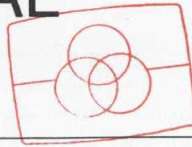


MINI DISC RECORDER DM-E9 SERVICE MANUAL

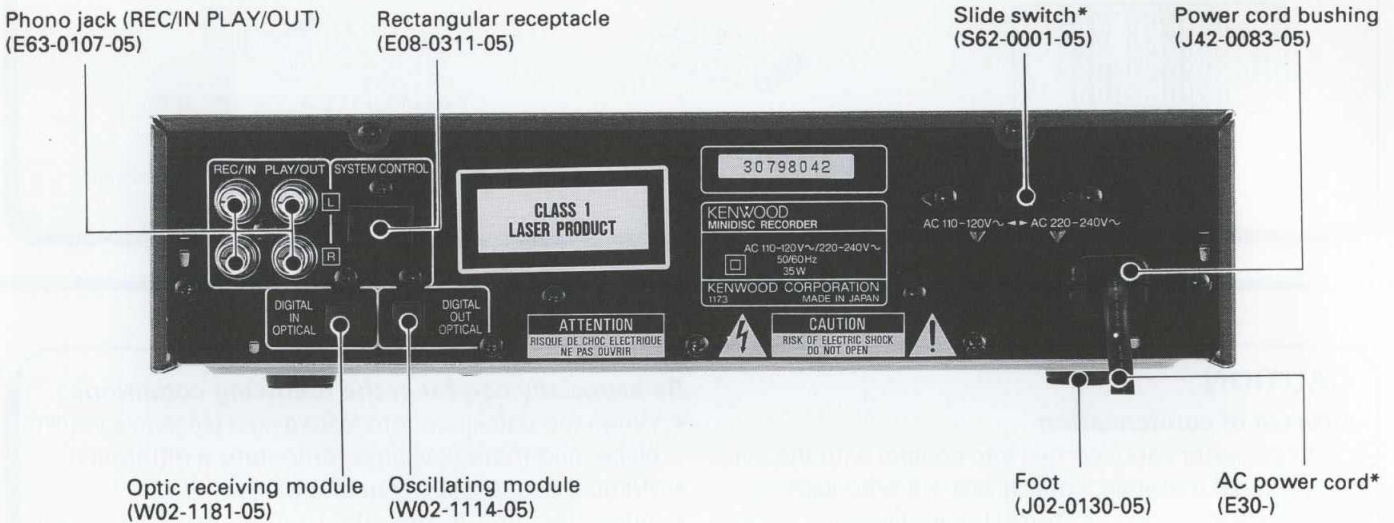
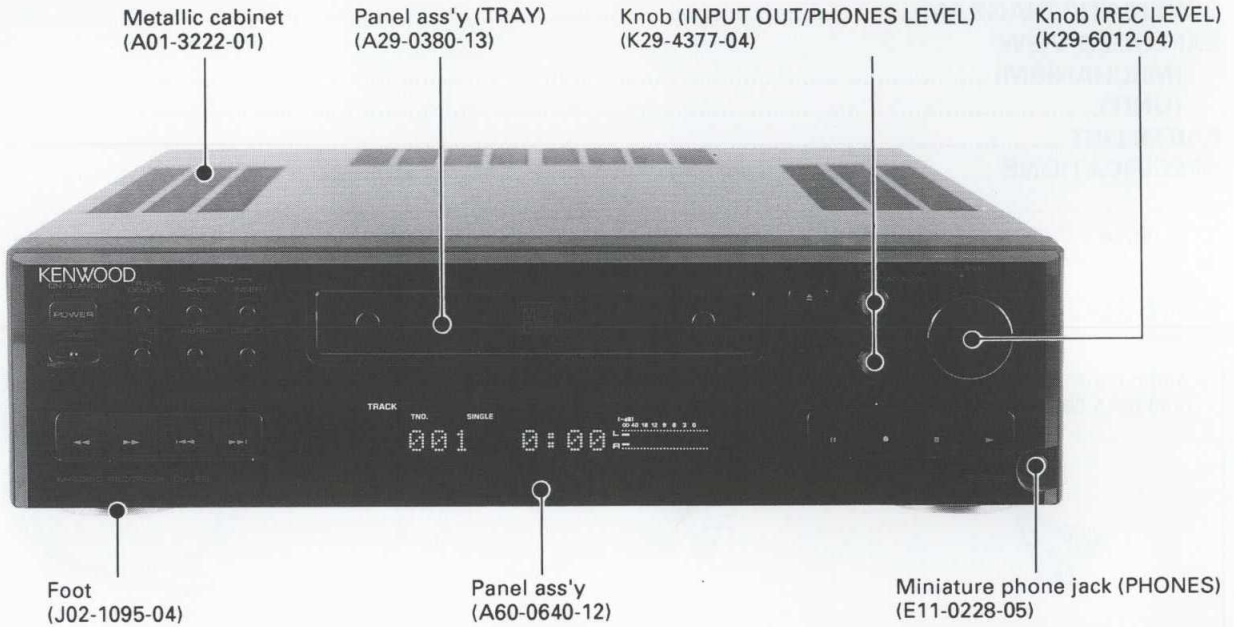
KENWOOD

Free service manuals
Gratis schema's

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B51-4987-00(K)4129



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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.

***Refer to parts list on page 33.**

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DM-E9

CONTENTS/ACCESSORIES

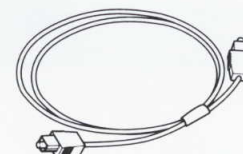
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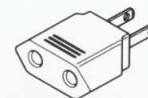
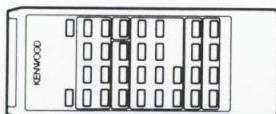
Note : Please refer to DM-B9/1001 Service Manual (B51-4879-00) if you want to know circuit description.

ACCESSORIES

- | | | |
|---------------------------------------|--|--|
| • Audio cord 2
(E30-0615-05) | • Cord with connector 1
(E30-2628-05) | • Optical fiber 1
(B19-1529-05) |
|---------------------------------------|--|--|



- | | | |
|--|--------------------------------------|--|
| • Remocon ass'y 1
(A70-0938-05 : RC-DMB9) | • Batteries (R03/AAA) 2
(-) | • AC plug adapter 1
(E03-0115-05) |
|--|--------------------------------------|--|



• Battery cover (A09-0160-08)

Except for U.S.A., Canada, U.K., Europe and Australia.

For use with the unit with an European AC plug in areas other than Europe.

CAUTION

Beware of condensation

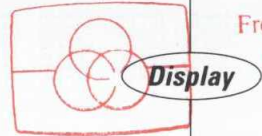
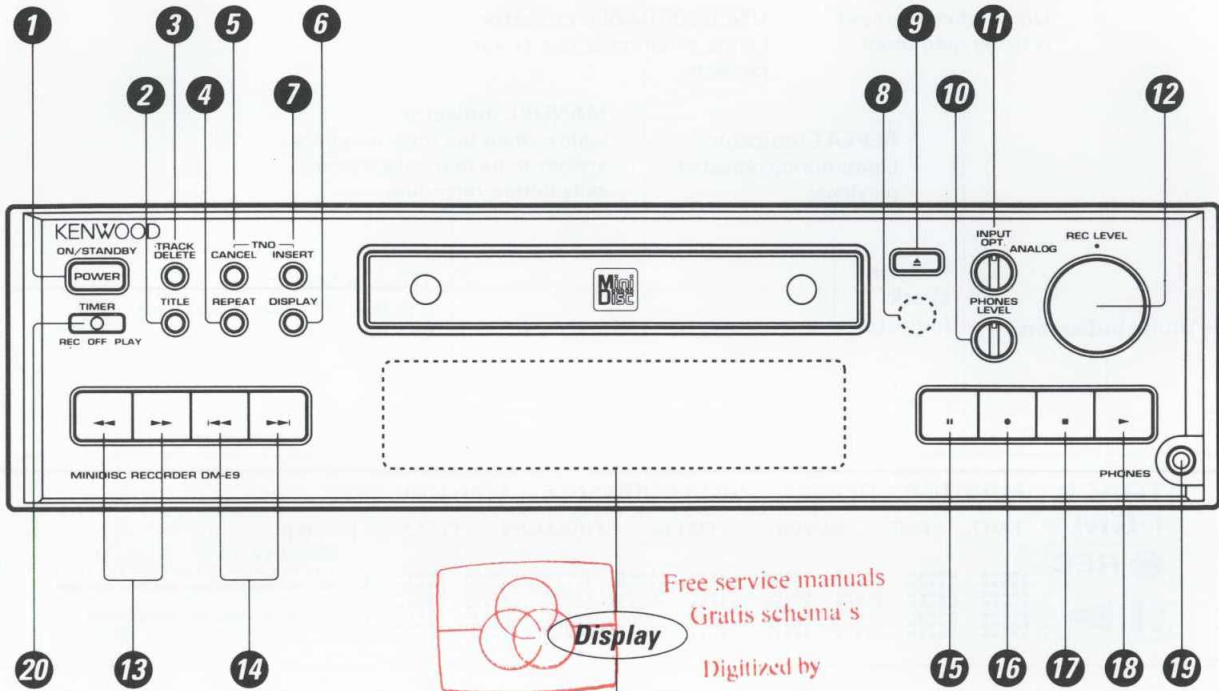
When water vapor comes into contact with the surface of cold material, water drops are produced. If condensation occurs, correct operation may not be possible, or the unit may not function correctly. This is not a malfunction, however, and the unit should be dried.
(To do this, turn the POWER switch ON and leave the unit as it is for several hours.)

Be especially careful in the following conditions :

- When the unit is brought from a cold place to a warm place, and there is a large temperature difference.
- When a heater starts operating.
- When the unit is brought from an air-conditioned place to a place of high temperature with high humidity.
- When there is a large difference between the internal temperature of the unit and the ambient temperature, or in conditions where condensation occurs easily.

CONTROL

PANEL



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Refer to page 4.

- 1 POWER key**
- 2 TITLE key**
Assigns a title to a disc or music track.
- 3 TRACK DELETE key**
Deletes a track.
- 4 REPEAT key**
Activates repeated playback.
- 5 TNO CANCEL key**
Cancels a track number.
- 6 DISPLAY key**
Each press changes the display content.
- 7 TNO INSERT key**
Adds a track number.

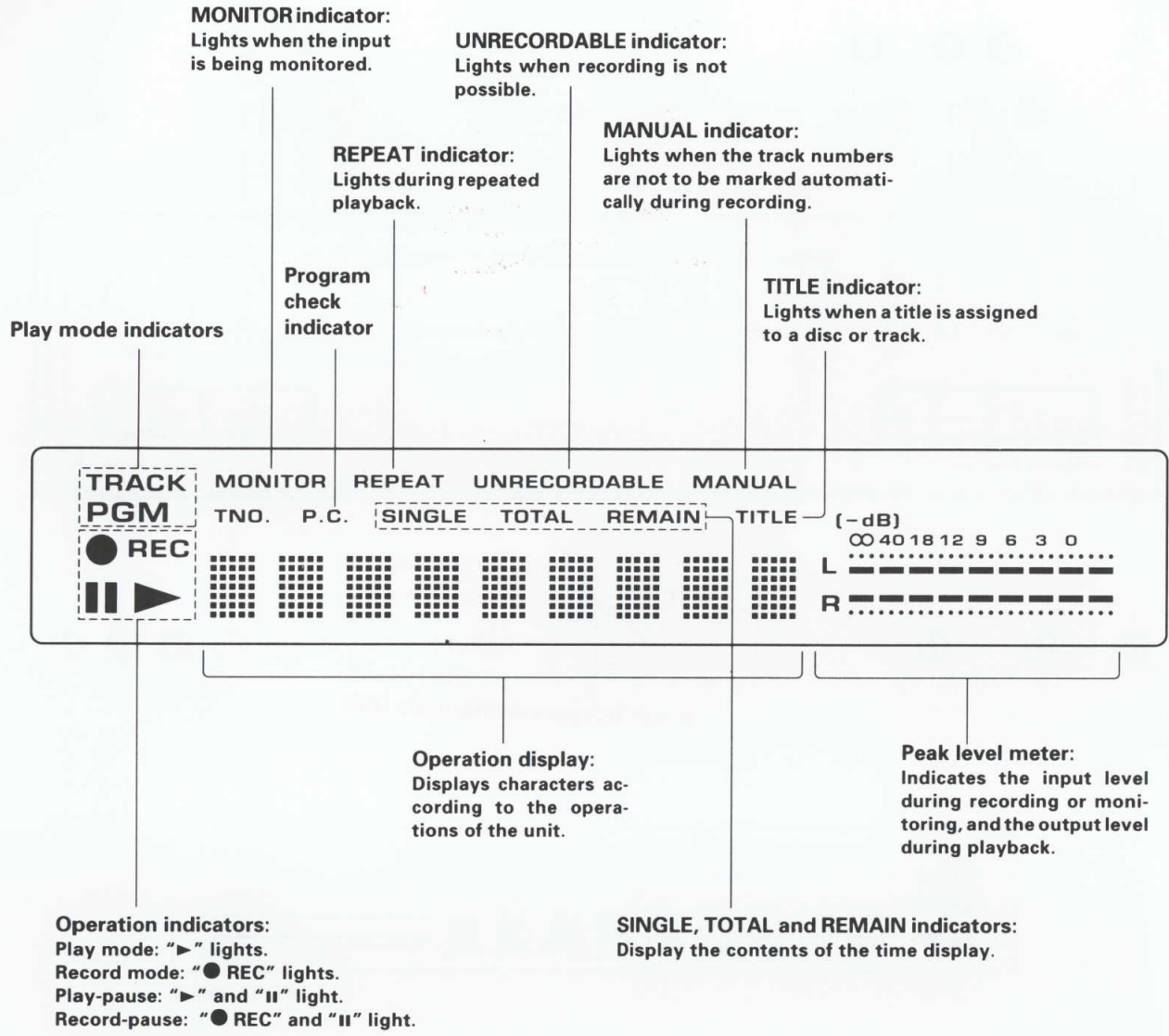
- 8 Remote sensor**
- 9 Tray open/close key**
- 10 PHONES LEVEL control**
Adjusts the sound level of headphones.
- 11 INPUT selector**
Switches the input between Analog and Optical (digital).
- 12 REC LEVEL control**
Adjusts the recording level.
- 13 Search keys**
Fast forward or fast reverse the music.
- 14 Skip keys**
Locates the beginning of a track.

- 15 Pause key**
- 16 Record key**
Press to start recording.
- 17 Stop key**
- 18 Play key**
- 19 PHONES jack**
Plug headphones (with stereo mini-plug) into this jack.
- 20 TIMER switch**

DM-E9

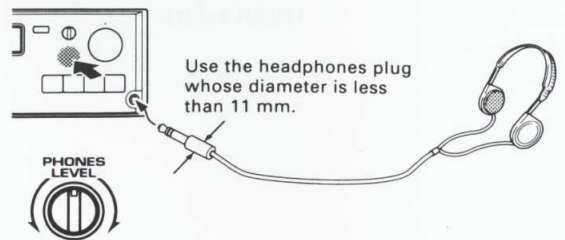
CONTROL

DISPLAY



Listening through headphones

Plug the stereo headphones (with mini-plug) available in audio stores into the PHONES jack and adjust the listening volume with the PHONES LEVEL control on the front panel.



STANDBY mode of POWER switch

When the power cord is plugged into an AC outlet, "STANDBY" is displayed while the power is set to OFF. This is because, even when the power is set to OFF, a small amount of power is supplied to the system. This status is called the standby mode of the system. When "STANDBY" is displayed, the power can also be turned ON/OFF from the remote control unit.



REMOTE CONTROL OPERATION

▲ key
Press to open or close the disc tray.

POWER key
Press to turn the power ON and press again to activate the STAND BY mode.

Title operation keys (in blue letters)
These keys are used as the title operation keys in the title entry mode.
DELETE key:
Deletes the character above the cursor. (Each press shifts the character position by one column toward the left.)
ENTER key:
Enters the title in memory.
▷ key:
Shift the cursor toward the right.
◁ key:
Shift the cursor toward the left.
◀▶ keys:
Changes the track number to which the title is assigned.
△, ▽ keys:
Selects an alphabet character, etc.

Operation keys
● Record key:
Press to start recording.
■ Stop key:
Press to stop recording or playback.
⏸ Pause key:
Press to pause recording or playback temporarily.
▶ Play key:
Press to start playback.
◀▶ Skip keys:
Press to skip tracks.
◀▶ Search keys:
Press to move the position being played in a track at a high speed in the forward or reverse direction.

Editing operation keys
TRACK DELETE key:
Deletes a track.
TNO CANCEL key:
Cancels a track number.
TNO INSERT key:
Inserts a track number.

TITLE key
Press to activate the title entry mode.

Programming keys
PROGRAM key:
Enters the specified track number in the program.
CHECK key:
Checks the program contents.
CLEAR key:
Clears the program.

Numeric keys
In the TRACK or PROGRAM play mode, press to specify the desired track number.

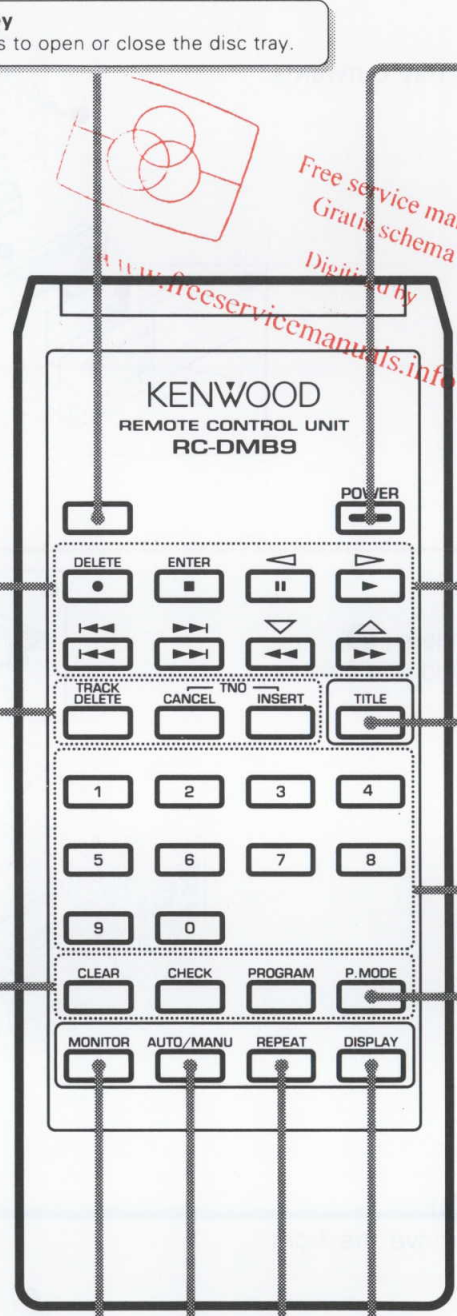
MONITOR key
Outputs the signal of the source selected with the input selector keys.

P.MODE (Play mode) key
Press to activate the PROGRAM mode and press again to activate the TRACK mode.

AUTO/MANUAL key
Selects whether the track numbers are to be marked automatically during recording (AUTO) or to be marked manually after it (MANUAL).

DISPLAY key
Each press changes the display contents.

REPEAT key
Press to activate repeated playback.



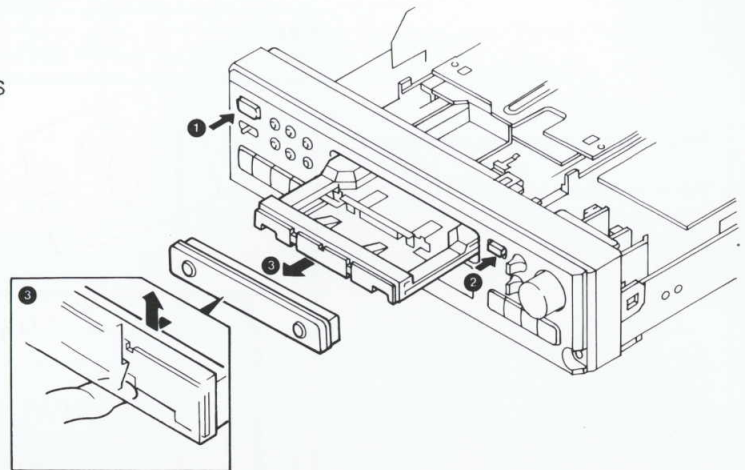
Model: RC-DMB9
Infrared ray system

DM-E9

DISASSEMBLY FOR REPAIR

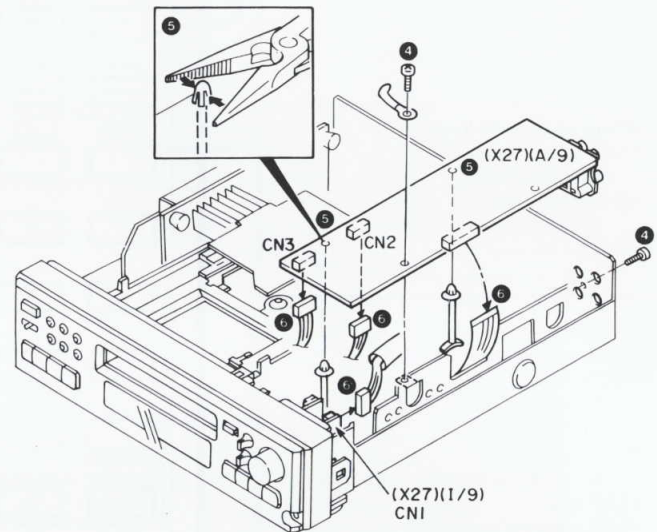
Removing the Tray Panel

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



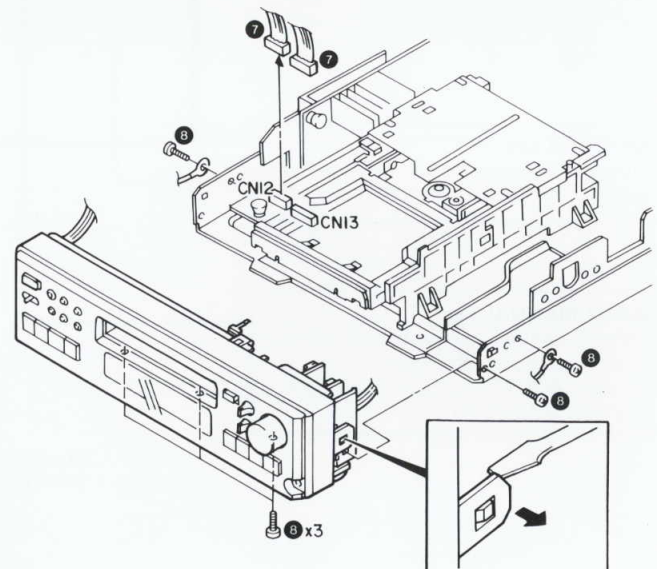
Removing the PCB (X27- A/9)

4. Remove the two screws (4).
5. Remove the PCB from two unit holders (5).
6. Disconnect the three connectors and one flexible cable (6).



Removing the Front Panel

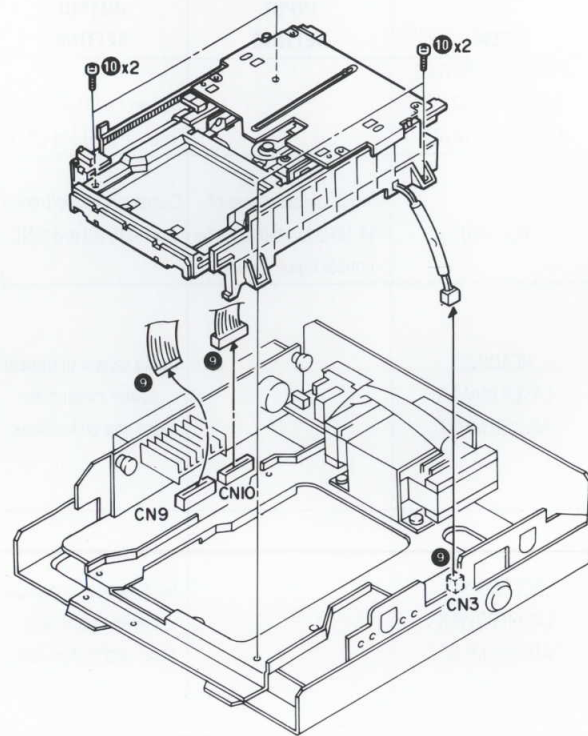
7. Disconnect the two connectors (7).
8. Remove the six screws, then remove the front panel (8).



DISASSEMBLY FOR REPAIR

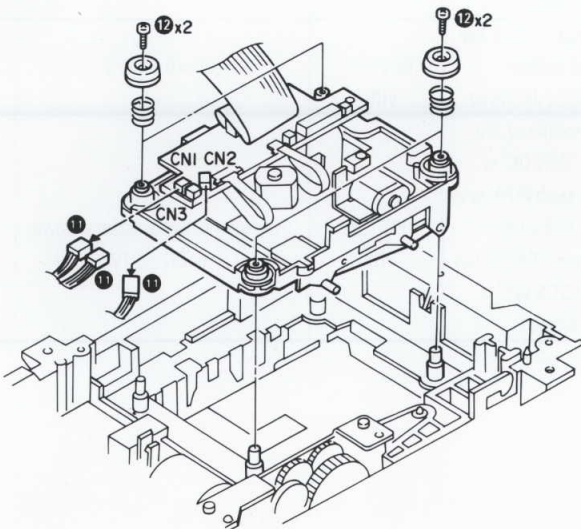
Removing the Mechanism Ass'y

9. Disconnect the two connectors and one flexible cable (9).
10. Remove four screws (10), then remove the mechanism ass'y.

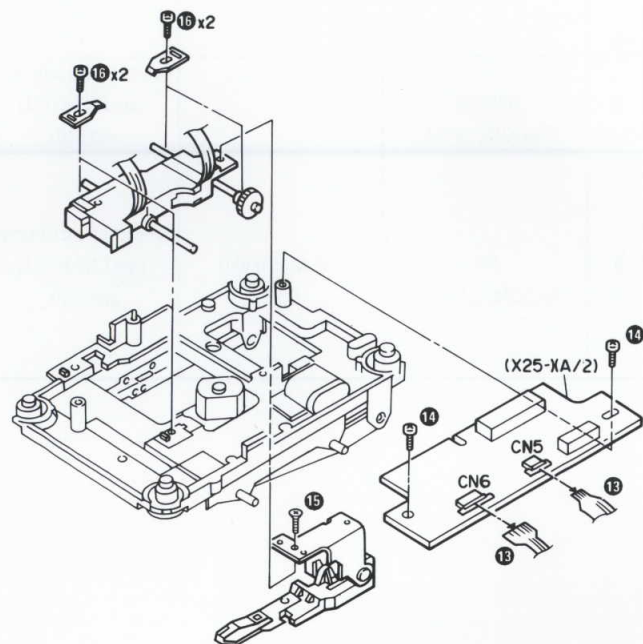


Removing the Pickup and Record Head

11. Disconnect the three connectors (11).
12. Remove the four screws (12).



13. Disconnect the two flexible cords (13).
14. Remove the two screws (14), then remove the PCB (X25 A/2).
15. Remove the one screw (15), then remove the record head.
16. Remove the four screws (16), then remove the pickup.





ADJUSTMENT

No.	ITEM	INPUT SETTING	OUTPUT SETTING	PLAYER SETTING	ALIGNMENT POINT	ALIGN FOR	FIG.
1	RECORDING POWER ADJUSTMENT OF MAGNETIC HEAD	-	Connect a DC voltmeter over Q12 (E) and GND.	STOP or PLAY	HD. DRV. PWR. VR12	DC +4V	
2	PLL VCO	Input digital signal of 44.1kHz for sampling to optical input terminal.	Connect a DC voltmeter over Q18 (C) and GND.	Set to MONITOR ON (Remote controller), RECORDING, INPUT SELECTOR : OPT.	DIN PLL L1	DC +2.5V	
3	READING LASER POWER ADJUSTMENT	-	Apply sensor of optical power meter over laser and pickup-lens.	Short TEST pin to GND and turn POWER on, then select TEST MODE. "TEST" blinks for a while, then "TEST OK" is indicated. Push ►► key to confirm that "TEST 1" is indicated.	APC VR1	0.68mW ± 0.02mW	
4	RECORDING LASER POWER ADJUSTMENT	-	Apply sensor of optical power meter over laser and pickup-lens.	Push ◀◀ key to confirm that "TEST 2 MIN" ◀◀ is indicated. Then, "TEST 2 MAX." and "TEST 2 MIN" is selected alternately each time key is pushed.	TEMP VR2	0.68mW ± 0.2mW •"TEST 2 MAX" is indicated.	
5	FOCUS OK OFFSET	-	Connect a DC voltmeter over CN8-4 (ABCD) and GND.	Push STOP key and confirm "TEST OK" is displayed.	FOK OFST VR3	DC = 0 ± 50mV	
6	FOCUS OFFSET	-	Connect a DC voltmeter over CN7-2 (FE1) and GND.	Push STOP key and confirm "TEST OK" is displayed.	FOFST VR4	DC = 0 ± 50mV	
7	PIT TRACKING OFFSET	-	Connect a DC voltmeter over CN7-6 (TE1) and GND.	Push TRACK DELETE key. Each time it is pushed, "TEST 5G" and "TEST 5P" is indicated alternately. Confirm that "TEST 5P" is indicated.	PIT TOF VR5	DC = 0 ± 50mV	
8	GROOVE TRACKING OFFSET	-	Connect a DC voltmeter over CN7-6 (TE1) and GND.	Push TRACK DELETE key and confirm "TEST 5G" is displayed.	GRV TOF VR6	DC = 0 ± 50mV	
9	PIT TRACKING BALANCE	PRE-MASTERED DISC	Connect an oscilloscope over CN7-6 (TE1) and GND.	Set pre-mastered disc. After "TEST OK" is indicated, push PLAY key. After "TEST 3 ON" is indicated, push PAUSE key, and "TEST 3 OFF" is indicated.	PIT T.B VR7	Symmetry between upper or lower or DC ± 0.1V	

ADJUSTMENT

No.	ITEM	INPUT SETTING	OUTPUT SETTING	PLAYER SETTING	ALIGNMENT POINT	ALIGN FOR	FIG.
10	GROOVE TRACKING BALANCE	RECORDABLE DISC	Connect an oscilloscope over CN7-6 (TE1).	Set recordable disc. After "TEST OK" is indicated, push PLAY key. After "TEST 3 ON" is indicated, push PAUSE key, and "TEST 3 OFF" is indicated.	GRV T.B VR8	Symmetry between upper or lower or DC $\pm 0.1V$	
11	FOCUS BIAS	RECORDABLE DISC	Connect an oscilloscope over CN7-1 (RF).	Set a recordable disc. After "TEST OK" is indicated, push PLAY key. Confirm that "TEST 3 ON" is indicated.	F. BIAS VR9	Eye pattern is at maximum and best.	
12	FOCUS GAIN	RECORDABLE DISC Apply signal of 1.0kHz, 100m Vrms to CN7 pin 2-3.	Connect a L.P.F. to CN7 pin 2-3 to which connect an oscilloscope or two AC voltmeters.	Set a recordable disc. After "TEST OK" is indicated, push PLAY key. Confirm that "TEST 3 ON" is indicated.	F. GAIN VR10	Two VTVMs should read the same value.	
13	TRACKING GAIN	RECORDABLE DISC Apply signal of 1.2kHz, 100m Vrms to CN7 pin 5-6.	Connect a L.P.F. to CN7 pin 5-6 to which connect an oscilloscope or two AC voltmeters.	Set a recordable disc. After "TEST OK" is indicated, push PLAY key. Confirm that "TEST 3 ON" is indicated.	TRACKING GAIN VR11	Two VTVMs should read the same value.	

(Note)

- REPEAT KEY ... TEST MODE canceled
-  KEY ... ALL OFF
-  KEY ... ALL ON
- TITLE KEY ... Cluster point is indicated

ADJUSTMENT

Laser power set

Laser power when playing high reflectance disc (PIT) and low reflectance (GROOVE) depends on D.TYPE switch (S1). When recording, laser power depends on TOC information.

Mode	APC REF (IC1 20pin)	Laser power	D.type SW (S1)
High reflectance disc (playback)	0.18V	0.34mW	ON
Low reflectance disc (playback)	0.35V	0.68mW	OFF
Recordable disc (recording) min.	1.73V	3.4mW	OFF
Recordable disc (recording) max.	3.27V	6.8mW	Laser power depends on TOC

Control by μ -com

RF switches are set by the kind of disc and track.

RFSW1 (1 : Track is PIT, 0 : Track is GROOVE)

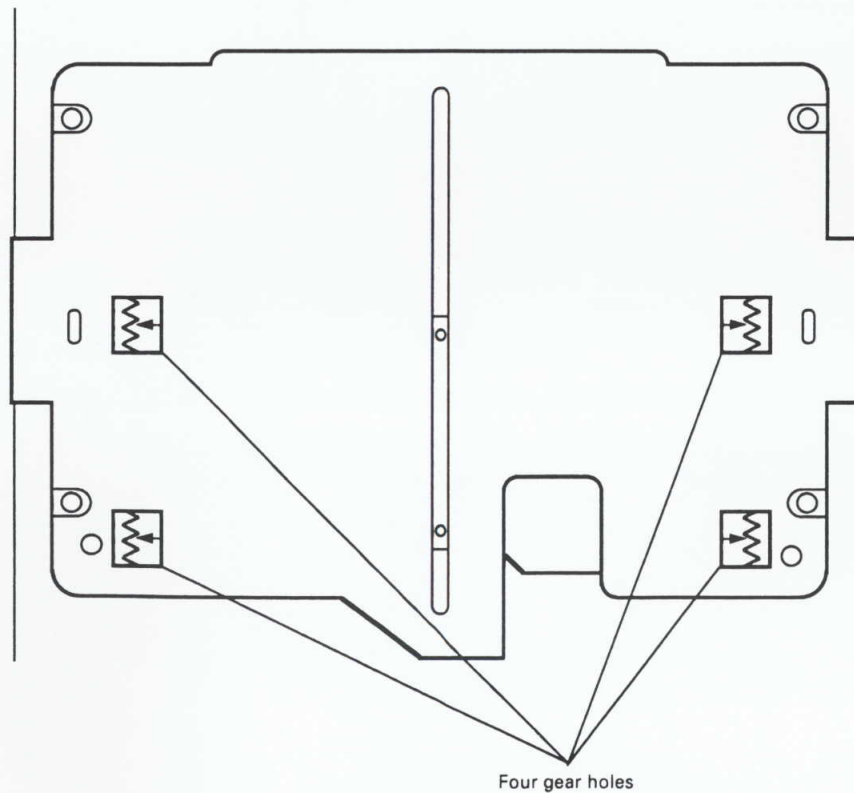
RFSW0 (1 : High reflectance disc, 0 : Low reflectance disc)

Mode	RFSW1 (IC1 38pin)	RFSW0 (IC1 37pin)
Groove area of recordable disc	0	0
PIT area of recordable disc	1	0
High reflectance disc (Premastered)	1	1

Adjustment of Tray Gear

Stop the tray at the center as shown below while it is opening or closing, then adjust the gear position so that all the arrows can be seen at the center through the four holes (on the top).

The gear of the tray does not go out of the position during the normal opening operation. If only one tooth of it is shifted, however, during servicing, the tray may not open normally. Accordingly, be sure to set the gear correctly.



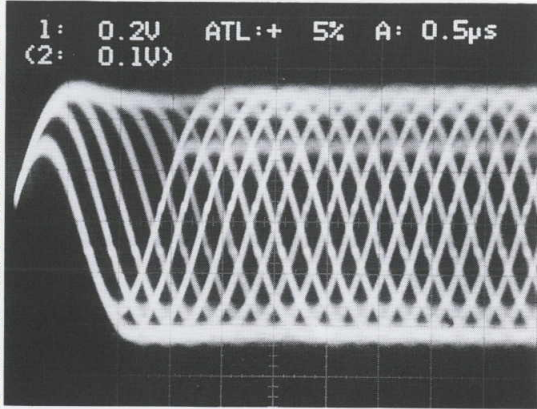
ADJUSTMENT

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Waveforms

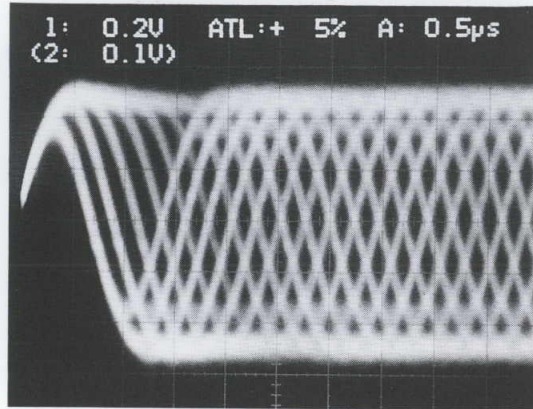
Premastered disc (playback disc)

• Eye pattern

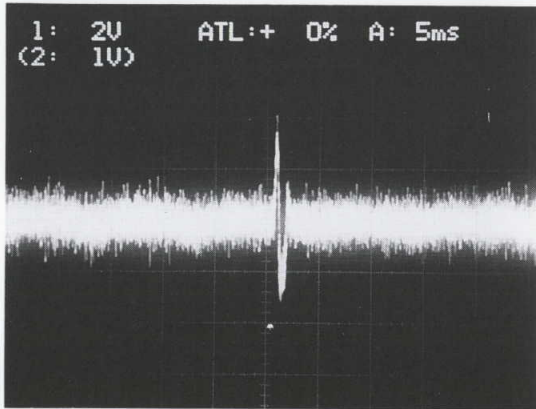


Premastered disc (Recording disc)

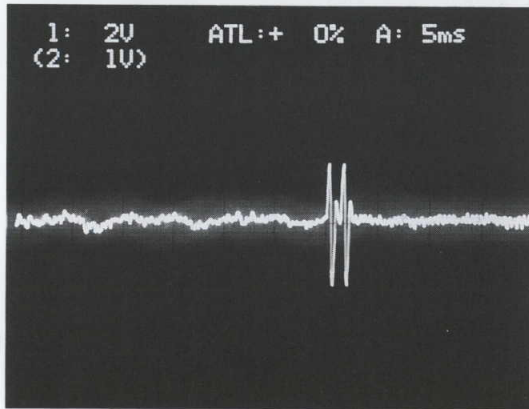
• Eye pattern



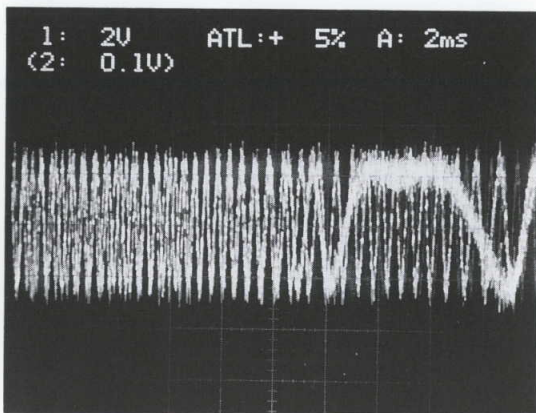
• Tracking error



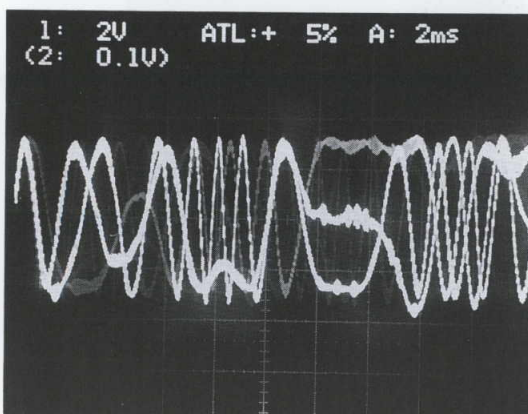
• Tracking error



• Tracking error balance



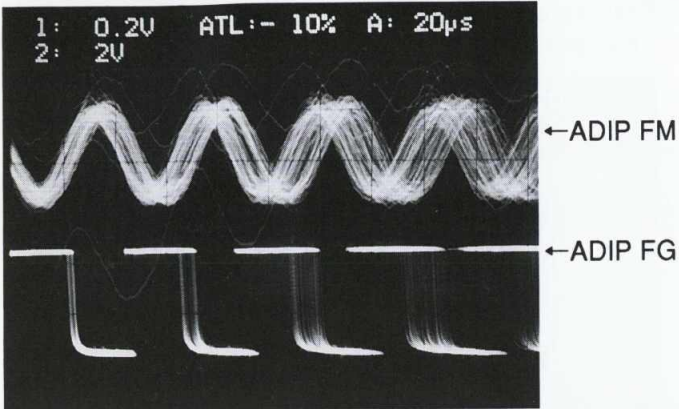
• Tracking error balance



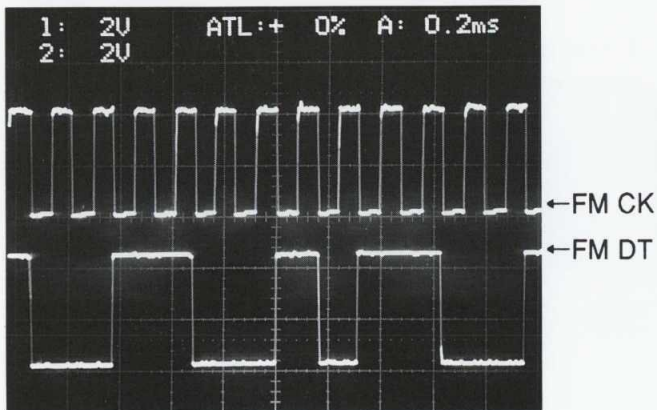
DM-E9

ADJUSTMENT

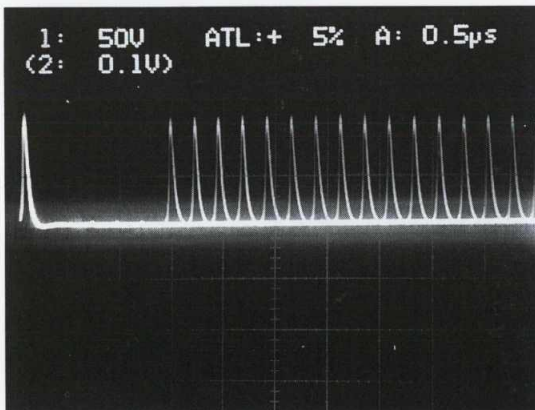
• ADIP signal ① (Recordable disc only)



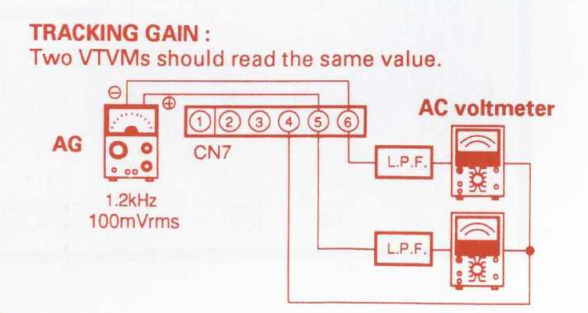
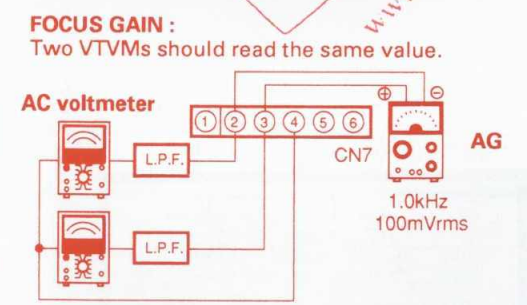
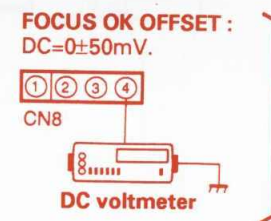
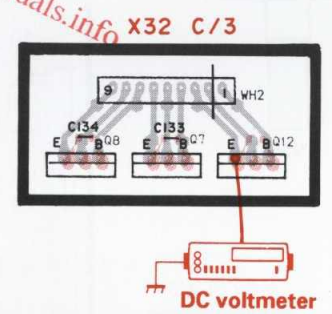
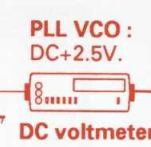
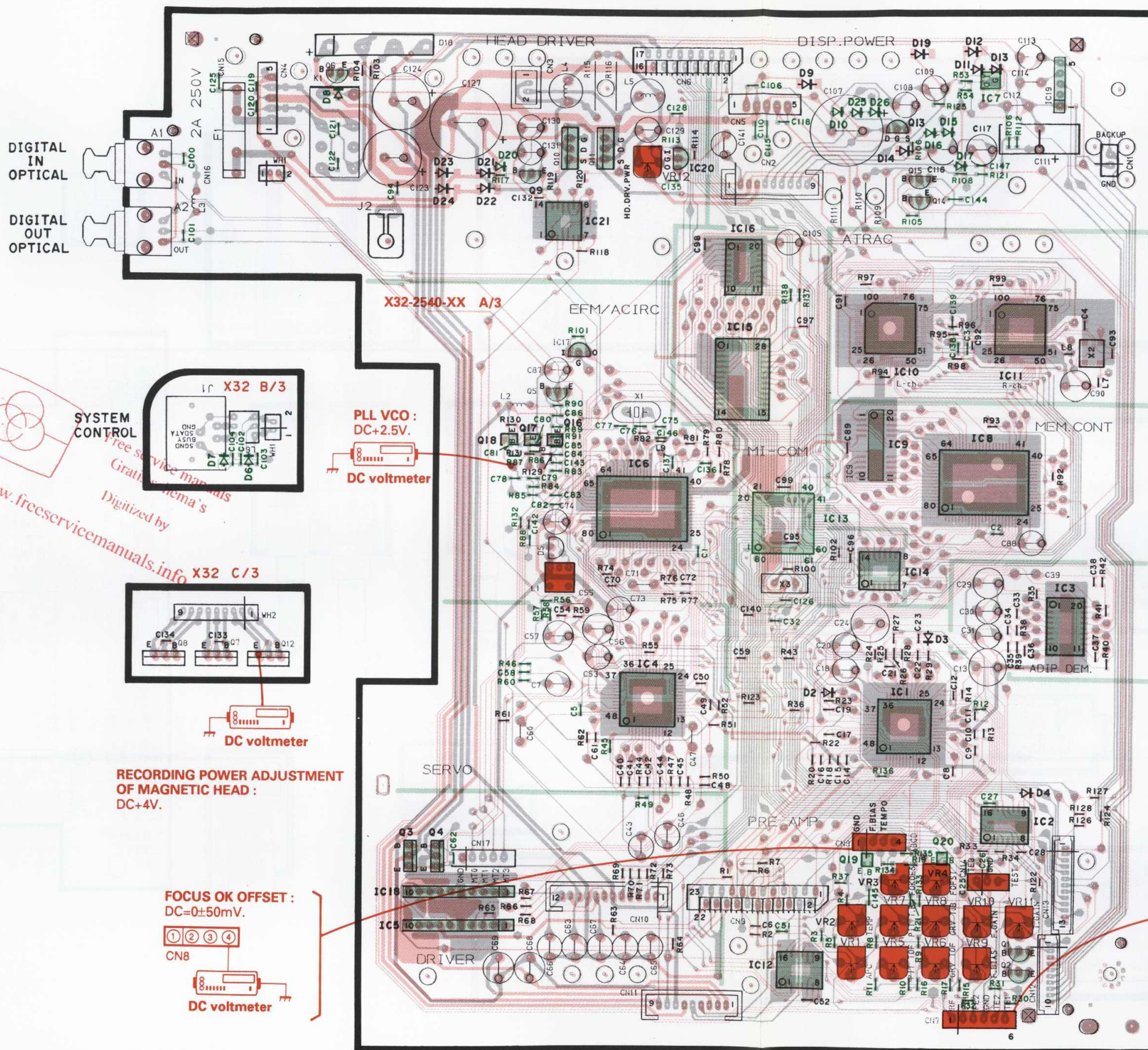
• ADIP signal ② (Recordable disc only)



•Recording head (CN3)

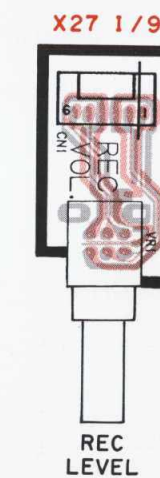
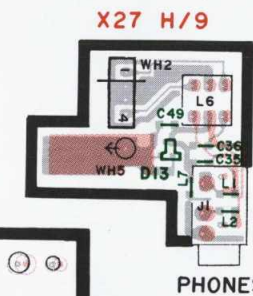
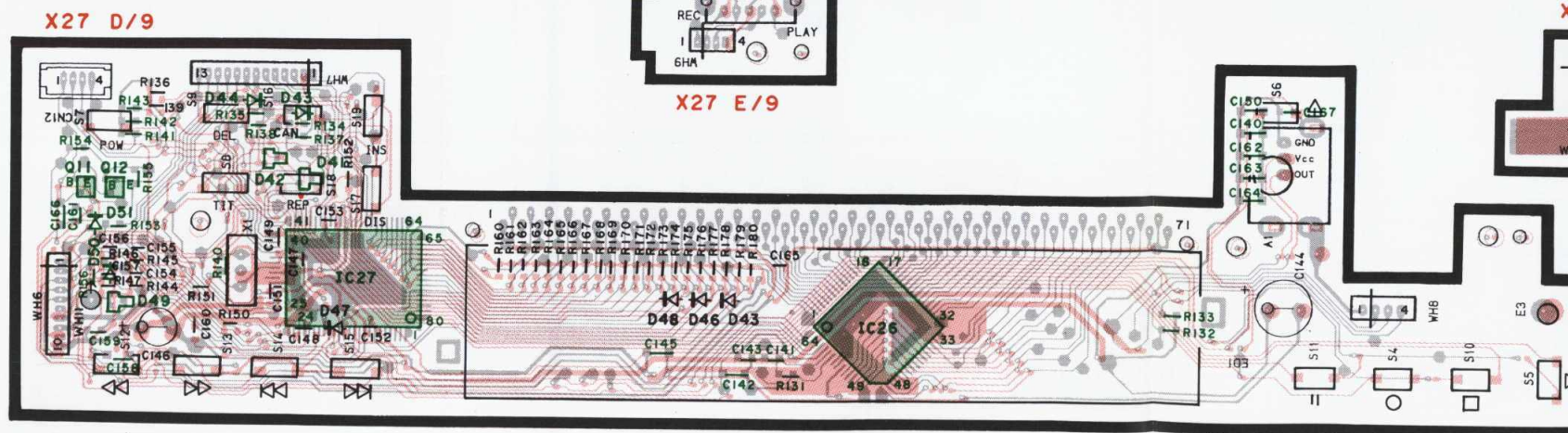
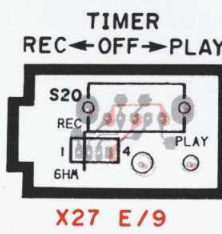
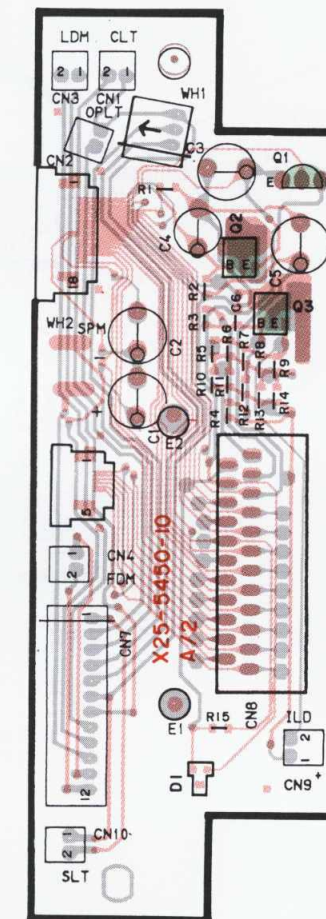
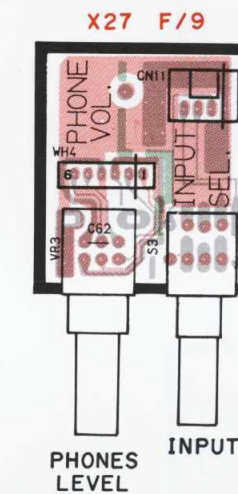
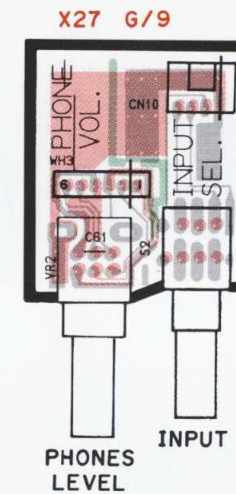
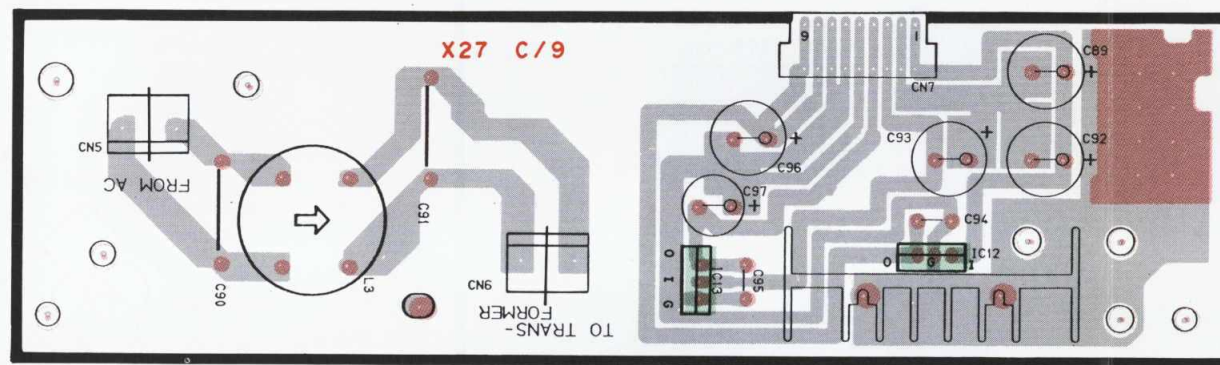
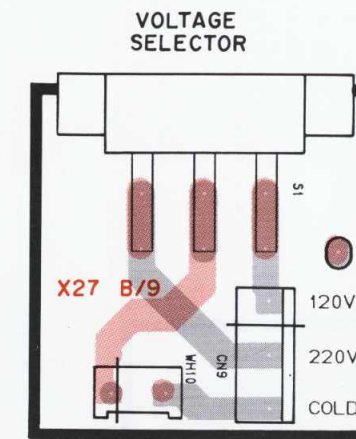
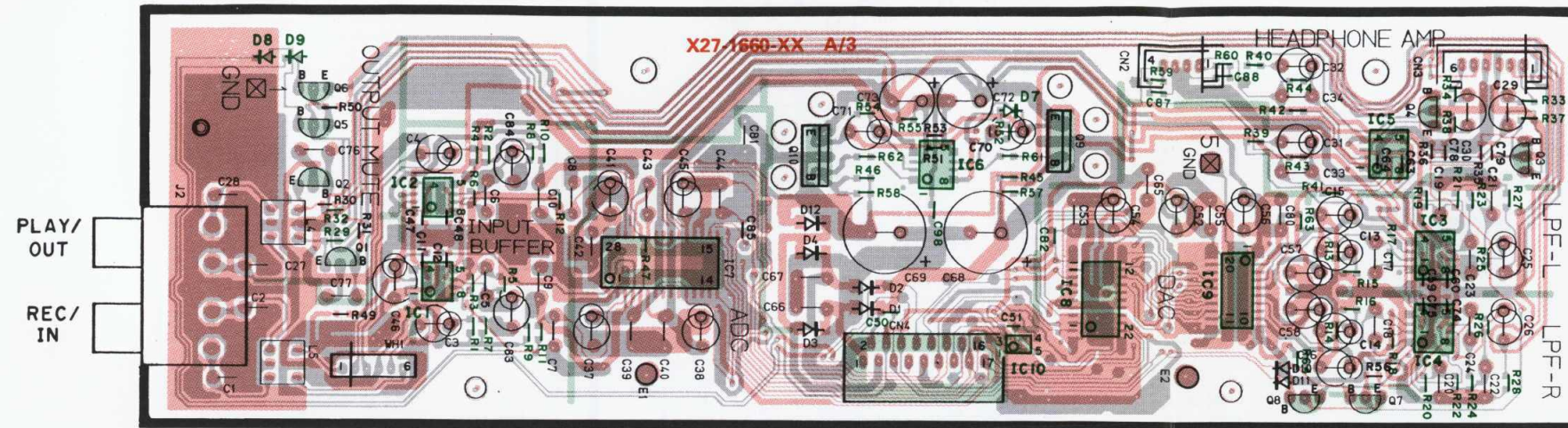


PC BOARD (COMPONENT SIDE VIEW)



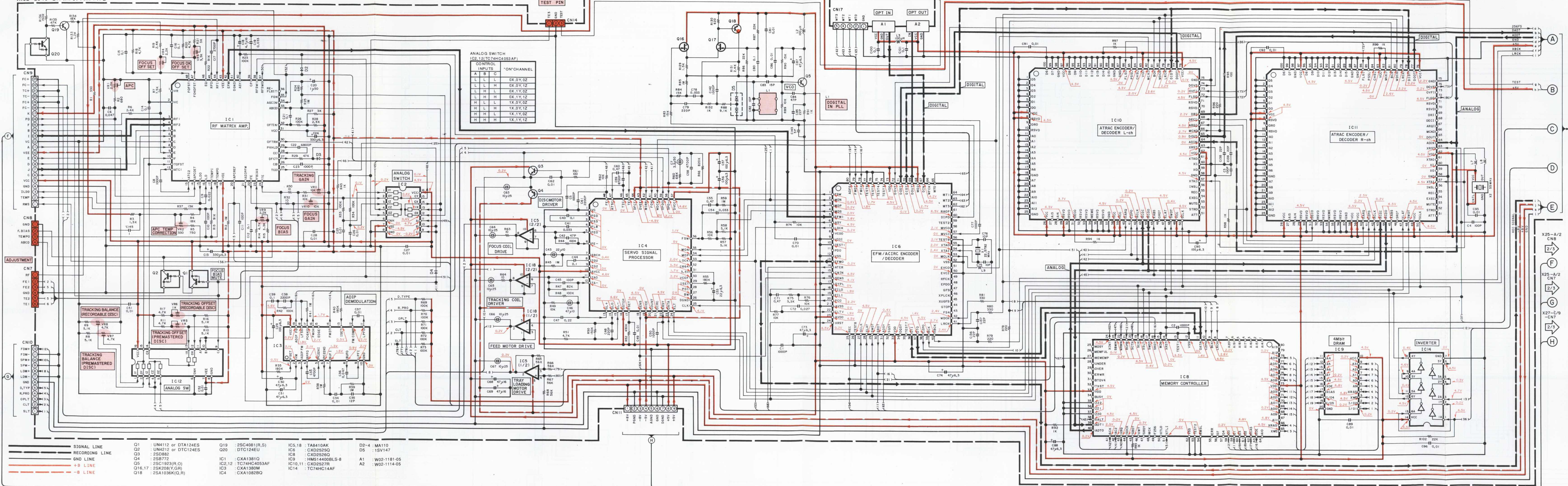
Refer to the schematic diagram for the values of resistors and capacitors.

PC BOARD (COMPONENT SIDE VIEW)



Refer to the schematic diagram for the values of resistors and capacitors.

X32-2540-11 (A/3) (P) TYPE
X32-2540-21 (A/3) (M) TYPE



CONTROL INPUTS 'ON' CHANNEL

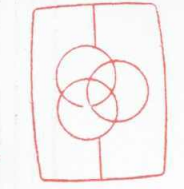
A	B	C	ON CHANNEL
L	L	L	0X,0Y,0Z
L	L	H	0X,0Y,1Z
L	H	L	0X,1Y,0Z
L	H	H	0X,1Y,1Z
H	L	L	1X,0Y,0Z
H	L	H	1X,0Y,1Z
H	H	L	1X,1Y,0Z
H	H	H	1X,1Y,1Z

- SIGNAL LINE
 - RECORDING LINE
 - GND LINE
 - +B LINE
 - B LINE
- Q1 : UN4112 or DTA124ES
 - Q2 : UN4212 or DTC124ES
 - Q3 : 2SD882
 - Q4 : 2SB772
 - Q5 : 2SC1923(R,O)
 - Q16,17 : 2SK208(Y,G,R)
 - Q18 : 2SA1036(K,Q,R)
 - Q19 : 2SC4081(R,S)
 - Q20 : DTC124EU
 - IC1 : CXA1381Q
 - IC2,12 : TC74HC4053AF
 - IC3 : CXA1380M
 - IC4 : CXA1082BQ
 - IC5,18 : TA8410AK
 - IC6 : CXD2525Q
 - IC8 : CXD2526Q
 - IC9 : HM514400BLS-B
 - IC10,11 : CXD2527R
 - IC14 : TC74HC14F
 - D2-4 : MA110
 - D5 : 1SV147
 - A1 : W02-1181-05
 - A2 : W02-1114-05

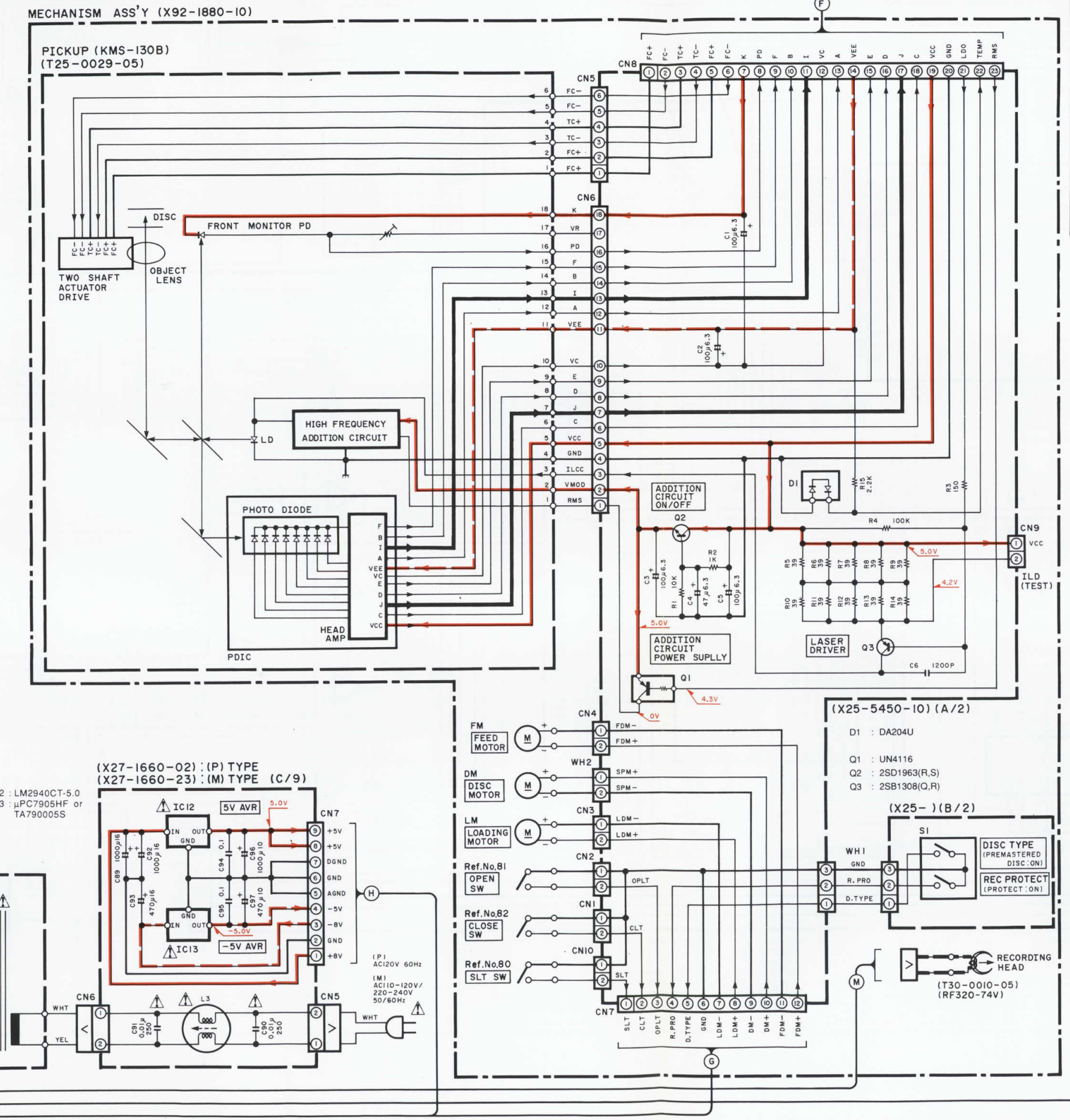
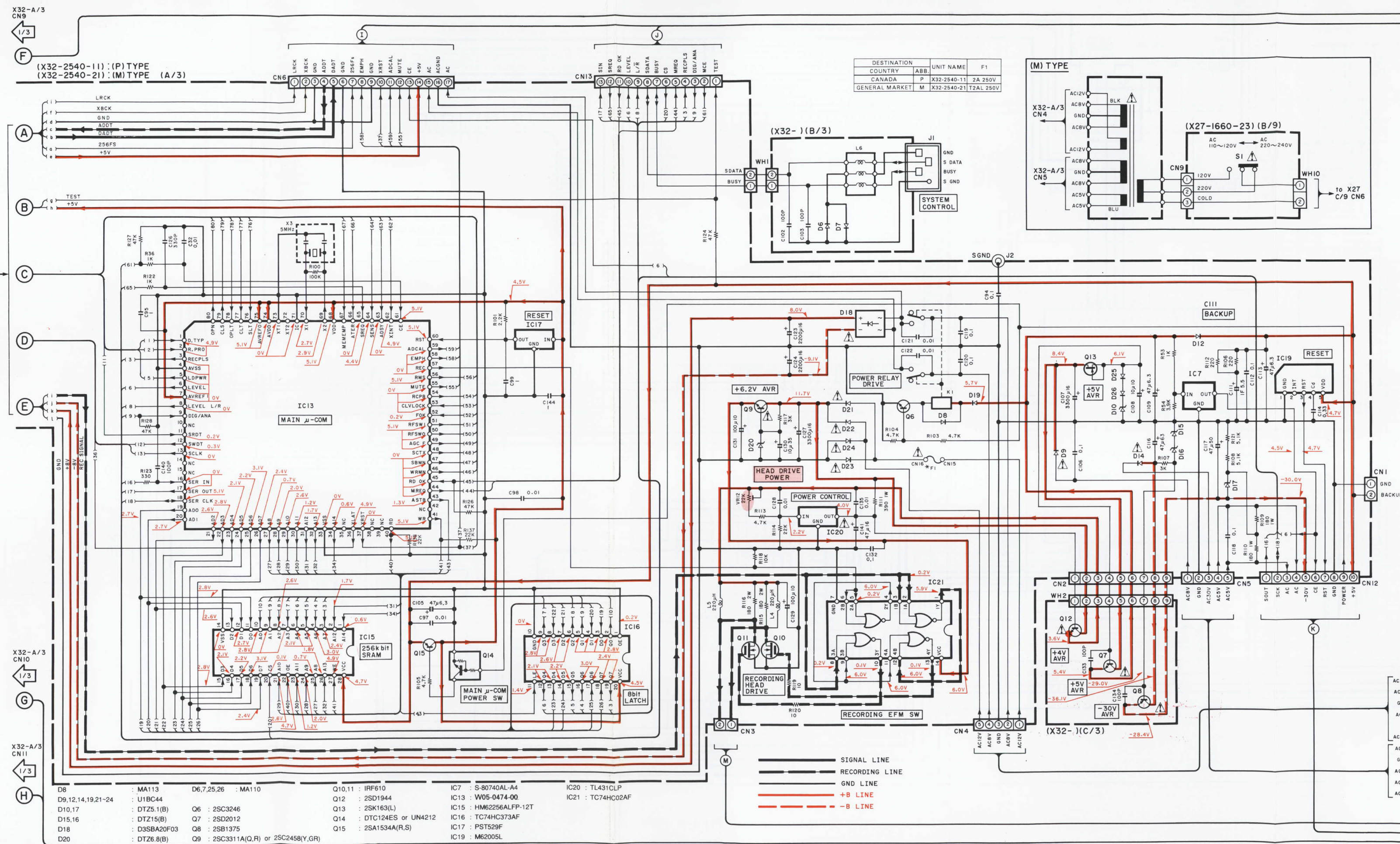
• DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). **▲** 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.

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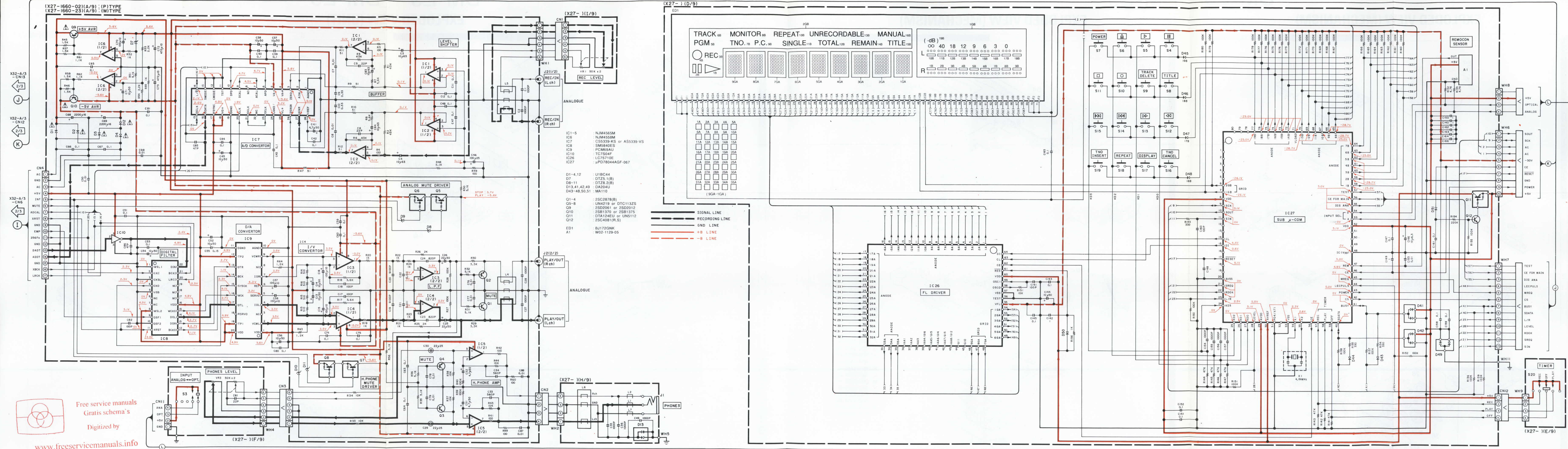
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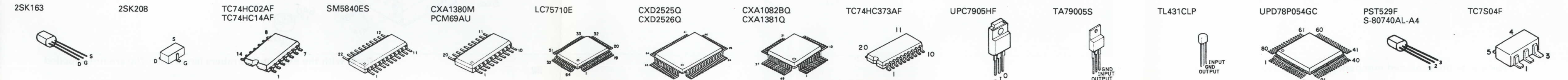
- 2SA1534A
- 2SC1923
- 2SC2878
- 2SC3246
- UN4212
- UN4219
- 2SC311A
- 2SB772
- 2SD882
- 2SB1375
- 2SD2012
- DTA124ES
- DTC124ES
- UN4112
- UN4116
- 2SC2458
- M62005L
- DTA124EU
- DTC124EU
- 2SA1036K
- 2SC4081
- TAB410AK
- 2SB1308
- NJM4558M
- NJM4565M
- 2SD1963
- LM2940CT-5.0
- 2SB1370
- 2SD1944
- 2SD2061
- DA204U

• DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

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.



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PARTS LIST

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* New Parts
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Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部 品 名 / 規 格	Desti- nation 任 務	Re- marks 備 考
C6		CK73FB1H122K	CHIP C 1200PF K		
S1		568-0031-05	PUSH SWITCH		
D1		DA204U			
Q1		UN4116	DIODE		
Q2		2SD1963(R,S)	TRANSISTOR		
Q3		2SB1308(Q,R)	TRANSISTOR		
POWER SUPPLY (X27-1660-XX) -02 : P -23 : M					
C1 , 2		CF92FV1H102J	MF 1000PF J		
C3 , 4		CE04KW1J100M	ELECTRØ 100F 63WV		
C5 , 6		CC45FSL1H220J	CERAMIC 22PF J		
C7 , 8		CF92FV1H103J	MF 0.010UF J		
C9 , 10		CF92FV1H334J	MF 0.33UF J		
C11 , 12		CK73FF1E104Z	CHIP C 0.1UF Z		
C13 , 14		CE04KW1H100M	ELECTRØ 100F 50WV		
C15 , 16		CE04KW1A101M	ELECTRØ 100UF 10WV		
C17 , 18		CF92FV1H101K	MF 100PF K		
C19 , 20		CF92FV1H1912J	MF 9100PF J		
C21 , 22		CF92FV1H113J	MF 0.011UF J		
C23 , 24		CF92FV1H821J	MF 820PF J		
C25 , 26		CE04KW1H220M	ELECTRØ 22UF 50WV		
C27 , 28		CF92FV1H102J	MF 1000PF J		
C29 , 30		CE04HW1E220M	NP-ELEC 22UF 25WV		
C31 , 32		CE04KW1H4R7M	ELECTRØ 4.7UF 50WV		
C33 , 34		CF92FV1H561J	MF 560PF J		
C35 , 36		CC73FSL1H102J	CHIP C 1000PF J		
C37 , 38		CE04KW1H100M	ELECTRØ 100F 50WV		
C39 , 40		CF92FV1H104J	MF 0.10UF J		
C41 , 32		CE04KW1H4R7M	ELECTRØ 4.7UF 50WV		
C42 -44		CF92FV1H104J	MF 100UF J		
C45		CE04KW1H100M	ELECTRØ 100UF 50WV		
C46		CE04KW1E101M	ELECTRØ 100UF 25WV		
C47 , 48		CK73FF1E104Z	CHIP C 0.1UF Z		
C49		CC73FSL1H102J	CHIP C 1000PF J		
C50		CK73FB1H103K	CHIP C 0.010UF K		
C51		CK73FF1E104Z	CHIP C 0.1UF Z		
C52		CE04KW1H100M	ELECTRØ 100F 50WV		
C53		CF92FV1H104J	MF 0.10UF J		
C54		CE04KW1H100M	ELECTRØ 100F 50WV		
C55		CF92FV1H154J	MF 0.15UF J		
C56		CE04KW1H100M	ELECTRØ 100F 50WV		
C57 , 58		CE04KW1A101M	ELECTRØ 100UF 10WV		
C59 , 60		CK73FF1E104Z	CHIP C 0.1UF Z		
C61		CC45FSL1H220J	CERAMIC 22PF J		
C63 , 64		CK73FF1E104Z	CHIP C 0.1UF Z		
C65 -67		CF92FV1H104J	MF 0.10UF J		
C68 , 69		CE04KW1C222M	ELECTRØ 2200UF 16WV		
C70		CE04KW1A101M	ELECTRØ 100UF 10WV		
C71		CE04KW1H100M	ELECTRØ 100F 50WV		
C72 , 73		CE04KW1A471M	ELECTRØ 470UF 10WV		
C74 , 75		CK73FF1E104Z	CHIP C 0.1UF Z		
C76 , 77		CC45FF1H103Z	CERAMIC 0.010UF Z		
C78 , 79		CK73FB1H103K	CHIP C 0.010UF K		
C80 , 81		CF92FV1H104J	MF 0.10UF J		

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DM-E9					
601	1E	A01-3222-01	METALLIC CABINET		
602	1E	A09-0160-08	BATTERY COVER		
605	3E	A29-0380-13	PANEL ASSY (TRAY)		
608	2E	A60-0640-12	PANEL ASSY		
610	1E	A70-0938-05	REMOCON ASSY (RC-DMB9)		
617	1E	B19-1529-05	OPTICAL FIBER	P	
-	-	B46-0092-43	WARRANTY CARD	P	
-	-	B46-0121-33	WARRANTY CARD	P	
-	-	B46-0310-03	WARRANTY CARD	P	
-	-	B58-0964-13	CAUTION CARD	P	
-	-	B58-0965-13	CAUTION CARD	M	
-	-	B58-0966-13	CAUTION CARD	M	
-	-	B60-2018-00	INSTRUCTION MANUAL(ENGLISH)		
-	-	B60-2019-00	INSTRUCTION MANUAL(FRENCH)		
-	-	B60-2020-00	INSTRUCTION MANUAL(G/D/I)	M	
-	-	B60-2021-00	INSTRUCTION MANUAL(SPANISH)	M	
-	-	B60-2022-00	INSTRUCTION MANUAL(CHINESE)	M	
-	-	B60-2024-00	INSTRUCTION MANUAL(TAIWAN)	M	
620	1E	E03-0115-05	AC PLUG ADAPTER		
621	1E	E30-0615-05	AUDIO CORD	M	
622	1H	E30-2592-15	AC POWER CORD	M	
623	1H	E30-2650-05	AC POWER CORD	M	
624	1E	E30-2628-05	CORD WITH CONNECTOR	P	
625	1G	E35-0721-05	WIRING HARNESS		
624	1H	E35-0743-05	WIRING HARNESS		
632	2F	G02-1050-14	FLAT SPRING		
633	2G	G10-0146-04	NON-WOVEN FABRIC		
634	3E, 3F	G11-2052-14	CUSHION		
635	2E, 3G	G11-2069-04	CUSHION		
636	2G	G11-2126-04	SOFT TAPE		
-	-	H10-5867-12	POLYSTYRENE FOAMED FIXTURE(L)		
-	-	H10-5868-12	POLYSTYRENE FOAMED FIXTURE(R)		
-	-	H20-0576-04	PROTECTION COVER	M	
-	-	H21-0310-04	PROTECTION SHEET		
-	-	H21-0313-04	PROTECTION SHEET		
-	-	H25-0232-04	PROTECTION BAG (235X350X0.03)		
-	-	H25-0691-04	PROTECTION BAG		
-	-	H50-1408-04	ITEM CARTON CASE		
640	3H	J02-0130-05	FOOT		
641	2E, 3F	J02-1095-04	FOOT		
643	1G	J19-3208-05	UNIT HOLDER		
647	1H	J42-0083-05	POWER CORD BUSHING		
-	-	J61-0307-05	WIRE BAND		
650	3F	K29-4377-04	KNØB (INPUT ØPT/PHONES LEVEL)	P	
651	3E	K29-6012-04	KNØB (REC LEVEL)	M	
655	2H	L07-0702-15	POWER TRANSFORMER		
655	2H	L07-0703-15	POWER TRANSFORMER		
MECHANISM PCB (X25-5450-10)					
C1 -3		C90-3214-05	ELECTRØ 100UF		
C4		C90-3212-05	ELECTRØ 47UF		
C5		C90-3214-05	ELECTRØ 100UF		

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PARTS LIST

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3

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 仕向備考
C82			CK73FSLH101J	CHIP C	
C83 , 84			CE04KW1J100M	ELECTR0 100PF	
C85 , 86			CC73FSLH470J	CHIP C	
C87 , 88			CK73FB1H103K	CHIP C	
C89			CE04KW1C102M	ELECTR0 0.010UF	
C90 , 91			C91-1439-05	FILM	
C92			CE04KW1C102M	ELECTR0 0.010UF	
C93			CE04KW1C471M	ELECTR0 470UF	
C94 , 95			CF92FV1H104J	MF	
C96			CE04KW1A102M	ELECTR0 10000UF	
C97			CE04KW1A471M	ELECTR0 470UF	
C98			CK73FB1H103K	CHIP C	
C140			CK73BF1C105Z	CHIP C	
C141			CC73FSLH101J	CHIP C	
C142			CK73BF1C105Z	CHIP C	
C143			CK73FF1E104Z	CHIP C	
C144			C90-3258-05	ELECTR0 10UF	
C145			CK73FB1H104K	CHIP C	
C146			C90-3209-05	ELECTR0 10UF	
C147			CK73FF1E104Z	CHIP C	
C148-150			CK73BF1C105Z	CHIP C	
C151, 152			CK73FF1E104Z	CHIP C	
C153			CK73FB1H103K	CHIP C	
C154-157			CC73FSLH102J	CHIP C	
C158			CK73FB1H104K	CHIP C	
C159			CK73BF1E104Z	CHIP C	
C160			CC73FSLH101J	CHIP C	
C161			CK73FF1E104Z	CHIP C	
C162-164			CK73BF1C105Z	CHIP C	
C165			CK73FF1E104Z	CHIP C	
C166			CK73BF1C105Z	CHIP C	
J1	3F		E11-0228-05	MINIATURE PHONE JACK (PHONES)	M
J2	2H		E63-0107-05	PHONE JACK (REC/IN PLAY/OUT)	
L1 , 2			L79-1216-05	LINE FILTER	
L3			L79-0733-05	LINE FILTER	
L4 - 6			L79-1211-05	LINE FILTER	
L7			L79-1216-05	LINE FILTER	
X1			L78-0267-05	RESONATOR (4.194MHZ)	
VR1	2G		R10-4049-05	POTENTIOMETER (REC LEVEL)	
VR3	2F		R10-4050-05	POTENTIOMETER (PHONES LEVEL)	
S1	1H		S62-0001-05	SLIDE SWITCH	M
S3	2F		S60-0022-05	ROTARY SWITCH (INPUT 0UT)	
S4 - 19	2E, 2F		S70-0815-05	TACT SWITCH	
S20	2E		S62-0036-05	SLIDE SWITCH (TIMER REC)	
D1 - 4			U1BC44	DIODE	
D7			D1Z5-1(B)	ZENER DIODE	
D8 - 11			DTZ8-2(B)	ZENER DIODE	
D12			U1BC44	DIODE	
D13			DA204U	DIODE	
D41 , 42			DA204U	DIODE	
D43 - 48			MA110	DIODE	
D49			DA204U	DIODE	
D50 , 51			MA110	DIODE	

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4

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E01	2F		BJ172GNK	INDICATOR TUBE	
IC1 - 5			NJM4565M	IC(OP AMP X2)	
IC6			NJM4558M	IC(OP AMP X2)	
IC7			AK5339-VS	IC(A/D CONVERTER)	
IC7			CS5339-KS	IC(A/D CONVERTER)	
IC8			SM5840ES	IC(DIGITAL FILTER)	
IC9			PCM69AU	IC(D/A CONVERTER)	
IC10			TC7S04F	IC(2CH NAND GATE)	
△ IC12			LM2940CT-5.0	IC(VOLTAGE REGULATOR/ +5V)	
△ IC13			TA79005S	IC(VOLTAGE REGULATOR/ -5V)	
△ IC13			UPC7905HF	IC(VOLTAGE REGULATOR/ -5V)	
IC26			LC75710E	IC(DISPLAY DRIVER)	
IC27		*	UPD7804AGF-067	MI-COM IC	
Q1 - 4			25C2878(B)	TRANSISTOR	
Q5 - 8			DTC113ZS	DIGITAL TRANSISTOR	
Q5 - 8			UM4219	TRANSISTOR	
△ Q9			2SD2012	TRANSISTOR	
△ Q9			2SD2061	TRANSISTOR	
△ Q10			25B1370	TRANSISTOR	
Q11			25B1375	TRANSISTOR	
Q11			DTA124EU	DIGITAL TRANSISTOR	
Q11			UM5112	TRANSISTOR	
Q12			25C4061(R,S)	TRANSISTOR	
A1	2F		W02-1129-05	ELECTRIC CIRCUIT MODULE	
CONTROL (X32-2540-XX) -11:P -21:M					
C1 , 2			CK73FB1H102K	CHIP C	
C3			CC73FSLH101J	CHIP C	
C5			CK73FB1H102K	CHIP C	
C6			CK73FB1E473K	CHIP C	
C7			CE04HW1H3R3M	NP-ELEC	
C8			CK73FB1H102K	CHIP C	
C9			CK73FB1H223K	CHIP C	
C10 , 11			CC73FSLH101J	CHIP C	
C12			CK73FF1E104Z	CHIP C	
C13			C90-3216-05	ELECTR0 330UF	
C14 - 16			CK73FF1E104Z	CHIP C	
C17			CK73FB1H272K	CHIP C	
C18			C90-3224-05	ELECTR0 4.7UF	
C19			CK73FB1E333K	CHIP C	
C20			C90-3253-05	ELECTR0 1UF	
C21			CK73FB1E104K	CHIP C	
C22			CK73FB1H682K	CHIP C	
C23			CK73FB1H102K	CHIP C	
C24			C90-5216-05	ELECTR0 350UF	
C25 - 28			CK73FB1H103K	CHIP C	
C29			C90-3214-05	ELECTR0 100UF	
C30 , 31			C90-3212-05	ELECTR0 47UF	
C32			CK73FB1H103K	CHIP C	
C33			CK73FB1H472K	CHIP C	
C34			CK73FB1H105K	CHIP C	
C35			CC73FSLH120J	CHIP C	
C36			CK73FB1E473K	CHIP C	
C37			CK73FB1H103K	CHIP C	

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C38			CK73FB1H222K	CHIP C		
C39			CF92FV1H104J	MF		
C40			CK73FB1E104K	CHIP C		
C41			CK73FB1E333K	CHIP C		
C42			CC73FSL1H470J	CHIP C		
C43			CE04HW1A220M	NP-ELEC		
C44			CK73FB1E104K	CHIP C		
C45			CC73FSL1H101J	CHIP C		
C46			CE04HW1A470M	NP-ELEC		
C47			CF92FV1H224J	MF		
C48			CC73FSL1H221J	CHIP C		
C49			CK73FB1H103K	CHIP C		
C50			CK73FB1H102K	CHIP C		
C51, 52			CK73FB1H103K	CHIP C		
C53			C90-3210-05	ELECTR0		
C54			CK73FB1E333K	CHIP C		
C55			CF92FV1H474J	MF		
C56, 57			C90-3214-05	ELECTR0		
C58, 59			CK73FB1H472K	CHIP C		
C60			CF92FV1H474J	MF		
C61			CK73FB1H222K	CHIP C		
C62			CK73FB1H103K	CHIP C		
C63 -67			CE04HW1E100M	NP-ELEC		
C68, 69			C90-3228-05	ELECTR0		
C70			CK73FB1H103K	CHIP C		
C71			CF92FV1H474J	MF		
C72			CK73FB1E273K	CHIP C		
C73, 74			C90-3212-05	ELECTR0		
C75, 76			CC73FSL1H100D	CHIP C		
C77			CK73FB1H102K	CHIP C		
C78			CK73FB1E333K	CHIP C		
C79			CC73FSL1H221J	CHIP C		
C80			CK73FB1E104Z	CHIP C		
C81			CK73FB1H103K	CHIP C		
C82			CC73FSL1H100D	CHIP C		
C83			CC73FSL1H150J	CHIP C		
C84			CC73FSL1H470J	CHIP C		
C85			CC73FSL1H220J	CHIP C		
C86			CK73FB1H103K	CHIP C		
C87, 88			C90-3212-05	ELECTR0		
C89			CK73FB1H103K	CHIP C		
C90			C90-5214-05	ELECTR0		
C91 -93			CK73FB1H103K	CHIP C		
C94			CK73FB1E104Z	CHIP C		
C95			CK73FB1C105Z	CHIP C		
C96 -98			CK73FB1H103K	CHIP C		
C99			CK73FB1C105Z	CHIP C		
C100, 101			CK73FB1E104Z	CHIP C		
C102, 103			CC73FSL1H101J	CHIP C		
C105			C90-3212-05	ELECTR0		
C106			CK73FB1E104Z	CHIP C		
C107			CE04KW1C332M	ELECTR0		
C108			C90-3217-05	ELECTR0		
C109			C90-3212-05	ELECTR0		
C111			C90-5542-05	ELECTR0		

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C112			CF92FV1H104J	MF		
C113			C90-3212-05	ELECTR0		
C114			CF92FV1H334J	MF		
C116			CE04KW1J470M	ELECTR0		
C117			CE04KW1H470M	ELECTR0		
C118-120			CK73FF1E104Z	CHIP C		
C121, 122			CK73FB1H103K	CHIP C		
C123, 124			CE04KW1C222M	ELECTR0		
C126			CC73FSL1H331J	CHIP C		
C127			CE04KW1C332M	ELECTR0		
C128			CK73FB1H103K	CHIP C		
C129			CE04KW1A101M	ELECTR0		
C130			CE04KW1V100M	ELECTR0		
C131			CE04KW1A101M	ELECTR0		
C132			CK73FF1E104Z	CHIP C		
C133, 134			CC73FSL1H101J	CHIP C		
C135			CK73FB1H103K	CHIP C		
C136-139			CC73FSL1H220J	CHIP C		
C140			CC73FSL1H101J	CHIP C		
C141			CE04KW1C470M	ELECTR0		
C142			CK73FB1H102K	CHIP C		
C143			CC73FSL1H050C	CHIP C		
C144, 145			CK73FB1C105Z	CHIP C		
CN6	2G		E40-4157-05	FLAT CABLE CONNECTOR		
CN9	2G		E40-4163-05	FLAT CABLE CONNECTOR		
J1	1H		E08-0311-05	RECTANGULAR RECEPTACLE		
F1	2H		F04-2025-05	FUSE (UL)		
F1	2H		F06-2021-05	FUSE (SEKK0)		
CN15, 16			J13-0075-05	FUSE CLIP		
L1			L39-1324-05	VARIABLE INDUCTOR		
L2, 3			L40-1011-16	SMALL FIXED INDUCTOR(100UH,K)		
L4, 5			L33-0378-05	CHOKO COIL		
L6			L79-1211-05	LINE FILTER		
L7			L79-1216-05	LINE FILTER		
L8, 9			L92-0131-05	FERRITE CORE		
X1			L77-1124-05	CRYSTAL RESONATOR		
X2			L77-2123-05	CRYSTAL RESONATOR(55.0MHZ)		
X3			L78-0284-05	RESONATOR		
R109, 110			RS14KB3A181J	FL-PROOF RS		
R111			RS14KB3A391J	FL-PROOF RS		
R115, 116			RS14KB30181J	FL-PROOF RS		
VR1			R12-1617-05	TRIMMING POT. (2.2K)		
VR2			R12-0606-05	TRIMMING POT. (330)		
VR3			R12-1618-05	TRIMMING POT. (3.3K)		
VR4			R12-1617-05	TRIMMING POT. (2.2K)		
VR5, 6			R12-1616-05	TRIMMING POT. (1K)		
VR7, 8			R12-1619-05	TRIMMING POT. (4.7K)		
VR9			R12-1617-05	TRIMMING POT. (2.2K)		
VR10, 11			R12-3685-05	TRIMMING POT. (10K)		
VR12			R12-3686-05	TRIMMING POT. (22K)		
K1			S76-0033-05	MAGNETIC RELAY		

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PARTS LIST

* New Parts

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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	Destination 仕向備考
D2 -4			MA110	DIODE	
D5			1SV147	VARIABLE CAPACITANCE DIODE	
D6 , 7			MA110	DIODE	
D8			MA113	DIODE	
D9			U1BC44	DIODE	
D10			DTZ5-1(B)	ZENER DIODE	
D12			U1BC44	DIODE	
D14			U1BC44	DIODE	
D15 , 16			DTZ15(B)	ZENER DIODE	
D17			DTZ5-1(B)	ZENER DIODE	
D18			D3BA20F03	DIODE	
D19			U1BC44	DIODE	
D20			DTZ6-8(B)	ZENER DIODE	
D21 -24			U1BC44	DIODE	
D25 , 26			MA110	DIODE	
IC1			CXA1361Q	IC(REF MATRIX AMP)	
IC2			TC74HC4053AF	IC	
IC3			CXA1360M	IC(ADIP DEMODULATOR)	
IC4			CXA1082BQ	IC(SERVO SIGNAL PROCESSOR)	
IC5			TAB410AK	IC(POWER OP AMP)	
IC6			CXD2525Q	IC(ENCODER/DECODER)	
IC7			S-80740AL-44	IC(VOLTAGE DETECTOR)	
IC8			CXD2526Q	IC(MEMORY CONTROLLER)	
IC9			HMS14400BLS-8	MEMORY IC	
IC10, 11			CXD2527R	IC(ATRAC ENCODER/DECODER)	
IC12			TC74HC4053AF	IC	
IC13			W05-0474-00	IC(8 bit MICROPROCESSOR)	
IC14			TC74HC14AF	IC(SCHMITT INVERTER)	
IC15			HM62256ALFP-12T	IC	
IC16			TC74HC373AF	IC(8 bit LATCH)	
IC17			PST529F	IC(SYSTEM RESET)	
IC18			TAB410AK	IC(POWER OP AMP)	
IC19			M62005L	IC(SYSTEM RESET)	
IC20			TL431CLP	IC(REGULATOR)	
IC21			TC74HC02AF	IC	
Q1			DTA124ES	DIGITAL TRANSISTOR	
Q1			UN4112	TRANSISTOR	
Q2			DTC124ES	DIGITAL TRANSISTOR	
Q2			UN4212	TRANSISTOR	
Q3			25D882	TRANSISTOR	
Q4			25B772	TRANSISTOR	
Q5			25C1923(R, 0)	TRANSISTOR	
Q6			25C3246	TRANSISTOR	
Q7			25D2012	TRANSISTOR	
Q8			25B1375	TRANSISTOR	
Q9			25C2458(Y, GR)	TRANSISTOR	
Q9			25C3311A(Q, R)	TRANSISTOR	
Q10 , 11			IRF610	FET	
Q12			25D1944	TRANSISTOR	
Q13			25K163(L)	FET	
Q14			DTC124ES	DIGITAL TRANSISTOR	
Q14			UN4212	TRANSISTOR	
Q15			25A1534A(R, S)	TRANSISTOR	
Q16 , 17			25K208(Y, GR)	FET	
Q18			25A1036K(Q, R)	TRANSISTOR	

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Q19			25C4081(R, S)	TRANSISTOR	
Q20			DTC124EU	DIGITAL TRANSISTOR	
A1	2H		W02-1181-05	OPTIC RECEIVING MODULE	
A2	2H		W02-1114-05	OSCILLATING MODULE	
MECHANISM (X92-1880-10)					
2	2B	*	A10-3052-01	CHASSIS	
8	3B		B09-0242-04	CAP	
10	1B		D10-3380-03	SLIDER ASSY	
11	1B		D10-3382-03	SLIDER ASSY	
12	2A		D10-3385-03	SLIDER	
13	1B		D10-3386-04	RØD	
14	2B		D10-3387-04	ARM	
15	1D	*	D10-3388-03	LEVER	
16	3C		D10-3389-04	RØD	
17	1D	*	D10-3390-03	LEVER	
18	1C		D10-3391-04	ARM ASSY	
19	1D		D10-3393-03	ARM	
20	1D		D10-3420-04	ARM ASSY	
23	3A		D13-0976-03	GEAR	
24	3A		D13-0978-03	GEAR	
25	1A		D13-1542-04	GEAR	
26	3A		D13-1543-04	GEAR	
27	3A		D13-1544-04	GEAR	
28	3A		D13-1545-04	GEAR	
29	2C		D13-1548-08	GEAR	
30	2C		D13-1547-08	GEAR	
31	3C		D13-1546-08	GEAR ASSY	
32	3D		D13-1550-13	LACK (GEAR)	
35	3A		D15-0292-08	PULLEY	
36	3A		D15-0351-04	PULLEY	
37	3A		D16-0352-05	BELT	
38	1D	*	D21-1728-04	SHAFT	
39	1A		D23-0295-03	RETAINER	
40	2A		D23-0296-03	RETAINER	
44	3B, 1C		E35-0639-05	WIRING HARNESS	
45	3B		E35-0640-05	WIRING HARNESS	
46	2A		E35-0641-05	WIRING HARNESS	
47	1D		E35-0642-05	WIRING HARNESS	
48	2D	*	E35-0798-05	WIRING HARNESS	
51	2A		G01-3582-04	EXTENSION SPRING	
52	1D		G01-3583-04	TORSION COIL SPRING	
53	1D		G01-3584-04	TORSION COIL SPRING	
54	1C		G01-3585-04	TORSION COIL SPRING	
55	1D		G01-3586-04	TORSION COIL SPRING	
56	3B		G01-3611-04	COMPRESSION SPRING	
57	2A		G11-2055-04	CUSHION	
58	2A, 2B		G11-2164-04	CUSHION	
61	3B		J02-1093-08	INSULATOR	
62	1C		J19-3589-02	HOLDER ASSY	
67	1A		J21-6017-04	MOUNTING HARDWARE ASSY	
69	2A		J90-0802-04	GUIDE	
70	2A		J90-0803-04	GUIDE	

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PARTS LIST

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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 向備考
71	3A		J90-0805-03	GUIDE		
72	2A		J90-0806-04	GUIDE		
73	1A		J99-0530-01	TRAY		
78	2D		S33-1022-05	LEVER SWITCH		
79	2A		S40-1112-05	PUSH SWITCH		
82	3C	*	T99-0539-05	MAGNET		
DM	3C		T42-0647-08	MOTOR ASSY		
FM	2C		T42-0637-05	DC MOTOR		
LM	3B		T42-0620-05	DC MOTOR		
PU	3D		T25-0029-05	OPTICAL PICKUP HEAD		
RH	1D		T30-0010-05	RECORD HEAD		

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SPECIFICATIONS

System	Mini disc digital audio system
Laser	Semiconductor laser
Recording method	Field modulation overwrite method
Sampling frequency	44.1 kHz
Playing rotation	Approx. 400 rpm ~ 900 rpm (CLV)
Audio compression	ATRAC (Adaptive TRansform Acoustic Coding)

Output level / impedance	1.2 V / 3.3 kΩ
Digital output	
Optical	- 15 dBm ~ - 21 dBm (Wave length 660 nm)
Headphone output	6.0 mW (16 Ω)
Input sensitivity / impedance	300 mV / 22 kΩ or more

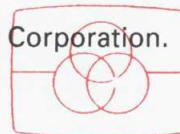
General

Pawer consumption	35 W
Dimensions	W: 270 mm (10 - 5 / 8") H: 74 mm (2 - 15 / 16") D: 326 mm (12 - 13 / 16")
Weight (Net)	4.4 kg (9.7 lb)

Note:

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

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Note :

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the General Market (M) 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.

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