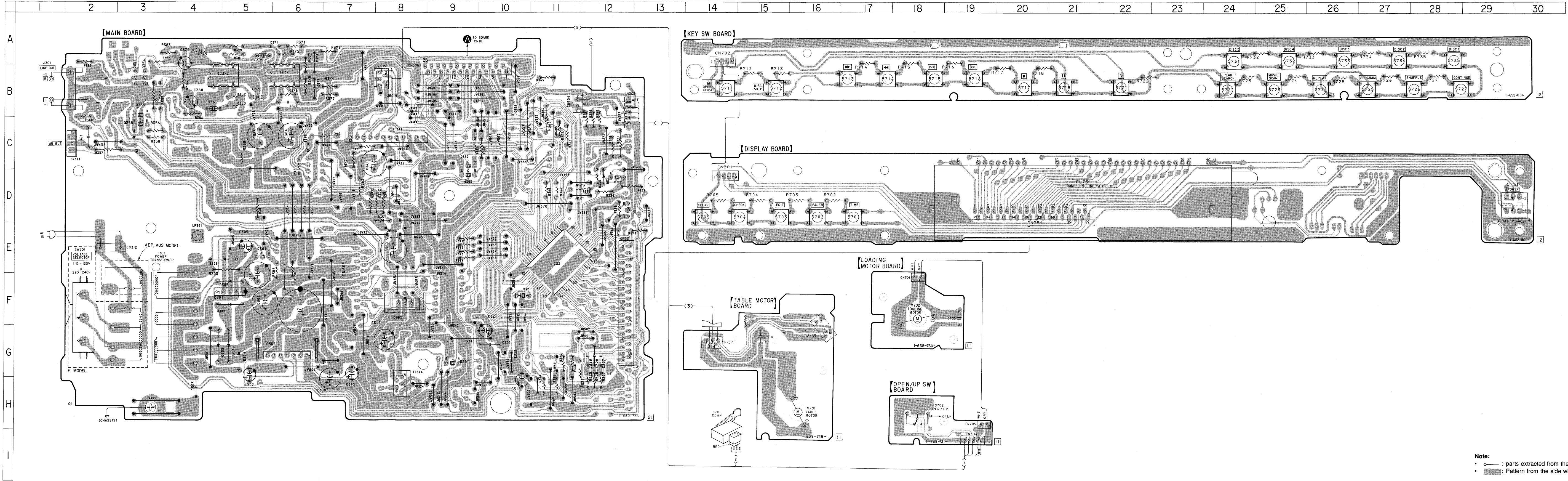
- All capacitors are in μF unless otherwise noted. $\text{pF}; \mu\text{F}; \mu\text{F}$ 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- Δ : internal component.
- $\square$: panel designation.

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

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



4-7. PRINTED WIRING BOARDS — MAIN SECTION —
• See page 8 for Circuit Boards Location.
• See page 8 for Semiconductor Lead Layouts.



Semiconductor Location	
Ref. No.	Location
D301	G-5
D302	G-5
D303	F-5
D304	G-5
D305	F-5
D306	E-4
D311	C-3
D321	D-12
D341	C-6
D351	D-8
D701	G-16
IC301	F-4
IC302	G-5
IC304	G-8
IC305	F-8
IC321	E-11
IC341	C-8
IC371	B-6
IC372	B-5
Q301	E-5
Q321	D-13
Q322	D-12
Q351	G-9
Q352	C-9
Q353	D-9
Q354	A-3
Q355	B-3
Q357	A-3
Q358	C-3

Note:
• : parts extracted from the component side.
• : Pattern from the side which enable seeing.

4-8. IC PIN FUNCTIONS

• IC101 DIGITAL SIGNAL PROCESSOR (CXD2515Q)

Pin No.	Pin Name	I/O	Function
1	SRON	O	Sled drive output
2	SRDR	O	Sled drive output
3	SFON	O	Sled drive output
4	TFDR	O	Tracking drive output
5	TRON	O	Tracking drive output
6	TRDR	O	Tracking drive output
7	TFON	O	Tracking drive output
8	FFDR	O	Focus drive output
9	FRON	O	Focus drive output
10	FRDR	O	Focus drive output
11	FFON	O	Focus drive output
12	VCOO	O	VCO output for analog EFM PLL
13	VCOI	I	VCO output for analog EFM PLL
14	TEST	I	TEST pin connected normally to GND
15	DVss	—	Digital GND
16	TES2	I	TEST pin connected normally to GND
17	TES3	I	TEST pin connected normally to GND
18	PDO	O	Charge-pump output for analog EFM PLL
19	VPCO	O	Charge-pump output for variable pitch PLL
20	VCKI	I	Clock input from variable pitch external VCO
21	AVD2	—	Analog power supply
22	IGEN	I	Power supply pin for operational amplifiers
23	AVS2	—	Analog GND
24	ADII	I	Input pin for A/D converter
25	ADIO	O	Operational amplifier output pin
26	RFDC	I	RF signal input
27	TE	I	Tracking error signal input
28	SE	I	Sled error signal input
29	FE	I	Focus error signal input
30	VC	I	Center voltage input pin
31	FILO	O	Filter output for master PLL
32	FILI	I	Filter input for master PLL
33	PCO	O	Charge-pump output for master PLL
34	CLTV	I	Control voltage input for master VCO
35	AVS1	—	Analog GND
36	RFAC	I	EFM signal input
37	BIAS	I	Asymmetry circuit constant current input
38	ASYI	I	Asymmetry compare voltage input
39	ASYO	O	EFM full swing output
40	AVD1	—	Analog power supply

Pin No.	Pin Name	I/O	Function
41	DVDD	—	Digital power supply
42	ASYE	I	Asymmetry circuit ON/OFF
43	PSSL	I	Audio data output mode selection input
44	WDCK	O	48-bit slot D/A interface. Word clock
45	LRCK	O	48-bit slot D/A interface. LR clock
46	DATA	O	DA 16 output when PSSL=1. 48-bit slot serial data when PSSL=0
47	BCLK	O	DA 15 output when PSSL=1. 48-bit slot data when PSSL=0
48	64DATA	O	DA 14 output when PSSL=1. 64-bit slot data when PSSL=0
49	64BCLK	O	DA 13 output when PSSL=1. 64-bit slot data when PSSL=0
50	64LRCK	O	DA 12 output when PSSL=1. 64-bit slot data when PSSL=0
51	GTOP	O	DA 11 output when PSSL=1. GTOP output when PSSL=0
52	XUGF	O	DA 10 output when PSSL=1. XUGF output when PSSL=0
53	XPLCK	O	DA 09 output when PSSL=1. XPLCK output when PSSL=0
54	GFS	O	DA 08 output when PSSL=1. GFS output when PSSL=0
55	PFCK	O	DA 07 output when PSSL=1. RFCK output when PSSL=0
56	C2PO	O	DA 06 output when PSSL=1. C2PO output when PSSL=0
57	XRAOF	O	DA 05 output when PSSL=1. XRAOF output when PSSL=0
58	MNT3	O	DA 04 output when PSSL=1. MNT3 output when PSSL=0
59	MNT2	O	DA 03 output when PSSL=1. MNT2 output when PSSL=0
60	MNT1	O	DA 02 output when PSSL=1. MNT1 output when PSSL=0
61	MNT0	O	DA 01 output when PSSL=1. MNT0 output when PSSL=0
62	XTAI	I	X'tal oscillator circuit input
63	XTAO	O	X'tal oscillator circuit output
64	XTSL	I	X'tal selection input pin
65	DVss	—	Digital GND
66	FSTI	I	2/3 divider output of pins 62, 63
67	FSTO	O	2/3 divider output of pins 62, 63
68	C4M	O	4.2336 MHz output
69	C16M	O	16.9344 MHz output
70	MD2	I	Digital-out ON/OFF control pin
71	DOUT	O	Digital-out output pin
72	EMPH	O	Playback disc output in emphasis mode
73	WFCK	O	WFCK output
74	SCOR	O	Sub-code sync output
75	SBSO	O	Sub-P through Sub-W serial output
76	EXCK	I	Clock input for SBSO read-out
77	SUBQ	O	Sub-Q 80-bit output
78	SQCK	I	Clock input for SQSO read-out
79	MUTE	I	Muting selection pin
80	SENS	O	SENS output
81	XRST	I	System reset
82	DIRC	I	Used in 1-track jump mode
83	SCLK	I	SENS serial data read-out clock
84	DFSW	I	DFCT selection pin
85	ATSK	I	Input pin for anti-shock

Pin No.	Pin Name	I/O	Function
86	DATA	I	Serial data input, supplied from CPU
87	XLAT	I	Latch input, supplied from CPU
88	CLOK	I	Serial data transfer clock input, supplied from CPU
89	COUT	O	Numbers of track counted signal output
90	DVDD	—	Digital power supply
91	MIRR	O	Mirror signal output
92	DFCT	O	Defect signal output
93	FOK	O	Focus OK output
94	FSW	O	Output to select spindle motor output filter
95	MON	O	Output to control ON/OFF of spindle motor
96	MDP	O	Output to control spindle motor servo
97	MDS	O	Output to control spindle motor servo
98	LOCK	O	GFS is sampled by 460 Hz. H when GFS is H
99	SSTP	I	Input signal to detect disc inner most track
100	SFDR	O	Sled drive output

• IC103 DIGITAL FILTER & D/A CONVERTER (CXD2565AM)

Pin No.	Pin Name	I/O	Function
1	INIT	I	Re-synchronizing at rise-up edge of this signal
2	SYSM	—	Connected to GND
3	ATT	I	Attenuation data input
4	SHIFT	I	Shift clock input
5	LATCH	I	Latch clock input
6	384FS	O	384FS clock output
7	TEST1	—	Connected to GND
8	DVss	—	Digital GND
9	TEST2	—	Connected to GND
10	BCK	I	BCK input
11	DATA	I	Data input
12	LRCK	I	LRCK input
13	MUTEL	O	Not used
14	MUTER	O	Not used
15	DVDD1	—	Digital power supply
16	R1 (+)	O	R-ch PLM output-1 (positive phase)
17	AVDDR	—	L-ch analog power supply
18	R2 (+)	O	R-ch PLM output-2 (positive phase)
19	AVssR	—	L-ch analog GND
20	XVDD	—	Master clock power supply
21	XOUT	O	X'tal oscillator output (33.8 MHz)
22	XIN	I	X'tal oscillator input (33.8 MHz)
23	XVss	—	Master clock GND
24	AVssL	—	L-ch analog GND
25	L2 (+)	O	L-ch PLM output-2 (positive phase)
26	AVDDL	—	L-ch analog power supply
27	L1 (+)	O	L-ch PLM output-1 (positive phase)
28	DVDD2	—	Digital power supply

• IC321 SYSTEM CONTROL (CXP82316-038Q)

Pin No.	Pin Name	I/O	Function
1	AF ADJ	I	Test mode pin. Normally: "H"
2	BUSIN	I	Audio bus input
3	ADJ	I	Test mode pin. Normally: "H"
4	AMUTE	O	Analog muting control signal output
5	LDON	O	Optical pick-up laser diode control. ON: "H"
6	T.SENS	I	Slit sensor of disc table input
7	PRGL	O	Latch signal output pin to digital filter IC
8	CLK	O	Serial clock output
9	XLT	O	Serial data latch signal output
10	DATA	O	Serial data output
11	SQCK	O	Subcode Q data readout clock output
12	SUBQ	I	Subcode Q data input
13	SCLK	O	Internal register of DSP readout clock output
14 to 17	D0 to D3	—	} Not used
18	D.CLK	—	
19	TIMER	—	
20	PLY.LED	—	
21	PAU.LED	—	
22 to 27	KEY0 to KEY5	I	Key input
28	NC	—	Not used
29	MODE	I	Disc table feeling and stop precision fine adjustment
30	XRST	I	Reset signal input
31	EXTAL	I	10 MHz clock input
32	XTAL	O	10 MHz clock output
33	GND	—	GND
34	LODOUT	O	} Loading motor control
35	LODIN	O	
36	TBLL	O	} Table motor control
37	TBLR	O	
38 to 57	P1 to P20	O	FL segment output
58 to 62	—	—	Not used
63 to 70	G1 to G8	O	FL grid output
71	−30V	—	−30V
72	+5V	—	} +5V
73	—	—	
74	ICSW	—	Not used
75	BUSOUT	O	Audio bus output
76	UPSW	I	Disc table up det
77	OUTSW	I	Loading output det
78	DWNSW	I	Disc table down det
79	SENSE	I	SENSE signal input
80	SCOR	I	Subcode Q data readout timing signal input

EXPLODED VIEWS

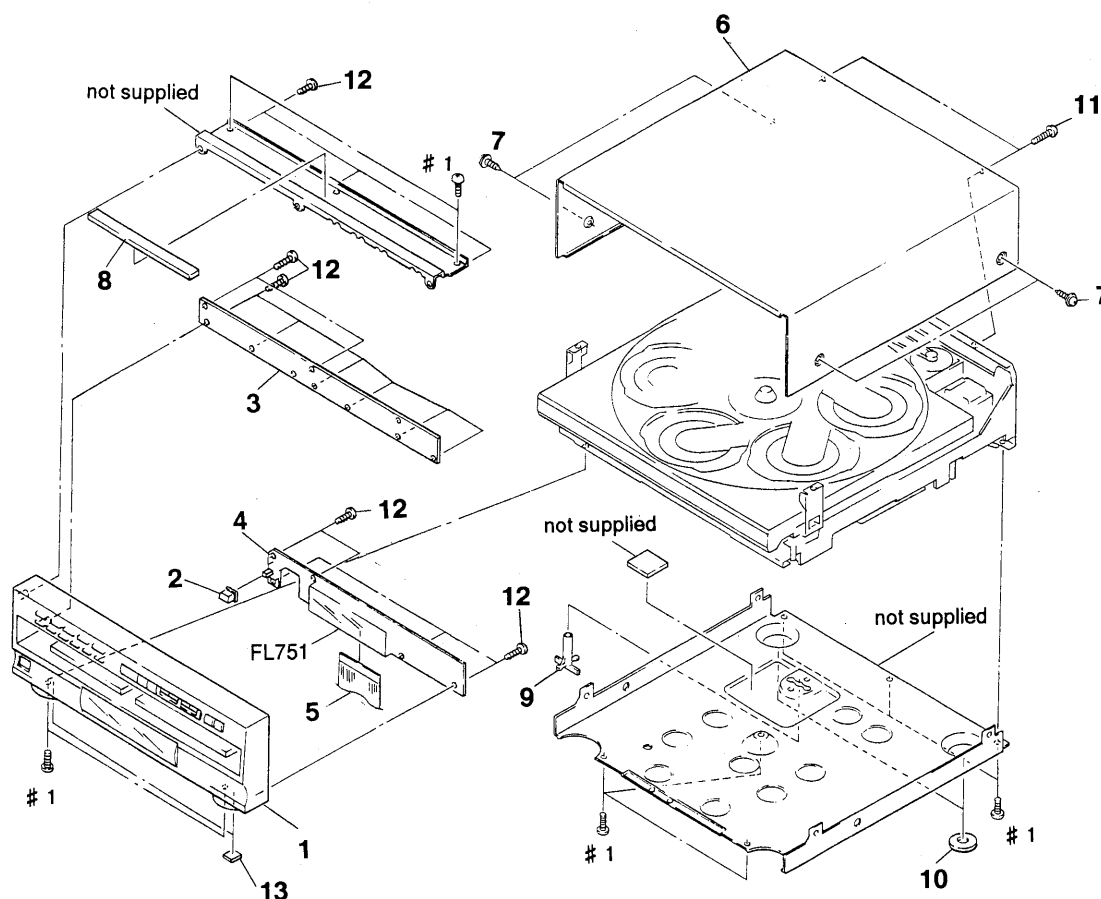
NOTE:

- | | |
|-------------|-----------------|
| Parts color | Cabinet's color |
|-------------|-----------------|

- AUS : Australian model

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

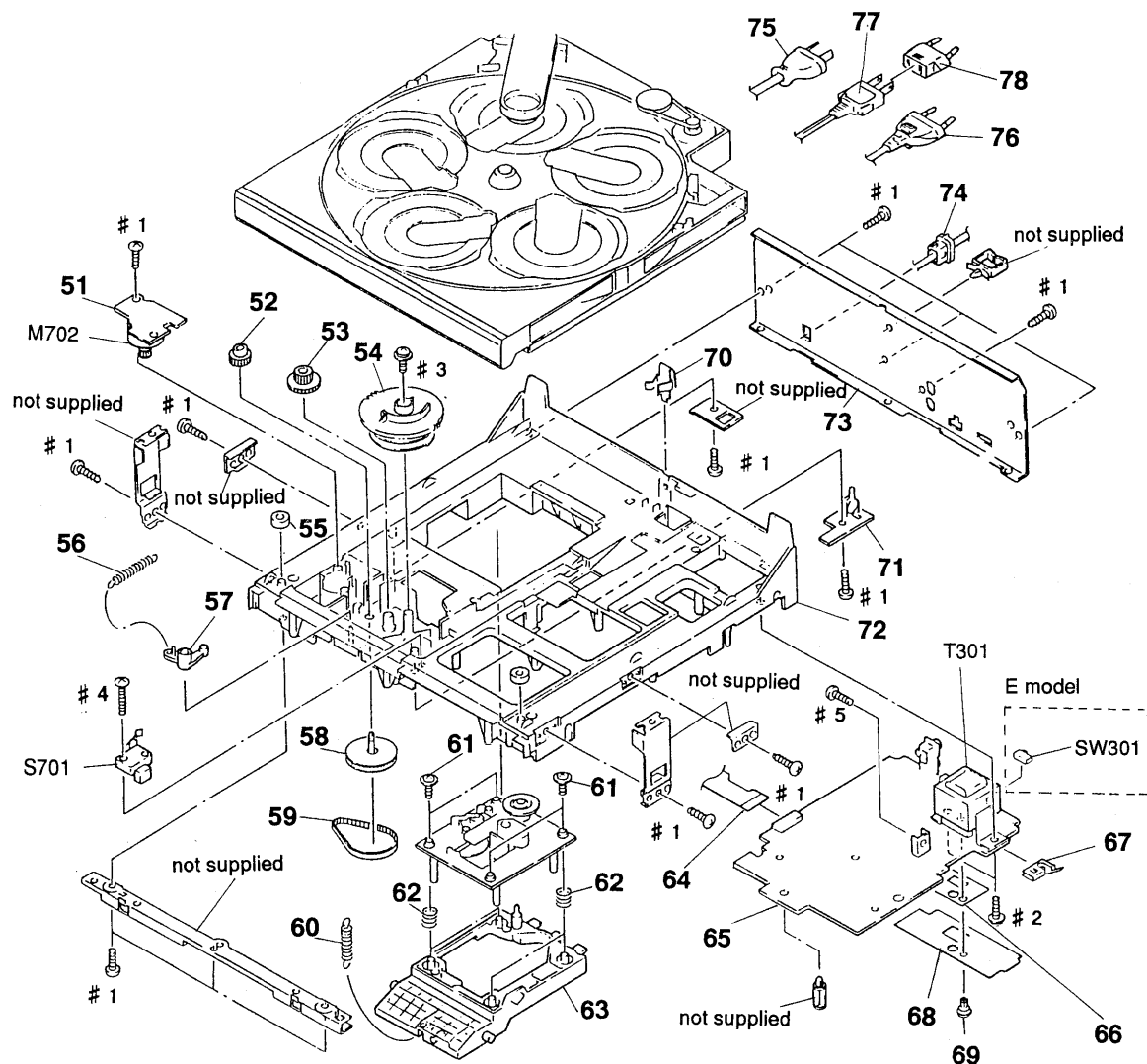
5-1. CABINET ASSEMBLY



<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
1	X-4944-684-2	PANEL ASSY, FRONT
2	4-963-098-01	BUTTON (POWER)
* 3	A-4673-077-A	KEY SW BOARD, COMPLETE
* 4	1-652-800-12	DISPLAY BOARD
5	1-765-431-11	WIRE (FLAT TYPE) (36 CORE)
* 6	4-943-992-01	CASE
7	3-704-366-01	SCREW (CASE) (M3X8)

<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
	* 8	4-929-557-01	CUSHION (PANEL)	
	9	4-937-945-01	PLATE (TRANSPORT), LOCK	
	10	4-924-410-01	FELT	
	11	3-703-685-21	SCREW (+BV 3X8)	
	12	4-951-620-01	SCREW (2. 6X8), +BVTP	
	* 13	4-965-193-01	CUSHION	
	FL751	1-519-721-11	INDICATOR TUBE, FLUORESCENT	

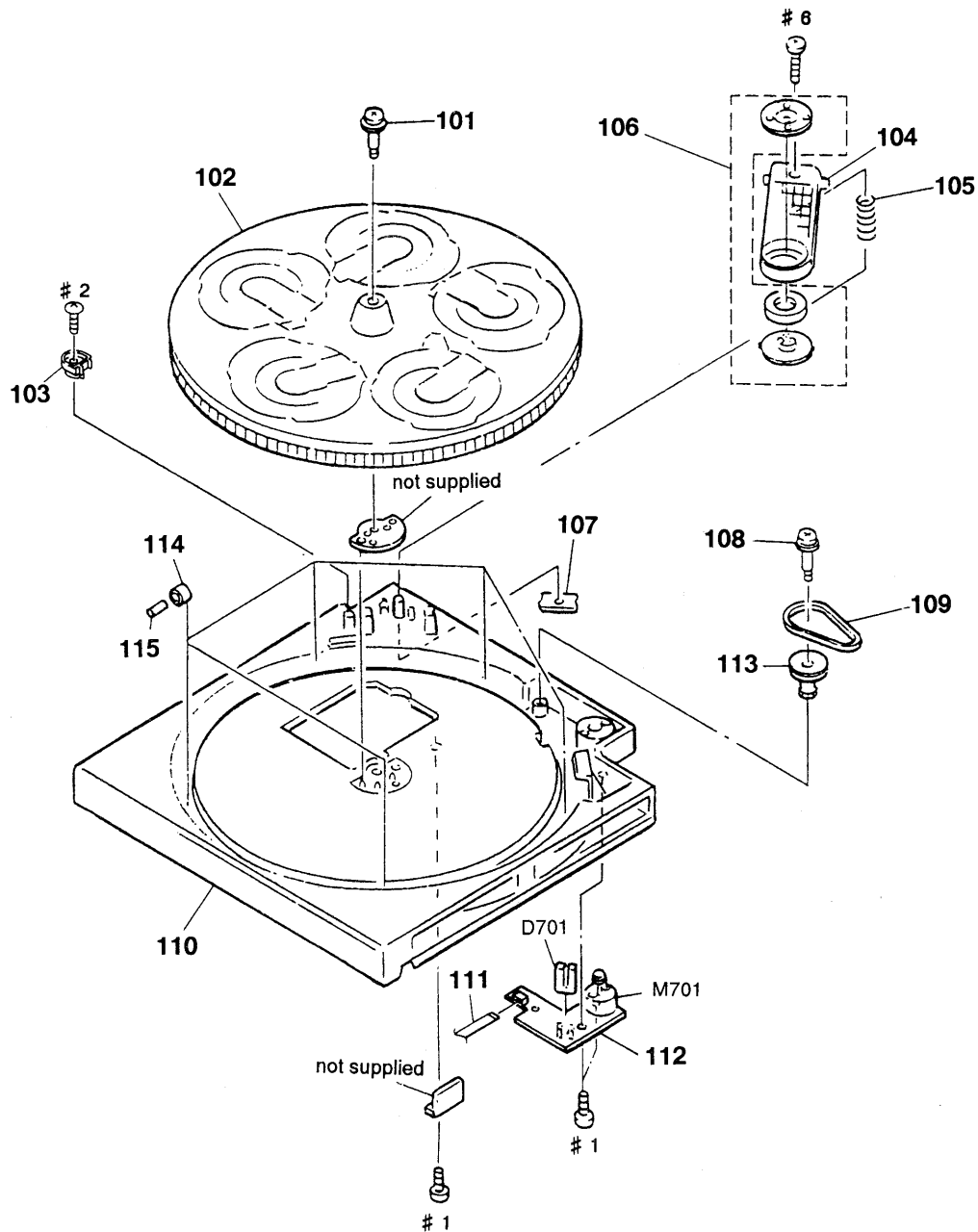
5-2. CHASSIS ASSEMBLY



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

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
* 51	1-638-730-11	LOADING MOTOR BOARD		69	3-531-576-11	RIVET	
52	4-934-375-01	GEAR (LOADING B)		* 70	4-943-996-06	SPRING, LEAF	
53	4-934-381-01	GEAR (LOADING C)		* 71	1-638-731-11	OPEN/UP SW BOARD	
54	4-934-391-01	GEAR (LOADING A)		* 72	4-943-997-01	CHASSIS	
* 55	4-951-619-01	CUSHION (A)		* 73	4-965-054-01	PANEL, BACK (AEP)	
56	4-924-412-01	SPRING (B), TENSION		* 73	4-965-054-11	PANEL, BACK (AUS)	
57	4-917-519-01	LEVER, SET		* 73	4-965-054-21	PANEL, BACK (E)	
58	X-4941-529-1	PULLEY ASSY		* 74	3-703-244-00	BUSHING (2104), CORD (AEP, AUS)	
59	4-944-490-01	BELT (TIMING)		* 74	3-703-571-11	BUSHING (S) (4516), CORD (E)	
60	4-937-911-01	SPRING, TENSION		$\triangle$ 75	1-574-358-31	CORD, POWER (WITH CONNECTOR) (AUS)	
61	4-933-134-01	SCREW (+PTWH M2.6X6)		$\triangle$ 76	1-575-651-21	CORD, POWER (AEP)	
62	4-958-593-01	SPRING (BU), COMPRESSION		$\triangle$ 77	1-696-027-11	CORD, POWER (E)	
* 63	4-934-373-01	BRACKET (BU)		$\triangle$ 78	1-569-007-11	ADAPTER, CONVERSION 2P (E)	
64	1-537-645-11	JUMPER, FILM (WITH TERMINAL)		M702	A-4604-834-A	MOTOR ASSY, LOADING	
* 65	A-4673-079-A	MAIN BOARD, COMPLETE (AEP, AUS)		S701	1-572-713-11	SWITCH, PUSH (WITH CONNECTOR) (DOWN DET)	
* 65	A-4673-080-A	MAIN BOARD, COMPLETE (E)		$\triangle$ SW301	1-572-675-11	SWITCH, POWER VOLTAGE CHANGE (E)	
* 66	4-951-933-01	SHEET, INSULATING (AEP, AUS)		$\triangle$ T301	1-423-554-11	TRANSFORMER, POWER (AEP, AUS)	
* 67	4-944-581-01	PLATE, GROUND		$\triangle$ T301	1-423-555-11	TRANSFORMER, POWER (E)	
* 68	4-944-178-01	SHEET (INSULATING)					

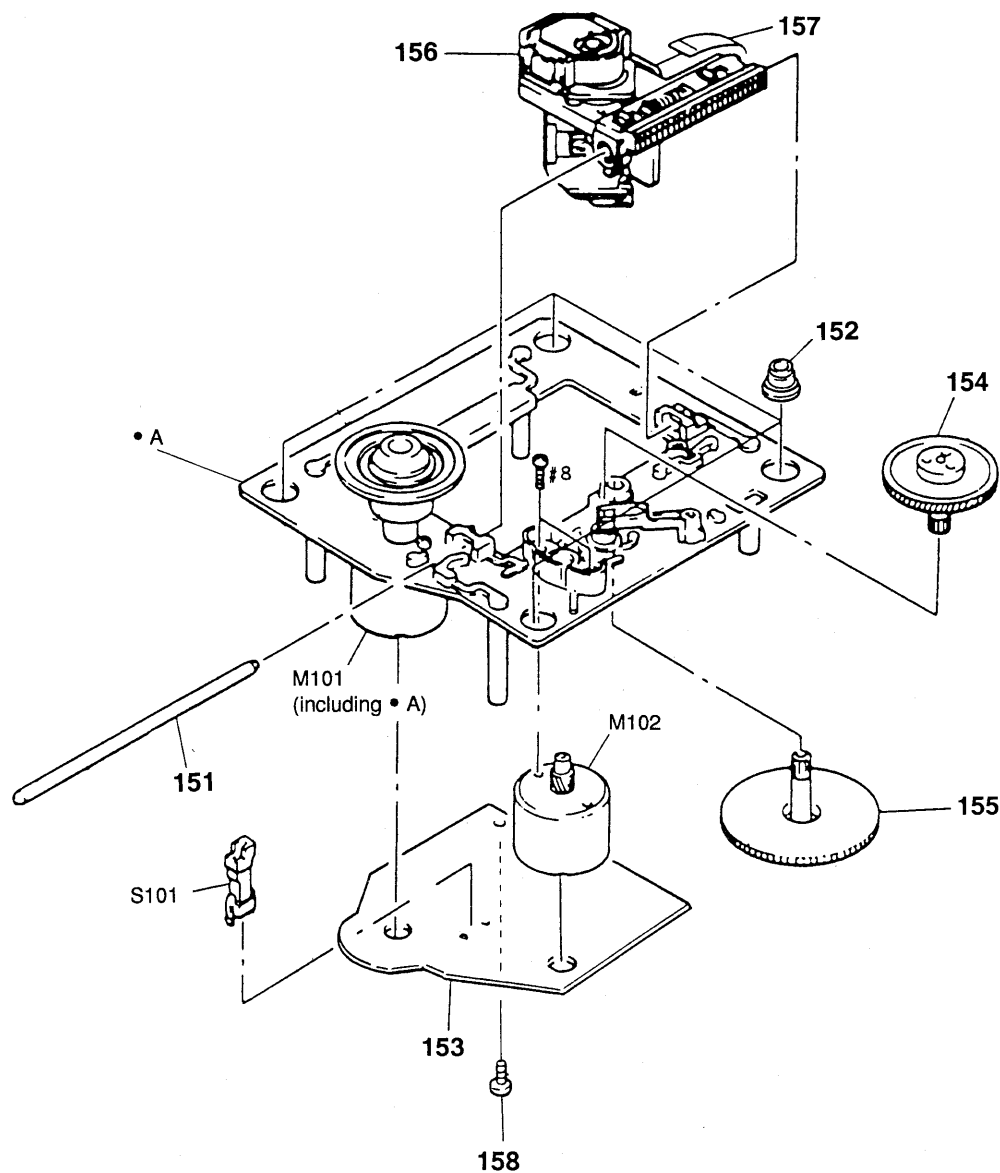
5-3. TRAY ASSEMBLY



Ref. No.	Part No.	Description
101	4-926-384-01	SCREW, STEP
* 102	4-926-383-01	TABLE (B), DISK
* 103	4-949-226-01	PLATE, LOCK
* 104	4-930-506-02	BRACKET (PRESS PULLEY)
105	4-926-395-01	SPRING, COMPRESSION
* 106	1-452-538-11	MAGNET
* 107	4-926-388-01	BRACKET (ADJUSTMENT)
108	4-923-597-01	SCREW, STEP
109	4-926-399-01	BELT

Ref. No.	Part No.	Description
* 110	4-944-160-91	TABLE (A), DISC
111	1-590-849-11	WIRE, FLAT TYPE (5 CORE)
* 112	1-638-729-11	TABLE MOTOR BOARD
113	4-934-380-01	PULLEY (R)
114	X-4924-457-1	ROLLER ASSY
115	4-934-376-01	SHAFT (ROLLER)
D701	8-719-970-19	DIODE GP1A521
M701	A-4604-585-A	MOTOR ASSY, ROTARY (TABLE)

5-4. OPTICAL PICK-UP BLOCK (BU-5BD13B)



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

Ref. No.	Part No.	Description
151	4-917-565-01	SHAFT, SLED
152	4-951-940-01	INSULATOR (BU)
* 153	A-4649-955-A	BD BOARD, COMPLETE
154	4-917-567-01	GEAR (M)
155	4-917-564-01	GEAR (P), FLATNESS

<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
	A156	8-848-144-11	OPTICAL PICK-UP BLOCK (KSS-240A)	
	157	1-575-001-11	WIRE, FLAT TYPE (12 CORE)	
	M101	X-4917-523-3	MOTOR ASSY (SPINDLE)	
	M102	X-4917-504-1	MOTOR ASSY (SLED)	
	S101	1-572-085-11	SWITCH, LEAF (LIMIT)	

SECTION 6

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.

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.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts Example:
KNOB, BALANCE (WHITE) ... (RED)

↑
Parts color

↑
Cabinet's color
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

- RESISTORS
All resistors are in ohms
METAL: Metal-film resistor
METAL OXIDE: Metal Oxide-film resistor
F : nonflammable
- 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
- AUS : Australian model

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
*	A-4649-955-A	BD BOARD, COMPLETE *****				< CONNECTOR >	
		< CAPACITOR >		* CN101	1-580-875-11	SOCKET, CONNECTOR (SMT) 26P	
				CN102	1-565-771-11	CONNECTOR, FPC (1.0MM) (ZIF) 12P	
						< IC >	
C101	1-163-005-11	CERAMIC CHIP 470PF 10% 50V		IC101	8-752-361-90	IC CXD2515Q	
C102	1-163-038-00	CERAMIC CHIP 0.1uF 25V		IC102	8-759-176-09	IC, BA6392FP	
C103	1-163-005-11	CERAMIC CHIP 470PF 10% 50V		IC103	8-752-367-61	IC CXD2565AM	
C105	1-135-155-21	TANTALUM CHIP 4.7uF 10% 16V				< COIL >	
C106	1-164-346-11	CERAMIC CHIP 1uF 16V					
				L101	1-414-234-11	INDUCTOR, FERRITE BEAD	
C107	1-164-505-11	CERAMIC CHIP 2.2uF 16V		L102	1-414-234-11	INDUCTOR, FERRITE BEAD	
C108	1-163-035-00	CERAMIC CHIP 0.047uF 50V		L103	1-414-234-11	INDUCTOR, FERRITE BEAD	
C109	1-163-011-11	CERAMIC CHIP 0.0015uF 10% 50V		L104	1-216-001-00	METAL CHIP 10 5% 1/10W	
C110	1-163-017-00	CERAMIC CHIP 0.0047uF 5% 50V		L105	1-216-295-00	METAL CHIP 0 5% 1/10W	
C111	1-163-251-11	CERAMIC CHIP 100PF 5% 50V					
				L106	1-414-234-11	INDUCTOR, FERRITE BEAD	
C112	1-163-038-00	CERAMIC CHIP 0.1uF 25V		L107	1-216-295-00	METAL CHIP 0 5% 1/10W	
C113	1-163-038-00	CERAMIC CHIP 0.1uF 25V		L108	1-216-295-00	METAL CHIP 0 5% 1/10W	
C123	1-164-232-11	CERAMIC CHIP 0.01uF 50V				< MOTOR >	
C124	1-164-005-11	CERAMIC CHIP 0.47uF 25V		M101	X-4917-523-3	MOTOR ASSY (SPINDLE)	
C131	1-163-038-00	CERAMIC CHIP 0.1uF 25V		M102	X-4917-504-1	MOTOR ASSY (SLED)	
						< RESISTOR >	
C132	1-163-038-00	CERAMIC CHIP 0.1uF 25V		R101	1-216-077-00	METAL CHIP 15K 5% 1/10W	
C133	1-163-038-00	CERAMIC CHIP 0.1uF 25V		R102	1-216-097-00	METAL CHIP 100K 5% 1/10W	
C153	1-163-038-00	CERAMIC CHIP 0.1uF 25V		R103	1-216-077-00	METAL CHIP 15K 5% 1/10W	
C159	1-163-019-00	CERAMIC CHIP 0.0068uF 10% 50V		R104	1-216-085-00	METAL CHIP 33K 5% 1/10W	
C161	1-163-038-00	CERAMIC CHIP 0.1uF 25V		R105	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
C177	1-163-038-00	CERAMIC CHIP 0.1uF 25V		R106	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
C178	1-163-038-00	CERAMIC CHIP 0.1uF 25V		R107	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
C179	1-163-038-00	CERAMIC CHIP 0.1uF 25V		R108	1-216-073-00	METAL CHIP 10K 5% 1/10W	
C181	1-163-038-00	CERAMIC CHIP 0.1uF 25V		R109	1-216-121-00	METAL CHIP 1M 5% 1/10W	
C182	1-163-038-00	CERAMIC CHIP 0.1uF 25V		R110	1-216-025-00	METAL CHIP 100 5% 1/10W	
C183	1-135-156-21	TANTALUM CHIP 6.8uF 10% 10V		R112	1-216-049-00	METAL CHIP 1K 5% 1/10W	
C184	1-135-156-21	TANTALUM CHIP 6.8uF 10% 10V		R122	1-216-295-00	METAL CHIP 0 5% 1/10W	
C185	1-135-156-21	TANTALUM CHIP 6.8uF 10% 10V		R123	1-216-073-00	METAL CHIP 10K 5% 1/10W	
C186	1-163-038-00	CERAMIC CHIP 0.1uF 25V		R124	1-216-097-00	METAL CHIP 100K 5% 1/10W	
C187	1-163-038-00	CERAMIC CHIP 0.1uF 25V		R125	1-216-049-00	METAL CHIP 1K 5% 1/10W	
C188	1-163-038-00	CERAMIC CHIP 0.1uF 25V		R126	1-216-049-00	METAL CHIP 1K 5% 1/10W	
C191	1-163-091-00	CERAMIC CHIP 8PF 50V		R127	1-216-049-00	METAL CHIP 1K 5% 1/10W	
C192	1-163-091-00	CERAMIC CHIP 8PF 50V					
C193	1-163-125-00	CERAMIC CHIP 220PF 5% 50V					
C194	1-163-125-00	CERAMIC CHIP 220PF 5% 50V					
C195	1-163-038-00	CERAMIC CHIP 0.1uF 25V					
C196	1-163-005-11	CERAMIC CHIP 470PF 10% 50V					
C197	1-163-038-00	CERAMIC CHIP 0.1uF 25V					

BD	DISPLAY	KEY SW	LOADING MOTOR
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Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
R131	1-216-037-00	METAL CHIP	330 5% 1/10W	R713	1-247-836-11	CARBON	1.6K 5% 1/4W
R158	1-216-111-00	METAL CHIP	390K 5% 1/10W	R714	1-249-421-11	CARBON	2.2K 5% 1/4W F
R159	1-216-101-00	METAL CHIP	150K 5% 1/10W	R715	1-249-423-11	CARBON	3.3K 5% 1/4W F
				R716	1-249-426-11	CARBON	5.6K 5% 1/4W
R181	1-216-053-00	METAL CHIP	1.5K 5% 1/10W	R717	1-247-856-00	CARBON	11K 5% 1/4W
R182	1-216-080-00	METAL CHIP	20K 5% 1/10W	R718	1-249-435-11	CARBON	33K 5% 1/4W
R183	1-216-080-00	METAL CHIP	20K 5% 1/10W	R722	1-249-418-11	CARBON	1.2K 5% 1/4W F
R184	1-216-080-00	METAL CHIP	20K 5% 1/10W	R723	1-247-836-11	CARBON	1.6K 5% 1/4W
R185	1-216-080-00	METAL CHIP	20K 5% 1/10W	R724	1-249-421-11	CARBON	2.2K 5% 1/4W F
R187	1-216-035-00	METAL CHIP	270 5% 1/10W	R725	1-249-423-11	CARBON	3.3K 5% 1/4W F
R188	1-216-121-00	METAL CHIP	1M 5% 1/10W	R726	1-249-426-11	CARBON	5.6K 5% 1/4W
R189	1-414-234-11	INDUCTOR, FERRITE BEAD		R727	1-247-856-00	CARBON	11K 5% 1/4W
		< SWITCH >		R732	1-249-418-11	CARBON	1.2K 5% 1/4W F
S101	1-572-085-11	SWITCH, LEAF (LIMIT)		R733	1-247-836-11	CARBON	1.6K 5% 1/4W
		< VIBRATOR >		R734	1-249-421-11	CARBON	2.2K 5% 1/4W F
X101	1-579-904-11	VIBRATOR, CRYSTAL (33.8MHz)		R735	1-249-423-11	CARBON	3.3K 5% 1/4W F
		< SWITCH >					
*****				S711	1-554-303-21	SWITCH, TACTILE (△ OPEN/CLOSE)	
*	1-652-800-12	DISPLAY BOARD		S712	1-554-303-21	SWITCH, TACTILE (DISC SKIP)	
		*****		S713	1-554-303-21	SWITCH, TACTILE (▶▶▶)	
		< CONNECTOR >		S714	1-554-303-21	SWITCH, TACTILE (◀◀◀)	
CN751	1-695-397-31	PIN, CONNECTOR (PC BOARD) 36P		S715	1-554-303-21	SWITCH, TACTILE (▷▷▷)	
		< FLUORESCENT INDICATOR >		S716	1-554-303-21	SWITCH, TACTILE (◁◁◁)	
FL751	1-519-721-11	INDICATOR TUBE, FLUORESCENT		S717	1-554-303-21	SWITCH, TACTILE (■)	
		< RESISTOR >		S718	1-554-303-21	SWITCH, TACTILE (▣)	
R702	1-249-418-11	CARBON	1.2K 5% 1/4W F	S721	1-554-303-21	SWITCH, TACTILE (▷)	
R703	1-247-836-11	CARBON	1.6K 5% 1/4W	S722	1-554-303-21	SWITCH, TACTILE (PEAK SEARCH)	
R704	1-249-421-11	CARBON	2.2K 5% 1/4W F	S723	1-554-303-21	SWITCH, TACTILE (MUSIC SCAN)	
R705	1-249-423-11	CARBON	3.3K 5% 1/4W F	S724	1-554-303-21	SWITCH, TACTILE (REPEAT)	
		< SWITCH >		S725	1-554-303-21	SWITCH, TACTILE (PROGRAM)	
S701	1-554-303-21	SWITCH, TACTILE (TIME)		S726	1-554-303-21	SWITCH, TACTILE (SHUFFLE)	
S702	1-554-303-21	SWITCH, TACTILE (FADER)		S727	1-554-303-21	SWITCH, TACTILE (CONTINUE)	
S703	1-554-303-21	SWITCH, TACTILE (EDIT)		S731	1-554-303-21	SWITCH, TACTILE (DISC 5)	
S704	1-554-303-21	SWITCH, TACTILE (CHECK)		S732	1-554-303-21	SWITCH, TACTILE (DISC 4)	
S705	1-554-303-21	SWITCH, TACTILE (CLEAR)		S733	1-554-303-21	SWITCH, TACTILE (DISC 3)	
S751	1-554-118-00	SWITCH, PUSH (1 KEY) (POWER)		S734	1-554-303-21	SWITCH, TACTILE (DISC 2)	
		< SWITCH >		S735	1-554-303-21	SWITCH, TACTILE (DISC 1)	
*****				*****			
*	A-4673-077-A	KEY SW BOARD, COMPLETE		*	1-638-730-11	LOADING MOTOR BOARD	
		*****				*****	
		< RESISTOR >				< CAPACITOR >	
R712	1-249-418-11	CARBON	1.2K 5% 1/4W F	C705	1-161-375-00	CERAMIC	0.0022uF 20% 50V
						< MOTOR >	
				M702	A-4604-834-A	MOTOR ASSY, LOADING	
*****				*****			

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
*	A-4673-079-A	MAIN BOARD, COMPLETE (AEP, AUS) *****				< DIODE >	
*	A-4673-080-A	MAIN BOARD, COMPLETE (E) *****		D301	8-719-200-82	DIODE 11ES2	
	7-682-548-04	SCREW +BVTT 3X8 (S)		D302	8-719-200-82	DIODE 11ES2	
		< CAPACITOR >		D303	8-719-200-82	DIODE 11ES2	
C301	1-124-887-00	ELECT 3300uF 20%	16V	D304	8-719-200-82	DIODE 11ES2	
C302	1-124-360-00	ELECT 1000uF 20%	16V	D305	8-719-200-82	DIODE 11ES2	
C303	1-161-494-00	CERAMIC 0.022uF	25V				
C304	1-124-572-11	ELECT 100uF 20%	63V	D306	8-719-110-13	DIODE RD9.1ESB2	
C305	1-126-059-11	ELECT 10uF 20%	50V	D311	8-719-109-89	DIODE RD5.6ESB2	
				D321	8-719-987-63	DIODE 1N4148M	
C307	1-126-163-11	ELECT 4.7uF 20%	50V	D341	8-719-109-89	DIODE RD5.6ESB2	
C308	1-124-472-11	ELECT 470uF 20%	10V	D351	8-719-109-89	DIODE RD5.6ESB2	
C309	1-126-101-11	ELECT 100uF 20%	16V			< IC >	
C312	1-124-472-11	ELECT 470uF 20%	10V	IC301	8-759-633-42	IC M5293L	
C315	1-126-163-11	ELECT 4.7uF 20%	50V	IC302	8-759-061-65	IC LA5602	
				IC304	8-759-805-37	IC L78LR05D	
C316	1-124-910-11	ELECT 47uF 20%	50V	IC305	8-759-605-00	IC M5F78M07L	
C321	1-126-022-11	ELECT 47uF 20%	16V	IC321	8-752-854-58	IC CXP82316-038Q	
C322	1-161-494-00	CERAMIC 0.022uF	25V				
C323	1-161-494-00	CERAMIC 0.022uF	25V	IC341	8-759-172-31	IC BA6191	
C327	1-162-294-31	CERAMIC 0.001uF 10%	50V	IC371	8-759-145-58	IC UPC4558C	
				IC371	8-759-989-89	IC BA4558N	
C328	1-162-294-31	CERAMIC 0.001uF 10%	50V	IC372	8-759-145-58	IC UPC4558C	
C329	1-162-294-31	CERAMIC 0.001uF 10%	50V	IC372	8-759-989-89	IC BA4558N	
C341	1-126-022-11	ELECT 47uF 20%	16V			< JACK >	
C361	1-161-494-00	CERAMIC 0.022uF	25V	J301	1-569-442-11	JACK, PIN 2P (LINE OUT)	
C366	1-162-282-31	CERAMIC 100PF 10%	50V			< TRANSISTOR >	
				Q301	8-729-119-76	TRANSISTOR 2SA1175-HFE	
C371	1-162-282-31	CERAMIC 100PF 10%	50V	Q321	8-729-900-89	TRANSISTOR DTC144ES	
C372	1-162-282-31	CERAMIC 100PF 10%	50V	Q322	8-729-119-78	TRANSISTOR 2SC403SP-51	
C373	1-162-282-31	CERAMIC 100PF 10%	50V	Q351	8-729-900-65	TRANSISTOR DTA144ES	
C374	1-162-282-31	CERAMIC 100PF 10%	50V	Q352	8-729-900-65	TRANSISTOR DTA144ES	
C375	1-106-359-00	MYLAR 4700PF 5%	200V				
				Q353	8-729-900-65	TRANSISTOR DTA144ES	
C376	1-106-359-00	MYLAR 4700PF 5%	200V	Q354	8-729-141-30	TRANSISTOR 2SC3623A-LK	
C377	1-130-472-00	MYLAR 0.0012uF 5%	50V	Q355	8-729-141-30	TRANSISTOR 2SC3623A-LK	
C378	1-130-472-00	MYLAR 0.0012uF 5%	50V	Q357	8-729-231-55	TRANSISTOR 2SC2878-AB	
C379	1-124-443-00	ELECT 100uF 20%	10V	Q358	8-729-231-55	TRANSISTOR 2SC2878-AB	
C380	1-124-443-00	ELECT 100uF 20%	10V			< RESISTOR >	
				R301	1-249-429-11	CARBON 10K 5% 1/4W	
C381	1-162-291-31	CERAMIC 560PF 10%	50V	R302	1-249-438-11	CARBON 56K 5% 1/4W	
C382	1-162-291-31	CERAMIC 560PF 10%	50V	R303	1-249-435-11	CARBON 33K 5% 1/4W	
C383	1-126-022-11	ELECT 47uF 20%	16V	R321	1-249-429-11	CARBON 10K 5% 1/4W	
C384	1-126-022-11	ELECT 47uF 20%	16V	R322	1-249-429-11	CARBON 10K 5% 1/4W	
		< CONNECTOR >					
CN301	1-695-397-31	PIN, CONNECTOR (PC BOARD) 36P		R323	1-249-417-11	CARBON 1K 5% 1/4W F	
* CN303	1-568-943-11	PIN, CONNECTOR 5P		R324	1-249-428-11	CARBON 8.2K 5% 1/4W F	
CN305	1-750-997-11	CONNECTOR, FFC/FPC 5P		R325	1-249-428-11	CARBON 8.2K 5% 1/4W F	
CN306	1-764-415-11	CONNECTOR, FFC/FPC 26P		R327	1-249-428-11	CARBON 8.2K 5% 1/4W F	
* CN311	1-565-561-11	PIN, CONNECTOR 3P (AU BUS)		R328	1-249-428-11	CARBON 8.2K 5% 1/4W F	
* CN312	1-573-047-11	PIN, CONNECTOR (PC BOARD) 2P					

MAIN	OPEN/UP SW	TABLE MOTOR
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Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R329	1-249-428-11	CARBON	8.2K 5% 1/4W F	R385	1-249-417-11	CARBON	1K 5% 1/4W F
R330	1-249-424-11	CARBON	3.9K 5% 1/4W F	R386	1-249-417-11	CARBON	1K 5% 1/4W F
R331	1-247-834-11	CARBON	1.3K 5% 1/4W	R387	1-247-807-31	CARBON	100 5% 1/4W
R332	1-249-441-11	CARBON	100K 5% 1/4W	R388	1-247-807-31	CARBON	100 5% 1/4W
R333	1-249-417-11	CARBON	1K 5% 1/4W F	R389	1-247-807-31	CARBON	100 5% 1/4W
R334	1-249-425-11	CARBON	4.7K 5% 1/4W F	R390	1-247-807-31	CARBON	100 5% 1/4W
R335	1-249-429-11	CARBON	10K 5% 1/4W	< SWITCH >			
R336	1-249-429-11	CARBON	10K 5% 1/4W	△SW301	1-572-675-11	SWITCH, POWER VOLTAGE CHANGE (E)	
R337	1-249-393-11	CARBON	10 5% 1/4W F	< TRANSFORMER >			
R338	1-249-425-11	CARBON	4.7K 5% 1/4W F	△T301	1-423-554-11	TRANSFORMER, POWER (AEP, AUS)	
R339	1-249-425-11	CARBON	4.7K 5% 1/4W F	△T301	1-423-555-11	TRANSFORMER, POWER (E)	
R340	1-249-425-11	CARBON	4.7K 5% 1/4W F	< VIBRATOR >			
R341	1-247-876-11	CARBON	75K 5% 1/4W	X321	1-579-175-11	VIBRATOR, CERAMIC (10MHz)	
R342	1-247-876-11	CARBON	75K 5% 1/4W	*****			
R343	1-247-876-11	CARBON	75K 5% 1/4W	*	1-638-731-11	OPEN/UP SW BOARD	
R344	1-247-876-11	CARBON	75K 5% 1/4W	*****			
R345	1-249-423-11	CARBON	3.3K 5% 1/4W F	< CONNECTOR >			
R346	1-249-424-11	CARBON	3.9K 5% 1/4W F	CN705	1-573-383-11	PIN, CONNECTOR (PC BOARD) 2P	
R347	1-249-415-11	CARBON	680 5% 1/4W F	< SWITCH >			
R348	1-247-834-11	CARBON	1.3K 5% 1/4W	S702	1-571-300-21	SWITCH, ROTARY (OPEN/UP DET)	
R351	1-249-441-11	CARBON	100K 5% 1/4W	*****			
R352	1-249-441-11	CARBON	100K 5% 1/4W	*	1-638-729-11	TABLE MOTOR BOARD	
R353	1-249-441-11	CARBON	100K 5% 1/4W	*****			
R355	1-249-425-11	CARBON	4.7K 5% 1/4W F	< CAPACITOR >			
R356	1-249-425-11	CARBON	4.7K 5% 1/4W F	C704	1-161-375-00	CERAMIC 0.0022uF 20% 50V	
R357	1-249-425-11	CARBON	4.7K 5% 1/4W F	< CONNECTOR >			
R358	1-249-425-11	CARBON	4.7K 5% 1/4W F	* CN707	1-573-044-11	SOCKET, CONNECTOR 5P	
R359	1-249-417-11	CARBON	1K 5% 1/4W F	< DIODE >			
R360	1-249-417-11	CARBON	1K 5% 1/4W F	D701	8-719-970-19	DIODE GP-1A521	
R362	1-249-417-11	CARBON	1K 5% 1/4W F	< MOTOR >			
R363	1-249-417-11	CARBON	1K 5% 1/4W F	M701	A-4604-585-A	MOTOR ASSY, ROTARY (TABLE)	
R365	1-249-417-11	CARBON	1K 5% 1/4W F	< RESISTOR >			
R366	1-249-417-11	CARBON	1K 5% 1/4W F	R701	1-249-416-11	CARBON 820 5% 1/4W F	
R367	1-249-417-11	CARBON	1K 5% 1/4W F	*****			
R368	1-249-417-11	CARBON	1K 5% 1/4W F				
R370	1-249-390-11	CARBON	5.6 5% 1/6W F				
R371	1-247-852-11	CARBON	7.5K 5% 1/4W				
R372	1-247-852-11	CARBON	7.5K 5% 1/4W				
R373	1-247-852-11	CARBON	7.5K 5% 1/4W				
R374	1-247-852-11	CARBON	7.5K 5% 1/4W				
R375	1-247-864-11	CARBON	24K 5% 1/4W				
R376	1-247-864-11	CARBON	24K 5% 1/4W				
R377	1-247-864-11	CARBON	24K 5% 1/4W				
R378	1-247-864-11	CARBON	24K 5% 1/4W				
R379	1-249-419-11	CARBON	1.5K 5% 1/4W F				
R380	1-249-419-11	CARBON	1.5K 5% 1/4W F				
R381	1-249-419-11	CARBON	1.5K 5% 1/4W F				
R382	1-249-419-11	CARBON	1.5K 5% 1/4W F				
R383	1-249-441-11	CARBON	100K 5% 1/4W				
R384	1-249-441-11	CARBON	100K 5% 1/4W				

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

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
		MISCELLANEOUS *****				***** HARDWARE LIST *****	
5	1-765-431-11	WIRE (FLAT TYPE) (36 CORE)		#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
64	1-537-645-11	JUMPER, FILM (WITH TERMINAL)		#2	7-685-647-79	SCREW, TAPPING	
△75	1-574-358-31	CORD, POWER (WITH CONNECTOR) (AUS)		#3	7-682-961-01	SCREW +PSW 4X8	
△76	1-575-651-21	CORD, POWER (AEP)		#4	7-685-136-19	SCREW +P 2.6X12 TYPE2 NON-SLIT	
△77	1-696-027-11	CORD, POWER (E)		#5	7-682-548-04	SCREW +BVTT 3X8 (S)	
△78	1-569-007-11	ADAPTER, CONVERSION 2P (E)		#6	7-682-554-04	SCREW +B 3X25	
* 106	1-452-538-11	MAGNET		#7	7-621-255-15	SCREW +P 2X3	
111	1-590-849-11	WIRE, FLAT TYPE (5 CORE)					
△156	8-848-144-11	OPTICAL PICK-UP BLOCK (KSS-240A)					
157	1-575-001-11	WIRE, FLAT TYPE (12 CORE)					
D701	8-719-970-19	DIODE GP1A521					
FL751	1-519-721-11	INDICAOR TUBE, FLUORESCENT					
M101	X-4917-523-3	MOTOR ASSY (SPINDLE)					
M102	X-4917-504-1	MOTOR ASSY (SLED)					
M701	A-4604-585-A	MOTOR ASSY, ROTARY (TABLE)					
M702	A-4604-834-A	MOTOR ASSY, LOADING					
S101	1-572-085-11	SWITCH, LEAF (LIMIT)					
S701	1-572-713-11	SWITCH, PUSH (WITH CONNECTOR) (DOWN DET)					
△SW301	1-572-675-11	SWITCH, POWER VOLTAGE CHANGE (E)					
△T301	1-423-554-11	TRANSFORMER, POWER (AEP, AUS)					
△T301	1-423-555-11	TRANSFORMER, POWER (E)					

		ACCESSORIES & PACKING MATERIALS *****					
	1-558-271-11	CORD, CONNECTION (AUDIO 108CM) (AEP)					
*	3-681-263-11	SADDLE, WIRE (AEP)					
	3-758-344-41	MANUAL, INSTRUCTION (GERMAN, DUTCH, ITALIAN, PORTUGUESE) (AEP)					
	4-944-040-01	CUSHION (FRONT)					
	4-944-041-01	CUSHION (REAR)					
*	4-958-814-01	CUSHION (FRONT) (AEP)					
*	4-958-815-01	CUSHION (REAR) (AEP)					
*	4-965-446-01	INDIVIDUAL CARTON (AEP)					

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

CDP-C433M

SONY[®] SERVICE MANUAL

*AEP Model
E Model
Australian Model*

CORRECTION-1

Correct your service manual as shown below.

 : indicates corrected portion.

Page	INCORRECT	CORRECT
42	Part No. 9-959-478-11	Part No. 9-959-560-11

