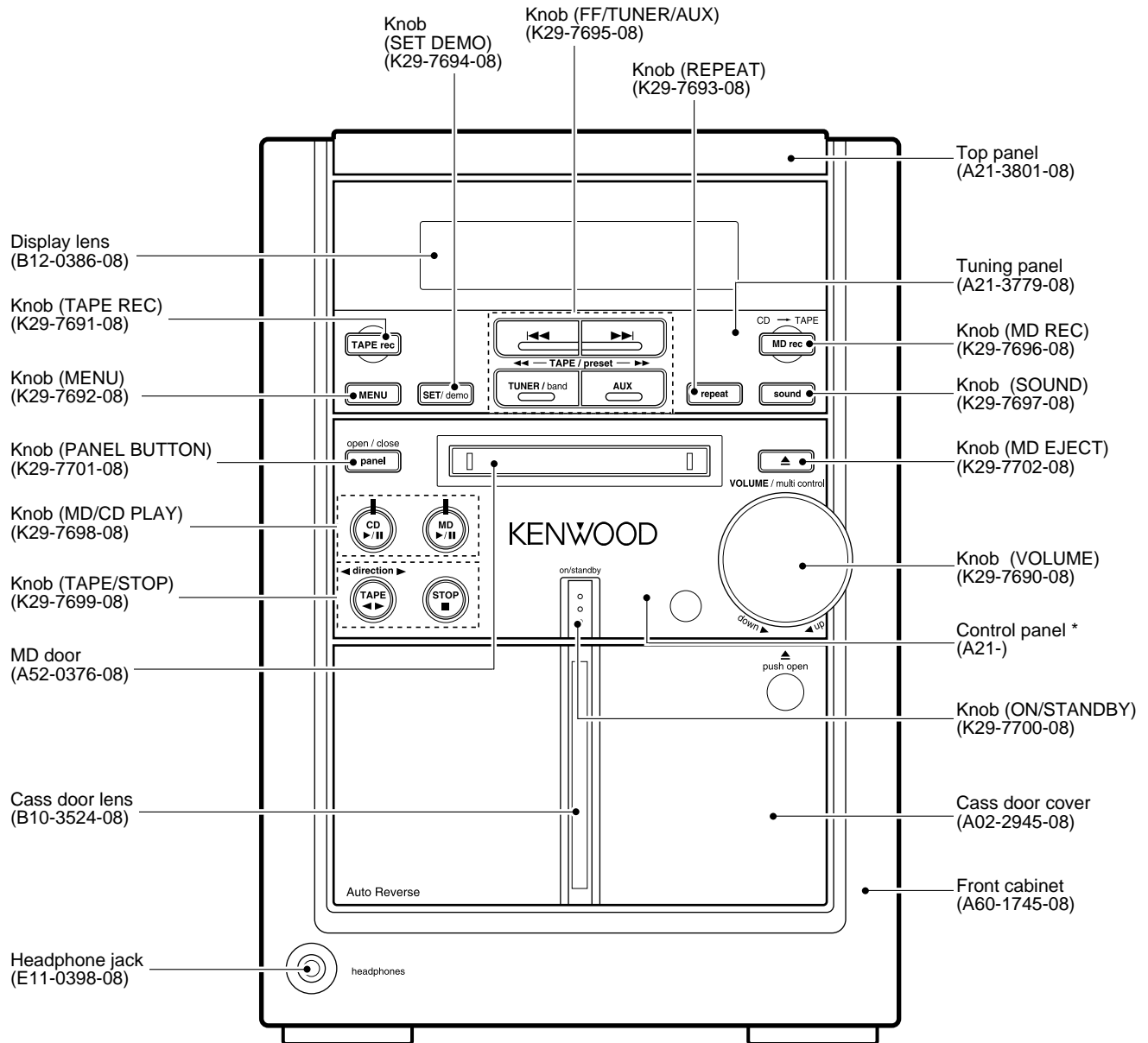


MICRO HiFi COMPONENT SYSTEM
**RXD-M31MD/
 LS-M31(M)**
SERVICE MANUAL
 (HM-381MD)

KENWOOD

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* Refer to parts list on page 42.

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

KENWOOD-Crop. certifies this equipment conforms to DHHS Regulations No. 21 DFR 1040. 10, Chapter 1, Subchapter J.
DANGER : Laser radiation when open and interlock defeated.
AVOID DIRECT EXPOSURE TO BEAM



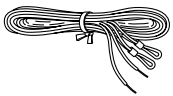
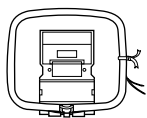
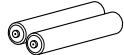
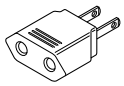
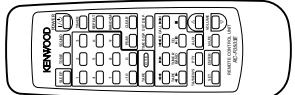
RXD-M31MD

CONTENTS / ACCESSORIES / CAUTIONS

Contents

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Accessories

<p>FM indoor antenna (1) (T90-0801-05)</p> 	<p>Loop antenna (1) (T90-0846-08)</p> 	<p>Batteries (R6/AA) (2)</p> 	<p>* AC plug adaptor (1) (E03-0115-05)</p>  <p>* Use to adapt the plug on the power cord to the shape of the wall outlet. (Accessory only for regions where use is necessary.)</p>
<p>Remote control unit (1) (A70-1241-05) : RC-F503 (K,P,M) (A70-1287-05) : RC-M0505E (E,T)</p> 			
<p>Battery cover (A09-1114-08)</p>			

System configuration

SYSTEM	MAIN UNIT	SPEAKER
HM-381MD	RXD-M31MD	※LS-M31(M)

※ Refer number for LS-M31(M), refer to parts list on page 52.

Cautions

Note related to transportation and movement

Before transporting or moving this unit, carry out the following operations.

- 1 Remove the CD or MD from the unit.
- 2 Press the ►/|| key of the MD.

MD NO DISC

- 3 Press the ►/|| key of the CD.
- 4 Wait for some time and verify that the display becomes as shown in the figure.

CD NO DISC

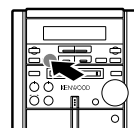
- 5 Wait a few seconds and turn the unit OFF.

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.

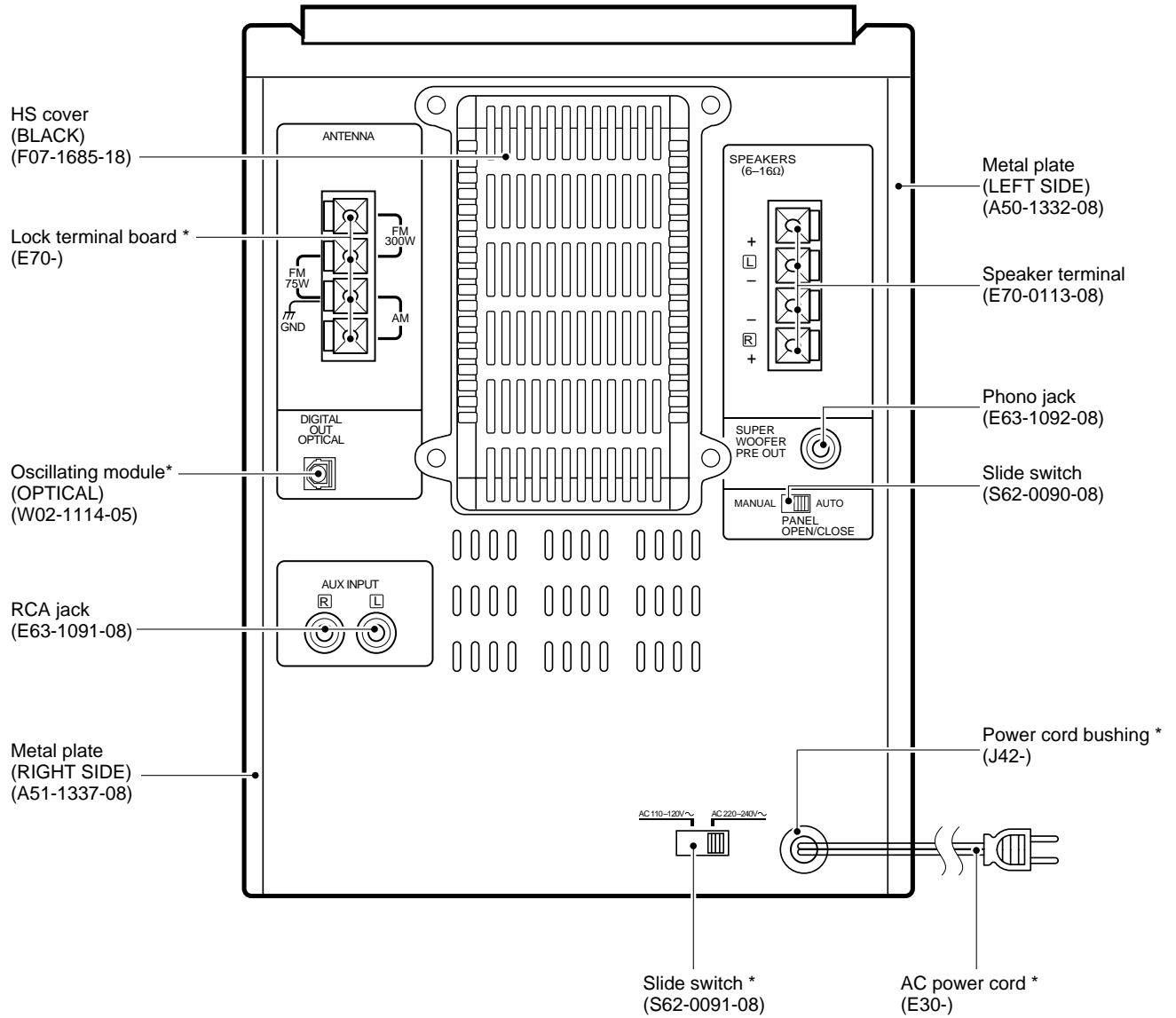
- Please note that resetting the microcomputer clears the contents stored in and it returns to condition when it left the factory.

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

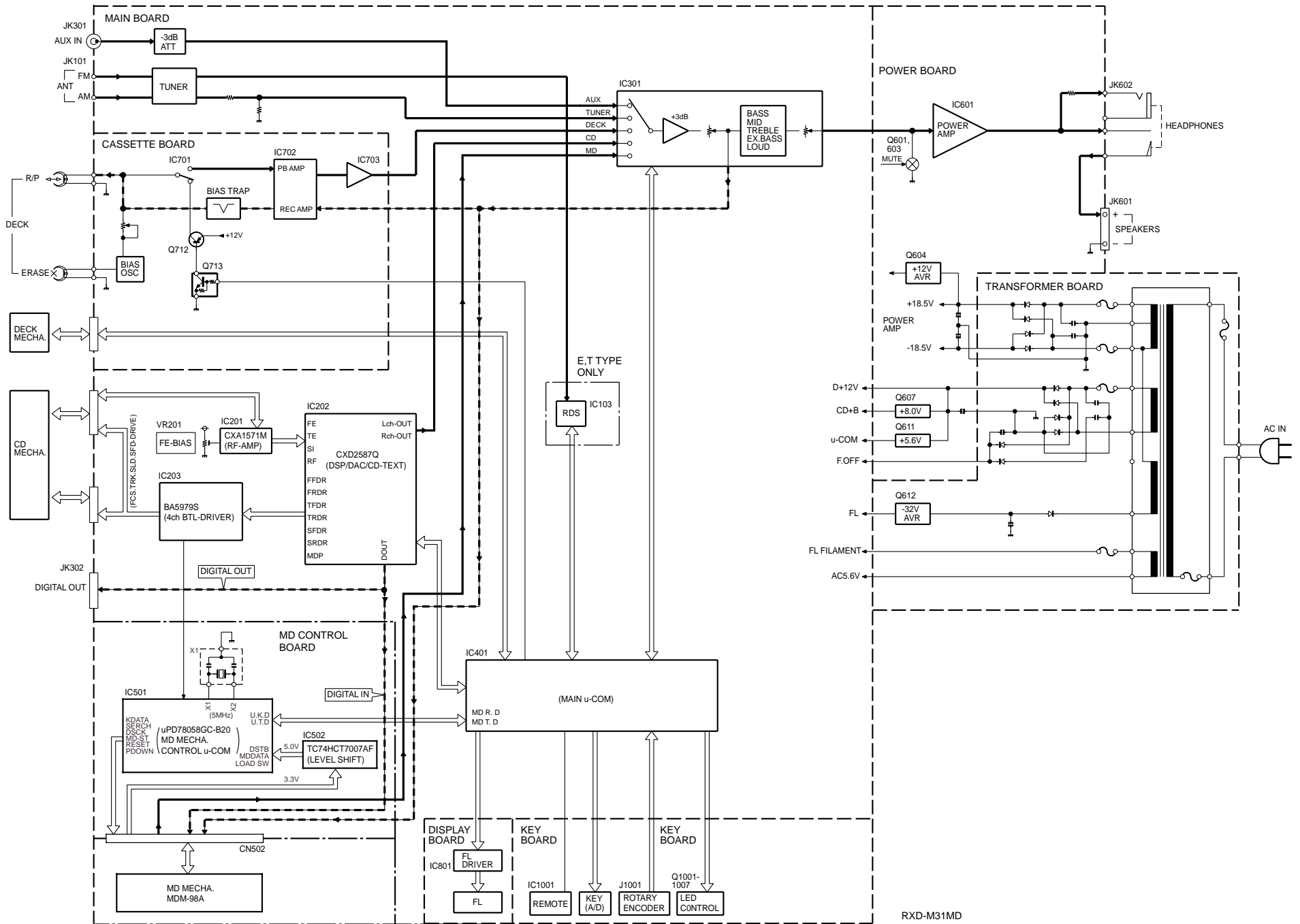


RXD-M31MD

EXTERNAL VIEW



* Refer to parts list on page 42.



1. Initialization

1-1 Setting of initial conditions

While pressing the [SET] key, plug the AC power cord into an AC power outlet.

1-2 Initializing operation

- A microcomputer is initialized for start when the AC power is turned on while pressing the [SET] key. At that time, CD mechanism, MD mechanism and CASSETTE mechanism are also initialized.
- During the initial operation, the display shows "INITIALIZE" and normal indication, after that it goes off immediately.

1-3 Initial items and back up data

ITEMS		
AMP	※POWER	OFF
	※VOLUME	15
	※BALANCE	CENTER
	LOUDNESS	OFF
	EX. BASS	ON
	※INPUT SEL	TUNER
TUNER	※AUX INPUT	0
	※BASS	0
	※TREBLE	0
	※BAND	FM
	※LAST f	LIMIT
	※LAST Pch	---
CLOCK TIMER	※AUTO/MONO	AUTO
	※Pch	TEST f
	CLOCK	AM 12 : 00
	※PROG ON	AM 12 : 00
	※PROG OFF	AM 12 : 00
	※PRO MODE	PLAY
	※SOURCE	TUNER
	※Pch	1
	※EXE	OFF
	※OTT	OFF
CD	SLEEP	OFF
	PLAY MODE	TRACK
	REPEAT	OFF
	RANDOM	OFF
DECK	PLAY MODE	STOP
	※DIRECTION	FORWARD
	※RVS MODE	▷
OPERATION MODE	STOP	

※back up data

1-4 Mechanism initialization

1-4-1 CD mechanism

- If a mechanism error occurs, "C" is indicated on the display.

1-4-2 MD mechanism

- The MD ON code is input within 4 seconds after turned the power port on, the MD initial code (D122H) is output.
- If the MD on code is not input, the error indication is displayed as "M" on the display.

1-4-3 CASSETTE mechanism

- If a mechanism error occurs, "X" is indicated on the display.

2. TUNER preset frequency

ch	Destination		
	K2	E2	E1/H
1	FM 97.50MHz	FM 97.50MHz	FM 97.50MHz
2	FM 108.00MHz	FM 108.00MHz	FM 108.00MHz
3	AM 630kHz	AM 630kHz	AM 630kHz
4	AM 1000kHz	AM 999kHz	AM 999kHz
5	AM 1440kHz	AM 1440kHz	AM 1440kHz
6	AM 1610kHz	AM 1602kHz	AM 1602kHz
7	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
8	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
9	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
10	FM 89.10MHz	FM 89.10MHz	FM 89.10MHz
11	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
12	FM 90.00MHz	FM 90.00MHz	FM 90.00MHz
13	FM 106.00MHz	FM 106.00MHz	FM 106.00MHz
14	AM 530kHz	AM 531kHz	AM 531kHz
15	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
16	FM 98.00MHz	FM 98.00MHz	FM 98.00MHz
17	FM 98.50MHz	FM 98.50MHz	FM 98.50MHz
18	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
19	AM 990kHz	AM 990kHz	AM 990kHz
20	FM 97.40MHz	FM 97.40MHz	FM 97.40MHz
21	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
22	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
23	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
24	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
25	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
26	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
27	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
28	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
29	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
30	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
31	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
32	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
33	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
34	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
35	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
36	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
37	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
38	FM 87.50MHz	FM 87.50MHz	FML 74.00MHz
39	FM 87.50MHz	FM 87.50MHz	FML 65.00MHz
40	FM 87.50MHz	FM 87.50MHz	FML 69.00MHz

3. Destination list of TUNER

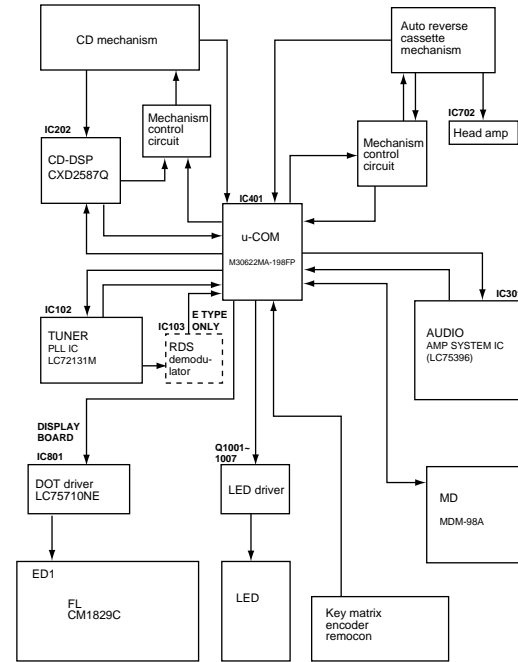
(DSW4=50pin, DSW3=49pin, DSW2=48pin)

Destination	U-COM Destination	Discrimination			Band	Receiving frequency range	Channel space	IF	RF
		DSW4	DSW3	DSW2					
K, P	K1	0	0	0	FM	87.5MHz~108.0MHz	100kHz	+10.7MHz	25kHz
					AM	530kHz~1700kHz	10kHz	+450kHz	10kHz
M, X	K2	0	0	1	FM	87.5MHz~108.0MHz	100kHz	+10.7MHz	25kHz
					AM	530kHz~1610kHz	10kHz	+450kHz	10kHz
J	J	0	1	0	FM	76.0MHz~108.0MHz	100kHz	-10.7MHz	25kHz
					AM	531kHz~1629kHz	9kHz	+450kHz	9kHz
E, T	E1 RDS	1	1	0	FM	87.5MHz~108.0MHz	50kHz	+10.7MHz	25kHz
					AM	531kHz~1602kHz	9kHz	+450kHz	9kHz

0=(input low) 1=(input high)

4. Main microprocessor M30622MA-198FP (MAIN BOARD IC401)

4-1 Microprocessor periphery block diagram



4-2 Key matrix

Vref = 5V

VOLTAGE [V]	0.357 < ≤1.061	1.061 < ≤1.726	1.726 < ≤2.437	2.437 < ≤3.156	3.156 < ≤3.827	3.827 < ≤4.586	4.586 <
A/D (hex)	12h < ≤36h	36h < ≤58h	58h < ≤7Ch	7Ch < ≤A1h	A1h < ≤C3h	C3h < ≤EAh	EAh <
KEY1 89PIN	SOUND	REPEAT	MENU	SET	POWER	-	KEY OFF
KEY2 90PIN	STOP ■	S. DOWN ◀◀	CD ▶▶	MD ▶▶	MD rec (AUX)	-	KEY OFF
KEY3 91PIN	S. UP ▶▶	EJECT ▲	TUNER/band ◀◀	AUX ▶▶	TAPE	TAPE REC	KEY OFF

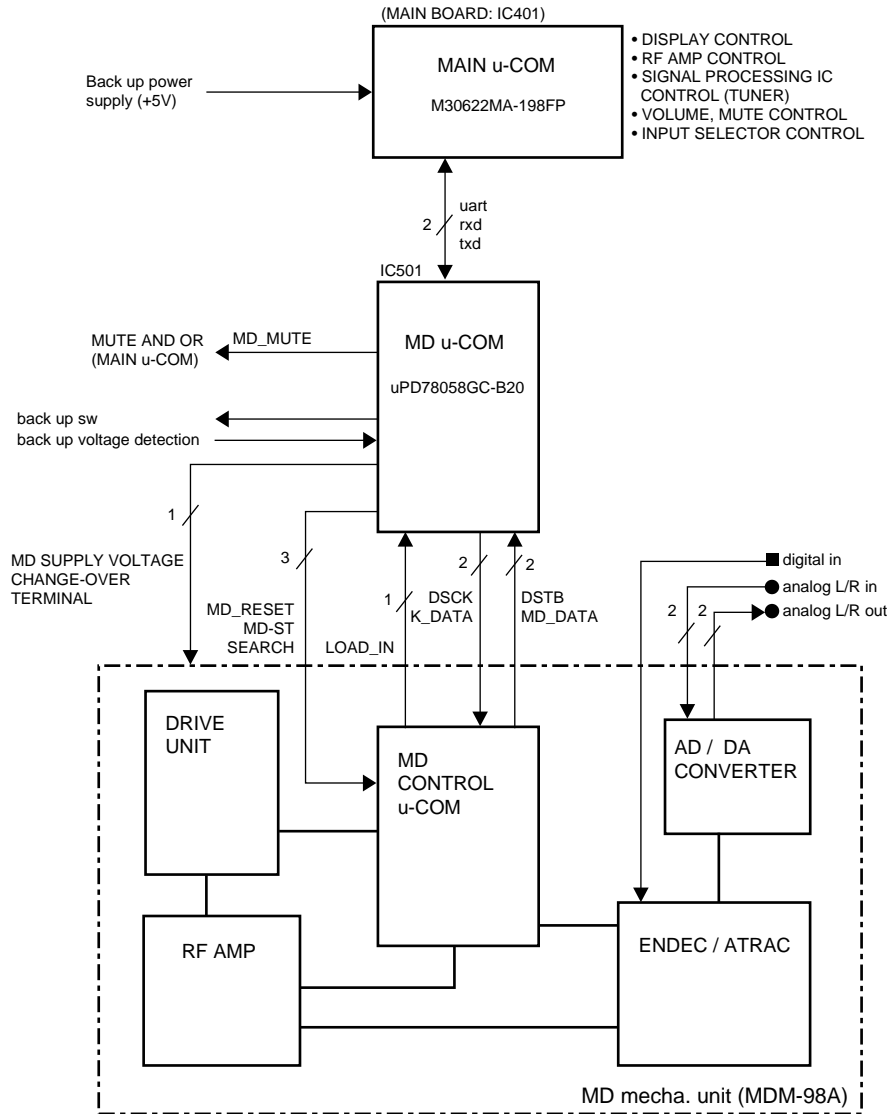
4-3 Pin description of main microprocessor

Pin No.	Name	I/O	Description
1	CE	O	SYSTEM IC(LC75396)/PLL IC(LC72131)CE
2	PLL DO	I	PLL data input.
3	SD	I	Tuner SD detector input. H: no tuned L: tuned
4	STEREO	I	Tuner stereo detector input. H: mono L: stereo
5	EMPHASIS	O	No used.
6	RDS DATA	I	RDS data input.(E/T type only)
7	CE	I	AC off detector input. H: AC on L: AC off
8	BYTE	I	Ground.
9	CNVSS	I	Ground.
10	XCIN	I	Timer clock(32.768kHz).
11	XCOUT	O	Timer clock(32.768kHz).
12	RESET	I	U-com reset signal input. H: normal L: reset
13	XOUT	O	Main clock.
14	VSS	-	Ground.
15	XIN	I	Main clock.
16	VCC	-	Power supply(+5.0V)
17	NMI	I	Power supply(+5.0V)
18	REMOCON	I	Remocon signal input.
19	RDX CLK	I	RDS clock input.(E/Ttype only)
20	SCOR	I	Sub code synchro signal input.
21	CD DC OFF	O	Power supply control for CD DSP. H: off L: on
22	SCLK	O	CD sense data read out clock.
23	SENSE	I	CD sense input.
24	CD CLK	O	CD DSP clock.
25	XLAT	O	CD DSP latch output.
26	CD DATA	O	CD DSP data output.
27	CD RST	O	CD DSP reset signal output. H: normal L: reset
28	SQCK	O	CD sub code clock.
29	SQSO	I	Input of CD sub code.
30	NC	O	No used.
31	FL DATA	O	Data output of FL driver.
32	NC	O	No used.
33	FL CLK	O	Clock output of FL driver.
34	CD ZD	-	No used.
35	UART1	O	Transmission data output to MD(UART).
36	UART2	I	Data input from MD(UART).
37	LCD	O	CD laser output control. H: off L: on
38	NC	O	No used.
39	MD RST	O	MD reset signal output. H: normal L: reset
40	CD MON	O	ON/OFF control output of disc monitor. H: on L: off
41	NC	O	No used.
42	DM SHORT	O	Same as CD power signal. H: off L: on
43	DOOR SW	I	Input port of CD door switch. H: open L: close
44,45	NC	O	No used.
46	MODEL	I	Input port of model discrimination.
47	DOLBY	I	No used.
48-50	CODE2-4	I	Discrimination of tuner destination.
51	FL RST	O	Reset signal output of FL driver.

Pin No.	Name	I/O	Description												
52	PWX33	O	Control port of MD CE.												
53	ENC1	I	Rotary encoder input(vol.A).												
54	ENC2	I	Rotary encoder input(vol.B).												
55	LED5	O	Control port of LED(MD). H: on L: off												
56	LED4	O	Control port of LED(CD). H: on L: off												
57	LED3	O	Control port of LED(standby,RED). H: off L: on												
58	LED2	O	Control port of LED(standby,GRN). H: off L: on												
59	LED1	O	Control port of LED(FWD). H: on L: off												
60	LED0	O	Control port of LED(RVS). H: on L: off												
61	FL CE	O	Output port of CE(FLdriver).												
62	VCC	-	Power supply.												
63	NC	O	No used.												
64	VSS	-	Ground.												
65	A/B-2	O	Deck activity choose mode. <table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td>65</td> <td>66</td> <td></td> </tr> <tr> <td>H</td> <td>H</td> <td>REC</td> </tr> <tr> <td>L</td> <td>H</td> <td>REC PAUSE,ARM</td> </tr> <tr> <td>L</td> <td>L</td> <td>PLAY</td> </tr> </table>	65	66		H	H	REC	L	H	REC PAUSE,ARM	L	L	PLAY
65	66														
H	H	REC													
L	H	REC PAUSE,ARM													
L	L	PLAY													
66	A/B-1	O	Deck activity choose mode. <table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td>L</td> <td>H</td> <td>REC PAUSE,ARM</td> </tr> <tr> <td>L</td> <td>L</td> <td>PLAY</td> </tr> </table>	L	H	REC PAUSE,ARM	L	L	PLAY						
L	H	REC PAUSE,ARM													
L	L	PLAY													
67	CPM	O	Deck motor control. H: on L: off												
68	SOL	O	Deck solenoid control. H: on L: off												
69	REC F SW	I	Deck FWD REC switch input. H: off L: on												
70	REC R SW	I	Deck RVS REV switch input. H: off L: on												
71	PACK SW	I	Deck pack switch input. H: off L: on												
72	Cro2 SW	-	No used.												
73	PLAY SW	I	Deck play switch input. H: off L: on												
74	B1/2	-	No used.												
75	A120/70	-	No used.												
76	BIAS	O	Deck bias control. H: on L: off												
77	NOR	-	No used.												
78	REC/PLAY	-	No used.												
79	NR/ON	-	No used.												
80	S.CL	O	Clock output to system IC/PLL IC.												
81	PRT MD	I	MD protection. H: protection on												
82	FAN H/L	-	No used.												
83	FAN ON/OFF	-	No used.												
84	A MUTE	O	Audio muting control. H: off L: on												
85	CD A MUTE	O	CD analog muting control. H: on L: off												
86	TU.MT	O	Tuner muting control. H: on L: off												
87	PWR07	O	Power relay control. H: on L: off												
88	PRT07	I	Detection port of protection. H: protection on												
89-91	KEY1-KEY3	I	Key A/D input(1-3).												
92,93	A/DP1,A/DP2	-	No used.												
94	TA.MT	O	Muting control of DECK. H: on L: off												
95	RDS SLEVEL	I	RDS S-level input.(E/T type only)												
96	AVSS	-	Ground.												
97	PHOTO	I	Deck reel detector input.												
98	VREF	-	Reference voltage.(no back up)												
99	AVCC	-	Power supply.(back up)												
100	S.DI	O	Data output to system IC/PLL IC.												

5. Composition (MD section)

5-1 Microprocessor periphery block diagram



5-2 Pin description of MD u-com : UPD78058GC-B20(MD control board, IC501)

Pin No.	Name	I/O	Description
1	PDOWN	O	MDM-98A power down detector.
2	SEARCH	O	CD search output.
3	LOAD IN	I	Load switch input.
4	AVSS	-	A/D power supply(connected to ground).
5	GND	-	No used.
6	NC	-	No used.
7	AVREF1	-	D/A reference voltage(+5.0V).
8	UART2	I	Communiation from main u-com(UART RXD).
9	UART1	O	Communiation to main u-com(UART TXD).
10	NC	-	No used.
11	MD DATA	I	MD IC input data(MDM-98A input data).
12	K DATA	O	MD IC output data(MDM-98A output data).
13	DSCK	O	MD IC clock output(MDM-98A).
14	DSTB	I	Strobe input for MD IC(MDM-98A).
15	COMM ANS	I	No used.
16	COMM DIN	I	No used.
17	COMM DOUT	O	No used.
18	COMM CLK	I/O	No used.
19	COMM REQ	O	No used.
20-31	-	-	-
32	6.5/5.0V	O	Change-over of load voltage for MD unit. (disc load/eject : H other : L)
33	VSS	-	Ground.
34-43	-	-	No used.
44	INISW	I	Initial switch input.
45-52	-	-	No used.
53-55	GND	-	No used.
56-58	NC	-	No used.
59	SRESET	O	No used.
60	RESET	I	Reset signal input.
61	GND	-	No used.
62-66	-	-	No used.
67	CE	I	Detection signal input of AC OFF.
68	VDD	-	U-com power supply.
69	X2	-	5MHz oscillator.
70	X1	I	5MHz oscillator.
71	IC	-	No used.
72	NC	-	No used.
73	GND	-	No used.
74	AVDD	-	A/D power supply.
75	AVREFO	I	A/D reference voltage.
76	BACKUP	O	Detection signal(A/D) input for back up. (back up : more than 2.2V no back up : less than 2.2V)
77	AMUTE	O	Analog signal input. H : mute on L : mute off
78	BACKSW	O	Detection switch input for back up. H : on(in case of CE=H) L : off(in case of CE=L)
79	MD RESET	O	Reset signal input of MD u-com. H : normal L : MD u-com reset
80	MD ST	O	ST-ID output(MD ON).

6. Test mode

6-1 Test mode of the receiver

(1) Setting of the test mode.

While pressing the [Band] key, plug the AC power cord into an AC power outlet.

(2) Canceling of the test mode.

Unplug an AC power cord.

(3) Condition in test mode.

POWER ●●●●● ON

SELECTOR ●●● TUNER [BAND]

FL, LED ●●●●● All the fluorescent display indicate and LEDs light. (The all illuminated state is cleared by pressing any main unit key or remocon key.)

EX. BASS ●●●●● OFF

(4) Basic operation in test mode.

- ① The muting during mode selection is not controlled in the test mode.
 - ② The test mode is cancelled when the AC power is turned OFF.
- (5) The operation of the keys in the test mode.

SERECTOR OPERATION KEY	TUNER	AUX		
MENU	NORMAL ACTIVITY	← DISPLAY →	DISPLAY →	← DISPLAY →
◀	P.CALL : DOWN	VOLUME 1	INPUT-6(dB)	-
■	P.CALL : 10 STEP CHANGEOVER 10 → 20 → 30 → 40 → 01	VOLUME 40	INPUT 0 (dB)	-
▶	P.CALL : UP	VOLUME 80	INPUT+3(dB)	-
REPEAT	← EQU.MAX → EQU.MINI → EQU.FLAT			
SOUND (E.T only)	S-LEVEL DISPLAY ATT OFF * * ↓ ATT ON * * ↓ TUNER ATT OFF (NORMAL DISPLAY) * * : S-LEVEL A/D VALUE(HEX)	NORMAL ACTIVITY		

6-2 Test mode of DECK section

- (1) Setting
While pressing the TAPE key(DECK), plug the AC power cord into an AC power outlet.
- (2) Resetting
Disconnect the AC power cord from an AC power outlet or press the [ON/STANDBY] key.
- (3) Operation in TEST mode
- (a) Initial condition

Item	Condition
Power	ON
Selector	TAPE
Main VOL.	0dB (VOL. 80)
Input level(AUX)	-6dB(INPUT 0)
EX. bass	OFF
FL, LED, LCD	All the FLs, LEDs, and LCDs are turned on

- (b) 4-sec REC
- If the REC key is pushed, the system record for 4sec. Then, it rewinds to the REC starting position and plays back automatically.
 - If the REC key is pushed during the 4-sec REC operation, the system records further for 4-sec, then returns to the starting position of the first 4-sec REC operation and plays back.
- (c) Mechanism half switches indication
The mechanism half switches status are indicated "/" or "TAPE" on the display as shown below.

DOT (DISPLAY)	1st figure	2nd figure	3rd figure	4th figure
MECHA. HALF SWITCH	FWD REC INHIBIT DETECTION SW	RVS REC INHIBIT DETECTION SW	CRO2(TYPE II) DETECTION SW	CASSETTE HALF DETECTION SW
NG	/	/	/	/
OK	T	A	P	E

6-3 Test mode of MD player

No.	Contents of TEST mode	Keys	Operation & Indication	Remarks
6-3-1 Inspection mode Setting : While pressing the [MD REC] Key, plug the AC power cord into an AC power outlet. The "INSPECTION" shows on the display. Cancellation : Unplug the AC power cord from an AC power outlet.				
1	Analog through test mode	SOUND	<ul style="list-style-type: none"> • The "ANALOG" is indicated on the display for a second. • AUX input level→MID • Source indicator (MD) is turned ON . 	
2	Digital through test mode	SOUND	<ul style="list-style-type: none"> • The "DIGITAL1" is indicated on the display for a second. "DIGITAL1"→CD input • Source indicator (MD) is turned ON. 	

6-3-2 MD TEST mode for adjustment

1. Preparation for adjustment

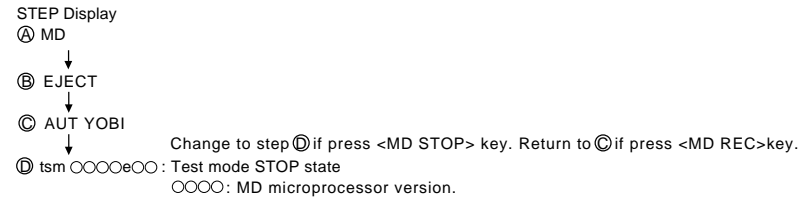
Test disc

	Type	Test disc
1	High reflection disc	TGYS1 (SONY)
2	Low reflection disc	Recording minidisc
3	—————	Head Adjusting transparent

2. Test mode

Test mode setting method

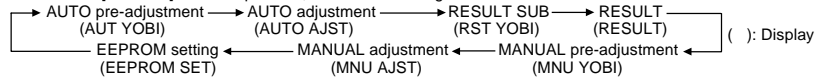
1. While pressing the [MD PLAY] key, plug the AC power cord into the AC power outlet.
(Start from Ⓐ if no disc load, Ⓑ if disc load.)



* Repair service is available for AUTO pre-adjustment and AUTO adjustment only.
Press MD STOP key to cancel the test mode if in needless test modes.

Entering the specific mode

Whenever the [MD REC] button is pressed, the mode is changed.



• Canceling the test mode

When the POWER button is pressed, the test mode is canceled, and the POWER OFF state is set.

• **Test Mode**

1. AUTO pre-adjustment mode	<ul style="list-style-type: none"> Automatic pre-adjustment is performed. (After adjustment the grating adjustment mode is set.) The adjustment value is output with the aid of system controller interface.
2. AUTO adjustment mode	<ul style="list-style-type: none"> Automatic adjustment is performed. The adjustment value is output with the aid of system controller interface. Continuous playback is performed. (Error rate indication, jump test)
3. RESULT sub-mode*	<ul style="list-style-type: none"> The measurement value, set value and calculated value are indicated. The set value is changed manually (in servo OFF state).
4. RESULT mode (final adjustment)*	<ul style="list-style-type: none"> The set value (after calculation) is indicated. The set value is changed manually (in servo OFF state).
5. MANUAL pre-adjustment mode*	<ul style="list-style-type: none"> RF side manual adjustment is performed. Focus and tracking signal ATT manual adjustment is performed. Focus and tracking signal offset setting is performed.
6. MANUAL adjustment mode*	<ul style="list-style-type: none"> Focus and tracking signal ATT manual adjustment is performed.
7. EEPROM setting mode*	<ul style="list-style-type: none"> Don't adjust.
8. TEST-PLAY mode*	<ul style="list-style-type: none"> Continuous playback from the specified address is performed. C1 error rate measurement,
9. TEST-REC mode*	<ul style="list-style-type: none"> Continuous recording from the specified address is performed. Change of record laser output (servo gain is also changed according to laser output)
10. EJECT mode*	<ul style="list-style-type: none"> TEMP setting (of EEPROM setting)

* This mode is not used for service.

1. AUTO pre-adjustment mode (Low reflection disc only)

Step No.	Setting Method	Remarks	Display
Step 1	Test mode STOP state		[t s m○○○○ e ○○]
Step 2	Press once the MD REC button.	AUTO pre-adjustment menu	[ATU YOBI]
Step 3	Press once the MD PLAY button.	The slide moves to the innermost periphery, and automatic pre-adjustment is started. <ul style="list-style-type: none"> During automatic adjustment ※※※ changes as follows. HAO→RFG→SAG→SBg→PTG→PCH→GTG→GCH→RCG→SEG→RFG→SAG→HAO→HEO→TCO→LAO If adjustment is OK, Step 4. If adjustment is NG, Step 5. 	[※※※ : - - - - -]
	End of adjustment		
Step 4	Grating adjustment, adjustment value output Press once the MD STOP button.	STEP 2	[_ C O M P L E T E _]
Step 5	Adjustment value output Press once the MD STOP button.	STEP 2 AUTO pre-adjustment menu	[A U T Y O B I]

• ※※※ : Adjustment name, □□□□ : Address

2. AUTO adjustment mode

Step No.	Setting Method	Remarks	Display
Step 1	Test mode STOP state		[t s m○○○○ e ○○]
Step 2	Press the MD REC button two times.	AUTO adjustment menu	[A U T O _ A J S T _]
Step 3	Press once the MD PLAY button.	The slide moves to the innermost periphery, and automatic adjustment is started. <ul style="list-style-type: none"> In case of high reflection disc ※※※ changes as follows. PEG→HAG In case of low reflection disc ※※※ changes as follows. PEG→LAG→GCG→GEG→LAG If adjustment is OK, Step 4. If adjustment is NG, Step 7. 	[※※※ : - - - - -]
	End of adjustment		
Step 4	Adjustment value output Press the MD PLAY button. Press the MD STOP button.	STEP 5 STEP 2	[_ C O M P L E T E _]

Step No.	Setting Method	Remarks	Display
Step 5	Continuous playback (groove section)		[a □□□□○○○○]
Step 6	Press the MD STOP button.	STEP 2 AUTO adjustment menu	
Step 7	Adjustment value output Press the MD STOP button.	STEP 2 AUTO adjustment menu	[C a n ' t _ A D J .]

• ※※※ : Adjustment name, ○○ : Measurement value, □□□□ : Address

● **Mechanism Adjustment**

1. Optical pickup grating inspecting method

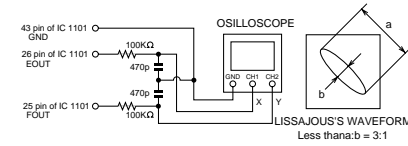


Figure 1-1 Optical Pickup Grating Deviation Measuring Method

After the automatic adjustment is performed in the AUTO mode (TEST mode) with the aid of high reflection MD disc ("COMPLATE" is displayed), the Lissajous's waveform (x-y) is adjusted.

- Slightly loosen the 3 screws of spindle moto, and make an adjustment, observing the Lissajous's waveform.
- After adjustment tighten the screw in order of ①, ②, ③.

2. Jitter adjustment and checking method

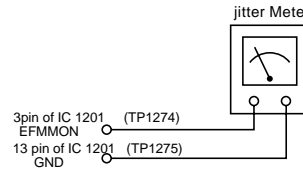


Figure 1-3 Jitter connection diagram

After performing automatic adjustment in AUTO mode of TEST mode using the low reflection MD disc, check this jitter in pit continuous playback and groove continuous playback mode.

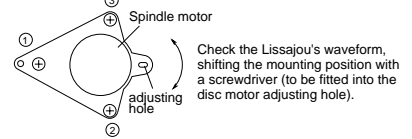
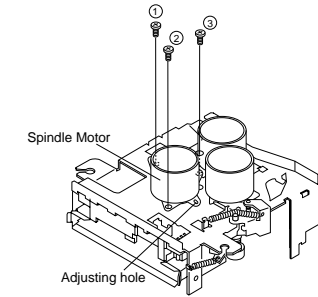


Figure 1-2

6-4 Test mode of CD player

6-4-1 Main unit

- (1) Setting of the test mode
While pressing the [CD PLAY] key, plug the AC power cord into an AC outlet.
- (2) Canceling of the test mode.
Unplug the AC power cord from AC power outlet.
- (3) Operation

KEY	DISPLAY	OPERATION															
[CD PLAY] +AC	CD 5 01	POWER ON, SEL CD Mecha. initialization															
STOP	CD 5 01	STOP															
PLAY/PAUSE PAUSE ↓ ↑ PLAY (Cyclically changed)	CD 5 05 PLAY MARK ON ▶	05 MODE															
	CD 5 03 PAUSE MARK ON ■	03 MODE (TRACKING SERVO OFF)															
SKIP DOWN	CD 5	Indication : Adjustment value/Mean value (stop mode only)/HEX <table border="1" style="font-size: small;"> <tr> <td>DOT section</td> <td>TNO section</td> <td>SEC. section</td> </tr> <tr> <td>TB/FB</td> <td>TB value</td> <td>FB value</td> </tr> <tr> <td>TG/FG</td> <td>TG value</td> <td>FG value</td> </tr> <tr> <td>FE/RF</td> <td>FE value</td> <td>RF value</td> </tr> <tr> <td>TE/VC</td> <td>TE value</td> <td>VC value</td> </tr> </table>	DOT section	TNO section	SEC. section	TB/FB	TB value	FB value	TG/FG	TG value	FG value	FE/RF	FE value	RF value	TE/VC	TE value	VC value
DOT section	TNO section	SEC. section															
TB/FB	TB value	FB value															
TG/FG	TG value	FG value															
FE/RF	FE value	RF value															
TE/VC	TE value	VC value															
SKIP UP	CD 5 06	Read TOC → play															

7. MD mechanism error message

DISPLAY	DESCRIPTION
BLANK DISC	Non Recorded disc
CANT COPY	Inhibit to record by SCMS
CANT EDIT	Inhibit to edit by MD standard
CANT REC	Inhibit to record by disc damage(10 or more defects/recordable cluster is 0)
DISC ERROR**	OR : UTOC read error or FTNO>LTNO (edit/record) permit ALL ERASE only DO : Start address TNO>endless TNO (playback) handle poor TNO as 1SG (edit/record) permit ALL ERASE only C0 : Write poor data in UTOC0 C1 : Write poor data in UTOC1 C2 : Write poor data in UTOC2 C4 : Write poor data in UTOC4 (play back) playback even if address roof(C0) (edit/record) permit ALL ERASE only
DISC FULL	No recordable area
MECH ERR**	10-13 : head poor down 20-23 : head poor up
no disc	No disc in the unit
NO TRACKS	Disc recorded title only
NOT AUDIO	Disc recorded audio signal.
PLAY ONLY	Record to music disc
PROTECTED	Record disc inhibited to record
READING	In mode of reading TOC or UTOC
SRCH ERR**	30 : Search time over in playback, FF or FB 31 : Search time over in REC-PAUSE 32 : Search time over in record
TEMP OVER	High temperature
TITLE FULL	Input over letter of title
UNIT ERROR	Hardware damage
UTOC W ERR	Error of writing to UTOC
WRITING	In writing to UTOC

Adjustment of tuner

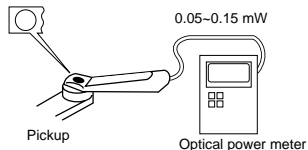
No.	ITEM	INPUT SETTING	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
1	TUNED LEVEL	(A) 98 MHz, 31.2dBf (ANT INPUT) 1kHz, ±40 kHz DEV	—	MONO 98.0 MHz	VR101	Adjust VR1 and stop at the point where ED1 (TUNED) goes ON.	

Adjustment of CD player

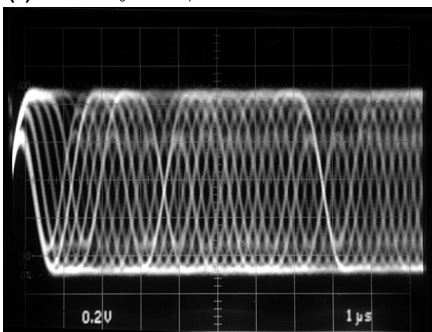
No.	ITEM	INPUT SETTING	OUTPUT SETTING	PLAYER SETTING	ALIGNMENT POINT	ALIGN FOR	FIG.
TEST MODE : While pressing the [CD PLAY] key, plug the AC power cord into the AC outlet.							
1	LASER POWER	—	Set the sensor section of the optical power meter on the pickup lens.	Press the "PLAY" key to check that the display is "03".	—	On the power from 0.05 to 0.15mW, when the diffraction grating is correctly aligned with the RF level of 0.8Vp-p or more	(a)
2	FOCUS ERROR BIAS	Test disc Type 4	Connect an oscilloscope as follows. (+side : RF(IC201, 17pin) GND : VREF(test pin)	Press the "PLAY" key. Confirm that the display is "05".	VR201	Optimum eye pattern	(b)

Note:
Type 4disc : SONY YEDS-18 Test Disc or equivalent.
LPF : Around 47kΩ + 390pF or so.

(a) Laser Power



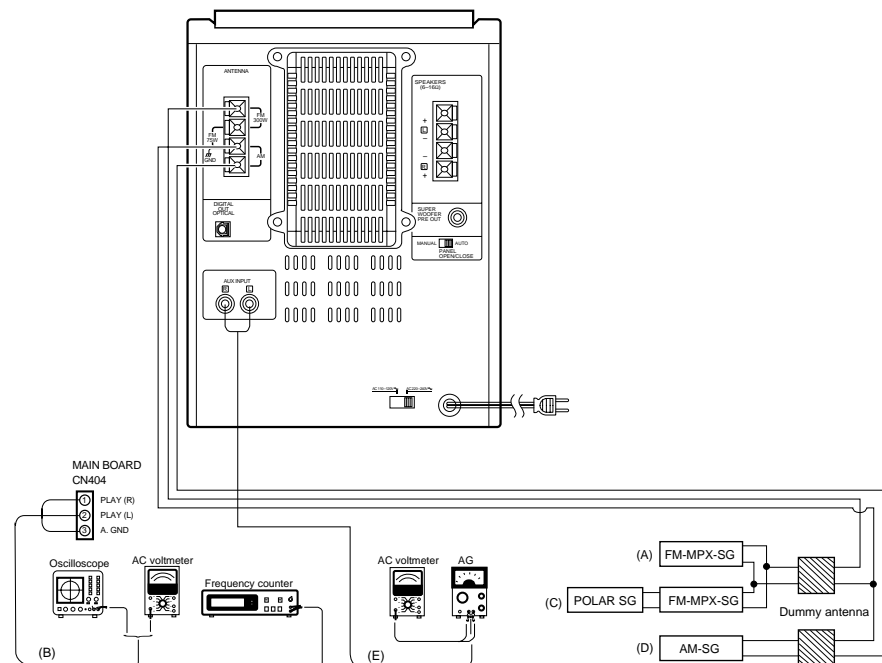
(b) RF signal : AC coupled



- RF signal in test mode (PLAY).
- Perform the tangential and focusing offset are focused into one point on the display. The crossing points above and below the center shall also be looked clearly.

Adjustment of cassette deck

NO.	ITEM	INPUT SETTING	OUTPUT SETTING	CASSETTE TAPE DECK SETTING	ALIGNMENT POINTS	ALIGN FOR	FIG.
Unless otherwise specified, set the respective switches as follows: TAPE : NORMAL DOLBY : OFF I Cassette mechanism unit (Adjustment of the REC / PLAY head)							0dBs = 0.775V
(1)	Demagnetization and cleaning	—	—	Power : OFF Demagnetization, cleaning, PLAY	Recording head, erase head, capstan pinch roller	Demagnetize the REC / PLAY head with the head eraser. Clean the REC / PLAY head, erase head, capstan and pinch roller using a cotton swab slightly damped with alcohol.	
(2)	Azimuth of the REC / PLAY head	SCC-1727 TCC-153 MTT-114 10kHz, -10dB	(B)	PLAY		Adjust the output to maximum and adjust the azimuth adjustment screw for the Lissajours waveform pattern of the oscilloscope to become close to a 45° straight line.	
II PC board adjustment.							
(1)	BIAS CURRENT	(E) • Set the AUX input level to +3dB. • Adjust the AG for the output of the deck to become -20dB (400Hz/12.5kHz).	(B)	REC PLAY	VR701(L) VR702(R)	Record 400Hz and 12.5kHz alternately, and adjust the bias current adjustment potentiometer for the playback levels to become the same.	



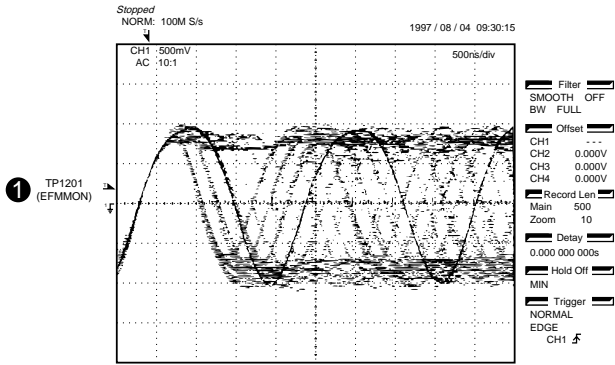
ADJUSTMENT

RXD-M31MD

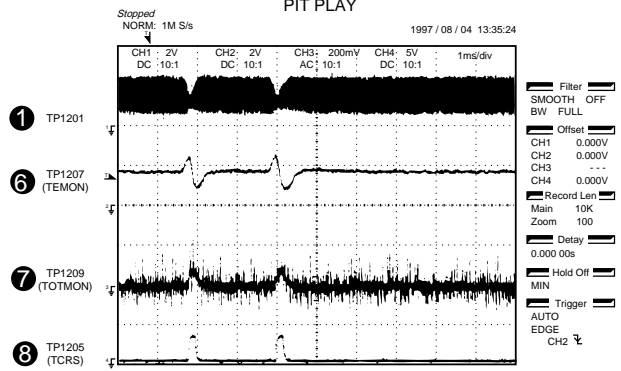
RXD-M31MD

WAVE FORM

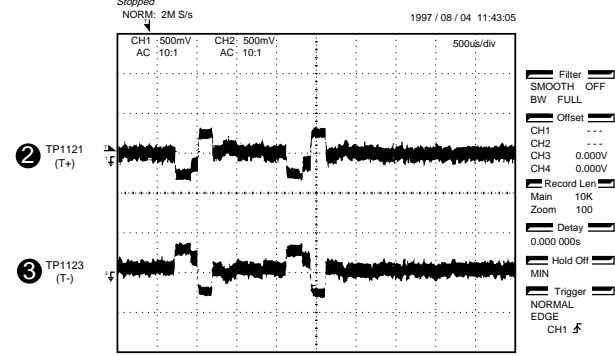
PLAY



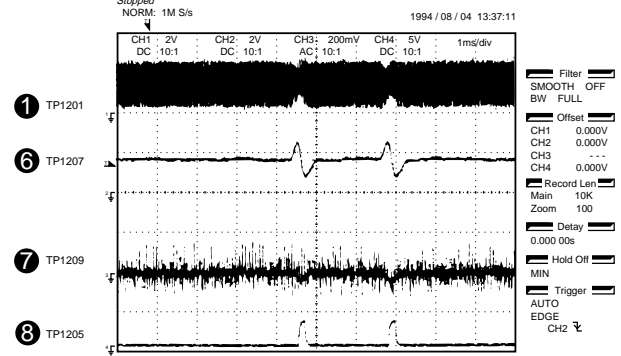
PIT PLAY



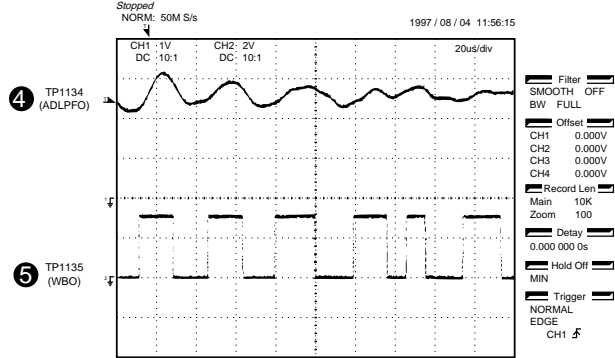
GROOVE PLAY



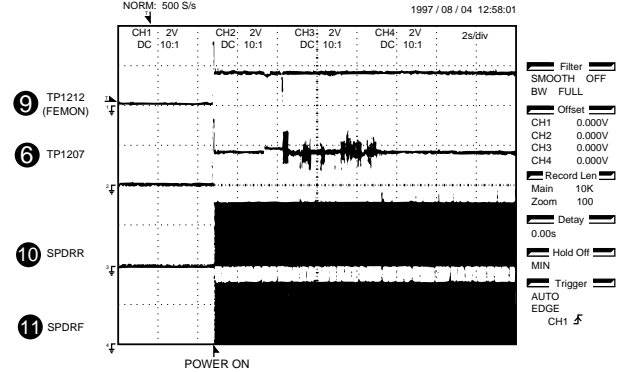
GROOVE PLAY



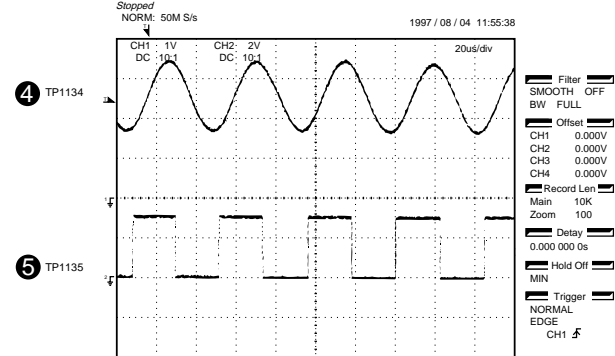
PIT PLAY



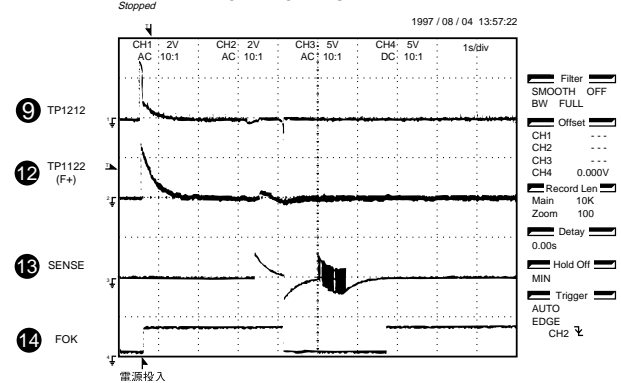
POWER OFF→STANDBY



GROOVE PLAY

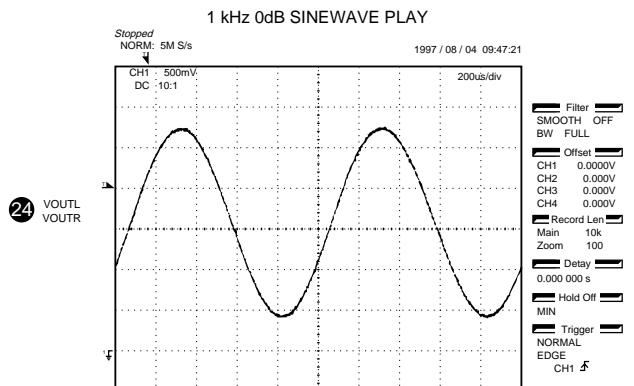
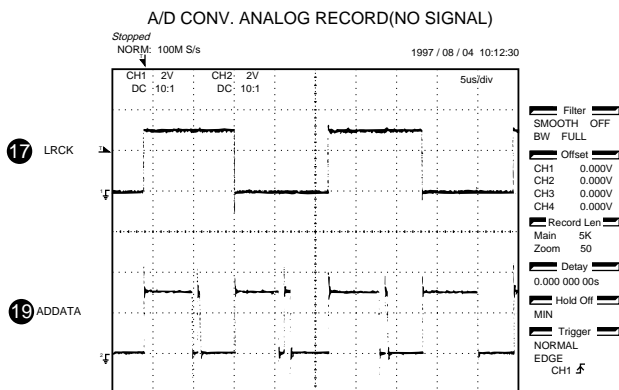
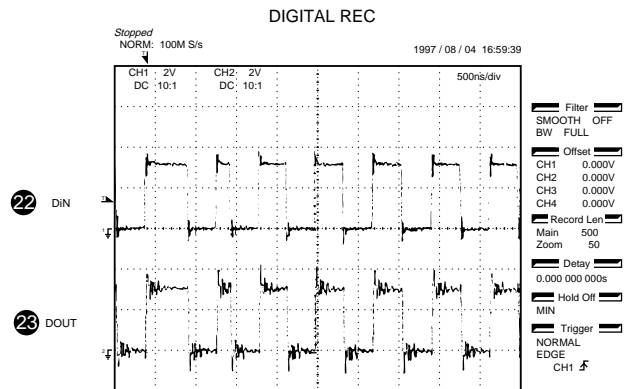
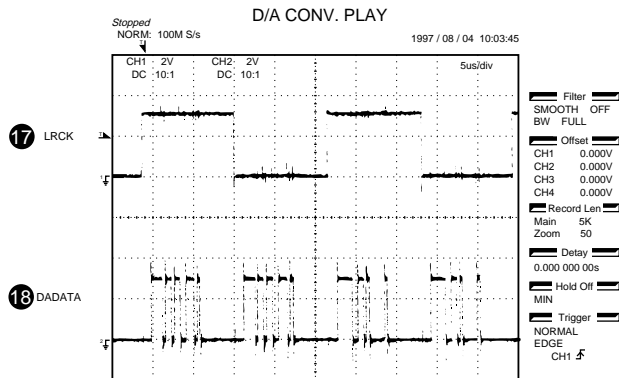
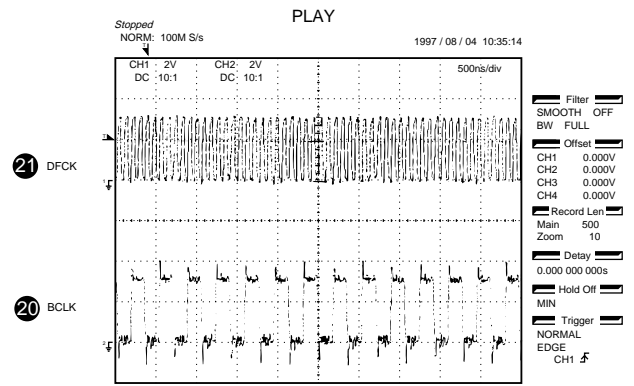
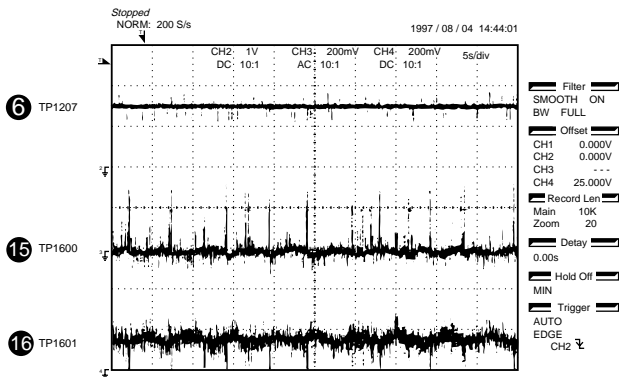
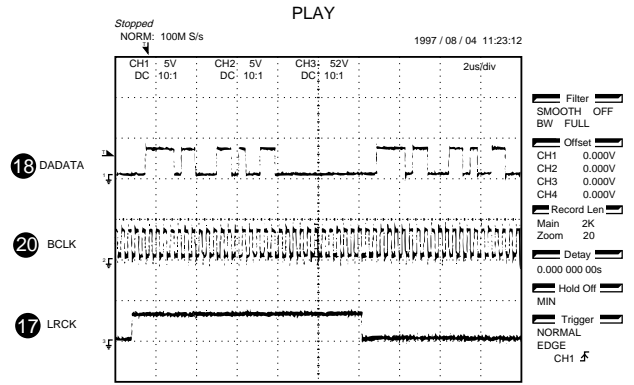
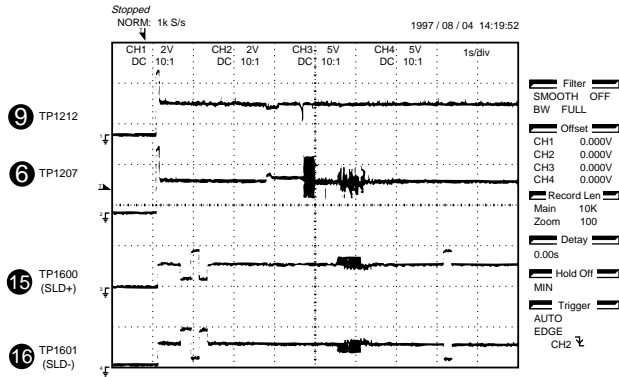


POWER OFF→STANDBY



RXD-M31MD

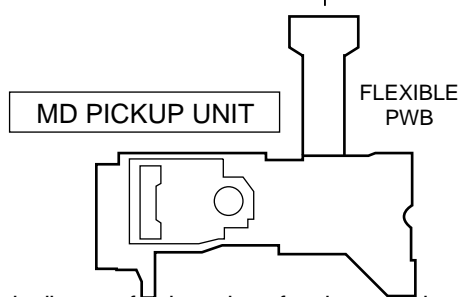
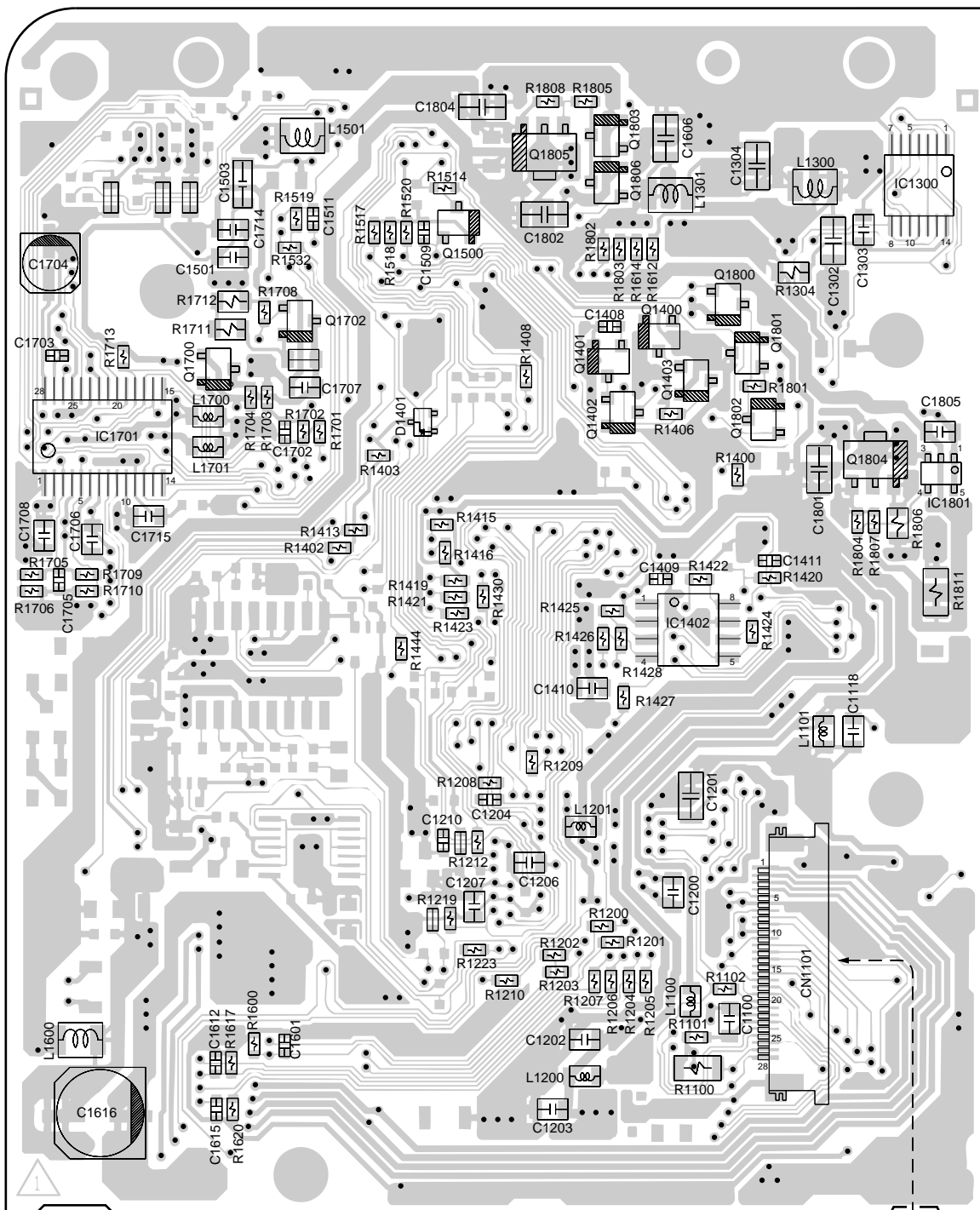
WAVE FORM



PC BOARD (Component side view)

MD MAIN PWB-A (TOP VIEW)

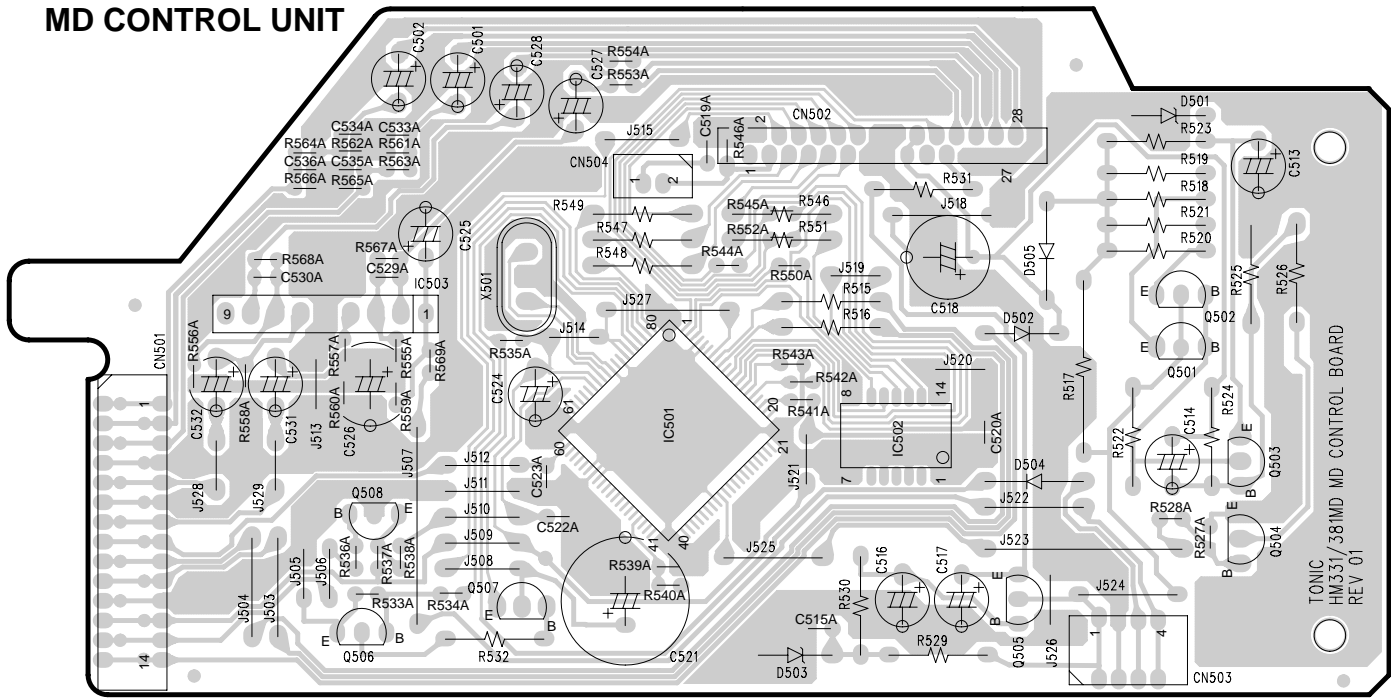
● Through hole.



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

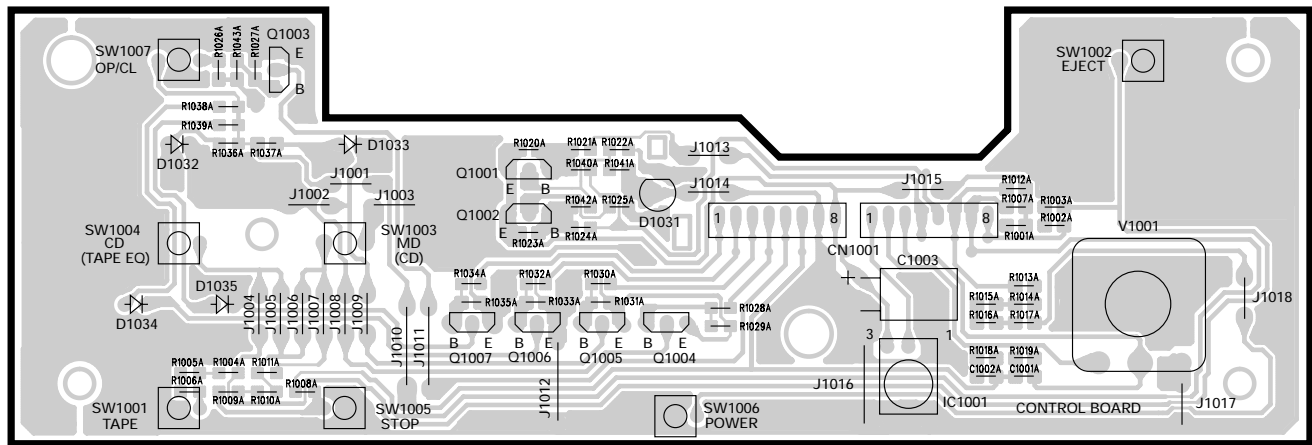
PC BOARD (Component side view)

MD CONTROL UNIT

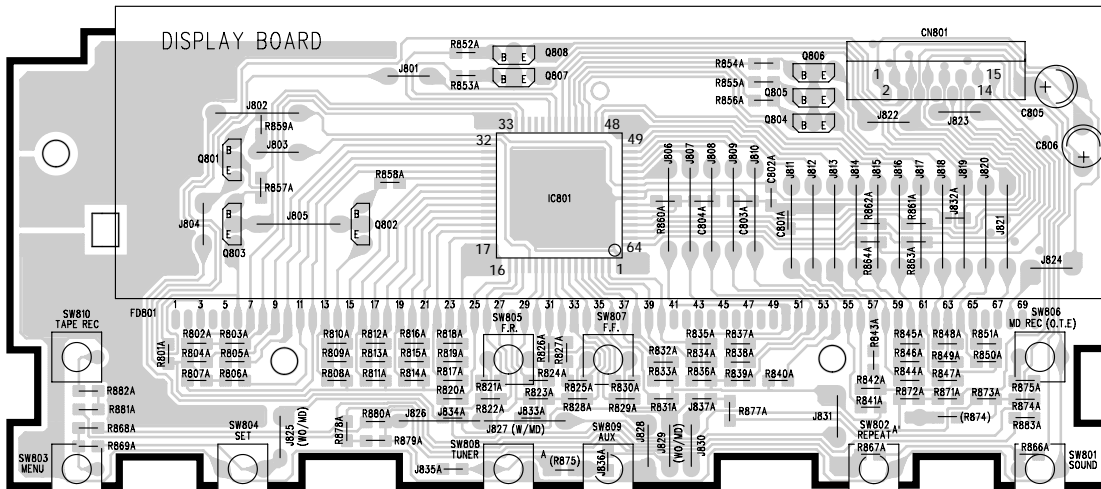


TONIC
HM331/381MD MD CONTROL BOARD
REV 01

KEY CONTROL UNIT

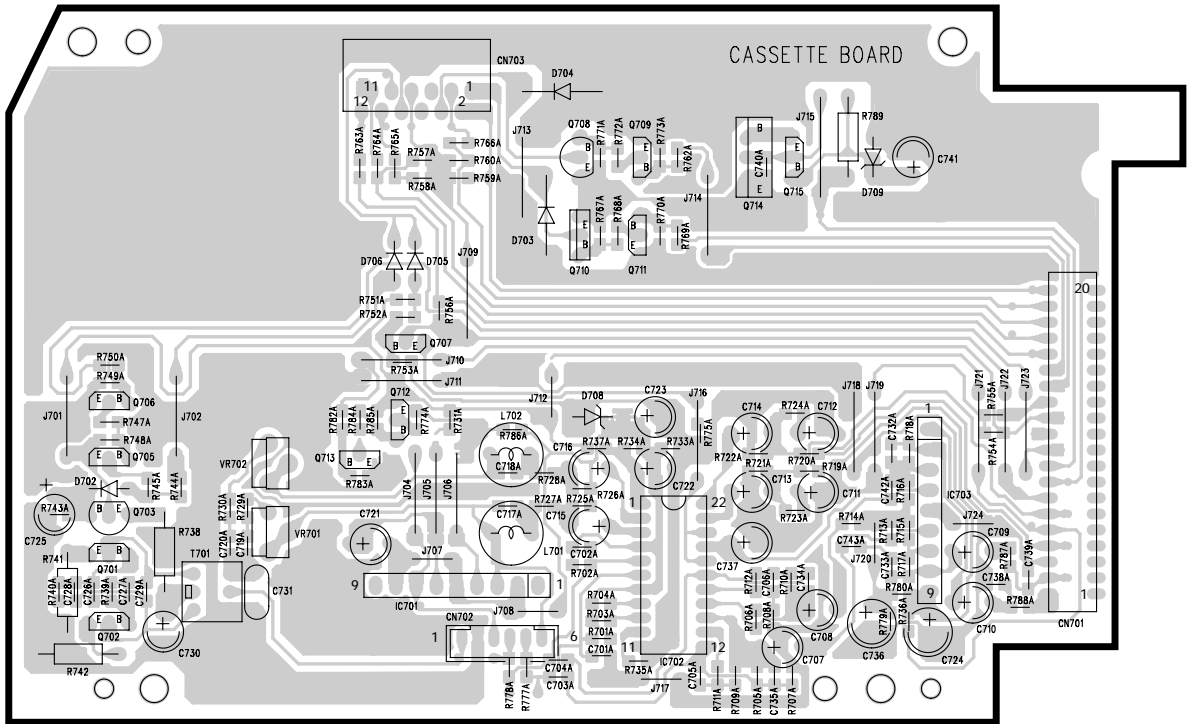


DISPLAY UNIT

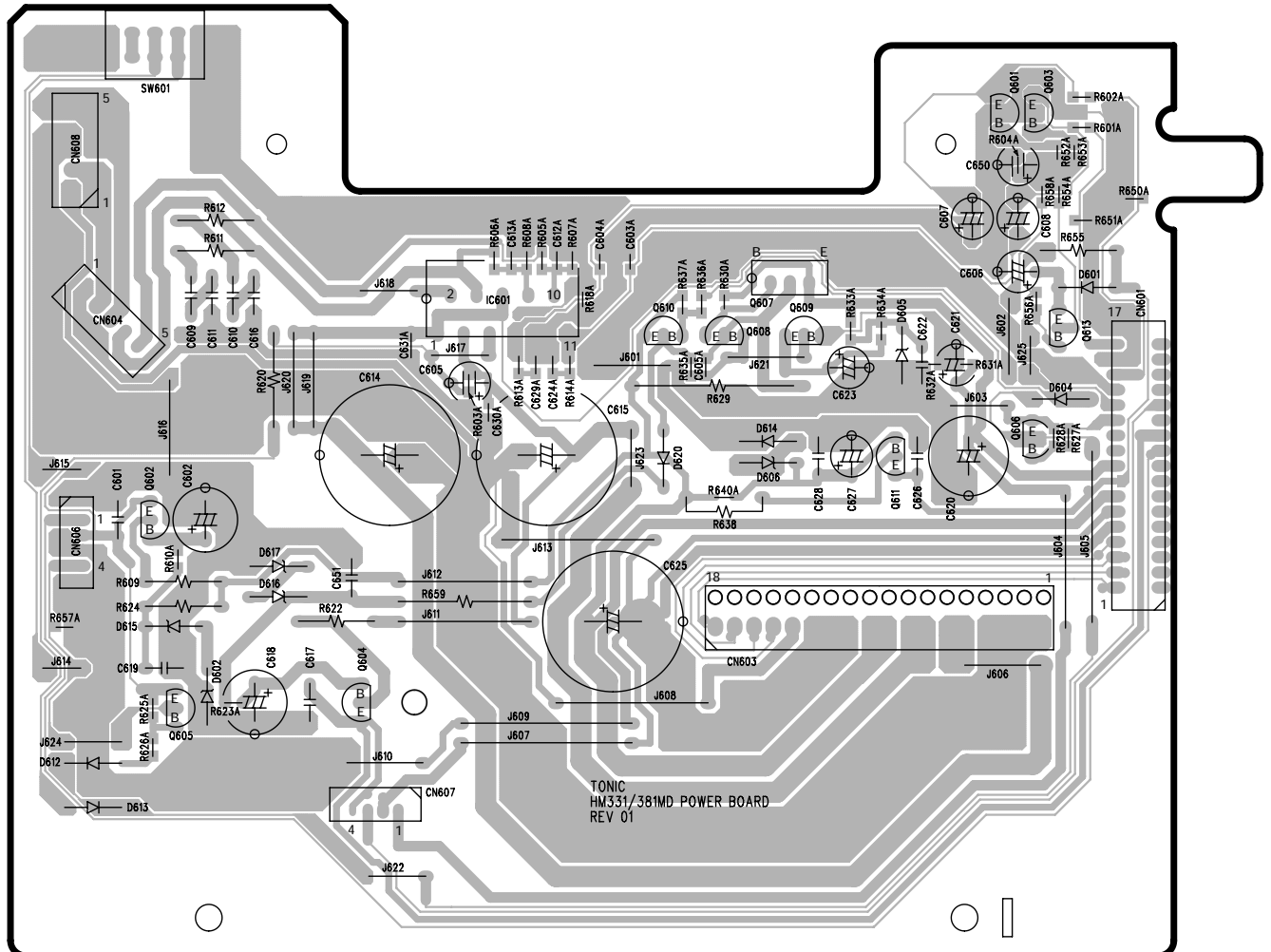


PC BOARD (Component side view)

CASSETTE DECK UNIT



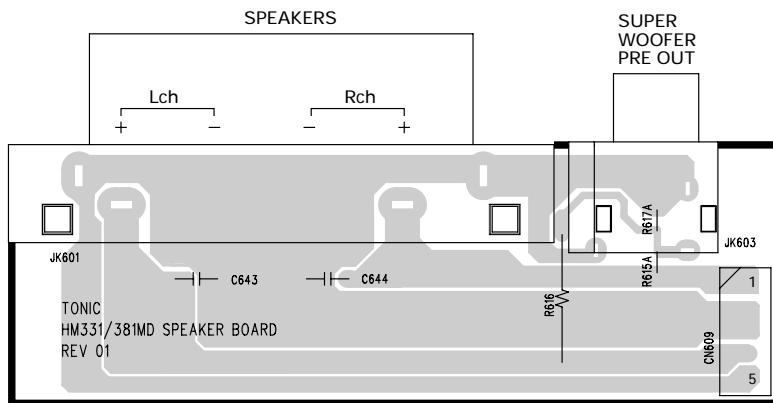
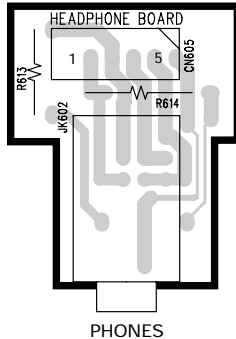
POWER UNIT



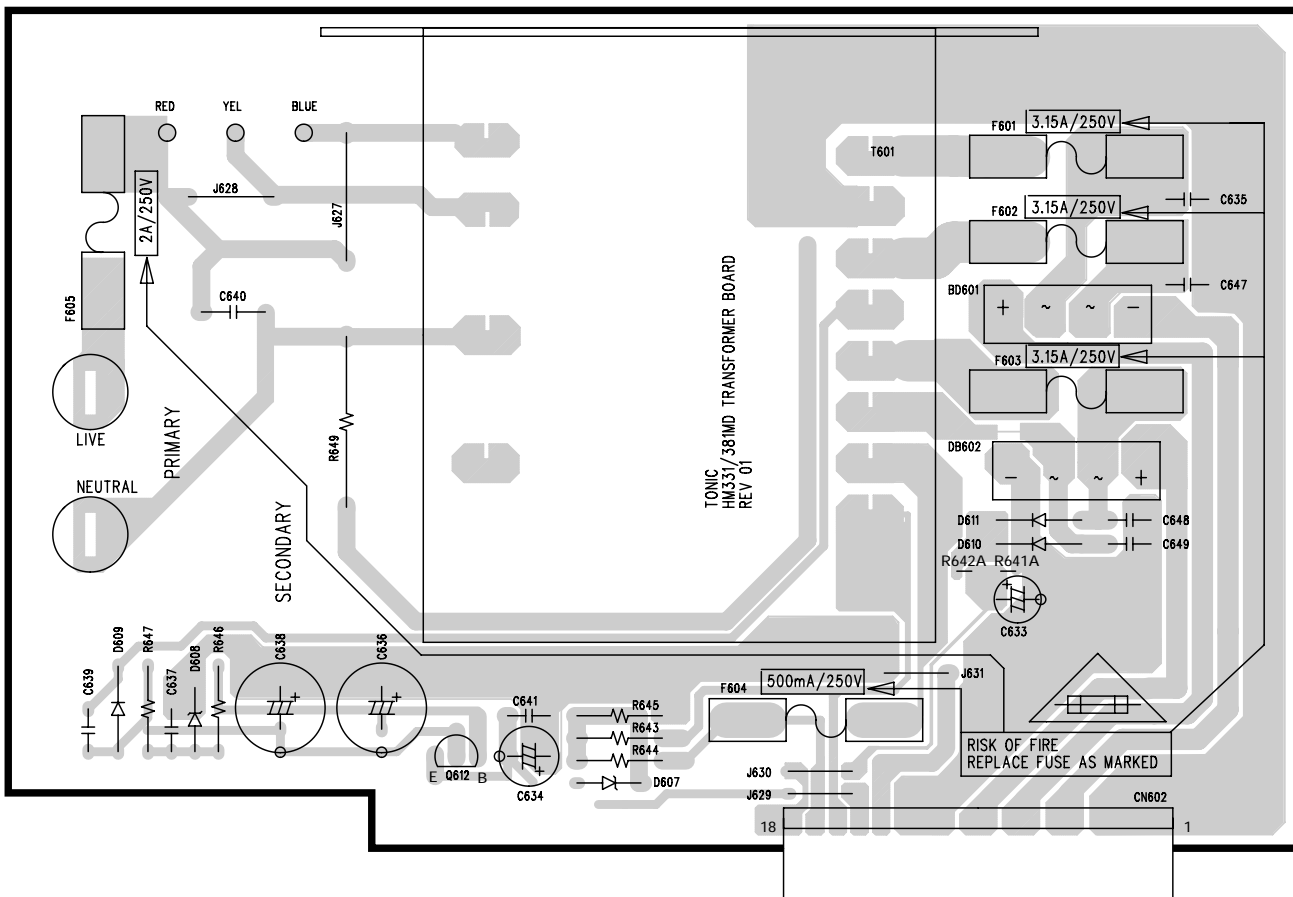
Refer to the schematic diagram for the value of resistors and capacitors.

PC BOARD (Component side view)

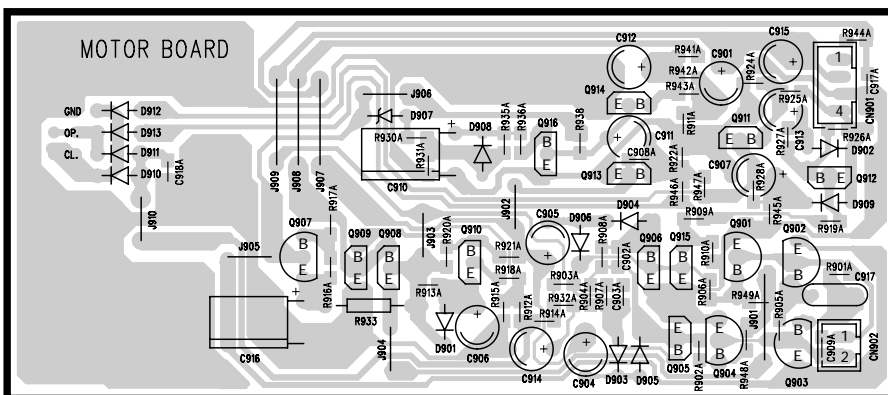
POWER UNIT



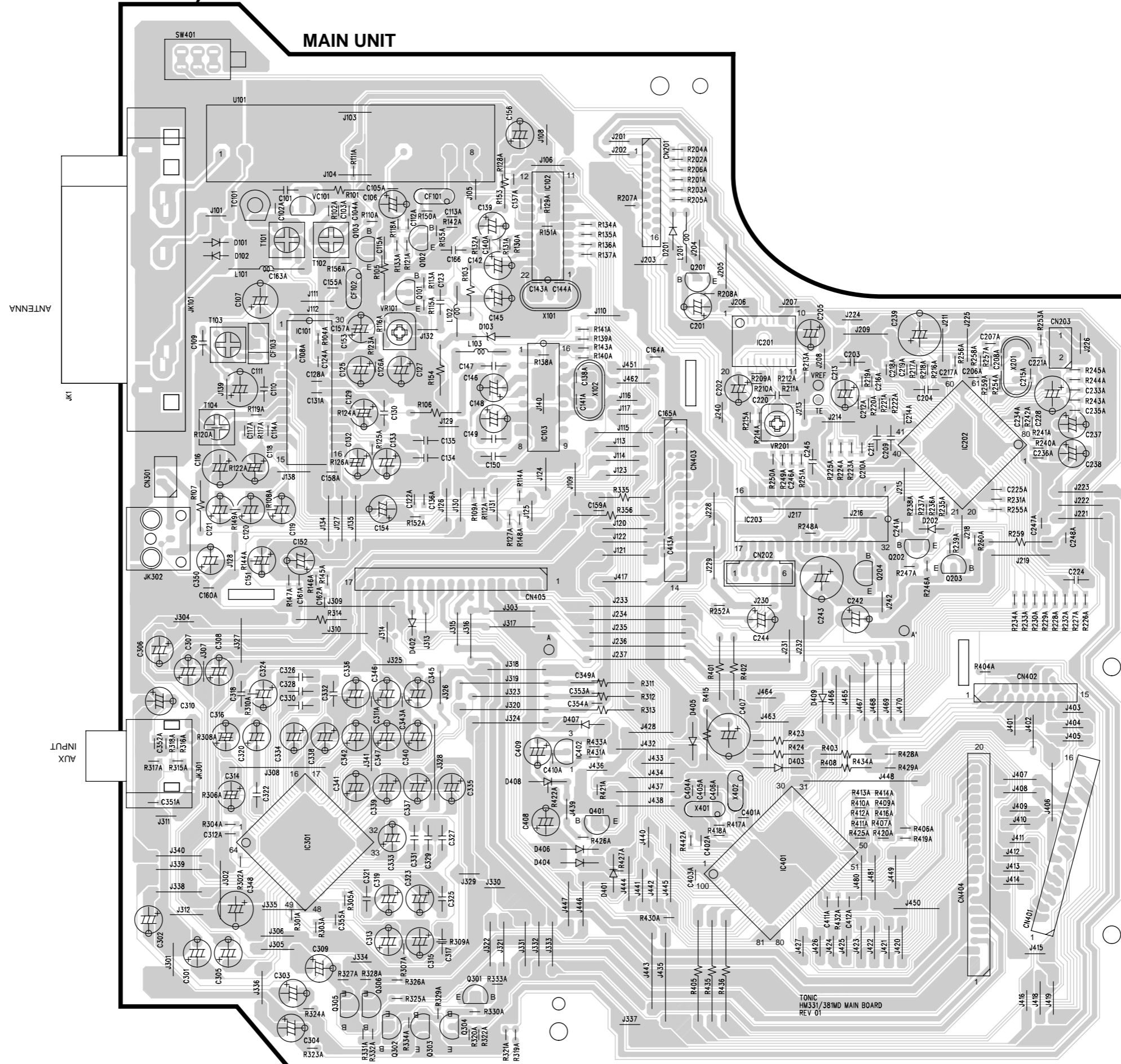
POWER UNIT



MAIN UNIT



PC BOARD(Component side view)

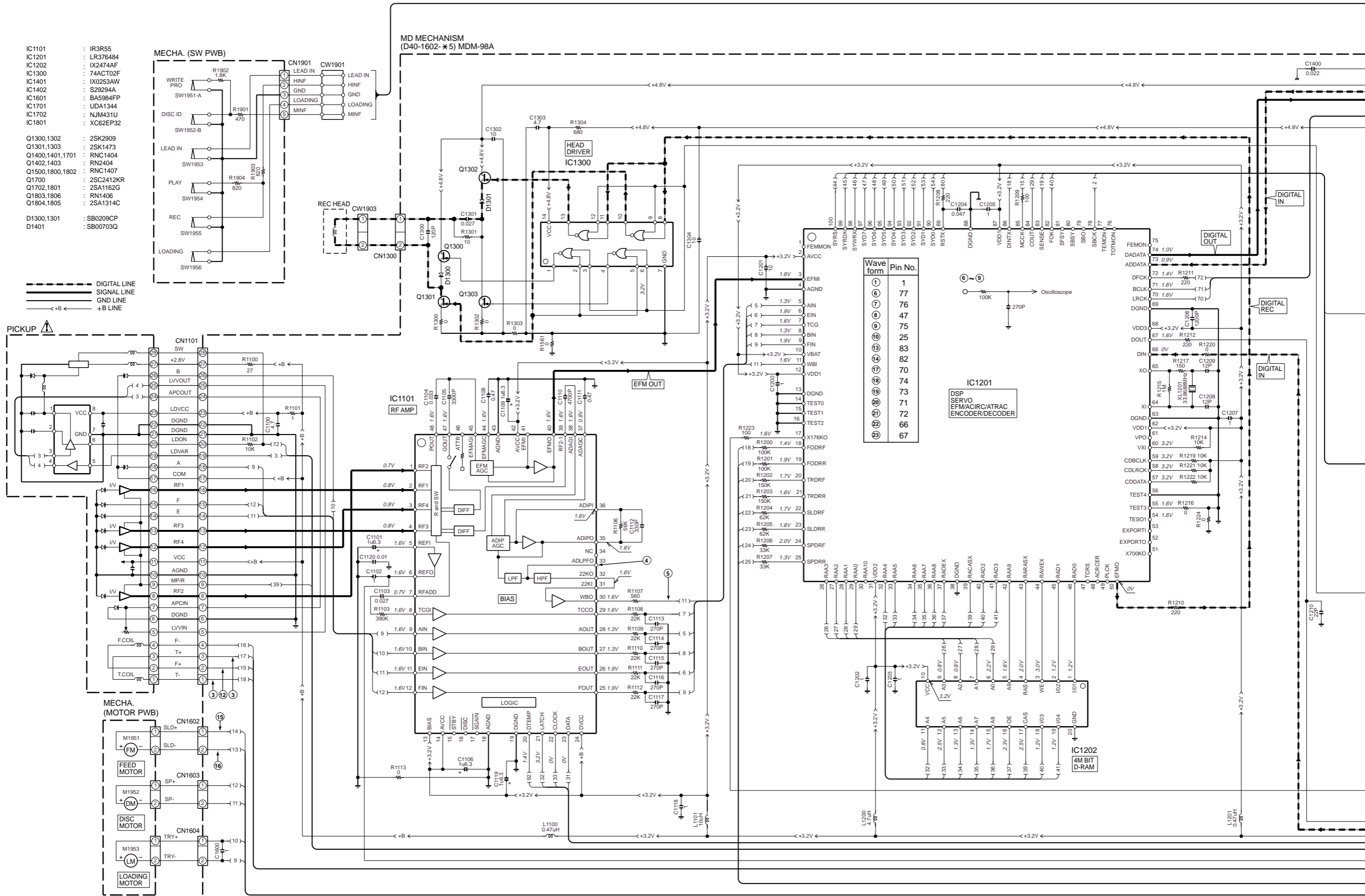
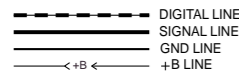


Refer to the schematic diagram for the value of resistors and capacitors.

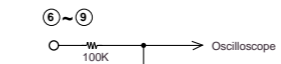
- IC1101 : IR3R55
- IC1201 : LR376484
- IC1202 : IX2474AF
- IC1300 : 74ACT02F
- IC1401 : IX0253AW
- IC1402 : S28294A
- IC1601 : BA5984FP
- IC1701 : UDA1344
- IC1702 : NJM431U
- IC1801 : XC62EP32

- Q1300,1302 : 2SK2909
- Q1301,1303 : 2SK1473
- Q1400,1401,1701 : RNC1404
- Q1402,1403 : RN2404
- Q1500,1800,1802 : RNC1407
- Q1700 : 2SC2412KR
- Q1702,1801 : 2SA1162G
- Q1803,1806 : RN1406
- Q1804,1805 : 2SA1314C

- D1300,1301 : SB0209CP
- D1401 : SB00703Q

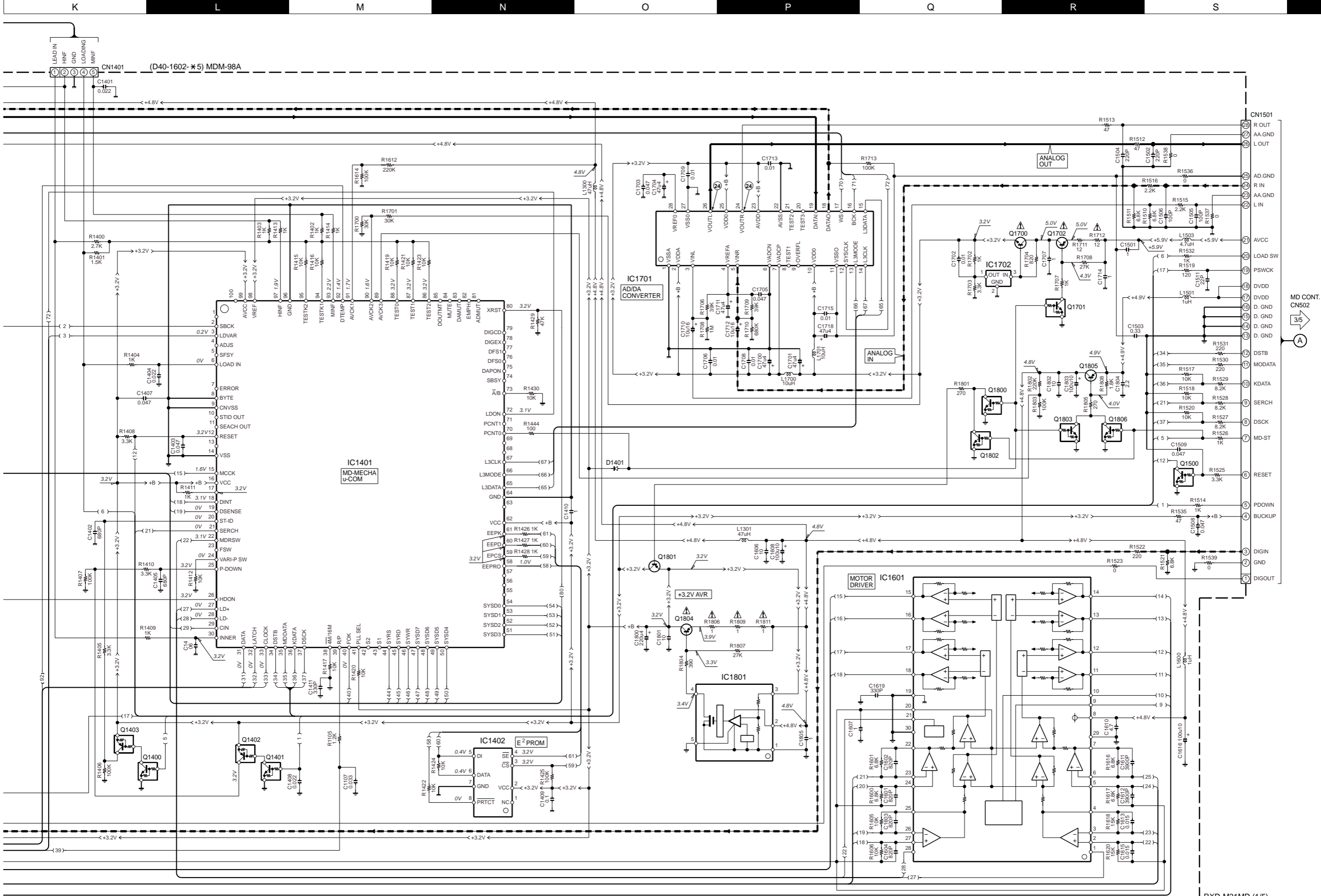


Wave form	Pin No.
①	1
②	77
③	76
④	47
⑤	75
⑥	25
⑦	83
⑧	82
⑨	70
⑩	74
⑪	73
⑫	72
⑬	66
⑭	67



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.

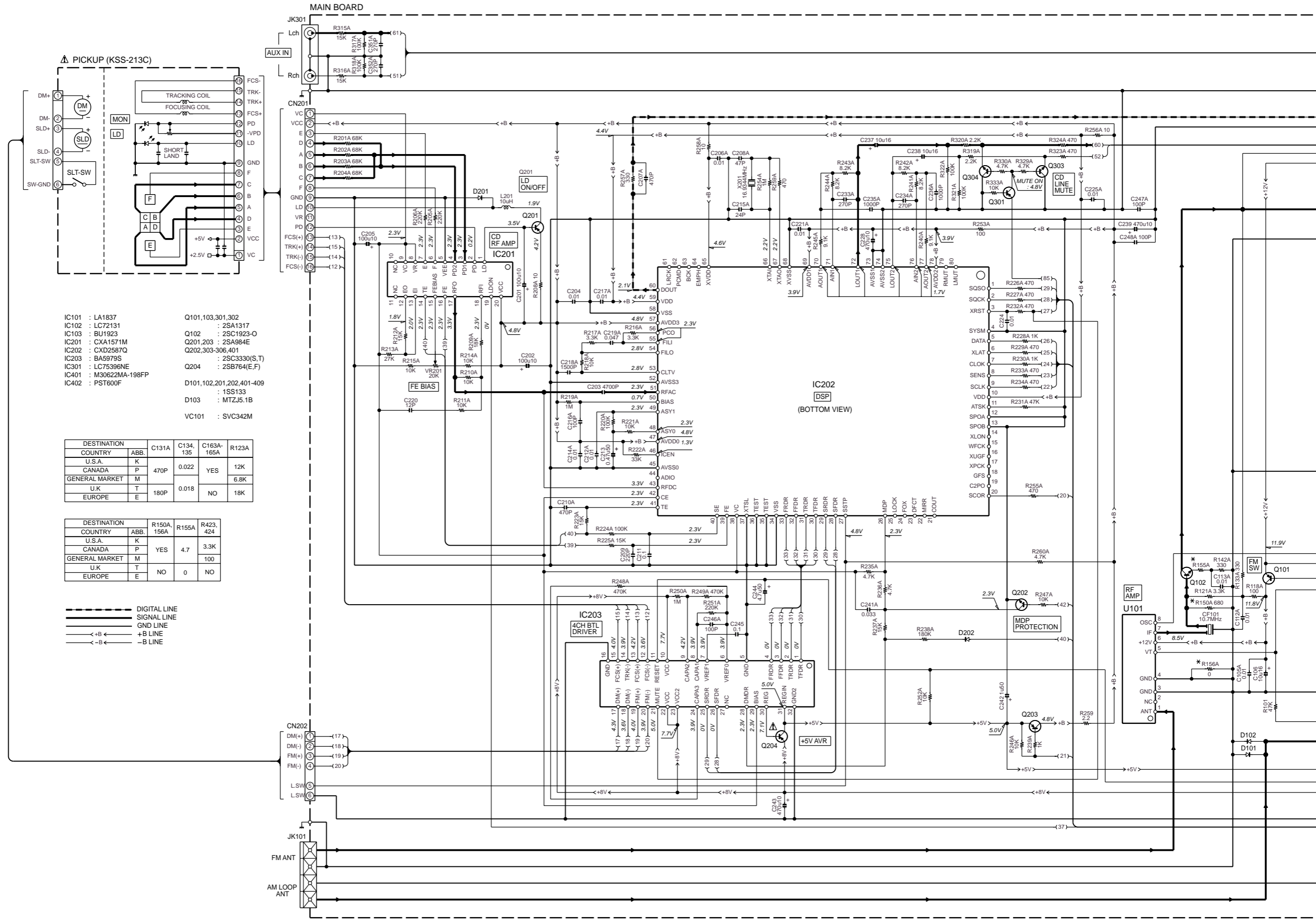
The DC voltage is an actual reading measured with a high impedance type voltmeter. The measurement value may vary depending on the measuring instruments used or on the product. Refer to the voltage during RECORDABLE MD PLAY unless otherwise specified; The value shown in () is the voltage measured at the moment of STOP. The voltage followed by (REC) refers to the value during MD RECORDING.



RXD-M31MD

Y39-3212-70

KENWOOD

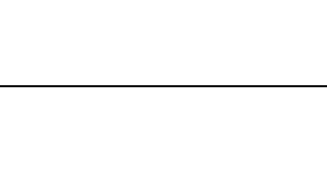


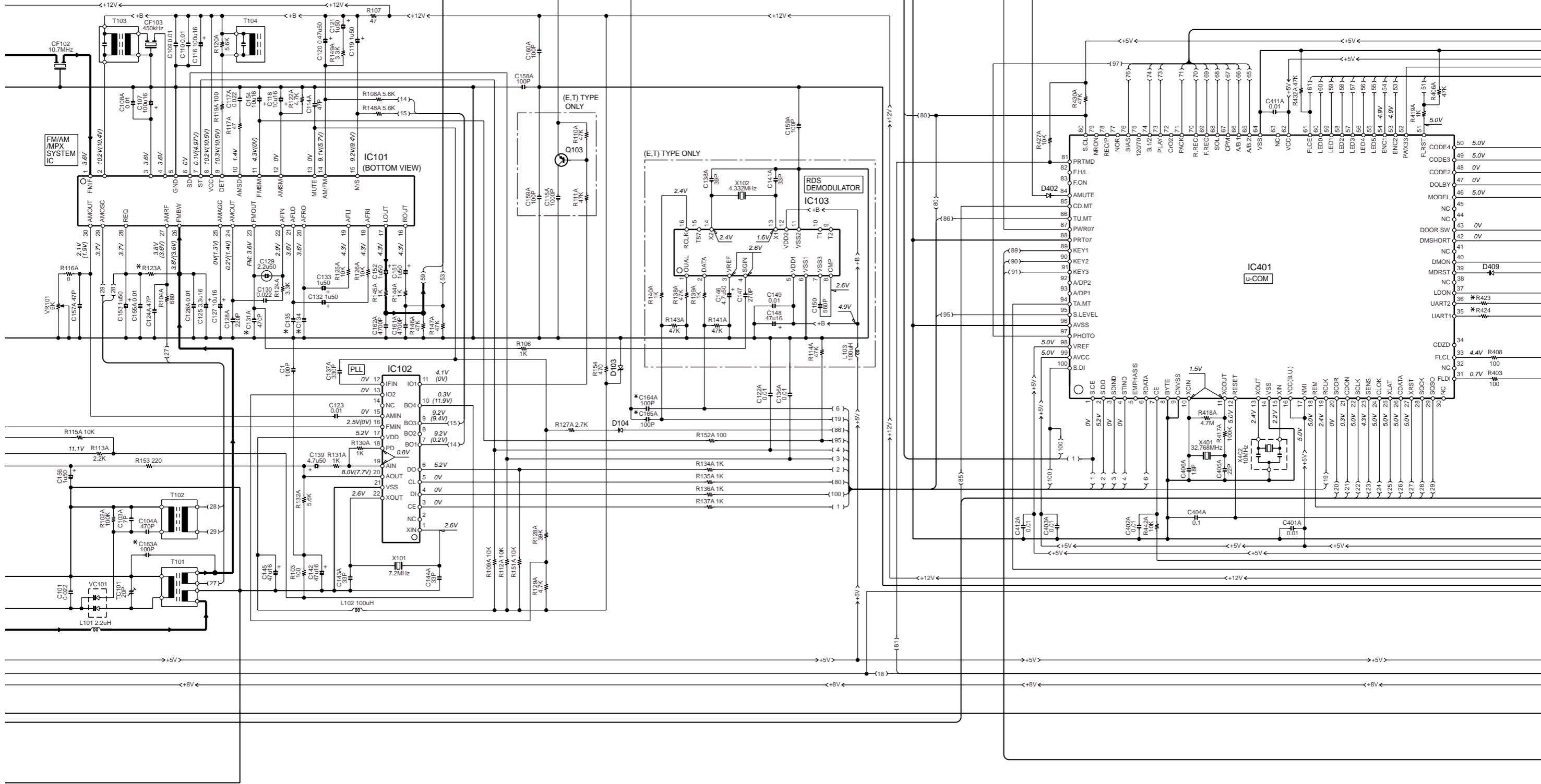
- IC101 : LA1837
 - IC102 : LC72131
 - IC103 : BU1923
 - IC201 : CXA1571M
 - IC202 : CXD2587Q
 - IC203 : BA5979S
 - IC301 : LC75396NE
 - IC401 : M30622MA-198FP
 - IC402 : PST600F
- Q101,103,301,302 : 2SA1317
 - Q102 : 2SC1923-O
 - Q201,203 : 2SA984E
 - Q202,303-306,401 : 2SC3330(S,T)
 - Q204 : 2SB764(E,F)
 - D101,102,201,202,401-409 : 1SS133
 - D103 : MTZJ5.1B
 - VC101 : SVC342M

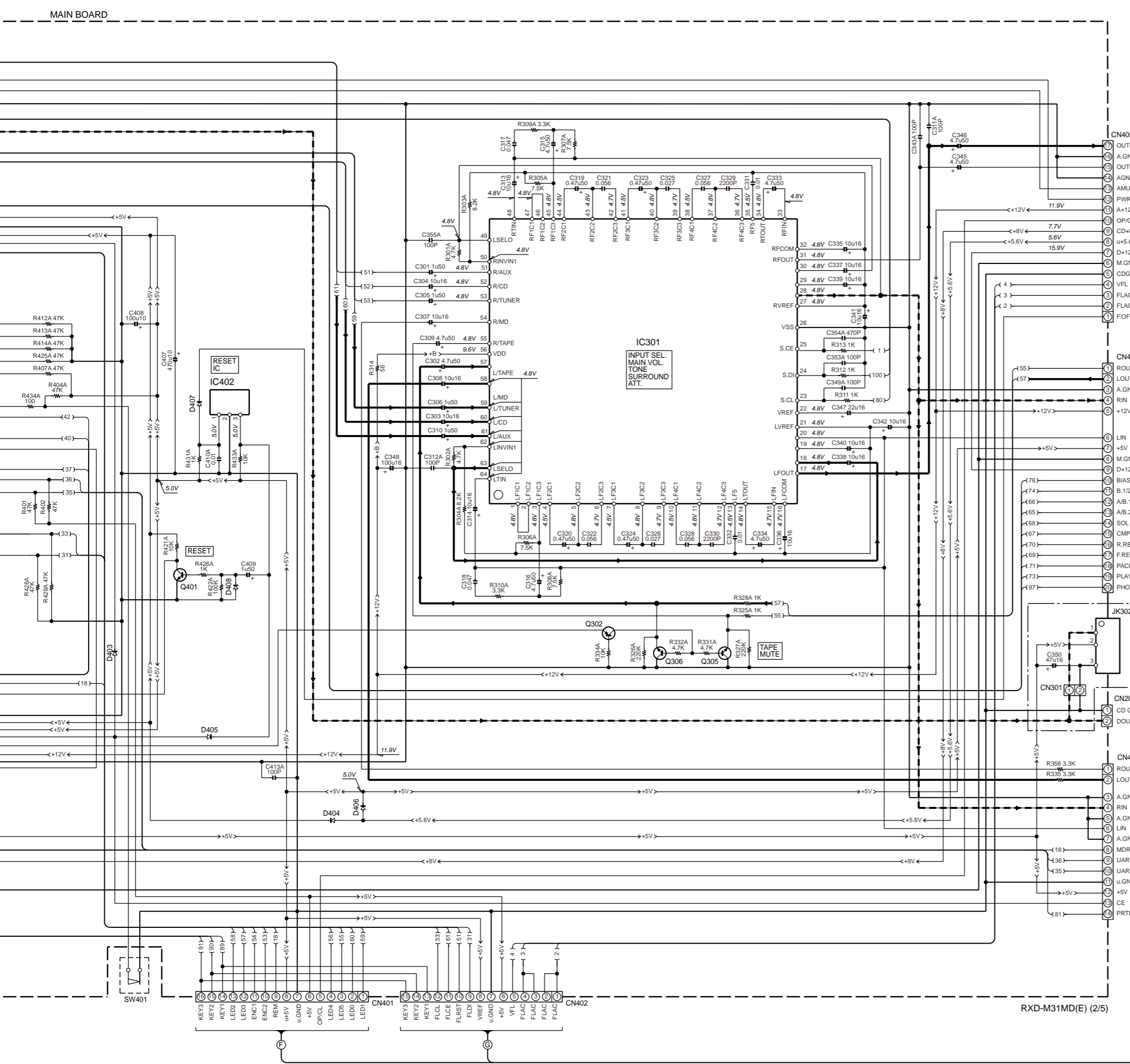
DESTINATION	COUNTRY	ABB.	C131A	C134, 135	C163A-165A	R123A
U.S.A.	K					
CANADA	P	470P	0.022	YES		12K
GENERAL MARKET	M					6.8K
U.K.	T	180P	0.018	NO		18K
EUROPE	E					

DESTINATION	COUNTRY	ABB.	R150A, 156A	R155A	R423, 424
U.S.A.	K				
CANADA	P	YES	4.7	3.3K	
GENERAL MARKET	M			100	
U.K.	T	NO	0	NO	
EUROPE	E				

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







RN1406
RN2404

LA6458S

BA3126N

TC74HCT7007AF

CXA1571M

LC75710NE

CXD2587Q

LA1837

LC75396NE

BA5979S

LC72131

NJM431U

HA12219NT

2SB764
2SC1923-O

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.

The DC voltage is an actual reading measured with a high impedance type voltmeter as the AM/FM signal generator is specified to the conditions as shown in the list below. The measurement value may vary depending on the measuring instruments used or on the product. The value shown in () is actual reading measured in the AM mode.

MODE	CARRIER	MODULATION		ANT INPUT
		FREQUENCY	DEVIATION	
FM	98MHz	1kHz	STEREO 67.5kHz 7.5kHz(Pilot)	60dB
AM	1000(999)kHz	400Hz	MONO 30% MOD	60dB

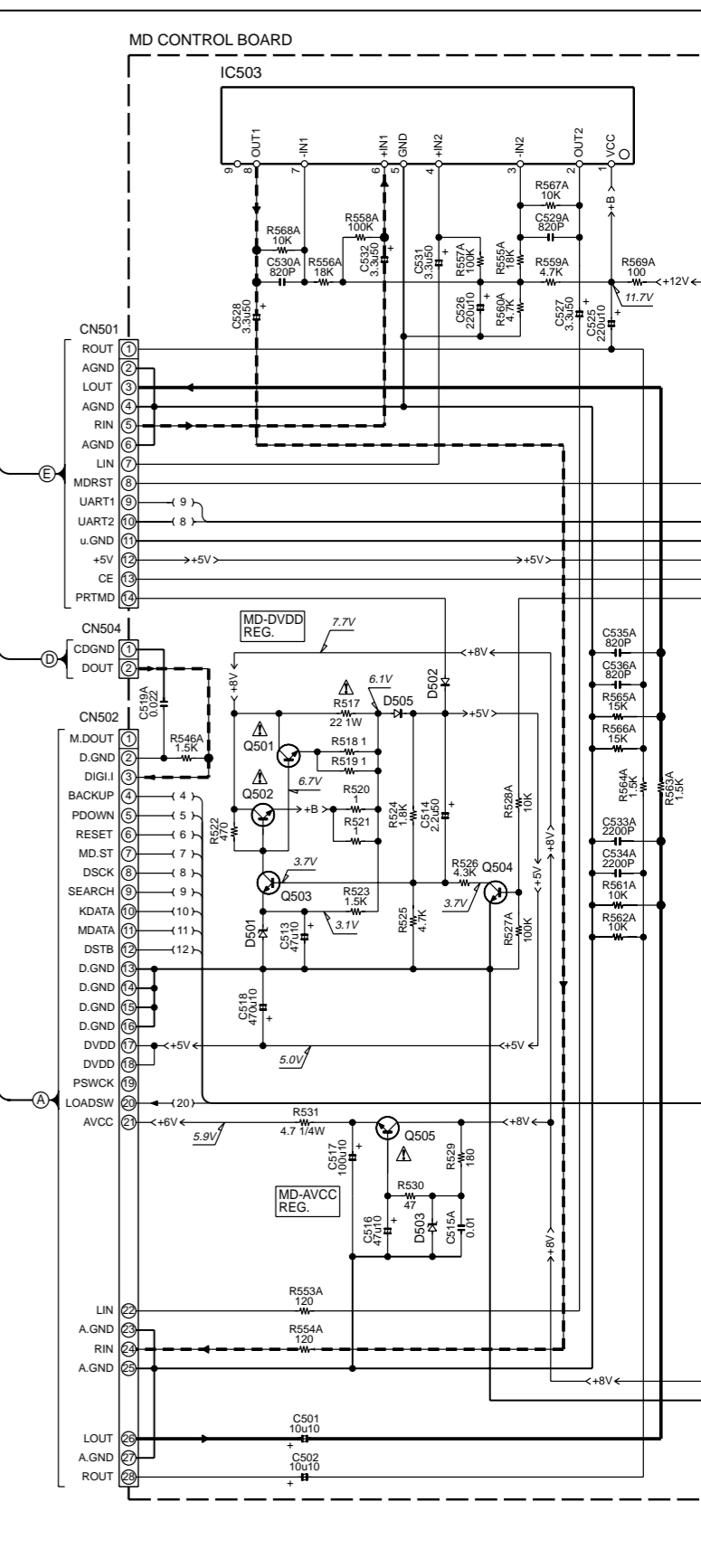
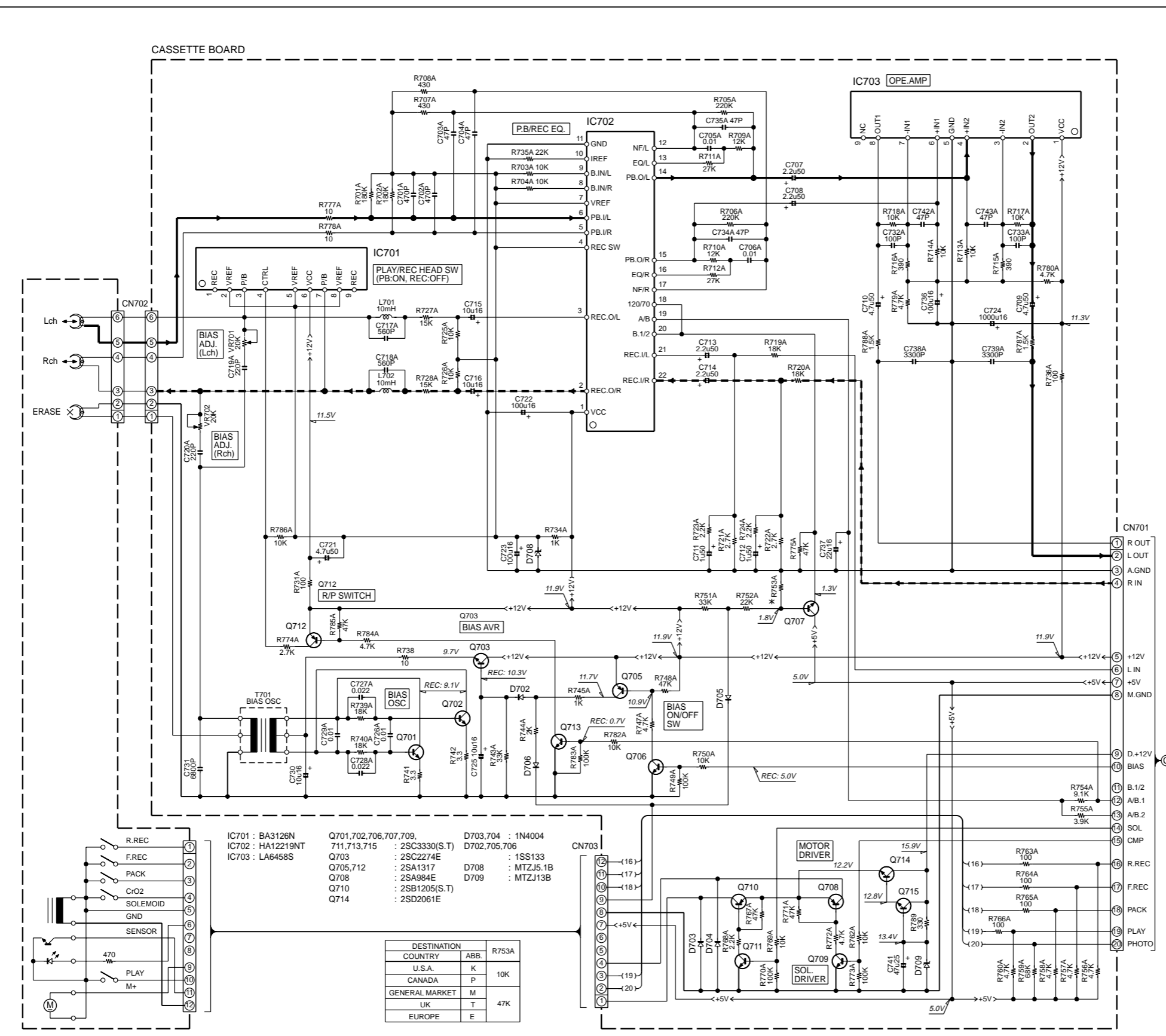
RXD-M31MD

KENWOOD

Y39-3212-70

MDM-98
-CN1501
1/5
A
MAIN BOARD
-CN405
2/5
B
MAIN BOARD
-CN404
2/5
C
MAIN BOARD
-CN203
2/5
D
MAIN BOARD
-CN403
2/5
E

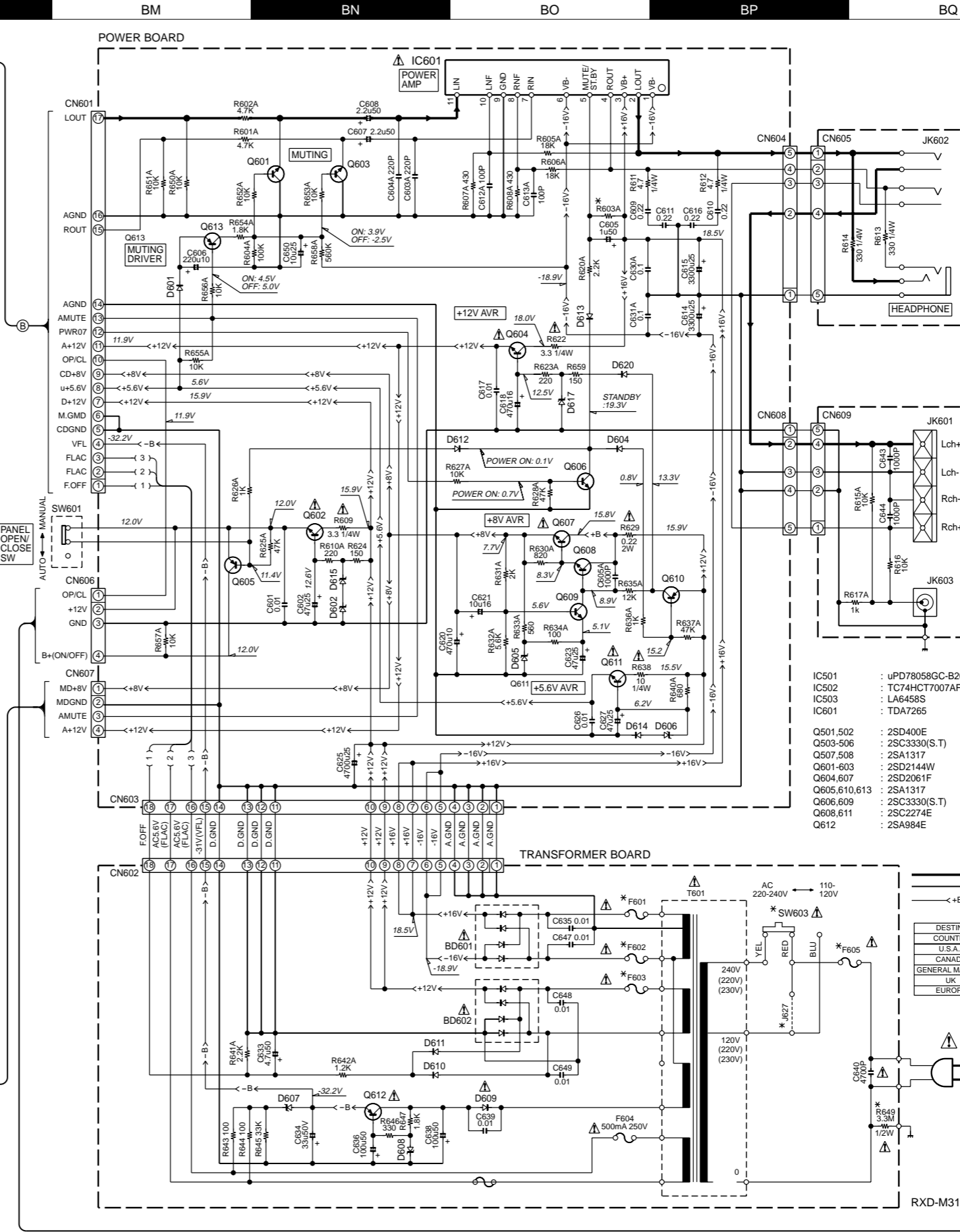
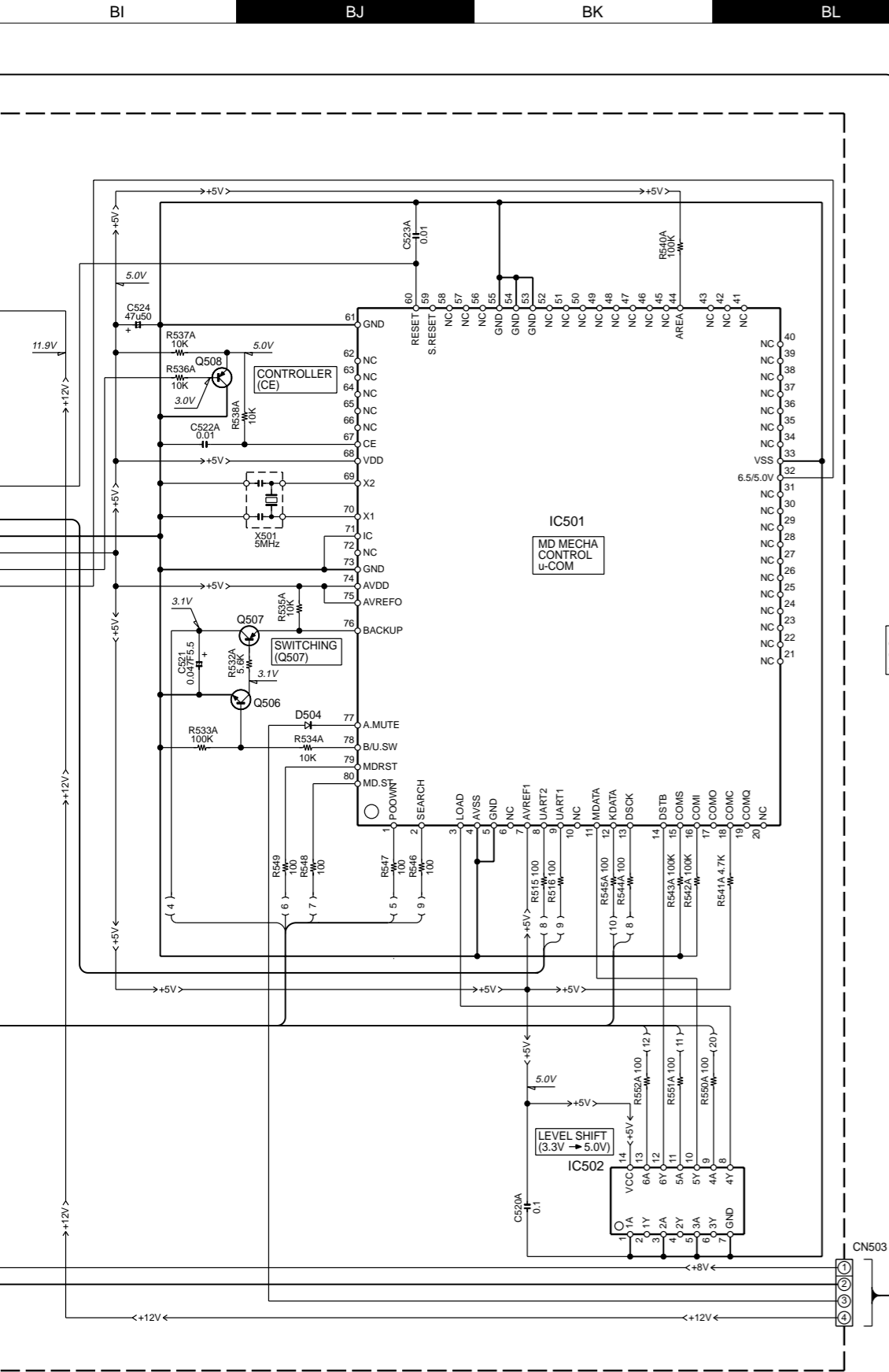
2
3
4
5
6



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 a cassette loaded at playback mode. The measurement value may vary depending on the measuring instruments used or on the product. Bias circuit DC voltage is measured while in the record mode.

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- IC501 : uPD78058GC-B20
- IC502 : TC74HCT7007AF
- IC503 : LA6458S
- IC601 : TDA7265
- D501 : MTZJ3.3B
- D502,504 : 1SS133
- D503,602,617 : MTZJ6.8B
- D505,609 : 1N4004
- D601,604,610-614,620 : 1SS133
- D605 : 2SC3330(S,T)
- D606,615 : MTZJ5.6B
- D607 : MTZJ6.2B
- D608 : MTZJ33B
- BD601,602 : RS402

DESTINATION	COUNTRY	ABB.	SW603	J627	R603A	R649	F601-603	F605
U.S.A.	K		NO	YES	15K	YES	3.15A	2A
CANADA	P		NO	YES	22K	NO	2A	3.15A
GENERAL MARKET	M		YES	NO	22K	NO	3.15A	2A
UK	T		NO	YES	22K	NO	3.15A	2A
EUROPE	E		NO	YES	22K	NO	3.15A	2A

(K,P) : AC120V 60Hz
 (M) : AC110-120V/220-240V-50/60Hz
 (E,T) : AC230V~, 50Hz

RXD-M31MD

KENWOOD

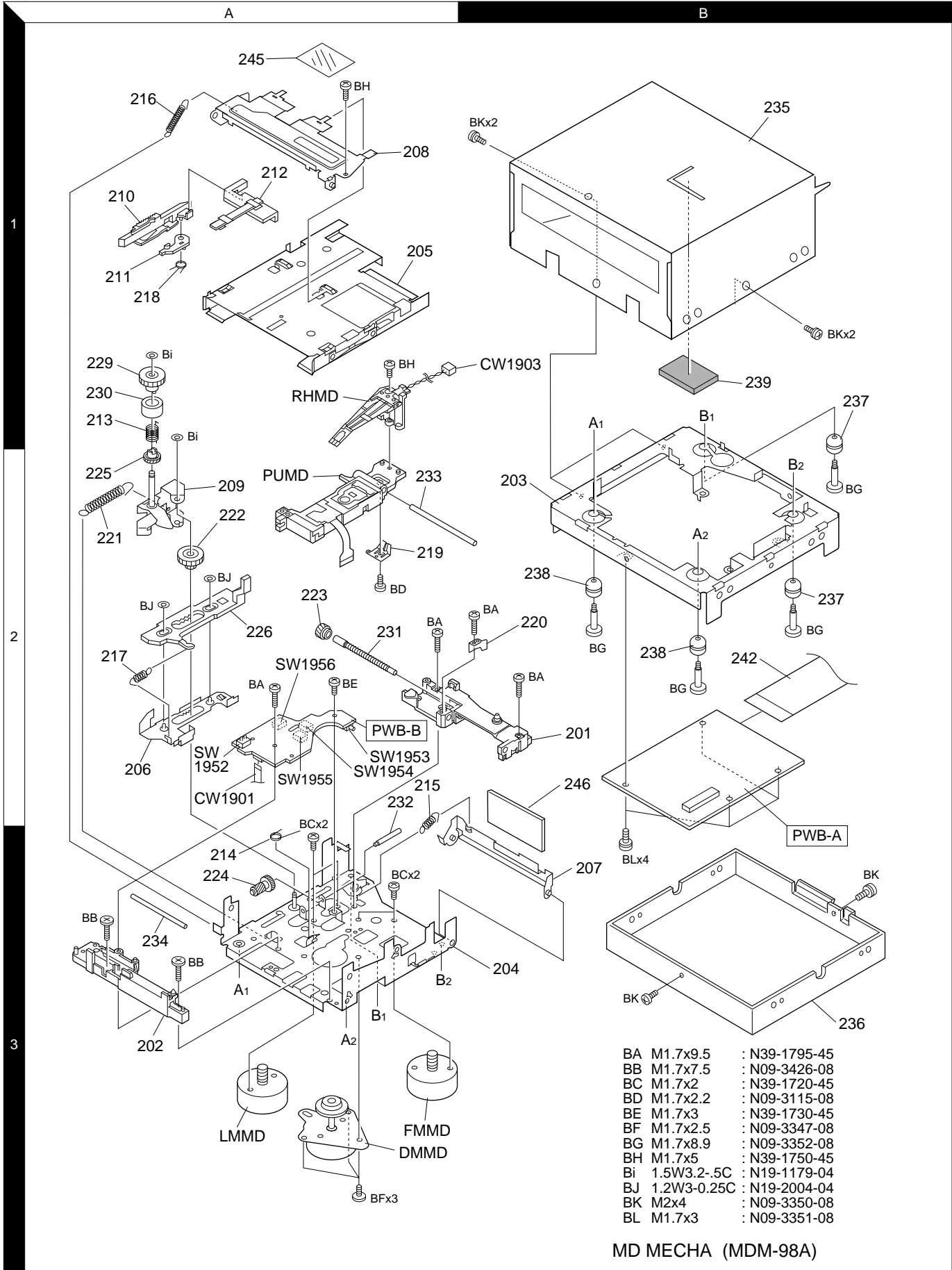
Y39-3212-70



RXD-M31MD (3/5)

RXD-M31MD

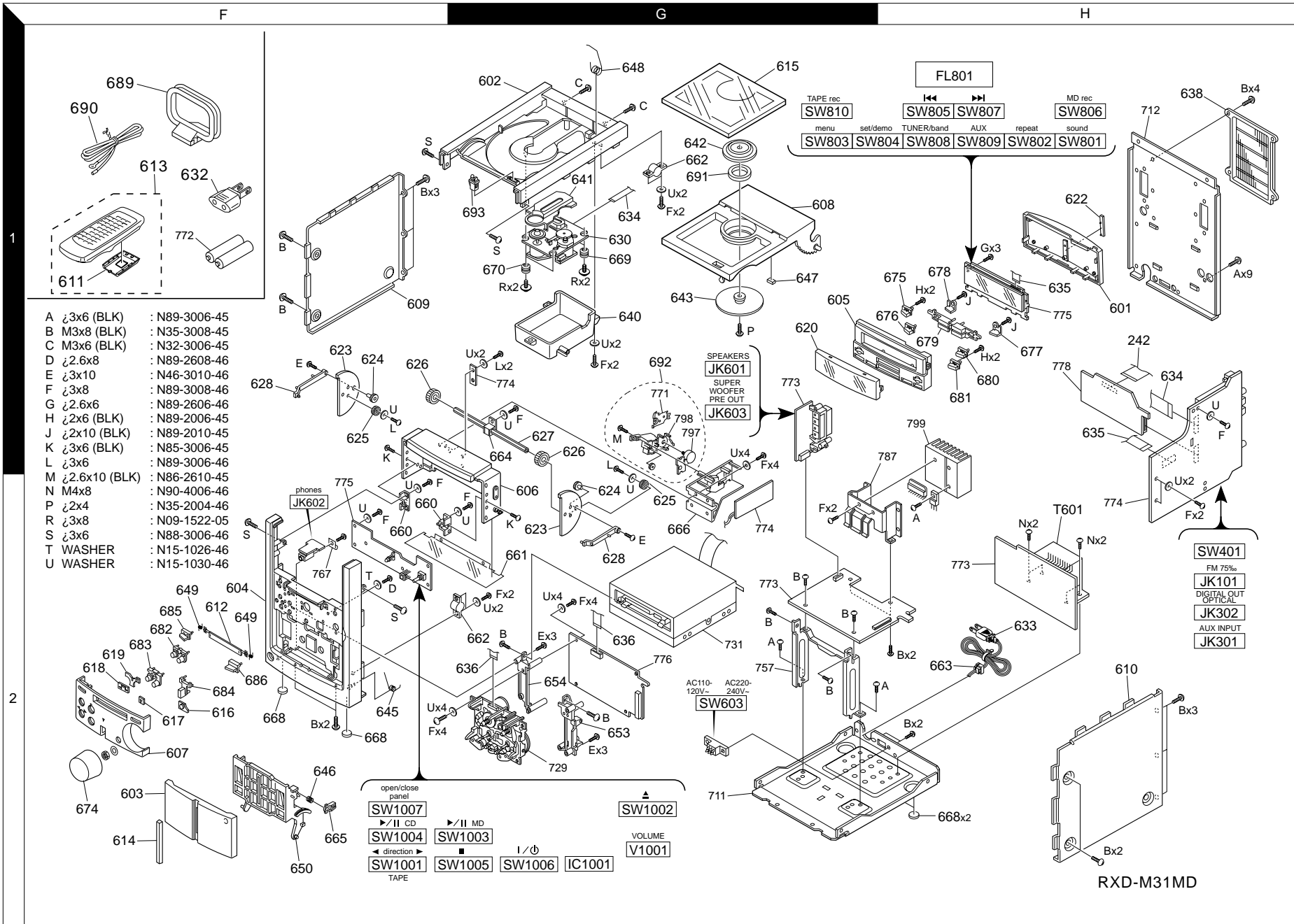
EXPLODED VIEW (MD MECHANISM)



BA	M1.7x9.5	: N39-1795-45
BB	M1.7x7.5	: N09-3426-08
BC	M1.7x2	: N39-1720-45
BD	M1.7x2.2	: N09-3115-08
BE	M1.7x3	: N39-1730-45
BF	M1.7x2.5	: N09-3347-08
BG	M1.7x8.9	: N09-3352-08
BH	M1.7x5	: N39-1750-45
Bi	1.5W3.2-.5C	: N19-1179-04
BJ	1.2W3-0.25C	: N19-2004-04
BK	M2x4	: N09-3350-08
BL	M1.7x3	: N09-3351-08

MD MECHA (MDM-98A)

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



EXPLODED VIEW (UNIT)

RXD-M31MD

* 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-M31MD						
601	1H	*	A21-3800-08	PANEL COVER 109-03311-101		
602	1G	*	A02-2940-08	TOP CABINET 103-03310-0909		
603	2F	*	A02-2945-08	CASS DOOR COVER,108-03311-101		
604	2F	*	A60-1745-08	FRONT CABINET 101-03310-101		
605	1G		A21-3779-08	TUNING PANEL 109-03312-001		
606	2G	*	A21-3801-08	TOP PANEL 109-03313-1266		
607	2F	*	A21-3806-08	CONTROL PANEL 109-03314-2266	KP	
607	2F	*	A21-3807-08	CONTROL PANEL 109-03314-4266	MTE	
608	1G	*	A52-0375-08	CD DOOR 113-03310-072		
609	1F	*	A50-1332-08	METAL PLATE (L) 180-03311-0909		
610	2H	*	A50-1337-08	METAL PLATE (R) 180-03312-0909		
611	1F		A09-1114-08	BATTERY COVER		
612	2F	*	A52-0376-08	MD DOOR 113-03311-001		
613	1F	*	A70-1241-05	REMOTE CONTROL182-03310-001	KPM	
613	1F	*	A70-1287-05	REMOTE CONTROL182-03310-002	TE	
614	2F		B10-3524-08	CASS DOOR LENS 116-03310-000		
615	1G	*	B10-3555-08	CD DOOR LENS 116-03311-002		
616	2F		B12-0375-08	SENSOR LENS 117-03310-000		
617	2F		B12-0376-08	LED LENS (MID) 117-03311-000		
618	2F		B12-0377-08	LED LENS (TAPE) 117-03312-000		
619	2F		B12-0378-08	LED LENS (CD/MD) 117-03313-000		
620	1G	*	B12-0386-08	DISPLAY LENS 117-03314-003		
622	1H	*	B03-3857-08	PLATED BAR 130-03310-087		
623	1F,2G		D13-1946-08	GEAR A 130-03313-110		
624	1F,2G		D13-1947-08	GEAR B 130-03313-210		
625	1F,2G		D13-1948-08	GEAR C 130-03313-310		
626	1F,2G		D13-1949-08	GEAR D 130-03313-410		
627	1G		D10-3905-08	SHAFT (HEXAGON)133-03318-304		
628	1F,2G		D10-3906-08	LEVER 138-03311-010		
630	1G		D40-1640-05	CD MECHANISM KSM-213CDM(SONY)		
Δ 632	1F		E03-0115-05	AC PLUG ADAPTOR	M	
Δ 633	2H		E30-2928-08	AC POWER CORD 023-60020-005	ME	
Δ 633	2H		E30-2929-08	AC POWER CORD 023-60040-008	KP	
Δ 633	2H		E30-2930-08	AC POWER CORD 023-60060-003	T	
634	1G,1H		E35-2429-08	FLAT CABLE (16P)037-45281-164		
635	1H		E35-2430-08	FLAT CABLE (15P) 037-55271-155		
636	2G		E35-2431-08	FLAT CABLE (12P) 037-55600-125		
638	1H		F07-1685-18	HS COVER (BLK) 129-03319-610		
640	1G		F07-1687-08	CD COVER 138-03313-010		
641	1G		F07-1688-08	CD COVER(BLK)ABS,161-00213-202		
642	1G		J19-6023-08	CD MAGNET COVER(TOP) 161-00213-		
643	1G		J11-0850-08	CD MAGNET COVER(BTM) 161-00213-		
645	2F		G09-0671-08	CASS DOOR SPR 133-03314-309		
646	2F		G09-0672-08	DOOR LOCKER SPR,133-03319-335		
647	1G		G11-2485-08	RUBBER (10X5X3) 136-10530-100		
648	1G		G09-0674-08	CD DOOR SPRING 162-03311-314		
649	2F	*	G09-0675-08	MD DOOR SPRING 133-03319-302		
650	2F		A13-3147-08	BRACKET (CASS DOOR) 129-03310-0		
653	2G		A13-3150-08	BRACKET (CASS R) 129-03317-010		
654	2G		A13-3151-08	BRACKET (CASS L) 129-03317-110		
660	2F		A13-3152-08	MOUNTING BRACKET, 129-03319-510		
661	2G		F07-1686-18	PVC COVER (BLACK), 125-03310-010		

L : Scandinavia K : USA P : Canada R : Mexico C : China I : Malaysia
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2

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
662	1G,2G	*	D39-0345-08	DAMPER SET 130-03313-010		
663	2H		J42-0343-08	POWER CORD BUSH 130-00000-001	KP	
Δ 663	2H		J42-0344-08	POWER CORD BUSH 130-00000-002	MTE	
664	1G		D32-0363-08	STOPPER 130-03312-010		
665	2F		D32-0364-08	CASSETTE LOCKER 130-03318-010		
666	2G		A13-3153-08	MOUNTING BRT(PCB/CD) 133-30331-		
668	2F,2H		J02-1456-08	RUBBER FOOT (12.5X3.5) 136-8003		
669	1G		J02-1454-08	SOFT RUBBER 161-07213-001		
670	1G		J02-1455-08	HARD RUBBER 161-07213-101		
674	2F	*	K29-7690-08	KNOB (VOLUME) 127-03311-072		
675	1H	*	K29-7691-08	KNOB (TAPE REC) 128-03310-002		
676	1H	*	K29-7692-08	KNOB (MENU) 128-03310-021		
677	1H	*	K29-7693-08	KNOB (REPEAT) 128-03310-102		
678	1H	*	K29-7694-08	KNOB (SET/DEMO) 128-03310-202		
679	1H	*	K29-7695-08	KNOB (FF/TUNER/AUX) 128-03310-3		
680	1H	*	K29-7696-08	KNOB (MD REC) 128-03310-402		
681	1H	*	K29-7697-08	KNOB (SOUND) 128-03310-421		
682	2F	*	K29-7698-08	KNOB (MD/CD PLAY) 128-03312-002		
683	2F	*	K29-7699-08	KNOB (TAPE/STOP) 128-03312-102		
684	2F	*	K29-7700-08	KNOB (ON/STANDBY) 128-03312-272		
685	2F	*	K29-7701-08	KNOB (PANEL BUTTON) 128-03312-3		
686	2F	*	K29-7702-08	KNOB (EJECT) 128-03312-401		
689	1F		T90-0846-08	AM LOOP ANTENNA, 015-82100-001		
690	1F		T90-0801-05	LEAD ANTENNA 064-10001-003		
691	1G		T99-0624-08	CD MAGNET 161-00090-030		
692	1G		T42-0953-08	GEAR MOTOR 158-03310-001		
693	1G		D32-0365-08	CD LOCKER PLASTIC, 130-10618-40		
-			A13-3149-08	BRACKET (FL) 129-03315-010		
-			B46-0310-03	WARRANTY CARD 155-13813-0266	TE	
-			B46-0328-03	WARRANTY CARD 155-04711-0266	K	
-			B46-0347-03	WARRANTY CARD 155-11811-2266	P	
-		*	B58-1643-04	CAUTION CARD (CASS) 155-13310-1		
-			B59-1434-08	CAUTION (PANEL) 155-13310-002	TE	
-			B59-1435-08	CAUTION (PANEL) 155-13310-002	KPM	
-		*	B60-4129-08	INST BOOKLET 151-13812-0266	MT	
-		*	B60-4218-08	INST MANUAL 152-13811-0266	KP	
-		*	B60-4220-08	INST BOOKLET 152-13813-0266	PE	
-		*	B60-4221-08	INST MANUAL 152-13814-0266	M	
-		*	B60-4222-08	INST MANUAL 152-13815-0266	E	
-		*	B60-4223-08	INST MANUAL 152-13816-0266	E	
-		*	B60-4224-08	INST MANUAL 152-13817-0266	ME	
-		*	B60-4225-08	INST MANUAL 152-13818-0266		
-			H10-7611-08	POLYFOAM FIXTURE, 149-03310-000		
-			H25-1658-08	POLYBAG 18X24 150-18024-510		
-		*	H50-3323-08	ITEM CARTON CASE 151-13811-1266	KP	
-		*	H50-3324-08	ITEM CARTON CASE 151-13812-1266	M	
-		*	H50-3325-08	ITEM CARTON CASE 151-13814-1266	T	
-		*	H50-3326-08	ITEM CARTON CASE 151-13815-1266	E	
A			N89-3006-45	SCREW 3X6 BLK BIND TAPTITE		
B			N35-3008-45	SCREW 3X8 BLK BIND MACHIN		
C			N32-3006-45	SCREW 3X6 BLK FLAT MACHIN		
D			N89-2608-46	SCREW 2.6X8 BIND TAPTITE		
E			N46-3010-46	SCREW 3X10 PAN TAPPING		
F			N89-3008-46	SCREW 3X8 BIND TAPTITE		
H			N89-2006-45	SCREW 2X6 BLK BIND TAPTITE		

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③

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
J			N89-2008-45	SCREW 2X8 BLK BIND TAPTITE		
K			N85-3006-45	SCREW 3X8 BLK FLAT TAPTITE(S)		
L			N89-3006-46	SCREW 3X6 BIND TAPTITE		
N			N90-4008-41	SCREW 4X8 TP MACHIN		
P			N35-2004-46	SCREW 2X4 BIND MACHIN		
R			N09-1522-05	SCREW 3X8 10mmTP TAPPING		
S			N88-3006-46	SCREW 3X6 FLAT TAPTITE		
T			N15-1026-46	FLAT WASHER 2.9X7.5X0.5		
△ T601	2H		L07-2771-08	POWER TRANSFORMER0 18-03817-572	ET	
△ T601	2H		L07-2772-08	POWER TRANSFORMER0 18-03817-522	KP	
△ T601	2H		L07-2773-08	POWER TRANSFORMER0 18-03817-562	M	
U			N15-1030-46	FLAT WASHER 3.3X8.0X0.5		

ELECTRICS PARTS

D1031			B30-2558-08	LED LAMP	019-10000-001	
D1032-35			B30-2500-08	LED	019-12000-110	
C1			CC45FSL1H101J	CERAMIC	100PF	J
C101			CK45FB1H223Z	CERAMIC	0.022UF	Z
C103A			CC73FSL1H070D	CHIP C	7.0PF	D
C104A			CK73FB1H471K	CHIP C	470PF	K
C105A			CK73FB1E103K	CHIP C	0.010UF	K
C106			CE04KW1C100M	ELECTRO	10UF	16WV
C107			CE04KW1C101M	ELECTRO	100UF	16WV
C108A			CK73FB1E103K	CHIP C	0.010UF	K
C109,110			CK45FB1H103Z	CERAMIC	0.010UF	Z
C112A,113A			CK73FB1E103K	CHIP C	0.010UF	K
C114A			CC73FSL1H470J	CHIP C	47PF	J
C115A			CK73FB1H102J	CHIP C	1000PF	J
C116			CE04KW1C101M	ELECTRO	100UF	16WV
C117A			CK73FB1E223K	CHIP C	0.022UF	K
C118			CE04KW1C100M	ELECTRO	10UF	16WV
C119			CE04KW1H010M	ELECTRO	1.0UF	50WV
C120			CE04KW1HR47M	ELECTRO	0.47UF	50WV
C121			CE04KW1H010M	ELECTRO	1.0UF	50WV
C122A			CK73FB1E103K	CHIP C	0.010UF	K
C123			CK45FB1H103Z	CERAMIC	0.010UF	Z
C124A			CC73FSL1H470J	CHIP C	47PF	J
C125			CE04KW1H3R3M	ELECTRO	3.3UF	50WV
C126A			CK73FB1E103K	CHIP C	0.010UF	K
C127			CE04KW1C100M	ELECTRO	10UF	16WV
C128A			CK73FB1H221J	CHIP C	220PF	J
C129			CE04HW1H2R2M	NP-ELEC	2.2UF	50WV
C130			CK45FB1H223Z	CERAMIC	0.022UF	Z
C131A			CK73FB1H181J	CHIP C	180PF	J
C131A			CK73FB1H471K	CHIP C	470PF	K
C132,133			CE04KW1H010M	ELECTRO	1.0UF	50WV
C134,135			CQ93FMG1H183J	MYLAR	0.018UF	J
C134,135			CQ93FMG1H223J	MYLAR	0.022UF	J
C136A			CK73FB1E103K	CHIP C	0.010UF	K
C137A			CC73FCH1H331J	CHIP C	330PF	J
C138A			CC73FCH1H390J	CHIP C	39PF	J
C139			CE04KW1H4R7M	ELECTRO	4.7UF	50WV
C141A			CC73FCH1H330J	CHIP C	33PF	J
C142			CE04KW1C470M	ELECTRO	47UF	16WV
C143A,144A			CC73FCH1H330J	CHIP C	33PF	J

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④

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C145			CE04KW1C470M	ELECTRO	47UF	16WV
C146			CE04KW1H4R7M	ELECTRO	4.7UF	50WV
C147			CC45FSL1H271J	CERAMIC	270PF	J
C148			CE04KW1C470M	ELECTRO	47UF	16WV
C149			CK45FB1H103Z	CERAMIC	0.010UF	Z
C150			CC45FSH1H561J	CERAMIC	560PF	J
C151-153			CE04KW1H010M	ELECTRO	1.0UF	50WV
C154			CE04KW1C100M	ELECTRO	10UF	16WV
C155A			CK73FB1E103K	CHIP C	0.010UF	K
C156			CE04KW1H010M	ELECTRO	1.0UF	50WV
C157A			CC73FSL1H470J	CHIP C	47PF	J
C158A			CC73FSL1H101J	CHIP C	100PF	J
C159A			CC73FSL1H101J	CHIP C	100PF	J
C160A			CC73FSL1H101J	CHIP C	100PF	J
C161A,162A			CK73FB1H472K	CHIP C	4700PF	K
C163A-165A			CC73FSL1H101J	CHIP C	100PF	J
C201,202			CE04KW1A101M	ELECTRO	100UF	10WV
C203			CK45FB1H472K	CERAMIC	4700PF	K
C204			CK45FB1H103Z	CERAMIC	0.010UF	Z
C205			CE04KW1A101M	ELECTRO	100UF	10WV
C206A			CK73FB1E103K	CHIP C	0.010UF	K
C207A			CK73FB1H471K	CHIP C	470PF	K
C208A			CC73FSL1H470J	CHIP C	47PF	J
C209			CC45FSL1H221J	CERAMIC	220PF	J
C210A			CK73FB1H471K	CHIP C	470PF	K
C211A			CK45FB1H104Z	CERAMIC	0.10UF	Z
C212A			CK73FB1E103K	CHIP C	0.010UF	K
C213			CE04KW1HR47M	ELECTRO	0.47UF	50WV
C214A			CK73FB1E103K	CHIP C	0.010UF	K
C215A			CC73FCH1H240J	CHIP C	24PF	J
C216A			CC73FSL1H101J	CHIP C	100PF	J
C217A			CK73FB1E103K	CHIP C	0.010UF	K
C218A			CK73FB1H152K	CHIP C	1500PF	K
C219A			CK73FB1H473K	CHIP C	0.047UF	K
C220			CC45FSL1H120J	CERAMIC	12PF	J
C221A			CK45FB1H103Z	CERAMIC	0.010UF	Z
C222A			CK45FB1H103Z	CERAMIC	0.010UF	Z
C225A			CK73FB1E103K	CHIP C	0.010UF	K
C228			CE04KW1A471M	ELECTRO	470UF	10WV
C233A,234A			CK73FB1H271J	CHIP C	270PF	J
C235A,236A			CK73FB1H102J	CHIP C	1000PF	J
C237,238			CE04KW1C100M	ELECTRO	10UF	16WV
C239			CE04KW1A471M	ELECTRO	470UF	10WV
C241A			CK73FB1E333K	CHIP C	0.033UF	K
C242			CE04KW1H010M	ELECTRO	1.0UF	50WV
C243			CE04KW1A471M	ELECTRO	470UF	10WV
C244			CE04KW1H4R7M	ELECTRO	4.7UF	50WV
C245			CK45FB1H104Z	CERAMIC	0.10UF	Z
C246A-248A			CC73FSL1H101J	CHIP C	100PF	J
C301			CE04KW1H010M	ELECTRO	1.0UF	50WV
C302			CE04KW1H4R7M	ELECTRO	4.7UF	50WV
C303,304			CE04KW1C100M	ELECTRO	10UF	16WV
C305,306			CE04KW1H010M	ELECTRO	1.0UF	50WV
C307,308			CE04KW1C100M	ELECTRO	10UF	16WV
C309			CE04KW1H4R7M	ELECTRO	4.7UF	50WV

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PARTS LIST

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Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
C310			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C311A,312A			CC73FSL1H101J	CHIP C 100PF J		
C313,314			CE04KW1C100M	ELECTRO 10UF 16WV		
C315,316			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C317,318			CK45FB1H473Z	CERAMIC 0.047UF Z		
C319,320			CE04KW1HR47M	ELECTRO 0.47UF 50WV		
C321,322			CK45FF1H563Z	CERAMIC 0.056UF Z		
C323,324			CE04KW1HR47M	ELECTRO 0.47UF 50WV		
C325,326			CK45FB1H273K	CERAMIC 0.027UF K		
C327,328			CK45FF1H563Z	CERAMIC 0.056UF Z		
C329,330			CK45FB1H222K	CERAMIC 2200PF K		
C331,332			CK45FB1H103Z	CERAMIC 0.010UF Z		
C333,334			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C335-342			CE04KW1C100M	ELECTRO 10UF 16WV		
C343A			CC73FSL1H101J	CHIP C 100PF J		
C345,346			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C347			CE04KW1C220M	ELECTRO 22UF 16WV		
C348			CE04KW1C101M	ELECTRO 100UF 16WV		
C349A			CC73FSL1H101J	CHIP C 100PF J		
C350			CE04KW1C470M	ELECTRO 47UF 16WV	M	
C351A,352A			CK73FB1H271J	CHIP C 270PF J		
C353A			CC73FSL1H101J	CHIP C 100PF J		
C354A			CK73FB1H471K	CHIP C 470PF K		
C355A			CC73FSL1H101J	CHIP C 100PF J		
C401A-403A			CK73FB1E103K	CHIP C 0.010UF K		
C404A			CK73FB1E104K	CHIP C 0.10UF K		
C405A			CC73FCH1H220J	CHIP C 22PF J		
C406A			CC73FCH1H180J	CHIP C 18PF J		
C407			CE04KW1A471M	ELECTRO 470UF 10WV		
C408			CE04KW1A101M	ELECTRO 100UF 10WV		
C409			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C410A-412A			CK73FB1E103K	CHIP C 0.010UF K		
C413A			CC73FSL1H101J	CHIP C 100PF J		
C501,502			CE04KW1C100M	ELECTRO 10UF 16WV		
C513			CE04KW1C470M	ELECTRO 47UF 16WV		
C514			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C515A			CK73FB1E103K	CHIP C 0.010UF K		
C516			CE04KW1C470M	ELECTRO 47UF 16WV		
C517			CE04KW1A101M	ELECTRO 100UF 10WV		
C518			CE04KW1A471M	ELECTRO 470UF 10WV		
C519A			CK73FB1E223K	CHIP C 0.022UF K		
C520A			CK73FB1E104K	CHIP C 0.10UF K		
C521			C90-1827-05	ELECTRO 0.047F 5.5WV		
C522A,523A			CK73FB1E103K	CHIP C 0.010UF K		
C524			CE04KW1C470M	ELECTRO 47UF 16WV		
C525,526			CE04KW1C221M	ELECTRO 220UF 16WV		
C527,528			CE04KW1H3R3M	ELECTRO 3.3UF 50WV		
C529A,530A			CK73FB1H821J	CHIP C 820PF J		
C531,532			CE04KW1H3R3M	ELECTRO 3.3UF 50WV		
C533A,534A			CK73FB1E222K	CHIP C 2200PF K		
C535A,536			CK73FB1H821J	CHIP C 820PF J		
C601			CK45FB1H103Z	CERAMIC 0.010UF Z		
C602			CE04KW1E470M	ELECTRO 47UF 25WV		
C603A,604A			CK73FB1H221J	CHIP C 220PF J		
C605			CE04KW1H010M	ELECTRO 1.0UF 50WV		

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Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
C605A			CK73FB1H102K	CHIP C 1000PF K		
C606			CE04KW1A221M	ELECTRO 220UF 10WV		
C607,608			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C609-611			CK45FB1H224Z	CERAMIC 0.22UF Z		
C612A,613A			CC73FSL1H101J	CHIP C 100PF J		
C614,615			CE04KW1E332M	ELECTRO 3300UF 25WV		
C616			CK45FB1H224Z	CERAMIC 0.22UF Z		
C617			CK45FB1H103Z	CERAMIC 0.010UF Z		
C618			CE04KW1C471M	ELECTRO 470UF 16WV		
C620			CE04KW1A471M	ELECTRO 470UF 10WV		
C621			CE04KW1C100M	ELECTRO 10UF 16WV		
C623			CE04KW1E470M	ELECTRO 47UF 25WV		
C625			CE04KW1E472M	ELECTRO 4700UF 25WV		
C626			CK45FB1H103Z	CERAMIC 0.010UF Z		
C627			CE04KW1E470M	ELECTRO 47UF 25WV		
C630A,631A			CK45FB1H104Z	CERAMIC 0.10UF Z		
C633			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C634			CE04KW1H330M	ELECTRO 33UF 50WV		
C635			CK45FB1H103Z	CERAMIC 0.010UF Z		
C636			CE04KW1H101M	ELECTRO 100UF 50WV		
C638			CE04KW1H101M	ELECTRO 100UF 50WV		
C639			CK45FB1H103Z	CERAMIC 0.010UF Z		
C640			C90-3862-08	CERAMIC 0.0047UF 250V		
C643,644			CK45FB1H102K	CERAMIC 1000PF K		
C647-649			CK45FB1H103Z	CERAMIC 0.010UF Z		
C650			CE04KW1E100M	ELECTRO 10UF 25WV		
C701A,702A			CK73FB1H471J	CHIP C 470PF J		
C703A,704A			CC73FSL1H470J	CHIP C 47PF J		
C705A,706A			CK73FB1E103K	CHIP C 0.010UF K		
C707,708			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C709,710			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C711,712			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C713,714			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C715,716			CE04KW1C100M	ELECTRO 10UF 16WV		
C717A,718A			CK73FB1H561J	CHIP C 560PF J		
C719A,720A			CK73FB1H221J	CHIP C 220PF J		
C721			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C722,723			CE04KW1C101M	ELECTRO 100UF 16WV		
C724			CE04KW1C102M	ELECTRO 1000UF 16WV		
C725			CE04KW1C100M	ELECTRO 10UF 16WV		
C726A			CK73FB1E103K	CHIP C 0.010UF K		
C727A,728A			CK73FB1E223K	CHIP C 0.022UF K		
C729A			CK73FB1E103K	CHIP C 0.010UF K		
C730			CE04KW1C100M	ELECTRO 10UF 16WV		
C731			CQ93HP2A682J	MYLAR 6800PF J		
C732A,733A			CC73FSL1H101J	CHIP C 100PF J		
C734A,735A			CC73FSL1H470J	CHIP C 47PF J		
C736			CE04KW1C101M	ELECTRO 100UF 16WV		
C737			CE04KW1C220M	ELECTRO 22UF 16WV		
C738A,739A			CK73FB1H332K	CHIP C 3300PF K		
C741			CE04KW1E470M	ELECTRO 47UF 25WV		
C742A,743A			CC73FSL1H470J	CHIP C 47PF J		
C801A			CK73FB1E103K	CHIP C 0.010UF K		
C802A,803A			CK73FB1H473K	CHIP C 0.047UF K		
C804A			CC73FSL1H680J	CHIP C 68PF J		

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C805,806			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C901			CE04KW1C100M	ELECTRO 10UF 16WV		
C902A,903A			CK73FB1H102K	CHIP C 1000PF K		
C904,905			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C906			CE04KW1A101M	ELECTRO 100UF 10WV		
C907			CE04KW1C100M	ELECTRO 10UF 16WV	MTE	
C907			CE04KW1H4R7M	ELECTRO 4.7UF 50WV	KP	
C908A			CK73FB1E104K	CHIP C 0.10UF K		
C909			CK45FB1H224Z	CERAMIC 0.22UF Z		
C910			CE04KW1C470M	ELECTRO 47UF 16WV		
C911,912			CE04KW1C100M	ELECTRO 10UF 16WV		
C913,914			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C915			CE04KW1C101M	ELECTRO 100UF 16WV		
C916			CE04KW1C470M	ELECTRO 47UF 16WV		
C917A			CK45FB1H223Z	CERAMIC 0.022UF Z		
C918A			CK73FB1E104K	CHIP C 0.10UF K		
C919			CK45FB1H224Z	CERAMIC 0.22UF Z		
C1001A,02A			CC73FSL1H101J	CHIP C 100PF J		
C1003			CE04KW1A470M	ELECTRO 47UF 10WV		
TC101			C05-0242-08	TRIMMER CAP 014-10200-003		
CN201			E40-8445-08	FFC CONN (16P) 025-20016-202		
CN401			E40-8444-08	PIN ASSY (16P) 025-20016-201		
CN402			E40-8443-08	FFC CONN (15P) 025-20015-202		
CN403		*	E40-8467-08	14P WAFER 025-20014-203		
CN404			E40-8447-08	PIN ASSY (20P) 025-20020-201		
CN405			E40-8446-08	PIN ASSY (17P) 025-20017-201		
CN501		*	E40-8468-08	HEADER 14P 025-20014-301		
CN502		*	E40-8469-08	FFC CONN (28P) 025-20028-201		
CN503		*	E40-8470-08	HEADER 4P 025-20004-303		
CN504		*	E40-8471-08	2P WAFER 025-20002-210		
CN601			E35-2426-08	PIN ASSY (17P) 025-20017-301		
CN602			E40-8450-08	PIN ASSY (18P) 025-20018-301		
CN603			E35-2427-08	PIN ASSY (18P) 025-20018-201		
CN604			E35-2425-08	5P WAFER 025-20005-203		
CN606			E35-2424-08	4P WAFER 025-20004-202		
CN607		*	E40-8472-08	4P WAFER 025-20004-206		
CN701			E40-8449-08	PIN ASSY (20P) 025-20020-302		
CN702		*	E35-2453-08	WIRE HARNESS 025-10006-087		
CN703			E35-2431-08	12P FILM CONNE, 037-55600-125		
CN703			E40-8448-08	FFC CONN (12P) 025-20012-302		
CN801			E35-2428-08	PIN ASSY (15P) 025-20015-303		
CN902		*	E40-8471-08	2P WAFER 025-20002-210		
JK101			E70-0112-08	ANT TER.(4P) 046-10300-002	TE	
JK101			E70-0114-08	ANT TER.(4P) 046-10400-010	KPM	
JK301			E63-1091-08	RCA JACK (2P) 046-20200-008		
JK601			E70-0113-08	SP TERMINAL (4P) 046-10400-009		
JK602			E11-0398-08	HEADPHONE JACK021-23507-100		
JK603			E63-1092-08	PHONO JACK (1P) 046-20100-008		
Δ F601-603			F50-0151-08	FUSE 3.15A/250V, 050-05020-317	KPME	
Δ F601-603			F50-0152-08	FUSE 2A/250V 050-05020-201	T	
Δ F604			F50-0149-08	FUSE 0.5A/250V 050-05020-052	KPME	
Δ F604			F50-0153-08	FUSE 0.5A/250V 050-05020-053	T	
Δ F605			F50-0150-08	FUSE 2A/250V 050-05020-206	KPME	
Δ F605			F50-0154-08	FUSE 3.15A/250V 050-05020-318	T	

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CF101,102			L72-0536-05	CERAMIC FILTER 028-10700-023	TE	
CF101,102			L72-0596-05	CERAMIC FILTER 028-10700-009	KPM	
CF103			L72-0624-08	CERAMIC FILTER 028-00450-000		
L101			L40-2291-17	INDUCTOR 2.2UH 015-70022-007		
L102			L40-1011-17	INDUCTOR 100UH 015-70101-007		
L103			L40-1011-17	INDUCTOR 100UH 015-70101-007	ET	
L201			L40-1001-17	INDUCTOR 10UH 015-70100-007		
L401			L40-1001-17	INDUCTOR 10UH 015-70100-007		
L701,702			L40-1035-29	CHOKO COILS (10MH) 015-00103-00		
T101			L31-0640-08	AM ANT COIL 016-21032-104		
T102			L32-1018-08	MW OSC COIL 016-20360-023		
T103			L30-0963-08	AM IFT 016-27485-041		
T104			L30-0962-08	FM IFT 016-22373-102		
T701			L32-1019-08	BIAS OSC COIL 016-23841-103		
X101			L77-2262-08	CRYSTAL (7.2MHZ)052-07200-001		
X102			L77-2265-08	CRYSTAL (4.3MHZ)052-43320-000	TE	
X201			L77-2263-08	CRYSTAL (16.934MHZ) 052-16934-0		
X401			L77-2264-08	CRYSTAL (32.768MHZ) 052-32768-0		
X402			L78-0705-08	CERAMIC RESONATOR, 052-01000-10		
X501		*	L78-0709-08	CERAMIC RESONATOR, 052-05000-10		
J830A-832A			RK73FB2A000J	CHIP R 0 J 1/10W		
J837A			RK73FB2A000J	CHIP R 0 J 1/10W		
R55A			RK73FB2A183J	CHIP R 18K J 1/10W		
R102A			RK73FB2A104J	CHIP R 100K J 1/10W		
R104A			RK73FB2A681J	CHIP R 680 J 1/10W		
R108A			RK73FB2A562J	CHIP R 5.6K J 1/10W		
R109A			RK73FB2A103J	CHIP R 10K J 1/10W	ET	
R110A,111A			RK73FB2A473J	CHIP R 47K J 1/10W		
R112A			RK73FB2A103J	CHIP R 10K J 1/10W		
R113A			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R114A			RK73FB2A473J	CHIP R 47K J 1/10W	ET	
R115A			RK73FB2A103J	CHIP R 10K J 1/10W		
R116A			RK73FB2A000J	CHIP R 0 J 1/10W		
R117A			RK73FB2A470J	CHIP R 47 J 1/10W		
R118A,119A			RK73FB2A101J	CHIP R 100 J 1/10W		
R120A			RK73FB2A562J	CHIP R 5.6K J 1/10W		
R121A			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R122A			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R123A			RK73FB2A123J	CHIP R 12K J 1/10W	KP	
R123A			RK73FB2A183J	CHIP R 18K J 1/10W	ET	
R123A			RK73FB2A682J	CHIP R 6.8K J 1/10W	M	
R124A			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R125A,126A			RK73FB2A103J	CHIP R 10K J 1/10W		
R127A			RK73FB2A272J	CHIP R 2.7K J 1/10W		
R128A			RK73FB2A393J	CHIP R 39K J 1/10W		
R129A			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R130A,131A			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R132A			RK73FB2A562J	CHIP R 5.6K J 1/10W		
R133A			RK73FB2A331J	CHIP R 330 J 1/10W		
R134A-137A			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R138A			RK73FB2A473J	CHIP R 47K J 1/10W	ET	
R139A,140A			RK73FB2A102J	CHIP R 1.0K J 1/10W	ET	
R141A			RK73FB2A473J	CHIP R 47K J 1/10W	ET	
R142A			RK73FB2A331J	CHIP R 330 J 1/10W	ET	
R143A			RK73FB2A473J	CHIP R 47K J 1/10W	ET	

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R144A,145A			RK73FB2A102J	CHIP R 1.0K J 1/10W	KPM	
R146A,147A			RK73FB2A473J	CHIP R 47K J 1/10W		
R148A			RK73FB2A562J	CHIP R 5.6K J 1/10W		
R150A			RK73FB2A681J	CHIP R 680 J 1/10W		
R151A			RK73FB2A103J	CHIP R 10K J 1/10W		
R152A			RK73FB2A101J	CHIP R 100 J 1/10W	ET KPM KPM	
R155A			RK73FB2A000J	CHIP R 0 J 1/10W		
R155A			RK73FB2A4R7J	CHIP R 4.7 J 1/10W		
R156A			RK73FB2A000J	CHIP R 0 J 1/10W		
R201A-204A			RK73FB2A683J	CHIP R 68K J 1/10W		
R205A,206A			RK73FB2A224J	CHIP R 220K J 1/10W		
R208A			RK73FB2A100J	CHIP R 10 J 1/10W		
R209A			RK73FB2A183J	CHIP R 18K J 1/10W		
R210A,211A			RK73FB2A103J	CHIP R 10K J 1/10W		
R212A			RK73FB2A153J	CHIP R 15K J 1/10W		
R213A			RK73FB2A273J	CHIP R 27K J 1/10W		
R214A,215A			RK73FB2A103J	CHIP R 10K J 1/10W		
R216A,217A			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R218A			RK73FB2A103J	CHIP R 10K J 1/10W		
R219A			RK73FB2A105J	CHIP R 1.0M J 1/10W		
R220A			RK73FB2A104J	CHIP R 100K J 1/10W		
R221A			RK73FB2A103J	CHIP R 10K J 1/10W		
R222A			RK73FB2A333J	CHIP R 33K J 1/10W		
R223A			RK73FB2A153J	CHIP R 15K J 1/10W		
R224A			RK73FB2A104J	CHIP R 100K J 1/10W		
R225A			RK73FB2A153J	CHIP R 15K J 1/10W		
R226A,227A			RK73FB2A471J	CHIP R 470 J 1/10W		
R228A			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R229A			RK73FB2A471J	CHIP R 470 J 1/10W		
R230A			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R231A			RK73FB2A473J	CHIP R 47K J 1/10W		
R232A-234A			RK73FB2A471J	CHIP R 470 J 1/10W		
R235A,236A			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R237A			RK73FB2A153J	CHIP R 15K J 1/10W		
R238A			RK73FB2A184J	CHIP R 180K J 1/10W		
R239A			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R240A			RK73FB2A912J	CHIP R 9.1K J 1/10W		
R241A-244A			RK73FB2A822J	CHIP R 8.2K J 1/10W		
R245A			RK73FB2A912J	CHIP R 9.1K J 1/10W		
R246A,247A			RK73FB2A103J	CHIP R 10K J 1/10W		
R248A,249A			RK73FB2A474J	CHIP R 470K J 1/10W		
R250A			RK73FB2A105J	CHIP R 1.0M J 1/10W		
R251A			RK73FB2A224J	CHIP R 220K J 1/10W		
R252A			RK73FB2A103J	CHIP R 10K J 1/10W		
R253A			RK73FB2A101J	CHIP R 100 J 1/10W		
R254A			RK73FB2A105J	CHIP R 1.0M J 1/10W		
R255A			RK73FB2A471J	CHIP R 470 J 1/10W		
R256A			RK73FB2A100J	CHIP R 10 J 1/10W		
R257A			RK73FB2A331J	CHIP R 330 J 1/10W		
R258A			RK73FB2A100J	CHIP R 10 J 1/10W		
R259A			RK73FB2A471J	CHIP R 470 J 1/10W		
R260A			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R301A,302A			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R303A,304A			RK73FB2A822J	CHIP R 8.2K J 1/10W		
R305A-308A			RK73FB2A752J	CHIP R 7.5K J 1/10W		

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R309A,310A			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R315A,316A			RK73FB2A153J	CHIP R 15K J 1/10W		
R317A,318A			RK73FB2A104J	CHIP R 100K J 1/10W		
R319A,320A			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R321A,322A			RK73FB2A104J	CHIP R 100K J 1/10W		
R323A,324A			RK73FB2A471J	CHIP R 470 J 1/10W		
R325A			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R326A,327A			RK73FB2A224J	CHIP R 220K J 1/10W		
R328A			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R329A-332A			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R333A,334A			RK73FB2A103J	CHIP R 10K J 1/10W		
R404A			RK73FB2A473J	CHIP R 47K J 1/10W		
R406A,407A			RK73FB2A473J	CHIP R 47K J 1/10W		
R412A-414A			RK73FB2A473J	CHIP R 47K J 1/10W		
R417A			RK73FB2A104J	CHIP R 100K J 1/10W		
R418A			RK73FB2A475J	CHIP R 4.7M J 1/10W		
R419A			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R421A			RK73FB2A103J	CHIP R 10K J 1/10W		
R422A			RK73FB2A104J	CHIP R 100K J 1/10W		
R425A			RK73FB2A473J	CHIP R 47K J 1/10W		
R426A			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R427A			RK73FB2A103J	CHIP R 10K J 1/10W		
R428A-430A			RK73FB2A473J	CHIP R 47K J 1/10W		
R431A			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R432A			RK73FB2A473J	CHIP R 47K J 1/10W		
R433A			RK73FB2A103J	CHIP R 10K J 1/10W		
R434A			RK73FB2A101J	CHIP R 100 J 1/10W		
R442A			RK73FB2A103J	CHIP R 10K J 1/10W		
R517		*	R92-1927-08	FUSE R 22 J 1W		
R527A			RK73FB2A104J	CHIP R 100K J 1/10W		
R528A			RK73FB2A103J	CHIP R 10K J 1/10W		
R531			R92-0341-05	FUSE RESIST 4.7 J 1/4W		
R533A			RK73FB2A104J	CHIP R 100K J 1/10W		
R534A-538A			RK73FB2A103J	CHIP R 10K J 1/10W		
R540A			RK73FB2A104J	CHIP R 100K J 1/10W		
R541A			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R542A,543A			RK73FB2A104J	CHIP R 100K J 1/10W		
R544A			RK73FB2A101J	CHIP R 100 J 1/10W		
R545A			RK73FB2A101J	CHIP R 100 J 1/10W		
R546A			RK73FB2A152J	CHIP R 1.5K J 1/10W		
R550A			RK73FB2A101J	CHIP R 100 J 1/10W		
R552A			RK73FB2A101J	CHIP R 100 J 1/10W		
R553A,554A			RK73FB2A121J	CHIP R 120 J 1/10W		
R555A,556A			RK73FB2A183J	CHIP R 18K J 1/10W		
R557A,558A			RK73FB2A104J	CHIP R 100K J 1/10W		
R559A,560A			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R561A,562A			RK73FB2A103J	CHIP R 10K J 1/10W		
R563A,564A			RK73FB2A152J	CHIP R 1.5K J 1/10W		
R565A,566A			RK73FB2A153J	CHIP R 15K J 1/10W		
R567A,568A			RK73FB2A103J	CHIP R 10K J 1/10W		
R569A			RK73FB2A101J	CHIP R 100 J 1/10W		
R601A,602A			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R603A			RK73FB2A153J	CHIP R 15K J 1/10W		
R603A			RK73FB2A223J	CHIP R 22K J 1/10W		
R604A			RK73FB2A104J	CHIP R 100K J 1/10W		

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KP
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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
△	R605A,606A		RK73FB2A183J	CHIP R 18K J 1/10W	KP	
	R607A,608A		RK73FB2A431J	CHIP R 430 J 1/10W		
	R609		R92-1921-08	FUSE RESIST 3.3 J 1/4W		
	R610A		RK73FB2A221J	CHIP R 220 J 1/10W		
	R611,612		R92-0341-05	FUSE RESIST 4.7 J 1/4W		
△	R615A		RK73FB2A103J	CHIP R 10K J 1/10W		
	R617A		RK73FB2A102J	CHIP R 1.0K J 1/10W		
	R620A		RK73FB2A222J	CHIP R 2.2K J 1/10W		
	R622		R92-1921-08	FUSE RESIST 3.3 J 1/4W		
	R623A		RK73FB2A221J	CHIP R 220 J 1/10W		
△	R625A		RK73FB2A473J	CHIP R 47K J 1/10W		
	R626A		RK73FB2A102J	CHIP R 1.0K J 1/10W		
	R627A		RK73FB2A103J	CHIP R 10K J 1/10W		
	R628A		RK73FB2A473J	CHIP R 47K J 1/10W		
	R629		R92-1928-08	FUSE RESIST 0.22 J 2W		
△	R630A		RK73FB2A821J	CHIP R 820 J 1/10W		
	R631A		RK73FB2A202J	CHIP R 2.0K J 1/10W		
	R632A		RK73FB2A562J	CHIP R 5.6K J 1/10W		
	R633A		RK73FB2A561J	CHIP R 560 J 1/10W		
	R634A		RK73FB2A101J	CHIP R 100 J 1/10W		
△	R635A		RK73FB2A123J	CHIP R 12K J 1/10W		
	R636A		RK73FB2A102J	CHIP R 1.0K J 1/10W		
	R637A		RK73FB2A473J	CHIP R 47K J 1/10W		
	R638		R92-0219-05	FUSE RESIST 10 G 1/4W		
	R640A		RK73FB2A681J	CHIP R 680 J 1/10W		
△	R641A		RK73FB2A222J	CHIP R 2.2K J 1/10W		
	R642A		RK73FB2A122J	CHIP R 1.2K J 1/10W		
	R649		R92-1844-05	CARBON 3.3M J 1/2W		
	R650A-653A		RK73FB2A103J	CHIP R 10K J 1/10W		
	R654A		RK73FB2A182J	CHIP R 1.8K J 1/10W		
△	R655A-657A		RK73FB2A103J	CHIP R 10K J 1/10W		
	R658A		RK73FB2A564J	CHIP R 560K J 1/10W		
	R701A,702A		RK73FB2A184J	CHIP R 180K J 1/10W		
	R703A,704A		RK73FB2A103J	CHIP R 10K J 1/10W		
	R705A,706A		RK73FB2A224J	CHIP R 220K J 1/10W		
△	R707A,708A		RK73FB2A431J	CHIP R 430 J 1/10W		
	R709A,710A		RK73FB2A123J	CHIP R 12K J 1/10W		
	R711A,712A		RK73FB2A273J	CHIP R 27K J 1/10W		
	R713A,714A		RK73FB2A103J	CHIP R 10K J 1/10W		
	R715A,716A		RK73FB2A391J	CHIP R 390 J 1/10W		
△	R717A,718A		RK73FB2A103J	CHIP R 10K J 1/10W		
	R719A,720A		RK73FB2A183J	CHIP R 18K J 1/10W		
	R721A,722A		RK73FB2A272J	CHIP R 2.7K J 1/10W		
	R723A,724A		RK73FB2A222J	CHIP R 2.2K J 1/10W		
	R725A,726A		RK73FB2A103J	CHIP R 10K J 1/10W		
△	R727A,728A		RK73FB2A153J	CHIP R 15K J 1/10W		
	R731A		RK73FB2A101J	CHIP R 100 J 1/10W		
	R734A		RK73FB2A102J	CHIP R 1.0K J 1/10W		
	R735A		RK73FB2A223J	CHIP R 22K J 1/10W		
	R736A		RK73FB2A101J	CHIP R 100 J 1/10W		
△	R739A,740A		RK73FB2A183J	CHIP R 18K J 1/10W		
	R741,742		RK73FB2A3R3J	CHIP R 3.3 J 1/10W		
	R743A		RK73FB2A333J	CHIP R 33K J 1/10W		
	R744A		RK73FB2A202J	CHIP R 2.0K J 1/10W		
	R745A		RK73FB2A102J	CHIP R 1.0K J 1/10W		

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
△	R747A		RK73FB2A472J	CHIP R 4.7K J 1/10W	KP MET	
	R748A		RK73FB2A473J	CHIP R 47K J 1/10W		
	R749A		RK73FB2A104J	CHIP R 100K J 1/10W		
	R750A		RK73FB2A103J	CHIP R 10K J 1/10W		
	R751A		RK73FB2A333J	CHIP R 33K J 1/10W		
△	R752A		RK73FB2A223J	CHIP R 22K J 1/10W		
	R753A		RK73FB2A103J	CHIP R 10K J 1/10W		
	R753A		RK73FB2A473J	CHIP R 47K J 1/10W		
	R754A		RK73FB2A912J	CHIP R 9.1K J 1/10W		
	R755A		RK73FB2A392J	CHIP R 3.9K J 1/10W		
△	R756A-758A		RK73FB2A472J	CHIP R 4.7K J 1/10W		
	R759A		RK73FB2A683J	CHIP R 68K J 1/10W		
	R760A		RK73FB2A472J	CHIP R 4.7K J 1/10W		
	R762A		RK73FB2A103J	CHIP R 10K J 1/10W		
	R763A-766A		RK73FB2A101J	CHIP R 100 J 1/10W		
△	R767A		RK73FB2A473J	CHIP R 47K J 1/10W		
	R768A		RK73FB2A222J	CHIP R 2.2K J 1/10W		
	R769A		RK73FB2A103J	CHIP R 10K J 1/10W		
	R770A		RK73FB2A104J	CHIP R 100K J 1/10W		
	R771A		RK73FB2A473J	CHIP R 47K J 1/10W		
△	R772A		RK73FB2A472J	CHIP R 4.7K J 1/10W		
	R773A		RK73FB2A104J	CHIP R 100K J 1/10W		
	R774A		RK73FB2A272J	CHIP R 2.7K J 1/10W		
	R775A		RK73FB2A473J	CHIP R 47K J 1/10W		
	R777A,778A		RK73FB2A100J	CHIP R 10 J 1/10W		
△	R779A,780A		RK73FB2A472J	CHIP R 4.7K J 1/10W		
	R782A		RK73FB2A103J	CHIP R 10K J 1/10W		
	R783A		RK73FB2A104J	CHIP R 100K J 1/10W		
	R784A		RK73FB2A472J	CHIP R 4.7K J 1/10W		
	R785A		RK73FB2A473J	CHIP R 47K J 1/10W		
△	R786A		RK73FB2A103J	CHIP R 10K J 1/10W		
	R787A,788A		RK73FB2A152J	CHIP R 1.5K J 1/10W		
	R789		RK73FB2A331J	CHIP R 330 J 1/10W		
	R801A		RK73FB2A103J	CHIP R 10K J 1/10W		
	R802A-808A		RK73FB2A473J	CHIP R 47K J 1/10W		
△	R809A		RK73FB2A103J	CHIP R 10K J 1/10W		
	R810A-822A		RK73FB2A473J	CHIP R 47K J 1/10W		
	R823A		RK73FB2A103J	CHIP R 10K J 1/10W		
	R824A-846A		RK73FB2A473J	CHIP R 47K J 1/10W		
	R847A-851A		RK73FB2A103J	CHIP R 10K J 1/10W		
△	R852A-859A		RK73FB2A102J	CHIP R 1.0K J 1/10W		
	R860A		RK73FB2A103J	CHIP R 10K J 1/10W		
	R861A-864A		RK73FB2A102J	CHIP R 1.0K J 1/10W		
	R866A		RK73FB2A201J	CHIP R 200 J 1/10W		
	R867A		RK73FB2A271J	CHIP R 270 J 1/10W		
△	R868A		RK73FB2A361J	CHIP R 360 J 1/10W		
	R869A		RK73FB2A621J	CHIP R 620 J 1/10W		
	R871A		RK73FB2A201J	CHIP R 200 J 1/10W		
	R872A		RK73FB2A271J	CHIP R 270 J 1/10W		
	R873A		RK73FB2A361J	CHIP R 360 J 1/10W		
△	R874A		RK73FB2A621J	CHIP R 620 J 1/10W		
	R875A		RK73FB2A332J	CHIP R 3.3K J 1/10W		
	R877A		RK73FB2A201J	CHIP R 200 J 1/10W		
	R878A		RK73FB2A271J	CHIP R 270 J 1/10W		
	R879A		RK73FB2A361J	CHIP R 360 J 1/10W		

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PARTS LIST

RXD-M31MD

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R880A			RK73FB2A621J	CHIP R 620 J 1/10W		
R881A			RK73FB2A132J	CHIP R 1.3K J 1/10W		
R882A			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R901A			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R902A			RK73FB2A223J	CHIP R 22K J 1/10W		
R903A			RK73FB2A562J	CHIP R 5.6K J 1/10W		
R904A			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R905A			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R906A			RK73FB2A223J	CHIP R 22K J 1/10W		
R907A,908A			RK73FB2A683J	CHIP R 68K J 1/10W		
R909A			RK73FB2A473J	CHIP R 47K J 1/10W		
R910A			RK73FB2A223J	CHIP R 22K J 1/10W		
R911A			RK73FB2A104J	CHIP R 100K J 1/10W		
R912A			RK73FB2A103J	CHIP R 10K J 1/10W		
R913A			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R914A			RK73FB2A223J	CHIP R 22K J 1/10W		
R915A			RK73FB2A682J	CHIP R 6.8K J 1/10W		
R916A,917A			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R918A,919A			RK73FB2A103J	CHIP R 10K J 1/10W		
R920A			RK73FB2A473J	CHIP R 47K J 1/10W		
R921A			RK73FB2A223J	CHIP R 22K J 1/10W		
R922A			RK73FB2A104J	CHIP R 100K J 1/10W		
R924A			RK73FB2A103J	CHIP R 10K J 1/10W		
R925A,926A			RK73FB2A104J	CHIP R 100K J 1/10W		
R927A,928A			RK73FB2A223J	CHIP R 22K J 1/10W		
R930A			RK73FB2A470J	CHIP R 47 J 1/10W		
R931A			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R932A			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R933			RD14BB2H221J	RD 220 J 1/2W		
R935A,936A			RK73FB2A103J	CHIP R 10K J 1/10W		
R938A			RK73FB2A223J	CHIP R 22K J 1/10W		
R941A			RK73FB2A224J	CHIP R 220K J 1/10W		
R942A,943A			RK73FB2A473J	CHIP R 47K J 1/10W		
R944A			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R945A			RK73FB2A223J	CHIP R 22K J 1/10W		
R946A			RK73FB2A473J	CHIP R 47K J 1/10W		
R947A			RK73FB2A333J	CHIP R 33K J 1/10W		
R948A,949A			RK73FB2A154J	CHIP R 150K J 1/10W		
R1001A			RK73FB2A122J	CHIP R 1.2K J 1/10W		
R1002A			RK73FB2A201J	CHIP R 200 J 1/10W		
R1003A			RK73FB2A271J	CHIP R 270 J 1/10W		
R1004A			RK73FB2A361J	CHIP R 360 J 1/10W		
R1005A			RK73FB2A621J	CHIP R 620 J 1/10W		
R1006A			RK73FB2A132J	CHIP R 1.3K J 1/10W		
R1007A			RK73FB2A122J	CHIP R 1.2K J 1/10W		
R1008A			RK73FB2A201J	CHIP R 200 J 1/10W		
R1009A			RK73FB2A271J	CHIP R 270 J 1/10W		
R1010A			RK73FB2A361J	CHIP R 360 J 1/10W		
R1011A			RK73FB2A621J	CHIP R 620 J 1/10W		
R1012A			RK73FB2A122J	CHIP R 1.2K J 1/10W		
R1013A			RK73FB2A201J	CHIP R 200 J 1/10W		
R1014A			RK73FB2A271J	CHIP R 270 J 1/10W		
R1015A			RK73FB2A361J	CHIP R 360 J 1/10W		
R1016A			RK73FB2A621J	CHIP R 620 J 1/10W		
R1017A			RK73FB2A132J	CHIP R 1.3K J 1/10W		

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R1018A,19A			RK73FB2A103J	CHIP R 10K J 1/10W		
R1020A,21A			RK73FB2A223J	CHIP R 22K J 1/10W		
R1022A			RK73FB2A331J	CHIP R 330 J 1/10W		
R1023A,24A			RK73FB2A223J	CHIP R 22K J 1/10W		
R1025A			RK73FB2A331J	CHIP R 330 J 1/10W		
R1026A			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R1027A			RK73FB2A182J	CHIP R 1.8K J 1/10W		
R1028A			RK73FB2A103J	CHIP R 10K J 1/10W		
R1029A			RK73FB2A104J	CHIP R 100K J 1/10W		
R1030A			RK73FB2A103J	CHIP R 10K J 1/10W		
R1031A			RK73FB2A104J	CHIP R 100K J 1/10W		
R1032A			RK73FB2A103J	CHIP R 10K J 1/10W		
R1033A			RK73FB2A104J	CHIP R 100K J 1/10W		
R1034A			RK73FB2A103J	CHIP R 10K J 1/10W		
R1035A			RK73FB2A104J	CHIP R 100K J 1/10W		
R1036A-39A			RK73FB2A331J	CHIP R 330 J 1/10W		
R1040A-42A			RK73FB2A103J	CHIP R 10K J 1/10W		
V1001			T99-0625-08	ROTARY ENCODER 020-81620-165		
VR101			R32-0085-08	TRIMMING POT 012-10103-102		
VR201			R32-0084-08	TRIMMING POT 012-10203-102		
VR701,702			R32-0086-08	TRIMMING POT 012-10104-201		
SW1001			S70-0053-08	TACT SWITCH 020-31100-155		
SW1003-7			S70-0053-08	TACT SWITCH 020-31100-155		
SW401			S68-0123-08	PUSH SWITCH 020-32204-160		
SW601			S62-0090-08	SLIDE SWITCH 020-12207-106		
SW603			S62-0091-08	SLIDE SWITCH (AC CHANGE)	M	
SW801-810			S70-0075-08	TACT SWITCH 020-31100-162		
SW901,902			S74-0082-08	DETECTOR SWITCH 020-31100-053		
BD601,602			RS402	BRIDGE RECTIFIER RS402		
D101,102			1S5133	SWITCHING DIODE		
D103			MTZJ5.1B	ZENER DIODE		
D201,202			1S5133	SWITCHING DIODE		
D401-409			1S5133	SWITCHING DIODE		
D501			MTZJ3.3B	ZENER DIODE		
D502			1S5133	SWITCHING DIODE		
D503			MTZJ6.8B	ZENER DIODE		
D504			1S5133	SWITCHING DIODE		
Δ D505			1N4004	DIODE		
D601			1S5133	SWITCHING DIODE		
D602			MTZJ6.8B	ZENER DIODE		
D604			1S5133	SWITCHING DIODE		
D605			MTZJ5.1B	ZENER DIODE		
D606			MTZJ5.6B	ZENER DIODE		
D607			MTZJ6.2B	ZENER DIODE		
D608			MTZJ33B	ZENER DIODE		
Δ D609			1N4004	DIODE		
D610-614			1S5133	DIODE (SWITCHING)		
D615			MTZJ5.6B	ZENER DIODE		
D617			MTZJ6.8B	ZENER DIODE		
D620			1S5133	DIODE (SWITCHING)		
D702			1S5133	DIODE (SWITCHING)		
D703,704			1N4004	DIODE		
D705-706			1S5133	DIODE (SWITCHING)		

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D708 D709 D901-906 D907 D908-913			MTZJ5.1B MTZJ13B 1SS133 MTZJ3.3B 1SS133	ZENER DIODE ZENER DIODE SWITCHING DIODE ZENER DIODE SWITCHING DIODE		
FL801 IC1001 IC101 IC102 IC103			CM1829C W02-2707-08 LA1837 LC72131 BU1923F	FL 049-18293-000 ELECTRIC MODULE, 061-04481-000 IC(FM/AM SYSTEM IC) IC(PLL FREQUENCY SYNTHESIZER) IC	TE	
IC201 IC202 IC203 IC301 IC401			CXA1571M CXD2587Q BA5979S LC75396NE M30622MA-198FP	IC(CD RF AMP) IC(DAC DSP) IC(4CH BTL) IC(ELECTRIC VOLUME) IC		
IC402 IC501 IC502 IC503 IC601			PST600F UPD78058GC-B20 TC74HCT7007AF LA6458S TDA7265	IC IC IC(HEX BUFFER) IC(OP AMP X2) IC		
△ IC701 IC702 IC703 IC801 Q101			BA3126N HA12219NT LA6458S LC75710NE 2SA1317	IC(HEAD SW) IC(EQ) IC(OP AMP X2) IC(VFD DISPLAY DRIVER) TRANSISTOR		
Q102 Q103 Q201 Q202 Q203			2SC1923-O 2SA1317 2SA984E 2SC3330(S,T) 2SA984E	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	ET	
△ Q204 Q301,302 Q303-306 Q401 Q501,502			2SB764(E,F) 2SA1317 2SC3330(S,T) 2SC3330(S,T) 2SD400E	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
△ Q503-506 Q507,508 Q601-603 △ Q604 Q605			2SC3330(S,T) 2SA1317 2SD2144W 2SD2061F 2SA1317	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
△ Q606 Q607 Q608 Q609 Q610			2SC3330(S,T) 2SD2061F 2SC2274E 2SC3330(S,T) 2SA1317	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
△ Q611 △ Q612 Q613 Q701,702 Q703			2SC2274E 2SA984E 2SA1317 2SC3330(S,T) 2SC2274E	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q705 Q706,707 Q708 Q709 Q710			2SA1317 2SC3330(S,T) 2SA984E 2SC3330(S,T) 2SB1205(S,T)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		

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Q711 Q712 Q713 Q714 Q715			2SC3330(S,T) 2SA1317 2SC3330(S,T) 2SD2061E 2SC3330(S,T)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q801-808 Q901 Q902,903 Q904 Q905,906			2SC3330(S,T) 2SC2274E 2SA984E 2SC2274E 2SC3330(S,T)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q907 Q908,909 Q910 Q911 Q912			2SA984E 2SC3330(S,T) 2SA1317 2SC3330(S,T) 2SA1317	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q913-916 Q1001,2 Q1003-8 VC101			2SC3330(S,T) 2SA1317 2SC3330U SVC342L	TRANSISTOR TRANSISTOR TRANSISTOR TUNING DIODES		
JK302 U101 U101			W02-1114-05 W02-2706-08 W02-2711-08	OPT OUTPUT FM FRONT END FM FRONT END	061-00178-001 061-00172-003 061-00172-002	M TE KPM
MD MECHANISM (MDM-98A)						
C1100 C1101 C1102 C1103 C1104			C92-0171-08 C92-0205-08 CK73FF1C105K CK73FB1H273K CK73FB1H333K	CHIP-C ELECTRO CHIP C CHIP C CHIP C	4.7UF 1.0UF 1.0UF 0.027UF 0.033UF	K 6.3WV K K K
C1105 C1106 C1107 C1108 C1109			CK73FB1H332K C92-0205-08 CK73GB1C333K CK73FB1C474K C92-0205-08	CHIP C ELECTRO CHIP C CHIP C ELECTRO	3300PF 1.0UF 0.033UF 0.47UF 1.0UF	K 6.3WV K K 6.3WV
C1110 C1111 C1112 C1113-17 C1118			CK73FB1H472K CK73FB1C474K C93-0044-08 C93-0034-08 CK73FF1C105Z	CHIP C CHIP C CERAMIC CERAMIC CHIP C	4700PF 0.47UF 330PF 270PF 1.0UF	K K J J Z
C1119 C1120 C1200 C1201 C1202,03			C92-0205-08 CK73FF1H103Z CK73FF1C105Z C92-0172-08 CK73FF1C105Z	ELECTRO CHIP C CHIP C CHIP-C CHIP C	1.0UF 0.010UF 1.0UF 10UF 1.0UF	6.3WV Z Z K Z
C1204 C1205 C1206 C1207 C1208,09			CK73GB1C473K CK73FF1C105Z CK73FB1H122K CK73FF1C105Z CC73GCH1H120J	CHIP C CHIP C CHIP C CHIP C CHIP C	0.047UF 1.0UF 1200PF 1.0UF 12PF	K Z K Z J
C1210 C1300 C1301 C1302 C1303			CC73GCH1H220J CC73FCH1H121J CK73GB1C273K C92-0172-08 C92-0171-08	CHIP C CHIP C CHIP C CHIP-C CHIP-C	22PF 120PF 0.027UF 10UF 4.7UF	J J K K K
C1304			C92-0172-08	CHIP-C	10UF	K

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PARTS LIST

RXD-M31MD

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C1400,01			CK73GB1C223K	CHIP C	0.022UF	K
C1402			CK73FB1H681K	CHIP C	680PF	K
C1403			CK73GB1C473K	CHIP C	0.047UF	K
C1404			CK73GB1C223K	CHIP C	0.022UF	K
C1405			CK73FB1H681K	CHIP C	680PF	K
C1406			CK73GB1C223K	CHIP C	0.022UF	K
C1407			CK73GB1C473K	CHIP C	0.047UF	K
C1408			CK73GB1C223K	CHIP C	0.022UF	K
C1409			CK73GF1E104Z	CHIP C	0.10UF	Z
C1410			CK73FF1C105Z	CHIP C	1.0UF	Z
C1411			C93-0044-08	CERAMIC	330PF	J
C1501			CK73FF1C105Z	CHIP C	1.0UF	Z
C1502			CC73GCH1H221J	CHIP C	220PF	J
C1503			CK73EB1C334K	CHIP C	0.33UF	K
C1504			CC73GCH1H221J	CHIP C	220PF	J
C1505,06			CC73GCH1H101J	CHIP C	100PF	J
C1508,09			CK73GB1C473K	CHIP C	0.047UF	K
C1511			CC73GCH1H220J	CHIP C	22PF	J
C1600			CK73EF1C105Z	CHIP C	1.0UF	Z
C1601-04			CC73GSL1H821J	CHIP C	820PF	J
C1606			C92-0172-08	CHIP-C	10UF	K
C1607			CK73FF1C105Z	CHIP C	1.0UF	Z
C1608			C92-0151-08	ELECTRO	100UF	10WV
C1610			C92-0171-08	CHIP-C	4.7UF	K
C1611,12			CK73FB1H822K	CHIP C	8200PF	K
C1613			CK73GB1E153K	CHIP C	0.015UF	K
C1615			CK73GB1E153K	CHIP C	0.015UF	K
C1616			C92-0151-08	ELECTRO	100UF	10WV
C1619			C93-0044-08	CERAMIC	330PF	J
C1700,01			C92-0162-08	ELECTRO	47UF	4WV
C1702			C93-0035-08	CERAMIC	0.01UF	K
C1703			CK73GB1C473K	CHIP C	0.047UF	K
C1704			C92-0162-08	ELECTRO	47UF	4WV
C1705			CK73GB1C473K	CHIP C	0.047UF	K
C1706			CK73FF1H103Z	CHIP C	0.010UF	Z
C1707			CK73FF1C105Z	CHIP C	1.0UF	Z
C1708,09			CK73FF1H103Z	CHIP C	0.010UF	Z
C1710			C92-0173-08	ELECTRO	10UF	16WV
C1711			C92-0162-08	ELECTRO	47UF	4WV
C1712			C92-0173-08	ELECTRO	10UF	16WV
C1713			CK73FF1H103Z	CHIP C	0.010UF	Z
C1714			CK73FF1C105Z	CHIP C	1.0UF	Z
C1715			CK73FF1H103Z	CHIP C	0.010UF	Z
C1716			C92-0162-08	ELECTRO	47UF	4WV
C1800			C92-0174-08	ELECTRO	220UF	4WV
C1801,02			C92-0172-08	CHIP-C	10UF	K
C1803			C92-0151-08	ELECTRO	100UF	10WV
C1804			CK73EF1C225Z	CHIP C	2.2UF	Z
C1805			CK73FF1C105Z	CHIP C	1.0UF	Z
CN1101			E40-8210-08	PIN ASSY		
CN1300			E40-8080-08	PIN ASSY		
CN1401			E40-8211-08	PIN ASSY		
CN1501			E40-8371-08	PIN ASSY		
CN1602			E40-8212-08	PIN ASSY		

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CN1603			E40-8372-08	PIN ASSY		
CN1604			E40-8213-08	PIN ASSY		
CN1901			E40-8228-08	PIN ASSY		
CW1901	2A		E40-8229-08	FLAT CABLE (5P)		
CW1903	2B		E40-8230-08	WIRING HARNESS (2P)		
L1100			L90-0100-08	COIL		
L1101			L90-0099-08	COIL		
L1200			L90-0301-08	COIL		
L1201			L90-0100-08	COIL		
L1300,01			L90-0302-08	COIL		
L1501			L90-0303-08	COIL		
L1503			L90-0301-08	COIL		
L1600			L90-0303-08	COIL		
L1700,01			L90-0099-08	COIL		
XL1201			L77-2224-08	CRYSTAL RESONATOR (33.8688MHZ)		
R1100			RK73EB2B270J	CHIP R	27	J 1/8W
R1101			RK73GB1J1R0J	CHIP R	1	J 1/16W
R1102			RK73GB1J103J	CHIP R	10K	J 1/16W
R1103			RK73GB1J394J	CHIP R	390K	J 1/16W
R1105			RK73GB1J122J	CHIP R	1.2K	J 1/16W
R1106			RK73GB1J563J	CHIP R	56K	J 1/16W
R1107			RK73GB1J561J	CHIP R	560	J 1/16W
R1108-12			RK73GB1J223J	CHIP R	22K	J 1/16W
R1113			R92-1823-08	JUMPER R	0	J 1/16W
R1200,01			RK73GB1J124J	CHIP R	120K	J 1/16W
R1202,03			RK73GB1J154D	CHIP R	150K	D 1/16W
R1204,05			RK73GB1J623J	CHIP R	62K	J 1/16W
R1206,07			RK73GB1J333J	CHIP R	33K	J 1/16W
R1208			RK73GB1J221J	CHIP R	220	J 1/16W
R1209			RK73GB1J101J	CHIP R	100	J 1/16W
R1210,11			RK73GB1J221J	CHIP R	220	J 1/16W
R1212			RK73GB1J470J	CHIP R	47	J 1/16W
R1214			RK73GB1J103J	CHIP R	10K	J 1/16W
R1215			RK73GB1J105J	CHIP R	1.0M	J 1/16W
R1216			R92-1823-08	JUMPER R	0	J 1/16W
R1217			RK73GB1J151J	CHIP R	150	J 1/16W
R1219			RK73GB1J103J	CHIP R	10K	J 1/16W
R1220			R92-1823-08	JUMPER R	0	J 1/16W
R1221,22			RK73GB1J103J	CHIP R	10K	J 1/16W
R1223			RK73GB1J101J	CHIP R	100	J 1/16W
R1224			R92-1823-08	JUMPER R	0	J 1/16W
R1300			R92-1824-08	JUMPER R	0	J 1/10W
R1301			RK73GB1J100J	CHIP R	10	J 1/16W
R1302			R92-1824-08	JUMPER R	0	J 1/10W
R1303			RK73EB2B000J	CHIP R	0	J 1/8W
R1304			RK73FB2A681J	CHIP R	680	J 1/10W
R1400			RK73GB1J272J	CHIP R	2.7K	J 1/16W
R1401			RK73GB1J152J	CHIP R	1.5K	J 1/16W
R1402-04			RK73GB1J102J	CHIP R	1.0K	J 1/16W
R1405			RK73GB1J332J	CHIP R	3.3K	J 1/16W
R1406,07			RK73GB1J104J	CHIP R	100K	J 1/16W
R1408			RK73GB1J332J	CHIP R	3.3K	J 1/16W
R1409			RK73GB1J102J	CHIP R	1.0K	J 1/16W
R1410			RK73GB1J332J	CHIP R	3.3K	J 1/16W
R1411			RK73GB1J102J	CHIP R	1.0K	J 1/16W

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R1412			RK73GB1J103J	CHIP R	10K	J 1/16W
R1413,14			RK73GB1J102J	CHIP R	1.0K	J 1/16W
R1415-17			RK73GB1J103J	CHIP R	10K	J 1/16W
R1419-24			RK73GB1J103J	CHIP R	10K	J 1/16W
R1425			RK73GB1J104J	CHIP R	100K	J 1/16W
R1426-28			RK73GB1J102J	CHIP R	1.0K	J 1/16W
R1429			RK73GB1J473J	CHIP R	47K	J 1/16W
R1430			RK73GB1J103J	CHIP R	10K	J 1/16W
R1444			RK73GB1J101J	CHIP R	100	J 1/16W
R1510,11			RK73GB1J822J	CHIP R	8.2K	J 1/16W
R1512,13			RK73GB1J470J	CHIP R	47	J 1/16W
R1514			RK73GB1J102J	CHIP R	1.0K	J 1/16W
R1515,16			RK73GB1J182J	CHIP R	1.8K	J 1/16W
R1517,18			RK73GB1J103J	CHIP R	10K	J 1/16W
R1519			RK73GB1J121J	CHIP R	120	J 1/16W
R1520			RK73GB1J103J	CHIP R	10K	J 1/16W
R1521			RK73GB1J682J	CHIP R	6.8K	J 1/16W
R1522			RK73GB1J221J	CHIP R	220	J 1/16W
R1523			R92-1823-08	JUMPER R	0	J 1/16W
R1525			RK73GB1J332J	CHIP R	3.3K	J 1/16W
R1526			RK73GB1J102J	CHIP R	1.0K	J 1/16W
R1527-29			RK73GB1J822J	CHIP R	8.2K	J 1/16W
R1530,31			RK73GB1J221J	CHIP R	220	J 1/16W
R1532			RK73GB1J102J	CHIP R	1.0K	J 1/16W
R1535			RK73FB2A470J	CHIP R	47	J 1/10W
R1536-39			R92-1824-08	JUMPER R	0	J 1/10W
R1561			R92-1824-08	JUMPER R	0	J 1/10W
R1600,01			RK73GB1J682D	CHIP R	6.8K	D 1/16W
R1605,06			RK73GB1J103J	CHIP R	10K	J 1/16W
R1612			RK73GB1J204D	CHIP R	200K	D 1/16W
R1614			R92-1874-08	METAL	100K	D 1/16W
R1616,17			RK73GB1J682J	CHIP R	6.8K	J 1/16W
R1618			RK73GB1J153J	CHIP R	15K	J 1/16W
R1620			RK73GB1J153J	CHIP R	15K	J 1/16W
R1700			RK73GB1J393J	CHIP R	39K	J 1/16W
R1701			RK73GB1J303J	CHIP R	30K	J 1/16W
R1702			R92-1872-08	METAL	1K	D 1/16W
R1703			R92-1875-08	METAL	3.3K	D 1/16W
R1704			RK73GB1J821J	CHIP R	820	J 1/16W
R1705			RK73GB1J393J	CHIP R	39K	J 1/16W
R1706			RK73GB1J105J	CHIP R	1.0M	J 1/16W
R1707			RK73GB1J102J	CHIP R	1.0K	J 1/16W
R1708			RK73GB1J273J	CHIP R	27K	J 1/16W
R1709			RK73GB1J393J	CHIP R	39K	J 1/16W
R1710			RK73GB1J684J	CHIP R	680K	J 1/16W
R1711,12			RK73FB2A120J	CHIP R	12	J 1/10W
R1713			RK73GB1J104J	CHIP R	100K	J 1/16W
R1801			RK73GB1J271J	CHIP R	270	J 1/16W
R1802			R92-1873-08	METAL	220K	D 1/16W
R1803			R92-1874-08	METAL	100K	D 1/16W
R1804			RK73GB1J391J	CHIP R	390	J 1/16W
R1805			RK73GB1J271J	CHIP R	270	J 1/16W
R1806			RK73FB2A1R0J	CHIP R	1	J 1/10W
R1807			RK73GB1J273J	CHIP R	27K	J 1/16W
R1808			RK73GB1J182J	CHIP R	1.8K	J 1/16W

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Δ R1809			RK73EB2B1R0J	CHIP R	1	J 1/8W
Δ R1811			RK73EB2B1R0J	CHIP R	1	J 1/8W
R1901			RK73FB2A471J	CHIP R	470	J 1/10W
R1902			RK73FB2A182J	CHIP R	1.8K	J 1/10W
R1903,04			RK73FB2A821J	CHIP R	820	J 1/10W
SW1952			S68-0090-08	SWITCH		
SW1953	2A		S68-0092-08	SWITCH		
SW1954,55	2A		S64-0035-08	SWITCH		
SW1956	2A		S64-0029-08	SWITCH		
D1300,01			SB0209CP	DIODE		
D1401			SB00703Q	DIODE		
IC1101			IR3R55	IC		
IC1201			LR376484	IC		
IC1202			IX2474AF	IC		
IC1300			74ACT02F	IC		
IC1401			IX0253AW	IC		
IC1402			S29294A	IC		
IC1601			BA5984FP	IC		
IC1701			UDA1344	IC		
IC1702			NJM431U	IC(REGULATOR)		
IC1801			XC62EP32	IC		
Q1300			2SK2909	FET		
Q1301			2SK1473	FET		
Q1302			2SK2909	FET		
Q1303			2SK1473	FET		
Q1400,01			RNC1404	TRANSISTOR		
Q1402,03			RN2404	TRANSISTOR		
Q1500			RNC1407	TRANSISTOR		
Δ Q1700			2SC2412KR	TRANSISTOR		
Q1701			RNC1404	TRANSISTOR		
Δ Q1702			2SA1162G	TRANSISTOR		
Q1800			RNC1407	TRANSISTOR		
Q1801			2SA1162G	TRANSISTOR		
Q1802			RNC1407	TRANSISTOR		
Δ Q1803			RN1406	TRANSISTOR		
Q1804,05			2SA1314C	TRANSISTOR		
Q1806			RN1406	TRANSISTOR		
MD MECHANISM (D40-1602-05)						
201	2B		J90-0857-08	GUIDE		
202	3A		J90-0858-08	GUIDE		
203	2B		A13-3122-08	FRAME		
204	3B		A10-3416-08	CHASSIS ASSY		
205	1A		J19-5899-08	HOLDER		
206	2A		D10-3789-08	SLIDER ASSY		
207	3B		D10-3790-08	ARM		
208	1A		D10-3791-08	ARM		
209	2A		D10-3853-08	ARM ASSY		
210	1A		D10-3793-08	SLIDER		
211	1A		D10-3794-08	ARM		
212	1A		D10-3795-08	SLIDER		
213	1A		G01-4046-08	SPRING		
214	3A		G01-4047-08	SPRING		
215	2A		G01-3972-08	SPRING		
216	1A		G01-3974-08	SPRING		

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PARTS LIST

RXD-M31MD

* New Parts
Parts without **Parts No.** are not supplied.
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Teile ohne **Parts No.** werden nicht geliefert.

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
217	2A		G01-4110-08	SPRING		
218	1A		G01-3976-08	SPRING		
219	2A		G02-1651-08	FLAT SPRING		
220	2B		G02-1652-08	FLAT SPRING		
221	2A		G01-3973-08	SPRING		
222	2A		D13-1859-08	GEAR		
223	2A		D13-1860-08	GEAR		
224	3A		D13-1861-08	GEAR		
225	2A		D13-1862-08	GEAR		
226	2A		D13-1863-08	GEAR		
229	1A		D13-1864-08	GEAR		
230	1A		D14-0394-08	ROLLER		
231	2A		D19-0312-08	LEAD SCREW		
232	2A		D21-1895-08	SHAFT		
233	2A		D10-3699-08	ROD		
234	3A		D10-3702-08	ROD		
235	1B		A01-3552-08	METALLIC CABINET		
236	3B		A01-3553-08	METALLIC CABINET		
237	1B		J02-1439-08	INSULATOR		
238	2B		J02-1440-08	INSULATOR		
239	1B		G11-2380-08	CUSHION		
242	2B,1H		E35-2309-08	FLAT CABLE		
245	1A		F19-1083-08	SHEET		
246	2B		F19-1084-08	SHEET		
BB			N09-3426-08	SCREW	M1.7X7.5	
BD			N09-3115-08	SCREW	M1.4X2.2	
BF			N09-3347-08	SCREW	M1.7X2.5	
BG			N09-3352-08	SCREW	M1.7X8.9	
BK			N09-3350-08	SCREW	M2.0X4.0	
BL			N09-3351-08	SCREW	M1.7X3.0	
DMMD	3A		T42-0904-08	MOTOR ASSY	M901	
FMMD	3A		T42-0905-08	MOTOR ASSY	M902	
LMMD	3A		T42-0906-08	MOTOR ASSY	M903	
PUMD	2A		T25-0080-08	PICKUP		
RHMD	1A		T30-0017-08	RECORD HEAD		
CASSETTE MECHANISM (D40-1601-05)						
301	1D		A10-3157-08	CHASSIS BASE		
305	1D		D01-0119-08	FLYWHEEL ASSY LEFT		
306	1E		D01-0205-08	FLYWHEEL ASSY RIGHT		
331	2D		D19-0310-08	CLUTCH ASSY		
369	2C		N87-2004-46	HEAD PCB SCREW		
370	2C		N87-2006-46	SCREW		
374	1E		N19-0904-08	WASHER		
375	1D,1E		N19-0905-08	WASHER		
378	2D		N19-1214-08	WASHER		
380	2D		N29-0205-04	E RING		
389	2E		T94-0225-08	SOLENOID SHAFT		
391	1E		W02-2688-08	ELECTRIC UNIT B		
BM	1E		D16-0371-08	MAIN BELT		
BR	2E		D16-0372-08	REEL BELT		
MM	1D		T42-0933-08	MAIN MOTOR ASSY		
PF	2D		D14-0399-08	PINCH ROLLER ASSY (FWD)		
PR	1C		D14-0400-08	PINCH ROLLER ASSY (RVS)		

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
RPEH	2C		T39-0038-08	REC/PLAYBACK/ERASE HEAD		
CD-MECHANISM						
Δ PU			T25-0061-08	PICKUP (KSS-213C)		
SPEAKER (LS-M31(M))						
-		*	A05-0264-08	SPEAKER SYSTEM SP381-04-0266A	MET	
-		*	A05-0267-08	SPEAKER SYSTEM SP381-04-0266C	KP	
-		*	A21-3820-08	FRONT PANEL 106-03310-072		
-			B05-0917-08	GRILLE ASSY		
-		*	T03-0506-08	TWEETER 029-05006-412		
-		*	T10-1007-08	WOOFER 029-10006-412		

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SPECIFICATIONS

Main unit

[Amplifier section]

Effective output power during STEREO operation
1 kHz, 10 % T.H.D., at 6 Ω 15 W + 15 W
Rated output power during STEREO operation
Other countries
1 kHz, 0.7 % T.H.D., at 6 Ω 12 W + 12 W
Frequency response
AUX 20 Hz~20 kHz (0 dB ~ -3dB)

[Tuner section]

FM tuner section

Tuning frequency range 87.5 MHz ~ 108 MHz

MW (AM) tuner section

Tuning frequency range
9 kHz step 531 kHz ~ 1,602 kHz
10 kHz step 530 kHz ~ 1,610 kHz

[MD recorder section]

Laser Semiconductor laser
Recording method Field modulation overwrite method
D/A Conversion 1 Bit
Wow & flutter Less than unmeasurable limit

[CD player section]

Laser Semiconductor laser
D/A Conversion 1 Bit
Frequency response 20 Hz~20 kHz
Wow and flutter Less than unmeasurable limit

[Cassette deck section]

Track 4-track, 2-channel stereo
Recording system AC bias system
(Frequency: 65 kHz)

Heads

Playback / recording head 1
Erasing head 1

Motors 1

Wow and flutter 0.2 % (W.R.M.S.)

Fast winding time Approx. 100 seconds
(C-60 tape)

[General]

Power consumption 36 W
Dimensions W : 180 mm
H : 257 mm
D : 275 mm
Weight (net) 5.1 kg

Speakers

Enclosure Book shelf type, magnetically shielded
Speaker configuration
Woofer 100 mm, cone type
Tweeter 50 mm, cone type
Impedance 6 Ω
Maximum input level 20 W
Dimensions W : 150 mm
H : 255 mm
D : 240 mm
Weight (net) 2.4 kg(1 piece)



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

- Sufficient performance may not be exhibited at extremely cold locations (where water freezes).

RXD-M31MD

Note:

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

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