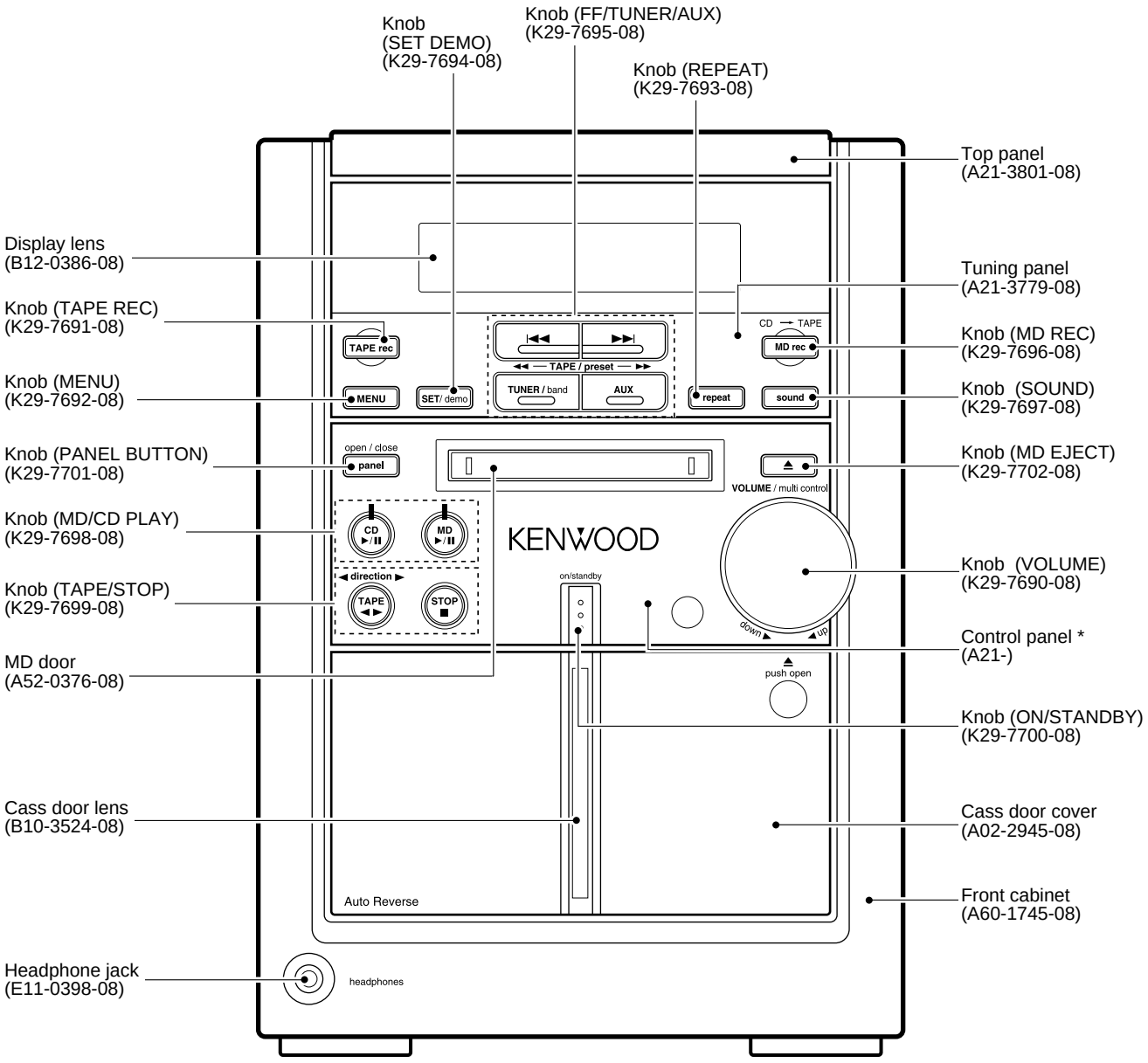
MICRO HiFi COMPONENT SYSTEM

RXD-M31MD/ LS-M31(M)

SERVICE MANUAL

(HM-381MD)

KENWOOD



*** 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

70%

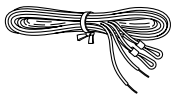
RXD-M31MD

CONTENTS / ACCESSORIES / CAUTIONS

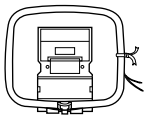
Contents

Accessories

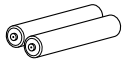
FM indoor antenna (1)
(T90-0801-05)



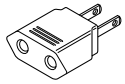
Loop antenna (1)
(T90-0846-08)



Batteries (R6/AA) (2)

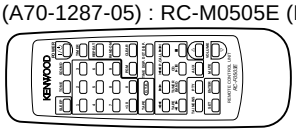


* AC plug adaptor (1)
(E03-0115-05)



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

Remote control unit (1)
(A70-1241-05) : RC-F503 (K,P,M)
(A70-1287-05) : RC-M0505E (E,T)



Battery cover (A09-1114-08)

System configuration

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

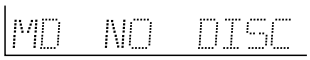
※ Refer number for LS-M31(M), refer to parts list on page 52.

Cautions

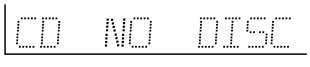
Note related to transportation and movement

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

❶ Remove the CD or MD from the unit.
❷ Press the ►/II key of the MD.



❸ Press the ►/II key of the CD.
❹ Wait for some time and verify that the display becomes as shown in the figure.



❺ Wait a few seconds and turn the unit OFF.

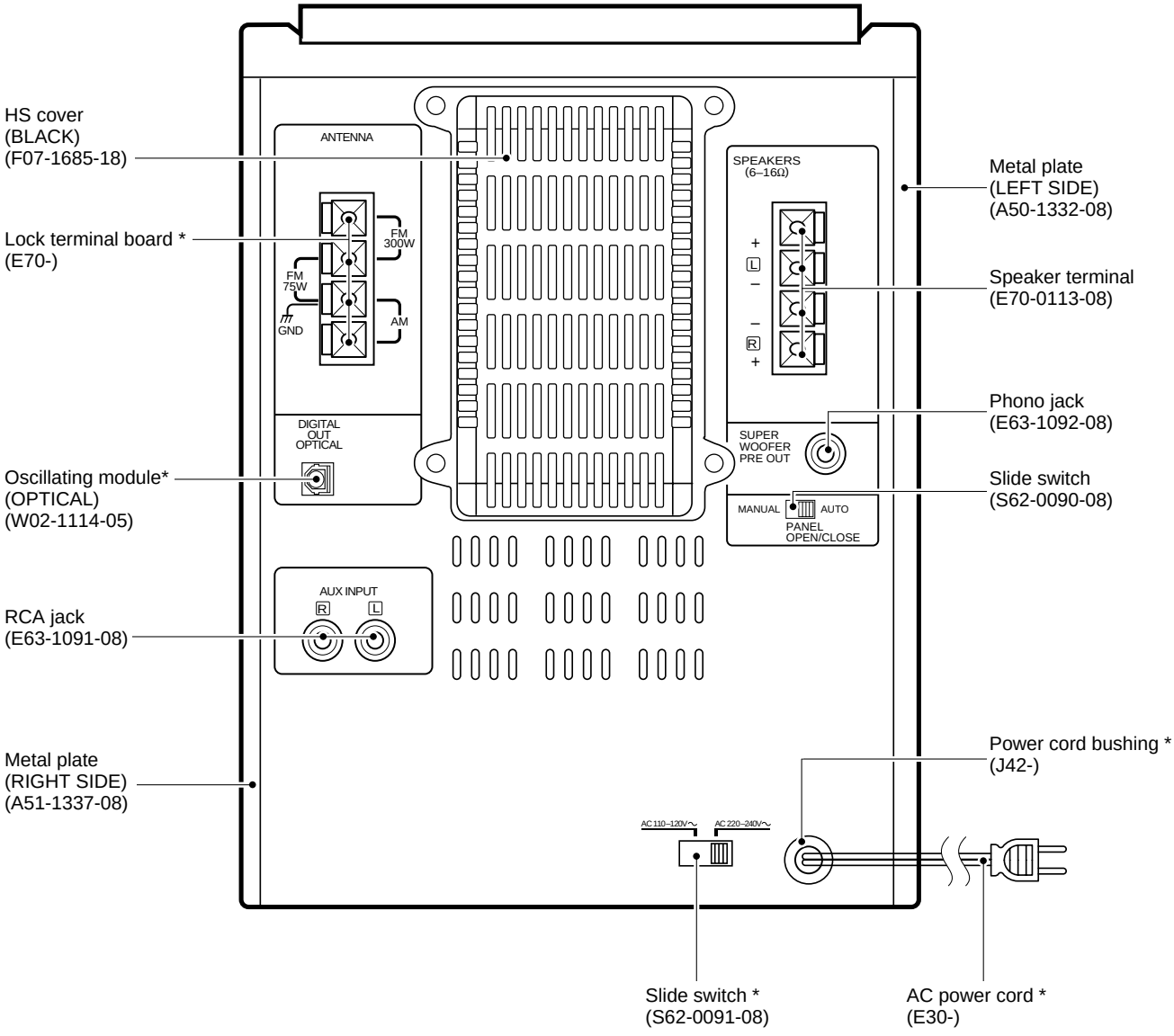
Operation to reset

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.

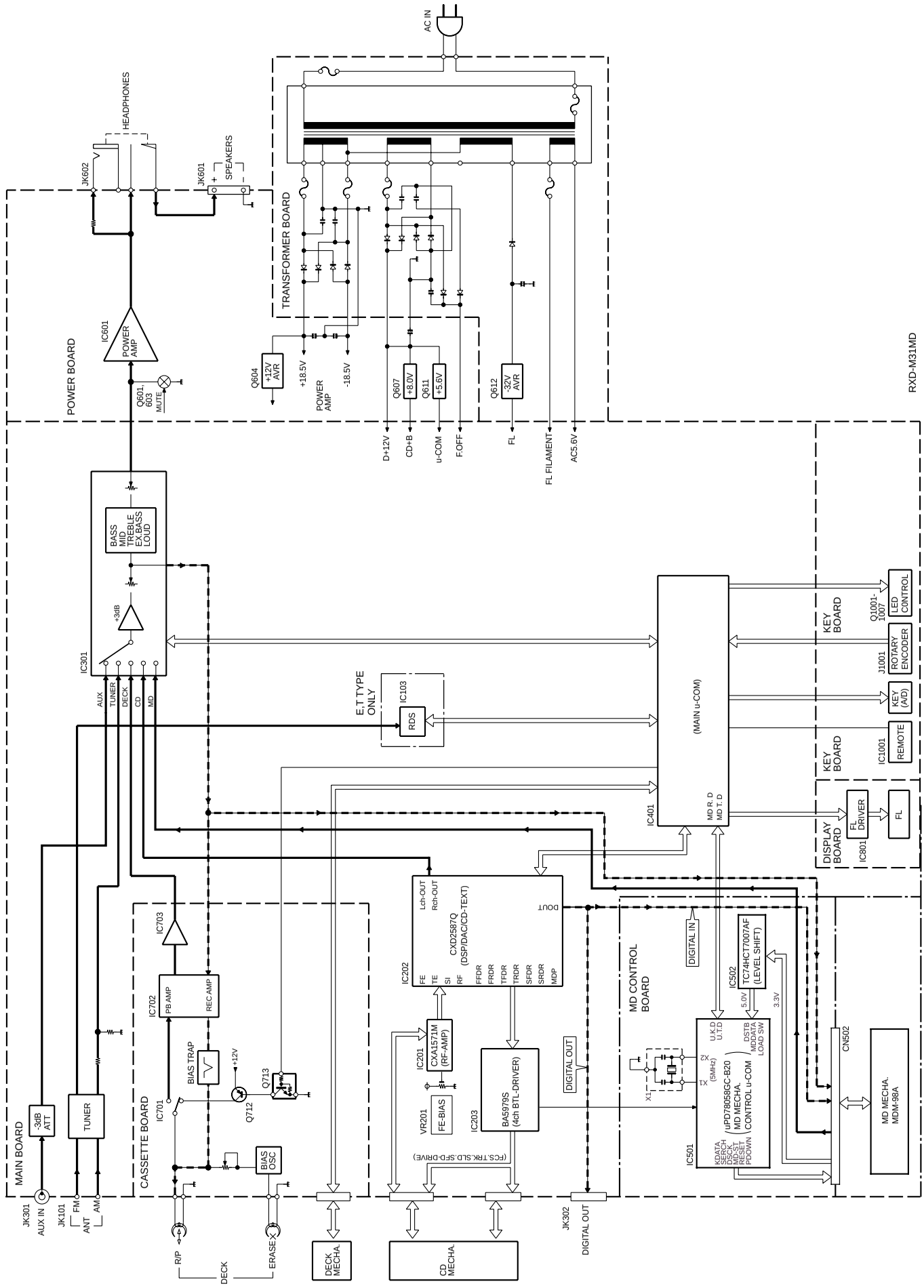
Unplug the power cord from the power outlet then, while holding the “set/demo” key depressed, plug the power cord again.

EXTERNAL VIEW



*** Refer to parts list on page 42.**

BLOCK DIAGRAM



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
	※AUX INPUT	0
	※BASS	0
	※TREBLE	0
TUNER	※BAND	FM
	※LAST f	LIMIT
	※LAST Pch	— —
	※AUTO/MONO	AUTO
	※Pch	TEST f
CLOCK TIMER	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
	SLEEP	OFF
CD	PLAY MODE	TRACK
	REPEAT	OFF
	RANDOM	OFF
	PLAY MODE	STOP
DECK	※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

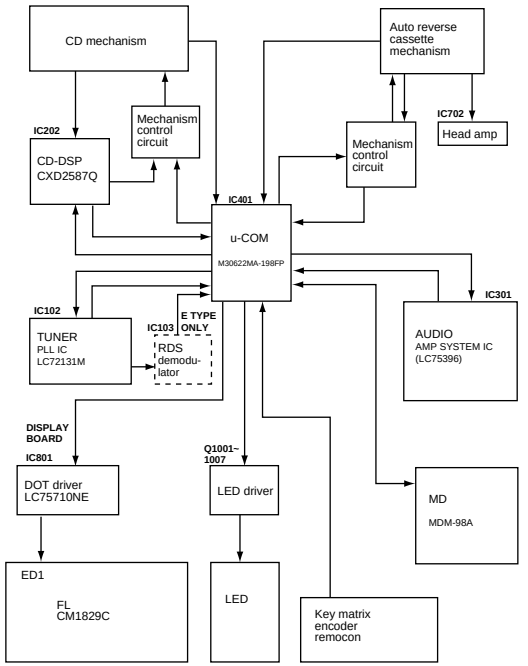
(DSW4=50pin, DSW3=49pin, DSW2=48pin)

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 I◄◄	CD ►/II	MD ►/II	MD rec (AUX)	–	KEY OFF
KEY3 91PIN	S. UP ►►I	EJECT ▲	TUNER/band ◄◄	AUX ►►	TAPE	TAPE REC	KEY OFF

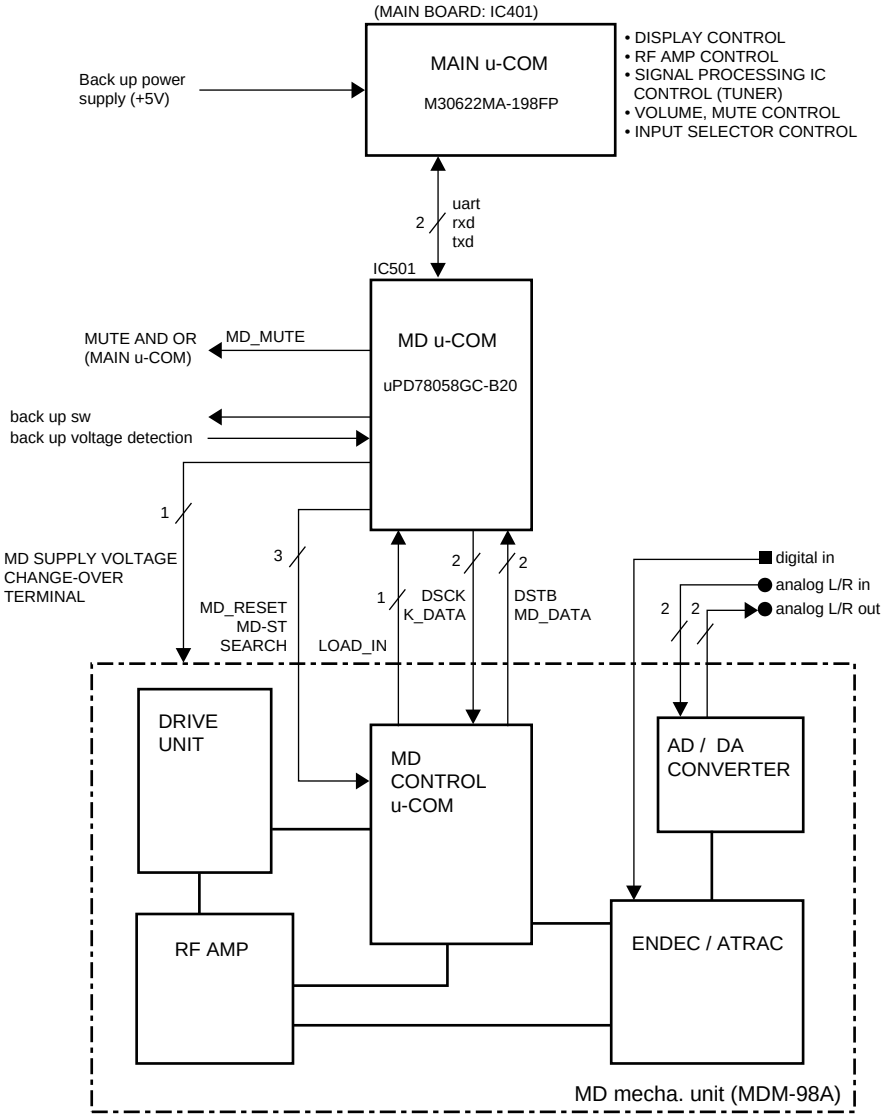
4-3 Pin description of main microprocessor

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 detetor 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 choise mode.	65	66	
				H	H	REC
66	A/B-1	O	Deck activity choise mode.	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	-	-	No used.
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		
		VOLUME (VOLUME15)	INPUT (INPUT 0)	BALANCE (CENTER)
I◄◄	P.CALL : DOWN	VOLUME 1	INPUT-6(dB)	-
■	P.CALL : 10 STEP CHANGEOVER →10→20→30→40→01→	VOLUME 40	INPUT 0 (dB)	-
►►I	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

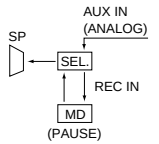
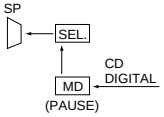
(b) 4-sec REC
- If the REC key is pushed, the system record for 4sec. Then, it rewinds to the REC starting position and plays back automatically.
- If the REC key is pushed during the 4-sec REC operation, the system records further for 4-sec, then returns to the starting position of the first 4-sec REC 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

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.

No.	Contents of TEST mode	Keys	Operation & Indication	RemarKs
1	Analog through test mode	SOUND	• 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	• 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.)

STEP Display
Ⓐ MD
↓
Ⓑ EJECT
↓
Ⓒ AUT YOBI
↓ Change to step Ⓓ if press <MD STOP> key. Return to Ⓒ if press <MD REC>key.
Ⓓ tsm ○○○○e○○ : Test mode STOP state
○○○○: MD microprocessor version.

* 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.

AUTO pre-adjustment (AUT YOBI) → AUTO adjustment (AUTO AJST) → RESULT SUB (RST YOBI) → RESULT (RESULT) → MANUAL pre-adjustment (MNU YOBI) → MANUAL adjustment (MNU AJST) → EEPROM setting (EEPROM SET) → AUTO pre-adjustment

( ): Display

• 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	• 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	• 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*	• 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)*	• The set value (after calculation) is indicated. • The set value is changed manually (in servo OFF state).
5. MANUAL pre-adjustment mode*	• 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*	• Focus and tracking signal ATT manual adjustment is performed.
7. EEPROM setting mode*	• Don't adjust.
8. TEST-PLAY mode*	• Continuous playback from the specified address is performed. • C1 error rate measurement,
9. TEST-REC mode*	• 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*	• 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. End of adjustment	The slide moves to the innermost periphery, and automatic pre-adjustment is started. • 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.	[✳✳✳ : _ _ _ _ _ _]
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. End of adjustment	The slide moves to the innermost periphery, and automatic adjustment is started. • 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.	[✳✳✳ : _ _ _ _ _ _]
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 5	Continuous playback (groove section)		[a□□□□c○○○○]
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

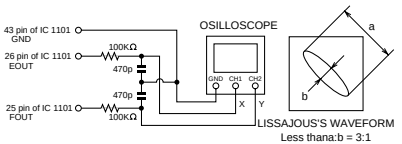


Figure 1-1 Optical Pickup Grating Deviation Measuring Method

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

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

2. Jitter adjustment and checking method

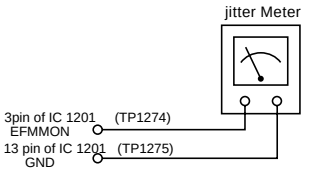


Figure 1-3 Jitter connection diagram

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.

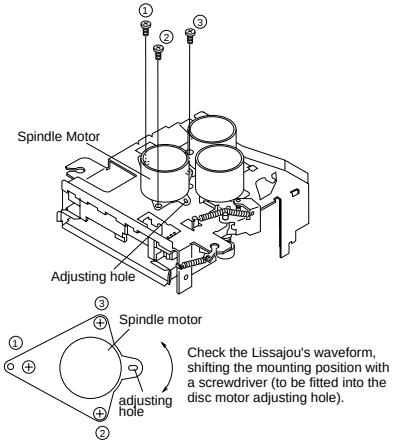


Figure 1-2

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
SKIP UP	CD 5 06	Read TOC → play

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

7. MD mechanism error message

DISPLAY	DESCRIPTION
BLANK DISC	Non Recorded disc
CAN'T COPY	Inhibit to record by SCMS
CAN'T EDIT	Inhibit to edit by MD standard
CAN'T 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

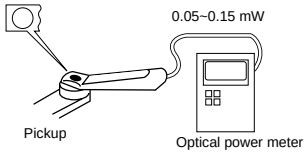
No.	ITEM	INPUT SETTING	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
1	TUNED LEVEL	(A) 98 MHz, 31.2dBf (ANT INPUT) 1kHz, ±40 kHz DEV	–	MONO 98.0 MHz	VR101	Adjust VR1 and stop at the point where ED1 (TUNED) goes ON.	

Adjustment of CD player

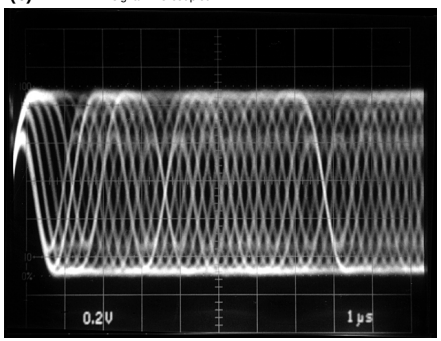
No.	ITEM	INPUT SETTING	OUTPUT SETTING	PLAYER SETTING	ALIGNMENT POINT	ALIGN FOR	FIG.
TEST MODE : While pressing the [CD PLAY] key, plug the AC power cord into the AC outlet.							
1	LASER POWER	–	Set the senor section of the optical power meter on the pickup lens.	Press the "PLAY" key to check that the 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



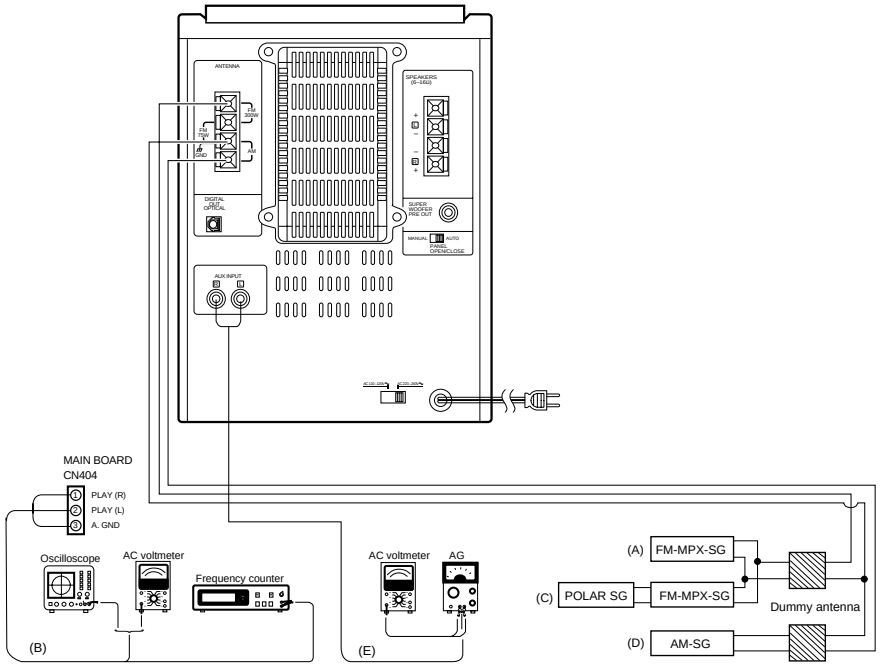
(b) RF signal : AC coupled



- 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.

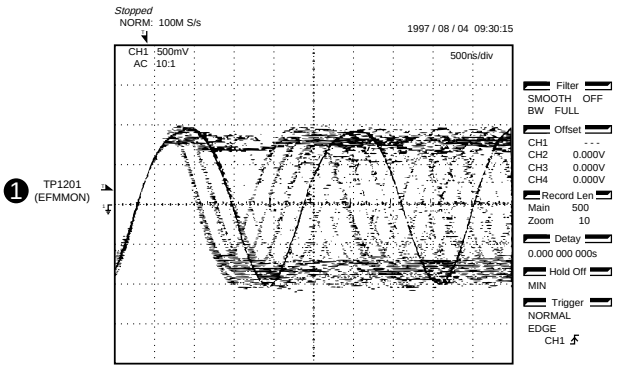
Adjustment of cassette deck

NO.	ITEM	INPUT SETTING	OUTPUT SETTING	CASSETTE TAPE DECK SETTING	ALIGNMENT POINTS	ALIGN FOR	FIG.
Unless otherwise specified, set the respective switches as follows: **0dBs = 0.775V** **TAPE : NORMAL** **DOLBY : OFF** **I Cassette mechanism unit (Adjustment of the REC / PLAY head)**							
(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 ling.	
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.	

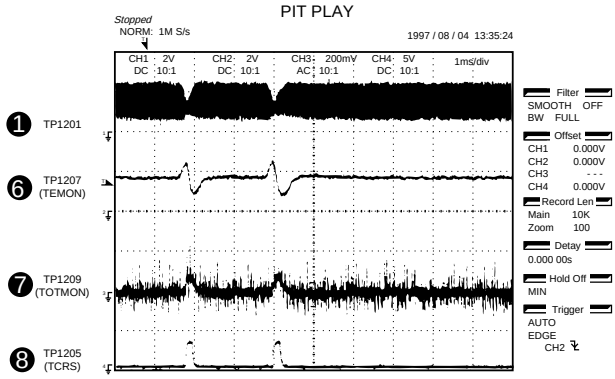


WAVE FORM

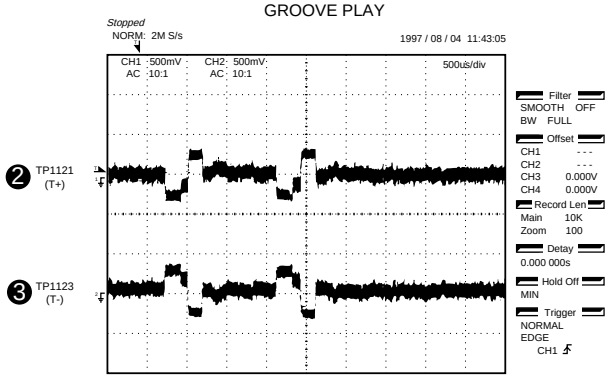
PLAY



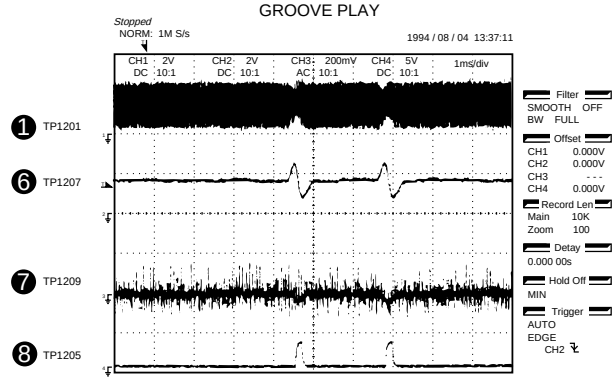
PIT PLAY



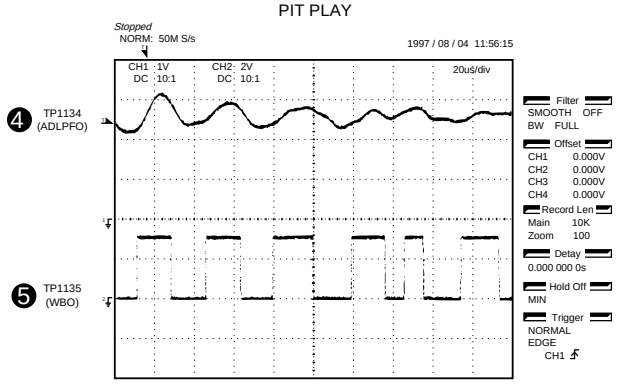
GROOVE PLAY



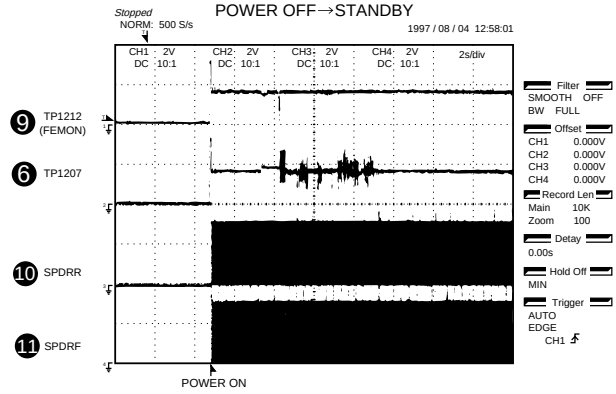
GROOVE PLAY



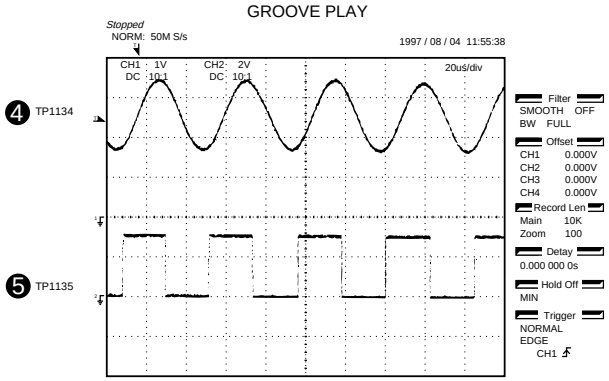
PIT PLAY



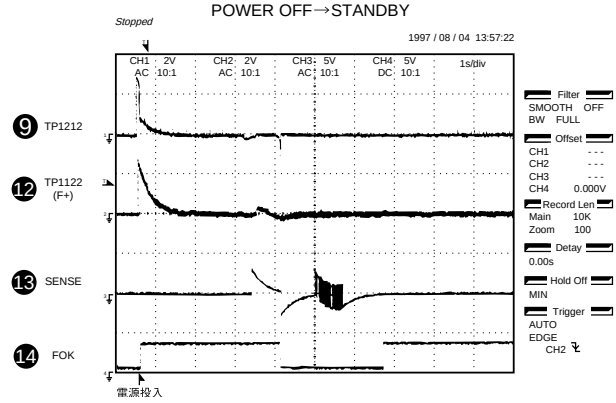
POWER OFF→STANDBY



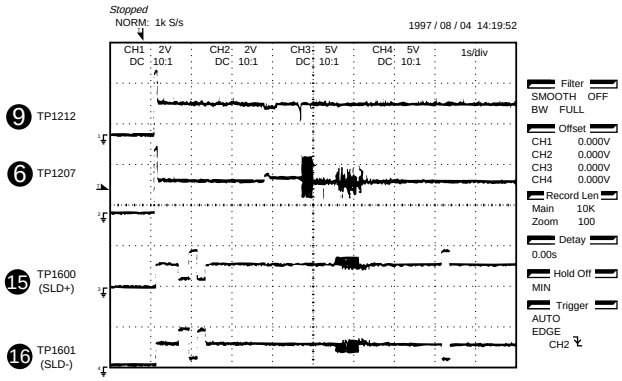
GROOVE PLAY



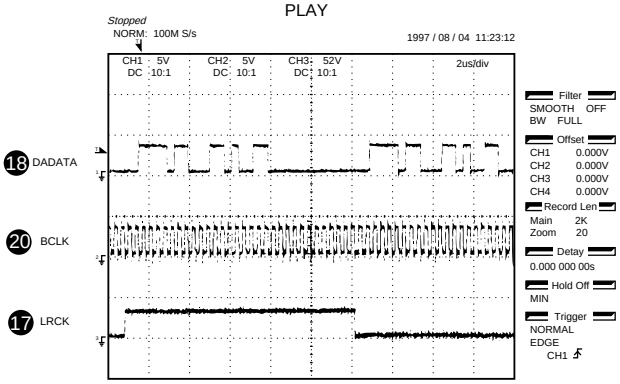
POWER OFF→STANDBY

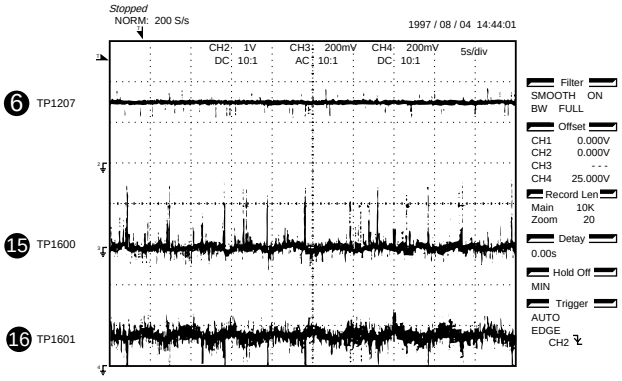


WAVE FORM

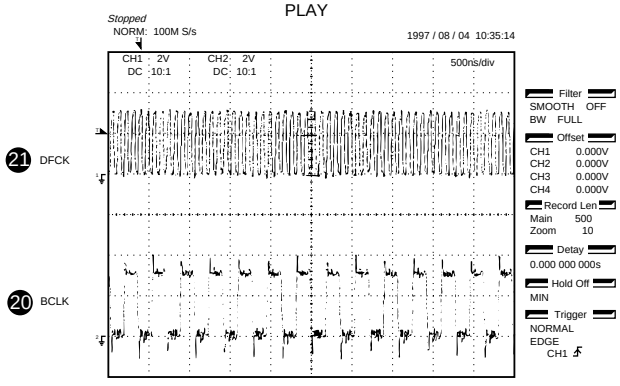


PLAY

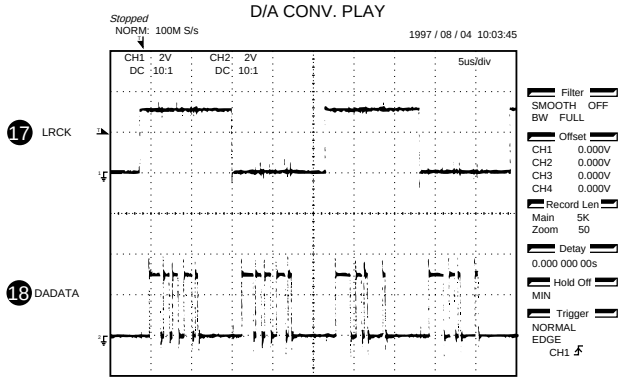




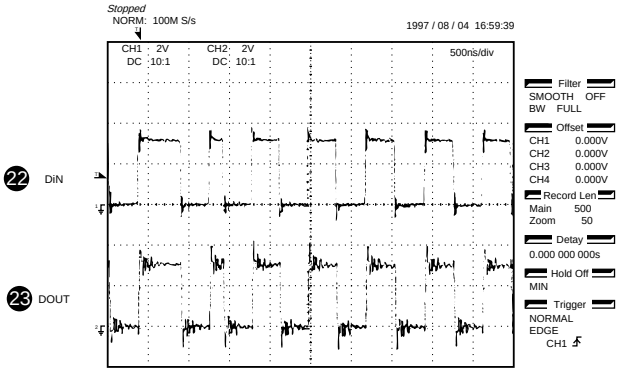
PLAY



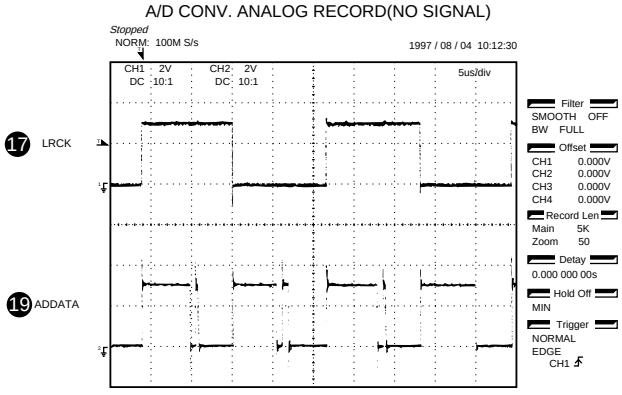
D/A CONV. PLAY



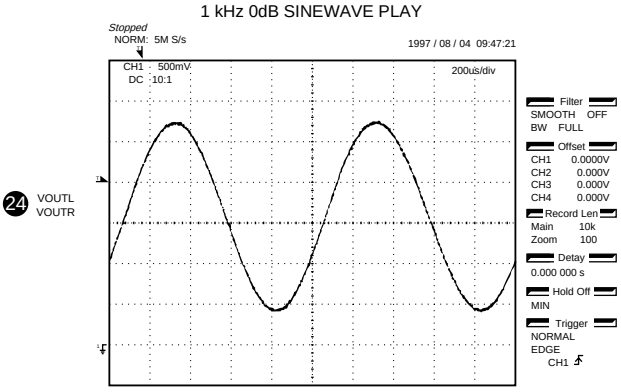
DIGITAL REC



A/D CONV. ANALOG RECORD(NO SIGNAL)



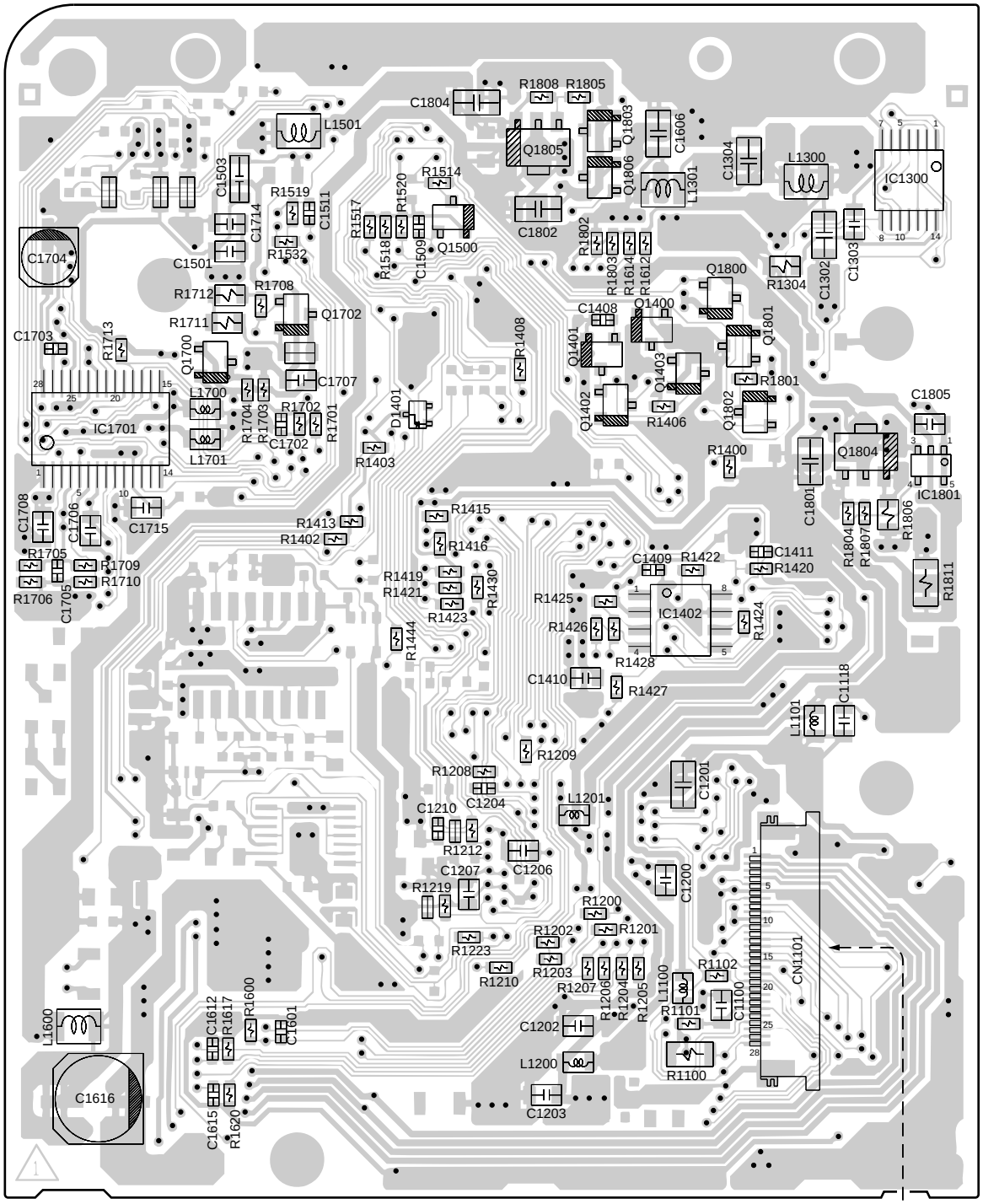
1 kHz 0dB SINEWAVE PLAY

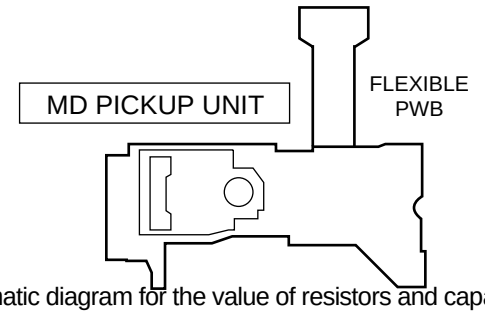


PC BOARD (Component side view)

MD MAIN PWB-A (TOP VIEW)

● **Through hole.**

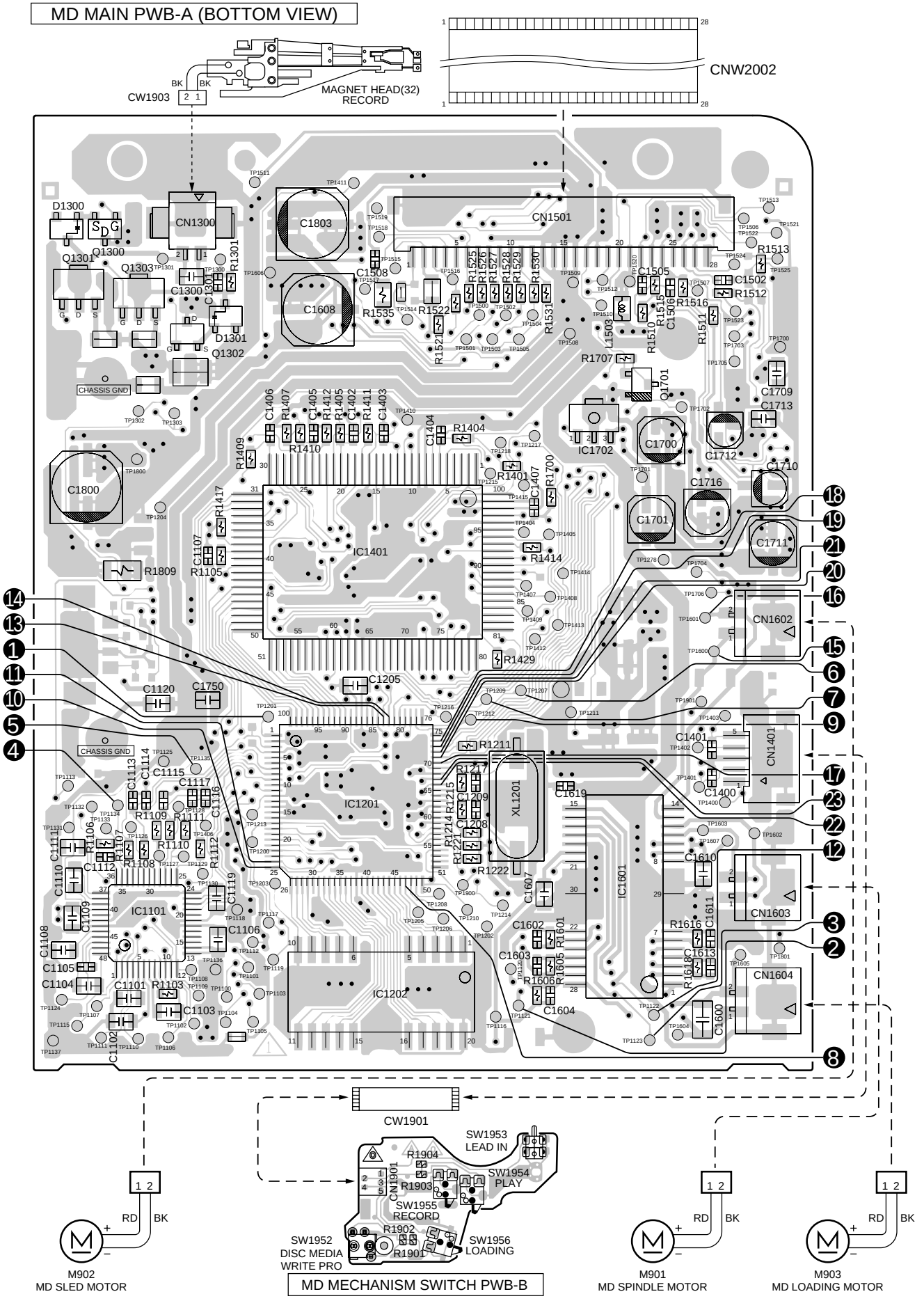




Refer to the schematic diagram for the value of resistors and capacitors.

PC BOARD (Component side view)

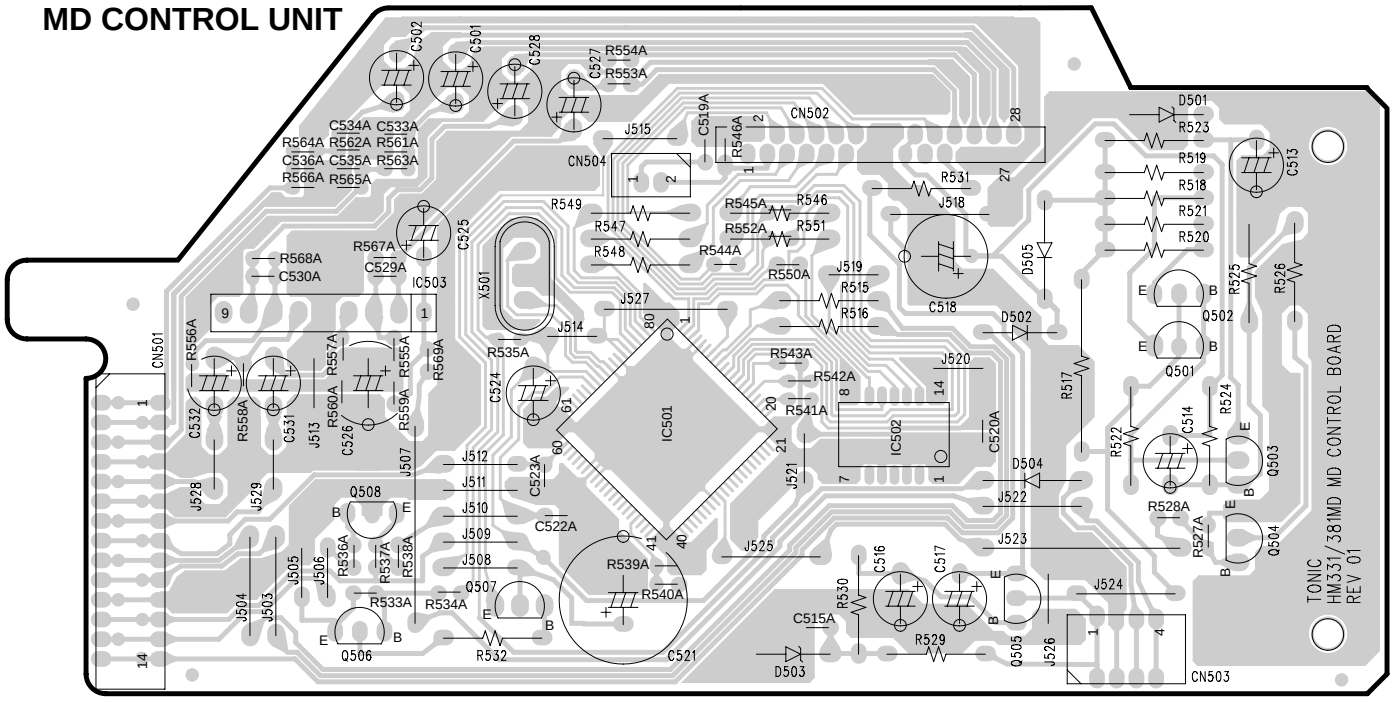
MD MAIN PWB-A (BOTTOM VIEW)



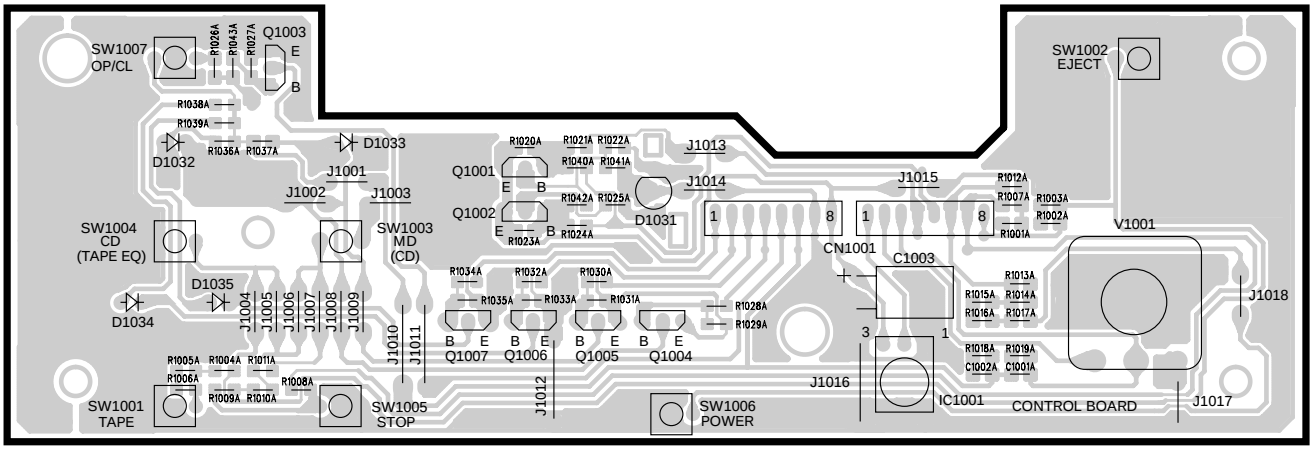
The numbers ❶ to ⑲ are waveform numbers shown in page 12,13.
Refer to the schematic diagram for the value of resistors and capacitors.

PC BOARD (Component side view)

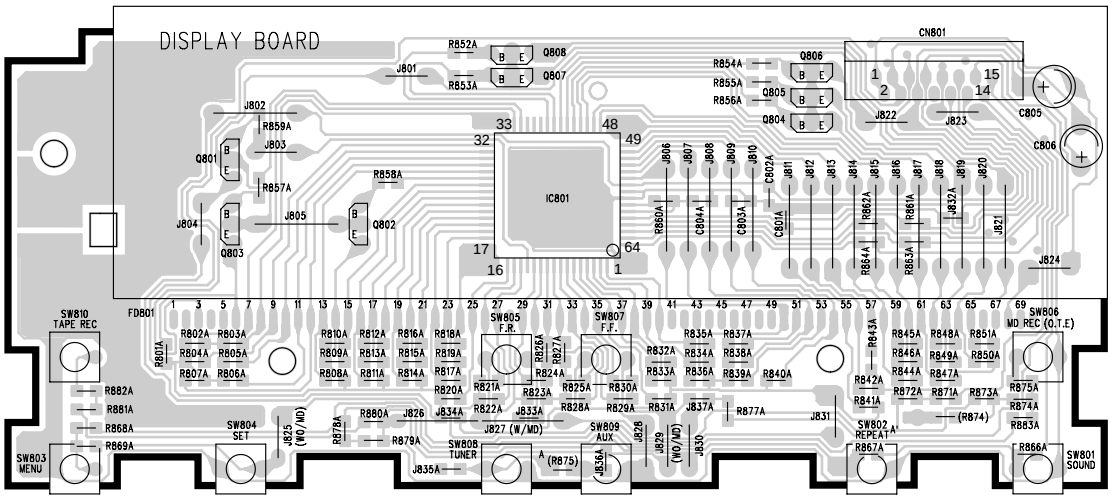
MD CONTROL UNIT



KEY CONTROL UNIT



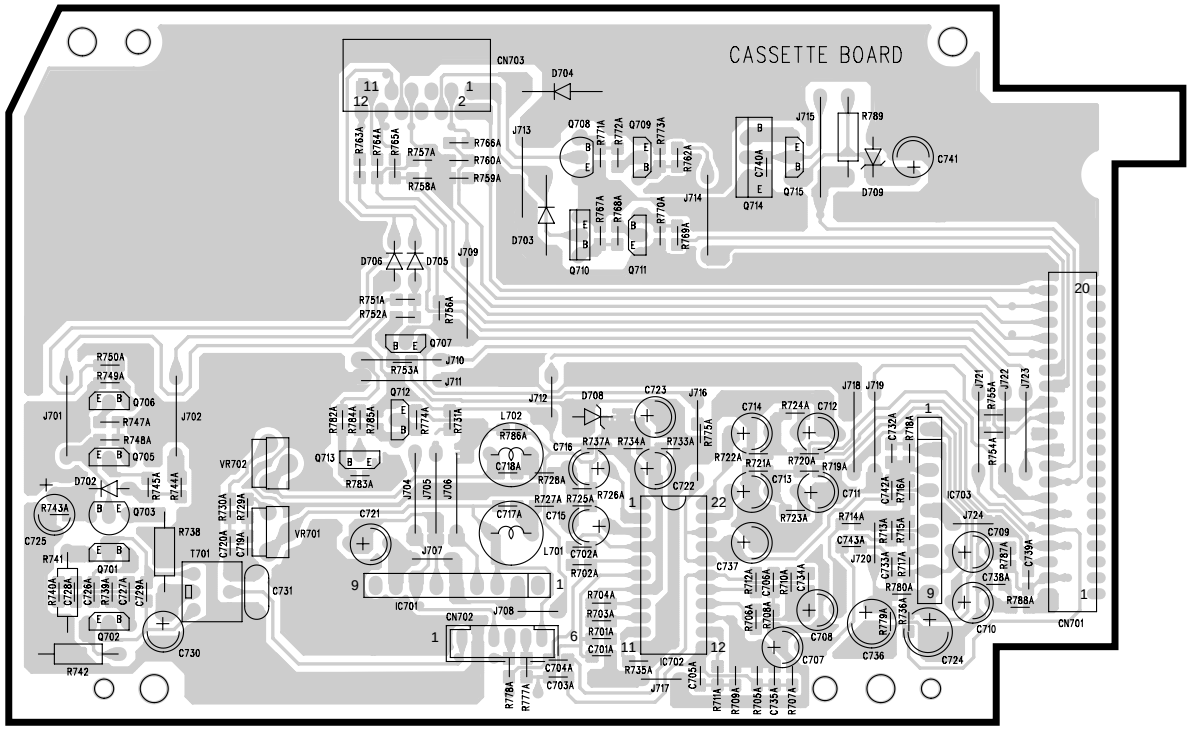
DISPLAY UNIT



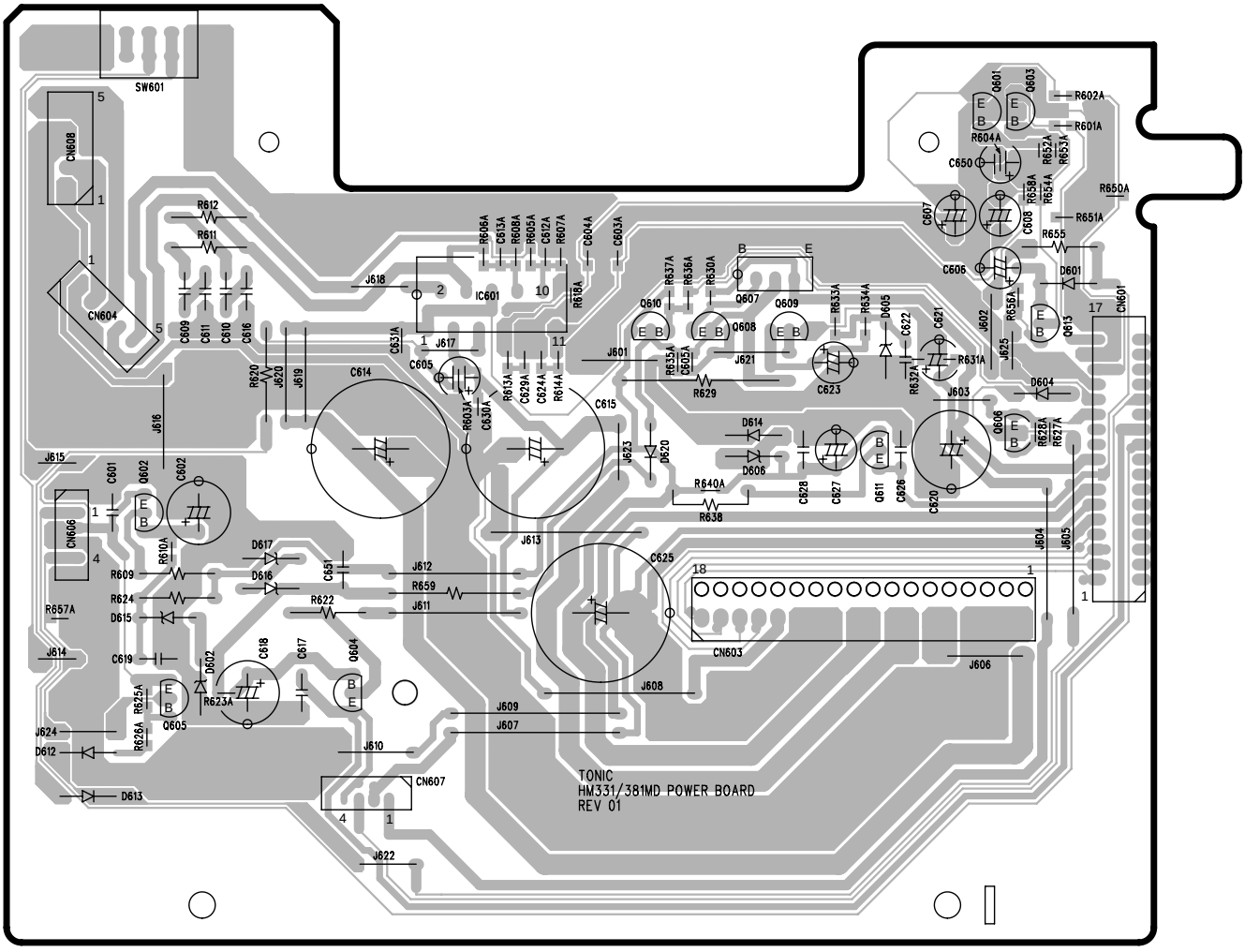
Refer to the schematic diagram for the value of resistors and capacitors.

PC BOARD (Component side view)

CASSETTE DECK UNIT



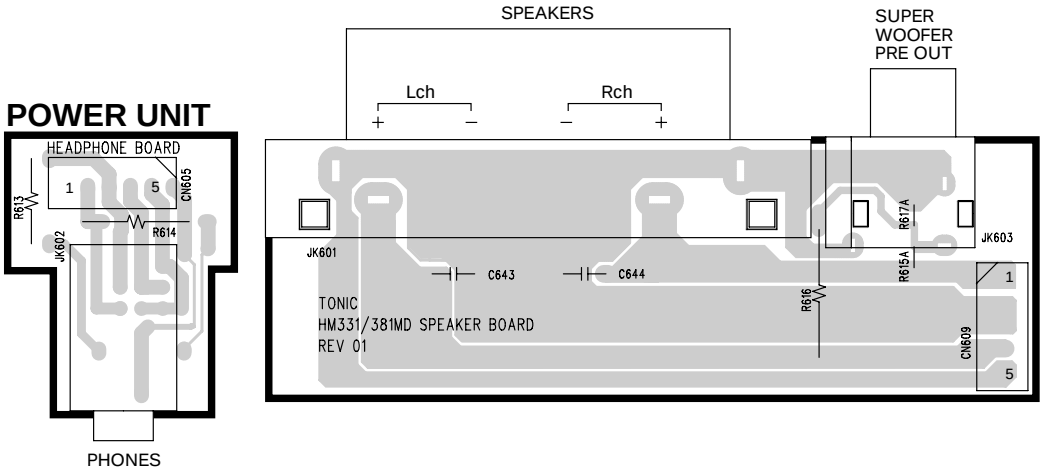
POWER UNIT



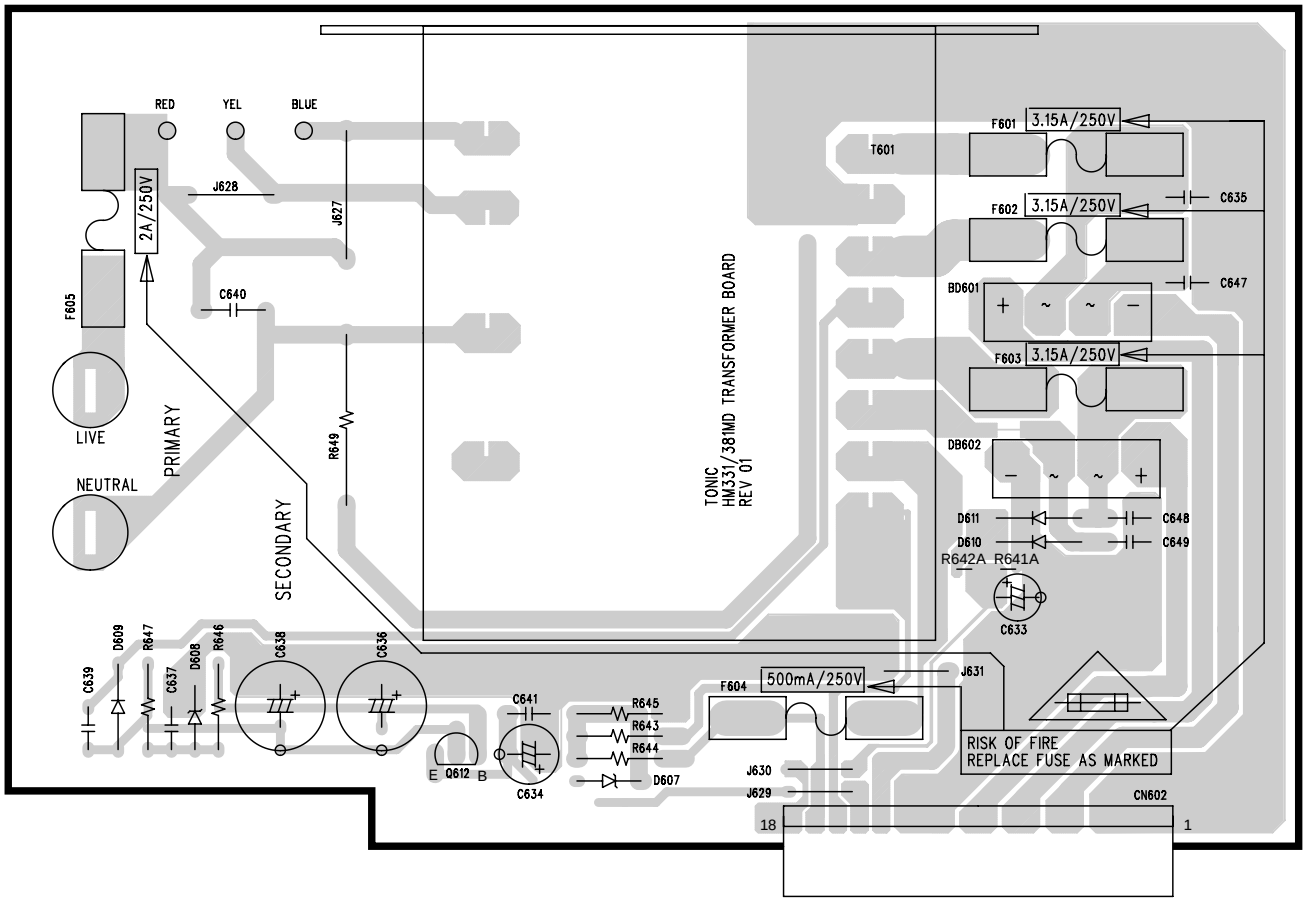
Refer to the schematic diagram for the value of resistors and capacitors.

PC BOARD (Component side view)

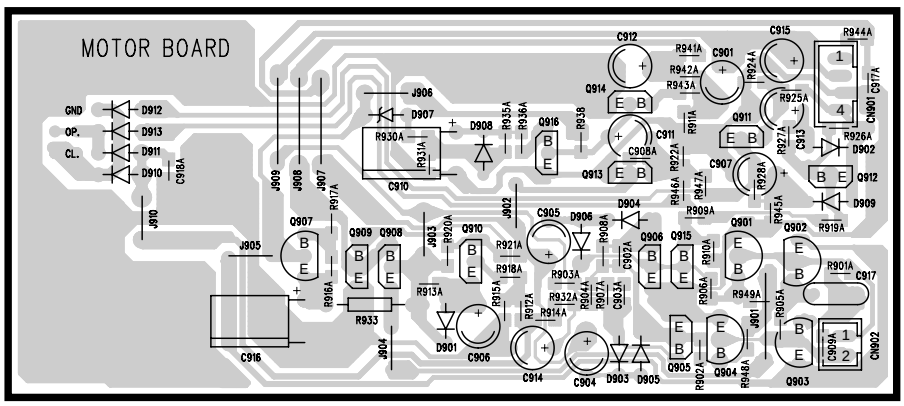
POWER UNIT



POWER UNIT

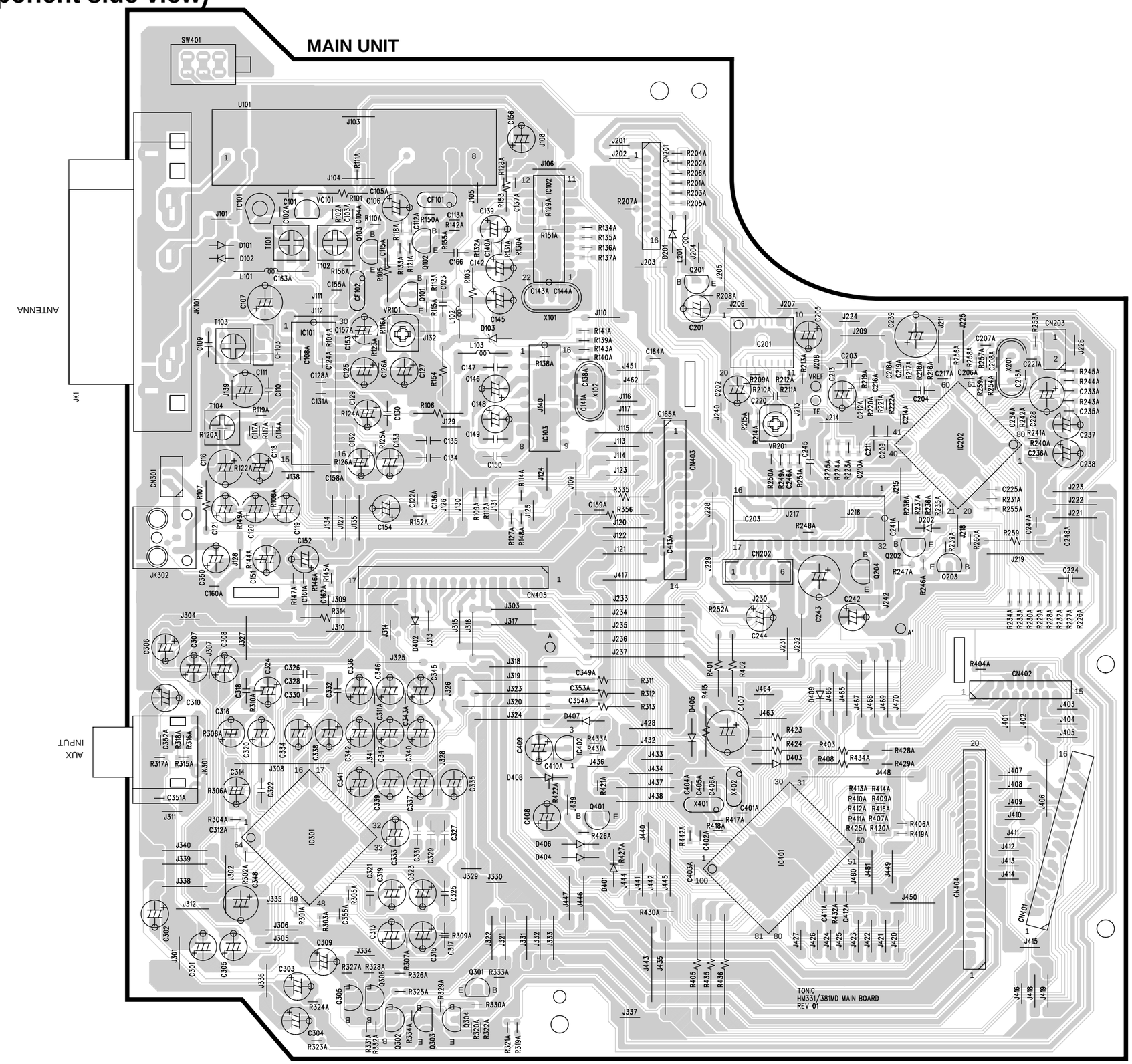


MAIN UNIT



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

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	:	S29294A
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

DIGITAL LINE
SIGNAL LINE
GND LINE
+B LINE

MECHA. (SW PWB)
CN1901
CW1901
WRITE PRO
SW1951-A
DISC ID
SW1952-B
LEAD IN
SW1953
PLAY
SW1954
REC
SW1955
LOADING
SW1956

MD MECHANISM
(D40-1602-∗5) MDM-98A

REC HEAD
CW1903
CN1300

HEAD DRIVER
IC1300

PICKUP
CN1101
MECHA. (MOTOR PWB)
CN1602
CN1603
CN1604
FEED MOTOR
DISC MOTOR
LOADING MOTOR

IC1101
RF AMP

LOGIC
BIAS

IC1201
DSP
SERVO
EFM/ACIRC/ATRAC
ENCODER/DECODER

IC1202
4M BIT
D-RAM

Wave form	Pin No.
①	1
⑥	77
⑦	76
⑧	47
⑨	75
⑩	25
⑬	83
⑭	82
⑰	70
⑱	74
⑲	73
⑳	71
㉑	72
㉒	66
㉓	67

DIGITAL IN
DIGITAL OUT
DIGITAL REC
DIGITAL IN

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.

(D40-1602-∗5) MDM-98A

CN1401 LEAD IN, HINF, GND, LOADING, MINF

CN1501 R OUT, AA.GND, L OUT, AD.GND, R IN, AA.GND, L IN, AVCC, LOAD SW, PSWCK, DVDD, DVDD, D. GND, D. GND, D. GND, D. GND, DSTB, MODATA, KDATA, SERCH, DSCK, MD-ST, RESET, PDOWN, BUCKUP, DIGIN, GND, DIGOUT

MD CONT. CN502 3/5 A

IC1401 MD-MECHA u-COM

IC1701 AD/DA CONVERTER

IC1702

IC1801

IC1402 E²PROM

IC1601 MOTOR DRIVER

ANALOG OUT

ANALOG IN

+3.2V AVR

Q1400 Q1401 Q1402 Q1403 Q1500 Q1701 Q1702 Q1800 Q1801 Q1802 Q1803 Q1804 Q1805 Q1806

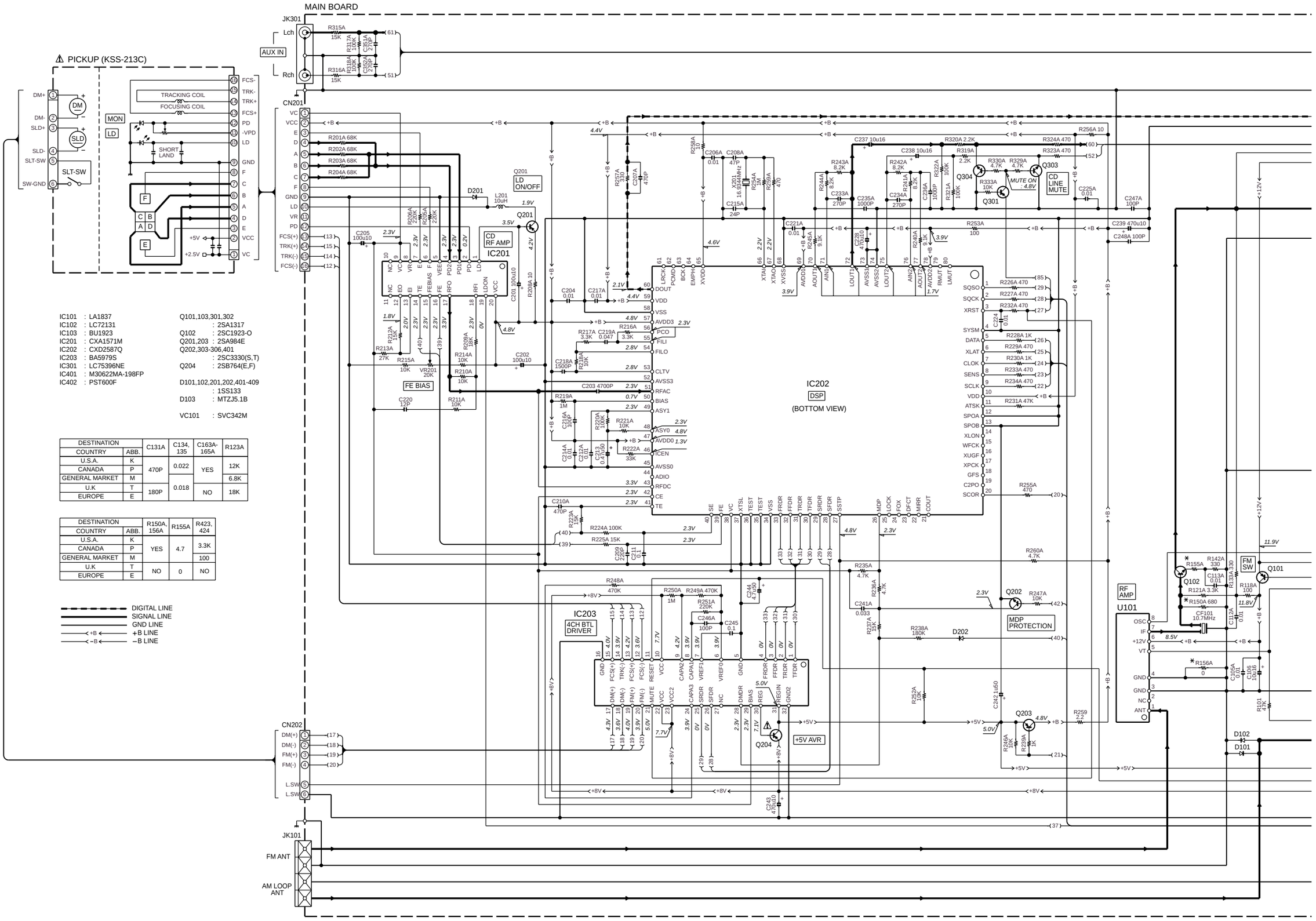
D1401

RXD-M31MD (1/5)

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

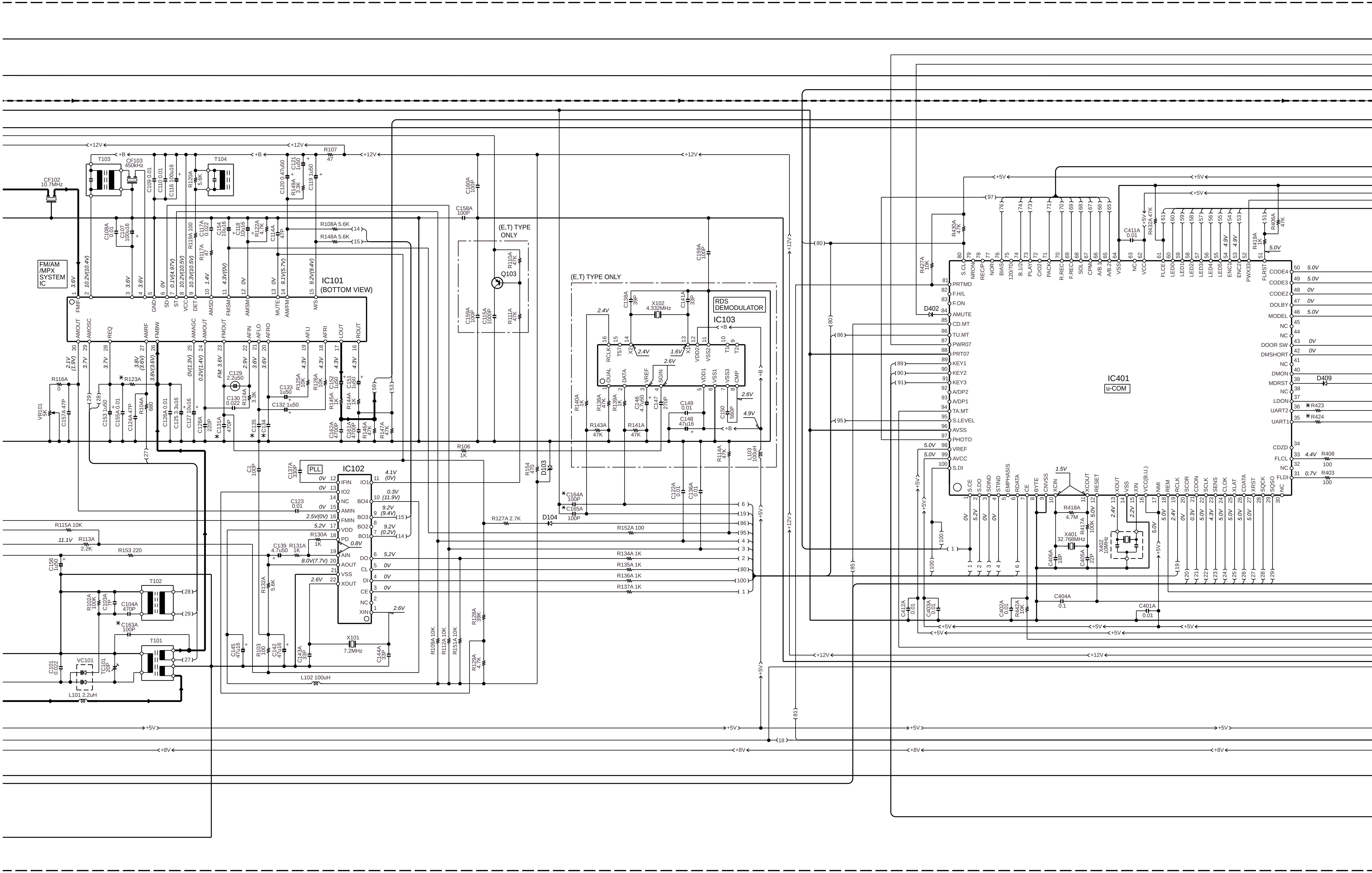
DESTINATION		C131A	C134, 135	C163A-165A	R123A
COUNTRY	ABB.				
U.S.A.	K	470P	0.022	YES	12K
CANADA	P				
GENERAL MARKET	M		0.018	NO	6.8K
U.K	T	180P			18K
EUROPE	E				

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

DIGITAL LINE
SIGNAL LINE
GND LINE
+B LINE
−B LINE

AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN

MAIN BOARD



FM/AM /MPX SYSTEM IC
IC101 (BOTTOM VIEW)
IC102
PLL
IC103
RDS DEMODULATOR
(E,T) TYPE ONLY
(E,T) TYPE ONLY
IC401
u-COM
Q103
T103
T104
T102
T101
CF102 10.7MHz
CF103 450kHz
X101 7.2MHz
X102 4.332MHz
X401 32.768MHz
X402 10MHz
VC101
L101 2.2uH
L102 100uH
L103 100uH
D104
D103
D402
D409
R107 47
R106 1K
R108A 5.6K
R148A 5.6K
R127A 2.7K
R152A 100
R134A 1K
R135A 1K
R136A 1K
R137A 1K
R115A 10K
R113A 2.2K
R153 220
R418A 4.7M
R408 100
R403 100
+12V
+5V
+8V
+B

MAIN BOARD

IC301
INPUT SEL.
MAIN VOL.
TONE
SURROUND
ATT.

IC402
RESET IC

RESET

TAPE MUTE

SW401

CN401

CN402

CN405
POWER BOARD -CN601 3/5 B

CN404
CASSETTE BOARD -CN701 3/5 C

JK302
(M) TYPE ONLY

CN301

CN203
MD CONTROL BOARD -CN504 3/5 D

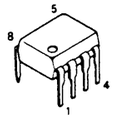
CN403
MD CONTROL BOARD -CN501 3/5 E

KEY BOARD -CN1001/1002 4/5 F

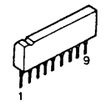
DISPLAY BOARD -CN801 5/5 G

RN1406
RN2404

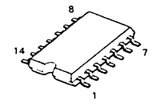
LA6458S



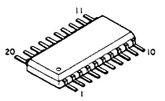
BA3126N



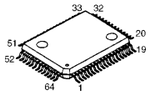
TC74HCT7007AF



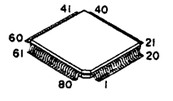
CXA1571M



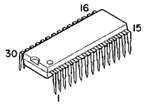
LC75710NE



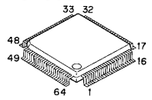
CXD2587Q



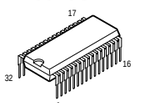
LA1837



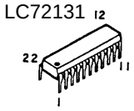
LC75396NE



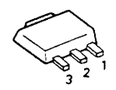
BA5979S



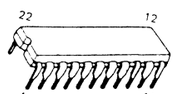
LC72131



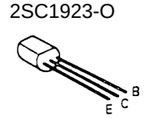
NJM431U



HA12219NT



2SB764
2SC1923-O



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

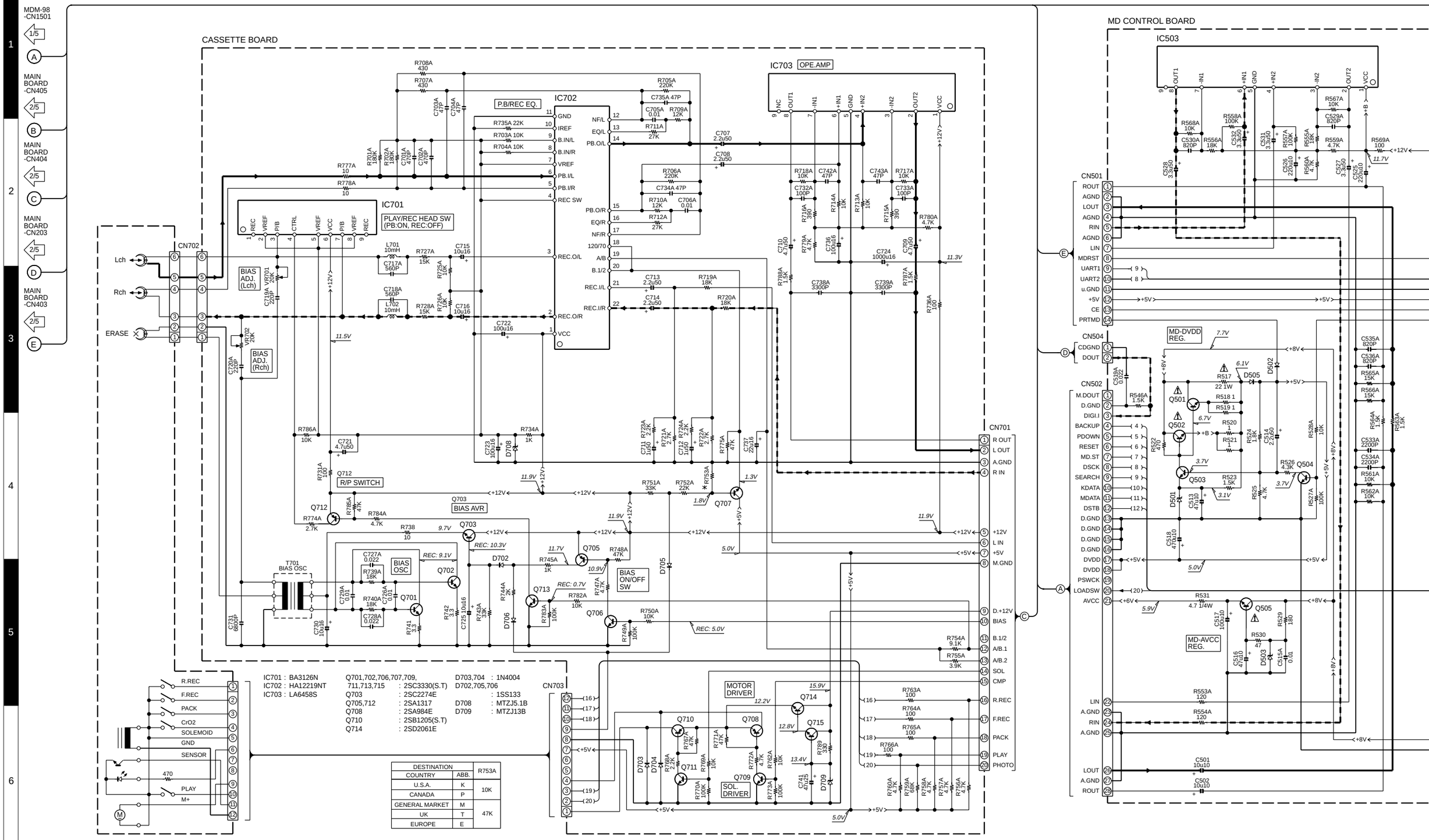
MODE	CARRIER	MODULATION		ANT INPUT
		FREQUENCY	DEVIATION	
FM	98MHz	1kHz	STEREO 67.5kHz 7.5kHz(Pilot)	60dB
AM	1000(999)kHz	400Hz	MONO 30% MOD	60dB

RXD-M31MD(E) (2/5)

Y39-3212-70

RXD-M31MD

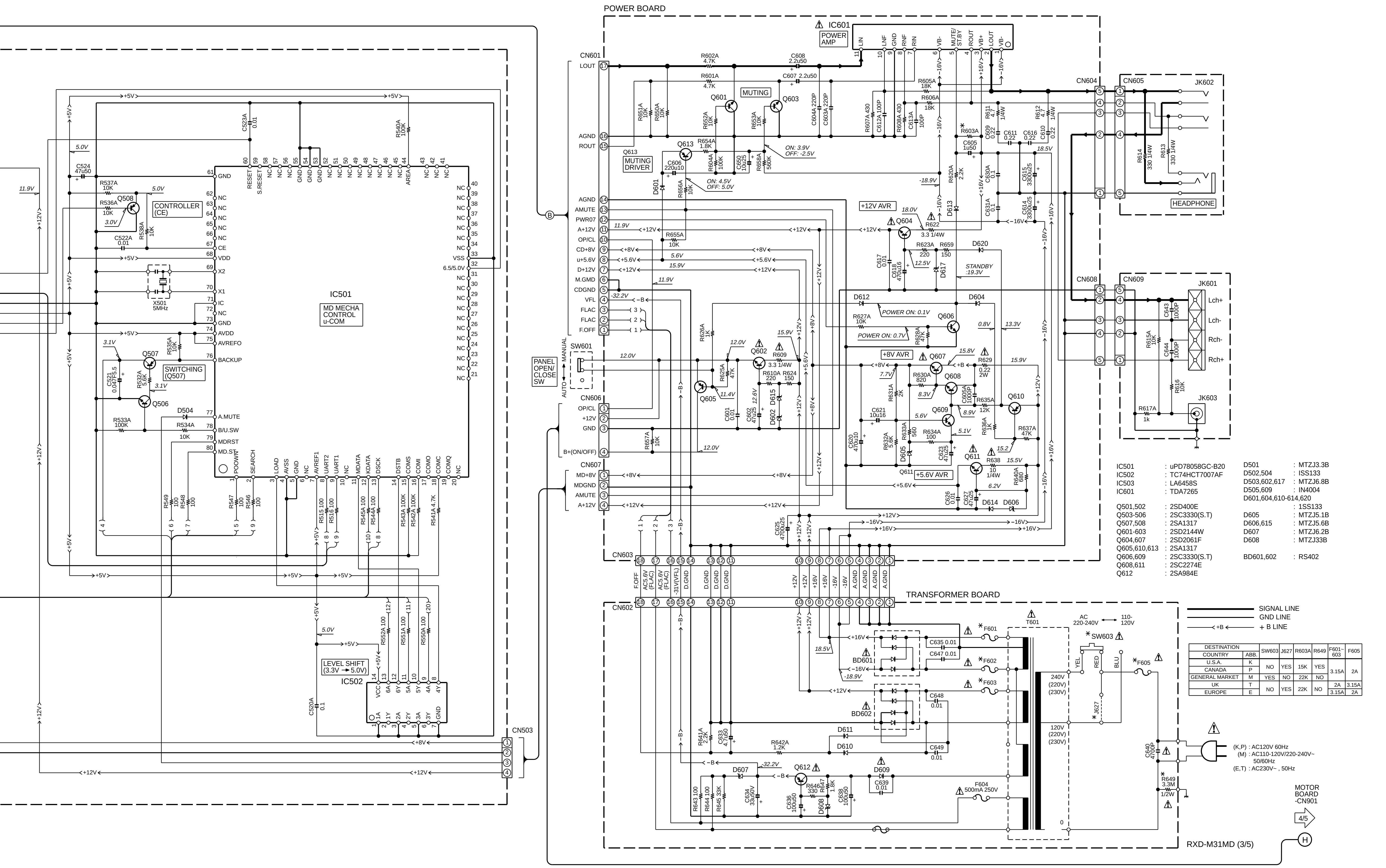
KENWOOD



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 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.

DOLBY and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation. Noise reduction circuit made under license from Dolby Laboratories Licensing Corporation.



IC501	: uPD78058GC-B20	D501	: MTZJ3.3B
IC502	: TC74HCT7007AF	D502,504	: ISS133
IC503	: LA6458S	D503,602,617	: MTZJ6.8B
IC601	: TDA7265	D505,609	: IN4004
		D601,604,610-614,620	: 1SS133
Q501,502	: 2SD400E	D605	: MTZJ5.1B
Q503-506	: 2SC3330(S.T)	D606,615	: MTZJ5.6B
Q507,508	: 2SA1317	D607	: MTZJ6.2B
Q601-603	: 2SD2144W	D608	: MTZJ33B
Q604,607	: 2SD2061F		
Q605,610,613	: 2SA1317	BD601,602	: RS402
Q606,609	: 2SC3330(S.T)		
Q608,611	: 2SC2274E		
Q612	: 2SA984E		

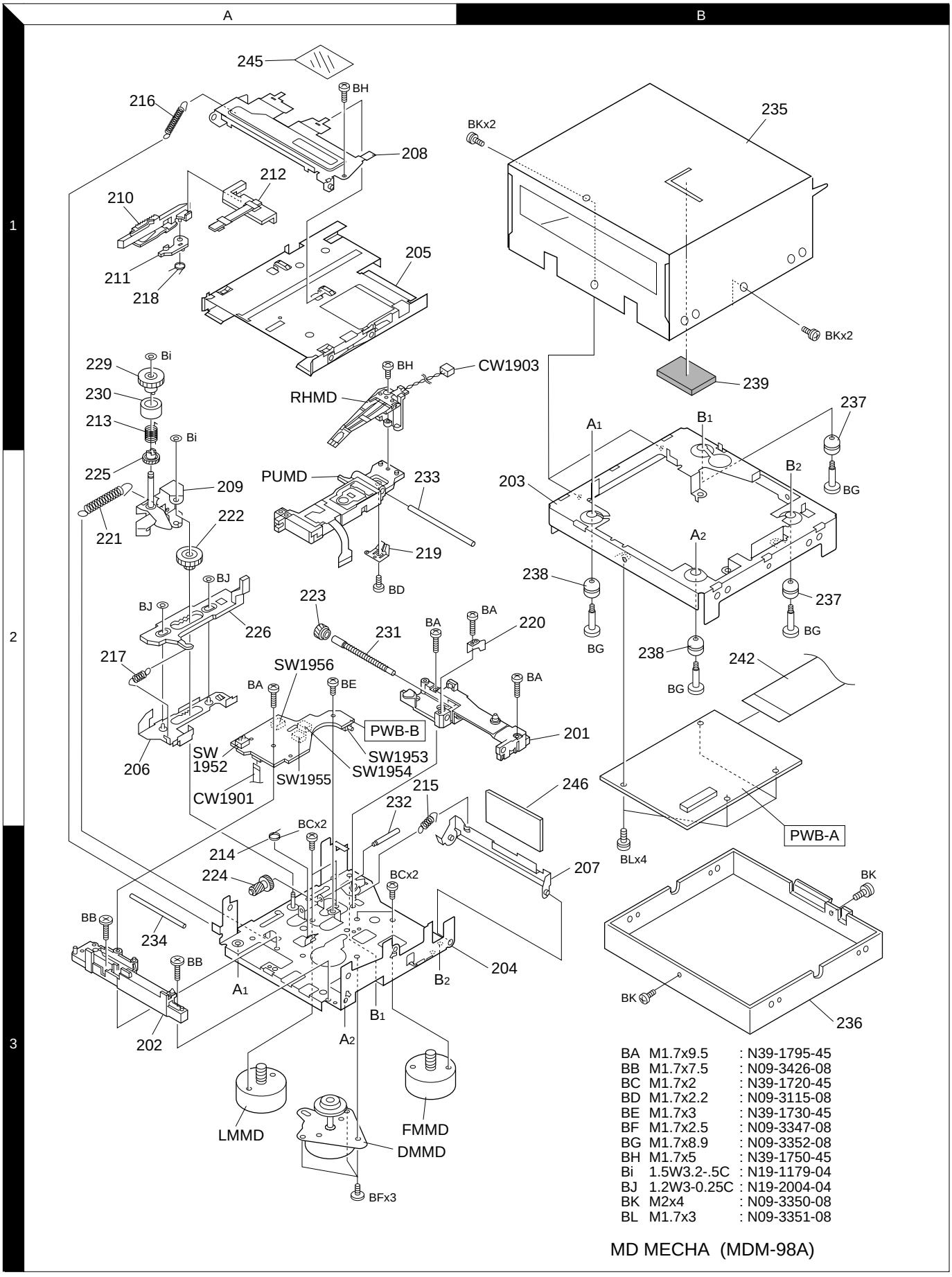
DESTINATION		SW603	J627	R603A	R649	F601~603	F605
COUNTRY	ABB.						
U.S.A.	K	NO	YES	15K	YES	3.15A	2A
CANADA	P						
GENERAL MARKET	M	YES	NO	22K	NO		
UK	T	NO	YES	22K	NO	2A	3.15A
EUROPE	E					3.15A	2A

Y39-3212-70

RXD-M31MD

KENWOOD

EXPLODED VIEW (MD MECHANISM)



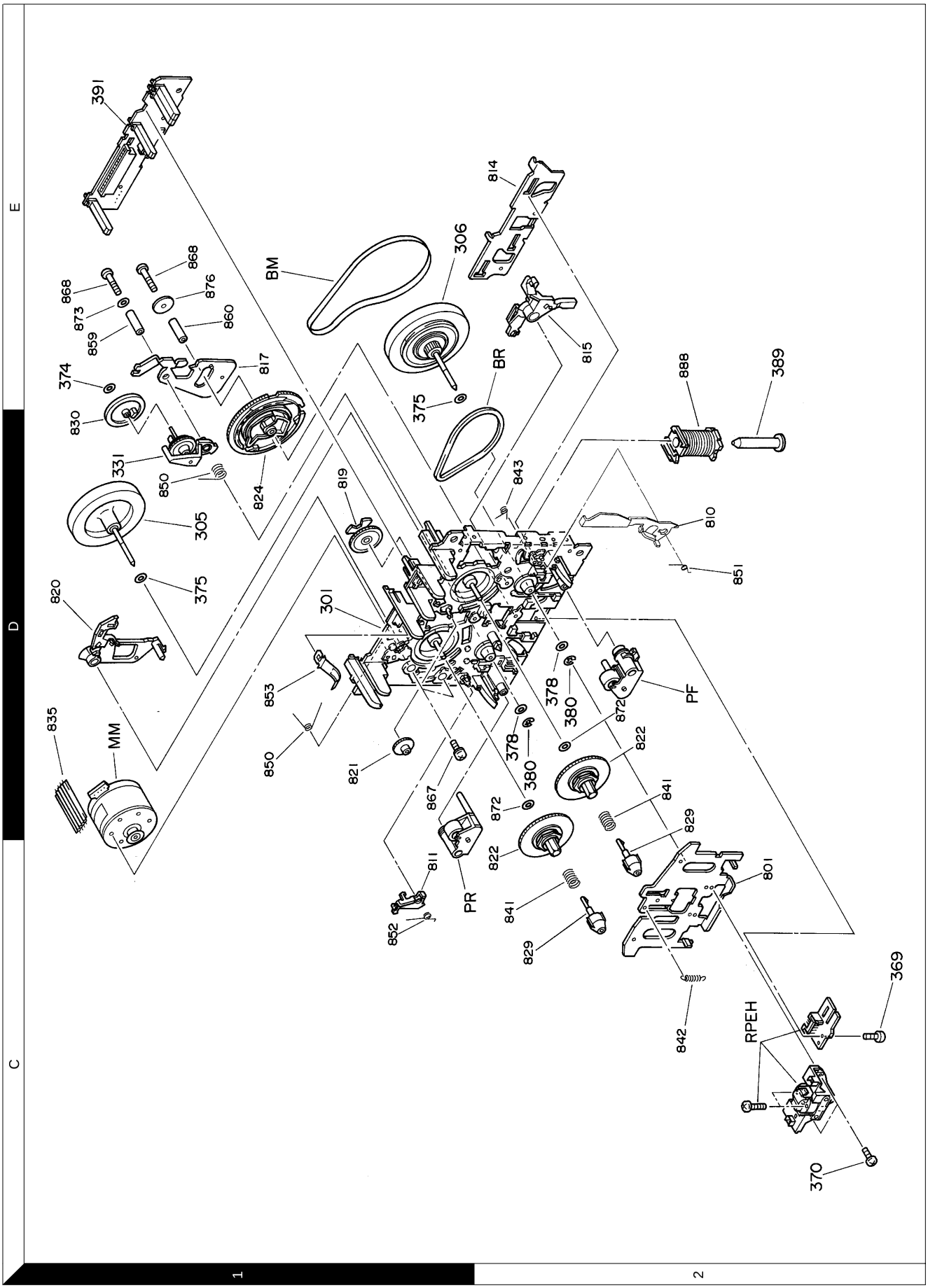
BA	M1.7x9.5	: N39-1795-45
BB	M1.7x7.5	: N09-3426-08
BC	M1.7x2	: N39-1720-45
BD	M1.7x2.2	: N09-3115-08
BE	M1.7x3	: N39-1730-45
BF	M1.7x2.5	: N09-3347-08
BG	M1.7x8.9	: N09-3352-08
BH	M1.7x5	: N39-1750-45
Bi	1.5W3.2-.5C	: N19-1179-04
BJ	1.2W3-0.25C	: N19-2004-04
BK	M2x4	: N09-3350-08
BL	M1.7x3	: N09-3351-08

MD MECHA (MDM-98A)

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

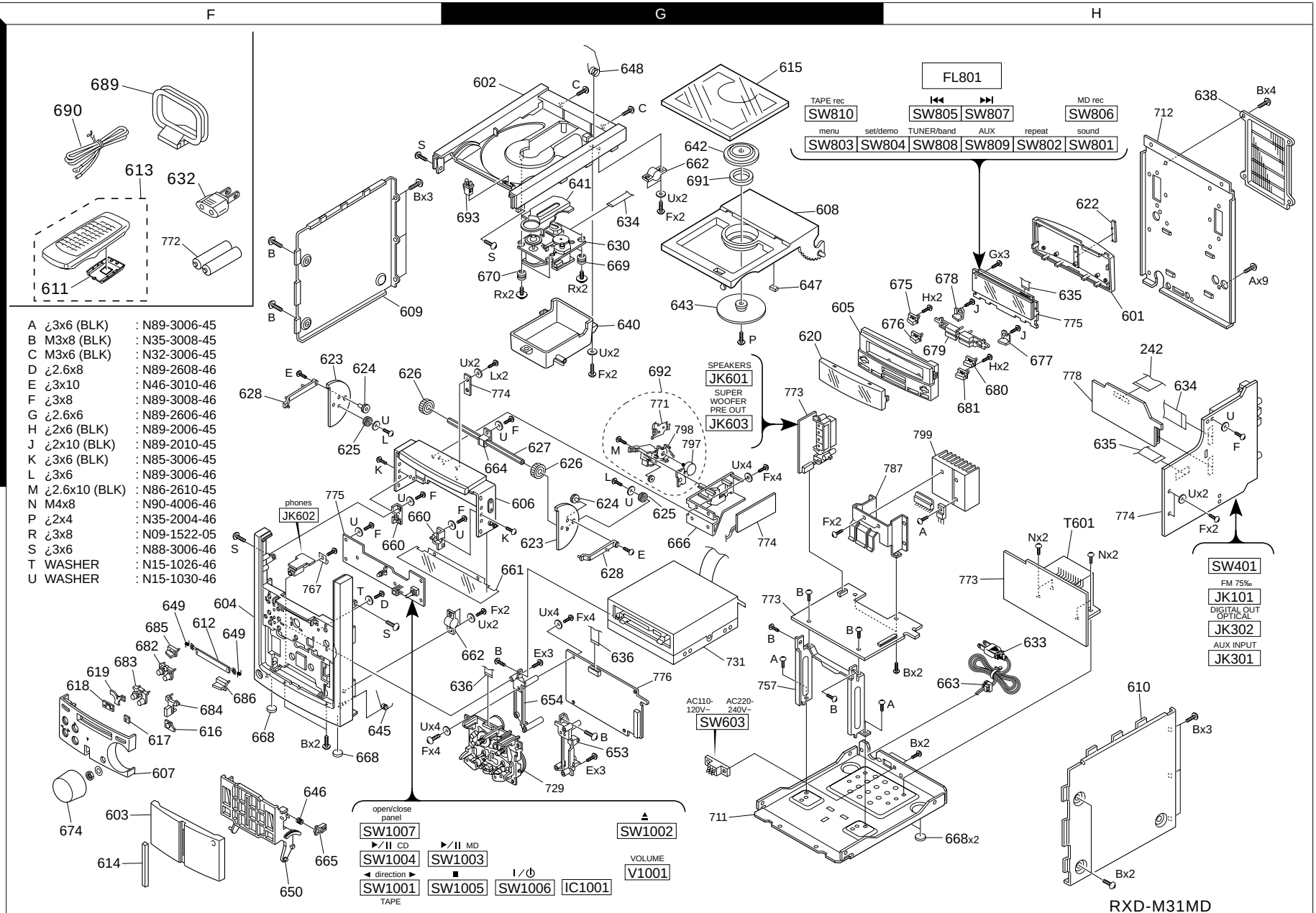
RXD-M31MD

EXPLODED VIEW (CASSETTE DECK MECHANISM)



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

EXPLODED VIEW (UNIT)



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

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

❶

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
			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)		
⚠ 632	1F		E03-0115-05	AC PLUG ADAPTOR	M	
⚠ 633	2H		E30-2928-08	AC POWER CORD 023-60020-005	ME	
⚠ 633	2H		E30-2929-08	AC POWER CORD 023-60040-008	KP	
⚠ 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
Y : PX(Far East, Hawaii) **T :** England **E :** Europe **G :** Germany **V :** China (Shanghai)
Y : AAFES(Europe) **X :** Australia **Q :** Russia **H :** Korea **M :** Other Areas ⚠ indicates safety critical components.

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

❷

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
662	1G,2G	✻	D39-0345-08	DAMPER SET 130-03313-010		
⚠ 663	2H		J42-0343-08	POWER CORD BUSH 130-00000-001	KP	
⚠ 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	E	
-		✻	B60-4225-08	INST MANUAL 152-13818-0266	ME	
-			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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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	ET	
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	ET	
C131A			CK73FB1H471K	CHIP C	470PF	K	KPM	
C132,133			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C134,135			CQ93FMG1H183J	MYLAR	0.018UF	J	MET	
C134,135			CQ93FMG1H223J	MYLAR	0.022UF	J	KP	
C136A			CK73FB1E103K	CHIP C	0.010UF	K		
C137A			CC73FCH1H331J	CHIP C	330PF	J		
C138A			CC73FCH1H390J	CHIP C	39PF	J	ET	
C139			CE04KW1H4R7M	ELECTRO	4.7UF	50WV		
C141A			CC73FCH1H330J	CHIP C	33PF	J	ET	
C142			CE04KW1C470M	ELECTRO	47UF	16WV		
C143A,144A			CC73FCH1H330J	CHIP C	33PF	J		

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C145			CE04KW1C470M	ELECTRO	47UF	16WV		
C146			CE04KW1H4R7M	ELECTRO	4.7UF	50WV	ET	
C147			CC45FSL1H271J	CERAMIC	270PF	J	ET	
C148			CE04KW1C470M	ELECTRO	47UF	16WV	ET	
C149			CK45FB1H103Z	CERAMIC	0.010UF	Z	ET	
C150			CC45FSH1H561J	CERAMIC	560PF	J	ET	
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	ET	
C160A			CC73FSL1H101J	CHIP C	100PF	J		
C161A,162A			CK73FB1H472K	CHIP C	4700PF	K		
C163A-165A			CC73FSL1H101J	CHIP C	100PF	J	KPM	
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		
C224			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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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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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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❼

Ref. No	Address	New Parts	Parts No.	Description			Destination	Remarks
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 JACK	021-23507-100			
JK603			E63-1092-08	PHONO JACK (1P)	046-20100-008			
⚠ F601-603			F50-0151-08	FUSE 3.15A/250V,	050-05020-317		KPME	
⚠ F601-603			F50-0152-08	FUSE 2A/250V	050-05020-201		T	
⚠ F604			F50-0149-08	FUSE 0.5A/250V	050-05020-052		KPME	
⚠ F604			F50-0153-08	FUSE 0.5A/250V	050-05020-053		T	
⚠ F605			F50-0150-08	FUSE 2A/250V	050-05020-206		KPME	
⚠ 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	CHOKE 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		
R110A,111A			RK73FB2A473J	CHIP R	47K	J	1/10W	ET	
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		
R143A			RK73FB2A473J	CHIP R	47K	J	1/10W	ET	

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Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
R144A,145A			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
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	KPM	
R151A			RK73FB2A103J	CHIP R	10K	J	1/10W		
R152A			RK73FB2A101J	CHIP R	100	J	1/10W		
R155A			RK73FB2A000J	CHIP R	0	J	1/10W	ET	
R155A			RK73FB2A4R7J	CHIP R	4.7	J	1/10W	KPM	
R156A			RK73FB2A000J	CHIP R	0	J	1/10W	KPM	
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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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	KP	
R603A			RK73FB2A223J	CHIP R	22K	J	1/10W	MTE	
R604A			RK73FB2A104J	CHIP R	100K	J	1/10W		

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	R605A,606A			RK73FB2A183J	CHIP R	18K	J	1/10W		
	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	KP	
	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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R747A			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
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	KP	
R753A			RK73FB2A473J	CHIP R	47K	J	1/10W	MET	
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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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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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			1SS133	SWITCHING DIODE					
D103			MTZJ5.1B	ZENER DIODE					
D201,202			1SS133	SWITCHING DIODE					
D401-409			1SS133	SWITCHING DIODE					
D501			MTZJ3.3B	ZENER DIODE					
D502			1SS133	SWITCHING DIODE					
D503			MTZJ6.8B	ZENER DIODE					
D504			1SS133	SWITCHING DIODE					
⚠ D505			1N4004	DIODE					
D601			1SS133	SWITCHING DIODE					
D602			MTZJ6.8B	ZENER DIODE					
D604			1SS133	SWITCHING DIODE					
D605			MTZJ5.1B	ZENER DIODE					
D606			MTZJ5.6B	ZENER DIODE					
D607			MTZJ6.2B	ZENER DIODE					
D608			MTZJ33B	ZENER DIODE					
⚠ D609			1N4004	DIODE					
D610-614			1SS133	DIODE (SWITCHING)					
D615			MTZJ5.6B	ZENER DIODE					
D617			MTZJ6.8B	ZENER DIODE					
D620			1SS133	DIODE (SWITCHING)					
D702			1SS133	DIODE (SWITCHING)					
D703,704			1N4004	DIODE					
D705-706			1SS133	DIODE (SWITCHING)					

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

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

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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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⚠ R1809			RK73EB2B1R0J	CHIP R	1	J	1/8W		
⚠ 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					
⚠ Q1700			2SC2412KR	TRANSISTOR					
Q1701			RNC1404	TRANSISTOR					
⚠ Q1702			2SA1162G	TRANSISTOR					
Q1800			RNC1407	TRANSISTOR					
Q1801			2SA1162G	TRANSISTOR					
Q1802			RNC1407	TRANSISTOR					
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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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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Y : AAFES(Europe) **X :** Australia **Q :** Russia **H :** Korea **M :** Other Areas ⚠ indicates safety critical components.

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

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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						
⚠ 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)

Notes

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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