3M5F-18C821

(CDX-5F821N/5F821R)

SERVICE MANUAL

AEP Model
UK Model

Ver 1.0 2002.08

- CDX-5F821N VERSION: –DB
- CDX-5F821R VERSION: –AB

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COMPACT DISC MECHANISM

9-874-104-01
2002H0500-1

Sony Corporation
e Vehicle Company
Published by Sony Engineering Corporation

SONY®

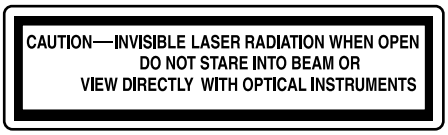
SERVICING NOTES

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

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.



This label is located on the drive unit's internal chassis.

When replacing the main chassis assy of mechanism deck which have the "CAUTION LABEL" attached, please be sure to put a new CAUTION LABEL (3-223-913-11) to the main chassis assy.

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.

Flexible Circuit Board Repairing

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

TEST DISC

This set can playback a CD-R, CD-RW for audio use. When test this set, use the following test disc.
Test disc for CD-R: TCD-R082LMT (Part No.: J-2502-063-1)
Test disc for CD-RW: TCD-W082L (Part No.: J-2502-063-2)

SAFETY-RELATED COMPONENT WARNING!!

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

SECTION 1
DISASSEMBLY

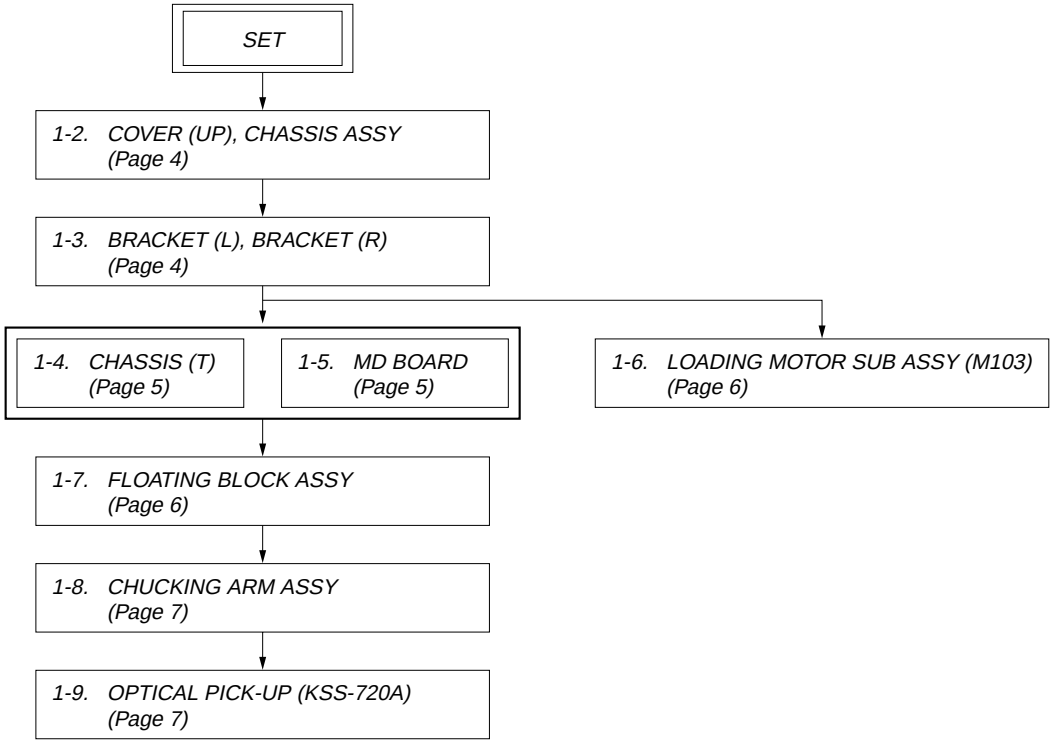
• This set can be disassembled in the order shown below.

1-1. DISASSEMBLY FLOW

Note 1: *The process described in ⊟ can be performed in any order.*

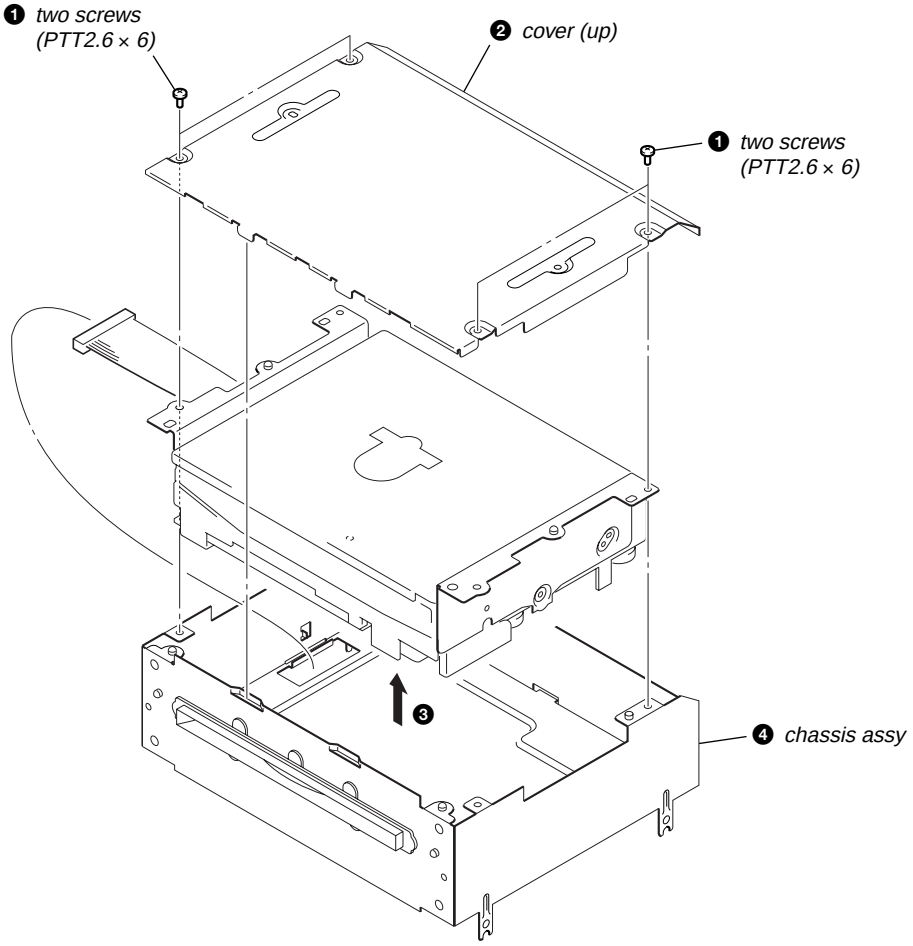
Note 2: *Without completing the process described in ⊟, the next process can not be performed.*

Note 3: *Illustration of disassembly is omitted.*

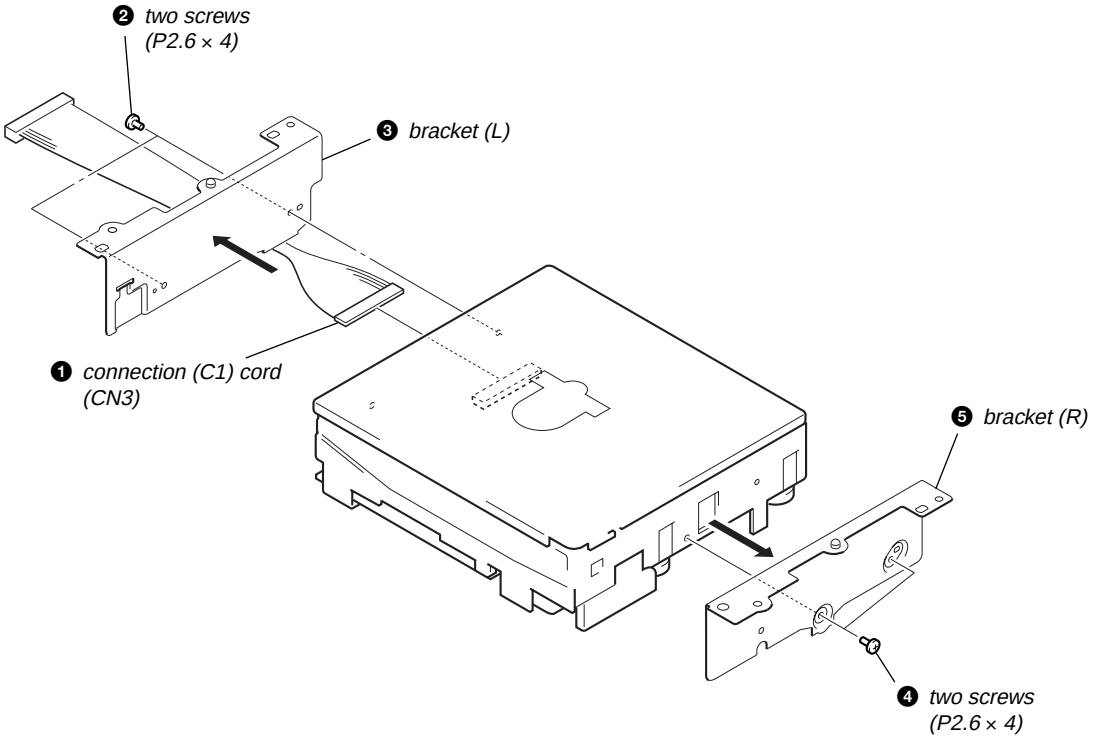


Note: Follow the disassembly procedure in the numerical order given.
Note: Screws and washers cannot be re-used.
Please replace to brand-new ones once screws and washers are removed.

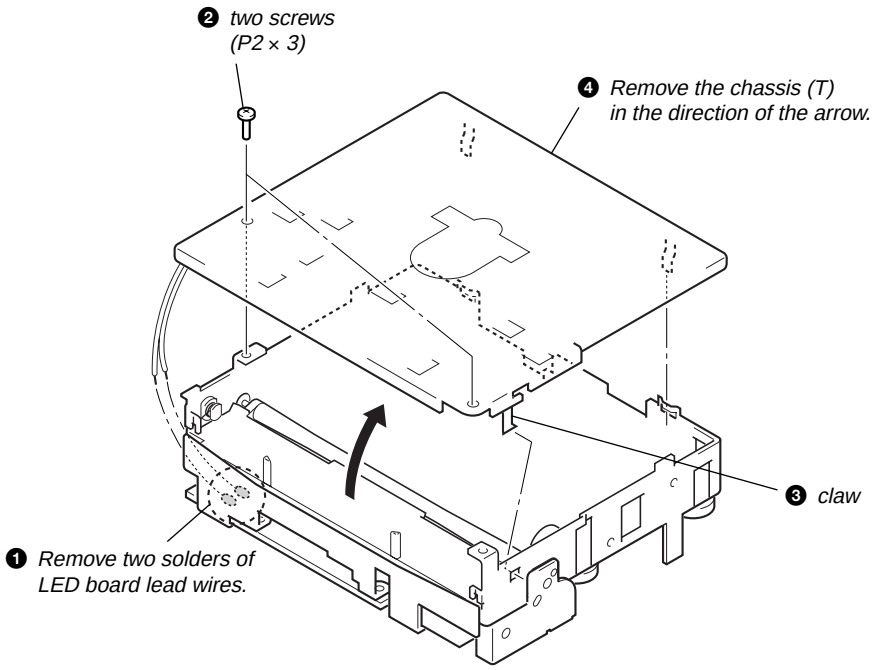
1-2. COVER (UP), CHASSIS ASSY



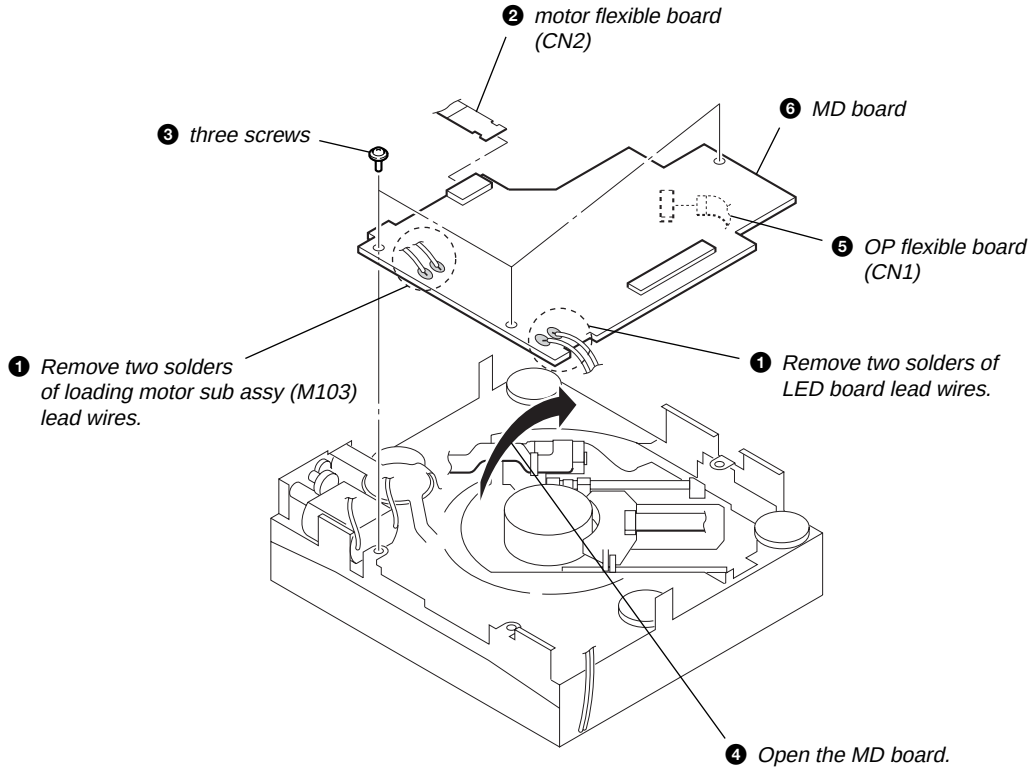
1-3. BRACKET (L), BRACKET (R)



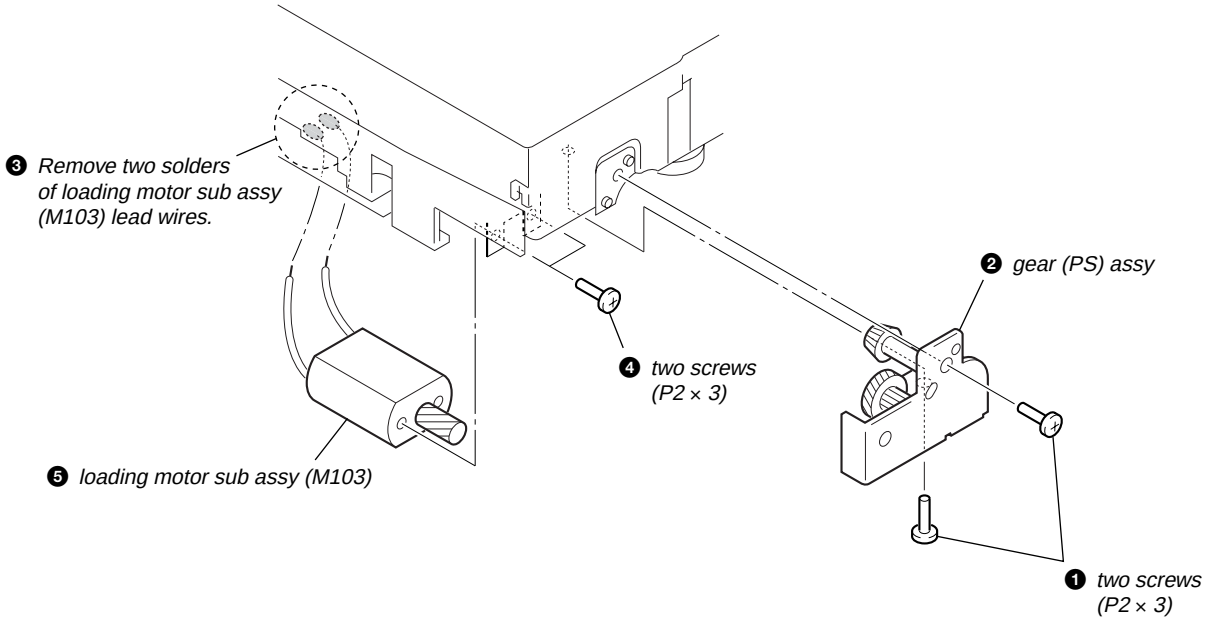
1-4. CHASSIS (T)



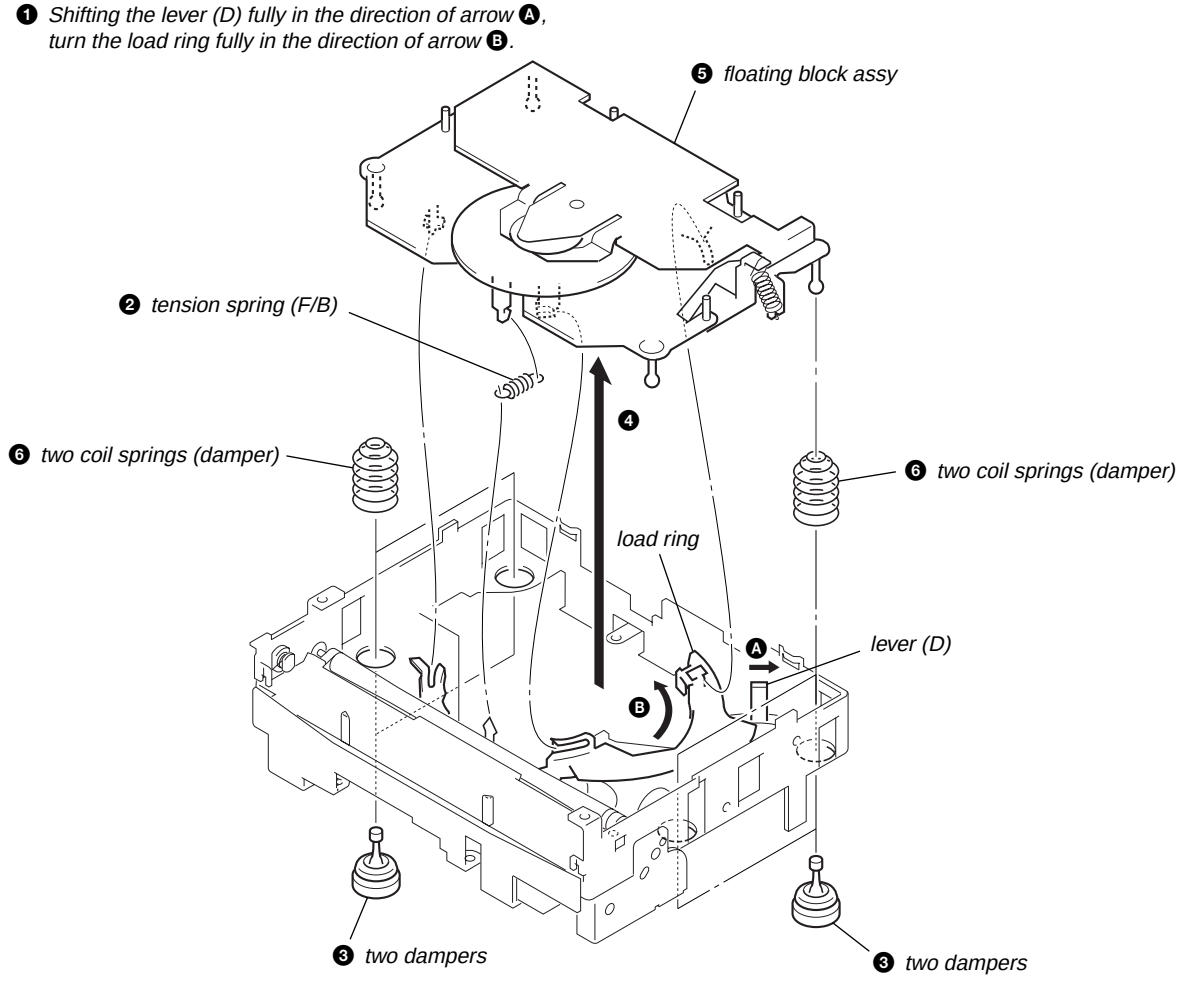
1-5. MD BOARD



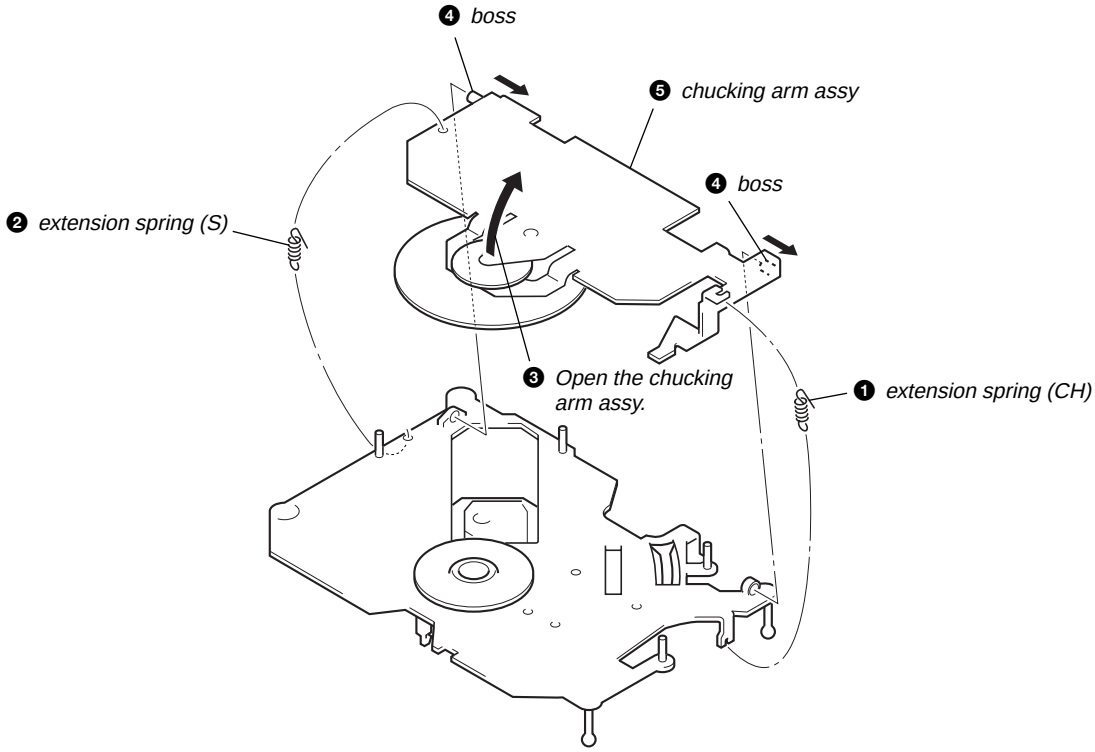
1-6. LOADING MOTOR SUB ASSY (M103)



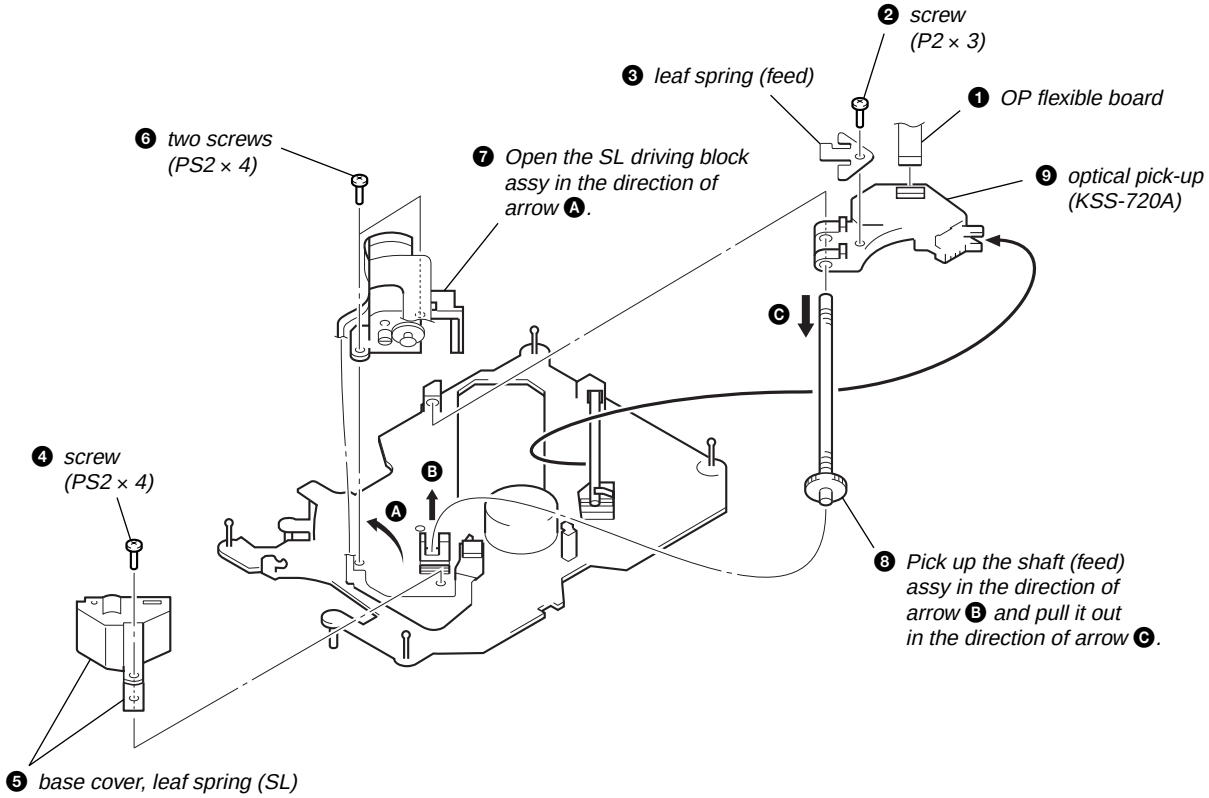
1-7. FLOATING BLOCK ASSY



1-8. CHUCKING ARM ASSY



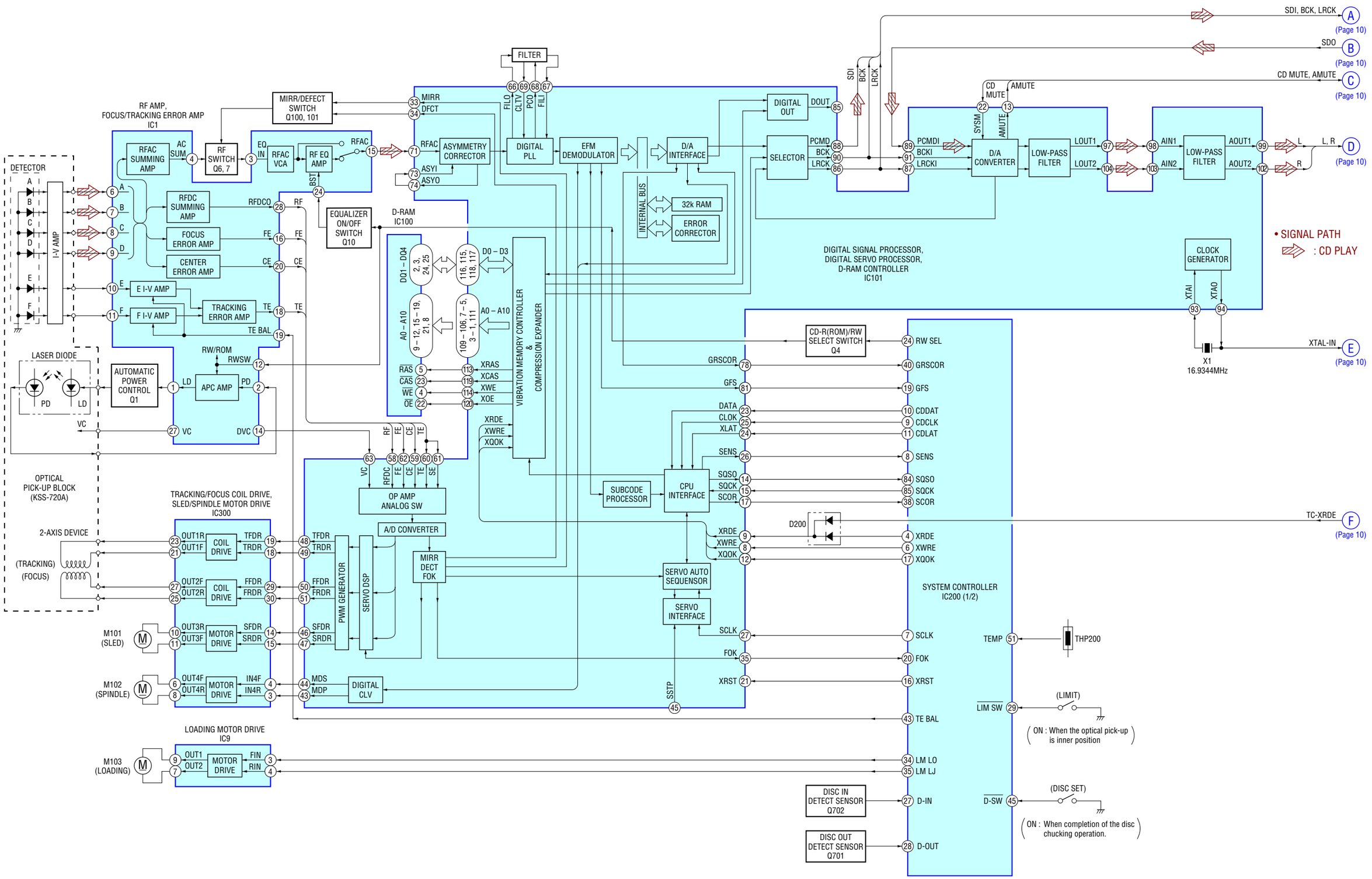
1-9. OPTICAL PICK-UP (KSS-720A)



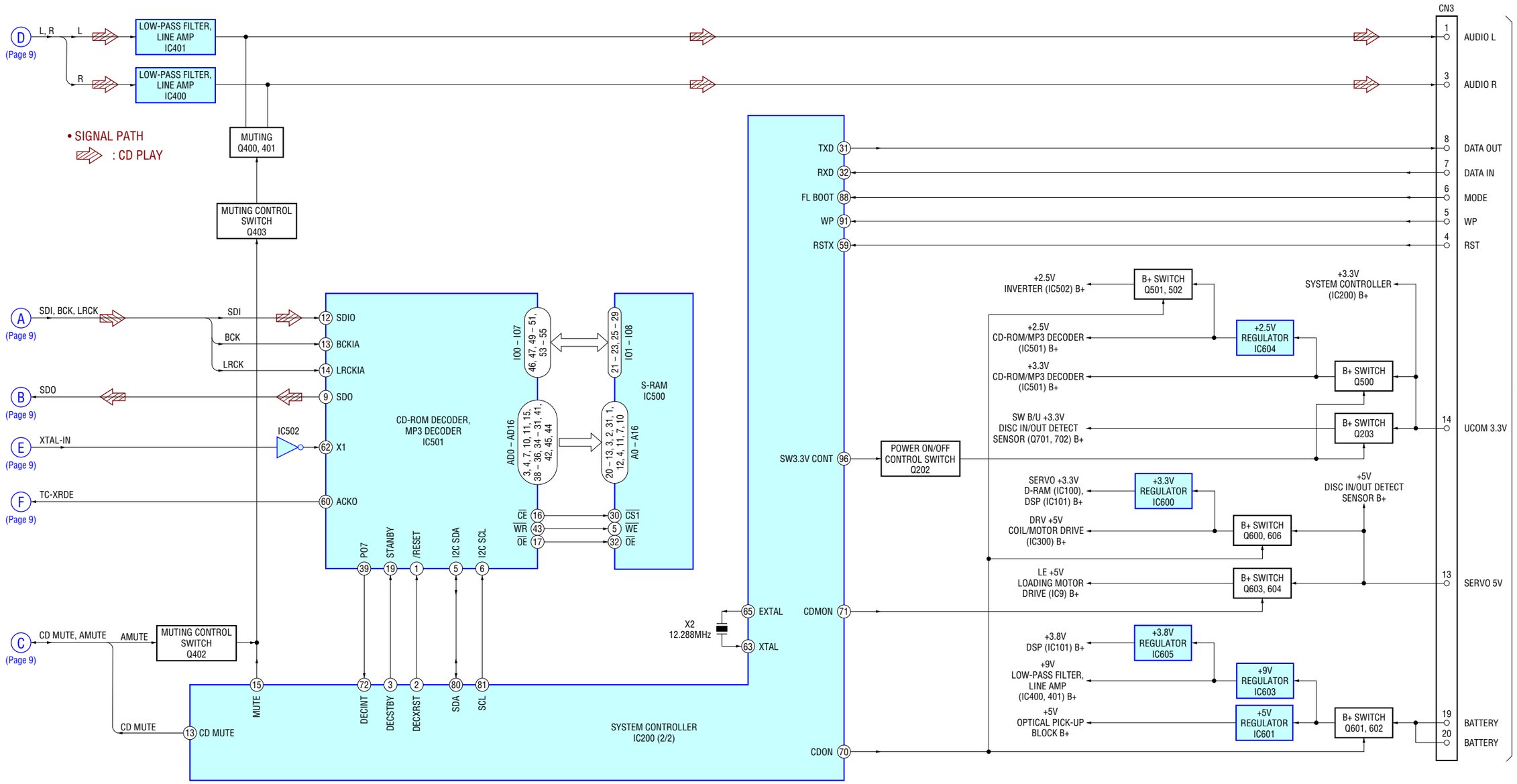
MEMO

SECTION 2
DIAGRAMS

2-1. BLOCK DIAGRAM – SERVO Section –



2-2. BLOCK DIAGRAM – MAIN Section –



2-3. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note on Printed Wiring Board:

- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- △ : internal component.
- ▬ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

Caution:	
Pattern face side: (Conductor Side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side)	Parts on the parts face side seen from the parts face are indicated.

- MD board is multi-layer printed board. However, the patterns of intermediate-layer have not been included in diagram.

Note on Schematic Diagram:

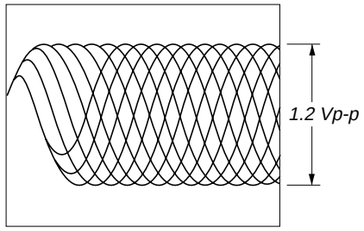
- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.

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

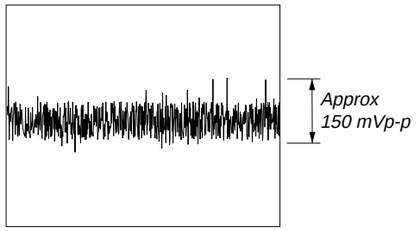
- ▬ : B+ Line.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark : CD PLAY
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Power voltage is fed with jig.
- Signal path.
  ⇨ : CD PLAY

• Waveforms
– MD Board –

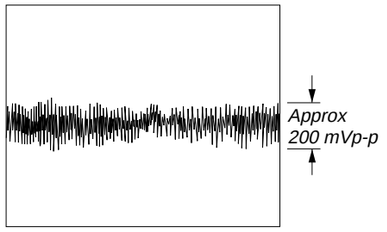
❶ IC1 ⑮ (RFAC), IC101 ⑦① (RFAC)



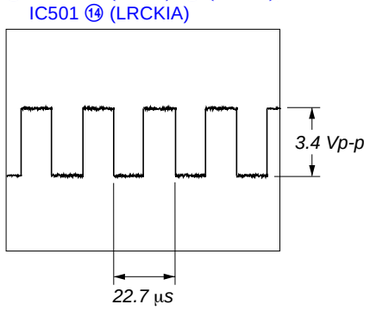
❷ IC1 ⑯ (FE), IC101 ⑥② (FE)



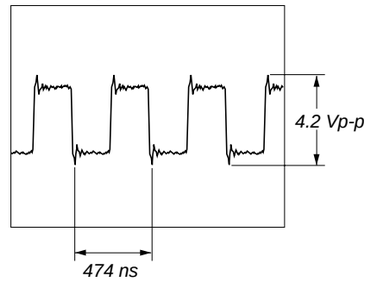
❸ IC1 ⑱ (TE), IC101 ⑥⓪ (TE)



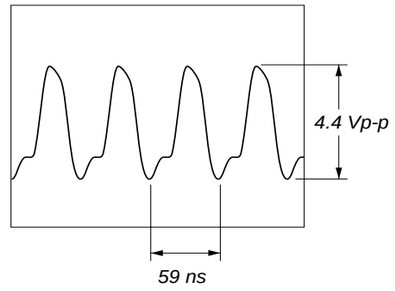
❹ IC101 ⑧⑥ (LRCK), ⑧⑦ (LRCKI), IC501 ⑭ (LRCKIA)



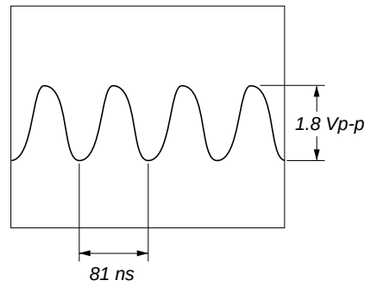
❺ IC101 ⑨⓪ (BCK), ⑨① (BCKI), IC501 ⑬ (BCKIA)



❻ IC101 ⑨④ (XTAO)



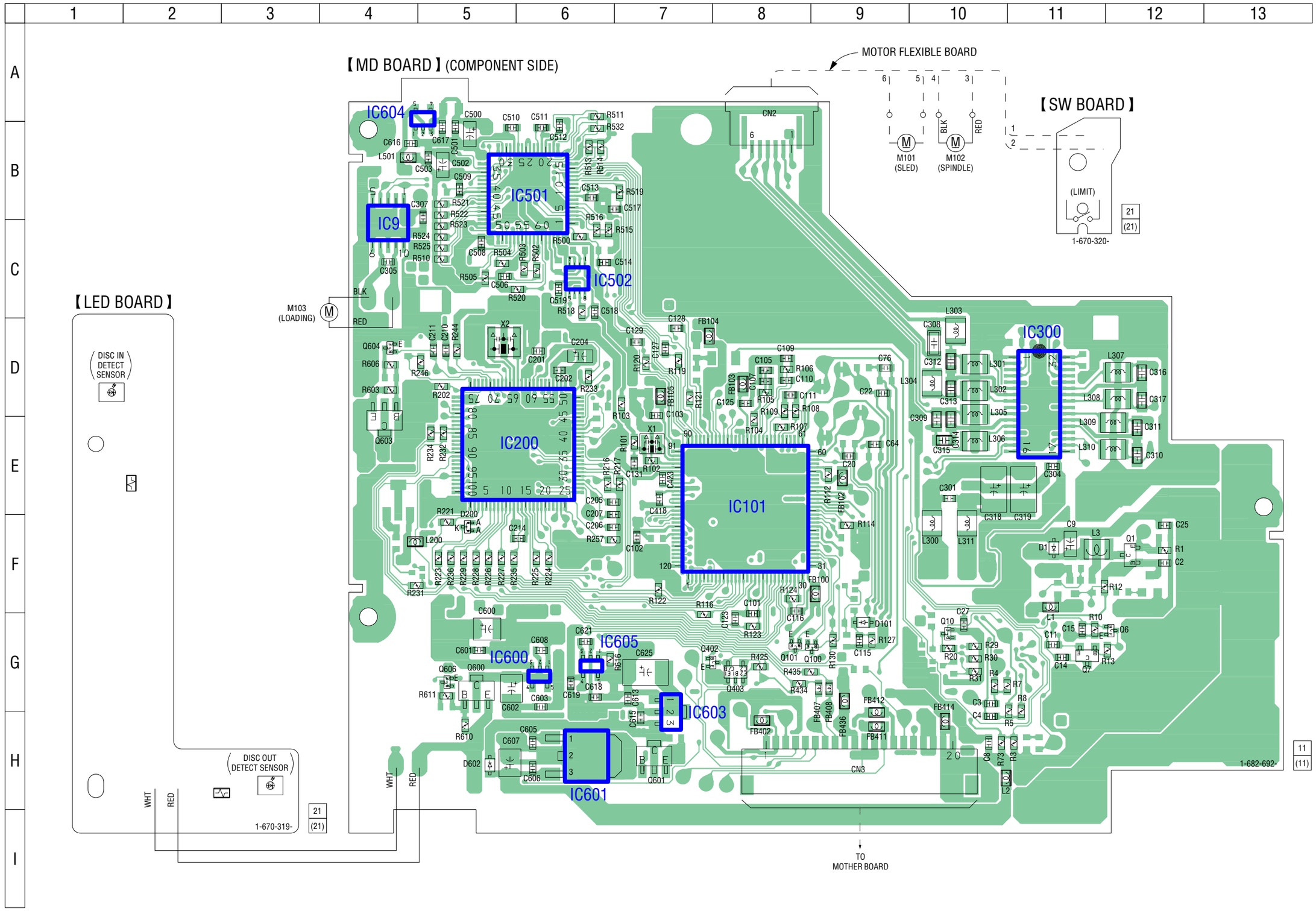
❼ IC200 ⑥⑤ (EXTAL)



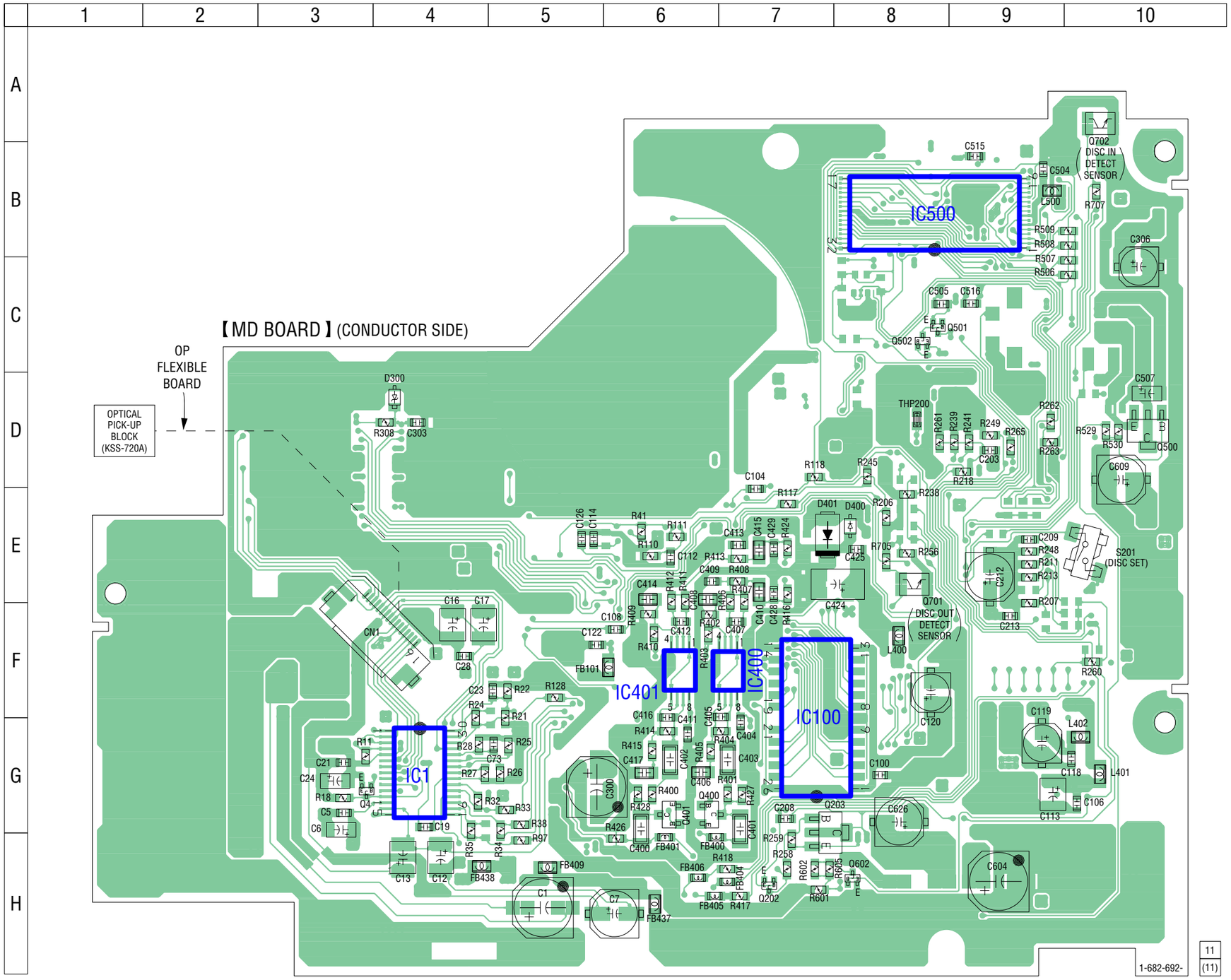
2-4. PRINTED WIRING BOARDS – MD (Component Side)/LED/SW Boards –

- **Semiconductor Location**

Ref. No.	Location
D1	F-11
D101	G-9
D200	F-5
D602	H-5
IC9	C-4
IC101	E-8
IC200	E-6
IC300	D-11
IC501	B-6
IC502	C-6
IC600	G-6
IC601	H-6
IC603	H-7
IC604	A-5
IC605	G-6
Q1	F-12
Q6	G-12
Q7	G-11
Q10	G-10
Q100	G-9
Q101	G-8
Q402	G-7
Q403	G-8
Q600	G-5
Q601	H-7
Q603	E-4
Q604	D-4
Q606	G-5



2-5. PRINTED WIRING BOARDS – MD Board (Conductor Side) –



- **Semiconductor Location**

Ref. No.	Location
D300	D-4
D400	E-8
D401	E-7
IC1	G-4
IC100	F-7
IC400	F-7
IC401	F-6
IC500	B-8
Q4	G-3
Q202	H-7
Q203	G-7
Q400	G-6
Q401	G-6
Q500	D-10
Q501	C-8
Q502	C-8
Q602	H-8
Q701	E-8
Q702	A-10

2-6. SCHEMATIC DIAGRAM – MD Board (1/4) –

• See page 11 for Waveforms. • See page 18 for IC Block Diagram.

【MD BOARD】(1/4)

OPTICAL PICK-UP BLOCK (KSS-720A)

OP FLEXIBLE BOARD

CN1 16P

F-	1
T-	2
T+	3
F+	4
E	5
F	6
VCC	7
VC	8
VR	9
PD	10
LD	11
GND	12
A	13
C	14
B	15
D	16

TP1 F- TP2 T- TP3 T+ TP4 F+ TP5 TP6 TP7 TP8 TP34 TP9 TP10 TP11 TP12 TP13 TP14 TP15

TP27 TP16 TP26

Q6 DTC144EE RF SWITCH

Q1 2SB624T1-B AUTOMATIC POWER CONTROL

Q7 2SB624T1-B RF SWITCH

Q10 DTC114EE EQUALIZER ON/OFF SWITCH

Q4 DTC114EE CD-R(ROM)/RW SELECT SWITCH

IC1 IC B/D

RF AMP, FOCUS/TRACKING ERROR AMP

IC1 CXA2581N T4

LD DC_OFST PD RFDCI EQ_IN RFDCO AC_SUM VC GND RFC A VFC B BST C RFG D VCC E CEI F CE RWSW TE_BAL DVCC TE DVC FE RFAC FE

Y1

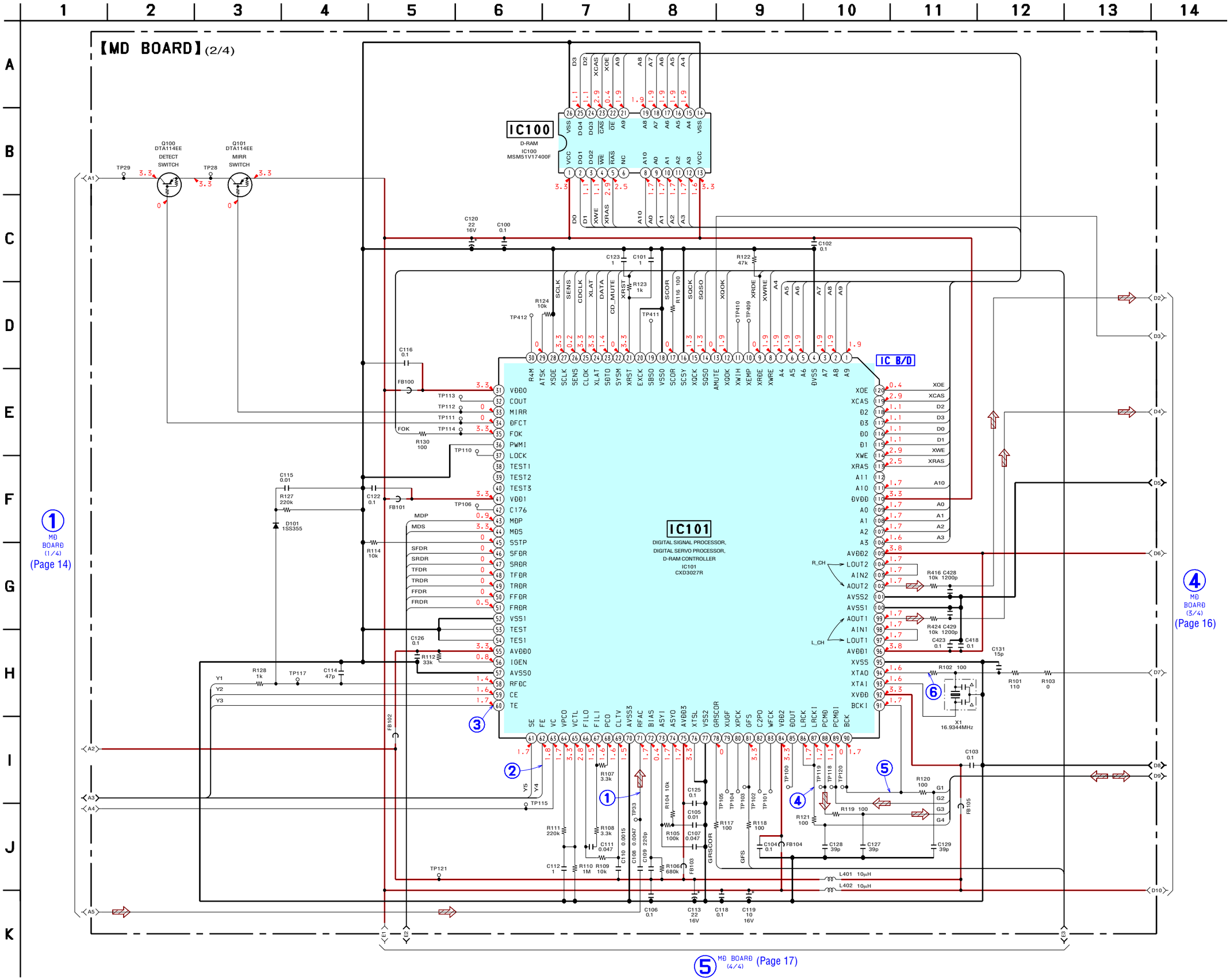
1 MD BOARD (2/4) (Page 15)

2 MD BOARD (3/4) (Page 16)

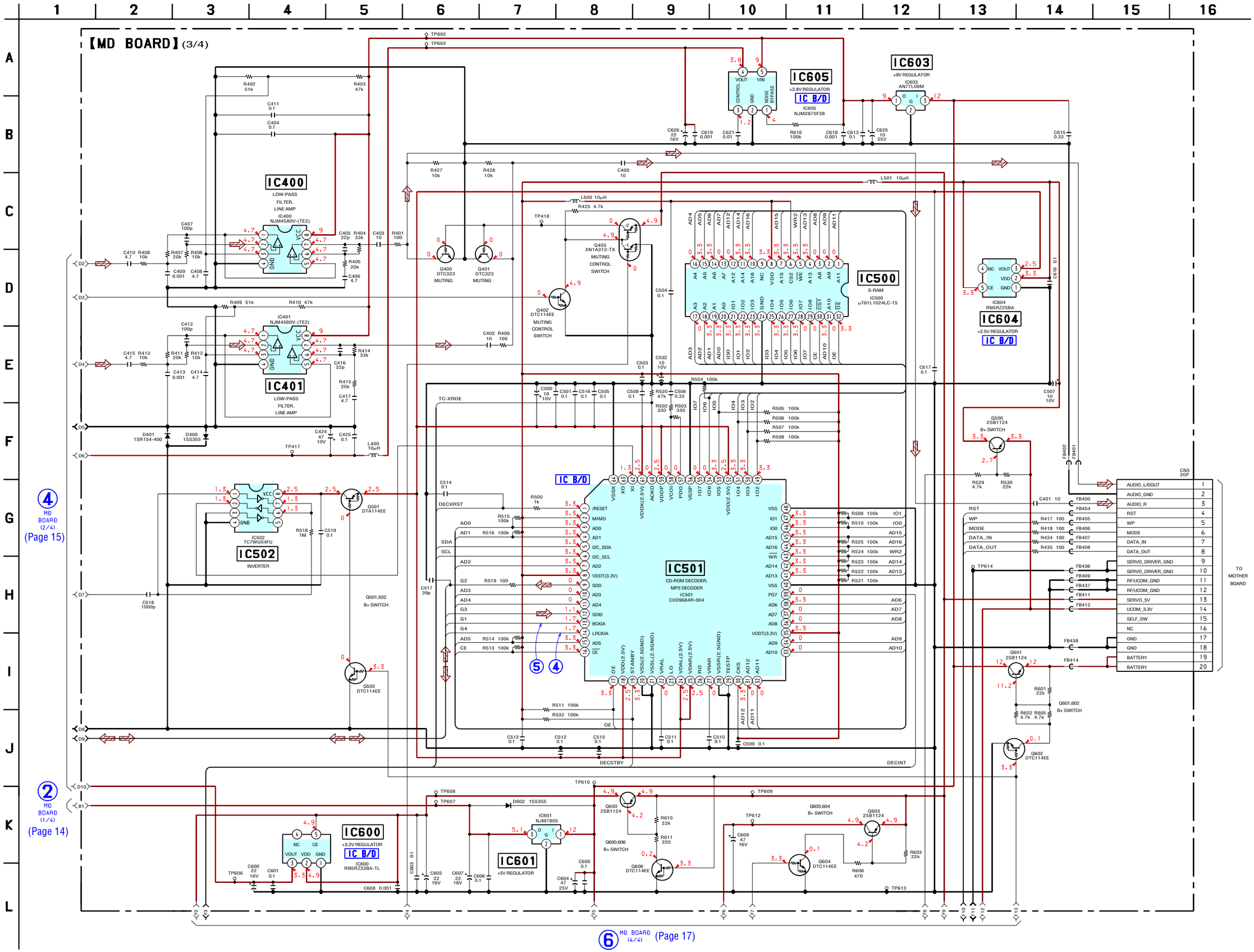
3 MD BOARD (4/4) (Page 17)

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

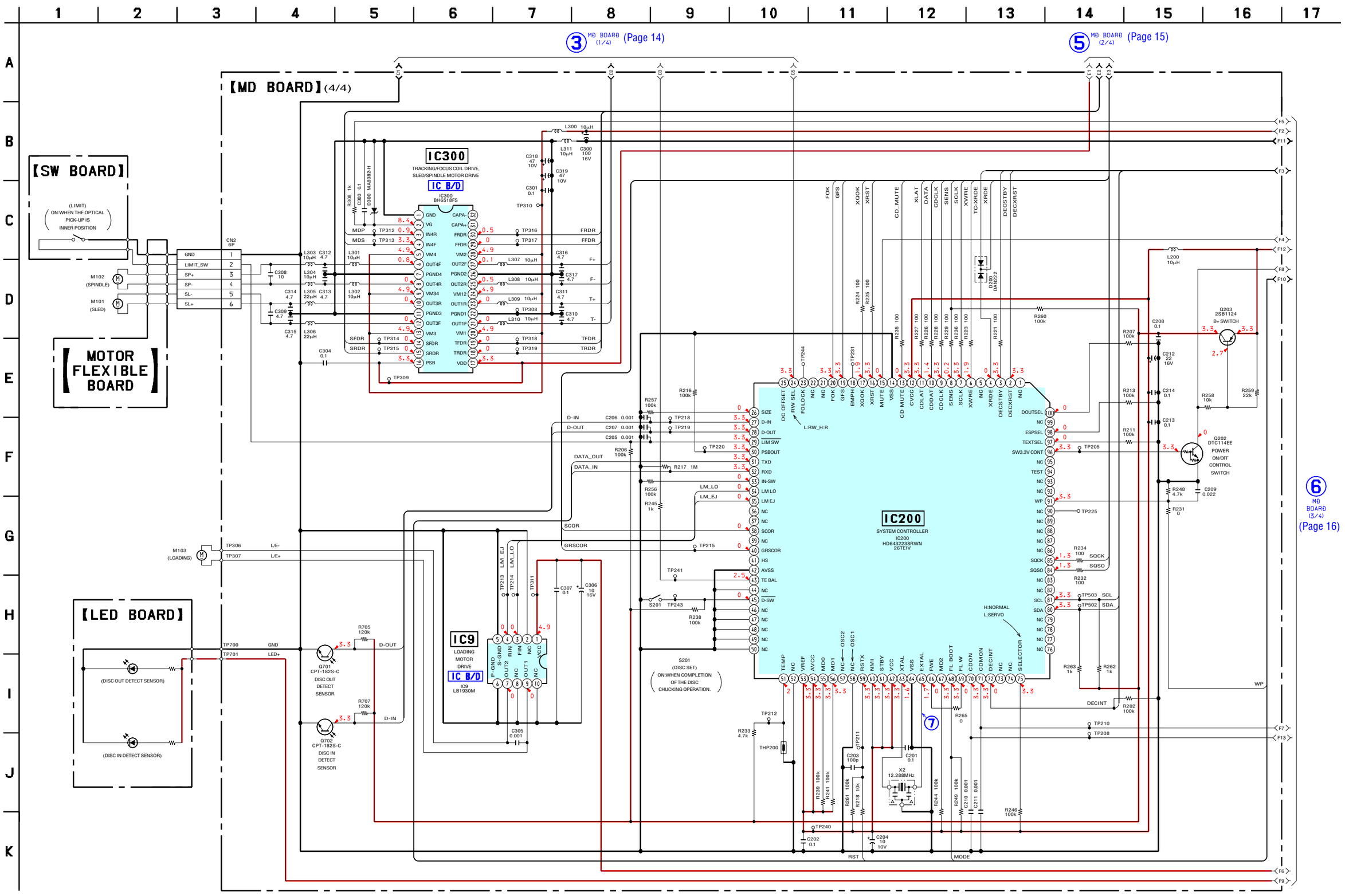
2-7. SCHEMATIC DIAGRAM – MD Board (2/4) – • See page 11 for Waveforms. • See page 18 for IC Block Diagram.



2-8. SCHEMATIC DIAGRAM – MD Board (3/4) – • See page 11 for Waveforms. • See page 18 for IC Block Diagrams.



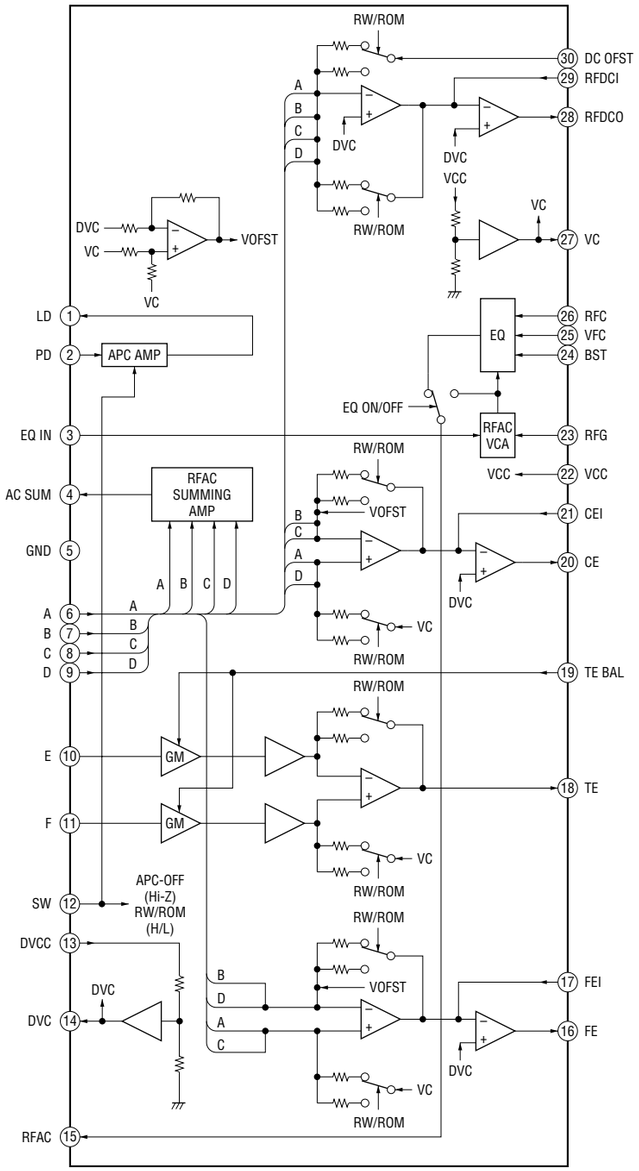
2-9. SCHEMATIC DIAGRAM – MD (4/4)/LED/SW Boards – • See page 11 for Waveform. • See page 18 for IC Block Diagrams.



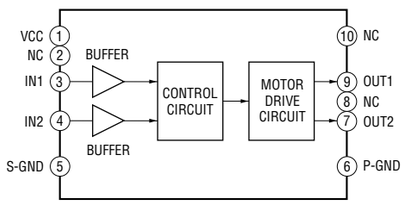
- **IC Block Diagrams**

– MD Board –

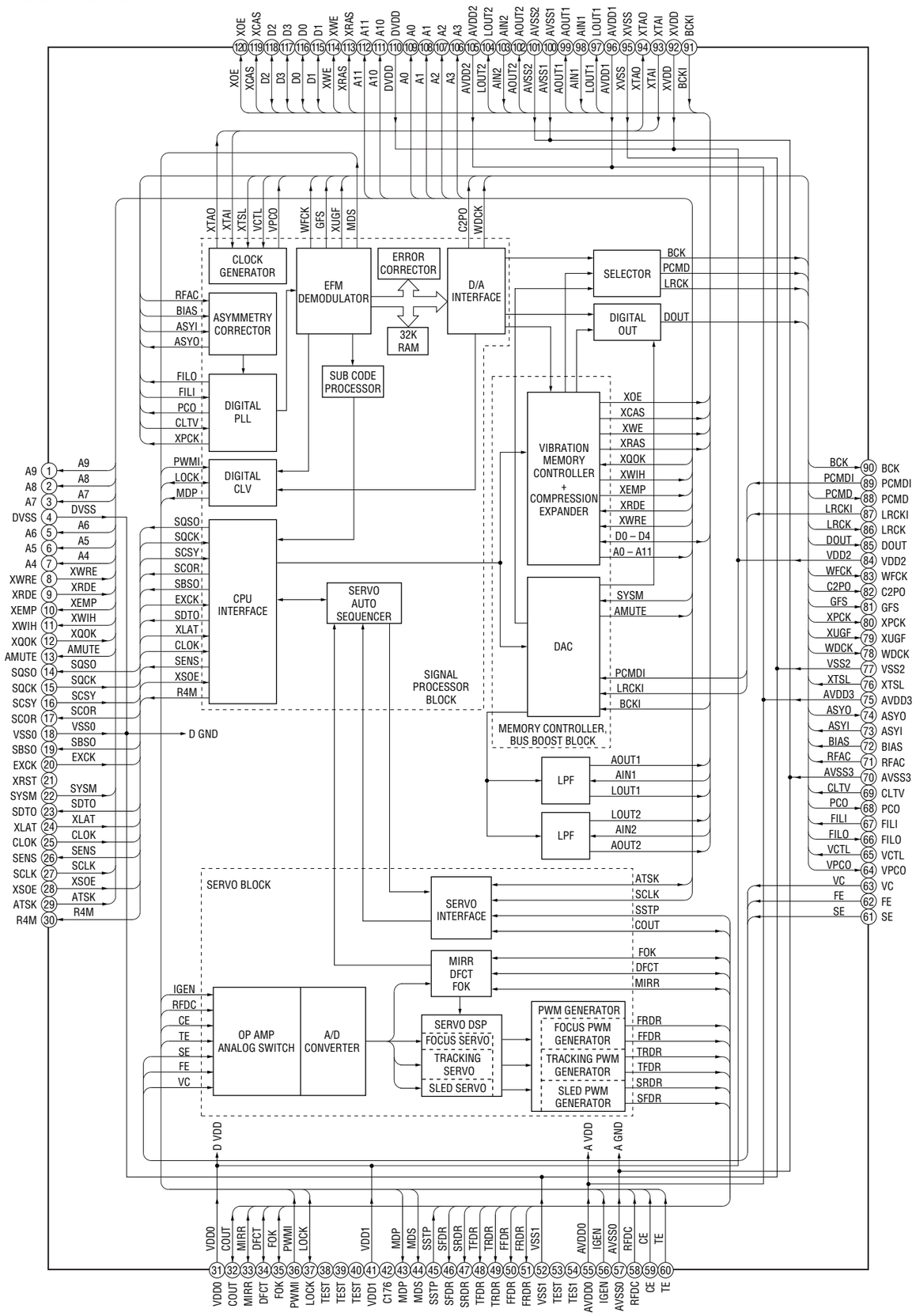
IC1 CXA2581N-T4



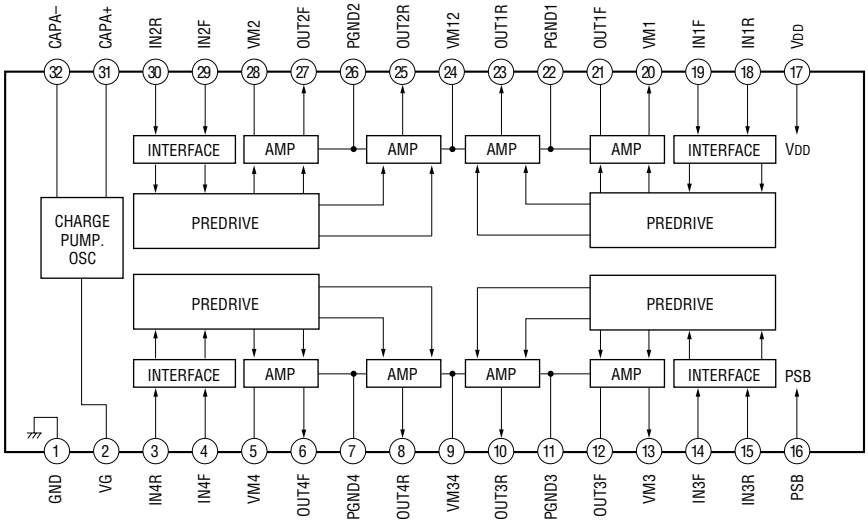
IC9 LB1930M-TLM



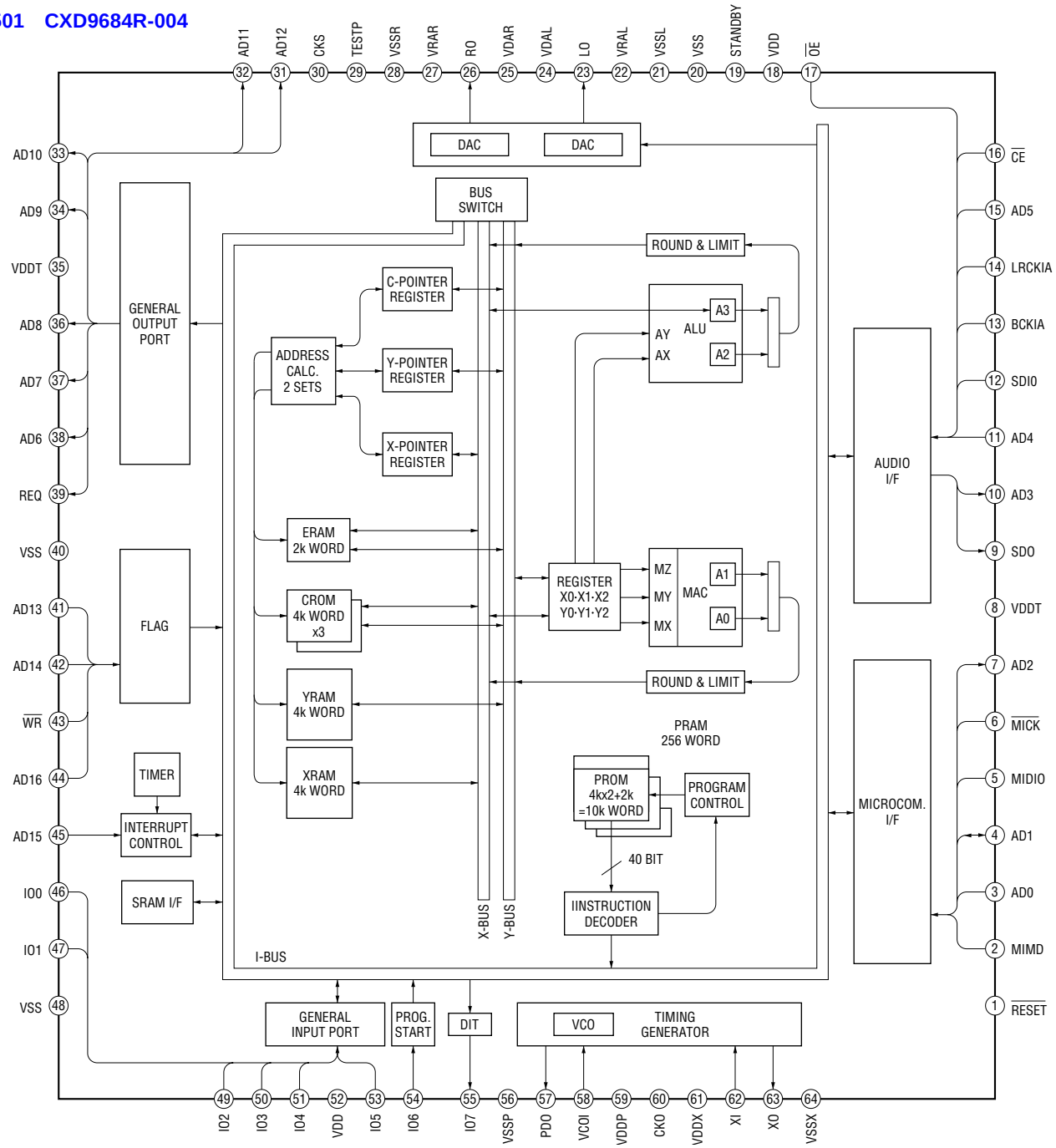
IC101 CXD3027R



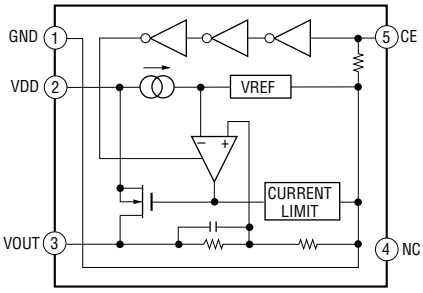
IC300 BH6518FS-E2



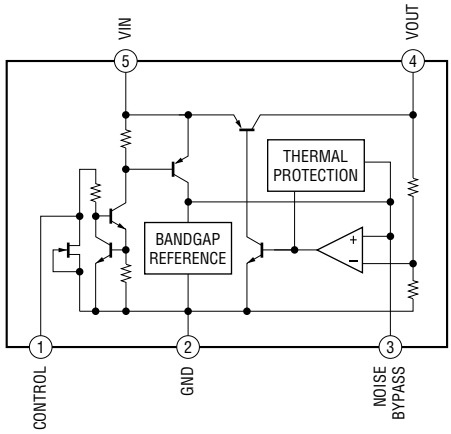
IC501 CXD9684R-004



IC600 RN5RZ33BA-TL
IC604 RN5RZ25BA-TL



IC605 NJM2870F38 (TE2)



2-10. IC PIN FUNCTION DESCRIPTION

• MD BOARD IC200 HD6432238RWN26TEIV (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	NC	O	Not used
2	DECXRST	O	Reset signal output to the CD-ROM/MP3 decoder "L": reset
3	DECSTBY	O	Standby mode control signal output to the CD-ROM/MP3 decoder "H": standby
4	XRDE	O	Read enable signal output to the digital signal processor
5	NC	O	Not used
6	XWRE	O	Write enable signal output to the digital signal processor
7	SCLK	O	Serial data reading clock signal output to the digital signal processor
8	SENS	I	SENS signal input from the digital signal processor
9	CDCLK	O	Serial data transfer clock signal output to the digital signal processor
10	CDDAT	O	Serial data output to the digital signal processor
11	CDLAT	O	Serial data latch pulse signal output to the digital signal processor
12	CVCC	—	Power supply terminal (+3.3V) (for system)
13	CD MUTE	O	Muting on/off control signal output to the digital signal processor "H": muting on
14	VSS	—	Ground terminal
15	MUTE	O	Audio muting on/off control signal output "H": muting on
16	XRST	O	Reset signal output to the digital signal processor "L": reset
17	XQOK	O	Subcode Q OK pulse signal output to the digital signal processor
18	EMPH	O	Emphasis control signal output terminal "H": Emphasis on Not used
19	GFS	I	Guard frame sync signal input from the digital signal processor
20	FOK	I	Focus OK signal input from the digital signal processor
21, 22	NC	O	Not used
23	FOLOCK	O	Lens focus direction fixed signal output terminal Not used
24	RW SEL	O	CD-R/RW selection signal output "L": CD-R (ROM), "H": CD-RW
25	DC OFFSET	O	EQ cut off selection signal output terminal "L": CD-R (ROM), "H": CD-RW Not used
26	SIZE	I	Disc size (8 cm/12 cm) detect signal input terminal Not used
27	D-IN	I	Disc loading completion detect signal input from the photo sensor "H": disc loading completed
28	D-OUT	I	Disc out detect signal input from the photo sensor "H": disc is present
29	$\overline{\text{LIM SW}}$	I	Sled limit in detect switch input terminal "L": When the optical pick-up is inner position
30	PSBOUT	O	Muting on/off control signal output to the coil/motor driver "L": muting on Not used
31	TXD	O	PC/MC connecting output terminal for UART
32	RXD	I	PC/MC connecting input terminal for UART
33	IN-SW	I	Disc detection (loading in) switch input terminal Not used
34	LM LO	O	Motor drive signal (loading direction) output
35	LM EJ	O	Motor drive signal (eject direction) output
36, 37	NC	O	Not used
38	SCOR	I	Subcode sync (S0+S1) detection signal input from digital signal processor
39	NC	O	Not used
40	GRSCOR	I	Subcode sync (S0+S1) detection signal input from digital signal processor
41	HS	O	Normal/high speed playback control signal output terminal "L": high speed playback Not used
42	AVSS	—	Ground terminal (for A/D converter)
43	TE BAL	O	Tracking error balance adjustment signal output
44	NC	I	Not used

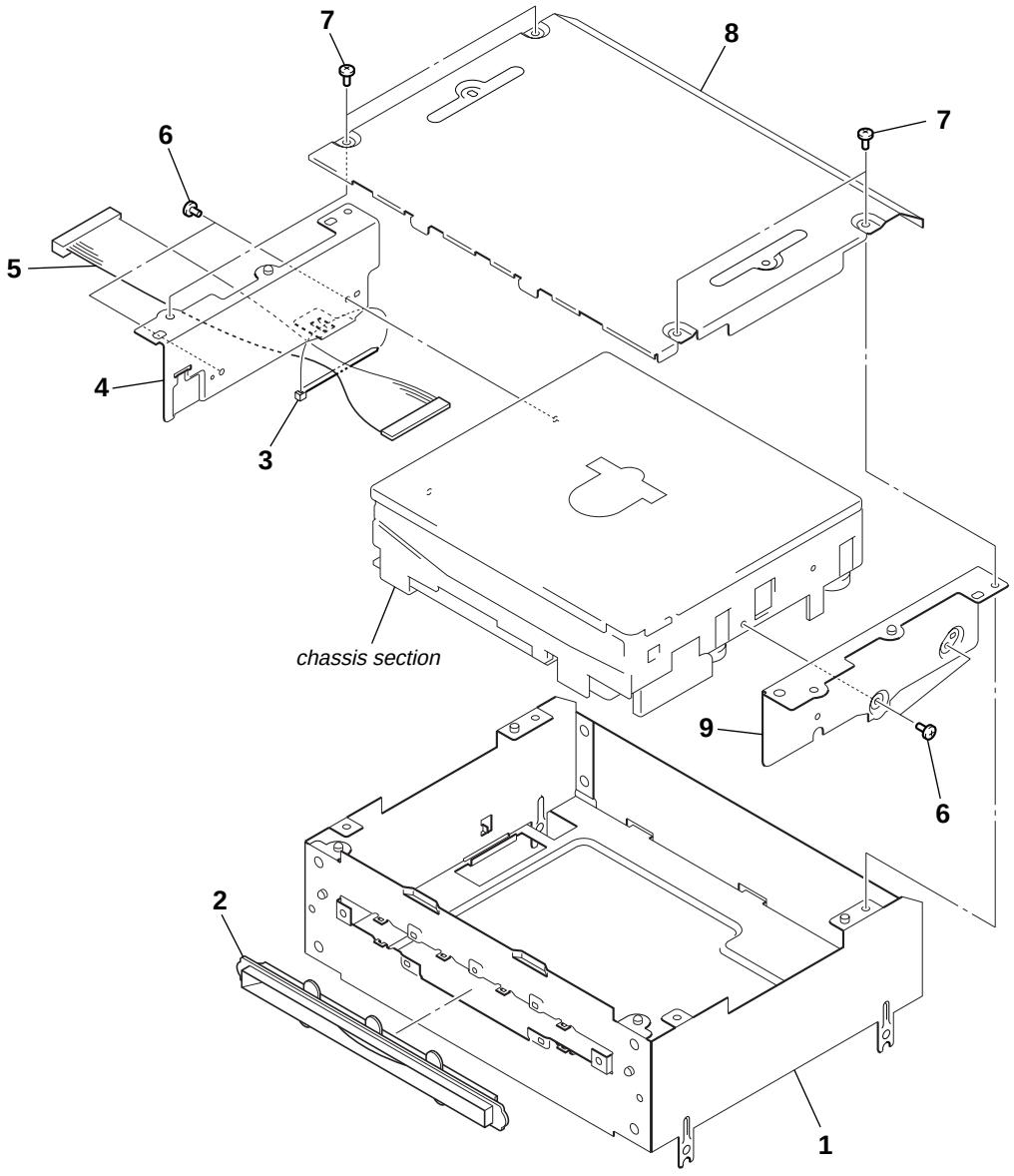
Pin No.	Pin Name	I/O	Description
45	$\overline{\text{D-SW}}$	I	Disc set detect switch input terminal "L": When completion of the disc chucking operation
46 to 50	NC	I	Not used
51	TEMP	I	Temperature sensor input terminal (A/D input)
52	NC	I	Not used
53	VREF	—	Reference voltage (+3.3V) input terminal (for A/D converter)
54	AVCC	—	Power supply terminal (+3.3V) (for A/D converter)
55, 56	MD0, MD1	I	Setting terminal for the CPU operational mode "H": single chip mode (fixed at "H" in this set)
57	OSC2	O	Sub system clock output terminal Not used
58	OSC1	I	Sub system clock input terminal Not used
59	RSTX	I	Reset signal input "L": reset For several hundreds msec. after the power supply rises, "L" is input, then it changes to "H"
60	NMI	O	Not used
61	STBY	O	Standby mode control signal output terminal Not used
62	VCC	—	Power supply terminal (+3.3V)
63	XTAL	I	Main system clock input terminal (12.288 MHz)
64	VSS	—	Ground terminal
65	EXTAL	O	Main system clock output terminal (12.288 MHz)
66	FEW	I	Flash memory data write enable signal input
67	MD2	I	Setting terminal for the CPU operational mode "H": single chip mode (fixed at "H" in this set)
68	FL BOOT	I	Flash memory data write control signal input terminal "L": flash memory data write mode
69	FL W	O	Flash memory data write enable signal output
70	CDON	O	Servo section power supply on/off control signal output "H": power on
71	CDMON	O	Loading motor drive power supply on/off control signal output "H": power on
72	DECINT	I	Interrupt signal input from the CD-ROM/MP3 decoder
73, 74	NC	O	Not used
75	SELECTOR	I	Normal/servo selection signal input terminal "L": servo, "H": normal (fixed at "H" in this set)
76 to 79	NC	O	Not used
80	SDA	I/O	I2C interface data input/output with the CD-ROM/MP3 decoder
81	SCL	O	I2C interface data transfer clock signal output to the CD-ROM/MP3 decoder
82, 83	NC	O	Not used
84	SQSO	I	Subcode Q data input from the digital signal processor
85	SQCK	O	Subcode Q data clock signal output to the digital signal processor
86 to 90	NC	O	Not used
91	WP	I	Wake up signal input "L": sleep, "H": wake up
92 to 95	NC	O	Not used
96	SW3.3V CONT	O	CD-ROM/MP3 decoder power supply on/off control signal output "H": power on
97	TEXTSEL	I	CD text mode setting terminal "L": CD text on (fixed at "L" in this set)
98	ESPSEL	I	ESP mode setting terminal "L": ESP on (fixed at "L" in this set)
99	NC	I	Not used
100	DOUTSEL	I	Digital out on/off setting terminal "L": ESP on (fixed at "L" in this set)

SECTION 3
EXPLODED VIEWS

NOTE:
- -XX and -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
- 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.
- Screws and washers cannot be re-used. Please replace to brand-new ones once screws and washers are removed.

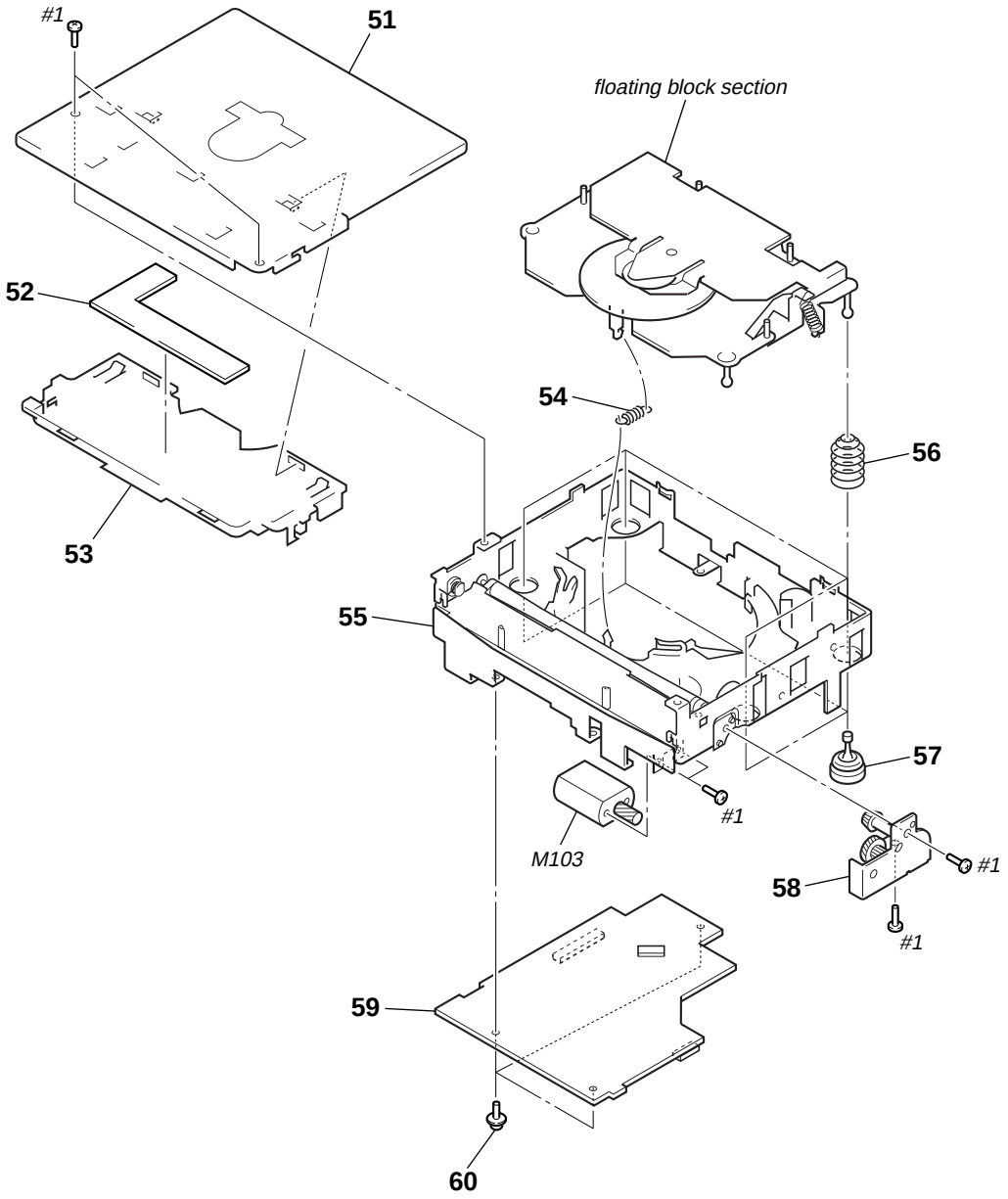
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

3-1. COVER SECTION



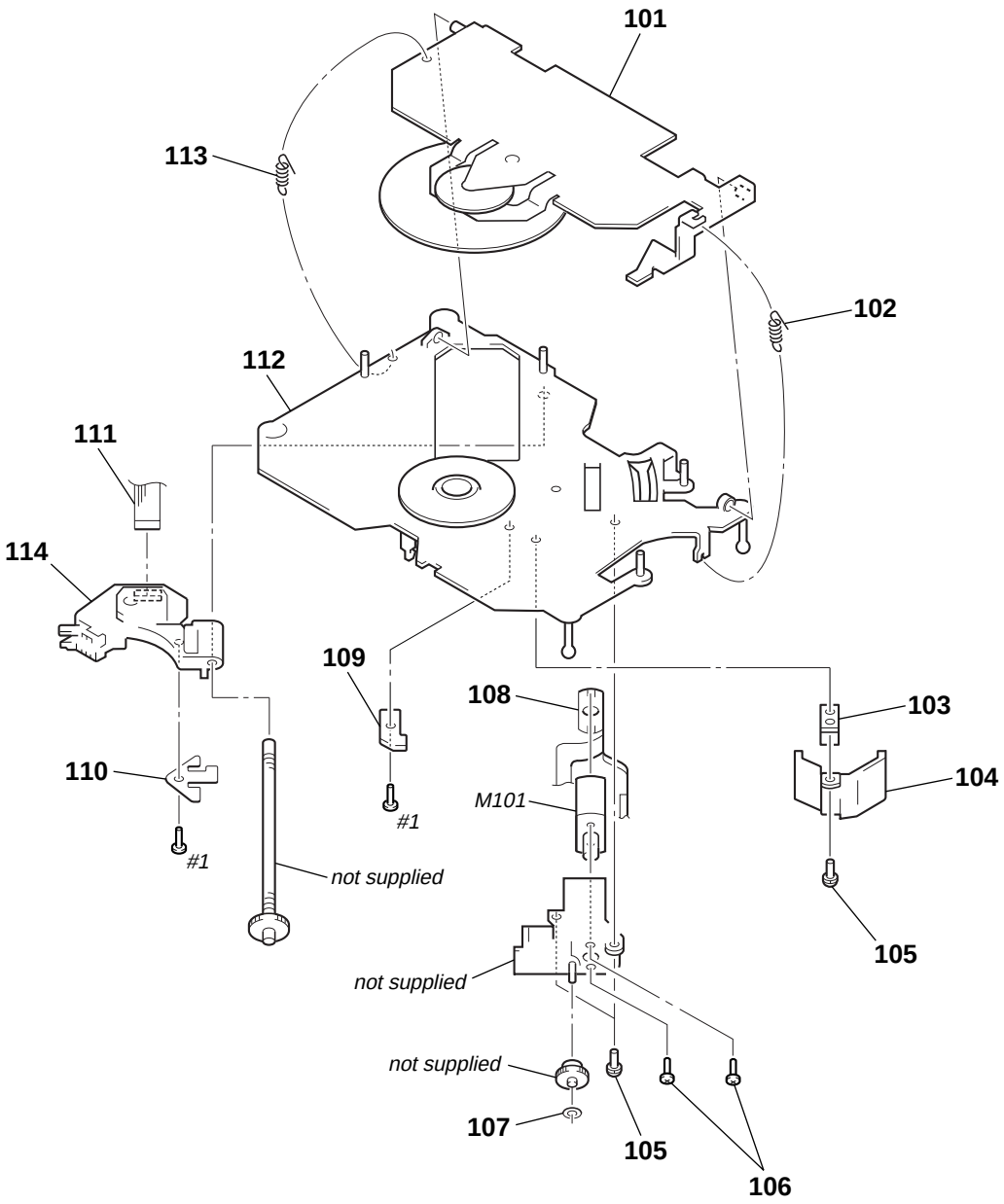
Ref. No.	Part No.	Description	Remark
* 1	X-3381-698-1	CHASSIS ASSY	
* 2	3-239-381-01	GUIDE (D-IN)	
3	3-655-653-01	BAND (TAITON), BINDING	
* 4	3-239-378-01	BRACKET (L)	
5	1-824-417-11	CORD, CONNECTION (C1)	
* 6	3-245-785-01	SCREW (+P 2.6X4)	
* 7	3-245-788-01	SCREW (+PTT 2.6X6, S)	
* 8	3-239-376-01	COVER (UP)	
* 9	3-239-379-01	BRACKET (R)	

3-2. CHASSIS SECTION



Ref. No.	Part No.	Description	Remark
* 51	3-237-483-01	CHASSIS (T)	
* 52	A-3274-207-A	LED BOARD, COMPLETE	
* 53	3-237-485-01	GUIDE (DISC)	
* 54	3-237-471-01	SPRING (F/B), TENSION COIL	
* 55	X-3381-447-1	CHASSIS (M) COMPLETE ASSY	
* 56	3-243-596-01	SPRING (DAMPER), COIL	
* 57	3-237-476-01	DAMPER	
* 58	X-3382-209-1	GEAR (PS) ASSY	
* 59	A-3283-279-A	MD BOARD, COMPLETE	
* 60	3-918-103-21	SCREW	
* M103	A-3315-498-A	LOADING MOTOR SUB ASSY	
#1	7-627-553-37	SCREW, PRECISION +P 2X3	

3-3. FLOATING BLOCK SECTION



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
* 101	X-3381-449-1	ARM ASSY, CHUCKING	
* 102	3-243-591-01	SPRING (CH), EXTENSION	
103	3-020-552-01	SPRING (SL), LEAF	
* 104	3-019-426-01	COVER, BASE	
* 105	3-245-787-01	SCREW (+PS 2X4)	
* 106	3-245-786-01	SCREW (+P 1.4X3. TYPE3)	
107	3-348-953-21	WASHER	
* 108	1-684-976-11	MOTOR FLEXIBLE BOARD	
* 109	A-3274-208-A	SW BOARD, COMPLETE	
110	3-021-502-01	SPRING (FEED), LEAF	
111	1-680-824-12	OP FLEXIBLE BOARD	
112	X-3382-659-1	CHASSIS (OPT) (SV) ASSY (including M102)	
* 113	3-243-590-01	SPRING (S), EXTENSION	
⚠114	8-820-103-12	OPTICAL PICK-UP KSS-720A/Q-N1	
M101	A-3301-796-A	MOTOR ASSY, SLED	
#1	7-627-553-37	SCREW, PRECISION +P 2X3	

SECTION 4
ELECTRICAL PARTS LIST

LED MD

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -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. . : μA. . uPA. . : μPA. .
  uPB. . : μPB. . uPC. . : μPC. .
  uPD. . : μPD. .
- CAPACITORS
  uF: μF
- COILS
  uH: μH

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

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

Ref. No.	Part No.	Description			Remark
*	A-3274-207-A	LED BOARD, COMPLETE			
		**********			
For the parts on the LED board, replace the entire mounted board.					
**********					
*	A-3283-279-A	MD BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C1	1-117-681-11	ELECT CHIP	100uF	20%	16V
C2	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3	1-115-412-11	CERAMIC CHIP	680PF	5%	25V
C4	1-115-412-11	CERAMIC CHIP	680PF	5%	25V
C5	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C6	1-104-851-11	TANTALUM CHIP	10uF	20%	10V
C7	1-137-765-21	ELECT CHIP	47uF	20%	16V
C8	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C9	1-135-149-21	TANTALUM CHIP	2.2uF	20%	10V
C11	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C12	1-119-751-11	TANTALUM CHIP	22uF	20%	16V
C13	1-119-751-11	TANTALUM CHIP	22uF	20%	16V
C14	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C15	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C16	1-119-751-11	TANTALUM CHIP	22uF	20%	16V
C17	1-119-751-11	TANTALUM CHIP	22uF	20%	16V
C19	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C20	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C21	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C22	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C23	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C24	1-107-686-11	TANTALUM CHIP	4.7uF	20%	16V
C25	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C27	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C28	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C64	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C73	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C76	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C100	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C101	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C102	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C103	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C104	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C105	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C106	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C107	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C108	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C109	1-164-816-11	CERAMIC CHIP	220PF	2%	50V
C110	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C111	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C112	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C113	1-119-751-11	TANTALUM CHIP	22uF	20%	16V
C114	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C115	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C116	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C118	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C119	1-124-779-00	ELECT CHIP	10uF	20%	16V
C120	1-137-764-21	ELECT CHIP	22uF	20%	16V
C122	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C123	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C125	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C126	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C127	1-162-922-11	CERAMIC CHIP	39PF	5%	50V
C128	1-162-922-11	CERAMIC CHIP	39PF	5%	50V
C129	1-162-922-11	CERAMIC CHIP	39PF	5%	50V
C131	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C201	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C202	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C203	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C204	1-104-851-11	TANTALUM CHIP	10uF	20%	10V
C205	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C206	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C207	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C208	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C209	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C210	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C211	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C212	1-126-395-11	ELECT CHIP	22uF	20%	16V
C213	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C214	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C300	1-117-681-11	ELECT CHIP	100uF	20%	16V
C301	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C303	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C304	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C305	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C306	1-124-779-00	ELECT CHIP	10uF	20%	16V
C307	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C308	1-127-692-11	CERAMIC CHIP	10uF	10%	6.3V

MD

Ref. No.	Part No.	Description			Remark
C309	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V
C310	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V
C311	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V
C312	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V
C313	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V
C314	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V
C315	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V
C316	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V
C317	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V
C318	1-113-642-11	TANTALUM CHIP	47uF	20%	10V
C319	1-113-642-11	TANTALUM CHIP	47uF	20%	10V
C400	1-127-692-11	CERAMIC CHIP	10uF	10%	6.3V
C401	1-127-692-11	CERAMIC CHIP	10uF	10%	6.3V
C402	1-127-692-11	CERAMIC CHIP	10uF	10%	6.3V
C403	1-127-692-11	CERAMIC CHIP	10uF	10%	6.3V
C404	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C405	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C406	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V
C407	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C408	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V
C409	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C410	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V
C411	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C412	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C413	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C414	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V
C415	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V
C416	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C417	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V
C418	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C423	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C424	1-113-642-11	TANTALUM CHIP	47uF	20%	10V
C425	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C428	1-164-730-11	CERAMIC CHIP	0.0012uF	10%	50V
C429	1-164-730-11	CERAMIC CHIP	0.0012uF	10%	50V
C500	1-104-851-11	TANTALUM CHIP	10uF	20%	10V
C501	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C502	1-104-851-11	TANTALUM CHIP	10uF	20%	10V
C503	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C504	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C505	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C506	1-128-934-11	CERAMIC CHIP	0.33uF	20%	10V
C507	1-104-851-11	TANTALUM CHIP	10uF	20%	10V
C508	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C509	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C510	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C511	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C512	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C513	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C514	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C515	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C516	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C517	1-162-922-11	CERAMIC CHIP	39PF	5%	50V
C518	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C519	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C600	1-119-751-11	TANTALUM CHIP	22uF	20%	16V
C601	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C602	1-119-751-11	TANTALUM CHIP	22uF	20%	16V
C603	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C604	1-128-992-21	ELECT CHIP	47uF	20%	25V
C605	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C606	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C607	1-119-751-11	TANTALUM CHIP	22uF	20%	16V
C608	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C609	1-137-765-21	ELECT CHIP	47uF	20%	16V
C613	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C615	1-128-934-11	CERAMIC CHIP	0.33uF	20%	10V
C616	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C617	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C618	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C619	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C621	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C625	1-104-919-11	TANTALUM CHIP	10uF	20%	25V
C626	1-126-395-11	ELECT CHIP	22uF	20%	16V
		< CONNECTOR >			
CN2	1-770-347-21	CONNECTOR, FPC 6P			
* CN3	1-816-544-21	PIN, CONNECTOR (PC BOARD) 20P			
		< DIODE >			
D1	8-719-988-61	DIODE 1SS355TE-17			
D101	8-719-988-61	DIODE 1SS355TE-17			
D200	8-719-989-03	DIODE DAN222			
D300	8-719-422-89	DIODE MA8082-H-TX			
D400	8-719-988-61	DIODE 1SS355TE-17			
D401	8-719-053-18	DIODE 1SR154-400TE-25			
D602	8-719-988-61	DIODE 1SS355TE-17			
		< FERRITE BEAD >			
FB100	1-469-324-21	FERRITE	0uH		
FB101	1-469-324-21	FERRITE	0uH		
FB102	1-469-324-21	FERRITE	0uH		
FB103	1-469-324-21	FERRITE	0uH		
FB104	1-469-324-21	FERRITE	0uH		
FB105	1-469-324-21	FERRITE	0uH		
FB400	1-414-760-21	FERRITE	0uH		
FB401	1-414-760-21	FERRITE	0uH		
FB402	1-469-324-21	FERRITE	0uH		
FB404	1-414-760-21	FERRITE	0uH		
FB405	1-414-760-21	FERRITE	0uH		
FB406	1-414-760-21	FERRITE	0uH		
FB407	1-414-760-21	FERRITE	0uH		
FB408	1-414-760-21	FERRITE	0uH		
FB409	1-469-324-21	FERRITE	0uH		
FB411	1-469-324-21	FERRITE	0uH		
FB412	1-469-324-21	FERRITE	0uH		
FB414	1-469-324-21	FERRITE	0uH		
FB436	1-469-324-21	FERRITE	0uH		
FB437	1-469-324-21	FERRITE	0uH		
FB438	1-469-324-21	FERRITE	0uH		
		< IC >			
IC1	8-752-089-74	IC CXA2581N-T4			
IC9	8-759-527-33	IC LB1930M-TLM			

MD

Ref. No.	Part No.	Description	Remark
IC100	6-700-195-01	IC MSM51V17400F-10TK-FS	
IC101	8-752-398-18	IC CXD3027R	
IC200	6-802-269-01	IC HD6432238RWN26TEIV	
IC300	8-759-685-74	IC BH6518FS-E2	
IC400	8-759-422-21	IC NJM4580V (TE2)	
IC401	8-759-422-21	IC NJM4580V (TE2)	
IC500	6-702-660-01	IC UT61L1024LC-15	
IC501	6-700-297-01	IC CXD9684R-004	
IC502	8-759-096-87	IC TC7WU04FU (TE12R)	
IC600	8-759-712-74	IC RN5RZ33BA-TL	
* IC601	6-702-183-01	IC NJM7805DL1A (TE2)	
IC603	6-700-138-01	IC AN77L09M-E1	
IC604	8-759-645-31	IC RN5RZ25BA-TL	
* IC605	6-702-184-01	IC NJM2870F38 (TE2)	
		< COIL/SHORT >	
L1	1-400-183-21	INDUCTOR CHIP 10uH	
L2	1-216-295-11	SHORT CHIP 0	
L3	1-412-058-11	INDUCTOR CHIP 10uH	
L200	1-400-183-21	INDUCTOR CHIP 10uH	
L300	1-414-398-11	INDUCTOR CHIP 10uH	
L301	1-414-398-11	INDUCTOR CHIP 10uH	
L302	1-414-398-11	INDUCTOR CHIP 10uH	
L303	1-414-398-11	INDUCTOR CHIP 10uH	
L304	1-414-398-11	INDUCTOR CHIP 10uH	
L305	1-414-400-41	INDUCTOR CHIP 22uH	
L306	1-414-400-41	INDUCTOR CHIP 22uH	
L307	1-414-398-11	INDUCTOR CHIP 10uH	
L308	1-414-398-11	INDUCTOR CHIP 10uH	
L309	1-414-398-11	INDUCTOR CHIP 10uH	
L310	1-414-398-11	INDUCTOR CHIP 10uH	
L311	1-414-398-11	INDUCTOR CHIP 10uH	
L400	1-400-183-21	INDUCTOR CHIP 10uH	
L401	1-400-183-21	INDUCTOR CHIP 10uH	
L402	1-400-183-21	INDUCTOR CHIP 10uH	
L500	1-400-183-21	INDUCTOR CHIP 10uH	
L501	1-400-183-21	INDUCTOR CHIP 10uH	
		< TRANSISTOR >	
Q1	8-729-141-48	TRANSISTOR 2SB624-BV345	
Q4	8-729-928-90	TRANSISTOR DTC114EE	
Q6	8-729-928-81	TRANSISTOR DTC144EE	
Q7	8-729-141-48	TRANSISTOR 2SB624-BV345	
Q10	8-729-928-90	TRANSISTOR DTC114EE	
Q100	8-729-928-36	TRANSISTOR DTA114EE	
Q101	8-729-928-36	TRANSISTOR DTA114EE	
Q202	8-729-928-90	TRANSISTOR DTC114EE	
Q203	8-729-820-61	TRANSISTOR 2SB1124-T	
Q400	8-729-015-39	TRANSISTOR DTC323TK	
Q401	8-729-015-39	TRANSISTOR DTC323TK	
Q402	8-729-928-90	TRANSISTOR DTC114EE	
Q403	8-729-020-67	TRANSISTOR XN1A312-TX	
Q500	8-729-820-61	TRANSISTOR 2SB1124-T	
Q501	8-729-928-36	TRANSISTOR DTA114EE	
Q502	8-729-928-90	TRANSISTOR DTC114EE	
Q600	8-729-820-61	TRANSISTOR 2SB1124-T	
Q601	8-729-820-61	TRANSISTOR 2SB1124-T	
Q602	8-729-928-90	TRANSISTOR DTC114EE	
Q603	8-729-820-61	TRANSISTOR 2SB1124-T	
Q604	8-729-928-90	TRANSISTOR DTC114EE	
Q606	8-729-928-90	TRANSISTOR DTC114EE	
Q701	8-729-041-49	TRANSISTOR CPT-182S-C-TU-BCD	
Q702	8-729-041-49	TRANSISTOR CPT-182S-C-TU-BCD	
		< RESISTOR >	
R1	1-216-801-11	METAL CHIP 22 5% 1/10W	
R3	1-216-837-11	METAL CHIP 22K 5% 1/10W	
R4	1-216-834-11	METAL CHIP 12K 5% 1/10W	
R5	1-216-834-11	METAL CHIP 12K 5% 1/10W	
R7	1-216-834-11	METAL CHIP 12K 5% 1/10W	
R8	1-216-834-11	METAL CHIP 12K 5% 1/10W	
R10	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R11	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R12	1-216-864-11	SHORT CHIP 0	
R13	1-216-839-11	METAL CHIP 33K 5% 1/10W	
R18	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R20	1-216-834-11	METAL CHIP 12K 5% 1/10W	
R21	1-216-837-11	METAL CHIP 22K 5% 1/10W	
R22	1-216-827-11	METAL CHIP 3.3K 5% 1/10W	
R24	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R25	1-216-830-11	METAL CHIP 5.6K 5% 1/10W	
R26	1-218-867-11	METAL CHIP 6.8K 5% 1/10W	
R27	1-216-830-11	METAL CHIP 5.6K 5% 1/10W	
R28	1-216-844-11	METAL CHIP 82K 5% 1/10W	
R29	1-218-867-11	METAL CHIP 6.8K 5% 1/10W	
R30	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R31	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R32	1-216-849-11	METAL CHIP 220K 5% 1/10W	
R33	1-216-839-11	METAL CHIP 33K 5% 1/10W	
R34	1-216-837-11	METAL CHIP 22K 5% 1/10W	
R35	1-216-843-11	METAL CHIP 68K 5% 1/10W	
R38	1-216-839-11	METAL CHIP 33K 5% 1/10W	
R41	1-216-839-11	METAL CHIP 33K 5% 1/10W	
R73	1-216-837-11	METAL CHIP 22K 5% 1/10W	
R97	1-216-837-11	METAL CHIP 22K 5% 1/10W	
R101	1-218-824-11	METAL CHIP 110 5% 1/10W	
R102	1-216-809-11	METAL CHIP 100 5% 1/10W	
R103	1-216-864-11	SHORT CHIP 0	
R104	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R105	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R106	1-216-855-11	METAL CHIP 680K 5% 1/10W	
R107	1-216-827-11	METAL CHIP 3.3K 5% 1/10W	
R108	1-216-827-11	METAL CHIP 3.3K 5% 1/10W	
R109	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R110	1-216-857-11	METAL CHIP 1M 5% 1/10W	
R111	1-216-849-11	METAL CHIP 220K 5% 1/10W	
R112	1-216-839-11	METAL CHIP 33K 5% 1/10W	
R114	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R116	1-216-809-11	METAL CHIP 100 5% 1/10W	
R117	1-216-809-11	METAL CHIP 100 5% 1/10W	
R118	1-216-809-11	METAL CHIP 100 5% 1/10W	
R119	1-216-809-11	METAL CHIP 100 5% 1/10W	
R120	1-216-809-11	METAL CHIP 100 5% 1/10W	
R121	1-216-809-11	METAL CHIP 100 5% 1/10W	
R122	1-216-841-11	METAL CHIP 47K 5% 1/10W	

Ref. No.	Part No.	Description			Remark
R123	1-216-821-11	METAL CHIP	1K	5%	1/10W
R124	1-216-833-11	METAL CHIP	10K	5%	1/10W
R127	1-216-849-11	METAL CHIP	220K	5%	1/10W
R128	1-216-821-11	METAL CHIP	1K	5%	1/10W
R130	1-216-809-11	METAL CHIP	100	5%	1/10W
R202	1-216-845-11	METAL CHIP	100K	5%	1/10W
R206	1-216-845-11	METAL CHIP	100K	5%	1/10W
R207	1-216-845-11	METAL CHIP	100K	5%	1/10W
R211	1-216-845-11	METAL CHIP	100K	5%	1/10W
R213	1-216-845-11	METAL CHIP	100K	5%	1/10W
R216	1-216-845-11	METAL CHIP	100K	5%	1/10W
R217	1-216-857-11	METAL CHIP	1M	5%	1/10W
R218	1-216-833-11	METAL CHIP	10K	5%	1/10W
R221	1-216-809-11	METAL CHIP	100	5%	1/10W
R223	1-216-809-11	METAL CHIP	100	5%	1/10W
R224	1-216-809-11	METAL CHIP	100	5%	1/10W
R225	1-216-809-11	METAL CHIP	100	5%	1/10W
R226	1-216-809-11	METAL CHIP	100	5%	1/10W
R227	1-216-809-11	METAL CHIP	100	5%	1/10W
R228	1-216-809-11	METAL CHIP	100	5%	1/10W
R229	1-216-809-11	METAL CHIP	100	5%	1/10W
R231	1-216-864-11	SHORT CHIP	0		
R232	1-216-809-11	METAL CHIP	100	5%	1/10W
R233	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R234	1-216-809-11	METAL CHIP	100	5%	1/10W
R235	1-216-809-11	METAL CHIP	100	5%	1/10W
R236	1-216-809-11	METAL CHIP	100	5%	1/10W
R238	1-216-845-11	METAL CHIP	100K	5%	1/10W
R239	1-216-845-11	METAL CHIP	100K	5%	1/10W
R241	1-216-845-11	METAL CHIP	100K	5%	1/10W
R244	1-216-845-11	METAL CHIP	100K	5%	1/10W
R245	1-216-821-11	METAL CHIP	1K	5%	1/10W
R246	1-216-845-11	METAL CHIP	100K	5%	1/10W
R248	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R249	1-216-845-11	METAL CHIP	100K	5%	1/10W
R256	1-216-845-11	METAL CHIP	100K	5%	1/10W
R257	1-216-845-11	METAL CHIP	100K	5%	1/10W
R258	1-216-833-11	METAL CHIP	10K	5%	1/10W
R259	1-216-837-11	METAL CHIP	22K	5%	1/10W
R260	1-216-845-11	METAL CHIP	100K	5%	1/10W
R261	1-216-845-11	METAL CHIP	100K	5%	1/10W
R262	1-216-821-11	METAL CHIP	1K	5%	1/10W
R263	1-216-821-11	METAL CHIP	1K	5%	1/10W
R265	1-216-864-11	SHORT CHIP	0		
R308	1-216-821-11	METAL CHIP	1K	5%	1/10W
R400	1-216-809-11	METAL CHIP	100	5%	1/10W
R401	1-216-809-11	METAL CHIP	100	5%	1/10W
R402	1-218-331-11	METAL CHIP	51K	5%	1/10W
R403	1-216-841-11	METAL CHIP	47K	5%	1/10W
R404	1-216-839-11	METAL CHIP	33K	5%	1/10W
R405	1-218-292-11	METAL CHIP	20K	5%	1/10W
R406	1-216-833-11	METAL CHIP	10K	5%	1/10W
R407	1-218-292-11	METAL CHIP	20K	5%	1/10W
R408	1-216-833-11	METAL CHIP	10K	5%	1/10W
R409	1-218-331-11	METAL CHIP	51K	5%	1/10W
R410	1-216-841-11	METAL CHIP	47K	5%	1/10W
R411	1-218-292-11	METAL CHIP	20K	5%	1/10W
R412	1-216-833-11	METAL CHIP	10K	5%	1/10W
R413	1-216-833-11	METAL CHIP	10K	5%	1/10W
R414	1-216-839-11	METAL CHIP	33K	5%	1/10W
R415	1-218-292-11	METAL CHIP	20K	5%	1/10W
R416	1-216-833-11	METAL CHIP	10K	5%	1/10W
R417	1-216-809-11	METAL CHIP	100	5%	1/10W
R418	1-216-809-11	METAL CHIP	100	5%	1/10W
R424	1-216-833-11	METAL CHIP	10K	5%	1/10W
R425	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R427	1-216-833-11	METAL CHIP	10K	5%	1/10W
R428	1-216-833-11	METAL CHIP	10K	5%	1/10W
R434	1-216-809-11	METAL CHIP	100	5%	1/10W
R435	1-216-809-11	METAL CHIP	100	5%	1/10W
R500	1-216-821-11	METAL CHIP	1K	5%	1/10W
R502	1-216-815-11	METAL CHIP	330	5%	1/10W
R503	1-216-815-11	METAL CHIP	330	5%	1/10W
R504	1-216-845-11	METAL CHIP	100K	5%	1/10W
R505	1-216-845-11	METAL CHIP	100K	5%	1/10W
R506	1-216-845-11	METAL CHIP	100K	5%	1/10W
R507	1-216-845-11	METAL CHIP	100K	5%	1/10W
R508	1-216-845-11	METAL CHIP	100K	5%	1/10W
R509	1-216-845-11	METAL CHIP	100K	5%	1/10W
R510	1-216-845-11	METAL CHIP	100K	5%	1/10W
R511	1-216-845-11	METAL CHIP	100K	5%	1/10W
R513	1-216-845-11	METAL CHIP	100K	5%	1/10W
R514	1-216-845-11	METAL CHIP	100K	5%	1/10W
R515	1-216-845-11	METAL CHIP	100K	5%	1/10W
R516	1-216-845-11	METAL CHIP	100K	5%	1/10W
R518	1-216-857-11	METAL CHIP	1M	5%	1/10W
R519	1-216-809-11	METAL CHIP	100	5%	1/10W
R520	1-216-841-11	METAL CHIP	47K	5%	1/10W
R521	1-216-845-11	METAL CHIP	100K	5%	1/10W
R522	1-216-845-11	METAL CHIP	100K	5%	1/10W
R523	1-216-845-11	METAL CHIP	100K	5%	1/10W
R524	1-216-845-11	METAL CHIP	100K	5%	1/10W
R525	1-216-845-11	METAL CHIP	100K	5%	1/10W
R529	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R530	1-216-837-11	METAL CHIP	22K	5%	1/10W
R532	1-216-845-11	METAL CHIP	100K	5%	1/10W
R601	1-216-837-11	METAL CHIP	22K	5%	1/10W
R602	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R603	1-216-837-11	METAL CHIP	22K	5%	1/10W
R605	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R606	1-216-817-11	METAL CHIP	470	5%	1/10W
R610	1-216-837-11	METAL CHIP	22K	5%	1/10W
R611	1-216-813-11	METAL CHIP	220	5%	1/10W
R616	1-216-845-11	METAL CHIP	100K	5%	1/10W
R705	1-216-846-11	METAL CHIP	120K	5%	1/10W
R707	1-216-846-11	METAL CHIP	120K	5%	1/10W
		< SWITCH >			
S201	1-786-380-11	SWITCH, PUSH (1KEY) (DISC SET)			
		< THERMISTOR >			
THP200	1-804-045-11	THERMISTOR			

MD **SW**

Ref. No.	Part No.	Description	Remark
		< VIBRATOR >	
X1	1-795-520-11	VIBRATOR, CERAMIC (16.9344MHz)	
X2	1-795-127-21	VIBRATOR, CERAMIC (12.288MHz)	
**********			
*	A-3274-208-A	SW BOARD, COMPLETE	
		**********	

For the parts on the SW board, replace the entire mounted board.
****

		MISCELLANEOUS	
		**********	
5	1-824-417-11	CORD, CONNECTION (C1)	
* 108	1-684-976-11	MOTOR FLEXIBLE BOARD	
111	1-680-824-12	OP FLEXIBLE BOARD	
112	X-3382-659-1	CHASSIS (OPT) (SV) ASSY (including M102)	
⚠114	8-820-103-12	OPTICAL PICK-UP KSS-720A/Q-N1	
M101	A-3301-796-A	MOTOR ASSY, SLED	
* M103	A-3315-498-A	LOADING MOTOR SUB ASSY	

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

MEMO

REVISION HISTORY

Clicking the version allows you to jump to the revised page.
Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2002.08	New