

# RD-M52MD/M72MD

## SERVICE MANUAL

(HM-582MD/682MD/782MD)

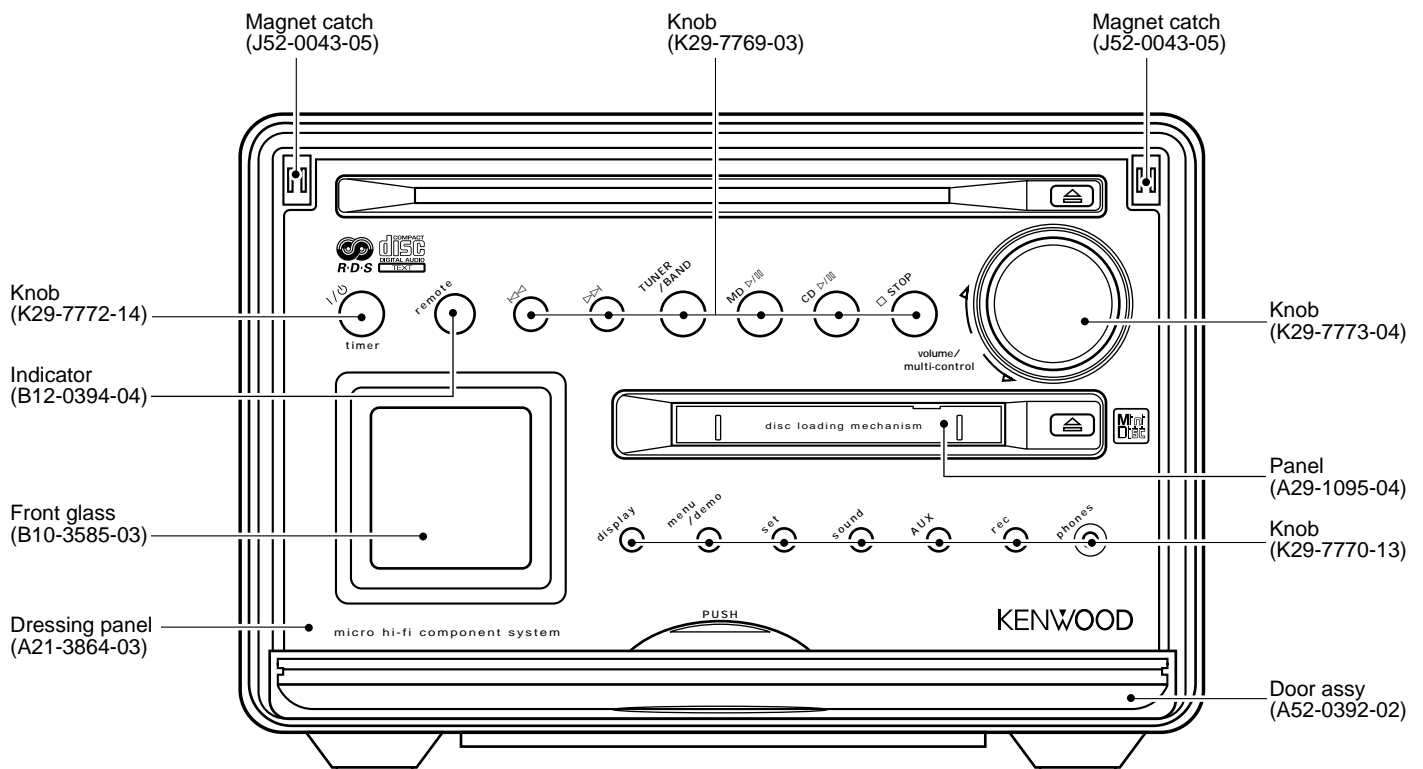


Illustration is RD-M52MD-L.

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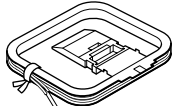
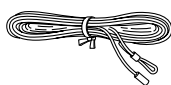
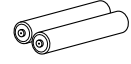
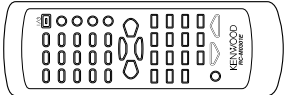


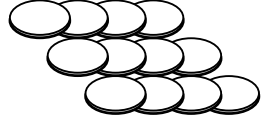

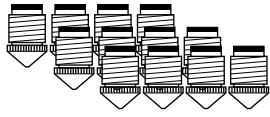
# RD-M52MD/M72MD

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### Contents

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### Accessories

<p>AM loop antenna (1) (T90-0852-05)</p> 	<p>FM indoor antenna (1) (T90-0858-05)</p> 	<p>Batteries (R6/AA) (2)</p> 
<p>Remote control unit (1)</p> 	<p>Speaker cord (2)</p> 	<p>Feet for speaker (8)</p> 
<p><b>RD-M72MD ONLY</b></p>		
<p>Anti-slip sheets (12) (G16-0878-14)</p> 	<p>Cleaning cloth (1) (W01-0990-04)</p> 	<p>Pin spikes (12) (D21-1974-04)</p> 

### System configuration

SYSTEM	MAIN UNIT	DESTINATION	SPEAKER	SP CORD PARTS No	FOOT FOR SPEAKER
HM-582MD-L	RD-M52MD-L	ETH	LS-M52-L	E30-5828-05	J02-0624-08
HM-682MD	RD-M52MD-S	T2	LS-M52-S	E30-5828-05	J02-0624-08
HM-782MD	RD-M72MD	ETH	LS-M72	E30-5880-05	J02-0626-08

### Remocon configuration

REMOTE CONTROLLER	MODEL NAME	MODEL	DESTINATIONS	BATTERY COVER
A70-1385-05	RC-M0507E-IT	RD-M72MD	THE	A09-1183-08
A70-1399-05	RC-M0301E	RXD-M52MD-S	T2	A09-1161-08
A70-1399-05	RC-M0301E	RXD-M52MD-L	THE	A09-1161-08

### 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.

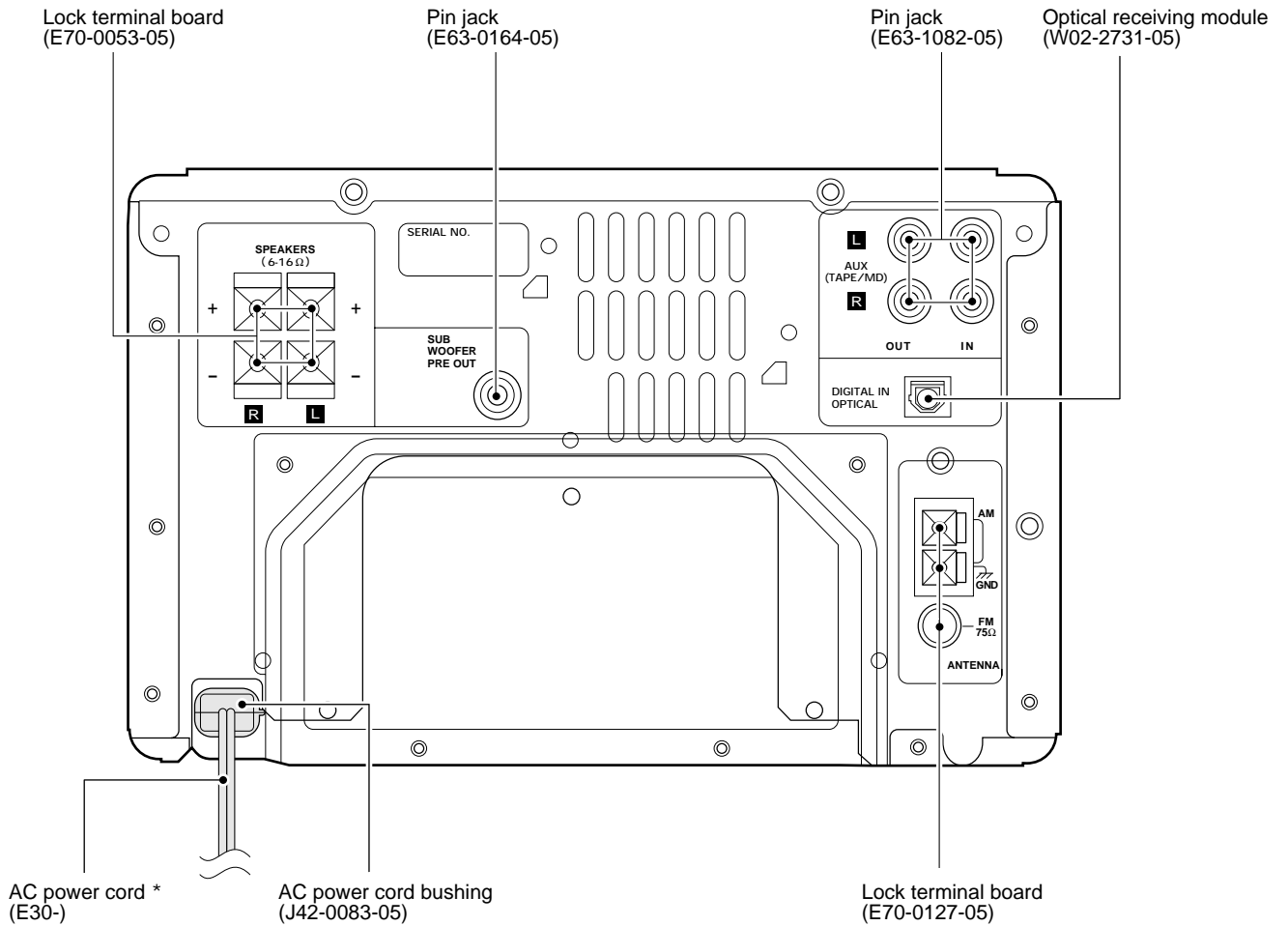
- Please note that resetting the microcomputer clears the contents stored in and it returns to condition when it left the factory.

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



# RD-M52MD/M72MD

## EXTERNAL VIEW



# RD-M52MD/M72MD

## CIRCUIT DESCRIPTION

### 1.Initializing the CD/MD Receiver

#### 1-1Initialization Method

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

#### 1-2 Contents of Initialization

- ① MD disc will not be ejected from MD mechanism.
- ② CD disc will be ejected from CD mechanism.

### 2.Conditions according to the Destination

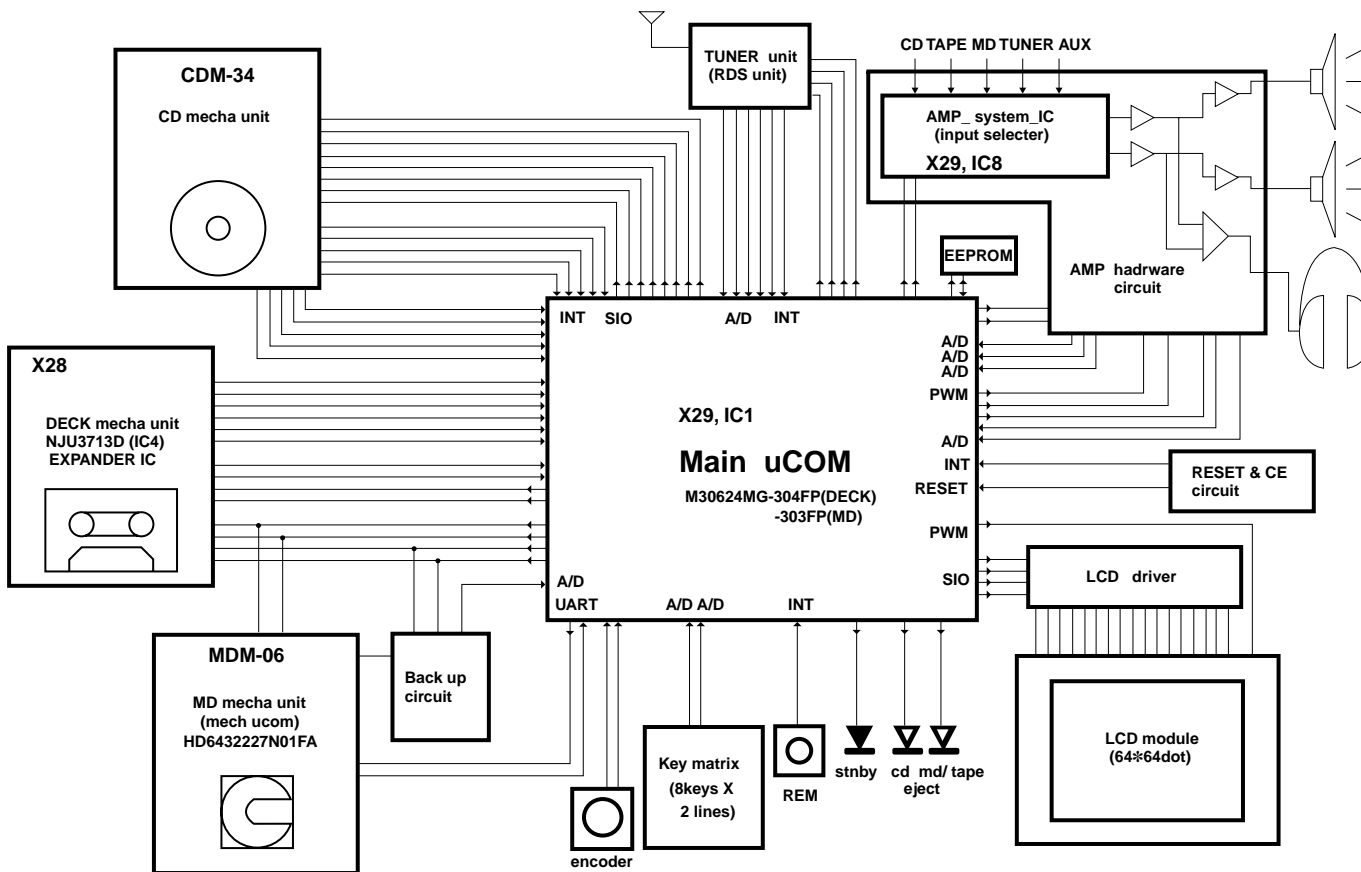
( ) Port of Microprocessor

UNIT	DESTI-NATION	DESTINATION SW			BAND	RECEIVING FREQUNY 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



# RD-M52MD/M72MD

## 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.

# RD-M52MD/M72MD

## CIRCUIT DESCRIPTION

Pin No.	Pin Name	I/O	Description
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.
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 contro 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 horizontol. 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 CD TEST-22	Hi speed (CD servo) when stop mode Normal speed (CD servo) when stop mode.
set	CD TEST-05	FF operation when servo on. Sled out when servo off.

## CIRCUIT DESCRIPTION

### 5 Initializing the MD Mechanism

#### 5-1 Initialization Method

While pressing the MD [PLAY/PAUSE] key and MD [EJECT] key simultaneously, turn the AC on.

### 6. MD Test Mode for Adjustment

#### 6-1 Entering the Test Mode

While pressing the MD [PLAY/PAUSE] key and [rec] key simultaneously, turn the AC on.

#### 6-2 Cancelling the Test Mode

Turn the AC off.

#### 6-3 Key Operations for Adjustment

KEYS	OPERATION
Volume/multi-control	Select mode or adjustment value change.
MD PLAY/PAUSE	Fix mode or adjustment value.
STOP	Cancel the selected mode and change to menu page.
menu/demo	Select servo of PIT or GROOVE.
display	Change-over the display mode.
SKIP UP	Pickup moves outwards when pressed skip up key.
SKIP DOWN	Pickup moves inwards when pressed skip down key.

#### 6-4 LCD Indication for Mechanism Operation

LDC	DESCRIPTION
>	Servo on.
>>	Tracking servo on.
GRV	Servo groove mode.
CLV-S	Rough servo clock.
CLV-A	Spindle lock.
RECORD	Recordable disc or no disc.

#### 6-5 Selection of Adjustment Test Mode

Whenever the [volume/multi-control] knob is turned, the adjustment test mode is selected.

No.	LCD	DESCRIPTION	SECTION
1	TEMP ADJU	The work of adjustment is unnecessary in this mode.	7-5
2	LDPWR ADJU	Laser power adjustment.	7-6
3	LDPWR CHEC	Laser power check.	7-6
4	EFBAL ADJU	Traverse adjustment.	7-7
5	TE B. ADJ	Automatic EF balance adjustment.	-
6	FBIAS ADJU	Focus bias adjustment.	7-8
7	CPLAY MODE	Continuous playback mode.	6-6
8	CREC MODE	Continuous recording mode.	6-7
*9	STT-LIMIT	Check the mechanism start limit switch position.	-
*10	JUMP MODE	Track jump checking mode.	-
*11	SRV DAT RE	Servo data reading.	-
*12	EPP MODE	E2PPROM data reading or rewrite.	-
*13	EPP INITIAL	E2PPROM data initializing.	-

For more information on each adjustment mode, refer to each section of 7, "Electrical adjustment".

If other adjustment mode has been entered incorrectly, press the STOP key to exit the mode.

- \* The number 9 - 13 are not used for service. If these mode have been entered incorrectly, press the STOP key immediately to exit the mode. Specially, do not use EPP INITIAL. (E2PPROM data has initialized if used it.)

### 6-6 Continuous Playback Mode

1. Setting of Continuous Playback Mode		
No.	Key	Display/Function
1	Volume/multi-control	Select [CPLAY MODE]
2		Load disc
3	PLAY	[CPLAY MID] [c=xxxx a=yy] error (xxxx=C1 error, yy=ADIP error)
4	MODE	[CPLAY(zzzz)] CPLAY address (MID=0300h, OUT=0700h, IN=0030h cluster)
5	MODE	[h***d@@@] address (***=current head address, @@@=ADIP address)

In No.5, Display shows [-] if can't read disc.

2. Change of Playback Points(in continuous playback mode)		
No.	Key	Display/Function
1	PLAY	[CPLAY OUT]
2		Carry out No.4 and 5 in the above table.
3	PLAY	[CPLAY IN]
4		Carry out No.4 and 5 in the above table.
5	STOP	[CPLAY MODE]
6	EJECT	Disc out

### 6-7 Continuous Recording Mode

1. Continuous Recording Setting		
No.	Key	Display/Function
1	Volume/multi-control	Select [CREC MODE]
2		Load the recordable disc
3	PLAY	[CREC MID]
4	PLAY	[CREC (zzzz)] CREC address (0300h cluster=recording start point)
5	DISPLAY	[h***d@@@] address
6	DISPLAY	[c=xxxx a=yy] error
7	DISPLAY	[CREC (zzzz)]
8	STOP	[CREC MODE]

2. Change and End of Recording Points		
No.	Key	Display/Function
1		Carry out No.1 to 3 in the above table Select[CREC MID]
2	Volume/multi-control	[CREC OUT]
3	PLAY	[CREC (zzzz)] CREC address (0700h cluster=recording start point) Carry out No.5 to 8 in the above table
4	PLAY	Select [CREC MID]
5	Volume/multi-control	Select [CREC IN]
6	PLAY	[CREC (zzzz)] CREC address (0300h cluster=recording start point) Carry out No.5 to 8 in the above table
7	EJECT	Disc out

Starting address is the followings.

IN=30h cluster, MID=300h cluster, OUT=700h cluster

1. The recording start addresses of IN, MID, and OUT are described below.  
IN 30H cluster  
MID 300H cluster  
OUT 700H cluster
2. An erasure prevention control is not detected in the test mode. Be careful not to enter the continuous recording mode using a disc containing the data that should not be erased.
3. Do not record continuously for more than five minutes.
4. Take care that no vibration is applied during continuous recording.

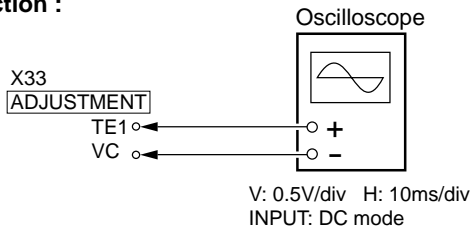




## CIRCUIT DESCRIPTION

### 7-7 EF Balance(Traverse Adjustment)

Connection :



1. Recordable Disc		
No.	Key	Display/Function
1		Connect the oscilloscope to TE1 and VC in X33 pcb
2	Volume/multi-control	Select [EFBAL ADJU]
3		Load the recordable disc
4	PLAY	[EFBAL MO-W]
5	PLAY	[EF=\$**MOW]
6	Volume/multi-control	Write power adjustment. Adjust the waveform as follows.
7	PLAY	Display shows [EF=\$**MOR] after [EFB=**xSAVE] to save the data in E2PROM. <i>Mode changes write to read</i> Focus and disc servo are on. Tracking servo off.
8	Volume/multi-control	Read power adjustment. Adjust the waveform as follows.
9	PLAY	Save the data in E2PROM. Display shows [EFBAL MO-P]
	PLAY	Display shows [EF=\$**MOP] (Pickup travels to search pits and tune the servo to on.)
10	Volume/multi-control	Adjust the waveform as follows.
11	PLAY	Display shows [EFB=**xSAVE] to save the data in E2PROM. Display shows [EFBAL CD] disc motor stops.
12	EJECT	Unload disc.
2. Pre Master Test Disc(TGYS-1)		
No.	Key	Display/Function
1		Load the disc(TGYS-1).
2	PLAY	[EF=\$**CD] servo is on
3	Volume/multi-control	Adjust the waveform as follows.
4		Save the data in E2PROM. Display shows [EFB=**xSAVE] in brief time. [EFBAL ADJU]
5	EJECT	Unload disc.

During this adjustment, the oscilloscope changes in units of about 2%. Adjust so that the waveform comes nearest to the specified value. (MO groove read power traverse adjustment)

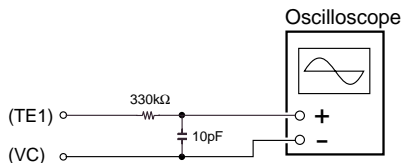
(Traverse waveform)



Specification : A = B

Notes :

- Data is erased during MO write when a recorded disc is used for this adjustment.
- If the traverse waveform is difficult to be monitored, connect an oscilloscope as shown in the figure below.



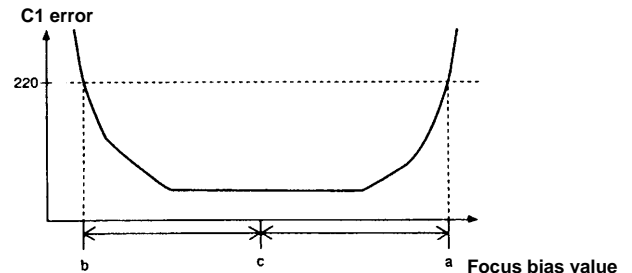
### 7-8 Focus Bias Adjustment

Use the special disc(continuous recorded disc)

No.	Key	Display/Function
1	Volume/multi-control	Select [FBIAS ADJU]
2		Load the disc.
3	PLAY	[a=xx yyyy/] point a (xx=focus bias, yyyy=C1 error)
4	Volume/multi-control	Adjust "yyyy" to 220*
5	PLAY	[b=xx yyyy/] point b
6	Volume/multi-control	Adjust "yyyy" to 220*
7	PLAY	[xx yyyy/] point c Check "yyyy" within 50
8	PLAY	Display shows [aa bb cc(xx)] focus bias adjust (aa= point a, bb=b, cc=c )

\* Notes :

- The relation between the C1 error and focus bias value is shown in the figure below. Points "a" and "b" in the figure are detected by the above adjustment. Focal position "C" is automatically obtained from points "a" and "b" by calculation.
- The C1 error rate fluctuates. Therefore, perform the adjustment according to the observed mean value.



### 7-9 Error Rate Check

No.	Key	Display/Function
1. CD Error Rate		
1	Volume/multi-control	[CPLAY MODE]
2		Load the test disc(TGYS-1)
3	PLAY	Display shows [CPLAY MID] Access end [c=xxxx a=yy] xxxx=C1 error (lower 20) yy=AIDP error
4	STOP	[CPLAY MODE]
5	EJECT	Unload disc.
2. MO Error Rate		
No.	Key	Display/Function
1	Volume/multi-control	[CPLAY MODE]
2		Load the recordable disc
3	PLAY	Display shows [CPLAY MID] Access end [c=xxxx a=yy] xxxx=C1 error (lower 50) yy=AIDP error(00)
4	STOP	[CPLAY MODE]
5	EJECT	Unload disc.

# RD-M52MD/M72MD

## 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 or05.	-	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.

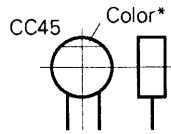
# RD-M52MD/M72MD

## PARTS DESCRIPTIONS

### CAPACITORS

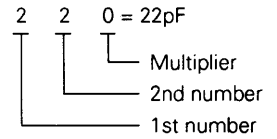
CC 45 TH 1H 220 J  
 1 2 3 4 5 6

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

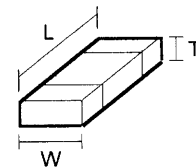
(Chip) (B,F)

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

#### Dimension



#### Dimension (Chip resistor)

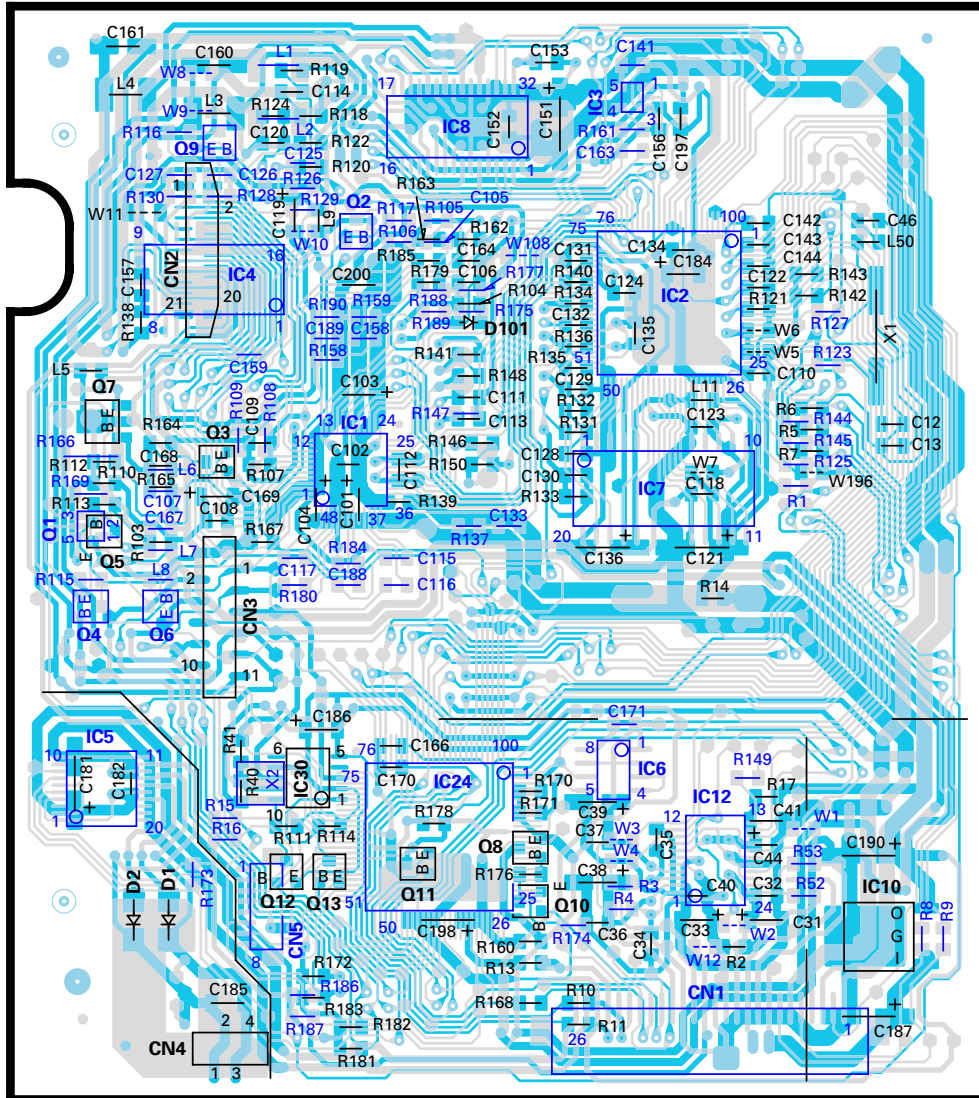
Dimension code	L	W	T
E	3.2 ± 0.2	1.6 ± 0.2	1.0
F	2.0 ± 0.3	1.25 ± 0.2	1.0
G	1.6 ± 0.2	0.8 ± 0.2	0.5 ± 0.1

#### Rating wattage

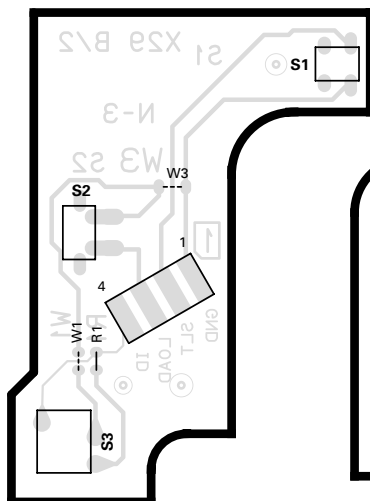
Code	Wattage	Code	Wattage	Code	Wattage
1J	1/16W	2C	1/6W	3A	1W
2A	1/10W	2E	1/4W	3D	2W
2B	1/8W	2H	1/2W		

# PC BOARD (Component side view)

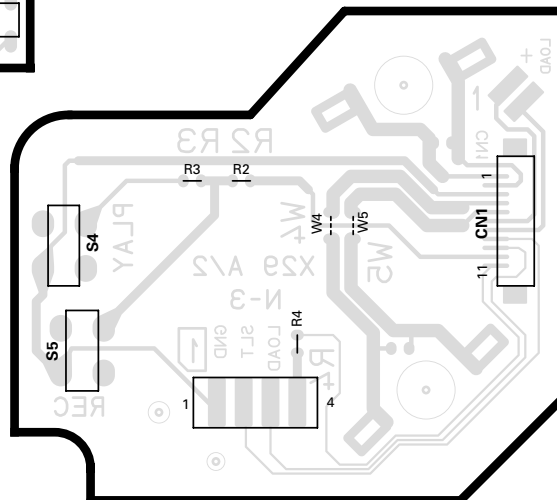
X33-1190-0X (J70-1311-12)



X29 B/2

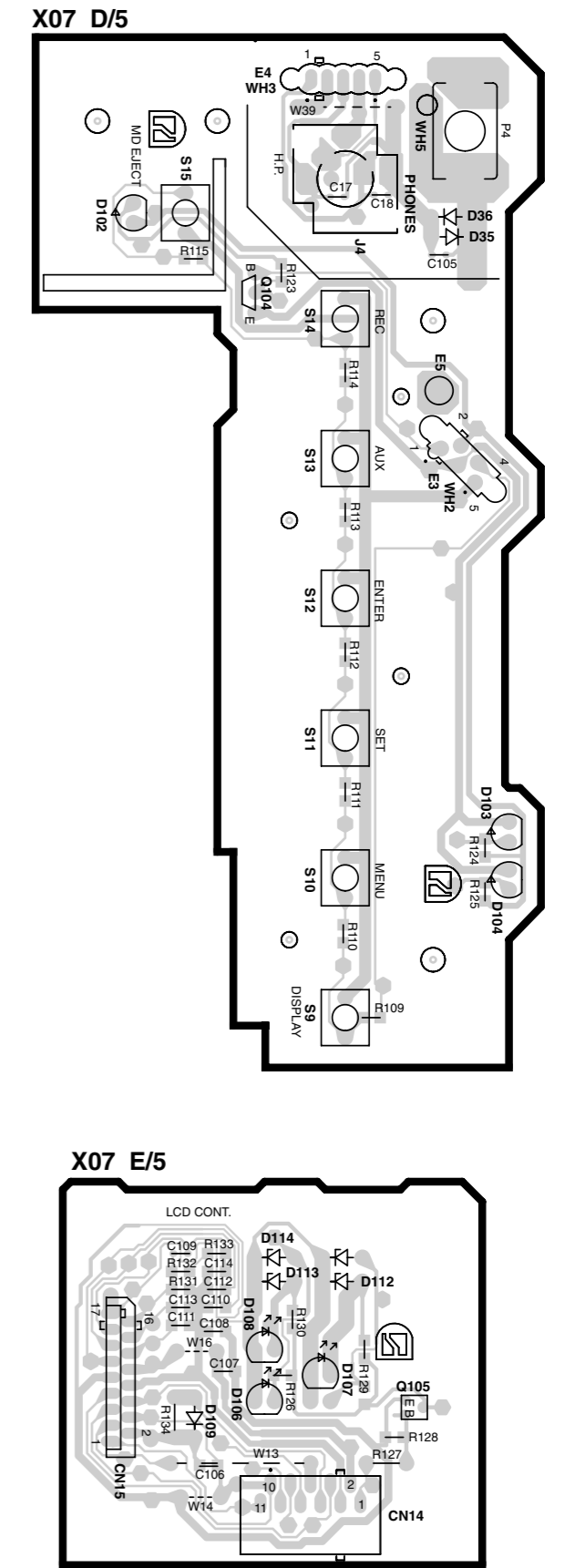
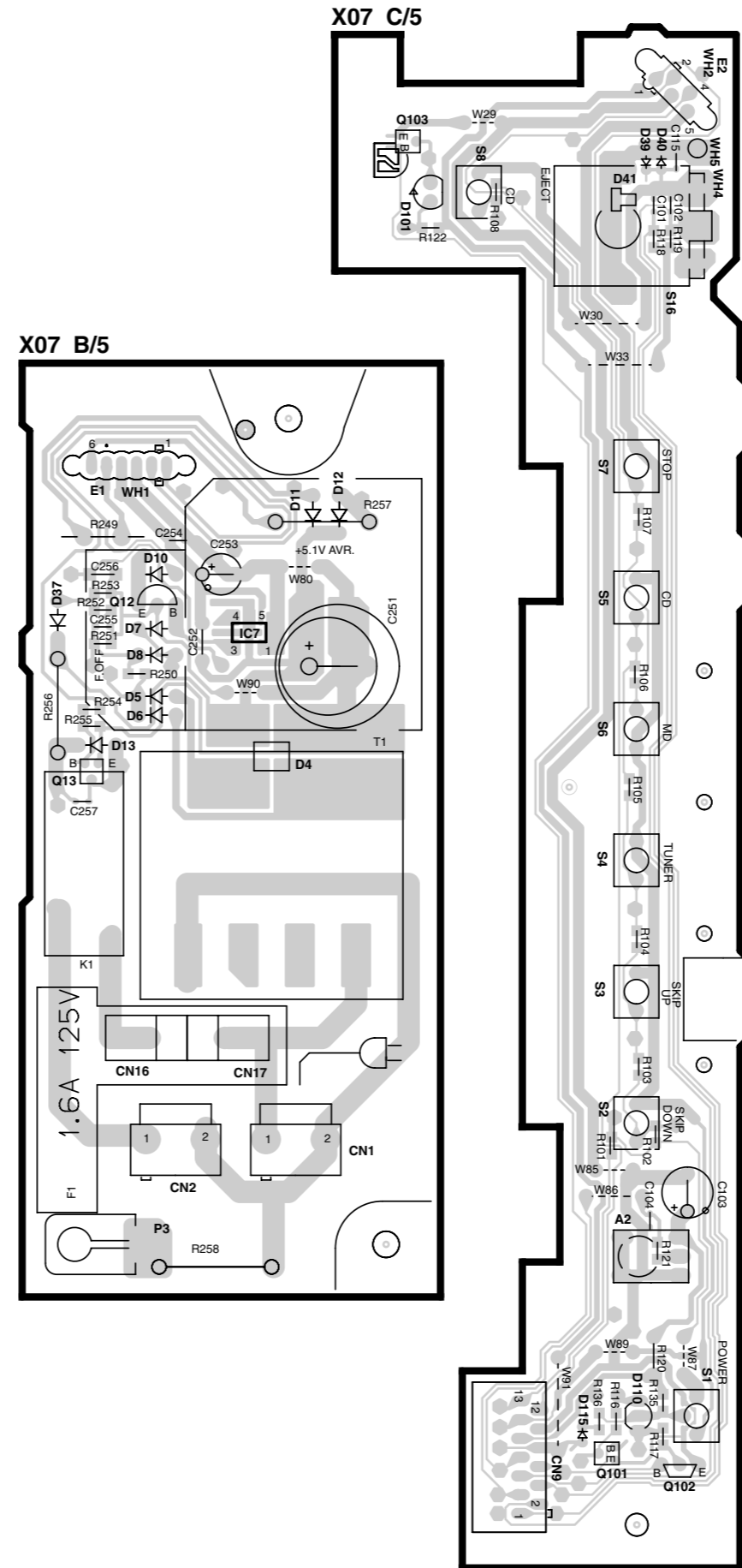
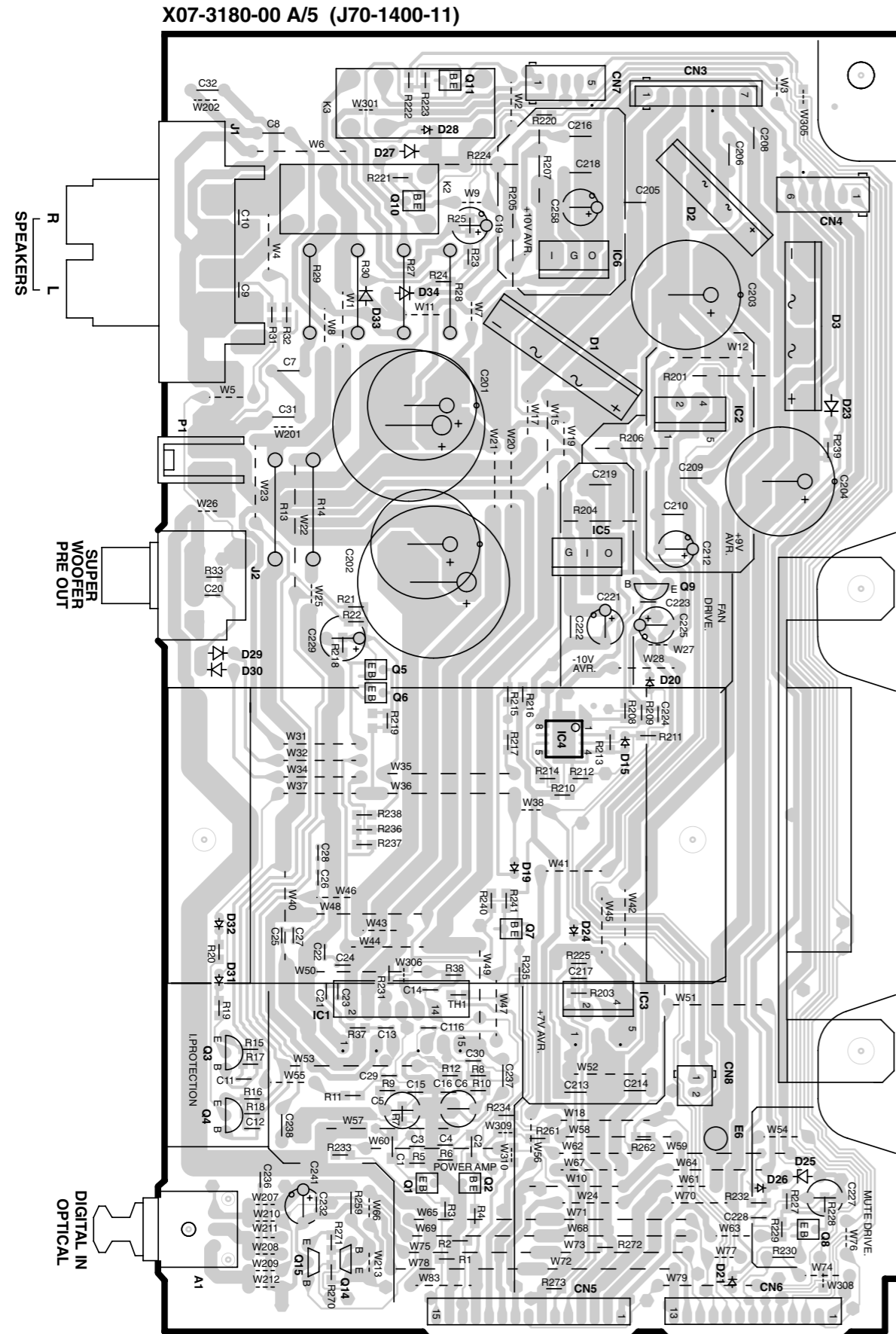


X29-2650-00 A/2  
(J70-1307-02)



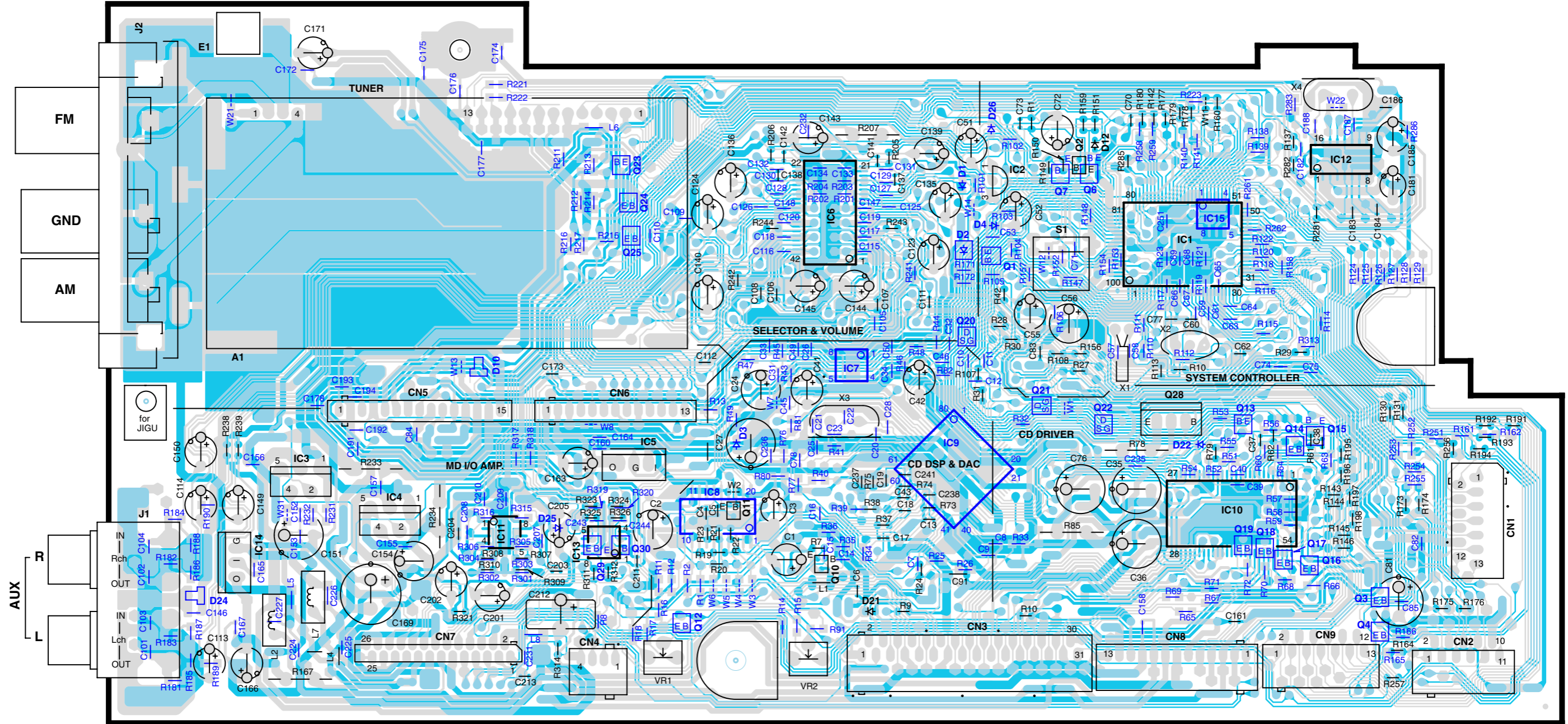
Refer to the schematic diagram for the value of resistors and capacitors.

# PC BOARD (Component side view)

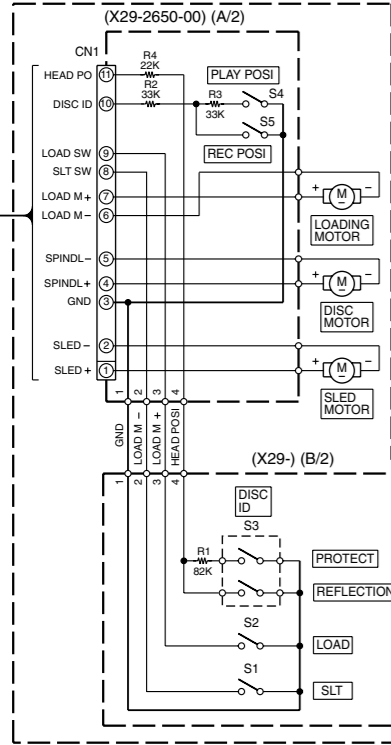


# PC BOARD (Component side view)

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



MD MECHANISM  
(D40-1675-05) : MDM-06

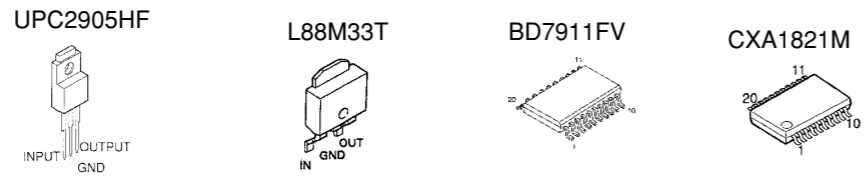
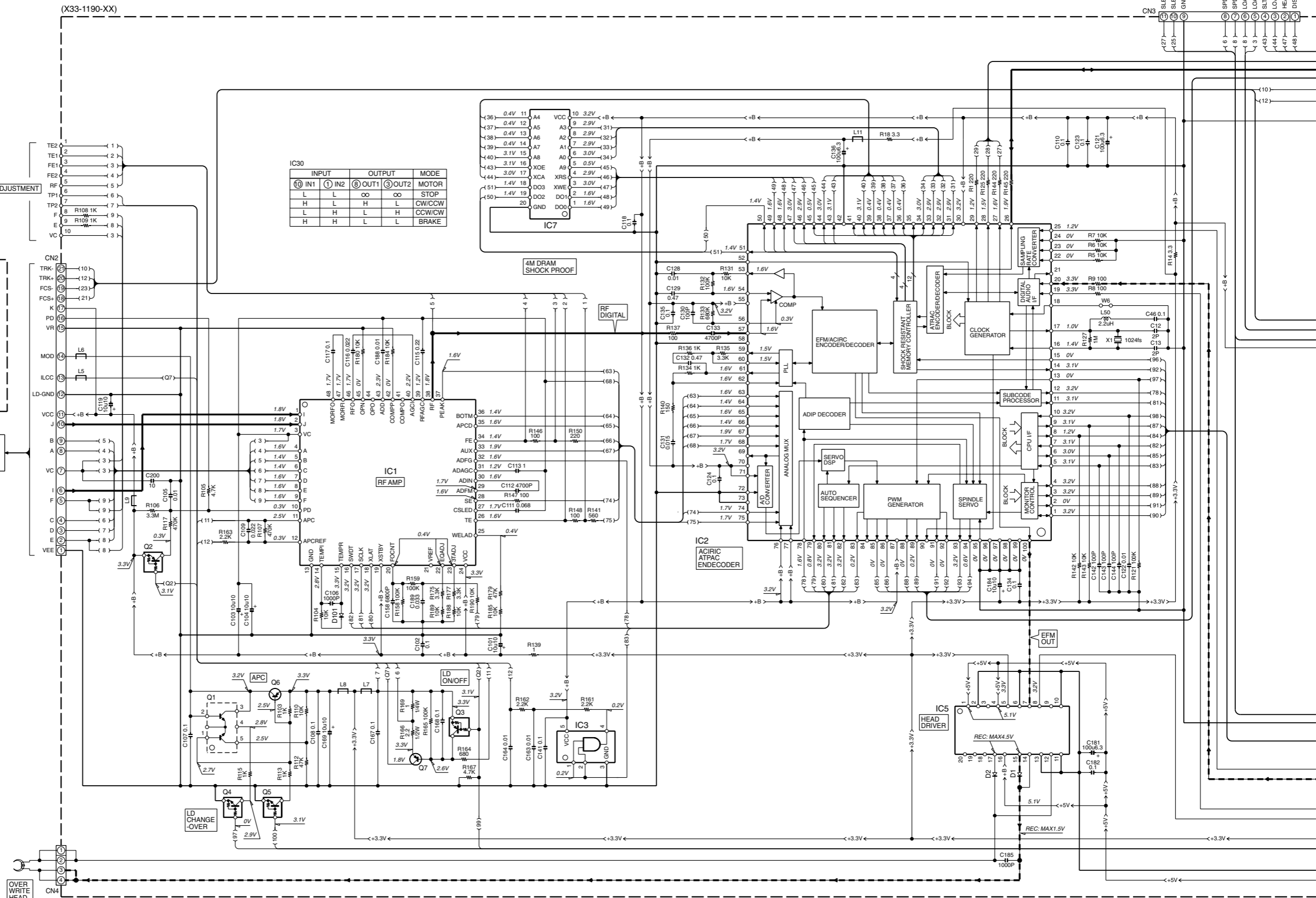


- IC1 : CXA2523AR
- IC2 : CXD2654R
- IC3 : HD74UH08
- IC4 : TA8406F
- IC5 : BD7911FV
- IC6 : BR24C02F or S-24C02BFJ-TB
- IC7 : HM51W4400BT-7 or LC32S4400T-10 or MN41V4400TT-08
- IC8 : BH6511FS
- IC10 : L88M33T
- IC12 : AK4522-VF
- IC24 : HD643227N06FA
- IC30 : TA8409F
- Q1 : FMW1
- Q2,3 : DTA144EUA
- Q4,5 : DTC114YUA
- Q6,8,23 : 2SA1576A(R,S)
- Q7 : 2SB798-DL
- Q9 : DTA124EUA
- Q10-13 : DTC124EUA
- D1,2 : F1J6TP
- D101 : MA111

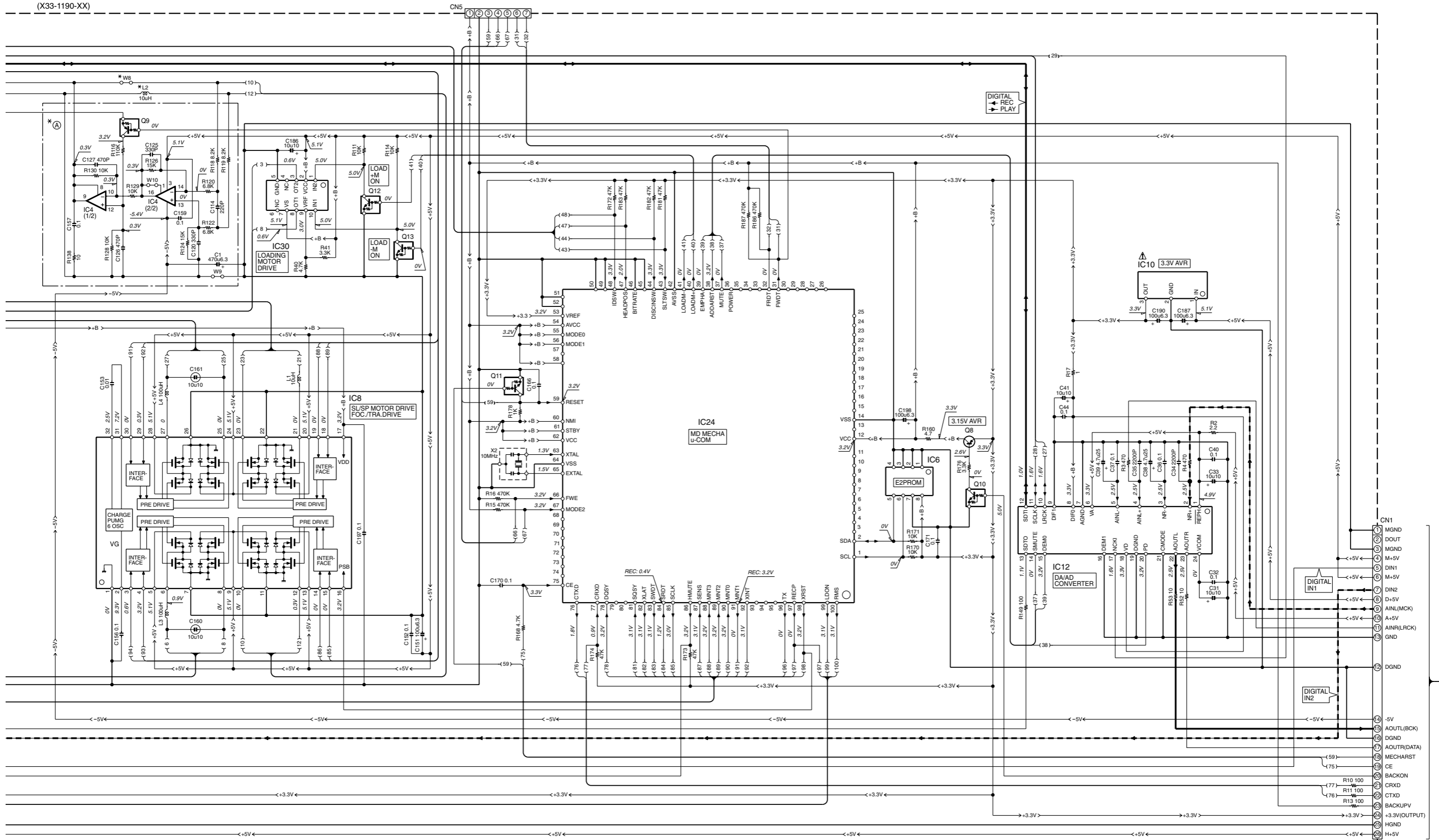
RD-M72MD (X33-1190-01)					
DESTINATION	UNIT	(A)	WB	L2	
COUNTRY	ABB.	No.			
U.K.	T				
EUROPE	E	0-01	NO	YES	YES
KOREA	H				

RD-M52MD-L/S (X33-1190-02)					
DESTINATION	UNIT	(A)	WB	L2	
COUNTRY	ABB.	No.			
U.K.	T,T2				
EUROPE	E	0-02	YES	NO	NO
KOREA	H				



(X33-1190-XX)



RD-M52MD-L (1/3)

**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ 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. The measurement value may vary depending on the measuring instruments used or on the product. Refer to the voltage during RECORDABLE MD PLAY unless otherwise specified; The value shown in ( ) is the voltage measured at the moment of STOP. The voltage followed by (REC) refers to the value during MD RECORDING.

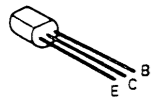
# RD-M52MD/M72MD

Y39-3490-51

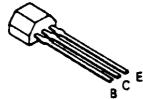
KENWOOD



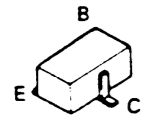
2SA992 2 2SD863  
2SC1845  
2SC3940A



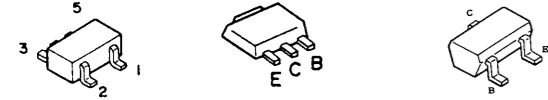
DTA124ESA 2SA1048  
DTC124ESA  
UN4112



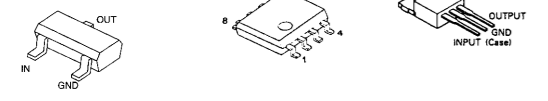
DTA144EUA 2SC4116  
DTC114YUA  
DTC143TUA  
UN5216  
2SA1576A  
2SA1586



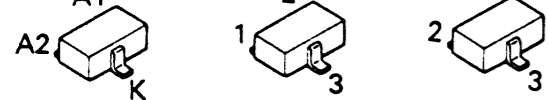
FMW1 2SB798-DL 2SC4081



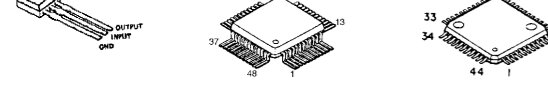
DTA124EUA NJM2904M LM2940CT-5.0  
DTC124EUA



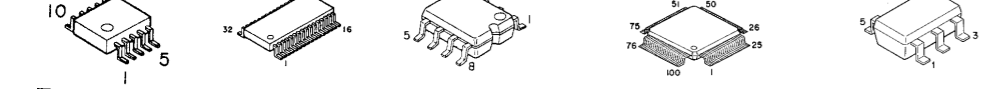
DAN202U DA204U UN5212



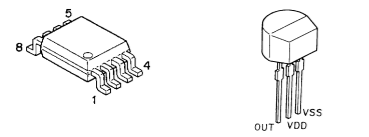
TA79005SB CXA2523AR SI-3050C



TA8409F BH6511FS BR24C02F CXD2654R HD74UH08



NJM2100M S-80840ANY



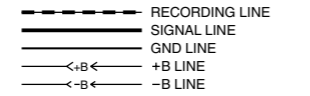
RXD-M52-L (X29-270X-XX)

DESTINATION	COUNTRY	ABB.	UNIT No.	ⓑ	Ⓒ	Ⓓ	Ⓔ	A1	C107,108,117,118,152,165,167,169,232,254	C111,112	C139,140	C151	C154	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																										
AUSTRALIA	X																												
U.K.	T					NO	YES	W02-2741																					
EUROPE	E		2-73	YES				W02-2742																					
KOREA	H																												

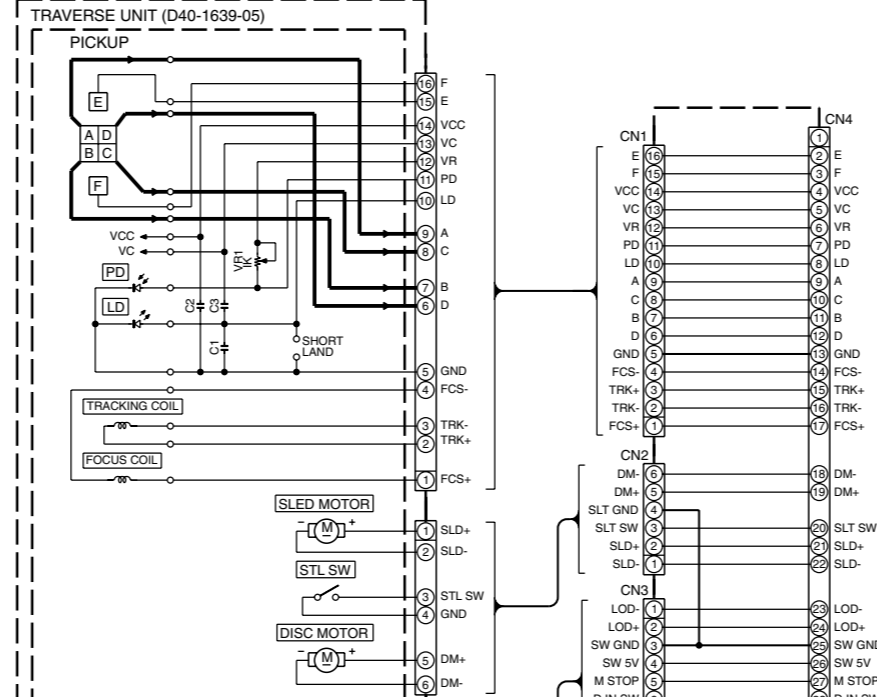
RD-M72MD (X29-2702-72)

DESTINATION	COUNTRY	ABB.	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							
U.K.	T		2-72	YES		NO		W02-2742																					
EUROPE	E																												
KOREA	H																												

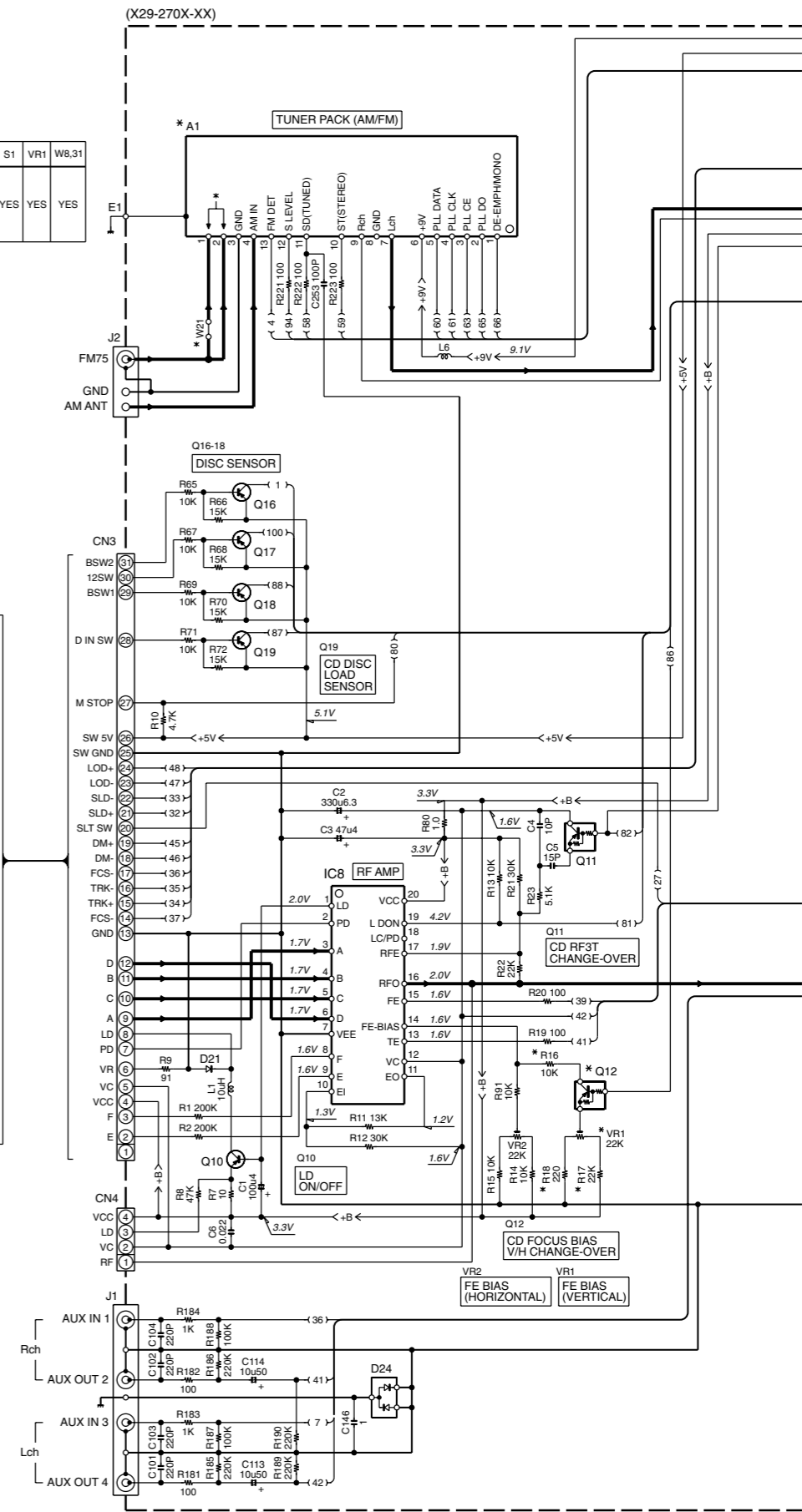
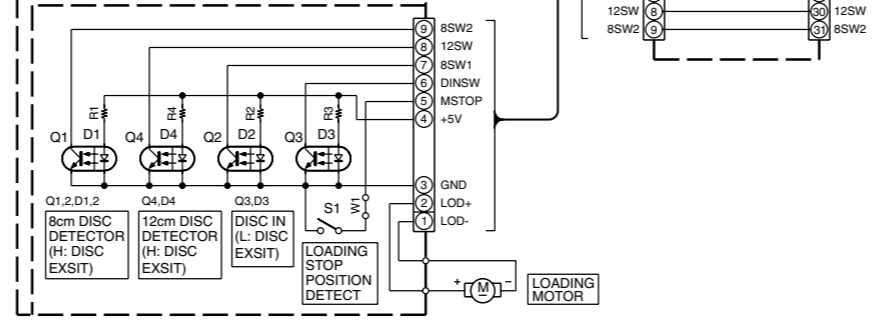
- IC1 : \*
- IC2 : S-80840ANY
- IC3 : \*
- IC4 : \*
- IC5 : uPC2905HF or LM2940CT-5.0
- IC6 : M62498AFP
- IC7,11,13 : NJM2100M
- IC8 : CXA1821M
- IC9 : CXD3017Q
- IC10 : BA5801FS
- IC12 : BU1923F
- IC14 : TA79005SB
- Q1,4 : 2SC4081(R,S) or 2SC4116(Y,GR)
- Q2,16-19 : 2SA1576A(R,S) or 2SA1586(Y,GR)
- Q3,7,11 : UN5112 or DTA124EUA
- 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



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



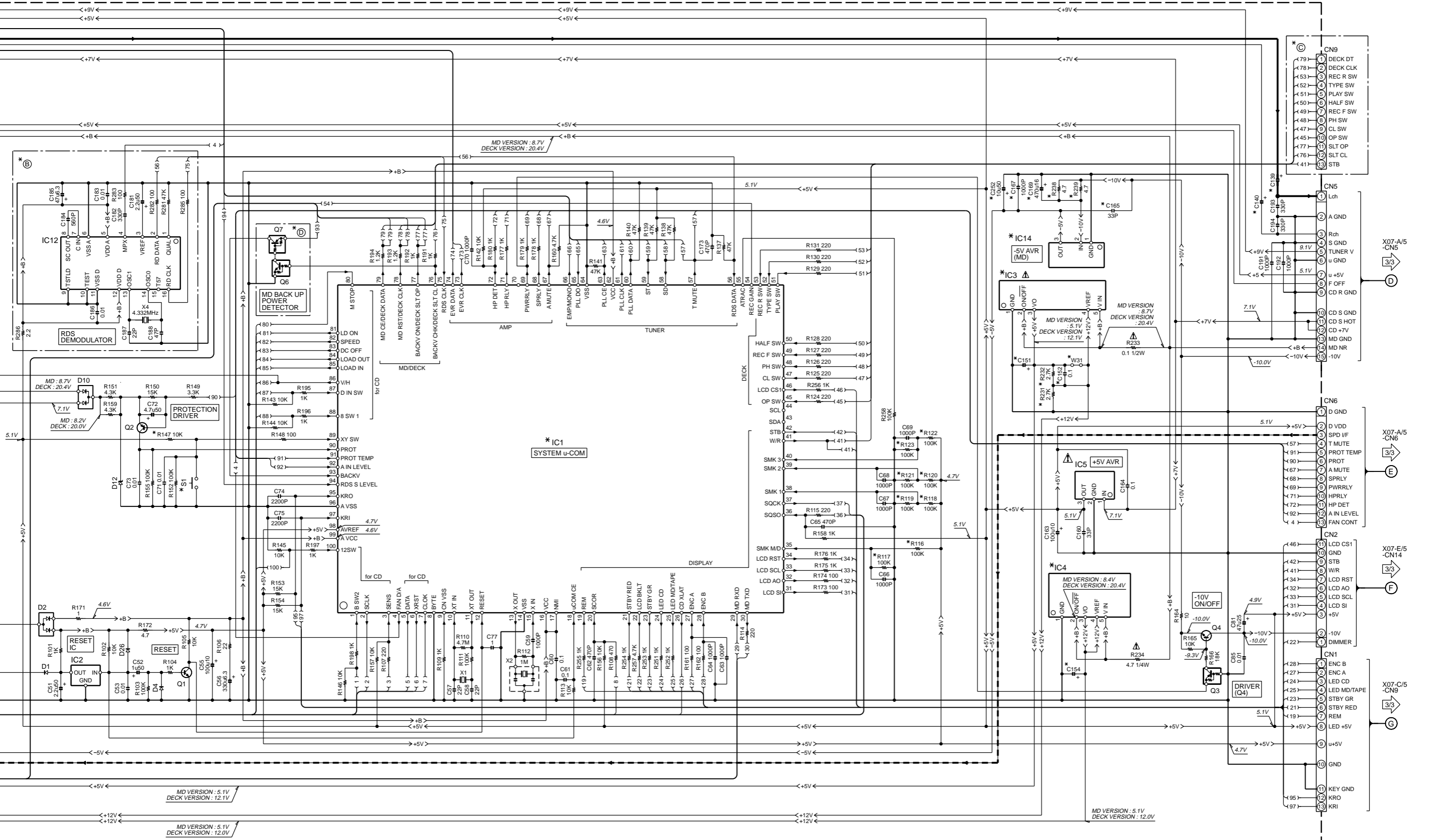
SW PCB (X29-2660-00)



**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  $\Delta$  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. The measurement value may vary depending on the measuring instruments used or on the product. Refer to the voltage during PLAY unless otherwise specified; The value shown in ( ) is the voltage measured at the moment of STOP.

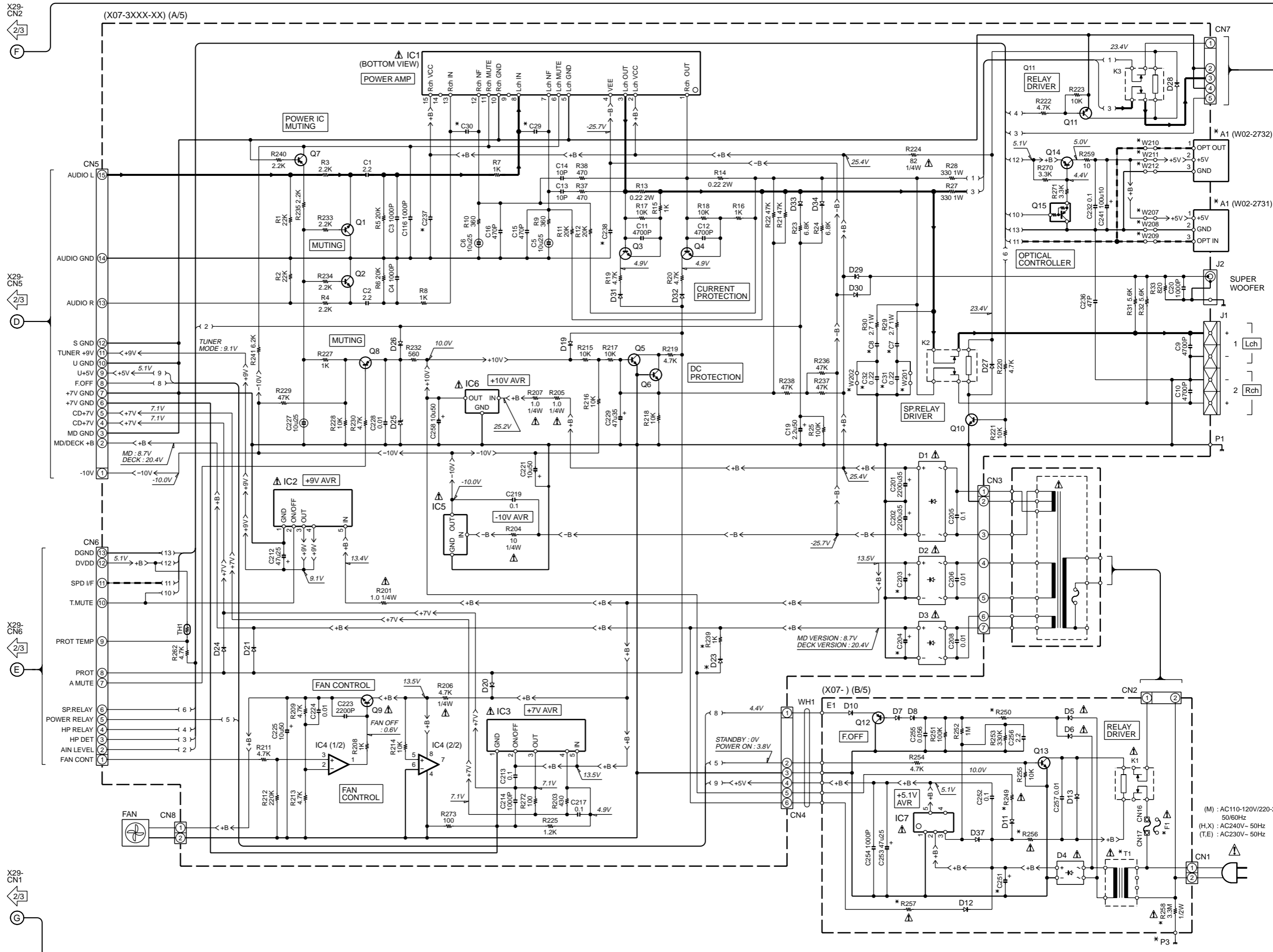




# RD-M52MD/M72MD

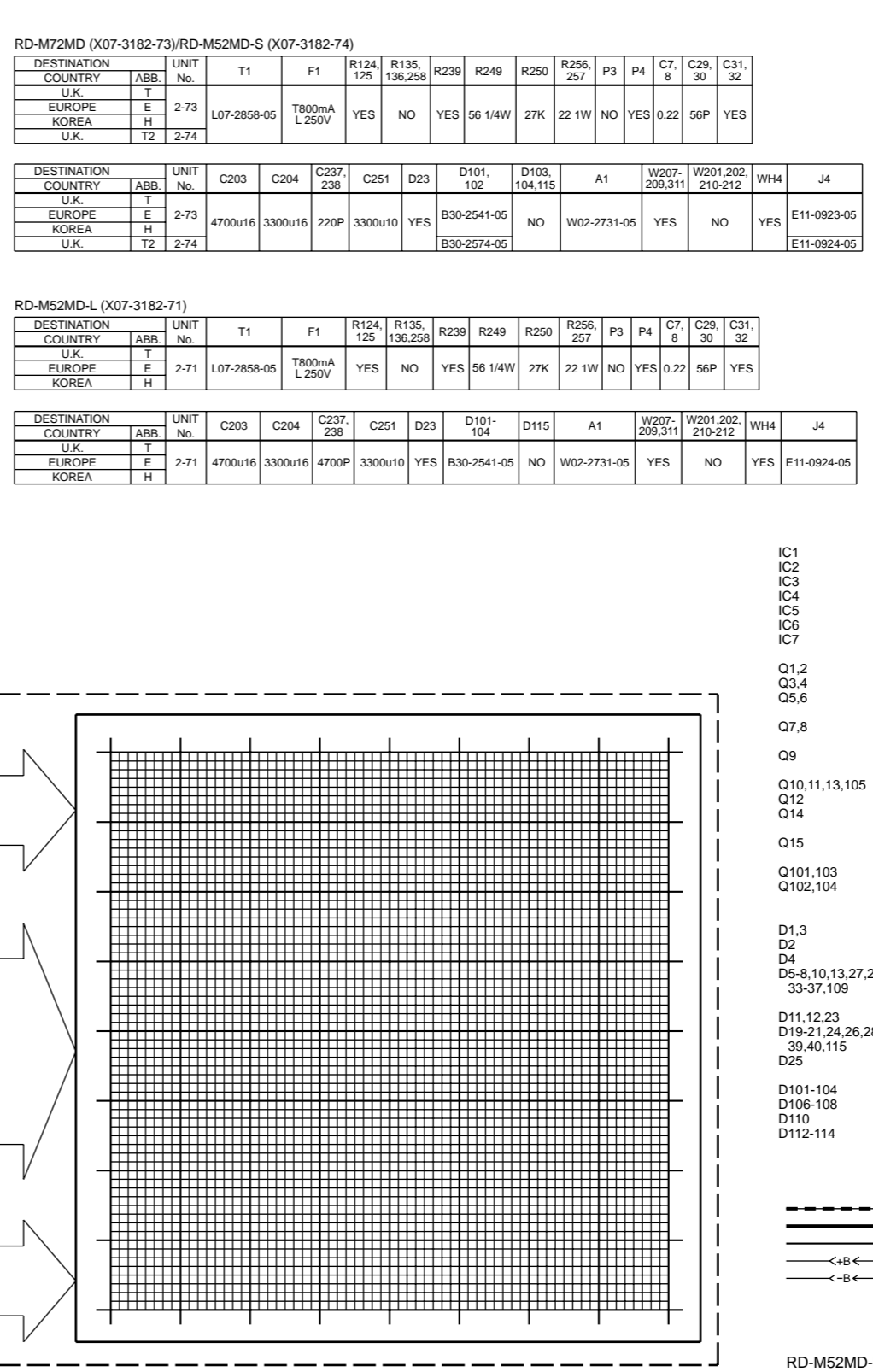
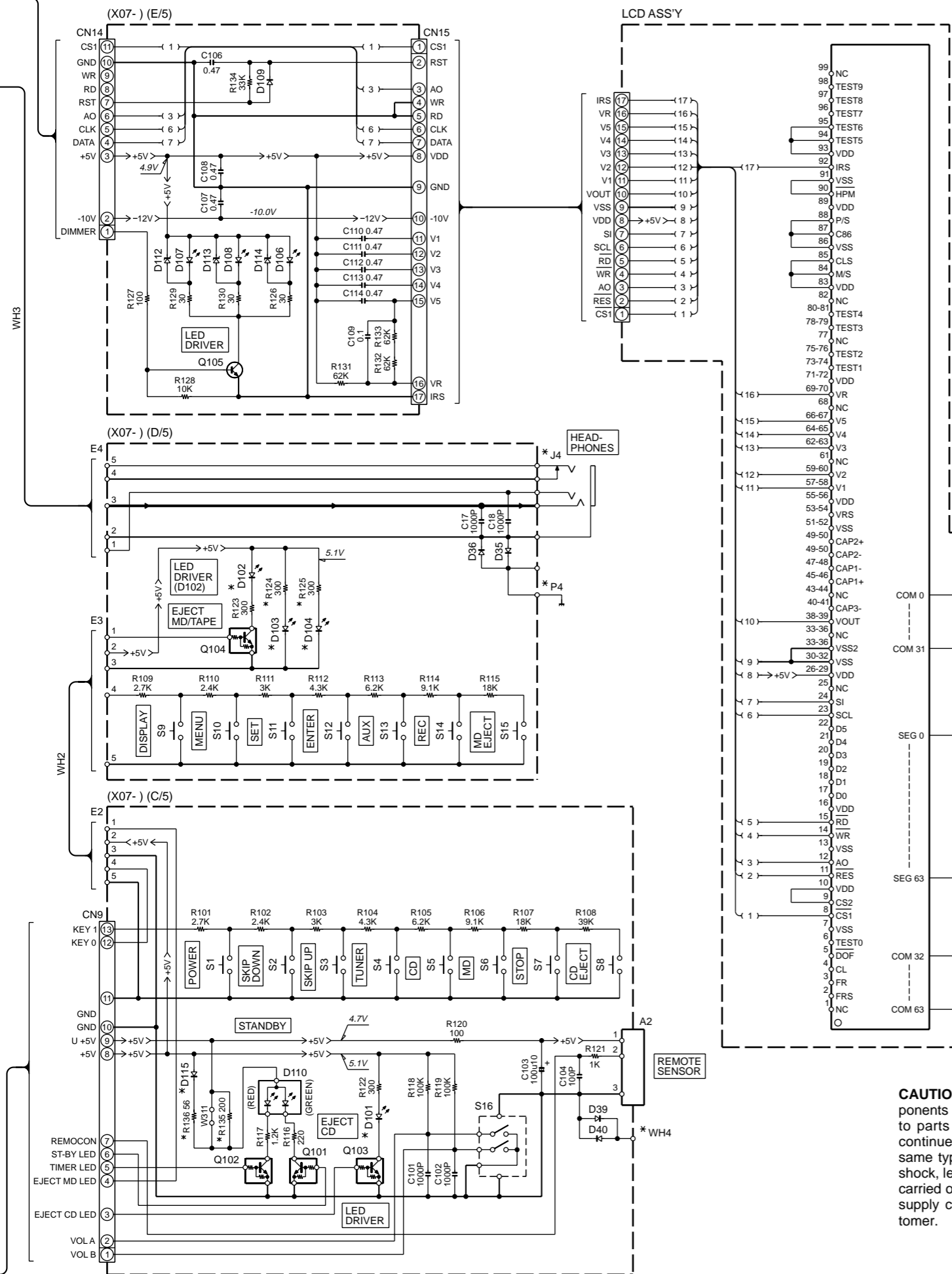
Y39-3490-51

KENWOOD

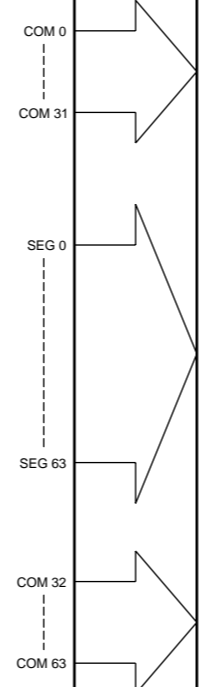


(M) : AC110-120V/220-240V-50/60Hz  
 (H,X) : AC240V-50Hz  
 (T,E) : AC230V-50Hz

1  
2  
3  
4  
5  
6  
7



- IC1 : LM4766T
- IC2 : SI-3090C(1109)
- IC3 : SI-3050C(1113)
- IC4 : NJM2904M
- IC5 : TA7910SB
- IC6 : TA7810SB
- IC7 : XC62HR5102P
- Q1,2 : 2SC4213(B)
- Q3,4 : 2SC1845(F,E)
- Q5,6 : 2SC4081(R,S) or 2SC4116(Y,GR)
- Q7,8 : 2SA1576A(R,S) or 2SA1586(Y,GR)
- Q9 : 2SC3940A(R,S) or 2SD863(E,F)
- Q10,11,13,105 : 2SC4097(Q,R)
- Q12 : 2SA992(F,E)
- Q14 : 2SA933A(S,Q,R) or 2SA1048(Y,GR)
- Q15 : DTA124ESA or UN4112
- Q101,103 : DTC124EUA
- Q102,104 : DTC124ESA or UN4212
- D1,3 : D4SBL20UF03
- D2 : D2SBA20F03
- D4 : S1ZB20(4072)
- D5-8,10,13,27,29,30,33-37,109 : 1SS133 or HSS104A or S5688B(TPB5)
- D11,12,23 : MA111
- D19-21,24,26,28,31,32,39,40,115 : MTZJ3.9(B) or RD3.9ES(B2)
- D25 : MTZJ3.9(B) or RD3.9ES(B2)
- D101-104 : \*
- D106-108 : B30-2575-05
- D110 : B30-2538-05
- D112-114 : MTZJ5.1(B) or RD5.1ES(B2)

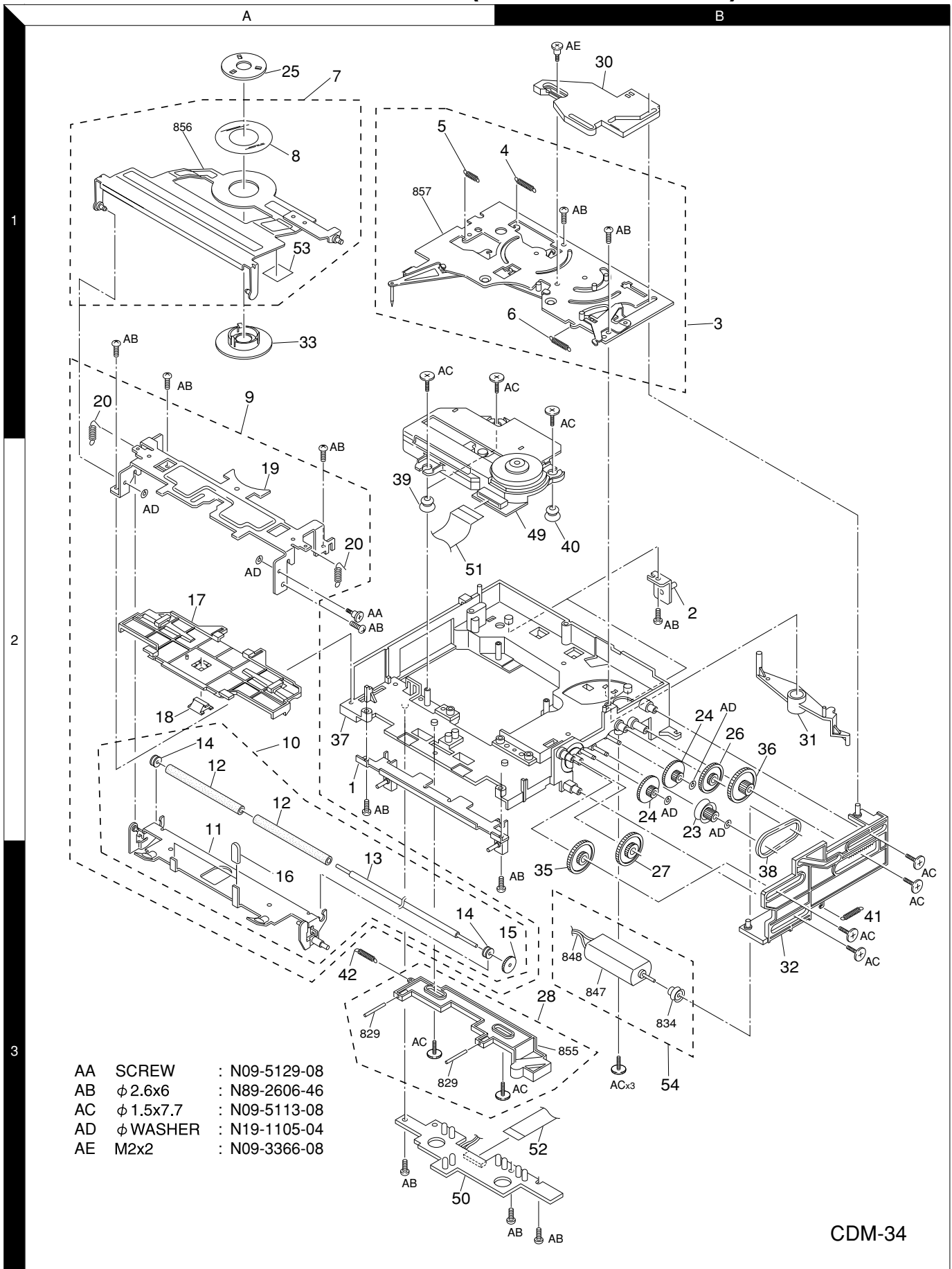


**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  $\Delta$  indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of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

# RD-M52MD/M72MD

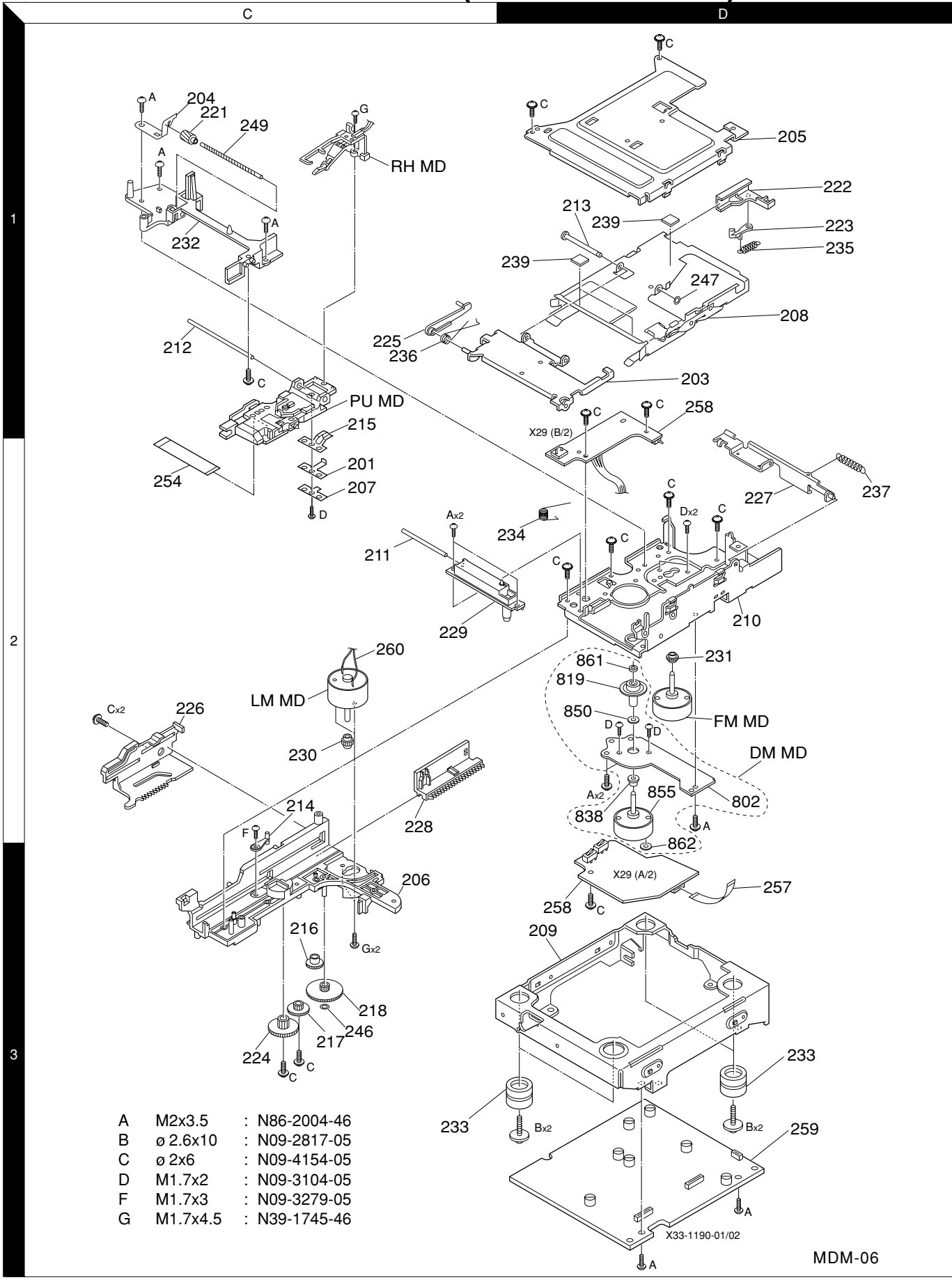
## EXPLODED VIEW(CD MECHANISM)



CDM-34

# RD-M52MD/M72MD

## EXPLODED VIEW(MD MECHANISM)

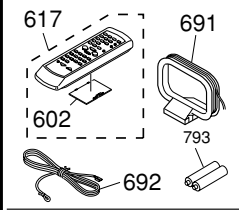


Parts with exploded numbers larger than 700 are not supplied.

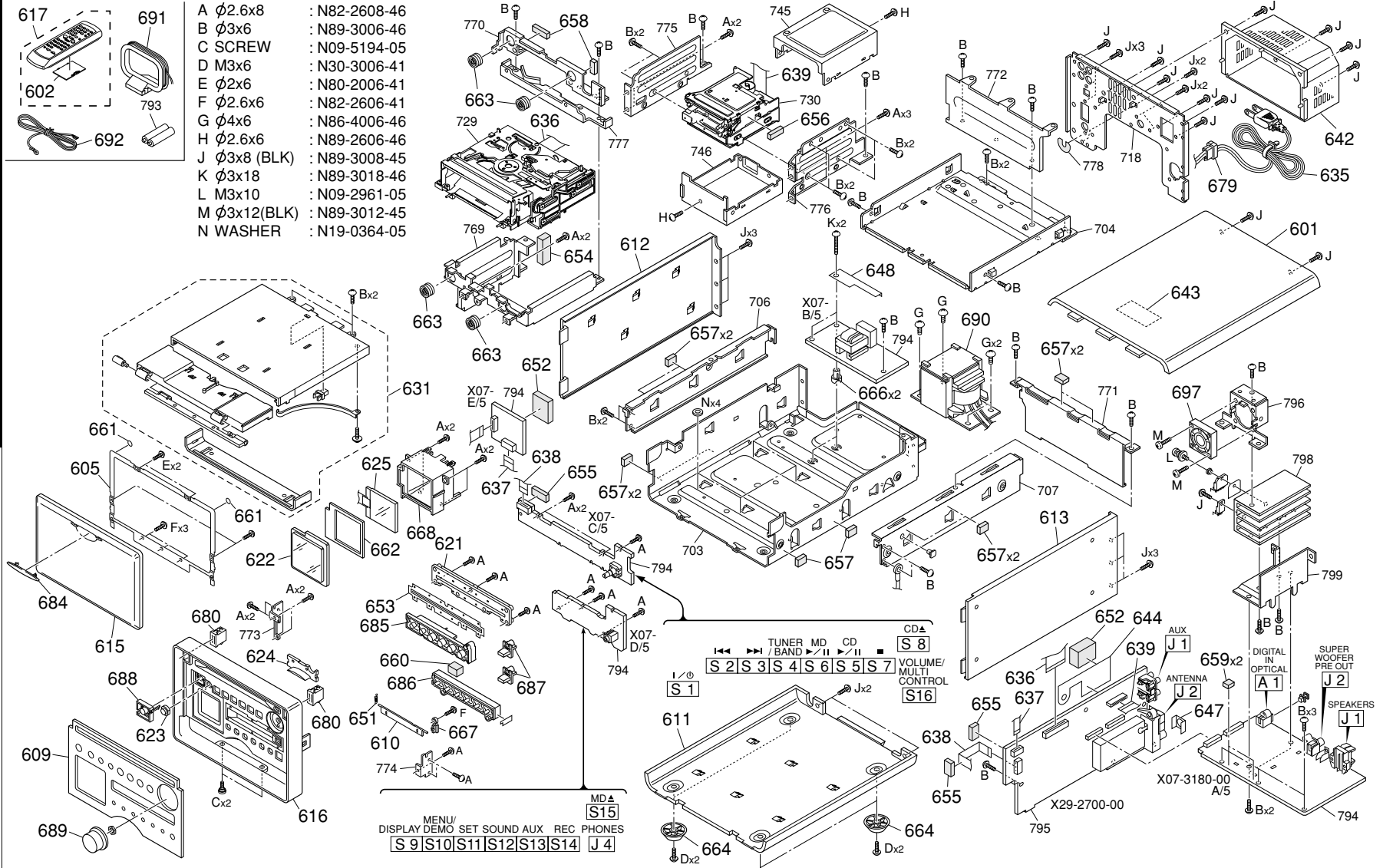
E

F

G



- A  $\phi 2.6 \times 8$  : N82-2608-46
- B  $\phi 3 \times 6$  : N89-3006-46
- C SCREW : N09-5194-05
- D M3x6 : N30-3006-41
- E  $\phi 2 \times 6$  : N80-2006-41
- F  $\phi 2.6 \times 6$  : N82-2606-41
- G  $\phi 4 \times 6$  : N86-4006-46
- H  $\phi 2.6 \times 6$  : N89-2606-46
- J  $\phi 3 \times 8$  (BLK) : N89-3008-45
- K  $\phi 3 \times 18$  : N89-3018-46
- L M3x10 : N09-2961-05
- M  $\phi 3 \times 12$  (BLK) : N89-3012-45
- N WASHER : N19-0364-05



MD  $\Delta$  S15

MENU/ DISPLAY DEMO SET SOUND AUX REC PHONES

S 9 | S10 | S11 | S12 | S13 | S14 | J 4

CD  $\Delta$  S 8

TUNER MD CD

/ BAND / II / II

S 2 | S 3 | S 4 | S 6 | S 5 | S 7

VOLUME/ MULTI CONTROL S16

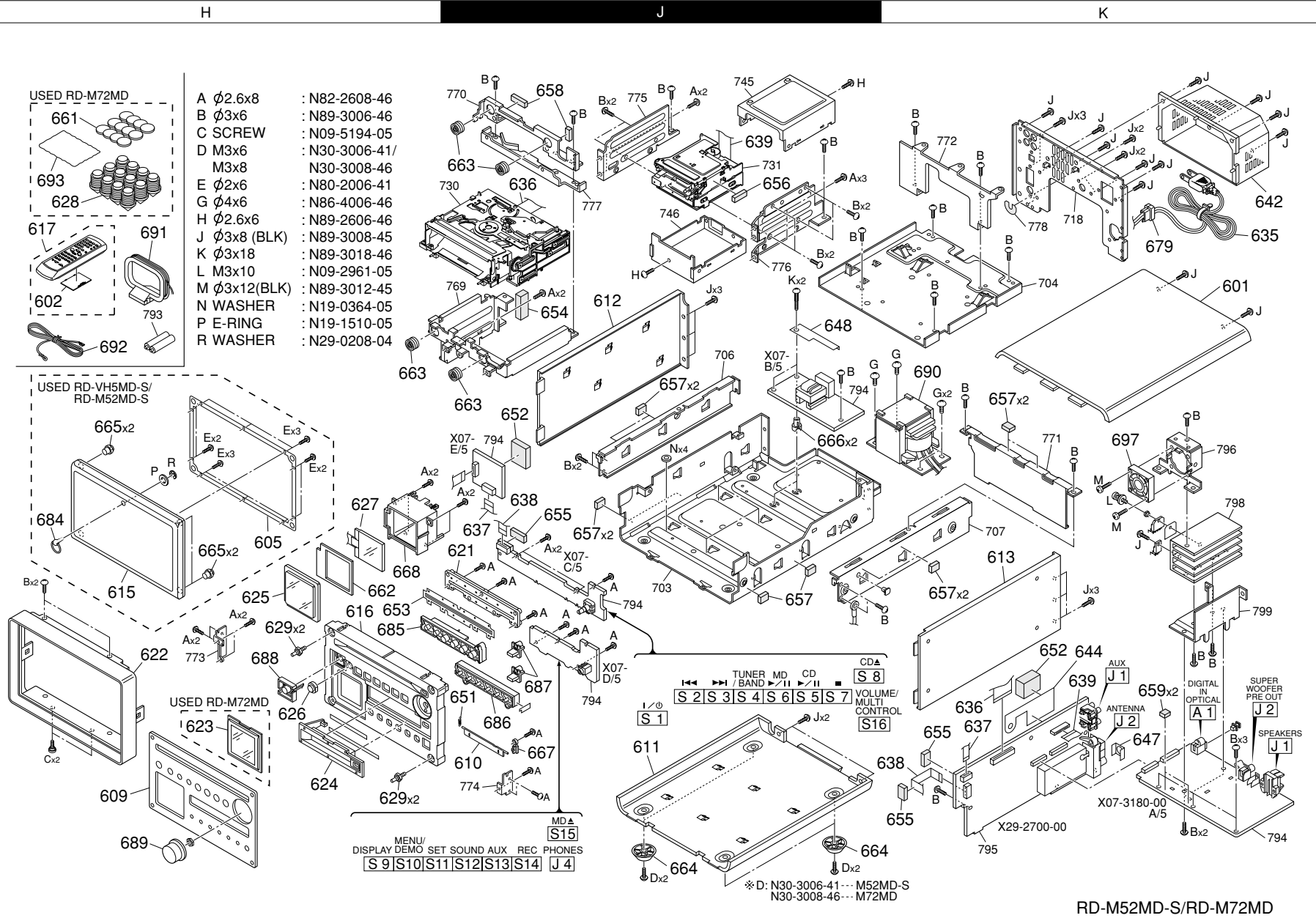
RD-M52MD-L

EXPLODED VIEW(UNIT)

RD-M52MD/M72MD



Parts with exploded numbers larger than 700 are not supplied.



\* 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
<b>RD-M52MD-L</b>						
601	1G	*	A02-2954-11	PLASTIC CABINET		
602	1G	*	A09-1161-08	BATTERY COVER		
605	2E	*	A13-3173-23	FRAME		
609	1E	*	A21-3864-03	DRESSING PANEL		
610	2E	*	A29-1095-04	PANEL (MD)		
611	2F	*	A40-1053-01	BOTTOM PLATE		
612	1F	*	A50-1346-12	SIDE PLATE		
613	2G	*	A50-1350-12	SIDE PLATE		
615	2E	*	A52-0392-02	DOOR ASSY		
616	2E	*	A60-1825-11	PANEL		
617	1E	*	A70-1399-05	REMOTE CONTROL ASSY (RC-M0301E)		
621	2E	*	B07-2516-13	ESCUTCHEON (CD)		
622	2E	*	B10-3585-03	FRONT GLASS		
623	2E	*	B12-0394-04	INDICATOR (RC)		
624	2E	*	B12-0395-04	INDICATOR		
625	2E	*	B38-0199-05	LIQUID CRYSTAL		
-			B46-0310-03	WARRANTY CARD	T	
-			B46-0350-00	QUESTIONNAIRE CARD	T	
-			B58-0965-13	CAUTION CARD (T_XtypePL)	T	
-			B58-0966-13	CAUTION CARD (ELMtypePL)	T	
-		*	B58-1680-04	CAUTION CARD	T	
-		*	B60-4690-00	INSTRUCTION MANUAL (FR)	E	
-		*	B60-4691-00	INSTRUCTION MANUAL (GE)	E	
-		*	B60-4692-00	INSTRUCTION MANUAL (NE)	E	
-		*	B60-4693-00	INSTRUCTION MANUAL (IT)	E	
-		*	B60-4694-00	INSTRUCTION MANUAL (ES)	E	
-		*	B60-4705-00	INSTRUCTION MANUAL (EN)	T	
631	1E	*	D40-1676-05	MECHANISM ASSY (DOOR)		
△ 635	1G	*	E30-2788-05	AC POWER CORD	E	
△ 635	1G	*	E30-2791-05	AC POWER CORD	T	
△ 635	1G	*	E30-2950-05	AC POWER CORD	H	
636	1F,2G	*	E35-2570-05	FLAT CABLE (31P)CD		
637	2F,2G	*	E35-2572-05	FLAT CABLE (11P)LCD		
638	2F,2G	*	E35-2573-05	FLAT CABLE (13P)OPERATION		
639	1F,2G	*	E35-2685-05	FLAT CABLE (26P)MD		
642	1G	*	F07-1703-02	COVER		
643	1G	*	F09-0151-04	SHEET		
644	2G	*	F10-1182-04	SHIELDING PLATE		
647	2G	*	F20-3559-04	INSULATING BOARD		
648	1F	*	F20-3558-04	INSULATING BOARD		
651	2E	*	G01-3906-04	EXTENSION SPRING		
652	1F,2G	*	G11-2419-04	CUSHION		
653	2E	*	G11-2727-14	CUSHION		
654	1F	*	G11-2750-04	CUSHION		
655	2F,2G	*	G11-2751-04	CUSHION		
656	1F	*	G11-2768-04	CUSHION		
657	1F,2F	*	G11-2773-04	CUSHION		
658	1F	*	G11-2776-04	CUSHION		
659	2G	*	G11-2777-04	CUSHION		
660	2E	*	G11-2779-04	CUSHION		

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②

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
661	1E	*	G16-1208-04	SHEET		
662	2E	*	G53-0084-04	PACKING (LCD)		
-			G10-0428-04	NON-WOVEN FABRIC		
-			G10-0513-04	NON-WOVEN FABRIC		
-		*	H10-7667-12	POLYSTYRENE FOAMED FIXTURE		
-		*	H10-7668-12	POLYSTYRENE FOAMED FIXTURE		
-		*	H21-0385-14	PROTECTION SHEET		
-		*	H25-0672-04	PROTECTION BAG		
-		*	H25-1595-04	PROTECTION BAG		
-		*	H50-3678-14	ITEM CARTON CASE		
663	1E,1F	*	J02-1449-04	INSULATOR		
664	2F	*	J02-1475-14	FOOT		
666	1F	*	J19-3732-04	UNIT HOLDER		
667	2F	*	J19-6070-04	HOLDER (MD DOOR)		
668	2E	*	J19-6071-23	HOLDER (LCD)		
△ 679	1G	*	J42-0083-05	POWER CORD BUSHING		
680	2E	*	J52-0043-05	MAGNET CATCH		
-		*	J69-0220-04	ADHESIVE TAPE		
684	2E	*	K01-0120-14	HANDLE		
685	2E	*	K29-7769-03	KNOB (SELECT)		
686	2E	*	K29-7770-13	KNOB (FUNCTION)		
687	2F	*	K29-7771-04	KNOB (EJECT)		
688	2E	*	K29-7772-14	KNOB (POWER)		
689	2E	*	K29-7773-04	KNOB (VOLUME/MULTI)		
△ 690	1G	*	L07-2860-15	POWER TRANSFORMER		
691	1E	*	T90-0852-05	LOOP ANTENNA		
692	1E	*	T90-0858-05	LEAD WIRE ANTENNA		
<b>RD-M52MD-S/M72MD</b>						
601	1K	*	A02-2955-11	PLASTIC CABINET	T2	
601	1K	*	A02-2961-11	PLASTIC CABINET	TEH	
602	1H	*	A09-1161-08	BATTERY COVER	T2	
602	1H	*	A09-1183-08	BATTERY COVER	TEH	
605	2H	*	A13-3181-03	FRAME	T2	
609	2H	*	A21-3860-23	DRESSING PANEL	TEH	
609	2H	*	A21-3891-03	DRESSING PANEL	T2	
610	2J	*	A29-1095-04	PANEL (MD)	T2	
610	2J	*	A29-1103-04	PANEL (MD)	TEH	
611	2J	*	A40-1054-01	BOTTOM PLATE	T2	
611	2J	*	A40-1058-01	BOTTOM PLATE	TEH	
612	1J	*	A50-1347-12	SIDE PLATE	T2	
612	1J	*	A50-1368-12	SIDE PLATE	TEH	
613	2K	*	A50-1351-12	SIDE PLATE	T2	
613	2K	*	A50-1369-12	SIDE PLATE	TEH	
615	2H	*	A52-0396-02	DOOR ASSY	T2	
616	2H	*	A60-1839-11	PANEL		
617	1H	*	A70-1385-05	REMOTE CONTROL ASSY(RC-M0507E)	TEH	
617	1H	*	A70-1399-05	REMOTE CONTROL ASSY(RC-M0301E)	T2	
621	2J	*	B07-2516-13	ESCUTCHEON (CD)		
622	2H	*	B07-2521-12	ESCUTCHEON		
623	2H	*	B07-2522-03	ESCUTCHEON (LCD)	TEH	
624	2H	*	B07-2523-13	ESCUTCHEON (MD)		
625	2H	*	B10-3598-03	FRONT GLASS	TEH	

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PARTS LIST

RD-M52MD/M72MD

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625	2H	*	B10-3607-03	FRONT GLASS	T2	
626	2H	*	B12-0398-04	INDICATOR (RC)		
627	2H	*	B38-0230-05	LIQUID CRYSTAL (ORANGE)ED1	T2	
627	2H	*	B38-0232-05	LIQUID CRYSTAL (RED)ED1	TEH	
-			B46-0310-03	WARRANTY CARD	TET2	
-			B46-0350-00	QUESTIONNAIRE CARD	TT2	
-			B58-0965-13	CAUTION CARD (T,XtypePL)	TT2	
-			B58-0966-13	CAUTION CARD (ELMtypePL)	E	
-		*	B58-1680-04	CAUTION CARD	T2	
-		*	B60-4673-00	INSTRUCTION MANUAL (GE)	E	
-		*	B60-4684-00	INSTRUCTION MANUAL (EN)	T	
-		*	B60-4705-00	INSTRUCTION MANUAL (EN)	T2	
-		*	B60-4825-00	INSTRUCTION MANUAL (EN)	T2	
628	1H	*	D21-1974-04	SHAFT	TEH	
629	2H	*	D21-1978-04	SHAFT (PANEL)	T2	
△	635	1K	E30-2788-05	AC POWER CORD	E	
△	635	1K	E30-2791-05	AC POWER CORD	TT2	
△	635	1K	E30-2950-05	AC POWER CORD	H	
636	1J,2K	*	E35-2570-05	FLAT CABLE (31P)		
637	2J,2K	*	E35-2572-05	FLAT CABLE (11P)		
638	2J,2K	*	E35-2573-05	FLAT CABLE (13P)		
639	1J,2K	*	E35-2685-05	FLAT CABLE (26P)		
642	1K	*	F07-1703-02	COVER		
644	2K	*	F10-1182-04	SHIELDING PLATE		
647	2K	*	F20-3559-04	INSULATING BOARD		
648	1J	*	F20-3558-04	INSULATING BOARD		
651	2J	*	G01-3906-04	EXTENSION SPRING		
652	1J,2K	*	G11-2419-04	CUSHION		
653	2H	*	G11-2727-14	CUSHION		
654	1J	*	G11-2750-04	CUSHION		
655	2J,2K	*	G11-2751-04	CUSHION		
656	1J	*	G11-2768-04	CUSHION		
657	2J,2K	*	G11-2773-04	CUSHION		
658	1J	*	G11-2776-04	CUSHION		
659	2K	*	G11-2777-04	CUSHION		
661	1J	*	G16-0878-14	SHEET (4ASSY)	TEH	
662	2H	*	G53-0084-04	PACKING (LCD)		
-			G10-0428-04	NON-WOVEN FABRIC		
-			G10-0513-04	NON-WOVEN FABRIC		
-		*	H10-7667-12	POLYSTYRENE FOAMED FIXTURE		
-		*	H10-7668-12	POLYSTYRENE FOAMED FIXTURE		
-		*	H21-0386-04	PROTECTION SHEET	T2	
-		*	H21-0387-04	PROTECTION SHEET	T2	
-		*	H25-0672-04	PROTECTION BAG		
-		*	H25-1595-04	PROTECTION BAG		
-		*	H50-3710-14	ITEM CARTON CASE	TEH	
-		*	H50-3920-04	ITEM CARTON CASE	T2	
663	1H,1J	*	J02-1449-04	INSULATOR		
664	2J	*	J02-1475-14	FOOT	T2	
664	1H,2H	*	J02-1479-04	FOOT	TEH	
665	1H,2H	*	J19-6093-14	HOLDER	T2	
666	1J	*	J19-3732-04	UNIT HOLDER		

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667	2J	*	J19-6076-04	HOLDER (MD DOOR)		
668	2H	*	J19-6071-23	HOLDER (LCD)		
△	679	1K	J42-0083-05	POWER CORD BUSHING		
-		*	J69-0220-04	ADHESIVE TAPE	T2	
684	2H	*	K01-0121-04	HANDLE ASSY	T2	
685	2H	*	K29-7769-03	KNOB (SELECT)	T2	
685	2H	*	K29-7791-03	KNOB (SELECT)	TEH	
686	2J	*	K29-7770-13	KNOB (FUNCTION)	T2	
686	2J	*	K29-7792-03	KNOB (FUNCTION)	TEH	
687	2J	*	K29-7771-04	KNOB (EJECT)	T2	
687	2J	*	K29-7793-04	KNOB (EJECT)	TEH	
688	2H	*	K29-7772-14	KNOB (POWER)	T2	
688	2H	*	K29-7794-04	KNOB (POWER)	TEH	
689	2H	*	K29-7773-04	KNOB (VOLUME/MULTI)	T2	
689	2H	*	K29-7800-04	KNOB (VOLUME/MULTI)	TEH	
△	690	1K	L07-2860-15	POWER TRANSFORMER		
691	1H	*	T90-0852-05	LOOP ANTENNA		
692	1H	*	T90-0858-05	LEAD WIRE ANTENNA		
693	1H	*	W01-0990-04	CLEANING CLOTH	TEH	
<b>POWER AMPLIFIER UNIT(X07-318X-XX)</b>						
D101,102			B30-2541-05	LED(GRN3(80))	TEH	5
D101,102			B30-2574-05	LED(2.5MM YELLOW)	T2	
D103,104			B30-2541-05	LED(GRN3(80))	TEH	
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			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			CC73GCH1H560J	CHIP C 56PF	J	
C31_32			CQ93FMG1H224J	MYLAR 0.22UF	J	
C101,102			CK73GB1H102K	CHIP C 1000PF	K	
C103			CE04RW1A101M	ELECTRO 100UF	10WV	
C104			CC73GCH1H101J	CHIP C 100PF	J	
C106-108			CK73FF1C474Z	CHIP C 0.47UF	Z	
C109			CK73GB1C104K	CHIP C 0.10UF	K	
C110-114			CK73FF1C474Z	CHIP C 0.47UF	Z	
C116			CK73GB1H102K	CHIP C 1000PF	K	
C201,202			C90-3928-05	ALMINIUM ELECTROLYTIC C.		
C203			CE04KW1C472M	ELECTRO 4700UF	16WV	
C204			CE04KW1C332M	ELECTRO 3300UF	16WV	
C205			C91-1567-05	FILM 0.1UF	J	
C206			CK45FF1H103Z	CERAMIC 0.010UF	Z	
C208			CK45FF1H103Z	CERAMIC 0.010UF	Z	
C212			CE04KW1E470M	ELECTRO 47UF	25WV	
C213			CQ93FMG1H104J	MYLAR 0.10UF	J	

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C214			CQ93FMG1H102J	MYLAR 1000PF J		
C217			CK73GB1C104K	CHIP C 0.10UF K		
C219			CQ93FMG1H104J	MYLAR 0.10UF J		
C221			CE04KW1H100M	ELECTRO 10UF 50WV		
C223			CK73GB1H222K	CHIP C 2200PF K		
C224			CK73GB1H103K	CHIP C 0.010UF K		
C225			CE04KW1H100M	ELECTRO 10UF 50WV		
C227			CE04HW1E100M	NP-ELEC 10UF 25WV		
C228			CK73GB1H103K	CHIP C 0.010UF K		
C229			CE04KW1V470M	ELECTRO 47UF 35WV		
C232			CK73GB1C104K	CHIP C 0.10UF K		
C236			CC73GCH1H470J	CHIP C 47PF J		
C237,238			CC45FSL1H221J	CERAMIC 220PF J	TEH	7
C237,238			CC45FSL1H221J	CERAMIC 220PF J	T2	
C237,238			CQ93FMG1H472J	MYLAR 4700PF J	TEH	5
C241			CE04KW1A101M	ELECTRO 100UF 10WV		
C251			CE04KW1A332M	ELECTRO 3300UF 10WV		
C252			CQ93FMG1H104J	MYLAR 0.10UF J		
C253			CE04KW1E470M	ELECTRO 47UF 25WV		
C254			CK73GB1H102K	CHIP C 1000PF K		
C255			CK73GB1C563K	CHIP C 0.056UF K		
C256			CK73EB1C225K	CHIP C 2.2UF K		
C257			CK73GB1H103K	CHIP C 0.010UF K		
C258			CE04KW1H100M	ELECTRO 10UF 50WV		
CN1,2			E40-4245-05	PIN ASSY		
CN3			E40-3242-05	PIN ASSY		
CN4			E40-3250-05	PIN ASSY		
CN5			E40-9831-05	SOCKET FOR PIN ASSY		
CN6			E40-9829-05	SOCKET FOR PIN ASSY		
CN7			E40-3249-05	PIN ASSY		
CN8			E40-3246-05	PIN ASSY		
CN9			E40-8250-05	FLAT CABLE CONNECTOR		
CN14			E40-8268-05	FLAT CABLE CONNECTOR		
CN15			E40-8637-05	FLAT CABLE CONNECTOR		
J1			E70-0053-05	LOCK TERMINAL BOARD		
J2			E63-0164-05	PIN JACK		
J4			E11-0923-05	PHONE JACK (MINI BLK)	T2	
J4			E11-0924-05	PHONE JACK (MINI GRV)	TEH	
697	1G,1K		F09-0142-05	FAN		
F1			F05-8013-05	FUSE (SEMKO) (250V T800MAL)		
CN16,17			J13-0092-05	FUSE CLIP		
E5,6			J11-0809-05	WIRE CLAMPER		
P4			J21-6825-04	MOUNTING HARDWARE		
T1			L07-2858-05	POWER TRANSFORMER		
R1,2			RK73FB2A223J	CHIP R 22K J 1/10W		
R3,4			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R5,6			RK73FB2A203J	CHIP R 20K J 1/10W		
R7,8			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R9,10			RK73FB2A361J	CHIP R 360 J 1/10W		
R11,12			RK73FB2A203J	CHIP R 20K J 1/10W		
R13,14			RS14KB3DR22J	FL-PROOF RS 0.22 J 2W		
R15,16			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R17,18			RK73FB2A103J	CHIP R 10K J 1/10W		

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R19,20			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R21,22			RK73FB2A473J	CHIP R 4.7K J 1/10W		
R23,24			RK73FB2A682J	CHIP R 6.8K J 1/10W		
R25			RK73FB2A104J	CHIP R 100K J 1/10W		
R27,28			RS14KB3A331J	FL-PROOF RS 330 J 1W		
R29,30			RS14KB3A2R7J	FL-PROOF RS 2.7 J 1W		
R31,32			RK73FB2A562J	CHIP R 5.6K J 1/10W		
R33			RK73FB2A821J	CHIP R 820 J 1/10W		
R37,38			RK73FB2A471J	CHIP R 470 J 1/10W		
R101			RK73FB2A272J	CHIP R 2.7K J 1/10W		
R102			RK73FB2A242J	CHIP R 2.4K J 1/10W		
R103			RK73FB2A302J	CHIP R 3.0K J 1/10W		
R104			RK73FB2A432J	CHIP R 4.3K J 1/10W		
R105			RK73FB2A622J	CHIP R 6.2K J 1/10W		
R106			RK73FB2A912J	CHIP R 9.1K J 1/10W		
R107			RK73FB2A183J	CHIP R 18K J 1/10W		
R108			RK73FB2A393J	CHIP R 39K J 1/10W		
R109			RK73FB2A272J	CHIP R 2.7K J 1/10W		
R110			RK73FB2A242J	CHIP R 2.4K J 1/10W		
R111			RK73FB2A302J	CHIP R 3.0K J 1/10W		
R112			RK73FB2A432J	CHIP R 4.3K J 1/10W		
R113			RK73FB2A622J	CHIP R 6.2K J 1/10W		
R114			RK73FB2A912J	CHIP R 9.1K J 1/10W		
R115			RK73FB2A183J	CHIP R 18K J 1/10W		
R116			RK73FB2A221J	CHIP R 220 J 1/10W		
R117			RK73FB2A122J	CHIP R 1.2K J 1/10W		
R118,119			RK73FB2A104J	CHIP R 100K J 1/10W		
R121			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R122-125			RK73FB2A301J	CHIP R 300 J 1/10W		
R126			RK73FB2A300J	CHIP R 30 J 1/10W		
R128			RK73FB2A103J	CHIP R 10K J 1/10W		
R129,130			RK73FB2A300J	CHIP R 30 J 1/10W		
R131-133			RK73FB2A623J	CHIP R 62K J 1/10W		
R201			RD14NB2E1R0J	RD 1 J 1/4W		
R203			RK73FB2A431J	CHIP R 430 J 1/10W		
R204			RD14NB2E100J	RD 10 J 1/4W		
R205			RD14NB2E1R0J	RD 1 J 1/4W		
R206			RD14NB2E4R7J	RD 4.7 J 1/4W		
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		
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		

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RD-M52MD/M72MD

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R233-235			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R236-238			RK73FB2A473J	CHIP R 47K J 1/10W		
R239			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R240			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R241			RK73FB2A622J	CHIP R 6.2K J 1/10W		
Δ R249			RD14NB2E560J	RD 56 J 1/4W		
R250			RK73FB2A273J	CHIP R 27K J 1/10W		
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		
R255			RK73FB2A103J	CHIP R 10K J 1/10W		
Δ R256,257			RS14KB3A220J	FL-PROOF RS 22 J 1W		
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		
D11 ,12			S5688B(TPB5)	DIODE		
D13			HSS104A	DIODE		
D13			1SS133	DIODE		
D19 -21			MA111	DIODE		
D23			S5688B(TPB5)	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		
D112-114			RD5.1ES(B2)	ZENER DIODE		

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
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			W02-2731-05	OPTIC RECEIVING MODULE		
A2			W02-2571-05	OPTIC RECEIVING MODULE		
<b>CONTROL CIRCUIT UNIT(X29-270X-XX)</b>						
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

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
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	
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	
C105-108			CK73FF1C105Z	CHIP C 1.0UF	Z	
C109,110			CK73GF1A105Z	CHIP C 1.0UF	Z	
C113,114			CE04KW1H100M	ELECTRO 10UF	50WV	
C115-118			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	5

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C139,140			C90-3839-05	ELECTRO 2.2UF	100WV	7
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			CE04KW1A101M	ELECTRO 100UF	10WV	
C152			CK73GB1C104K	CHIP C 0.10UF	K	
C154			CE04KW1A101M	ELECTRO 100UF	10WV	
C160			CC73GCH1H330J	CHIP C 33PF	J	
C163			CE04KW1A101M	ELECTRO 100UF	10WV	
C164			CK73GB1C104K	CHIP C 0.10UF	K	
C165			CC73GCH1H330J	CHIP C 33PF	J	
C167			CK73GB1H102K	CHIP C 1000PF	K	
C169			CE04DW1C471M	ELECTRO 470UF	16WV	
C173			CK73GB1H471K	CHIP C 470PF	K	
C181			CE04RW1H2R2M	ELECTRO 2.2UF	50WV	
C182			CC73GCH1H331J	CHIP C 330PF	J	
C183			CK73GB1H103K	CHIP C 0.010UF	K	
C184			CK73GB1H561K	CHIP C 560PF	K	
C185			CE04RW0J470M	ELECTRO 47UF	6.3WV	
C186			CK73GB1H103K	CHIP C 0.010UF	K	
C187			CC73GCH1H220J	CHIP C 22PF	J	
C188			CC73GCH1H470J	CHIP C 47PF	J	
C191,192			CK73GB1H102K	CHIP C 1000PF	K	
C193,194			CC73GCH1H331J	CHIP C 330PF	J	
C201,202			CE04KW1H4R7M	ELECTRO 4.7UF	50WV	
C203,204			CK73GB1H122K	CHIP C 1200PF	K	
C205			CE04KW1A101M	ELECTRO 100UF	10WV	
C207,208			CK73GB1H821K	CHIP C 820PF	K	
C209,210			CC73GCH1H101J	CHIP C 100PF	J	
C211			CK73GB1C104K	CHIP C 0.10UF	K	
C212			C90-3623-05	BACKUP 0.33F	5.5V	
C213			CC73GCH1H101J	CHIP C 100PF	J	
C224			CC73GCH1H221J	CHIP C 220PF	J	
C225			CK73GF1A105Z	CHIP C 1.0UF	Z	
C226			CK73EB1C225K	CHIP C 2.2UF	K	
C231			CK73FF1C225Z	CHIP C 2.2UF	Z	
C232			CC73GCH1H470J	CHIP C 47PF	J	
C235			CC73GCH1H220J	CHIP C 22PF	J	
C236-238			CC73GCH1H330J	CHIP C 33PF	J	
C243,244			CC73GCH1H101J	CHIP C 100PF	J	
C252			CE04KW1H100M	ELECTRO 10UF	50WV	
C253			CC45FSL1H101J	CERAMIC 100PF	J	
C254			CK73FB1E333K	CHIP C 0.033UF	K	
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		
CN7			E40-8400-05	FLAT CABLE CONNECTOR		

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PARTS LIST

RD-M52MD/M72MD

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
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)		
L2			L92-0501-05	FERRITE CORE		
L4 -6			L92-0089-05	CHIP FERRITE		
L7			L92-0501-05	FERRITE CORE		
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)		
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 -15			RK73FB2A103J	CHIP R 10K	J 1/10W	
R16			RK73FB2A103J	CHIP R 10K	J 1/10W	
R17			RK73FB2A223J	CHIP R 22K	J 1/10W	5
R18			RK73FB2A221J	CHIP R 220	J 1/10W	5
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	
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	

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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 2	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	
R117 ,118			RK73FB2A104J	CHIP R 100K	J 1/10W	
R121 ,122			RK73FB2A104J	CHIP R 100K	J 1/10W	
R124-131			RK73FB2A221J	CHIP R 220	J 1/10W	
R137-141			RK73FB2A473J	CHIP R 47K	J 1/10W	
R142-146			RK73FB2A103J	CHIP R 10K	J 1/10W	
R147			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	
R167			RD14NB2E2R2J	RD 2.2	J 1/4W	

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
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
R231,232			RK73FB2A272J	CHIP R 2.7K	J	1/10W
R233			R92-1885-05	METAL FILM 0.1	J	1/2W
R234			RD14NB2E4R7J	RD 4.7	J	1/4W
R238,239			RK73FB2A4R7J	CHIP R 4.7	J	1/10W
R243,244			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
R282,283			RK73FB2A101J	CHIP R 100	J	1/10W
R285			RK73FB2A101J	CHIP R 100	J	1/10W
R286			RK73FB2A2R2J	CHIP R 2.2	J	1/10W
R301,302			RK73FB2A104J	CHIP R 100K	J	1/10W
R303,304			RK73FB2A472J	CHIP R 4.7K	J	1/10W
R305,306			RK73FB2A392J	CHIP R 3.9K	J	1/10W
R307,308			RK73FB2A682J	CHIP R 6.8K	J	1/10W
R309,310			RK73FB2A392J	CHIP R 3.9K	J	1/10W
R311-313			RK73FB2A101J	CHIP R 100	J	1/10W
R314			RK73FB2A103J	CHIP R 10K	J	1/10W
R315,316			RK73FB2A332J	CHIP R 3.3K	J	1/10W
R317,318			RK73FB2A752J	CHIP R 7.5K	J	1/10W
R319,320			RK73FB2A393J	CHIP R 39K	J	1/10W
R321			RK73FB2A102J	CHIP R 1.0K	J	1/10W
R323,324			RK73FB2A622J	CHIP R 6.2K	J	1/10W
R325,326			RK73FB2A682J	CHIP R 6.8K	J	1/10W
VR1			R12-3100-05	TRIMMING POT.(10K)		
VR2			R12-3101-05	TRIMMING POT.(22K)		
W1 -7			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		
W32			R92-0679-05	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		

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D12			UDZ5.1B	ZENER DIODE		
D21 ,22			MA111	DIODE		
D24			DA204U	DIODE		
D25			UDZ2.7B	ZENER DIODE		
D26			MA111	DIODE		
IC1			M30624MG-303FP	MI-COM IC		
IC2			S-80840ANY	ANALOGUE IC		
$\Delta$ IC3			SI-3025F(1109)	ANALOGUE IC		
$\Delta$ IC4			SI-3050F(1109)	ANALOGUE IC		
$\Delta$ IC5			LM2940CT-5.0	ANALOGUE IC		
IC5			UPC2905HF	ANALOGUE IC		
IC6			M62498AFP	ANALOGUE IC		
IC7			NJM2100M	IC(OP AMPLIFIER)		
IC8			CXA1821M	ANALOGUE IC		
IC9			CXD3017Q	MOS-IC		
IC10			BA5801FS	ANALOGUE IC		
IC11			NJM2100M	IC(OP AMPLIFIER)		
IC12			BU1923F	ANALOGUE IC		
IC13			NJM2100M	IC(OP AMPLIFIER)		
IC14			TA79005SB	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		
Q6			DTC124EUA	DIGITAL TRANSISTOR		
Q6			UN5212	DIGITAL TRANSISTOR		
Q7			DTA124EUA	DIGITAL TRANSISTOR		
Q7			UN5112	DIGITAL 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		
Q29 ,30			DTC143TUA	DIGITAL TRANSISTOR		
Q29 ,30			UN5216	DIGITAL TRANSISTOR		
A1			W02-2742-05	TUNER ASSY		
<b>MD MECHANISM UNIT(X29-2650-00)</b>						
CNI			E40-8398-05	FLAT CABLE CONNECTOR 11P		
R1			RK73FB2A823J	CHIP C 82K	J	1/10W
R2 ,3			RK73FB2A333J	CHIP C 33K	J	1/10W
R4			RK73FB2A223J	CHIP C 22K	J	1/10W
W1			R92-0670-05	CHIP C 0 OHM		

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PARTS LIST

RD-M52MD/M72MD



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W3 -5			R92-0679-05	CHIP C 0 OHM		
S1			S68-0118-05	PUSH SWITCH		
S2			S64-0041-05	LEVER SWITCH		
S3			S68-0119-05	PUSH SWITCH		
S4 ,5			S64-0042-05	LEVER SWITCH		
<b>MD MECHANISM CONTROL UNIT(X33-1190-0X)</b>						
C1			C92-0186-05	ELECTRO 470UF	6.3WV	
C12 ,13			CC73FCH1H020D	CHIP C 2.0PF	D	
C31			C92-0628-05	CHIP-TAN 10UF	10WV	
C32			CK73FB1E104K	CHIP C 0.10UF	K	
C33			C92-0628-05	CHIP-TAN 10UF	10WV	
C34 ,35			C93-1044-05	CERAMIC 2200PF	K	
C36 ,37			CK73FB1E104K	CHIP C 0.10UF	K	
C38 ,39			C92-0187-05	ELECTRO 4.7UF	25WV	
C40			CK73FB1E104K	CHIP C 0.10UF	K	
C41			C92-0628-05	CHIP-TAN 10UF	10WV	
C44			CK73FF1E104Z	CHIP C 0.10UF	Z	
C46			CK73FB1E104K	CHIP C 0.10UF	K	
C101			C92-0628-05	CHIP-TAN 10UF	10WV	
C102			CK73FB1E104K	CHIP C 0.10UF	K	
C103,104			C92-0628-05	CHIP-TAN 10UF	10WV	
C105			CK73FB1H103K	CHIP C 0.010UF	K	
C106			CC73FCH1H102J	CHIP C 1000PF	J	
C107,108			CK73FF1E104Z	CHIP C 0.10UF	Z	
C109			CK73FB1H223K	CHIP C 0.022UF	K	
C110			CK73FB1E104K	CHIP C 0.10UF	K	
C111			CK73FB1H683K	CHIP C 0.068UF	K	
C112			CK73FB1H472K	CHIP C 4700PF	K	
C113			CK73FF1C105Z	CHIP C 1.0UF	Z	
C114			CC73FCH1H221J	CHIP C 220PF	J	
C114			CC73FSL1H221J	CHIP C 220PF	J	
C115			CK73FB1C224K	CHIP C 0.22UF	K	
C116			CK73FB1H223K	CHIP C 0.022UF	K	
C117,118			CK73FB1E104K	CHIP C 0.10UF	K	
C119			C92-0628-05	CHIP-TAN 10UF	10WV	
C120			CC73FCH1H331J	CHIP C 330PF	J	
C120			CC73FSL1H331J	CHIP C 330PF	J	
C121			C92-1371-05	ELECTRO 100UF	6.3WV	
C122			CK73FB1H103K	CHIP C 0.010UF	K	
C123,124			CK73FF1E104Z	CHIP C 0.10UF	Z	
C125			CC73FCH1H331J	CHIP C 330PF	J	
C125			CC73FSL1H331J	CHIP C 330PF	J	
C126,127			CC73FSL1H471J	CHIP C 470PF	J	
C128			CK73FB1H103K	CHIP C 0.010UF	K	
C129			CK73FB1C474K	CHIP C 0.47UF	K	
C130			CC73FSL1H101J	CHIP C 100PF	J	
C131			CK73FB1H153K	CHIP C 0.015UF	K	
C132			CK73FB1C474K	CHIP C 0.47UF	K	
C133			CK73FB1H472K	CHIP C 4700PF	K	
C134,135			CK73FF1E104Z	CHIP C 0.10UF	Z	
C136			C92-1371-05	ELECTRO 100UF	6.3WV	
C141			CK73FF1E104Z	CHIP C 0.10UF	Z	
C142-144			CC73FSL1H101J	CHIP C 100PF	J	
C151			C92-1371-05	ELECTRO 100UF	6.3WV	

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C152			CK73FF1E104Z	CHIP C 0.10UF	Z	
C153			CK73FB1H103K	CHIP C 0.010UF	K	
C156			CK73FF1E104Z	CHIP C 0.10UF	Z	
C157			CK73FF1E104Z	CHIP C 0.10UF	Z	
C158			CK73FB1H682K	CHIP C 6800PF	K	
C159			CK73FF1E104Z	CHIP C 0.10UF	Z	
C160,161			C92-0167-05	CHIP-ELE 10UF	10WV	
C163,164			CK73FB1H103K	CHIP C 0.010UF	K	
C166-168			CK73FF1E104Z	CHIP C 0.10UF	Z	
C169			C92-0628-05	CHIP-TAN 10UF	10WV	
C170,171			CK73FF1E104Z	CHIP C 0.10UF	Z	
C181			C92-1371-05	ELECTRO 100UF	6.3WV	
C182			CK73FF1E104Z	CHIP C 0.10UF	Z	
C184			C92-0628-05	CHIP-TAN 10UF	10WV	
C185			C93-0031-05	CHIP-C 1000P	500V	
C185			C93-0048-05	CERAMIC CAPACITOR		
C186			C92-0628-05	CHIP-TAN 10UF	10WV	
C187			C92-1371-05	ELECTRO 100UF	6.3WV	
C188			CK73FB1H103K	CHIP C 0.010UF	K	
C189			CK73FB1H333K	CHIP C 0.033UF	K	
C190			C92-1371-05	ELECTRO 100UF	6.3WV	
C197			CK73FF1E104Z	CHIP C 0.10UF	Z	
C198			C92-1371-05	ELECTRO 100UF	6.3WV	
C200			C93-0032-05	CHIP C 10UF	10WV	
CN1			E40-8401-05	FLAT CABLE CONNECTOR		
CN2			E40-8410-05	FLAT CABLE CONNECTOR		
CN3			E40-8408-05	FLAT CABLE CONNECTOR		
CN4			E40-8409-05	FLAT CABLE CONNECTOR		
L1			L33-0545-05	CHOKE COIL		
L2			L33-0545-05	CHOKE COIL		
L3 ,4			L33-0369-05	CHOKE COIL		
L5 -9			L79-1216-05	LINE FILTER		
L5 -9			L92-0075-05	CHIP FERRITE		
L11			L79-1216-05	LINE FILTER		
L11			L92-0075-05	CHIP FERRITE		
L50			L33-1602-05	SMLL FIXED INDUCTOR		
X1			L77-2252-05	CRYSTAL RESONATOR		
X2			L78-0695-05	RESONATOR		
R1			RK73FB2A221J	CHIP R 220	J 1/10W	
R2			RK73FB2A2R2J	CHIP R 2.2	J 1/10W	
R3 ,4			RK73FB2A151J	CHIP R 150	J 1/10W	
R5 -7			RK73FB2A103J	CHIP R 10K	J 1/10W	
R8 -11			RK73FB2A101J	CHIP R 100	J 1/10W	
R13			RK73FB2A101J	CHIP R 100	J 1/10W	
R14			RK73FB2A4R7J	CHIP R 4.7	J 1/10W	
R15 ,16			RK73FB2A474J	CHIP R 470K	J 1/10W	
R17			RK73FB2A1R0J	CHIP R 1	J 1/10W	
R18			RK73FB2A3R3J	CHIP R 3.3	J 1/10W	
R40			RK73FB2A472J	CHIP R 4.7K	J 1/10W	
R41			RK73FB2A332J	CHIP R 3.3K	J 1/10W	
R52 ,53			RK73FB2A100J	CHIP R 10	J 1/10W	
R103			RK73FB2A102J	CHIP R 1.0K	J 1/10W	
R104			RK73FB2A103J	CHIP R 10K	J 1/10W	
R105			RK73FB2A472J	CHIP R 4.7K	J 1/10W	
R106			RK73FB2A335J	CHIP R 3.3M	J 1/10W	

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R107			RK73FB2A474J	CHIP R 470K J 1/10W		
R108,109			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R110,111			RK73FB2A103J	CHIP R 10K J 1/10W		
R112			RK73FB2A473J	CHIP R 47K J 1/10W		
R113			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R114			RK73FB2A103J	CHIP R 10K J 1/10W		
R115			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R116			RK73FB2A114J	CHIP R 110K J 1/10W		
R117			RK73FB2A474J	CHIP R 470K J 1/10W		
R118,119			RK73FB2A822J	CHIP R 8.2K J 1/10W		7
R120			RK73FB2A682J	CHIP R 6.8K J 1/10W		7
R121			RK73FB2A104J	CHIP R 100K J 1/10W		
R122			RK73FB2A682J	CHIP R 6.8K J 1/10W		7
R124			RK73FB2A153J	CHIP R 15K J 1/10W		
R125			RK73FB2A221J	CHIP R 220 J 1/10W		
R126			RK73FB2A153J	CHIP R 15K J 1/10W		
R127			RK73FB2A105J	CHIP R 1.0M J 1/10W		
R128-130			RK73FB2A103J	CHIP R 10K J 1/10W		
R131			RK73FB2A103J	CHIP R 10K J 1/10W		5
R132			RK73FB2A104J	CHIP R 100K J 1/10W		
R133			RK73FB2A684J	CHIP R 680K J 1/10W		
R134			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R135			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R136			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R137			RK73FB2A101J	CHIP R 100 J 1/10W		
R138			RK73FB2A100J	CHIP R 10 J 1/10W		5
R139			RK73FB2A1R0J	CHIP R 1 J 1/10W		
R140			RK73FB2A151J	CHIP R 150 J 1/10W		
R141			RK73FB2A561J	CHIP R 560 J 1/10W		
R142,143			RK73FB2A103J	CHIP R 10K J 1/10W		
R144,145			RK73FB2A221J	CHIP R 220 J 1/10W		
R146-149			RK73FB2A101J	CHIP R 100 J 1/10W		
R150			RK73FB2A221J	CHIP R 220 J 1/10W		
R158,159			RK73FB2A104J	CHIP R 100K J 1/10W		
R160			RK73FB2A4R7J	CHIP R 4.7 J 1/10W		
R161-163			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R164			RK73FB2A681J	CHIP R 680 J 1/10W		
R165			RK73FB2A104J	CHIP R 100K J 1/10W		
R166			R92-1854-05	RN 2.2 K 1/2W		
R167,168			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R169			R92-1853-05	CHIP-RN 1 J 1/4W		
R170,171			RK73FB2A103J	CHIP R 10K J 1/10W		
R172-174			RK73FB2A473J	CHIP R 47K J 1/10W		
R175-177			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R178			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R179			RK73FB2A473J	CHIP R 47K J 1/10W		
R180			RK73FB2A103J	CHIP R 10K J 1/10W		
R181-183			RK73FB2A473J	CHIP R 47K J 1/10W		
R184,185			RK73FB2A103J	CHIP R 10K J 1/10W		
R186,187			RK73FB2A474J	CHIP R 470K J 1/10W		
R188-190			RK73FB2A103J	CHIP R 10K J 1/10W		
W6 ,7			R92-0670-05	CHIP R 0 OHM		
W8			R92-0670-05	CHIP R 0 OHM		
W9 ,10			R92-0670-05	CHIP R 0 OHM		
W11			R92-0679-05	CHIP R 0 OHM		

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W108			R92-0679-05	CHIP R 0 OHM		
D1 ,2			F1J6TP	DIODE		
D101			MA111	DIODE		
IC1			CXA2523AR	ANALOGUE IC		
IC2			CXD2654R	MOS-IC		
IC3			HD74UH08	MOS-IC		
IC4			TA8406F	IC		
IC5			BD7911FV	MOS-IC		
IC6			BR24C02F	MEMORY IC		
IC6			S-24C02BEJ-TB	MEMORY IC		
IC7			HM51W4400BT-7	MEMORY IC		
IC7			LC32S4400T-10	MEMORY IC		
IC7			MN41V4400TT-08	MEMORY IC		
IC8			BH6511FS	ANALOGUE IC		
IC10			L88M33T	ANALOGUE IC		
IC12			AK4522-VF	MOS-IC		
IC24			HD6432227N06FA	U-COM IC		
IC30			TA8409F	IC(MOTOR DRIVER)		
Q1			FMW1	TRANSISTOR		
Q2 ,3			DTA144EUA	TRANSISTOR		
Q4 ,5			DTC114YUA	TRANSISTOR		
Q6			2SA1576A(R,S)	TRANSISTOR		
Q7			2SB798-DL	TRANSISTOR		
Q8			2SA1576A(R,S)	TRANSISTOR		
Q9			DTA124EUA	TRANSISTOR		
Q10 -13			DTC124EUA	TRANSISTOR		
<b>CD MECHANISM (D40-1674-05)</b>						
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	EXTENSIDN SPRING(ARM L)		
5	1A		G01-4135-08	EXTENSIDN SPRING(LOCK)		
6	1B		G01-4136-08	EXTENSIDN SPRING(TRIGGER A)		
7	1A		A11-1160-08	SUB CHASSIS ASSY(CLAMP)		
8	1A		G16-0971-08	SHEET(CLAMP)		
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	RITAINER		
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	EXTENSIDN 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)		

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  $\Delta$  indicates safety critical components.

PARTS LIST

RD-M52MD/M72MD





# RD-M52MD/M72MD

**Note:**

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

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