

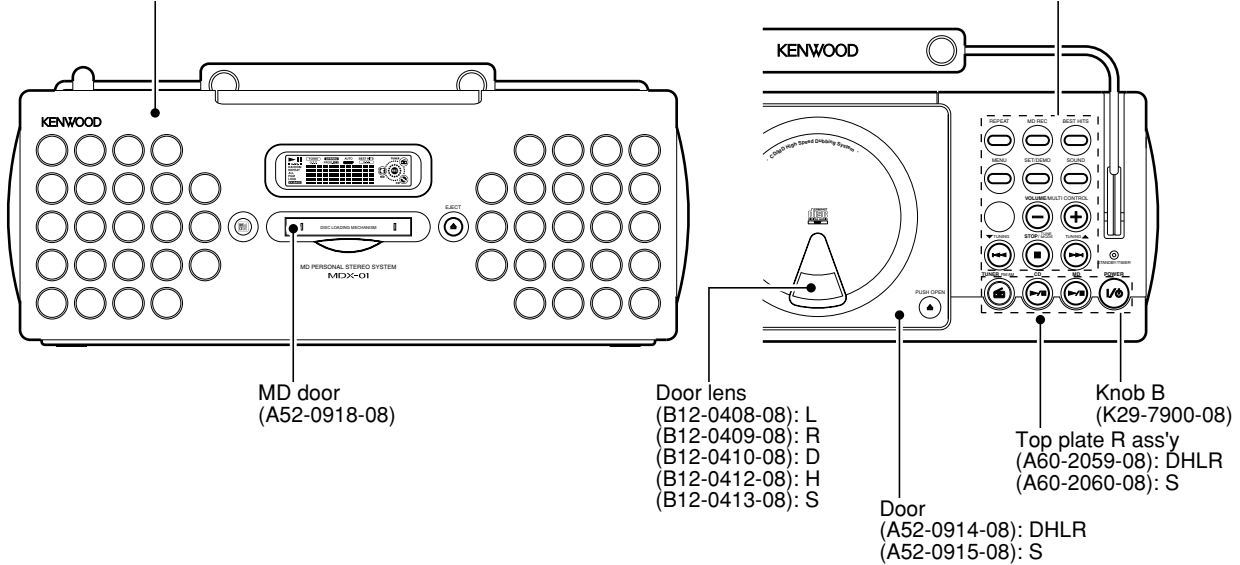
MD PERSONAL STEREO SYSTEM
MDX-01/02
 SERVICE MANUAL

KENWOOD

© 2000-12/B51-5691-00 (K/K) 332

Front cabinet(OUTER) ass'y
 (A60-1942-08): L
 (A60-1943-08): R
 (A60-1944-08): D
 (A60-1946-08): H
 (A60-1947-08): S

Knob A
 (K27-7893-08): S
 (K29-7895-08): L
 (K29-7896-08): H
 (K29-7898-08): D
 (K29-7899-08): R

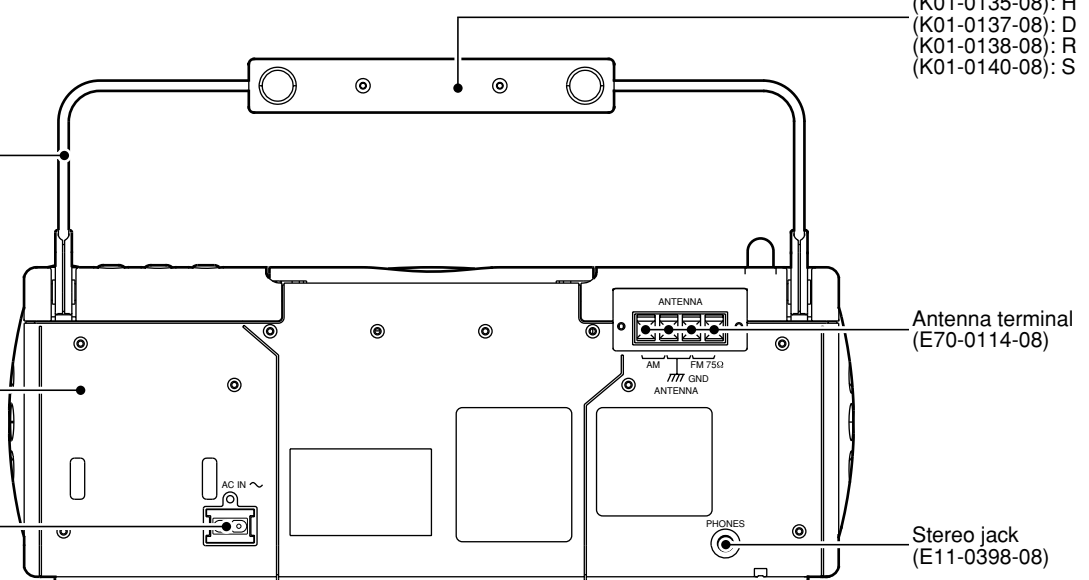


Handle(REAR)
 (K01-0134-08): L
 (K01-0135-08): H
 (K01-0137-08): D
 (K01-0138-08): R
 (K01-0140-08): S

Handle
 (K01-0139-08)

Rear cabinet
 (A02-2987-08): S
 (A02-2988-08): DHLR

AC socket
 (E03-0375-08)



D: ORANGE, H: GREY, L: BLUE, R: RED, S: SILVER

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

Note: Please contact KENWOOD service in your side if you want to get the AC power cord.

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

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



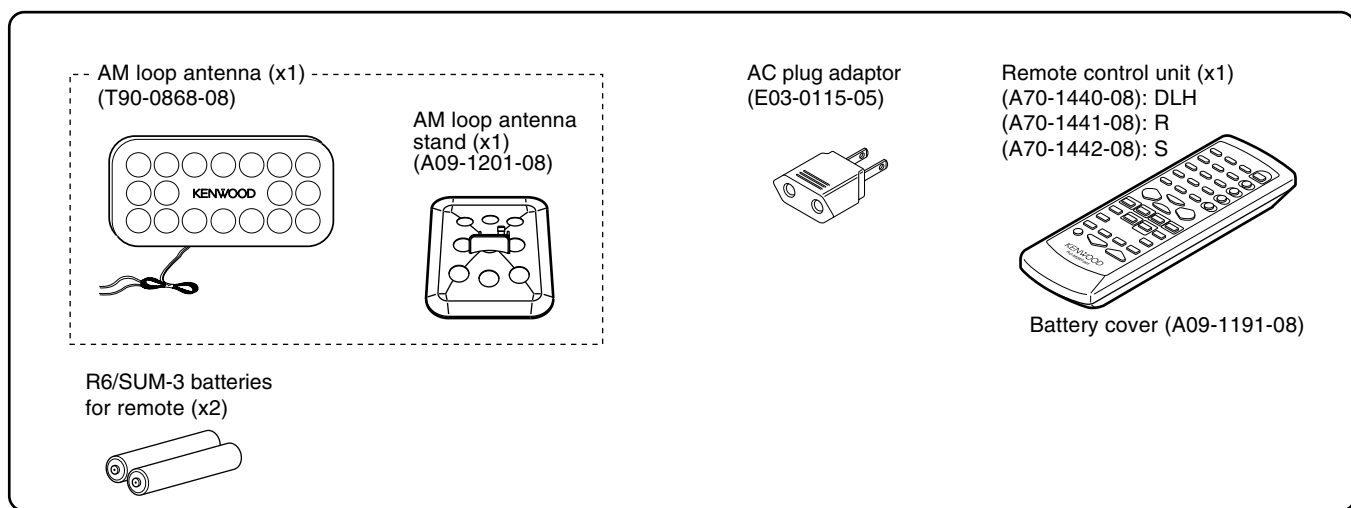
MDX-01/02

CONTENTS / ACCESSORIES

Contents

CONTENTS / ACCESSORIES	2	PC BOARD	10
DISASSEMBLY FOR REPAIR	3	SCHEMATIC DIAGRAM	13
CIRCUIT DESCRIPTION	4	EXPLODED VIEW	25
ADJUSTMENT	8	PARTS LIST	27
PARTS DESCRIPTIONS	9	SPECIFICATIONS	Back cover

Accessories



Caution on condensation

Condensation (of dew) may occur inside the unit when there is a great difference in temperature between this unit and the outside.

This unit may not function properly if condensation occurs. In this case, leave the unit for a few hours and restart the operation after the condensation has dried up.

Be specially cautious against condensation in a following circumstance:

When this unit is carried from a place to another across a large difference in temperature, when the humidity in the room where this unit is installed increases, etc.

Note related to transportation and movement

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

- (1) Remove the CD or MD from the unit.
- (2) Press the ►/|| key of the MD.
- (3) Wait for some time and verify that the display becomes as shown in the figure.



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



- (6) Wait a few seconds and turn the unit OFF.

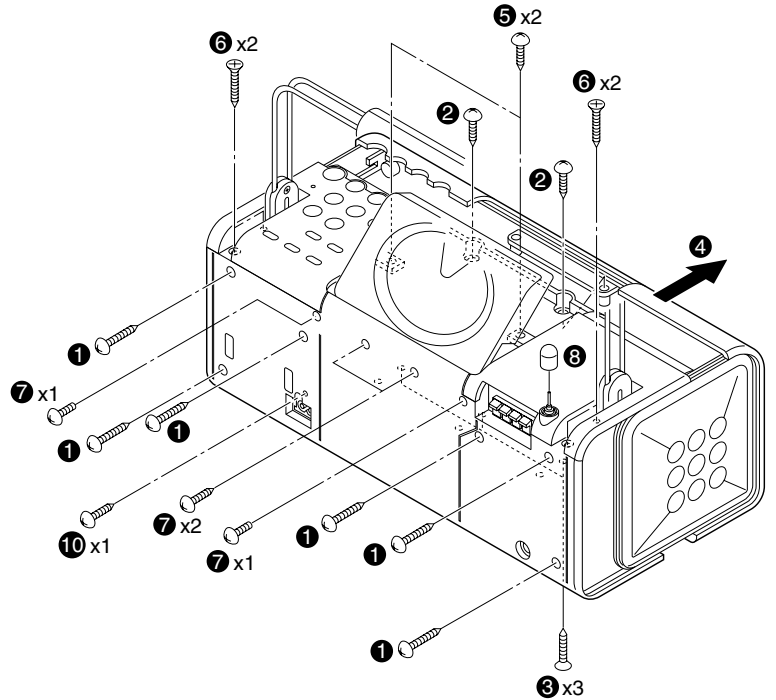
DISASSEMBLY FOR REPAIR

1. How to Remove Front Cabinet

1. Remove 6 screws(1) from the rear cabinet side.
2. Remove 2 screws(2) fixed CD and the front cabinet.
3. Remove 3 screws(3) from the bottom front side.
4. Move the front cabinet frontwards(4).

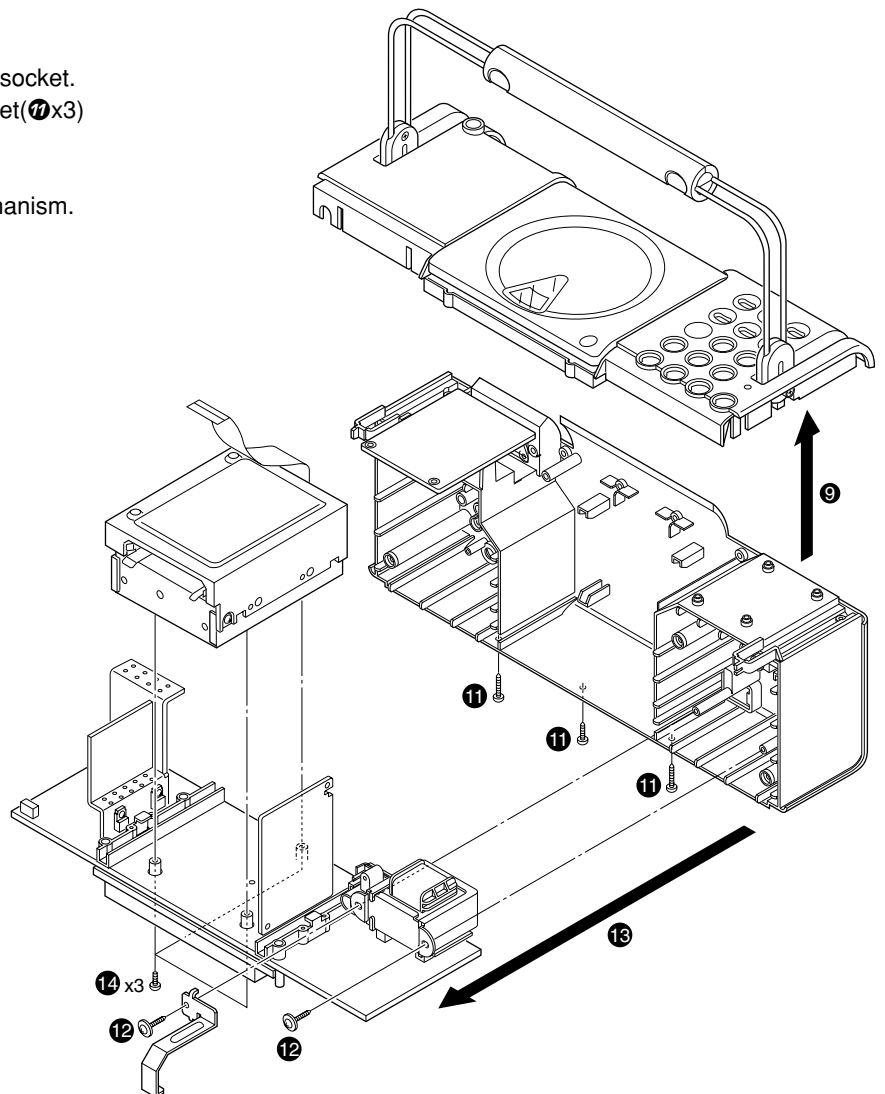
2. How to Remove CD and Top Covers

1. Remove 2 screws fixed CD and top covers(5).
2. Remove 8 screws fixed the carrying handle (6x4) and the rear cabinet(7x4).
3. Turn the antenna cap(8) to remove and lift the carrying handle and CD mechanism(9).



3. How to Remove MD Mechanism

1. Remove the screw(10) fixed the AC inlet socket.
2. Remove 5 screws fixed the bottom cabinet(11x3) and the power transformer(12x2).
3. Move the main pcb frontwards(13).
4. Remove 3 screws(14) fixed the MD mechanism.



CIRCUIT DESCRIPTION

1. INITIALIZATION

1-1 How to Set Initialization

Insert the power cord to AC outlet with pressing REPEAT key.

1-2 Operation in Initialization mode

Display shows INITIALIZE, and Standby mode after mechanism check.

The Display shows error code if mechanism has malfunction.

Error Code	
CD	In 1st figure "C"
MD	In 3rd figure "M"
CD Door SW	In 7th figure "S"

The unit changes to shipment mode after RAM and backup clear, disc out, and so.

2. TUNER PRESET

P.CH	BAND	FREQ.	P.CH	BAND	FREQ.
1	FM	98.30 MHz	21	AM	531 kHz
2	FM	87.50 MHz	22	FM	87.50 MHz
3	FM	89.10 MHz	23	FM	87.50 MHz
4	FM	108.00 MHz	24	FM	87.50 MHz
5	FM	90.00 MHz	25	FM	87.50 MHz
6	FM	87.50 MHz	26	FM	87.50 MHz
7	FM	87.50 MHz	27	FM	87.50 MHz
8	FM	87.50 MHz	28	FM	87.50 MHz
9	AM	1602 kHz	29	FM	87.50 MHz
10	AM	999 kHz	30	FM	106.00 MHz
11	AM	630 kHz	31	FM	87.50 MHz
12	AM	1440 kHz	32	FM	87.50 MHz
13	FM	106.00 MHz	33	FM	87.50 MHz
14	AM	531 kHz	34	FM	87.50 MHz
15	FM	87.50 MHz	35	FM	87.50 MHz
16	FM	98.00 MHz	36	FM	87.50 MHz
17	FM	98.50 MHz	37	FM	87.50 MHz
18	FM	87.50 MHz	38	FM	87.50 MHz
19	AM	990 kHz	39	FM	87.50 MHz
20	FM	97.70 MHz	40	AM	945 kHz

3. TEST MODE

3-1 TEST Mode Setting

TEST MODE	SETTING	Insert the power cord to outlet with pressing every left key
CD	MD REC	
MD 1	SKIP UP	
* FTC & Sub-Clock Oscillation Check Mode	BEST HITS	
MD mode2	SKIP DOWN	

* FTC&Sub-Clock Oscillation Check Mode

FTC test mode is after Sub-Clock Oscillation Check Mode (Internal Oscillation, Check of Period) Check Mode is 5 times maximum. FTC carries if 1 time OK.

The unit is STOP mode after display shows error if 5 times NG.

No Oscillation → ERR 1 Period NG → ERR 2
(FTC mode is factory use only)

3-2 Test Mode Cancel

The unit cancel the test mode after initialization if pull out power cord.

The unit cancel the test mode after no initialization if power off.

3-3 Key Function in Test Mode

KEY	CD MODE	MD MODE 1
CD PLAY	T-SERVO ON(05) ⇔ T-SERVO OFF(03)	—
STOP	Stop to CD operation(01) <div style="border: 1px solid black; padding: 5px; width: fit-content;"> TB/FB (07) ↓ TG/FG (08) In STOP mode. ↓ FE/RF (09) Selfcheck result shows 2 figures ↓ TE/VC (10) </div>	Stop to operation. Change to mute-off.
MENU	HI SPEED(double speed) ⇔ NOR SPEED: in playback	Choose the REC input; digital or analog in stop mode.
SKIP UP	Playback in STOP mode. Track up of CD. FF search of CD if key pressed more 400ms. Pickup move outwards in STOP mode if key pressed more 400ms.	Track up of MD. FF search of MD if key pressed more 400ms.
SKIP DOWN	Playback in STOP mode. Track down of CD. FB search of CD if key pressed more 400ms. Pickup moves inwards in STOP mode if key pressed more 400ms.	Track down of MD. FB search of MD if key pressed more 400ms.

4. MD TEST MODE FOR ADJUSTMENT

4-1 Entering the Test Mode (MD Mode2)

While pressing the SKIP DOWN key, turn the AC on.

4-2 Cancelling the Test Mode

Turn the AC off.

4-3 Key Operations for Adjustment

KEYS	OPERATION
SKIP UP/DOWN	Select mode or adjustment value change.
MD PLAY/PAUSE	Fix mode or adjustment value.
STOP	Cancel the selected mode.
SKIP UP *	Pickup moves outwards when pressed skip up key.
SKIP DOWN *	Pickup moves inwards when pressed skip down key.

* Remote control only.

4-4 Selection of Adjustment Test Mode

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

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

For more information on each adjustment mode, refer to each section of 5, "Electrical adjustment".

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

* The number 9 - 13 are not used for service. If these mode have been entered incorrectly, press the STOP key immediately to exit the mode. Specially, do not use EEP INITIAL. (E2PROM data has initialized if used it.)

CIRCUIT DESCRIPTION

4-5 Continuous Playback Mode

1. Setting of Continuous Playback Mode		
No.	Key	Display/Function
1	◀▶▶▶	Select [CPLAY MODE]
2		Load disc
3	PLAY	[CPLAY MID] [c=xxxx a=yy] error (xxxx=C1 error, yy=ADIP error)
4	STOP	[CPLAY MODE]
2. Change of Playback Points(in continuous playback mode)		
No.	Key	Display/Function
1		Carry out No.1 to 3 in the above table.
2	PLAY	[CPLAY OUT] [c=xxxx a=yy] error (xxxx=C1 error, yy=ADIP error)
3	PLAY	[CPLAY IN] [c=xxxx a=yy] error (xxxx=C1 error, yy=ADIP error)
4	STOP	[CPLAY MODE]
5	EJECT	Disc out

4-6 Continuous Recording Mode

1. Continuous Recording Setting		
No.	Key	Display/Function
1	◀▶▶▶	Select [CREC MODE]
2		Load the recordable disc
3	PLAY	[CREC MID]
4	PLAY	[CREC (zzzz)] CREC address (0300h cluster=recording start point)
5	STOP	[CREC MODE]
2. Change and End of Recording Points		
1		Carry out No.1 to 3 in the above table Select[CREC MID]
2	▶▶▶	[CREC OUT]
3	PLAY	[CREC (zzzz)] CREC address (0700h cluster=recording start point)
4	STOP	[CREC MODE]
5	PLAY	[CREC MID]
6	▶▶▶ (2time)	Select [CREC IN]
7	PLAY	[CREC (zzzz)] CREC address (0300h cluster=recording start point)
8	STOP	[CREC MODE]
9	EJECT	Disc out

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

5. ELECTRICAL ADJUSTMENT

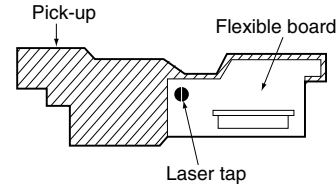
5-1 Precaution during confirmation of Laser Diode emission

During adjustment, do not view the emission of a laser diode from just above for confirmation. This may damage your eyes.

5-2 Precaution on handling of Optical pick-up (KMS-260B)

The laser diode in an optical pick-up is easy to be subject to electrostatic destruction. Therefore, solder-bridge the laser tap on the flexible board when handling the optical pick-up.

When removing the flexible board from the connector, make a solder bridge in advance, then remove the board. Be careful not to remove the solder bridge before inserting the connector. Moreover, take careful measures against electrostatic destruction. The flexible board is cut easily. Handle the flexible board with care.



5-3 Precaution during adjustment

- Perform the adjustment and confirmation marked with "O" in the order shown in the table when the parts below are replaced.

	Optical pick-up	BD board		
		IC6	D101	IC1,IC2,IC10
1. Temperature compensation offset adjustment	X	O	O	O
2. Laser power adjustment	O	O	X	O
3. Traverse adjustment	O	O	X	O
4. Focus bias adjustment	O	O	X	O
5. Error rate confirmation	O	O	X	O

- In the test mode, perform the adjustment. After adjustment is completed, cancel the test mode.
- Perform the adjustment in the order described.
- Use the following tools and measurement equipment.
 - CD test disc TGYS-1
 - Laser power meter
 - Oscilloscope (with bandwidth of more than 40 MΩ) (Calibrate the probe before measurement.)
 - Digital voltmeter
 - Thermometer
- Take care that VC and GND (ground) are not connected on the oscilloscope when two or more signals are monitored on the oscilloscope. (VC and GND are short-circuited in this case.)

5-4 Creating the recordable continuous recording disc

This disc is used for focus bias adjustment and error rate confirmation. How to create the recordable continuous recording disc is 4-6.

5-5 Offset Adjustment

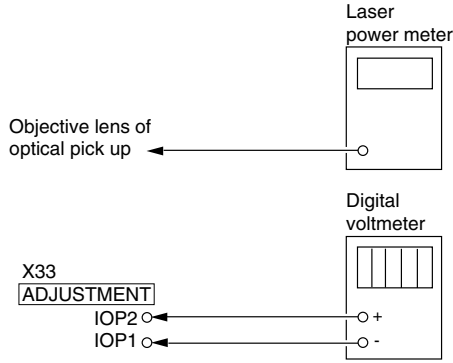
No.	Key	Display/Function
1	◀▶▶▶	Select [TEMP ADJU]
2	PLAY	[TEMP=xx (yy)] (xx=compensation data, yy=setting temperature)
3	◀▶▶▶	Input "yy" with present temp..
4	PLAY	[TEMP=**SAVE] in writing data [TEMP ADJU ST]

5-6 Laser Power Check and Adjustment

Laser power setting in playback and recording modes.
Preparation

- Remove the MD mechanism from the unit.
- Connect the digital voltmeter to IOP1 and 2 on X33 pcb.
- Remove the top plate from traverse unit.
- Remove the magnetic head.
- Remount the MD mechanism to the unit

CIRCUIT DESCRIPTION



1. Laser Power Adjustment

No.	Key	Display/Function
1	◀▶▶▶	[LDPWR ADJU]
2		Load recordable disc
3	PLAY	Load the disc and lazer on [(a0.9mW) \$xx] read power (xx=power value)
4	EJECT	Unload the disc and laser on
5	PLAY	[LDPWR CHECK]
6	◀▶▶▶	Move the pickup to check the laser power with laser power meter sensor
7	◀▶▶▶	Adjust "xx" so that the power meter shows 0.9mW.
8	PLAY	[(a7.0mW) \$xx] writing power
9	◀▶▶▶	Adjust "xx" so that the power meter shows 7.0mW. This adjustment should be carried out in 15 secs.
10	PLAY	Laser power off Display shows [LDPWR ADJUST] after [LDPWR<\$xx] to save the data in E2PROM

Start from No.2 if readjust.

2. Laser Power Check

No.	Key	Display/Function
1	◀▶▶▶	[LDPWR CHEC]
2	PLAY	[(c0.9mW) \$xx] (xx=0.85 to 0.95mW)
3	PLAY	[(c7.0mW) \$xx] Laser power meter: 7.0±1.0mW* VOM:optical pickup indication value ±10%*

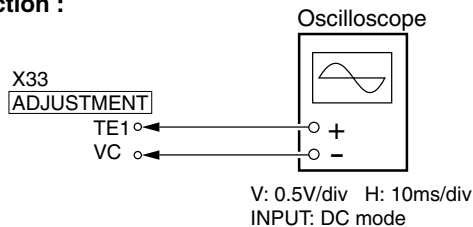
(optical pick-up label)



* In this case, $I_{op} = 82.5 \text{ mA}$
 $I_{op}(\text{mA}) = \text{Reading of digital voltmeter}(\text{mV})/1(\Omega)$

5-7 EF Balance(Traverse Adjustment)

Connection :



1. Recordable Disc

No.	Key	Display/Function
1		Connect the oscilloscope to TE1 and VC in X33 pcb
2	◀▶▶▶	Select [EFBAL ADJU]
3		Load the recordable disc
4	PLAY	[EFBAL MO-W]
5	PLAY	[EF=\$:::MOW]
6	◀▶▶▶	Write power adjustment. Adjust the waveform as follows.
7	PLAY	Display shows [EF=\$:::MOR] after [EFB=:::xSAVE] to save the data in E2PROM. Mode changes write to read Focus and disc servo are on. Tracking servo off.
8	◀▶▶▶	Read power adjustment. Adjust the waveform as follows.
9	PLAY	Save the data in E2PROM. Display shows [EFBAL MO-P]
	PLAY	Display shows [EF=\$:::MOP] (Pickup travels to search pits and tune the servo to on.)
10	◀▶▶▶	Adjust the waveform as follows.
11	PLAY	Display shows[EFB=:::xSAVE] to save the data in E2PROM. Display shows [EFBAL CHAN]
12	EJECT	Unload disc.

2. Pre Master Test Disc(TGYS-1)

No.	Key	Display/Function
1		Load the disc(TGYS-1). [EFBAL CD]
2	PLAY	[EF=\$:::CD] servo is on
3	◀▶▶▶	Adjust the waveform as follows.
4	PLAY	Save the data in E2PROM. Display shows[EFB=:::xSAVE] in brief time. [EF PHASE]
5	EJECT	Unload disc.

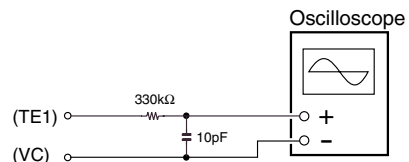
During this adjustment, the oscilloscope changes in units of about 2%. Adjust so that the waveform comes nearest to the specified value. (MO groove read power traverse adjustment)



Specification : A = B

Notes :

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

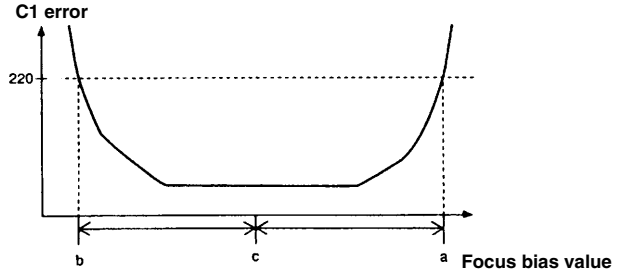


CIRCUIT DESCRIPTION

5-8 Focus Bias Adjustment

Use the special disc(continuous recorded disc)

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



* Notes :

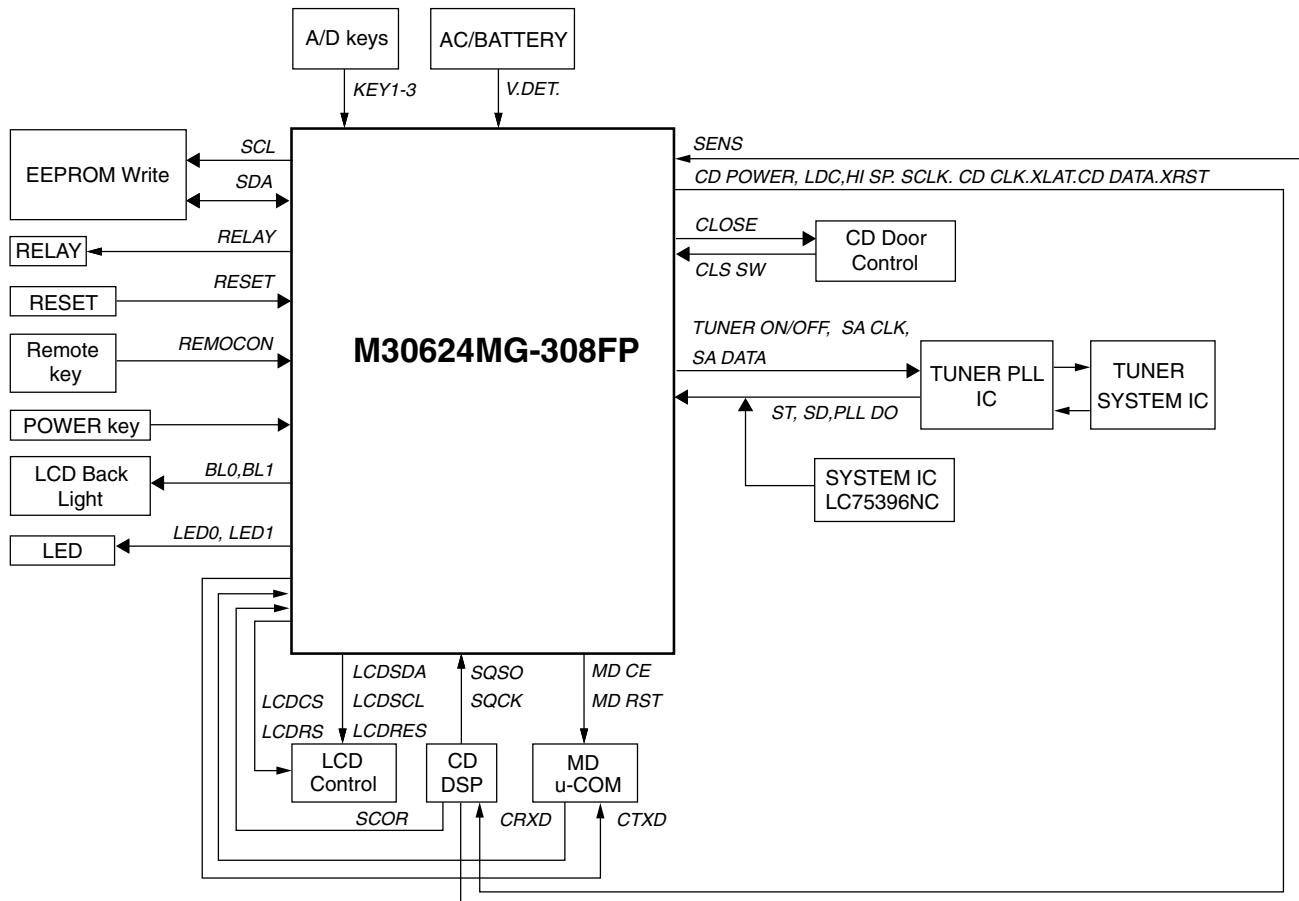
- The relation between the C1 error and focus bias value is shown in the figure below. Points "a" and "b" in the figure are detected by the above adjustment. Focal position "C" is automatically obtained from points "a" and "b" by calculation.
- The C1 error rate fluctuates. Therefore, perform the adjustment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

5-9 Error Rate Check

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

6. Microprocessor: M30624M-308FP(IC401)

6-1 Periphery Block Diagram



CIRCUIT DESCRIPTION

6-2 Microprocessor's Port Description

Port #	Port Name	I/O	Description	ACTIVE	
				H	L
1~3	NC	-	No use		
4	SDA	O	EEP ROM data		
5	SCL	O	EEP ROM clock		
6	RELAY	O	Main power supply control	ON	OFF
7	CE	I	No power supply detection	AC ON	AC OFF
8	BYTE	-	GND		
9	CNVSS	-	GND		
10	XCIN	I	Oscillation for clock(32.768MHz)		
11	XCOU	O	Oscillation for clock(32.768MHz)		
12	RESET	I	Microprocessor reset port	NORMAL	RESET
13	XOUT	O	Oscillation for main clock(10MHz)		
14	VSS	-	GND		
15	XIN	I	Oscillation for main clock(10MHz)		
16	VCC(B.U.)	I	Standard voltage for A/D converter(+5V)		
17	NMI	I	+5V		
18	REMOCON	I	Remote control signal H→L: interrupt		
19	POWER KEY	I	Power key signal control	other	backup
20	SCOR	I	Sub-code synchro signal control L→H: interrupt		
21	LCD RS	O	Reset port of LCD driver		
22,23	NC	-	No use		
24	B.L.0	O	Back light dimmer. L=dark, H=bright(#26 port(B.L.1)=L)		
25	LED0	O	Standby led control	OFF	ON
26	B.L.1	O	Back light dimmer. H=dark, L=bright(#24 port(B.L.0)=L)		
27	LED1	O	Timer led control	OFF	ON
28	LCD CS	O	CS port of LCD driver		
29	CTXD	O	TXD port of UART		
30	CRXD	I	RXD port of UART		
31	LCD DATA	O	Data port of LCD driver		
32	NC	-	No use		
33	LCD CLK	O	Clock port of LCD driver		
34	LCD RST	O	Reset port of LCD driver		
35	NC	-	No use		
36	SQSO	I	CD sub-code		
37	SQCK	I	Clock for CD sub-code		
38	MD CE	O	MD IC CE		
39	MD RST	O	MD reset signal	RESET	NORMAL
40~55	NC	O	No use		
56	CD ON/OFF	O	CD power control	ON	OFF
57	NC	-	No use		
58	AMUTE	O	Audio mute signal	OFF	ON
59	TU CLK	O	PLL/SYSTEM IC clock		
60	ST	I	Tuner stereo signal	MONO	STEREO
61	SD	I	Tuning signal	NO	TUNED
62	VCC(B.U.)	O	No use		
63	NC	-	No use		
64	VSS	-	GND		
65	TU DATA	O	PLL/SYSTEM IC data		
66	TU CE	O	PLL/SYSTEM IC CE		
67	PLL DO	I	PLL IC data		
68	NC	-	No use		
69	LDC	O	CD laser control	ON	OFF
70	CLS SW	I	CD door close detection	OFF	ON
71	OPN SW	-	No use		
72	CLOSE	O	No use		

CIRCUIT DESCRIPTION

Port #	Port Name	I/O	Description	ACTIVE	
				H	L
73	OPEN	O	No use		
74	HI SP	O	Recording signal in high speed mode		NORMAL
75	SCLK	O	CD sense clock		
76	SENS	I	CD sense		
77	CD CLK	O	Clock for CD DSP		
78	XLAT	O	Latch for CD DSP		
79	CD DATA	O	Data for CD DSP		
80	CD XRST	O	Reset for CD DSP	NORMAL	RESET
81	CODE	I	Model selector		
82	CODE	I	Model selector	KITTY	NORMAL
83	CODE	I	Model selector		
84~87	NC	-	No use		
88	LOOP	-	No use		
89,90	NC	-	No use		
91	V.DET	I	AC power supply detection(less 1.25V:detect)		
92	NC	O	No use		
93~95	KEY1~3	I	Key signal	ON	OFF
96	AVSS	-	GND		
97	NC	-	No use		
98	VREF	I	Standard voltage for A/D converter		
99	VCC(B.U.)	I	Standard voltage for A/D converter(+5V)		
100	NC	O	No use		

6-3 Key Matrix

* Reference voltage=5V.()=Port of Microprocessor

Voltage[V]	0.00~0.46	0.47~1.32	1.33~2.14	2.15~3.00	3.01~3.80	3.81~4.60	more 4.61
KEY 1 (#93)	-	SKIP UP	MD EJECT	SET/DEMO	MENU	-	KEY OFF
KEY 2 (#94)	POWER	CD	BEST HITS	TUNER	REPEAT	SOUND	KEY OFF
KEY 3 (#95)	STOP	SKIP DOWN	VOL.+	VOL.-	MD	MD RE	KEY OFF

ADJUSTMENT

CD section

NO.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	CD PLAYER SETTINGS	ALIGNMENT	ALIGN FOR	FIG.
TEST MODE : While pressing the MD REC key ,plug the power cord into the AC power wall output. Load the TEST DISC.							
[1]	LASER CURRENT CHECK	Test disc type 4	Connect the DC voltmeter across R208A (Q201-E)	Press the PLAY/PAUSE key to check that the display is 03 or05.	-	220~550mV	
[2]	FOCUS ERROR BIAS (Set up horizontally)	Test disc type 4	Connect an oscilloscope as follows. CH1:RF GND:REF	Press the PLAY/PAUSE key . Confirm that the display is 05.	VR 201	Optimum eye pattern	

Note:

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

Tuner section

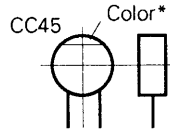
NO.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	RECEIVER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION: SELECTOR: FM							
1	TUNING LEVEL	98.0MHz MONO 1 kHz, ± 40 kHz dev. 30dBf (ANT. input)	-	MONO 98.0 MHz	TUNER PACK VR 101	Adjust VR101 and stop at the point where LCD801(TUNED) goes on.	

PARTS DESCRIPTIONS

CAPACITORS

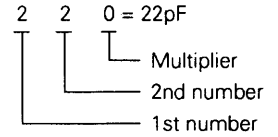
CC 45 TH 1H 220 J
 1 2 3 4 5 6

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



• Capacitor value

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



• Temperature coefficient

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

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

Example : CC45TH = -470 ± 60ppm/°C

• Tolerance (More than 10pF)

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

(Less than 10pF)

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

• Voltage rating

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

• Chip capacitors

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

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

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

(Chip) (B, F)

Refer to the table above.

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

Dimension (Chip capacitors)

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

RESISTORS

• Chip resistor (Carbon)

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

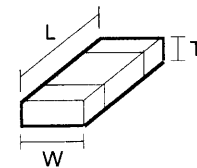
(Chip) (B,F)

• Carbon resistor (Normal type)

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

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

Dimension



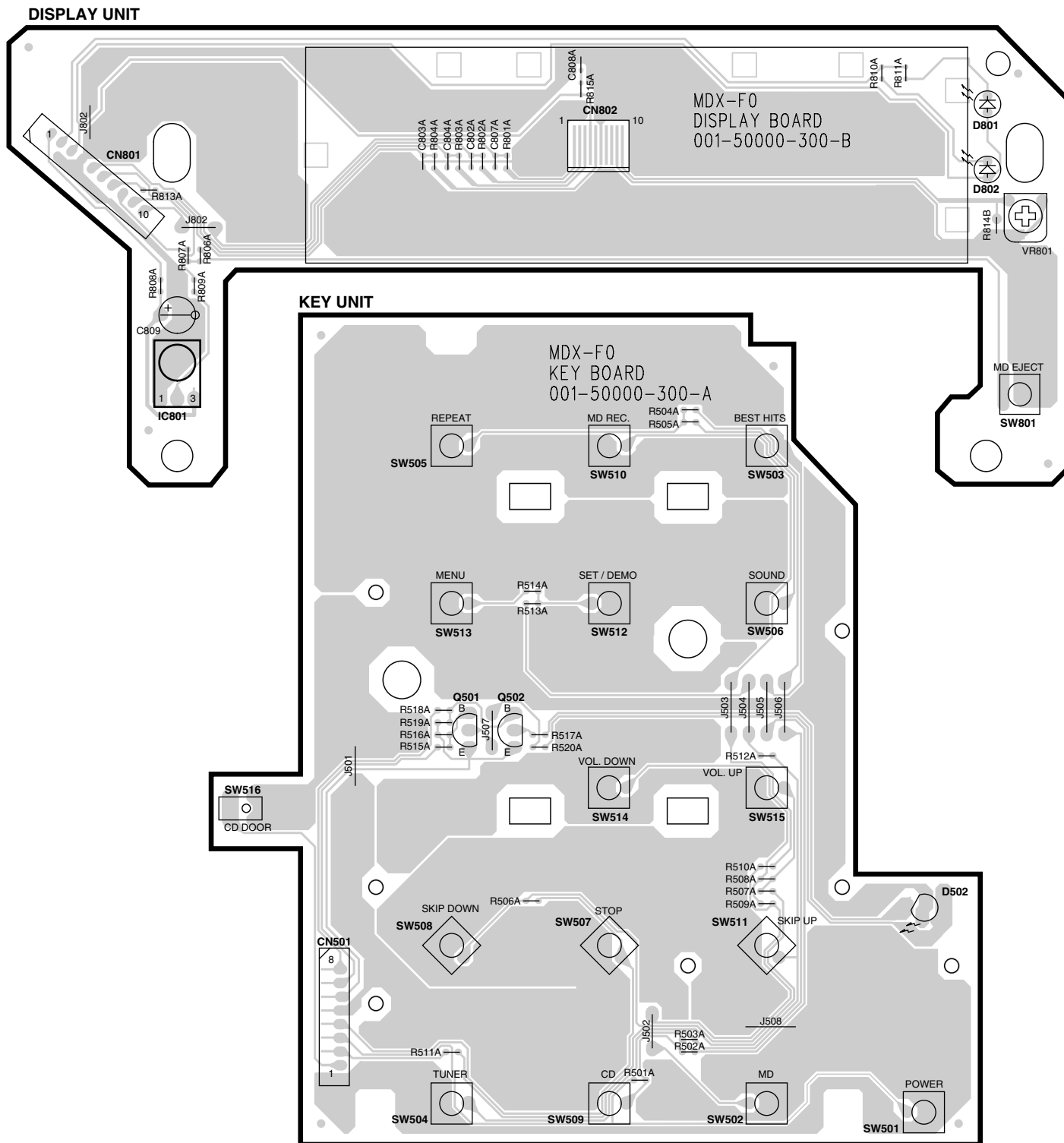
Dimension (Chip resistor)

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

Rating wattage

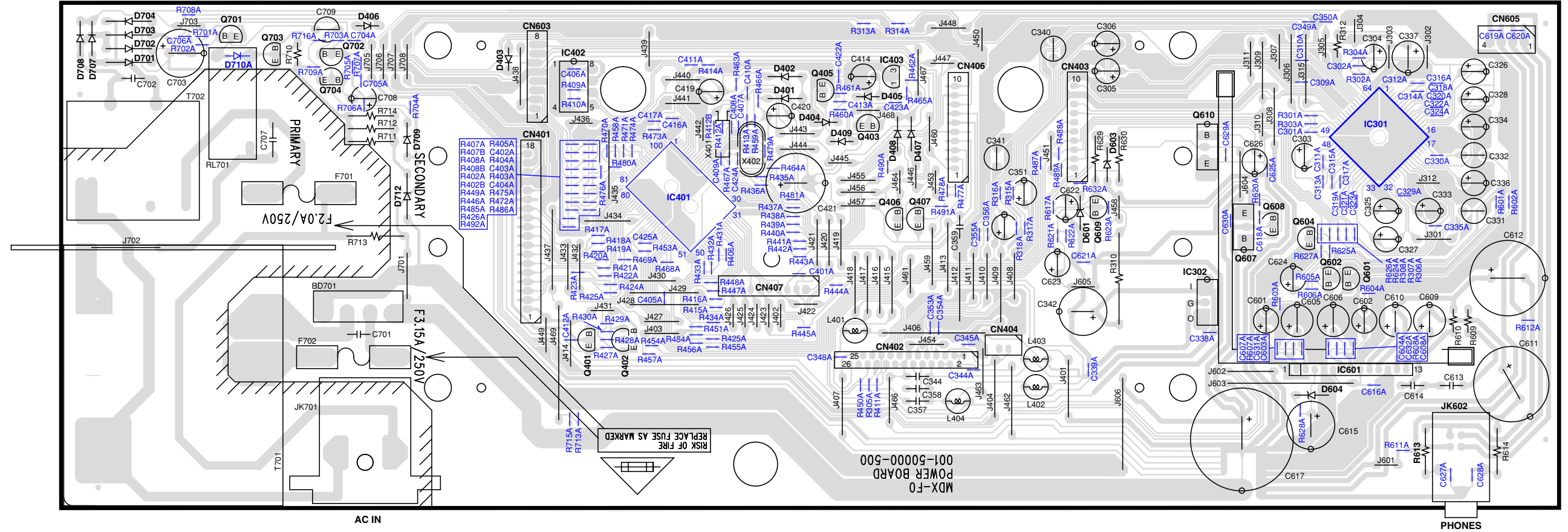
Code	Wattage	Code	Wattage	Code	Wattage
1J	1/16W	2C	1/6W	3A	1W
2A	1/10W	2E	1/4W	3D	2W
2B	1/8W	2H	1/2W		

PC BOARD (Component side view)

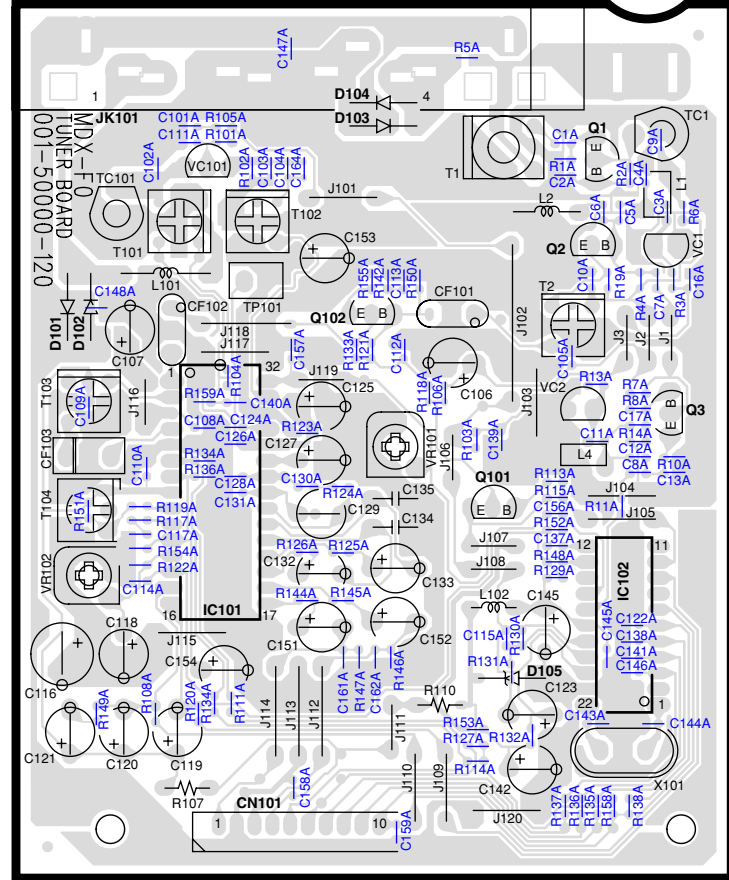


PC BOARD(Component side view)

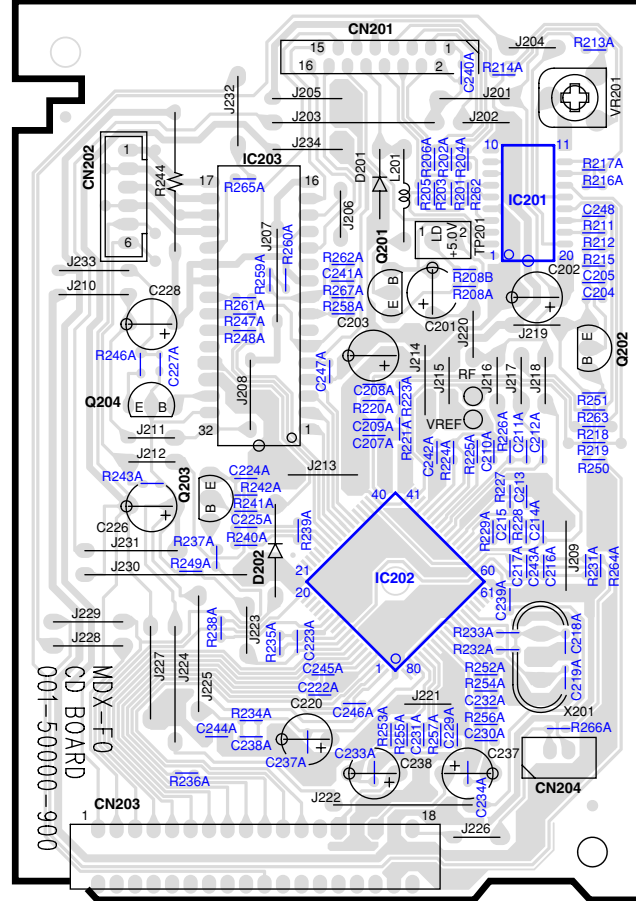
POWER UNIT



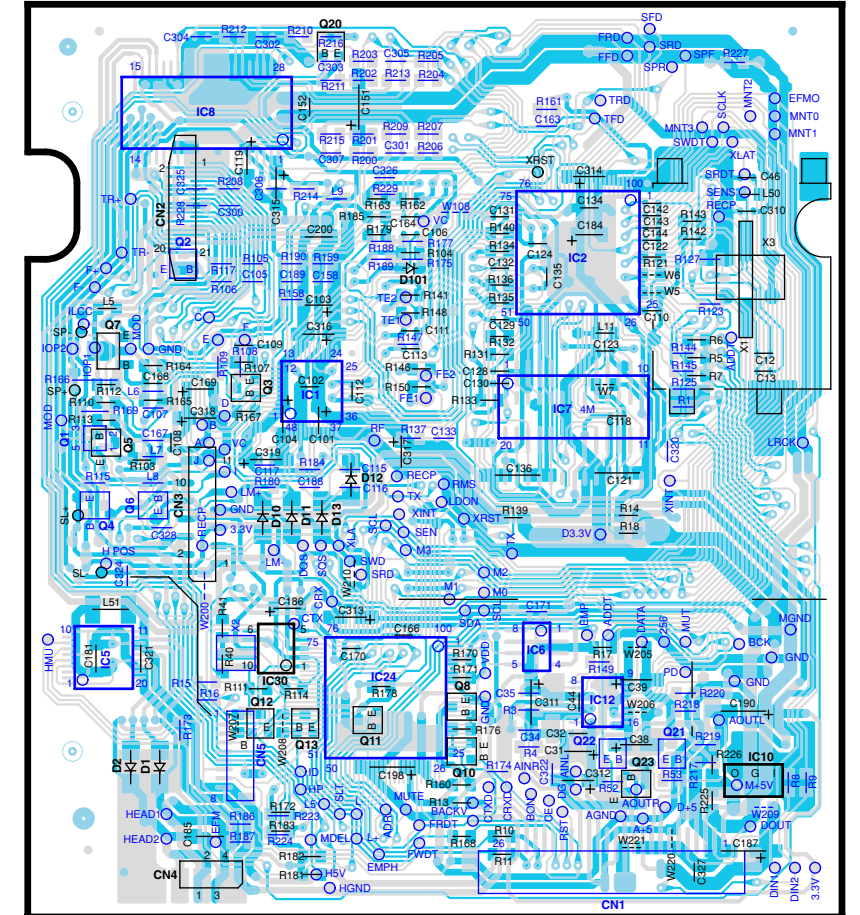
TUNER UNIT



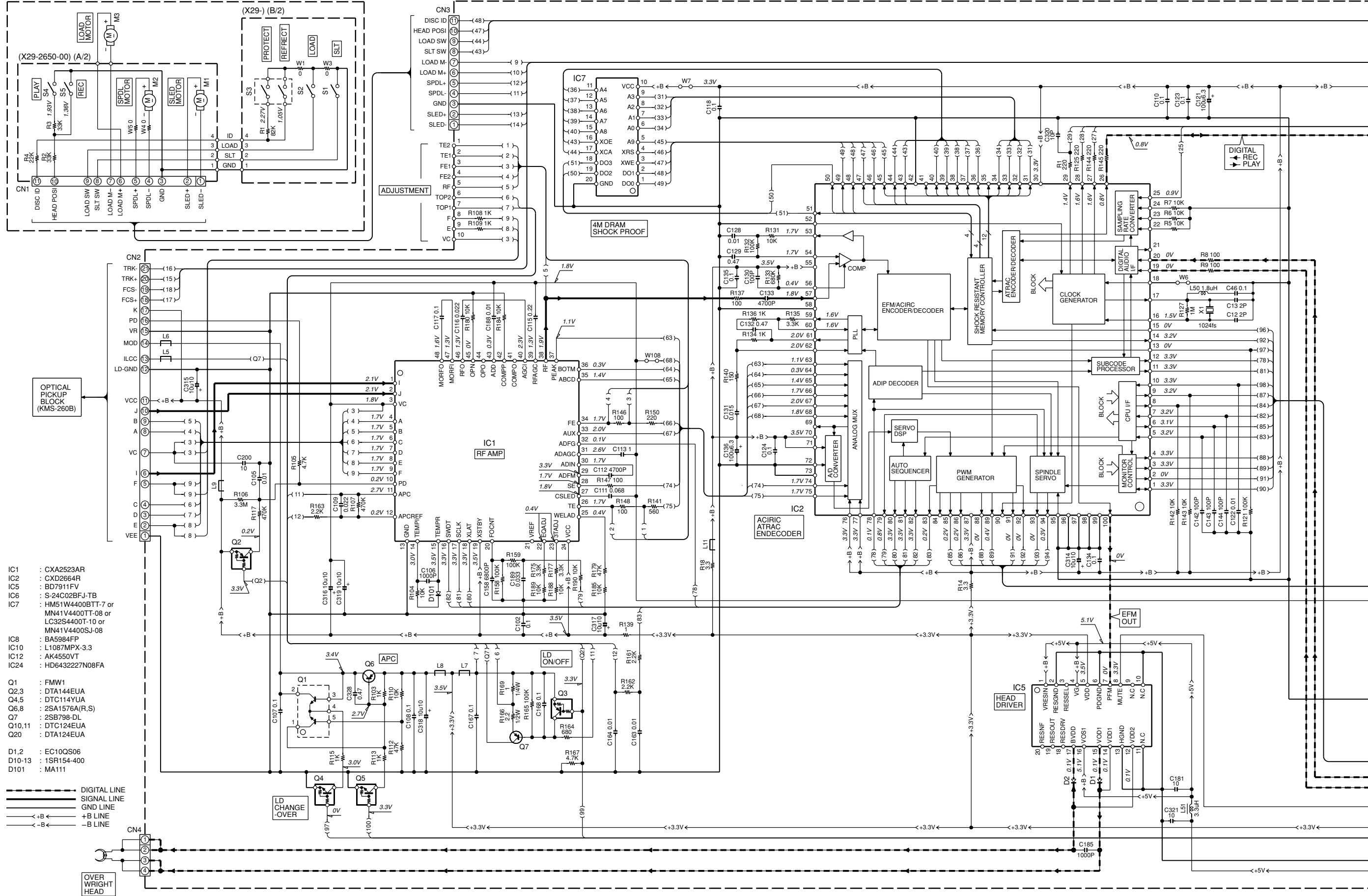
CD UNIT



X33-1270-00 (J70-1453-22)



MD MECHANISM
(D40-1706-05) : MDM-06G

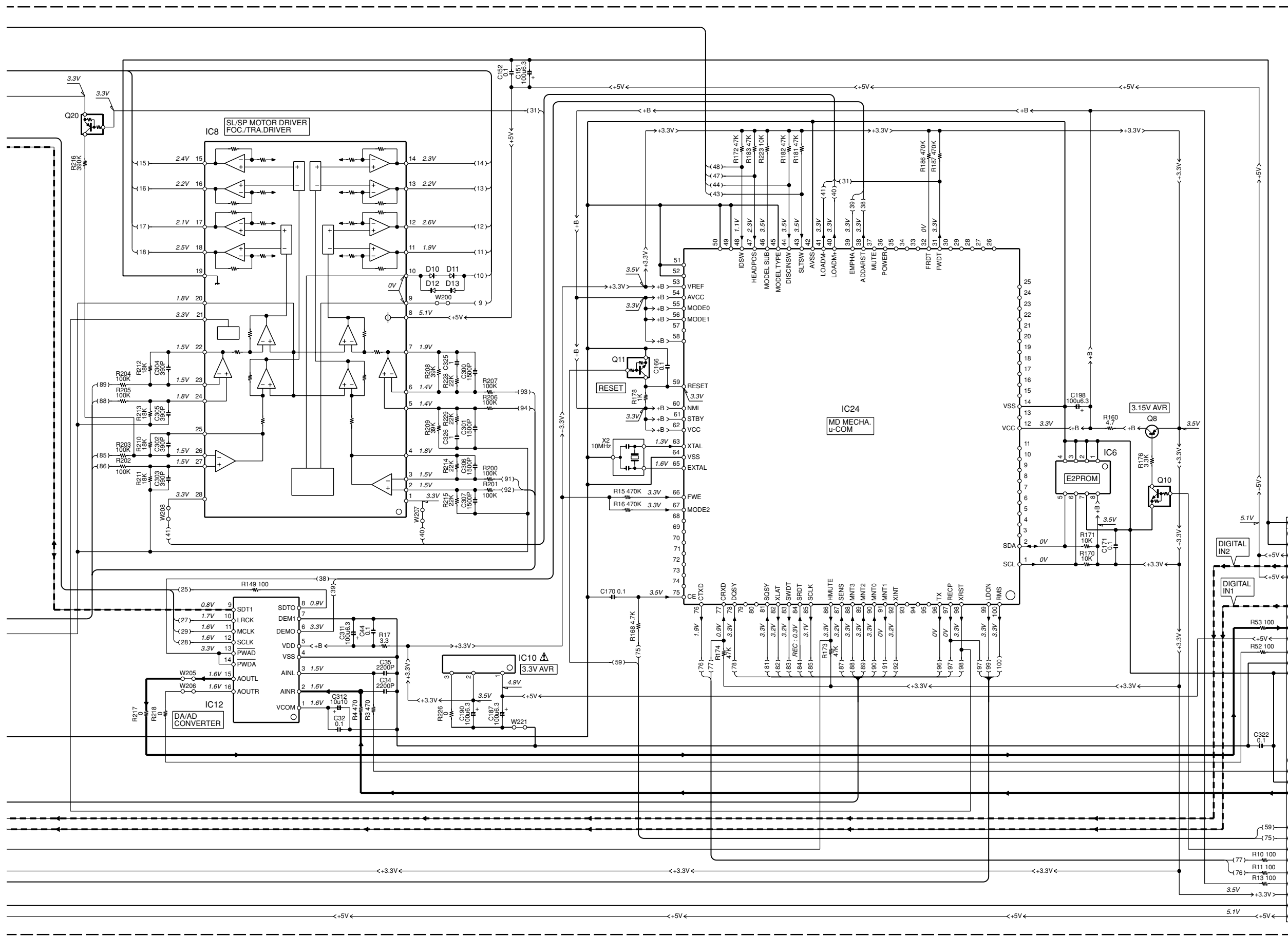


- IC1 : CXA2523AR
- IC2 : CXD2664R
- IC5 : BD7911FV
- IC6 : S-24C02BFJ-TB
- IC7 : HM51W4400BT-7 or MN41V4400TT-08 or LC32S4400T-10 or MN41V4400SJ-08
- IC8 : BA5984FP
- IC10 : L1087MPX-3.3
- IC12 : AK4550VT
- IC24 : HD6432227N08FA
- Q1 : FMW1
- Q2,3 : DTA144EUA
- Q4,5 : DTC114YUA
- Q6,8 : 2SA1576A(R,S)
- Q7 : 2SB798-DL
- Q10,11 : DTC124EUA
- Q20 : DTA124EUA
- D1,2 : EC10QS06
- D10-13 : 1SR154-400
- D101 : MA111

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

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

The DC voltage is an actual reading measured with a high impedance type voltmeter. 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.



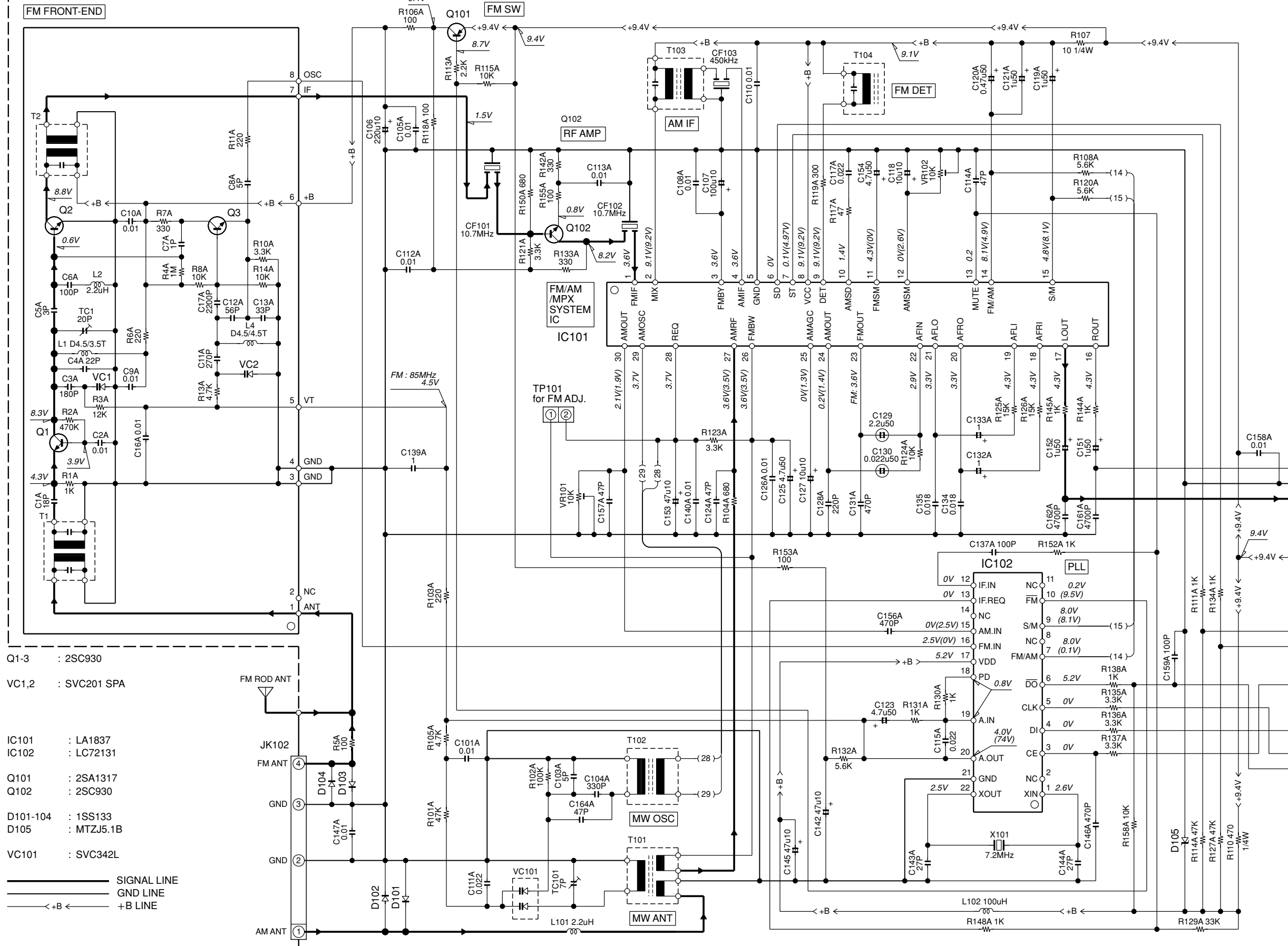
MDX-01/02(M) (1/4)

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Y39-3890-20

MDX-01/02

KENWOOD



- Q1-3 : 2SC930
- VC1,2 : SVC201 SPA
- IC101 : LA1837
- IC102 : LC72131
- Q101 : 2SA1317
- Q102 : 2SC930
- D101-104 : 1SS133
- D105 : MTZJ5.1B
- VC101 : SVC342L

— SIGNAL LINE
 — GND LINE
 <+B < +B LINE

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

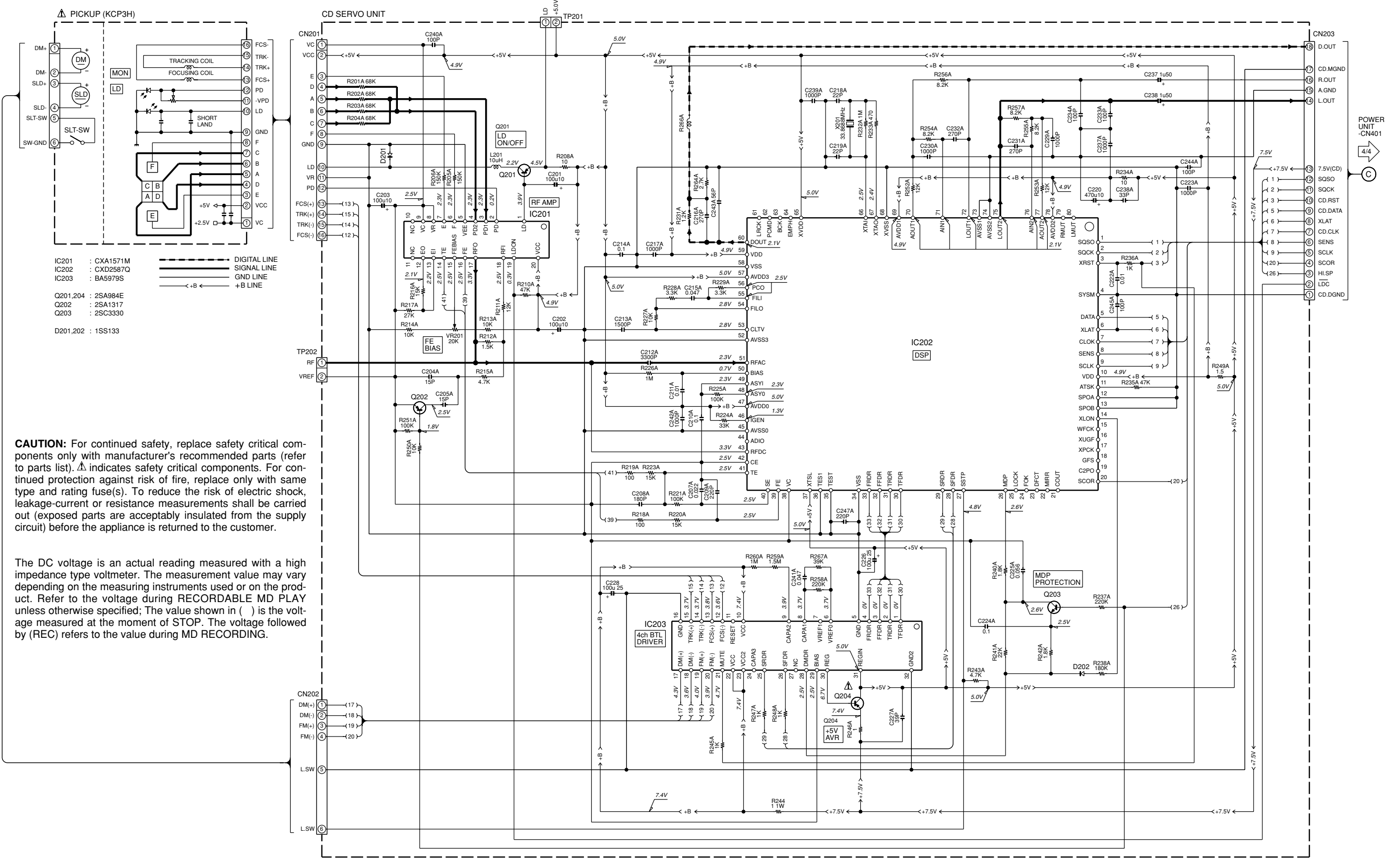
MDX-01/02 (2/4)

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

Y39-3890-20

MDX-01/02
KENWOOD



- IC201 : CXA1571M
- IC202 : CXD2587Q
- IC203 : BA5979S
- Q201,204 : 2SA984E
- Q202 : 2SA1317
- Q203 : 2SC3330
- D201,202 : 1SS133

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

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

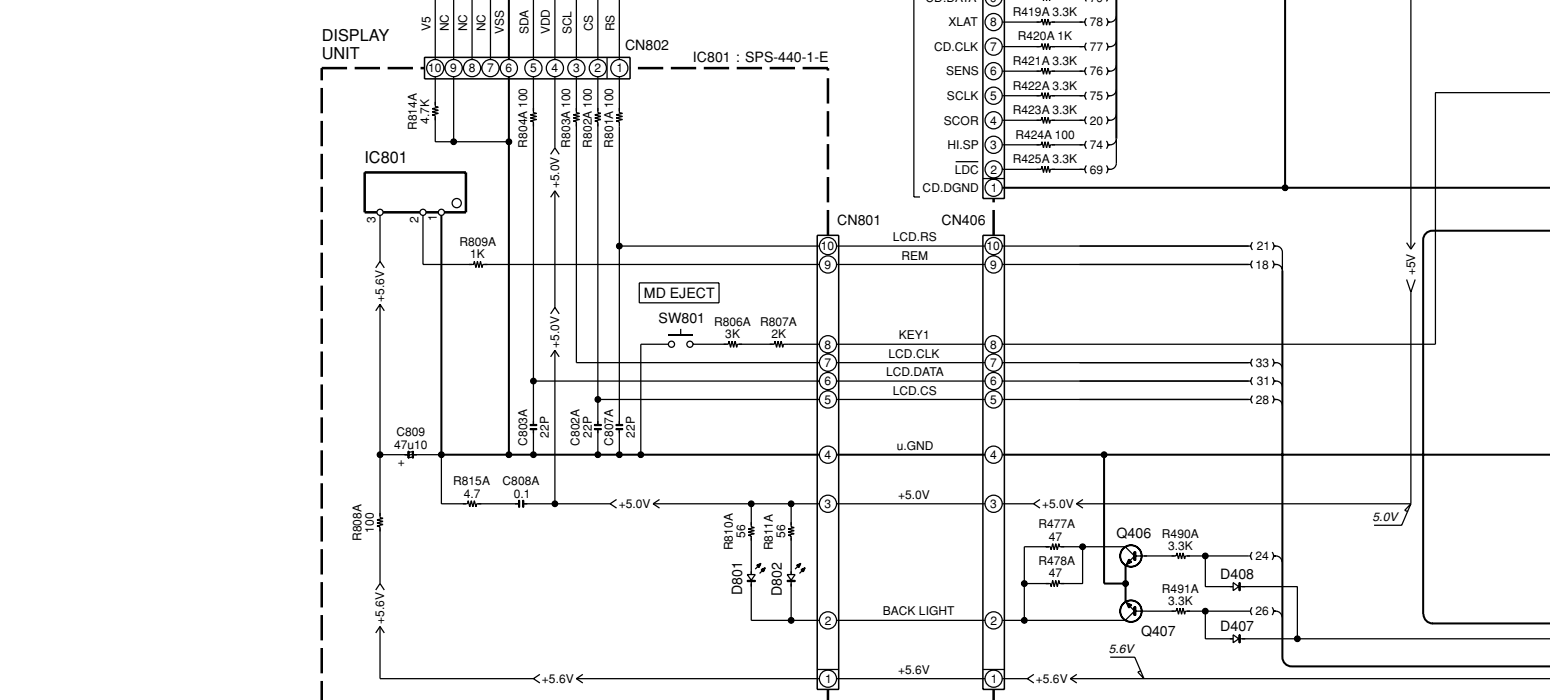
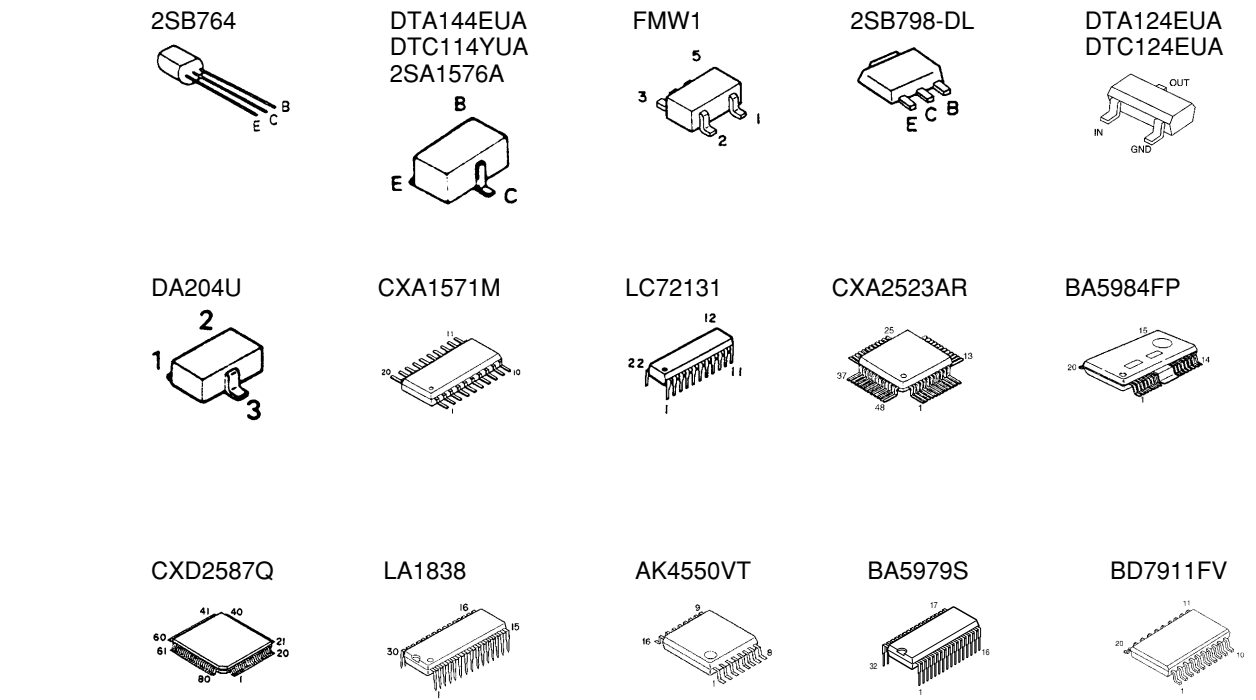
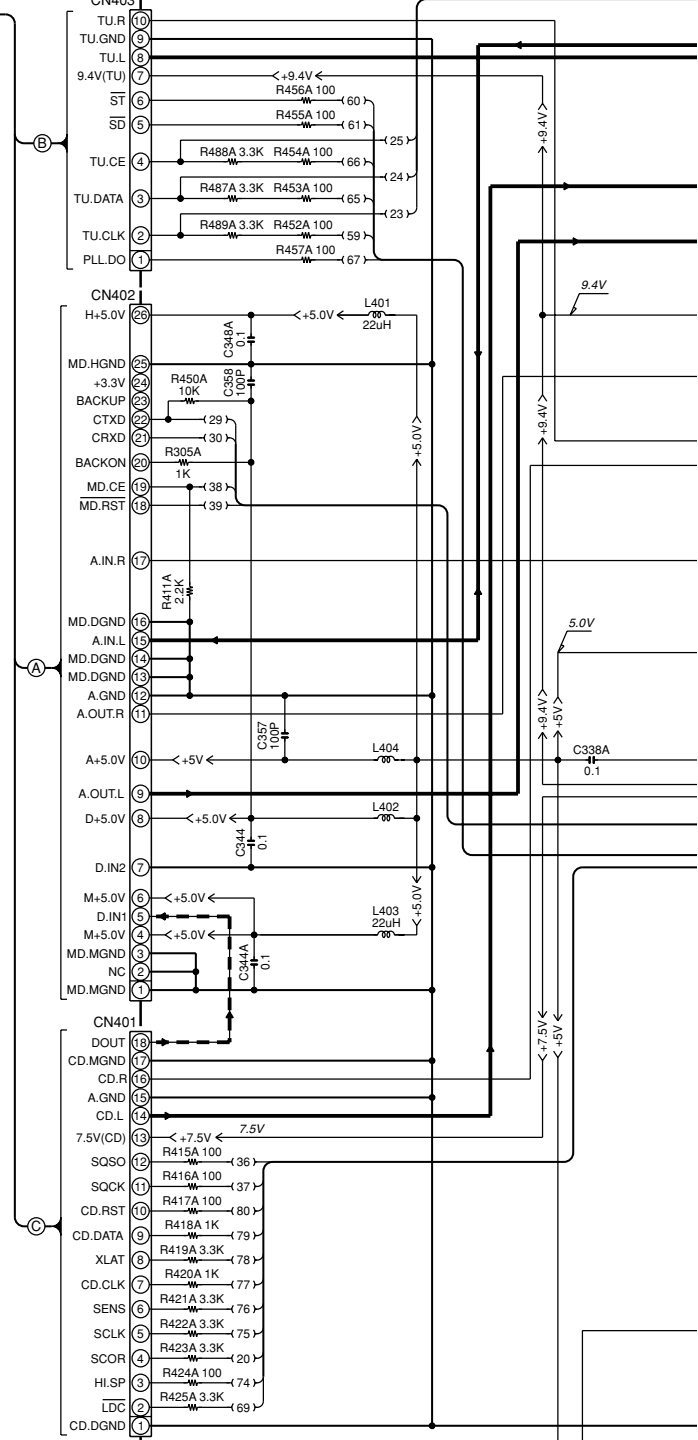
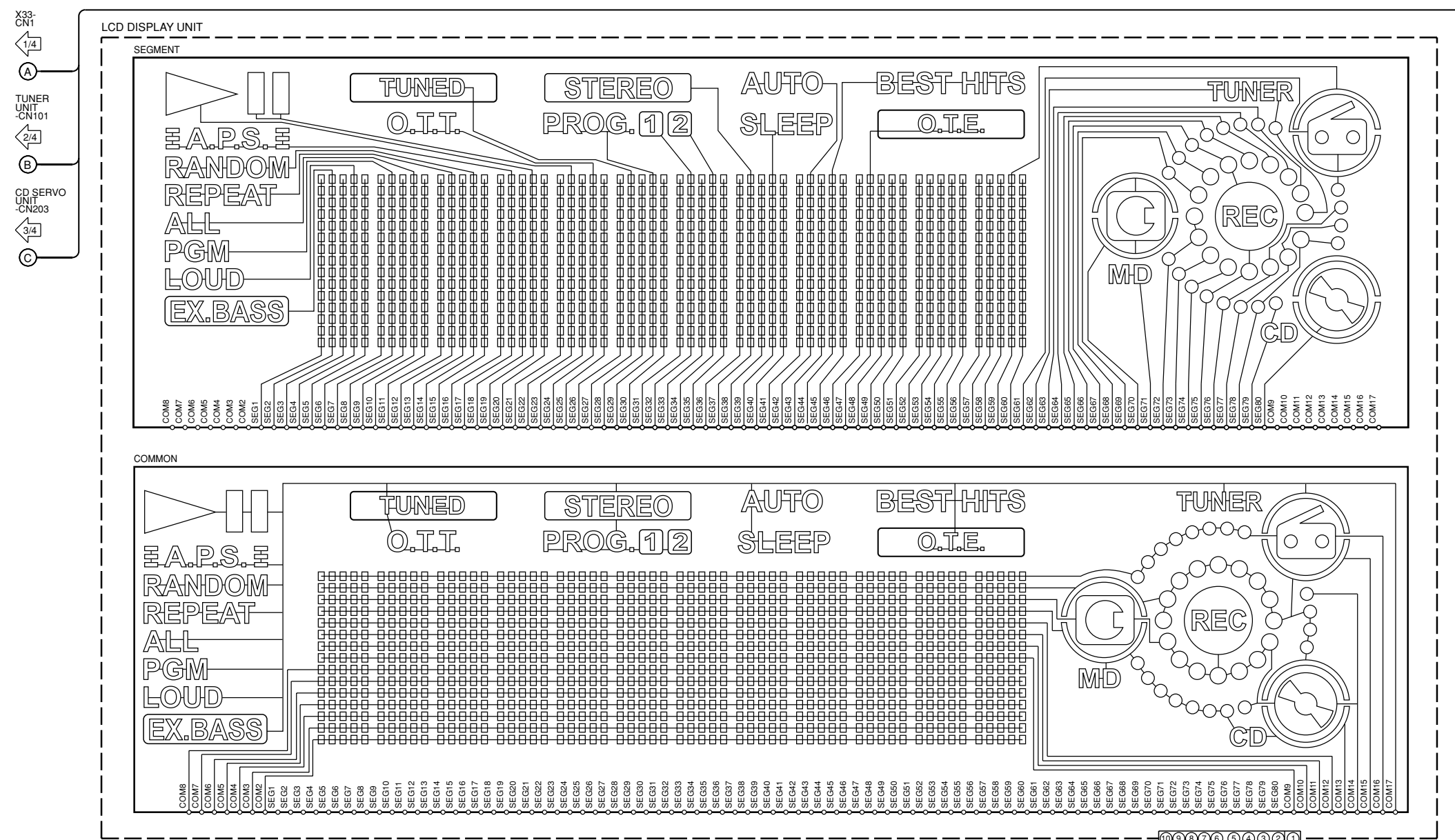
The DC voltage is an actual reading measured with a high impedance type voltmeter. The measurement value may vary depending on the measuring instruments used or on the product. Refer to the voltage during RECORDABLE MD PLAY unless otherwise specified; The value shown in () is the voltage measured at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

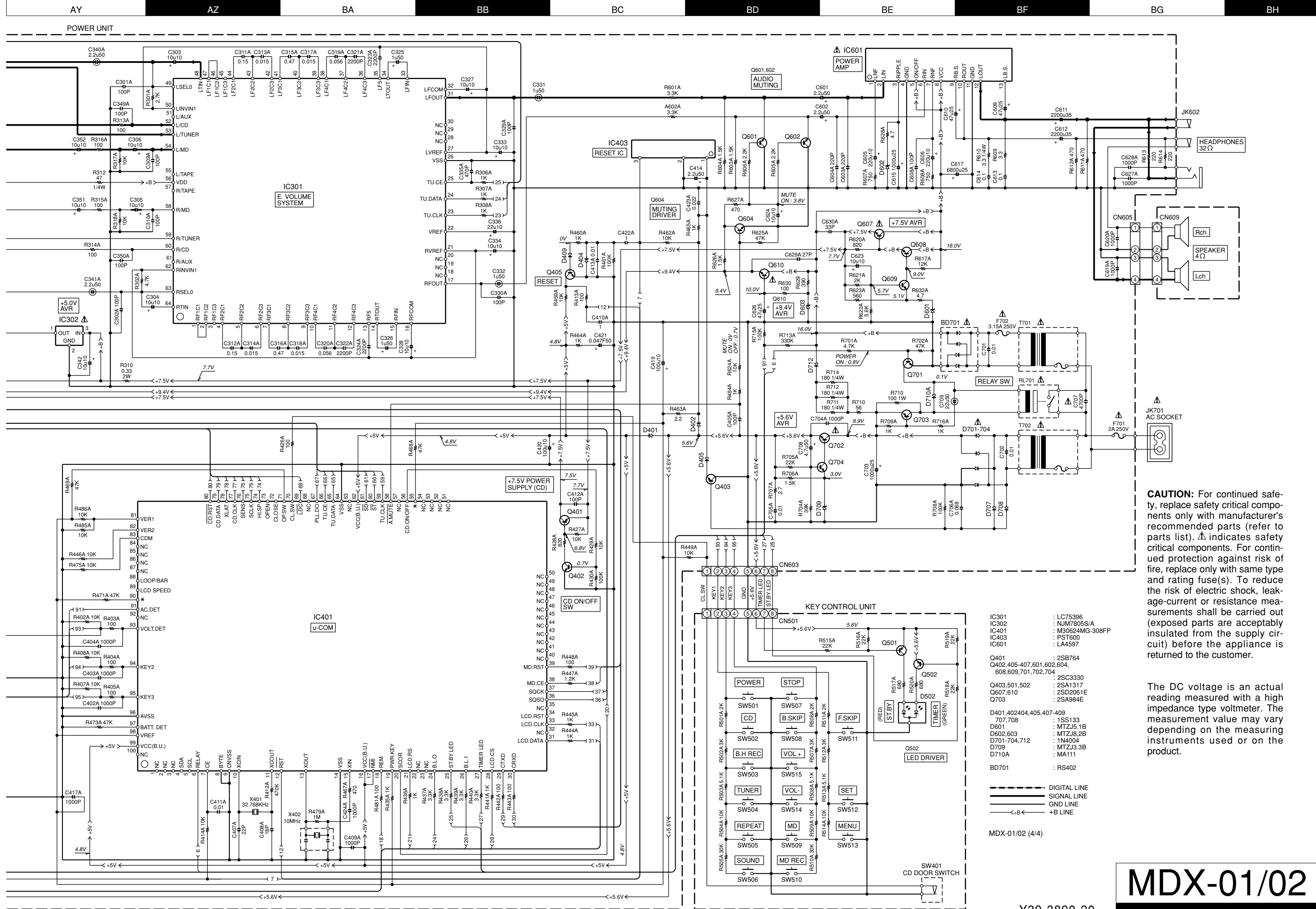
MDX-01/02 (3/4)

MDX-01/02

Y39-3890-20

KENWOOD





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

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

IC301	: LC75396
IC302	: NJM7805S/A
IC401	: M30624MG-308FP
IC403	: PST600
IC601	: LA4597
Q401	: 2SB764
Q402,405-407,601,602,604,608,609,701,702,704	: 2SC3330
Q403,501,502	: 2SA1317
Q607,610	: 2SD2061E
Q703	: 2SA984E
D401,402,404,405,407-409	: 1SS133
D601	: MTZJ5.1B
D502,603	: MTZJ6.2B
D701-704,712	: 1N4004
D709	: MTZJ3.3B
D710A	: MA111
BD701	: RS402

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

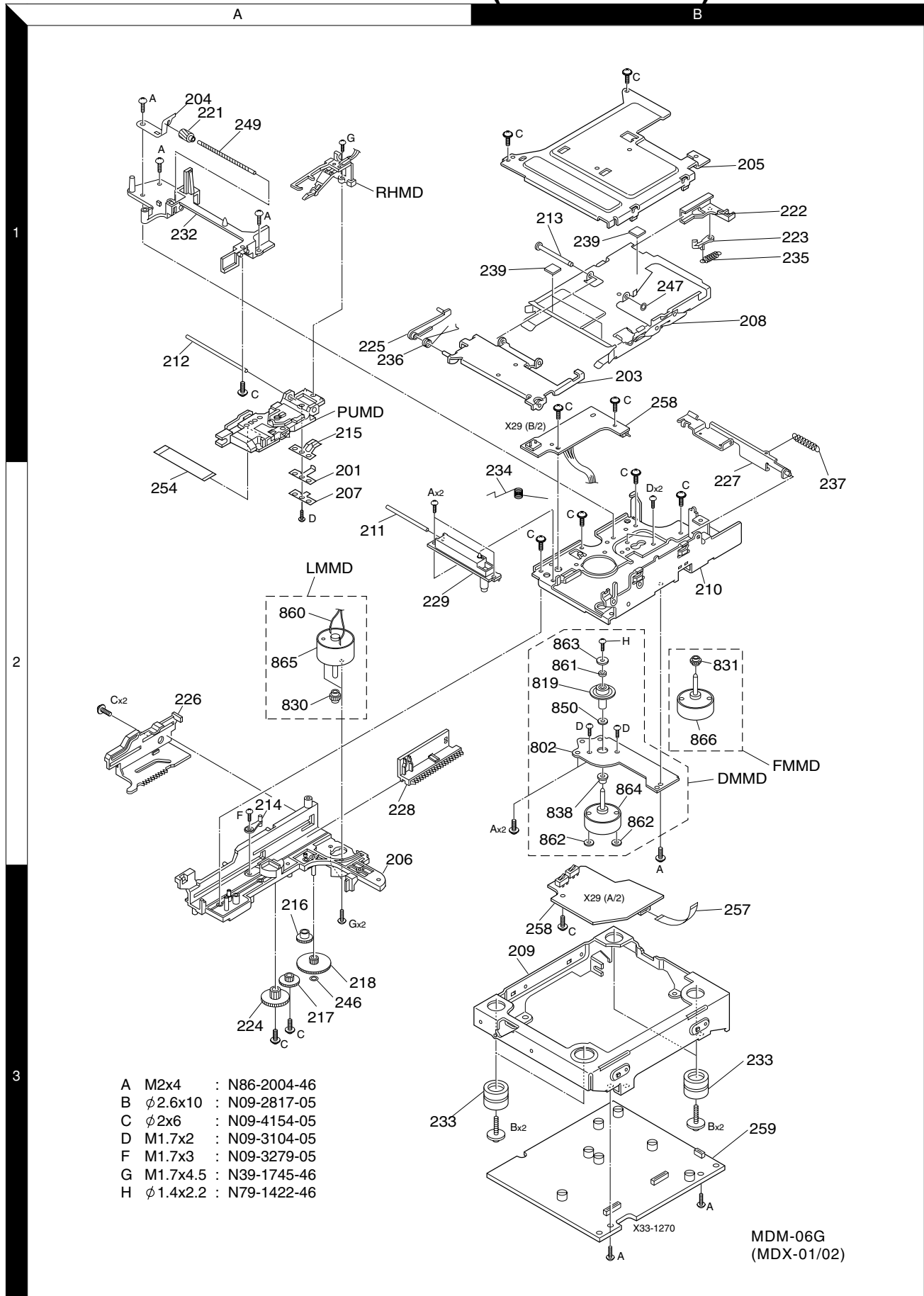
MDX-01/02 (4/4)

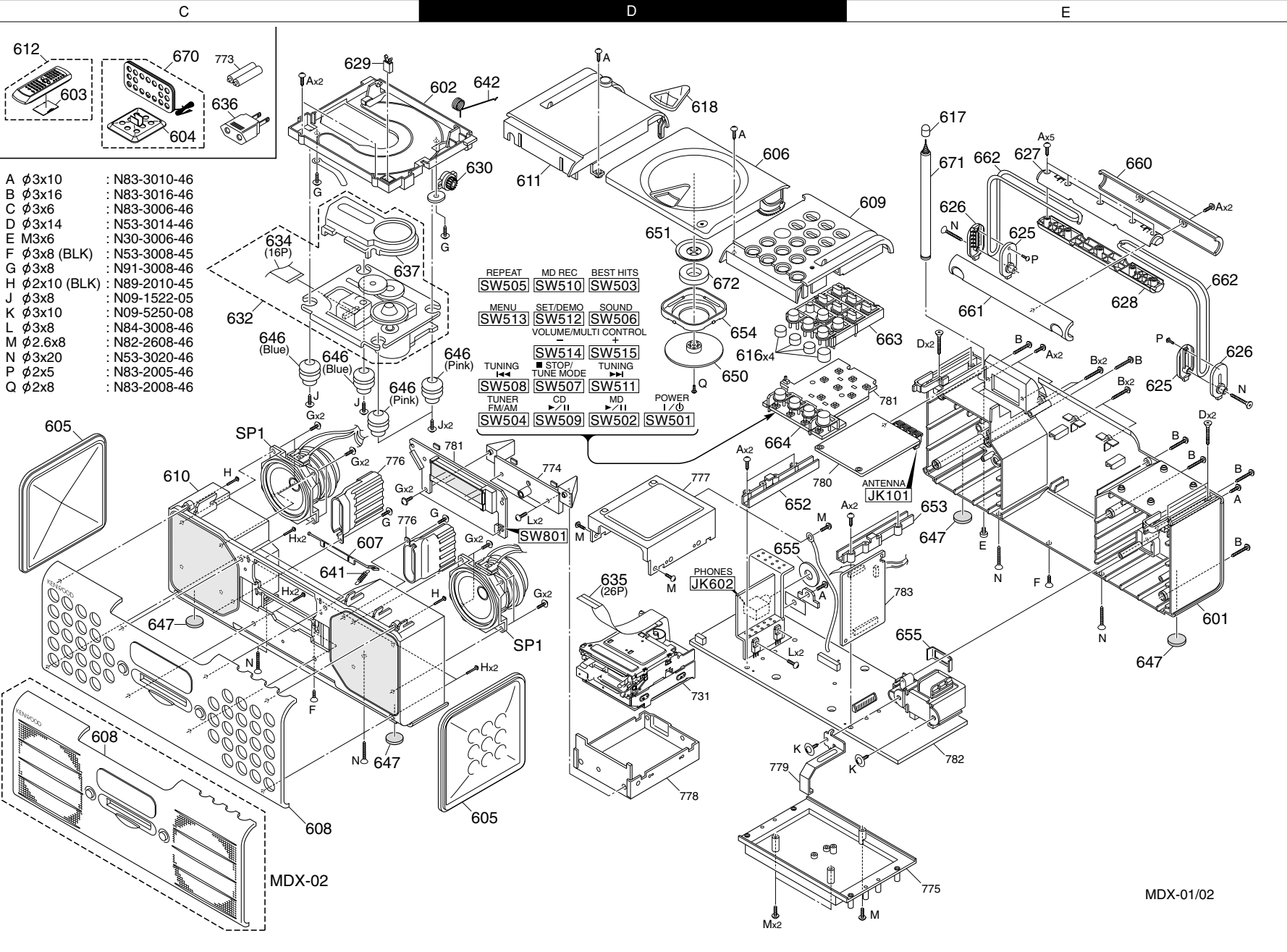
MDX-01/02

Y39-3890-20

KENWOOD

EXPLODED VIEW (MECHANISM)





- A ϕ 3x10 : N83-3010-46
- B ϕ 3x16 : N83-3016-46
- C ϕ 3x6 : N83-3006-46
- D ϕ 3x14 : N53-3014-46
- E M3x6 : N30-3006-46
- F ϕ 3x8 (BLK) : N53-3008-45
- G ϕ 3x8 : N91-3008-46
- H ϕ 2x10 (BLK) : N89-2010-45
- J ϕ 3x8 : N09-1522-05
- K ϕ 3x10 : N09-5250-08
- L ϕ 3x8 : N84-3008-46
- M ϕ 2.6x8 : N82-2608-46
- N ϕ 3x20 : N53-3020-46
- P ϕ 2x5 : N83-2005-46
- Q ϕ 2x8 : N83-2008-46

REPEAT	MD REC	BEST HITS
SW505	SW510	SW503
MENU	SET/DEMO	SOUND
SW513	SW512	SW506
VOLUME/MULTI CONTROL		
TUNING	STOP	TUNING
SW514	SW515	
TUNE MODE	TUNING	
SW511		
TUNER	CD	MD
FM/AM	11	11
SW504	SW509	SW502
		SW501

28
Parts with exploded numbers larger than 700 are not supplied.

* New Parts

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

①

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
MDX-01/02 S:SILVER, D:ORANGE, H:GREY, L:BLUE, R:RED						
601	2E	*	A02-2987-08	REAR CABINET	S	
601	2E	*	A02-2988-08	REAR CABINET	DHLR	
602	1D	*	A02-2991-08	BRACKET	S	
602	1D	*	A02-2992-08	BRACKET	DHLR	
603	1C	*	A09-1191-08	BATTERY COVER		
604	1C	*	A09-1201-08	ANT STAND	S	
605	1C,2D	*	A50-1384-08	SIDE PLATE	L	
605	1C,2D	*	A50-1386-08	SIDE PLATE	S	
605	1C,2D	*	A50-1387-08	SIDE PLATE	H	
605	1C,2D	*	A50-1389-08	SIDE PLATE	D	
605	1C,2D	*	A50-1390-08	SIDE PLATE	R	
606	1D	*	A52-0914-08	DOOR	DHLR	
606	1D	*	A52-0915-08	DOOR	S	
607	2C	*	A52-0918-08	MD DOOR		
608	2C	*	A60-1942-08	F CAB(OUT)ASSY	L	
608	2C	*	A60-1943-08	F CAB(OUT)ASSY	R	
608	2C	*	A60-1944-08	F CAB(OUT)ASSY	D	
608	2C	*	A60-1946-08	F CAB(OUT)ASSY	H	
608	2C	*	A60-1947-08	F CAB(OUT)ASSY	S	
609	1E	*	A60-2059-08	TOP PLT R ASSY	DHLR	
609	1E	*	A60-2060-08	TOP PLT R ASSY	S	
610	1C	*	A60-1954-08	F CAB ASSY	L	
610	1C	*	A60-1955-08	F CAB ASSY	R	
610	1C	*	A60-1958-08	F CAB ASSY	H	
610	1C	*	A60-1979-08	F CAB	S	
611	1D	*	A60-1969-08	TOP PANEL L	S	
611	1D	*	A60-1970-08	TOP PANEL L	DHLR	
612	1C	*	A70-1440-08	REMOTE CONTROL	L	
612	1C	*	A70-1441-08	REMOTE CONTROL	R	
612	1C	*	A70-1442-08	REMOTE CONTROL	S	
616	1D	*	B09-0277-08	BUTTON SET CAP	S	
617	1E	*	B09-0280-08	ANT CAP	L	
617	1E	*	B09-0281-08	ANT CAP	S	
617	1E	*	B09-0282-08	ANT CAP	H	
617	1E	*	B09-0284-08	ANT CAP	D	
617	1E	*	B09-0285-08	ANT CAP	R	
618	1D	*	B12-0408-08	DOOR LENS	L	
618	1D	*	B12-0409-08	DOOR LENS	R	
618	1D	*	B12-0410-08	DOOR LENS	D	
618	1D	*	B12-0412-08	DOOR LENS	H	
618	1D	*	B12-0412-08	DOOR LENS	S	
618	1D	*	B12-0413-08	DOOR LENS	S	
625	1E	*	D22-0069-08	HANDLE HINGE(IN)		
626	1E	*	D22-0070-08	HANDLE HINGE(OUT)		
627	1E	*	D22-0071-08	HANDEL IN A		
628	1E	*	D22-0072-08	HANDEL IN B		
629	1C	*	D32-0368-08	CD LOCKER		
630	1D	*	D39-0345-08	DAMPER		
632	1C	*	D40-1660-05	CD (KCTB6H)		
634	1C	*	E40-8733-08	16P FCC CNNCT		
635	2D	*	E40-8734-08	26P FCC CNNCT		
636	1C	*	E03-0115-05	AC ADAPTER		
637	1C	*	F07-1688-08	CD COVER		
641	2C	*	G01-4244-08	MD SPRING		

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

* New Parts

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②

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
642	2D	*	G01-4245-08	DOOR SPRING		
645	1C	*	G11-2785-08	CUSHION(BLUE)		
646	1C,1D	*	G11-2786-08	CUSHION(PINK)		
647	2C,2E	*	G13-2506-08	RUBBER FOOT		
650	1D	*	J11-0850-08	CD MGNT CVR,BTM		
651	1D	*	J19-6023-08	CD MGNT CVR, TOP		
652	2D	*	J19-6156-08	PCB HOLDER L		
653	2E	*	J19-6157-08	PCB HOLDER R		
654	1D	*	J19-6158-08	MAGNET HOLDER		
660	1E	*	K01-0134-08	HANDLE(REAR)	L	
660	1E	*	K01-0135-08	HANDLE(REAR)	H	
660	1E	*	K01-0137-08	HANDLE(REAR)	D	
660	1E	*	K01-0138-08	HANDLE(REAR)	R	
660	1E	*	K01-0140-08	HANDLE(REAR)	S	
661	1E	*	K01-0128-08	HANDLE(FRONT)	L	
661	1E	*	K01-0129-08	HANDLE(FRONT)	H	
661	1E	*	K01-0131-08	HANDLE(FRONT)	D	
661	1E	*	K01-0132-08	HANDLE(FRONT)	R	
661	1E	*	K01-0133-08	HANDLE(FRONT)	S	
662	1E	*	K01-0139-08	HANDEL		
663	1E	*	K29-7893-08	KNOB A		
663	1E	*	K29-7895-08	KNOB A		
663	1E	*	K29-7896-08	KNOB A		
663	1E	*	K29-7898-08	KNOB A		
663	1E	*	K29-7899-08	KNOB A		
664	1D	*	K29-7900-08	KNOB B		
670	1C	*	T90-0868-08	AM ANT ASSY		
671	1E	*	T90-0869-08	ROD ANT		
672	1D	*	T99-0624-08	MAGNET(NMB)		
-	-	*	B60-4940-08	INST MANUAL		
-	-	*	H10-7732-08	POLY FOAM FIX L		
-	-	*	H10-7733-08	POLY FOAM FIX R		
-	-	*	H25-1649-08	POLY BAG(ANT)		
-	-	*	H25-1660-08	POLY BAG		
-	-	*	H25-1675-08	POLY BAG		
-	-	*	H25-1676-08	POLY BAG		
-	-	*	H50-4011-08	GIFT BOX		
-	-	*	H50-4012-08	GIFT BOX		
SP1	1C,2D	*	T07-0099-08	SPEAKER		
ELECTRICAL PARTS						
D502		*	B30-2558-08	LED		
LCD801		*	B38-0237-08	LCD		
C1A		*	CC73GCH1H180J	CHIP C	18PF	J
C2A		*	CK73GB1H103K	CHIP C	0.010UF	K
C3A		*	CC73GCH1H181J	CHIP C	180PF	J
C4A		*	CC73GCH1H220J	CHIP C	22PF	J
C5A		*	CC73GCH1H030J	CHIP C	3.0PF	J
C6A		*	CC73GCH1H101J	CHIP C	100PF	J
C7A		*	CC73GCH1H010C	CHIP C	1.0PF	C
C8A		*	CC73GCH1H050J	CHIP C	5.0PF	J
C9A ,10A		*	CK73GB1H103K	CHIP C	0.010UF	K
C11A		*	CC73GCH1H271J	CHIP C	270PF	J
C13A		*	CC73GCH1H330J	CHIP C	33PF	J
C16A		*	CK73GB1H103K	CHIP C	0.010UF	K

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

PARTS LIST

MDX-01/02

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③

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
C17A			CK73GB1H222K	CHIP C	2200PF	K
C101A			CK73GB1H103K	CHIP C	0.010UF	K
C103A			CC73GCH1H050J	CHIP C	5.0PF	J
C104A			CC73GCH1H331J	CHIP C	330PF	J
C105A			CK73GB1H103K	CHIP C	0.010UF	K
C106			CE04CW1A221M	ELECTRO	220UF	10WV
C107			CE04CW1A101M	ELECTRO	100UF	10WV
C108A			CK73GB1H103K	CHIP C	0.010UF	K
C110A			CK73GB1H103K	CHIP C	0.010UF	K
C111A			CK73GB1H223K	CHIP C	0.022UF	K
C112A,13A			CK73GB1H103K	CHIP C	0.010UF	K
C114A			CC73GCH1H470J	CHIP C	47PF	J
C115A			CK73GB1H223K	CHIP C	0.022UF	K
C117A			CK73GB1H223K	CHIP C	0.022UF	K
C118			CE04CW1A100M	ELECTRO	10UF	10WV
C119			CE04CW1H010M	ELECTRO	1.0UF	50WV
C120			CE04CW1HR47M	ELECTRO	0.47UF	50WV
C121			CE04CW1H010M	ELECTRO	1.0UF	50WV
C123			CE04CW1H4R7M	ELECTRO	4.7UF	50WV
C124A			CC73GCH1H470J	CHIP C	47PF	J
C125			CE04CW1H4R7M	ELECTRO	4.7UF	50WV
C126A			CK73GB1H103K	CHIP C	0.010UF	K
C127			CE04CW1A100M	ELECTRO	10UF	10WV
C128A			CC73GCH1H221J	CHIP C	220PF	J
C129			CE04BP1H2R2M	NP-ELEC	2.2UF	50WV
C130A			CK73GB1H223K	CHIP C	0.022UF	K
C131A			CC73GCH1H471J	CHIP C	470PF	J
C132,133			CE04CW1H010M	ELECTRO	1.0UF	50WV
C134,135			CQ93FM1H183K	MYLAR	0.018UF	K
C134A			CK73GB1H103K	CHIP C	0.010UF	K
C136A			CK73GB1H103K	CHIP C	0.010UF	K
C137A			CC73GCH1H101J	CHIP C	100PF	J
C139A			CK73FB1H105Z	CHIP C	1.0UF	Z
C140A			CK73GB1H103K	CHIP C	0.010UF	K
C142			CE04CW1A470M	ELECTRO	47UF	10WV
C143A,44A			CC73GCH1H270J	CHIP C	27PF	J
C145			CE04CW1A470M	ELECTRO	47UF	10WV
C146A			CC73GCH1H471J	CHIP C	470PF	J
C147A			CK73GB1H103K	CHIP C	0.010UF	K
C151,152			CE04CW1H010M	ELECTRO	1.0UF	50WV
C153			CE04CW1A470M	ELECTRO	47UF	10WV
C154			CE04CW1H4R7M	ELECTRO	4.7UF	50WV
C156A			CC73GCH1H471J	CHIP C	470PF	J
C157A			CC73GCH1H470J	CHIP C	47PF	J
C158A			CK73GB1H103K	CHIP C	0.010UF	K
C159A			CC73GCH1H101J	CHIP C	100PF	J
C161A,62A			CK73GB1H472K	CHIP C	4700PF	K
C164A			CC73GCH1H470J	CHIP C	47PF	J
C201-203			CE04CW1A101M	ELECTRO	100UF	10WV
C204A,05A			CC73GCH1H150J	CHIP C	15PF	J
C207A			CK73GB1H223K	CHIP C	0.022UF	K
C208A			CC73GCH1H181J	CHIP C	180PF	J
C209A			CC73GCH1H221J	CHIP C	220PF	J
C210A			CK73GB1E104Z	CHIP C	0.10UF	Z
C211A			CK73GB1H103K	CHIP C	0.010UF	K

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Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
C212A			CK73GB1H332J	CHIP C	3300PF	J
C213A			CK73GB1H152K	CHIP C	1500PF	K
C214A			CK73GB1E104Z	CHIP C	0.10UF	Z
C215A			CK73GB1H473K	CHIP C	0.047UF	K
C216A			CC73GCH1H271J	CHIP C	270PF	J
C217A			CK73GB1H102K	CHIP C	1000PF	K
C218A,19A			CC73GCH1H220J	CHIP C	22PF	J
C220			CE04CW1A471M	ELECTRO	470UF	10WV
C222A			CK73GB1H103K	CHIP C	0.010UF	K
C223A			CK73GB1H102K	CHIP C	1000PF	K
C224A			CK73GB1E104Z	CHIP C	0.10UF	Z
C225A			CK73GB1H563K	CHIP C	0.056UF	K
C226			CE04CW1E101M	ELECTRO	100UF	25WV
C227A			CC73GCH1H390J	CHIP C	39PF	J
C228			CE04CW1E471M	ELECTRO	470UF	25WV
C229A,30A			CK73GB1H102K	CHIP C	1000PF	K
C231A,32A			CC73GCH1H271J	CHIP C	270PF	J
C233A,34A			CC73GCH1H101J	CHIP C	100PF	J
C235			CE04CW1A101M	ELECTRO	100UF	10WV
C237,38			CE04CW1H010M	ELECTRO	1.0UF	50WV
C237A			CK73GB1H102K	CHIP C	1000PF	K
C238A			CC73GCH1H330J	CHIP C	33PF	J
C239A			CK73GB1H102K	CHIP C	1000PF	K
C240A			CC73GCH1H101J	CHIP C	100PF	J
C241A			CK73GB1H473K	CHIP C	0.047UF	K
C242A			CK73GB1H102K	CHIP C	1000PF	K
C243A			CC73GCH1H560J	CHIP C	56PF	J
C244A,45A			CC73GCH1H101J	CHIP C	100PF	J
C246A			CK73GB1H331J	CHIP C	330PF	J
C247A			CK73GB1H223K	CHIP C	0.022UF	K
C301A,02A			CC73GCH1H101J	CHIP C	100PF	J
C303-306			CE04CW1A100M	ELECTRO	10UF	10WV
C309A,10A			CC73GCH1H101J	CHIP C	100PF	J
C311A,12A			CK73FB1H154K	CHIP C	0.15UF	K
C313A,14A			CK73GB1E153K	CHIP C	0.015UF	K
C315A,16A			CK73FB1H474K	CHIP C	0.47UF	K
C317A,18A			CK73GB1E153K	CHIP C	0.015UF	K
C319A,20A			CK73GB1H563K	CHIP C	0.056UF	K
C321A-24A			CK73GB1H222K	CHIP C	2200PF	K
C325,326			CE04CW1H010M	ELECTRO	1.0UF	50WV
C327,328			CE04CW1A100M	ELECTRO	10UF	10WV
C329A,30A			CC73GCH1H101J	CHIP C	100PF	J
C331,332			CE04BP1H010M	NP-ELEC	1.0UF	50WV
C333,334			CE04CW1A100M	ELECTRO	10UF	10WV
C335A			CC73GCH1H471J	CHIP C	470PF	J
C336			CE04CW1A220M	ELECTRO	22UF	10WV
C337			CE04CW1A101M	ELECTRO	100UF	10WV
C338A			CK73GB1E104Z	CHIP C	0.10UF	Z
C339A			CK73FB1H474K	CHIP C	0.47UF	K
C340,341			CE04BP1H2R2M	NP-ELEC	2.2UF	50WV
C342			CE04CW1E100M	ELECTRO	10UF	25WV
C344			CK45FB1H104K	CERAMIC	0.10UF	K
C344A			CK73GB1E104Z	CHIP C	0.10UF	Z
C345A			CC73GCH1H470J	CHIP C	47PF	J
C346A			CK73GB1E104Z	CHIP C	0.10UF	Z

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5

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
C347,48 C348A C349A,50A C351,352 C357,58			CE04CW1A471M CK73GB1E104Z CC73GCH1H101J CE04CW1A100M CC45FCH1H101J	ELECTRO CHIP C CHIP C ELECTRO CERAMIC	470UF 0.10UF 100PF 10UF 100PF	10WV Z J 10WV J
C402A-04A C405A C407A C408A C409A			CK73GB1H102K CC73GCH1H101J CC73GCH1H220J CC73GCH1H180J CK73GB1H102K	CHIP C CHIP C CHIP C CHIP C CHIP C	1000PF 100PF 22PF 18PF 1000PF	K J J J K
C410A C411A C412A C413A C414			CK73FB1H105Z CK73GB1H103K CC73GCH1H101J CK73GB1H103K CE04CW1H2R2M	CHIP C CHIP C CHIP C CHIP C ELECTRO	1.0UF 0.010UF 100PF 0.010UF 2.2UF	Z K J K 50WV
C417A C419,420 C421 C422A C423A		*	CK73GB1H102K CE04CW1A101M C90-3955-08 CK73FB1H105Z CK73GB1H223K	CHIP C ELECTRO ELECTRO CHIP C CHIP C	1000PF 100UF 0.047F 1.0UF 0.022UF	K 10WV 5.5WV Z K
C424A C601,602 C603A,04A C605,606 C609,610			CK73GB1H102K CE04CW1H2R2M CC73GCH1H221J CE04CW1A221M CE04CW1E470M	CHIP C ELECTRO CHIP C ELECTRO ELECTRO	1000PF 2.2UF 220PF 220UF 47UF	K 50WV J 10WV 25WV
C611,612 C613,614 C615 C617 C619A,20A			CE04CW1V222M CK45FB1H104M CE04CW1E102M CE04KW1E682M CK73GB1H102K	ELECTRO CERAMIC ELECTRO ELECTRO CHIP C	2200UF 0.10UF 1000UF 6800UF 1000PF	35WV M 25WV 25WV K
C622 C623,624 C626 C627A,28A C629A			CE04CW1E470M CE04CW1A100M CE04CW1E470M CK73GB1H102K CC73GCH1H270J	ELECTRO ELECTRO ELECTRO CHIP C CHIP C	47UF 10UF 47UF 1000PF 27PF	25WV 10WV 25WV K J
C630A C631A C632A C701,702 C703			CC73GCH1H330J CC73GCH1H470J CC73GCH1H560J CK45FB1H103M CE04CW1E102M	CHIP C CHIP C CHIP C CERAMIC ELECTRO	33PF 47PF 56PF 0.010UF 1000UF	J J J M 25WV
C704A C705A C706A C707 C708			CK73GB1H102K CK73GB1H103K CK73GB1H683K C90-3862-08 CE04CW1H4R7M	CHIP C CHIP C CHIP C CERAMIC ELECTRO	1000PF 0.010UF 0.068UF 0.0047UF 4.7UF	K K K 250V 50WV
C709 C802A,03A C807A C808A C809			CE04BP1E220M CC73GCH1H220J CC73GCH1H220J CK73GB1E104Z CE04CW1A470M	NP-ELEC CHIP C CHIP C CHIP C ELECTRO	22UF 22PF 22PF 0.10UF 47UF	25WV J J Z 10WV
TC1 TC101 VC1,2 VC101		*	C05-0303-05 C05-0301-05 SVC201SPA SVC342L	トリアポPF トリアPF ハリキヤツ ハリキヤツ	014-10200-001 014-10070-001 004-00201-500	

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6

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
CN201 CN203 CN402 JK101 JK602		*	E40-8445-08 E40-8445-08 E40-8732-08 E70-0114-08 E11-0398-08	16P FFC CONNEC 18P HEAD 26P FFC CONNEC ANT TERMINAL STEREO JACK	025-20016-202 025-20018-302 025-20026-201 046-10400-010 021-23507-100	
Δ JK701		*	E03-0375-08	AC SOCKET	024-00020-004	
Δ F701 Δ F702			F50-0150-08 F50-0151-08	FUSE .2A FUSE .315A	050-05020-206 050-05020-317	
CF101,102 CF103 J112 J114 L1		*	L72-0632-08 L72-0633-08 L33-1628-08 L33-1628-08 L31-0653-08	CRAMIC FL,10.7 CERAMIC F,450 INDUCTOR INDUCTOR FM COIL	028-10700-028 028-00450-004 015-70010-007 015-70010-007 017-07035-450	
L2 L4 L101 L102 L201		*	L33-1612-08 L31-0654-08 L33-1612-08 L33-1609-08 L33-1610-08	INDUCTOR FM COIL INDUCTOR INDUCTOR INDUCTOR	015-70022-107 017-07025-450 015-70022-107 015-70101-007 015-70100-007	
L401 L402 L403 L404 T1		*	L33-1611-08 L92-0522-08 L33-1611-08 L92-0522-08 L31-0660-08	INDUCTOR FERRITE BEAD INDUCTOR FERRITE BEAD FM BPF	015-70220-006 027-00000-006 015-70220-006 027-00000-006 028-88108-000	
T2 T101 T102 T103 T701		*	L30-0976-08 L31-0640-08 L32-1018-08 L30-0977-08 L07-2994-08	IFT AM ANT COIL OSC COIL IFT POWER TRANS	016-25194-032 016-21032-104 016-20360-023 016-21198-101 018-50006-572	
Δ T702 X101 X201 X401 X402		*	L07-2993-08 L77-2316-08 L77-2317-08 L77-2264-08 L78-0705-08	POWER TRANS CRYSTAL7.2MHZ CRYSTAL,33.8688,052-33868-004 CRYSTAL,32.768 CRYSTAL	018-50002-572 052-07200-002 052-33868-004 052-32768-000 052-01000-100	
R1A R2A R3A R4A R5A			RK73GB1J102J RK73GB1J474J RK73GB1J123J RK73GB1J105J RK73GB1J101J	CHIP R CHIP R CHIP R CHIP R CHIP R	1.0K 470K 12K 1.0M 100	J J J J J 1/16W 1/16W 1/16W 1/16W 1/16W
R6A R7A R8A R10A R11A			RK73GB1J221J RK73GB1J331J RK73GB1J103J RK73GB1J332J RK73GB1J221J	CHIP R CHIP R CHIP R CHIP R CHIP R	220 330 10K 3.3K 220	J J J J J 1/16W 1/16W 1/16W 1/16W 1/16W
R13A R14A R102A R103A R104A			RK73GB1J472J RK73GB1J103J RK73GB1J104J RK73GB1J221J RK73GB1J681J	CHIP R CHIP R CHIP R CHIP R CHIP R	4.7K 10K 100K 220 680	J J J J J 1/16W 1/16W 1/16W 1/16W 1/16W
R105A R106A R107 R108A R110A			RK73GB1J472J RK73GB1J101J RD14GB2E100J RK73GB1J562J RK73GB1J473J	CHIP R CHIP R FL-PROOF RD CHIP R CHIP R	4.7K 100 10 5.6K 47K	J J J J J 1/16W 1/16W 1/4W 1/16W 1/16W

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7

Ref. No	Add- ress	New Parts	Parts No.	Description	Desti- nation	Re- marks
R111A			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R113A			RK73GB1J222J	CHIP R 2.2K J 1/16W		
R114A			RK73GB1J473J	CHIP R 47K J 1/16W		
R115A			RK73GB1J103J	CHIP R 10K J 1/16W		
R117A			RK73GB1J470J	CHIP R 47 J 1/16W		
R118A			RK73GB1J101J	CHIP R 100 J 1/16W		
R119A			RK73GB1J301J	CHIP R 300 J 1/16W		
R120A			RK73GB1J562J	CHIP R 5.6K J 1/16W		
R121A			RK73GB1J332J	CHIP R 3.3K J 1/16W		
R123A			RK73GB1J332J	CHIP R 3.3K J 1/16W		
R124A			RK73GB1J103J	CHIP R 10K J 1/16W		
R125A,26A			RK73GB1J153J	CHIP R 15K J 1/16W		
R127A			RK73GB1J473J	CHIP R 47K J 1/16W		
R129A			RK73GB1J333J	CHIP R 33K J 1/16W		
R130A,31A			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R132A			RK73GB1J562J	CHIP R 5.6K J 1/16W		
R133A			RK73GB1J331J	CHIP R 330 J 1/16W		
R134A			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R135A-37A			RK73GB1J332J	CHIP R 3.3K J 1/16W		
R138A			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R142A			RK73GB1J331J	CHIP R 330 J 1/16W		
R144A,45A			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R148A			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R149A			RK73GB1J332J	CHIP R 3.3K J 1/16W		
R150A			RK73GB1J681J	CHIP R 680 J 1/16W		
R152A			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R153A			RK73GB1J101J	CHIP R 100 J 1/16W		
R155A			RK73GB1J470J	CHIP R 47 J 1/16W		
R158A			RK73GB1J103J	CHIP R 10K J 1/16W		
R159A			RK73GB1J000J	CHIP R 0 J 1/16W		
R201A-04A			RK73GB1J683J	CHIP R 68K J 1/16W		
R205A,06A			RK73GB1J154J	CHIP R 150K J 1/16W		
R208A			RK73GB1J100J	CHIP R 10 J 1/16W		
R210A			RK73GB1J473J	CHIP R 47K J 1/16W		
R211A			RK73GB1J123J	CHIP R 12K J 1/16W		
R212A			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R213A,14A			RK73GB1J103J	CHIP R 10K J 1/16W		
R215A			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R216A			RK73GB1J153J	CHIP R 15K J 1/16W		
R217A			RK73GB1J273J	CHIP R 27K J 1/16W		
R218A,19A			RK73GB1J101J	CHIP R 100 J 1/16W		
R220A			RK73GB1J153J	CHIP R 15K J 1/16W		
R221A			RK73GB1J104J	CHIP R 100K J 1/16W		
R223A			RK73GB1J153J	CHIP R 15K J 1/16W		
R224A			RK73GB1J333J	CHIP R 33K J 1/16W		
R225A			RK73GB1J104J	CHIP R 100K J 1/16W		
R226A			RK73GB1J105J	CHIP R 1.0M J 1/16W		
R227A			RK73GB1J103J	CHIP R 10K J 1/16W		
R228A,29A			RK73GB1J332J	CHIP R 3.3K J 1/16W		
R230A			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R231A			RK73GB1J122J	CHIP R 1.2K J 1/16W		
R232A			RK73GB1J105J	CHIP R 1.0M J 1/16W		
R233A			RK73GB1J471J	CHIP R 470 J 1/16W		
R234A			RK73GB1J100J	CHIP R 10 J 1/16W		
R235A			RK73GB1J473J	CHIP R 47K J 1/16W		

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8

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R236A			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R237A			RK73GB1J224J	CHIP R 220K J 1/16W		
R238A			RK73GB1J184J	CHIP R 180K J 1/16W		
R239A			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R240A			RK73GB1J182J	CHIP R 1.8K J 1/16W		
R241A			RK73GB1J223J	CHIP R 22K J 1/16W		
R242A			RK73GB1J182J	CHIP R 1.8K J 1/16W		
R243A			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R244		*	R92-1976-08	FUSE R 1 J 1W		
R246A			RK73FB2A010J	CHIP R 1 J 1/10W		
R247A,48A			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R249A			RK73GB1J1R5J	CHIP R 1.5 J 1/16W		
R250A			RK73GB1J103J	CHIP R 10K J 1/16W		
R251A			RK73GB1J104J	CHIP R 100K J 1/16W		
R252A,53A			RK73GB1J123J	CHIP R 12K J 1/16W		
R254A-57A			RK73GB1J822J	CHIP R 8.2K J 1/16W		
R258A			RK73GB1J224J	CHIP R 220K J 1/16W		
R259A			RK73GB1J155J	CHIP R 1.5M J 1/16W		
R260A			RK73GB1J105J	CHIP R 1.0M J 1/16W		
R262,63			RK73GB1J000J	CHIP R 0 J 1/16W		
R264A			RK73GB1J272J	CHIP R 2.7K J 1/16W		
R265A			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R266A			L92-0079-05	CHIP FERRITE BEAD		
R267A			RK73GB1J393J	CHIP R 39K J 1/16W		
R301A,02A			RK73GB1J000J	CHIP R 0 J 1/16W		
R305A-08A		*	RK73GB1J102J	CHIP R 1.0K J 1/16W		
R310			R92-1977-08	FUSE R 0.33 J 2W		
R313A-16A			RK73GB1J101J	CHIP R 100 J 1/16W		
R317A,18A			RK73GB1J103J	CHIP R 10K J 1/16W		
R402A			RK73GB1J103J	CHIP R 10K J 1/16W		
R402B			RK73GB1J000J	CHIP R 0 J 1/16W		
R403A-05A			RK73GB1J101J	CHIP R 100 J 1/16W		
R407A,08A			RK73GB1J103J	CHIP R 10K J 1/16W		
R407B,08B			RK73GB1J000J	CHIP R 0 J 1/16W		
R409A,10A			RK73GB1J473J	CHIP R 47K J 1/16W		
R411A			RK73GB1J222J	CHIP R 2.2K J 1/16W		
R412A			RK73GB1J474J	CHIP R 470K J 1/16W		
R413A			RK73GB1J101J	CHIP R 100 J 1/16W		
R414A			RK73GB1J103J	CHIP R 10K J 1/16W		
R415A-17A			RK73GB1J101J	CHIP R 100 J 1/16W		
R418A			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R419A			RK73GB1J332J	CHIP R 3.3K J 1/16W		
R420A			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R421A-23A			RK73GB1J332J	CHIP R 3.3K J 1/16W		
R424A			RK73GB1J101J	CHIP R 100 J 1/16W		
R425A			RK73GB1J332J	CHIP R 3.3K J 1/16W		
R426A			RK73GB1J101J	CHIP R 100 J 1/16W		
R427A			RK73GB1J103J	CHIP R 10K J 1/16W		
R428A			RK73GB1J821J	CHIP R 820 J 1/16W		
R429A			RK73GB1J103J	CHIP R 10K J 1/16W		
R435A,36A			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R437A-39A			RK73GB1J332J	CHIP R 3.3K J 1/16W		
R440A			RK73GB1J332J	CHIP R 3.3K J 1/16W		
R441A			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R442A,43A			RK73GB1J101J	CHIP R 100 J 1/16W		

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R444A,45A			RK73GB1J102J	CHIP R 1.0K	J	1/16W
R446A			RK73GB1J103J	CHIP R 10K	J	1/16W
R447A			RK73GB1J122J	CHIP R 1.2K	J	1/16W
R448A			RK73GB1J101J	CHIP R 100	J	1/16W
R449A,50A			RK73GB1J103J	CHIP R 10K	J	1/16W
R452A-57A			RK73GB1J101J	CHIP R 100	J	1/16W
R458A,59A			RK73GB1J103J	CHIP R 10K	J	1/16W
R460A			RK73GB1J102J	CHIP R 1.0K	J	1/16W
R461A			RK73GB1J104J	CHIP R 100K	J	1/16W
R462A			RK73GB1J103J	CHIP R 10K	J	1/16W
R463A			RK73GB1J2R2J	CHIP R 2.2	J	1/16W
R464A,65A			RK73GB1J102J	CHIP R 1.0K	J	1/16W
R466A			RK73GB1J000J	CHIP R 0	J	1/16W
R467A			RK73GB1J103J	CHIP R 10K	J	1/16W
R467A			RK73GB1J471J	CHIP R 470	J	1/16W
R468A,69A			RK73GB1J473J	CHIP R 47K	J	1/16W
R470A			RK73GB1J153J	CHIP R 15K	J	1/16W
R471A			RK73GB1J473J	CHIP R 47K	J	1/16W
R473A			RK73GB1J473J	CHIP R 47K	J	1/16W
R475A			RK73GB1J103J	CHIP R 10K	J	1/16W
R476A			RK73GB1J103J	CHIP R 10K	J	1/16W
R477A,78A			RK73GB1J470J	CHIP R 47	J	1/16W
R479A			RK73GB1J105J	CHIP R 1.0M	J	1/16W
R480A			RK73GB1J103J	CHIP R 10K	J	1/16W
R481A			RK73GB1J101J	CHIP R 100	J	1/16W
R484A			RK73GB1J102J	CHIP R 1.0K	J	1/16W
R486A			RK73GB1J103J	CHIP R 10K	J	1/16W
R487A-91A			RK73GB1J332J	CHIP R 3.3K	J	1/16W
R492A			RK73GB1J000J	CHIP R 0	J	1/16W
R501A			RK73GB1J202J	CHIP R 2.0K	J	1/16W
R502A			RK73GB1J302J	CHIP R 3.0K	J	1/16W
R503A			RK73GB1J512J	CHIP R 5.1K	J	1/16W
R504A			RK73GB1J103J	CHIP R 10K	J	1/16W
R505A			RK73GB1J303J	CHIP R 30K	J	1/16W
R506A			RK73GB1J202J	CHIP R 2.0K	J	1/16W
R507A			RK73GB1J302J	CHIP R 3.0K	J	1/16W
R508A			RK73GB1J512J	CHIP R 5.1K	J	1/16W
R509A			RK73GB1J103J	CHIP R 10K	J	1/16W
R510A			RK73GB1J303J	CHIP R 30K	J	1/16W
R511A			RK73GB1J202J	CHIP R 2.0K	J	1/16W
R512A			RK73GB1J302J	CHIP R 3.0K	J	1/16W
R513A			RK73GB1J512J	CHIP R 5.1K	J	1/16W
R514A			RK73GB1J103J	CHIP R 10K	J	1/16W
R515A,16A			RK73GB1J223J	CHIP R 22K	J	1/16W
R517A			RK73GB1J681J	CHIP R 680	J	1/16W
R518A,19A			RK73GB1J223J	CHIP R 22K	J	1/16W
R520A			RK73GB1J681J	CHIP R 680	J	1/16W
R601A,02A			RK73GB1J332J	CHIP R 3.3K	J	1/16W
R603A,04A			RK73GB1J152J	CHIP R 1.5K	J	1/16W
R605A,06A			RK73GB1J222J	CHIP R 2.2K	J	1/16W
R607A,08A			RK73GB1J751J	CHIP R 750	J	1/16W
R609,610			RD14GB2E3R3J	FL-PROOF RD 3.3	J	1/4W
R611A,12A			RK73GB1J471J	CHIP R 470	J	1/16W
R615			RS14DB3D101J	FL-PROOF RS 100	J	2W
R617A			RK73GB1J123J	CHIP R 12K	J	1/16W

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R620A			RK73GB1J821J	CHIP R 820	J	1/16W
R621A			RK73GB1J202J	CHIP R 2.0K	J	1/16W
R622A			RK73GB1J562J	CHIP R 5.6K	J	1/16W
R623A			RK73GB1J561J	CHIP R 560	J	1/16W
R624A			RK73GB1J103J	CHIP R 10K	J	1/16W
R625A			RK73GB1J473J	CHIP R 47K	J	1/16W
R626A			RK73GB1J152J	CHIP R 1.5K	J	1/16W
R627A			RK73GB1J471J	CHIP R 470	J	1/16W
R628A			RK73GB1J4R7J	CHIP R 4.7	J	1/16W
R632A			RK73GB1J4R7J	CHIP R 4.7	J	1/16W
R701A			RK73GB1J472J	CHIP R 4.7K	J	1/16W
R702A			RK73GB1J473J	CHIP R 47K	J	1/16W
R704A			RK73GB1J393J	CHIP R 39K	J	1/16W
R705A			RK73GB1J223J	CHIP R 22K	J	1/16W
R706A			RK73GB1J152J	CHIP R 1.5K	J	1/16W
R707A			RK73GB1J2R7J	CHIP R 2.7	J	1/16W
R708A			RK73GB1J104J	CHIP R 100K	J	1/16W
R709A			RK73GB1J102J	CHIP R 1.0K	J	1/16W
R710			RS14DB3A101J	FL-PROOF RS 100	J	1W
R713A			RK73GB1J334J	CHIP R 330K	J	1/16W
R715A			RK73GB1J104J	CHIP R 100K	J	1/16W
R716A			RK73GB1J102J	CHIP R 1.0K	J	1/16W
R801A-04A			RK73GB1J101J	CHIP R 100	J	1/16W
R806A			RK73GB1J302J	CHIP R 3.0K	J	1/16W
R807A			RK73GB1J202J	CHIP R 2.0K	J	1/16W
R808A			RK73GB1J101J	CHIP R 100	J	1/16W
R809A			RK73GB1J102J	CHIP R 1.0K	J	1/16W
R810A,11A			RK73GB1J560J	CHIP R 56	J	1/16W
R813A			RK73GB1J000J	CHIP R 0	J	1/16W
R814A			RK73GB1J472J	CHIP R 4.7K	J	1/16W
R815A			RK73GB1J4R7J	CHIP R 4.7	J	1/16W
VR101,102		*	R32-0097-08	TRIM POT 10K 012-10103-102		
VR201			R32-0084-08	TRIM POT 20K 012-10203-102		
⚠ RL701		*	S76-0119-08	RELAY 065-00105-001		
SW401		*	S74-0093-08	TACT SW 020-31100-056		
SW501-515			S70-0075-08	TACT SW 020-31100-164		
SW801			S70-0075-08	TACT SW 020-31100-164		
⚠ BD701			RS402	DIODE		
D101-104			1SS133	DIODE		
D105			MTZJ5.1B	ZENER DIODE		
D201,202			1SS133	DIODE		
D203A			DA204U	DIODE		
D203A			MA143A	DIODE		
D203A			1SS302	DIODE		
D401-405			1SS133	DIODE		
D407-409			1SS133	DIODE		
D601			MTZJ5.1B	ZENER DIODE		
D603			MTZJ10C	ZENER DIODE		
D604			MTZJ8.2B	ZENER DIODE		
⚠ D701-704			1N4004	DIODE		
D707,708			1SS133	DIODE		
D709			MTZJ3.3B	ZENER DIODE		
D710A			MA111	DIODE		
D712			1N4004	DIODE		

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PARTS LIST

MDX-01/02

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
IC101			LA1838	IC(FM-AM SYSTEM IC)		
IC102			LC72131	IC(PLL FREQUENCY SYNTHESIZER)		
IC201			CXA1571M	IC(CD RF AMP))		
IC202			CXD2587Q	IC(DAC DSP)		
IC203			BA5979S	IC(4CH BTL)		
△ IC301			LC75396	IC		
△ IC302			AN7805S/A	IC		
△ IC302			NJM7805FA	IC(VOLTAGE REGULATOR)		
IC401			M30624MG-308FP	IC		
IC403			PST600F	IC 002-90600-120		
△ IC601			LA4597	IC		
IC801			SPS-440-1-E	IC 061-04401-000		
Q1 -3			2SC930	TRANSISTOR		
Q101			2SA1317	TRANSISTOR		
Q102			2SC930	TRANSISTOR		
Q201			2SA984E	TRANSISTOR		
Q202			2SA1317	TRANSISTOR		
Q203			2SC3330	TRANSISTOR		
△ Q204			2SA984E	TRANSISTOR		
Q401			2SB764	TRANSISTOR		
Q402			2SC3330	TRANSISTOR		
Q403			2SA1317	TRANSISTOR		
Q405-407			2SC3330	TRANSISTOR		
Q501,502			2SA1317	TRANSISTOR		
Q601,602			2SC3330	TRANSISTOR		
△ Q604			2SC3330	TRANSISTOR		
△ Q607			2SD2061E	TRANSISTOR		
△ Q608,609			2SC3330	TRANSISTOR		
△ Q610			2SD2061E	TRANSISTOR		
△ Q701,702			2SC3330	TRANSISTOR		
△ Q703			2SA984E	TRANSISTOR		
Q704			2SC3330	TRANSISTOR		
MD MECHANISM PCB (X29-2650-00)						
CN1			E40-8398-05	FLAT CABLE CONNECTOR 11P		
R1			RK73FB2A823J	CHIP R 82K J 1/10W		
R2 ,_3			RK73FB2A333J	CHIP R 33K J 1/10W		
R4			RK73FB2A223J	CHIP R 22K J 1/10W		
W1			R92-0670-05	CHIP R 0 OHM		
W3 -5			R92-0679-05	CHIP R 0 OHM		
S1			S68-0118-05	PUSH SWITCH		
S2			S64-0041-05	LEVER SWITCH		
S3			S68-0119-05	PUSH SWITCH		
S4 ,_5			S64-0042-05	LEVER SWITCH		
MD PCB (X33-1270-00)						
C12 ,_13			CC73GCH1H020C	CHIP C 2.0PF C		
C32			CK73GB1C104K	CHIP C 0.10UF K		
C34 ,_35			CK73GB1H222K	CHIP C 2200PF K		
C44			CK73GF1C104Z	CHIP C 0.10UF Z		
C46			CK73GB1C104K	CHIP C 0.10UF K		
C102			CK73GB1C104K	CHIP C 0.10UF K		
C105			CK73GB1E103K	CHIP C 0.010UF K		
C106			CC73GCH1H102J	CHIP C 1000PF J		
C107,108			CK73GF1C104Z	CHIP C 0.10UF Z		
C109			CK73GB1E223K	CHIP C 0.022UF K		

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C110			CK73GB1C104K	CHIP C 0.10UF K		
C111			CK73GB1C683K	CHIP C 0.068UF K		
C112			CK73GB1H472K	CHIP C 4700PF K		
C113			CK73GF1A105Z	CHIP C 1.0UF Z		
C115			CK73GB1A224K	CHIP C 0.22UF K		
C116			CK73GB1E223K	CHIP C 0.022UF K		
C117,118			CK73GB1C104K	CHIP C 0.10UF K		
C121			C92-1371-05	ELECTRO 100UF 6.3WV		
C122			CK73GB1E103K	CHIP C 0.010UF K		
C123,124			CK73GF1C104Z	CHIP C 0.10UF Z		
C128			CK73GB1E103K	CHIP C 0.010UF K		
C129			CK73GB0J474K	CHIP C 0.47UF K		
C130			CC73GCH1H101J	CHIP C 100PF J		
C131			CK73GB1E153K	CHIP C 0.015UF K		
C132			CK73GB0J474K	CHIP C 0.47UF K		
C133			CK73GB1H472K	CHIP C 4700PF K		
C134,135			CK73GF1C104Z	CHIP C 0.10UF Z		
C136			C92-1371-05	ELECTRO 100UF 6.3WV		
C142-144			CC73GCH1H101J	CHIP C 100PF J		
C151			C92-1371-05	ELECTRO 100UF 6.3WV		
C152			CK73GF1C104Z	CHIP C 0.10UF Z		
C158			CK73GB1E682K	CHIP C 6800PF K		
C163,164			CK73GB1E103K	CHIP C 0.010UF K		
C166-168			CK73GF1C104Z	CHIP C 0.10UF Z		
C170,171			CK73GF1C104Z	CHIP C 0.10UF Z		
C181			C93-0032-05	CHIP C 10UF 10WV		
C185			C93-0049-05	CERAMIC 1000PF 630WV		
C187			C92-1371-05	ELECTRO 100UF 6.3WV		
C188			CK73GB1E103K	CHIP C 0.010UF K		
C189			CK73GB1E333K	CHIP C 0.033UF K		
C190			C92-1371-05	ELECTRO 100UF 6.3WV		
C198			C92-1371-05	ELECTRO 100UF 6.3WV		
C200			C93-0032-05	CHIP C 10UF 10WV		
C300,301			CK73GB1H152K	CHIP C 1500PF K		
C302-305			CC73GCH1H391J	CHIP C 390PF J		
C306,307			CK73GB1H152K	CHIP C 1500PF K		
C311			C92-1371-05	ELECTRO 100UF 6.3WV		
C312			C92-0667-05	ELECTRO 10UF 10WV		
C314-319			C92-0667-05	ELECTRO 10UF 10WV		
C320			CC73GCH1H100D	CHIP C 10PF D		
C321			C93-0032-05	CHIP C 10UF 10WV		
C322			CK73GF1C104Z	CHIP C 0.10UF Z		
C325,326			CK73GF1A105Z	CHIP C 1.0UF Z		
C328			CK73GB0J474K	CHIP C 0.47UF K		
CN1			E40-8401-05	FLAT CABLE CONNECTOR		
CN2		*	E40-8681-05	FLAT CABLE CONNECTOR		
CN3		*	E40-8683-05	FLAT CABLE CONNECTOR		
CN4		*	E40-8682-05	FLAT CABLE CONNECTOR		
L5 -9			L79-1216-05	LINE FILTER		
L5 -9			L92-0075-05	FERRITE		
L11			L79-1216-05	LINE FILTER		
L11			L92-0075-05	FERRITE		
L50			L33-1602-05	INDUCTOR		
L51			L33-0545-05	CHOKE COIL		

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L51 X1 X2		*	L33-1608-05 L77-2269-05 L78-0695-05	CHOKE COIL CRYSTAL RESONATOR(45.1584MHZ) RESONATOR (10MHZ)		
R3 ,4 R5 -7 R8 -11 R13 R14			RK73FB2A471J RK73FB2A103J RK73FB2A101J RK73FB2A101J RK73FB2A3R3J	CHIP R CHIP R CHIP R CHIP R CHIP R	470 10K 100 100 3.3	J 1/10W J 1/10W J 1/10W J 1/10W J 1/10W
R15 ,16 R17 ,18 R52 ,53 R103 R104			RK73FB2A474J RK73FB2A3R3J RK73FB2A101J RK73FB2A102J RK73FB2A103J	CHIP R CHIP R CHIP R CHIP R CHIP R	470K 3.3 100 1.0K 10K	J 1/10W J 1/10W J 1/10W J 1/10W J 1/10W
R105 R106 R107 R108,109 R110			RK73FB2A472J RK73FB2A335J RK73FB2A474J RK73FB2A102J RK73FB2A103J	CHIP R CHIP R CHIP R CHIP R CHIP R	4.7K 3.3M 470K 1.0K 10K	J 1/10W J 1/10W J 1/10W J 1/10W J 1/10W
R112 R113 R115 R117 R121			RK73FB2A473J RK73FB2A102J RK73FB2A102J RK73FB2A474J RK73FB2A104J	CHIP R CHIP R CHIP R CHIP R CHIP R	47K 1.0K 1.0K 470K 100K	J 1/10W J 1/10W J 1/10W J 1/10W J 1/10W
R125 R126 R127 R131 R132			RK73FB2A221J R92-1252-05 RK73FB2A105J RK73FB2A103J RK73FB2A104J	CHIP R CHIP R CHIP R CHIP R CHIP R	220 0 OHM 1.0M 10K 100K	J 1/10W J 1/10W J 1/10W J 1/10W J 1/10W
R133 R134 R135 R136 R137			RK73FB2A684J RK73FB2A102J RK73FB2A332J RK73FB2A102J RK73FB2A101J	CHIP R CHIP R CHIP R CHIP R CHIP R	680K 1.0K 3.3K 1.0K 100	J 1/10W J 1/10W J 1/10W J 1/10W J 1/10W
R139 R140 R141 R142,143 R144,145			RK73FB2A1R0J RK73FB2A151J RK73FB2A561J RK73FB2A103J RK73FB2A221J	CHIP R CHIP R CHIP R CHIP R CHIP R	1 150 560 10K 220	J 1/10W J 1/10W J 1/10W J 1/10W J 1/10W
R146-149 R150 R158,159 R160 R161-163			RK73FB2A101J RK73FB2A221J RK73FB2A104J RK73FB2A4R7J RK73FB2A222J	CHIP R CHIP R CHIP R CHIP R CHIP R	100 220 100K 4.7 2.2K	J 1/10W J 1/10W J 1/10W J 1/10W J 1/10W
R164 R165 R166 R167,168 R169			RK73FB2A681J RK73FB2A104J R92-1854-05 RK73FB2A472J R92-1853-05	CHIP R CHIP R RN CHIP R CHIP-RN	680 100K 2.2 4.7K 1	J 1/10W J 1/10W K 1/2W J 1/10W 1/4W
R170,171 R172-174 R175-177 R178 R179			RK73FB2A103J RK73FB2A473J RK73FB2A332J RK73FB2A102J RK73FB2A473J	CHIP R CHIP R CHIP R CHIP R CHIP R	10K 47K 3.3K 1.0K 47K	J 1/10W J 1/10W J 1/10W J 1/10W J 1/10W
R180			RK73FB2A103J	CHIP R	10K	J 1/10W

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Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.



Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R181-183 R184,185 R186,187 R188-190 R200-207			RK73FB2A473J RK73FB2A103J RK73FB2A474J RK73FB2A103J RK73FB2A104J	CHIP R CHIP R CHIP R CHIP R CHIP R	47K 10K 470K 10K 100K	J 1/10W J 1/10W J 1/10W J 1/10W J 1/10W
R208,209 R210-213 R214,215 R216 R217,218			RK73FB2A393J RK73FB2A183J RK73FB2A223J RK73FB2A394J R92-2052-05	CHIP R CHIP R CHIP R CHIP R CHIP R	39K 18K 22K 390K 0	J 1/10W J 1/10W J 1/10W J 1/10W J 1/10W
R223,224 R226 R228,229 W6 ,7 W108			RK73FB2A103J R92-2052-05 RK73FB2A223J R92-0670-05 R92-0679-05	CHIP R CHIP R CHIP R CHIP R CHIP R	10K 0 22K 0 OHM 0 OHM	J 1/10W J 1/10W J 1/10W J 1/10W J 1/10W
W200 W205-208 W221			R92-0679-05 R92-0670-05 R92-0670-05	CHIP R CHIP R CHIP R	0 OHM 0 OHM 0 OHM	
D1 ,2 D10 -13 D101 IC1 IC2		*	EC10QS06 1SR154-400 MA111 CXA2523AR CXD2664R	DIODE DIODE DIODE IC(RF SERVO) MOS-IC		
IC5 IC6 IC7 IC7 IC7			BD7911FV S-24C02BFJ-TB HM51W4400BTT-7 LC32S4400T-10 MN41V4400SJ-08	MOS-IC IC(MEMORY IC) IC(D RAM) IC IC		
IC7 IC8 IC10 IC12 IC24		*	MN41V4400TT-08 BA5984FP L1087MPX-3.3 AK4550VT HD6432227N08FA	IC(D-RAM) IC(CD POWER DRIVER) IC MOS-IC IC		
Q1 Q2 ,3 Q4 ,5 Q6 Q7			FMW1 DTA144EUA DTC114YUA 2SA1576A(R,S) 2SB798-DL	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q8 Q10 ,11 Q20			2SA1576A(R,S) DTC124EUA DTA124EUA	TRANSISTOR TRANSISTOR TRANSISTOR		
MD MECHANISM (D40-1706-05)						
201 203 204 205 206	2A 1B 1A 1B 2A		G02-1660-08 J11-0842-08 G02-1678-08 F07-1670-08 A11-1155-08	FLAT SPRING CLAMPER ASSY FLAT SPRING COVER SUB-CHASSIS ASSY	FEED THRUST TOP	
207 208 209 210 211	2A 1B 3B 2B 2A		G02-1669-08 J19-5986-18 A15-0099-08 A10-3473-08 D10-3861-08	FLAT SPRING HOLDER ASSY FRAME CHASSIS ROD	FEED SUB	
212 213	1A 1B		D10-3862-08 D21-1859-08	ROD SHAFT	MAIN JOINT	

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

PARTS LIST

MDX-01/02

HOW TO READ THE PARTS LIST

ABBREVIATION OF MODEL AND MASS PRODUCTION'S DESTINATIONS

MODEL	ABB.	Australia	Canada	China	England	Europe	Germany	Korea	Malaysia
		X	P	C	T	E	G	H	I
MDX-01-D	D	-	-	-	-	-	-	-	-
MDX-01-L	L	-	-	-	-	-	-	-	-
MDX-01-LH	H	-	-	-	-	-	-	-	-
MDX-01-R	R	-	-	-	-	-	-	-	-
MDX-02-S	S	-	-	-	-	-	-	-	-

MODEL	ABB.	Mexico	PX/AAFES	Russia	Scandinavia	Shanghai	USA	Other area
		R	Y	Q	L	V	K	M
MDX-01-D	D	-	-	-	-	-	-	ORANGE
MDX-01-L	L	-	-	-	-	-	-	BULE
MDX-01-LH	H	-	-	-	-	-	-	GREY
MDX-01-R	R	-	-	-	-	-	-	RED
MDX-02-S	S	-	-	-	-	-	-	SILVER

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Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
214	2A		D10-3859-08	ARM		CHANGE
215	1A		D13-1792-08	RACK		GEAR
216	3A		D13-1918-08	GEAR		IDLER
217	3A		D13-1917-08	GEAR		INTERMEDIATE
218	3A		D13-1919-08	GEAR		DRIVE
221	1A		D13-1921-08	GEAR		FEED
222	1B		D10-3863-08	SLIDER		LOAD
223	1B		D10-3864-08	ARM		LOAD
224	3A		D13-1916-08	GEAR		FINAL
225	1A		D10-3865-08	ARM		CLAMP
226	2A		D10-3858-08	SLIDER		OUTER
227	2B		D10-3866-08	LEVER ASSY		HD
228	2A		D10-3860-18	SLIDER		INNER
229	2A		J90-0866-08	GUIDE		SUB-SO
232	1A		J90-0865-18	GUIDE		MAIN-SO
233	3A,3B		J02-1446-08	INSULATOR		
234	2B		G01-4115-08	TORSION SPRING SPDL		
235	1B		G01-4116-08	TENSION SPRING ARM		
236	1A		G01-4117-08	TORSION SPRING CLAMP		
237	2B		G01-4118-08	SPRING		HD
239	1B		G11-2383-08	CUSHION		
246	3A		N19-1105-04	WASHER		1.6X4.0X0.5C
247	1B		N19-0366-04	WASHER		2.1X4.0X0.5C
249	1A		D19-0315-08	REED SWITCH		
254	2A		E35-2348-08	FLAT CABLE		PU
257	3B		E35-2349-08	FLAT CABLE		11P
258	1B,3B		X29-2650-00	PCB		
259	3B	*	X33-1270-00	CONTROL PCB		
A			N86-2004-46	SCREW		
B			N09-2817-05	SCREW		2.610
C			N09-4154-05	SCREW		2.0X6.0
D			N09-3104-05	SCREW		1.7X2.0
F			N09-3279-05	SCREW		1.7X3.0
G			N39-1745-46	SCREW		1.7X4.5
H			N79-1422-46	SCREW		1.4X2.2
DMMD	2B	*	T42-0992-08	DM ASSY		
FMMD	2B	*	T42-0940-08	FM ASSY		
LMMD	2A	*	T42-0938-08	LM ASSY		
PUMD	1A		T25-0085-05	PICKUP		KSM-260B
RHMD	1A		T30-0021-05	RECORDING HEAD		

△

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SPECIFICATIONS

Amplifier section

Maximum practical output
..... 2 W + 2 W (EIAJ, 4 Ω)

Tuner section

FM tuner
Tuning frequency range 87.5 MHz ~ 108 MHz
AM tuner
Tuning frequency range 531 kHz ~ 1,602 kHz

MD Recorder section

Laser wave length 765 to 805 nm
Laser power class Class 3B
Reading method
..... Non-contact optical read (using a laser diode)
Recording method Field modulating overwriting
Audio compression method ATRAC
D/A conversion 1 Bit
Wow & flutter Below measurable limit

CD Player section

Reading method
..... Non-contact optical read (using a laser diode)
D/A conversion 1 Bit
Sampling frequency 8 fs (352.8 kHz)
Frequency response 20 Hz to 20,000 Hz
Wow & flutter Below measurable limit

Speakers

Enclosures Bass-reflex type
Speaker units 80 mm, cone type

Power Supply, etc.

Supply voltage/frequency AC 220 V, 50Hz
Rated power consumption 24 W
STANDBY power consumption 0.4 W
Dimensions (including projections)..... W : 410 mm
H : 170 mm
D : 190 mm
Weight 4.6 kg (net)



- KENWOOD follows a policy of continuous advancements in development. For reason specifications may be changed without notice.
- The full performance may not be exhibited in an extremely cold location (under a water-freezing temperature).

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