

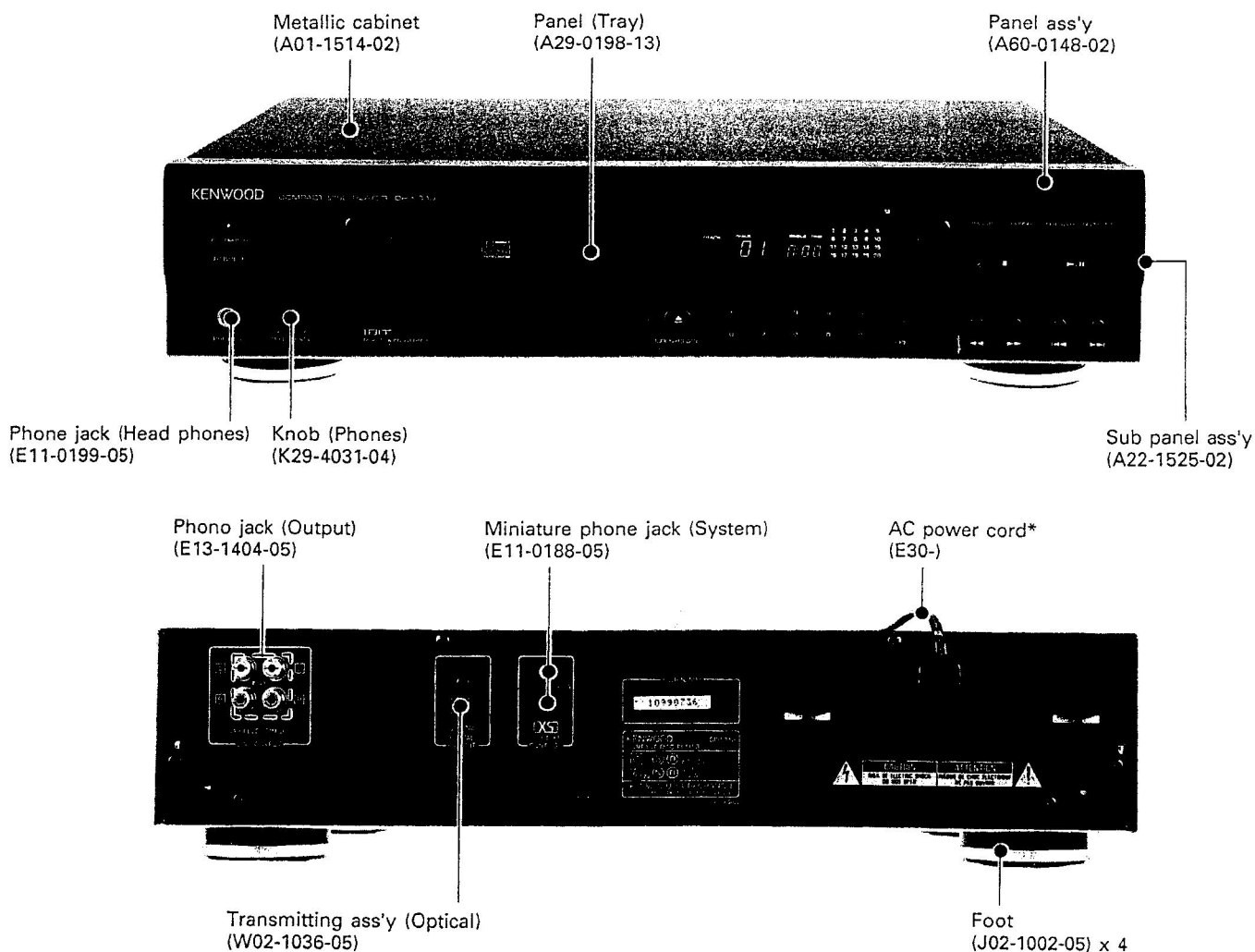
CD PLAYER

DP-5040

SERVICE MANUAL

KENWOOD

© 1991-11 PRINTED IN JAPAN
B51-4336-00(O) 2277



* Refer to parts list on page 27.

In compliance with Federal Regulations, following are reproductions of labels on, or inside the product relating to laser product safety.

KENWOOD-Corp. certifies this equipment conforms to DHHS Regulations No. 21 CFR 1040. 10, Chapter 1, Subchapter J.

DANGER : Laser radiation when open and interlock defeated. AVOID DIRECT EXPOSURE TO BEAM.

Note : Refer to DP-7040 service manual (B51-4337-00), if you want to know more information of Semiconductor description, Mechanism description and more.

DP-5040

CONTENTS/ACCESSORIES

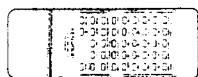
CONTENTS

ACCESSORIES	2	ADJUSTMENT	14
CONTROLS	3	PC BOARD (COMPONENT SIDE VIEW)	
REMOTE CONTROL	4	16, 19, 20
DISASSEMBLY FOR REPAIR	5	SCHEMATIC DIAGRAM	17, 18, 21~24
BLOCK DIAGRAM	9	EXPLODED VIEW (MECHANISM)	25
CIRCUIT DESCRIPTION		EXPLODED VIEW (UNIT)	26
1. Test Mode	10	PARTS LIST	27
2. Microprocessor : μ PD75216ACW-C62		SPECIFICATIONS	BACK COVER
(IC6 : X32-2112-70)	12		

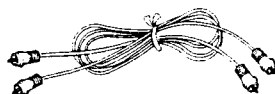
Note : Refer to DP-7040 service manual (B51-4337-00), if you want to know more information of Semiconductor description, Mechanism description and more.

ACCESSORIES

- Remote control unit 1
(A70-0568-05)



- Audio cord 1
(E30-0505-05)



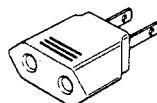
- System control cord 1
(E30-0977-05)



- Batteries ("R6/AA") 2
(-)

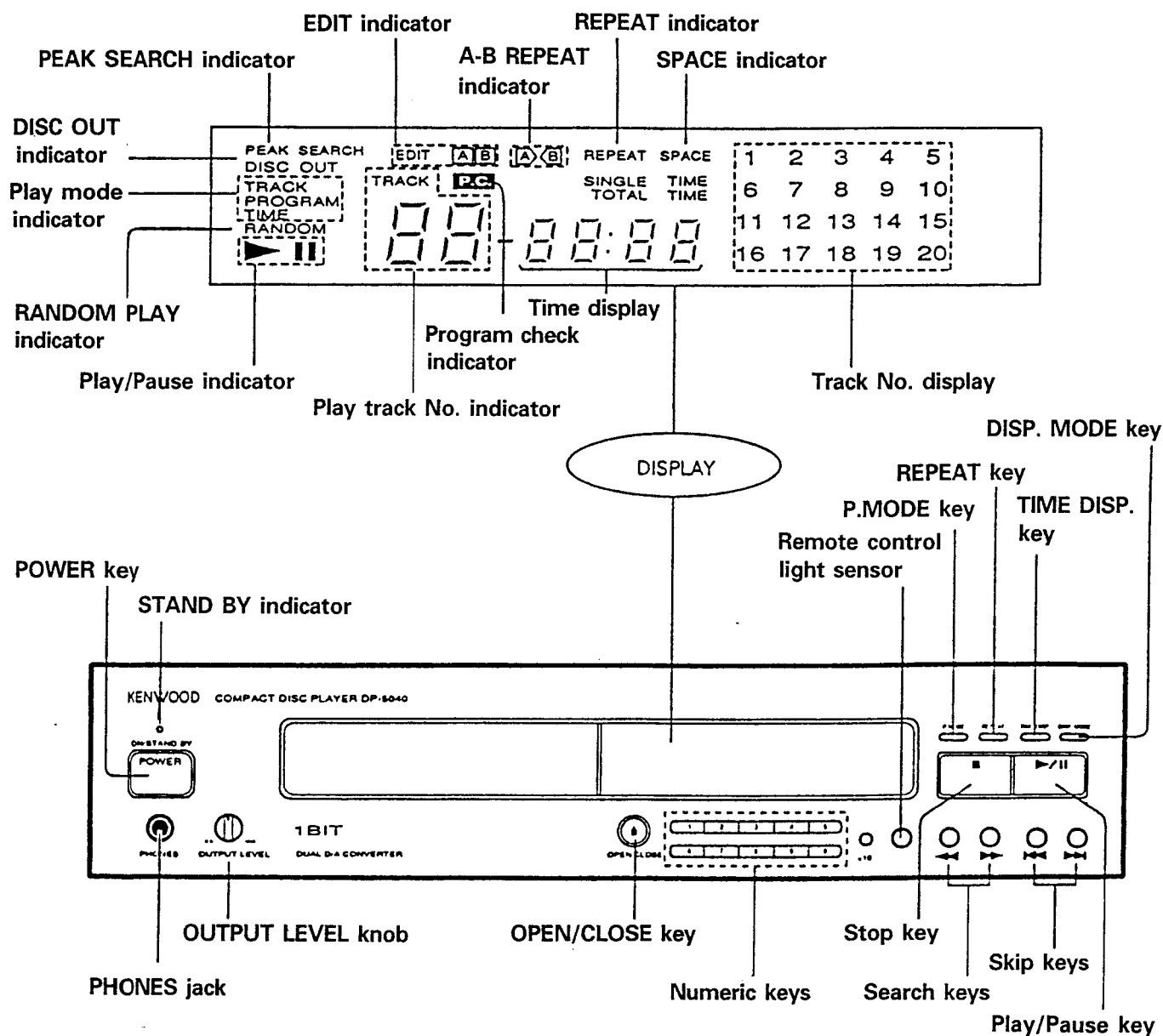


- AC plug adaptor 1
(E03-0115-05)



(Except for some areas)
For the unit with a European AC plug
in areas other than Europe.

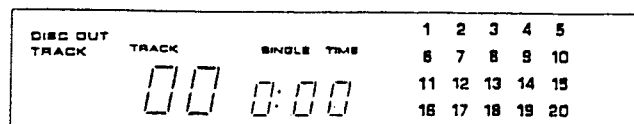
CONTROLS



Caution

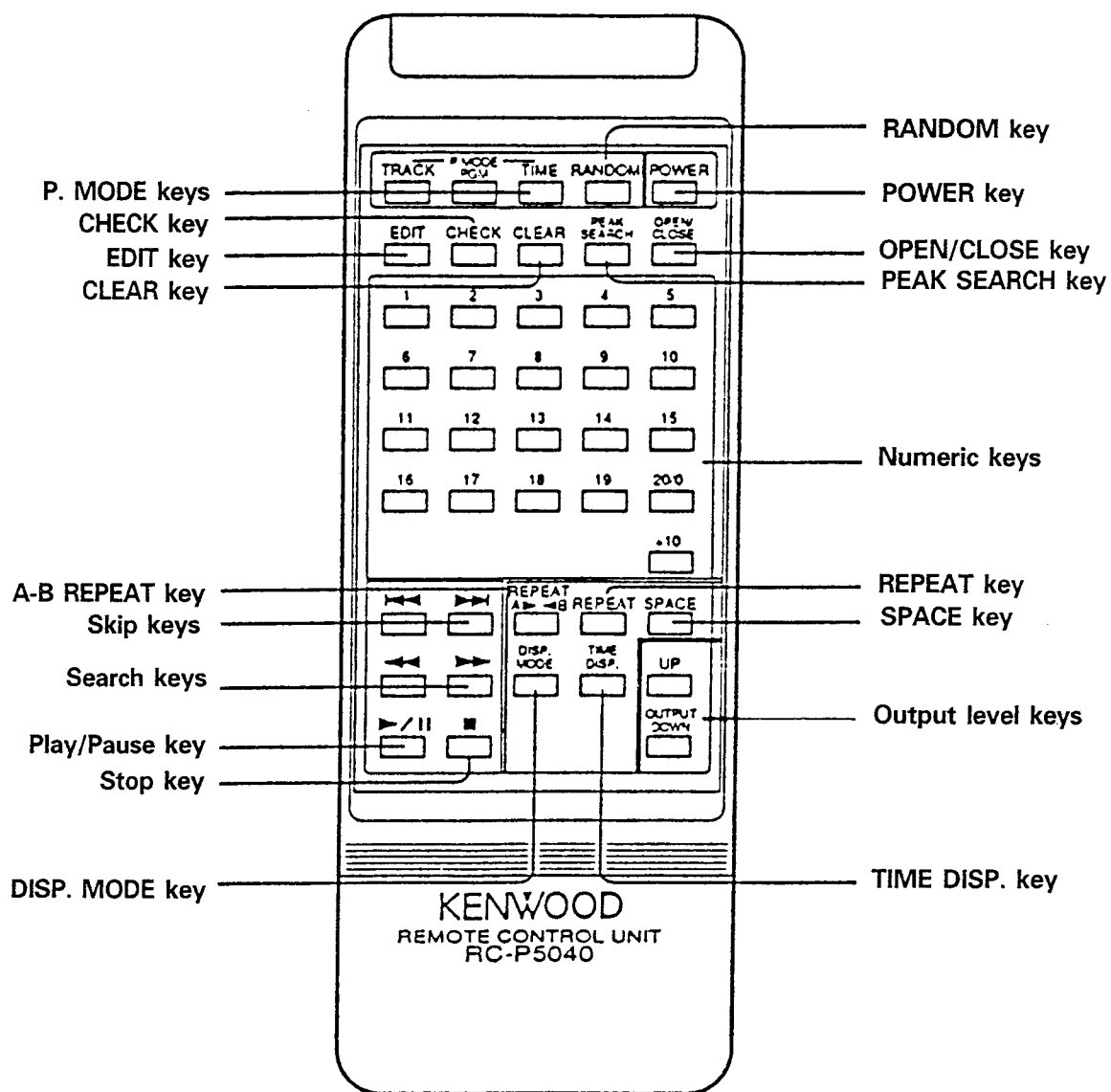
• **Note related to transportation and movement**
Carry out the operations listed below before transporting or moving this unit.

1. After making sure that there is no disc loaded in the unit, turn the POWER switch ON.
2. Wait for several seconds to verify that the display becomes as shown, and then turn the POWER switch back OFF.



DP-5040

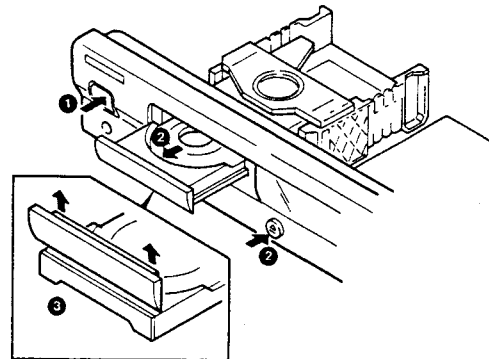
REMOTE CONTROLS



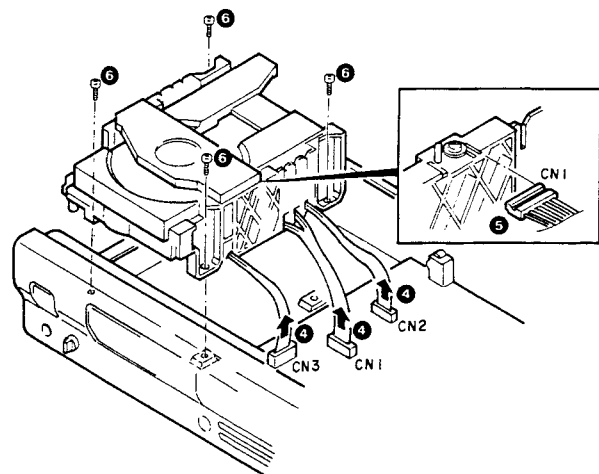
DISASSEMBLY FOR REPAIR

1. How to Disassemble Mechanism

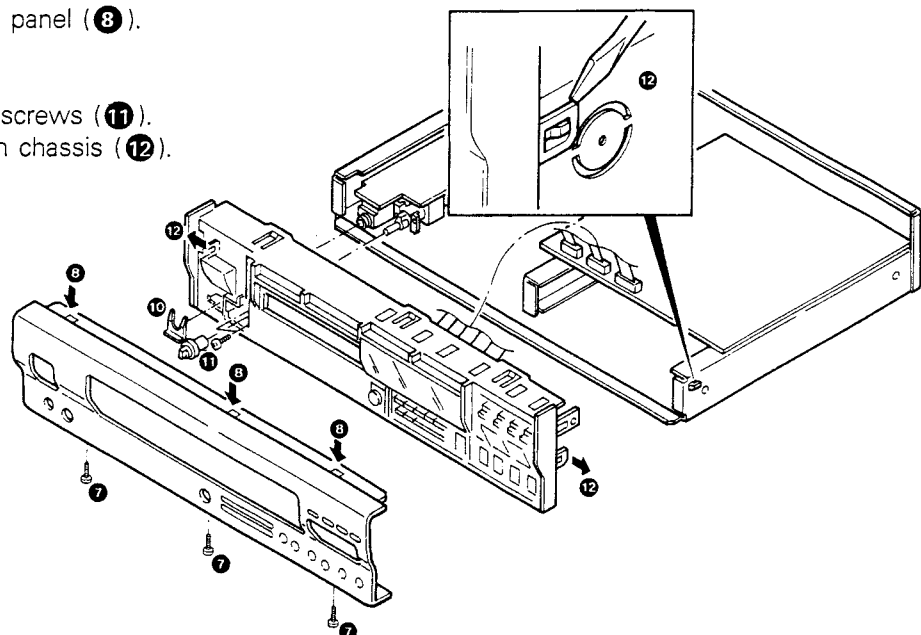
1. Push power switch to ON (①).
2. Push open switch and slide the tray outwards (②).
3. Remove the tray panel (③).



4. Remove 3 connectors (④).
5. Insert connector CN1 to LD short pin (⑤).
6. Remove 4 screws (⑥) and mechanism ass'y.



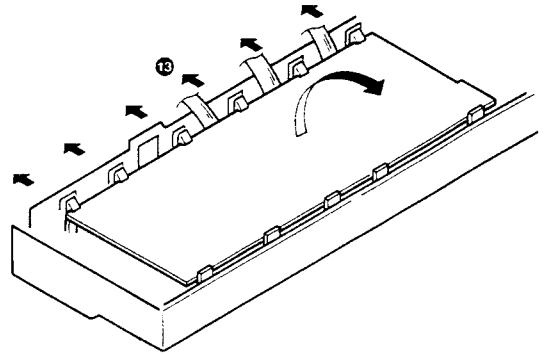
7. Remove 3 screws (⑦).
8. Remove sub panel catches from panel (⑧).
9. Remove 3 connectors (⑨).
10. Remove phones stopper (⑩).
11. Pull phones knob and remove 2 screws (⑪).
12. Remove sub panel catchers from chassis (⑫).



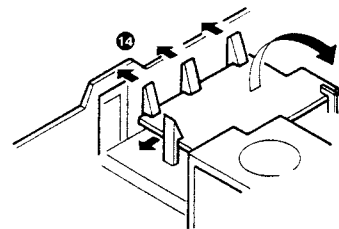
P-5040

DISASSEMBLY FOR REPAIR

13. Remove pcb catchers and pcb (13).

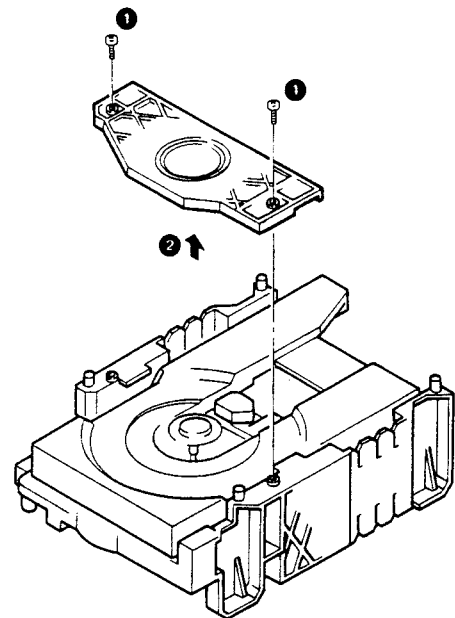


14. Remove pcb catchers and pcb (14).



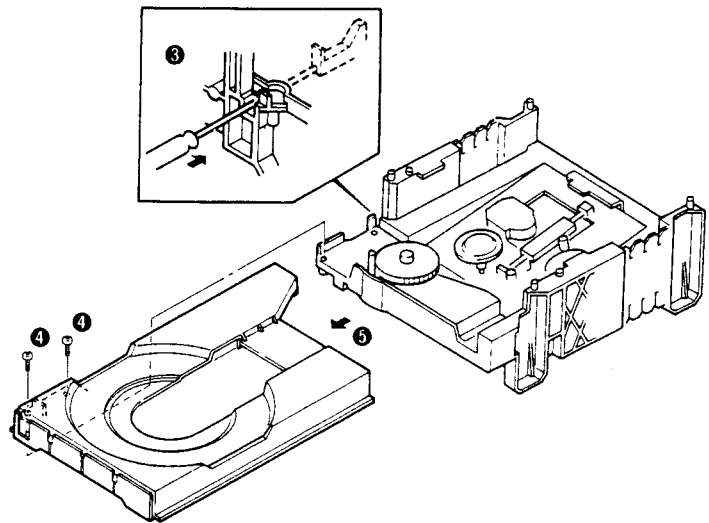
2. How to Remove Tray

1. Remove 2 screws (1).
2. Remove clamber ass'y (2).



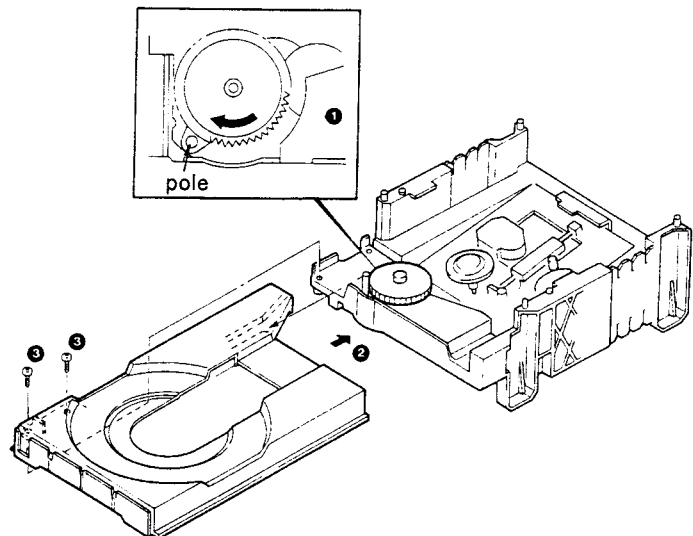
DISASSEMBLY FOR REPAIR

3. Insert the driver to left-side hole of mechanism ass'y and push the slider (3).
4. Remove 2 screws (4).
5. Tray can be pulled out (5).



3. How to Mount Tray

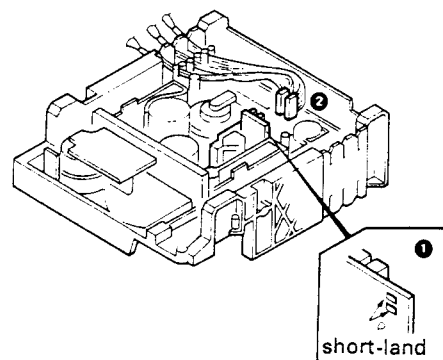
1. Set the pole to fully clockwise (1).
2. Insert the tray to both-side guide on chassis (2).
3. Fix 2 screws (3).



4. How to Replace the Pickup

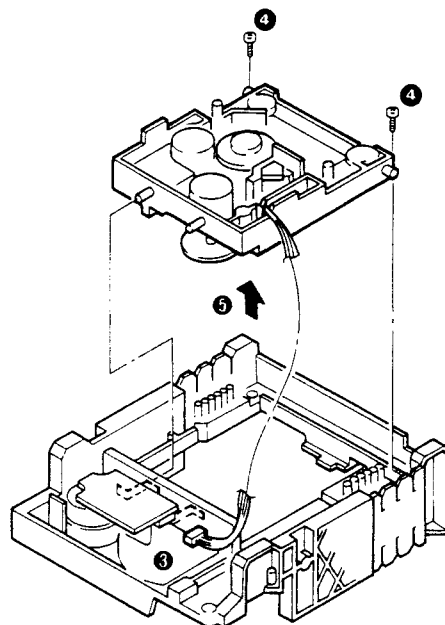
Short the short-land of the pickup before the following procedures (1).

1. Remove 2 connectors (2).

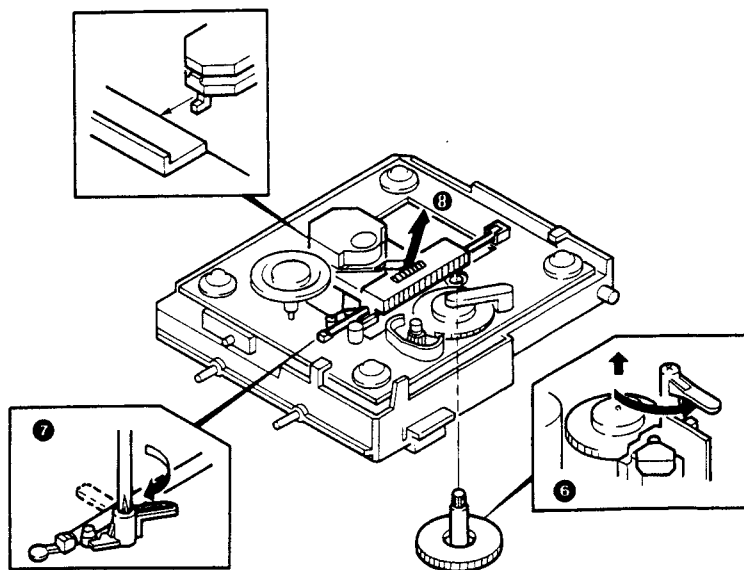


DISASSEMBLY FOR REPAIR

2. Remove the connector (3).
3. Remove 2 screws (4).
4. Remove the mechanism drive (MD) ass'y (5).

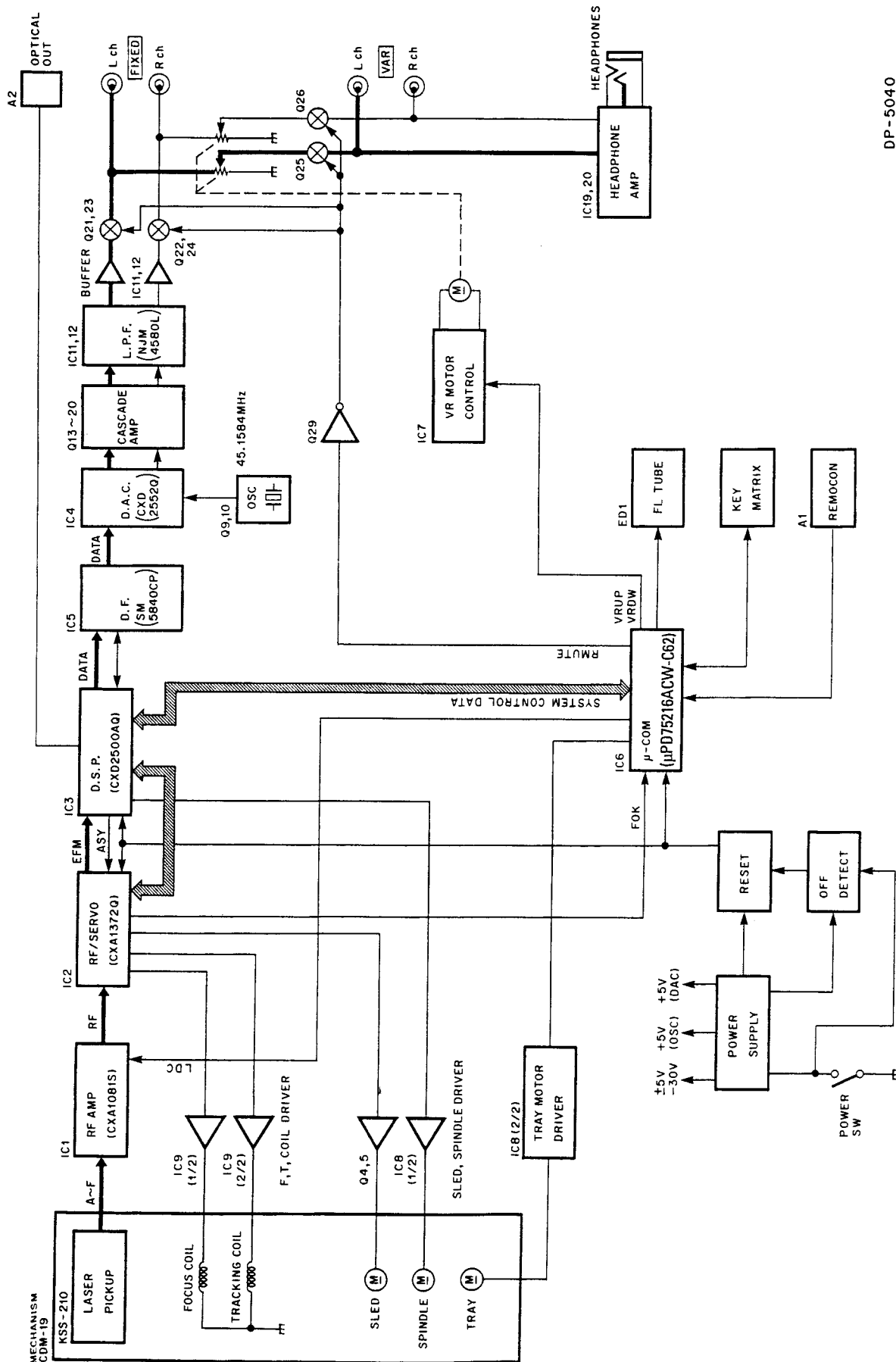


5. Remove stopper and gear (6).
6. Remove rod stopper (7).
7. Remove the pickup ass'y (8).



Note : When mounting the pickup, in the reverse order of disassembly. Unsolder the short land after connecting the flexible wire.

BLOCK DIAGRAM



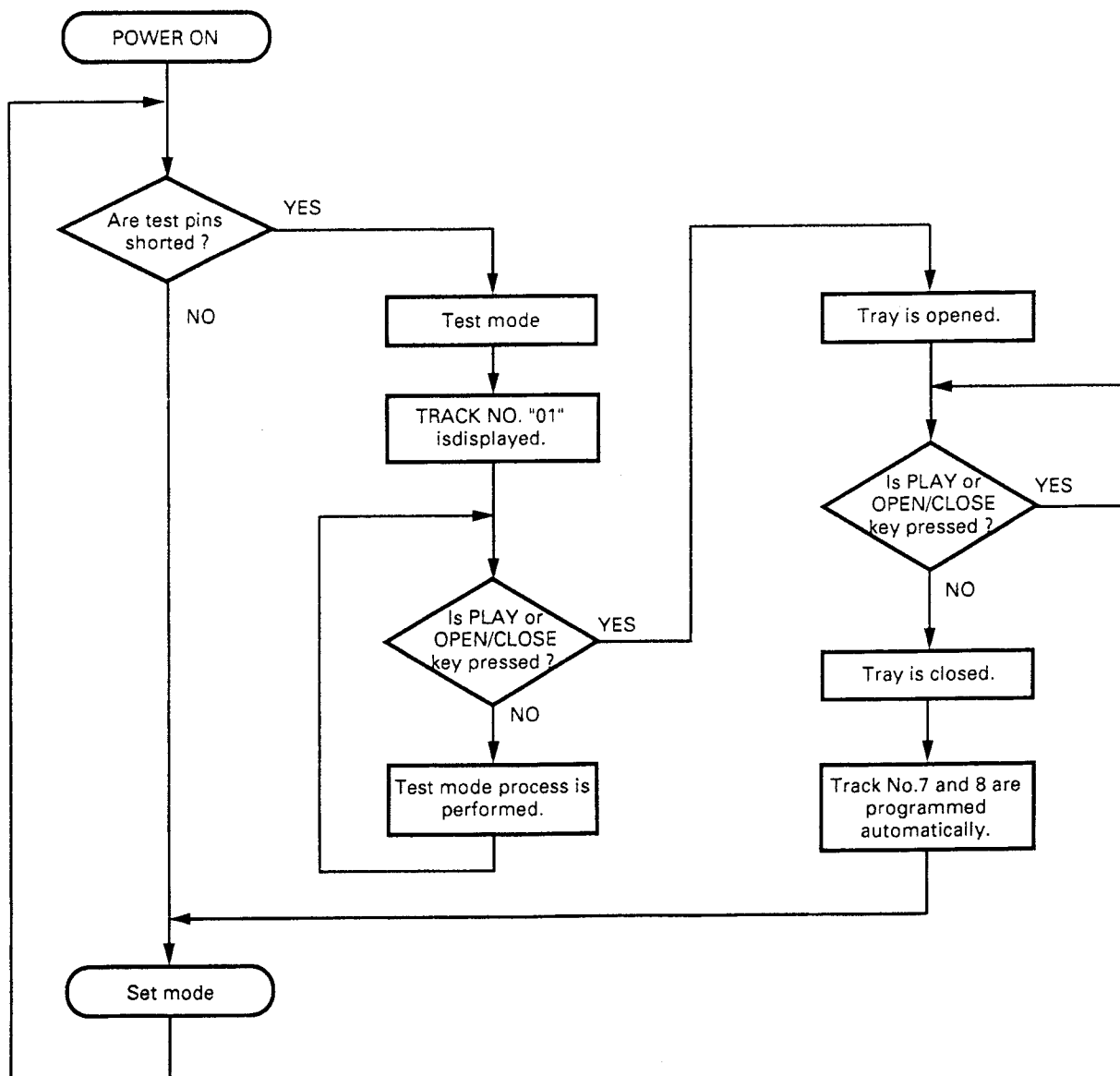
DP-5040

CIRCUIT DESCRIPTION

1. Test Mode

1-1. Setting the test mode

This microprocessor built this unit can be put to TEST MODE by just short-circuiting the test pins (#3 and #4).



CIRCUIT DESCRIPTION

1-2. Key and functions valid in test mode

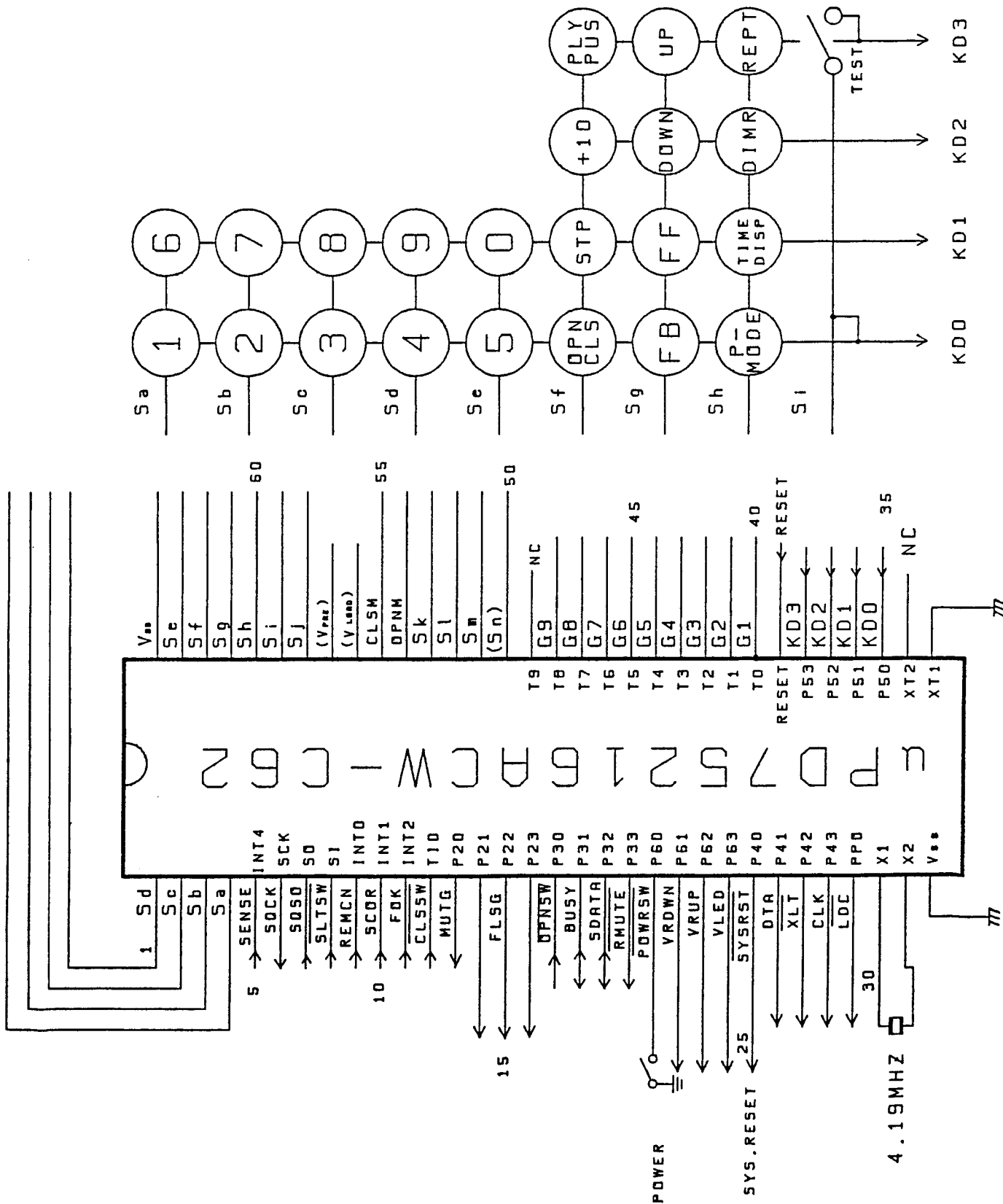
No.	Input key	Function	Track No. display
1	PLAY / PAUSE (▶/)	(1) Focusing servoON (2) Tracking servoON (3) Feed servoON	TRACK NO. 05 ↓ Displayed for a few seconds after completion (1), (2) and (3). ↓ Time ▶ (Play mark) and disc Track No. are displayed.
2	DISPLAY MODE	(1) Focusing servoON (2) Tracking servoOFF (3) Feed servoOFF Pause () is blinked.	TRACK NO. 03
3	STOP (■)	(1) Focusing servoOFF (2) Tracking servoOFF (3) Feed servoOFF	TRACK NO. 01
4	UP (▶▶)	Turns all FL display lamps ON.	TRACK NO. 88
5	DOWN (◀◀)	Turns all FL display lamps OFF. "TRACK NO." is lighted.	TRACK NO. 88
6	P.MODE	Track No. 7 and 8 are programmed and playbaced. The test mode is canceled.	-
7	OPEN / CLOSE (▲)	When the tray is opened then closed in test mode. Track No. 7 and 8 are programmed and set is in STOP mode. The test mode is canceled.	-
8	FF (▶▶)	In the STOP mode, moves the pickup slightly toward the position of disc. The test mode is available in this condition.	-
9	FB (◀◀)	In the STOP mode, moves the pickup slightly toward the position of disc. If turn on start limit switch, the pickup stops to move.	-

DP-5040

CIRCUIT DESCRIPTION

2. Microprocessor : μ PD75216ACW-C62 (IC6 : X32-2112-70)

2-1. Pin connection



CIRCUIT DESCRIPTION

2-2. Pin function

Pin No.	Pin name	I/O	Function
1~4	Sd~Sa	O	FL segment control terminals (also used for key scan signal).
5	SENSE	I	Signal detection terminal for SENSE signal from processor and servo ICs.
6	SQCK	O	Q data read clock output terminal.
7	SQSO	I	Q data input terminal.
8	SLTSW	I	Start limit switch (L : sw on).
9	REMCN	I	Remote control input terminal.
10	SCOR	I	Sub-code frame sync detection signal input terminal.
11	FOK	I	Input terminal for FOK signal from RF amp (focus OK : "H").
12	CLSSW	I	Tray close-switch (L : sw on).
13	MUTG	O	Digital mute signal to CXD2500 (H : mute on).
14	—	O	Not used.
15	FLSG	O	Display control (H : display off).
16	—	O	Not used.
17	OPNSW	O	Tray open switch (L : tray open).
18	BUSY	I/O	Busy signal input/output terminal.
19	SDATA	I/O	Serial data signal input/output terminal.
20	RMUTE	O	Really mute signal (L : mute on).
21	POWRSW	—	Power key switch input terminal (L : key is pressed).
22	VRDWN	O	Headphone volume control (H : vol. down).
23	VRUP	O	Headphone volume control (H : vol. down).
24	VLED	O	Headphone volume control (LED blink : volume knob is turning).
25	SYSRST	O	System reset signal (L : reset).
26	DTA	O	Data output terminal to CXD2500.
27	XLT	O	Data latch output terminal to CXD2500.
28	CLK	O	Clock output terminal to send data to CXD2500.
29	LDC	O	Laser diode control (L : on, H : off).
30	X1	I	Input terminal of system clock (4.19MHz).
31	X2	I	Input terminal of system clock (4.19MHz).
32	Vss	—	GND.
33	XT1	—	Vss.
34	XT2	—	Open.
35~38	KD0~KD3	I	Key data input terminal.
39	RESET	I	Reset input terminal (active "L").
40~48	G1~9	O	FL digit control terminals.
49	T9	—	N.C.
50	Sn	O	Not used.
51~53	Sm~Sk	O	FL segments control terminals.
54	OPNM	O	Output terminal of tray-open signal.
55	CLSM	O	Output terminal of tray-close signal.
56	VLOAD	—	FL driver power supply.
57	VPRE	—	FL pre-driver power supply.
58~63	Sj~Se	O	FL segment control terminals.
64	VDD	—	Power supply.

ADJUSTMENT

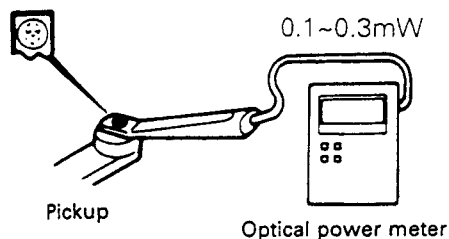
No.	ITEM	INPUT SETTING	OUTPUT SETTING	PLAYER SETTING	ALIGNMENT POINT	ALIGN FOR	FIG
1	LASER POWER	—	Set the sesor section of the optical power meter on the pickup lens.	Short-circuit pins TEST and turn the power on to enter the test mode. Press the "DISPLAY MODE" key to check that the display is "03".	—	On the power from 0.1 to 0.3mW, when the diffraction grating is correctly aligned with the RF level of 1.0Vp-p or more	(a)
2	TRACKING ERROR BALANCE	Test disc Type 4	Connect an oscilloscope as follows. CH1: RF (CN4-1) CH2: TE (CN4-6)	Load disc and set to test mode. Confirm the display is "03".	TE BALANCE VR1	Symmetry between upper and lower or DC=0±0.05V	(c)
3	FOCUS ERROR BALANCE	Test disc Type 4	Connect an oscilloscope as follows. CH1: RF (CN4-1) CH2: TE (CN4-6)	Press the PLAY key. Confirm that the display is "05".	FE BALANCE VR2	Optimum eye pattern	(d)
4	FOCUS GAIN	Test disc Type 4 Apply signal of 1.0kHz, 100mVrms to CN4 pin 2-3.	Connect a LPF to CN4 pin 2-3 to which connect an oscilloscope or AC voltmeters.	Press the PLAY key. Confirm that the display is "05".	FOCUS GAIN VR3	Two VTVMs should read the same value.	(e)
5	TRACKING GAIN	Test disc Type 4 Apply signal of 1.0kHz, 100mVrms to CN4 pin 5-6.	Connect a LPF to CN4 pin 5-6 to which connect an oscilloscope or AC voltmeters.	Press the PLAY key. Confirm that the display is "05".	TRACKING GAIN VR4	Two VTVMs should read the same value.	(e)

(Note) Type 4 disc: SONY YDS-18 Test Disc or equivalent.

LPF: Around 47kohms+390pF or so.

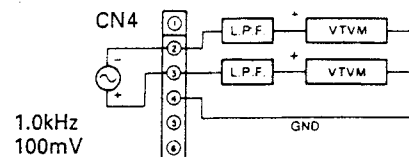
Step 1-5 are in Test Mode.

(a) Laser Power

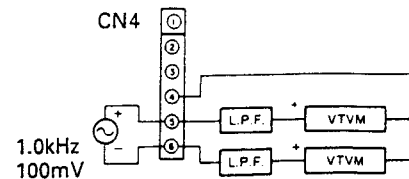


(e) Focus Gain and Tracking Gain Adj.

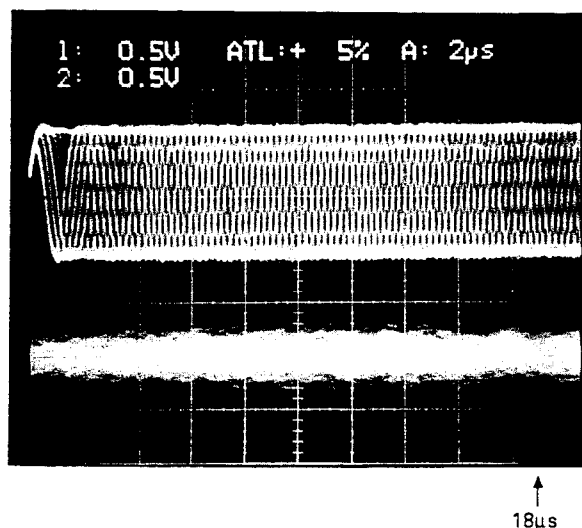
Focus gain Adj.



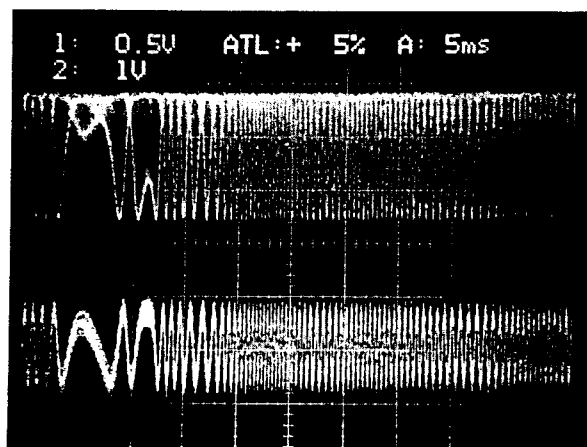
Tracking gain Adj.



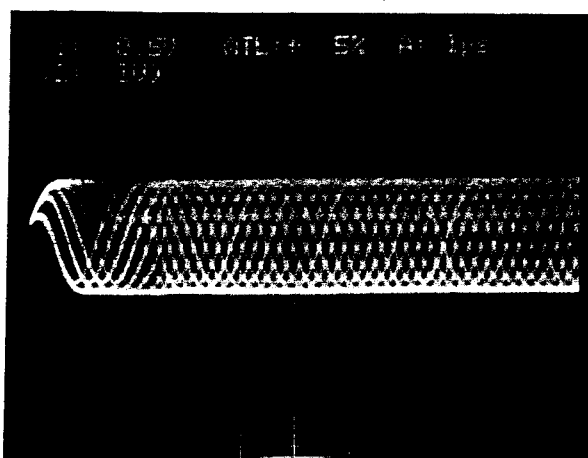
ADJUSTMENT



- RFsignal and E.Spot signal in test mode (PLAY).
- If the diffraction grating has been adjusted properly, the influence of triggering is observed on the E.Spot waveform of approx. 18 μ s after RF signal, in the form of a projection.

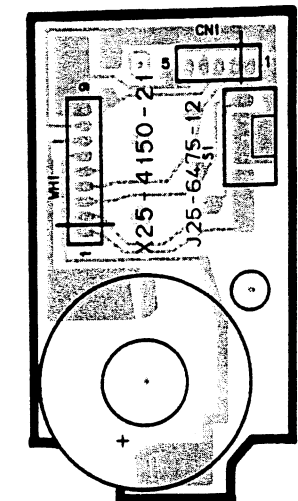
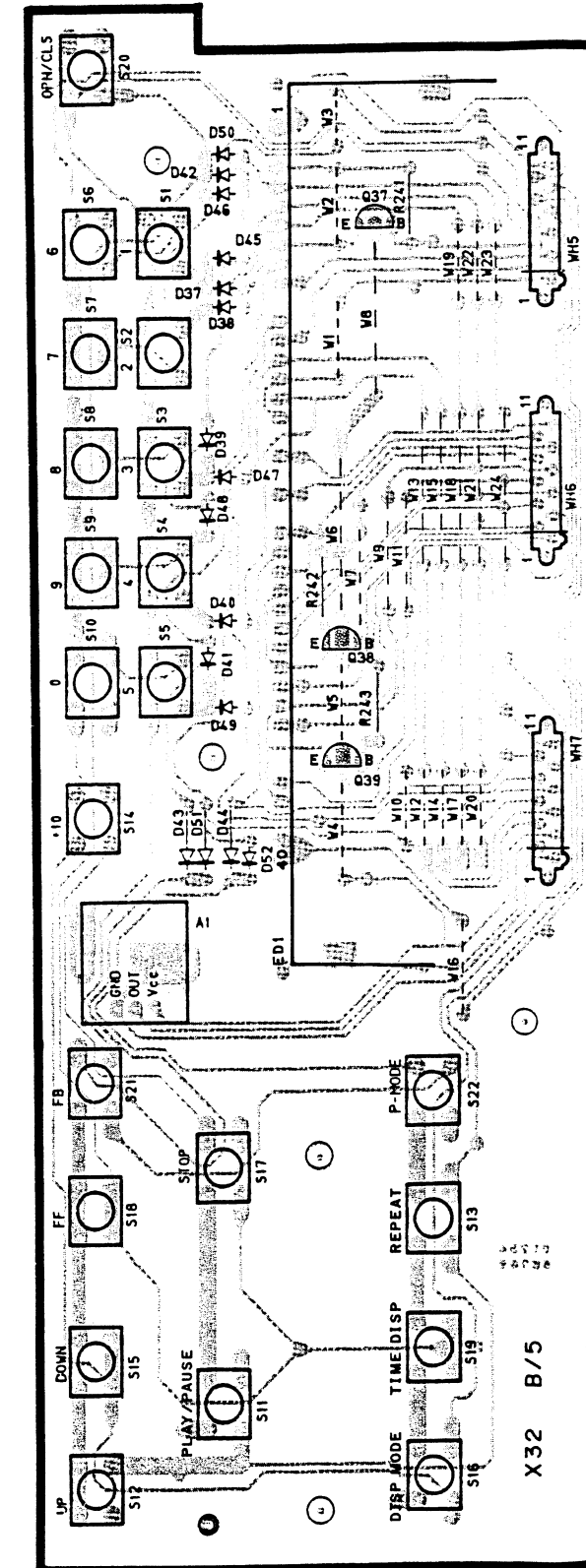


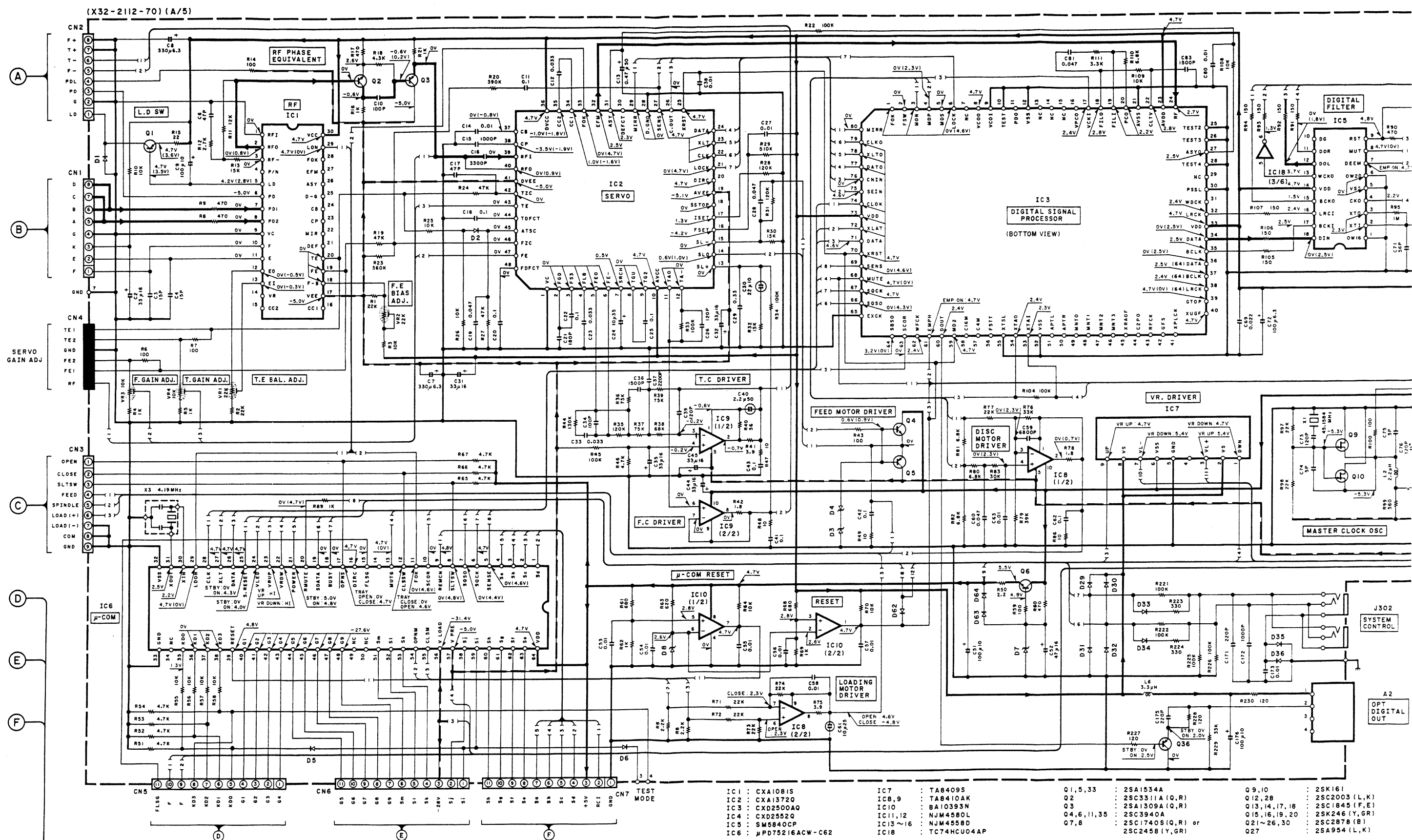
- RF signal and T.Error signal in test mode (Focusing ON). (Disc type 4)
- Adjust T.Error so that the waveform is symmetrical upper and lower or DC 0V. (VR1)

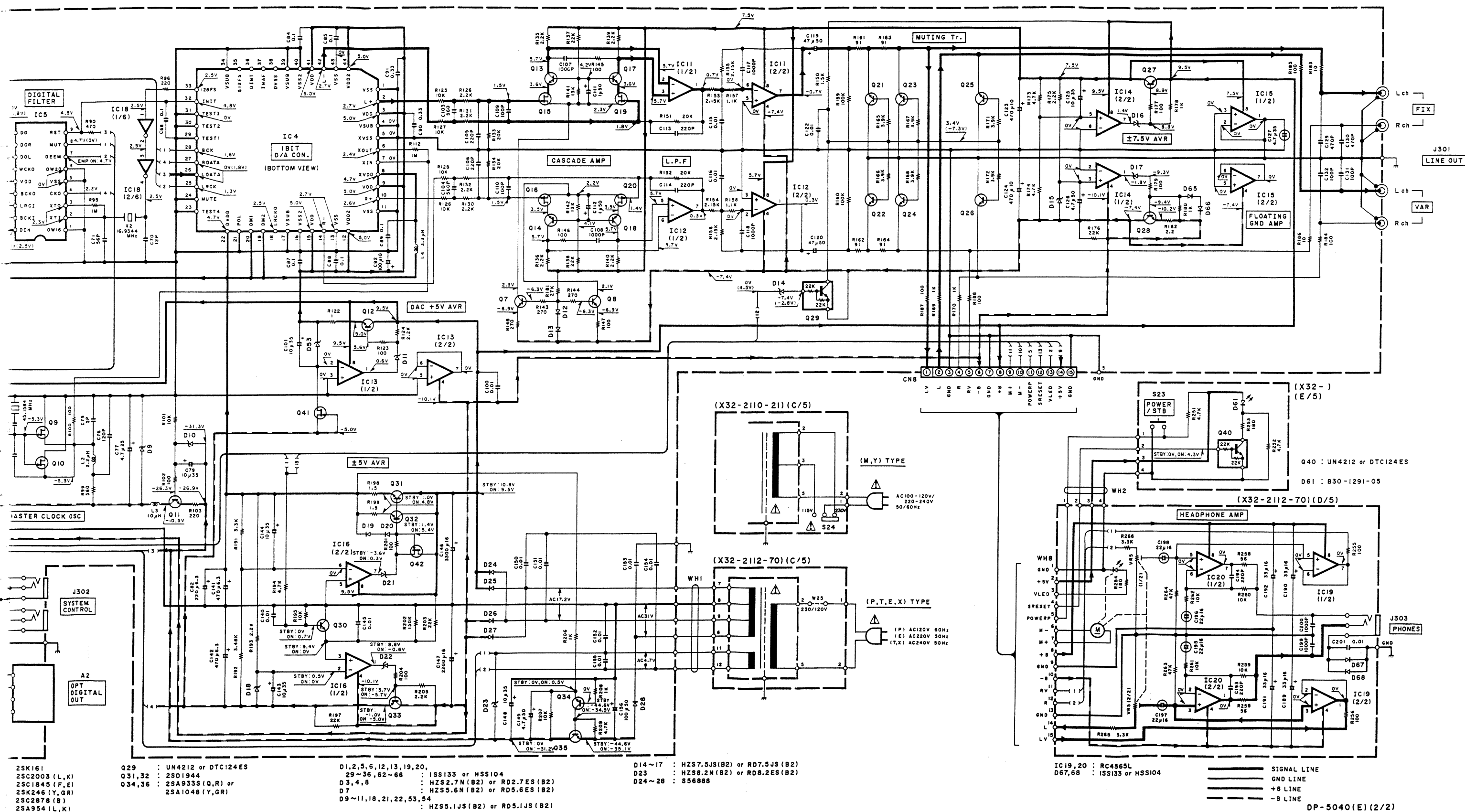


- RF signal in test mode (PLAY).
- Perform the tangential and focusing offset adjustments so that each of the center cross points are focused into one point on the display. The crossing points upper and lower the center shall also be displayed clearly.

PC BOARD (COMPONENT SIDE VIEW)



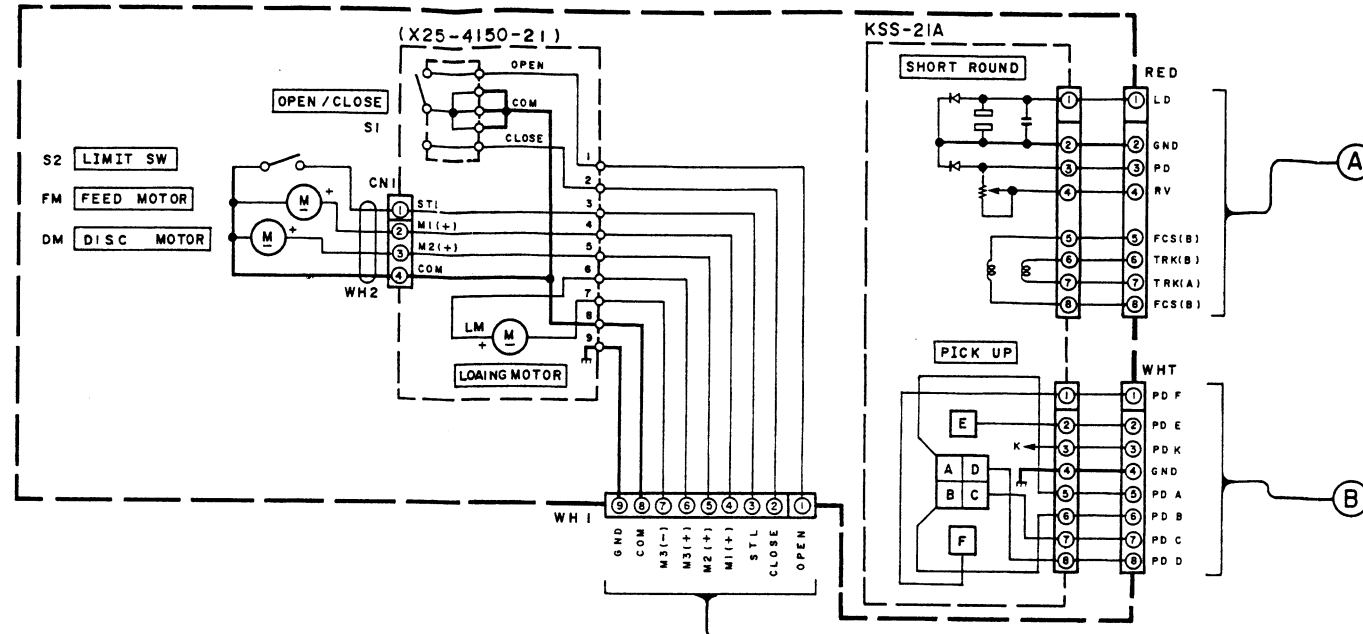




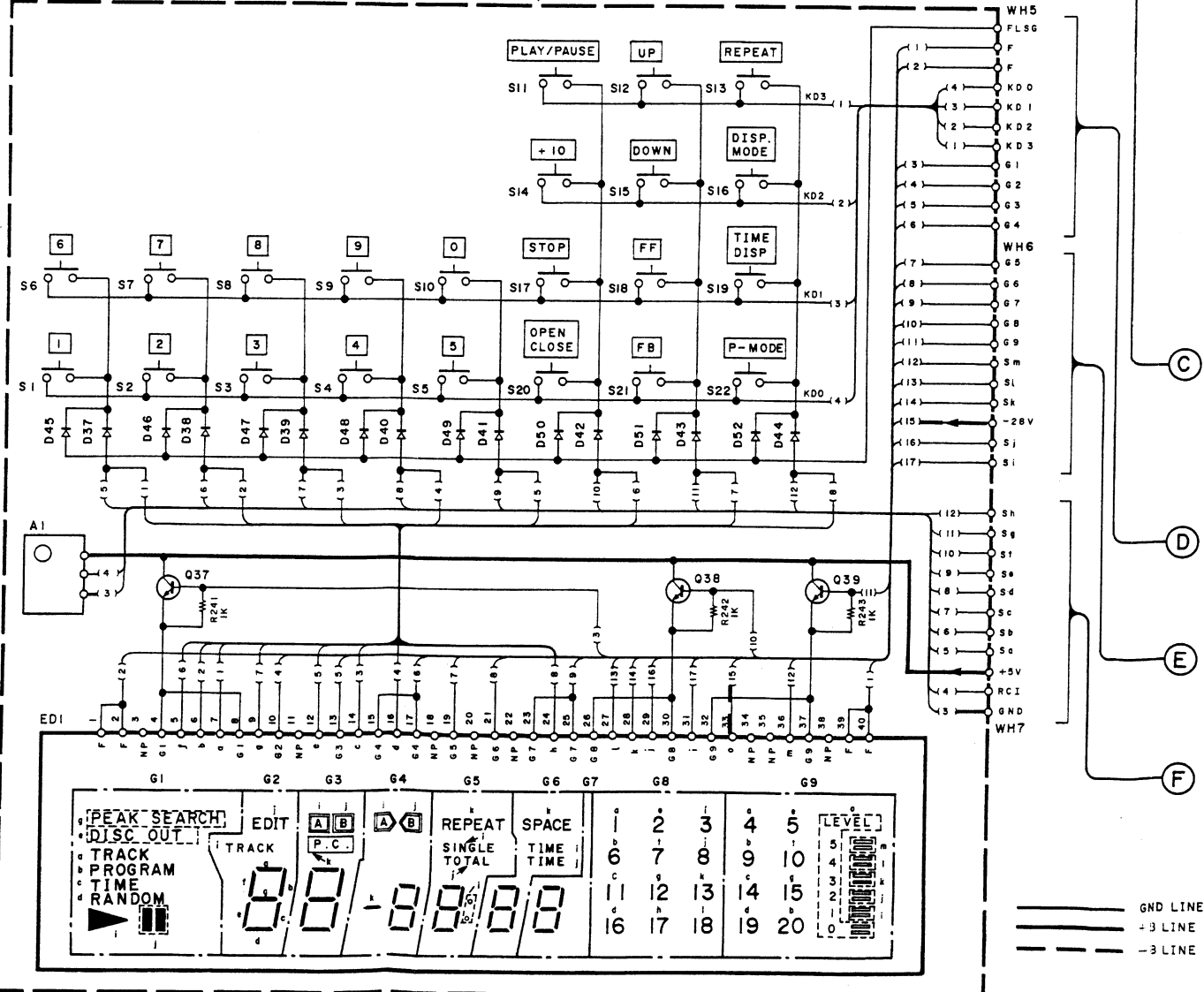
CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

• DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units. DC voltage shows at STOP condition after pressing power sw. () means PLAY condition.

CDM-19
(X92-1600-10)



(X32-2112-70) (B/5) D37-52 : ISS133 or HSS104
Q37-39 : 2SC1740S(Q, R) or 2SC2458(Y, GR)



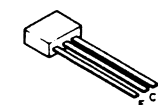
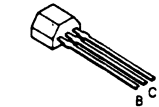
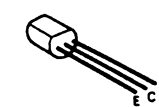
DP-5040 (E) (1/2)

2SA1534A 2SC1845 2SC2878 2SA954 2SC2003 2SC3940A

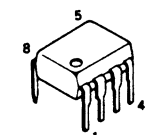
DTC124ES 2SA933S 2SC2458 2SA1048 2SC1740S

2SD1944

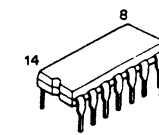
UN4212 2SA1309A 2SC3311A



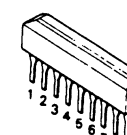
NJM4558D



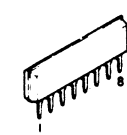
TC74HCU04AP



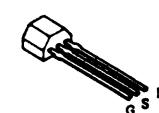
TA8409S



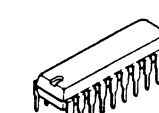
2SK246



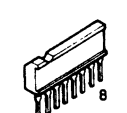
2SK161



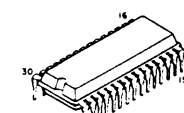
SM5840CP



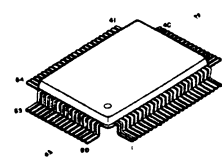
BA10393N



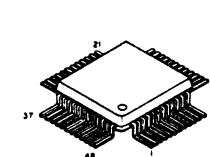
CXA1081S



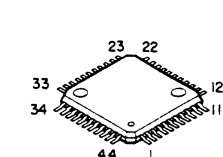
CXD2500AQ



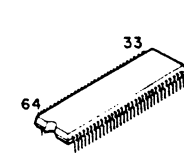
CXA1372Q



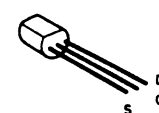
CXD2552Q



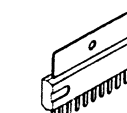
μPD75216ACW-C62



RC4565L



TA8410AK



- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units. DC voltage shows at STOP condition after pressing power sw. () means PLAY condition.

CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

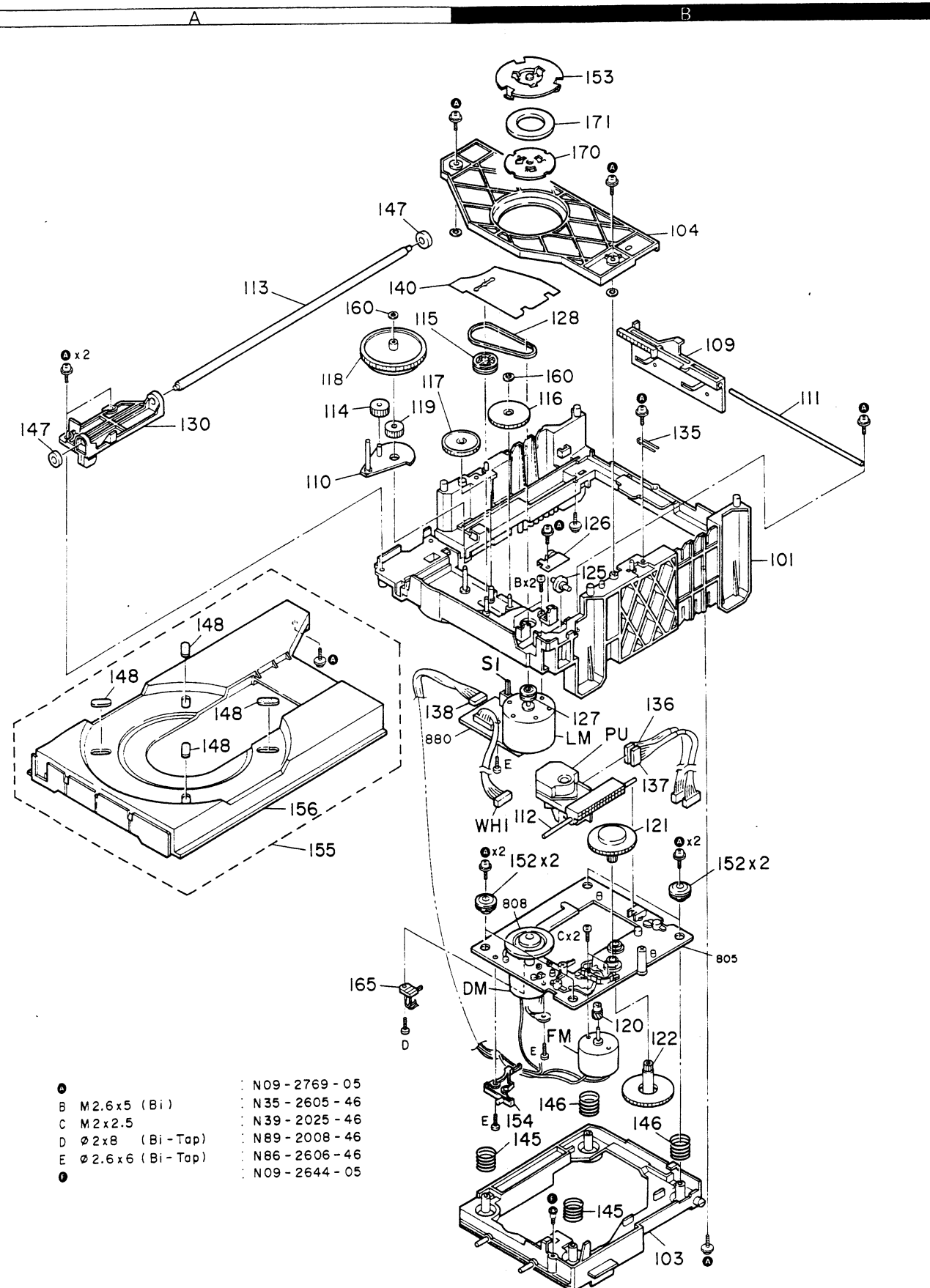
DP-5040
KENWOOD

Y22-2711-00

DP-5040

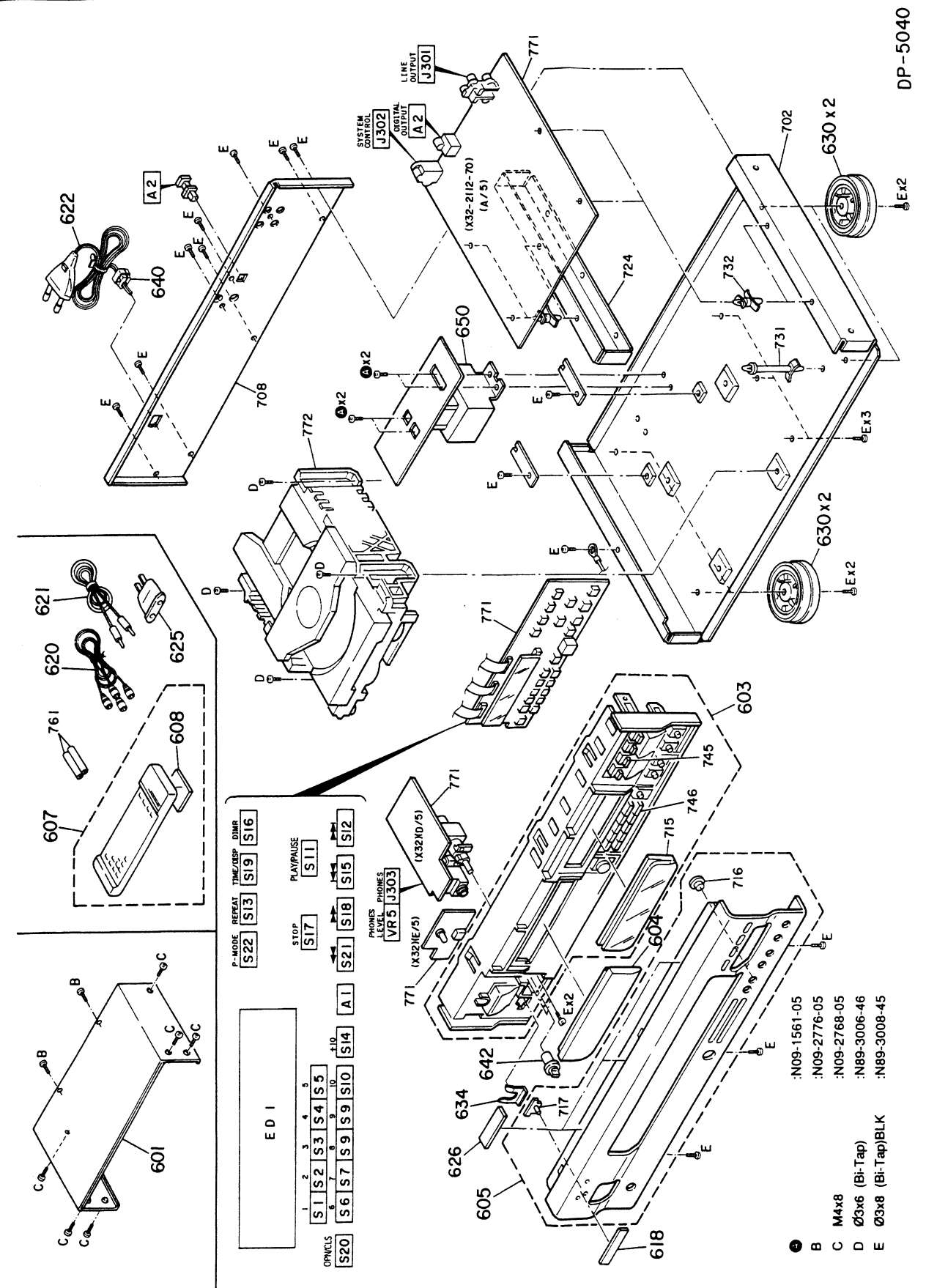
DP-5040

EXPLODED VIEW (MECHANISM)



Parts with the exploded numbers larger than 700 are not supplied.

EXPLODED VIEW (UNIT)



Parts with the exploded numbers larger than 700 are not supplied.

2

1

* New Parts
 Parts without Parts No. are not supplied.
 Les articles non mentionnés dans le Parts No. ne sont pas fournis.
 Teile ohne Parts No. werden nicht geliefert.

27

1
New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnés dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
DP-5040					
601	1C	A01-1514-02	METALLIC CABINET		
603	2D	A22-1525-02	SUB PANEL ASSY		
604	2C	A29-0198-13	PANEL (TRAY)		
605	2C	A60-0148-02	PANEL ASSY		
607	1D	A70-0568-05	REMOTE CONTROLLER ASSY		
608	1D	A09-0078-08	BATTERY COVER		
618	2C	B43-0287-04	KENWOOD BADGE		
-	-	B46-0094-03	WARRANTY CARD	Y	
-	-	B46-0095-03	WARRANTY CARD	Y	
-	-	B46-0096-23	WARRANTY CARD	Y	
-	-	B46-0121-13	WARRANTY CARD	Y	
-	-	B46-0122-23	WARRANTY CARD	Y	
-	-	B46-0143-13	WARRANTY CARD	Y	
-	-	B60-0637-00	INSTRUCTION MANUAL (ENGLISH)	PE	
-	-	B60-0638-00	INSTRUCTION MANUAL (FRENCH)	PE	
-	-	B60-0639-00	INSTRUCTION MANUAL (G.D.I.)	PE	
-	-	B60-0679-00	INSTRUCTION MANUAL (CHINESE)	M	
-	-	B60-0702-00	INSTRUCTION MANUAL (SPANISH)	M	
620	1D	E30-0505-05	AUDIO CORD (AUDIO)		
621	1D	E30-0977-05	CORD WITH PLUG (SYSTEM)		
622	1E	E30-2273-05	AC POWER CORD	Y	
622	1E	E30-2275-05	AC POWER CORD	X	
622	1E	E30-2276-05	AC POWER CORD	T	
622	1E	E30-2277-05	AC POWER CORD	M	
622	1E	E30-2423-05	AC POWER CORD	ME	
625	1D	E03-0115-05	AC PLUG ADAPTER	P	
626	1C	G11-0155-14	SOFT TAPE (40X9X2)	M	
-	-	H10-5248-02	POLYSTYRENE FOAMED FIXTURE		
-	-	H10-5249-02	POLYSTYRENE FOAMED FIXTURE		
-	-	H20-0554-04	PROTECTION COVER	M	
-	-	H25-0232-04	PROTECTION BAG (235X350X0.03)	PYMX	
-	-	H25-0289-04	PROTECTION BAG (850X400X0.05)	PYX	
-	-	H25-0651-04	PROTECTION BAG (0232)	T	
-	-	H25-0665-04	PROTECTION BAG (0289)	T	
-	-	H50-0178-04	ITEM CARTON CASE	PYXTE	
-	-	H50-0258-04	ITEM CARTON CASE	M	
630	2D, 2E	J02-1002-05	FOOT		
634	1C	J21-3324-05	JACK MOUNTING HARDWARE		
640	1E	J42-0083-05	POWER CORD BUSHING		
-	-	J11-0163-05	WIRE CLAMPER		
642	2C	K29-4031-04	KN08 (PHONES)		
650	1E	L07-0172-05	POWER TRANSFORMER	P	
650	1E	L07-0173-05	POWER TRANSFORMER	XTE	
650	1E	L07-0174-05	POWER TRANSFORMER	YM	
MECHANISM PCB (X25-4150-21)					
S1		S33-2062-05	LEVER SWITCH (OPEN/CLOSE)		
CONTROL (X32-2112-70)					
D61		B30-1291-05	LED		

L:Scandinavia K:USA P:Canada
Y:PX(Far East, Hawaii) T:England E:Europe
Y:AFES(Europe) X:Australia M:Other Areas
A indicates safety critical components

3
New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnés dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
C79		CE04LW1V100MCC	ELECTR0		
C80		CK45FF1H103Z	CERAMIC		
C81		CF92FV1H470J	MF		
C82		CF92FV1H470J	ELECTR0		
C83		CF92FV1H152J	MF		
C84		CF92FV1H104J	MF		
C85		CF92FV1H104J	MF		
C87		CF92FV1H104J	MF		
C89		CF92FV1H104J	MF		
C90		CF92FV1H104J	MF		
C91		CF92FV1H104J	MF		
C92		CF92FV1H104J	MF		
C93		CF92FV1H104J	MF		
C94		CF92FV1H104J	MF		
C95		CF92FV1H104J	MF		
C96		CF92FV1H104J	MF		
C97		CF92FV1H104J	MF		
C98		CF92FV1H104J	MF		
C99		CF92FV1H104J	MF		
C100		CF92FV1H104J	MF		
C101		CE04LW1V100MCC	ELECTR0		
C103		CF92FV1H104J	MF		
C105		CF92FV1H104J	MF		
C107		CF92FV1H104J	MF		
C109		CF92FV1H104J	MF		
C111		CE04LW1H10MCC	ELECTR0		
C113		CF92FV1H104J	MF		
C115		CF92FV1H104J	MF		
C117		CF92FV1H104J	MF		
C119		CE04LW1H10MCC	ELECTR0		
C123		CE04LW1A17MCC	ELECTR0		
C125		CE04LW1V100MCC	ELECTR0		
C126		CE04LW1H10MCC	ELECTR0		
C127		CE04LW1H10MCC	ELECTR0		
C129		CE04LW1H10MCC	ELECTR0		
C131		CF92FV1H104J	MF		
C133		CF92FV1H104J	MF		
C140		CF92FV1H104J	MF		
C141		CF92FV1H104J	MF		
C143		CF92FV1H104J	MF		
C145		CF92FV1H104J	MF		
C146		CE04LW1C33MCC	ELECTR0		
C147		CE04LW1C33MCC	ELECTR0		
C148		CE04LW1V100MCC	ELECTR0		
C149		CE04LW1H10MCC	ELECTR0		
C150-155		CE04LW1H103Z	ELECTR0		
C156		CE04LW1H101MCC	ELECTR0		
C171		CE04LW1H102J	ELECTR0		
C172		CE04LW1H102J	ELECTR0		
C173		CE04LW1H102J	ELECTR0		
C175		CE04LW1H102J	ELECTR0		
C176		CE04LW1A10MCC	ELECTR0		
C189-192		CE04LW1C33MCC	ELECTR0		
C193		CE04LW1H102J	ELECTR0		
C195-198		CE04LW1C220MCC	ELECTR0		
C199, 200		CE04LW1H102J	ELECTR0		
C201		CE04LW1H103Z	ELECTR0		
J301	1E	B13-1404-05	PHONE JACK (OUTPUT)		
J302	1E	B11-0188-05	PHONE JACK (SYSTEM)		
J303	1C	B11-0199-05	PHONE JACK (HEAD PHONES)		
-	-	J19-3196-04	HOLDER		
L2		L40-2291-17	SMALL FIXED INDUCTOR		
L3		L40-1001-17	SMALL FIXED INDUCTOR		
L4		L40-3391-17	SMALL FIXED INDUCTOR		

L:Scandinavia K:USA P:Canada
Y:PX(Far East, Hawaii) T:England E:Europe
Y:AFES(Europe) X:Australia M:Other Areas
A indicates safety critical components

2
New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnés dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
C2		CE04LW1C33MCC	ELECTR0		
C3		CE04LW1H104J	CERAMIC		
C4		CE04LW1H104J	CERAMIC		
C6		CE04LW1H104J	CERAMIC		
C7		CE04LW1H104J	CERAMIC		
C8		CE04LW1H104J	CERAMIC		
C9		CE04LW1H104J	CERAMIC		
C10		CE04LW1H104J	CERAMIC		
C11		CE04LW1H104J	CERAMIC		
C12		CE04LW1H104J	CERAMIC		
C13		CE04LW1H104J	CERAMIC		
C14		CE04LW1H104J	CERAMIC		
C15		CE04LW1H104J	CERAMIC		
C16		CE04LW1H104J	CERAMIC		
C17		CE04LW1H104J	CERAMIC		
C18		CE04LW1H104J	CERAMIC		
C19		CE04LW1H104J	CERAMIC		
C20		CE04LW1H104J	CERAMIC		
C21		CE04LW1H104J	CERAMIC		
C22		CE04LW1H104J	CERAMIC		
C23		CE04LW1H104J	CERAMIC		
C24		CE04LW1H104J	CERAMIC		
C25		CE04LW1H104J	CERAMIC		
C26		CE04LW1H104J	CERAMIC		
C27		CE04LW1H104J	CERAMIC		
C28		CE04LW1H104J	CERAMIC		
C29		CE04LW1H104J	CERAMIC		
C30		CE04LW1H104J	CERAMIC		
C31		CE04LW1H104J	CERAMIC		
C32		CE04LW1H104J	CERAMIC		
C33		CE04LW1H104J	CERAMIC		
C34		CE04LW1H104J	CERAMIC		
C35		CE04LW1H104J	CERAMIC		
C36		CE04LW1H104J	CERAMIC		
C37		CE04LW1H104J	CERAMIC		
C38		CE04LW1H104J	CERAMIC		
C39		CE04LW1H104J	CERAMIC		
C40		CE04LW1H104J	CERAMIC		
C41		CE04LW1H104J	CERAMIC		
C42		CE04LW1H104J	CERAMIC		
C43		CE04LW1H104J	CERAMIC		
C44		CE04LW1H104J	CERAMIC		
C45		CE04LW1H104J	CERAMIC		
C46		CE04LW1H104J	CERAMIC		
C47		CE04LW1H104J	CERAMIC		
C48		CE04LW1H104J	CERAMIC		
C49		CE04LW1H104J	CERAMIC		
C50		CE04LW1H104J	CERAMIC		
C51		CE04LW1H104J	CERAMIC		
C52		CE04LW1H104J	CERAMIC		
C53		CE04LW1H104J	CERAMIC		
C54		CE04LW1H104J	CERAMIC		
C55		CE04LW1H104J	CERAMIC		
C56		CE04LW1H104J	CERAMIC		
C57		CE04LW1H104J	CERAMIC		
C58		CE04LW1H104J	CERAMIC		
C59		CE04LW1H104J	CERAMIC		
C60		CE04LW1H104J	CERAMIC		
C61		CE04LW1H104J	CERAMIC		
C62		CE04LW1H104J	CERAMIC		
C63		CE04LW1H104J	CERAMIC		
C64		CE04LW1H104J	CERAMIC		
C65		CE04LW1H104J	CERAMIC		
C66		CE04LW1H104J	CERAMIC		
C67		CE04LW1H104J	CERAMIC		
C68		CE04LW1H104J	CERAMIC		
C69		CE04LW1H104J	CERAMIC		
C70		CE04LW1H104J	CERAMIC		
C71		CE04LW1H104J	CERAMIC		
C72		CE04LW1H104J	CERAMIC		
C73		CE04LW1H104J	CERAMIC		
C74		CE04LW1H104J	CERAMIC		
C75		CE04LW1H104J	CERAMIC		
C76		CE04LW1H104J	CERAMIC		
C77		CE04LW1H104J	CERAMIC		
C78		CE04LW1H104J	CERAMIC		

L:Scandinavia K:USA P:Canada
Y:PX(Far East, Hawaii) T:England E:Europe
Y:AFES(Europe) X:Australia M:Other Areas
A indicates safety critical components

4
New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnés dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
L6		*	L40-3391-17	SMALL FIXED INDUCTOR		
X1			L77-2105-05	CRYSTAL RESONATOR (45.1584MHZ)		
X2			L77-1187-05	CRYSTAL RESONATOR (16.9344MHZ)		
X3			L78-0267-05	RESONATOR (4.19MHZ)		
R153-156			RN14BK2C2151F	RN 2.15K F 1/6W		
R157, 158			RN14BK2C1101F	RN 1.10K F 1/6W		
R192			RN14BK2C3481F	RN 3.48K F 1/6W		
VR1, 2			R12-3686-05	TRIMMING POT. (22K)		
VR3, 4			R12-3685-05	TRIMMING POT. (10K)		
VRS	1C		R29-1006-05	POTENTIOMETER PHONES LEVEL		
S1	1C, 1D		S40-1064-05	PUSH SWITCH		YM
S24			S31-2131-05	SLIDE SWITCH (POWER TYPE)		
D1			HSS104	DIODE		
D1, 2			HSS133	DIODE		
D3, 4			HZS2.7N(B2)	ZENER DIODE		
D3, 4			R02.7ES(B2)	ZENER DIODE		
D5, 6			HSS104	DIODE		
D5, 6			1SS133	DIODE		
D7			HZS5.6N(B2)	ZENER DIODE		
D7			R05.6ES(B2)	ZENER DIODE		
D8			HZS2.7N(B2)	ZENER DIODE		
D8			R02.7ES(B2)	ZENER DIODE		
D9 - 11			HZS5.1S(B2)	ZENER DIODE		
D9 - 11			R05.1JS(B2)	ZENER DIODE		
D12, 13			HSS104	DIODE		
D12, 13			1SS133	DIODE		
D15 - 17			HZS7.5S(B2)	ZENER DIODE		
D15 - 17			R07.5JS(B2)	ZENER DIODE		
D18			HZS5.1S(B2)	ZENER DIODE		
D18			R05.1JS(B2)	ZENER DIODE		
D19, 20			HSS104	DIODE		
D19, 20			1SS133	DIODE		
D21, 22			HZS5.1S(B2)	ZENER DIODE		
D21, 22			R05.1JS(B2)	ZENER DIODE		
D23			HZS6.2S(B2)	ZENER DIODE		
D23			R06.2ES(B2)	ZENER DIODE		
D24 - 28			S36888	DIODE		
D29 - 52			HSS104	DIODE		
D29 - 52			1SS133	DIODE		
D53, 54			HZS5.1S(B2)	ZENER DIODE		
D53, 54			R05.1JS(B2)	ZENER DIODE		
D62 - 68			1SS133	DIODE		
D62 - 68			CF1090C	FLUORESCENT INDICATOR TUBE		
D62 - 68			CXA1081S	IC(RF AMP)		
D62 - 68			CXA1372Q	IC(CD RF SERVØ)		
D62 - 68			ICX02500AQ	IC(SIGNAL PROCESSOR)		
D62 - 68			ICX02552Q	IC(D/A CONVERTER)		
D62 - 68			SM5640CP	IC(DIGITAL FILTER)		
D62 - 68			UP075216ACW-C62	IC(MICROPROCESSOR)		
D62 - 68			TAB409S	IC(MOTOR CONTROL)		
D62 - 68			TAB410AK	IC(POWER OP AMP)		
D62 - 68			BA10393N	IC(DUAL COMPARATOR)		
IC10						

Parts without Parts No. are not supplied.
Les articles non mentionnés dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新部品	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕	Re- marks 備考
IC11, 12			NJM4580L	IC (OP AMP X2)		
IC13-16			NJM4558D	IC (CMOS INVERTER)		
IC18			TC74HC004AP	IC (CMOS AMP)		
IC19, 20			RC4565C	IC (OP AMP)		
Q1			2SA1534A	TRANSISTOR		
Q2			2SC3311A (Q,R)	TRANSISTOR		
Q3			2SA1309A (Q,R)	TRANSISTOR		
Q4			2SC3940A	TRANSISTOR		
Q5			2SA1534A	TRANSISTOR		
Q6			2SC3940A	TRANSISTOR		
Q7 , 8			2SC1740S (Q,R)	TRANSISTOR		
Q7 , 8			2SC2458 (Y, GR)	TRANSISTOR		
Q9 , 10			2SK161	FET		
Q11			2SC3940A	TRANSISTOR		
Q12			2SC2003 (L, K)	TRANSISTOR		
Q13 , 14			2SC1845 (F, E)	TRANSISTOR		
Q15 , 16			2SK246 (Y, GR)	FET		
Q17 , 18			2SC1845 (F, E)	TRANSISTOR		
Q19 , 20			2SK246 (Y, GR)	FET		
Q21 -26			2SC2878 (B)	TRANSISTOR		
Q27			2SA954 (L, K)	TRANSISTOR		
Q28			2SC2003 (L, K)	DIGITAL TRANSISTOR		
Q29			DTC124ES	TRANSISTOR		
Q30			UN4212	DIGITAL TRANSISTOR		
Q31 , 32			2SC2878 (B)	TRANSISTOR		
Q33			2SD1944	TRANSISTOR		
Q34			2SA1534A	TRANSISTOR		
Q34			2SA1048 (Y, GR)	TRANSISTOR		
Q34			2SA933S (Q, R)	TRANSISTOR		
Q35			2SC3940A	TRANSISTOR		
Q36			2SA1048 (Y, GR)	TRANSISTOR		
Q37			2SA933S (Q, R)	TRANSISTOR		
Q37 -39			2SC1740S (Q, R)	TRANSISTOR		
Q37 -39			2SC2458 (Y, GR)	TRANSISTOR		
Q40			DTC124ES	DIGITAL TRANSISTOR		
Q40			UN4212	TRANSISTOR		
Q41 , 42			2SK246 (Y, GR)	FET		
A1	1C		W02-0975-05	ELECTRIC CIRCUIT MODULE (REMOTE)		
A2	1E		W02-1036-05	TRANSMITTING ASSY (OPTICAL)		
MECHANISM (X92-1600-10)						
101	2B	*	A10-2798-22	CHASSIS ASSY		
103	3B	*	A11-0695-15	SUB CHASSIS (FRAME)		
104	1B		A11-0686-03	SUB CHASSIS (CLAMP)		
109	1B		D10-2479-03	SLIDER		
110	2A		D10-2481-04	ARM ASSY		
111	1B		D10-2489-04	ROD (SLIDER)		
112	2B	*	D10-2490-04	ROD (DISC UP)		
113	1A	*	D10-2491-04	ROD (RETAINER)		
114	1A		D13-0744-04	GEAR		
115	1A		D13-0779-04	GEAR (PULLEY)		
116	1B		D13-0780-04	GEAR (INTERMEDIATE)		
117	1A		D13-0890-04	GEAR (IDLER)		
118	1A		D13-0891-03	GEAR (MAIN)		

L:Scandinavia
Y:PX (Far East, Hawaii)
Y:AAFE (Europe)

K:USA
T:England
X:Australia

P:Canada
E:Europe
M:Other Areas

△ indicates safety critical components.

DP-5040

PARTS LIST

Ref. No. 参照番号	Address 位置	New Parts 新部品	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕	Re- marks 備考
119	1A		D13-0892-04	GEAR		
120	3B		D13-0894-05	GEAR (FM)		
121	2B		D13-0895-05	GEAR (INTERMEDIATE)		
122	3B		D13-0896-05	GEAR (FEED)		
125	2B		D14-0324-04	ROLLER		
126	2B		D14-0325-04	ROLLER ASSY		
127	2B		D15-0295-04	MOTOR PULLEY		
128	1B		D16-0309-03	BELT		
130	1A	*	D23-0267-03	RETAINER		
135	1B		E23-0343-04	TERMINAL		
136	2B		E35-0282-05	WIRING HARNESS		
137	2B		E35-0286-05	WIRING HARNESS		
138	2A	*	E31-7868-15	WIRING HARNESS (SP)		
140	1A	*	F19-1027-04	BLIND PLATE		
145	3B	*	G01-3326-14	COMPRESSION SPRING (FRONT)		
146	3B	*	G01-3327-14	COMPRESSION SPRING (REAR)		
147	1A	*	G11-2038-04	CUSHION		
148	2A	*	G16-0766-04	SHEET		
152	2B	*	J02-1058-15	INSULATOR		
153	1B		J11-0168-03	CLAMPER		
154	3B		J19-3335-05	BRACKET		
155	2A	*	J99-0088-13	TRAY ASSY		
156	2A	*	J99-0089-01	TRAY		
160	1A, 1B		N19-0366-04	FLAT WASHER		
165	3A		S33-1022-05	LEVER SWITCH		
170	1B		T50-1055-04	YÖKE		
171	1B		T99-0503-15	MAGNET		
DM	3B		A11-0733-05	SUB CHASSIS ASSY		
FM	3B		T42-0532-05	DC MOTOR (FEED)		
LM	2B		T42-0530-05	DC MOTOR (LOADING)		
PU	2B		T25-0011-05	OPTICAL PICKUP HEAD		

L:Scandinavia
Y:PX (Far East, Hawaii)
Y:AAFE (Europe)

K:USA
T:England
X:Australia

P:Canada
E:Europe
M:Other Areas

△ indicates safety critical components.

DP-5040

SPECIFICATIONS

[Format]

System Compact disc digital audio system
Laser Semiconductor laser
Number of channels 2 channels
Playing rotation 200rpm~500rpm (CLV)

[D/A convertors]

D/A conversion 1bit
Over sampling 8fs (352.8kHz)

[Audio]

Frequency response 2Hz~20kHz
Signal to noise ratio More than 110dB
Dynamic range More than 97dB
Total harmonic distortion
..... Less than 0.0025% (at 1kHz)

Channel separation More than 103dB (at 1kHz)
Wow & Flutter Unmeasurable Limit
Output level / Impedance
Fixed 2V / 1k Ω
Variable 0~2V / 2k Ω
Digital output
Optical
..... -15dBm~-21dBm (Wave length 660nm)
Headphone output 20mW (16 Ω)

[General]

Power consumption 14W
Dimensions W : 440mm (17-5 / 16")
H : 118mm (4-5 / 8")
D : 314mm (12-3 / 8")
Weight (Net) 4.2kg (90.2lb)

Note:

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice

Note :

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

KENWOOD CORPORATION

Shionogi Shibuya Building, 17-5, 2-chome Shibuya, Shibuya-ku, Tokyo 150, Japan

KENWOOD U.S.A. CORPORATION

2201 East Dominguez Street, Long Beach, CA 90810;

550 Clark Drive, Mount Olive, NJ 07828, U.S.A.

KENWOOD ELECTRONICS CANADA INC.

6070 Kestrel Road, Mississauga, Ontario, Canada L5T 1S8

TRIO-KENWOOD U.K. LTD.

KENWOOD HOUSE, Dwight Road, Watford, Herts., WD1 8EB United Kingdom

KENWOOD ELECTRONICS BENELUX N.V.

Mecheisesteinweg 416 B-1930 Zaventem, Belgium

KENWOOD ELECTRONICS DEUTSCHLAND GMBH

Rembrucker-Str. 15, 6056 Heusenstamm, Germany

TRIO-KENWOOD FRANCE S.A.

13 Boulevard Ney, 75018 Paris, France

KENWOOD LINEAR S.p.A.

20125, MILANO-VIA ARBE, 50, ITALY

KENWOOD ELECTRONICS AUSTRALIA PTY. LTD. (INCORPORATED IN N.S.W.)

P.O. BOX 504, 8 FIGTREE DRIVE, AUSTRALIA CENTRE, HOMEBUSH, N.S.W. 2140, AUSTRALIA

KENWOOD & LEE ELECTRONICS, LTD.

Vwang Kee Building, 4th Floor, 34-37, Connaught Road, Central, Hong Kong