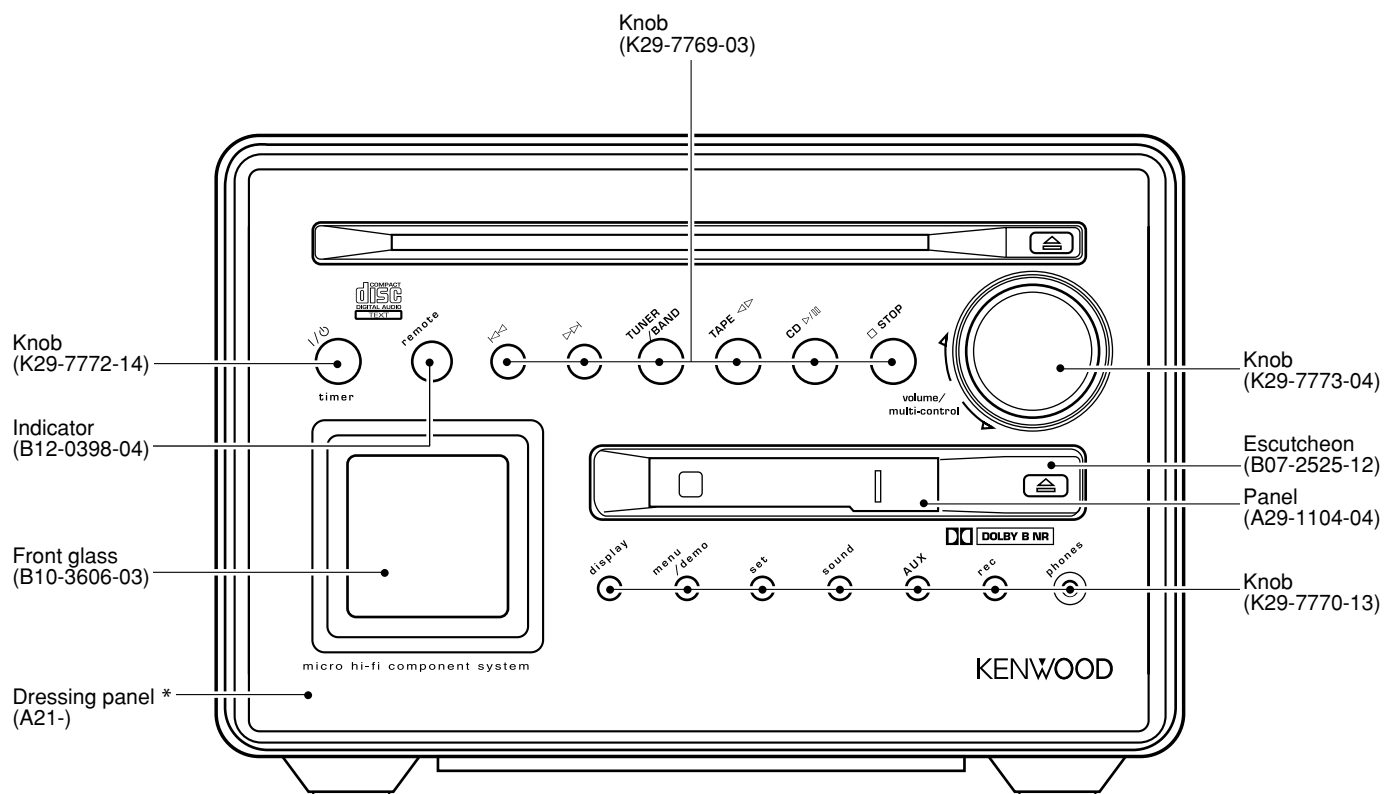


RXD-M52-L

SERVICE MANUAL

(HM-532-L)

Although this service manual is described MD circuit description, it is no concern with RXD-M52(deck version).



*** Refer to parts list on page 27.**

In compliance with Federal Regulations, following are reproduction 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.



RXD-M52

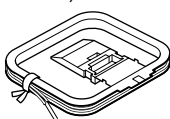
CONTENTS / ACCESSORIES / CAUTIONS

Contents

CONTENTS / ACCESSORIES / CAUTIONS	2	PC BOARD	9
EXTERNAL VIEW	3	SCHEMATIC DIAGRAM	13
CIRCUIT DESCRIPTION	4	EXPLODED VIEW	25
ADJUSTMENT	7	PARTS LIST	27
PARTS DESCRIPTIONS	8	SPECIFICATIONS	Back cover

Accessories

AM loop antenna (1)
(T90-0852-05)



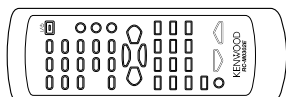
FM indoor antenna (1)
(T90-0858-05)



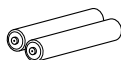
Feet for speaker (8)
(J02-0624-08)



Remote control unit (1)
(A70-1401-05): KMX.....RC-M0302
(A70-1403-05): TEH.....RC-M0302E



Batteries (R6/AA) (2)

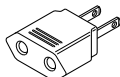


Speaker cords(2)
(E30-5828-05)



Battery cover (A09-1161-08)

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



* Use to adapt the plug on the power cord to the shape of the wall outlet.
(Accessory only for regions where use is necessary)

System configuration

SYSTEM	MAIN UNIT	DESTINATION	SPEAKER	COLOR
HM-532-L	RXD-M52-L	KETMXH	LS-M52-L	BLUE

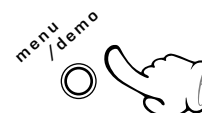
Cautions

Operation to reset

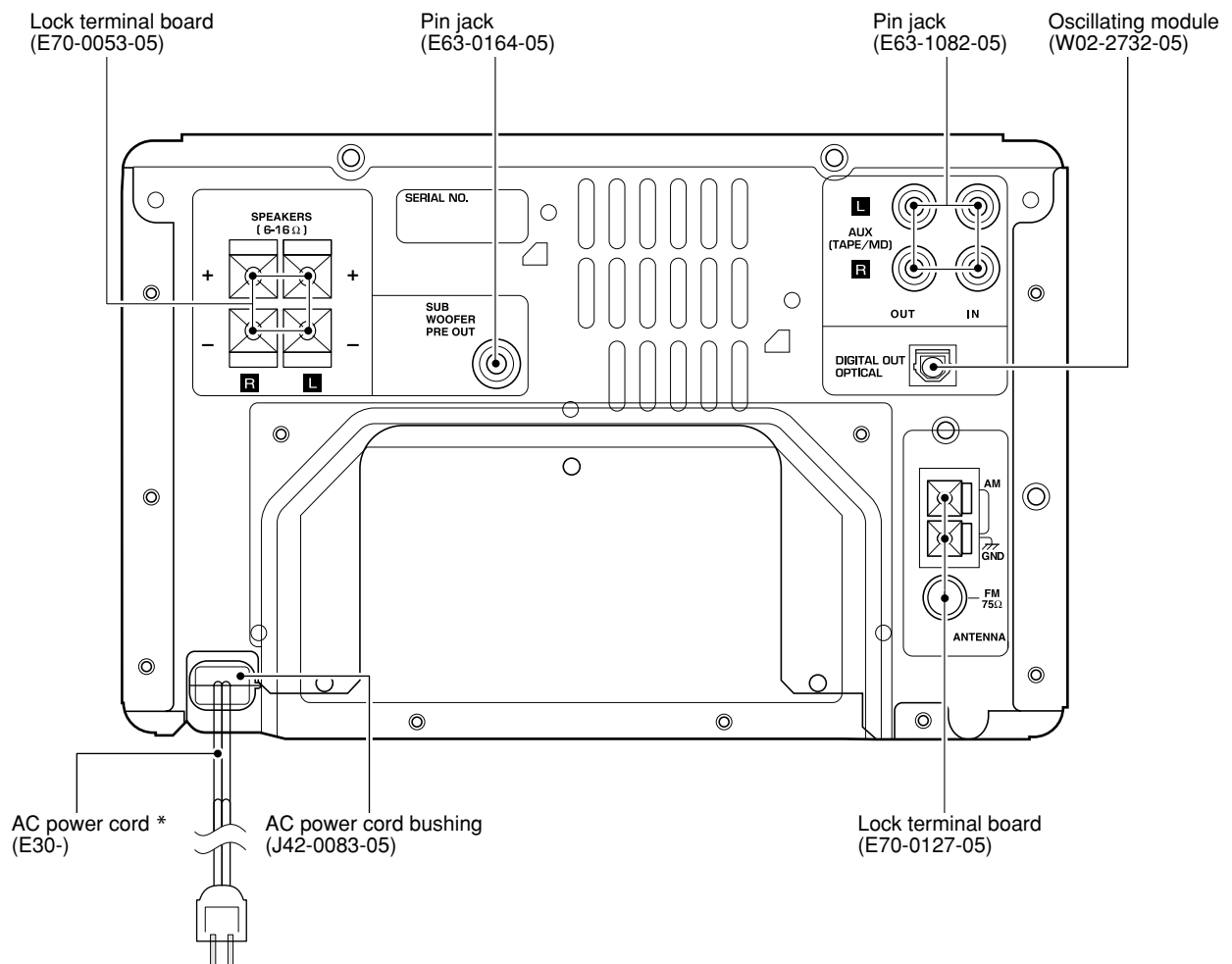
The microcomputer may fall into malfunction (impossibility to operate, erroneous display, etc.) when the power cord is unplugged while unit is ON or due to an external factor. In this case, execute the following procedure to reset the microcomputer and return it to normal condition.

- Please note that resetting the microcomputer clears the contents stored in and it returns to condition when it left the factory.

Unplug the power cord from the power outlet then, while holding the menu/demo key depressed, plug the power cord again.



EXTERNAL VIEW



* Refer to parts list on page 27.

CIRCUIT DESCRIPTION

1. Initializing the CD/CASSETTE Receiver

1-1 Initialization Method

The CD/CASSETTE receiver will be initialized when you pressed [SOUND] key and turn the AC on.

1-2 Contents of Initialization

CD disc will be ejected from CD mechanism after initialized.

2. Conditions according to the Destination

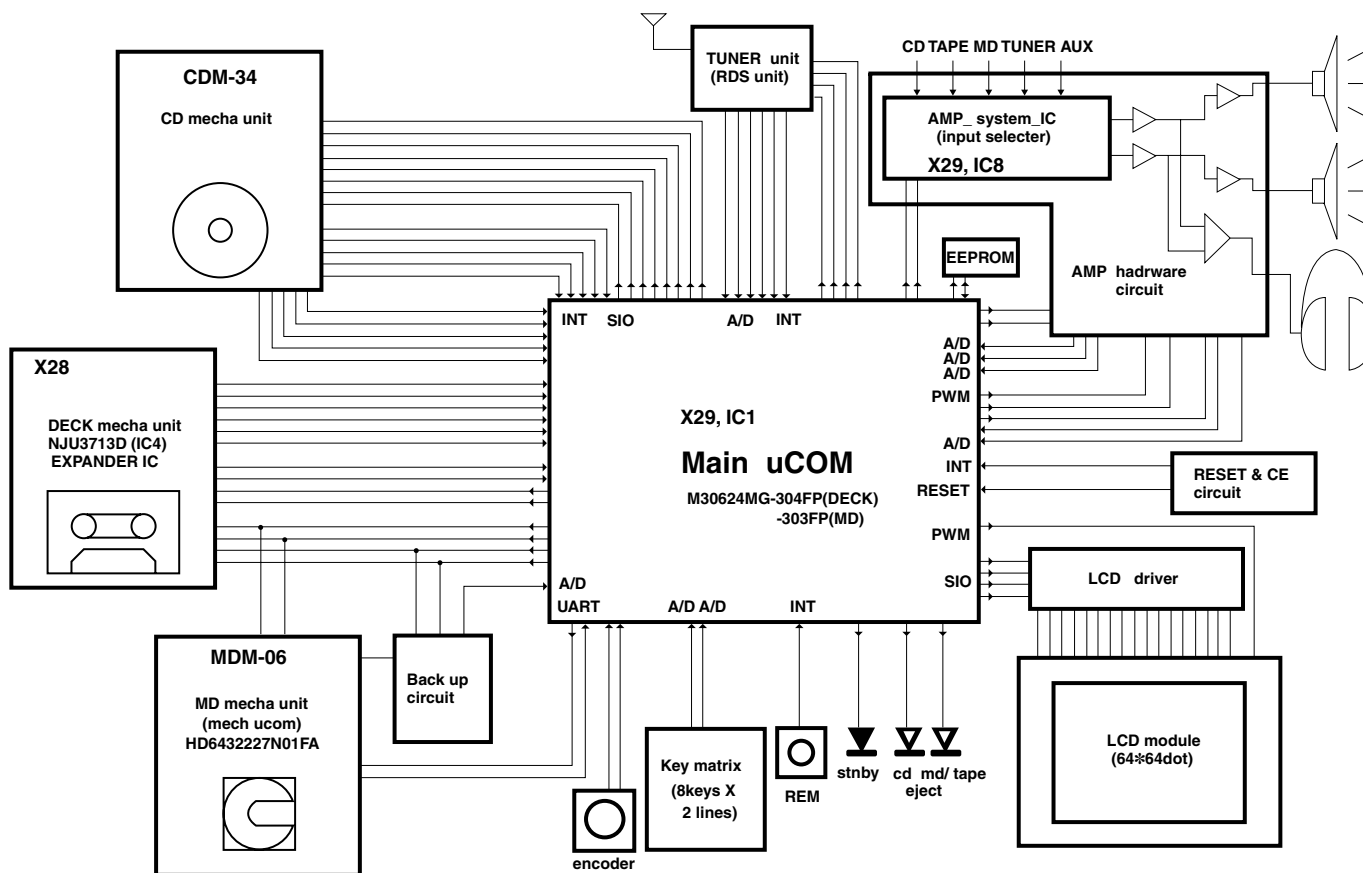
() Port of Microprocessor

UNIT	DESTI-NATION	DESTINATION SW			BAND	RECEIVING FREQUENCY RANGE	CHANNEL SPACE	IF	RF	EMPHASIS
		3 (40Pin)	2 (39Pin)	1 (38Pin)						
K,P	KI	0	0	0	FM	87.5MHz~108.0MHz	100kHz	+10.7MHz	25kHz	1
					AM	530kHz~ 1700kHz	10kHz	+450kHz	10kHz	0
M	E1	0	0	1	FM	87.5MHz~108.0MHz	50kHz	+10.7MHz	25kHz	0
					AM	531kHz~ 1602kHz	9kHz	+450kHz	9kHz	0
E,T	E3 (RDS)	1	1	0	FM	87.5MHz~108.0MHz	50kHz	+10.7MHz	25kHz	0
					AM	531kHz~ 1602kHz	9kHz	+450kHz	9kHz	0

3. Microprocessor :M30624MG-303FP(MD version)

:M30624MG-304FP(DECK version)

3-1 Microprocessor periphery block diagram



CIRCUIT DESCRIPTION

3-2 Pin Description of Microprocessor

Pin No.	Pin Name	I/O	Description
1	8SW2	I	Detection port of 8cm disc for CD mechanism.
2	SCLK	O	Clock output to DSP IC(X29,IC9).
3	SENS	I	Sense input port from DSP IC(X29,IC9).
4	FAN/DA	O	Control port of fan motor.
5	DATA	O	Data output to DSP IC(X29,IC9).
6	XRST	O	Reset output to DSP IC(X29,IC9).
7	CLOCK	O	Clock output to DSP IC(X29,IC9).
8	BYTE	-	Connected to ground.
9	CNVSS	-	Connected to ground.
10	XTIN	I	Clock input(32.768kHz).
11	XTOUT	O	Clock output(32.768kHz).
12	RESET	I	Reset signal input.
13	XOUT	O	Main clock output(1MHz).
14	VSS	-	Connected to ground.
15	XIN	I	Main clock input(1MHz).
16	VCC	-	Power supply.
17	NMI	-	Power supply.
18	u-COM CE	I	Detection port of AC off.
19	REM	I	Input port of remote control signal.
20	SCOR	I	Input port of sub code synchronized signal.
21	STBY RED	O	Standby LED(red) control terminal.
22	LCD BKLT	O	Control terminal of LCD back light.
23	STBY GR	O	Standby LED(green) control terminal.
24	LED CD	O	LED(CD) control terminal.
25	LED MD/TAPE	O	LED(MD/TAPE) control terminal.
26	CD XLAT	O	Latch output to DSP IC(X29,IC9).
27	ENC A	I	Input port of volume encoder.
28	ENC B	I	Input port of volume encoder.
29	MD RXD	I	Data input from MD mechanism microprocessor.
30	MD TXD	O	Transmission data output to MD mechanism microprocessor.
31	LCD SI	O	Data output to LCD driver.
32	LCD AO	O	AO control to LCD driver.
33	LCD SCL	O	Clock output to LCD driver.
34	LCD RST	O	Reset output to LCD driver.
35	SMK M/D	I	Discrimination port for deck and MD.
36	SQSO	I	Data input for CD sub Q data.
37	SQCK	O	Clock output for CD sub Q data.
38-40	SMK1-3	I	Discrimination port of destination for TUNER.
*41	STB	O	Strobe output to NJU3713D(X28,IC4).
42	W/R	O	Unused.
43	SDA	I/O	E2PROM data.
44	SCL	O	E2PROM clock output.
*45	OP SW	I	Input port of open switch for deck(deck version only).
46	LCD CSI	O	CE output to LCD driver.
*47	CL SW	I	Input port of close switch for deck(deck version only).
*48	PH SW	I	Input port of photo sensor for deck(deck version only).
*49	REC F SW	I	Deck forward switch input(deck version only).
*50	HALF SW	I	Input port of half switch for deck(deck version only).
*51	PLAY SW	I	Input port of play switch for deck(deck version only).
*52	TYPE SW	I	Detection port for tape type(Normal/CrO2).
*53	REC R SW	I	Deck reverse switch input(deck version only).
54	SBUSY	-	Unused.
55	SDATA	-	Unused.
56	RDS DATA	I	RDS data input(E/T type only).
57	TMUTE	O	TUNER muting control.
58	SD	I	Detection terminal of SD signal for TUNER.
59	ST	I	Detection terminal of stereo signal for TUNER.
60	PLL DATA	O	Data output to PLL IC.
61	PLL CLK	O	Clock output to PLL IC.
62	VCC	-	Power supply.
63	PLL CE	O	PLL chip enable.
64	VSS	-	Connected to ground.
65	PLL DO	I	PLL IF count input.
66	EMP/MONO	O	Control port of DE-emphasis.

CIRCUIT DESCRIPTION

Pin No.	Pin Name	I/O	Description
67	AMUTE	O	Audio muting control.
68	SPRLY	O	Speaker relay control.
69	PWRRLY	O	Power relay control.
70	NC	-	Disconnected.
71	HPRLY	O	Relay control terminal for headphones.
72	HPDET	I	Detection terminal of headphones.
73	EVR CLK	O	Clock output to sound controller(X29,IC6).
74	EVR DATA	O	Data output to sound controller(X29,IC6).
75	RDS CLK	I	RDS clock input(E/T type only).
76	BACK CHK/ DECK SLT CL	O	Detection port of back up voltage for MD mechanism. (MD version) Control port of slot closing for deck. (Deck version)
77	BACK ON/ DECK SLT OP	O	Power on for MD mechanism. (MD version) Control port of slot opening for deck.(Deck version)
78	MD RST/DECK CLK	O	Reset of MD mechanism and the clock of expander IC for deck.
79	MD CE/DECK DATA	O	CE of MD mechanism and the data of expander IC for deck.
80	MSTOP	I	Detection port of loading end for CD mechanism.
81	LD ON	O	Control port of laser on.
82	SPEED	O	Play back output port of hi-speed for CD.
83	DC OFF	O	Power control of system IC(X29,IC10) for CD.
84	LOAD OUT	O	Control port of loading out for CD mechanism.
85	LOAD IN	O	Control port of loading in for CD mechanism.
86	V/H	O	Control port of vertical and horizontal for CD. V/H version only
87	DINSW	I	Detection port of disc in for CD.
88	8SW1	I	Detection port of 8cm disc for CD.
89	XY SW	I	Input port of sensor for vertical and horizontal. V/H version only
90	PROT	I	Detection port of current protection.
91	PROT TEMP	I	Detection port of temperature compensating for protection.
92	AIN LEVEL	I	Input port of audio signal.
93	BACKV	I	Input port of back up voltage for MD.
94	RDS SLEVEL	I	RDS signal level input(E/T type only).
95	KRO	I	Key return signal input.
96	AVSS	-	Connected to ground.
97	KR1	I	Key return signal input.
98	AVREF	-	A/D,D/A reference voltage.
99	AVCC	-	A/D,D/A power supply.
100	12SW	I	Detection port of 12cm disc for CD.

* Deck version only.

4. CD Test Mode

4-1 Entering the Test Mode

To enter the test mode, press the CD [PLAY/PAUSE] key and turn the AC on.

4-2 Cancelling the Test Mode

Turn the AC off.

4-3 Keys and Operation in the Test Mode

KEYS	LCD	OPERATION
CD	CD TEST-03	Tracking servo off.
PLAY/PAUSE	CD TEST-05	All servo on.
menu/demo	—	FB operation when servo on. Sled in when servo off.
sound	CD TEST-22 HI	Hi speed (CD servo) when stop mode
	CD TEST-22	Normal speed (CD servo) when stop mode.
set	CD TEST-05	FF operation when servo on. Sled out when servo off.

5. Cassette Deck Test Mode

5-1 Entering the Test Mode

5-1-1 Tape Check Mode

- Turn the AC on with pressing the TAPE[PLAY] key.

5-1-2 Mechanism Check Mode

- Turn the AC on with pressing the TAPE[PLAY] and [menu] keys simultaneously.

5-2 Cancelling the Test Mode

Turn the AC off

5-3 Keys and Operation in the Test Mode

TEST MODE	KEYS	OPERATION
①Mecha.Test Mode	DISPLAY	Change-over the test mode indication.
	menu/demo	Loading Test(Load in)
	sound	Loading Test(Load out)
	SLEEP (remote control)	Change-over the vertical and horizontal for LCD.
②Tape Check Mode	rec	4seconds recording
	set	Change-over the dolby on/off.
	sound	Change-over the beat cancel on/off.

ADJUSTMENT

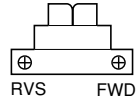
CD section

NO.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	CD PLAYER SETTINGS	ALIGNMENT	ALIGN FOR	FIG.
TEST MODE : While pressing the CD PLAY/PAUSE key, plug the power cord into the AC power wall output. Load the TEST DISC.							
[1]	LASER CURRENT CHECK	Test disc type 4	Connect the DC voltmeter between ③ and ④ of CN4 on X29.	Press the PLAY/PAUSE key to check that the display is 03 or 05.	—	50±20mA	
[2]	FOCUS ERROR BIAS (Set up vertically)	Test disc type 4	Connect an oscilloscope as follows. CH1:RF(X29,CN4, ①) GND:VC(X29,CN4, ②)	Press the PLAY/PAUSE key . Confirm that the display is 05.	FE BIAS VR 1 (V/H version only)	Optimum eye pattern	
[3]	FOCUS ERROR BIAS (Set up horizontally)	Test disc type 4	Connect an oscilloscope as follows. CH1:RF(X29,CN4, ①) GND:VC(X29,CN4, ②)	Press the PLAY/PAUSE key . Confirm that the display is 05.	FE BIAS VR 2	Optimum eye pattern	

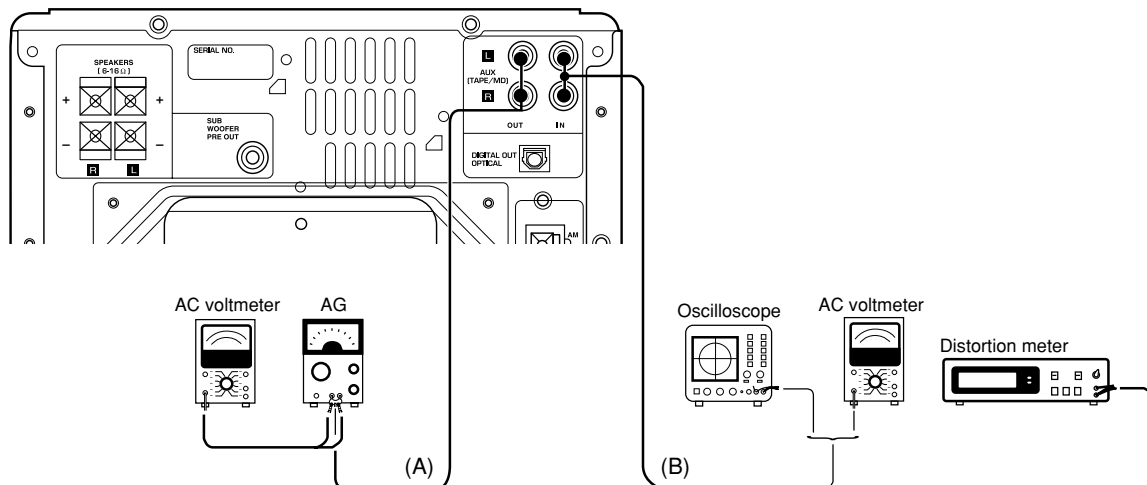
Note:

- Type 4disc: SONY YEDS-18 Test Disc or equivalent.
- Keep the step of adjustment.

CASSETTE DECK

NO.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	CASSETTE DECK SETTINGS	ALIGNMENT	ALIGN FOR	FIG.
Unless otherwise specified, set the respective switches as follows: TAPE: NORMAL INPUT: AUX IN OUTPUT: AUX OUT 0dBm=0.775V							
I . Cassette mechanism (REC/PB head adjustment)							
[1]	Demagnetization and cleaning	—	—	(POWER OFF) demagnetization (PLAY) cleaning	REC/PB head erase head capstan pinch roller	Demagnetize the REC/PB head by head eraser. Clean the REC/PB head ,eraser head, capstan and pinch roller with a cotton swab immersed in alcohol.	
[2]	REC/PB head azimuth	TCC-153 MTT-114 10kHz,-10dB	(B)	PLAY	 RVS FWD	Adjust the output to maximum and adjust the azimuth adjustment screw for the Lissajous waveform pattern of the oscilloscope to become close to a 45° straight line.	
II . Capstan motor adjustment							
[1]	Tape speed (NORMAL)	TCC-110 MTT-111 3kHz	(B)	PLAY	VR. inside motor	Adjust so that the frequency 3kHz at the center of the tape.	
III . PC board adjustment							
[1]	Playback level	TCC-130	(B)	PLAY	VR1(Lch),VR2(Rch)	-2.5dBm	
[2]	Bias current	TCC-108 12.5kHz -24dBm (A)	(B)	REC → PLAY	VR3(Lch) VR4(Rch)	-24dBm	

Measurement equipment connection



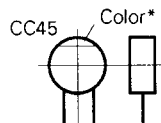
RXD-M52

PARTS DESCRIPTIONS

CAPACITORS

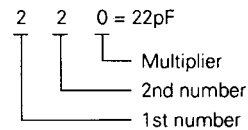
CC	45	TH	1H	220	J
1	2	3	4	5	6

- 1 = Type ... ceramic, electrolytic, etc. 4 = Voltage rating
 2 = Shape ... round, square, ect. 5 = Value
 3 = Temp. coefficient 6 = Tolerance



• Capacitor value

- 010 = 1pF
 100 = 10pF
 101 = 100pF
 102 = 1000pF = 0.001μF
 103 = 0.01μF



• Temperature coefficient

1st Word	C	L	P	R	S	T	U
Color*	Black	Red	Orange	Yellow	Green	Blue	Violet
ppm/°C	0	-80	-150	-220	-330	-470	-750

2nd Word	G	H	J	K	L
ppm/°C	±30	±60	±120	±250	±500

Example : CC45TH = -470 ± 60ppm/°C

• Tolerance (More than 10pF)

Code	C	D	G	J	K	M	X	Z	P	No code
(%)	±0.25	±0.5	±2	±5	±10	±20	+40 -20	+80 -20	+100 -0	More than 10μF -10 ~ +50 Less than 4.7μF -10 ~ +75

(Less than 10pF)

Code	B	C	D	F	G
(pF)	±0.1	±0.25	±0.5	±1	±2

• Voltage rating

2nd word 1st word	A	B	C	D	E	F	G	H	J	K	V
0	1.0	1.25	1.6	2.0	2.5	3.15	4.0	5.0	6.3	8.0	-
1	10	12.5	16	20	25	31.5	40	50	63	80	35
2	100	125	160	200	250	315	400	500	630	800	-
3	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	-

• Chip capacitors

(EX) C C 7 3 F S L 1 H 0 0 0 J
 1 2 3 4 5 6 7

(Chip) (CH, RH, UJ, SL)

(EX) C K 7 3 F F 1 H 0 0 0 Z
 1 2 3 4 5 6 7

(Chip) (B, F)

Refer to the table above.

1 = Type
 2 = Shape
 3 = Dimension
 4 = Temp. coefficient
 5 = Voltage rating
 6 = Value
 7 = Tolerance

Dimension (Chip capacitors)

Dimension code	L	W	T
Empty	5.6 ± 0.5	5.0 ± 0.5	Less than 2.0
A	4.5 ± 0.5	3.2 ± 0.4	Less than 2.0
B	4.5 ± 0.5	2.0 ± 0.3	Less than 2.0
C	4.5 ± 0.5	1.25 ± 0.2	Less than 1.25
D	3.2 ± 0.4	2.5 ± 0.3	Less than 1.5
E	3.2 ± 0.2	1.6 ± 0.2	Less than 1.25
F	2.0 ± 0.3	1.25 ± 0.2	Less than 1.25
G	1.6 ± 0.2	0.8 ± 0.2	Less than 1.0

RESISTORS

• Chip resistor (Carbon)

(EX) R K 7 3 E B 2 B 0 0 0 J
 1 2 3 4 5 6 7

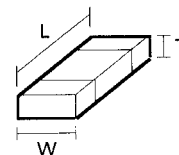
(Chip) (B, F)

• Carbon resistor (Normal type)

(EX) R D 1 4 B B 2 C 0 0 0 J
 1 2 3 4 5 6 7

- 1 = Type 5 = Rating wattage
 2 = Shape 6 = Value
 3 = Dimension 7 = Tolerance
 4 = Temp. coefficient

Dimension



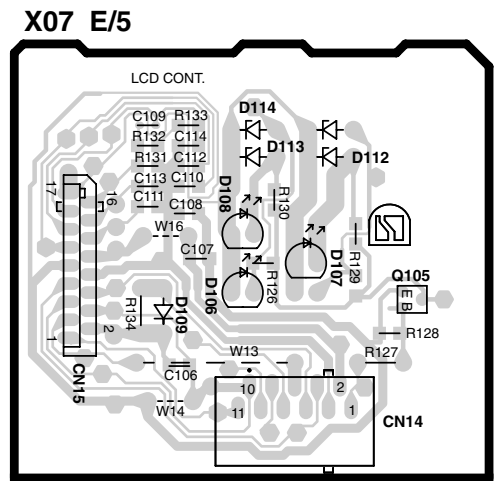
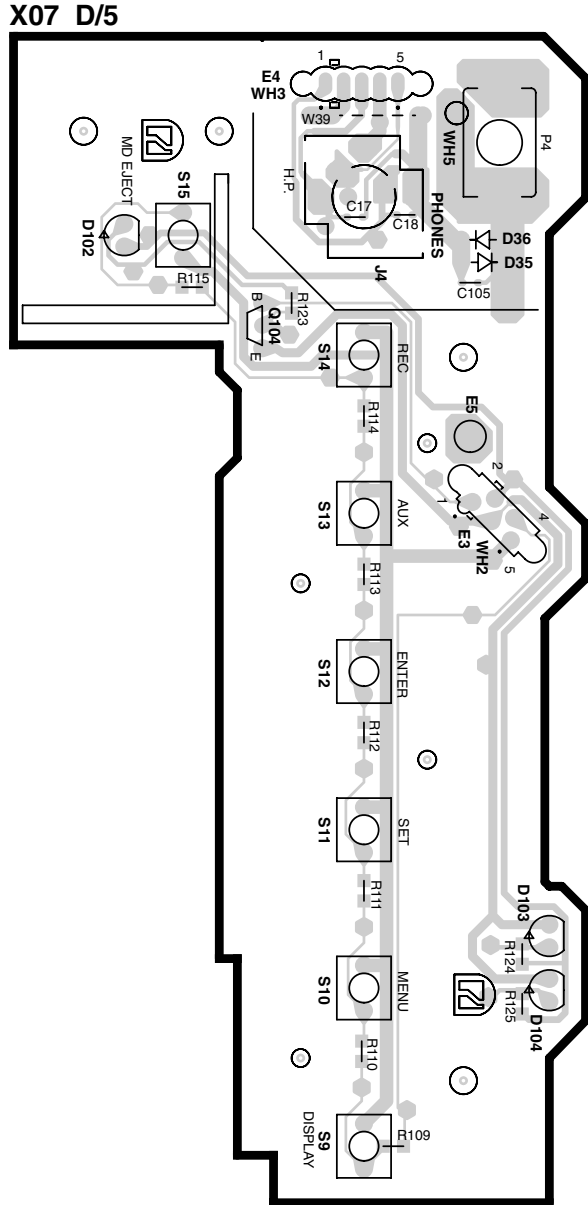
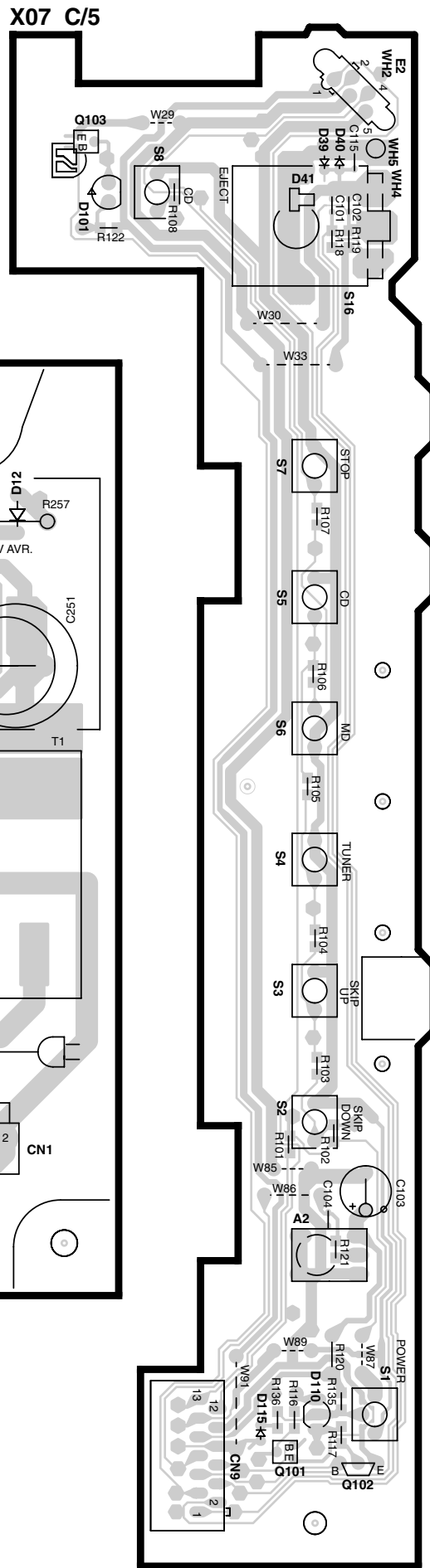
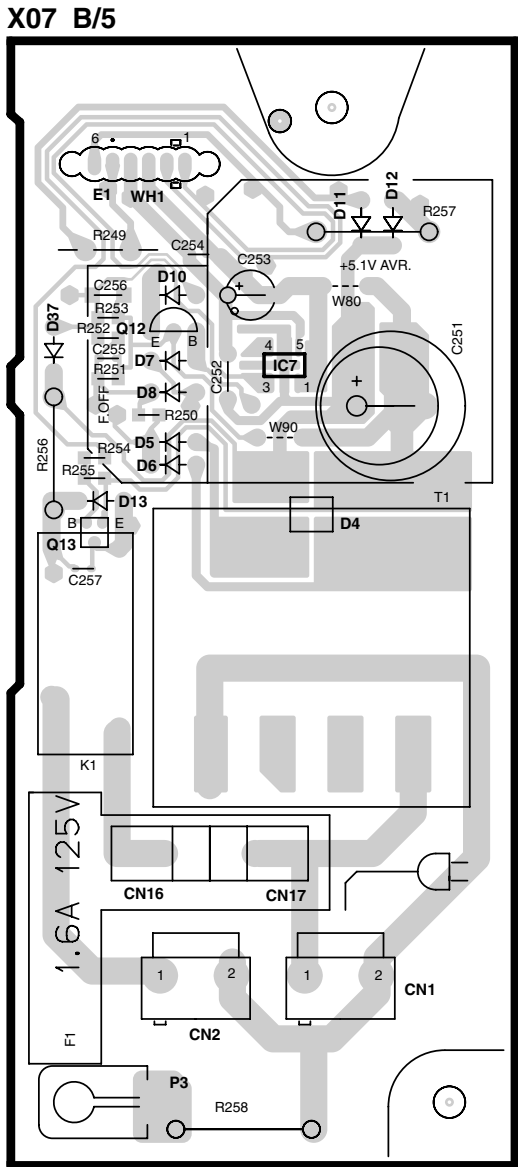
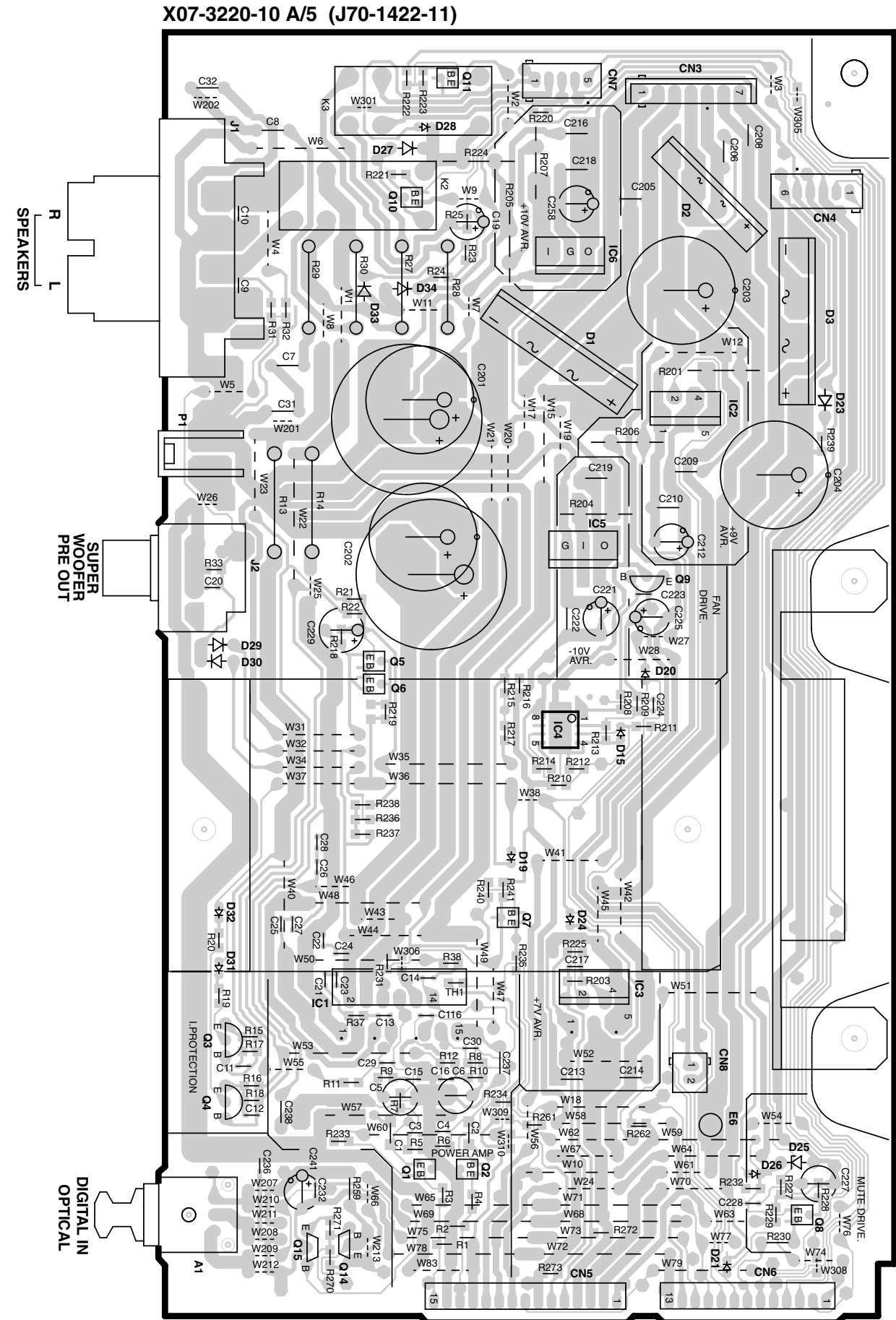
Dimension (Chip resistor)

Dimension code	L	W	T
E	3.2 ± 0.2	1.6 ± 0.2	1.0
F	2.0 ± 0.3	1.25 ± 0.2	1.0
G	1.6 ± 0.2	0.8 ± 0.2	0.5 ± 0.1

Rating wattage

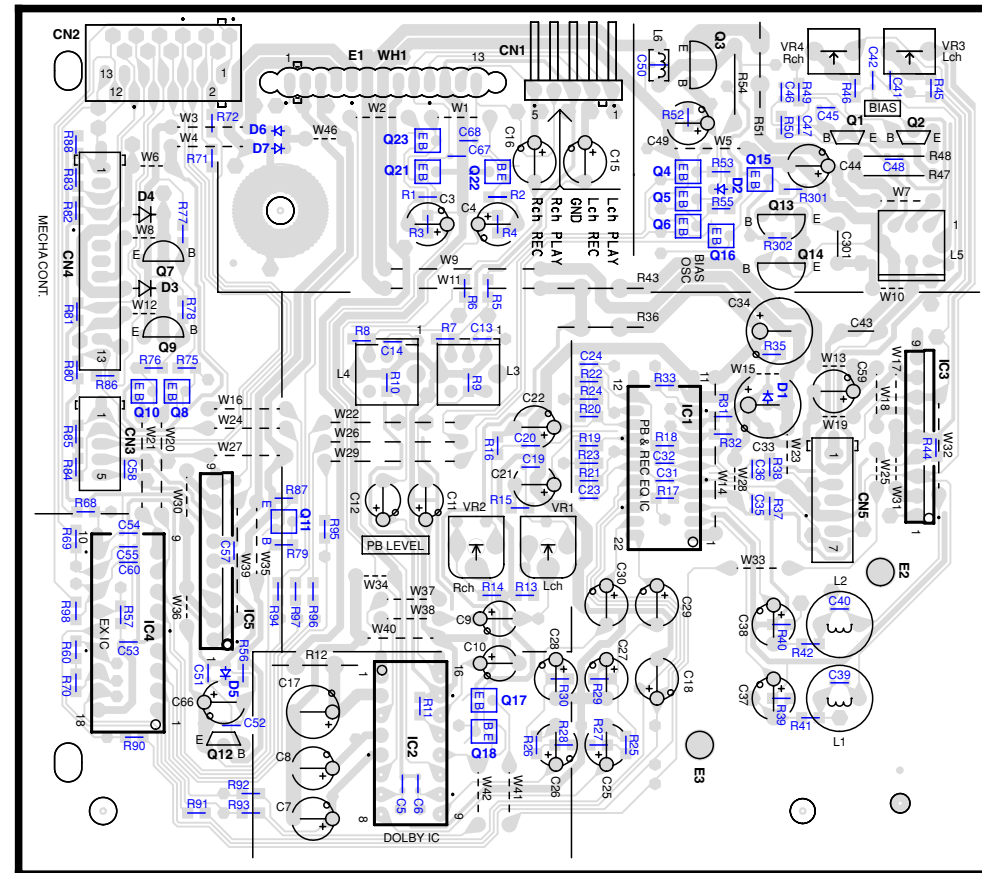
Code	Wattage	Code	Wattage	Code	Wattage
1J	1/16W	2C	1/6W	3A	1W
2A	1/10W	2E	1/4W	3D	2W
2B	1/8W	2H	1/2W		

PC BOARD (Component side view)

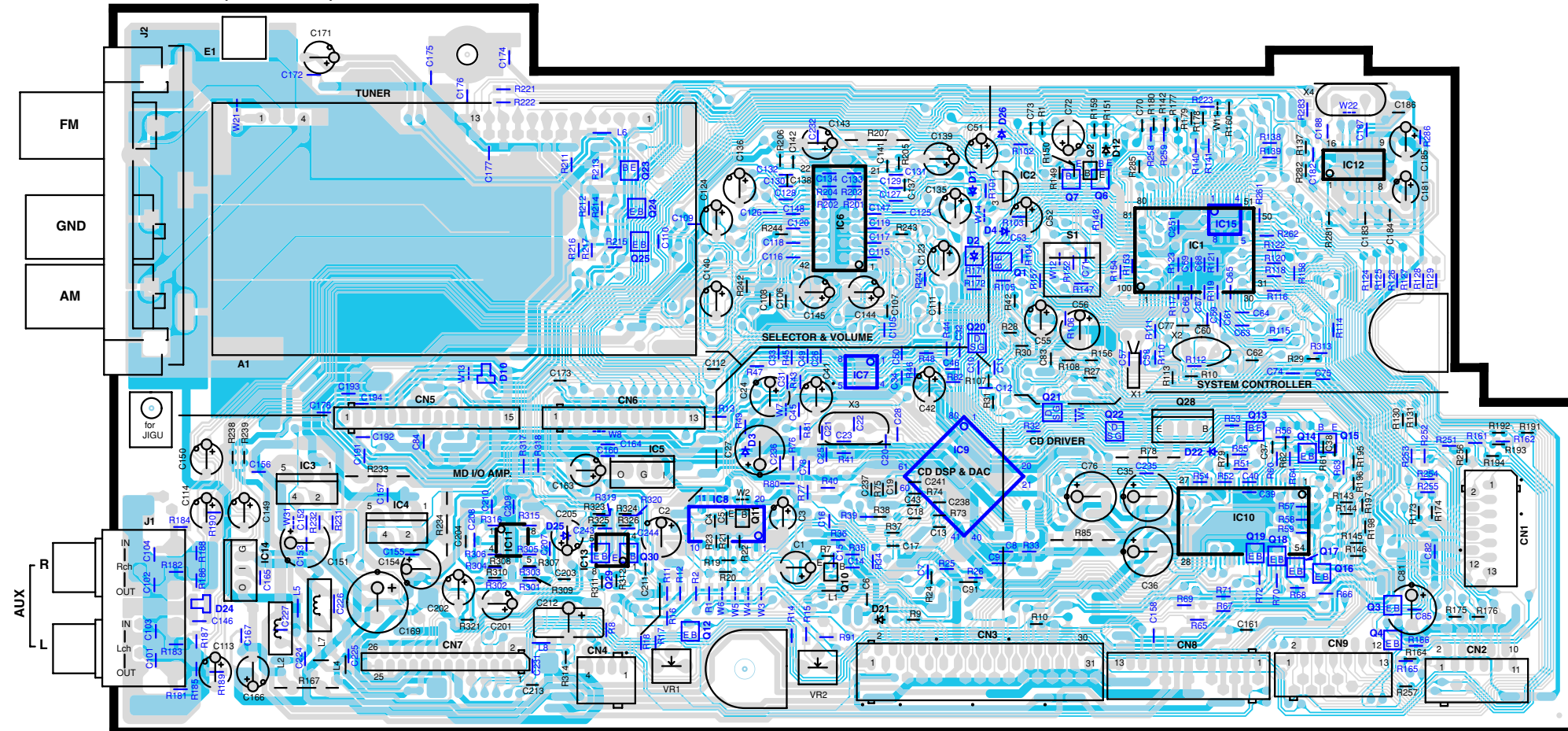


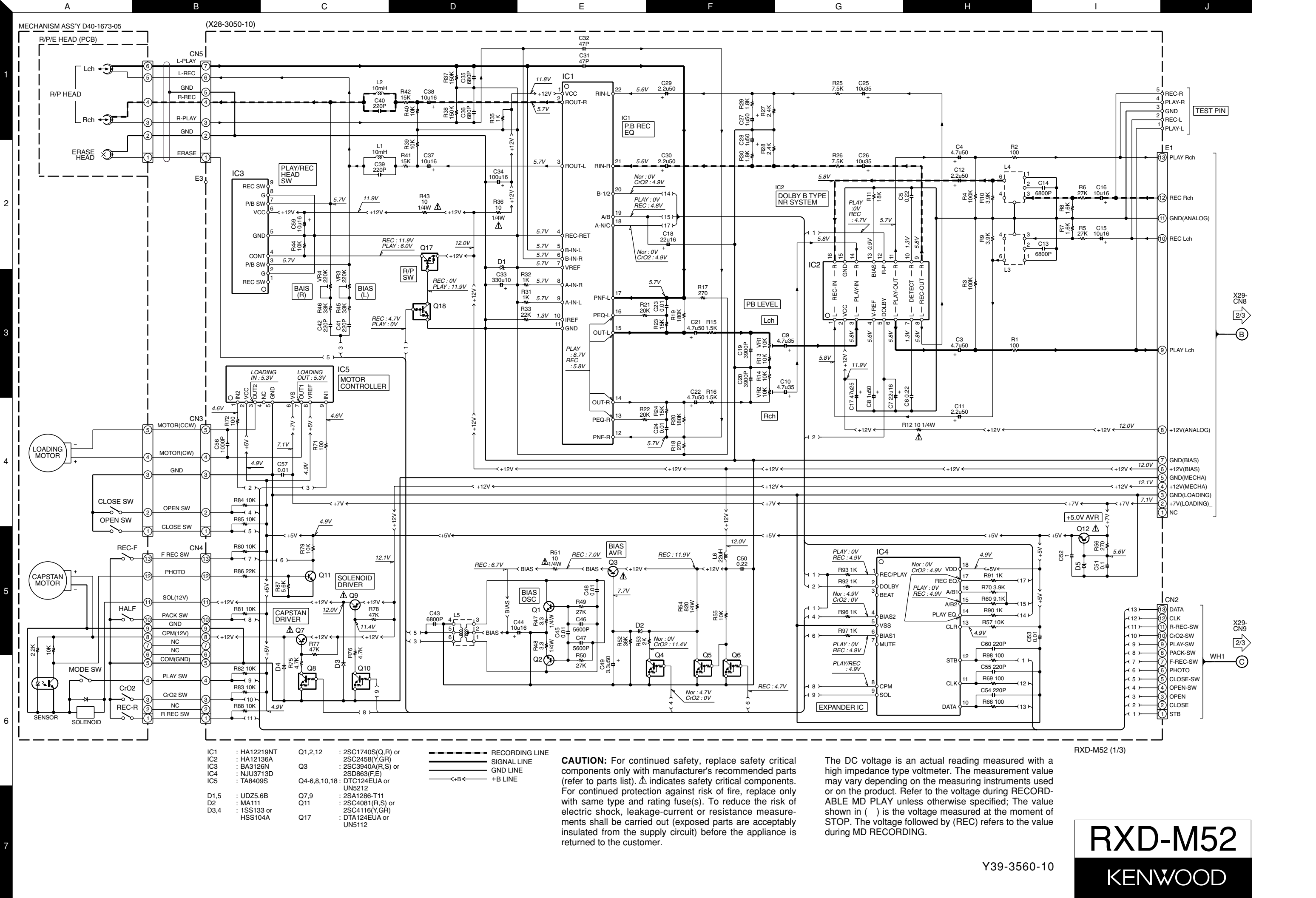
PC BOARD(Component side view)

X28-3050-10 (J70-1407-01)

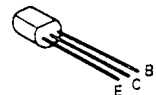


X29-2700-00 (J70-1405-11)

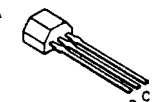




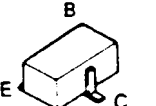
2SA1286-T11 2SD863
2SA992
2SC1845
2SC3940A



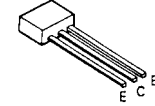
DTA124ESA 2SC2458
DTC124ESA
UN4112
2SA1048
2SC1740S



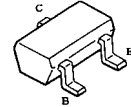
DTC143TUA 2SC4116
UN5216
2SA1576A
2SA1586



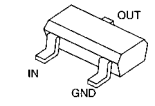
UN4212



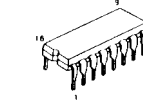
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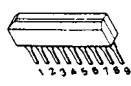
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DTC124EUA



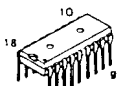
HA12136A



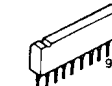
TA8409S



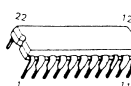
NJU3713D



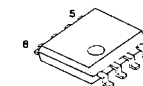
BA3126N



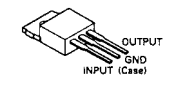
HA12219NT



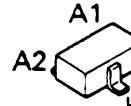
NJM2904M



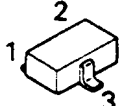
LM2940CT-5.0



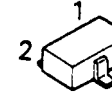
DAN202U



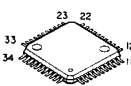
DA204U



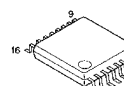
UN5212



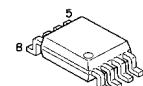
SI-3050C



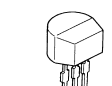
BU1923F



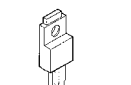
NJM2100M



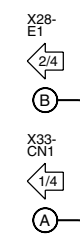
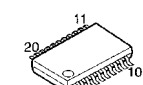
S-80840ANY



UPC2905HF



CXA1821M



DESTINATION	UNIT No.	②	③	④	⑤	A1	C107,108,117,118,152,165,167,169,252,254	C111,112	C139,140	C151,154	IC1	IC3,4	IC14	Q12,15	R16-18,63,64,116,147,241,242	R117,231,232,237,238	R118	R119	R120	R121	R122	R123	S1	VR1	W8,31
U.S.A.	K	0-11																							
GENERAL MARKET	M	0-21	NO			W02-2741																			
AUSTRALIA	X																								
U.K.	T			NO	YES																				
EUROPE	E	2-73	YES			W02-2742																	YES	YES	YES
KOREA	H																								

RD-VH5MD-L/S (X29-2702-71)																							
DESTINATION		UNIT No.	B	C	D	E	A1	C107,108,117,118,152,165,167,169,252,254	C111,112	C139,140	C151,154	IC1	IC3	IC4	IC14	Q12,15	R16-18,63,64,117,147,231,231,237,238	R116,241,242	R118,121,122	R119,120,123	S1	VR1	W8,31
COUNTRY	ABB.																						
U.K.	T,T2																						
EUROPE	E																						
KOREA	H	2-71	YES	NO	YES	W02-2742	YES	NO	4.7u50	100u10	M30624MG-303FP	SI-3025F	SI-3050F	YES	YES	YES	NO	YES	NO	YES	YES	NO	

DESTINATION		UNIT No.	Ⓑ	Ⓓ	Ⓔ	A1	C107,108,117, 118,152,169	C111,112,165, 167,252,254	C139, 140	C151, 154	IC1	IC3	IC4	IC14	Q12, 15	R16-18,63,64,116,119,120, 123,147,237,238,241,242	R117,118,121, 122,231,232	S1	VR1	W8,31
COUNTRY	ABB.																			
U.K.	T	2-72	YES	NO	W02-2742	YES	NO	2.2u100	100u10	M30624MG-303FP	SI-3025F	SI-3050F	NO	NO	NO	NO	YES	NO	NO	NO
EUROPE	E																			
KOREA	H																			

RD-VH5MD-L/W/S (X29-2700-00)																						
DESTINATION		UNIT No.	Ⓑ	Ⓒ	Ⓓ	Ⓔ	A1	C107,108,117,118,152,165,167,169,252,254	C111,112	C139,140	C151,154	IC1	IC3	IC4	IC14	Q12,15	R16-18,63,64,117,119,120,123,147,231,232,238,239	R116,118,121,122,241,242	S1	VR1	W8,31	
COUNTRY	ABB.																					
JAPAN	J,J1,J3	0-00	NO	YES		W02-2740	YES	NO	4.7u50	100u10	M30624MG-303FP	SI-3025F	SI-3050F	YES	YES		YES	NO	YES	YES	NO	

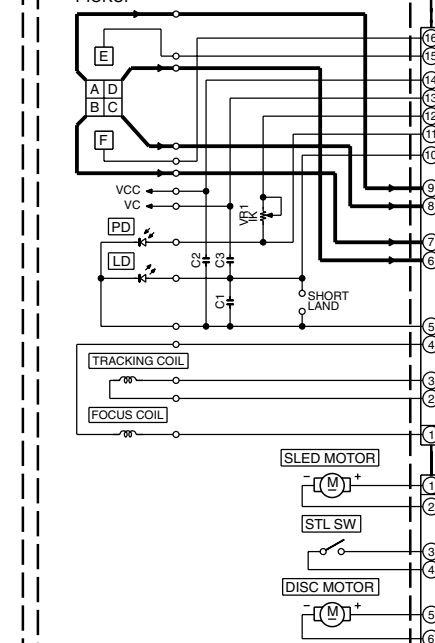
RD-IT2000MD-R (X29-2700-01)																						
DESTINATION		UNIT No.	Ⓑ	Ⓒ	Ⓓ	Ⓔ	A1	C107,108,117, 118,152,169	C111,112,165, 167,252,254	C139, 140	C151, 154	IC1	IC3	IC4	IC14	Q12, 15	R16-18,63,64,116,118,121, 122,147,238,239,241,242	R117,119,120, 123,231,232	S1	VR1	W8,31	
COUNTRY	ABB																					
JAPAN	J2	0-01	NO	YES	W02-2740		YES	NO	2.2u100	100u10	M30624MG-303FP	SI-3025F	SI-3050F	NO	NO	NO	YES	NO	NO	NO		

- IC1 : S-80840ANY
IC2 : S-80840ANY
IC3 : S-80840ANY
IC4 : S-80840ANY
IC5 : uPC2905HF or LM2940CT-5.0
IC6 : M62498AFP
IC7,11,13 : NJM2100M
IC8 : CXA1821M
IC9 : CXD3017Q
IC10 : BA5801FS
IC12 : BU1923F
IC14 : TA79005SB
Q1,4 : 2SC4081(R,S) or 2SC4116(Y,GR) or 2SA1576A(R,S) or 2SA1586(Y,GR)
Q2,16-19 : UN5212 or DTC124EUA
Q3,7,11 : UN5212 or DTC124EUA
Q6,15 : UN5212 or DTC124EUA
Q10 : 2SA1577(Q,R)
Q12 : UN5216 or DTC143TUA
Q13 : 2SC4213(B)
Q20-22 : 2SK2158
Q28 : 2SB1640
Q29,30 : DTC143TUA or UN5216
D1,4,21,22,26 : MA111
D2 : 1SS402
D3 : UDZ3.9B
D10 : DAN202U
D12 : UDZ5.1B
D24 : DA204U
D25 : UDZ2.7B

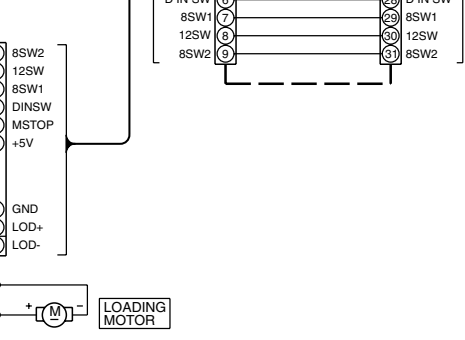
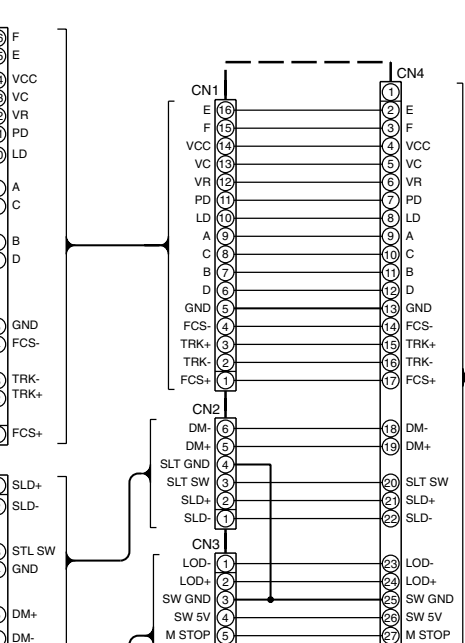
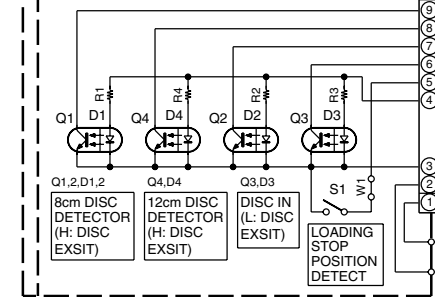
- RECORDING LINE
--- SIGNAL LINE
--- GND LINE
--- +B LINE
--- -B LINE

CD MECHANISM (D40-1674-05) / CDM-34(B)

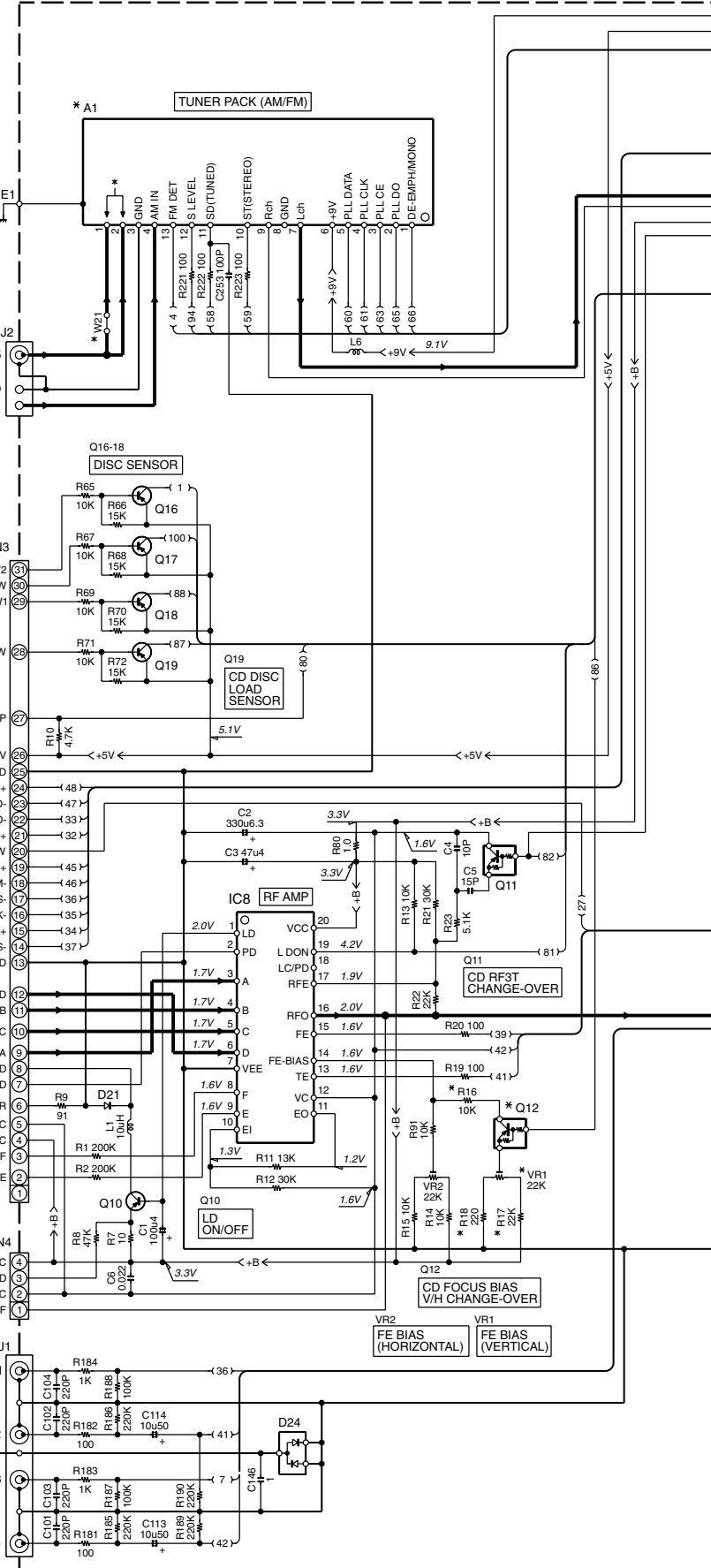
TRAVERSE UNIT (D40-1639-05)

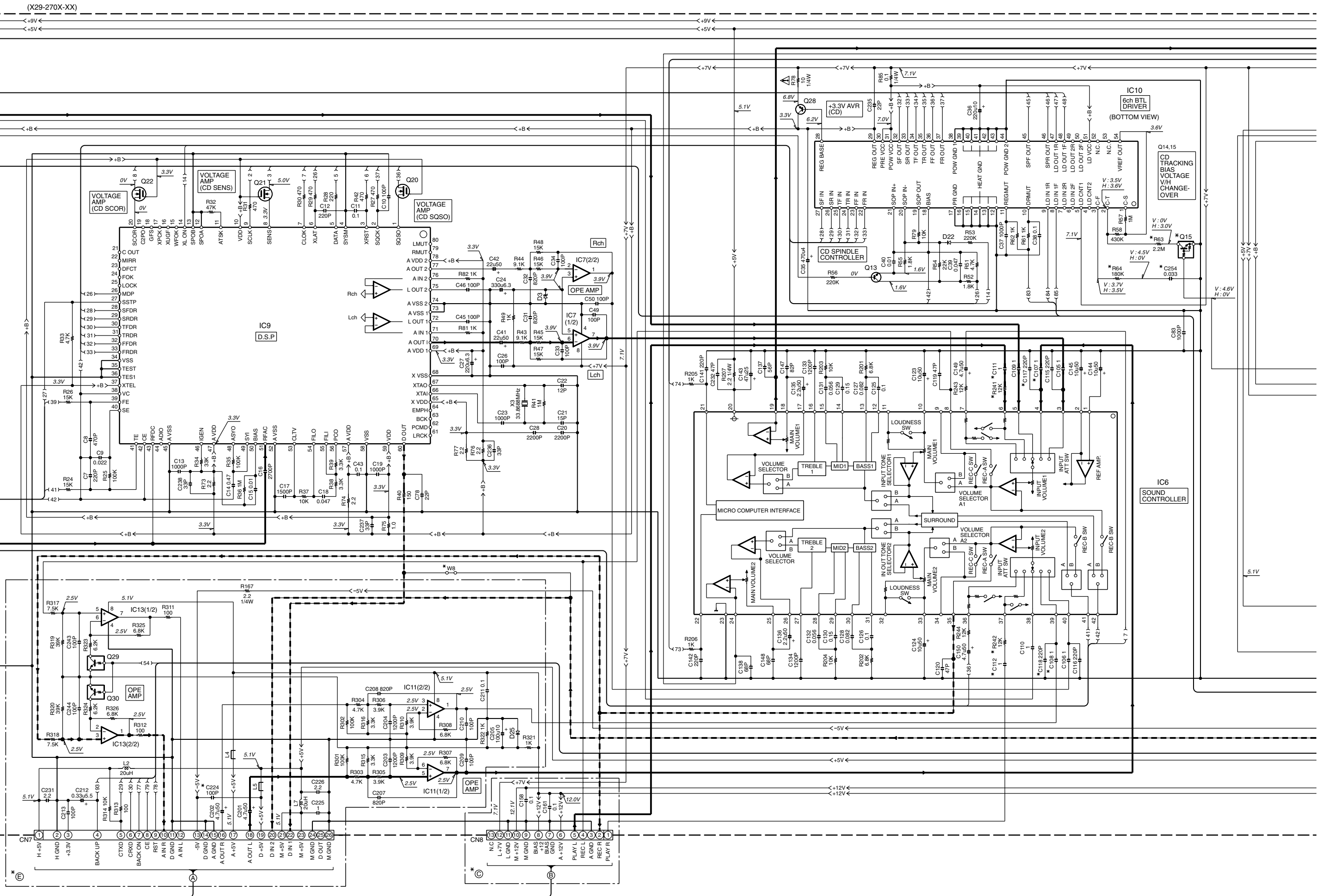


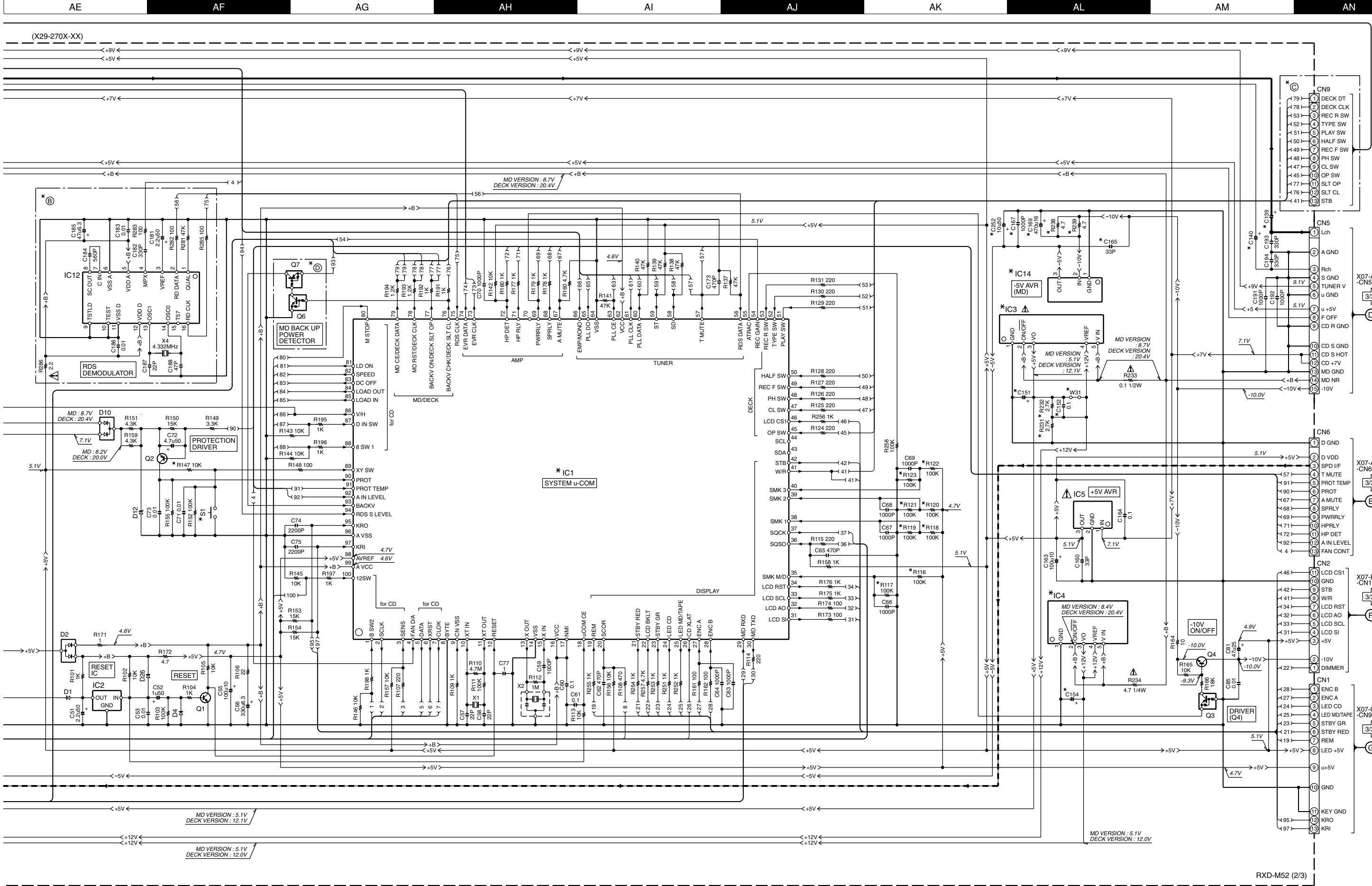
SW PCB (X29-2660-00)



(X29-270X-XX)



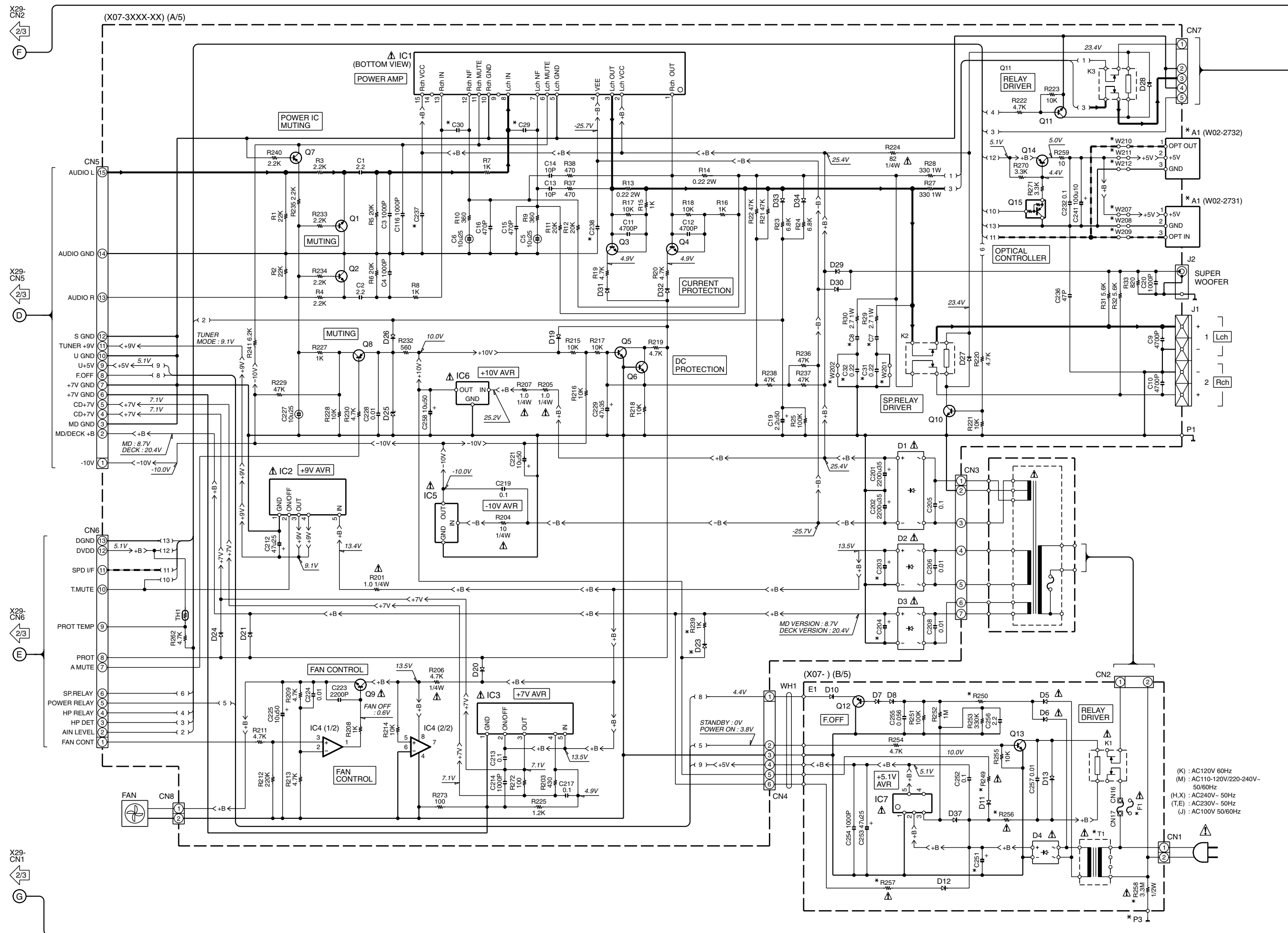


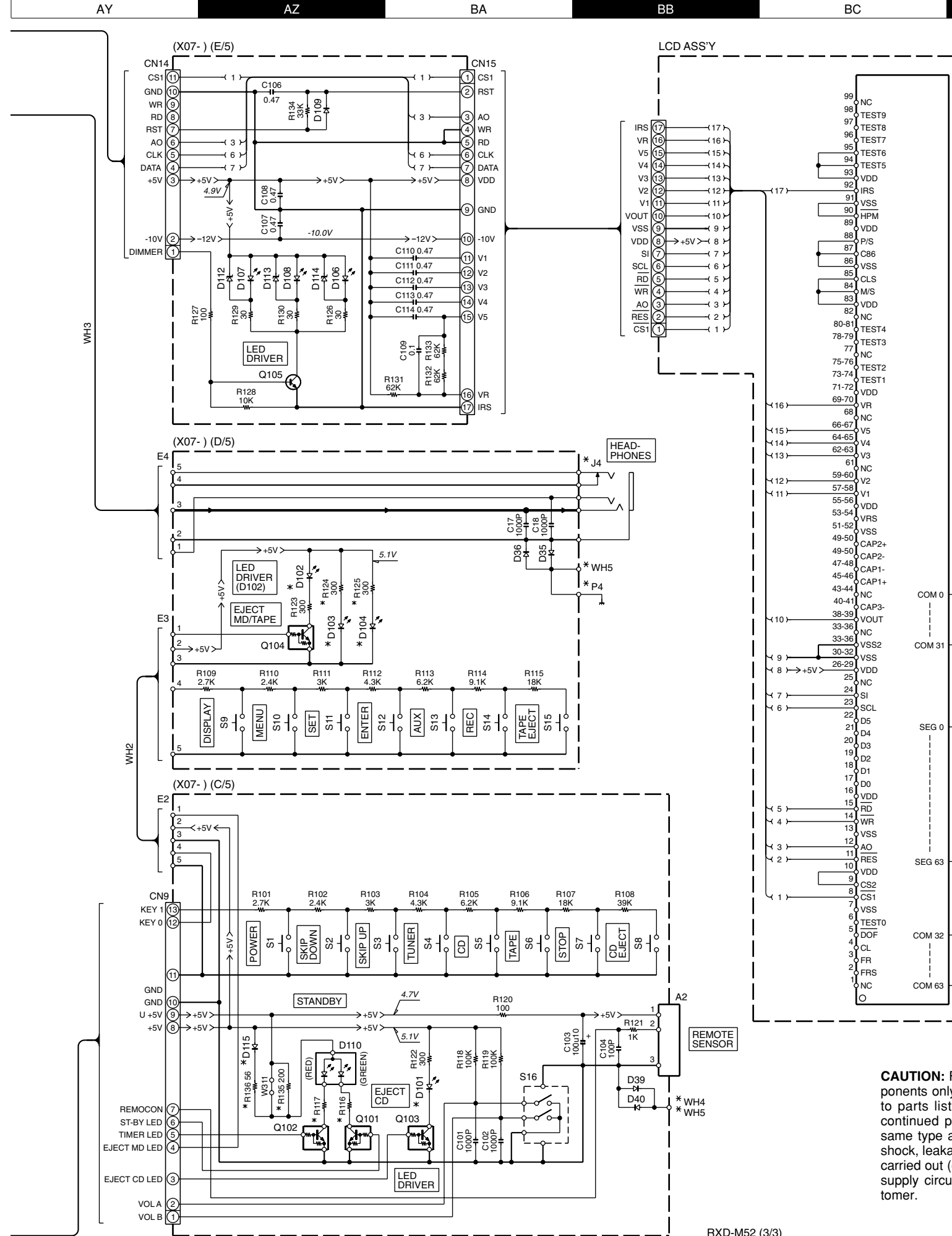


RXD-M52

Y39-3560-10

KENWOOD





RXD-M52 (3/3)

RXD-M52-L (X07-322X-XX)

DESTINATION	COUNTRY	ABB.	UNIT No.	T1	F1	R116	R117	R124, 125, 135, 136, 239	R249	R250	R256	R257	R258	P3	P4	C7, 8	C29, 30
U.S.A.	K	0-10	L07-2758-05	1.6A 125V						68K			YES	YES		0.1	10P
GENERAL MARKET	M	0-21	L07-2858-05	T800mA L 250V	220	1.2K		NO	100 1/4W	27K	10 1W	330 1W	NO	NO	NO	0.22	56P
AUSTRALIA	X																
U.K.	T																
EUROPE	E	2-71															
KOREA	H																

DESTINATION	COUNTRY	ABB.	UNIT No.	C31, 32	C203	C204	C237, 238	C251	D23, 103, 104, 115	D101, 102	A1	W201, 202	W207-209	W210-212, 311	WH4	WH5	J4
U.S.A.	K	0-10	NO	4700u16		100P	3300u16					YES					
GENERAL MARKET	M	0-21		3300u25		220P	3300u10		NO	B30-2541-05	W02-2732-05	NO	NO	YES	NO	YES	E11-0924-05
AUSTRALIA	X																
U.K.	T																
EUROPE	E	2-71		4700u16													
KOREA	H																

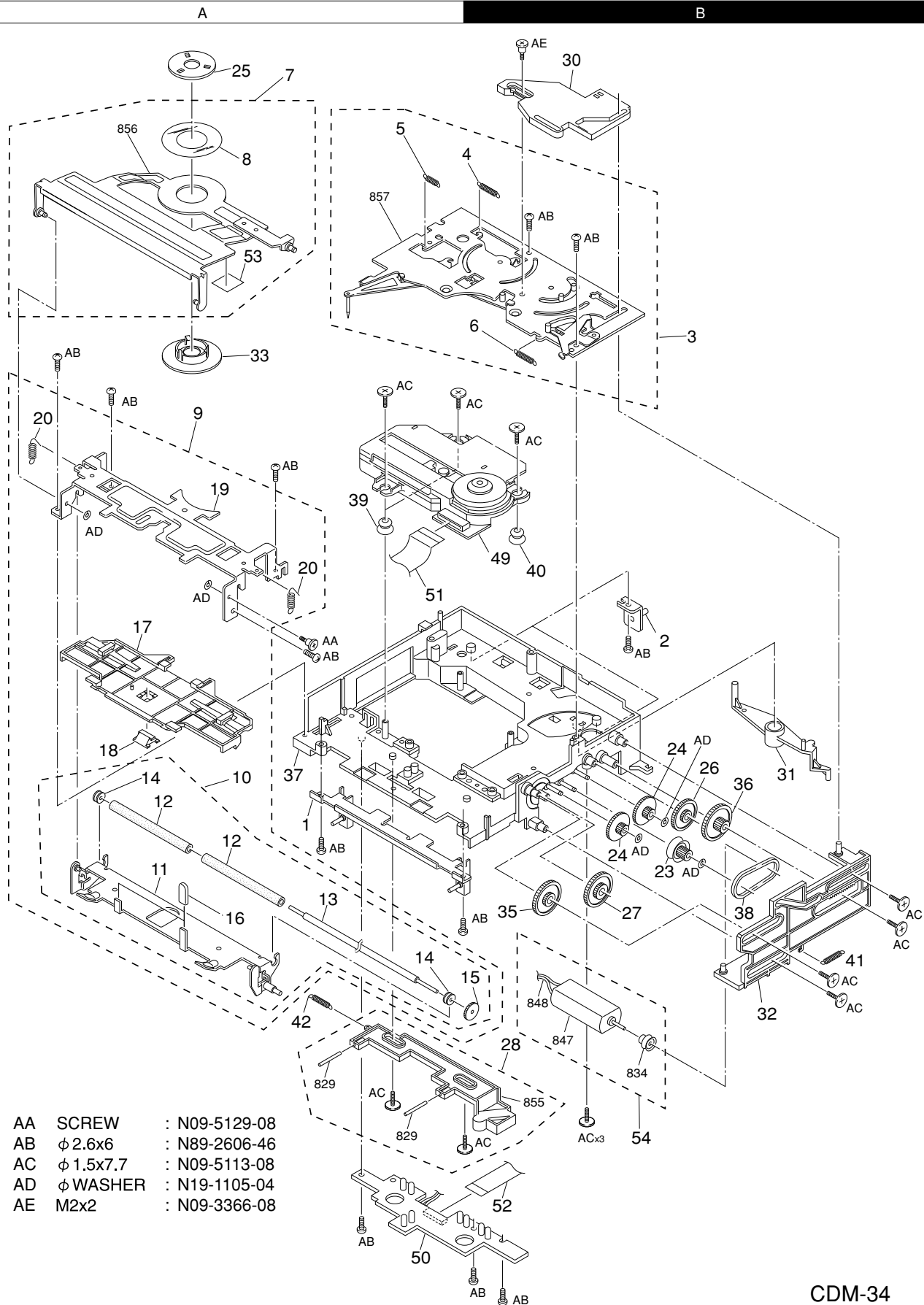
IC1	: LM4766T	Q101, 103	: DTC124EUA
IC2	: SI-3090C(1109)	Q102, 104	: DTC124ESA or UN4212
IC3	: SI-3050C(1113)		
IC4	: NJM2904M		
IC5	: TA79010SB	D1, 3	: D4SBL20UF03
IC6	: TA7810SB	D2	: D2SBA20F03
IC7	: XC62HR5102P	D4	: S1ZB20(4072)
		D5-8, 10, 13, 27, 29, 30, 33-37, 109	: 1SS133 or HSS104A
Q1, 2	: 2SC4213(B)	D11, 12, 23	: S5688B(TPB5)
Q3, 4	: 2SC1845(FE)	D19-21, 24, 26, 28, 31, 32, 39, 40, 115	: MA111
Q5, 6	: 2SC4081(R,S) or 2SC4116(Y,GR)	D25	: MTZJ3.9(B) or RD3.9ES(B2)
Q7, 8	: 2SA1576A(R,S) or 2SA1586(Y,GR)	D101-104	: *
Q9	: 2SC3940A(R,S) or 2SD863(E,F)	D106-108	: B30-2575-05
Q10, 11, 13, 105	: 2SC4097(Q,R)	D110	: B30-2538-05
Q12	: 2SA992(F,E)	D112-114	: MTZJ5.1(B) or RD5.1ES(B2)
Q14	: 2SA933AS(Q,R) or 2SA1048(Y,GR)		
Q15	: DTA124ESA or UN4112		

--- DIGITAL LINE
 --- SIGNAL LINE
 --- GND LINE
 --- +B LINE
 --- -B LINE

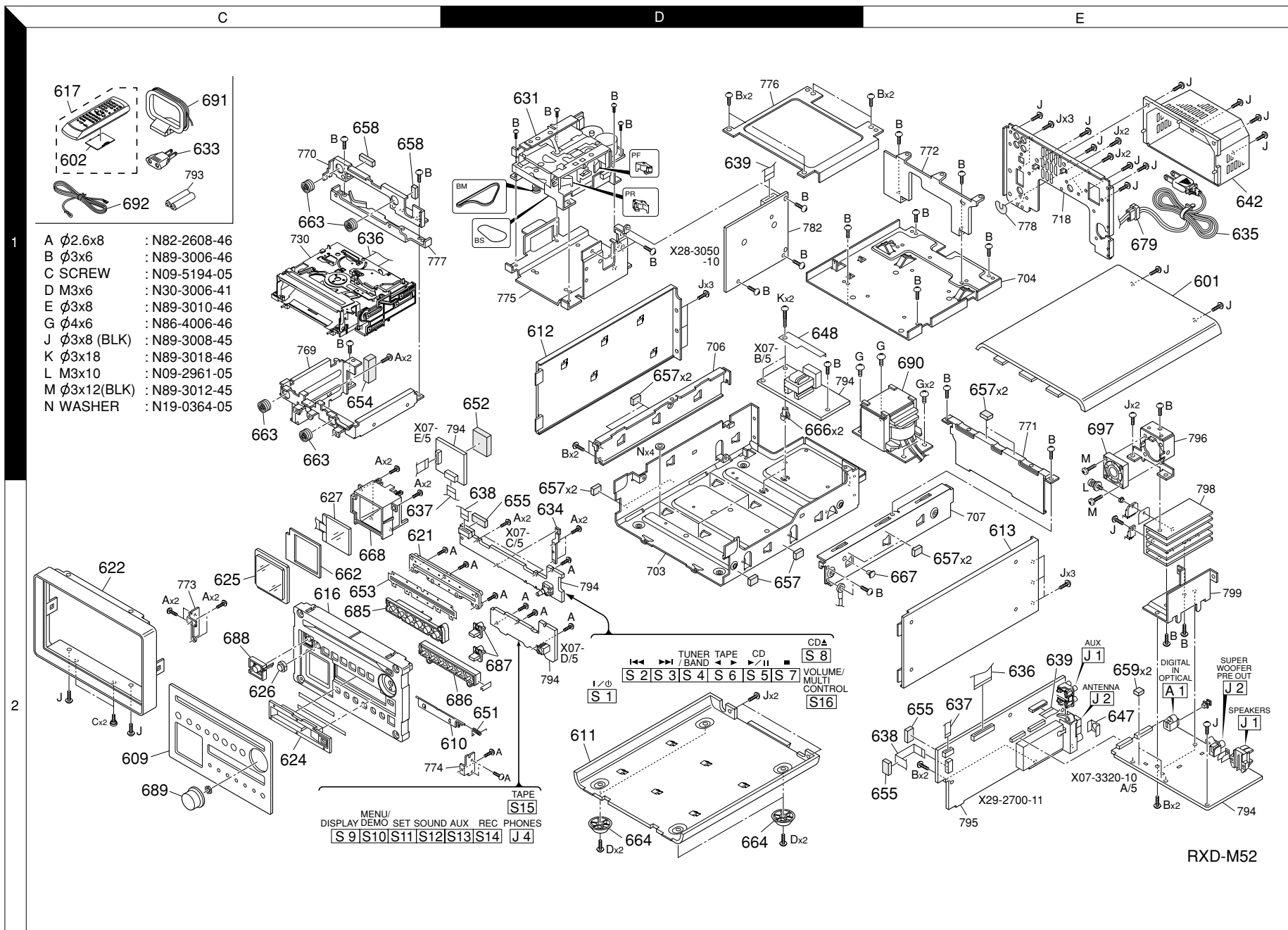
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, 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.

The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

EXPLODED VIEW (CD MECHANISM)



CDM-34



* 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.

①

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
RXD-M52						
601	1E	*	A02-2954-11	PLASTIC CABINET	K TEH MX	
602	1C	*	A09-1161-08	BATTERY COVER		
609	2C	*	A21-3862-03	DRESSING PANEL		
609	2C	*	A21-3863-03	DRESSING PANEL		
609	2C	*	A21-3875-03	DRESSING PANEL		
610	2D	*	A29-1104-04	PANEL (CASSETTE DECK)		
611	2D	*	A40-1053-01	BOTTOM PLATE		
612	1D	*	A50-1346-12	SIDE PLATE		
613	2E	*	A50-1350-12	SIDE PLATE		
616	2C	*	A60-1843-11	PANEL		
617	1C	*	A70-1401-05	REMOTE CONTROL ASSY(RC-M0302)	KMX TEH	
617	1C	*	A70-1403-05	REMOTE CONTROL ASSY(RC-M0302E)		
622	2C	*	B07-2516-13	ESCUTCHEON (CD)		
623	2C	*	B07-2524-03	ESCUTCHEON (CASSETTE DECK)		
624	2C	*	B07-2525-12	ESCUTCHEON		
625	2C	*	B10-3606-03	FRONT GLASS		
626	2C	*	B12-0398-04	INDICATOR		
627	2C	*	B38-0199-05	LIQUID CRYSTAL	X K TE K	
-			B46-0096-53	WARRANTY CARD		
-			B46-0197-00	QUESTIONAIRE CARD		
-			B46-0310-03	WARRANTY CARD		
-			B46-0328-03	WARRANTY CARD		
-			B46-0347-03	WARRANTY CARD	K T K XT ME	
-			B46-0350-00	QUESTIONAIRE CARD		
-			B58-0964-13	CAUTION CARD (UL)		
-			B58-0965-13	CAUTION CARD (T,XtypePL)		
-			B58-0966-13	CAUTION CARD (ELMtypePL)		
-		*	B58-1674-03	CAUTION CARD (P1,PRA,A4,1)	K	
-		*	B58-1680-04	CAUTION CARD		
-		*	B58-1681-04	CAUTION CARD	K E	
-		*	B60-4695-00	INSTRUCTION MANUAL (FR)		
-		*	B60-4696-00	INSTRUCTION MANUAL (NE)	E E KMXT E	
-		*	B60-4697-00	INSTRUCTION MANUAL (IT)		
-		*	B60-4698-00	INSTRUCTION MANUAL (ES)		
-		*	B60-4699-00	INSTRUCTION MANUAL (EN)		
-		*	B60-4701-00	INSTRUCTION MANUAL (GE)		
631	1D	*	D40-1673-05	CASSETTE MECHANISM ASSY	M ME X T K H	
△ 633	1C	*	E03-0115-05	AC PLUG ADAPTER		
△ 634	2D	*	E29-1654-04	LEAD PLATE		
△ 635	1E	*	E30-2788-05	AC POWER CORD		
△ 635	1E	*	E30-2790-05	AC POWER CORD		
△ 635	1E	*	E30-2791-05	AC POWER CORD		K MXTEH
△ 635	1E	*	E30-2924-05	AC POWER CORD		
△ 635	1E	*	E30-2950-05	AC POWER CORD		
636	1C,2E	*	E35-2570-05	FLAT CABLE (31P)CD		
637	2D,2E	*	E35-2710-05	FLAT CABLE (11P)LCD		
638	2D,2E	*	E35-2573-05	FLAT CABLE (13P)OPERATION		
639	1D,2E	*	E35-2595-05	FLAT CABLE (13P)X28toX29		
642	1E	*	F07-1703-02	COVER		
647	2E	*	F20-3559-04	INSULATING BOARD		
648	1D	*	F20-3558-04	INSULATING BOARD		

L : Scandinavia K : USA P : Canada R : Mexico C : China I : Malaysia
Y : PX(Far East,Hawaii) T : England E : Europe G : Germany V : China(Shanghai)
Y : AAFES(Europe) X : Australia Q : Russia H : Korea M : Other Areas △ indicates safety critical components .

* 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.

②

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks				
651	2D	*	G01-4205-04	TORSION COIL SPRING	KXTEH M KX M TE H					
652	1D	*	G11-2419-04	CUSHION						
653	2C	*	G11-2727-14	CUSHION						
654	1C	*	G11-2750-04	CUSHION						
655	2D,2E	*	G11-2751-04	CUSHION						
657	2D,2E	*	G11-2773-04	CUSHION						
658	1C	*	G11-2776-04	CUSHION						
659	2E	*	G11-2777-04	CUSHION						
662	2C	*	G53-0084-04	PACKING						
-		*	H10-7667-12	POLYSTYRENE FOAMED FIXTURE						
-		*	H10-7668-12	POLYSTYRENE FOAMED FIXTURE						
-		*	H25-0672-04	PROTECTION BAG						
-		*	H25-1595-04	PROTECTION BAG						
-		*	H25-1669-04	PROTECTION BAG						
-		*	H50-3777-04	ITEM CARTON CASE						
-		*	H50-3778-04	ITEM CARTON CASE						
-		*	H50-3779-14	ITEM CARTON CASE						
-		*	H50-3780-14	ITEM CARTON CASE						
663	1C		J02-1449-04	INSULATOR	K TEH MX					
664	2D	*	J02-1475-14	FOOT						
666	1D		J19-3732-04	UNIT HOLDER						
667	2E	*	J19-6103-05	HOLDER						
668	2C	*	J19-6071-23	HOLDER						
679	1E		J42-0083-05	POWER CORD BUSHING						
-		*	J69-0220-04	ADHESIVE TAPE						
685	2C		K29-7769-03	KNOB						
686	2D	*	K29-7770-13	KNOB						
687	2D	*	K29-7771-04	KNOB						
688	2C	*	K29-7772-14	KNOB						
689	2C	*	K29-7773-04	KNOB						
690	1E	*	L07-2863-05	POWER TRANSFORMER						
690	1E	*	L07-2864-05	POWER TRANSFORMER						
690	1E	*	L07-2865-05	POWER TRANSFORMER						
691	1C		T90-0852-05	LOOP ANTENNA	POWER AMPLIFIER UNIT(X07-3220-10)					
692	1C	*	T90-0858-05	LEAD WIRE ANTENNA						
D101,102			B30-2541-05	LED(GRN3(80))			K MXTEH			
D106-108			B30-2575-05	LED(WHITE)						
D110			B30-2538-05	LED(RED/GREEN)						
C1 ,2			CK73EB1C225K	CHIP C					2.2UF	K
C3 ,4			CK73GB1H102K	CHIP C					1000PF	K
C5 ,6			CE04HW1E100M	NP-ELEC					10UF	25WV
C7 ,8			CQ93FMG1H104J	MYLAR					0.10UF	J
C7 ,8			CQ93FMG1H224J	MYLAR					0.22UF	J
C9 -12			CK73GB1H472K	CHIP C					4700PF	K
C13 ,14			CC73GCH1H100D	CHIP C					10PF	D
C15 ,16			CK73GB1H471K	CHIP C					470PF	K
C17 ,18			CK73GB1H102K	CHIP C					1000PF	K
C19			CE04KW1H2R2M	ELECTRO					2.2UF	50WV
C20			CK73GB1H102K	CHIP C	1000PF	K				
C29 ,30			CC73GCH1H100D	CHIP C	10PF	D				
C29 ,30			CC73GCH1H560J	CHIP C	56PF	J				
C31 ,32			CQ93FMG1H224J	MYLAR	0.22UF	J				
POWER AMPLIFIER UNIT(X07-3220-10)										
D101,102			B30-2541-05	LED(GRN3(80))	K MXTEH					
D106-108			B30-2575-05	LED(WHITE)						
D110			B30-2538-05	LED(RED/GREEN)						
C1 ,2			CK73EB1C225K	CHIP C			2.2UF	K		
C3 ,4			CK73GB1H102K	CHIP C			1000PF	K		
C5 ,6			CE04HW1E100M	NP-ELEC			10UF	25WV		
C7 ,8			CQ93FMG1H104J	MYLAR			0.10UF	J		
C7 ,8			CQ93FMG1H224J	MYLAR			0.22UF	J		
C9 -12			CK73GB1H472K	CHIP C			4700PF	K		
C13 ,14			CC73GCH1H100D	CHIP C			10PF	D		
C15 ,16			CK73GB1H471K	CHIP C			470PF	K		
C17 ,18			CK73GB1H102K	CHIP C			1000PF	K		
C19			CE04KW1H2R2M	ELECTRO			2.2UF	50WV		
C20			CK73GB1H102K	CHIP C			1000PF	K		
C29 ,30			CC73GCH1H100D	CHIP C			10PF	D		
C29 ,30			CC73GCH1H560J	CHIP C	56PF	J				
C31 ,32			CQ93FMG1H224J	MYLAR	0.22UF	J				

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PARTS LIST

RXD-M52

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C101,102 C103 C104 C105 C106-108			CK73GB1H102K CE04RW1A101M CC73GCH1H101J CK73GB1H103K CK73FF1C474Z	CHIP C 1000PF K ELECTRO 100UF 10WV CHIP C 100PF J CHIP C 0.010UF K CHIP C 0.47UF Z		
C109 C110-114 C115 C116 C201,202			CK73GB1C104K CK73FF1C474Z CK73GB1H103K CK73GB1H102K C90-3928-05	CHIP C 0.10UF K CHIP C 0.47UF Z CHIP C 0.010UF K CHIP C 1000PF K ELECTRO 2200UF 35WV		
C203 C203 C204 C205 C206			CE04KW1C472M CE04KW1E332M CE04KW1E332M C91-1567-05 CK45FF1H103Z	ELECTRO 4700UF 16WV ELECTRO 3300UF 25WV ELECTRO 3300UF 25WV FILM 0.1UF J CERAMIC 0.010UF Z	KTEH MX	
C208 C212 C213 C214 C217			CK45FF1H103Z CE04KW1E470M CQ93FMG1H104J CQ93FMG1H102J CK73GB1C104K	CERAMIC 0.010UF Z ELECTRO 47UF 25WV MYLAR 0.10UF J MYLAR 1000PF J CHIP C 0.10UF K		
C219 C221 C223 C224 C225			CQ93FMG1H104J CE04KW1H100M CK73GB1H222K CK73GB1H103K CE04KW1H100M	MYLAR 0.10UF J ELECTRO 10UF 50WV CHIP C 2200PF K CHIP C 0.010UF K ELECTRO 10UF 50WV		
C227 C228 C229 C232 C236			CE04HW1E100M CK73GB1H103K CE04KW1V470M CK73GB1C104K CC73GCH1H470J	NP-ELEC 10UF 25WV CHIP C 0.010UF K ELECTRO 47UF 35WV CHIP C 0.10UF K CHIP C 47PF J		
C237,238 C237,238 C241 C251 C251			CC45FSL1H101J CC45FSL1H221J CE04KW1A101M CE04KW1A332M CE04KW1C332M	CERAMIC 100PF J CERAMIC 220PF J ELECTRO 100UF 10WV ELECTRO 3300UF 10WV ELECTRO 3300UF 16WV	K MXTEH MXTEH K	
C252 C253 C254 C255 C256			CQ93FMG1H104J CE04KW1E470M CK73GB1H102K CK73GB1C563K CK73EB1C225K	MYLAR 0.10UF J ELECTRO 47UF 25WV CHIP C 1000PF K CHIP C 0.056UF K CHIP C 2.2UF K		
C257 C258			CK73GB1H103K CE04KW1H100M	CHIP C 0.010UF K ELECTRO 10UF 50WV		
CN1,2 CN3 CN4 CN5 CN6			E40-4245-05 E40-3242-05 E40-3250-05 E40-9831-05 E40-9829-05	PIN ASSY PIN ASSY PIN ASSY SOCKET FOR PIN ASSY SOCKET FOR PIN ASSY		
CN7 CN8 CN9 CN14 CN15		*	E40-3249-05 E40-3246-05 E40-8250-05 E40-8268-05 E40-8637-05	PIN ASSY PIN ASSY FLAT CABLE CONNECTOR FLAT CABLE CONNECTOR FLAT CABLE CONNECTOR		
J1 J2			E70-0053-05 E63-0164-05	LOCK TERMINAL BOARD PIN JACK		

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J4 697 F1 F1	1E	*	E11-0924-05 F09-0142-05 F05-8013-05 F50-0068-05	PHONE JACK (MINI GRY) FAN FUSE (SEMKO) (250V T800MAL) FUSE(5X20)	MXTEH K	
CN16,17 E5,6			J13-0092-05 J11-0809-05	FUSE CLIP WIRE CLAMPER		
T1 T1		*	L07-2758-05 L07-2858-05	POWER TRANSFORMER POWER TRANSFORMER	K MXTEH	
R1,2 R3,4 R5,6 R7,8 R9,10			RK73FB2A223J RK73FB2A222J RK73FB2A203J RK73FB2A102J RK73FB2A361J	CHIP R 22K J 1/10W CHIP R 2.2K J 1/10W CHIP R 20K J 1/10W CHIP R 1.0K J 1/10W CHIP R 360 J 1/10W		
R11,12 R13,14 R15,16 R17,18 R19,20			RK73FB2A203J RS14KB3DR22J RK73FB2A102J RK73FB2A103J RK73FB2A472J	CHIP R 20K J 1/10W FL-PROOF RS 0.22 J 2W CHIP R 1.0K J 1/10W CHIP R 10K J 1/10W CHIP R 4.7K J 1/10W		
R21,22 R23,24 R25 R27,28 R29,30			RK73FB2A473J RK73FB2A682J RK73FB2A104J RS14KB3A331J RS14KB3A2R7J	CHIP R 47K J 1/10W CHIP R 6.8K J 1/10W CHIP R 100K J 1/10W FL-PROOF RS 330 J 1W FL-PROOF RS 2.7 J 1W		
R31,32 R33 R37,38 R101 R102			RK73FB2A562J RK73FB2A821J RK73FB2A471J RK73FB2A272J RK73FB2A242J	CHIP R 5.6K J 1/10W CHIP R 820 J 1/10W CHIP R 470 J 1/10W CHIP R 2.7K J 1/10W CHIP R 2.4K J 1/10W		
R103 R104 R105 R106 R107			RK73FB2A302J RK73FB2A432J RK73FB2A622J RK73FB2A912J RK73FB2A183J	CHIP R 3.0K J 1/10W CHIP R 4.3K J 1/10W CHIP R 6.2K J 1/10W CHIP R 9.1K J 1/10W CHIP R 18K J 1/10W		
R108 R109 R110 R111 R112			RK73FB2A393J RK73FB2A272J RK73FB2A242J RK73FB2A302J RK73FB2A432J	CHIP R 39K J 1/10W CHIP R 2.7K J 1/10W CHIP R 2.4K J 1/10W CHIP R 3.0K J 1/10W CHIP R 4.3K J 1/10W		
R113 R114 R115 R116 R117			RK73FB2A622J RK73FB2A912J RK73FB2A183J RK73FB2A221J RK73FB2A122J	CHIP R 6.2K J 1/10W CHIP R 9.1K J 1/10W CHIP R 18K J 1/10W CHIP R 220 J 1/10W CHIP R 1.2K J 1/10W		
R118,119 R121 R122,123 R126 R128			RK73FB2A104J RK73FB2A102J RK73FB2A301J RK73FB2A300J RK73FB2A103J	CHIP R 100K J 1/10W CHIP R 1.0K J 1/10W CHIP R 300 J 1/10W CHIP R 30 J 1/10W CHIP R 10K J 1/10W		
R129,130 R131-133 R201 R203 R204			RK73FB2A300J RK73FB2A623J RD14NB2E1R0J RK73FB2A431J RD14NB2E100J	CHIP R 30 J 1/10W CHIP R 62K J 1/10W RD 1 J 1/4W CHIP R 430 J 1/10W RD 10 J 1/4W		

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Δ R205			RD14NB2E1R0J	RD 1	J 1/4W	
Δ R206			RD14NB2E4R7J	RD 4.7	J 1/4W	
Δ R207			RD14NB2E1R0J	RD 1	J 1/4W	
R208			RK73FB2A102J	CHIP R 1.0K	J 1/10W	
R209			RK73FB2A472J	CHIP R 4.7K	J 1/10W	
R211			RK73FB2A472J	CHIP R 4.7K	J 1/10W	
R212			RK73FB2A224J	CHIP R 220K	J 1/10W	
R213			RK73FB2A472J	CHIP R 4.7K	J 1/10W	
R214-218			RK73FB2A103J	CHIP R 10K	J 1/10W	
R219,220			RK73FB2A472J	CHIP R 4.7K	J 1/10W	
R221			RK73FB2A103J	CHIP R 10K	J 1/10W	
R222			RK73FB2A472J	CHIP R 4.7K	J 1/10W	
R223			RK73FB2A103J	CHIP R 10K	J 1/10W	
Δ R224			RD14NB2E820J	RD 82	J 1/4W	
R225			RK73FB2A122J	CHIP R 1.2K	J 1/10W	
R227			RK73FB2A102J	CHIP R 1.0K	J 1/10W	
R228			RK73FB2A103J	CHIP R 10K	J 1/10W	
R229			RK73FB2A473J	CHIP R 47K	J 1/10W	
R232			RK73FB2A561J	CHIP R 560	J 1/10W	
R233-235			RK73FB2A222J	CHIP R 2.2K	J 1/10W	
R236-238			RK73FB2A473J	CHIP R 47K	J 1/10W	
R240			RK73FB2A222J	CHIP R 2.2K	J 1/10W	
Δ R241			RK73FB2A622J	CHIP R 6.2K	J 1/10W	
Δ R249			RD14NB2E101J	RD 100	J 1/4W	
R250			RK73FB2A273J	CHIP R 27K	J 1/10W	MXTEH
R250			RK73FB2A683J	CHIP R 68K	J 1/10W	K
R251			RK73FB2A104J	CHIP R 100K	J 1/10W	
R252			RK73FB2A105J	CHIP R 1.0M	J 1/10W	
R253			RK73FB2A334J	CHIP R 330K	J 1/10W	
R254			RK73FB2A472J	CHIP R 4.7K	J 1/10W	
Δ R255			RK73FB2A103J	CHIP R 10K	J 1/10W	
Δ R256			RS14KB3A100J	FL-PROOF RS 10	J 1W	
Δ R257			RS14KB3A331J	FL-PROOF RS 330	J 1W	
Δ R258			R92-1844-05	CARBON 3.3M	J 1/2W	K
Δ R262			RK73FB2A472J	CHIP R 4.7K	J 1/10W	
R270,271			RK73FB2A332J	CHIP R 3.3K	J 1/10W	
R272,273			RK73FB2A101J	CHIP R 100	J 1/10W	
W301			R92-0670-05	CHIP R 0 OHM		
W305,306			R92-0670-05	CHIP R 0 OHM		
W308,309			R92-0670-05	CHIP R 0 OHM		
W311			R92-0670-05	CHIP R 0 OHM		
Δ K1			S76-0099-05	MAGNETIC RELAY		
K2 ,3			S76-0076-05	MAGNETIC RELAY		
S1 -15			S70-0031-05	TACT SWITCH		
S16			T99-0619-05	ROTARY ENCODER		
Δ D1			D4SBL20UF03	DIODE		
Δ D2			D2SBA20F03	DIODE		
Δ D3			D4SBL20UF03	DIODE		
Δ D4			S1ZB20(4072)	DIODE		
Δ D5 -8			HSS104A	DIODE		
Δ D5 -8			1SS133	DIODE		
D10			HSS104A	DIODE		
D10			1SS133	DIODE		

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D11 ,12			S5688B(TPB5)	DIODE		
D13			HSS104A	DIODE		
D13			1SS133	DIODE		
D19 -21			MA111	DIODE		
D24			MA111	DIODE		
D25			MTZJ3.9(B)	ZENER DIODE		
D25			RD3.9ES(B2)	ZENER DIODE		
D26			MA111	DIODE		
D27			HSS104A	DIODE		
D27			1SS133	DIODE		
D28			MA111	DIODE		
D29 ,30			HSS104A	DIODE		
D29 ,30			1SS133	DIODE		
D31 ,32			MA111	DIODE		
D33 -37			HSS104A	DIODE		
D33 -37			1SS133	DIODE		
D39 ,40			MA111	DIODE		
D109			HSS104A	DIODE		
D109			1SS133	DIODE		
D112-114			MTZJ5.1(B)	ZENER DIODE		
Δ D112-114			RD5.1ES(B2)	ZENER DIODE		
Δ IC1			LM4766T	ANALOGUE IC		
Δ IC2			SI-3090C(1109)	ANALOGUE IC		
Δ IC3			SI-3050C(1113)	ANALOGUE IC		
Δ IC4			NJM2904M	IC(OP AMP X2)		
Δ IC5		*	TA79010SB	ANALOGUE IC		
Δ IC6			TA7810SB	ANALOGUE IC		
Δ IC7			XC62HR5102P	ANALOGUE IC		
Q1 ,2			2SC4213(B)	TRANSISTOR		
Q3 ,4			2SC1845(F,E)	TRANSISTOR		
Q5 ,6			2SC4081(R,S)	TRANSISTOR		
Q5 ,6			2SC4116(Y,GR)	TRANSISTOR		
Q7 ,8			2SA1576A(R,S)	TRANSISTOR		
Q7 ,8			2SA1586(Y,GR)	TRANSISTOR		
Δ Q9			2SC3940A(R,S)	TRANSISTOR		
Δ Q9			2SD863(E,F)	TRANSISTOR		
Q10 ,11			2SC4097(Q,R)	TRANSISTOR		
Q12			2SA992(F,E)	TRANSISTOR		
Q13			2SC4097(Q,R)	TRANSISTOR		
Q14			2SA1048(Y,GR)	TRANSISTOR		
Q14			2SA933AS(Q,R)	TRANSISTOR		
Q15			DTA124ESA	DIGITAL TRANSISTOR		
Q15			UN4112	DIGITAL TRANSISTOR		
Q101			DTC124EUA	DIGITAL TRANSISTOR		
Q102			DTC124ESA	DIGITAL TRANSISTOR		
Q102			UN4212	DIGITAL TRANSISTOR		
Q103			DTC124EUA	DIGITAL TRANSISTOR		
Q104			DTC124ESA	DIGITAL TRANSISTOR		
Q104			UN4212	DIGITAL TRANSISTOR		
Q105			2SC4097(Q,R)	TRANSISTOR		
TH1			NTH20P40B473J	THERMISTOR		
A1			W02-2732-05	OSCILLATING MODULE		
A2			W02-2571-05	OPTIC RECEIVING MODULE		

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RECORD/PLAY BACK UNIT(X28-3050-10)						
C3 ,4 C5 ,6 C7 C8 C9 ,10			CE04KW1H4R7M CK73GF1C224Z CE04KW1C220M CE04KW1H010M CE04RW1V4R7M	ELECTRO 4.7UF 50WV CHIP C 0.22UF Z ELECTRO 22UF 16WV ELECTRO 1.0UF 50WV ELECTRO 4.7UF 35WV		
C11 ,12 C13 ,14 C15 ,16 C17 C18			CE04RW1H2R2M CK73GB1H682K CE04KW1C100M CE04KW1E470M CE04KW1C220M	ELECTRO 2.2UF 50WV CHIP C 6800PF K ELECTRO 10UF 16WV ELECTRO 47UF 25WV ELECTRO 22UF 16WV		
C19 ,20 C21 ,22 C23 ,24 C25 ,26 C27 ,28			CK73GB1H392K CE04KW1H4R7M CK73GB1H103K CE04RW1V100M CE04KW1H010M	CHIP C 3900PF K ELECTRO 4.7UF 50WV CHIP C 0.010UF K ELECTRO 10UF 35WV ELECTRO 1.0UF 50WV		
C29 ,30 C31 ,32 C33 C34 C35 ,36			CE04KW1H2R2M CK73GCH1H470J CE04RW0J331M CE04RW1C101M CK73GB1H681K	ELECTRO 2.2UF 50WV CHIP C 47PF J ELECTRO 330UF 6.3WV ELECTRO 100UF 16WV CHIP C 680PF K		
C37 ,38 C39 -42 C43 C44 C45			CE04RW1V100M CK73GB1H221K CQ93HP2A682J CE04KW1C100M CK73GB1H103K	ELECTRO 10UF 35WV CHIP C 220PF K MYLAR 6800PF J ELECTRO 10UF 16WV CHIP C 0.010UF K		
C46 ,47 C48 C49 C50 C51			CK73GB1H562K CK73GB1H103K CE04KW1H3R3M CK73GF1C224Z CK73GF1C104Z	CHIP C 5600PF K CHIP C 0.010UF K ELECTRO 3.3UF 50WV CHIP C 0.22UF Z CHIP C 0.10UF Z		
C52 C53 C54 ,55 C57 C58			CK73GF1A105Z CK73GB1H103K CK73GB1H221K CK73GB1H103K CK73GB1H102K	CHIP C 1.0UF Z CHIP C 0.010UF K CHIP C 220PF K CHIP C 0.010UF K CHIP C 1000PF K		
C59 C60			CE04KW1C100M CK73GB1H221K	ELECTRO 10UF 16WV CHIP C 220PF K		
CN2 CN3 CN4 CN5			E40-4938-05 E40-3249-05 E40-3257-05 E40-3251-05	FLAT CABLE CONNECTOR PIN ASSY PIN ASSY PIN ASSY		
E3			J11-0808-05	WIRE CLAMPER		
L1 ,2 L3 ,4 L5 L6			L40-1035-29 L79-1242-05 L32-1010-05 L40-2201-58	SMALL FIXED INDUCTOR(10MH, J) LC FILTER BIAS OSCILLATING COIL SMALL FIXED INDUCTOR(22UH,K)		
R1 ,2 R3 ,4 R5 ,6 R7 ,8 R9 ,10			RK73FB2A101J RK73FB2A104J RK73FB2A273J RK73FB2A162J RK73FB2A392J	CHIP R 100 J 1/10W CHIP R 100K J 1/10W CHIP R 27K J 1/10W CHIP R 1.6K J 1/10W CHIP R 3.9K J 1/10W		

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Δ R11 R12 R13 ,14 R15 ,16 R17 ,18			RK73FB2A183J RD14NB2E100J RK73FB2A103J RK73FB2A152J RK73FB2A271J	CHIP R 18K J 1/10W RD 10 J 1/4W CHIP R 10K J 1/10W CHIP R 1.5K J 1/10W CHIP R 270 J 1/10W		
R19 ,20 R21 ,22 R23 ,24 R25 ,26 R27 ,28			RK73FB2A184J RK73FB2A203J RK73FB2A153J RK73FB2A752J RK73FB2A242J	CHIP R 180K J 1/10W CHIP R 20K J 1/10W CHIP R 15K J 1/10W CHIP R 7.5K J 1/10W CHIP R 2.4K J 1/10W		
R29 ,30 R31 ,32 R33 R35 R36			RK73FB2A182J RK73FB2A102J RK73FB2A223J RK73FB2A102J RD14NB2E100J	CHIP R 1.8K J 1/10W CHIP R 1.0K J 1/10W CHIP R 22K J 1/10W CHIP R 1.0K J 1/10W RD 10 J 1/4W		
Δ R37 ,38 R39 ,40 R41 ,42 Δ R43 R44			RK73FB2A154J RK73FB2A103J RK73FB2A153J RD14NB2E100J RK73FB2A103J	CHIP R 150K J 1/10W CHIP R 10K J 1/10W CHIP R 15K J 1/10W RD 10 J 1/4W CHIP R 10K J 1/10W		
Δ R45 ,46 R49 ,50 R51 R52 R53			RK73FB2A333J RK73FB2A273J RD14NB2E100J RK73FB2A363J RK73FB2A202J	CHIP R 33K J 1/10W CHIP R 27K J 1/10W RD 10 J 1/4W CHIP R 36K J 1/10W CHIP R 2.0K J 1/10W		
R55 R56 R57 R60 R68 ,69			RK73FB2A103J RK73FB2A271J RK73FB2A103J RK73FB2A912J RK73FB2A101J	CHIP R 10K J 1/10W CHIP R 270 J 1/10W CHIP R 10K J 1/10W CHIP R 9.1K J 1/10W CHIP R 100 J 1/10W		
R70 R71 ,72 R75 ,76 R77 ,78 R79 -85			RK73FB2A392J RK73FB2A101J RK73FB2A472J RK73FB2A473J RK73FB2A103J	CHIP R 3.9K J 1/10W CHIP R 100 J 1/10W CHIP R 4.7K J 1/10W CHIP R 47K J 1/10W CHIP R 10K J 1/10W		
R86 R87 R88 R90 -93 R96 ,97			RK73FB2A223J RK73FB2A562J RK73FB2A103J RK73FB2A102J RK73FB2A102J	CHIP R 22K J 1/10W CHIP R 5.6K J 1/10W CHIP R 10K J 1/10W CHIP R 1.0K J 1/10W CHIP R 1.0K J 1/10W		
R98 VR1 ,2 VR3 ,4			RK73FB2A101J R32-0037-05 R12-5049-05	CHIP R 100 J 1/10W SEMI FIXED VARIABLE RESISTOR TRIMMING POT.(220K)		
D1 D2 D3 ,4 D3 ,4 D5			UDZ5.6B MA111 HSS104A 1SS133 UDZ5.6B	ZENER DIODE DIODE DIODE DIODE ZENER DIODE		
IC1 IC2 IC3 IC4 IC5			HA12219NT HA12136A BA3126N NJU3713D TA8409S	ANALOGUE IC ANALOGUE IC ANALOGUE IC MOS-IC MOS-IC		
Q1 ,2			2SC1740S(Q,R)	TRANSISTOR		

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
Q1 ,2			2SC2458(Y,GR)	TRANSISTOR		
Q3			2SC3940A(R,S)	TRANSISTOR		
Q3			2SD863(E,F)	TRANSISTOR		
Q4 -6			DTC124EUA	DIGITAL TRANSISTOR		
Q4 -6			UN5212	DIGITAL TRANSISTOR		
Q7			2SA1286-T11	TRANSISTOR		
Q8			DTC124EUA	DIGITAL TRANSISTOR		
Q8			UN5212	DIGITAL TRANSISTOR		
Q9			2SA1286-T11	TRANSISTOR		
Q10			DTC124EUA	DIGITAL TRANSISTOR		
Q10			UN5212	DIGITAL TRANSISTOR		
Q11			2SC4081(R,S)	TRANSISTOR		
Q11			2SC4116(Y,GR)	TRANSISTOR		
Q12			2SC1740S(Q,R)	TRANSISTOR		
Q12			2SC2458(Y,GR)	TRANSISTOR		
Q17			DTA124EUA	DIGITAL TRANSISTOR		
Q17			UN5112	DIGITAL TRANSISTOR		
Q18			DTC124EUA	DIGITAL TRANSISTOR		
Q18			UN5212	DIGITAL TRANSISTOR		
CONTROL CIRCUIT UNIT(X29-2700-11)						
C1			CE04RW0G101M	ELECTRO	100UF	4.0WV
C2			CE04KW0J331M	ELECTRO	330UF	6.3WV
C3			CE04RW0G470M	ELECTRO	47UF	4.0WV
C4			CC73GCH1H100D	CHIP C	10PF	D
C5			CC73GCH1H150J	CHIP C	15PF	J
C6			CK73GB1E223K	CHIP C	0.022UF	K
C7			CC73GCH1H221J	CHIP C	220PF	J
C8			CK73GB1H471K	CHIP C	470PF	K
C9			CK73GB1E223K	CHIP C	0.022UF	K
C10			CC73GCH1H101J	CHIP C	100PF	J
C11			CK73GB1C104K	CHIP C	0.10UF	K
C12			CC73GCH1H221J	CHIP C	220PF	J
C13			CK73GB1H102K	CHIP C	1000PF	K
C14			CK73GF1A474Z	CHIP C	0.47UF	Z
C15			CK73GB1H103K	CHIP C	0.010UF	K
C16			CK73GB1H272K	CHIP C	2700PF	K
C17			CK73GB1H152K	CHIP C	1500PF	K
C18			CK73GB1C473K	CHIP C	0.047UF	K
C19			CK73GB1H102K	CHIP C	1000PF	K
C20			CK73GB1H222K	CHIP C	2200PF	K
C21			CC73GCH1H150J	CHIP C	15PF	J
C22			CC73GCH1H120J	CHIP C	12PF	J
C23			CK73GB1H102K	CHIP C	1000PF	K
C24			CE04RW0J331M	ELECTRO	330UF	6.3WV
C26			CC73GCH1H101J	CHIP C	100PF	J
C27			CE04RW0J221M	ELECTRO	220UF	6.3WV
C28			CK73GB1H222K	CHIP C	2200PF	K
C31 ,32			CK73GB1H821K	CHIP C	820PF	K
C33 ,34			CC73GCH1H101J	CHIP C	100PF	J
C35			CE04RW0G471M	ELECTRO	470UF	4.0WV
C36			CE04RW1A221M	ELECTRO	220UF	10WV
C37			CK73GB1H102K	CHIP C	1000PF	K
C38			CK73GB1C104K	CHIP C	0.10UF	K
C39			CK73GB1C473K	CHIP C	0.047UF	K
C40			CK73GB1H103K	CHIP C	0.010UF	K

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C41 ,42			CE04KW1H220M	ELECTRO	22UF	50WV
C43			CK73GB1C104K	CHIP C	0.10UF	K
C45 ,46			CC73GCH1H101J	CHIP C	100PF	J
C49 ,50			CC73GCH1H101J	CHIP C	100PF	J
C51			CE04KW1H2R2M	ELECTRO	2.2UF	50WV
C52			CE04KW1H010M	ELECTRO	1.0UF	50WV
C53			CK73GB1H103K	CHIP C	0.010UF	K
C55			CE04KW1A101M	ELECTRO	100UF	10WV
C56			CE04KW0J331M	ELECTRO	330UF	6.3WV
C57 ,58			CC73GCH1H220J	CHIP C	22PF	J
C59			CK73GB1H102K	CHIP C	1000PF	K
C60 ,61			CK73GB1C104K	CHIP C	0.10UF	K
C62			CK73GB1H471K	CHIP C	470PF	K
C63 ,64			CK73GB1H102K	CHIP C	1000PF	K
C65			CK73GB1H471K	CHIP C	470PF	K
C66 -70			CK73GB1H102K	CHIP C	1000PF	K
C71			CK73GB1H103K	CHIP C	0.010UF	K
C72			CE04KW1H4R7M	ELECTRO	4.7UF	50WV
C73			CK73GB1H103K	CHIP C	0.010UF	K
C74 ,75			CK73GB1H222K	CHIP C	2200PF	K
C77			CK73GF1A105Z	CHIP C	1.0UF	Z
C78			CC73GCH1H220J	CHIP C	22PF	J
C81			CE04RW1E470M	ELECTRO	47UF	25WV
C83			CK73GB1H102K	CHIP C	1000PF	K
C85			CK73GB1H103K	CHIP C	0.010UF	K
C101-104			CC73GCH1H221J	CHIP C	220PF	J
C105,106			CK73FF1C105Z	CHIP C	1.0UF	Z
C109-112			CK73GF1A105Z	CHIP C	1.0UF	Z
C113,114			CE04KW1H100M	ELECTRO	10UF	50WV
C115,116			CC73GCH1H221J	CHIP C	220PF	J
C119,120			CC73GCH1H470J	CHIP C	47PF	J
C123,124			CE04KW1H100M	ELECTRO	10UF	50WV
C125,126			CK73GB1C104K	CHIP C	0.10UF	K
C127,128			CK73GB1C823K	CHIP C	0.082UF	K
C129,130			CK73GB1A154K	CHIP C	0.15UF	K
C131,132			CK73GB1C563K	CHIP C	0.056UF	K
C133,134			CK73GB1H122K	CHIP C	1200PF	K
C135,136			CE04KW1H2R2M	ELECTRO	2.2UF	50WV
C137			CC73GCH1H560J	CHIP C	56PF	J
C138			CC73GCH1H680J	CHIP C	68PF	J
C139,140			CE04KW1H4R7M	ELECTRO	4.7UF	50WV
C141,142			CC73GCH1H221J	CHIP C	220PF	J
C143			CE04KW1E470M	ELECTRO	47UF	25WV
C144,145			CE04KW1H100M	ELECTRO	10UF	50WV
C146			CK73GF1A105Z	CHIP C	1.0UF	Z
C147			CC73GCH1H820J	CHIP C	82PF	J
C148			CC73GCH1H680J	CHIP C	68PF	J
C149,150			CE04KW1H4R7M	ELECTRO	4.7UF	50WV
C151			CE04KW1C221M	ELECTRO	220UF	16WV
C154			CE04KW1C101M	ELECTRO	100UF	16WV
C158			CK73GB1C104K	CHIP C	0.10UF	K
C160			CC73GCH1H330J	CHIP C	33PF	J
C161			CK73GB1C104K	CHIP C	0.10UF	K
C163			CE04KW1A101M	ELECTRO	100UF	10WV
C164			CK73GB1C104K	CHIP C	0.10UF	K

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PARTS LIST

RXD-M52

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C173			CK73GB1H471K	CHIP C 470PF K		
C181			CE04RW1H2R2M	ELECTRO 2.2UF 50WV	TEH	
C182			CC73GCH1H331J	CHIP C 330PF J	TEH	
C183			CK73GB1H103K	CHIP C 0.010UF K	TEH	
C184			CK73GB1H561K	CHIP C 560PF K	TEH	
C185			CE04RW0J470M	ELECTRO 47UF 6.3WV	TEH	
C186			CK73GB1H103K	CHIP C 0.010UF K	TEH	
C187			CC73GCH1H220J	CHIP C 22PF J	TEH	
C188			CC73GCH1H470J	CHIP C 47PF J	TEH	
C191,192			CK73GB1H102K	CHIP C 1000PF K		
C193,194			CC73GCH1H331J	CHIP C 330PF J		
C232			CC73GCH1H470J	CHIP C 47PF J		
C235			CC73GCH1H220J	CHIP C 22PF J		
C236-238			CC73GCH1H330J	CHIP C 33PF J		
C253			CC45FSL1H101J	CERAMIC 100PF J	TEH	
CN1			E40-4724-05	FLAT CABLE CONNECTOR		
CN2			E40-8268-05	FLAT CABLE CONNECTOR		
CN3			E40-8318-05	FLAT CABLE CONNECTOR		
CN4			E40-3262-05	PIN ASSY		
CN5			E40-9848-05	PIN ASSY		
CN6			E40-9846-05	PIN ASSY		
CN8			E40-3271-05	PIN ASSY		
CN9			E40-8250-05	FLAT CABLE CONNECTOR		
J1			E63-1082-05	PIN JACK		
J2		*	E70-0127-05	LOCK TERMINAL BOARD		
E1		*	F10-1181-04	SHIELDING PLATE		
L1			L40-1001-31	SMALL FIXED INDUCTOR(10UH,K)		
L6			L92-0089-05	CHIP FERRITE		
X1			L77-2173-05	CRYSTAL RESONATOR(32.768KHZ)		
X2			L78-0294-05	RESONATOR (10.000M)		
X3			L77-2283-05	CRYSTAL RESONATOR(33.8688MHZ)		
X4			L77-2255-05	CRYSTAL RESONATOR(4.332MHZ)	TEH	
R1 ,2			RK73FB2A204J	CHIP R 200K J 1/10W		
R7			RK73FB2A100J	CHIP R 10 J 1/10W		
R8			RK73FB2A473J	CHIP R 47K J 1/10W		
R9			RK73FB2A910J	CHIP R 91 J 1/10W		
R10			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R11			RK73FB2A133J	CHIP R 13K J 1/10W		
R12			RK73FB2A303J	CHIP R 30K J 1/10W		
R13 -16			RK73FB2A103J	CHIP R 10K J 1/10W		
R17			RK73FB2A223J	CHIP R 22K J 1/10W		
R18			RK73FB2A221J	CHIP R 220 J 1/10W		
R19 ,20			RK73FB2A101J	CHIP R 100 J 1/10W		
R21			RK73FB2A303J	CHIP R 30K J 1/10W		
R22			RK73FB2A223J	CHIP R 22K J 1/10W		
R23			RK73FB2A512J	CHIP R 5.1K J 1/10W		
R24			RK73FB2A153J	CHIP R 15K J 1/10W		
R25			RK73FB2A104J	CHIP R 100K J 1/10W		
R26			RK73FB2A153J	CHIP R 15K J 1/10W		
R27			RK73FB2A471J	CHIP R 470 J 1/10W		
R28			RK73FB2A221J	CHIP R 220 J 1/10W		
R29 -31			RK73FB2A471J	CHIP R 470 J 1/10W		
R32			RK73FB2A473J	CHIP R 47K J 1/10W		

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R33			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R34			RK73FB2A333J	CHIP R 33K J 1/10W		
R35			RK73FB2A104J	CHIP R 100K J 1/10W		
R36			RK73FB2A105J	CHIP R 1.0M J 1/10W		
R37			RK73FB2A103J	CHIP R 10K J 1/10W		
R38 ,39			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R40			RK73FB2A151J	CHIP R 150 J 1/10W		
R41			RK73FB2A105J	CHIP R 1.0M J 1/10W		
R42			RK73FB2A471J	CHIP R 470 J 1/10W		
R43 ,44			RK73FB2A912J	CHIP R 9.1K J 1/10W		
R45 -48			RK73FB2A153J	CHIP R 15K J 1/10W		
R49			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R51			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R52			RK73FB2A182J	CHIP R 1.8K J 1/10W		
R53			RK73FB2A224J	CHIP R 220K J 1/10W		
R54			RK73FB2A223J	CHIP R 22K J 1/10W		
R55			RK73FB2A182J	CHIP R 1.8K J 1/10W		
R56			RK73FB2A224J	CHIP R 220K J 1/10W		
R57			RK73FB2A105J	CHIP R 1.0M J 1/10W		
R58			RK73FB2A434J	CHIP R 430K J 1/10W		
R61 ,62			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R63			RK73FB2A225J	CHIP R 2.2M J 1/10W		
R65			RK73FB2A103J	CHIP R 10K J 1/10W		
R66			RK73FB2A153J	CHIP R 15K J 1/10W		
R67			RK73FB2A103J	CHIP R 10K J 1/10W		
R68			RK73FB2A153J	CHIP R 15K J 1/10W		
R69			RK73FB2A103J	CHIP R 10K J 1/10W		
R70			RK73FB2A153J	CHIP R 15K J 1/10W		
R71			RK73FB2A103J	CHIP R 10K J 1/10W		
R72			RK73FB2A153J	CHIP R 15K J 1/10W		
R73 ,74			RK73FB2A2R2J	CHIP R 2.2 J 1/10W		
R75			RK73FB2A1R0J	CHIP R 1 J 1/10W		
R76 ,77			RK73FB2A2R2J	CHIP R 2.2 J 1/10W		
R78			RD14NB2E100J	RD 10 J 1/4W		
R79			RK73FB2A103J	CHIP R 10K J 1/10W		
R80			RK73FB2A1R0J	CHIP R 1 J 1/10W		
R81 ,82			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R85			RD14NB2E1R0J	RD 1 J 1/4W		
R91			RK73FB2A103J	CHIP R 10K J 1/10W		
R101			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R102			RK73FB2A103J	CHIP R 10K J 1/10W		
R103			RK73FB2A104J	CHIP R 100K J 1/10W		
R104			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R105			RK73FB2A103J	CHIP R 10K J 1/10W		
R106			RK73FB2A220J	CHIP R 22 J 1/10W		
R107			RK73FB2A221J	CHIP R 220 J 1/10W		
R108			RK73FB2A471J	CHIP R 470 J 1/10W		
R109			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R110			RK73FB2A475J	CHIP R 4.7M J 1/10W		
R111			RK73FB2A104J	CHIP R 100K J 1/10W		
R112			RK73FB2A105J	CHIP R 1.0M J 1/10W		
R113			RK73FB2A103J	CHIP R 10K J 1/10W		
R114,115			RK73FB2A221J	CHIP R 220 J 1/10W		
R116			RK73FB2A104J	CHIP R 100K J 1/10W		
R118			RK73FB2A104J	CHIP R 100K J 1/10W	MXTEH	

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R119			RK73FB2A104J	CHIP R 100K J 1/10W	K	
R120			RK73FB2A104J	CHIP R 100K J 1/10W	MX	
R121			RK73FB2A104J	CHIP R 100K J 1/10W	KTEH	
R122			RK73FB2A104J	CHIP R 100K J 1/10W	TEH	
R123			RK73FB2A104J	CHIP R 100K J 1/10W	KMX	
R124-131			RK73FB2A221J	CHIP R 220 J 1/10W		
R137-141			RK73FB2A473J	CHIP R 47K J 1/10W		
R142-147			RK73FB2A103J	CHIP R 10K J 1/10W		
R148			RK73FB2A101J	CHIP R 100 J 1/10W		
R149			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R150			RK73FB2A153J	CHIP R 15K J 1/10W		
R151			RK73FB2A432J	CHIP R 4.3K J 1/10W		
R152			RK73FB2A104J	CHIP R 100K J 1/10W		
R153,154			RK73FB2A153J	CHIP R 15K J 1/10W		
R155			RK73FB2A104J	CHIP R 100K J 1/10W		
R156,157			RK73FB2A103J	CHIP R 10K J 1/10W		
R158			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R159			RK73FB2A432J	CHIP R 4.3K J 1/10W		
R160			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R161,162			RK73FB2A101J	CHIP R 100 J 1/10W		
R164			RK73FB2A100J	CHIP R 10 J 1/10W		
R165			RK73FB2A103J	CHIP R 10K J 1/10W		
R166			RK73FB2A183J	CHIP R 18K J 1/10W		
R171			RK73FB2A1R0J	CHIP R 1 J 1/10W		
R172			RK73FB2A4R7J	CHIP R 4.7 J 1/10W		
R173,174			RK73FB2A101J	CHIP R 100 J 1/10W		
R175-180			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R181,182			RK73FB2A101J	CHIP R 100 J 1/10W		
R183,184			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R185,186			RK73FB2A224J	CHIP R 220K J 1/10W		
R187,188			RK73FB2A104J	CHIP R 100K J 1/10W		
R189,190			RK73FB2A224J	CHIP R 220K J 1/10W		
R191,192			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R193,194			RK73FB2A122J	CHIP R 1.2K J 1/10W		
R195-198			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R201,202			RK73FB2A682J	CHIP R 6.8K J 1/10W		
R203,204			RK73FB2A103J	CHIP R 10K J 1/10W		
R205,206			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R207			RD14NB2E2R2J	RD 2.2 J 1/4W		
R221-223			RK73FB2A101J	CHIP R 100 J 1/10W		
Δ R233			R92-1885-05	METAL FILM 0.1 J 1/2W		
Δ R234			RD14NB2E4R7J	RD 4.7 J 1/4W		
R241-244			RK73FB2A123J	CHIP R 12K J 1/10W		
R251-256			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R257			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R258			RK73FB2A104J	CHIP R 100K J 1/10W		
R281			RK73FB2A473J	CHIP R 47K J 1/10W	TEH	
R282,283			RK73FB2A101J	CHIP R 100 J 1/10W	TEH	
R285			RK73FB2A101J	CHIP R 100 J 1/10W	TEH	
Δ R286			RK73FB2A2R2J	CHIP R 2.2 J 1/10W	TEH	
VR1			R12-3100-05	TRIMMING POT.(10K)		
VR2			R12-3101-05	TRIMMING POT.(22K)		
W1 -8			R92-0670-05	CHIP R 0 OHM		
W11 -14			R92-0670-05	CHIP R 0 OHM		
W21 ,22			R92-0670-05	CHIP R 0 OHM	TEH	

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W31			R92-0670-05	CHIP R 0 OHM		
S1		*	S90-0138-05	SWITCH COMPONENT		
D1			MA111	DIODE		
D2			1SS402	DIODE		
D3			UDZ3.9B	ZENER DIODE		
D4			MA111	DIODE		
D10			DAN202U	DIODE		
D12			UDZ5.1B	ZENER DIODE		
D21 ,22			MA111	DIODE		
D24			DA204U	DIODE		
D26			MA111	DIODE		
IC1		*	M30624MG-304FP	MI-COM IC		
IC2		*	S-80840ANY	ANALOGUE IC		
IC3 ,4		*	SI-3120F(1109)	ANALOGUE IC		
IC5			LM2940CT-5.0	ANALOGUE IC		
IC6			UPC2905HF	ANALOGUE IC		
			M62498AFP	ANALOGUE IC		
IC7			NJM2100M	IC(OP AMPLIFIER)		
IC8			CXA1821M	ANALOGUE IC		
IC9		*	CXD3017Q	MOS-IC		
IC10			BA5801FS	ANALOGUE IC	TEH	
IC12			BU1923F	ANALOGUE IC		
Q1			2SC4081(R,S)	TRANSISTOR		
Q1			2SC4116(Y,GR)	TRANSISTOR		
Q2			2SA1576A(R,S)	TRANSISTOR		
Q2			2SA1586(Y,GR)	TRANSISTOR		
Q3			DTA124EUA	DIGITAL TRANSISTOR		
Q3			UN5112	DIGITAL TRANSISTOR		
Q4			2SC4081(R,S)	TRANSISTOR		
Q4			2SC4116(Y,GR)	TRANSISTOR		
Q10			2SA1577(Q,R)	TRANSISTOR		
Q11			DTA124EUA	DIGITAL TRANSISTOR		
Q11			UN5112	DIGITAL TRANSISTOR		
Q12			DTC143TUA	DIGITAL TRANSISTOR		
Q12			UN5216	DIGITAL TRANSISTOR		
Q13			2SC4213(B)	TRANSISTOR		
Q15			DTC124EUA	DIGITAL TRANSISTOR		
Q15			UN5212	DIGITAL TRANSISTOR		
Q16 -19			2SA1576A(R,S)	TRANSISTOR		
Q16.-19			2SA1586(Y,GR)	TRANSISTOR		
Q20.-22			2SK2158	TRANSISTOR		
Q28			2SB1640	TRANSISTOR		
A1		*	W02-2741-05	TUNER ASSY	KMX	
A1		*	W02-2742-05	TUNER ASSY	TEH	
CD MECHANISM (D40-1674-05)						
1	2A		J21-6716-08	MOUNTING HARDWARE ASSY(FRONT)		
2	2B		J21-6718-08	MOUNTING HARDWARE ASSY(REAR)		
3	1B		A11-1162-08	SUB CHASSIS ASSY(DISC GUIDE)		
4	1B		G01-4133-08	EXTENSION SPRING(ARM L)		
5	1A		G01-4135-08	EXTENSION SPRING(LOCK)		
6	1B		G01-4136-08	EXTENSION SPRING(TRIGGER A)		
7	1A		A11-1160-08	SUB CHASSIS ASSY(CLAMP)		
8	1A		G16-0971-08	SHEET(CLAMP)		

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Y : PX(Far East,Hawaii)

Y : AAFES(Europe)

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Q : Russia

R : Mexico

G : Germany

H : Korea

C : China

V : China(Shanghai)

M : Other Areas

I : Malaysia

Δ indicates safety critical components .

PARTS LIST

RXD-M52

PARTS LIST

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

15						Re- marks
Ref. No	Add- ress	New Parts	Parts No.	Description	Desti- nation	
9	1A		A11-1166-08	SUB CHASSIS ASSY(ROLLER UNIT)		
10	2A		A11-1157-08	SUB CHASSIS ASSY(ROLLER)		
11	3A		A11-1158-08	SUB CHASSIS CAULKING ASSY(ROLLER)		
12	2A		D14-0670-04	ROLLER		
13	3A		D10-3878-08	ROD		
14	3A		D23-0333-08	RETAINER		
15	3B		D13-1939-08	GEAR(ROLLER)		
16	3A		B09-0266-08	CAP		
17	2A		J90-0869-08	GUIDE(DISC)		
18	2A		W10-0704-04	PRISM		
19	2A		J21-6720-08	MOUNTING HARDWARE(GUIDE)		
20	1A,2A		G01-4134-08	EXTENSION SPRING(ROLLER)		
23	2B		D13-1933-08	GEAR(PULLEY)		
24	2B		D13-1934-08	GEAR(A)		
25	1A		T50-1082-08	YOKE		
26	2B		D13-1935-08	GEAR(B)		
27	3B		D13-1936-08	GEAR(C)		
28	3B		D10-3875-08	SLIDER ASSY(CHASSIS LOCK)		
30	1B		D10-3888-08	SLIDER(DISC GUIDE)		
31	2B		D10-3877-08	ARM(TRIGER)		
32	3B		D10-3873-18	SLIDER ASSY(DRIVE)		
33	1A		J11-0845-08	CLAMPER		
35	3B		D13-1937-08	GEAR(IDLER)		
36	2B		D13-1938-08	GEAR(FINAL)		
37	2B		A10-3474-08	CHASSIS ASSY(MAIN)		
38	3B		D16-0729-08	BELT		
39	2A		J02-1448-05	INSULATOR(RED)		
40	2B		J02-1447-05	INSULATOR(GREEN)		
41	3B		G01-4131-08	EXTENSION SPRING(SLIDER)		
42	3A		G01-4132-08	EXTENSION SPRING(CHASSIS LOCK)		
49	2B		D40-1639-05	TRAVERSE UNIT(KSM-770)		
50	3A		J26-0096-08	PCB ASSY		
51	3A		J80-0024-08	FPC		
52	3B		E35-2353-05	FFC(9P)		
53	1A		G16-0973-08	SHEET		
54	3B		T42-0946-08	MOTOR ASSY		
AA			N09-5129-08	SCREW	1.6X4X0.5	
AB			N89-2606-46	SCREW		
AC			N09-5113-08	SCREW		
AD			N19-1105-04	WASHER		
AE			N09-3366-08	SCREW		
CASSETTE MECHANISM (D40-1673-05)						
625			D40-1673-05	MECHANISM ASSY		
BM			D16-0740-08	MAIN BELT		
BS			D16-0705-08	SUB BELT		
PF			D14-0380-08	FWD PINCH ROLLER		
PR			D14-0381-08	REW PINCH ROLLER		

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SPECIFICATIONS

Main unit

[Amplifier section]

(For U.K. and Europe)

Rated output power during STEREO operation

1 kHz, 1.0 % T.H.D., at 6 Ω 15 W + 15 W

Effective output power during STEREO operation

1 kHz, 10 % T.H.D., at 6 Ω 20 W + 20 W

(For U.S.A. and Canada)

Rated output power during STEREO operation

15 watts per channel minimum RMS, both channels driven, at
6 Ω from 60 Hz to 20 kHz with no more than 0.9 % total har-
monic distortion. (FTC)

(For other countries)

Rated output power during STEREO operation

1 kHz, 10 % T.H.D., at 6 Ω 20 W + 20 W

Frequency response

AUX 50 Hz~50 kHz (0 dB ~ -3dB)

[Tuner section]

FM tuner section

Tuning frequency range..... 87.5 MHz ~ 108 MHz

MW (AM) tuner section

Tuning frequency range 531 kHz ~ 1,602 kHz

(For U.K., Europe and Australia) 530 kHz ~ 1,700 kHz

(For U.S.A. and Canada) 531 kHz ~ 1,602 kHz

(For Other countries)

9 kHz step..... 530 kHz ~ 1,610 kHz

10 kHz step..... 531 kHz ~ 1,602 kHz

[CD player section]

Laser wave length..... 760 to 800 nm

Laser power class..... Class 3A

Laser Semiconductor laser

D/A Conversion..... 1 Bit

Oversampling 8 fs (352.8 kHz)

Frequency response 20 Hz~20 kHz ± 1 dB

Wow and flutter Less than unmeasurable limit

[Cassette deck section]

Track 4-track, 2-channel stereo

Recording system AC bias system

(Frequency : 105 kHz)

Heads

Playback / recording head 1

Erasing head 1

Motors 0.2 % (W.R.M.S.)

Wow and flutter 1

Fast winding time Approx. 100 seconds

(C-60 tape)

[General]

Power consumption 60 W

Dimensions

(Horizontal installation) W: 220 mm (8-11/16")

(Vertical installation) H : 150 mm (5-7/8")

..... D : 356 mm (14")

..... W : 142 mm (5-9/16")

..... H : 228 mm (9")

..... D : 356 mm (14")

Weight (net) 6.1 kg (13.4lb)

Note:
Component and circuit are subject to modification to insure best operation under dif-
fering local conditions. This manual is based on Europe (E) standard, and provides
information on regional circuit modification through use of alternate schematic dia-
grams, and information on regional component variations through use of parts list.

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