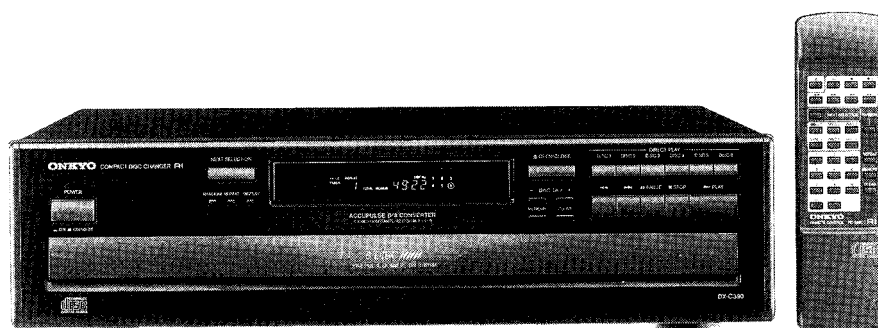


ONKYO SERVICE MANUAL

COMPACT DISC PLAYER

MODEL DX-C330



Black model

BMD	120V AC, 60Hz
BMP	230V AC, 50Hz
BMW	120/220V AC, 50/60Hz

SATETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK Δ ON THE SCHEMATIC DIAGRAM AND IN THE PARTS LIST ARE CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK. REPLACE THESE COMPONENTS WITH ONKYO PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL.

MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

SPECIFICATIONS

Compact Disc Automatic Changer Model DX-C330

Signal readout system:	Optical non-contact
Reading rotation:	About 500 - 200 r.p.m. (constant linear velocity)
Linear velocity:	1.2 - 1.4 m/s
Error correction system:	Cross Interleave Reed-Solomon code
D/A converter:	1 bit PWM/ACCUPULSE
Sampling frequency:	352.8 kHz (8 times oversampling)
Number of channels:	2 (stereo)
Frequency response:	2Hz - 20kHz
Total harmonic distortion:	0.004% (at 1kHz)
Dynamic range:	96dB
Signal to noise ratio:	96dB
Channel separation:	90dB (at 1kHz)
Wow and Flutter:	Below threshold of measurability
Output level:	2 volts r.m.s.
Power consumption:	13 watts
Power supply rating:	European and Australian models: AC 230V, 50Hz USA and Canadian models: AC 120V, 60Hz Worldwide model: AC 120V and 220V
Dimensions (W x H x D):	455 x 120 x 425 mm (17-15/16" x 4-3/4" x 16-11/16")
Weight:	7.4 kg (16.3 lbs)

ONKYO[®]
AUDIO COMPONENTS

Specifications and external appearance are subject to change without notice because of product improvements.

TABLE OF CONTENTS

Specifications	1
Service procedures	2
Caution on replacement of optical pickup.....	2
Protection of eyes from laser beam.....	3
Laser warning labels	3
IC block diagrams and descriptions	4
Packing view.....	9
Pick-up drive unit	10
Chassis-exploded view.....	13
Parts list.....	15
Block diagram.....	17
Adjustment procedures.....	19
Printed circuit board view from bottom side.....	21
Printed circuit board-parts list.....	23
Control position and names	27

SERVICE PROCEDURES

1. Safety-check out

After correcting the original service problem, perform the following safety check before releasing the set to the customer:

Connect the insulating-resistance tester between the plug of power supply cord and chassis.

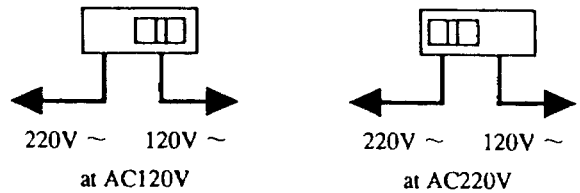
Specifications: More than 10M Ω at 500V.

2. Voltage Selector (Back panel)

Worldwide models are equipped with a voltage selector to conform with local power supplies. Be sure to set this switch to match the voltage of the power supply in user's area before turning the power switch on.

Voltage is changed by sliding the groove in the switch with a screw driver to the right or left.

Confirm that the switch has been moved all the way to the right or left before turning the power switch on.



CAUTION ON REPLACEMENT OF OPTICAL PICK UP

The laser diode in the optical pickup block is so sensitive to static electricity, surge current and etc, that the components are liable to be broken down or its reliability remarkably deteriorated.

During repair, carefully take the following precautions. (The following precautions are included in the service parts.)

PRECAUTIONS

1. Ground for the work-desk.

Place a conductive sheet such as a sheet of copper (with impedance lower than 10M Ω) on the work-desk and place the set on the conductive sheet so that the chassis.

2. Grounding for the test equipment and tools.

Test equipments and toolings should be grounded in order that their ground level is the same the ground of the power source.

3. Grounding for the human body.

Be sure to put on a wrist-strap for grounding whose other end is grounded.

Be particularly careful when the workers wear synthetic fiber clothes, or air is dry.

4. Select a soldering iron that permits no leakage and have the tip of the iron well-grounded.

5. Do not check the laser diode terminals with the probe of a circuit tester or oscilloscope.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs a laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION, BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.

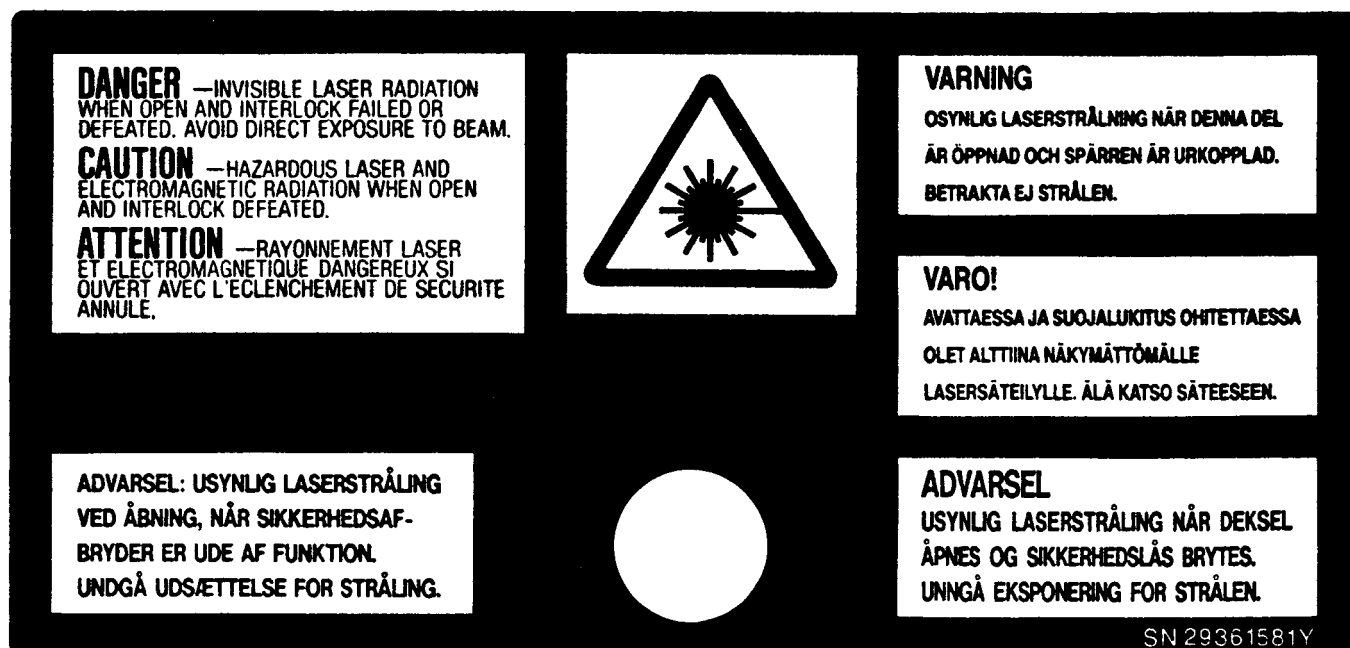
Laser Diode Properties

- Material: GaAlAs
- Wavelength: 760~800nm
- Emission Duration: continuous
- Laser output: max. 0.5mW*

*This output is the value measured at a distance about 1.8mm from the objective lens surface on the Optical Pick-up Block.

LASER WARNING LABEL

These labels are located on the mechanism.



"CLASS 1 LASER
PRODUCT"

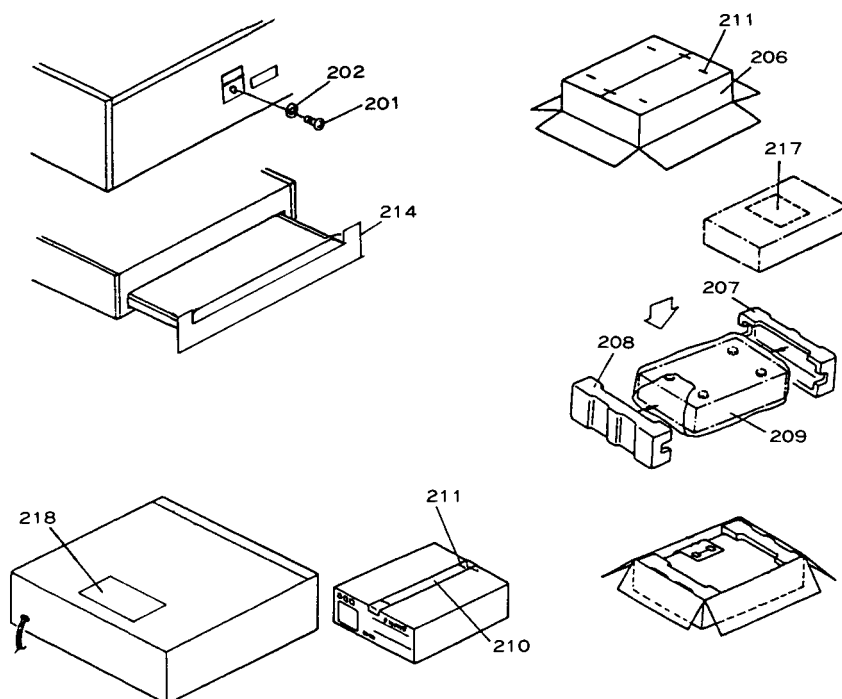
μPD78043GF-082 (Microprocessor)

No.	Symbol	I/O	Description
1	NC		Not used
2	NC		
3	5G		
4	4G		
5	3G	O	Digit output terminals for fluorescent indicator tube
6	2G		
7	1G		
8	Vdd	I	Power supply terminal (+5V)
9	CLK	O	Serial transfer clock output terminal of command to the signal processor IC.
10	DATA	O	Serial data of command of signal processing IC
11	XL.T	O	Command to signal processing IC
12	DMUT	O	Muting signal to signal processing IC
13	AMUT	O	Muting signal
14	SOCK	O	Serial transfer clock of sub code Q to signal processing IC
15	NC		Not used
16	SOSO	I	Serial transfer data of sub code Q from signal processing IC
17	XRST	I	Reset signal
18	SENS	I	Sense signal from signal processing IC
19	RI.IN	I	Input terminal of control signal RI
20	GND	I	
21	RI.OUT	O	Output terminal of control signal RI
22	MD2	O	Inhibiting signal of digital output
23	DEFECT	O	Inhibiting signal of DEFECT circuit to servo comparator
24	AD4		6
25	AD3		7
26	AD2	I	8 A/D port for key input (Normal : 5V)
27	AD1		9
28	AD0		10
29	AVdd	I	Voltage supply terminal for analog
30	AVref	I	Reference voltage supply terminal for analog
31	DX-C311 Select	I	Model selection terminal
32	NC		Not used
33	Vss	I	
34	X1	I	System clock oscillation input
35	X2	O	System clock oscillation output
36	LSR	O	Laser control signal
37	ROT.STOP.SENS	I	Carousel stop position detection photo interrupter input
38	ROT.POS.SENS	I	Carousel disc position detector photo interrupter input
39	ROT.HI	O	Carousel high speed rotation signal
40	ROT.R	O	Carousel rotation control signal
41	ROT.L	O	
42	CH.CLOSE	O	Chucking control signal

No.	Symbol	I/O	Description	
43	CH.OPEN	O	L	
44	LD.CLOSE	O	L	Tray loading control signal
45	LD.OPEN	O	L	
46	SCOR	I	↓	Synchronizing signal detector of sub code sink
47	RMCN	I	L	Remote control signal input port
48	NC			Not used
49	FOK	I	H	Focus OK signal
50	LD.CLOSE.SW	I	L	Tray loading finishing switch input
51	LD.OPEN.SW	I	L	Tray opening finishing switch input
52	Vdd	I	L	
53	CH.CLOSE.SW	I	L	Chucking finishing switch input
54	CH.OPEN.SW	I	L	Chucking open finishing switch input
55	LD.CURRENT	I	L	Detective signal of overcurrent for loading motor
56	ROULETTE.BRAKE	I		Setting the carousel break (H=40msec,L=20msec)
57	NC			
58	NC			Not used
59	NC			
60	NC			
61	P16			
62	P15			
63	P14			
64	P13			
65	P12	O	H	Segment output for fluorescent indicator tube
66	P11			
67	P10			
68	P9			
69	P8			
70	Vfcb	I		Negative voltage for FL tube
71	P7			
72	P6			
73	P5			
74	P4	O	H	Segment output for fluorescent indicator tube
75	P3			
76	P2			
77	P1			
78	NC			
79	NC			
80	NC			Not used

H : Operation at the high level
L : Operation at the low level
6,7,8,9,10 : A/D converter input
↑ : Operation at leading pulse
↓ : Operation at trailing pulse

PACKING VIEW



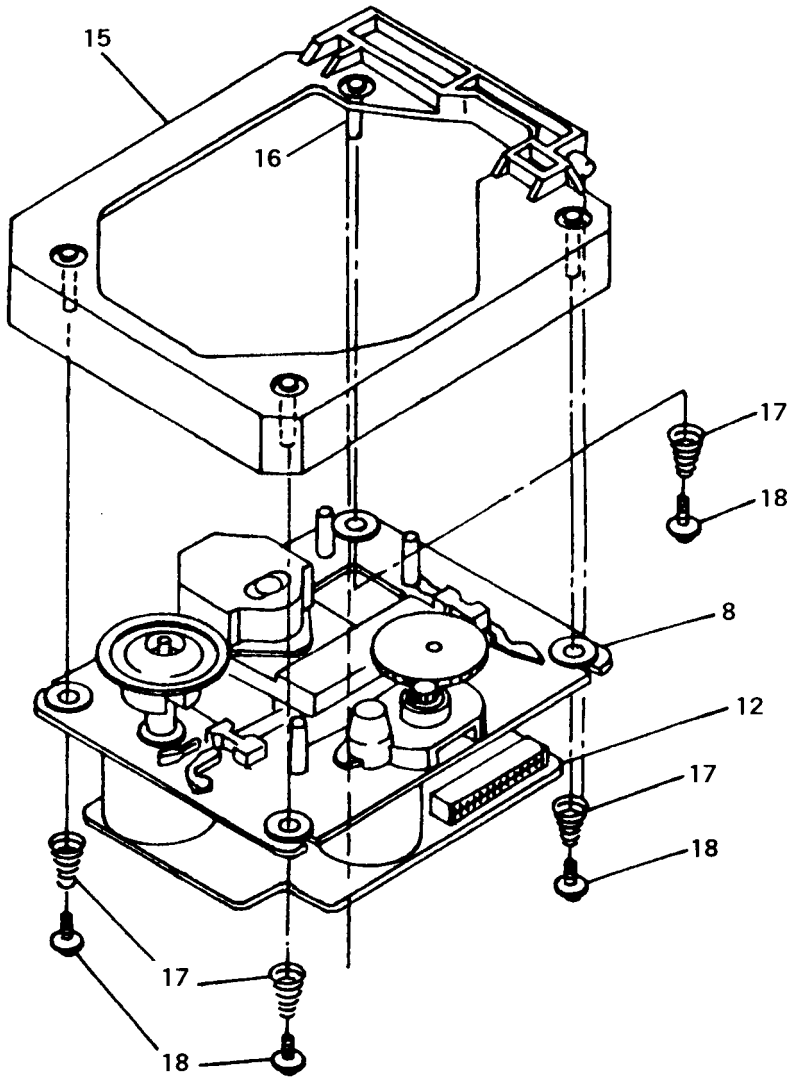
PARTS LIST

REF.NO.	PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
201	82115018Y	5P+18FN, SCREW		ACCESSORY BAG AS
202	27270382Y	t 0.5×15×5.2, SPACER	2010244Y	PIN CORD AS
206	29052969Y	CARTON	2010200	REMOTE CONTROL CORD
207	29091713Y	PAD (L)	24140289Y	REMOTE CONTROL UNIT
208	29091714Y	PAD (R)	3010054	UM-3, BATTERY
209	29100141Y	700×600, POLY BAG	29342268Y	INSTRUCTION MANUAL (E)
210	29110071Y or 29110098Y	DAMPLON TAPE	29342269Y	INSTRUCTION MANUAL (U3) <W,C,T>
211	282301Y or 282321Y	STAPLE	29365019B	WARRANTY CARD <N>
214	29095721Y	SHEET (DOOR)	29365042	WARRANTY CARD <A>
246	29360840	LABEL (SHEET) <D>	29358002K	SERVICE STATION LIST <N>
	29361786Y	LABEL (SHEET) <A,T>	25055040	CV PLUG, CV-K-2 <W>
217	29355207Y	INSTRUCTION SHEET	29100097-1Y	350×250, POLY BAG
218	29360687Y	CLASS1 LABEL (SHEET) <W,A,T>		
219	29361923Y	UPC LABEL <N>		

<D> : 120V model only
 <P> : 230V model only
 <W> : Worldwide model only
 <N> : American model only
 <C> : Canadian model only
 <A> : Australian model only
 <T> : Taiwanese model only

DX-C330

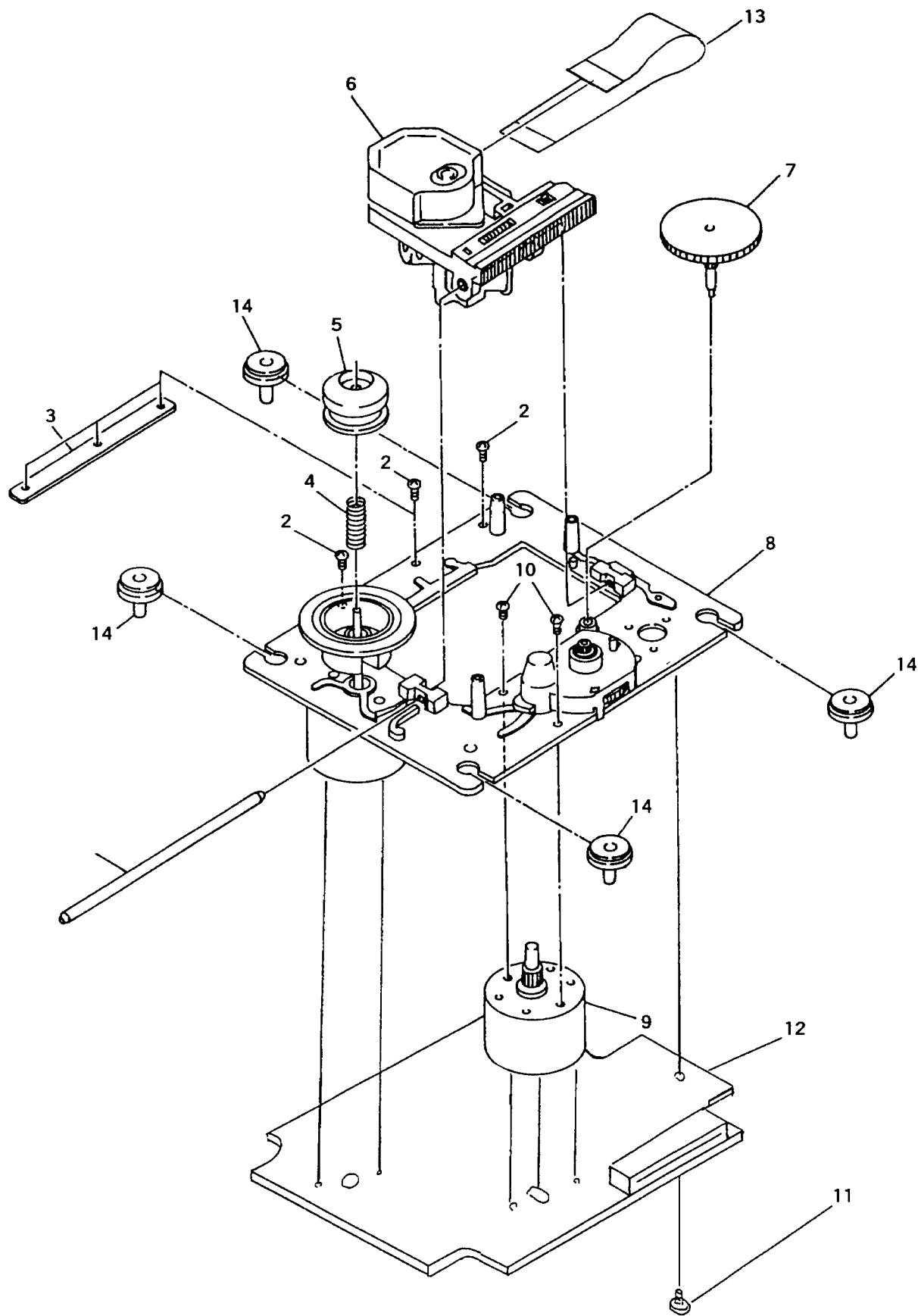
MECHANISM-EXPLODED VIEW



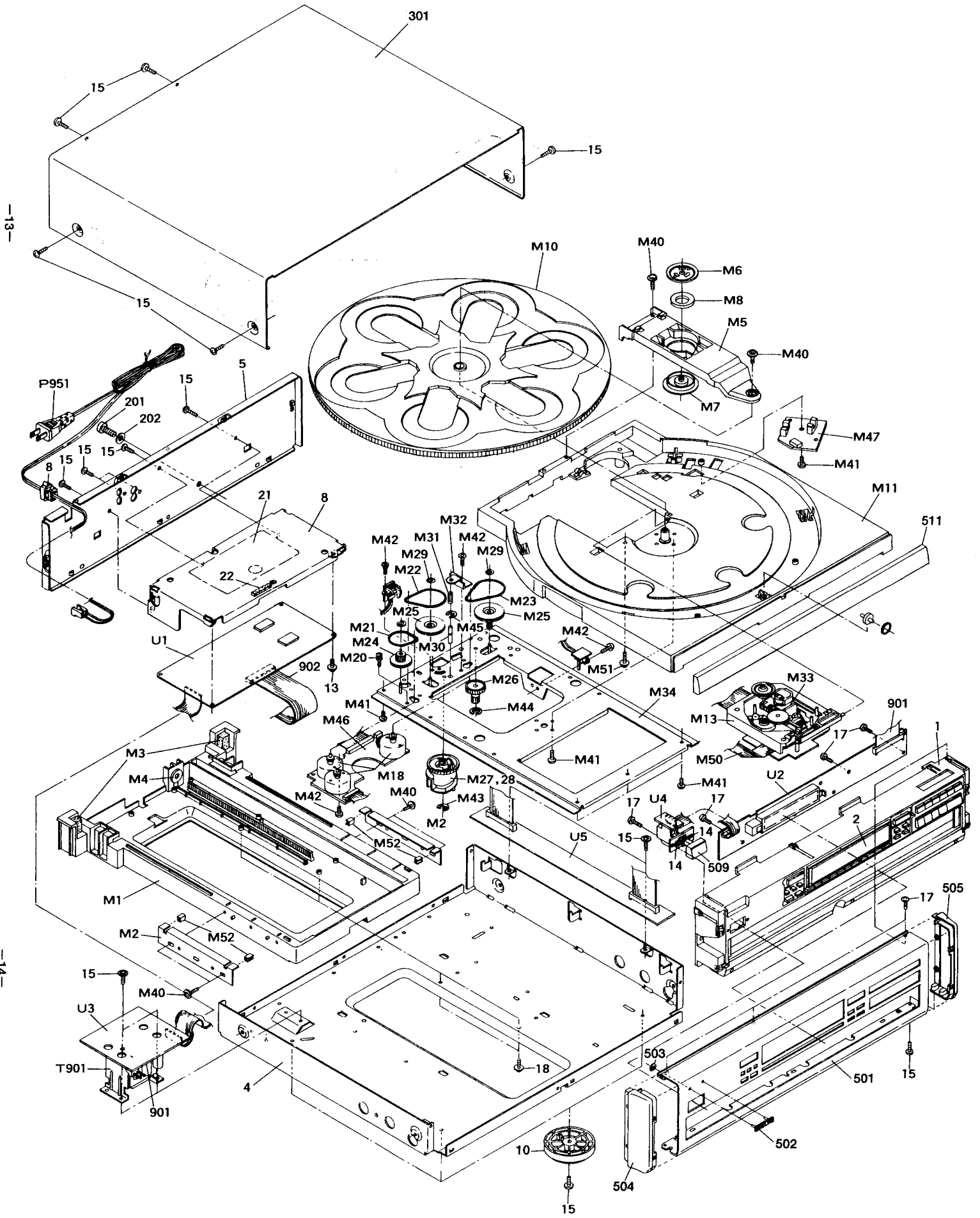
PARTS LIST

REF. NO.	PART NO.	DESCRIPTION
1	24828006	Sled shaft
2	24840068	2 x 5, Self-tapping screw
3	24822015A	Reinforcement plate
4	24820024	Spring
5	24824003	Centering
6	24110011	Pick-up
7	24810023	Wheel
8	24802014	Chassis ass'y
9	24804012	Sled motor ass'y
10	82112003	2P+3FN, Pan head screw
11	24840099	2 x 6, Self-tapping screw
12	24840075A	AR-AS-1A, RF/Servo pc board ass'y
13	24840074	Flexible cable
14	24818012	Insulator (FLT)
15	24802016	Chassis (SUB)
16	24828012	Shaft (FLT)
17	24820026	Spring (FLT)
18	24609072Y	Screw (FLT)

PICK-UP DRIVE UNIT KSK-1320A



EXPLODED VIEW



-13-

-14-

DAVOSU DAVOSU

PARTS LIST

CIRCUIT NO.	PART NO.	DESCRIPTION	CIRCUIT NO.	PART NO.	DESCRIPTION
1	27110801Y	FRONT BRACKET	P951	△ 253192HIT	AC CORD (AS-UC-6#18) <D>
2	28191679AY	CLEAR PLATE	U2	△ 253193HIT	AC CORD (AS-CEE) <W,T>
4	27100282AY	CHASSIS	U3	△ 253197HIT	AC CORD (AS-SAA) <A>
5	27122153Y	REAR PANEL <D>	T901	△ 2300992Y	POWER TRANSFORMER, NPT-1200D <D>
	27122155Y	REAR PANEL <W>		△ 2300994Y	POWER TRANSFORMER, NPT-1200DG <W>
	27122188Y	REAR PANEL <A,T>		△ 2300993Y	POWER TRANSFORMER, NPT-1200P <A,T>
8	27130731AY	BRACKET(PC)	U1	1H242520-2Y	NAAR-4920-2, MAIN CIRCUIT PC BOARD AS
10	27175292-1Y	LEG AS	U2	1H242521-2Y	NADIS-4921-2, DISPLAY CIRCUIT PC BOARD AS
11	△ 27300750	CORD BUSHING	U3	1H242522-2Y	NAPS-4922-2, POWER SUPPLY PC BOARD AS <D>
14	838430107Y	3TTB+10S(BC), SCREW	U4	1H242522-2BY	NAPS-4922-2B, POWER SUPPLY PC BOARD AS <W>
15	838130088Y	3TTB+8B, SCREW	U5	1H242523-2Y	NASW-4923-2, POWER SWITCH PC BOARD AS
17	833430080Y	3TTP+8P(BC), SCREW		1H242552-2Y	NAETC-4952-2, MAIN CIRCUIT PC BOARD AS
21	29361581Y	LABEL (ALL)			
22	28141240Y	CUSHION			
301	28184513-1Y	TOP COVER			
302	28141235	CUSHION			
501	27211763Y	FRONT PANEL			
502	28135199	BADGE			
503	8910301	CS RING			
504	28125248-6Y	END CAP (L)			
505	28125249-6Y	END CAP (R)			
509	28324140Y	KNOB (POW)			
511	28148306Y	DOOR			
517	838430088Y	3TTB+8B(BC), SCREW			
518	833430080Y	3TTP+8P(BC), SCREW			
519	838130088Y	3TTB+8B, SCREW			
901	2046341512Y	FFC (NCFC6-341512)			
902	2046312522	FFC (NCFC6-312522)			

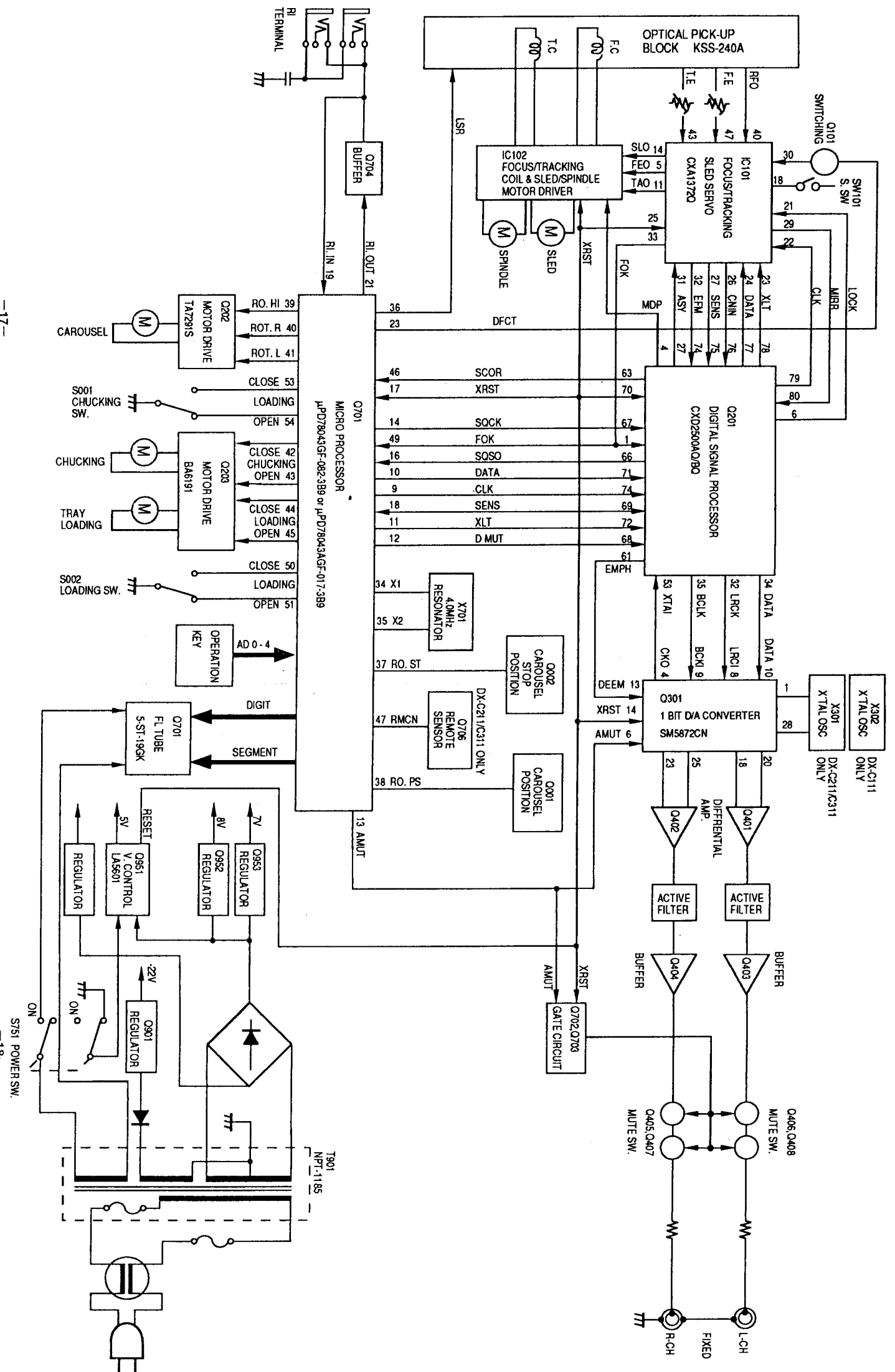
<D> : 120V model only
 <P> : 230V model only
 <W> : Worldwide model only
 <N> : American model only
 <C> : Canadian model only
 <A> : Australian model only
 <T> : Taiwanese model only

NOTE: THE COMPONENTS IDENTIFIED BY MARK △
 ARE CRITICAL FOR RISK OF FIRE AND
 ELECTRIC SHOCK. REPLACE ONLY WITH
 PART NUMBER SPECIFIED.

CHANGER MECHANISM PARTS LIST (NCD-56S-C)

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
M1	24840095AY	RAIL	M36	24828008Y	SHAFT (A)
M2	24822016BY	BRACKET (GUIDE)	M37	24828009AY	SHAFT (B)
M3	24836006AY	CUSHION (TRAY)	M38	24828010Y	SHAFT (C)
M4	24836016Y	CUSHION (LOCK)	M39	24828011Y	SHAFT (D)
M5	24814001A	ARM	M40	831430100Y	3TTW + 10P (BC), SCREW
M6	27301475	YOKE (CH)	M41	833430080Y	3TTP + 8P (BC) SCREW
M7	27301474B	CAP (CH)	M42	82112606Y	2.6P + 6FN, SCREW
M8	28181019A	MAGNET (CH)	M43	8930401SY	RING (E)
M9	24836007Y	CUSHION (A2)	M44	8930201SY	RING (E)
M10	24840096Y	ROULETTE	M45	8930301SY	RING (E)
M11	24840097Y	TRAY	M46	1H242542-1Y	ETC-AS
M12	24840098Y	ROLLER	M47	1H242543-1Y	ETC-AS
M18	24804015Y	MOTOR	M48	1H242544-1Y	SW-AS
M19	24810028Y	PULLEY	M49	1H242545-1Y	SW-AS
M20	24609071AY	SCREW	M50	2046220822Y	FLAT CABLE
M21	24816009Y	RBR BELT (A)	M51	24609073Y	SCREW
M22	24816010AY	RBR BELT (B)	M52	24834015	EDGING
M23	24816011Y	RBR BELT (D)	M53	260208Y	WIRE TIE
M24	24810029Y	GEAR (A)	M54	24836017Y	CUSHION (OP)
M25	24810030Y	GEAR (B)			
M26	24810031Y	GEAR (D)			
M27	24810026Y	CAM GEAR (A)			
M28	24810027Y	CAM GEAR (B)			
M29	24834014Y	WASHER			
M30	24828007Y	SHAFT			
M31	24820025Y	SPRING			
M32	24822017Y	BRACKET (PH)			
M33	24800011BY	CDP M			
M34	24802017AY	CHASSIS AS			
M35	24802015AY	CHASSIS			

DX-C330

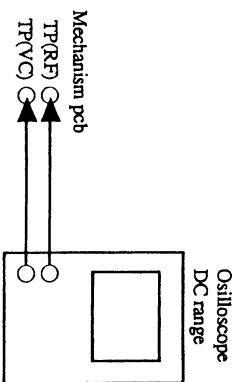


ADJUSTMENT PROCEDURES

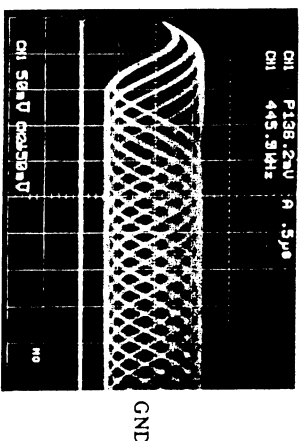
It is not necessary to perform the adjustment of optical pickup.

This confirmation should be made when replacing the optical pickup.

- 1). Connect the oscilloscope to test points RF and VC.



- 2). Turn the power switch on.
 - 3). Load the test disc YEDS-18 on the tray and press the play button.
 - 4). Confirm that the waveform on the oscilloscope is optimum eye pattern and optimum level as shown photo 1.
- Optimum eye pattern means that shape "◇" can be clearly distinguished at the center of the waveform.



REFERENCE

Focus/Tracking Gain Adjustment

A frequency response analyzer is necessary in order to perform this adjustment exactly. However, this gain has a margin, so even if it is slightly off, there is no problem. Therefore, do not perform this adjustment.

Focus/tracking gain determines the pick-up follow-up (vertical and horizontal) relative to mechanical noise and mechanical shock when the 2-axis device operate.

However, as these reciprocate, the adjustment is at the point where both are satisfied.

- When gain is raised, the noise when the 2-axis device operates increases.
- When gain is lowered, it is more susceptible to mechanical shock and skipping occurs more easily.
- When gain adjustment is off, the symptoms below appear.

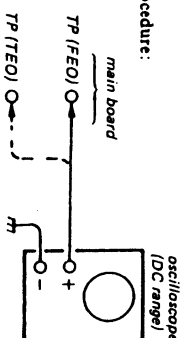
Symptoms	Gain	Focus	Tracking
• The time until music starts becomes longer for STOP → PLAY or automatic selection (◀▶) buttons pressed. (Normally takes about 2 seconds.)	low	low	low or high
• Music does not start and disc continues to rotate for STOP → PLAY or automatic selection (◀▶) buttons pressed.)	—	—	low
• Disc table opens shortly after STOP → PLAY.	low or high	—	—
• Sound is interrupted during PLAY. Or time counter display stops progressing.	—	—	low
• More noise during 2-axis device operation.	high	high	high

The following is a simple adjustment method.

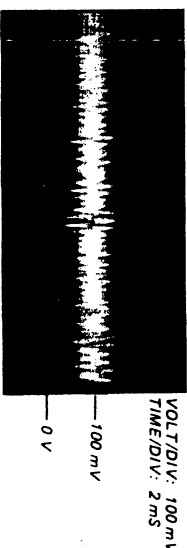
Simple Adjustment

Note: Since exact adjustment cannot be performed, remember the positions of the controls before performing the adjustment. If the positions after the simple adjustment are only a little different, return the controls to the original position.

Procedure:



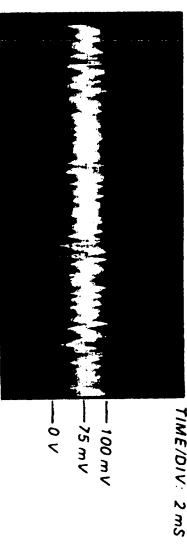
1. Keep the set horizontal.
(If the set is not horizontal, this adjustment cannot be performed due to the gravity against the 2 axis device.)
2. Insert disc (YEDS-18) and press ▶PLAY button.
3. Connect oscilloscope to RF/Servo board TP (FE).
4. Adjust RV102 so that the waveform is as shown in the figure below. (focus gain adjustment)



low focus gain



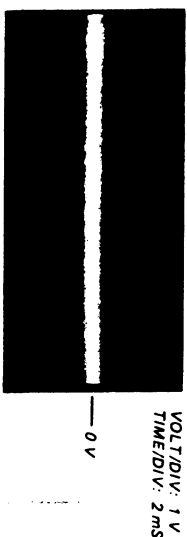
high focus gain



- Incorrect Examples (DC level changes more than on adjusted waveform)

5. Connect oscilloscope to RF/Servo board TP (TE).

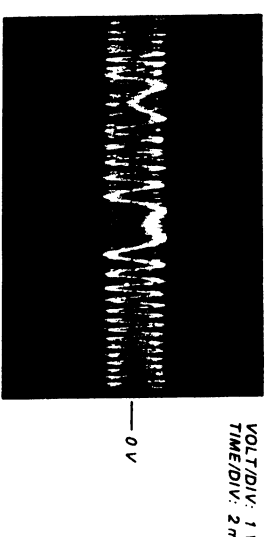
6. Adjust RV101 so that the waveform is as shown in the figure below. (tracking gain adjustment)



- Incorrect Examples (fundamental wave appears)



low tracking gain



high tracking gain
(higher fundamental wave than for low gain)

PRINTED CIRCUIT BOARD — PARTS LIST

Main circuit pc board (NAAR-4920)

CIRCUIT NO.	PART NO.	DESCRIPTION	CIRCUIT NO.	PART NO.	DESCRIPTION
	ICs				
Q201	22240487 or 22240487A	CXD2500AQ or CXD2500BQ	C203	354721019	100 μ F, 6.3V, Elect.
Q202	22240239	TA7291S	C205	374721034	0.01 μ F \pm 5%, 50V, Plastic
Q203	22240771	BA6191	C206	354781099	0.1 μ F, 50V, Elect.
Q301	22240726	SM5872CN	C207-C210	354744709	47 μ F, 16V, Elect.
Q401	22240191	NJM4565D-D	C303, C305, C307	354722219	220 μ F, 6.3V, Elect.
Q402	22240191	NJM4565D-D	C308	374721044	0.01 μ F \pm 5%, 50V, Plastic
Q403	22240191	NJM4565D-D	C309	354722219	220 μ F, 6.3V, Elect.
Q404	22240191	NJM4565D-D	C310, C407, C408	374721044	0.01 μ F \pm 5%, 50V, Plastic
Q701	22240812	μ PD78043AGF-017-3B9	C409, C410, C413, C414	374721824	1800pF \pm 5%, 50V, Plastic
Q951	22240534	LA5601	C415, C416	374724724	4700pF \pm 5%, 50V, Plastic
	Transistors		C419	354781009	10 μ F, 50V, Elect.
Q405-Q408	2211706 or 2211705	2SD655-F or 2SD655-E	C420	354781009	50V, 10 μ F, Elect.
Q702	221281	DTC114YS	C431-C434	354744709	47 μ F, 16V, Elect.
Q703, Q704	2212600	DTA124ES	C439, C440	354744719	470 μ F, 16V, Elect.
Q901	2211503 or 2211504	2SA950-O or 2SA950-Y	C701	354721019	100 μ F, 6.3V, Elect.
Q952	2211706 or 2211705	2SD655-F or 2SD655-E	C703	354762209	22 μ F, 35V, Elect.
Q953	2202706 or 2202115	2SD2394-F or 2SD2061-E	C707	374721024	1000pF \pm 5%, 50V, Plastic
Q957	2211255	2SC1815-GR	C708, C709	374722734	0.027 μ F \pm 5%, 50V, Plastic
	Diodes		C714	354780109	1 μ F, 50V, Elect.
D201	223205 or 223163	1SS270A or 1SS133	C903, C904	354764709	47 μ F, 35V, Elect.
D202	224450562	MTZ5.6B, Zener	C924, C925	374721044	0.01 μ F \pm 5%, 50V, Plastic
D701	223205 or 223163	1SS270A or 1SS133	C953	354742219	220 μ F, 16V, Elect.
D702	224450562	MTZ5.6B, Zener	C954	374721044	0.01 μ F \pm 5%, 50V, Plastic
D703	223205 or 223163	1SS270A or 1SS133		374722244	0.22 μ F \pm 5%, 50V, Plastic
D704	224450562	MTZ5.6B, Zener	C955	354724719	470 μ F, 6.3V, Elect.
D906	224452204	MTZ22D, Zener	C956	374721044	0.01 μ F \pm 5%, 50V, Plastic
D951	224450753	MTZ7.5C, Zener		374722244	0.22 μ F \pm 5%, 50V, Plastic
D952	223205 or 223163	1SS270A or 1SS133	C957	354780109	1 μ F, 50V, Elect.
	Crystals		C958	354721029	1000 μ F, 6.3V, Elect.
X301	3010159	AT-38-169, Crystal	C960	374721044	0.01 μ F \pm 5%, 50V, Plastic
X701	3010229	EFOEC4004A4, Cera lock	C961	374722734	0.027 μ F \pm 5%, 50V, Plastic
	Capacitors		C962	354722219	220 μ F, 6.3V, Elect.
C201	374721524	1500pF \pm 5%, 50V, Plastic	C963, C964	354744709	47 μ F, 16V, Elect.
C202	374724734	0.047 μ F \pm 5%, 50V, Plastic	C966	354781009	10 μ F, 50V, Elect.
			C967	354742219	220 μ F, 16V, Elect.
			Resistors		
			R903	452530184F	1.8ohms, 1/2W, Metal oxide
			Sockets		
			P101A	25050895	NSCT-31P690, Socket
			P702A	25051227	NSCT-34P1017, Socket
			Terminals		
			P401	25045408	NPJ-2PDBL233, Line out
			P701	25045330	NPJ-2PDBL184, RI

DX-C330

Display circuit pc board (NADIS-4921)

CIRCUIT NO.	PART NO.	DESCRIPTION
Q705	212132	5-ST-19GK, FL TUBE
Q706	24130010	HC-312, Remote sensor
		Diode
D707	224450512	MTZ5.1B, Zener
		Capacitor
C710	355721019	100 μ F, 6.3V, Elect.
		Switches, Terminals, Sockets
S703-S705	25035652	NPS-111-S604, Push SW.
S708-S710	25035652	NPS-111-S604, Push SW.
S713-S715	25035652	NPS-111-S604, Push SW.
S718-S720	25035652	NPS-111-S604, Push SW.
S724-S725	25035652	NPS-111-S604, Push SW.
S729, S730,	25035652	NPS-111-S604, Push SW.
S734, S735,		
S739, S740		
		Socket
P703A	25051227	NSCT-34P1017, Socket

Power supply pc board (NAPS-4922)

CIRCUIT NO.	PART NO.	DESCRIPTION
		Diode
D901-D905	22380032	1SR139-100
		Coil
L901	231222	NCH-3454
		Capacitors
C902	354784709	47 μ F, 50V, Elect.
C906	393142227	2200 μ F, 16V, Elect.
C907	393142227	2200 μ F, 16V, Elect.
C909	3500077	DE7150F, 472M, IS
		Plug
Δ P901A	25055676	NPLG-2P632, FOR AC CORD
		Others
	25050065Y	YSH403T, Fuse holder, <P,W>
Δ S901	25065437Y	NSS-22157P, Slide SW., <W>

Power switch pc board (NASW-4923)

CIRCUIT NO.	PART NO.	DESCRIPTION
Δ S751	25035481	NPS-122-L443, Push SW.

RF/SERVO pc board

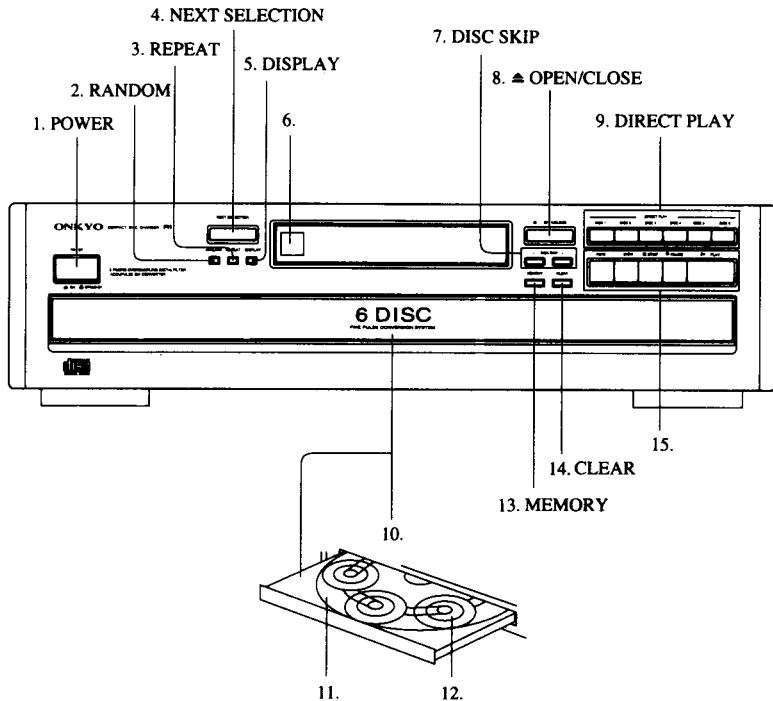
CIRCUIT NO.	PART NO.	DESCRIPTION
IC101	22240394	CXA1372Q, IC
IC102	22240551	LA6532M, IC
Q101	2214290	DTC144EF, Transistor
S101	25065446	NLF/11022, Leaf SW.

NOTE: THE COMPONENTS IDENTIFIED BY MARK Δ ARE CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK. REPLACE ONLY WITH PART NUMBER SPECIFIED.

CONTROL POSITIONS AND NAMES

NOTE:

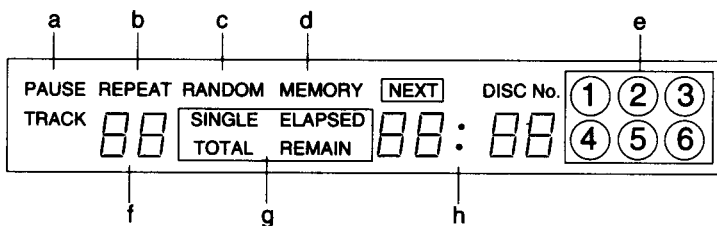
If there is a protective film on the display, which is making it difficult to read the display, remove it.



Front panel

1. POWER button
2. RANDOM button
3. REPEAT button
4. NEXT SELECTION button
5. DISPLAY button
6. Remote Control Sensor
7. DISC SKIP buttons
8. OPEN/CLOSE button
9. DIRECT PLAY buttons
10. Loading drawer
11. Disc tray(s) (1 - 6)
12. Carousel
13. MEMORY button
14. CLEAR button
15. Operation buttons

- ◀◀ :Down button
- ▶▶ :Up button
- ⏸ PAUSE :Pause button
- STOP :Stop button
- ▶ PLAY :Play button

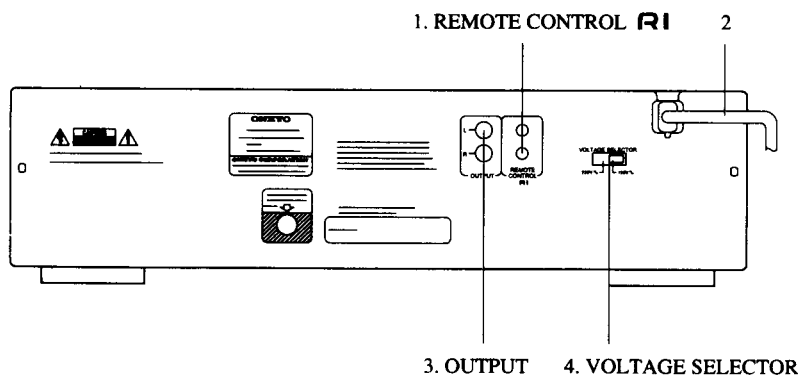


Display

- a. PAUSE indicator
- b. REPEAT indicator
- c. RANDOM indicator
- d. MEMORY indicator
- e. Disc number indicator
- f. TRACK number display
- g. ELAPSED/REMAIN indicator
- h. Time display

Rear panel

1. REMOTE CONTROL jacks
2. Power Supply Cord
3. Analog OUTPUT jacks
4. VOLTAGE SELECTOR (Worldwide models only)



A

B

C

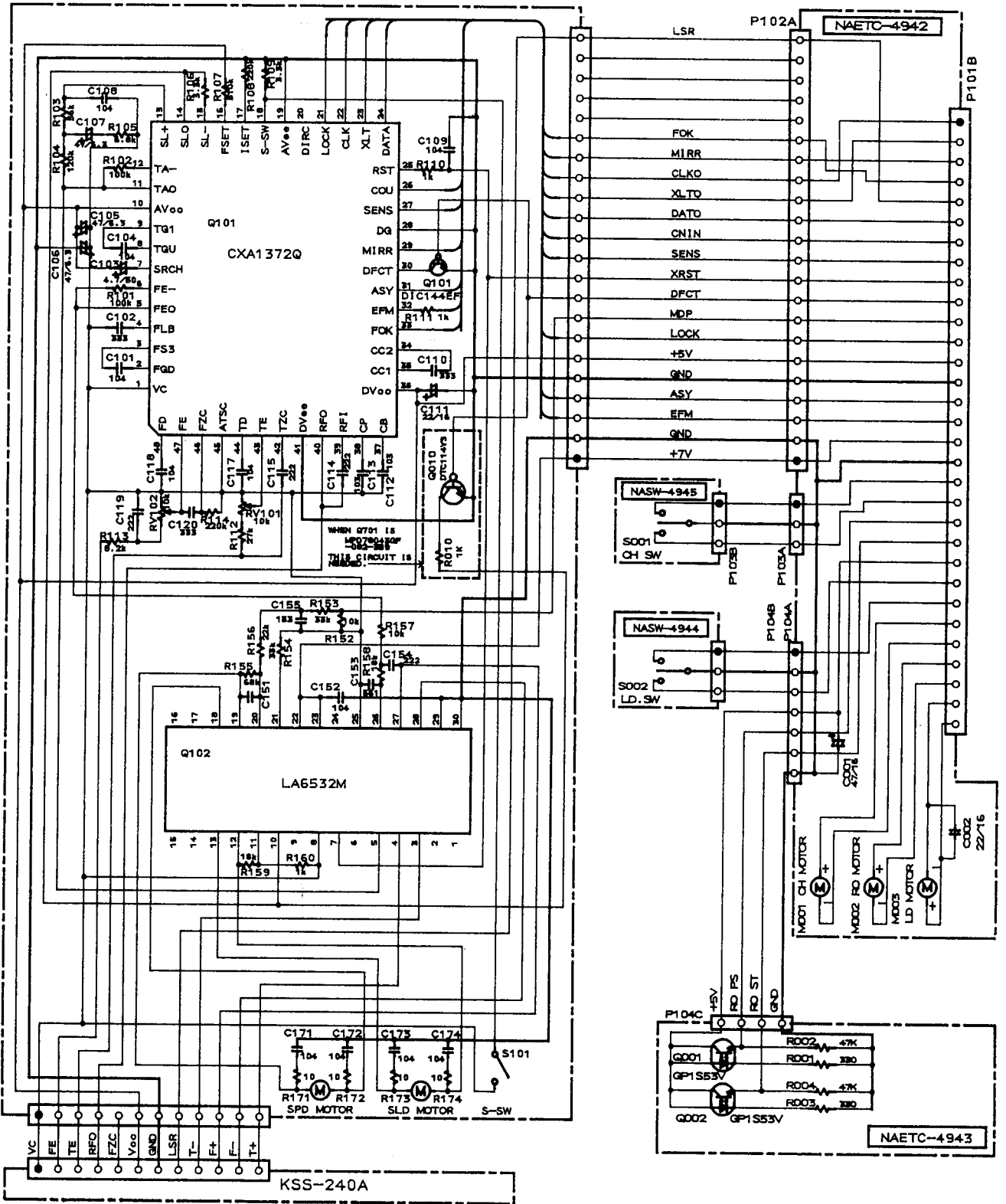
SCHEMATIC DIAGRAM (2/2)

1

2

3

4



RF PCB