

CDX-605

SERVICE MANUAL

US Model



Model Name Using Similar Mechanism	CDX-505RF
CD Drive Mechanism Type	MG-250C-137
Optical Pick-up Name	KSS-521A/J2N

SPECIFICATIONS

System	Compact disc digital audio system
Frequency response	10 – 20,000 Hz
Wow and flutter	Below the measurable limit
Signal-to-noise ratio	94 dB
Outputs	BUS control output (8 pins) Analog audio output (RCA pin)
Current drain	800 mA (during CD playback) 800 mA (during loading or ejecting a disc)
Operating temperature	– 10 °C to + 55 °C (14 °F to 131 °F)
Dimensions	Approx. 262 × 90 × 181.5 mm (10 ³ /8 × 3 ⁵ /8 × 7 ¹ / ₄ in.) (w/h/d) not incl. projecting parts and controls
Mass	Approx. 2.1 kg (4 lb 10 oz)
Power requirement	12 V DC car battery (negative ground)
Supplied accessories	Disc magazine (1) Parts for installation and connections (1 set)

Design and specifications subject to change without notice.

COMPACT DISC CHANGER



SONY®

SECTION 1

SERVICING NOTES

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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.

Laser Diode Properties

- Material: GaAlAs
- Wavelength: 780 nm
- Emission Duration: continuous
- Laser Output Power: less than 44.6 μW*

* This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

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.

Notes on chip component replacement

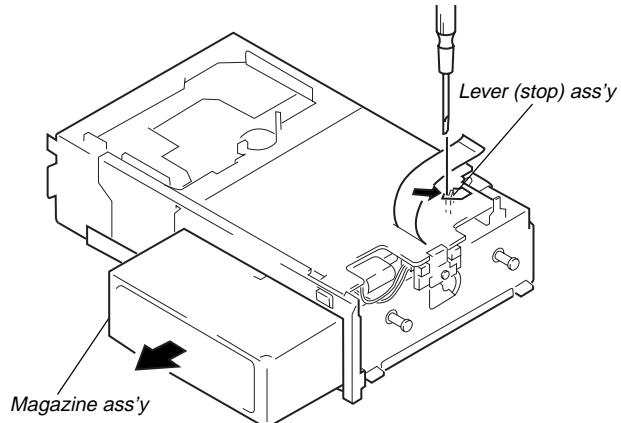
- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

DISC MAGAZINE GETTING OUT PROCEDURE ON THE POWER SUPPLY IS OFF

Remove the CASE (LOWER) assembly beforehand

- 1) Press the lever (stop) ass'y to arrow direction.
- 2) Removal the magazine ass'y.

Note: Take out the magazine only when the tray is completely within the magazine. If the disk or tray is sticking out, turn on the power and eject the magazine.



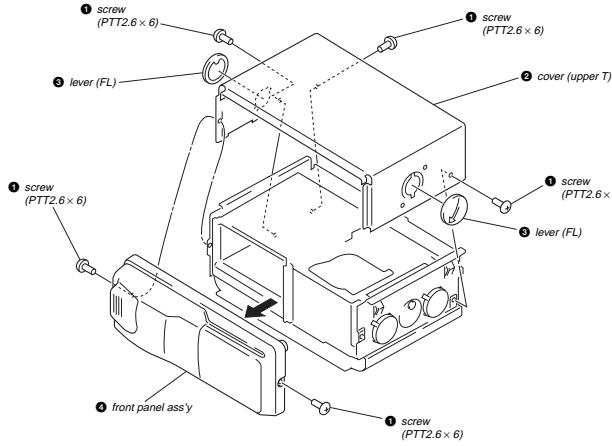
SAFETY-RELATED COMPONENT WARNING!!

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.

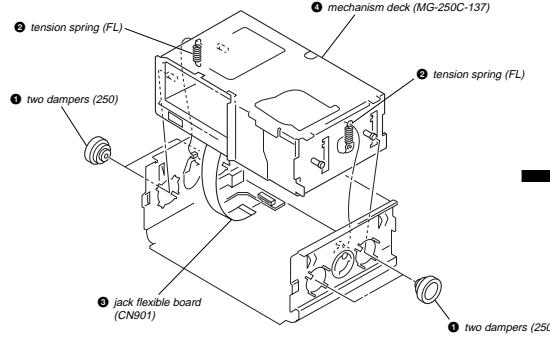
SECTION 3
DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

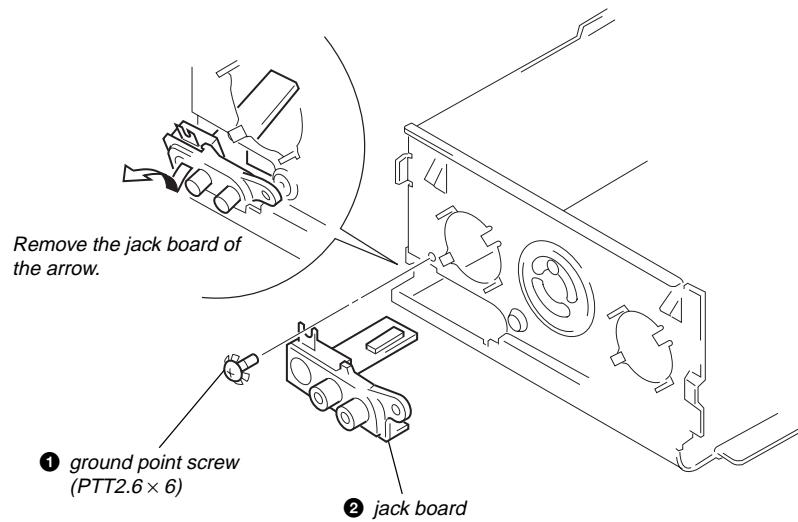
COVER (UPPER T), FRONT PANEL ASS'



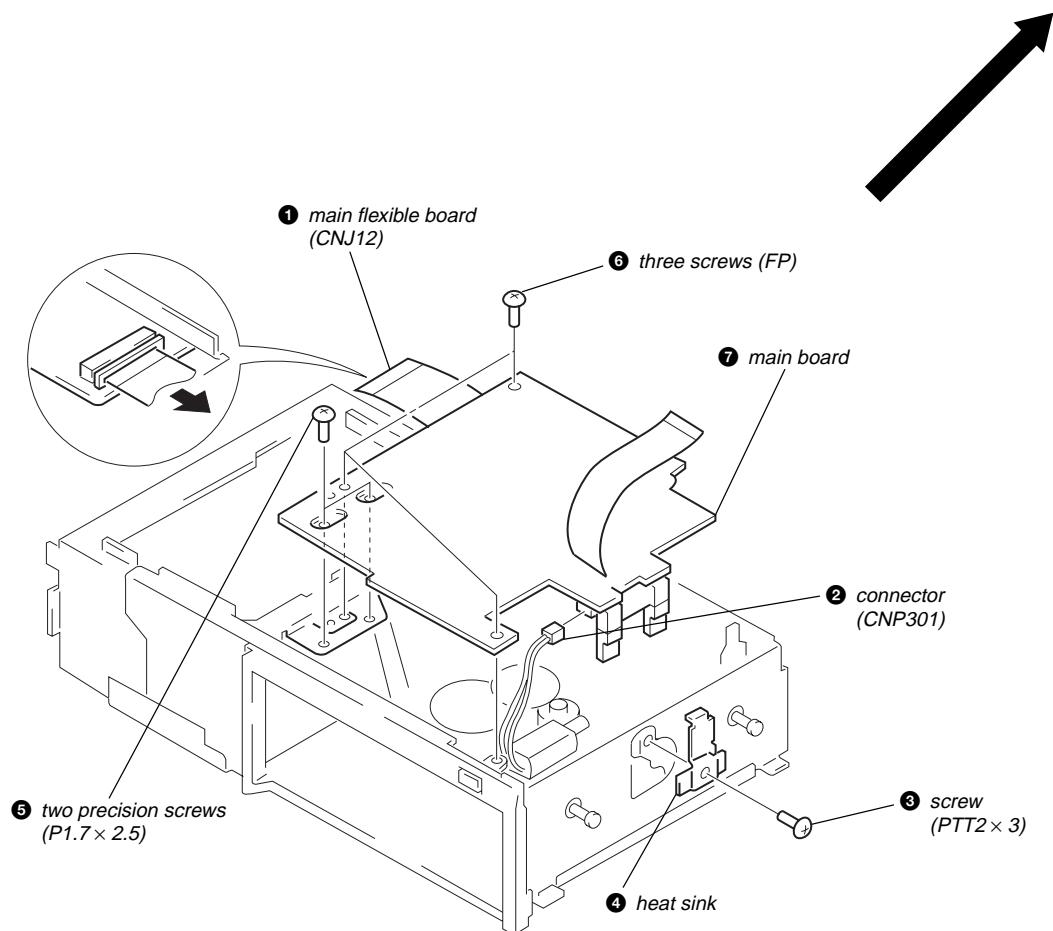
MECHANISM DECK (MG-250C-137)



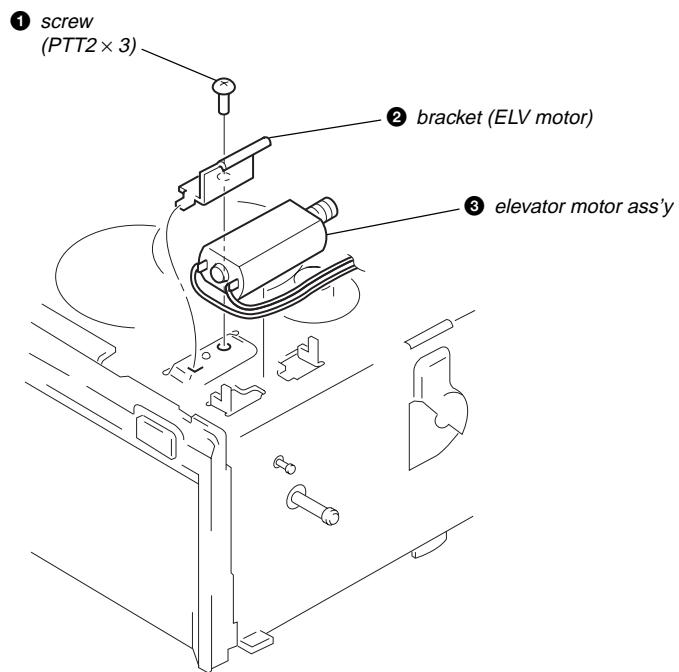
JACK BOARD



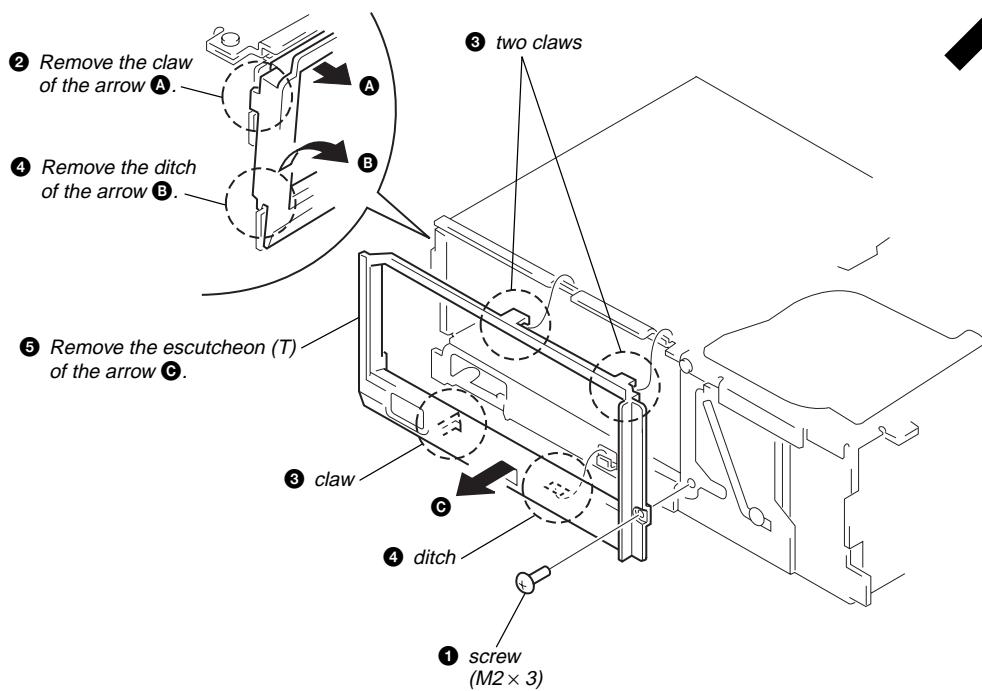
MAIN BOARD



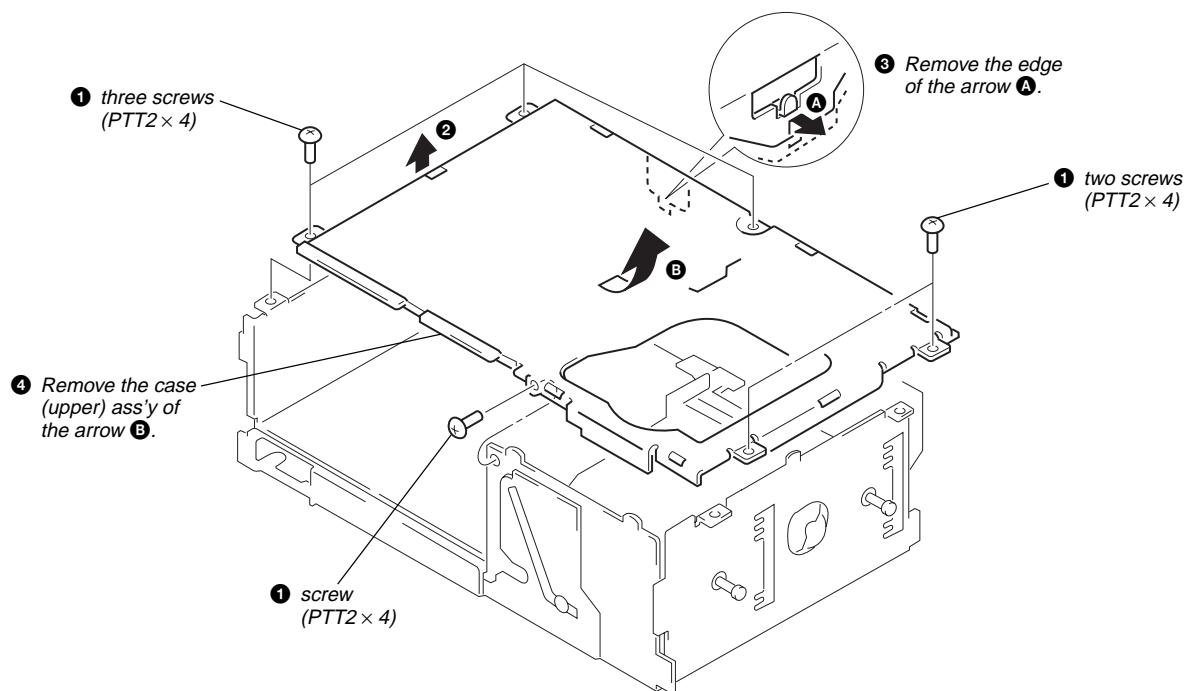
ELEVATOR MOTOR ASS'Y (M104)



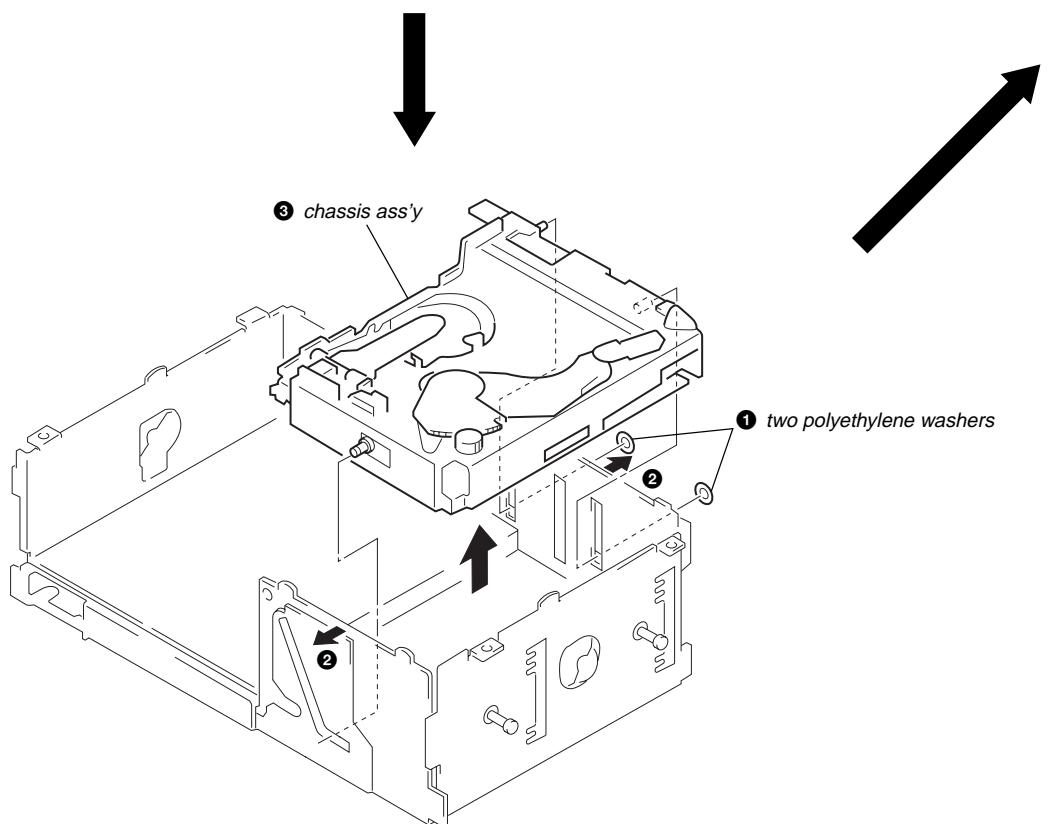
ESCUTCHEON (T)



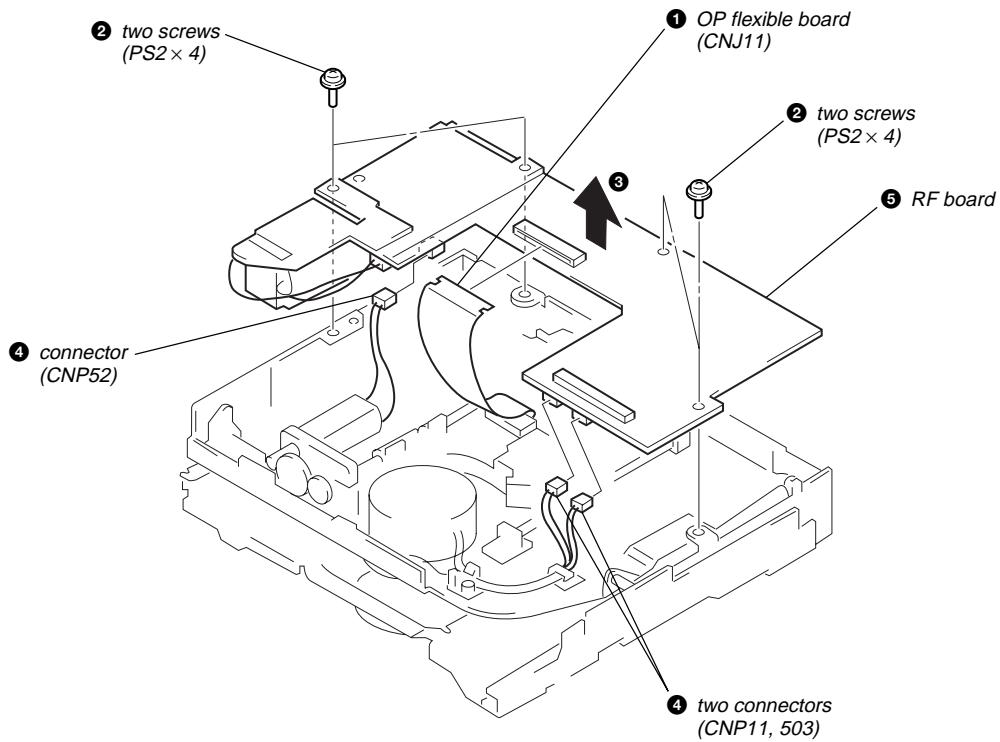
CASE (UPPER) ASS'Y



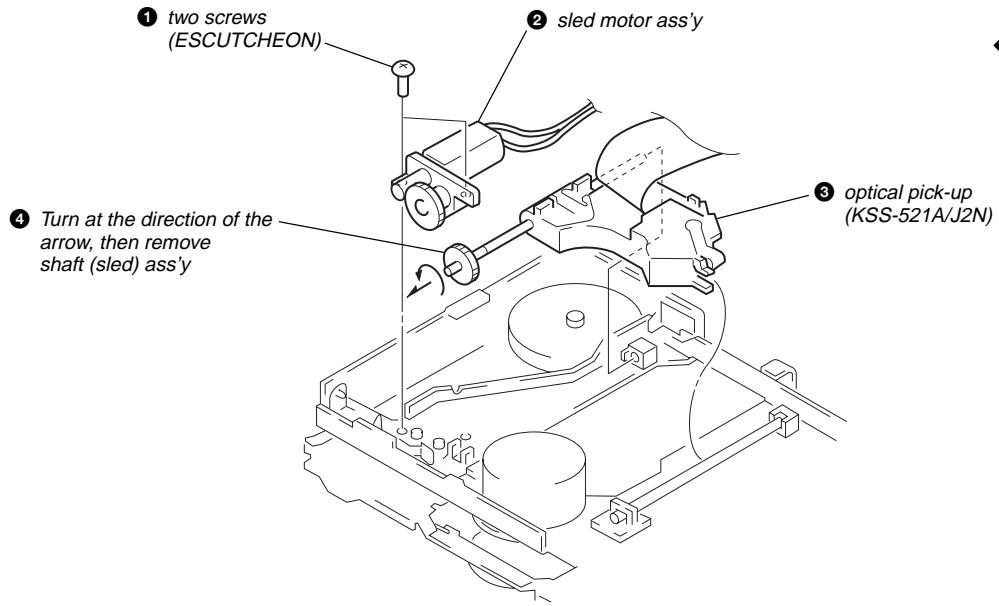
CHASSIS ASS'Y



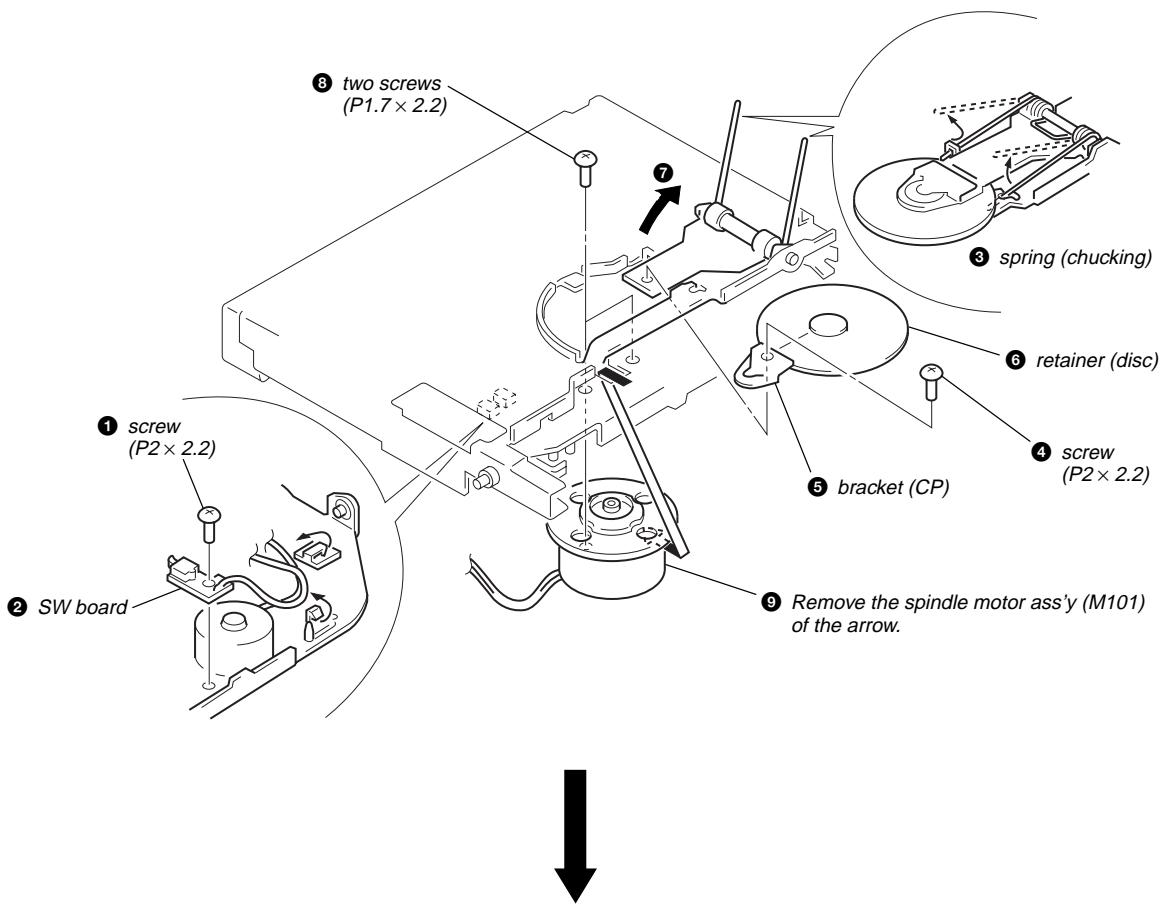
RF BOARD



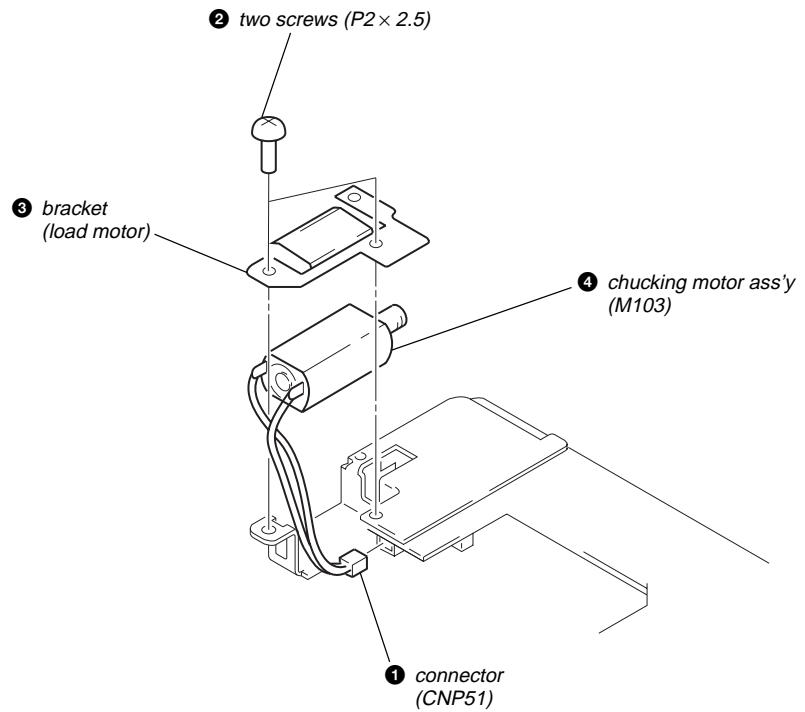
SLED MOTOR ASS'Y (M102), OPTICAL PICK-UP (KSS-521A/J2N)



SW BOARD, SPINDLE MOTOR ASS'Y (M101)



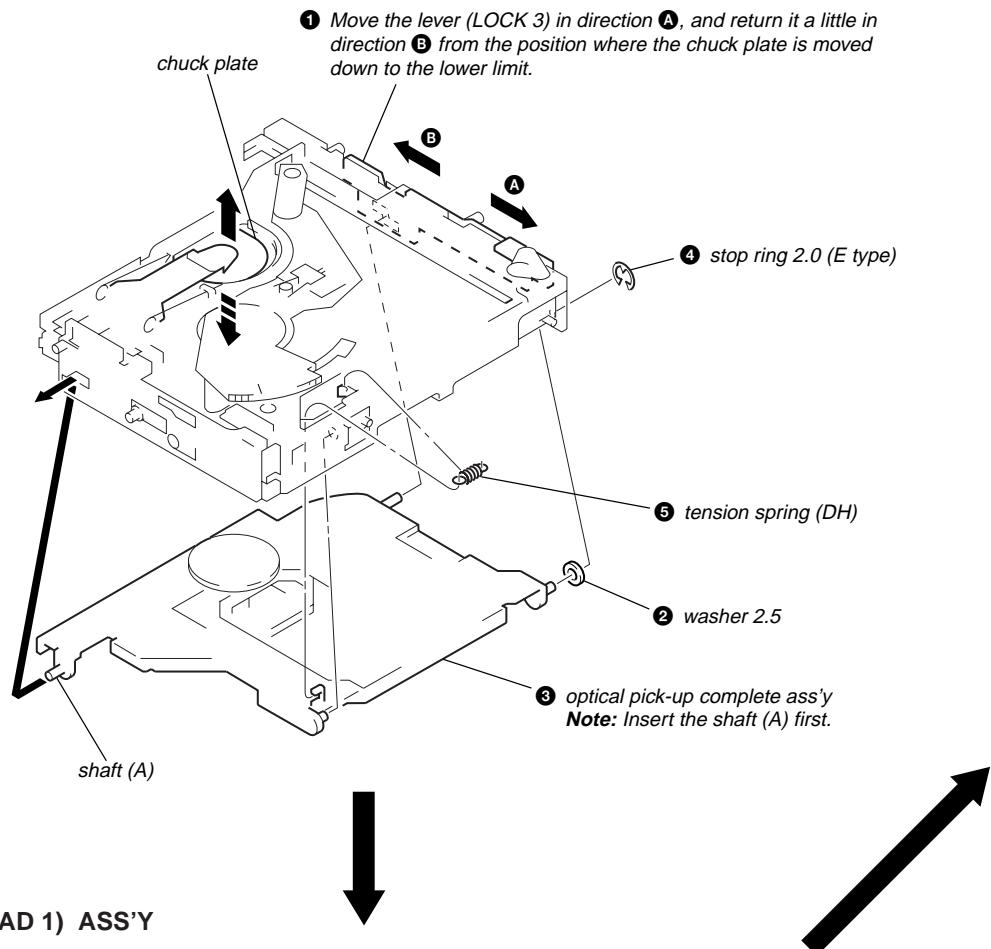
CHUCKING MOTOR ASS'Y (M103)



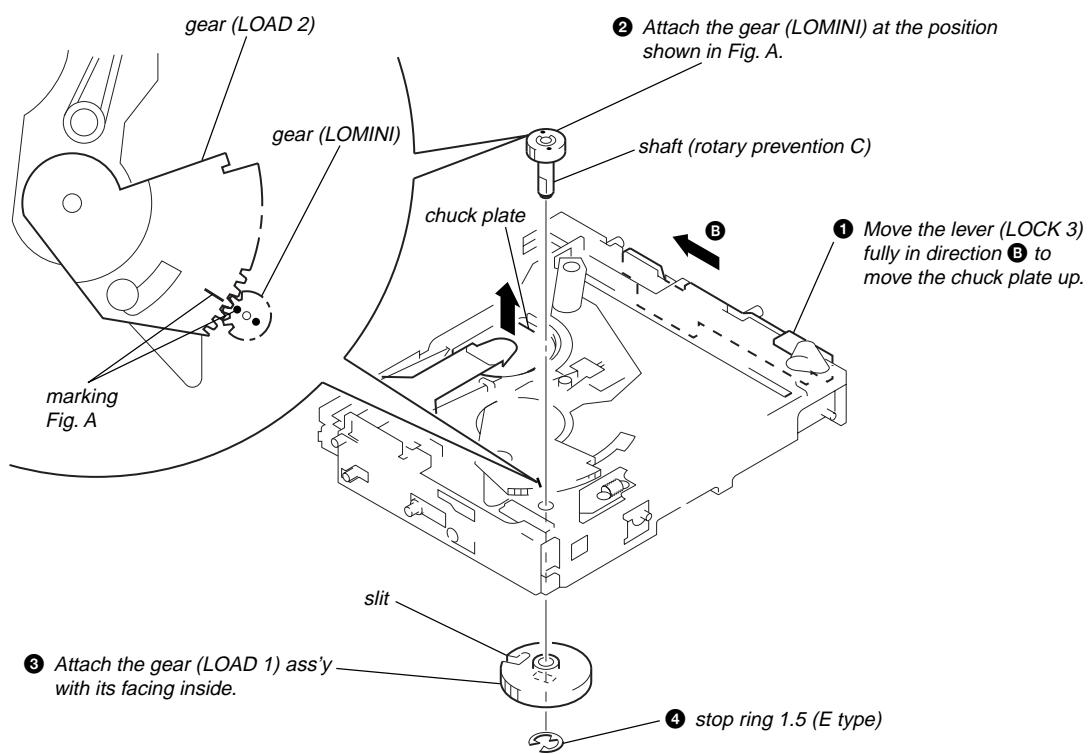
SECTION 4 MECHANISM DECK ASSEMBLY

Note: Follow the assembly procedure in the numerical order given.

OPTICAL PICK-UP COMPLETE ASS'Y

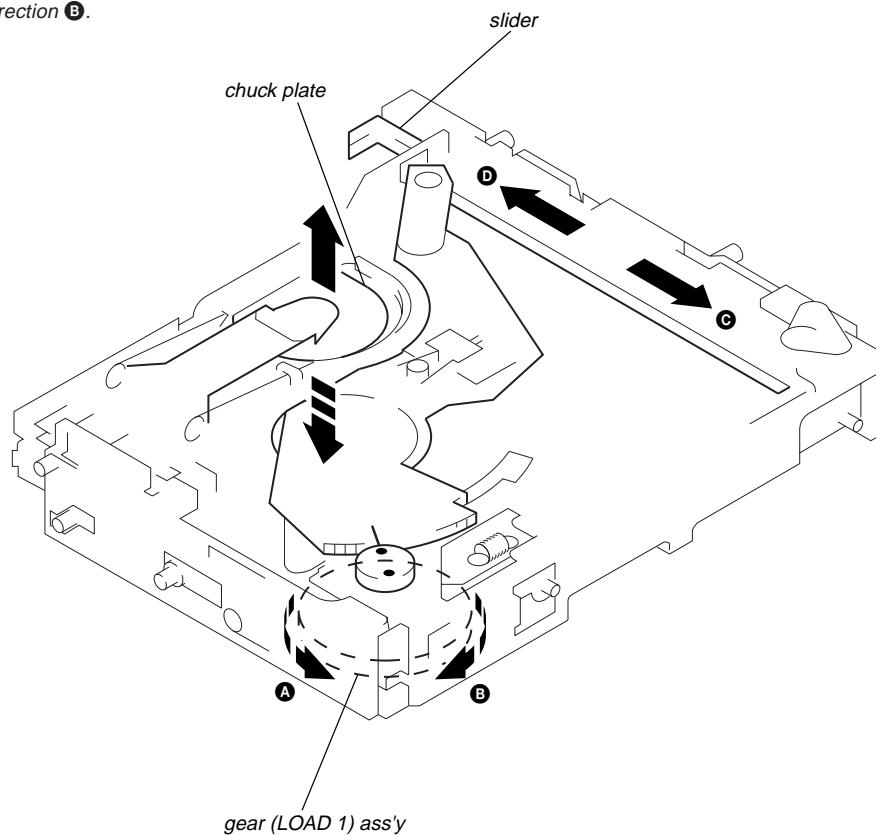


GEAR (LOMINI) / (LOAD 1) ASS'Y



OPERATION CHECK

- ① Confirm that the slider moves in direction **C** to move down the chuck plate if the gear (LOAD 1) is rotated in direction **A** or the chuck plate moves up and the slider moves in direction **D** if the gear is rotated in direction **B**.



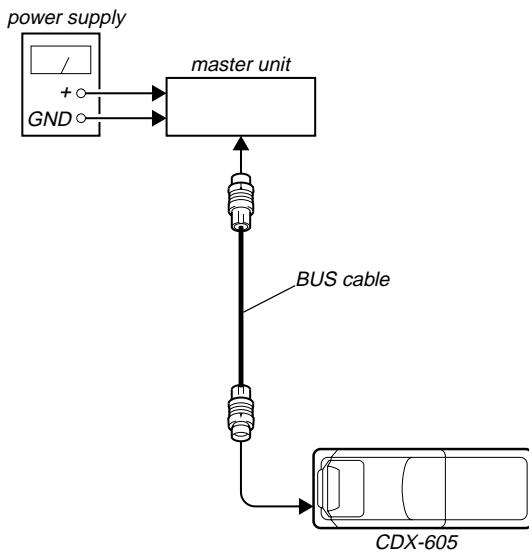
SECTION 5

MECHANICAL ADJUSTMENTS

- **Elevator Height (Address) Adjustment**

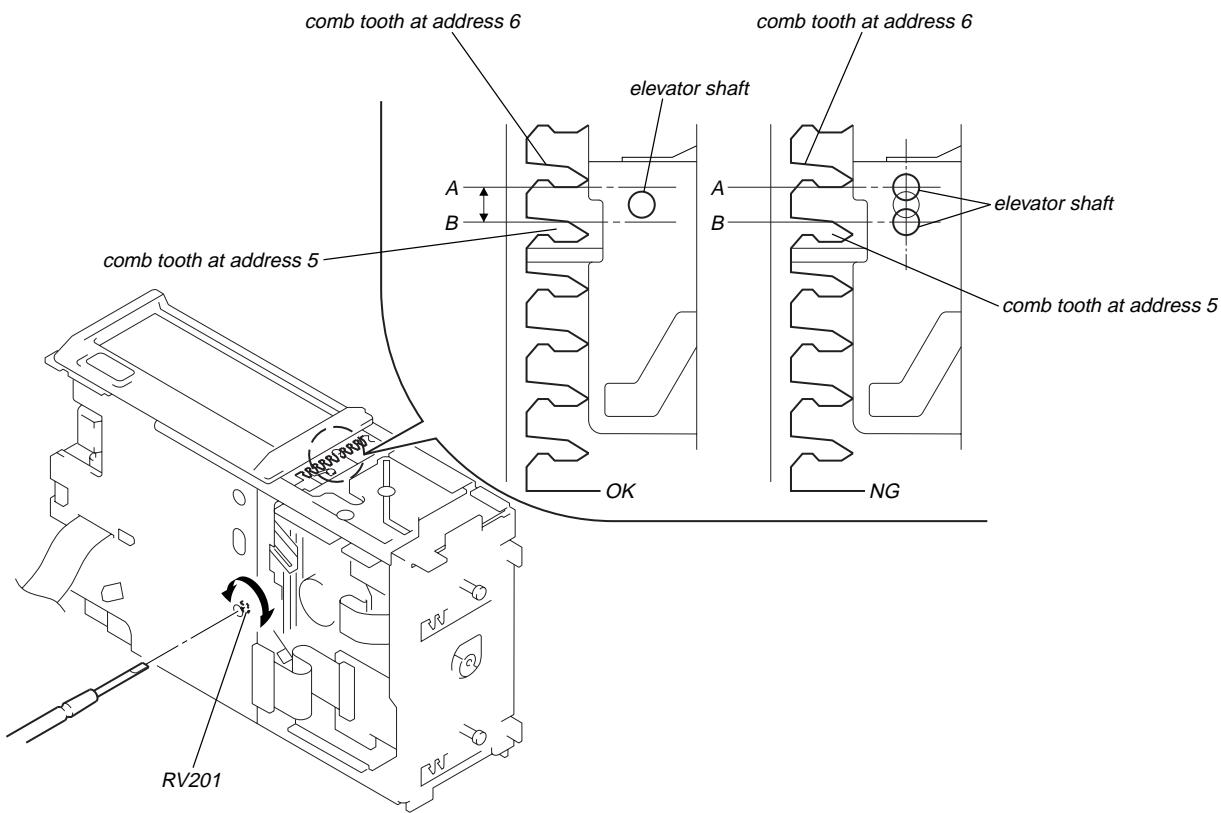
Note: This adjustment is necessary when the system controller (IC201), variable resistor (RV201), slider (R), slider (L), or chassis (ELV) was replaced for any repair.

Connection:



Adjustment Method:

1. Connect this set to the master unit (e.g. MDX-C670/C670RDS), load a disc magazine, and place the set vertically as shown below.
2. Connect the regulated power supply to the master unit, and turn the power on.
3. Press the DISC button on the master unit and select DISC 5.
4. At this time, if the elevator shaft does not position between comb teeth A and B at addresses 5 and 6 as shown below, adjust the following.
5. Press repeatedly the DISC + and – buttons on the master unit so that the elevator shaft moves from address 6 to address 5, or from 5 to 6. At this time, adjust RV201 on the main board so that the elevator shaft positions smoothly between comb teeth A and B.
6. Further, place the set horizontally and make same adjustment as mentioned above.
7. After adjustment at addresses 5 to 6 is finished, check all operations from addresses 1 to 10 with the set placed vertically and horizontally respectively to confirm that the elevator shaft positions in a range between comb teeth A to B.



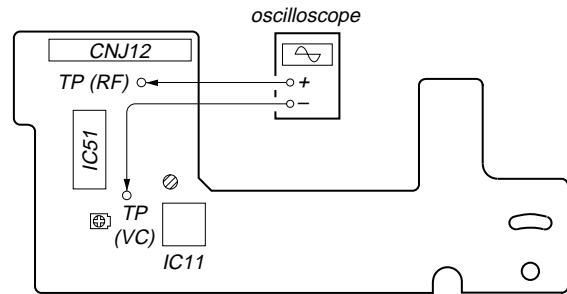
SECTION 6 ELECTRICAL ADJUSTMENTS

Note:

1. Perform adjustments as given.
2. Be sure to use the disc "YEDS-18" parts code: 3-702-101-01, but only when indicated.
3. Power supply voltage: DC14.4 V (more than 3A).

• FOCUS BIAS CHECK

[RF BOARD] – Conductor Side –



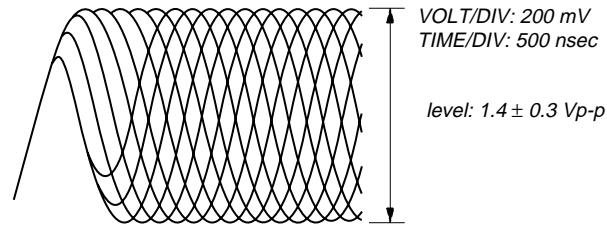
Procedure:

1. Connect the oscilloscope to RF board test point RF.
2. Put the set into play mode by loading the disc.
3. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

Note:

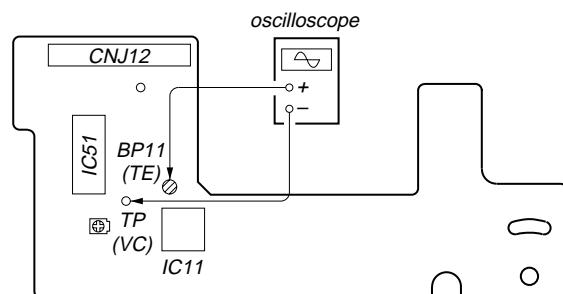
Clear RF signal waveform means that the shape “◇” can be clearly distinguished at the center of the waveform.

RF signal waveform



• TRACKING OFFSET CHECK

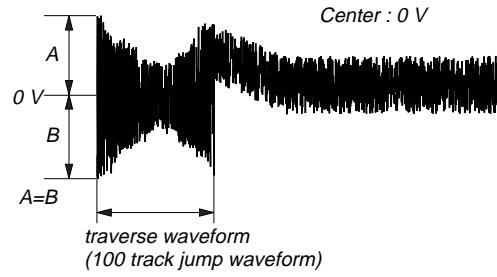
[RF BOARD] – Conductor Side –



Procedure:

1. Connect the oscilloscope to RF board bridge point TE.
2. Put the set into play mode by loading the disc.
3. Press the \blacktriangleleft AMS $\triangleright\triangleright$ button, then, check the traverse waveform.
4. Confirm that the oscilloscope waveform is symmetrical on the top and bottom in relation to 0 V dc, and check this level.
* Traverse waveform: This is the tracking error wave form appears when crossing the track.

VOLT/DIV : 500 mV
TIME/DIV : 2 msec
Center : 0 V



- **FOCUS GAIN ADJUSTMENT
(COARSE ADJUSTMENT)**

This adjustment is to be performed when replacing the following parts.

- Optical Pick-up Block
- RV14

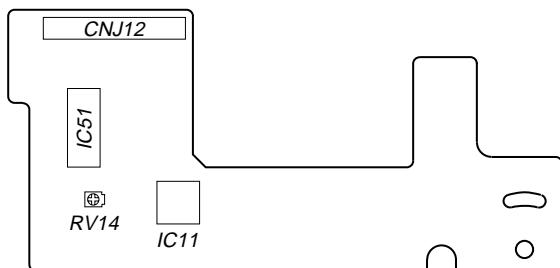
- **When gain is lowered...**

The set does not play because of no focus operation.

- **When gain is highered...**

Operation noise is heard due to a scratch or a dust, then operation will be unstable.

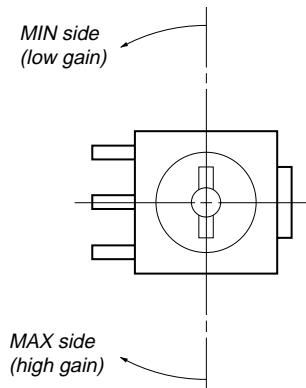
[RF BOARD] – Conductor Side –



Procedure:

1. Set RV14 (RF board) to the standard position.
2. Check that there is not an abnormal amount of operation noise (white noise) from the 2-axis devise. If there is, turn RV14 slightly clockwise.

[RF BOARD] – Conductor Side –



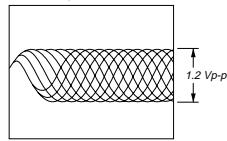
RV14 standard position

SECTION 7 DIAGRAMS

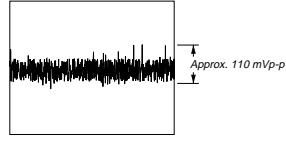
• Waveforms

- RF Section -

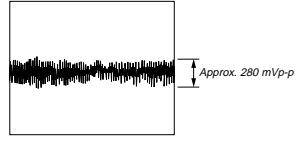
① IC11 ① (FEO)
500 mV/DIV, 500 nsec/DIV



② IC11 ② (FEI)
50 mV/DIV, 1 μsec/DIV

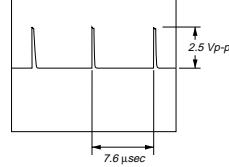


③ IC11 ③ (TEI)
200 mV/DIV, 500 μsec/DIV

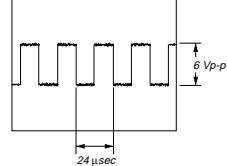


- MAIN Section -

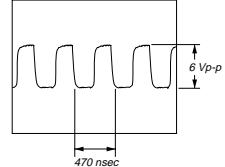
④ IC101 ② (MDP)



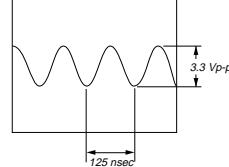
⑤ IC101 ③ (LRCK)



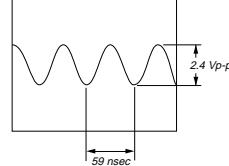
⑥ IC101 ④ (BCK)



⑦ IC302 ③ (EXTAL)



⑧ IC401 ③ (XI)



7-1. NOTES FOR PRINTED WIRING BOARD AND SCHEMATIC DIAGRAM

Note on Schematic Diagram:

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

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

- $\blacksquare +$: B+ Line.
- $\blacksquare \wedge$: adjustment for repair.
- Power voltage is dc 14.4V and fed from CD changer controller.
- Voltages and waveforms are dc with respect to ground in playback mode.
- Voltages are taken with a VOM (Input impedance 10 M 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

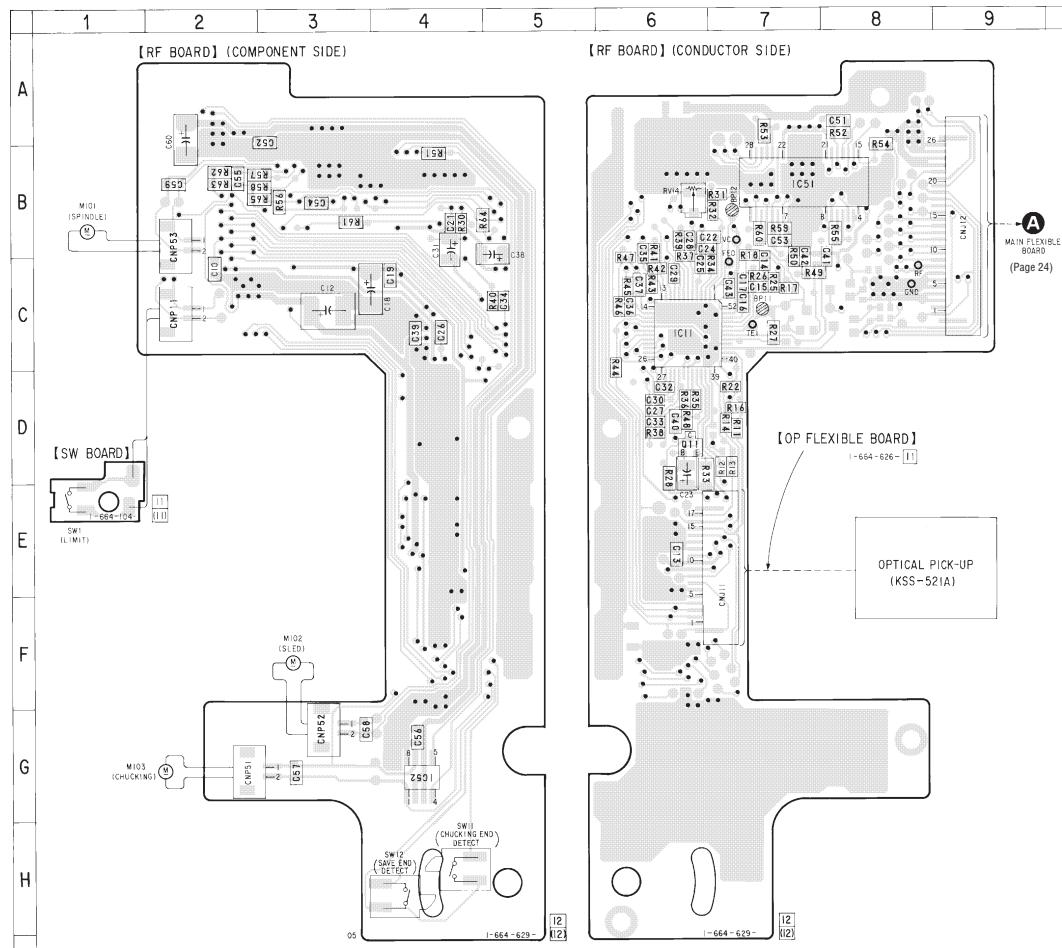
Note on Printed Wiring Board:

- \circ : parts extracted from the component side.
- $\overline{\circ}$: parts extracted from the conductor side.
- \bullet : Through hole.
- \triangle : internal component.
- \blacksquare : Pattern from the side which enables seeing.
(The other layers' patterns are not indicated.)

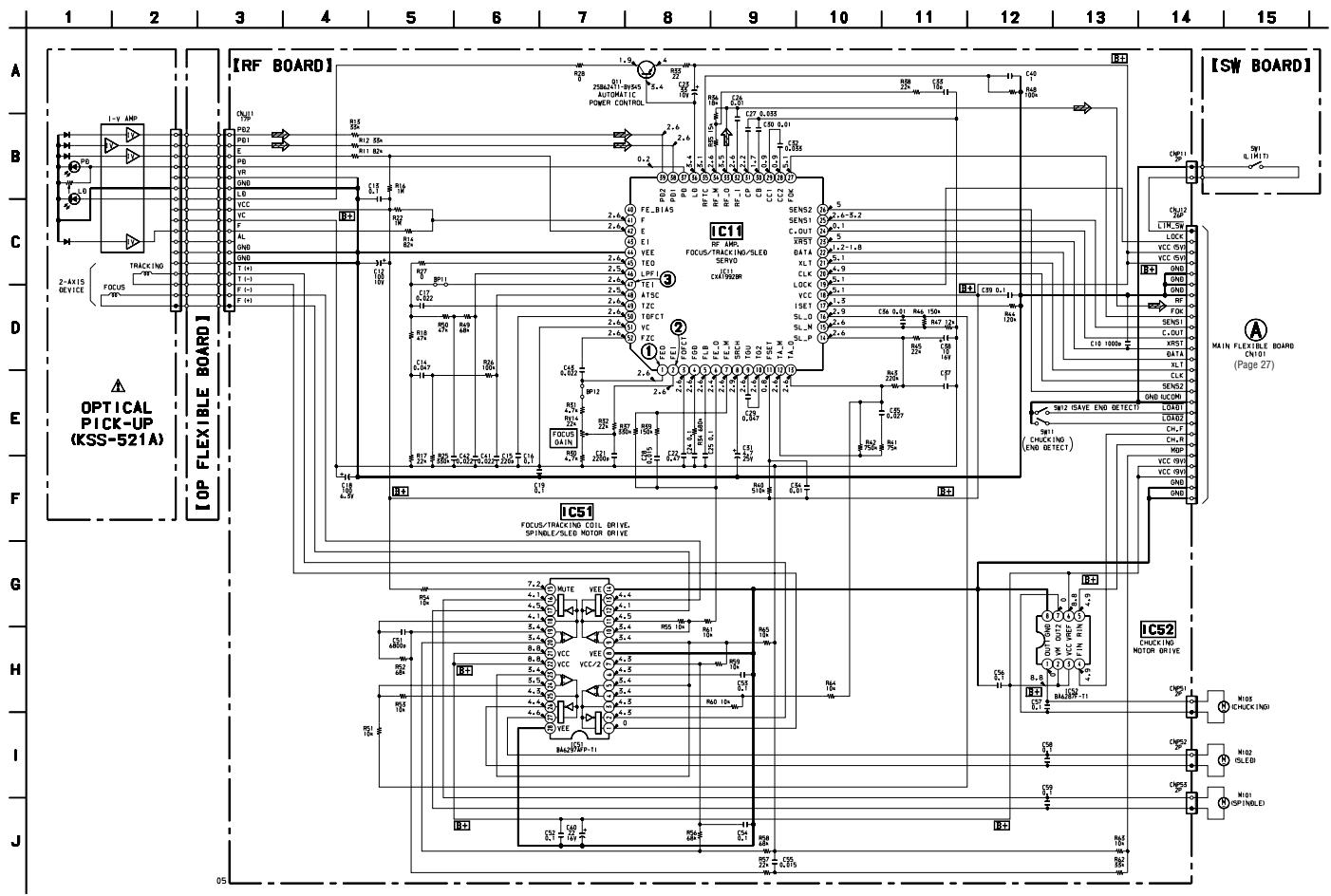
Caution:
Pattern face side: Parts on the pattern face side seen from (Conductor Side) the pattern face are indicated.
Parts face side: Parts on the parts face side seen from (Component Side) the parts face are indicated.

7-2. PRINTED WIRING BOARDS - RF Section -

• Semiconductor Location	
Ref. No.	Location
IC11	C-6
IC51	B-7
IC52	G-4
Q11	D-6



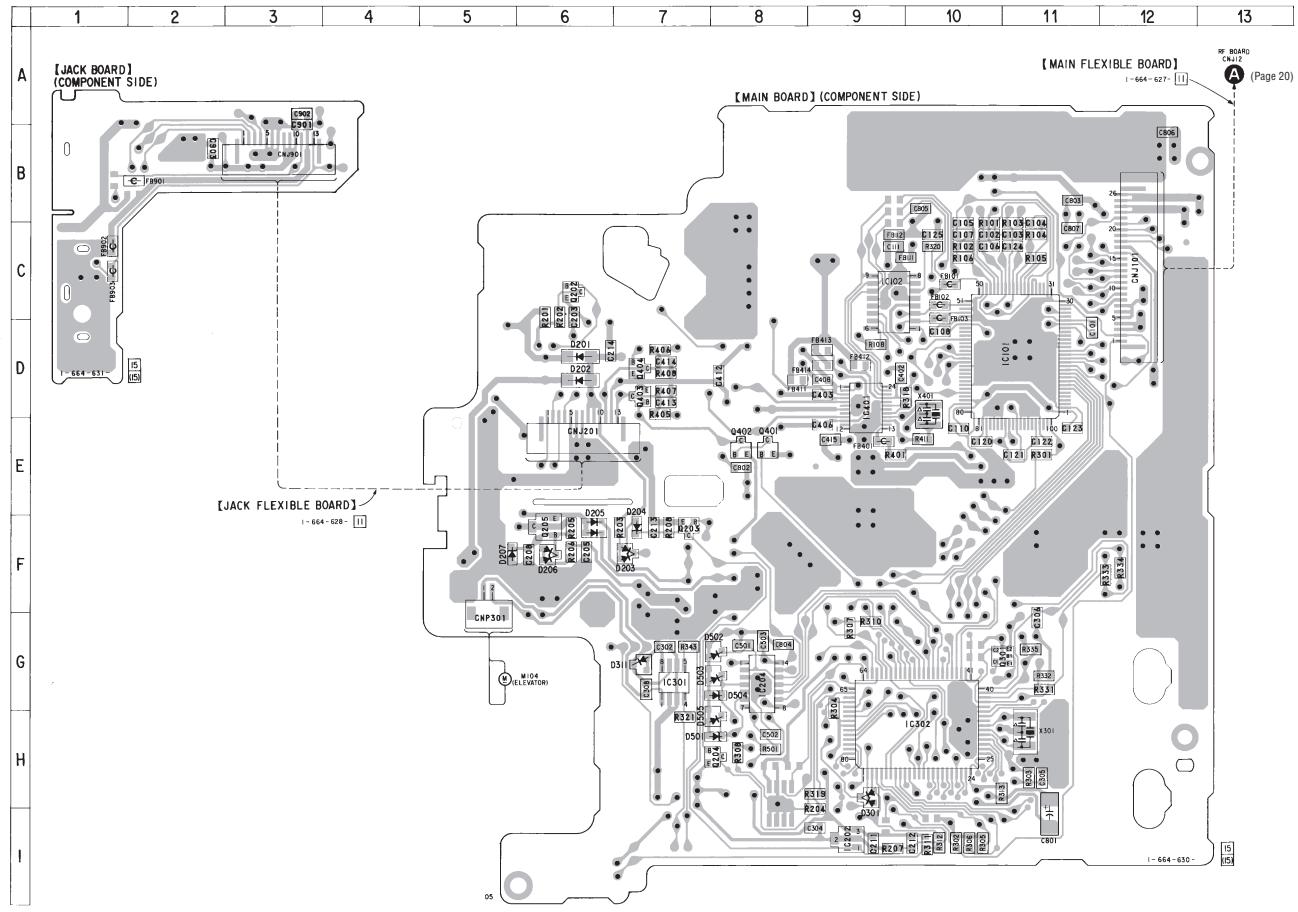
7-3. SCHEMATIC DIAGRAM – RF Section – • See page 17 for Waveforms. • See page 31 for IC Block Diagrams.



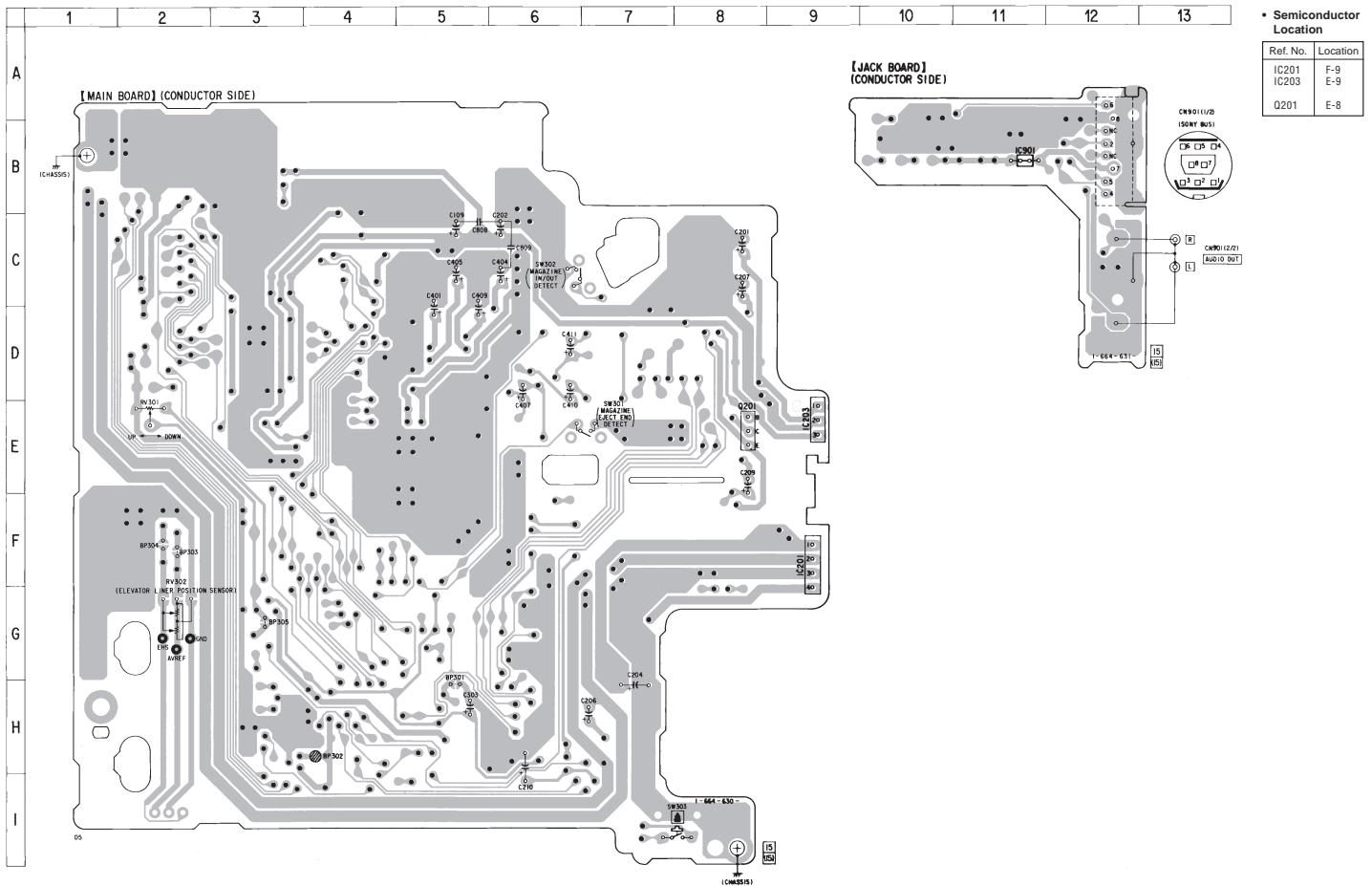
CDX-605

7-4. PRINTED WIRING BOARDS - MAIN/JACK BOARD (Component side) -

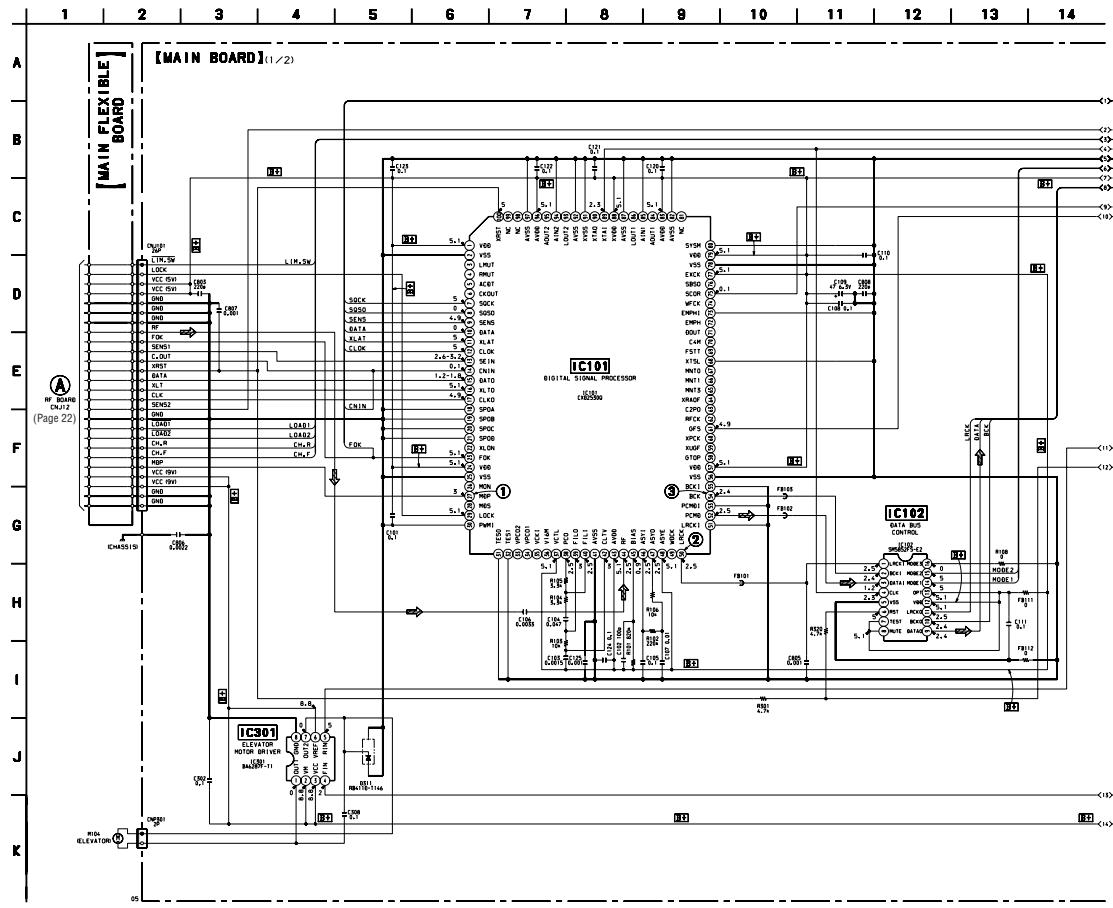
• Semiconductor Location	
Ref. No.	Location
D201	D-6
D202	D-6
D203	F-7
D204	F-7
D205	F-6
D206	F-6
D207	F-5
D208	G-7
D311	C-7
D501	H-8
D502	G-8
D503	G-8
D504	G-8
D505	H-8
I1C01	D-11
I1C02	C-9
I1C02	I-9
I1C04	G-8
I1C01	G-7
I1C02	H-10
I1C01	D-9
O002	C-6
O003	F-7
O004	H-8
O005	F-6
O301	G-11
O401	E-8
O402	E-8
O403	D-7
O404	D-7



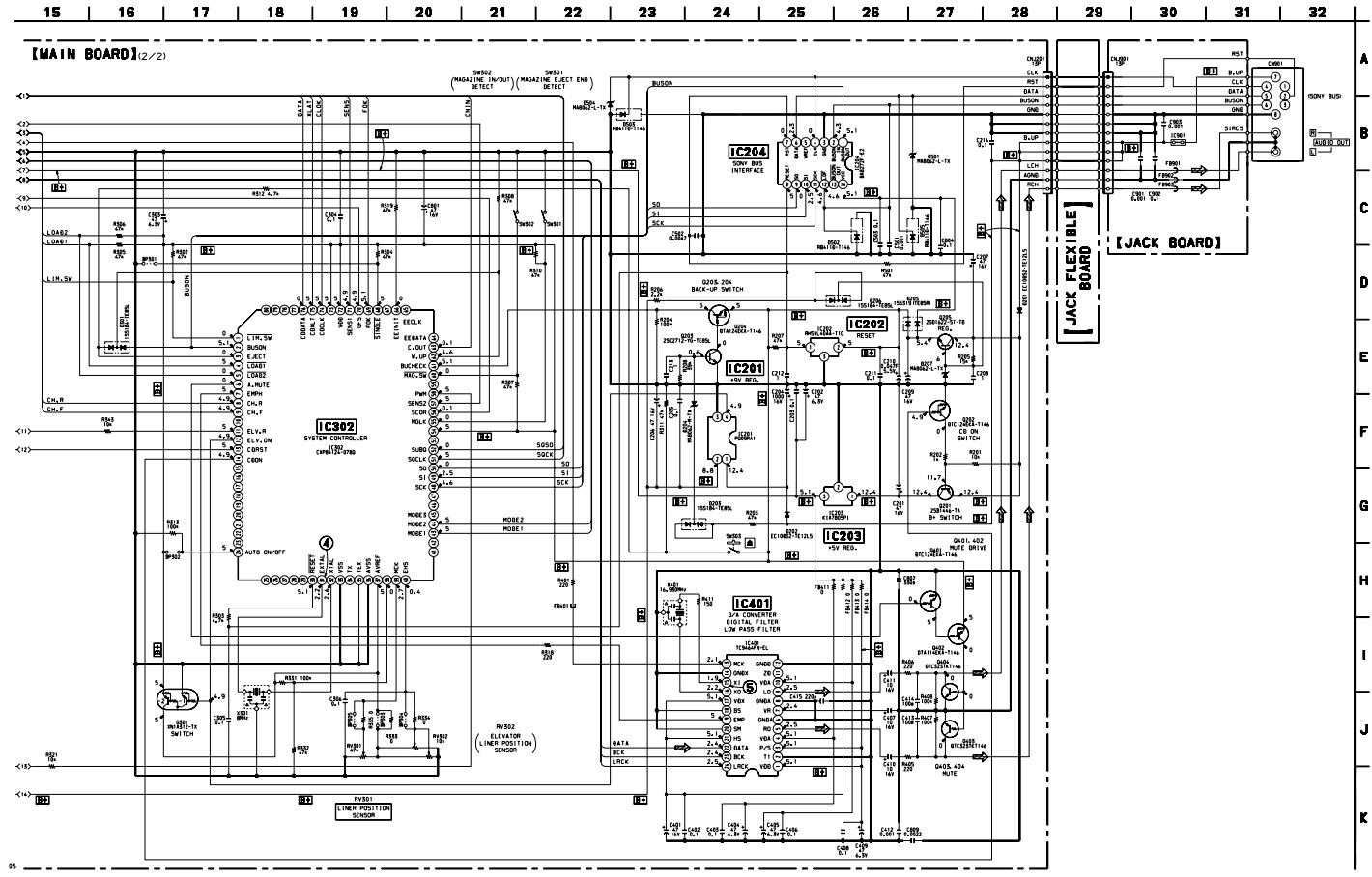
7-5. PRINTED WIRING BOARDS - MAIN/JACK BOARD (Conductor side) -



7-6. SCHEMATIC DIAGRAM – MAIN Section (1/2) – • See page 17 for Waveforms. • See page 31 for IC Block Diagrams.

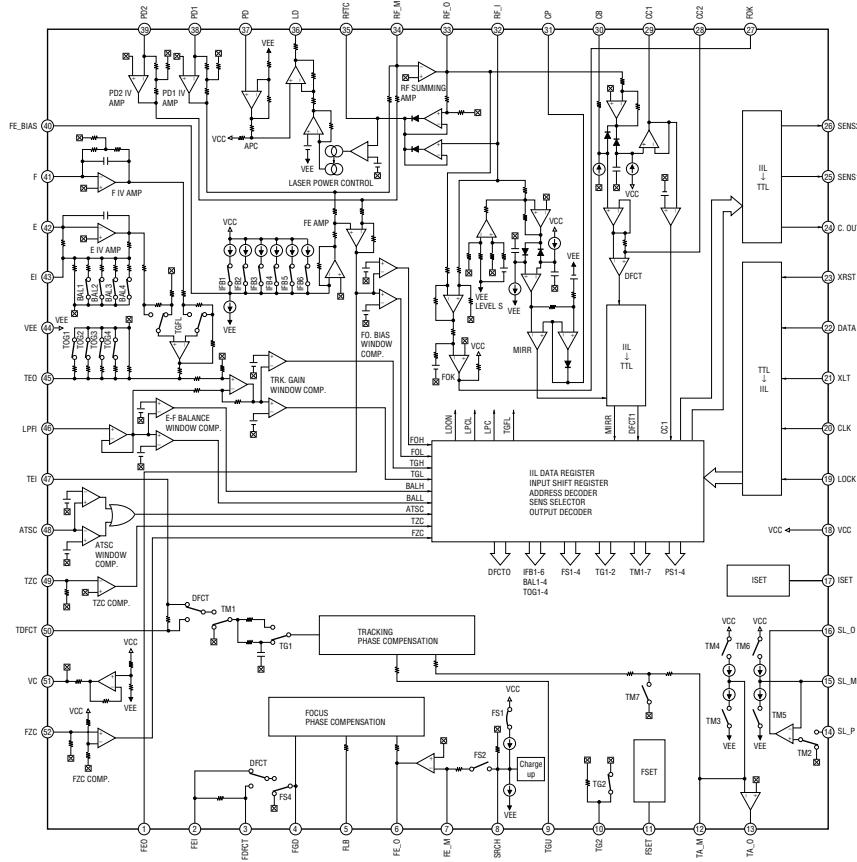


7-7. SCHEMATIC DIAGRAM – MAIN Section (2/2) – * See page 17 for Waveforms. * See page 31 for IC Block Diagrams.



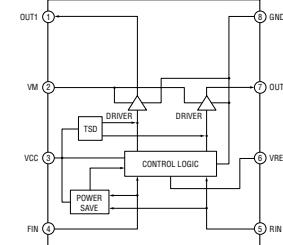
- IC Block Diagrams

IC11 CXA1992BR (RF BOARD)

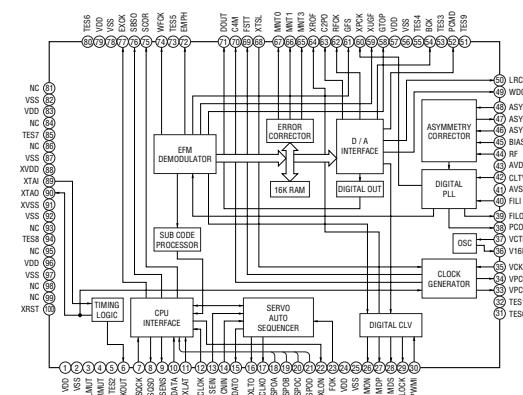


IC52 BA6287F (RF BOARD)

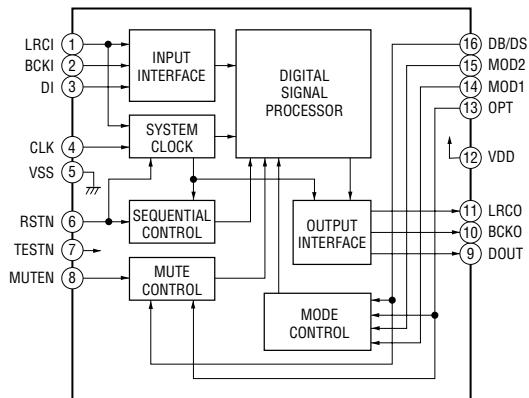
IC301 BA6287F (MAIN BOARD)



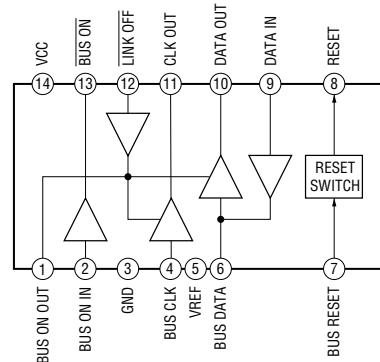
IC101 CXD2530Q (MAIN BOARD)



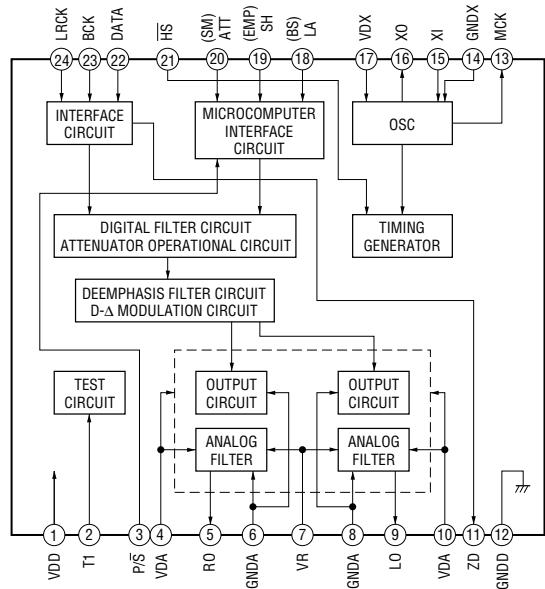
IC102 SM5852FS-E2 (MAIN BOARD)



IC204 BA8272F-E2 (MAIN BOARD)



IC401 TC9464FN-EL (MAIN BOARD)



7-8. IC PIN FUNCTION DESCRIPTION

• MAIN BOARD IC302 CXP84124-078Q (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Function
1	<u>LIM.SW</u>	I	Sled limit in detect switch (SW1) input terminal “L”: When the optical pick-up is inner position
2	BUSON	I	Bus on/off control signal input from the SONY bus interface (IC204) “H”: bus on
3	EJECT	I	Eject switch (SW303) input terminal “H” active
4	<u>LOAD1</u>	I	Save end detect switch (SW12) input terminal “L”: When completion of the disc chucking operation
5	<u>LOAD2</u>	I	Chuck end detect switch (SW11) input terminal “L”: When completion of the disc chucking operation
6	A.MUTE	O	Audio line muting on/off control signal output terminal “H”: muting on
7	EMPH	O	Emphasis mode output to the D/A converter (IC401) “L”: emphasis on
8	CH.R	O	Motor drive signal (save direction) output to the chucking motor drive (IC52) “H” active *1
9	CH.F	O	Motor drive signal (load chucking direction) output to the chucking motor drive (IC52) “H” active *1
10	—	O	Not used (open)
11	ELV.R	O	Motor drive signal (elevator down direction) output to the elevator motor drive (IC301) “L” active *2
12	ELV.ON	O	Mechanism deck section power supply on/off control signal output “H”: power on
13	<u>CD RST</u>	O	System reset signal output to the CXA1992AR (IC11), CXD2530Q (IC101) and SM5852FS (IC102) “L”: reset
14	CDON	O	D/A converter and servo section power supply on/off control signal output “H”: power on
15 to 23	—	O	Not used (open)
24	AUTO ON/OFF	I	Setting terminal for the automatic adjustment “L”: automatic adjustment, “H”: manual adjustment (solder across the BP302 terminal) Normally: fixed at “L”
25 to 29	—	O	Not used (open)
30	<u>RESET</u>	I	System reset signal input from the reset signal generator (IC202) and SONY bus interface (IC204) “L”: reset For several hundreds msec. after the power supply rises, “L” is input, then it changes to “H”
31	EXTAL	I	Main system clock input terminal (8 MHz)
32	XTAL	O	Main system clock output terminal (8 MHz)
33	VSS	—	Ground terminal
34	TX	O	Sub system clock output terminal Not used (open)
35	TEX	I	Sub system clock input terminal Not used (fixed at “L”)
36	AVSS	—	Ground terminal (for A/D converter)
37	AVREF	I	Reference voltage (+5V) input terminal (for A/D converter)
38	ATRIBT	I	Selection input of the custom file, D-BASS, etc.
39	MCK	I	Input of signal for the fine adjustment (linear position sensor adjustment; RV301) of elevator position (A/D input)
40	EHS	I	Elevator height position detect input from the RV302 (elevator height sensor) (A/D input)
41	H.TEMP	I	High temperature sensor input terminal Not used (open)
42	—	O	Not used (open)
43	MODE1	O	D-BASS control signal output to the SM5852FS (IC102)
44	MODE2	O	D-BASS control signal output to the SM5852FS (IC102)
45	MODE3	O	D-BASS control signal output Not used (open)
46, 47	—	O	Not used (open)
48	SCK	I	Serial data transfer clock signal input from the SONY bus interface (IC204)
49	SI	I	Serial data input from the SONY bus interface (IC204)

Pin No.	Pin Name	I/O	Function
50	SO	O	Serial data output to the SONY bus interface (IC204)
51	SQCLK	O	Subcode Q data reading clock signal output to the CXD2530Q (IC101)
52	SUBQ	I	Subcode Q data input from the CXD2530Q (IC101)
53	—	O	Not used (open)
54	—	I	Not used (fixed at “H”)
55	MGLK	I	Magazine eject operation completion detect switch (SW301) input terminal “L”: eject completed
56	SCOR	I	Subcode sync (S0+S1) detection signal input from the CXD2530Q (IC101)
57	SENS2	I	Internal status signal (sense signal) input from the CXA1992AR (IC11)
58	PWM	O	Motor drive signal (elevator up direction) output to the elevator motor drive (IC301) “L” active *2
59	—	O	Not used (open)
60	<u>MAG.SW</u>	I	Magazine in/out detect switch (SW302) input terminal “L”: magazine detected
61	BUCHECK	I	Battery detection signal input terminal “H”: battery on
62	W.UP	I	Bus on or eject switch (SW303) input terminal “H”: bus on or eject switch pushing
63	C.OUT	I	Track number count signal input from the CXA1992AR (IC11)
64	EEDATA	I/O	Two-way data bus with the EEPROM Not used (open)
65	EECLK	O	Serial clock signal output to the EEPROM Not used (open)
66	EEINIT	I	Initialize signal input for the EEPROM “H”: format Fixed at “L” in this set
67	—	O	Not used (open)
68	<u>SINGLE</u>	I	Setting terminal for the single disc/multiple discs mode “L”: single mode, “H”: multiple discs mode (fixed at “H”)
69	FOK	I	Focus OK signal input from the CXA1992AR (IC11) “L”: NG, “H”: OK
70	GFS	I	Guard frame sync signal input from the CXD2530Q (IC101) “L”: NG, “H”: OK
71	SENS1	I	Internal status signal (sense signal) input from the CXD2530Q (IC101)
72	VDD	—	Power supply terminal (+5V)
73	NC (VDD)	—	Connected to the power supply (+5V)
74	CDCLK	O	Serial data transfer clock signal output to the CXD2530Q (IC101)
75	CDXLT	O	Serial data latch pulse signal output to the CXD2530Q (IC101)
76	CDDATA	O	Serial data output to the CXD2530Q (IC101)
77 to 80	—	O	Not used (open)

*1 chucking motor (M103) control

Mode Terminal	STOP	LOAD CHUCKING	SAVE	BRAKE
CH.F (pin ⑨)	“L”	“H”	“L”	“H”
CH.R (pin ⑧)	“L”	“L”	“H”	“H”

*2 elevator motor (M104) control

Mode Terminal	STOP	ELEVATOR UP	ELEVATOR DOWN	BRAKE
PWM (pin ⑯)	“H”	“L”	“H”	“L”
ELV.R (pin ⑪)	“H”	“H”	“L”	“L”

SECTION 8

EXPLODED VIEWS

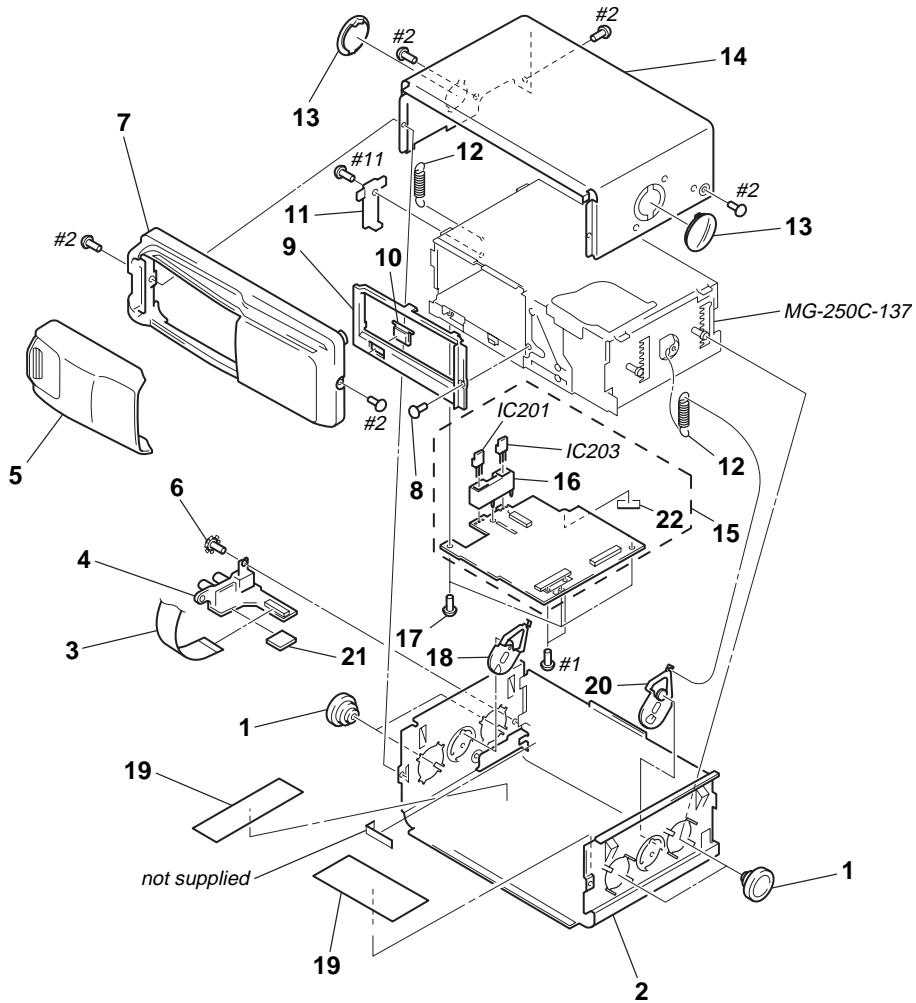
NOTE:

- -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.
- Hardware (# mark) list and accessories and packing materials are given in the last of the electrical parts list.

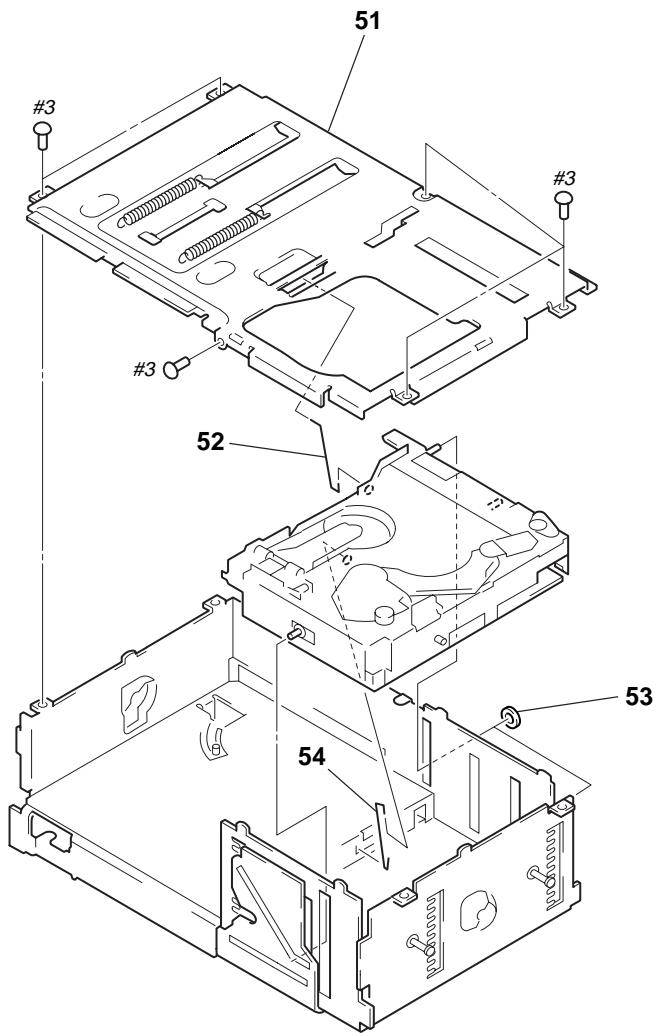
The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.
Replace only with part number specified.

(1) COVER SECTION



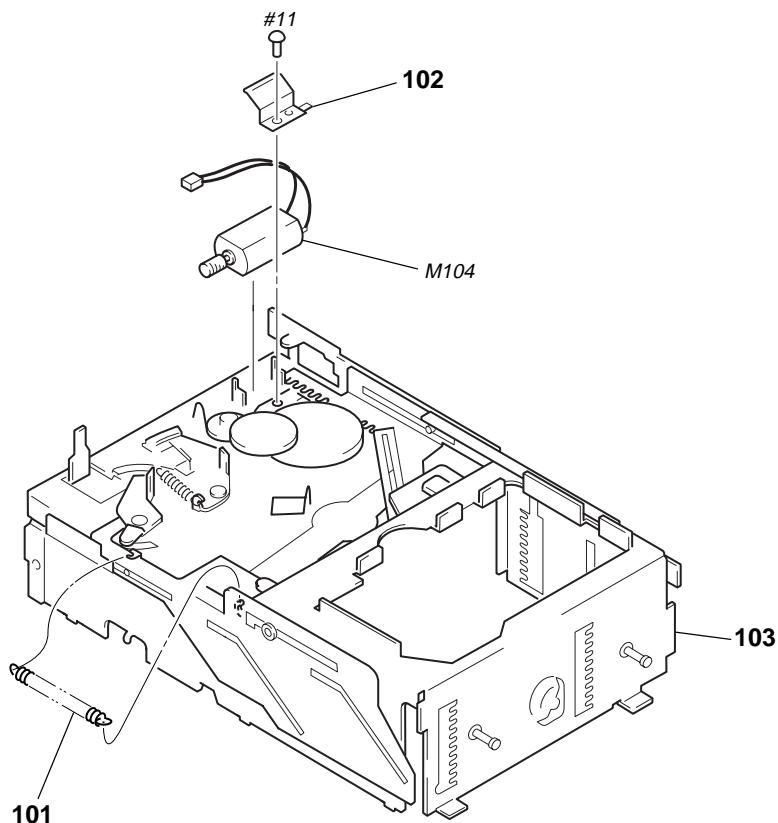
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	3-010-104-01	DAMPER (250)		13	3-010-101-11	LEVER (FLT)	
* 2	3-010-097-41	COVER (LOWER)		* 14	3-010-096-41	COVER (UPPER)	
3	1-664-628-11	JACK FLEXIBLE BOARD		* 15	A-3317-257-A	MAIN BOARD, COMPLETE	
* 4	1-664-631-15	JACK BOARD		* 16	3-022-694-01	HOLDER (TR3)	
5	X-3375-359-2	DOOR (T) ASSY		17	3-935-636-11	SCREW (FP)	
6	3-376-464-11	SCREW (+PTT 2.6X6), GROUND POINT		18	X-3375-357-1	ARM (FLT) ASSY	
7	3-022-002-01	PANEL (T), FRONT		19	3-013-658-01	SHEET (FJT), PROTECTION	
8	3-012-388-01	SCREW (M2X3)		20	X-3375-360-1	ARM (FRT) ASSY	
9	3-022-006-01	ESCUOTCHEON (T)		21	3-350-124-01	CUSHION (EJECT)	
10	3-022-007-01	BUTTON (EJT) (\triangle)		* 22	3-016-116-01	TAPE (D), MOUNT	
* 11	3-022-012-01	HEAT SINK (T)		IC201	8-759-054-12	IC PQ09RA1	
12	3-010-103-01	SPRING (FL), TENSION		IC203	8-759-324-40	IC KIA7805PI	

**(2) MECHANISM DECK SECTION-1
(MG-250C-137)**



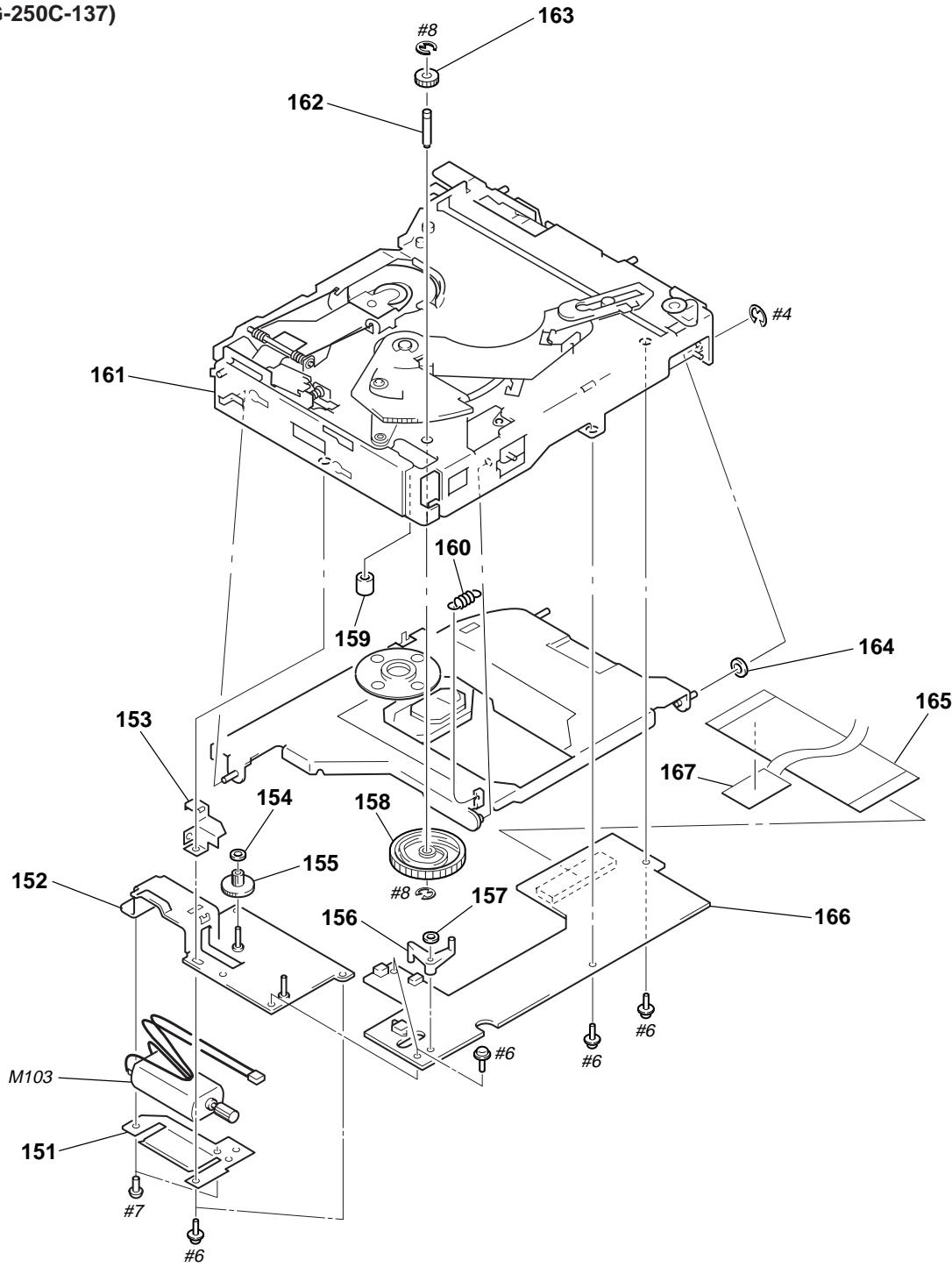
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	X-3375-497-1	CHASSIS (U) SUB ASSY		53	4-965-759-01	WASHER, POLYETHYLENE	
52	3-024-161-01	SPRING (SUT)		54	3-011-997-01	SPRING (STOPPER. LOWER)	

**(3) MECHANISM DECK SECTION-2
(MG-250C-137)**



<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
101	3-024-170-01	SPRING (SB), TENSION		103	X-3375-498-1	CHASSIS (D) SUB ASSY	
* 102	3-024-172-01	BRACKET (EVM)		M104	A-3301-123-A	ELJ MOTOR ASSY (ELEVATOR)	

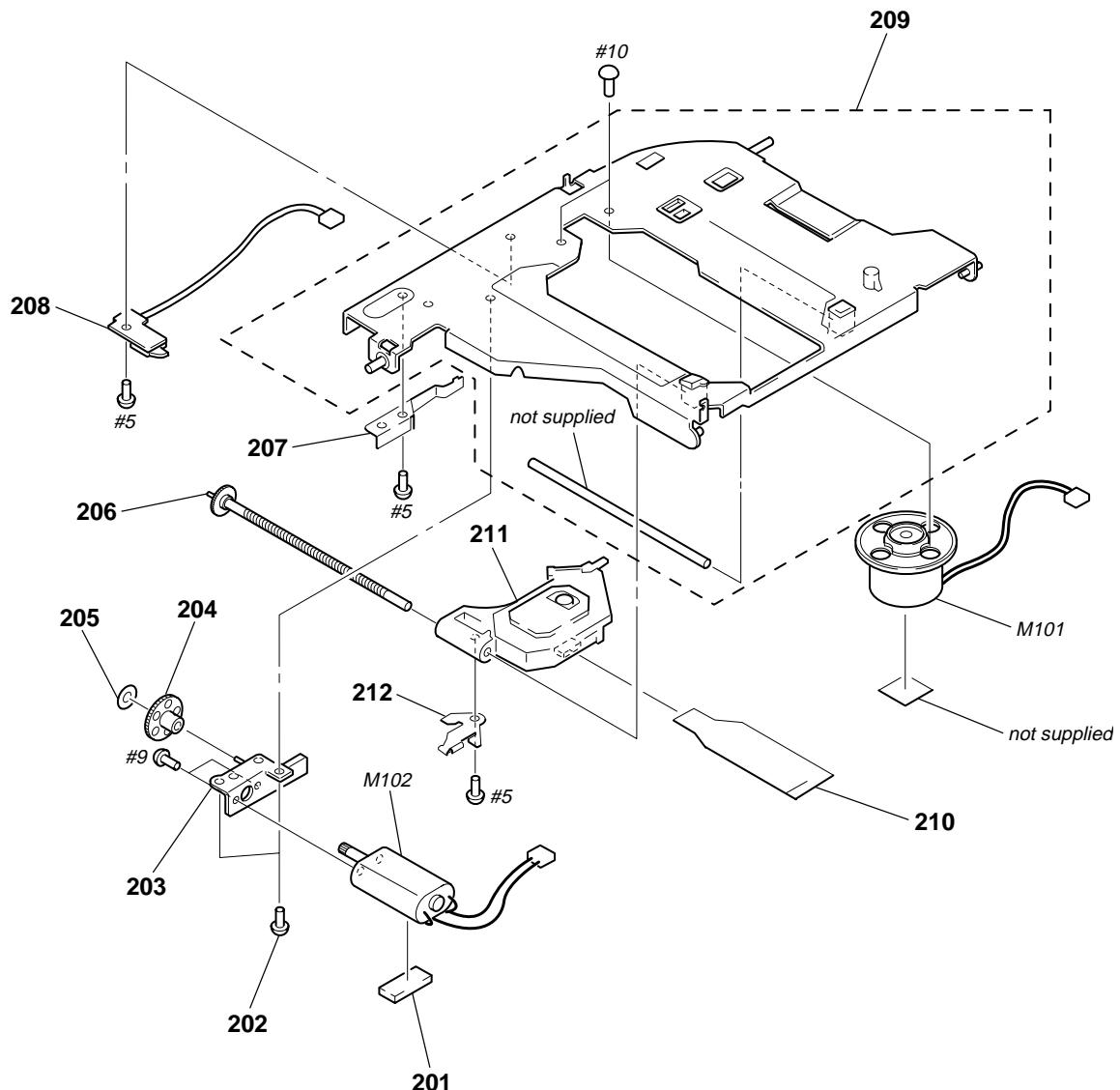
(4) MECHANISM DECK SECTION-3
(MG-250C-137)



Ref. No.	Part No.	Description
* 151	3-024-150-01	RETAINER (CHM)
* 152	X-3375-445-1	BRACKET (CHM) ASSY
153	3-010-270-01	COVER (CHM)
154	3-321-813-01	WASHER, COTTER POLYETHYLENE
155	3-017-139-01	GEAR (WORM LOAD A)
156	3-010-255-01	ARM (LSW)
157	3-573-936-00	STOPPER, REEL
158	X-3373-552-1	GEAR (LOAD 1) ASSY
159	3-010-252-01	ROLLER (CRE)

Ref. No.	Part No.	Description
160	3-010-268-01	SPRING (DH), TENSION
* 161	A-3290-194-D	CHASSIS (EVY) (MAIN) ASSY
162	3-010-254-01	SHAFT (ROTARY PREVENTION C)
163	3-010-253-01	GEAR (LOMINI)
164	3-701-438-11	WASHER, 2.5
165	1-664-627-11	MAIN FLEXIBLE BOARD
* 166	A-3313-586-A	RF BOARD, COMPLETE
167	3-911-215-02	SHEET (LEAD RETAINER)
M103	A-3291-953-A	MOTOR ASSY, EL (CHUCKING)

(5) MECHANISM DECK SECTION-4
(MG-250C-137)



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
201	3-911-215-02	SHEET (LEAD RETAINER)		* 208	1-664-104-11	SW BOARD	
202	3-920-362-01	SCREW (ESCIUTCHEON)		* 209	A-3301-077-A	BASE (OPT) (J) ASSY	
203	X-3373-229-1	BASE (SLED) ASSY		210	1-664-626-11	OP FLEXIBLE BOARD	
204	3-010-258-01	GEAR (SLED MID)		△ 211	8-820-010-05	OPTICAL PICK-UP KSS-521A/J2RP	
205	3-573-936-00	STOPPER, REEL		212	3-010-262-01	DETENT (SLED)	
206	A-3291-958-A	SHAFT (SLED) ASSY		M101	A-3291-956-A	MOTOR SUB ASSY, SPINDLE	
207	3-010-263-01	DETENT (SHAFT THRUST)		M102	A-3291-955-A	MOTOR SUB ASSY, SLED	

SECTION 9

ELECTRICAL PARTS LIST

JACK

MAIN

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. . : μ A. . uPA. . : μ PA. .

uPB. . : μ PB. . uPC. . : μ PC. .

uPD. . : μ PD. .

• **CAPACITORS**

uF: μ F

• **COILS**

uH: μ H

The components identified by mark \triangle or dotted line with mark \triangle 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	Ref. No.	Part No.	Description	Remark
*	1-664-631-15	JACK BOARD *****		C125	1-163-009-11	CERAMIC CHIP	0.001uF 10% 50V
		< CAPACITOR >		C201	1-124-589-11	ELECT	47uF 20% 16V
C901	1-163-009-11	CERAMIC CHIP	0.001uF 10% 50V	C202	1-126-513-11	ELECT	47uF 20% 6.3V
C902	1-163-038-00	CERAMIC CHIP	0.1uF 25V	C203	1-163-038-00	CERAMIC CHIP	0.1uF 25V
C903	1-163-009-11	CERAMIC CHIP	0.001uF 10% 50V	C204	1-115-466-11	ELECT	1000uF 20% 16V
		< CONNECTOR >		C205	1-163-038-00	CERAMIC CHIP	0.1uF 25V
CN901	1-779-077-41	PLUG, CONNECTOR (SONY BUS, AUDIO OUT)		C206	1-124-589-11	ELECT	47uF 20% 16V
CNJ901	1-778-775-21	CONNECTOR, FPC 13P		C207	1-124-589-11	ELECT	47uF 20% 16V
		< FERRITE BEAD >		C208	1-164-346-11	CERAMIC CHIP	1uF 16V
FB901	1-500-445-21	FERRITE	0uH	C209	1-124-589-11	ELECT	47uF 20% 16V
FB902	1-500-445-21	FERRITE	0uH	C210	1-125-701-11	DOUBLE LAYER	0.047F 5.5V
FB903	1-500-445-21	FERRITE	0uH	C211	1-163-038-00	CERAMIC CHIP	0.1uF 25V
		< IC LINK >		C212	1-164-346-11	CERAMIC CHIP	1uF 16V
IC901	1-532-686-21	LINK, IC		C213	1-164-346-11	CERAMIC CHIP	1uF 16V
		*****		C214	1-163-038-00	CERAMIC CHIP	0.1uF 25V
*	A-3317-257-A	MAIN BOARD, COMPLETE	*****	C302	1-163-038-00	CERAMIC CHIP	0.1uF 25V
*	3-022-694-01	HOLDER (TR3)		C303	1-126-513-11	ELECT	47uF 20% 6.3V
*	3-016-116-01	TAPE (D), MOUNT		C304	1-163-038-00	CERAMIC CHIP	0.1uF 25V
		< CAPACITOR >		C305	1-163-038-00	CERAMIC CHIP	0.1uF 25V
C101	1-163-038-00	CERAMIC CHIP	0.1uF 25V	C306	1-163-038-00	CERAMIC CHIP	0.1uF 25V
C102	1-163-251-11	CERAMIC CHIP	100PF 5% 50V	C308	1-163-038-00	CERAMIC CHIP	0.1uF 25V
C103	1-163-011-11	CERAMIC CHIP	0.0015uF 10% 50V	C401	1-124-589-11	ELECT	47uF 20% 16V
C104	1-163-809-11	CERAMIC CHIP	0.047uF 10% 25V	C402	1-163-038-00	CERAMIC CHIP	0.1uF 25V
C105	1-164-004-11	CERAMIC CHIP	0.1uF 10% 25V	C403	1-163-038-00	CERAMIC CHIP	0.1uF 25V
C106	1-164-182-11	CERAMIC CHIP	0.0033uF 10% 50V	C404	1-126-513-11	ELECT	47uF 20% 6.3V
C107	1-163-021-11	CERAMIC CHIP	0.01uF 10% 50V	C405	1-126-513-11	ELECT	47uF 20% 6.3V
C108	1-163-038-00	CERAMIC CHIP	0.1uF 25V	C406	1-163-038-00	CERAMIC CHIP	0.1uF 25V
C109	1-126-513-11	ELECT	47uF 20% 6.3V	C407	1-126-157-11	ELECT	10uF 20% 16V
C110	1-163-038-00	CERAMIC CHIP	0.1uF 25V	C408	1-163-038-00	CERAMIC CHIP	0.1uF 25V
C111	1-163-038-00	CERAMIC CHIP	0.1uF 25V	C409	1-126-513-11	ELECT	47uF 20% 6.3V
C120	1-163-038-00	CERAMIC CHIP	0.1uF 25V	C410	1-126-157-11	ELECT	10uF 20% 16V
C121	1-163-038-00	CERAMIC CHIP	0.1uF 25V	C411	1-126-157-11	ELECT	10uF 20% 16V
C122	1-163-038-00	CERAMIC CHIP	0.1uF 25V	C412	1-163-009-11	CERAMIC CHIP	0.001uF 10% 50V
C123	1-163-038-00	CERAMIC CHIP	0.1uF 25V	C413	1-163-251-11	CERAMIC CHIP	100PF 5% 50V
C124	1-163-038-00	CERAMIC CHIP	0.1uF 25V	C414	1-163-251-11	CERAMIC CHIP	100PF 5% 50V
				C415	1-163-259-11	CERAMIC CHIP	220PF 5% 50V
				C501	1-163-009-11	CERAMIC CHIP	0.001uF 10% 50V
				C502	1-163-029-11	CERAMIC CHIP	0.0047uF 50V
				C503	1-163-038-00	CERAMIC CHIP	0.1uF 25V
				C801	1-104-823-11	TANTAL. CHIP	47uF 20% 16V
				C802	1-163-263-11	CERAMIC CHIP	330PF 5% 50V
				C803	1-163-259-11	CERAMIC CHIP	220PF 5% 50V
				C804	1-163-038-00	CERAMIC CHIP	0.1uF 25V
				C805	1-163-009-11	CERAMIC CHIP	0.001uF 10% 50V

MAIN

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
C806	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V	Q404	8-729-015-39	TRANSISTOR	DTC323TK		
C807	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V			< RESISTOR >			
C808	1-162-286-21	CERAMIC	220PF F	10%	50V	R101	1-216-119-00	METAL CHIP	820K	5%	1/10W
C809	1-162-302-11	CERAMIC	0.0022uF	30%	16V	R102	1-216-105-00	RES, CHIP	220K	5%	1/10W
		< CONNECTOR >				R103	1-216-073-00	METAL CHIP	10K	5%	1/10W
CNJ101	1-770-351-11	CONNECTOR, FPC 26P				R104	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
CNJ201	1-770-350-21	CONNECTOR, FPC 13P				R105	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
CNP301	1-580-055-21	PIN, CONNECTOR 2P				R106	1-216-073-00	METAL CHIP	10K	5%	1/10W
		< DIODE >				R108	1-216-295-00	SHORT	0		
D201	8-719-210-33	DIODE	EC10DS2			R201	1-216-073-00	METAL CHIP	10K	5%	1/10W
D202	8-719-210-33	DIODE	EC10DS2			R202	1-216-049-11	RES, CHIP	1K	5%	1/10W
D203	8-719-801-78	DIODE	ISS184			R203	1-216-089-00	RES, CHIP	47K	5%	1/10W
D204	8-719-422-64	DIODE	MA8062-M			R204	1-216-097-00	RES, CHIP	100K	5%	1/10W
D205	8-719-038-48	DIODE	ISS319 (TE85R)			R205	1-216-077-00	METAL CHIP	15K	5%	1/10W
D206	8-719-801-78	DIODE	ISS184			R206	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
D207	8-719-422-62	DIODE	MA8062-L-TX			R207	1-216-089-00	RES, CHIP	47K	5%	1/10W
D301	8-719-801-78	DIODE	ISS184			R208	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
D311	8-719-975-40	DIODE	RB411D			R301	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
D501	8-719-422-62	DIODE	MA8062-L-TX			R302	1-216-089-00	RES, CHIP	47K	5%	1/10W
D502	8-719-975-40	DIODE	RB411D			R303	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
D503	8-719-975-40	DIODE	RB411D			R304	1-216-089-00	RES, CHIP	47K	5%	1/10W
D504	8-719-422-62	DIODE	MA8062-L-TX			R305	1-216-089-00	RES, CHIP	47K	5%	1/10W
D505	8-719-975-40	DIODE	RB411D			R306	1-216-089-00	RES, CHIP	47K	5%	1/10W
		< FERRITE BEAD >				R307	1-216-089-00	RES, CHIP	47K	5%	1/10W
FB101	1-500-445-21	FERRITE	0uH			R308	1-216-089-00	RES, CHIP	47K	5%	1/10W
FB102	1-500-445-21	FERRITE	0uH			R310	1-216-089-00	RES, CHIP	47K	5%	1/10W
FB103	1-500-445-21	FERRITE	0uH			R311	1-216-089-00	RES, CHIP	47K	5%	1/10W
FB111	1-216-295-00	SHORT	0			R312	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
FB112	1-216-295-00	SHORT	0			R313	1-216-097-00	RES, CHIP	100K	5%	1/10W
						R318	1-216-033-00	METAL CHIP	220	5%	1/10W
						R319	1-216-089-00	RES, CHIP	47K	5%	1/10W
FB401	1-500-445-21	FERRITE	0uH			R320	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
FB411	1-216-295-00	SHORT	0			R321	1-216-073-00	METAL CHIP	10K	5%	1/10W
FB412	1-216-295-00	SHORT	0			R331	1-216-097-00	RES, CHIP	100K	5%	1/10W
FB413	1-216-295-00	SHORT	0			R332	1-216-089-00	RES, CHIP	47K	5%	1/10W
FB414	1-216-295-00	SHORT	0			R333	1-216-295-00	SHORT	0		
		< IC >				R334	1-216-295-00	SHORT	0		
IC101	8-752-384-15	IC	CXD2530Q			R335	1-216-295-00	SHORT	0		
IC102	8-759-537-11	IC	SM5852FS-E2			R343	1-216-073-00	METAL CHIP	10K	5%	1/10W
IC201	8-759-054-12	IC	PQ09RA1			R401	1-216-033-00	METAL CHIP	220	5%	1/10W
IC202	8-759-443-41	IC	RH5VL40AA-T1C			R405	1-216-033-00	METAL CHIP	220	5%	1/10W
IC203	8-759-324-40	IC	KIA7805PI			R406	1-216-033-00	METAL CHIP	220	5%	1/10W
						R407	1-216-097-00	RES, CHIP	100K	5%	1/10W
IC204	8-759-444-86	IC	BA8272F-E2			R408	1-216-097-00	RES, CHIP	100K	5%	1/10W
IC301	8-759-040-83	IC	BA6287F			R411	1-216-029-00	METAL CHIP	150	5%	1/10W
IC302	8-752-898-75	IC	CXP84124-078Q			R501	1-216-089-00	RES, CHIP	47K	5%	1/10W
IC401	8-759-494-78	IC	TC9464FN-EL								
		< TRANSISTOR >									
Q201	8-729-016-83	TRANSISTOR	2SB1446					< VARIABLE RESISTOR >			
Q202	8-729-901-00	TRANSISTOR	DTC124EK			RV301	1-223-834-11	RES, ADJ, CARBON	47K		
Q203	8-729-230-49	TRANSISTOR	2SC2712-YG			RV302	1-225-412-11	RES, VAR, SLIDE	10K		
Q204	8-729-027-31	TRANSISTOR	DTA124EKA-T146					(ELEVATOR HEIGHT SENSOR)			
Q205	8-729-822-05	TRANSISTOR	2SD1622-ST-TD								
Q301	8-729-020-67	TRANSISTOR	XN1A312-TX					< SWITCH >			
Q401	8-729-901-00	TRANSISTOR	DTC124EK			SW301	1-762-108-31	SWITCH, PUSH (1 KEY)			
Q402	8-729-027-23	TRANSISTOR	DTA114EKA-T146					(MAGAZINE EJECT END DETECT)			
Q403	8-729-015-39	TRANSISTOR	DTC323TK			SW302	1-762-108-31	SWITCH, PUSH (1 KEY)			
								(MAGAZINE IN/OUT DETECT)			

Ref. No.	Part No.	Description			Remark		Ref. No.	Part No.	Description			Remark		
SW303	1-571-532-21	SWITCH, TACTIL (▲)					CNP51	1-580-055-21	PIN, CONNECTOR 2P					
		< VIBRATOR >					CNP52	1-580-055-21	PIN, CONNECTOR 2P					
X301	1-767-261-21	VIBRATOR, CERAMIC (8MHz)					CNP53	1-580-055-21	PIN, CONNECTOR 2P					
X401	1-767-511-11	VIBRATOR, CERAMIC (16.930MHz)							< IC >					
*	A-3313-586-A	RF BOARD, COMPLETE					IC11	8-752-082-14	IC CXA1992BR					
		*****					IC51	8-759-071-79	IC BA6297AFP					
		< CAPACITOR >					IC52	8-759-040-83	IC BA6287F					
									< TRANSISTOR >					
C10	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V		Q11	8-729-141-48	TRANSISTOR	2SB624-BV345				
C12	1-113-500-11	TANTAL. CHIP	100uF	20%	10V				< RESISTOR >					
C13	1-163-038-00	CERAMIC CHIP	0.1uF		25V		R11	1-216-844-11	METAL CHIP	82K	5%	1/16W		
C14	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V		R12	1-216-839-11	METAL CHIP	33K	5%	1/16W		
C15	1-162-957-11	CERAMIC CHIP	220PF	5%	50V		R13	1-216-839-11	METAL CHIP	33K	5%	1/16W		
C16	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		R14	1-216-844-11	METAL CHIP	82K	5%	1/16W		
C17	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V		R16	1-216-857-11	METAL CHIP	1M	5%	1/16W		
C18	1-111-253-11	TANTAL. CHIP	100uF	20%	6.3V									
C19	1-163-038-00	CERAMIC CHIP	0.1uF		25V		R17	1-216-837-11	METAL CHIP	22K	5%	1/16W		
C21	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V		R18	1-216-841-11	METAL CHIP	47K	5%	1/16W		
C22	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V		R22	1-216-857-11	METAL CHIP	1M	5%	1/16W		
C23	1-113-682-11	TANTAL. CHIP	33uF	20%	10V		R25	1-216-851-11	METAL CHIP	330K	5%	1/16W		
C24	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		R26	1-216-845-11	METAL CHIP	100K	5%	1/16W		
C25	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V									
C26	1-164-232-11	CERAMIC CHIP	0.01uF		50V		R27	1-216-295-00	SHORT	0				
C27	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V		R28	1-216-295-00	SHORT	0				
C28	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V		R30	1-216-829-11	METAL CHIP	4.7K	5%	1/16W		
C29	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V		R31	1-216-829-11	METAL CHIP	4.7K	5%	1/16W		
C30	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		R32	1-216-837-11	METAL CHIP	22K	5%	1/16W		
C31	1-113-987-11	TANTAL. CHIP	4.7uF	20%	25V									
C32	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V		R33	1-216-158-00	RES, CHIP	22	5%	1/8W		
C33	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V		R34	1-216-855-11	METAL CHIP	680K	5%	1/16W		
C34	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		R35	1-216-835-11	METAL CHIP	15K	5%	1/16W		
C35	1-104-700-11	CERAMIC CHIP	0.027uF	10%	16V		R36	1-216-836-11	METAL CHIP	18K	5%	1/16W		
C36	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		R37	1-216-851-11	METAL CHIP	330K	5%	1/16W		
C37	1-109-982-11	CERAMIC CHIP	1uF	10%	10V									
C38	1-104-913-11	TANTAL. CHIP	10uF	20%	16V		R38	1-216-837-11	METAL CHIP	22K	5%	1/16W		
C39	1-163-038-00	CERAMIC CHIP	0.1uF		25V		R39	1-216-847-11	METAL CHIP	150K	5%	1/16W		
C40	1-109-982-11	CERAMIC CHIP	1uF	10%	10V		R40	1-218-273-11	RES, CHIP	510K	5%	1/16W		
C41	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V		R41	1-218-296-11	RES, CHIP	75K	5%	1/16W		
C42	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V		R42	1-202-930-11	RES, CHIP	750K	5%	1/16W		
C43	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V									
C44	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V		R43	1-216-849-11	METAL CHIP	220K	5%	1/16W		
C45	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V		R44	1-216-846-11	METAL CHIP	120K	5%	1/16W		
C46	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V		R45	1-216-837-11	METAL CHIP	22K	5%	1/16W		
C47	1-163-038-00	CERAMIC CHIP	0.1uF		25V		R46	1-216-847-11	METAL CHIP	150K	5%	1/16W		
C48	1-163-038-00	CERAMIC CHIP	0.1uF		25V		R47	1-216-834-11	METAL CHIP	12K	5%	1/16W		
C49	1-163-023-00	CERAMIC CHIP	0.015uF	5%	50V									
C50	1-163-038-00	CERAMIC CHIP	0.1uF		25V		R48	1-216-845-11	METAL CHIP	100K	5%	1/16W		
C51	1-163-038-00	CERAMIC CHIP	0.1uF		25V		R49	1-216-093-00	METAL CHIP	68K	5%	1/10W		
C52	1-163-038-00	CERAMIC CHIP	0.1uF		25V		R50	1-216-841-11	METAL CHIP	47K	5%	1/16W		
C53	1-163-038-00	CERAMIC CHIP	0.1uF		25V		R51	1-216-073-00	METAL CHIP	10K	5%	1/10W		
C54	1-163-038-00	CERAMIC CHIP	0.1uF		25V		R52	1-216-093-00	METAL CHIP	68K	5%	1/10W		
C55	1-163-023-00	CERAMIC CHIP	0.015uF	5%	50V									
C56	1-163-038-00	CERAMIC CHIP	0.1uF		25V		R53	1-216-073-00	METAL CHIP	10K	5%	1/10W		
C57	1-163-038-00	CERAMIC CHIP	0.1uF		25V		R54	1-216-073-00	METAL CHIP	10K	5%	1/10W		
C58	1-163-038-00	CERAMIC CHIP	0.1uF		25V		R55	1-216-073-00	METAL CHIP	10K	5%	1/10W		
C59	1-163-038-00	CERAMIC CHIP	0.1uF		25V		R56	1-216-093-00	METAL CHIP	68K	5%	1/10W		
C60	1-104-914-11	TANTAL. CHIP	22uF	20%	16V		R57	1-216-081-00	METAL CHIP	22K	5%	1/10W		
		< CONNECTOR >												
CNJ11	1-778-776-21	CONNECTOR, FPC 17P					R58	1-216-093-00	METAL CHIP	68K	5%	1/10W		
CNJ12	1-778-777-21	CONNECTOR, FPC 26P					R59	1-216-073-00	METAL CHIP	10K	5%	1/10W		
CNP11	1-580-055-21	PIN, CONNECTOR 2P					R60	1-216-073-00	METAL CHIP	10K	5%	1/10W		
							R61	1-216-073-00	METAL CHIP	10K	5%	1/10W		

CDX-605

RF **SW**

Ref. No.	Part No.	Description			Remark	
R62	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R63	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R64	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R65	1-216-073-00	METAL CHIP	10K	5%	1/10W	
			< VARIABLE RESISTOR >			
RV14	1-238-091-11	RES, ADJ, CERMET	22K			
			< SWITCH >			

SW11	1-762-946-11	SWITCH, PUSH (1 KEY) (CHUCKING END DETECT)				
SW12	1-762-946-11	SWITCH, PUSH (1 KEY) (SAVE END DETECT)				
*****	*****	*****	*****	*****	*****	
*	1-664-104-11	SW BOARD				

			< SWITCH >			
SW1	1-572-688-11	SWITCH, PUSH (1 KEY) (LIMIT)				

		MISCELLANEOUS			

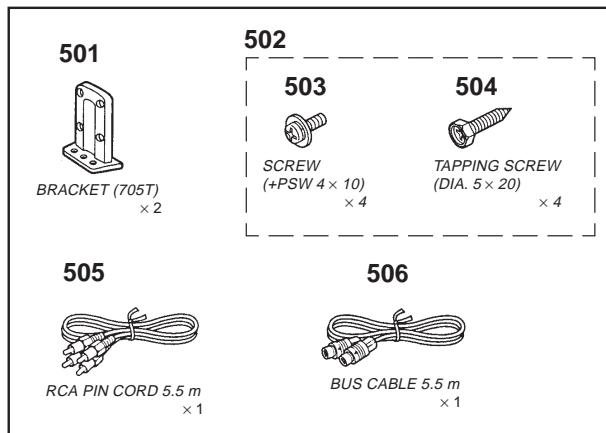
3	1-664-628-11	JACK FLEXIBLE BOARD			
165	1-664-627-11	MAIN FLEXIBLE BOARD			
210	1-664-626-11	OP FLEXIBLE BOARD			
▲211	8-820-010-05	OPTICAL PICK-UP KSS-521A/J2RP			
M101	A-3291-956-A	MOTOR SUB ASSY, SPINDLE			
M102	A-3291-955-A	MOTOR SUB ASSY, SLED			
M103	A-3291-953-A	MOTOR ASSY, EL (CHUCKING)			
M104	A-3301-123-A	ELJ MOTOR ASSY (ELEVATOR)			

#1	7-627-852-07	SCREW, PRECISION +P 1.7X2.5			
#2	7-685-792-09	SCREW +PTT 2.6X6 (S)			
#3	7-685-781-09	SCREW +PTT 2X4 (S)			
#4	7-624-104-04	STOP RING 2.0, TYPE-E			
#5	7-627-554-07	SCREW, PRECISION +P 2X2.2			
#6	7-628-253-00	SCREW +PS 2X4			
#7	7-627-553-27	SCREW, PRECISION +P 2X2.5			
#8	7-624-102-04	STOP RING 1.5, TYPE-E			
#9	7-627-850-28	SCREW, PRECISION +P 1.4X3			
#10	7-627-000-00	SCREW, PRECISION +P 1.7X2.2 TYPE3			
#11	7-685-851-04	SCREW +BVTT 2X4 (S)			

		ACCESSORIES & PACKING MATERIALS			

		3-862-311-31	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, CHINESE)		
		A-3291-950-D	MAGAZINE (250T) ASSY		

Ref. No.	Part No.	Description	Remark
		PARTS FOR INSTALLATION AND CONNECTIONS	*****
501	3-022-693-01	BRACKET (705T)	
* 502	X-3369-824-1	SCREW ASSY	
503	7-682-962-01	SCREW +PSW 4X10	
504		Not supplied	
505	1-590-874-11	CORD, CONNECTION (RCA PIN CORD 5.5m)	
506	1-590-519-81	CORD (WITH CONNECTOR) (BUS CABLE 5.5m)	



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