# 16252257/16254562

# **SERVICE MANUAL**

US Model 16252257 E Model 16254562

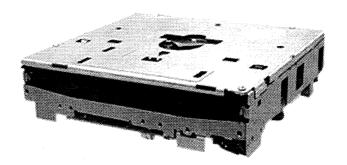


Photo: 16254562

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	ELECTRICAL DARTO LICT	

**COMPACT DISC MECHANISM** 





#### **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 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.

Laser Diode Properties

Material: GaAlAsWavelength: 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 surfase 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.

#### **SAFETY-RELATED COMPONENT WARNING!!**

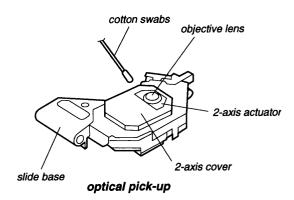
COMPONENTS IDENTIFIED BY MARK & OR DOTTED LINE WITH MARK & ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

#### NOTES ON PICK-UP FLEXIBLE BOARD

The pick-up flexible board in this set is secured to the optical pick-up with an adhesive tape. Once the tape is removed, an adhering force becomes weak, and it cannot be reused.

Therefore, if the optical pick-up is replaced, replace also the pickup flexible board with a new one.

#### NOTES ON CLEANING THE OBJECTIVE LENS



Apply CD lens cleaner B-4 (Part No.: J-2501-000-A) to cotton swabs (narrow type) (Part No.: J-2501-023-A) to be lightly wet. Use a force (about 5 g (0.18 oz)) to make the objective lens in contact with the bottom lightly, and clean the lens by spirals as following below.

Replace the cotton swab and repeat this cleaning two or three times.



#### Notes:

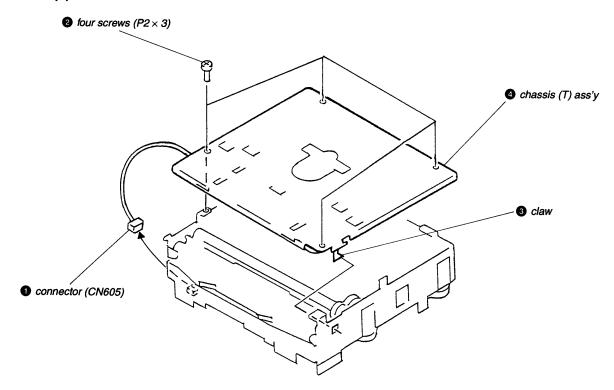
Do not force to push the objective lens. Otherwise, the plate spring supporting the objective lens will be bent, causing a deteriorated RF waveform.

Never touch anything other than the objective lens. Otherwise, a significant deterioration occurs in the RF waveform.

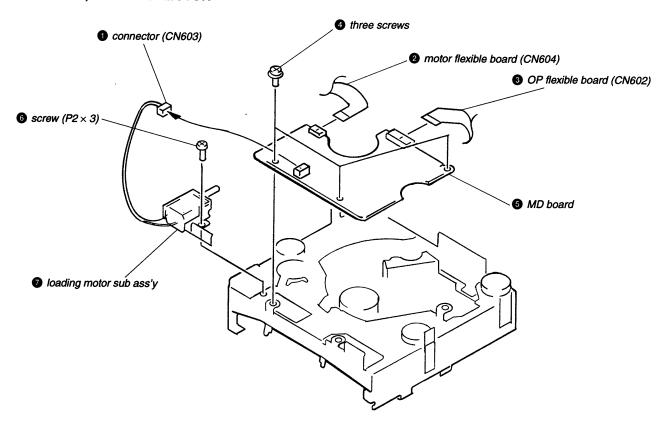
# SECTION 1 DISASSEMBLY

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

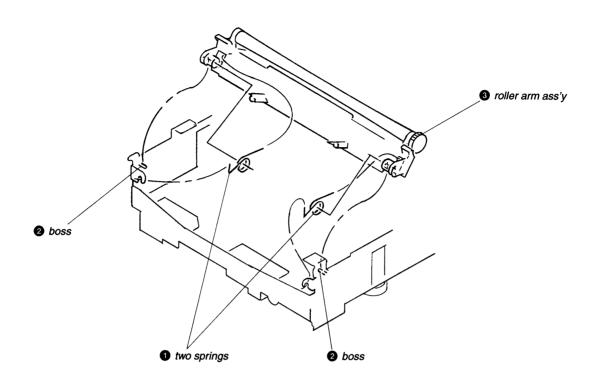
### CHASSIS (T) ASS'Y



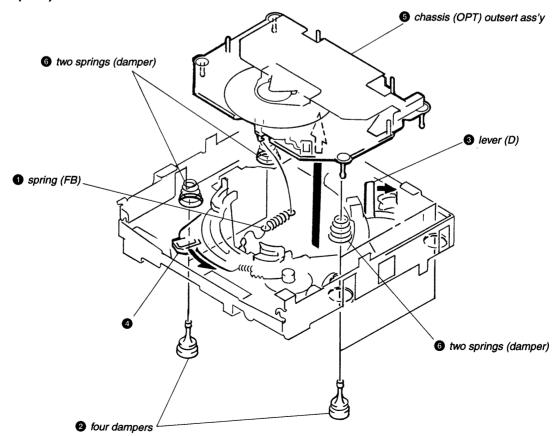
### MD BOARD, LOADING MOTOR



#### **ROLLER ARM ASS'Y**



# CHASSIS (OPT) OUTSERT ASS'Y



# **SECTION 2 DIAGRAMS**

# 2-1. IC PIN FUNCTION DESCRIPTION MD BOARD IC601 $\mu$ PD78052GC-122-3B9 (SYSTEM CONTROL)

Pin No.	Pin Name	1/0	Function
1	SIZE	I	Disc size detection (Not used)
2	D-OUT	I	Disc detection
3	D-IN	I	Disc detection
4	AVSS	-	Analog system ground
5	FO	0	Focusing offset automatic adjustment signal output
6	_	0	Not used (open)
7	AVREF1	I	Reference voltage for D/A converter
8	FGSNS	I	Sense signal input (for Focus gain)
9		0	Not used (open)
10	_	0	Not used (open)
11	SQIN	I	Sub-code Q data input
12	_	0	Not used (open)
13	SQCK	0	Sub-code Q reading clock output
14	POWER	0	System power ON/OFF control
15	_	0	Not used (open)
16	D MS CD	I	Master to CD command data input
17	D CD MS	0	CD to master display data output
18	SCK	I	Master to CD communication clock signal input
19	_	0	Not used (open)
20	SRQ	0	CD to master control signal output
21	_	0	Not used (open)
22	_	0	Not used (open)
23	_	0	Not used (open)
24	_	0	Not used (open)
25	_	0	Not used (open)
26	_	0	Not used (open)
27	_	0	Not used (open)
28	_	0	Not used (open)
29	_	0	Not used (open)
30	_	0	Not used (open)
31	APC	0	Automatic power control for laser output
32	SLEDON	0	Sledding servo ON/OFF control
33	VSS	-	Digital system ground
34	FG0	О	Focusing gain automatic adjustment
35	FG1	0	Focusing gain automatic adjustment
36		0	Not used (open)
37	_	0	Not used (open)
38	_	0	Not used (open)
39	_	0	Not used (open)
40	D/A ON	О	D/A converter ON/OFF control

Pin No.	Pin Name	I/O	Function
41		0	Not used (open)
42	GFS	I	Guard frame sync state input
43	FOK	I	Focus OK signal input
44	ADJOK0	0	Automatic adjustment setting command monitor output (Not used)
45	ADJOK1	0	Automatic adjustment setting command monitor output (Not used)
46	ADJOK2	0	Automatic adjustment setting command monitor output (Not used)
47	ADJOK3	0	Automatic adjustment setting command monitor output (Not used)
48	_	0	Not used (open)
49	***	0	Not used (open)
50	FGG	0	Focusing gain automatic adjustment signal output
51		0	Not used (open)
52	DCLK	0	Serial data transfer clock output
53	DLAT	0	Latch data output
54	DDATA	0	Serial data output
55	XRESET	О	System reset output "L": reset
56	D-MUTE	О	Mute ON/OFF control
57	LOAD	0	Loading motor control
58	EJECT	0	Loading motor control
59	LEON	0	Not used
60	RESET	I	Reset input
61	SENSE	I	Sense signal input
62	SLEEP	I	Sleep mode ON/OFF control (Fixed at "H")
63	SCOR	I	Sync signal at the beginning of frame sync
64	_	0	Not used (open)
65	C.OUT	I	Counter signal for the number of tracks
66	INT ON	0	Interruption counterplan circuit ON/OFF control
67	CS	I	Master to CD control signal
68	VDD	ı	Power supply (+5v)
69	X2	0	Main system clock (4.19MHz)
70	<b>X</b> 1	I	Main system clock (4.19MHz)
71	GND		Ground
72	_		Not used (open)
73	_	I	Not used (open)
74	AVDD	-	Power supply for analog system
75	AVREF0	-	A/D converter reference voltage
76	_	0	Not used (open)
77		0	Not used (open)
78	_	O	Not used (open)
79	LSW	I	Least disc track detection
80	DSW	I	Disc loading completion detection

### 2-2. PRINTED WIRING BOARDS

# Location

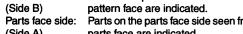
	Locatio	n	
	Ref. No.	Location	
	D301 D701	D-13 F-14	
		, , ,	
	IC301	E-7	
	IC303 IC401	D-14 F-8	
	IC401	F-9	
ı	IC501	E-8	
	IC601	E-11	
	IC701	F-14	
	PD801	- 1	
	PD803	F-1 E-4	
	1 5000	L-4	
	Q501	C-10	
	Q502	C-9	
	Q503	D-9	
	Q504	E-16	
	Q602	F-13	
	Q603 Q604	F-14 E-14	
	Q605	E-10	
-	Q606	D-10	
	Q607	D-13	
ı	Q609	F-17	
١	Q610	E-14	
1	Q701	F-15	
	Q702	F-14	

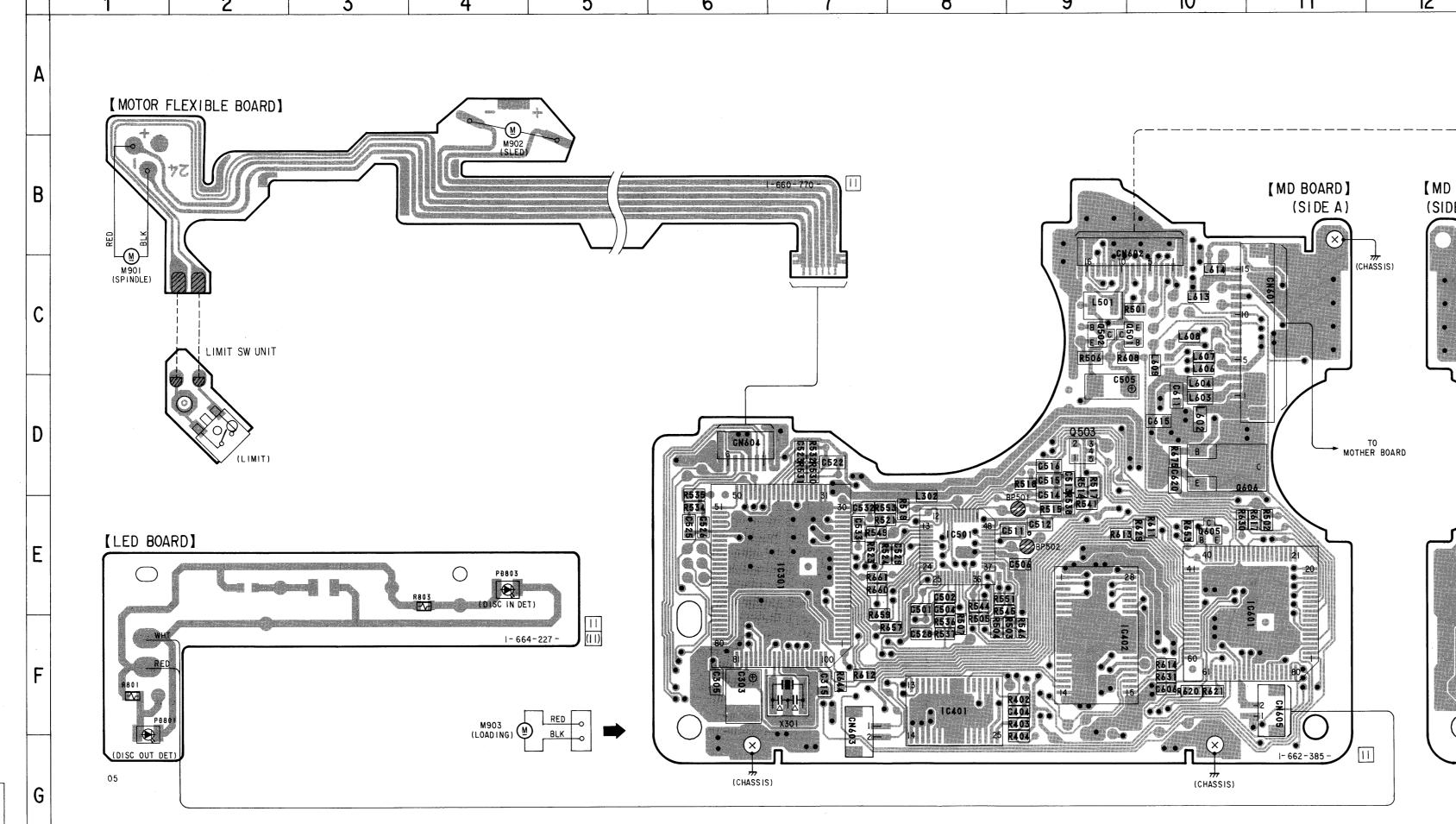
# Note on Printed Wiring Board:

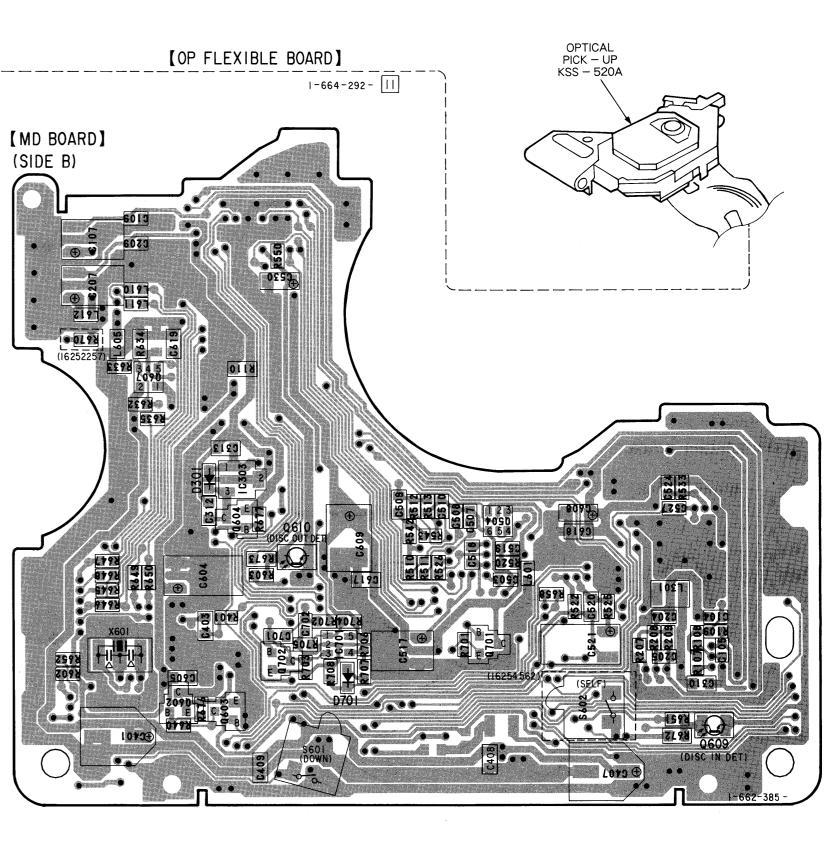
- parts extracted from the component side.
  parts extracted from the conductor side.
- Δ : internal component.
- Pattern from the side which enables seeing.
  (The other layers' patterns are not indicated.)

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

Parts face side: Parts on the parts face side seen from the parts face are indicated.

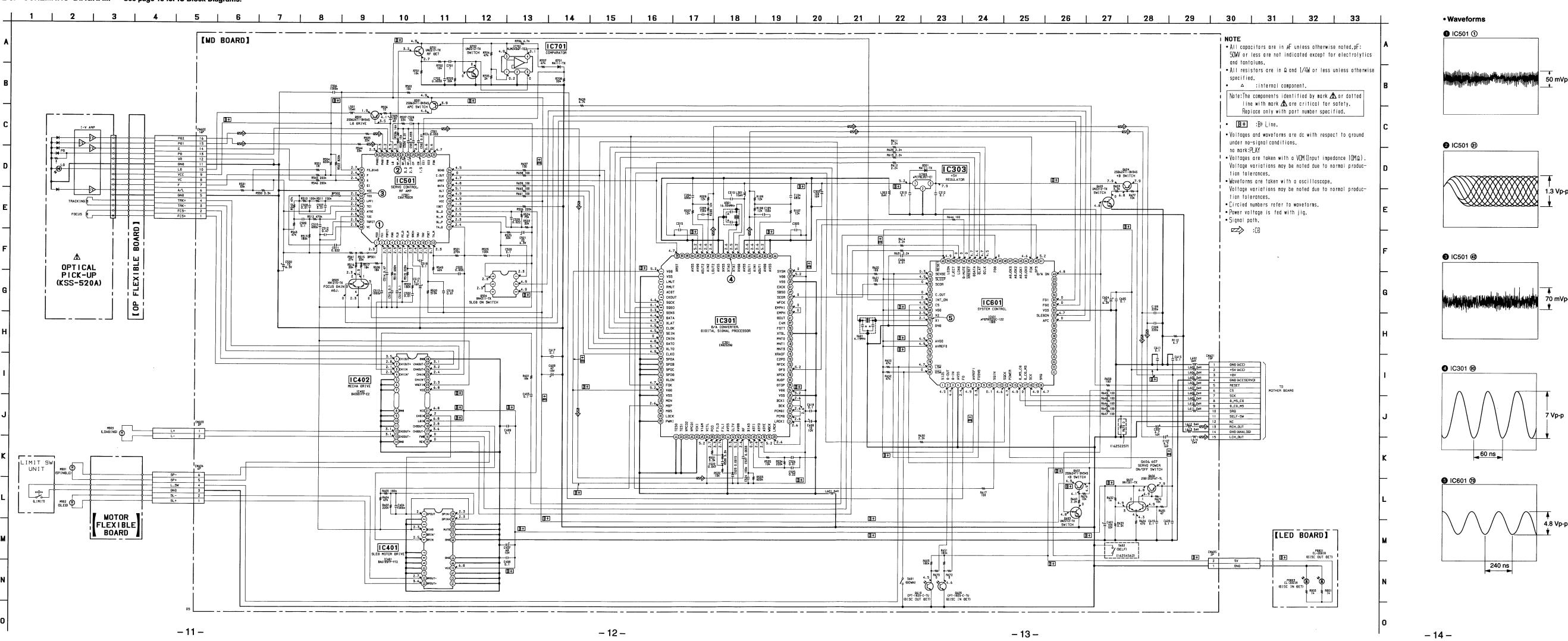






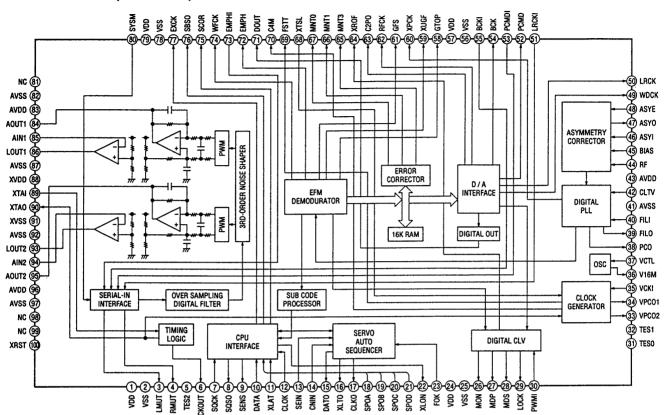
15

14



#### • IC Block Diagrams

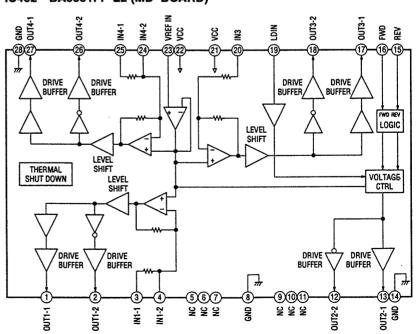
#### IC301 CDX2529Q (MD BOARD)



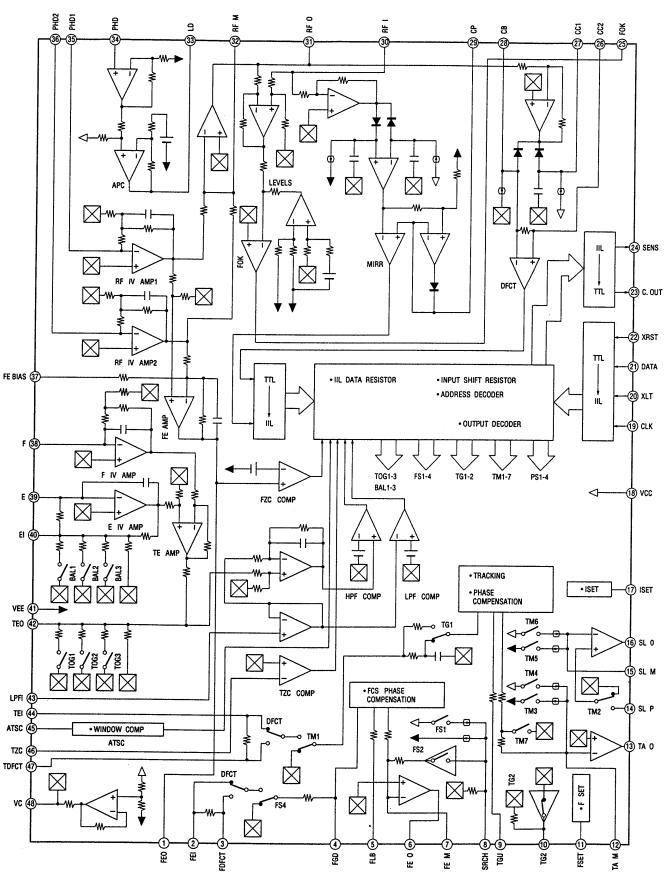


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#### IC402 BA5931FP-E2 (MD BOARD)



## IC501 CXA1782CR (MD BOARD)



# 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)

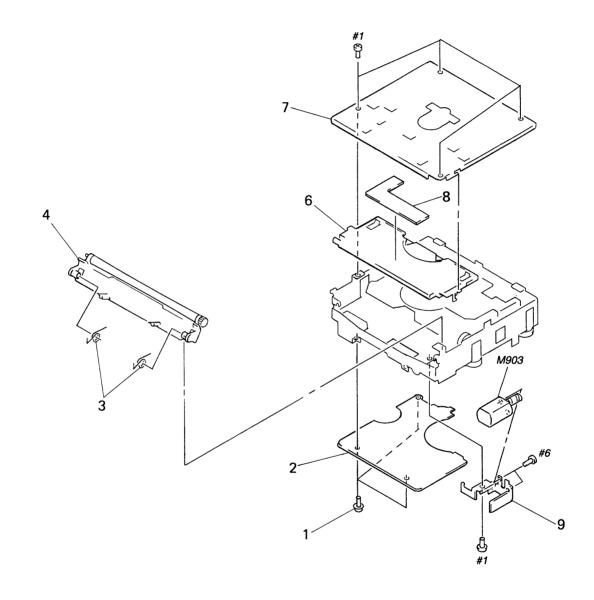
↑ ↑

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

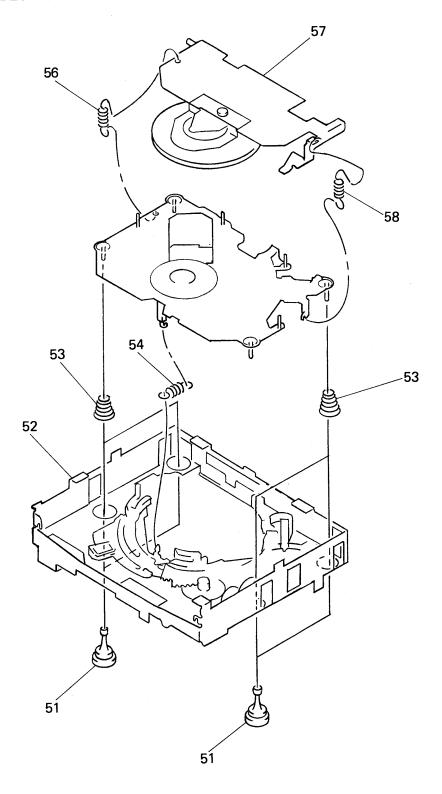
The components identified by mark  $\Delta$  or dotted line with mark  $\Delta$  are critical for safety. Replace only with part number specified.

#### (1) MECHANISM DECK SECTION-1



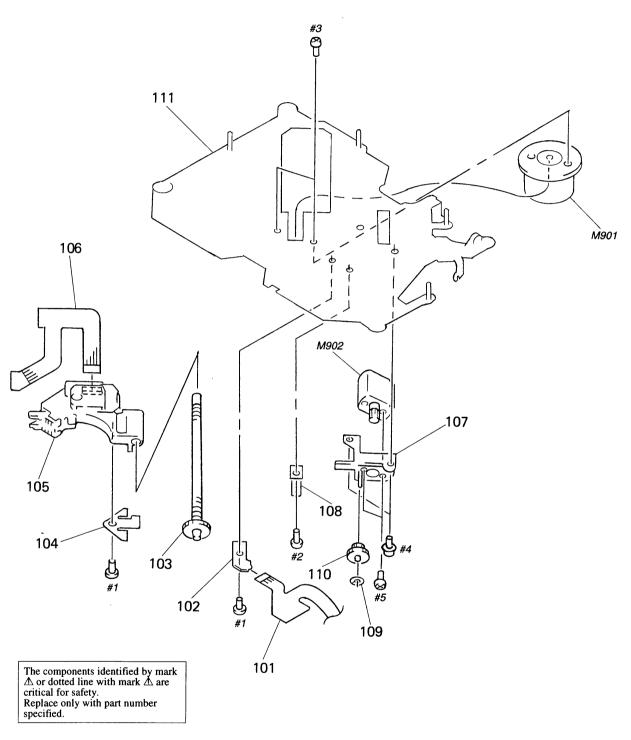
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1 * 2 * 2 3 4	A-3309-700-A 3-934-175-01	MD BOARD, COMPLETE (16254562) MD BOARD, COMPLETE (16252257)		8 * 9	3-934-176-01	•	
4	X-3373-823-1	ARM ASSY, ROLLER (16254562)					

# (2) MECHANISM DECK SECTION-2



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51 52 53 54		CHASSIS (M) COMPLETE ASSY SPRING (DAMPER)		56 57 58		SPRING (S) ARM COMPLETE ASSY, CHUCKING SPRING (CH), TENSION	-

# (3) MECHANISM DECK SECTION-3



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	1-660-770-11	MOTOR FLEXIBLE BOARD		108	3-931-829-01	SPRING (SL), PLATE	
102	A-3309-695-A	LIMIT SW UNIT		109	3-348-953-21	WASHER	
103	A-3291-910-A	SHAFT (FEED) ASSY		110	3-012-800-01	GEAR (SL, MIDWAY)	
104	3-931-834-01	SPRING (FEED), PLATE		111	X-3371-887-1	OUTSERT ASSY, CHASSIS (OPT)	
<b></b> 105	8-848-402-02	OPTICAL PICK-UP KSS-520A/J-N		M901	X-3373-825-1	MOTOR ASSY (SPINDLE)	
106	1-664-292-11	OP FLEXIBLE BOARD		M902	A-3291-912-A	MOTOR ASSY, SLED	
107		BASE (DRIVING) ASSY		111302	ozor orz n	motor fiber, obb	

### LED

MD

# SECTION 4 ELECTRICAL PARTS LIST

#### NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -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: $\mu$ , for example: uA ..:  $\mu$ A. uPA.:  $\mu$ PA. uPB.:  $\mu$ PB. uPC.:  $\mu$ PC. uPD.:  $\mu$ PD.

• 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		Re	emark 	Ref. No.	Part No.	Description		Ren	mark
				-		C403	1-164-004-11	CERAMIC CHIP	0. 1uF	10%	25V
	A-3294-165-A	LED BOARD, COM	<b>IPLETE</b>			C404	1-164-357-11	CERAMIC CHIP	1000PF	5%	50V
		******	****			C407	1-128-065-11	ELECT	68uF	20%	10V
						C408	1-164-004-11	CERAMIC CHIP	0. 1uF	10%	25V
		< DIODE >				C409	1-164-004-11	CERAMIC CHIP	0. 1uF	10%	25V
PD801	8-719-045-75	DIODE CL-2001F	R-X-TU (DISC	C OUT DET	·)	C501	1-164-677-11	CERAMIC CHIP	0. 033uF	10%	16V
PD803	8-719-045-75	DIODE CL-2001F	R-X-TU (DISC	C IN DET)		C502	1-162-970-11	CERAMIC CHIP	0. 01uF	10%	25V
						C503	1-164-677-11	CERAMIC CHIP	0. 033uF	10%	16V
		< RESISTOR >				C504	1-162-970-11	CERAMIC CHIP	0. 01uF	10%	25V
						C505	1-104-848-11	TANTAL. CHIP	100uF	20%	<b>4V</b>
R801	1-216-049-11		1K 5%	1/10							
R803	1-216-049-11		1K 5%	1/10		C506		CERAMIC CHIP	1000PF	5%	50V
******	**********	******	******	*******	****	C507		CERAMIC CHIP	0. 01uF	10%	25V
						C508		CERAMIC CHIP	0. 01uF	10%	25V
ŧ	A-3309-698-A	MD BOARD, COMP	,	1562)		C509		CERAMIC CHIP	0. 1uF	10%	25V
		******	****			C510	1-164-471-11	CERAMIC CHIP	680PF	5%	50V
•	A-3309-700-A	MD BOARD, COMP	PLETE (16252	2257)		C511	1-163-037-11	CERAMIC CHIP	0. 022uF	10%	25V
		*******	****			C512	1-107-823-11	CERAMIC CHIP	0. 47uF	10%	16V
						C513		CERAMIC CHIP	1000PF	5%	50V
	3-708-377-01	SLIDER, SURF L	OCK (16P)		•	C514		CERAMIC CHIP	0. 47uF	10%	16V
						C515	1-164-004-11	CERAMIC CHIP	0. 1uF	10%	25V
		< CAPACITOR >									
						C516		CERAMIC CHIP	0. 1uF	10%	25V
C104	1-164-471-11		680PF	5%	50V	C517	1-110-453-11		4. 7uF	20%	16V
C105	1-164-217-11		150PF	5%	50V	C518		CERAMIC CHIP	0. 1uF	10%	25V
C107	1-110-453-11		4. 7uF	20%	16V	C519		CERAMIC CHIP	0. 01uF	10%	25V
C109	1-162-957-11		220PF	5%	50V	C520	1-164-004-11	CERAMIC CHIP	0. 1uF	10%	25V
C204	1-164-471-11	CERAMIC CHIP	680PF	5%	50V	7504	4 440 544 44	DI DOM GUID		0.00	
COOF	1 104 017 11	OLDINIO GITLD	15000	F0/	F011	C521	1-113-514-11		22uF	20%	6. 3
C205	1-164-217-11		150PF	5%	50V	C522		CERAMIC CHIP	0. 047uF	10%	50V
C207 C209	1-110-453-11		4. 7uF	20%	16V	C523		CERAMIC CHIP	0. 0015uF	10%	50V
	1-162-957-11		220PF	5%	50V	C524		CERAMIC CHIP	100PF	5%	50V
C303	1-113-500-11		100uF	20%	10V	C525	1-164-489-11	CERAMIC CHIP	0. 22uF	10%	16V
C305	1-109-982-11	OEDAMIO OHIP	1uF	10%	10V	C526	1-169-070-11	CERAMIC CHIP	0. 01uF	10%	25V
C310	1-109-982-11	CERAMIC CHIP	1uF	10%	10V	C527		CERAMIC CHIP	0. 01ur 0. 0033uF	10%	50V
C312	1-164-004-11		0. 1uF	10%	25V	C527		CERAMIC CHIP	0.0033ur 10PF	0. 5PF	
C313	1-164-004-11		0. 1uF	10%	25V 25V	C528		CERAMIC CHIP	0. 022uF	10%	25V
C315	1-109-982-11		o. rur 1uF	10%	10V	C529		TANTAL. CHIP	o. ozzur 10uF	20%	6.3
C401	1-109-302-11		100uF	20%	10V 10V	6930	1-133-233-11	IANIAL. UNIP	TOUL	ZUX	o. J

Daf No	Part No.	Dogouintion		n.	1	D 6 W	<b>.</b>				
nel. No.	rart No.	Description ————		—	mark ———	Ref. No.	Part No.	Description			Remark
C532	1-162-970-11	CERAMIC CHIP	0. 01uF	10%	25V	L610	1-414-760-21	INDUCTOR CHIL	OuH		
C533	1-163-989-11	CERAMIC CHIP	0. 033uF	10%	25V	L611	1-414-760-21	INDUCTOR CHIL	OuH		
C604	1-113-514-11		22uF	20%	6. 3V	L612	1-414-760-21	INDUCTOR CHIE	OuH		
C605		CERAMIC CHIP	0. 1uF	10%	25V						
C606	1-162-970-11	CERAMIC CHIP	0. 01uF	10%	25V	L613		INDUCTOR CHIE			
2000	4 404 0=4 44					L614	1-414-760-21	INDUCTOR CHIE	OuH		
C608		TANTAL. CHIP	10uF	20%	10V	1					
C609		TANTALUM CHIP	47uF	10%	10V			< TRANSISTOR	>		
C611		CERAMIC CHIP	0. 1uF	10%	25V						
C615 C617		CERAMIC CHIP	0. 1uF	10%	25V	Q501	8-729-141-48		2SB624-		
0017	1-104-004-11	CENAMIC CHIP	0. 1uF	10%	25V	Q502	8-729-141-48		2SB624-	BV345	
C618	1-164-004-11	CERAMIC CHID	0. 1uF	100	9517	Q503	8-729-403-17		XN1215		
C619	1-164-004-11		0. 1ur 0. 1uF	10% 10%	25V 25V	Q504	8-729-011-47		XN4311	DT 10 45	
C620	1-164-004-11		0. 1uF	10%	25V 25V	Q602	8-729-141-48	TRANSTSTUR	2SB624-I	BV345	
C701	1-109-982-11		1uF	10%	10V	Q603	8-729-424-59	TDANCICTOD	UNGGIO		
C702	1-162-967-11		0. 0033uF	10%	50V	Q604	8-729-141-48		UN2212 2SB624-i	0770 A.E	
		0.111	0. 0000di	10/0	301	Q605	8-729-424-59		230024-1 UN2212	)Y343	
		< CONNECTOR >				Q606	8-729-822-84		2SB1202F	траз	
						Q607	8-729-402-13		ZSD1Z0Z1 XN1501	UOI	
CN601	1-774-732-11	PIN, CONNECTOR	(PC BOARD)	15P		400.	0 720 102 10	THERESISTOR	M11001		
		HOUSING, CONNEC				Q609	8-729-041-49	PHOTO TRANSIS	TOR CPT-	-182S-C	:-TH
CN603	1-580-055-21	PIN, CONNECTOR	2P			•				1000	(DISC IN DET)
		CONNECTOR, FPC				Q610	8-729-041-49	PHOTO TRANSIS	TOR CPT-	182S-0	
CN605	1-580-055-21	PIN, CONNECTOR	2P							(	(DISC OUT DET)
						Q701	8-729-424-70	TRANSISTOR	JN2217		•
		< DIODE >				Q702	8-729-424-59	TRANSISTOR	JN2212		
D001	0 710 404 40	D. T. O. T.									
D301 D701	8-719-404-49 8-719-404-49							< RESISTOR >			
D/01	0 713 404 43	DIODE MAIII				R107	1-216-834-11	MFTAI CHID	12K	5%	1/16W
		< IC >				R108	1-216-834-11		12K	5%	1/16W
						R109	1-216-834-11		12K	5%	1/16W
IC301	8-752-380-64	IC CXD2529Q			İ	R110	1-216-308-00		4. 7	5%	1/10W
IC303	8-759-150-61	IC UPC78L05T				R207	1-216-834-11		12K	5%	1/16W
	8-759-335-52		T2							0.0	1, 10,,
	8-759-454-19		2			R208	1-216-834-11	METAL CHIP	12K	5%	1/16W
IC501	8-752-076-45	IC CXA1782CR			ĺ	R209	1-216-834-11	METAL CHIP	12K	5%	1/16W
						R401	1-216-836-11	METAL CHIP	18K	5%	1/16W
	8-759-457-84		-122-3B9			R402	1-216-849-11 N	METAL CHIP	220K	5%	1/16W
10701	8-759-710-82	IC NJM2406F				R403	1-216-848-11 M	METAL CHIP	180K	5%	1/16W
	,	( (011 )				2404					
		(COIL >					1-216-841-11 N		47K	5%	1/16W
L301	1-412-058-11 I	NUICTUB CHID	10uH				1-216-839-11 N		33K	5%	1/16W
L302	1-414-760-21 I		OuH				1-216-833-11 N		10K	5%	1/16W
L501	1-412-058-11 I		10uH				1-218-917-11 M			0. 50%	
L601	1-414-760-21 I		OuH			11304	1-218-917-11 M	ETAL GLAZE	820K	0. 50%	1/10W
L602	1-414-772-11 I		OuH			R505	1-218-883-11 M	FTAL CLATE	33K	U EUM	1 /1 CW
							1-216-001-00 M		10	0. 50% 5%	1/10W
L603	1-414-772-11 I	NDUCTOR CHIP	0uH				1-216-835-11 M		15K		1/16W
L604	1-414-772-11 I		OuH				1-216-845-11 M				1/16W
L605	1-414-772-11 I	NDUCTOR CHIP	0uH				1-216-847-11 M		150K		1/16W
L606	1-414-760-21 I	NDUCTOR CHIP	0uH								_,
L607	1-414-760-21 I	NDUCTOR CHIP	0uH			R512	1-216-853-11 M	ETAL CHIP	470K	5%	1/16W
							1-216-848-11 M				1/16W
L608	1-414-760-21 II		0uH				1-216-839-11 M				1/16W
L609	1-414-760-21 II	NDUCTOR CHIP	OuH				1-216-840-11 M				1/16W

# MD

Ref. No.	Part No.	Descri	iption			Remark	Ref. No.	Part No.	Descri	ption			Remark
R517	1-216-836-11	METAL.	CHIP	18K	5%	1/16W	R645	1-216-809-11	METAL	CHIP	100	5%	1/16W
11017	1 210 000 11					•	R646	1-216-809-11	METAL	CHIP	100	5%	1/16W
R518	1-216-855-11	METAL	CHIP	680K	5%	1/16W	R647	1-216-809-11	METAL	CHIP	100	5%	1/16W
R519	1-216-849-11			220K		1/16W							
R520	1-218-273-11	METAL	GLAZE	510K	5%	1/16W	R648	1-216-809-11			100	5%	1/16W
R521	1-216-850-11	METAL	CHIP	270K	5%	1/16W	R649	1-216-809-11			100	5%	1/16W
R522	1-218-294-11	METAL	GLAZE	30K	5%	1/16W	R650	1-216-809-11	METAL	CHIP	100	5%	1/16 <b>W</b>
							R651	1-216-848-11	METAL	CHIP	180K		1/16W
R523	1-216-845-11	METAL	CHIP	100K	5%	1/16W	R652	1-216-841-11	METAL	CHIP	47K	5%	1/16W
R524	1-218-296-11	METAL	GLAZE	75K	5%	1/16W							
R525	1-216-839-11	METAL	CHIP	33K	5%	1/16W	R653	1-216-827-11			3. 3K		1/16W
R526	1-216-849-11	METAL	CHIP	220K	5%	1/16W	R657	1-216-809-11	METAL	CHIP	100	5%	1/16W
R530	1-216-827-11	METAL	CHIP	3. 3K	5%	1/16W	R658	1-216-809-11	METAL	CHIP	100	5%	1/16W
							R659	1-216-809-11	METAL	CHIP	100	5%	1/16W
R531	1-216-827-11	METAL	CHIP	3. 3K	5%	1/16W	R660	1-216-809-11	METAL	CHIP	100	5%	1/16W
R532	1-216-833-11	METAL	CHIP	10K	5%	1/16W							
R533	1-216-856-11	METAL	CHIP	820K	5%	1/16W	R661	1-216-809-11	METAL	CHIP	100	5%	1/16W
R534	1-216-849-11	METAL	CHIP	220K	5%	1/16W	R670	1-216-864-11	METAL	CHIP	0	5%	1/16W
R535	1-216-833-11	METAL	CHIP	10K	5%	1/16W							(16252257)
							R672	1-216-295-00	CONDUC	CTOR, CHIP		(20	
R536	1-218-291-11	METAL	GLAZE	16K	5%	1/16W	R673	1-216-295-00	CONDUC	CTOR, CHIP		(20	
R537	1-216-837-11	METAL	CHIP	22K	5%	1/16W	R675	1-216-833-11	METAL	CHIP	10K	5%	1/16W
R538	1-216-836-11	METAL	CHIP	18K	5%	1/16W							
R541	1-216-838-11			27K	5%	1/16W	R676	1-216-833-11	METAL	CHIP	10K	5%	1/16W
R542	1-216-841-11			47K	5%	1/16W	R677	1-216-833-11	METAL	CHIP	10K	5%	1/16W
							R701	1-216-833-11	METAL	CHIP	10K	5%	1/16W
R543	1-216-841-11	METAL	CHIP	47K	5%	1/16W	R702	1-216-833-11	METAL	CHIP	10K	5%	1/16W
R544	1-218-883-11	METAL	GLAZE	33K	0.50%	1/16W	R703	1-216-839-11	METAL	CHIP	33K	5%	1/16W
R545	1-218-902-11	METAL	GLAZE	200K	0.50%	1/16W							
R546	1-218-902-11			200K	0.50%	1/16W	R704	1-218-887-11	METAL	GLAZE	47K	0.50%	1/16W
R549	1-218-447-11	METAL	GLAZE	62K	5%	1/16W	R705	1-218-854-11	METAL	GLAZE	2K	0.50%	1/16W
							R706	1-216-829-11	METAL	CHIP	4.7K	5%	1/16W
R550	1-216-827-11	METAL	CHIP	3. 3K	5%	1/16W	R707	1-216-841-11	METAL	CHIP	47K	5%	1/16W
R551	1-216-857-11	L METAL	CHIP	1M	5%	1/16W	R708	1-216-839-11	METAL	CHIP	33K	5%	1/16W
R553	1-216-848-11	METAL	CHIP	180K	5%	1/16W							
R602	1-216-841-11	L METAL	CHIP	47K	5%	1/16W			< SWI'	rch >			
R603	1-216-848-11	L METAL	CHIP	180K	5%	1/16W							
							S601	1-762-742-23					
R608	1-216-829-11	I METAL	CHIP	4.7K	5%	1/16W	S602	1-762-742-23	SWITC	H, DETECTI	ON (SM	IALL TY	
R611	1-216-825-11	l METAL	CHIP	2. 2K	5%	1/16W							(16254562)
R612	1-216-825-11	1 METAL	CHIP	2. 2K		1/16W							
R613	1-216-825-11	1 METAL	CHIP	2. 2K	5%	1/16W			< VIB	RATOR >			
R614	1-216-825-11	1 METAL	CHIP	2. 2K	5%	1/16W							
							X301	1-760-401-11					lz)
R617	1-216-809-13	1 METAL	CHIP	100	5%	1/16W	X601	1-767-305-21	l VIBRA	TOR, CERAM	IC (4.	19MHz)	
R620	1-216-809-13	1 METAL	CHIP	100	5%	1/16W	*****	******	******	******	*****	*****	******
R621	1-216-809-1	1 METAL	CHIP	100	5%	1/16W							
R629	1-216-825-1	1 METAL	CHIP	2. 2K	5%	1/16W							
R630	1-216-825-1	1 METAL	CHIP	2. 2K	5%	1/16W							
R631	1-216-825-1	1 METAL	CHIP	2. 2K	5%	1/16W							
R632	1-218-847-1			1K	0.50%	1/16W							
R633	1-218-859-1	1 METAI	GLAZE	3. 3K	0.50%	1/16W							
R634	1-216-041-0	O METAI	CHIP	470	5%	1/10W							
R635	1-216-805-1	1 METAI	CHIP	47	5%	1/16W							
De 40	4 040 005 1	4 <b>1</b> 40m	CILLD	0.017	ΕW	1 /1 CW							
R640	1-216-825-1			2. 2K		1/16W							
R644	1-216-809-1	ı melal	LUIIP	100	5%	1/16W	1						

Remark Ref. No. Part No. Description MISCELLANEOUS \*\*\*\*\*\* 1-660-770-11 MOTOR FLEXIBLE BOARD 101 102 A-3309-695-A LIMIT SW UNIT 8-848-402-02 OPTICAL PICK-UP KSS-520A/J-N <u>105</u> 1-664-292-11 OP FLEXIBLE BOARD 106 M901 X-3373-825-1 MOTOR ASSY (SPINDLE) M902 A-3291-912-A MOTOR ASSY, SLED M903 A-3291-915-A MOTOR SUB ASSY, LO (LOADING) \*\*\*\*\*\* HARDWARE LIST

\*\*\*\*\*\*

7-627-553-37 PRECISION SCREW +P 2X3 TYPE 3 #1 7-627-553-17 PRECISION SCREW +P 2X2 TYPE 3 #2 #3 7-627-552-07 SCREW, PRECISION +P 1. 7X2. 5 7-628-253-00 SCREW +PS 2X4 #4 7-627-850-28 SCREW, PRECISION +P 1.4X3 #5 7-627-853-27 PRECISION SCREW +P 2X3 TYPE 3 #6

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

# 16252257/16254562

SONY®

**SERVICE MANUAL** 

US Model 16252257 E Model 16254562

# **SUPPLEMENT-1**

File this supplement with the service manual.

**Subject: Mechanism Parts Supply Classification Changed** 

(ENG-98018)

 This service manual supplement-1 contains only exploded views which has been modificated.

### **EXPLODED VIEWS**

#### NOTE:

- · -XX and -X mean standardized parts, so they may have some difference from the original
- Color Indication of Appearance Parts Example:

KNOB, BALANCE (WHITE) . . . (RED)

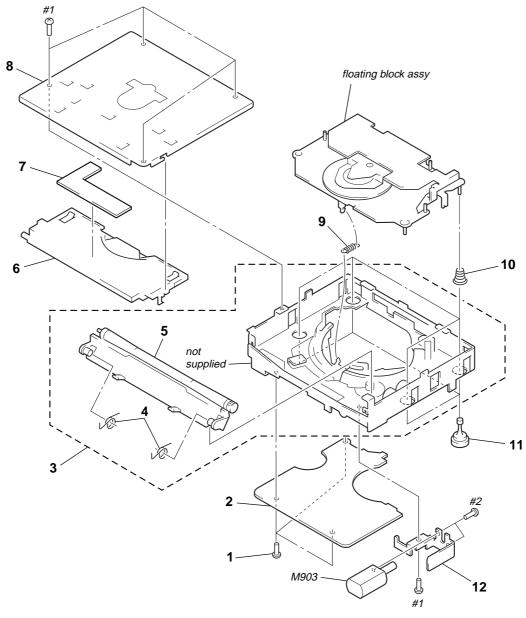
Parts Color Cabinet's Color

- 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.

The components identified by mark  $\triangle$  or dotted line with mark ⚠ are critical for safety.

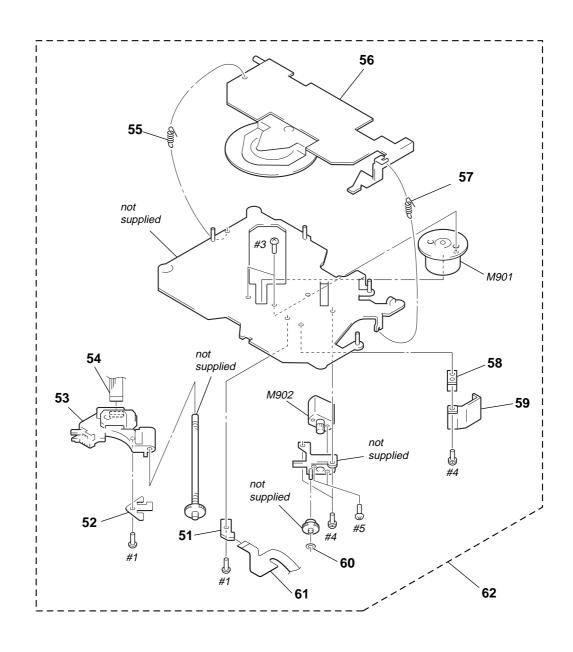
Replace only with part number specified.

## (1) MECHANISM DECK SECTION-1



Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>	Ref. No.	Part No.	Description	Remark
1 * 2 * 2 3 4	A-3309-700-A	MD BOARD, COMPLETE (16254562) MD BOARD, COMPLETE (16252257) CHASSIS (M) COMPLETE ASSY		* 8 * 8 9 10 11	3-934-183-11 3-012-924-01	SPRING (DAMPER), COMPRESSION	
5 6 7	3-025-446-01	ARM ASSY, ROLLER 2 GUIDE (DISC) LED BOARD, COMPLETE		* 12 M903		BRACKET (MOTOR) MOTOR SUB ASSY, LO (LOADING)	

# (2) MECHANISM DECK SECTION-2



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	<u>Remark</u>	Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>
51	A-3309-695-A	SW BOARD, COMPLETE		58	3-020-552-01	SPRING (SL), LEAF	
52	3-021-502-01	SPRING (FEED), LEAF		59	3-019-426-01	COVER, BASE	
<b> ∆</b> 53	8-848-402-08	OPTICAL PICK-UP KSS-520A/K1RP		60	3-348-953-21	WASHER	
54	1-664-292-11	OP FLEXIBLE BOARD		61	1-660-770-11	MOTOR FLEXIBLE BOARD	
55	3-012-925-01	SPRING (S)		62	A-3291-908-A	FLOATING BLOCK ASSY	
56	X-3373-093-1	ARM COMPLETE ASSY, CHUCKING		M901	X-3373-825-1	MOTOR ASSY (SPINDLE)	
57	3-939-104-01	SPRING (CH), TENSION		M902	A-3301-486-A	MOTOR ASSY, SLED	

### 16252257/16254562

Ref. No.	Part No.	<u>Description</u>	Remark
		MISCELLANEOUS	
		******	
<b> ∆</b> 53	8-848-402-08	OPTICAL PICK-UP KSS-520A/K1RP	
54	1-664-292-11	OP FLEXIBLE BOARD	
61	1-660-770-11	MOTOR FLEXIBLE BOARD	
M901	X-3373-825-1	MOTOR ASSY (SPINDLE)	
M902	A-3301-486-A	MOTOR ASSY, SLED	
M903	A-3291-915-A	MOTOR SUB ASSY, LO (LOADING)	
**************			
		******	
		HARDWARE LIST	
		******	
#1	7-627-553-37	PRECISION SCREW +P 2X3 TYPE 3	
#2	7-627-553-27	PRECISION SCREW +P 2X2.5 TYPE3	
#3	7-627-552-07	SCREW,PRECISION +P 1.7X2.5	
#4	7-628-253-00	SCREW +PS 2X4	
#5	7-627-850-28	SCREW,PRECISION +P 1.4X3	

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