

MICRO HiFi COMPONENT SYSTEM  
**RXD-M51/M51MD**  
**SERVICE MANUAL**  
 (HM-531/581MD)

**KENWOOD**

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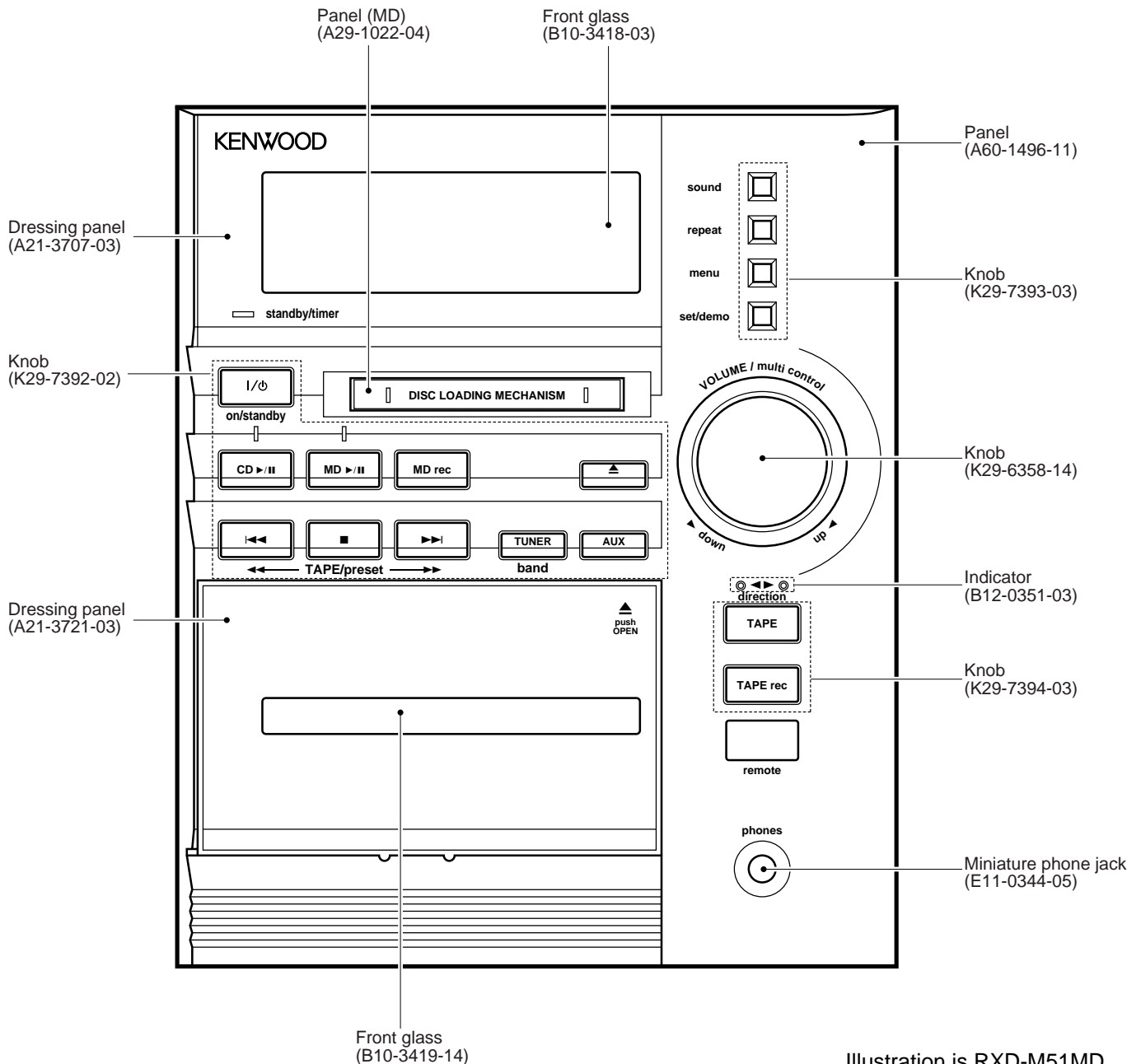


Illustration is RXD-M51MD.  
 \* Refer to parts list on page 49.

- Refer to DM-3090 service manual(B51-5396-00), if require the following items in detail.
- 1) MD mechanism(MDM-98A) disassembly for repair (page5,6)
- 2) Semiconductor description  
 IC1101:RF signal control(page9)  
 IC1201:ENDEC/ATRAC(page10,11)  
 IC1401:system microcomputer(page 12,13)

**Caution** : No connection of ground line if disassemble the unit.  
 Please connect the ground line on rear panel, PCBs, Chassis and some others.

KENWOOD-Crop. certifies this equipment conforms to DHHS Regulations No. 21 DFR 1040. 10, Chapter 1, Subchapter J.

**DANGER** : Laser radiation when open and interlock defeated.  
**AVOID DIRECT EXPOSURE TO BEAM**

# RXD-M51/M51MD

## CONTENTS / ACCESSORIES / CAUTION

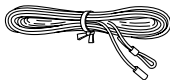

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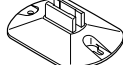
### Accessories

Please confirm that the following accessories are present.

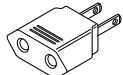
FM indoor antenna (1) -----

Europe U.K. and Russia (T90-0810-05): TE	Other countries (T90-0801-05): M
	

Loop antenna (1) (T90-0833-05)-----

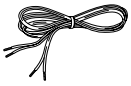
	AM loop antenna stand (1) (J19-3645-05))
	

AC plug adapter (1)  
(E03-0115-05)

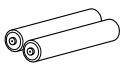


Use to adapt the plug on the power cord to the shape of the wall outlet. (Accessory only for regions where use is necessary.)

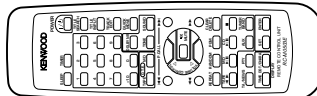
Speaker cords (2)  
(E30-5500-05)



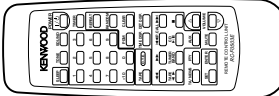
Batteries (R6/AA) (2)



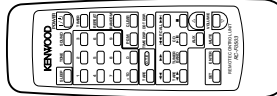
Remote control unit (1)  
(A70-1236-05) : RC-M0503E



Remote control unit (1)  
(A70-1242-05) : RC-F0503E



Remote control unit (1)  
(A70-1241-05) : RC-F0503



### System configuration

SYSTEM	MAIN UNIT	DESTINATION	SPEAKER	SP CORD PARTS.NO.
HM-581MD	RXD-M51MD	E1T1	LS-M61	E30-5500-05
HM-531	RXD-M51	M1E2T2	LS-M51	E30-5500-05

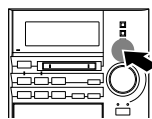
### Caution

#### Operation to reset

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

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

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



# RXD-M51/M51MD

## EXTERNAL VIEW / DISASSEMBLY FOR REPAIR

### EXTERNAL VIEW

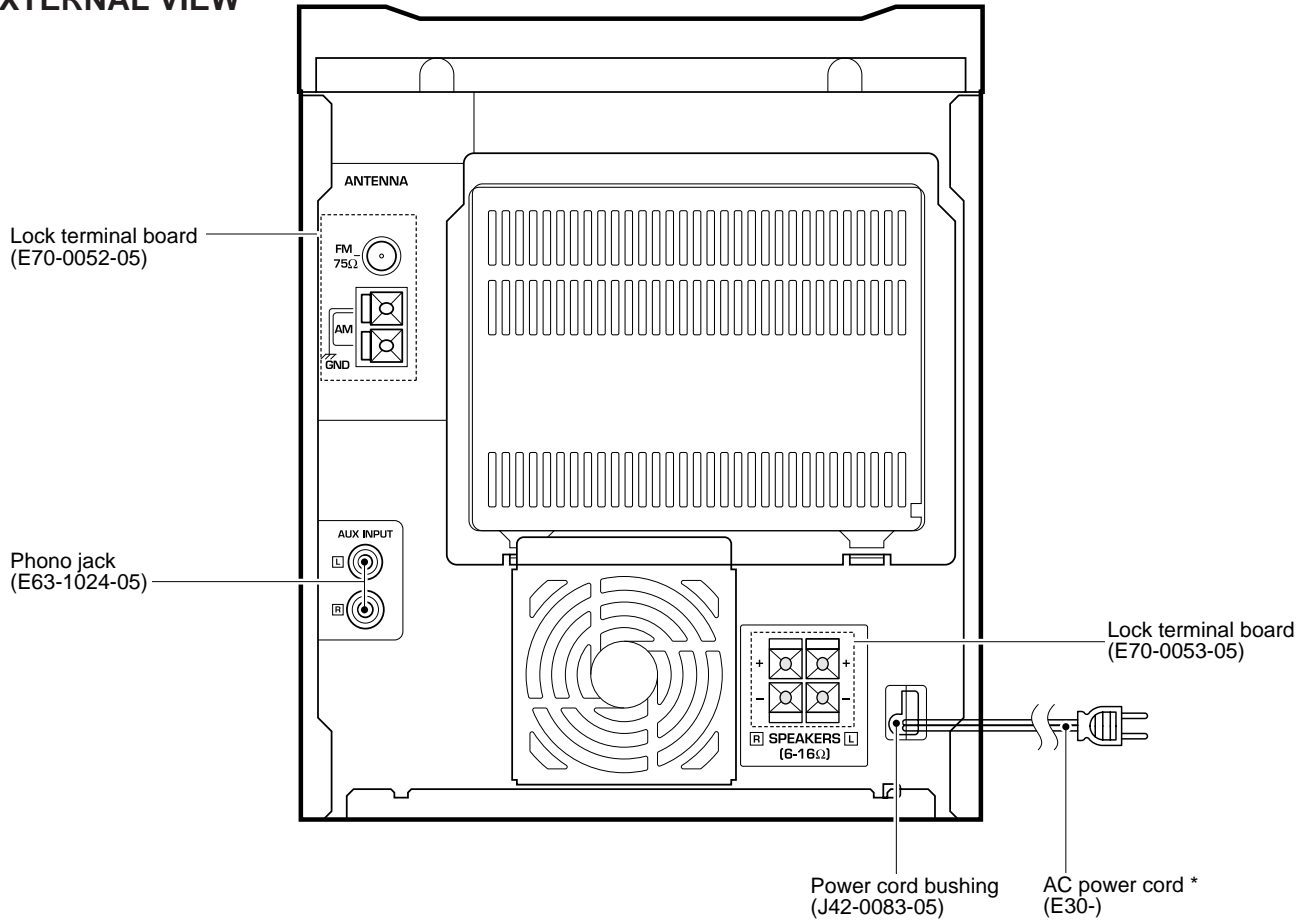
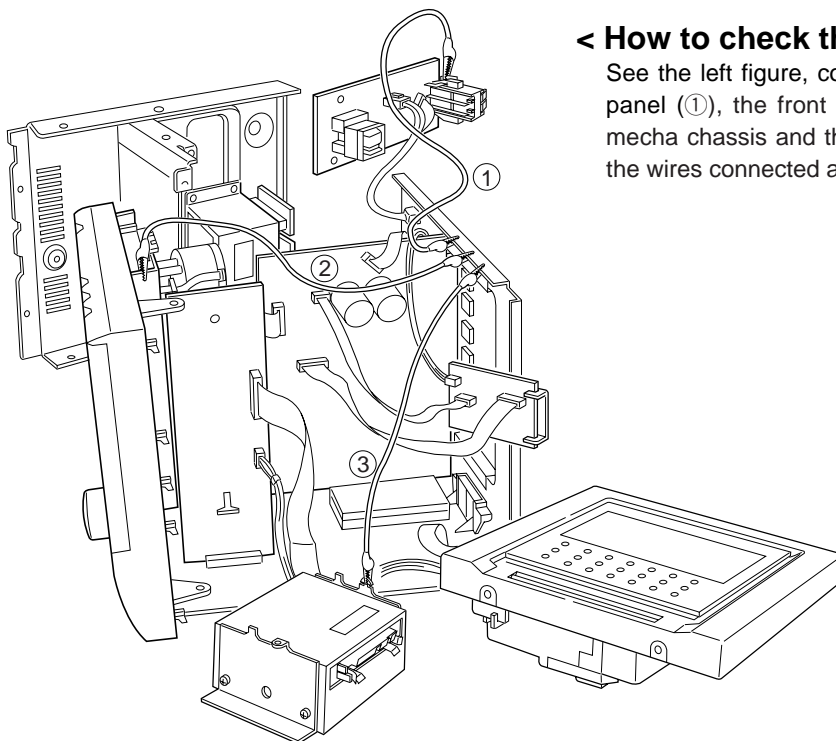


Illustration is RXD-M51MD.

\* Refer to parts list on page 49.

### DISASSEMBLY FOR REPAIR

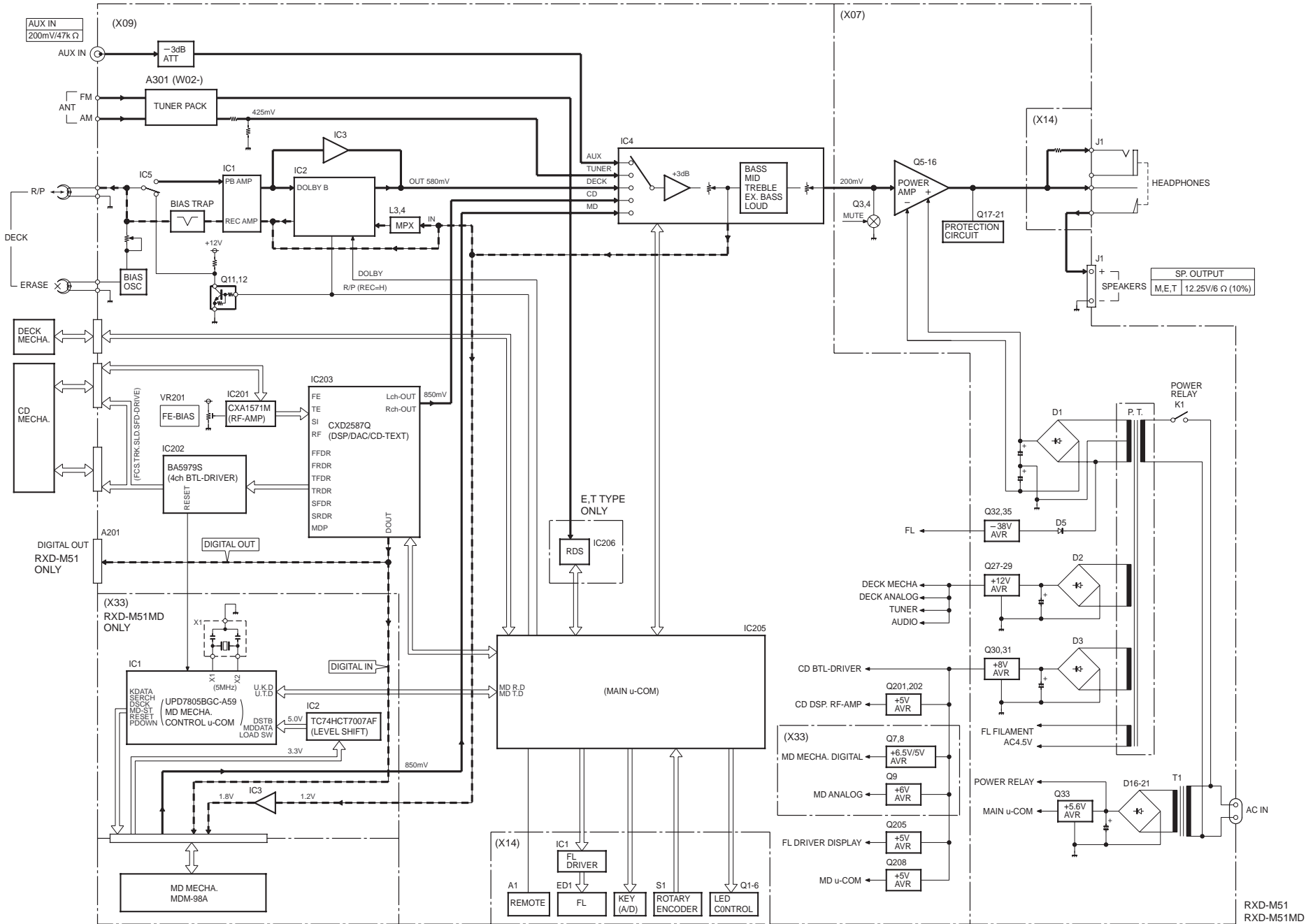


#### < How to check the PCB >

See the left figure, connect the SP terminal GND and the rear panel (①), the front panel GND and the rear panel (②), MD mecha chassis and the rear panel (③) (except RXD-M51) with the wires connected alligator clips.

# RXD-M51/M51MD

## 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 after that the clock blinks up on display.

### 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 (-6dB)
	※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
	TIME SINGLE
DECK	※DIRECTION FORWARD
	※RVS MODE ↷
	※DOLBY NR OFF
	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	FML 65.00MHz
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

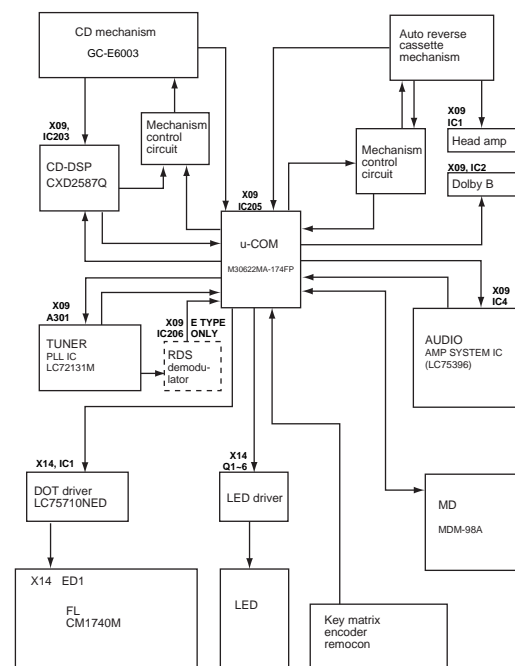
(DSW4=50pin, DSW3=49pin, DSW2=48pin)

Destination	U-COM Destination	Discrimination			Band	Receiving frequency range	Channel space	IF	RF	PORT 92
		DSW4	DSW3	DSW2						
K, P	K1	0	0	0	FM	87.5MHz~108.0MHz	100kHz	+10.7MHz	25kHz	0
					AM	530kHz~1700kHz	10kHz	+450kHz	10kHz	0
M, Y	K2	0	1	1	FM	87.5MHz~108.0MHz	100kHz	+10.7MHz	25kHz	1
					AM	530kHz~1610kHz	10kHz	+450kHz	10kHz	0
J	J	0	0		FM	76.0MHz~108.0MHz	100kHz	-10.7MHz	25kHz	0
					AM	531kHz~1629kHz	9kHz	+450kHz	9kHz	0
Q	Q RDS	1	0		FML	87.5MHz~108.0MHz	50kHz	+10.7MHz	10kHz	0
					FML	65.0MHz~74.0MHz	10kHz	+10.7MHz	10kHz	0
E, T	E1 RDS	1	1	0	AM	531kHz~1602kHz	9kHz	+450kHz	9kHz	0
					AM	87.5MHz~108.0MHz	50kHz	+10.7MHz	25kHz	0
					AM	531kHz~1602kHz	9kHz	+450kHz	9kHz	0

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

## 4. Main microprocessor M30622MA-174FP (X09 : IC205)

### 4-1 Microprocessor periphery block diagram



### 4-2 Key matrix

Vref = 5V ( ) of KEY : RXD-M51

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

CIRCUIT DESCRIPTION

RXD-M51/M51MD

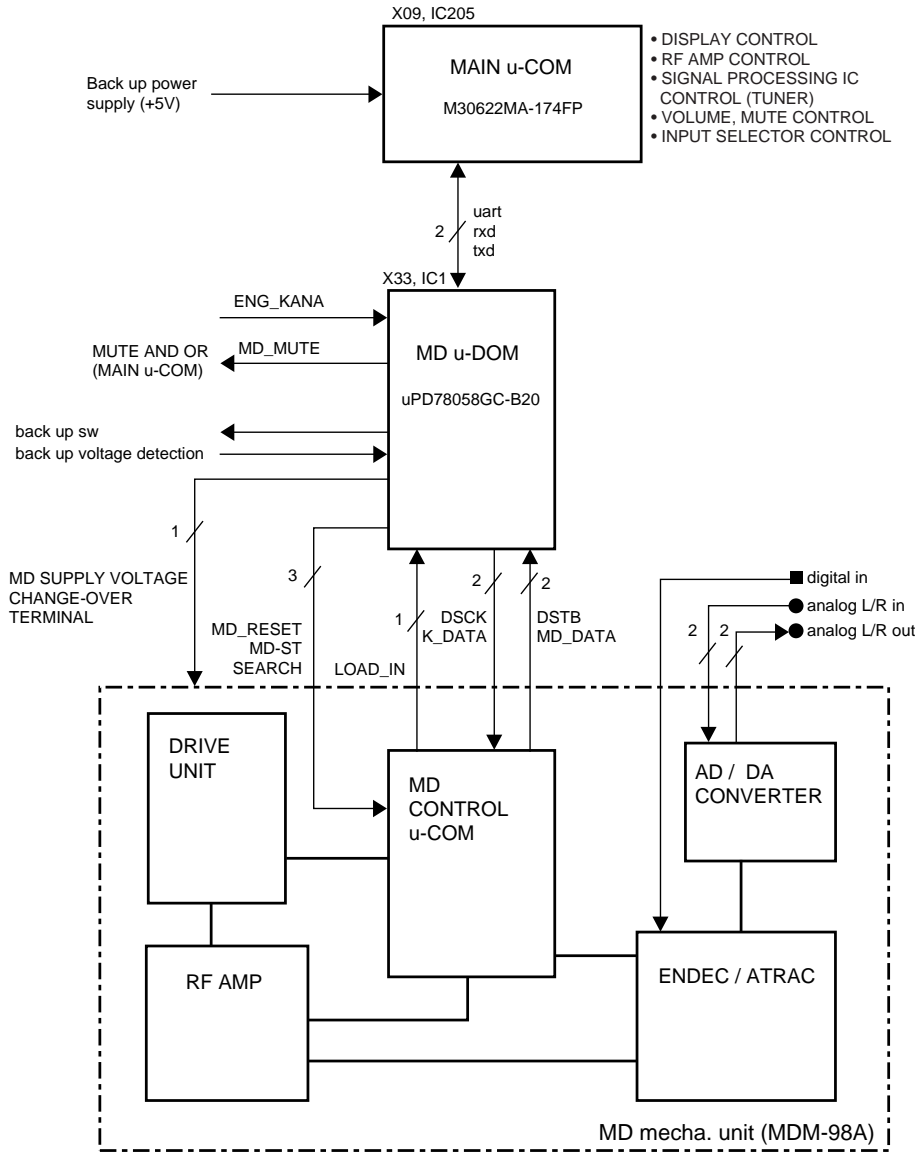
## 4-3 Pin description of main microprocessor: M30622MA-159FP

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 DETECT INPUT H : NO TUNED L : TUNED
4	STEREO	I	TUNER STEREO DETECT INPUT H : MONO L : STEREO
5	EMPHASIS	O	TUNER EMPHASIS CHANGEOVER H : FM100kHz L : AM&50kHz
6	RDS DATA	I	RDS DATA INPUT H : 1 L : 0
7	CE	I	AC OFF DETECT INPUT H : AC ON L : AC OFF
8	BYTE	I	CONNECT GND
9	CNVSS	I	CONNECT GND
10	XCIN	I	TIMMER CLOCK(32.768kHz)
11	XCOU	O	TIMMER CLOCK(32.768kHz)
12	RESET	I	U-COM RESET H : NORMAL L : RESET
13	XOUT	O	MAIN CLOCK
14	VSS	-	GND
15	XIN	I	MAIN CLOCK
16	VCC	-	5V POWER SUPPLY
17	NMI	I	CONNECT 5V
18	REMOCON	I	REMOCON INPUT INTERRUPT BY H →L
19	RDX CLK	I	RDS CLK INPUT INTERRUPT BY L→H
20	SCOR	I	SUB CODE SYNCHRO SIGNAL INTERRUPT BY H →L (CXD2587Q)
21	CD DC OFF	O	CD DSP POWER SUPPLY CONTROL H : OFF L : ON
22	SCLK	O	CD SENSE DATD READ OUT CLOCK (CXD2587Q)
23	SENSE	I	CD SENSE INPUT (CXD2587Q) H : 1 L : 0
24	CD CLK	O	CD DSP LOCK (CXD2587Q)
25	XLAT	O	CD DSP LATCH OUTPUT (CXD2587Q) L : LATCH
26	CD DATA	O	CD DSP DATA OUTPUT (CXD2587Q) H : 1 L : 0
27	CD RST	O	CD DSP RESET OUTPUT (CXD2587Q) H : NORMAL L : RESET
28	SQCK	O	CD SUB CODE CLOCK (CXD2587Q)
29	SUBQ	I	CD SUB CODE INPUT (CXD2587Q)
30	NC	O	NO USED
31	FL DATA	O	FL DRIVER DATA OUTPUT (LC75710NE)
32	NC	O	NO USED
33	FL CLK	O	FL DRIVER CLOCK (LC75710NE)
34	CD MUTE	I	CD MUTE INPUT (CXD2587Q)
35	MD TXD	O	TRANSMISSION DATA OUTPUT TO MD (UART)
36	MD RXD	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 OUTPUT H : NORMAL L : RESET
40	CD MON	O	CD MON OUTPUT H : ON L : OFF
41	NC	O	NO USED
42	MDP SHORT	O	SAME CD POWER SIGNAL H : OFF L : ON
43	DOOR OPEN	I	CD DOOR SWITCH INPUT H : OPEN L : CLOSE
44,45	NC	O	NO USED
46	DSW0	I	DESTINATION DISTINCTION (MODEL) H : RXD-M51 L : RXD-M51MD
47	DSW1	I	DESTINATION DISTINCTION (DOLBY) H : NO DOLBY L : DOLBY NR
48-50	DSW2-DSW4	I	DESTINATION DISTINCTION (TUNER)
51	FL RST	O	FL DRIVER RESET OUTPUT (LC75710NE) H : NORMAL L : RESET

Pin No.	Name	I/O	Description						
52	MD CE	O	MD CE CONTROL L : CE						
53	ENC1	I	ROTARY ENCODER1 (VOL. INPUT A)						
54	ENC2	I	ROTARY ENCODER2 (VOL. INPUT B)						
55	LED5	O	LED OUTPUT D2 SELECTOR MD /TUNER H : ON L : OFF						
56	LED4	O	LED OUTPUT D1 SELECTOR CD H : ON L : OFF						
57	LED3	O	LED OUTPUT D5(RED) TIMER H : OFF L : ON						
58	LED2	O	LED OUTPUT D5(GRN) STANDBY H : OFF L : ON						
59	LED1	O	LED OUTPUT D3 TAPE DIRECTION(FWD) H : ON L : OFF						
60	LED0	O	LED OUTPUT D4 TAPE DIRECTION(RVS) H : ON L : OFF						
61	FL CE	O	FL DRIVER CE OUTPUT (LC75710NE)						
62	VCC	-	POWER SUPPLY						
63	NC	O	NO USED						
64	VSS	-	GND						
65	A/B-2	O	DECK ACTIVITY CHOICE MODE (HA12219NT) <table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td>65</td> <td>66</td> <td></td> </tr> <tr> <td>H</td> <td>H</td> <td>REC</td> </tr> </table>	65	66		H	H	REC
65	66								
H	H	REC							
66	A/B-1	O	DECK ACTIVITY CHOICE MODE (HA12219NT) <table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td>H</td> <td>L</td> <td>REC PAUSE,ARM</td> </tr> <tr> <td>L</td> <td>L</td> <td>PLAY</td> </tr> </table>	H	L	REC PAUSE,ARM	L	L	PLAY
H	L	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 FEW REC SW INPUT H : OFF L : ON						
70	REC R SW	I	DECK RVS REC SW INPUT H : OFF L : ON						
71	PACK SW	I	DECK PACK SW INPUT H : OFF L : ON						
72	CrO2 SW	I	DECK CrO2 DETECT SW INPUT H : CrO2 L : NORMAL						
73	PLAY SW	I	DECK PLAY SW INPUT H : OFF L : ON						
74	B1/2	O	DECK ACTIVITY CHOICE MODE (HA12219NT) H : B2 L : B1						
75	A120/70	O	DECK ACTIVITY CHOICE MODE (HA12219NT) H : 70U L : 120U						
76	BIAS	O	DECK BIAS CONTROL H : ON L : OFF						
77	NOR	O	DECK NORMAL (HA12219NT) H : NORMAL L : CrO2						
78	REC/PLAY	O	DECK REC/PLAY CHANGEOVER H : REC L : PLAY						
79	DOLBY/NR	O	DECK DOLBY CONTROL H : ON L : OFF						
80	CLK	O	CLOCK OUTPUT TO SYSTEM IC/PLL IC						
81	MD PROTECT	I	MD PROTECTION L : PROTECT						
82	FAN H/L	O	FAN SPEED CONTROL H : LOW L : HI						
83	FAN ON/OFF	O	FAN ON/OFF CONTROL H : OFF L : ON						
84	A MUTE	O	AUDIO MUTE CONTROL H : OFF L : ON						
85	CD A MUTE	O	CD ANALOG MUTE CONTROL H : ON L : OFF						
86	TUNER MUTE	O	TUNER MUTE CONTROL H : ON L : OFF						
87	POWER	O	POWER RELAY CONTROL H : ON L : OFF						
88	PROTECT	I	PROTECTION DETECT H : PROTECT						
89-91	KEY1-KEY3	I	KEY A/D INPUT1-3						
92,93	AD PROTECT2,1	I	PROTECTION DETECT INPUT2,1 0.5V : PROTECT						
94	MECHA MUTE	O	DECK MECHA MUTE OUTPUT H : ON L : OFF						
95	RDS SLEVEL	I	RDS S-LEVEL INPUT (E,T type)						
96	AVSS	-	GND						
97	PHOTO	I	DECK ROTARY DETECT INPUT						
98	VREF	-	5V REFERENCE VOLTAGE ( NO BACKUP)						
99	AVCC	-	5V POWER SUPPLY ( BACKUP)						
100	DATA	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 (X33 :IC1)

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 GND)
5,6	-	-	NO USED
7	Avref1	-	D/A REFERENCE VOLTAGE(+5V)
8	RXD	I	COMMUNICATION FROM MAIN u-COM (UART RXD)
9	TXD	O	COMMUNICATION TO MAIN u-COM (UART TXD)
10	-	-	NO USED
11	MD_DATA	I	MD IC IN DATA (MDM-98A IN DATA)
12	K_DATA	O	MD IC OUT DATA (MDM-98A OUT DATA)
13	DSCK	O	MD IC CK (MDM-98A CLOCK)
14	DSTB	I	MD IC STB (MDM-98A STB)
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	MD LOAD VOLTAGE CHANGE-OVER DISC LOAD/EJECT : H OTHER : L
33	Vss	-	u-COM(CONNECTED TO GND)
34-43	-	-	NO USED
44	INISW	I	INITIAL SW
45-58	-	-	NO USED
59	SRESET	O	NO USED
60	RESET	I	u-COM RESET
61	-	I	NO USED
62-66	-	-	NO USED
67	CE	I	u-COM CE
68	Vdd	-	u-COM POWER SUPPLY
69	X2	-	5MHz OSCILLATOR
70	X1	I	5MHz OSCILLATOR
71	IC	-	IC TERMINAL(CONNECTED TO GND)
72	NC	-	NO USED (OPEN)
73	GND	I	NO USED (CONNECTED TO GND)
74	Avdd	-	A/D POWER SUPPLY
75	Avref0	I	A/D REFERENCE VOLTAGE
76	BACKUP	I	BACKUP DETECTOR(A/D) BACK UP : MORE THAN2.2V NO BACKUP:LESS THAN2.2V
77	AMUTE	O	ANALOG MUTE H : MUTE ON L : MUTE OFF
78	BACKUPSW	O	BACKUP DETECTOR SW H:ON(IN CASE of CE : HIGH) L:OFF(IN CASE of CE LOW)
79	MD_RESET	O	MD u-COM RESET H : NORMAL L : MD u-COM RESET (LOW EDGE)
80	MD_ST	O	MD ON/CD SYNC H : MD ON L : BACKUP MODE

## 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 remote 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.

SECTOR OPERATION KEY	TUNER	AUX		
MENU	NORMAL ACTIVITY	┌── DISPLAY ──┐ ┌── DISPLAY ──┐ ┌── DISPLAY ──┐ VOLUME INPUT BALANCE (VOLUME15) (INPUT 0) (CENTER)		
◀◀	P.CALL : DOWN	VOLUME 1	INPUT-6(dB)	L ch MAX
■	P.CALL : 10 STEP CHANGE ┌── 10 → 20 → 30 → 40 → 01 ──┐	VOLUME 40	INPUT 0 (dB)	CENTER 
▶▶	P.CALL : UP	VOLUME 80	INPUT+3(dB)	Rd MAX
REPEAT	┌── EQU.MAX ──┐ ┌── EQU.MINI ──┐ ┌── EQU.FLAT ──┐			
SOUND (E.T only)	S-LEVEL DISPLAY ┌── ATT OFF * * ──┐ ↓ ATT ON * * ↓ TUNER CATT OFF * * : 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.

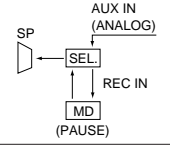
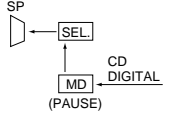
(c) Mechanism half switches indication

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	<ul style="list-style-type: none"> <li>• The "ANALOG" is indicated on the display for a second.</li> <li>• AUX input level→MID</li> <li>• Source indicator (MD) is turned ON .</li> </ul>	
2	Digital through test mode	SOUND	<ul style="list-style-type: none"> <li>• The "DIGITAL1" is indicated on the display for a second. "DIGITAL1"→CD input</li> <li>• Source indicator (MD) is blinked.</li> </ul>	

6-3-2 MD TEST mode for adjustment

1. Preparation for adjustment

Test disc

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

2. Test mode  
 Test mode setting method

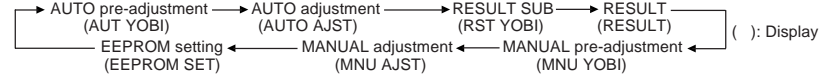
- 1. While pressing the [MD PLAY] key, plug the AC power cord into the AC power outlet. (Start from Ⓐ if no disc load, Ⓑ if disc load.)



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

Entering the specific mode

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



• Canceling the test mode

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



• **Test Mode**

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

\* 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	[ A U T O ]
Step 3	Press once the MD PLAY button.	The slide moves to the innermost periphery, and automatic pre-adjustment is started. <ul style="list-style-type: none"> <li>During automatic adjustment *** changes as follows. HAO→RFg→SAg→SBg→PTG→PCH→GTG→GCH→RCG→SEG→RFG→SAG→HAO→HEO→TCO→LAO</li> <li>If adjustment is OK, Step 4.</li> <li>If adjustment is NG, Step 5.</li> </ul>	[ *** : _ _ _ _ _ ]
	End of adjustment		
Step 4	Grating adjustment, adjustment value output Press once the MD STOP button.	STEP 2	[ _ C O M P L E T E _ ]
Step 5	Adjustment value output Press once the MD STOP button.	STEP 2 AUTO pre-adjustment menu	[ A U T Y O B I ]

• \*\*\* : Adjustment name, □□□□ : Address

**2. AUTO adjustment mode**

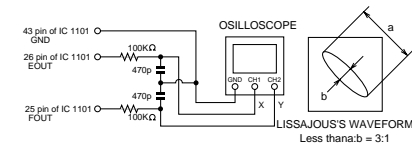
Step No.	Setting Method	Remarks	Display
Step 1	Test mode STOP state		[ t s m○○○○ e ○○ ]
Step 2	Press the MD REC button two times.	AUTO adjustment menu	[ A U T O _ A J S T _ ]
Step 3	Press once the MD PLAY button.	The slide moves to the innermost periphery, and automatic adjustment is started. <ul style="list-style-type: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

Step No.	Setting Method	Remarks	Display
Step 5	Continuous playback (groove section)		[ a□□□□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 deviation**

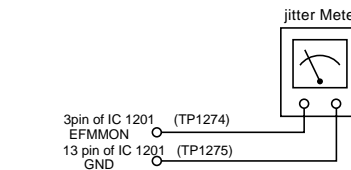


**Figure 1-1 Optical Pickup Grating Deviation Measuring Method**

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

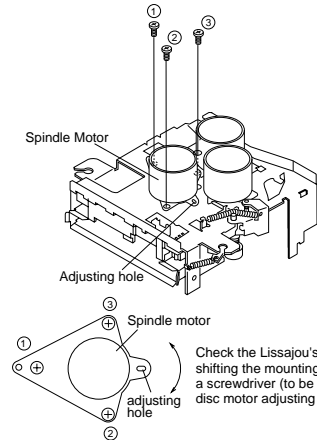
- Slightly loosen the 3 screws of spindle moto, and make an adjustment, observing the Lissajous's waveform.
- After adjustment tighten the screw in order of ①, ②, ③.

**2. Jitter adjustment and checking method**



**Figure 1-3 Jitter connection diagram**

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



**Figure 1-2**

Check the Lissajou's waveform, shifting the mounting position with a screwdriver (to be fitted into the disc motor adjusting hole).

### 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 or press the [SET] key.

##### (3) Operation

KEY	DISPLAY	OPERATION															
[DISC3 PLAY] +AC	CD 5 01	POWER ON, SEL CD Mecha. initialization Tray 3 opens															
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 ■	TRAY CLOSE/DISC CLAMP 03 MODE (TRACKING SERVO OFF)															
FF	CD 5 01	Pick manual feed (IN→OUT) (Stop mode only)															
FB	CD 5 01	Pick manual feed (OUT→IN) (Stop mode only)															
SKIP DOWN	CD 5	Indication : Adjustment value/Mean value (stop mode only)/HEX															
		<table border="1"> <tr> <td>DOT section</td> <td>TNO section</td> <td>SEC. section</td> </tr> <tr> <td>TB/FB</td> <td>TB value</td> <td>FB value</td> </tr> <tr> <td>TG/FG</td> <td>TG value</td> <td>FG value</td> </tr> <tr> <td>FE/RF</td> <td>FE value</td> <td>RF value</td> </tr> <tr> <td>TE/VC</td> <td>TE value</td> <td>VC value</td> </tr> </table>	DOT section	TNO section	SEC. section	TB/FB	TB value	FB value	TG/FG	TG value	FG value	FE/RF	FE value	RF value	TE/VC	TE value	VC value
		DOT section	TNO section	SEC. section													
		TB/FB	TB value	FB value													
		TG/FG	TG value	FG value													
FE/RF	FE value	RF value															
TE/VC	TE value	VC value															
SKIP UP	CD 5 06	Read TOC → play															

#### 6-4-2 Mecha. manual mode

##### (1) Setting

While pressing the [DISC 1 PLAY] Key, plug the AC power cord into an AC outlet.

##### (2) Cancelling

Press the [ON/STAND BY] Key.

##### (3) Operation

KEYS	INDICATION	OPERATION
FF	CD MANUAL	LIFT MOTOR UP
FB	CD MANUAL	LIFT MOTOR DOWN
DISC 2	CD MANUAL	LOAD MOTOR OPEN
DISC 3	CD MANUAL	LOAD MOTOR CLOSE

### 7. MD mechanism error message

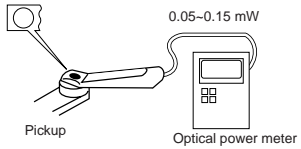
DISPLAY	DESCRIPTION
BLANK DISC	Non Recorded disc
CANT COPY	Inhibit to record by SCMS
CANT EDIT	Inhibit to edit by MD standard
CANT REC	Inhibit to record by disc damage(10 or more defects/recordable cluster is 0)
DISC ERROR**	OR : UTOC read error or FTNO>LTNO (edit/record) permit ALL ERASE only
	DO :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

**Adjustment of CD player**

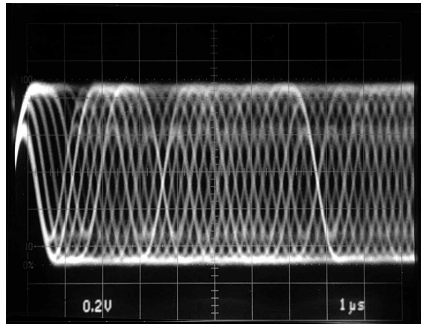
No.	ITEM	INPUT SETTING	OUTPUT SETTING	PLAYER SETTING	ALIGNMENT POINT	ALIGN FOR	FIG.
<b>TEST MODE :</b> While pressing the [DISC 3 PLAY] key, plug the AC power cord into the AC outlet.							
1	LASER POWER	—	Set the sensor section of the optical power meter on the pickup lens.	Press the "PLAY" key to check that the display is "03".	—	On the power from 0.05 to 0.15mW, when the diffraction grating is correctly aligned with the RF level of 0.8Vp-p or more	(a)
2	FOCUS ERROR BIAS	Test disc Type 4	Connect an oscilloscope as follows. (+)side : RF(CN1-1) GND : VC (CN1, 4)	Press the "PLAY" key. Confirm that the display is "05".	VR1	Optimum eye pattern	(b)

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

(a) Laser Power

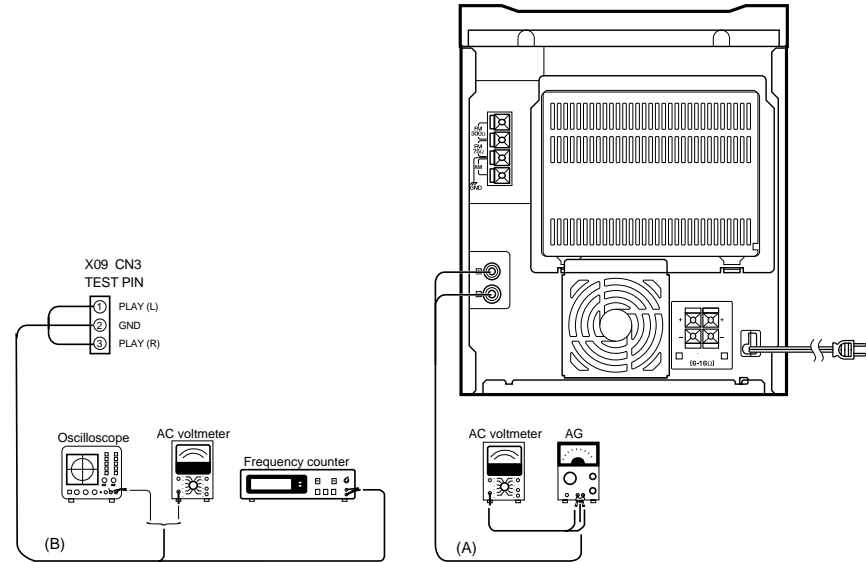


(b) RF signal : AC coupled



- 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.

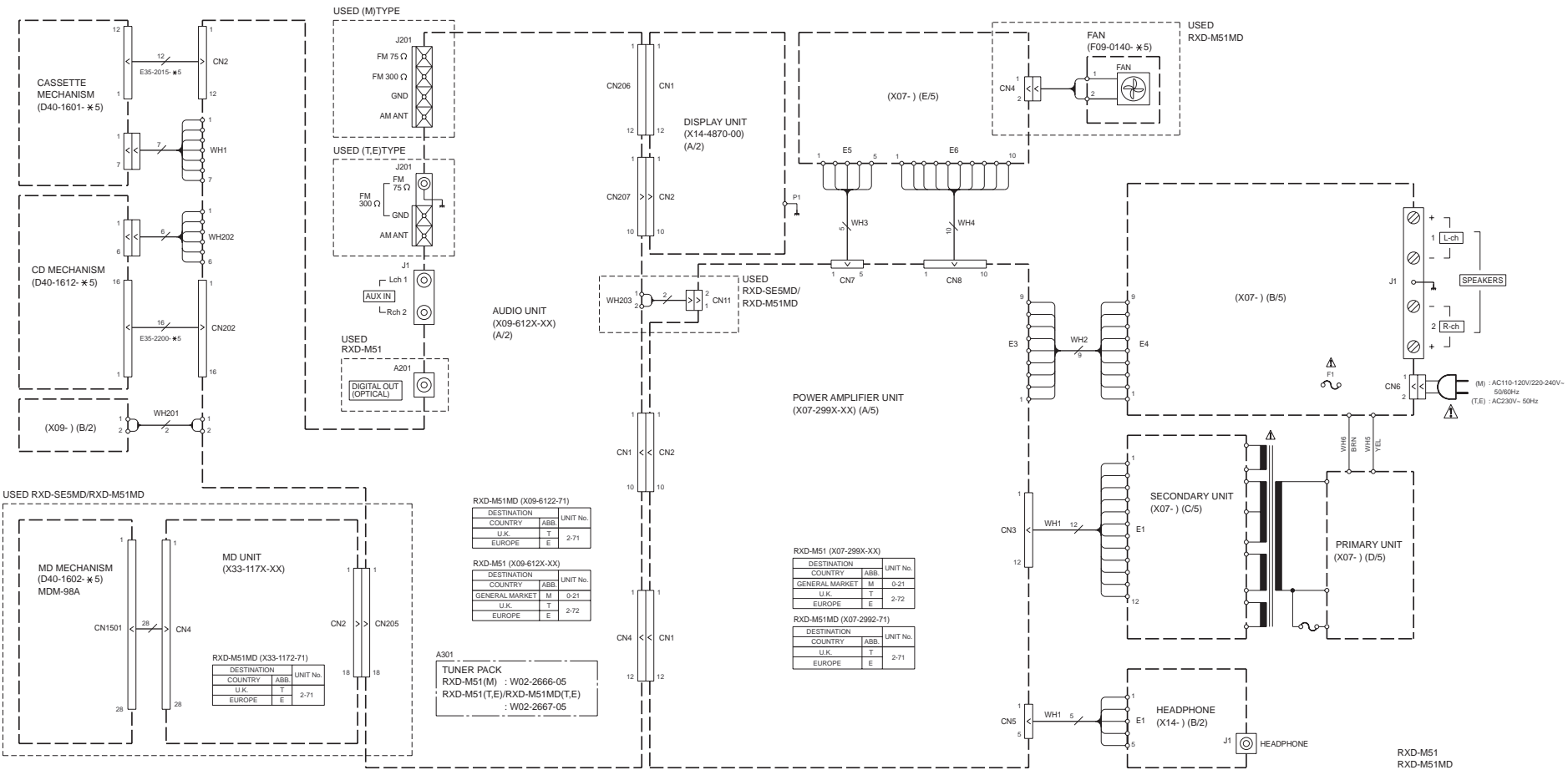
NO.	ITEM	INPUT SETTING	OUTPUT SETTING	CASSETTE TAPE DECK SETTING	ALIGNMENT POINTS	ALIGN FOR	FIG.
<b>Unless otherwise specified, set the respective switches as follows:</b> TAPE : NORMAL DOLBY : OFF I Cassette mechanism unit (Adjustment of the REC / PLAY head)							
(1)	Demagnetization and cleaning	—	—	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 line.	
<b>II PC board adjustment.</b>							
(1)	BIAS CURRENT	(A) Adjust the AG for the output of the DECK to become 12.5kHz -20dBs. 400Hz / 12.5kHz (AC-224)	(B)	REC PLAY	VR3(L) VR4(R)	Record 400Hz and 12.5kHz alternately, and adjust the bias current adjustment potentiometer for the playback levels to become the same.	



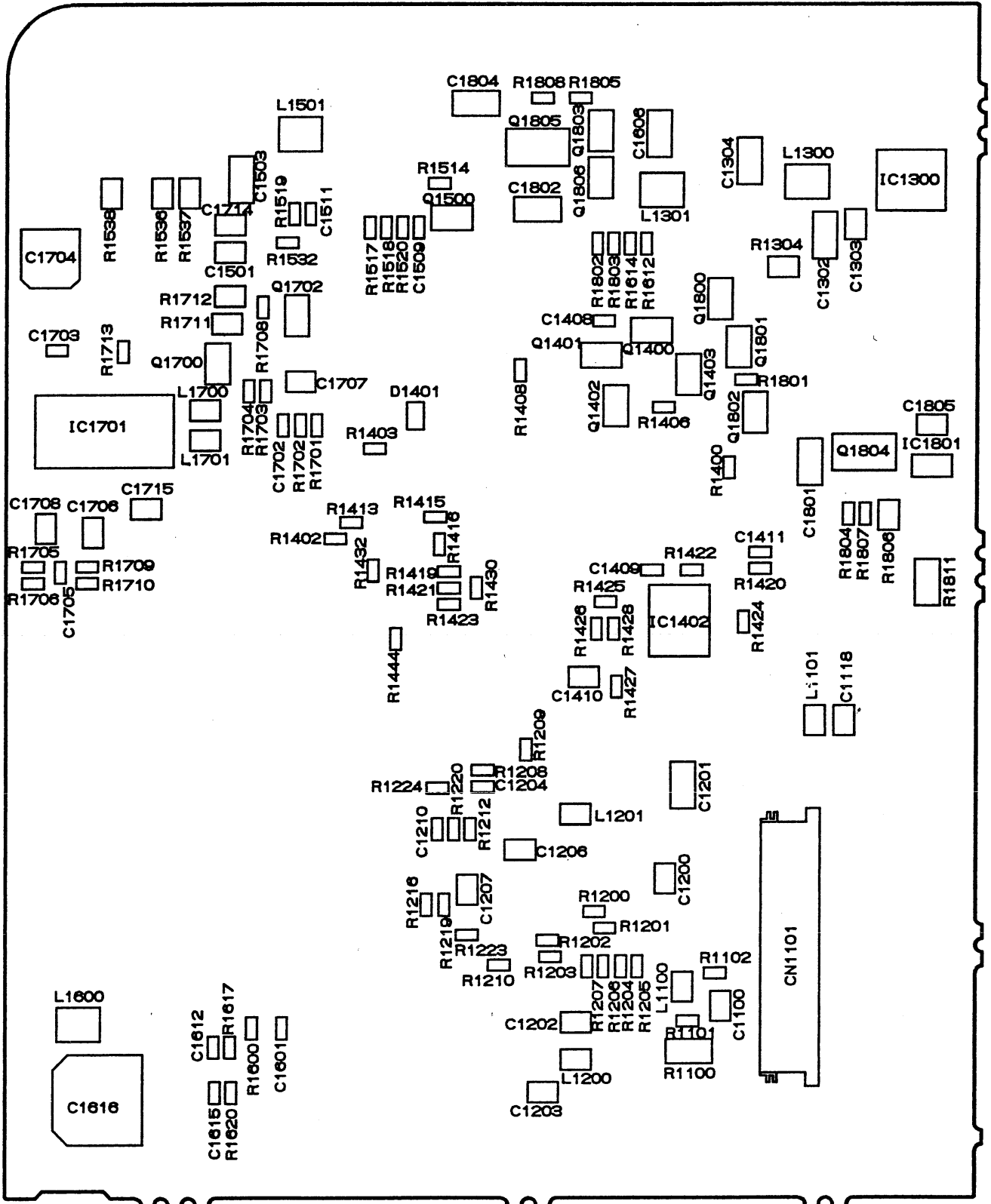
★ The MD Adjustment is listed on page 8 through p10.

# RXD-M51/M51MD

## WIRING DIAGRAM



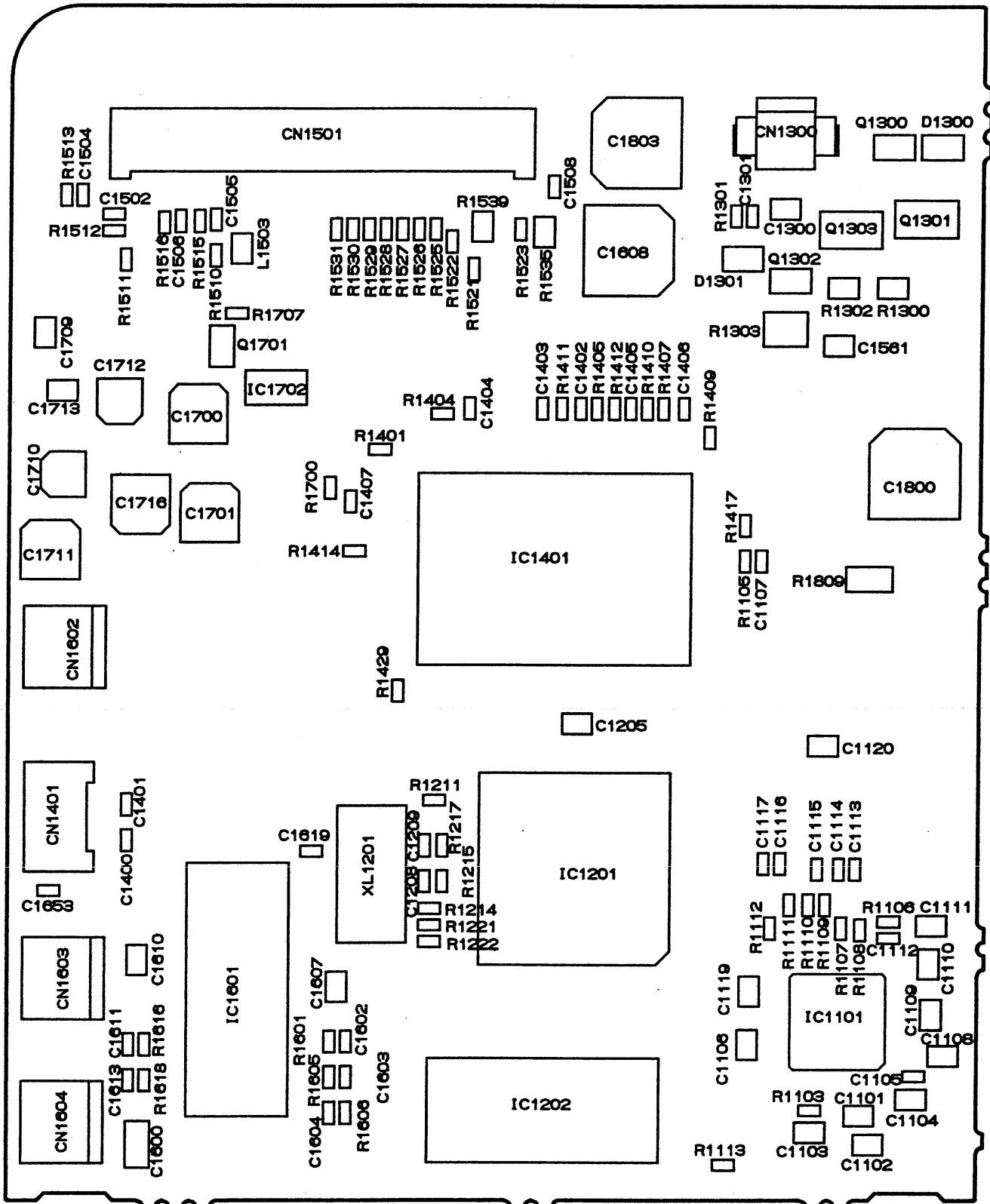
# PC BOARD PARTS LOCATION



MD MAIN PWD-A (TOP VIEW)

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

# PC BOARD PARTS LOCATION



MD MAIN PWB-A (BOTTOM VIEW)

# PC BOARD (Component side view)

1

2

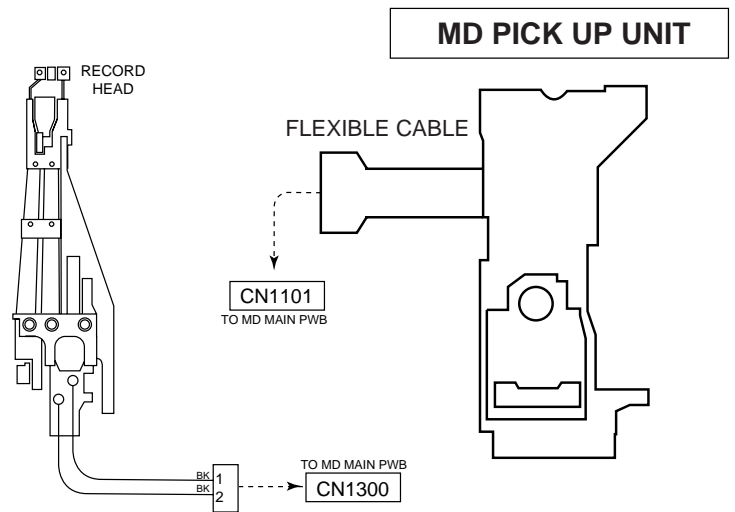
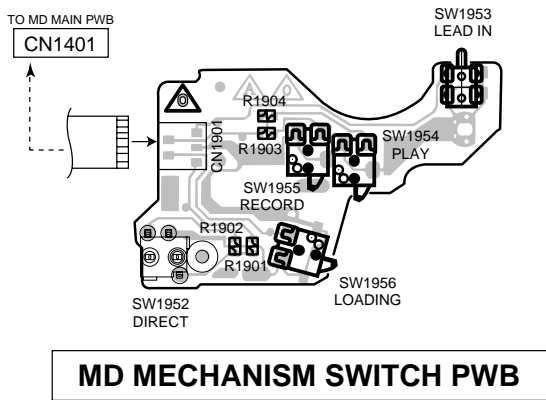
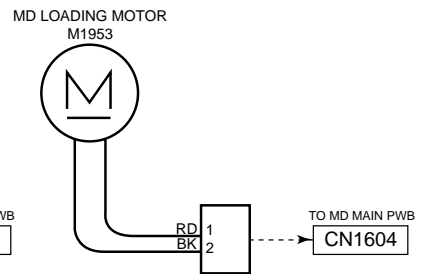
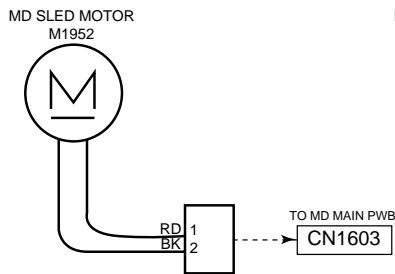
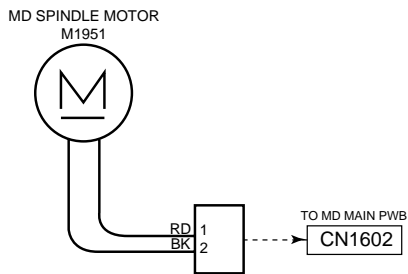
3

4

5

6

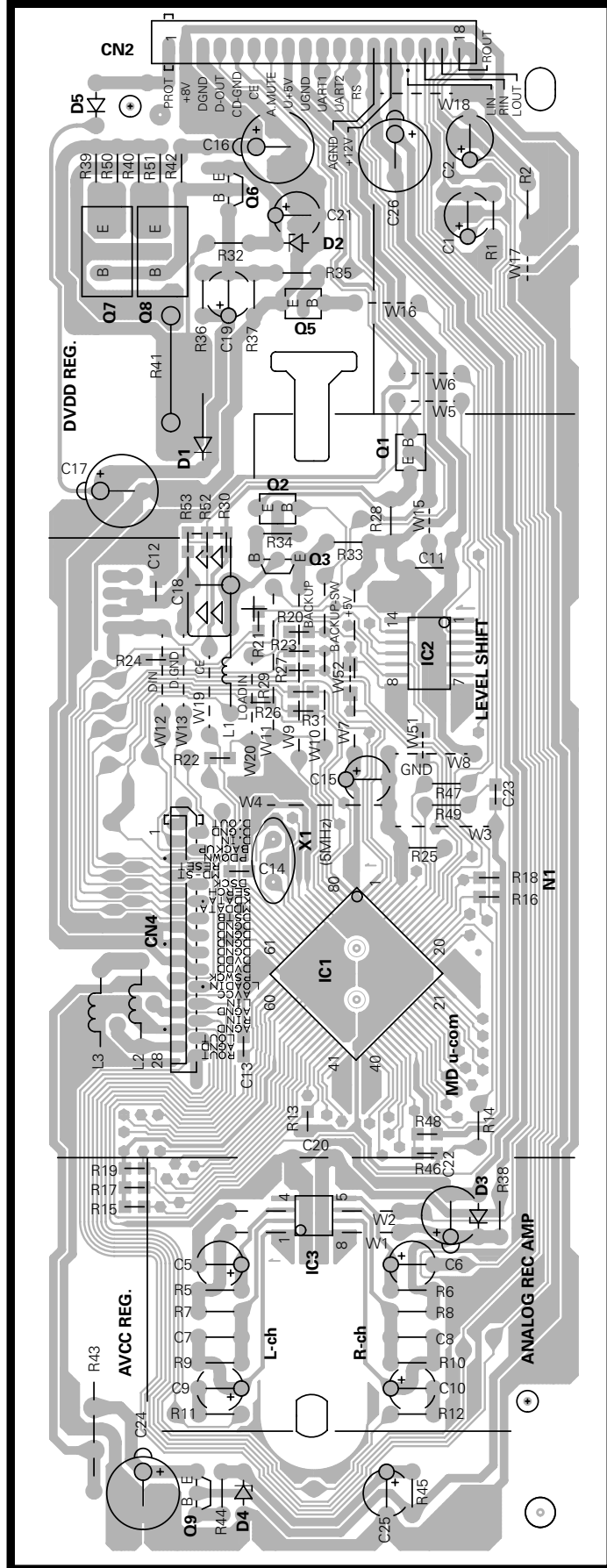
7



# PC BOARD(Component side view)

MD UNIT

X33-1172-71 : T1E1



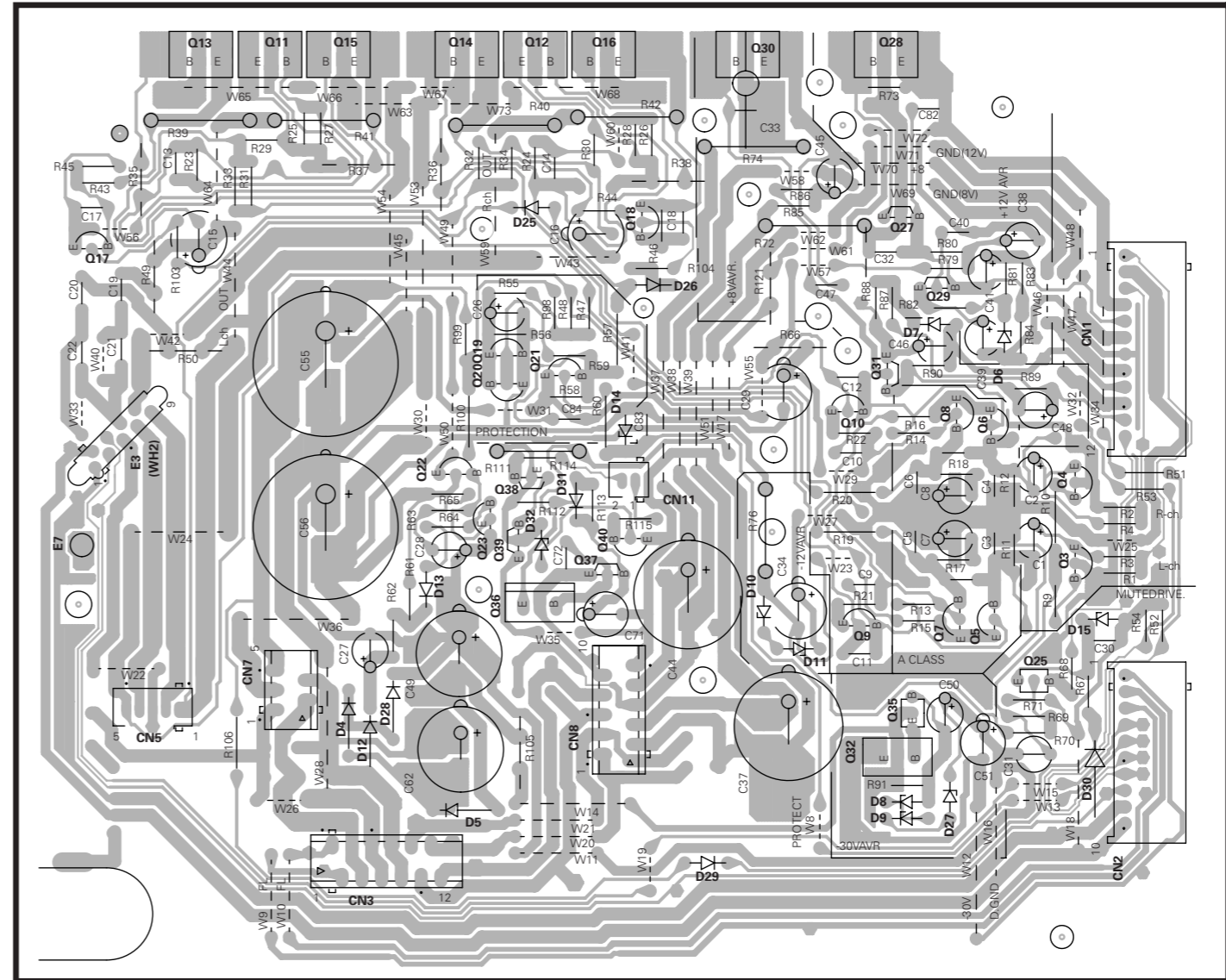
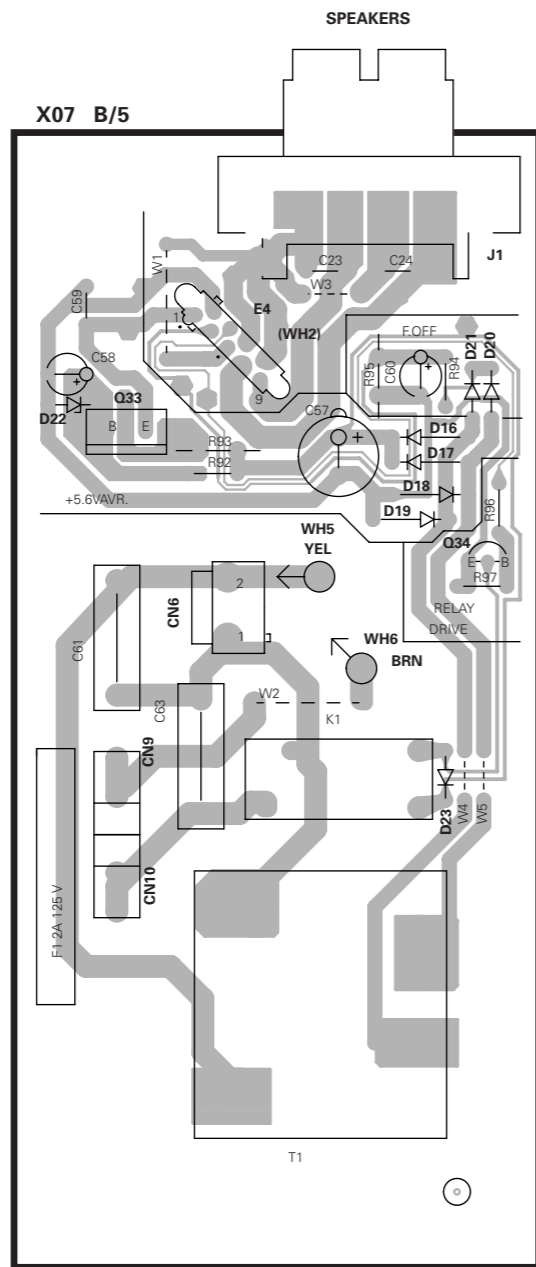
Refer to the schematic diagram for the value of resistors and capacitors.



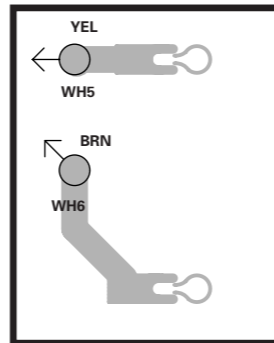
# PC BOARD (Component side view)

# MAIN AMP UNIT

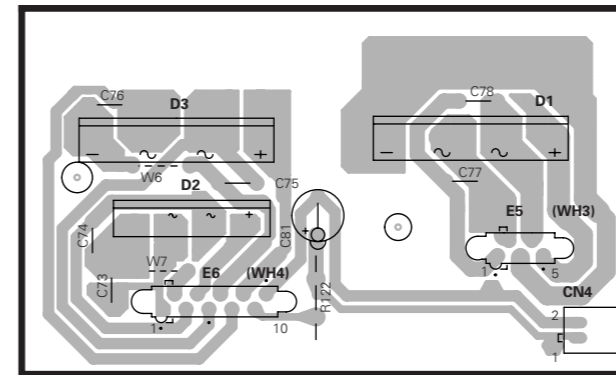
X07-2992-71 A/5 : T1E1 2-72 : T2E2 0-21 : M1



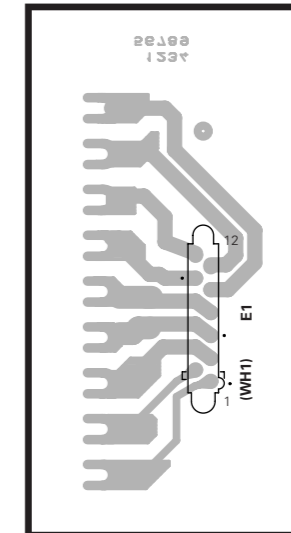
X07 D/5



X07 E/5



X07 C/5



# PC BOARD (Component side view) AUDIO UNIT

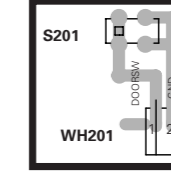
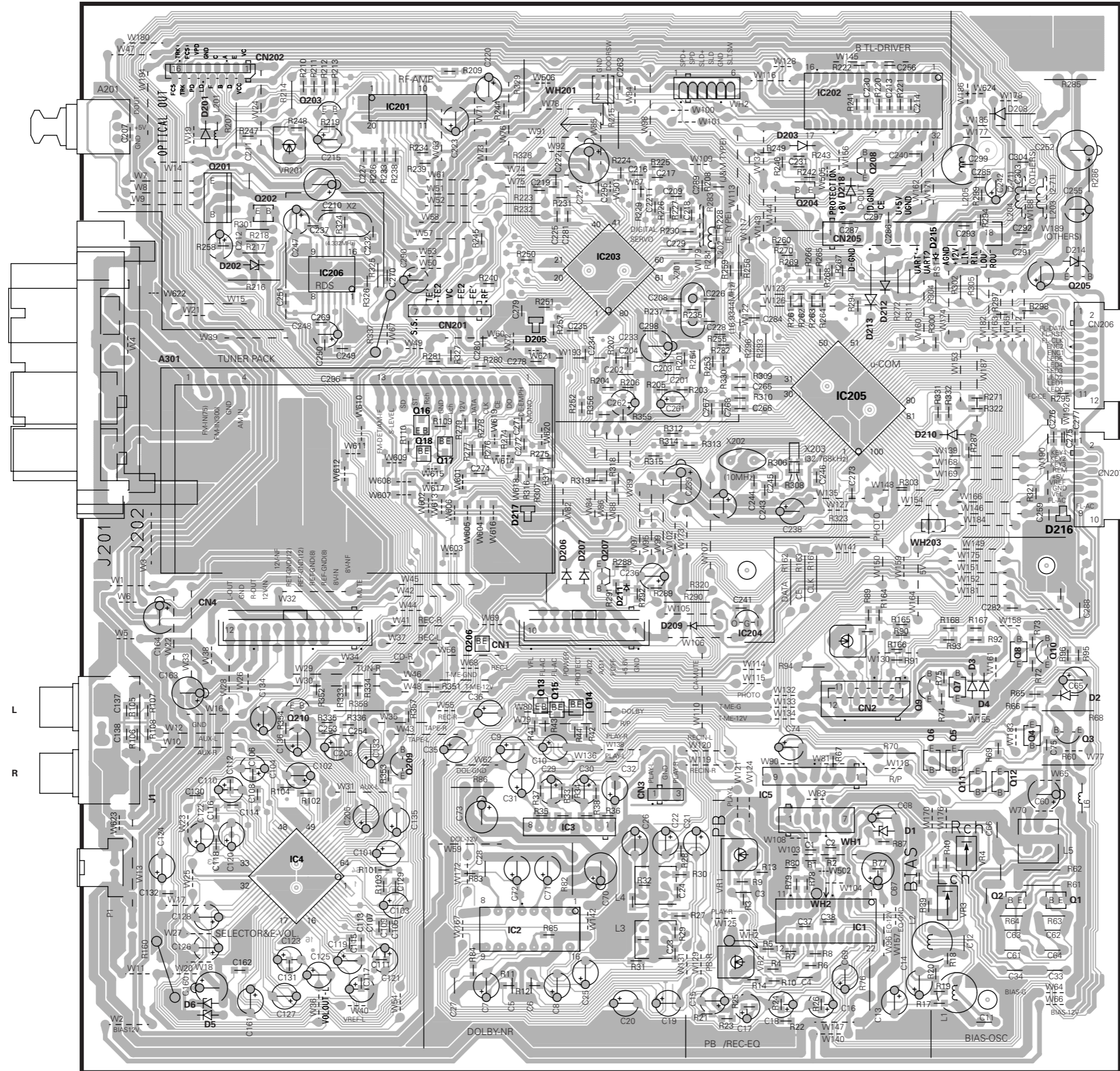
X09-6122-71 A/2: T1E1 2-72: T2E2 0-21: M1

X09 B/2

DIGITAL  
OUT  
OPTICAL

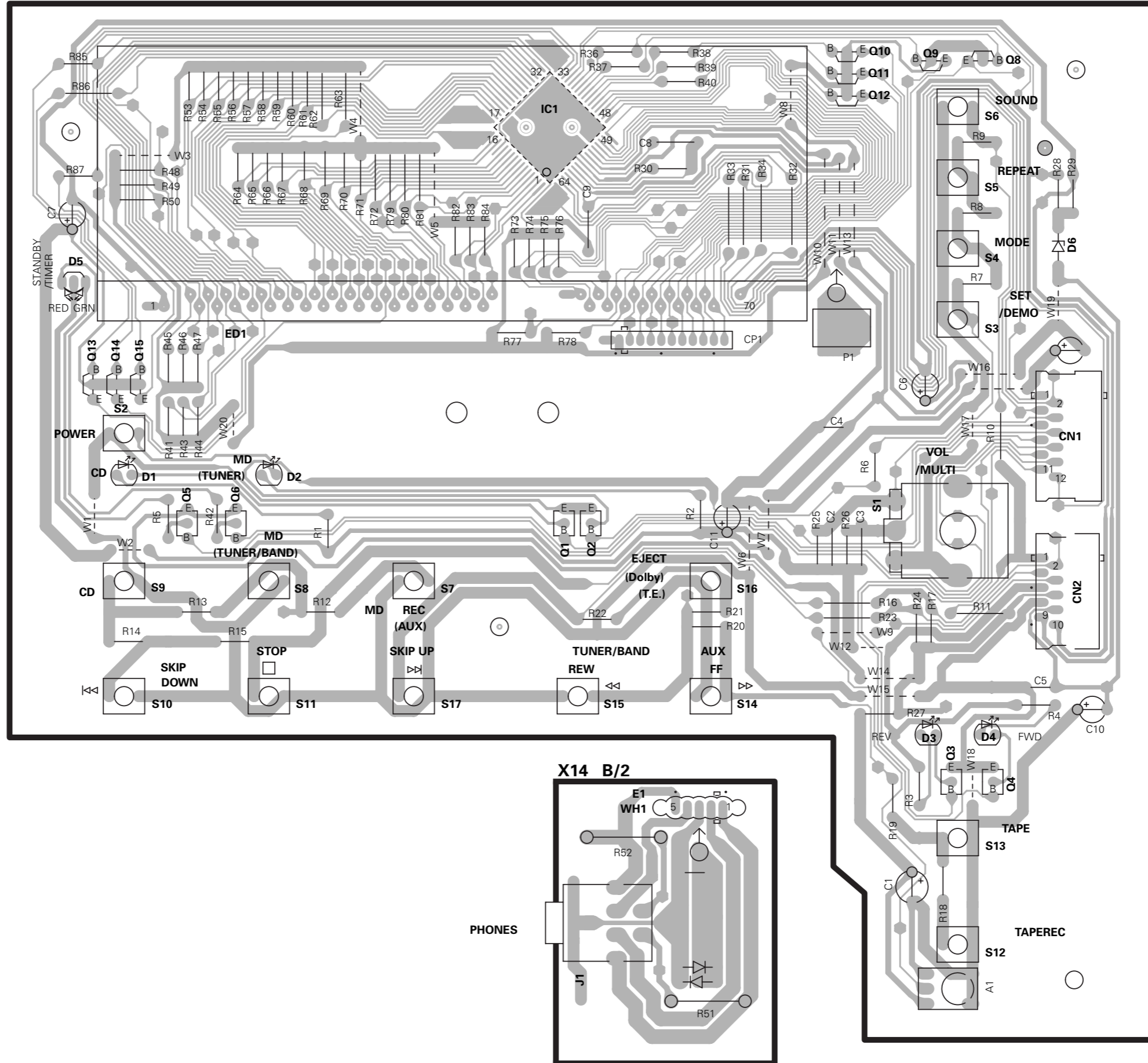
ANTENNA

AUX-IN  
L  
R

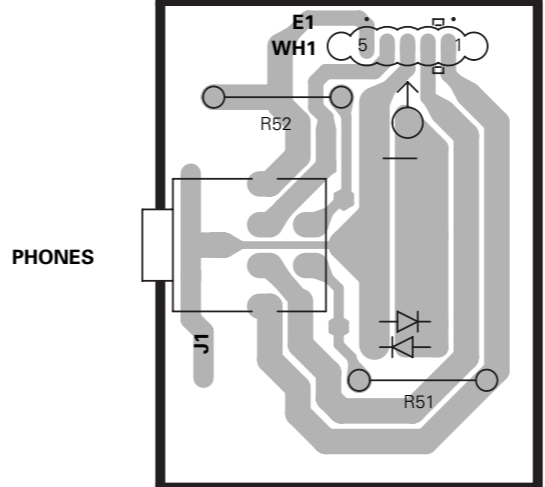


# PC BOARD (Component side view) DISPLAY UNIT

X14-4870-00 A/2



X14 B/2



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

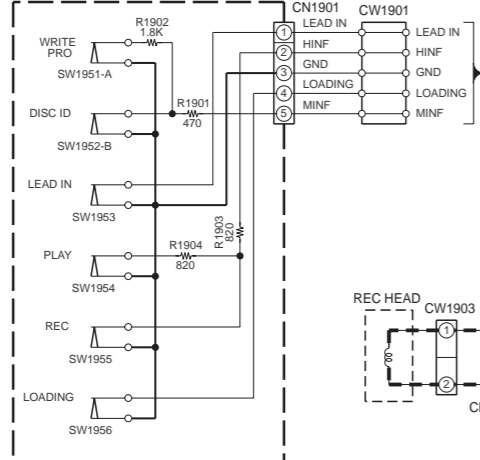
Q1300,1302 : 2SK2909  
 Q1301,1303 : 2SK1473  
 Q1400,1401,1701 : RNC1404  
 Q1402,1403 : RN2404  
 Q1500,1800,1802 : RNC1407  
 Q1700 : 2SC2412KR  
 Q1702,1801 : 2SA1162G  
 Q1803,1806 : RN1406  
 Q1804,1805 : 2SA1314C

D1300,1301 : SB0209CP  
 D1401 : SB00703Q

--- DIGITAL LINE  
 ——— SIGNAL LINE  
 ——— GND LINE  
 <-+B < +B LINE

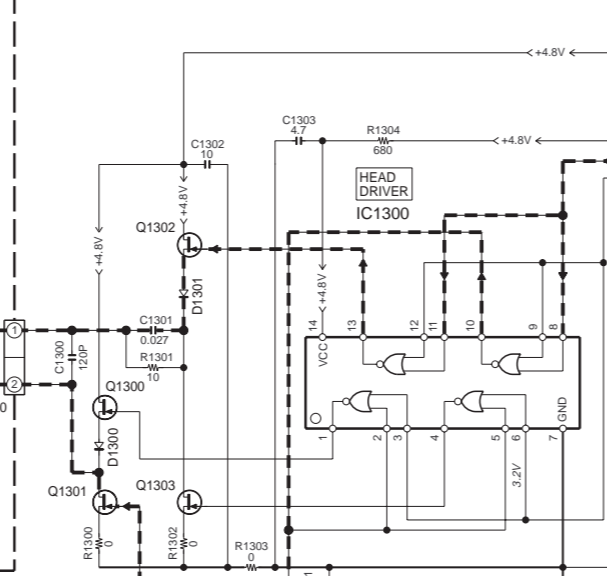
NOT USED RXD-M51(M,T,E)

MECHA. (SW PWB)

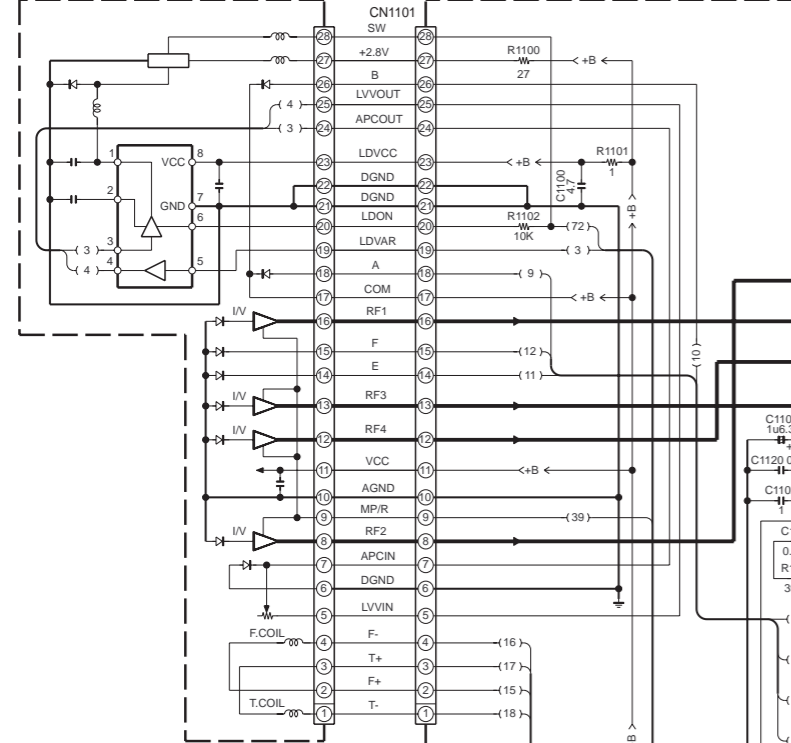


MD MECHANISM (D40-1602- $\times$ 5) MDM-98A

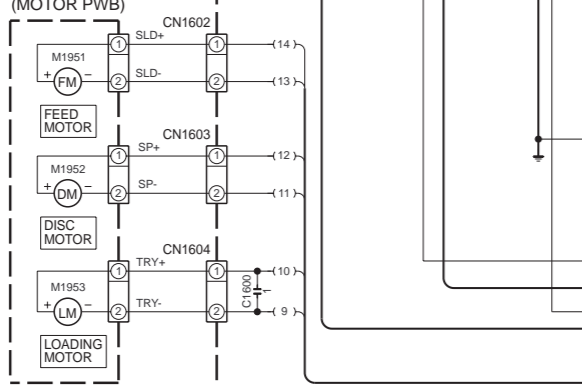
REC HEAD CW1903



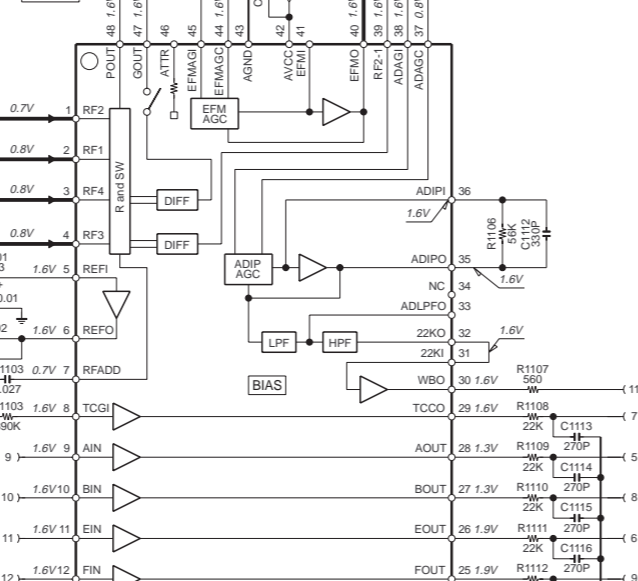
PICKUP



MECHA. (MOTOR PWB)



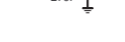
IC1101 RF AMP



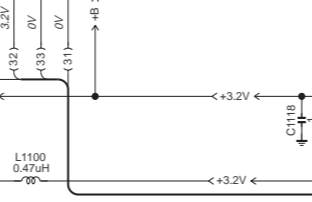
EFM OUT



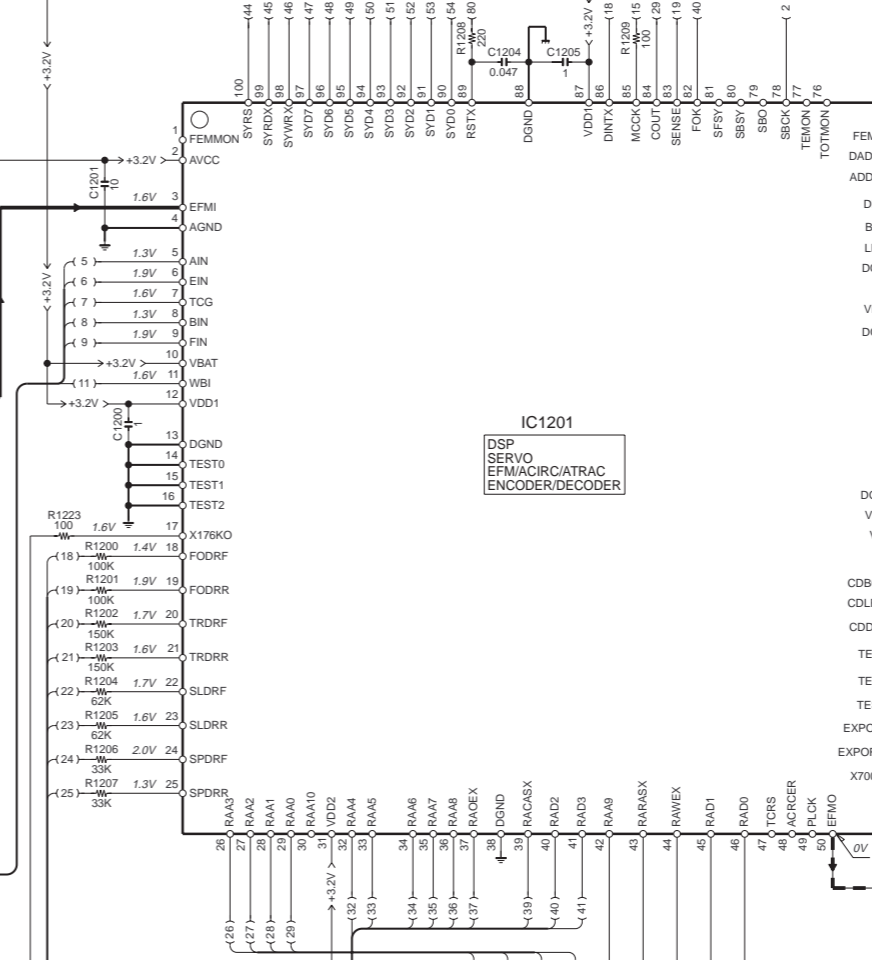
LOGIC



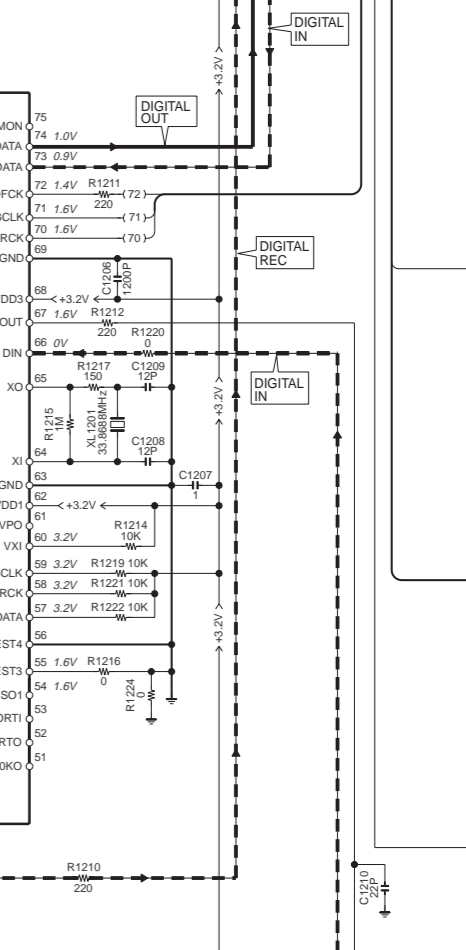
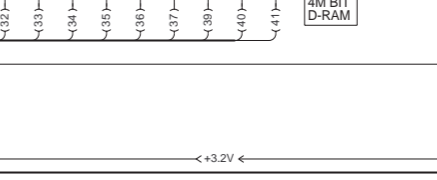
IC1300 HEAD DRIVER



IC1201 DSP SERVO EFM/ACIRC/ATRAC ENCODER/DECODER

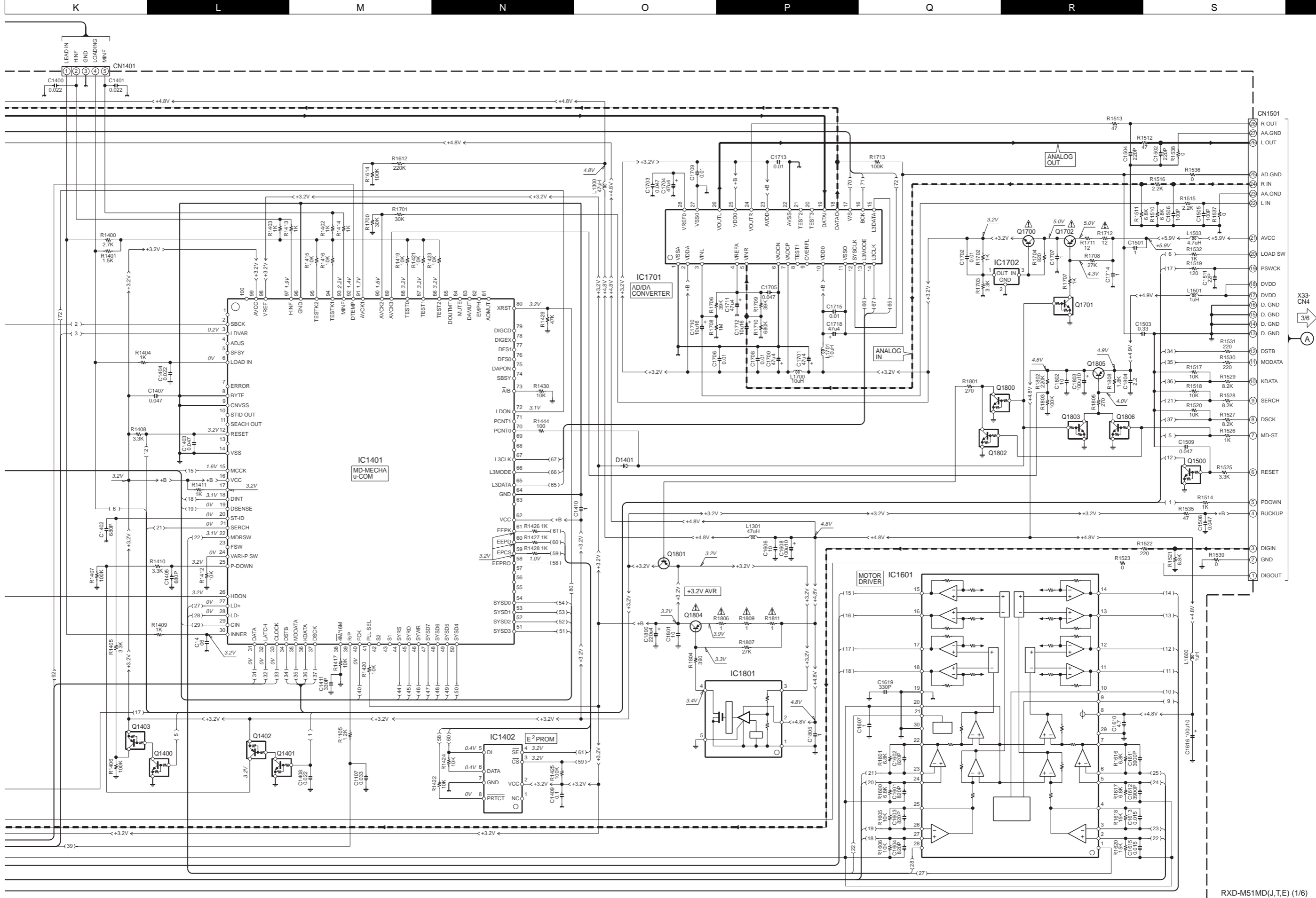


IC1202 4M BIT D-RAM



**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  $\Delta$  indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

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



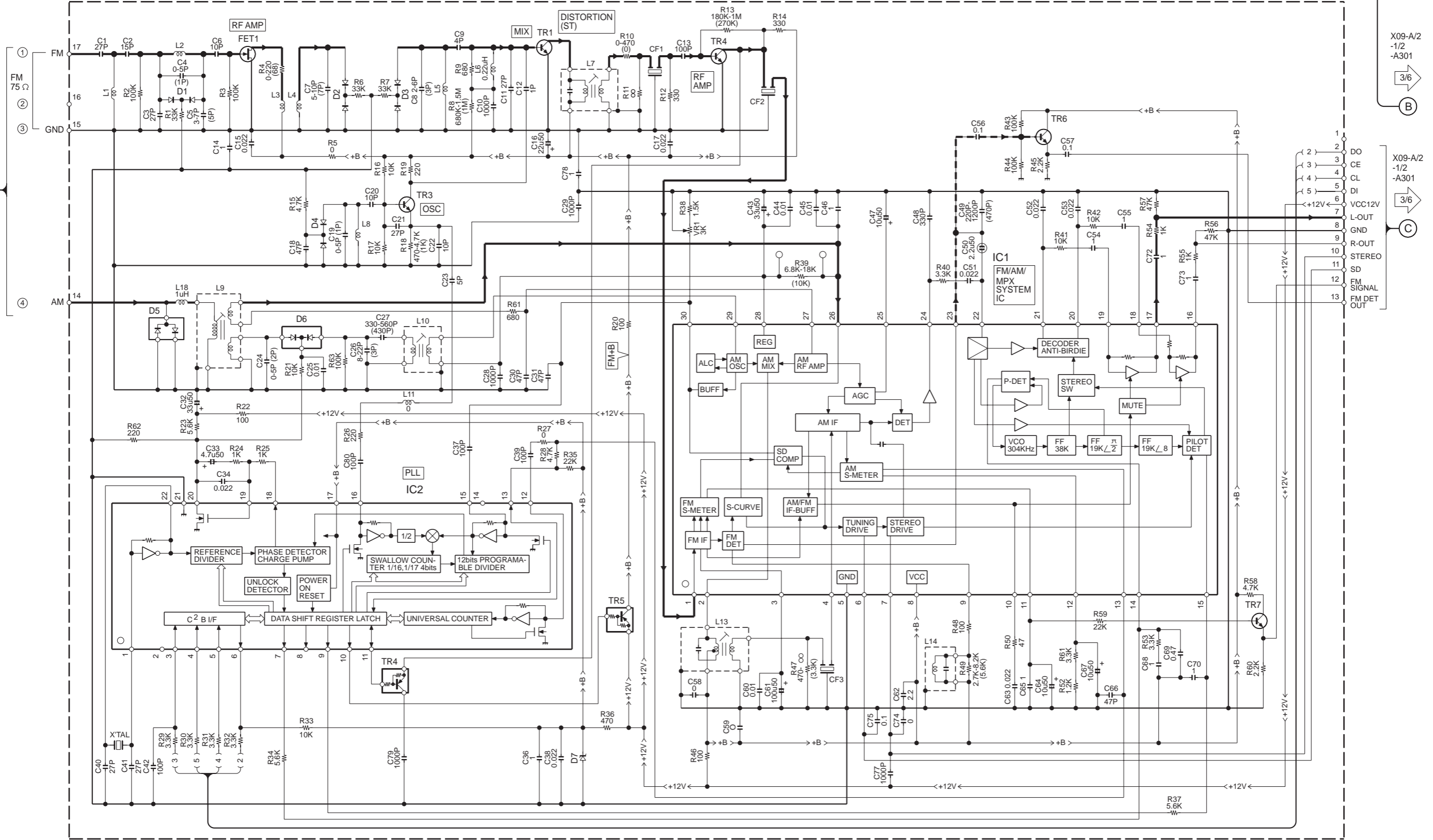
RXD-M51MD(J,T,E) (1/6)

# RXD-M51/M51MD

Y39-2980-51

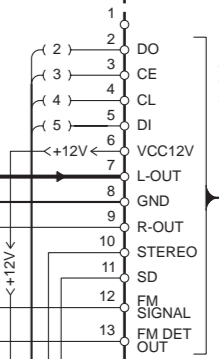
KENWOOD

TUNER PACK  
(W02-2667-05) RXD-M51(T,E)/RXD-M51MD(T,E) TYPE



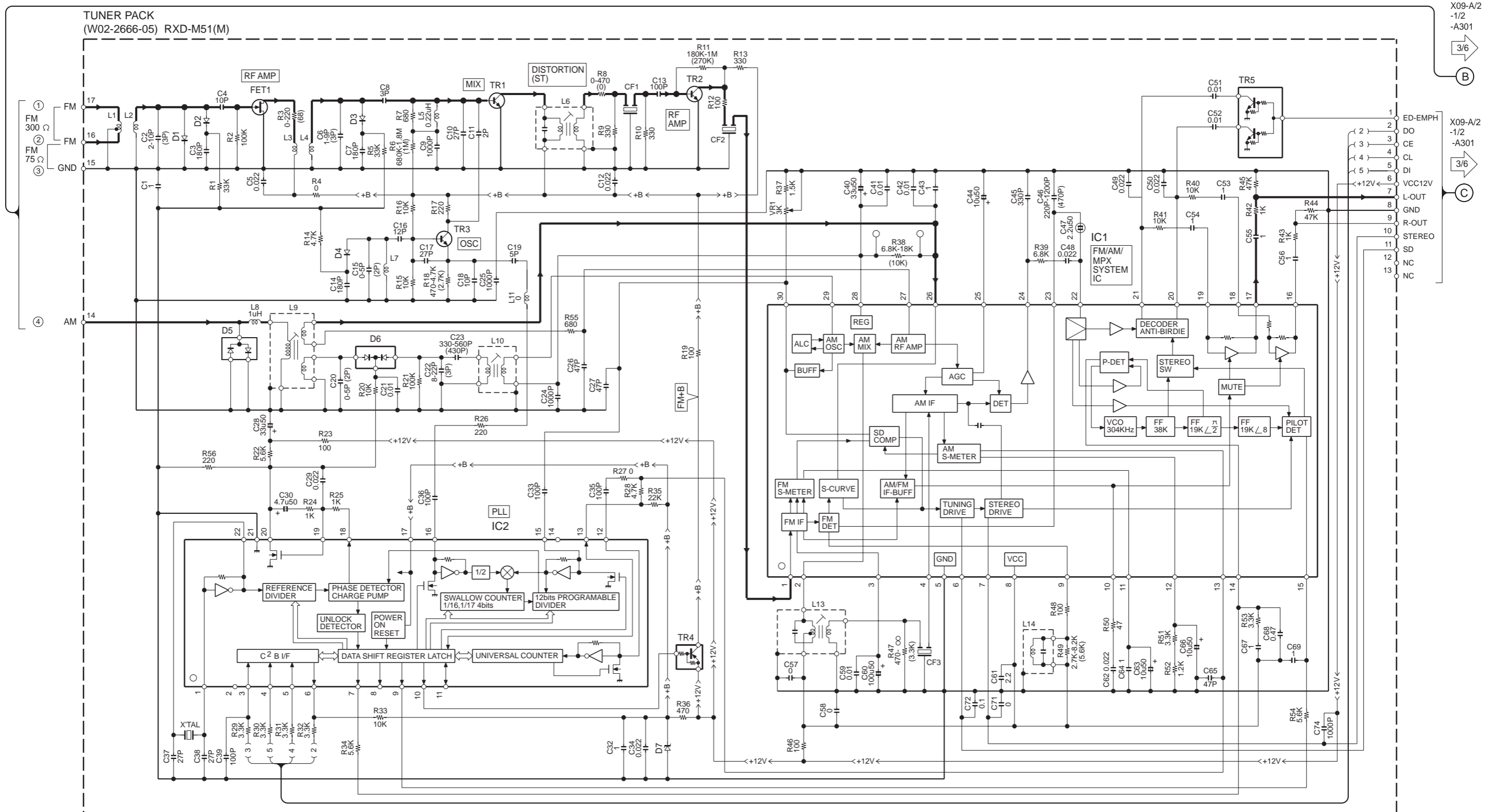
X09-A/2  
-1/2  
-A301  
3/6  
B

X09-A/2  
-1/2  
-A301  
3/6  
C



— SIGNAL LINE  
— GND LINE  
— +B LINE

- |                       |                        |                |
|-----------------------|------------------------|----------------|
| TR1 : 2SC271401 or 02 | D1 : HSU277            | IC1 : LA1837M  |
| TR2 : 2SC4098Q or P   | D2-4 : BB804SF3 or 2,4 | IC2 : LC72131M |
| TR3 : 2SC2413KP or N  | D5 : DA204U            |                |
| TR4,5 : DTA114EUA     | D6 : SVC347S or T      |                |
| TR6,7 : 2SC4081R or Q | D7 : UDZS5.1B          |                |
| FET1 : 2SK302GR       |                        |                |



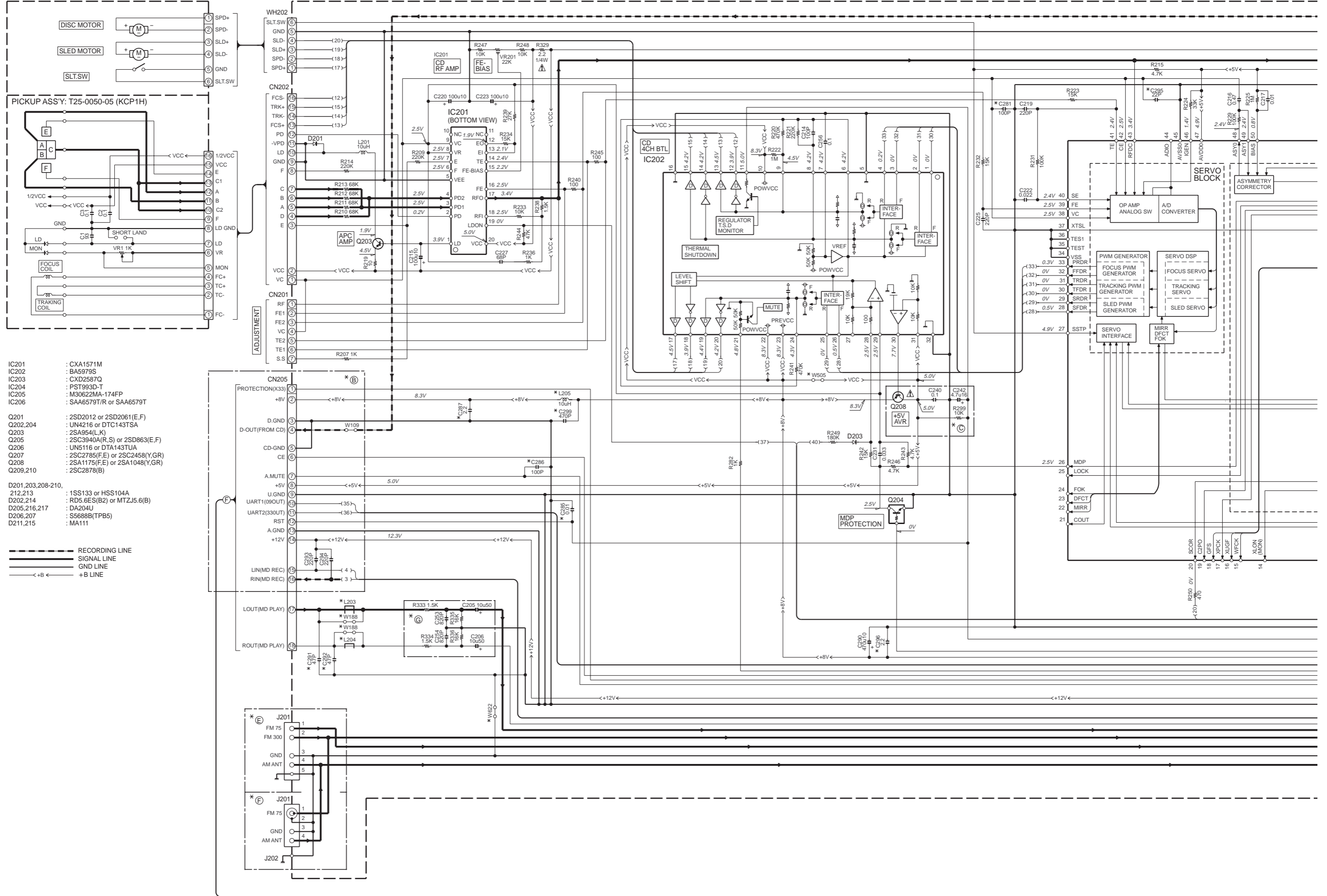
- |                       |                   |                |
|-----------------------|-------------------|----------------|
| TR1 : 2SC271401 or 02 | D1 : HSU277       | IC1 : LA1837M  |
| TR2 : 2SC4098Q or P   | D2-4 : HVU202     | IC2 : LC72131M |
| TR3 : 2SC2413KP or N  | D5 : DA204U       |                |
| TR4 : DTA114EUA       | D6 : SVC347S or T |                |
| TR5 : UHM11           | D7 : UDZS5.1B     |                |
| FET1 : 2SK302GR       |                   |                |

RXD-M51(M,T,E) (2/6)  
RXD-M51MD(T,E) (2/6)

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

**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  $\Delta$  indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.



- IC201 : CXA1571M
- IC202 : BA5979S
- IC203 : CXD2587Q
- IC204 : PST993D-T
- IC205 : M30622MA-174FP
- IC206 : SAA6579T/R or SAA6579T

- Q201 : 2SD2012 or 2SD2061(E,F)
- Q202,204 : UN4216 or DTC143TSA
- Q203 : 2SA954(L,K)
- Q205 : 2SC3940A(R,S) or 2SD863(E,F)
- Q206 : UN5116 or DTA143TUA
- Q207 : 2SC2785(F,E) or 2SC2458(Y,GR)
- Q208 : 2SA1175(F,E) or 2SA1048(Y,GR)
- Q209,210 : 2SC2878(B)

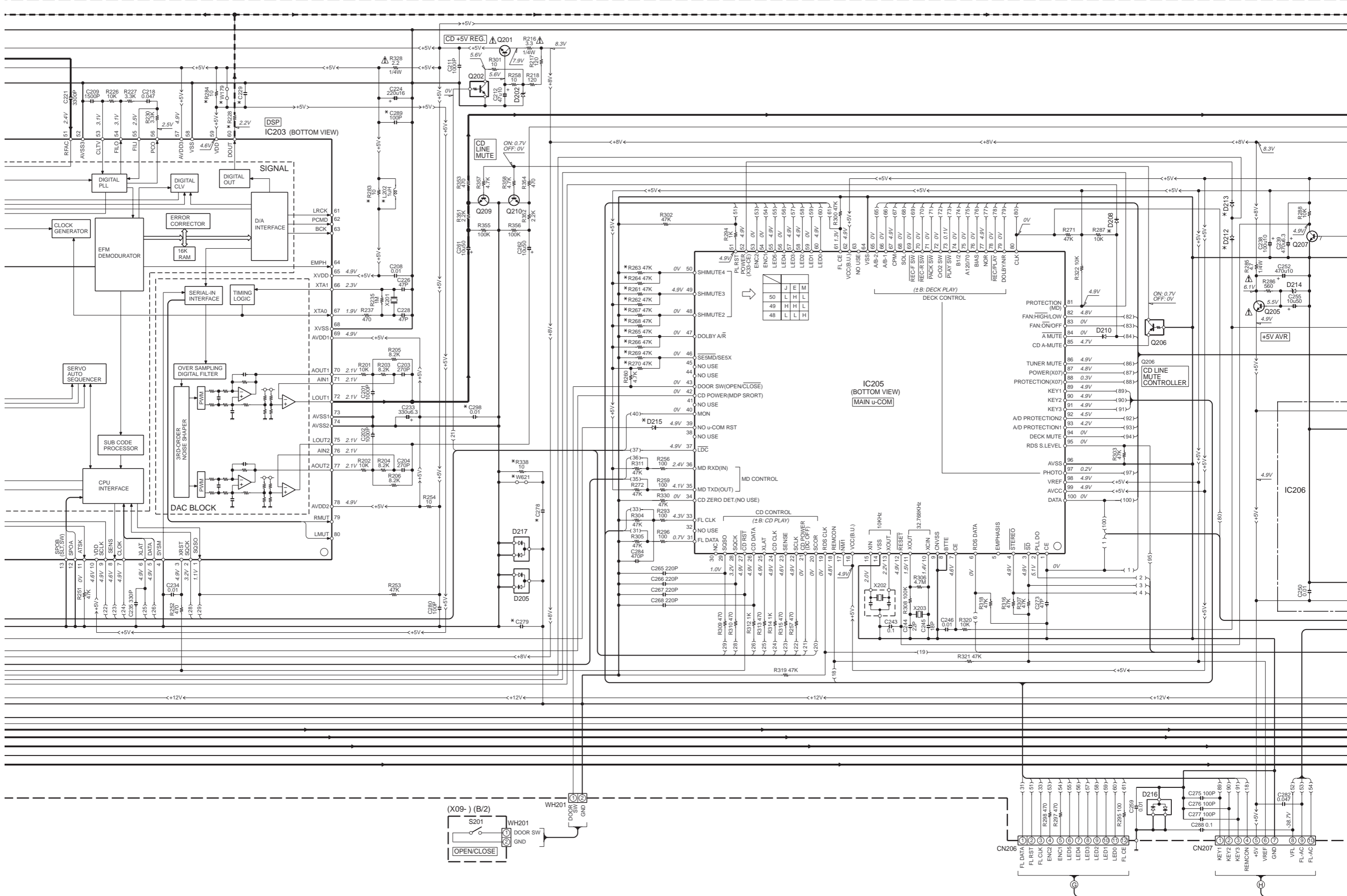
- D201,203,208-210, 212,213 : 1SS133 or HSS104A
- D202,214 : RD5.6ES(B2) or MTZJ5.6(B)
- D205,216,217 : DA204U
- D206,207 : S5688B(TPB5)
- D211,215 : MA111

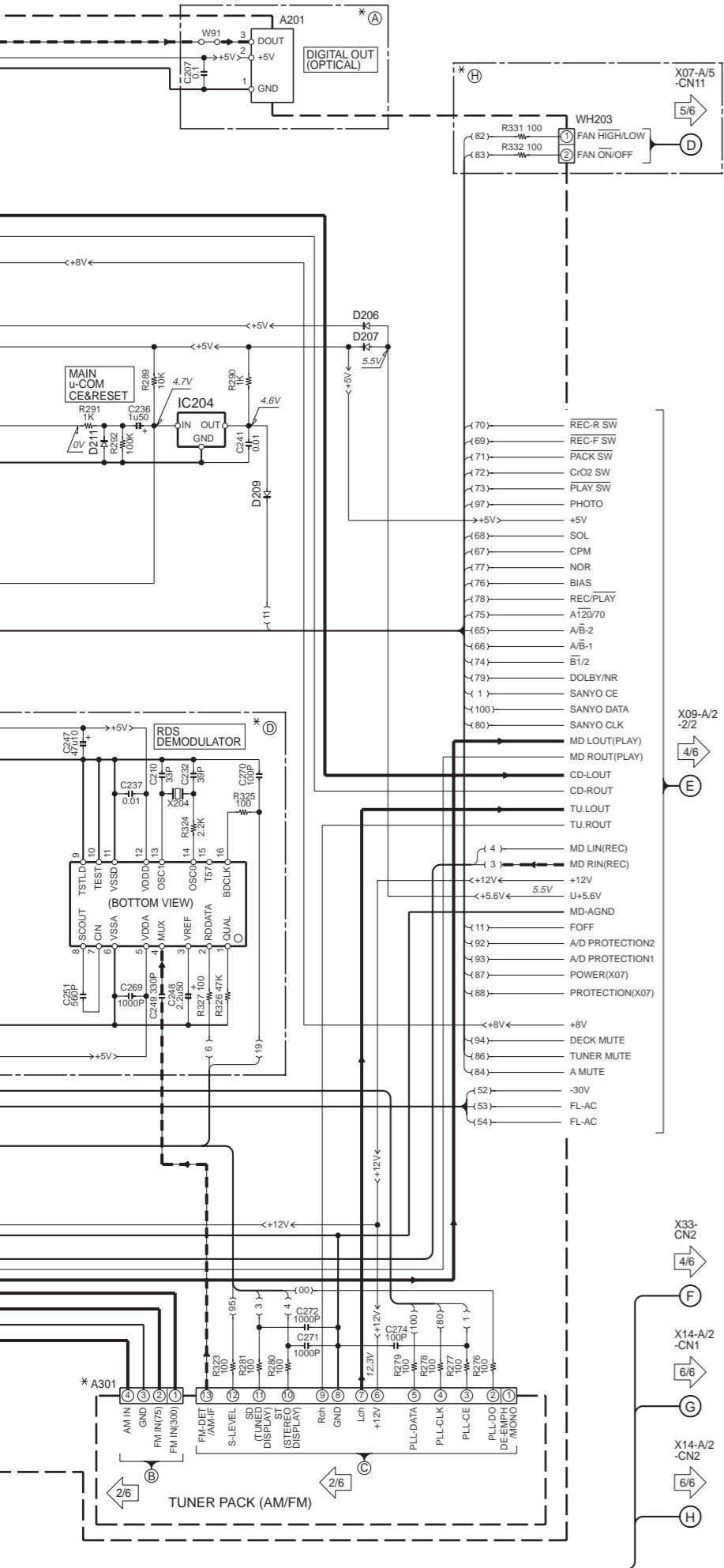
- - - - - RECORDING LINE  
 \_\_\_\_\_ SIGNAL LINE  
 ..... GND LINE  
 - · - · - +B LINE

6

7







RXD-M51MD (X09-6122-71)

DESTINATION	COUNTRY	ABB.	UNIT No.	A	B	C	D	F	G	H	W179, 622	W188, 189, 505, 621	L202-205	D208, 212, 213, 215	J201
U.K.	T		2-71	NO		YES					YES	NO	YES	YES	E70-0052
EUROPE	E		2-71	NO		YES					YES	NO	YES	YES	E70-0052

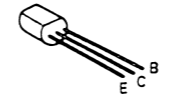
DESTINATION	COUNTRY	ABB.	UNIT No.	R228	R261, 263, 265, 268, 270, 283, 284	R262, 264, 266, 267, 269, 338	C229, 278	C279	C281, 285-287, 289, 291, 292, 295, 296, 298, 299	A301
U.K.	T		2-71	1.6K	NO	YES	100P	220P	YES	W02-2667-05
EUROPE	E		2-71	1.6K	NO	YES	100P	220P	YES	W02-2667-05

RXD-M51 (X09-612X-XX)

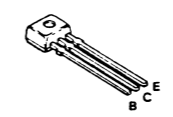
DESTINATION	COUNTRY	ABB.	UNIT No.	A	B	C	D	F	G	H	W179, 621	W188, 189, 622	W505	L202	L203-205	D208, 212, 213, 215	J201
GENERAL MARKET	M		0-21				NO	YES	NO		NO	NO	YES	NO	NO	NO	E70-0107
U.K.	T		2-72	YES	NO		YES	NO	YES		NO	NO	YES	YES	NO	NO	E70-0052
EUROPE	E		2-72	YES	NO		YES	NO	YES		NO	NO	YES	YES	NO	NO	E70-0052

DESTINATION	COUNTRY	ABB.	UNIT No.	R228	R261, 263, 268, 283, 284	R262, 264, 267	R265, 269, 338	R266, 270	C229	C278	C279	C281, 289	C285-287, 291, 292, 295, 296, 299	A301
GENERAL MARKET	M		0-21		YES	NO	NO	YES	0.01	NO	NO	NO	NO	W02-2666-05
U.K.	T		2-72	220	NO	YES	NO	YES	100P	470P	100P	YES	NO	W02-2667-05
EUROPE	E		2-72	220	NO	YES	NO	YES	100P	470P	100P	YES	NO	W02-2667-05

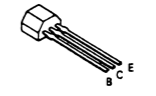
- 2SA1286-T11
- 2SA954
- 2SA992
- 2SC1845
- 2SC2003
- 2SC2878
- 2SC3940A
- 2SD863



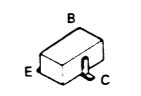
- 2SA1175
- 2SC2785



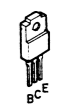
- DTA124ESA
- DTA143TSA
- DTC124ESA
- DTC143TSA
- UN4112
- UN4116
- 2SA1048
- 2SC1740S
- 2SC2458



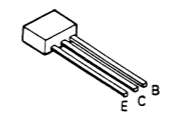
- DTC143TUA
- RN1406
- RN2404
- UN5116
- UN5216



- 2SB1370
- 2SD2061



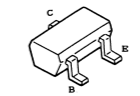
- UN4212
- UN4216



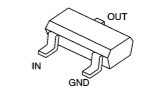
- 2SB1375
- 2SD2012



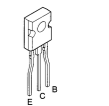
- 2SD1757K



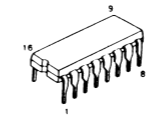
- DTA143TUA



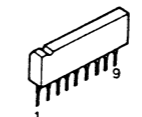
- 2SC4137F50



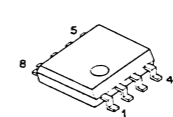
- HA12136A



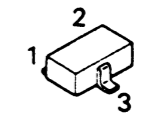
- BA3126N



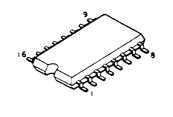
- NJM4565M



- DA204U



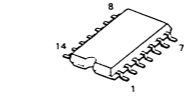
- SAA6579T



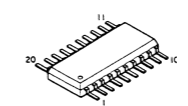
**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric 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 PLAY unless otherwise specified; The value shown in ( ) is the voltage measured at the moment of STOP.

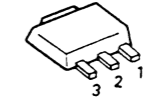
- TC74HCT7007AF



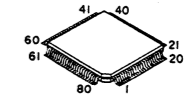
- CXA1571M



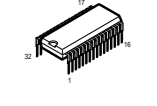
- NJM431U



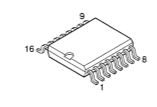
- CXD2587Q



- BA5979S



- SAA6579T/R

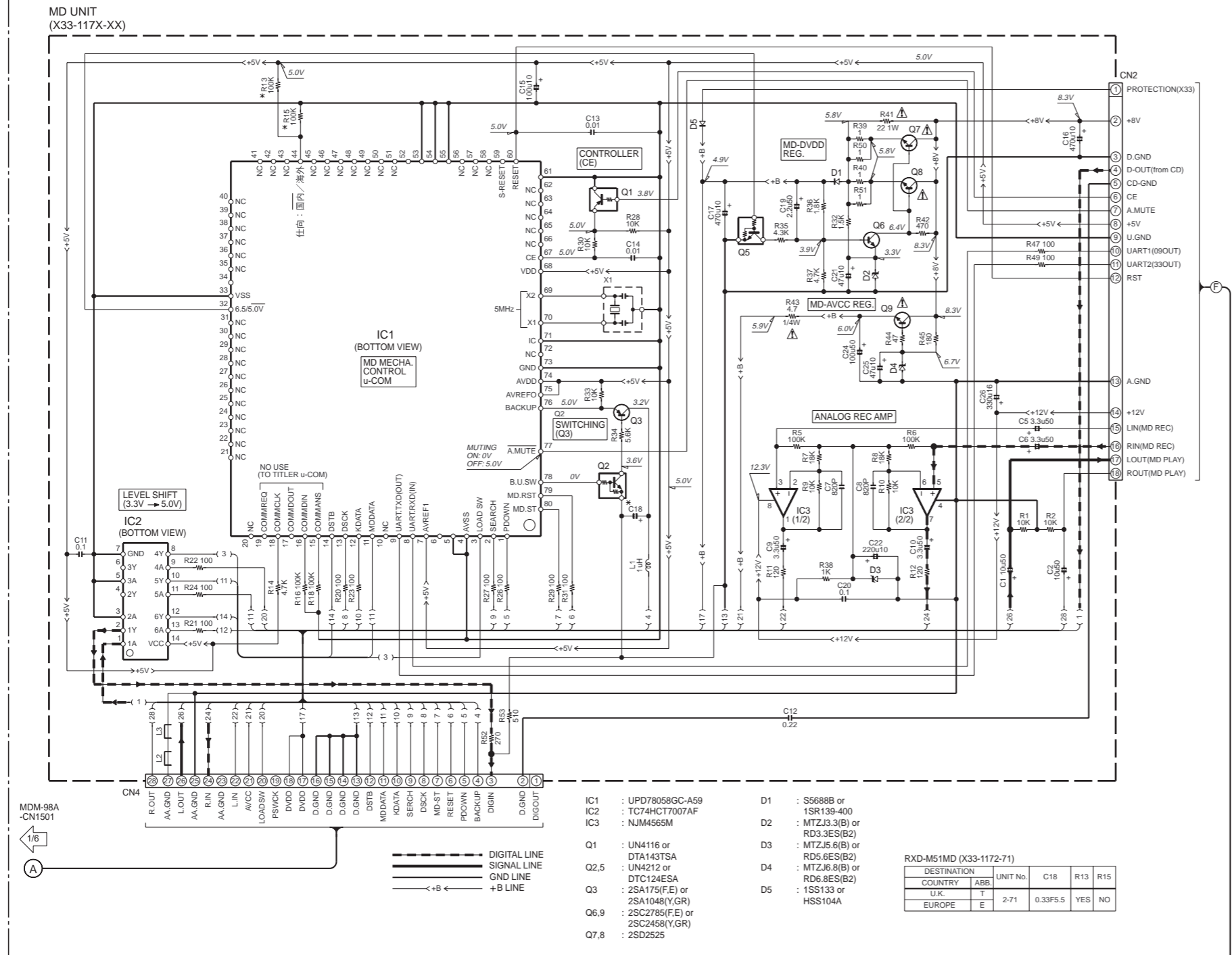


RXD-M51MD(T,E) (3/6)  
RXD-M51(M,T,E) (3/6)

Y39-2980-51

**RXD-M51/M51MD**

**KENWOOD**



MDM-98A -CN1501

(A)

X09-A/2 -1/2

(E)

X09-A/2 -1/2 -CN205

(F)

**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  $\Delta$  indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter. The measurement value may vary depending on the measuring instruments used or on the product. Refer to the voltage during 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.



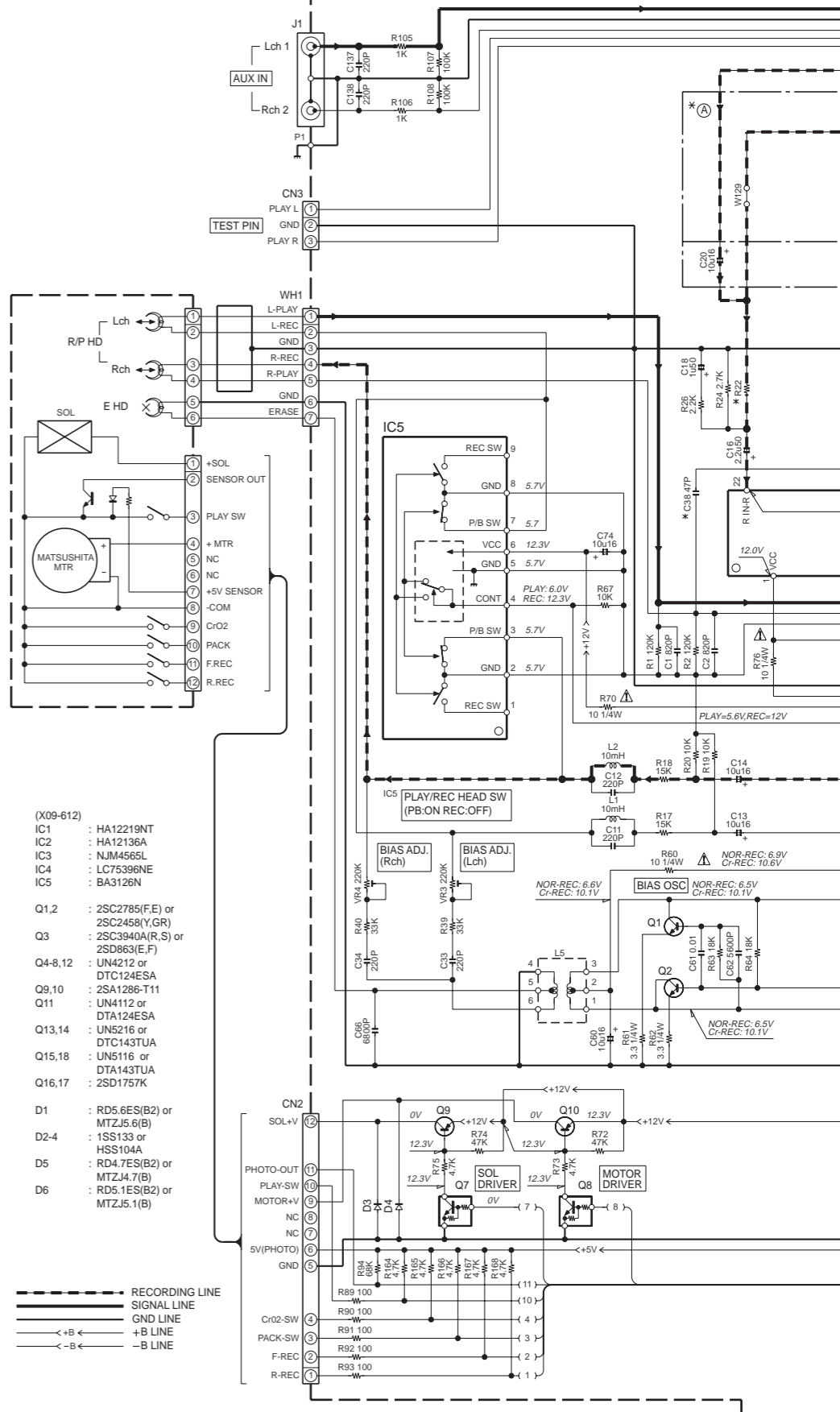
- IC1 : UPD78058GC-A59
- IC2 : TC74HCT7007AF
- IC3 : NJM4565M
- Q1 : UN4116 or DTA143TSA
- Q2,5 : UN4212 or DTC124ESA
- Q3 : 2SA175(F,E) or 2SA1048(Y,GR) or 2SC2785(F,E) or 2SC2458(Y,GR)
- Q6,9 : 1SS133 or HSS104A
- Q7,8 : 2SD2525
- D1 : S5688B or 1SR139-400
- D2 : MTZJ3.3(B) or RD3.3ES(B2)
- D3 : MTZJ5.6(B) or RD5.6ES(B2)
- D4 : MTZJ6.8(B) or RD6.8ES(B2)
- D5 : 1SS133 or HSS104A

RXD-M51MD (X33-1172-71)					
DESTINATION	COUNTRY	ABB.	UNIT No.	C18	R13 R15
U.K.	T		2-71	0.33F5.5	YES NO
EUROPE	E				

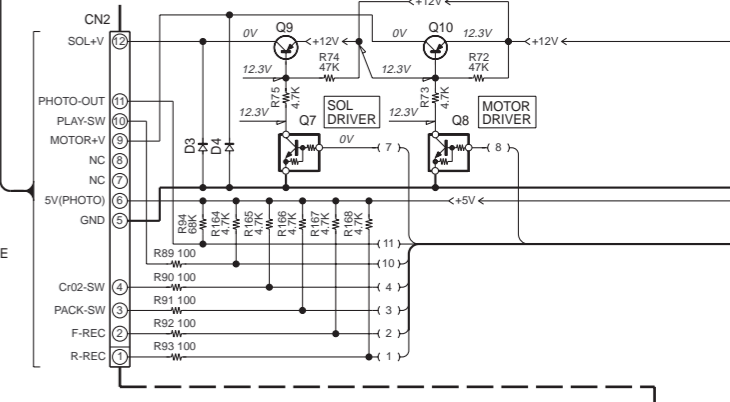
- (X09-612)
- IC1 : HA12219NT
- IC2 : HA12136A
- IC3 : NJM4565L
- IC4 : LC75396NE
- IC5 : BA3126N
- Q1,2 : 2SC2785(F,E) or 2SC2458(Y,GR)
- Q3 : 2SC3940A(R,S) or 2SD863(E,F)
- Q4-8,12 : UN4212 or DTC124ESA
- Q9,10 : 2SA1286-T11
- Q11 : UN4112 or DTA124ESA
- Q13,14 : UN5216 or DTC143TUA
- Q15,18 : UN5116 or DTA143TUA
- Q16,17 : 2SD1757K
- D1 : RD5.6ES(B2) or MTZJ5.6(B)
- D2-4 : 1SS133 or HSS104A
- D5 : RD4.7ES(B2) or MTZJ4.7(B)
- D6 : RD5.1ES(B2) or MTZJ5.1(B)

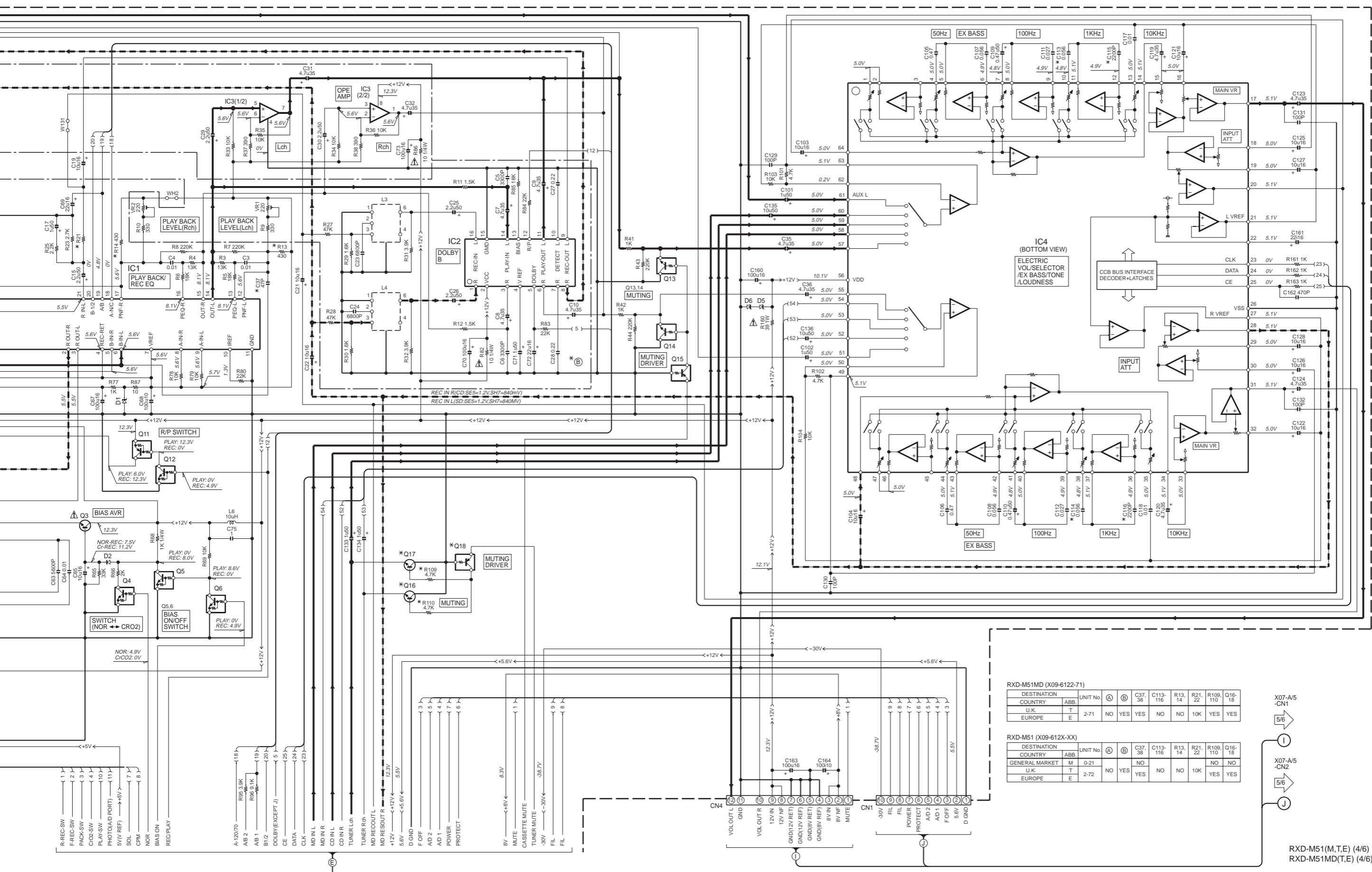


AUDIO UNIT (X09-612X-XX) (A/2) (2/2)



- Q1 : UN4116 or DTA143TSA
- Q2,5 : UN4212 or DTC124ESA
- Q3 : 2SA175(F,E) or 2SA1048(Y,GR) or 2SC2785(F,E) or 2SC2458(Y,GR)
- Q6,9 : 1SS133 or HSS104A
- Q7,8 : 2SD2525
- D1 : RD5.6ES(B2) or MTZJ5.6(B)
- D2-4 : 1SS133 or HSS104A
- D5 : RD4.7ES(B2) or MTZJ4.7(B)
- D6 : RD5.1ES(B2) or MTZJ5.1(B)





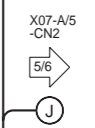
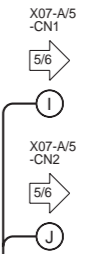
**RXD-M51MD (X09-6122-71)**

DESTINATION	COUNTRY	ABB.	UNIT No.	A	B	C37-38	C113-116	R13-14	R21-22	R109-110	Q16-18
U.K.	T		2-71	NO	YES	YES	NO	NO	10K	YES	YES
EUROPE	E										

**RXD-M51 (X09-612X-XX)**

DESTINATION	COUNTRY	ABB.	UNIT No.	A	B	C37-38	C113-116	R13-14	R21-22	R109-110	Q16-18
GENERAL MARKET	M		0-21	NO	NO	NO	NO	NO	10K	NO	NO
U.K.	T		2-72	NO	YES	YES	NO	NO	10K	YES	YES
EUROPE	E										



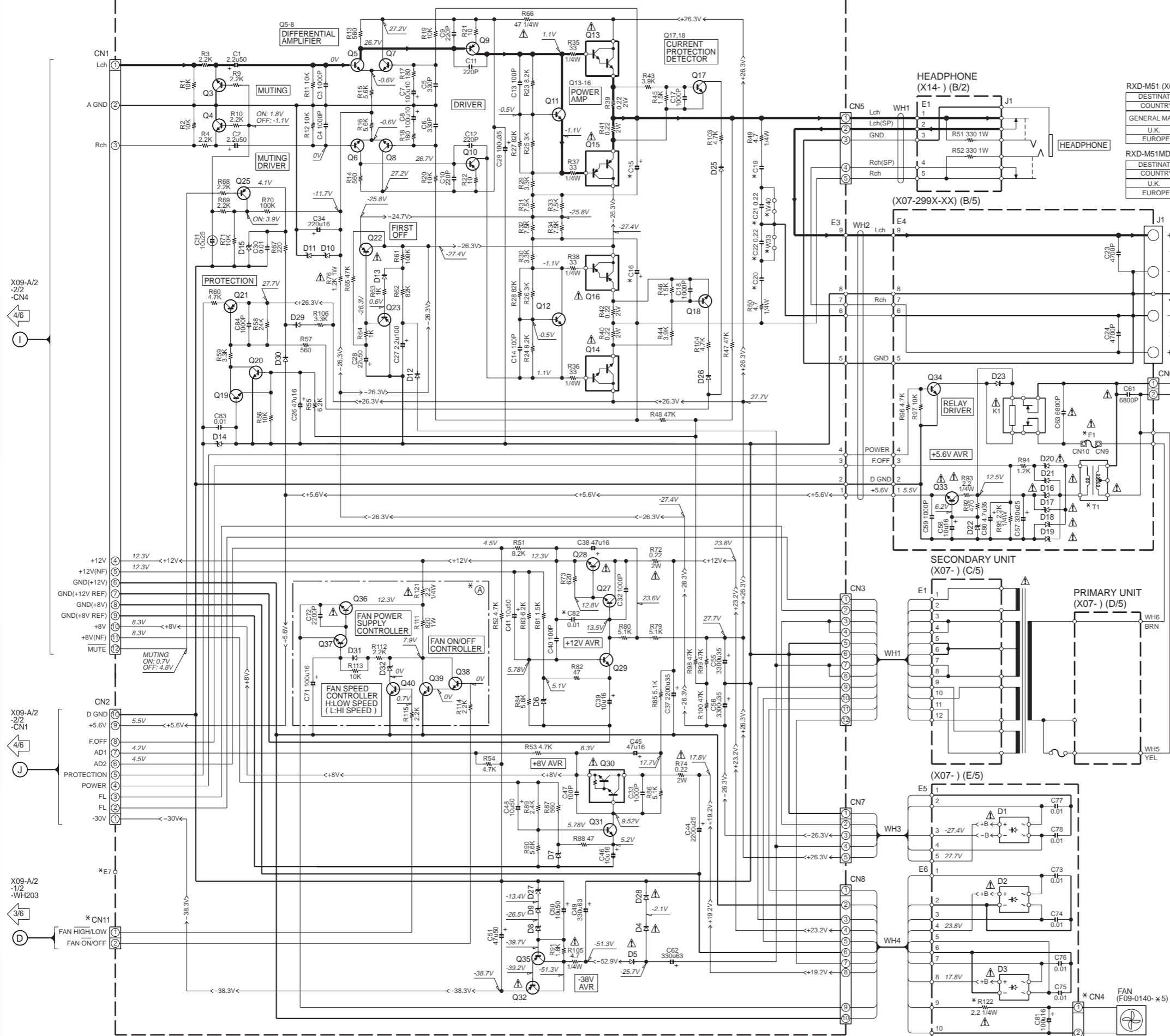
RXD-M51(M,T,E) (4/6)  
RXD-M51MD(T,E) (4/6)

# RXD-M51/M51MD

Y39-2980-51

## KENWOOD

POWER AMPLIFIER UNIT  
(X07-299X-XX) (A/5)



RXD-M51 (X07-299X-XX)												
DESTINATION COUNTRY	ABB.	UNIT No.	T1	F1	C15, 16	C19, 20	C21, 22	C81, 82	R122	CN4, 11	E7	Ⓐ
GENERAL MARKET	M	0-21	L07-2641-05	T1.6A L 250V	22u50	0.22	YES	NO	NO	NO	NO	NO
U.K.	T	2-72	L07-2622-05	T800mA L 250V								
EUROPE	E											

RXD-M51MD (X07-2992-71)												
DESTINATION COUNTRY	ABB.	UNIT No.	T1	F1	C15, 16	C19, 20	C21, 22	C81, 82	R122	CN4, 11	E7	Ⓐ
U.K.	T	2-71	L07-2622-05	T800mA L 250V	22u100	0.22	YES	YES	YES	YES	YES	YES
EUROPE	E											

(M) : AC110V-120V/220-240V-50/60Hz  
 (T,E) : AC230V-50Hz

- Q3,4 : 2SC2878(B)
- Q5-8,17-20 : 2SC1845(F,E)
- Q9,10,21-23 : 2SA992(F,E)
- Q11,12 : 2SC4137F50(V)
- Q13,14 : 2SD2589K
- Q15,16 : 2SB1659K
- Q25,35 : 2SA1175(F,E) or 2SA1048(Y,GR)
- Q27,29,31,37-39 : 2SC2458(Y,GR) or 2SC2785(F,E)
- Q28 : 2SD2012 or 2SD2061
- Q30 : 2SD2493 \*2
- Q32 : 2SB1370 or 2SB1375
- Q33 : 2SD2525
- Q34,40 : 2SC2003(L,K)
- Q36 : 2SB1640
- D1,3 : D3SBA20F03
- D2 : D2SBA20F03
- D4,5,12,16-19,28 : S5688B or 1SR139-400
- D6,7,14 : MTZJ5.1(B) or RD5.1ES(B2)
- D8,9,27 : MTZJ13(B) or RD13ES(B2)
- D10 : MTZJ5.6(B) or RD5.6ES(B2)
- D11,22 : MTZJ6.2(B) or RD6.2ES(B2)
- D13,20,21,23,25,26,29-31 : 1SS133 or HSS104A
- D15 : MTZJ3.9(B) or RD3.9ES(B2)
- D28 : S5688B
- D32 : MTZJ8.2(B) or RD8.2ES(B2)

**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.

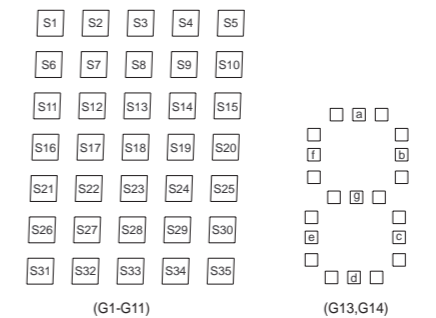
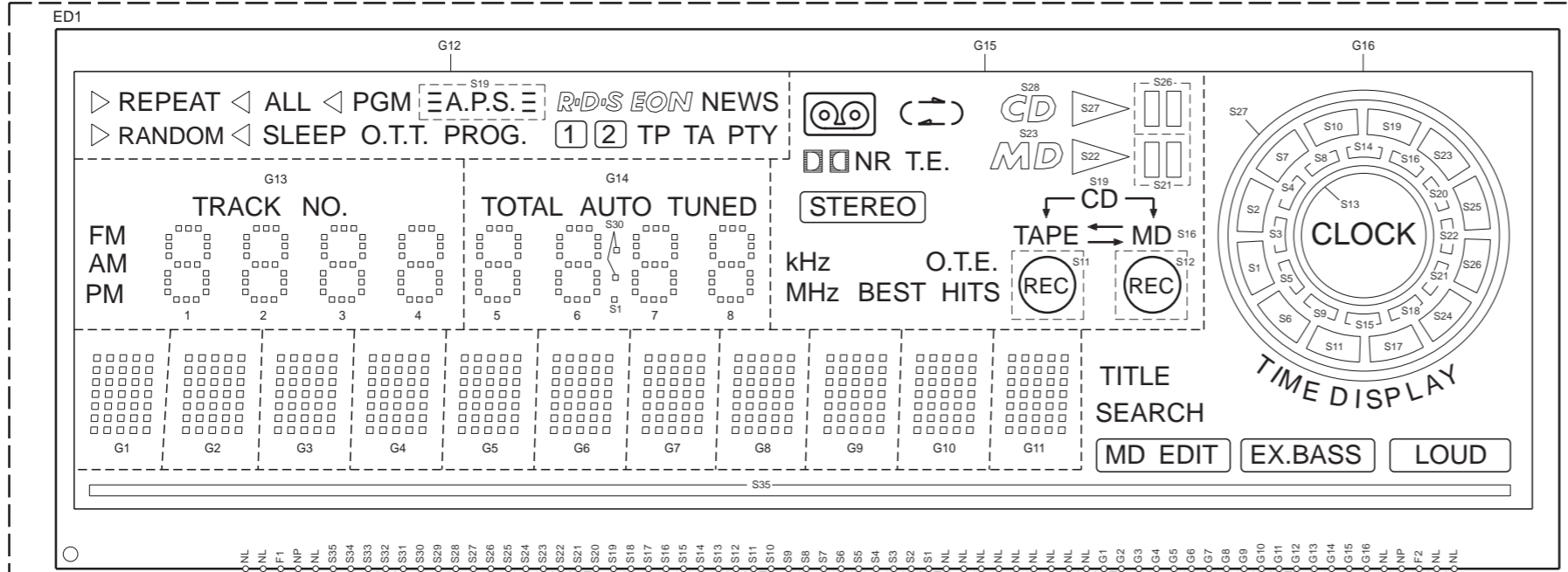
The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

X09-A/2  
-2/2  
-CN4  
4/6

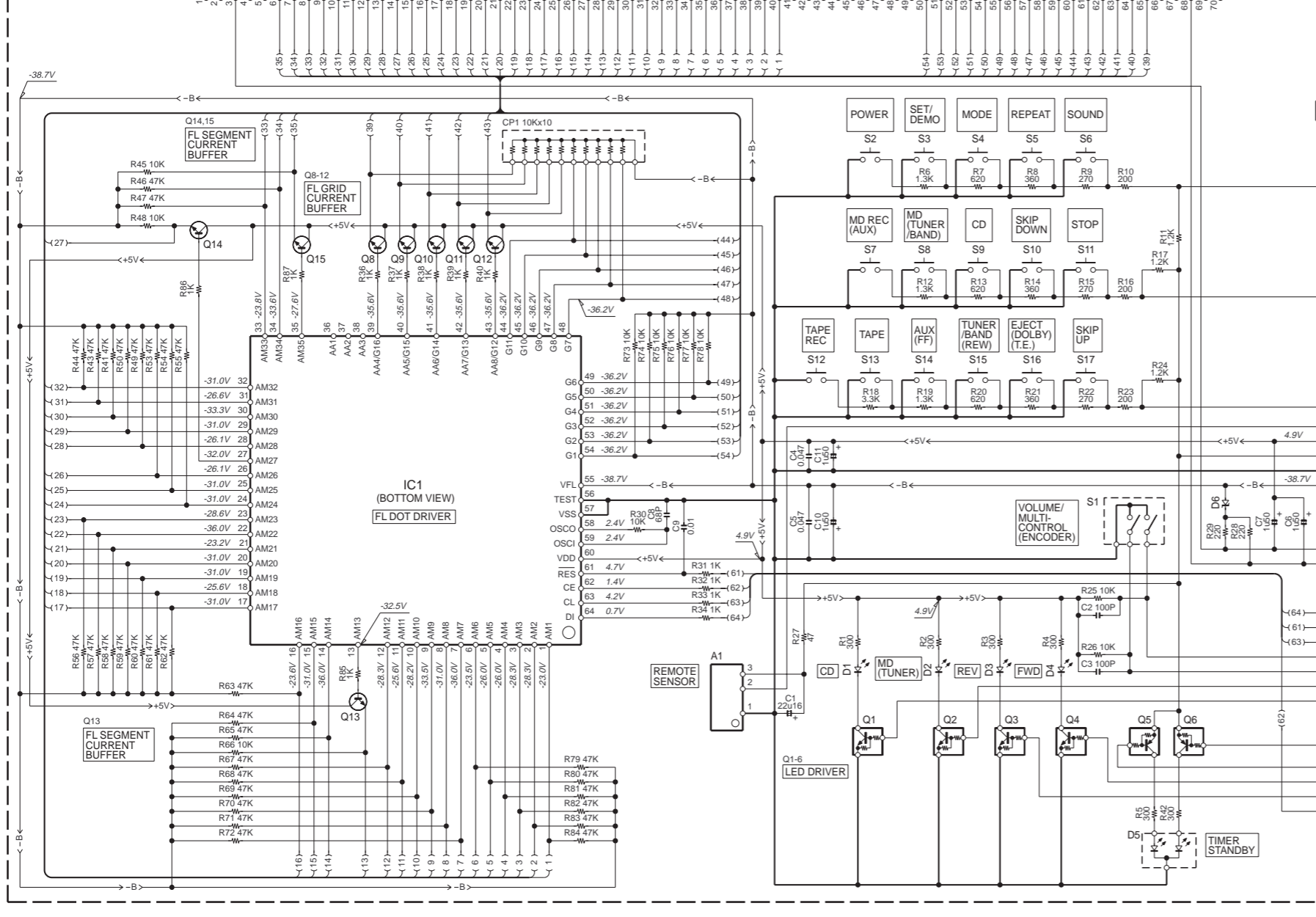
X09-A/2  
-2/2  
-CN1  
4/6

X09-A/2  
-1/2  
-WH203  
3/6

7



G1-G11	G12	G13	G14	G15	G16
S1	S1		S1		S1
S2	S2	4d	8d		S2
S3	S3	3d	7d		S3
S4	S4	2d	6d		S4
S5	S5	1d	5d		S5
S6	S6	4c	8c	MHz	S6
S7	S7	3c	7c	BEST HITS	S7
S8	S8	2c	6c		S8
S9	S9	1c	5c	kHz	S9
S10	S10	4e	8e	O.T.E.	S10
S11	S11	3e	7e	S11	S11
S12	S12	2e	6e	S12	CLOCK
S13	S13	1e	5e		S13
S14	S14	4g	8g		S14
S15	S15	3g	7g		S15
S16	S16	2g	6g	S16	S16
S17	S17	1g	5g	STEREO	S17
S18	S18	4b	8b		S18
S19	S19	3b	7b	S19	S19
S20	S20	2b	6b		S20
S21	S21	1b	5b	S21	S21
S22	S22	4f	8f	S22	S22
S23	S23	3f	7f	S23	S23
S24	S24	2f	6f	T.E.	S24
S25	S25	1f	5f	NR	S25
S26	S26	4a	8a	S26	S26
S27	S27	3a	7a	S27	S27
S28	S28	2a	6a	S28	TIME DISPLAY
S29	S29	1a	5a		TITLE
S30	S30	2	TRACK NO.	S30	SEARCH
S31	S31	TP	PM	TUNED	
S32	S32	TA	AM	AUTO	LOUD
S33	S33	PTY	FM	TOTAL	EX.BASS
S34	S34				MD EDIT
S35	S35				S35



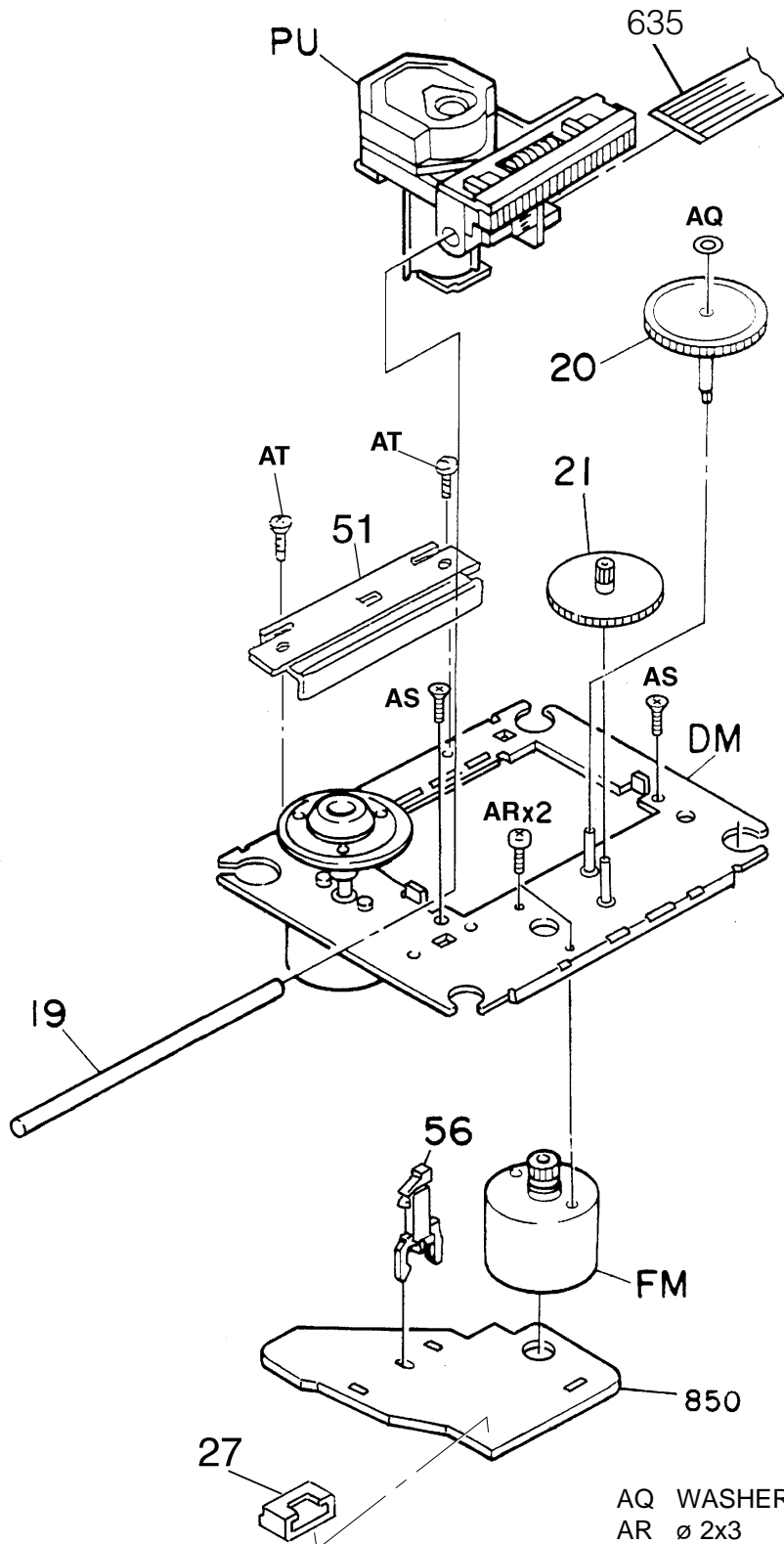
- IC1 : LC75710NED
  - Q1-4 : UN4212 or DTC124ESA
  - Q5,6 : UN4112 or DTA124ESA
  - Q8-15 : 2SC2785(F,E) or 2SC1740S(Q,R)
  - D1-4 : B30-2430-05
  - D5 : B30-2522-05
  - D6 : RD6.2ES(B2) or MTZJ6.2(B)
- GND LINE  
 +B LINE  
 -B LINE
- RXD-M51(M,T,E) (6/6)  
 RXD-M51MD(T,E) (6/6)

**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  $\Delta$  indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

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

# RXD-M51/M51MD

## EXPLODED VIEW (CD MECHANISM)

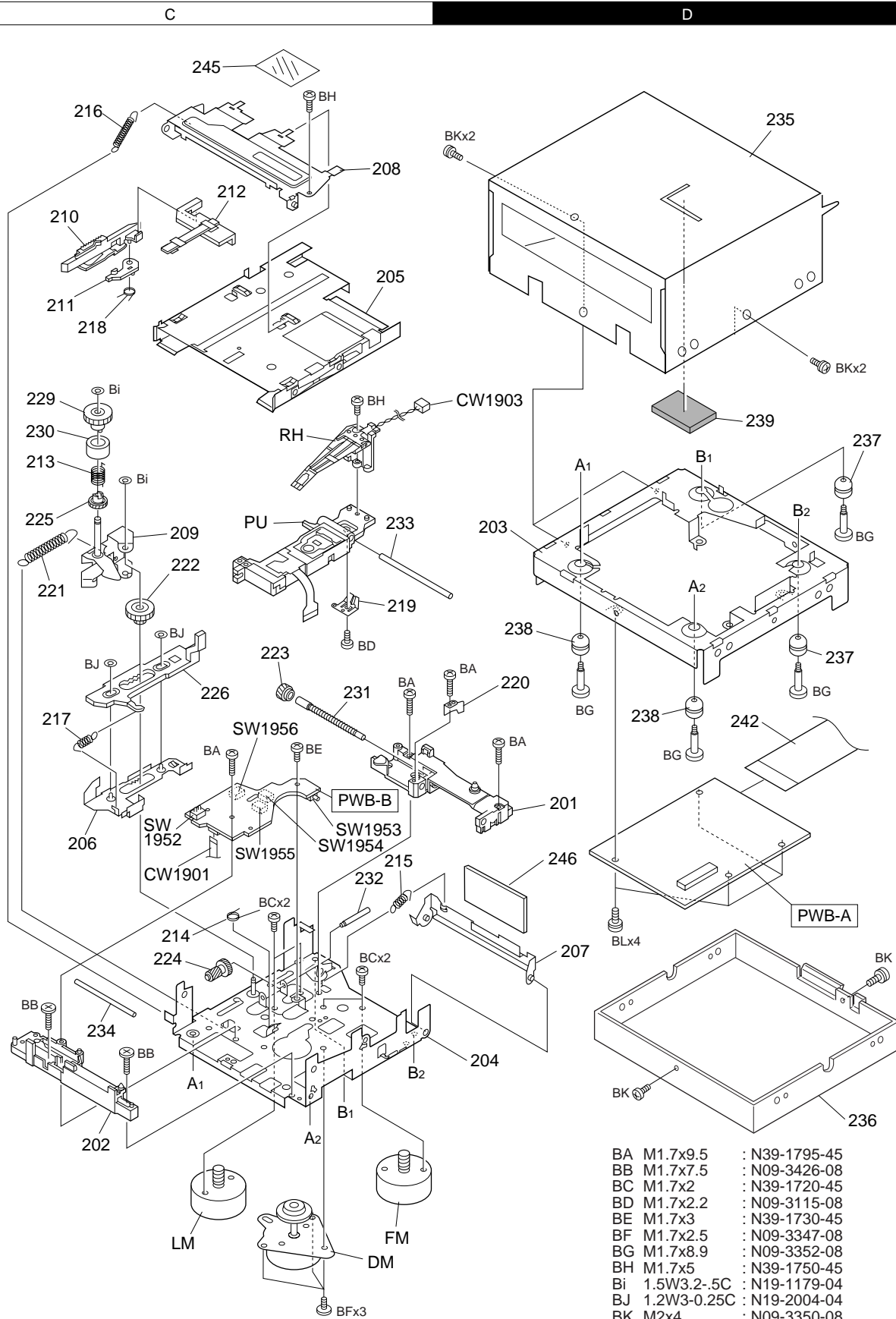


- AQ WASHER : N19-1435-05
- AR  $\varnothing$  2x3 : N30-2003-46
- AS  $\varnothing$  2.6x6 : N32-0260-46
- AT  $\varnothing$  2x5 : N86-2005-46

**KCTB3H**

# RXD-M51/M51MD

## EXPLODED VIEW (MD MECHANISM)



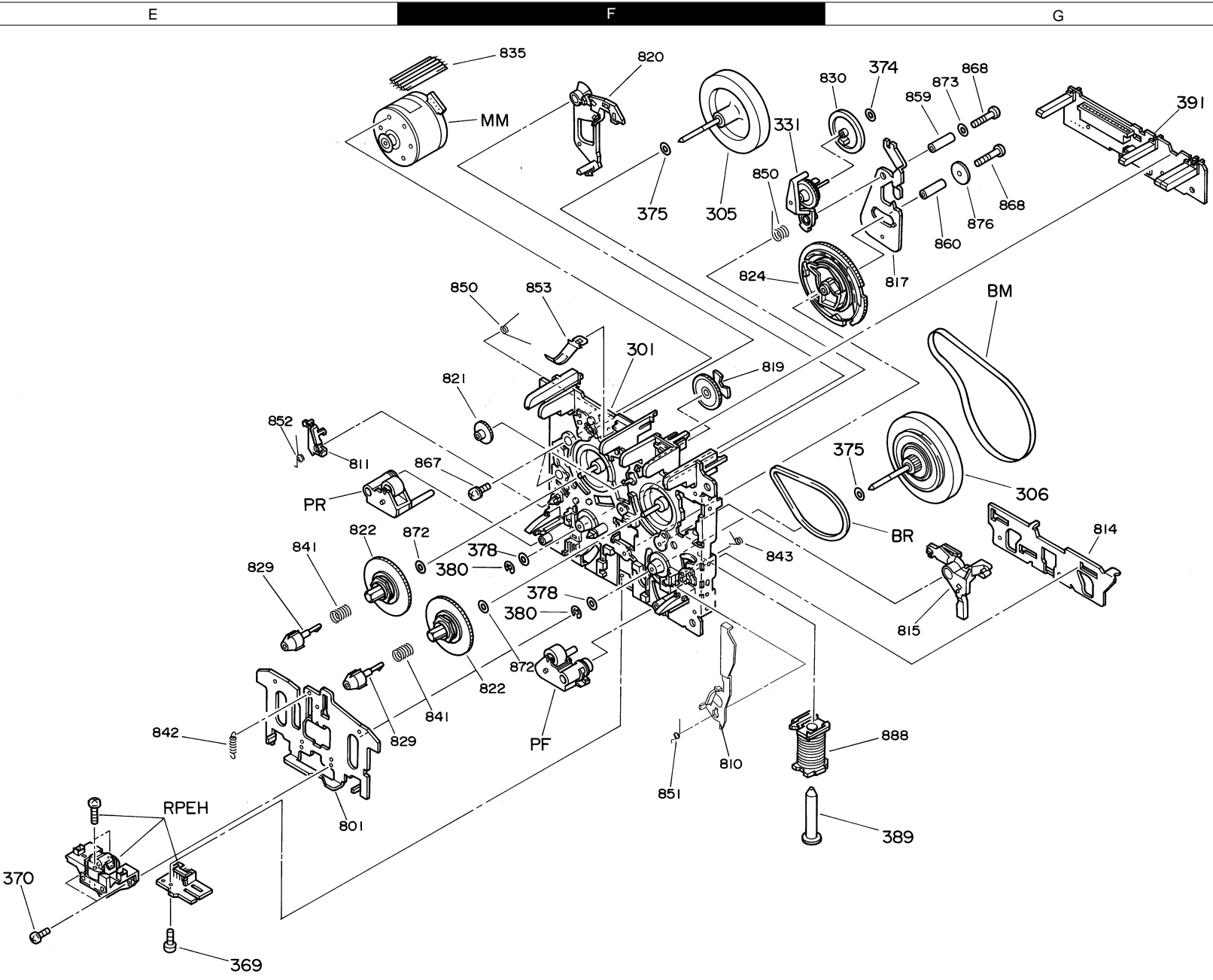
BA	M1.7x9.5	: N39-1795-45
BB	M1.7x7.5	: N09-3426-08
BC	M1.7x2	: N39-1720-45
BD	M1.7x2.2	: N09-3115-08
BE	M1.7x3	: N39-1730-45
BF	M1.7x2.5	: N09-3347-08
BG	M1.7x8.9	: N09-3352-08
BH	M1.7x5	: N39-1750-45
Bi	1.5W3.2-.5C	: N19-1179-04
BJ	1.2W3-0.25C	: N19-2004-04
BK	M2x4	: N09-3350-08
BL	M1.7x3	: N09-3351-08

MD MECHA (MDM-98A)



# RXD-M51/M51MD

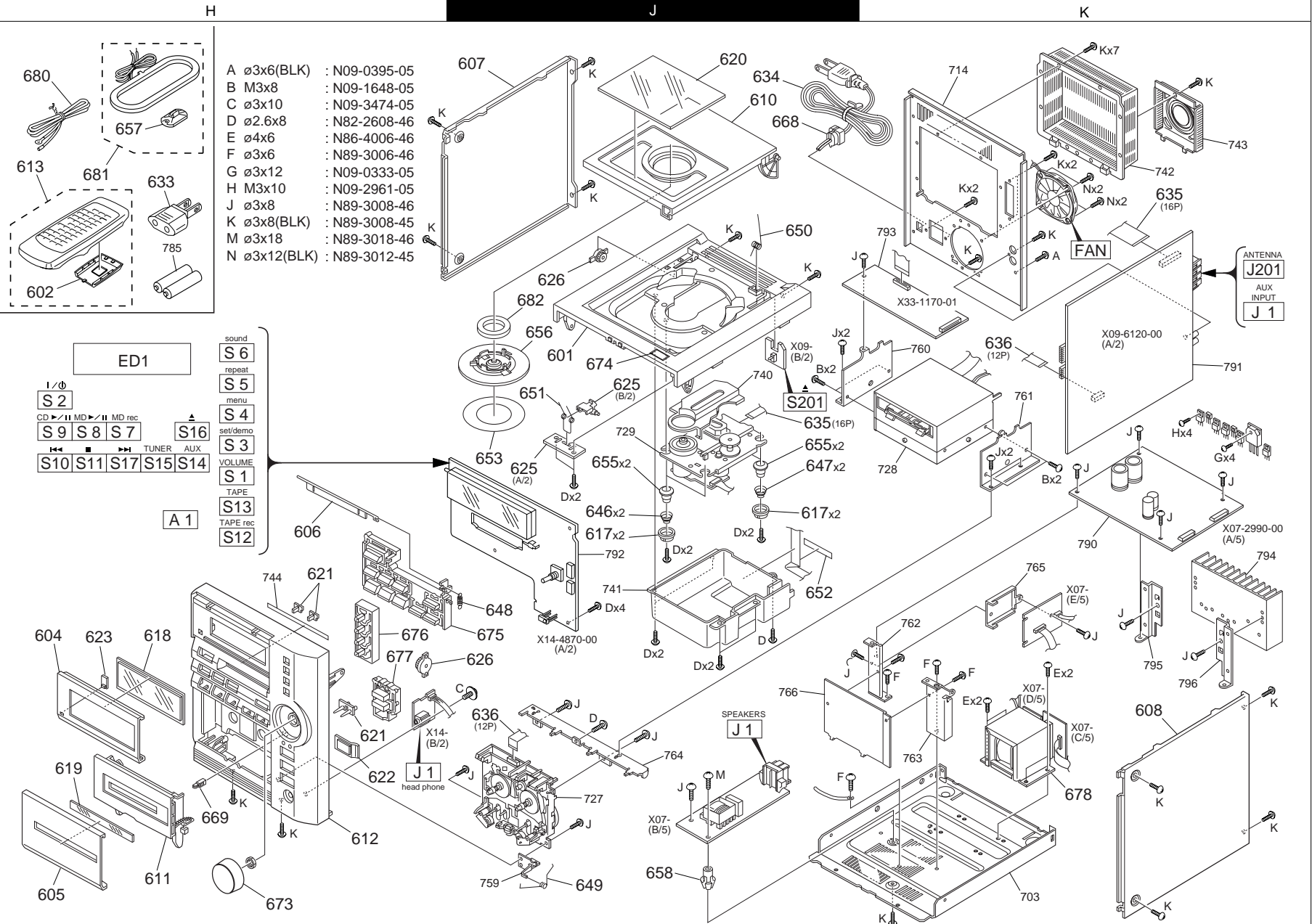
## EXPLODED VIEW (CASSETTE DECK MECHANISM)



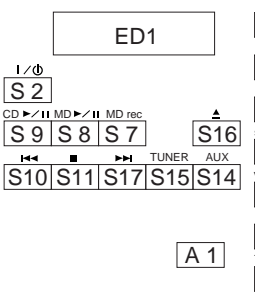
Parts with the exploded numbers larger than 700 are not supplied.

# RXD-M51/M51MD

## EXPLODED VIEW (UNIT)



A	∅3x6(BLK)	: N09-0395-05
B	M3x8	: N09-1648-05
C	∅3x10	: N09-3474-05
D	∅2.6x8	: N82-2608-46
E	∅4x6	: N86-4006-46
F	∅3x6	: N89-3006-46
G	∅3x12	: N09-0333-05
H	M3x10	: N09-2961-05
J	∅3x8	: N89-3008-46
K	∅3x8(BLK)	: N89-3008-45
M	∅3x18	: N89-3018-46
N	∅3x12(BLK)	: N89-3012-45



\* New Parts

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Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.

Teile ohne **Parts No.** werden nicht geliefert.

①

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
<b>RXD-M51/M51MD</b>						
601	1J	*	A02-2828-11	PLASTIC CABINET		
602	1H	*	A09-1106-08	BATTERY COVER	T1E1	
602	1H	*	A09-1114-08	BATTERY COVER	M1T2E2	
604	2H	*	A21-3707-03	DRESSING PANEL (FL)	T1E1	
604	2H	*	A21-3708-03	DRESSING PANEL (FL)	M1	
604	2H	*	A21-3720-03	DRESSING PANEL (FL)	T2E2	
605	2H	*	A21-3721-03	DRESSING PANEL (CASSETTE)	T1E1	
605	2H	*	A21-3722-03	DRESSING PANEL (CASSETTE)	M1T2E2	
606	2H	*	A29-1022-04	PANEL (MD)	T1E1	
607	1J	*	A50-1318-02	SIDE PLATE	T1E1	
607	1J	*	A50-1324-02	SIDE PLATE	M1T2E2	
608	2K	*	A50-1319-02	SIDE PLATE		
610	1J	*	A52-0337-11	TOP COVER		
611	2H	*	A53-2072-12	CASSETTE HOLDER		
612	2H	*	A60-1496-11	PANEL	T1E1	
612	2H	*	A60-1500-12	PANEL ASSY	M1T2E2	
613	1H	*	A70-1236-05	REMOTE CONTROL ASSY (RC-M0503E)	T1E1	
613	1H	*	A70-1241-05	REMOTE CONTROL ASSY (RC-F0503)	M1	
613	1H	*	A70-1242-05	REMOTE CONTROL ASSY (RC-F0503E)	T2E2	
617	1J, 2J		B09-0255-04	CAP (CD MECHA)		
618	2H	*	B10-3418-03	FRONT GLASS (FL)		
619	2H	*	B10-3419-14	FRONT GLASS (DECK)		
620	2H	*	B10-3452-03	FRONT GLASS (CD)		
621	2H	*	B12-0351-03	INDICATOR (SELECTOR)		
622	2H	*	B12-0352-04	INDICATOR (REMOTE)		
623	2H	*	B12-0354-04	INDICATOR (STANDBY)		
-		*	B46-0310-03	WARRANTY CARD	E2	
-		*	B46-0310-03	WARRANTY CARD	T1E1T2	
-		*	B58-0965-13	CAUTION CARD (PL)	T1T2	
-		*	B58-0966-13	CAUTION CARD (PL)	E1M1E2	
-		*	B60-4004-00	INSTRUCTION MANUAL(EN)	T1	
-		*	B60-4006-00	INSTRUCTION MANUAL(EN)	M1T2	
-		*	B60-4007-00	INSTRUCTION MANUAL(TC)	M1	
-		*	B60-4063-00	INSTRUCTION MANUAL(FR)	E1	
-		*	B60-4064-00	INSTRUCTION MANUAL(GE)	E1	
-		*	B60-4065-00	INSTRUCTION MANUAL(NE)	E1	
-		*	B60-4066-00	INSTRUCTION MANUAL(IT)	E1	
-		*	B60-4067-00	INSTRUCTION MANUAL(ES)	E1	
-		*	B60-4068-00	INSTRUCTION MANUAL(FR)	E2	
-		*	B60-4069-00	INSTRUCTION MANUAL(GE)	E2	
-		*	B60-4070-00	INSTRUCTION MANUAL(NE)	E2	
-		*	B60-4071-00	INSTRUCTION MANUAL(IT)	E2	
-		*	B60-4072-00	INSTRUCTION MANUAL(ES)	E2	
625	1J	*	D10-3810-14	LEVER (CD)		
626	2J		D39-0333-05	DAMPER		
△ 633	1H		E03-0115-05	AC PLUG ADAPTER	M1	
634	1J		E30-2788-05	AC POWER CORD	E1M1E2	
△ 634	1J		E30-2791-05	AC POWER CORD	T1T2	
635	1J, 1K	*	E35-2200-05	FLAT CABLE CD,16P		
636	1K, 2J	*	E35-2202-05	FLAT CABLE DECK,12P		
FAN	1K	*	F09-0141-05	FAN	T1E1	

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\* New Parts

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②

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
646	1J		G01-3753-04	COMPRESSION SPRING,CD/FRONT		
647	1J		G01-3754-04	COMPRESSION SPRING,CD/REAR	T1E1	
648	2J		G01-4030-14	EXTENSION SPRING,MD		
649	2J		G01-4031-14	TORSION COIL SPRING,DECK		
650	2J	*	G01-4071-04	TORSION COIL SPRING,CD		
651	1J	*	G01-4074-04	TORSION COIL SPRING,OPEN		
652	2J		G11-2400-04	SOFT TAPE CD		
653	1J		G16-0913-04	SHEET CD		
-		*	H10-7509-02	POLYSTYRENE FOAMED FIXTURE		
-		*	H10-7510-12	POLYSTYRENE FOAMED FIXTURE		
-		*	H25-1595-04	PROTECTION BAG	T1T2	
-		*	H25-1642-04	PROTECTION BAG	E1M1E2	
-		*	H25-1644-04	PROTECTION BAG	E1E2	
-		*	H25-1645-04	PROTECTION BAG	M1	
-		*	H25-1646-04	PROTECTION BAG	T1T2	
-		*	H50-3097-14	ITEM CARTON CASE	T1E1	
-		*	H50-3100-04	ITEM CARTON CASE	M1	
-		*	H50-3101-04	ITEM CARTON CASE	T2E2	
655	1J		J02-1121-04	INSULATOR		
656	1J	*	J11-0837-03	CLAMPER		
657	1H		J19-3645-05	ANTENNA STAND		
658	2J		J19-3732-04	UNIT HOLDER		
△ 668	1J		J42-0083-05	POWER CORD BUSHING		
669	2H		J52-0039-05	PUSH LATCH		
-			J61-0098-05	WIRE BAND		
673	2H	*	K29-6358-14	KNOB VOLUME	T1E1	
673	2H	*	K29-7398-04	KNOB VOLUME	M1T2E2	
674	1J	*	K29-7391-04	KNOB OPEN		
675	2J	*	K29-7392-02	KNOB SELECTOR	T1E1	
675	2J	*	K29-7402-02	KNOB SELECTOR	M1T2E2	
676	2H	*	K29-7393-03	KNOB SOUND		
677	2H	*	K29-7394-03	KNOB DECK		
△ 678	2K	*	L07-2610-05	POWER TRANSFORMER	T1E1	
△ 678	2K	*	L07-2627-05	POWER TRANSFORMER	M1	
△ 678	2K	*	L07-2628-05	POWER TRANSFORMER	T2E2	
680	1H		T90-0801-05	LEAD WIRE ANTENNA	M1	
680	1H		T90-0810-05	LEAD WIRE ANTENNA	E2	
680	1H		T90-0810-05	LEAD WIRE ANTENNA	T1E1T2	
681	1H		T90-0833-05	LOOP ANTENNA		
682	1J		T99-0544-15	MAGNET		
<b>POWER AMPLIFIER UNIT (X07-299X-XX)</b>						
C1, 2			CE04KW1H2R2M	ELECTRO	2.2UF	50WV
C3, 4			CQ93FMG1H102J	MYLAR	1000PF	J
C5, 6			CC45FSL1H331J	CERAMIC	330PF	J
C7, 8			CE04KW1A101M	ELECTRO	100UF	10WV
C9-12			CC45FSL1H221J	CERAMIC	220PF	J
C13, 14			CC45FSL1H101J	CERAMIC	100PF	J
C15, 16			CE04KW1H220M	ELECTRO	22UF	50WV
C15, 16			CE04KW2A220M	ELECTRO	22UF	100WV
C17, 18			CQ93FMG1H102J	MYLAR	1000PF	J
C19-22			CF92FV1H224J	MF-C	0.22UF	J
C23, 24			CQ93FMG1H472J	MYLAR	4700PF	J
C26			CE04KW1C470M	ELECTRO	47UF	16WV

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PARTS LIST RXD-M51/M51MD

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3

Ref. No	Address	New Parts	Parts No.	Description		Destination	Remarks
C27			CE04KW2A2R2M	ELECTRO	2.2UF 100VV		
C28			CE04KW1H220M	ELECTRO	22UF 50VV		
C29			CE04KW1V101M	ELECTRO	100UF 35VV		
C30			CK45FF1H103Z	CERAMIC	0.010UF Z		
C31			CE04HW1E100M	NP-ELEC	10UF 25VV		
C32, 33			CK45FB1H102K	CERAMIC	1000PF K		
C34			CE04KW1C221M	ELECTRO	220UF 16VV		
C37			CE04KW1V222M	ELECTRO	2200UF 35VV		
C38			CE04KW1C470M	ELECTRO	47UF 16VV		
C39			CE04KW1C100M	ELECTRO	10UF 16VV		
C40			CC45FSL1H101J	CERAMIC	100PF J		
C41			CE04KW1H100M	ELECTRO	10UF 50VV		
C44			CE04KW1E222M	ELECTRO	2200UF 25VV		
C45			CE04KW1C470M	ELECTRO	47UF 16VV		
C46			CE04KW1C100M	ELECTRO	10UF 16VV		
C47			CC45FSL1H101J	CERAMIC	100PF J		
C48			CE04KW1H100M	ELECTRO	10UF 50VV		
C49			CE04KW1J331M	ELECTRO	330UF 63VV		
C50			CE04KW1H100M	ELECTRO	10UF 50VV		
C51			CE04KW1H470M	ELECTRO	47UF 50VV		
C55, 56			C90-3814-05	ELECTRO	3300UF 35VV		
C57			CE04DW1E331M	ELECTRO	330UF 25VV		
C58			CE04KW1C100M	ELECTRO	10UF 16VV		
C59			CK45FB1H102K	CERAMIC	1000PF K		
C60			CE04KW1V4R7M	ELECTRO	4.7UF 35VV		
△ C61			C91-1488-05	MF	6800PF 250VAC		
△ C62			CE04KW1J331M	ELECTRO	330UF 63VV		
△ C63			C91-1488-05	MF	6800PF 250VAC		
C71			CE04KW1C101M	ELECTRO	100UF 16VV		T1E1
C72			CK45FB1H222K	CERAMIC	2200PF K		T1E1
C73-78			CK45FF1H103Z	CERAMIC	0.010UF Z		
C81			CE04KW1C101M	ELECTRO	100UF 16VV		T1E1
C82			CK45FF1H103Z	CERAMIC	0.010UF Z		T1E1
C83			CQ93FMG1H103J	MYLAR	0.010UF J		
C84			CQ93FMG1H102J	MYLAR	1000PF J		
CN1		*	E40-8347-05	PIN ASSY			
CN2		*	E40-8346-05	PIN ASSY			
CN3			E40-4254-05	FLAT CABLE CONNECTOR			
CN4			E40-3260-05	PIN ASSY			T1E1
CN5			E40-3249-05	PIN ASSY			
CN6			E40-8126-05	PIN ASSY			
CN7			E40-4295-05	FLAT CABLE CONNECTOR			
CN8			E40-4284-05	FLAT CABLE CONNECTOR			
CN11			E40-3246-05	PIN ASSY			T1E1
J1			E70-0053-05	LOCK TERMINAL BOARD			
△ F1			F05-1623-05	FUSE (SEMKO)	(250V T1.6AL)		M1
△ F1			F05-8013-05	FUSE (SEMKO)	(250V T800MAL)		E2
△ F1			F05-8013-05	FUSE (SEMKO)	(250V T800MAL)		T1E1T2
CN9, 10			J13-0075-05	FUSE CLIP			
E7			J11-0809-05	WIRE CLAMPER			
△ T1		*	L07-2622-05	POWER TRANSFORMER			E2
△ T1		*	L07-2622-05	POWER TRANSFORMER			T1E1T2
△ T1		*	L07-2641-05	POWER TRANSFORMER			M1

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4

Ref. No	Address	New Parts	Parts No.	Description			Destination	Remarks
R35-38			RD14NB2E330J	RD	33	J	1/4W	
R39-42			RS14KB3DR22J	FL-PROOF RS	0.22	J	2W	
R49, 50			RD14NB2E4R7J	RD	4.7	J	1/4W	
△ R66			RD14NB2E470J	RD	47	J	1/4W	
△ R72			RS14KB3DR22J	FL-PROOF RS	0.22	J	2W	
△ R74			RS14KB3DR22J	FL-PROOF RS	0.22	J	2W	
△ R76			RS14KB3A122J	FL-PROOF RS	1.2K	J	1W	
△ R93			RD14NB2E2R2J	RD	2.2	J	1/4W	
△ R95			RD14NB2E222J	RD	2.2K	J	1/4W	
△ R105			RD14NB2E4R7J	RD	4.7	J	1/4W	
R111			RS14KB3A821J	FL-PROOF RS	820	J	1W	T1E1
△ R121, 122			RD14NB2E2R2J	RD	2.2	J	1/4W	T1E1
△ K1		*	S76-0089-05	MAGNETIC RELAY				
△ D1			D3SBA20F03	DIODE				
△ D2			D2SBA20F03	DIODE				
△ D3			D3SBA20F03	DIODE				
△ D4, 5			S5688B	DIODE				
△ D4, 5			1SR139-400	DIODE				
D6, 7			MTZJ5.1(B)	ZENER DIODE				
D6, 7			RD5.1ES(B2)	ZENER DIODE				
D8, 9			MTZJ13(B)	ZENER DIODE				
D8, 9			RD13ES(B2)	ZENER DIODE				
D10			MTZJ5.6(B)	ZENER DIODE				
D10			RD5.6ES(B2)	ZENER DIODE				
D11			MTZJ6.2(B)	ZENER DIODE				
D11			RD6.2ES(B2)	ZENER DIODE				
D12			S5688B	DIODE				
D12			1SR139-400	DIODE				
D13			HSS104A	DIODE				
D13			1SS133	DIODE				
D14			MTZJ5.1(B)	ZENER DIODE				
D14			RD5.1ES(B2)	ZENER DIODE				
D15			MTZJ3.9(B)	ZENER DIODE				
D15			RD3.9ES(B2)	ZENER DIODE				
△ D16-19			S5688B	DIODE				
△ D16-19			1SR139-400	DIODE				
△ D20, 21			HSS104A	DIODE				
△ D20, 21			1SS133	DIODE				
D22			MTZJ6.2(B)	ZENER DIODE				
D22			RD6.2ES(B2)	ZENER DIODE				
D23			HSS104A	DIODE				
D23			1SS133	DIODE				
D25, 26			HSS104A	DIODE				
D25, 26			1SS133	DIODE				
D27			MTZJ13(B)	ZENER DIODE				
D27			RD13ES(B2)	ZENER DIODE				
△ D28			S5688B	DIODE				
D29, 30			HSS104A	DIODE				
D29, 30			1SS133	DIODE				
D31			HSS104A	DIODE			T1E1	
D31			1SS133	DIODE			T1E1	
D32			MTZJ8.2(B)	ZENER DIODE			T1E1	
D32			RD8.2ES(B2)	ZENER DIODE			T1E1	

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
Q3, 4			2SC2878(B)	TRANSISTOR		
Q5-8			2SC1845(F,E)	TRANSISTOR		
Q9, 10			2SA992(F,E)	TRANSISTOR		
Q11, 12			2SC4137F50(V)	TRANSISTOR		
Q13, 14			2SD2589K	TRANSISTOR		
Q15, 16			2SB1659K	TRANSISTOR		
Q17-20			2SC1845(F,E)	TRANSISTOR		
Q21-23			2SA992(F,E)	TRANSISTOR		
Q25			2SA1048(Y,GR)	TRANSISTOR		
Q25			2SA1175(F,E)	TRANSISTOR		
Q27			2SC2458(Y,GR)	TRANSISTOR		
Q27			2SC2785(F,E)	TRANSISTOR		
Q28			2SD2012	TRANSISTOR		
Q28			2SD2061	TRANSISTOR		
Q29			2SC2458(Y,GR)	TRANSISTOR		
Q29			2SC2785(F,E)	TRANSISTOR		
Q30			2SD2493*2	TRANSISTOR		
Q31			2SC2458(Y,GR)	TRANSISTOR		
Q31			2SC2785(F,E)	TRANSISTOR		
Q32			2SB1370	TRANSISTOR		
Q32			2SB1375	TRANSISTOR		
Q33			2SD2525	TRANSISTOR		
Q34			2SC2003(L,K)	TRANSISTOR		
Q35			2SA1048(Y,GR)	TRANSISTOR		
Q35			2SA1175(F,E)	TRANSISTOR		
Q36			2SB1640	TRANSISTOR	T1E1	
Q37-39			2SC2458(Y,GR)	TRANSISTOR	T1E1	
Q37-39			2SC2785(F,E)	TRANSISTOR	T1E1	
Q40			2SC2003(L,K)	TRANSISTOR	T1E1	
<b>AUDIO UNIT (X09-612X-XX)</b>						
C1, 2			CK73FB1H821K	CHIP C		
C3, 4			CQ93FMG1H103J	MYLAR		
C5, 6			CQ93FMG1H332J	MYLAR		
C7-10			CE04KW1V4R7M	ELECTRO		
C11, 12			CC45FSL1H221J	CERAMIC		
C13, 14			CE04KW1C100M	ELECTRO		
C15, 16			CE04KW1H2R2M	ELECTRO		
C17, 18			CE04KW1H010M	ELECTRO		
C19-22			CE04KW1C100M	ELECTRO		
C23, 24			CK73FB1H682K	CHIP C		
C25, 26			CE04KW1H2R2M	ELECTRO		
C27, 28			CQ93FMG1H224J	MYLAR		
C33, 34			CC45FSL1H221J	CERAMIC		
C35, 36			CE04KW1V4R7M	ELECTRO		
C37, 38			CC73FSL1H470J	CHIP C		
C37, 38			CC73FSL1H470J	CHIP C		
C60			CE04KW1C100M	ELECTRO		
C61			CQ93FMG1H103J	MYLAR		
C62, 63			CQ93FMG1H562J	MYLAR		
C64			CQ93FMG1H103J	MYLAR		
C65			CE04KW1C100M	ELECTRO		
C66			CQ93HP2A682J	MYLAR		
C67			CE04KW1C101M	ELECTRO		
C68			CE04KW1A101M	ELECTRO		
C69			CE04KW1C220M	ELECTRO		

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C70			CE04KW1C101M	ELECTRO		
C71			CE04KW1H010M	ELECTRO		
C72			CE04KW1C220M	ELECTRO		
C74			CE04KW1C100M	ELECTRO		
C75			CK73FF1C105Z	CHIP C		
C101, 102			CE04KW1H010M	ELECTRO		
C103, 104			CE04KW1C100M	ELECTRO		
C105, 106			CK73FF1C474Z	CHIP C		
C107, 108			CK73FB1E563K	CHIP C		
C109, 110			CE04KW1HR47M	ELECTRO		
C111, 112			CK73FB1E273K	CHIP C		
C117, 118			CK73FB1H103K	CHIP C		
C119, 120			CE04KW1V4R7M	ELECTRO		
C121, 122			CE04KW1C100M	ELECTRO		
C123, 124			CE04KW1V4R7M	ELECTRO		
C125-128			CE04KW1C100M	ELECTRO		
C129-132			CC73FSL1H101J	CHIP C		
C133, 134			CE04KW1H010M	ELECTRO		
C135, 136			CE04KW1H100M	ELECTRO		
C137, 138			CK73FB1H221K	CHIP C		
C160			CE04KW1C101M	ELECTRO		
C161			CE04KW1C220M	ELECTRO		
C162			CK73FB1H471K	CHIP C		
C163			CE04KW1C101M	ELECTRO		
C164			CE04KW1A101M	ELECTRO		
C201, 202			CQ93FMG1H102J	MYLAR		
C203, 204			CK73FB1H271K	CHIP C		
C205, 206			CE04KW1H100M	ELECTRO		
C207			CK73FB1C104K	CHIP C		
C208			CK73FB1H103K	CHIP C		
C209			CK73FB1H152K	CHIP C		
C210			CC73FCH1H330J	CHIP C		
C210			CC73FCH1H330J	CHIP C		
C211			CQ93FMG1H102J	MYLAR		
C212			CE04KW1A470M	ELECTRO		
C214			CC73FCH1H101J	CHIP C		
C215			CE04KW1A101M	ELECTRO		
C216			CK73FF1C474Z	CHIP C		
C217			CK73FB1H103K	CHIP C		
C218			CK73FB1E473KTA	CHIP C		
C219			CK73FB1H221K	CHIP C		
C220			CE04KW1A101M	ELECTRO		
C221			CK73FB1H332K	CHIP C		
C222			CK73FB1H223KTA	CHIP C		
C223			CE04KW1A101M	ELECTRO		
C224			CE04KW1C221M	ELECTRO		
C225			CK73FB1H221K	CHIP C		
C226			CC73FCH1H470J	CHIP C		
C227			CC73FCH1H680J	CHIP C		
C228			CC73FCH1H470J	CHIP C		
C229			CC73FSL1H101J	CHIP C		
C229			CC73FSL1H101J	CHIP C		
C229			CK73FB1H103K	CHIP C		
C231			CK73FB1H333K	CHIP C		
C232			CC73FCH1H390J	CHIP C		

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PARTS LIST

RXD-M51/M51MD





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Ref. No	Address	New Parts	Parts No.	Description	Desti-nation	Re-marks
R326			RK73FB2A473J	CHIP R 47K J 1/10W	T1E1T2	
R327			RK73FB2A101J	CHIP R 100 J 1/10W	E2	
R327			RK73FB2A101J	CHIP R 100 J 1/10W	T1E1T2	
R328, 329			RD14NB2E2R2J	RD 2.2 J 1/4W		
R330			RK73FB2A473J	CHIP R 47K J 1/10W		
R331, 332			RK73FB2A101J	CHIP R 100 J 1/10W	T1E1	
R333, 334			RK73FB2A152J	CHIP R 1.5K J 1/10W	T1E1	
R335, 336			RK73FB2A163J	CHIP R 16K J 1/10W	T1E1	
R338			RK73FB2A100J	CHIP R 10 J 1/10W	T1E1	
R351, 352			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R353, 354			RK73FB2A471J	CHIP R 470 J 1/10W		
R355, 356			RK73FB2A104J	CHIP R 100K J 1/10W		
R357			RK73FB2A472J	CHIP R 4.7K J 1/10W		
VR1, 2		*	R32-0030-05	SEMI FIXED VARIABLE RESISTOR		
VR3, 4		*	R32-0075-05	SEMI FIXED VARIABLE RESISTOR		
VR201			R32-0038-05	SEMI FIXED VARIABLE RESISTOR		
W501, 502			R92-0670-05	CHIP R 0 OHM	M1T2E2	
W505			R92-0670-05	CHIP R 0 OHM		
W506			R92-0679-05	CHIP R 0 OHM	M1	
W601			R92-0679-05	CHIP R 0 OHM		
W601, 602			R92-0679-05	CHIP R 0 OHM	E2	
W603			R92-0670-05	CHIP R 0 OHM	T1E1T2	
W603			R92-0670-05	CHIP R 0 OHM	E2	
W604-606			R92-0679-05	CHIP R 0 OHM	T1E1T2	
W604-614			R92-0679-05	CHIP R 0 OHM	M1	
W604-614			R92-0679-05	CHIP R 0 OHM	E2	
W609-614			R92-0679-05	CHIP R 0 OHM	T1E1T2	
W615			R92-0670-05	CHIP R 0 OHM	E2	
W615			R92-0670-05	CHIP R 0 OHM	T1E1T2	
W616			R92-0679-05	CHIP R 0 OHM		
W617-619			R92-0670-05	CHIP R 0 OHM		
W620			R92-0679-05	CHIP R 0 OHM		
W621			R92-0670-05	CHIP R 0 OHM	T2E2	
W622			R92-0670-05	CHIP R 0 OHM	T1E1	
W623			R92-0679-05	CHIP R 0 OHM	M1T2E2	
W623, 624			R92-0679-05	CHIP R 0 OHM	T1E1	
S201			S40-1140-05	PUSH SWITCH		
D1			MTZJ5.6(B)	ZENER DIODE		
D1			RD5.6ES(B2)	ZENER DIODE		
D2-4			HSS104A	DIODE		
D2-4			1SS133	DIODE		
D5			MTZJ4.7(B)	ZENER DIODE		
D5			RD4.7ES(B2)	ZENER DIODE		
D6			MTZJ5.1(B)	ZENER DIODE		
D6			RD5.1ES(B2)	ZENER DIODE		
D201			HSS104A	DIODE		
D201			1SS133	DIODE		
D202			MTZJ5.6(B)	ZENER DIODE		
D202			RD5.6ES(B2)	ZENER DIODE		
D203			HSS104A	DIODE		
D203			1SS133	DIODE		
D205			DA204U	DIODE		

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Ref. No	Address	New Parts	Parts No.	Description	Desti-nation	Re-marks
D206, 207			S5688B(TPB5)	DIODE		
D208			HSS104A	DIODE	T1E1	
D208			1SS133	DIODE	T1E1	
D209, 210			HSS104A	DIODE		
D209, 210			1SS133	DIODE		
D211			MA111	DIODE		
D212, 213			HSS104A	DIODE	T1E1	
D212, 213			1SS133	DIODE	T1E1	
D214			MTZJ5.6(B)	ZENER DIODE		
D214			RD5.6ES(B2)	ZENER DIODE		
D215			MA111	DIODE	T1E1	
D216, 217			DA204U	DIODE		
IC1		*	HA12219NT	ANALOGUE IC		
IC2			HA12136A	IC(DOLBY B NR SYSTEM)		
IC4		*	LC75396NE	ANALOGUE IC		
IC5			BA3126N	ANALOGUE IC		
IC201			CXA1571M	IC(CD RF AMP)		
IC202			BA5979S	ANALOGUE IC		
IC203			CXD2587Q	MOS-IC		
IC204			PST993D-T	ANALOGUE IC		
IC205		*	M30622MA-174FP	MI-COM IC		
IC206			SAA6579T	ANALOGUE IC	E2	
IC206			SAA6579T	ANALOGUE IC	T1E1T2	
IC206			SAA6579T/R	ANALOGUE IC	E2	
IC206			SAA6579T/R	ANALOGUE IC	T1E1T2	
Q1, 2			2SC2458(Y,GR)	TRANSISTOR		
Q1, 2			2SC2785(F,E)	TRANSISTOR		
Q3			2SC3940A(R,S)	TRANSISTOR		
Q3			2SD863(E,F)	TRANSISTOR		
Q4-8			DTC124ESA	DIGITAL TRANSISTOR		
Q4-8			UN4212	DIGITAL TRANSISTOR		
Q9, 10			2SA1286-T11	TRANSISTOR		
Q11			DTA124ESA	DIGITAL TRANSISTOR		
Q11			UN4112	DIGITAL TRANSISTOR		
Q12			DTC124ESA	DIGITAL TRANSISTOR		
Q12			UN4212	DIGITAL TRANSISTOR		
Q13, 14			DTC143TUA	DIGITAL TRANSISTOR		
Q13, 14			UN5216	DIGITAL TRANSISTOR		
Q15		*	DTA143TUA	DIGITAL TRANSISTOR		
Q15			UN5116	DIGITAL TRANSISTOR		
Q16, 17			2SD1757K	TRANSISTOR		
Q16, 17			2SD1757K	TRANSISTOR	E2	
Q18		*	DTA143TUA	DIGITAL TRANSISTOR	E2	
Q18		*	DTA143TUA	DIGITAL TRANSISTOR	T1E1T2	
Q18			UN5116	DIGITAL TRANSISTOR	E2	
Q18			UN5116	DIGITAL TRANSISTOR	T1E1T2	
Q201			2SD2012	TRANSISTOR		
Q201			2SD2061(E,F)	TRANSISTOR		
Q202			DTC143TSA	DIGITAL TRANSISTOR		
Q202			UN4216	DIGITAL TRANSISTOR		
Q203			2SA954(L,K)	TRANSISTOR		
Q204			DTC143TSA	DIGITAL TRANSISTOR		
Q204			UN4216	DIGITAL TRANSISTOR		
Q205			2SC3940A(R,S)	TRANSISTOR		
Q205			2SD863(E,F)	TRANSISTOR		

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Q206		*	DTA143TUA	DIGITAL TRANSISTOR		
Q206			UN6116	DIGITAL TRANSISTOR		
Q207			2SC2458(Y,GR)	TRANSISTOR		
Q207			2SC2785(F,E)	TRANSISTOR		
Q208			2SA1048(Y,GR)	TRANSISTOR	T1E1	
Q208			2SA1175(F,E)	TRANSISTOR	T1E1	
Q209, 210			2SC2878(B)	TRANSISTOR		
A201			W02-1114-05	OSCILLATING MODULE	M1T2E2	
A301		*	W02-2666-05	TUNER ASSY	M1	
A301		*	W02-2667-05	TUNER ASSY	E2	
A301		*	W02-2667-05	TUNER ASSY	T1E1T2	
<b>DISPLAY UNIT (X14-4870-00)</b>						
D1-4			B30-2430-05	LED(RED)		
D5			B30-2522-05	LED(RED,GREEN,3MM)		
C1			C90-3226-05	ELECTRO 22UF 16WV		
C2, 3			C91-0745-05	CERAMIC 100PF K		
C4, 5			CQ93FMG1H473J	MYLAR 0.047UF J		
C6, 7			C90-3253-05	ELECTRO 1.0UF 50WV		
C8			C91-0741-05	CERAMIC 68PF J		
C9			C91-0769-05	CERAMIC 0.010UF K		
C10, 11			C90-3253-05	ELECTRO 1.0UF 50WV		
CN1			E40-8182-05	PIN ASSY		
CN2		*	E40-8304-05	PIN ASSY		
J1			E11-0344-05	MINIATURE PHONE JACK		
P1		*	E29-1640-14	LEAD PLATE		
-		*	J19-5932-03	HOLDER		
CP1			R90-0812-05	MULTI-COMP 10KX10 J 1/6W		
R51, 52			RS14KB3A331J	FL-PROOF RS 330 J 1W		
S2-17			S70-0031-05	TACT SWITCH		
S1			T99-0602-05	ROTARY ENCODER		
D6			MTZJ6.2(B)	ZENER DIODE		
D6			RD6.2ES(B2)	ZENER DIODE		
ED1		*	CM1740M	INDICATOR TUBE		
IC1			LC75710NED	MOS-IC		
Q1-4			DTC124ESA	DIGITAL TRANSISTOR		
Q1-4			UN4212	DIGITAL TRANSISTOR		
Q5, 6			DTA124ESA	DIGITAL TRANSISTOR		
Q5, 6			UN4112	DIGITAL TRANSISTOR		
Q8-15			2SC1740S(Q,R)	TRANSISTOR		
Q8-15			2SC2785(F,E)	TRANSISTOR		
A1			W02-2561-05	ELECTRIC CIRCUIT MODULE		
<b>MD UNIT (X33-1172-71)</b>						
C1, 2			CE04KW1H100M	ELECTRO 10UF 50WV	T1E1	
C5, 6			CE04KW1H3R3M	ELECTRO 3.3UF 50WV	T1E1	
C7, 8			CQ93FMG1H821J	MYLAR 820PF J	T1E1	
C9, 10			CE04KW1H3R3M	ELECTRO 3.3UF 50WV	T1E1	
C11			CQ93FMG1H104J	MYLAR 0.10UF J	T1E1	
C12			CK73FB1C224K	CHIP C 0.22UF K	T1E1	
C13, 14			CK73FB1H103K	CHIP C 0.010UF K	T1E1	
C15			CE04KW1A101M	ELECTRO 10UF 10WV	T1E1	

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C16, 17			CE04KW1A471M	ELECTRO 470UF 10WV	T1E1	
C18			C90-3623-05	BACK UP 0.33F 5.5V	T1E1	
C19			CE04KW1H2R2M	ELECTRO 2.2UF 50WV	T1E1	
C20			CQ93FMG1H104J	MYLAR 0.10UF J	T1E1	
C21			CE04KW1A470M	ELECTRO 47UF 10WV	T1E1	
C22			CE04KW1A221M	ELECTRO 220UF 10WV	T1E1	
C24			CE04KW1H101M	ELECTRO 100UF 50WV	T1E1	
C25			CE04KW1A470M	ELECTRO 47UF 10WV	T1E1	
C26			CE04KW1C331M	ELECTRO 330UF 16WV	T1E1	
CN2			E40-9566-05	PIN ASSY	T1E1	
CN4		*	E40-8307-05	FLAT CABLE CONNECTOR	T1E1	
L1			L40-1091-17	SMALL FIXED INDUCTOR	T1E1	
L2, 3			L92-0017-05	FERRITE CORE	T1E1	
X1			L78-0284-05	RESONATOR (5MHZ)	T1E1	
R13			RK73FB2A104J	CHIP R 100K J 1/10W	T1E1	
R16			RK73FB2A104J	CHIP R 100K J 1/10W	T1E1	
R18			RK73FB2A104J	CHIP R 100K J 1/10W	T1E1	
R20-24			RK73FB2A101J	CHIP R 100 J 1/10W	T1E1	
R26, 27			RK73FB2A101J	CHIP R 100 J 1/10W	T1E1	
R29			RK73FB2A101J	CHIP R 100 J 1/10W	T1E1	
R30			RK73FB2A103J	CHIP R 10K J 1/10W	T1E1	
R31			RK73FB2A101J	CHIP R 100 J 1/10W	T1E1	
R41			RS14KB3A220J	FL-PROOF RS 22 J 1W	T1E1	
R43			RD14NB2E4R7J	RD 4.7 J 1/4W	T1E1	
R52			RK73FB2A271J	CHIP R 270 J 1/10W	T1E1	
R53			RK73FB2A511J	CHIP R 510 J 1/10W	T1E1	
W51, 52			R92-0679-05	CHIP R 0 OHM	T1E1	
D1			S5688B	DIODE	T1E1	
D1			1SR139-400	DIODE	T1E1	
D2			MTZJ3.3(B)	ZENER DIODE	T1E1	
D2			RD3.3ES(B2)	ZENER DIODE	T1E1	
D3			MTZJ5.6(B)	ZENER DIODE	T1E1	
D3			RD5.6ES(B2)	ZENER DIODE	T1E1	
D4			MTZJ6.8(B)	ZENER DIODE	T1E1	
D4			RD6.8ES(B2)	ZENER DIODE	T1E1	
D5			HSS104A	DIODE	T1E1	
D5			1SS133	DIODE	T1E1	
IC1		*	UPD78058GC-B20	MI-COM IC	T1E1	
IC2			TC74HCT7007AF	IC(HEX BUFFER)	T1E1	
IC3			NJM4565M	IC(OP AMP X2)	T1E1	
Q1			DTA143TSA	DIGITAL TRANSISTOR	T1E1	
Q1			UN4116	DIGITAL TRANSISTOR	T1E1	
Q2			DTC124ESA	DIGITAL TRANSISTOR	T1E1	
Q2			UN4212	DIGITAL TRANSISTOR	T1E1	
Q3			2SA1048(Y,GR)	TRANSISTOR	T1E1	
Q3			2SA1175(F,E)	TRANSISTOR	T1E1	
Q5			DTC124ESA	DIGITAL TRANSISTOR	T1E1	
Q5			UN4212	DIGITAL TRANSISTOR	T1E1	
Q6			2SC2458(Y,GR)	TRANSISTOR	T1E1	
Q6			2SC2785(F,E)	TRANSISTOR	T1E1	
Q7, 8			2SD2525	TRANSISTOR	T1E1	
Q9			2SC2458(Y,GR)	TRANSISTOR	T1E1	
Q9			2SC2785(F,E)	TRANSISTOR	T1E1	

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PARTS LIST RXD-M51/M51MD

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
<b>MD MECHANISM UNIT (MDM-98A)</b>						
C1100			C92-0171-08	CHIP-C 4.7UF K		
C1101		*	C92-0205-08	ELECTRO 1.0UF 6.3WU		
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 6.3WU		
C1107			CK73GB1C333K	CHIP C 0.033UF K		
C1108			CK73FB1C474K	CHIP C 0.47UF K		
C1109		*	C92-0205-08	ELECTRO 1.0UF 6.3WU		
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 6.3WU		
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			CK73FCH1H121J	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		
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		

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
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		
CN1603		*	E40-8372-08	PIN ASSY		
CN1604			E40-8213-08	PIN ASSY		
CN1901			E40-8228-08	PIN ASSY		
CW1901			E40-8229-08	FLAT CABLE (5P)		
CW1903			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		

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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
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

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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
▲ 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			S68-0092-08	SWITCH		
SW1954, 55			S64-0035-08	SWITCH		
SW1956			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		

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RXD-M51/M51MD

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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		
<b>CD MECHANISM (D40-1612-05)</b>						
19	2A		D10-3659-04	ROD (GUIDE)		
20	1B		D13-1765-03	GEAR (DRIVING)		
21	2B		D13-1763-04	GEAR (MIDDLE)		
27	3A		E40-3264-05	PIN ASSY		
51	2A		J90-0844-03	GUIDE (RAIL)		
56	3A		S74-0065-05	LEAF SWITCH		
DM	2B	*	A11-1154-08	SUB CHASSIS ASSY		
FM	3B		T42-0872-08	FEED MOTOR ASSY		
PU	1A		T25-0050-05	PICKUP KCP1H		
<b>MD MECHANISM (D40-1602-05)</b>						
201	2D		J90-0857-08	GUIDE		
202	3C		J90-0858-08	GUIDE		
203	2D		A13-3122-08	FRAME		
204	3D		A10-3416-08	CHASSIS ASSY		
205	1C		J19-5899-08	HOLDER		
206	2C		D10-3789-08	SLIDER ASSY		
207	3D		D10-3790-08	ARM		
208	1C		D10-3791-08	ARM		
209	2C	*	D10-3853-08	ARM ASSY		
210	1C		D10-3793-08	SLIDER		
211	1C		D10-3794-08	ARM		
212	1C		D10-3795-08	SLIDER		
213	1C		G01-4046-08	SPRING		
214	3C		G01-4047-08	SPRING		
215	2C		G01-3972-08	SPRING		
216	1C	*	G01-3974-08	SPRING		
217	2C		G01-4110-08	SPRING		
218	1C		G01-3976-08	SPRING		
219	2C		G02-1651-08	FLAT SPRING		
220	2D		G02-1652-08	FLAT SPRING		
221	2C		G01-3973-08	SPRING		
222	2C		D13-1859-08	GEAR		
223	2C		D13-1860-08	GEAR		
224	3C		D13-1861-08	GEAR		
225	2C		D13-1862-08	GEAR		

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226	2C		D13-1863-08	GEAR		
229	1C		D13-1864-08	GEAR		
230	1C		D14-0394-08	ROLLER		
231	2C		D19-0312-08	LEAD SCREW		
232	2C		D21-1895-08	SHAFT		
233	2C		D10-3699-08	ROD		
234	3C		D10-3702-08	ROD		
235	1D		A01-3552-08	METALLIC CABINET		
236	3D		A01-3553-08	METALLIC CABINET		
237	1D	*	J02-1439-08	INSULATOR		
238	2D	*	J02-1440-08	INSULATOR		
239	1D		G11-2380-08	CUSHION		
242	2D	*	E35-2309-08	FLAT CABLE		
245	1C		F19-1083-08	SHEET		
246	2D		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	3C		T42-0904-08	MOTOR ASSY	M901	
FMMD	3C		T42-0905-08	MOTOR ASSY	M902	
LMMD	3C		T42-0906-08	MOTOR ASSY	M903	
PUMD	2C	*	T25-0080-08	PICKUP		
RHMD	1C		T30-0017-08	RECORD HEAD		
<b>CASSETTE MECHANISM (D40-1601-05)</b>						
301	1F		A10-3157-08	CHASSIS BASE		
305	1F		D01-0119-08	FLYWHEEL ASSY LEFT		
306	1G		D01-0205-08	FLYWHEEL ASSY RIGHT		
331	2F		D19-0310-08	CLUTCH ASSY		
369	2E		N87-2004-46	HEAD PCB SCREW		
370	2E		N87-2006-46	SCREW		
374	1G		N19-0904-08	WASHER		
375	1F, 1G		N19-0905-08	WASHER		
378	2F		N19-1214-08	WASHER		
380	2F		N29-0205-04	E RING		
389	2G		T94-0225-08	SOLENOID SHAFT		
391	1G	*	W02-2688-08	ELECTRIC UNIT B		
BM	1G		D16-0371-08	MAIN BELT		
BR	2G		D16-0372-08	REEL BELT		
MM	1F	*	T42-0933-08	MAIN MOTOR ASSY		
PF	2F	*	D14-0399-08	PINCH ROLLER ASSY (FWD)		
PR	1E	*	D14-0400-08	PINCH ROLLER ASSY (RVS)		
RPEH	2E	*	T39-0038-08	REC/PLAYBACK/ERASE HEAD		

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

**HOW TO READ THE PARTS LIST**

**ABBREVIATION OF MODEL AND MASS PRODUCTION'S DESTINATIONS**

MODEL	ABB.	Australia	Canada	China	England	Europe	Germany	Korea	Malaysia
RXD-M51MD		-	-	-	T1	E1	-	-	-
RXD-M51		-	-	-	T2	E2	-	-	-
MODEL	ABB.	Mexico	PX/AAFES	Russia	Scandinavia	Shanghai	USA	Other area	
RXD-M51MD		-	-	-	-	-	-	-	-
RXD-M51		-	-	-	-	-	-	M1	-

# RXD-M51/M51MD

## SPECIFICATIONS

### **RXD-M51**

#### **[Amplifier section]**

Effective output power during STEREO operation	
1 kHz, 10 % T.H.D., at 6 Ω	25 W + 25 W
Rated output power during STEREO operation	
Other countries	
1 kHz, 0.7 % T.H.D., at 6 Ω	20 W + 20 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	531 kHz ~ 1,602 kHz

#### **[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: 105 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	100 W
Dimensions	W : 200 mm H : 245 mm D : 300 mm
Weight (net)	4.9 kg

### **RXD-M51MD**

#### **[Amplifier section]**

Effective output power during STEREO operation	
1 kHz, 10 % T.H.D., at 6 Ω	25 W + 25 W
Rated output power during STEREO operation	
1 kHz, 0.7 % T.H.D., at 6 Ω	20 W + 20 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	531 kHz ~ 1,602 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: 105 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	100 W
Dimensions	W : 200 mm H : 245 mm D : 300 mm
Weight (net)	5.9 kg



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-M51/M51MD

**Note:**

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

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