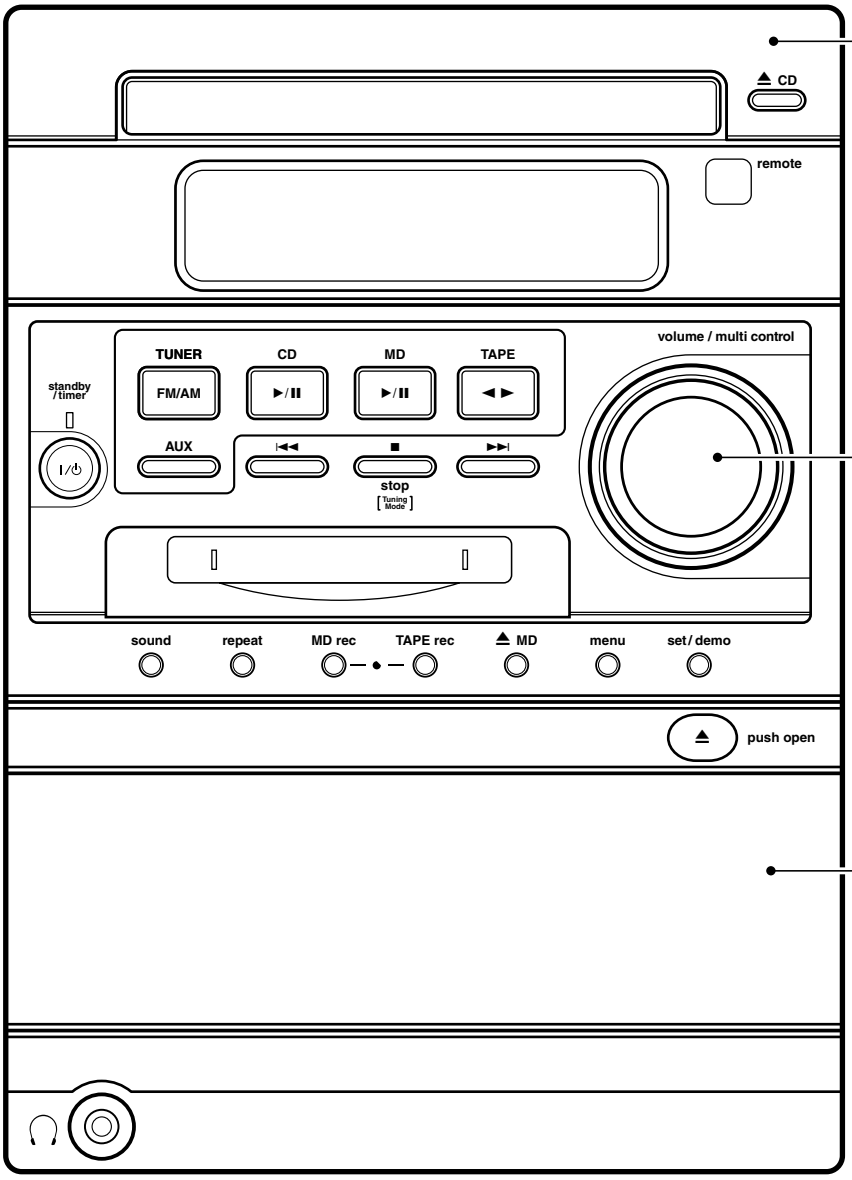
MINI HiFi COMPONENT SYSTEM

RXD-M33/M33MD

SERVICE MANUAL

(HM-333/HM-383MD)**

KENWOOD



**Refer to page 2 if you want to know system configuration.

*** Refer to parts list on page 36.**

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

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.

70%

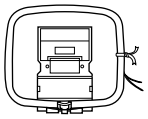
RXD-M33/M33MD

CONTENTS / ACCESSORIES / CAUTIONS

Contents

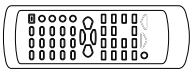
Accessories

AM loop antenna (1)
(T90-0852-05)

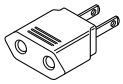


FM indoor antenna (1)
(T90-0877-05)

Remote control unit (1)

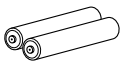


AC plug adaptor (1)
(E03-0115-05)



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

Batteries (R6/AA) (2)



Remocon & System Configuration

SYSTEM	MAIN UNIT	DESTINATION	SPEAKER	SP CORD-PARTS No	COLOR
HM-383MD-S	RXD-M33MD-S	MIXTE	LS-M33-S	E30-5917-08	SILVER
HM-383MD-LM	RXD-M33MD-L	MTH	LS-M33-LM	E30-5917-08	BLUE(GRAIN CABI)
HM-383MD-N	RXD-M33MD-N	MTV2	LS-M33-N	E30-5917-08	GOLD
HM-333-S	RXD-M33-S	T1H1E1	LS-M33-S	E30-5917-08	SILVER
HM-333-L	RXD-M33-L	T1E1	LS-M33-L	E30-5917-08	BLUE(SILVER CABI)
HM-333-N	RXD-M33-N	T1E1	LS-M33-N	E30-5917-08	GOLD
HM-333-LM	RXD-M33-L	H1	LS-M33-LM	E30-5917-08	BLUE(GRAIN CABI)
HM-333-S	RXD-M33E-S	E2	LS-M33-S	E30-5917-08	SILVER
HM-333E-L	RXD-M33E-L	E2	LS-M33-L	E30-5917-08	BLUE(SILVER CABI)
HM-333E-N	RXD-M33E-N	E2	LS-M33-N	E30-5917-08	GOLD
HM-333-S	RXD-M33-S	KPM1I1X1	LS-M33-S	E30-5917-08	SILVER
HM-333-L	RXD-M33-L	KPV1	LS-M33-L	E30-5917-08	BLUE(SILVER CABI)
HM-333-LM	RXD-M33-L	M1I1X1	LS-M33-LM	E30-5917-08	BLUE(GRAIN CABI)
HM-333-N	RXD-M33-N	M1	LS-M33-N	E30-5917-08	GOLD
HM-333-LM(M2)	RXD-M33-L	M2	LS-M33-LM	E30-5917-08	BLUE(GRAIN CABI)
HM-333-N(M2)	RXD-M33-N	M2	LS-M33-N	E30-5917-08	GOLD

		Remote controller		
MODEL	Destinations	Parts number	Model name	Battery cover
RXD-M33MD	THE	A70-1491-05	RC-M0303E	A09-1151-08
RXD-M33MD	MIXV2	A70-1492-05	RC-M0303	A09-1151-08
RXD-M33	KPM1I1X1V1M2	A70-1493-05	RC-F0303	A09-1151-08
RXD-M33	T1E1H1E2	A70-1494-05	RC-F0303E	A09-1151-08

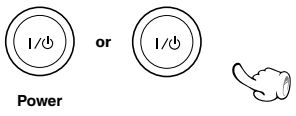
Cautions

Operation to reset

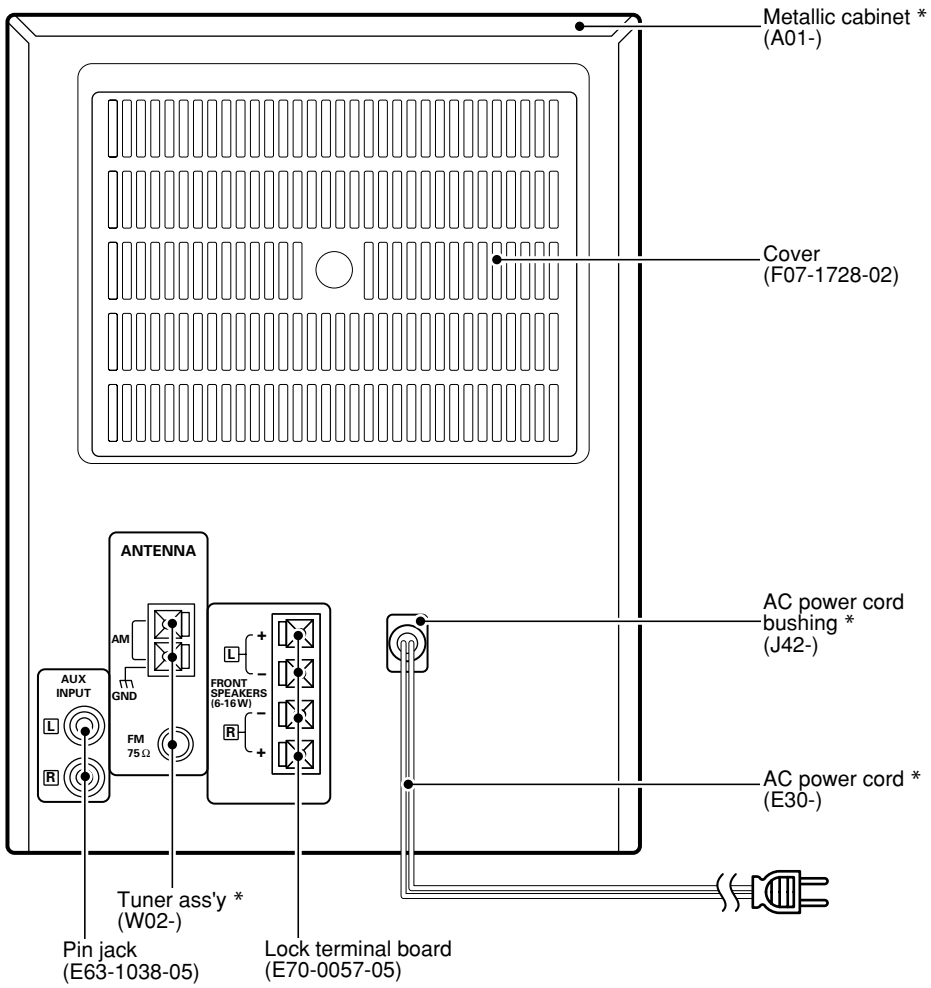
The microcomputer may fall into malfunction (impossibility to operate, erroneous display, etc.) when the power cord is unplugged while unit is ON or due to an external factor. In this case, execute the following procedure to reset the microcomputer and return it to normal condition.

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

Unplug the power cord from the power outlet then, while holding the Power I/⏻ key depressed, plug the power cord again.



EXTERNAL VIEW

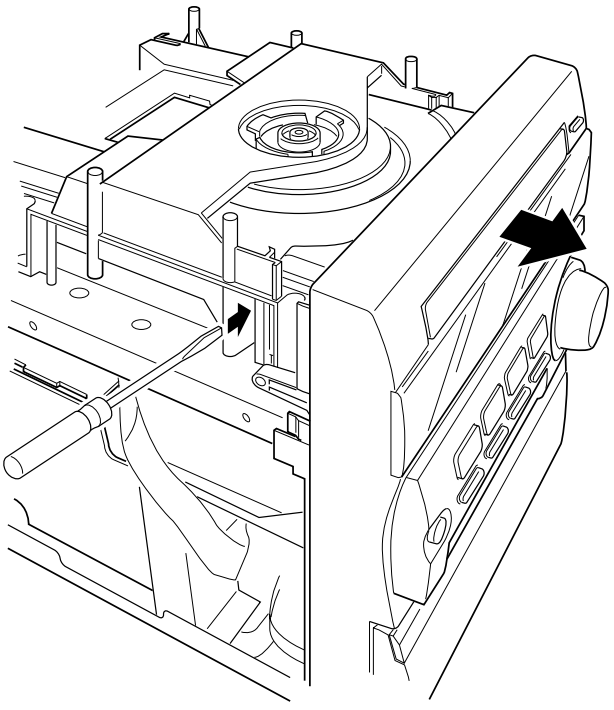


*** Refer to parts list on page 36.**

DISASSEMBLY FOR REPAIR

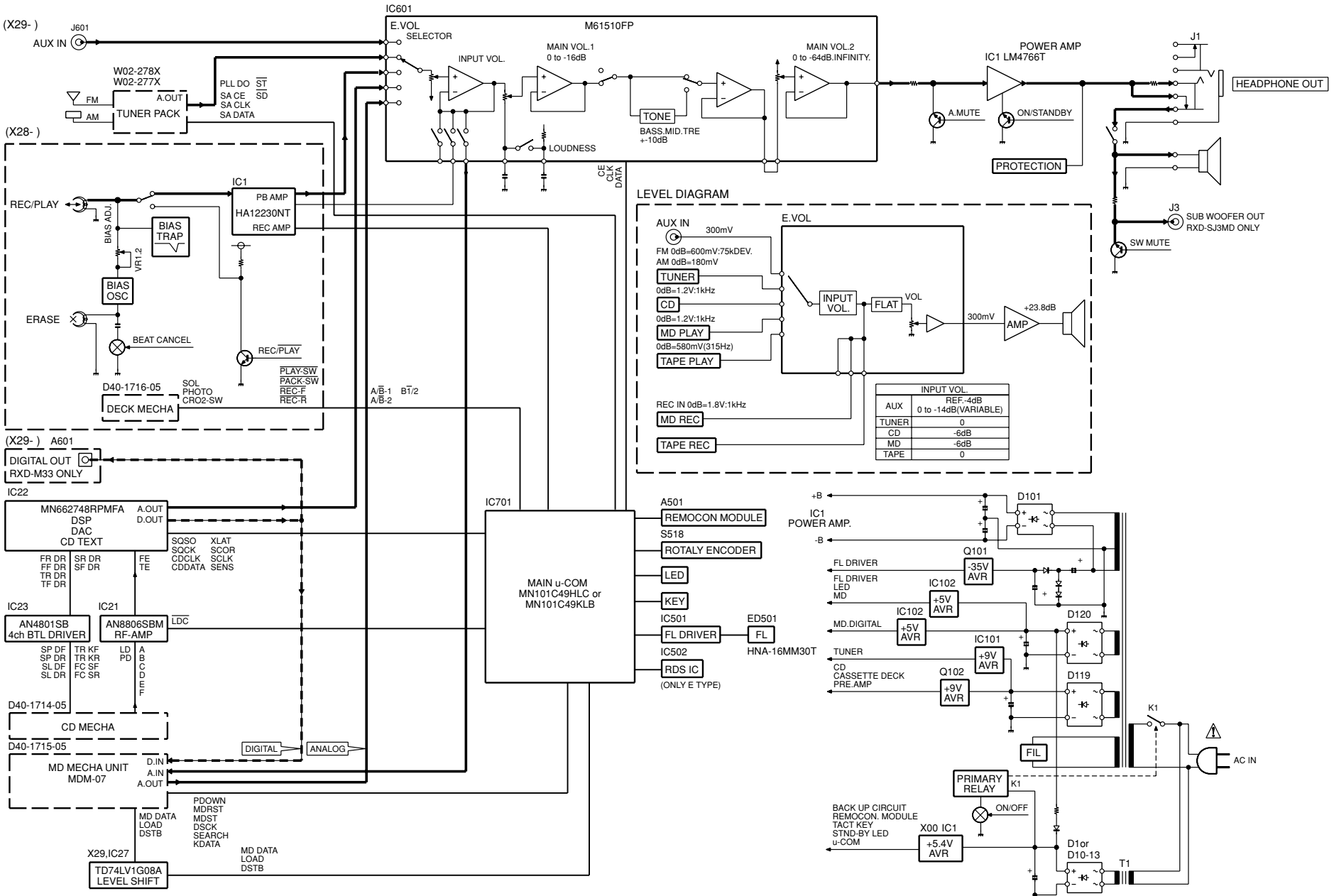
How to open the CD tray when it does not come out.

1. Insert a flat driver and so on to a square hole in the mechanism as shown in the figure.
2. Push a rack gear in the direction of arrow.
   (At this time, the tray comes out slightly frontward).
3. The tray can be opened with hand.



RXD-M33/M33MD

BLOCK DIAGRAM



RXD-M33MD-S/M33MD-L/M33MD-N
RXD-M33-S/M33-L/M33-N
RXD-M33E-S/M33E-L/M33E-N

CIRCUIT DESCRIPTION

1. Initializing

1-1 Initialization Method

• While pressing the [POWER] key, turn the AC on.

1-2 Initialization Operation

• During the initial operation, the display shows "INITIALIZE" and after that it will be returned to standby condition.
• If any mechanisms error occurred, the error indication is displayed as "ERR" on the display.

1-3 Mechanism Initializations

① CD Mechanism
• If a mechanism error occurred, the error indication is displayed as "C ERR" on the display.
② Deck Mechanism
• If a mechanism error occurred, the error indication is displayed as "X ERR" on the display.
③ MD Mechanism
• If a mechanism error occurred, the error indication is displayed as "M ERR" on the display.
• The disc will be unloaded from MD mechanism automatically, if a disc is its in.

2. Tuner Destination

Set	Destination	Band	Receiving Frequency Range	Channel Space	IF	RF
K,P	K1	FM	87.5MHz~108.0MHz	100kHz	+10.7MHz	25kHz
		AM	530kHz~1700kHz	10kHz	+450kHz	10kHz
E,T,H E2	E3 RDS	FM	87.5MHz~108.0MHz	50kHz	+10.7MHz	25kHz
		AM	531kHz~1602kHz	9kHz	+450kHz	9kHz
M,Y,X	E1	FM	87.5MHz~108.0MHz	50kHz	+10.7MHz	25kHz
		AM	531kHz~1602kHz	9kHz	+450kHz	9kHz
M,Y	K2	FM	87.5MHz~108.0MHz	100kHz	+10.7MHz	25kHz
		AM	530kHz~1610kHz	10kHz	+450kHz	10kHz

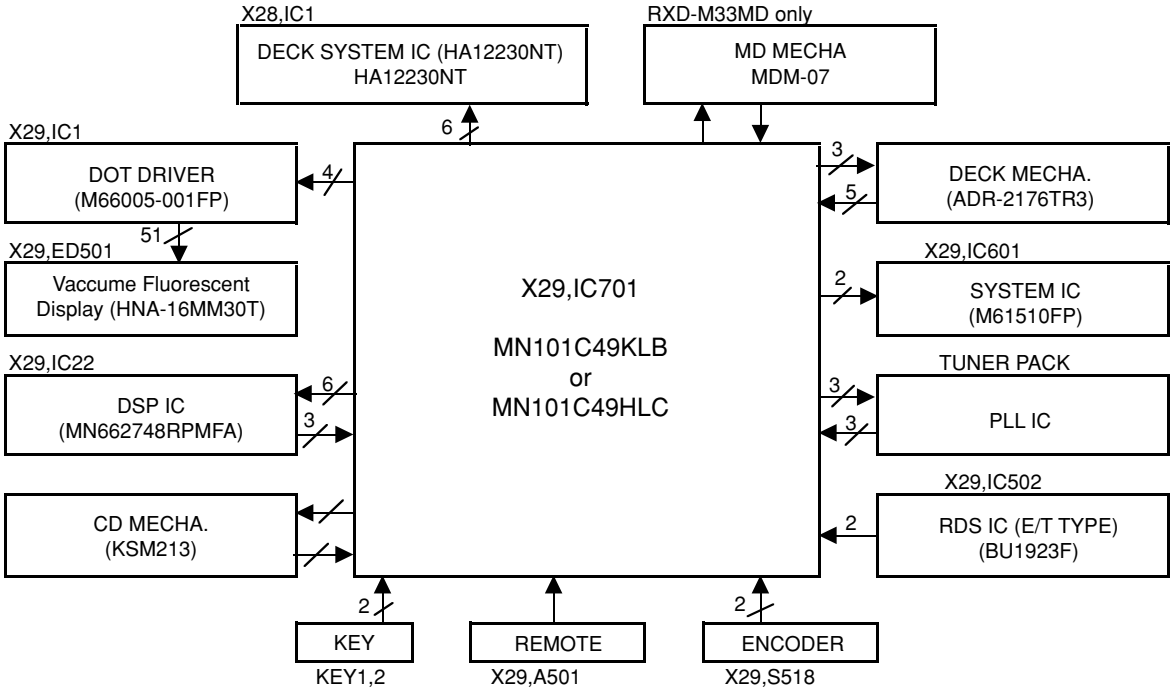
3. Tuner Preset Frequency

P.CH	Frequency			P.CH	Frequency		
	K1(K,P TYPE)	K2(M,Y TYPE)	E1/E3 (E,E2,T,H,M,Y,X)		K1(K,P TYPE)	K2(M,Y TYPE)	E1/E3 (E,E2,T,H,M,Y,X)
1	FM 98.30MHz	FM 98.30MHz	FM 98.30MHz	16	FM 98.00MHz	FM 98.00MHz	FM 98.00MHz
2	FM 87.50MHz	FM 87.50MHz	FM 98.00MHz	17	FM 98.50MHz	FM 98.50MHz	FM 98.50MHz
3	FM 89.10MHz	FM 89.10MHz	FM 87.50MHz	18	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
4	FM 108.0MHz	FM 108.0MHz	FM 89.10MHz	19	AM 990kHz	AM 990kHz	AM 990kHz
5	FM 90.00MHz	FM 90.00MHz	FM 108.0MHz	20	FM 97.40MHz	FM 97.40MHz	FM 97.70MHz
6	FM 87.50MHz	FM 87.50MHz	FM 90.00MHz	21	AM 530kHz	AM 530kHz	AM 531kHz
7	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz	22	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
8	AM 1610kHz	FM 87.50MHz	FM 87.50MHz	23	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
9	AM 1700kHz	AM 1610kHz	AM 1602kHz	24	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
10	AM 1000kHz	AM 1000kHz	AM 999kHz	25	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
11	AM 630kHz	AM 630kHz	AM 630kHz	26	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
12	AM 1440kHz	AM 1440kHz	AM 1440kHz	27	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
13	FM 106.0MHz	FM 106.0MHz	FM 106.0MHz	28	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
14	AM 530kHz	AM 530kHz	AM 531kHz	29	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
15	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz	30	FM 106.0MHz	FM 106.0MHz	FM 106.0MHz

CIRCUIT DESCRIPTION

4. Microprocessor : MN101C49KLB or MN101C49HLC(X29,IC701)

4-1 Microprocessor Periphery Block Diagram



4-2 Port Description of Microprocessor

Port No.	Port Name	I/O	Description	ACTIVE	
				H	L
1	GND	-	Connected to ground.		
2	PH	I	Deck reel sensor input.		
3	TN TYPE	I	Discrimination of tuner destination.		
4	S LEVEL	I	RDS signal level input. (RDS version only)		
5	CD PROTECT	I	Detection port for CD protection.		
∗6	MD BACKV	I	Detection port for MD back up voltage.		
7,8	KEY2,KEY1	I	A/D key (1,2) input.		
9	NO USE	-	Unused.		
10	VREF	-	A/D reference voltage input for the A/D converter.		
11	VDD	I	Power supply input (+5V).		
12	OSC2	O	Main clock output (8.38MHz).		
13	OSC1	I	Main clock input (8.38MHz).		
14	GND	-	Connected to ground.		
15	XI	I	Timer clock input (32kHz).		
16	XO	O	Timer clock output (32kHz).		
17	GND	-	Connected to ground.		
∗18	MD TXD	O	MD communication TX .(to mecha. u-com RX)		
∗19	MD RXD	I	MD communication RX .(to mecha. u-com TX)		
20	NC	-	Unused.		
21	FL SDATA	O	Data output to FL dot driver.		
22	NC	-	Unused.		
23	FL SCLK	O	Clock output to FL dot driver.		
24	FL RESET	O	Reset output to FL dot driver.		RESET
25	FL CE	O	CE output to FL dot driver.		
26	REM	I	Remote control signal input.		
27	MODEL TYPE	I	Discrimination port for model type.		FIXED
28	CD BLKCK	I	Sub code synchronous signal input. L→H : Interrupt		
29	RDSCLK	I	RDS clock input. (E/T version only)		
30,31	ENC A,B	I	Volume encoder (A/B) input.		
32	VDD2	I	Power supply input (+5V) for flash ROM writing.		
33	RESET	I	Reset signal input for microcomputer.		RESET
34	CE	I	Back up detection input.	AC On	AC Off
35	CL SW	I	Input port of close switch for CD tray.		

∗Used for RXD-M33MD only.

CIRCUIT DESCRIPTION

4-2 Port Description of Microprocessor

Port No.	Port Name	I/O	Description	ACTIVE	
				H	L
36	SLT SW	I	CD start limit switch input.		
37	XRST	O	CD DSP reset output.		RESET
38	OP SW	I	Input port of open switch for CD tray.		
39,40	NC	-	Unused.		
41	VPP	I	Microcomputer power supply (+5v).		
42	MDATA	O	CD DSP command data output.		
43	STAT	I	CD DSP status signal input.		
44	MCLK	O	CD DSP command clock signal output.		
45	MLD	O	CD DSP command load signal output.		
46	SUBQ	I	CD sub code input.		
47	SQCK	O	Clock output for CD sub code.		
48	EEP SDA	-	Unused.		
49	EEP SCL	-	Unused.		
50	HP IN	I	Detection port for headphones jack.		
51	OPEN	O	Control port of CD tray motor.		
52	CLOSE	O	Control port of CD tray motor.		
∗53	MD CE	I	Detection port for MD back up.		
∗54	MD RST	I	Reset output from MD mechanism.		
55	INI MD SW	-	Unused.		
56	BACK CHK	-	Unused.		
57	BACK ON	-	Unused.		
∗58	MD IN SW	I	Load switch input for MD disc.		
59	NC	-	Unused.		
60	PLAY SW	I	Detection switch input of head position for deck.		
61	CrO2 SW	I	Detection switch input of CrO2 tape for deck.		
62	HALF SW	I	Cassette half switch input.		
63	REC F SW	I	Deck forward recording switch input.	OFF	ON
64	CPM	O	Control port of capstan motor for deck.		
65	REC R SW	I	Deck reverse recording switch input.	OFF	ON
66	SOL	O	Control port of solenoid for deck.		
67	LMUTE	O	Deck lien mute control.	ON	
68	A/B-1	O	Deck recording mute & head select control 1.		
69	A/B-2	O	Deck recording mute & head select control 2.		
70	B Ⅰ/Ⅱ	O	Control port of recording equalizer for deck.		
71	NOR	O	Switching port of bias (NOR/CrO2) for deck.		
72	BIAS	O	Control port of bias on/off for deck.	ON	OFF
73	R/P	O	Deck recording & playback changeover.	RECORDING	PLAYBACK
74	BEAT C	O	On/off control port of beat cancel for deck.	ON	OFF
75	NC	-	Unused.		
76	EVCLK	O	Sound controller clock output.		
77	EVDATA	O	Sound controller data output.		
78~80	NC	-	Unused.		
81	LED STBY GRN	O	Standby led (green) control port.	OFF	ON
82	LED STBY RED	O	Standby led (red) control port.	OFF	ON
83,84	NC	-	Unused.		
85	CD POWER	O	CD DSP power on/off changeover control.	ON	OFF
86	SP RLY	O	On/off control port for speaker relay.		
87	AMUTE	O	Audio mute output.		
88	POWER	O	Power relay control.		
89	PROTECTION	I	Detection port for power supply protection.		
90	RDS DATA	I	RDS data input. (RDS version only)		
91	TU MUTE	O	Tuner mute control.		
92	EMPHASIS	-	Unused.		
93	ST	I	Stereo detector input.		
94	SD	I	SD detector input.		
95	GND	-	Connected to ground.		
96	PLL DATA	O	PLL IC data output.		
97	PLL CLK	O	PLL IC clock output.		
98	PLL DO	I	PLL IC data input.		
99	PLL CE	O	PLL IC chip enable output.		
100	DAVDD	I	D/A converter positive voltage.		

∗Used for RXD-M33MD only.

CIRCUIT DESCRIPTION

5. Test Mode

5-1 Setting method of the Test Mode

• While pressing the "below each" key in the table, turn the power switch on.

TEST MODE	SETTING METHOD
CD MODE	CD PLAY key+AC ON
MD MODE (M33MD only)	MD PLAY Key + AC ON
DECK MODE	TAPE PLAY key + AC ON (RXD-M33MD)
	TAPE FWD PLAY + AC ON (RXD-M33)
∗SUB CLOCK OSC DIAGNOSIS	STOP key + AC ON

∗The oscillation diagnosis (existence of oscillation and measurement of period) of a sub clock is performed before the test mode is entered. If the diagnosis result is OK, the system enters the test mode.
If the diagnosis result is NG, the oscillation of the sub clock is diagnosed again. If the result is OK, the system enters the test mode. If the diagnosis result is continuously NG 5 times, the system stops with "ERR1" and "ERR2" displayed.

5-2 Cancel of the test mode

• By turning the AC off, the system is initialized and the test mode is canceled.
• Cancel the test mode only if the power switch is turned off.

5-3 Contents of the Test Mode

• The muting during mode selection is not controlled in the test mode.
• During the test mode, it can be operated in a special manner that is different from an ordinary operation by using the keys on the main body, specifically as shown in the following tables.

5-4 CD Test Mode

KEYS	DISPLAY	OPERATION
CD-PLAY/PAUSE (Cyclically changed the mode 05 and 03 by pressing the key.)	05 ∗∗:∗∗ (∗∗:∗∗)Time Display	Tracking-servo on.
	03 ∗∗:∗∗ (∗∗:∗∗)Time Display	Tracking-servo off.
CD STOP (Cyclically changed in the stop mode only.)	01 --:--	Stop the CD operation.
	07 FG/FE 08 FB/FO 09 TG/TE 10 TB/TO	Adjustment value/mean value FG value /FE value FBAL value /FO value TG value /TE value TBAL value /TO value
SKIP UP	Ex.01~02	• Track number up.
SKIP DOWN	Ex.02~01	• Track number down.
SKIP UP	Usual Indication	• Play the first track number in the stop mode.
SKIP DOWN	Usual Indication	• Play the last track number in the stop mode.
REPEAT	FF	• CD FF search. • The pickup travels outward in the stop mode.
SOUND	FB	• CD FB search. • The pickup travels inward in the stop mode.

5-5 Deck Test Mode

KEYS	DISPLAY	OPERATION
TAPE REC (RXD-M33MD) TAPE O.T.E. (RXD-M33)	TAPE	• 4 Seconds Recording If the REC/ARM key is pressed, the system record for 4 seconds. Then, it rewinds to the REC starting position and plays back automatically. If the REC/ARM key is pressed, during the 4 seconds REC operation, the system records further for 4 seconds, then returns to the starting position of the first 4 seconds REC operation and plays back.
SOUND	Beat-C ON	Beat cancel will be on while pressing the sound key.
MENU	Normal Indication	Changeover the EQ. On/off cyclically.

CIRCUIT DESCRIPTION

∗Mechanism half switches indication

The mechanism half switches status are indicated "blank" or "E" on the display.

8th Dot(Display)	1st figure	2nd figure	3rd figure	4th figure
Mechanism Half Switch	FWD REC Inhibit Detection SW	RVS REC Inhibit Detection SW	CrO2(TYPE Ⅱ) Detection SW	Cassette Half Detection SW
ON	Blank	Blank	Blank	Blank
OFF	E	E	E	E

5-6 MD Test Mode

KEYS	DISPLAY	OPERATION
REPEAT	Usual Indication	Hi-speed O.T.E.(CD→MD) operation in the stop mode.
	FF	MD FF search in the play mode.
SOUND	DIGITAL or ANALOG	The digital and analog can be changed cyclically by pressing the "SOUND" key.
	FB	MD FB search in the play mode.
STOP	01 --:--	Stop the MD operation.
MD REC	Usual Indication	Start the MD recording with LP4 mode.
SET	ALL ERASE	Stop the MD operation, and start operation of ALL- ERASE if disc is recordable.

6. Initializing the MD Mechanism

6-1 Initialization Method

• Turn the AC on while pressing the MD [EJECT] key.

7. MD Test Mode for Adjustment

7-1 Contents of the Test Mode

7-2 Entering the Test Mode

• Turn the AC on while pressing the MD [PLAY/PAUSE] key and MD[REC] key simultaneously.

7-3 Canceling the Test Mode

• Turn the AC off.

7-4 Key Operations for Adjustment

KEYS	OPERATION
Volume/multi-control	Select the mode or changed the adjustment value.
MD PLAY/PAUSE	Fix the mode or adjustment value. Skip to next step.
STOP	Cancel the selected mode and changed to menu page. Return to the state previous before.
MENU	Select servo of PIT or GROOVE.
REPEAT	Changeover the display mode.
SKIP UP	Pickup moves outwards when pressed skip up key.
SKIP DOWN	Pickup moves inwards when pressed skip down key.
SET/DEMO	Changeover the tracking servo on/off.
TAPE REC	Servo on.
SOUND	Changeover the usual mode, key shift mode and EEP mode.

CIRCUIT DESCRIPTION

7-5 LCD Indication for Mechanism Operation

LCD	DESCRIPTION
⌈►⌋	Servo on.
⌈ ⏸ ⌋	Tracking servo on
⌈ ● ⌋	Servo on (laser write power)
⌈ ▶ ⌋	Servo GROOVE mode
⌈ ◀ ⌋	Servo PIT mode
⌈LOUD⌋	Key shift
⌈EX. BASS⌋	EEP mode
⌈(⇆)⌋	Spindle lock
⌈MD⌋	Recordable disc

7-6 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.	4-5
2	LDPWR ADJU	Laser power adjustment.	4-6
3	LDPWR CHEC	Laser power check.	4-6
4	EFBAL ADJU	EF balance adjustment (Traverse adjustment).	4-7
5	TE B. ADJ	Automatic EF balance adjustment.	4-7
6	FBIAS ADJU	Focus bias adjustment.	4-8
7	CPLAY MODE	Continuous playback mode.	3-7
8	CREC MODE	Continuous recording mode.	3-8
∗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 4, "Electrical adjustment".

∗The number 9~13 are not used on occasion of service. If you entered them incorrectly, press the "STOP" key immediately to exit the mode. Specially, do not use "EEP INITIAL".(E2PROM data has initialized if used it.)

7-7 Continuous Playback Mode

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

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

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

7-8 Continuous Recording Mode

1. Continuous Recording Setting		
No.	**Key**	**Display/Function**
1	Volume/ multi-control	Select [CREC MODE]
2		Load the recordable disc
3	PLAY	[CREC MID]
4	PLAY	[CREC (zzzz)] CREC address (0300h cluster=recording start point)
5	REPEAT	[h∗∗∗∗d@@@@] address
6	REPEAT	[c=xxxx a=yy] error
7	REPEAT	[CREC (zzzz)]
8	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	Volume/ multi-control	[CREC OUT]
3	PLAY	[CREC (zzzz)] CREC address (0700h cluster=recording start point) Carry out No.5 to 8 in the above table
4	PLAY	Select [CREC MID]
5	Volume/ multi-control	Select [CREC IN]
6	PLAY	[CREC (zzzz)] CREC address (0300h cluster=recording start point) Carry out No.5 to 8 in the above table
7	EJECT	Disc out

Starting address is the followings.
IN=30h cluster, MID=300h cluster, OUT=700h cluster

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

8. Electrical adjustment

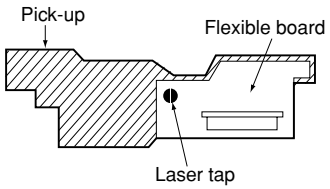
8-1 Precaution during confirmation of Laser Diode emission

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

8-2 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.



8-3 Precaution during adjustment

1) 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		
		IC7	D3	IC1,IC2,IC6
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

2) In the test mode, perform the adjustment. After adjustment is completed, cancel the test mode.
3) Perform the adjustment in the order described.
4) 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
5) 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.)

8-4 Creating the recordable continuous recording disc

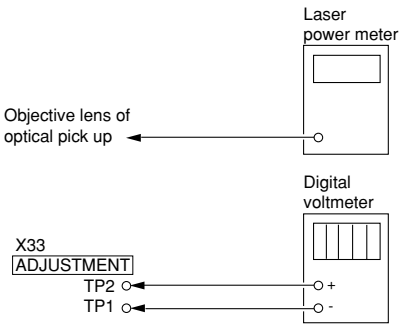
This disc is used for focus bias adjustment and error rate confirmation. How to create the recordable continuous recording disc is 3-8.

8-5 Offset Adjustment

No.	Key	Display/Function
1	Volume/multi-control	Select [TEMP ADJU]
2	PLAY	[TEMP=xx (yy)]
		(xx=compensation data, yy=setting temperature)
3	Volume/multi-control	Input "yy" with present temp..
4	PLAY	[TEMP=✻✻SA]
		[TEMP ADJU] in writing data

8-6 Laser Power Check and Adjustment

Laser power setting in playback and recording modes.
Preparation
1. Remove the MD mechanism from the unit.
2. Connect the digital voltmeter to TP1 and TP2 on X33 pcb.
3. Remove the top plate from traverse unit.
4. Remove the magnetic head.
5. Remount the MD mechanism to the unit



1. Laser Power Adjustment

No.	Key	Display/Function
1	Volume/ multi-control	[LDPWR ADJU] Load recordable disc
2	PLAY	Load the disc and lazer on ⌜a 0.9mW) $xx] read power (xx=power value)
3	EJECT	Unload the disc and laser on
4	I◄◄/►►I	Move the pickup to check the laser power with laser power meter sensor
5	Volume/ multi-control	Adjust "xx" so that the power meter shows 0.9mW.
6	PLAY	⌜a 7.0mW) $xx] writing power
7	Volume/ multi-control	Adjust "xx" so that the power meter shows 7.0mW. This adjustment should be carried out in 15 secs.
8	PLAY	Laser power off Display shows [LDPWR ADJU] after [LDPWR<$xx] to save the data in E2PROM

Start from No.2 if readjust.

2. Laser Power Check

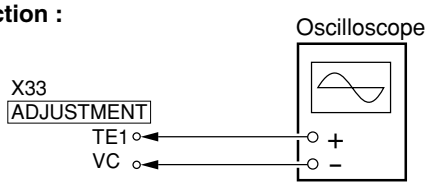
No.	Key	Display/Function
1	Volume/multi-control	[LDPWR CHEC]
2	PLAY	⌜c 0.9mW) $xx]
		(xx=0.85 to 0.95mW)
3	PLAY	⌜c 7.0mW) $xx] Laser power meter: 7.0±1.0mW✻ VOM:optical pickup indication value ±10%✻

(optical pick-up label)

In this case, Iop = 82.5 mA
Iop(mA) = Reading of digital voltmeter(mV)/1(Ω)

8-7 EF Balance(Traverse Adjustment)

Connection :



V: 0.5V/div H: 10ms/div
INPUT: DC mode

CIRCUIT DESCRIPTION

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

2. Pre Master Test Disc(TGYS-1)		
No.	**Key**	**Display/Function**
1		Load the disc(TGYS-1).
2	PLAY	[EF=$⁎⁎CD] servo is on
3	Volume/ multi-control	Adjust the waveform as follows.
4		Save the data in E2PROM. Display shows[EFB=⁎⁎xSAVE] in brief time. 「EF PHASE」
5	EJECT	Unload disc.

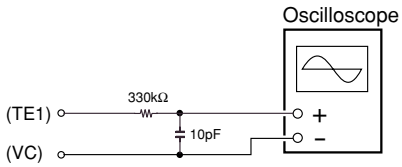
During this adjustment, the oscilloscope changes in units of about 2%. Adjust so that the waveform comes nearest to the specified value. (MO groove read power traverse adjustment)

(Traverse waveform)

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.



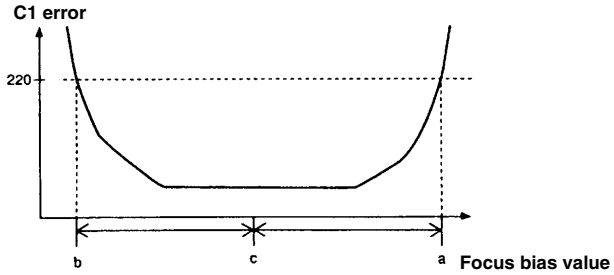
8-8 Focus Bias Adjustment

Use the special disc(continuous recorded disc)

No.	**Key**	**Display/Function**
1	Volume/multi-control	Select [FBIAS ADJU]
2		Load the disc.
3	PLAY	[a=xx yyyy/] point a (xx=focus bias, yyyy=C1error)
4	Volume/multi-control	Adjust "yyyy" to 220⁎
5	PLAY	[b=xx yyyy/] point b
6	Volume/multi-control	Adjust "yyyy" to 220⁎
7	PLAY	[xx yyyy/] point c Check "yyyy" within 50
8	PLAY	Display shows [aa bb cc(xx)] focus bias adjust (aa= point a,bb=b,cc=c)

*** Notes :**

1. 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.
2. The C1 error rate fluctuates. Therefore, perform the adjustment according to the observed mean value.



8-9 Error Rate Check

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

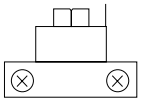
2. MO Error Rate		
No.	**Key**	**Display/Function**
1	Volume/ multi-control	[CPLAY MODE]
2		Load the recordable disc
3	PLAY	Display shows [CPLAY MID] Access end [c=xxxx a=yy] xxxx=C1 error (lower 50) yy=AIDP error(00)
4	STOP	[CPLAY MODE]
5	EJECT	Unload disc.

RXD-M33/M33MD

ADJUSTMENT

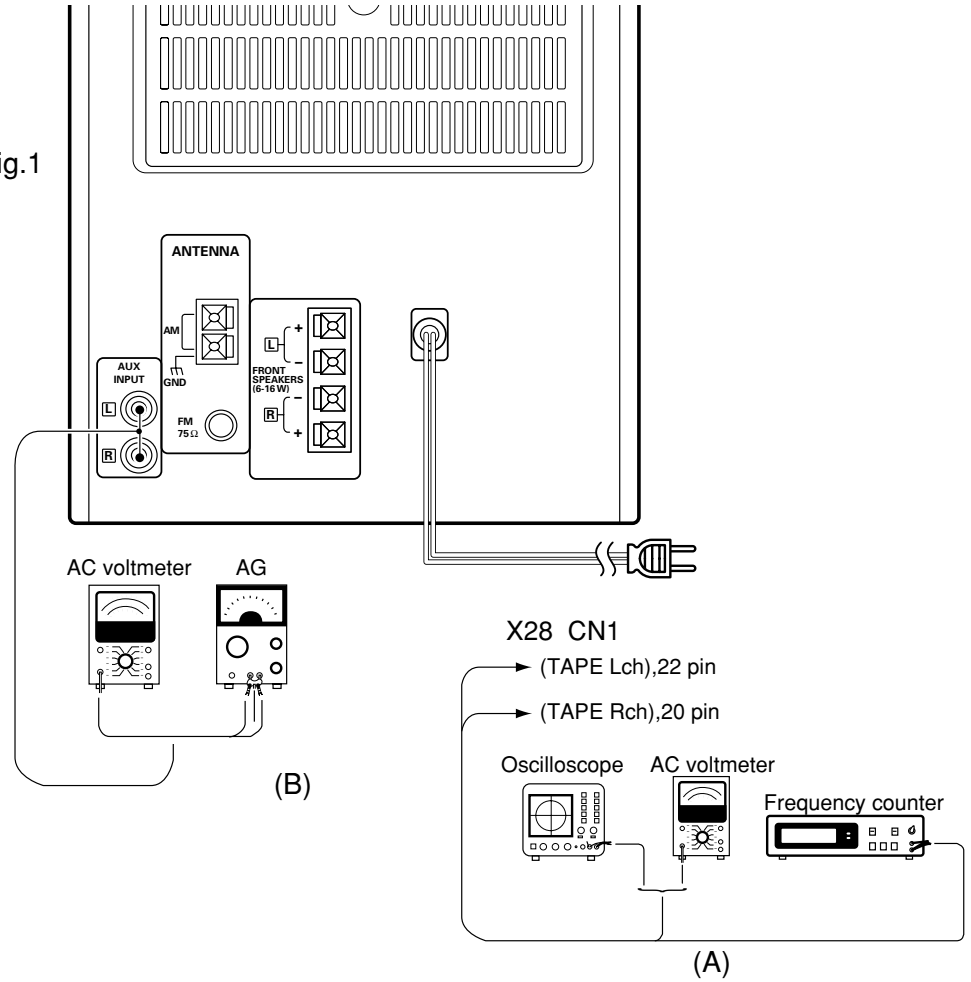
Cassette Deck adjustment

0dBs=0.775V

No	ITEM	INPUT SETTING	OUTPUT SETTING	DECK SETTING	ALIGNMENT POINT	ALIGN FOR	FIG.
Ⅰ. CASSETTE MECHANISM UNIT							
< 1 >	Demagnetization and cleaning	–	–	Demagnetization: POWER OFF 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	(A)	PLAY	 RVS FWD	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.	Fig.1
< 3 >	TAPE SPEED (NORMAL)	TCC–110 MTT–111 SCC–1727 3kHz	(A)	PLAY	Trimming pot in the motor.	Check the tape speed so that 3kHz(±2%) is obtained at the center of the tape.	Fig.1
Ⅱ. PC BOARD ADJUSTMENT							
< 1 >	BIAS CURRENT	(B) Connect the AG to jack. 400Hz: -20dBs 12.5kHz: -20dBs	(A)	REC and PLAY	VR 1 (L) VR 2 (R)	Record 400Hz and 12.5kHz alternately, and adjust the bias current adjustment potentiometer for the playback levels to become the same.	Fig.1

SYSTEM CONNECTIONS

Fig.1



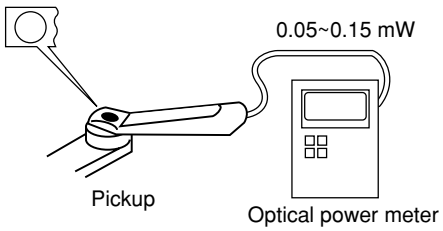
ADJUSTMENT

CD player adjustment

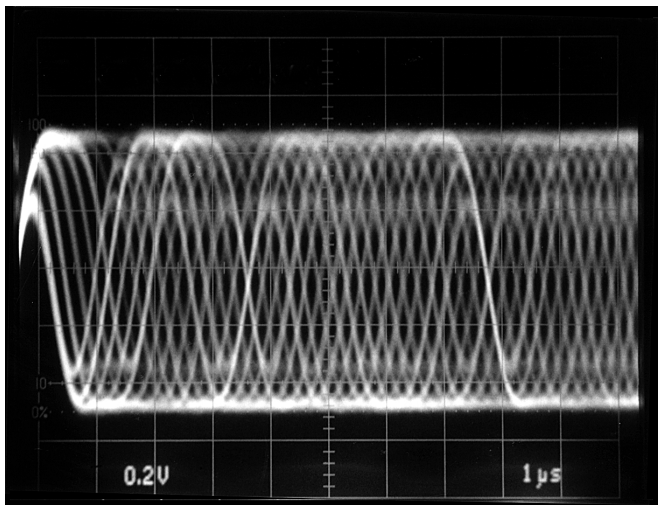
No.	ITEM	INPUT SETTING	OUTPUT SETTING	PLAYER SETTING	ALIGNMENT POINT	ALIGN FOR	FIG.
TEST MODE : While pressing the [CD PLAY/PAUSE] key, turn power on.							
1	LASER POWER	–	Set the sensor section of the optical power meter on the pickup lens.	Short circuit OPEN/CLOSE SW. Press the "PLAY" key to check 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	LASER CURRENT	Test disc Type 4	Connect the DC voltmeter to CN23(#1 and #2) in X29	Press the "PLAY" key to check that the display is "03" or "05"	–	220mV to 550mV	

Note:
Type 4disc :SONY YEDS-18 Test Disc or equivalent. (KTD-02)
LPF : Around 47kΩ + 390pF or so.

(a) Laser Power



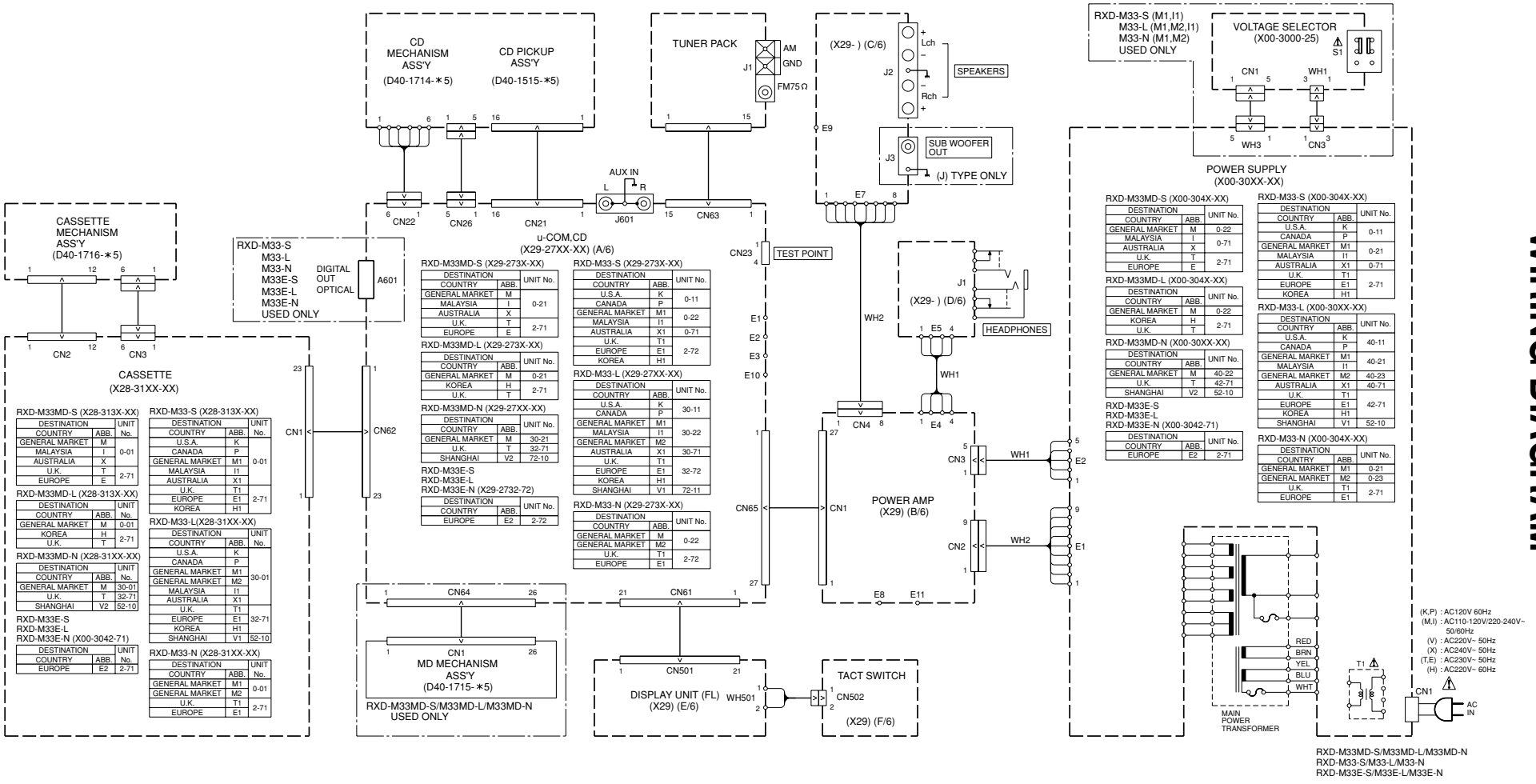
RF signal: AC coupled



- 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.

RXD-M33/M33MD

WIRING DIAGRAM



RXD-M33MD-S (X29-273X-XX)

DESTINATION		UNIT No.
COUNTRY	ABB.	
GENERAL MARKET	M	0-21
MALAYSIA	I	
AUSTRALIA	X	
U.K.	T	2-71
EUROPE	E	

RXD-M33MD-L (X29-273X-XX)

DESTINATION		UNIT No.
COUNTRY	ABB.	
GENERAL MARKET	M	0-21
KOREA	H	2-71
U.K.	T	

RXD-M33MD-N (X29-27XX-XX)

DESTINATION		UNIT No.
COUNTRY	ABB.	
GENERAL MARKET	M	30-21
U.K.	T	32-71
SHANGHAI	V2	72-10

RXD-M33E-S
RXD-M33E-L
RXD-M33E-N (X29-2732-72)

DESTINATION		UNIT No.
COUNTRY	ABB.	
EUROPE	E2	2-72

RXD-M33-S (X29-273X-XX)

DESTINATION		UNIT No.
COUNTRY	ABB.	
U.S.A.	K	0-11
CANADA	P	
GENERAL MARKET	M1	0-22
MALAYSIA	I1	
AUSTRALIA	X1	0-71
U.K.	T1	
EUROPE	E1	2-72
KOREA	H1	

RXD-M33-L (X29-27XX-XX)

DESTINATION		UNIT No.
COUNTRY	ABB.	
U.S.A.	K	30-11
CANADA	P	
GENERAL MARKET	M1	30-22
MALAYSIA	I1	
GENERAL MARKET	M2	
AUSTRALIA	X1	30-71
U.K.	T1	
EUROPE	E1	32-72
KOREA	H1	
SHANGHAI	V1	72-11

RXD-M33-N (X29-273X-XX)

DESTINATION		UNIT No.
COUNTRY	ABB.	
GENERAL MARKET	M	0-22
GENERAL MARKET	M2	
U.K.	T1	2-72
EUROPE	E1	

RXD-M33MD-S (X28-313X-XX)

DESTINATION		UNIT No.
COUNTRY	ABB.	
GENERAL MARKET	M	0-01
MALAYSIA	I	
AUSTRALIA	X	
U.K.	T	2-71
EUROPE	E	

RXD-M33MD-L (X28-313X-XX)

DESTINATION		UNIT No.
COUNTRY	ABB.	
GENERAL MARKET	M	0-01
KOREA	H	2-71
U.K.	T	

RXD-M33MD-N (X28-31XX-XX)

DESTINATION		UNIT No.
COUNTRY	ABB.	
GENERAL MARKET	M	30-01
U.K.	T	32-71
SHANGHAI	V2	52-10

RXD-M33E-S
RXD-M33E-L
RXD-M33E-N (X00-3042-71)

DESTINATION		UNIT No.
COUNTRY	ABB.	
EUROPE	E2	2-71

RXD-M33-S (X28-313X-XX)

DESTINATION		UNIT No.
COUNTRY	ABB.	
U.S.A.	K	0-01
CANADA	P	
GENERAL MARKET	M1	
MALAYSIA	I1	
AUSTRALIA	X1	
U.K.	T1	2-71
EUROPE	E1	
KOREA	H1	

RXD-M33-L(X28-31XX-XX)

DESTINATION		UNIT No.
COUNTRY	ABB.	
U.S.A.	K	30-01
CANADA	P	
GENERAL MARKET	M1	
GENERAL MARKET	M2	
MALAYSIA	I1	
AUSTRALIA	X1	
U.K.	T1	32-71
EUROPE	E1	
KOREA	H1	
SHANGHAI	V1	52-10

RXD-M33-N (X28-31XX-XX)

DESTINATION		UNIT No.
COUNTRY	ABB.	
GENERAL MARKET	M1	0-01
GENERAL MARKET	M2	
U.K.	T1	2-71
EUROPE	E1	

RXD-M33MD-S (X00-304X-XX)

DESTINATION		UNIT No.
COUNTRY	ABB.	
GENERAL MARKET	M	0-22
MALAYSIA	I	0-71
AUSTRALIA	X	
U.K.	T	2-71
EUROPE	E	

RXD-M33MD-L (X00-304X-XX)

DESTINATION		UNIT No.
COUNTRY	ABB.	
GENERAL MARKET	M	0-22
KOREA	H	2-71
U.K.	T	

RXD-M33MD-N (X00-30XX-XX)

DESTINATION		UNIT No.
COUNTRY	ABB.	
GENERAL MARKET	M	40-22
U.K.	T	42-71
SHANGHAI	V2	52-10

RXD-M33E-S
RXD-M33E-L
RXD-M33E-N (X00-3042-71)

DESTINATION		UNIT No.
COUNTRY	ABB.	
EUROPE	E2	2-71

RXD-M33-S (X00-304X-XX)

DESTINATION		UNIT No.
COUNTRY	ABB.	
U.S.A.	K	0-11
CANADA	P	
GENERAL MARKET	M1	0-21
MALAYSIA	I1	
AUSTRALIA	X1	0-71
U.K.	T1	
EUROPE	E1	2-71
KOREA	H1	

RXD-M33-L (X00-30XX-XX)

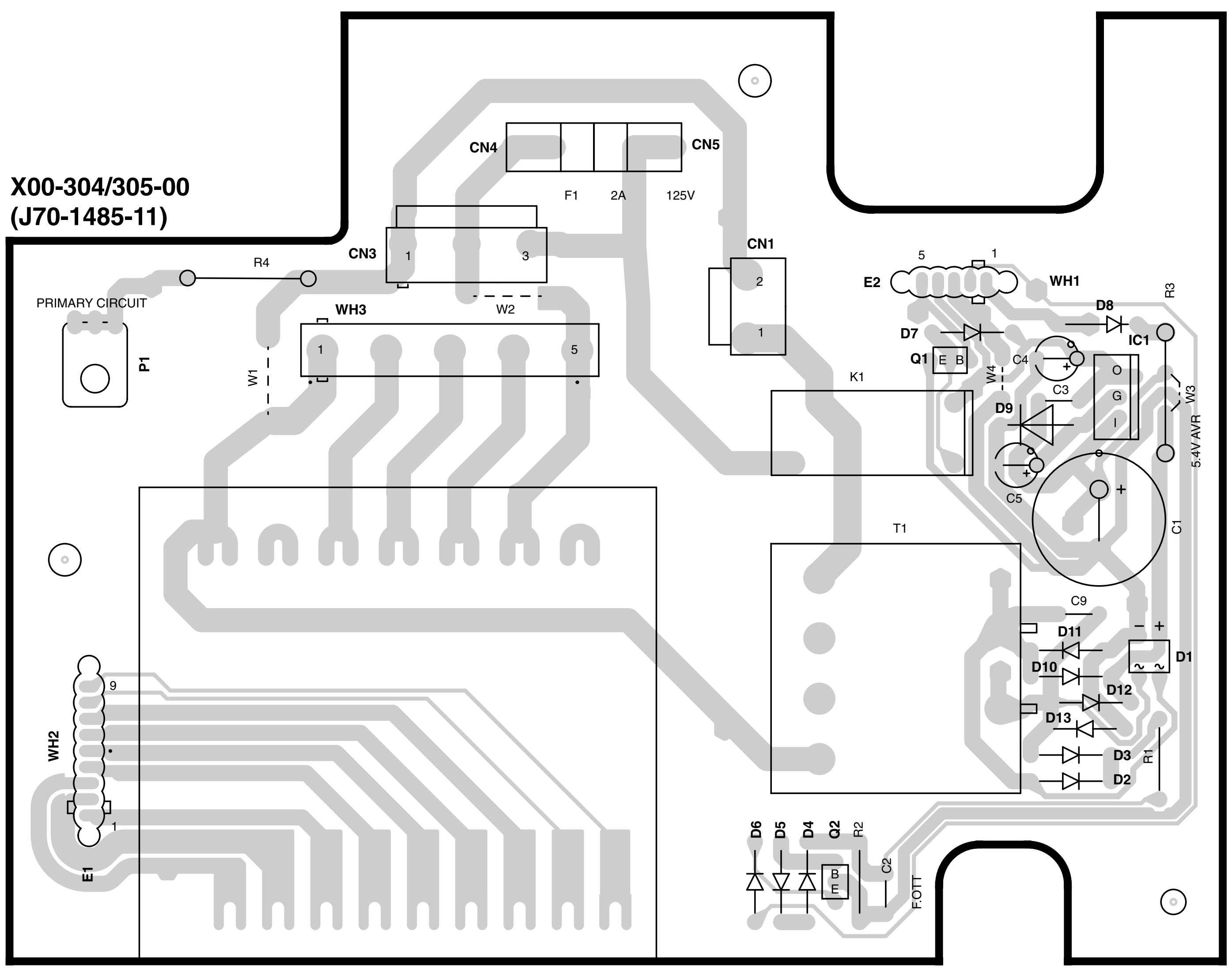
DESTINATION		UNIT No.
COUNTRY	ABB.	
U.S.A.	K	40-11
CANADA	P	
GENERAL MARKET	M1	40-21
MALAYSIA	I1	
GENERAL MARKET	M2	40-23
AUSTRALIA	X1	40-71
U.K.	T1	
EUROPE	E1	42-71
KOREA	H1	
SHANGHAI	V1	52-10

RXD-M33-N (X00-304X-XX)

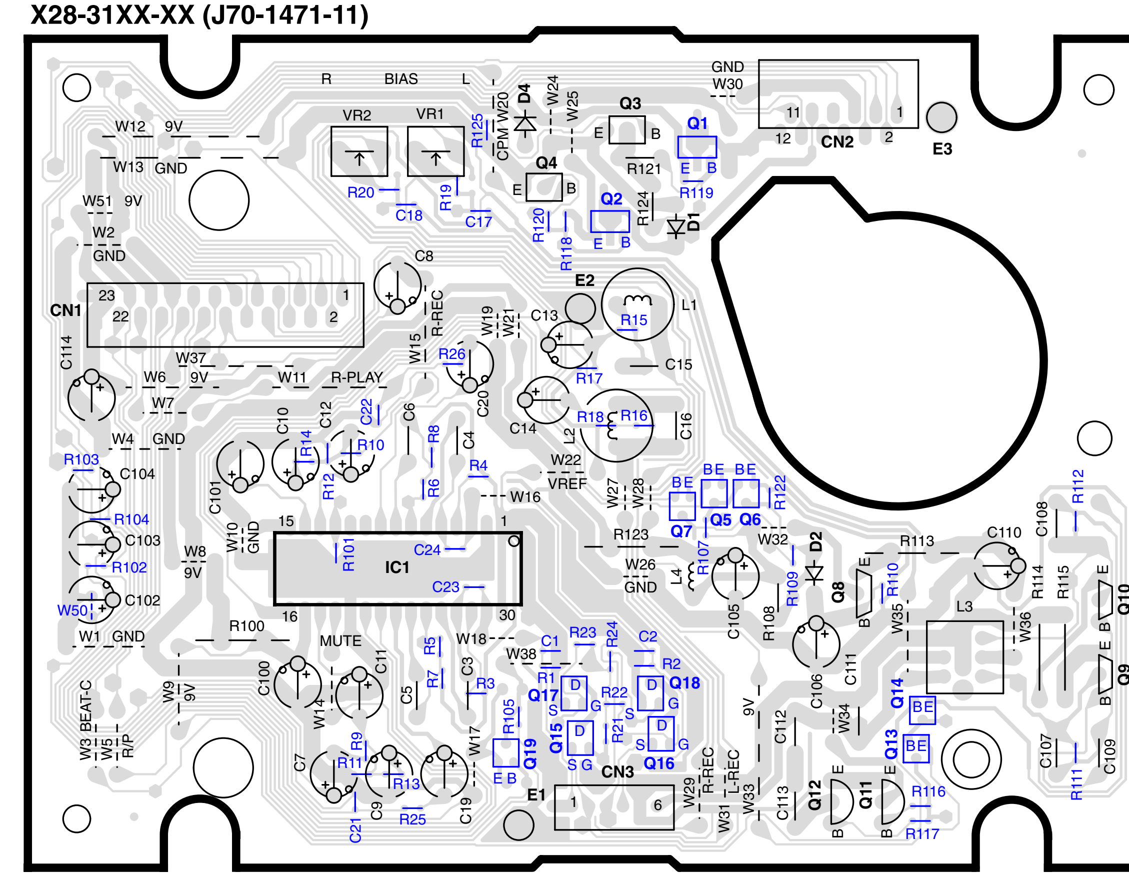
DESTINATION		UNIT No.
COUNTRY	ABB.	
GENERAL MARKET	M1	0-21
GENERAL MARKET	M2	0-23
U.K.	T1	2-71
EUROPE	E1	

PC BOARD (Component side view)

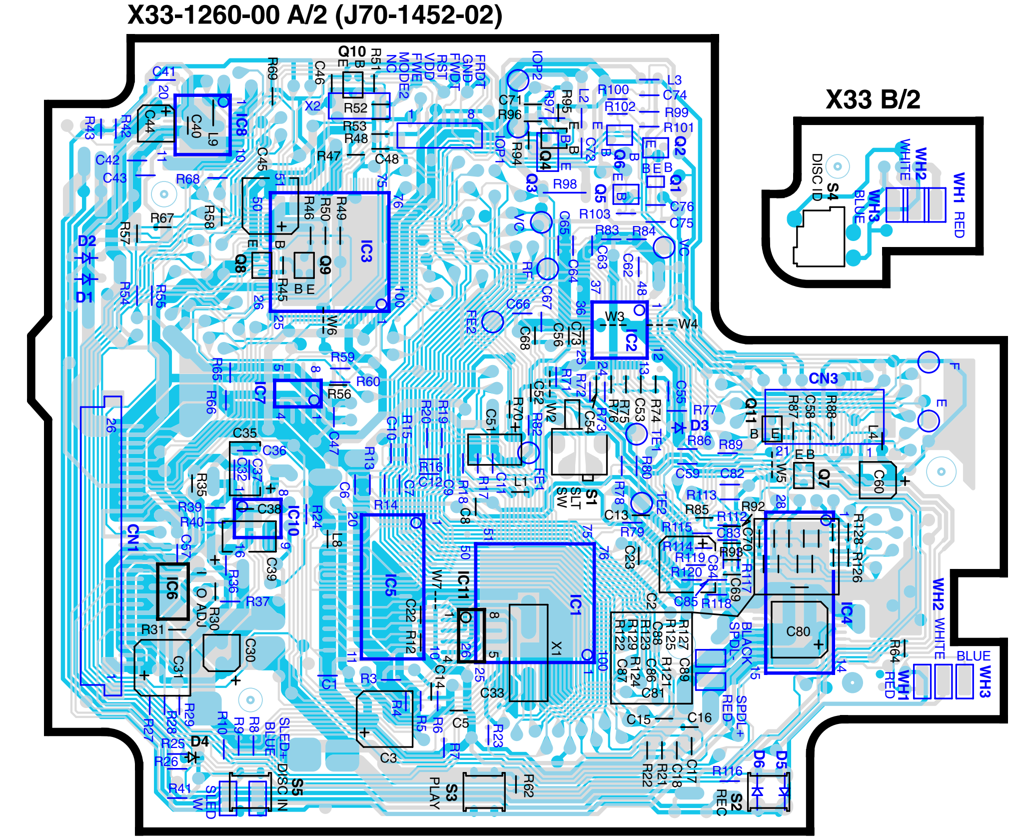
X00-304/305-00 (J70-1485-11)



X28-31XX-XX (J70-1471-11)

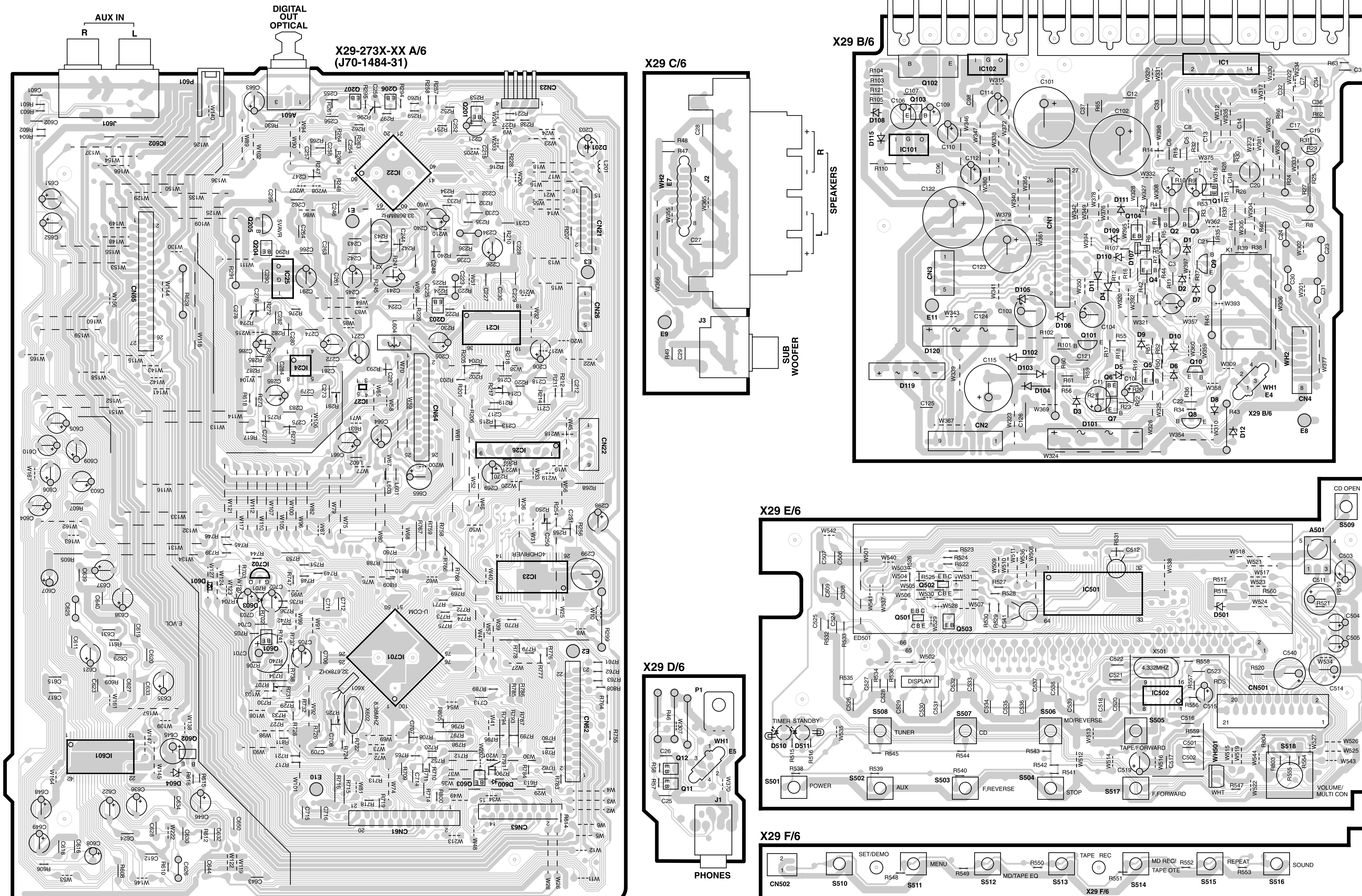


X33-1260-00 A/2 (J70-1452-02)



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

PC BOARD (Component side view)



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

(X33-1260-00) (A/2)

IC1	: CXD2662R	Q1	: UMW1N
IC2	: CXA2523AR ✱ or CXA2523AR	Q2,9	: 2SA1576A(R,S)
IC3	: HD6432227N14FA	Q3	: 2SB798-DL
IC4	: BA5984FP	Q4,11	: DTA144EUA
IC5	: LC32S4400T-10	Q5,6	: DTC114YUA
IC6	: RC1117ST	Q7	: DTA124EUA
IC7	: S-24C02BFJ-TB or BR24C02F	Q8,10	: DTC124EUA
IC8	: BD7910FV	D1,2	: FS1J6TP
IC10	: AK4550VT	D3,4	: MA111
IC11	: C6006AZ	D5,6	: S1B

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

ADJUSTMENT

IC5 4M DRAM SHOCK PROOF

CN3

OPTICAL PICKUP BLOCK (KMS-260B)

IC2 RF AMP

IC1 ACIRIC ATRAC EN/DECODER

EFM/ACIRC ENCODER/DECODER

SHOCK RESISTANT MEMORY CONTROLLER

ATRAC ENCODER/DECODER BLOCK

CLOCK GENERATOR

SAMPLING RATE CONVERTER

DIGITAL I/F

SUBCODE PROCESSOR

CPU I/F BLOCK

MONITOR CONTROL BLOCK

SPINDLE SERVO

PWM GENERATOR

AUTO SEQUENCER

SERVO DSP

ADIP DECODER

PLL

ANALOG MUX

A/D CONVERTER

APC

LD ON/OFF

LD CHANGE -OVER

IC8 HEAD DRIVER

DIGITAL REC

IC11 CLOCK GENERATOR 90.3168MHz

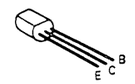
to HEAD

(X33-1260-00) (A/2)

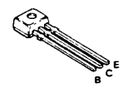
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock,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

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

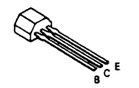
2SA1286-T11
2SA1534A
2SC2878
2SC3940A



2SA1175
2SC2785

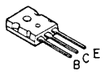


DTC124ESA
DTC143TSA
KRC103M

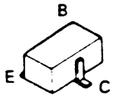


2SD1664

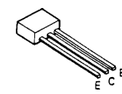
2SD1963



DTA144EUA
DTC114YUA
UN5219
2SA1576A
2SB1218A
2SD1819A



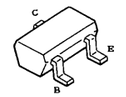
UN4212
UN4216
UN4219



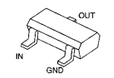
KTC3205

2SB798-DL

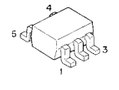
2SC4081



DTA124EUA
DTC124EUA



UMW1N



RXD-M33MD-S/M33MD-L/M33MD-N (1/4)

Y39-3862-70

RXD-M33/M33MD

KENWOOD

(X28-31XX-XX)

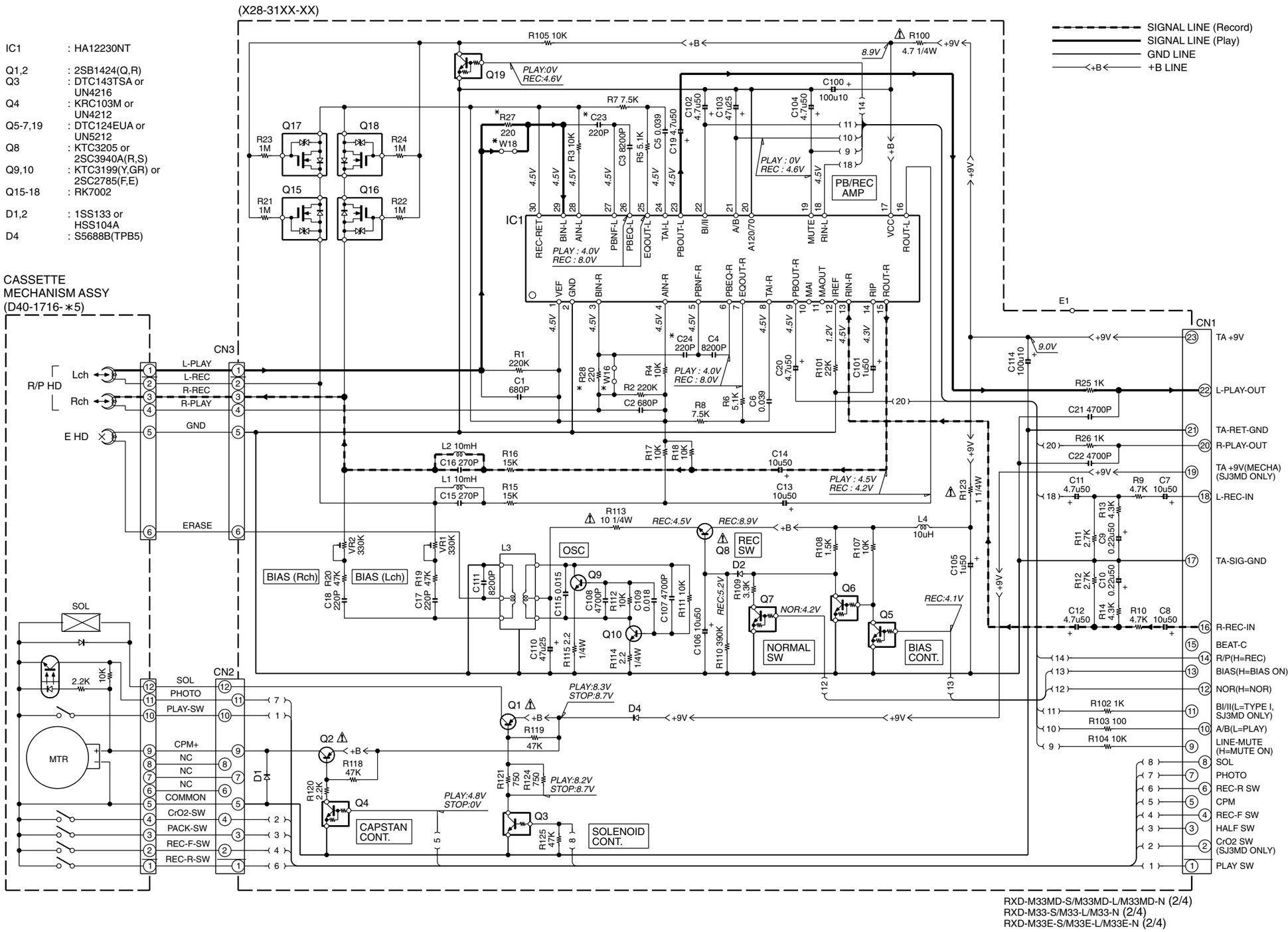
IC1 : HA12230NT

Q1,2 : 2SB1424(Q,R)
Q3 : DTC143TSA or UN4216
Q4 : KRC103M or UN4212
Q5-7,19 : DTC124EUA or UN5212
Q8 : KTC3205 or 2SC3940A(R,S)
Q9,10 : KTC3199(Y,GR) or 2SC2785(F,E)
Q15-18 : RK7002

D1,2 : 1SS133 or HSS104A
D4 : S5688B(TPB5)

CASSETTE MECHANISM ASSY (D40-1716-∗5)

SIGNAL LINE (Record)
SIGNAL LINE (Play)
GND LINE
+B LINE



RXD-M33MD-S/M33MD-L/M33MD-N (2/4)
RXD-M33-S/M33-L/M33-N (2/4)
RXD-M33E-S/M33E-L/M33E-N (2/4)

RXD-M33MD-S (X28-313X-XX)

DESTINATION		UNIT No.	C23, 24	R27, 28	W16, 18
COUNTRY	ABB.				
GENERAL MARKET	M	0-01	NO	NO	YES
MALAYSIA	I				
AUSTRALIA	X				
U.K.	T	2-71	YES	YES	NO
EUROPE	E				

RXD-M33MD-L (X28-313X-XX)

DESTINATION		UNIT No.	C23, 24	R27, 28	W16, 18
COUNTRY	ABB.				
GENERAL MARKET	M	0-01	NO	NO	YES
KOREA	H	2-71	YES	YES	NO
U.K.	T				

RXD-M33MD-N (X28-31XX-XX)

DESTINATION		UNIT No.	C23, 24	R27, 28	W16, 18
COUNTRY	ABB.				
GENERAL MARKET	M	30-01	NO	NO	YES
U.K.	T	32-71	YES	YES	NO
SHANGHAI	V2	52-10	NO	NO	YES

RXD-M33-S (X28-313X-XX)

DESTINATION		UNIT No.	C23, 24	R27, 28	W16, 18
COUNTRY	ABB.				
U.S.A.	K	0-01	NO	NO	YES
CANADA	P				
GENERAL MARKET	M1				
MALAYSIA	I1				
AUSTRALIA	X1				
U.K.	T1	2-71	YES	YES	NO
EUROPE	E1				
KOREA	H1				

RXD-M33-L(X28-31XX-XX)

DESTINATION		UNIT No.	C23, 24	R27, 28	W16, 18
COUNTRY	ABB.				
U.S.A.	K	30-01	NO	NO	YES
CANADA	P				
GENERAL MARKET	M1				
GENERAL MARKET	M2				
MALAYSIA	I1				
AUSTRALIA	X1				
U.K.	T1	32-71	YES	YES	NO
EUROPE	E1				
KOREA	H1				
SHANGHAI	V1	52-10	NO	NO	YES

RXD-M33-N (X28-31XX-XX)

DESTINATION		UNIT No.	C23, 24	R27, 28	W16, 18
COUNTRY	ABB.				
GENERAL MARKET	M1	0-01	NO	NO	YES
GENERAL MARKET	M2				
U.K.	T1	2-71	YES	YES	NO
EUROPE	E2				

RXD-M33E-S/M33E-L/M33E-N (X28-3132-71)

DESTINATION		UNIT No.	C23, 24	R27, 28	W16, 18
COUNTRY	ABB.				
EUROPE	E2	2-71	YES	YES	NO

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

The DC voltage is an actual reading measured with a high impedance type voltmeter with a cassette loaded at playback mode. The measurement value may vary depending on the measuring instruments used or on the product. Bias circuit DC voltage is measured while in the record mode.

Y39-3862-70

RXD-M33/M33MD

KENWOOD

MD MECHA. CN1 1/4 A

CD MECHANISM ASS'Y (D40-1714- ✱5)

TRAVERSE UNIT (D40-1515-05)

DISC MOTOR SPD+ SPD- SLED MOTOR SLD+ SLD- GND SLT.SW

⚠ PICKUP (KSS-213C)

TRACKING COIL FOCUSING COIL MON LD SHORT LAND FCS- TRK- TRK+ FCS+ PD -VPD LD GND F C B A D E VCC VC +5V +2.5V

LOADING MOTOR OPEN/CLOSE SW LO+ LO- GND OPEN CLOSE

(X29-273X-XX) (A/6)

CN23 RF VC VCC LD TEST POINT

CN21 VC VCC E C1 C2 A B F LD GND LD VR MON FCS(+) TRK(-) TRK(+) FCS(-)

CN22 DM+ DM- SLM+ SLM- SW-GND SLT-SW

IC21 (BOTTOM VIEW) CD RF IC

PDAC PDBD PDF PDE PDER PDFR TBAL FBAL FE- FEOUT TE- TEOUT CROSS TEBPF VDET LDOFF VREF ENV PD LD LDON LDP VCC RF- RFOUT RFIN CAGC ARF CENV CEA CSBDO BDO CSBRT OFTR RFDET GND

LD ON/OFF CONT.

IC22 (BOTTOM VIEW) DSP

LDON BDO RFDET TRCRS OFT VDET RFENV TE FE TBAL FBAL VREF FOD TRD KICK ECS ECM PC TVD TRV PMCK SMCK RST STAT DMUTE SUBQ SOCK BLKCK TLOCK FLOCK SENSE MLD MDATA MCLK TX DVSS1 DVDD1 SRDATA LRCK BCLK SSEL PLLF2 PLAY WVEL ARF IREF DRF DSLF PLLF VCOF AVDD2 AVSS2 EFM/CK384 PCK/DSLB VCOF2 SUBC SBCK XVSS X1 X2 XVDD BBYTCK CLDCK FCLK IPFLAG FLAG CLVS CRC DEMPH RESY IOSEL TEST AVDD1 OUTL AVSS1 OUTR RSEL CSEL PSEL MSEL SSEL

DSP RESET

IC23 (BOTTOM VIEW) 4ch BTL DRIVER

IN3 IN4 VREF SVCC STANDBY PGND2 PVCC2 VO4+ VO4- VO3+ VO3- IN2 PC2 IN1 PC1 RSTOUT PGND1 PVCC1 VO1- VO1+ VO2- VO2+

IC26 CD MECHA. DRIVER

IN2 VCC OUT2 NC GND VS OUT1 VREF IN1

CN26 CLOSE OPEN GND LO- LO+

TUNER PACK J1 AM GND FM75Ω

STEREO SD MUTE TU OUT R GND TU OUT L DET OUT VCC NC S-LEVEL GND PLL DO PLL CLK PLL DAT PLL CE

A601 DIGITAL OUT OPTICAL IN VCC GND

X28-CN1 2/4 B

IC25 OUT IN GND +5V AVR

CD/DSP POWER ON/OFF CONT.

Q205 Q204

AUX IN L R J601

MD DIG. IN

MD ANALOG OUT(Lch)

IC24 (2/2) CD OPE AMP IC24 (1/2)

LEVEL SHIFT (5V → 3.5V) IC27 VCC GND

CN63 STEREO SD MUTE TU OUT R GND TU OUT L DET OUT VCC NC S-LEVEL GND PLL DO PLL CLK PLL DAT PLL CE

R-6

BE-6

(X29-273X-XX) (A/6)

CN64 CN65 P601 E10 E3 E2 E1

AINL DGND AINR MECHA RST CE BACKON CRXD CTXD BACKUPV +3.3V HGND H+5V

9V MGND TA RGND TA 9V TU RGND TU 9V VOL 9V VOL OUT R CD 9V VOL AGND VOL OUT L CD 9V 5V MGND 5V RGND MD 5V F.OFF NC BU 5.4V POWER RE. -35V FL AC FL AC SP RE. A. MUTE

NO USE PROTECT NC H/P IN

MUTE ON : 0V OFF : 4.8V

D601 IC702 RESET IC RESET Q601 D603

STAND BY : 4.9V POWER ON : 4.8V

MD ANALOG REC IN(Rch)

Q602 +5.0V AVR

IC601 SURROUND CONTROLLER (BOTTOM VIEW)

SURROUND uCOM INTERFACE BASS MID TRE

Q603 TUNING MUTE CONT.

TUNER : 0V OTHERS : 4.8V

TUNER CONTROL

CD CONTROL

DECK CONTROL

*IC701 (BOTTOM VIEW) u-COM

X602 8.38MHz X601 32.768KHz

TAPE REC (Rch)

CN62 CN61

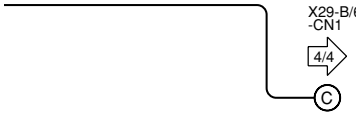
TA +8V (SIGNAL) L PLAY OUT TA MGND R PLAY OUT TA -8V (MOTOR) L REC IN BIAS GND R REC IN BEAT C R/P BIAS NOR B I/II A/B LINE MUTE SOL PHOTO REC R SW CPM REC F SW HALF SW CrO2 SW PLAY SW

GND VCC ENC 1 ENC 2 KEY2 KEY1 REM +5V REM FL RST FL CE FL CLK FL SDATA VP F2 F1 RDS CLK RDS DATA DET OUT LED POWER LED STBY NC

AC-5

BV-4

RXD-M33MD-S/M33MD-L/M33MD-N (3/4)
RXD-M33-S/M33-L/M33-N (3/4)
RXD-M33E-S/M33E-L/M33E-N (3/4)



RXD-M33MD-S (X29-273X-XX)

DESTINATION		UNIT No.	Ⓒ	Ⓓ	C224,225,297,607,608,611, 612,615,616,651,652	C242, 243	C650	C667, 668,717	IC27	IC701	Q203	R210,225,226,293, 605,606,726	R242	R710	R711	R712, 800	W207	W208	X21
COUNTRY	ABB.																		
GENERAL MARKET	M	0-21	NO	YES	YES	10P	NO	NO	YES	MN101C49KLB	YES	YES	470	22K	YES	NO	NO	YES	L77-2338-05
MALAYSIA	I																		
AUSTRALIA	X																		
U.K.	T	2-71					YES							10K	NO	YES			
EUROPE	E																		

RXD-M33MD-L (X29-273X-XX)

DESTINATION		UNIT No.	Ⓒ	Ⓓ	C224,225,297,607,608,611, 612,615,616,651,652	C242, 243	C650	C667, 668,717	IC27	IC701	Q203	R210,225,226,293, 605,606,726	R242	R710	R711	R712, 800	W207	W208	X21
COUNTRY	ABB.																		
GENERAL MARKET	M	0-21	NO	YES	YES	10P	NO	NO	YES	MN101C49KLB	YES	YES	470	22K	YES	NO	NO	YES	L77-2338-05
KOREA	H																		
U.K.	T	2-71					YES							10K	NO	YES			

RXD-M33MD-N (X29-27XX-XX)

DESTINATION		UNIT No.	Ⓒ	Ⓓ	C224,225,297,607,608,611, 612,615,616,651,652	C242, 243	C650	C667, 668,717	IC27	IC701	Q203	R210,225,226,293, 605,606,726	R242	R710	R711	R712, 800	W207	W208	X21
COUNTRY	ABB.																		
GENERAL MARKET	M	30-21	NO	YES	YES	10P	NO	NO	YES	MN101C49KLB	YES	YES	470	22K	YES	NO	NO	YES	L77-2338-05
U.K.	T	32-71					YES							10K	NO	YES			
SHANGHAI	V2	72-10					NO							22K	YES	NO			

RXD-M33-S (X29-273X-XX)

DESTINATION		UNIT No.	Ⓒ	Ⓓ	C224,225,297,607,608,611, 612,615,616,651,652	C242, 243	C650, 667,668	C717	IC27	IC701	Q203	R210,225,226,293, 605,606,726	R242	R710	R711	R712, 800	W207	W208	X21
COUNTRY	ABB.																		
U.S.A.	K	0-11	YES	NO	NO	56P	NO	YES	NO	MN101C49HLC	NO	NO	120	6.8K	YES	NO	YES	NO	L77-2190-05
CANADA	P																		
GENERAL MARKET	M1	0-22						NO						22K					
MALAYSIA	I1																		
AUSTRALIA	X1	0-71												39K					
U.K.	T1	2-72					YES							10K	NO	YES			
EUROPE	E1																		
KOREA	H1																		

RXD-M33-L (X29-27XX-XX)

DESTINATION		UNIT No.	Ⓒ	Ⓓ	C224,225,297,607,608,611, 612,615,616,651,652	C242, 243	C650, 667,668	C717	IC27	IC701	Q203	R210,225,226,293, 605,606,726	R242	R710	R711	R712, 800	W207	W208	X21
COUNTRY	ABB.																		
U.S.A.	K	30-11	YES	NO	NO	56P	NO	YES	NO	MN101C49HLC	NO	NO	120	6.8K	YES	NO	YES	NO	L77-2190-05
CANADA	P																		
GENERAL MARKET	M1	30-22						NO						22K					
MALAYSIA	I1																		
GENERAL MARKET	M2																		
AUSTRALIA	X1	30-71												39K					
U.K.	T1	32-72					YES							10K	NO	YES			
EUROPE	E1																		
KOREA	H1																		
SHANGHAI	V1	72-11					NO							22K	YES	NO			

RXD-M33-N (X29-273X-XX)

DESTINATION		UNIT No.	Ⓒ	Ⓓ	C224,225,297,607,608,611, 612,615,616,651,652,717	C242, 243	C650, 667,668	IC27	IC701	Q203	R210,225,226,293, 605,606,726	R242	R710	R711	R712, 800	W207	W208	X21
COUNTRY	ABB.																	
GENERAL MARKET	M1	0-22	YES	NO	NO	56P	NO	NO	MN101C49HLC	NO	NO	120	22K	YES	NO	YES	NO	L77-2190-05
GENERAL MARKET	M2																	
U.K.	T1	2-72					YES						10K	NO	YES			
EUROPE	E1																	

RXD-M33E-S/M33E-L/M33E-N (X29-2732-72)

DESTINATION		UNIT No.	Ⓒ	Ⓓ	C224,225,297,607,608,611, 612,615,616,651,652,717	C242, 243	C650, 667,668	IC27	IC701	Q203	R210,225,226,293, 605,606,726	R242	R710	R711	R712, 800	W207	W208	X21
COUNTRY	ABB.																	
EUROPE	E2	2-72	YES	NO	NO	56P	YES	NO	MN101C49HLC	NO	NO	120	10K	NO	YES	YES	NO	L77-2190-05

IC21 : AN8806SBM
IC22 : MN662748RPMFA
IC23 : AN4801SB-E1
IC24 : NJM4565M
IC25 : TA7805SB
IC26 : TA8409S
IC27 : HD74LV1G08A
IC601 : M61510FP
IC701 : ⁎
IC702 : S-80840ANY

Q201,206 : 2SA1577(Q,R)
Q203,207,601 : 2SC4081(R,S) or 2SD1819A(Q,R)
Q204 : UN5212 or DTC124EUA
Q205 : 2SA1286-T11
Q602 : 2SD1963(R,S) or 2SD1664(Q,R)
Q603 : UN5219 or DTC113ZUA

D201,603 : MA111
D601 : 1SS402
D604 : MTZJ5.6(B) or HZS5.6N(B) or RD5.6ES(B)

RECRDING LINE
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). ⚠ 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 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.

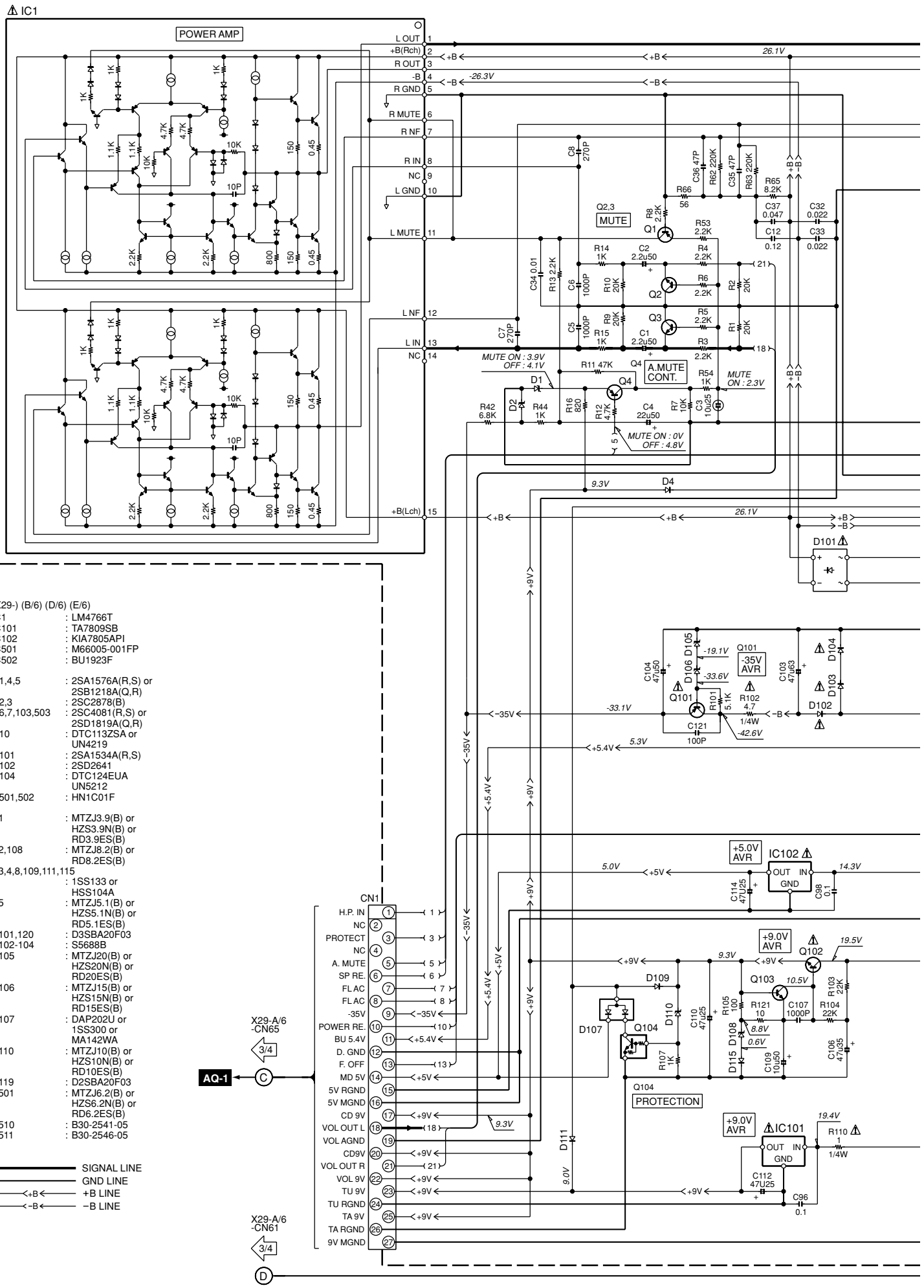
MODE	CARRIER	MODULATION		ANT INPUT
		FREQUENCY	DEVIATION	
FM	98MHz	1kHz	STEREO 67.5kHz 7.5kHz(Pilot)	60dB
AM	1000(999)kHz	400Hz	MONO 30% MOD	60dB

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.

RXD-M33/M33MD

KENWOOD

(X29-) (B/6)



(X29-) (B/6) (D/6) (E/6)

IC1	: LM4766T
IC101	: TA7809SB
IC102	: KIA7805API
IC501	: M66005-001FP
IC502	: BU1923F
Q1,4,5	: 2SA1576A(R,S) or 2SB1218A(Q,R)
Q2,3	: 2SC2878(B)
Q6,7,103,503	: 2SC4081(R,S) or 2SD1819A(Q,R)
Q10	: DTC113ZSA or UN4219
Q101	: 2SA1534A(R,S)
Q102	: 2SD2641
Q104	: DTC124EUA UN5212
Q501,502	: HN1C01F
D1	: MTZJ3.9(B) or HZS3.9N(B) or RD3.9ES(B)
D2,108	: MTZJ8.2(B) or RD8.2ES(B)
D3,4,8,109,111,115	: 1SS133 or HSS104A
D5	: MTZJ5.1(B) or HZS5.1N(B) or RD5.1ES(B)
D101,120	: D3SBA20F03
D102-104	: S5688B
D105	: MTZJ20(B) or HZS20N(B) or RD20ES(B)
D106	: MTZJ15(B) or HZS15N(B) or RD15ES(B)
D107	: DAP202U or 1SS300 or MA142WA
D110	: MTZJ10(B) or HZS10N(B) or RD10ES(B)
D119	: D2SBA20F03
D501	: MTZJ6.2(B) or HZS6.2N(B) or RD6.2ES(B)
D510	: B30-2541-05
D511	: B30-2546-05

SIGNAL LINE
GND LINE
+B LINE
−B LINE

(X29-) (B/6)

(X29-) (D/6)

(X29-) (C/6)

(X29-) (E/6)

(6G-16G)

(2G,3G)

ED501(HNA-16MM30T)

1G 2G 3G

PGM S1 S2 FM AM PM

S3 ONE

S4 REPEAT

S5 RANDOM

S6 S7

LOUD

EX.BASS

TRACK NO.

TOTAL AUTO TUNED

6G 7G 8G 9G 10G 11G 12G

SP.RELAY

SP.RELAY DRIVER

PROTECTION

MUTE

HEADPHONES

SPEAKERS

Lch Rch

USED RXD-M33(M1,M2,I1) TYPE

(X00-3000-25)

(X00-30XX-XX)

POWER ON : 3.9V

PRIMARY RELAY CONT.

+5.4V AVR

IC1 : BA05T

Q1 : UN4219 or DTC113ZSA

Q2 : 2SA1175(F,E) or 2SA933AS(Q,R)

D1 : S1ZB20(4101)

D2-7,10-13 : 1SS133 or HSS104A

D8 : S5688B

D9 : RB721Q

(K,P) : AC120V 60Hz

(M,I) : AC110-120V/220-240V~ 50/60Hz

(V) : AC220V~ 50Hz

(X) : AC240V~ 50Hz

(T,E) : AC230V~ 50Hz

(H) : AC220V~ 60Hz

MAIN POWER TRANSFORMER

IC502 (BOTTOM VIEW)

RDS DEMODULATOR

FL GRID DRIVER

IC501 FL DRIVER (BOTTOM VIEW)

S517 FAST FORWARD

S509 CD OPEN

S508 TUNER

S507 CD

S506 MD/ REVERSE

S505 TAPE/ FORWARD

S504 STOP

S503 FAST REVERSE

(X29-) (F/6)

S510 SET/ DEMO

S511 MENU

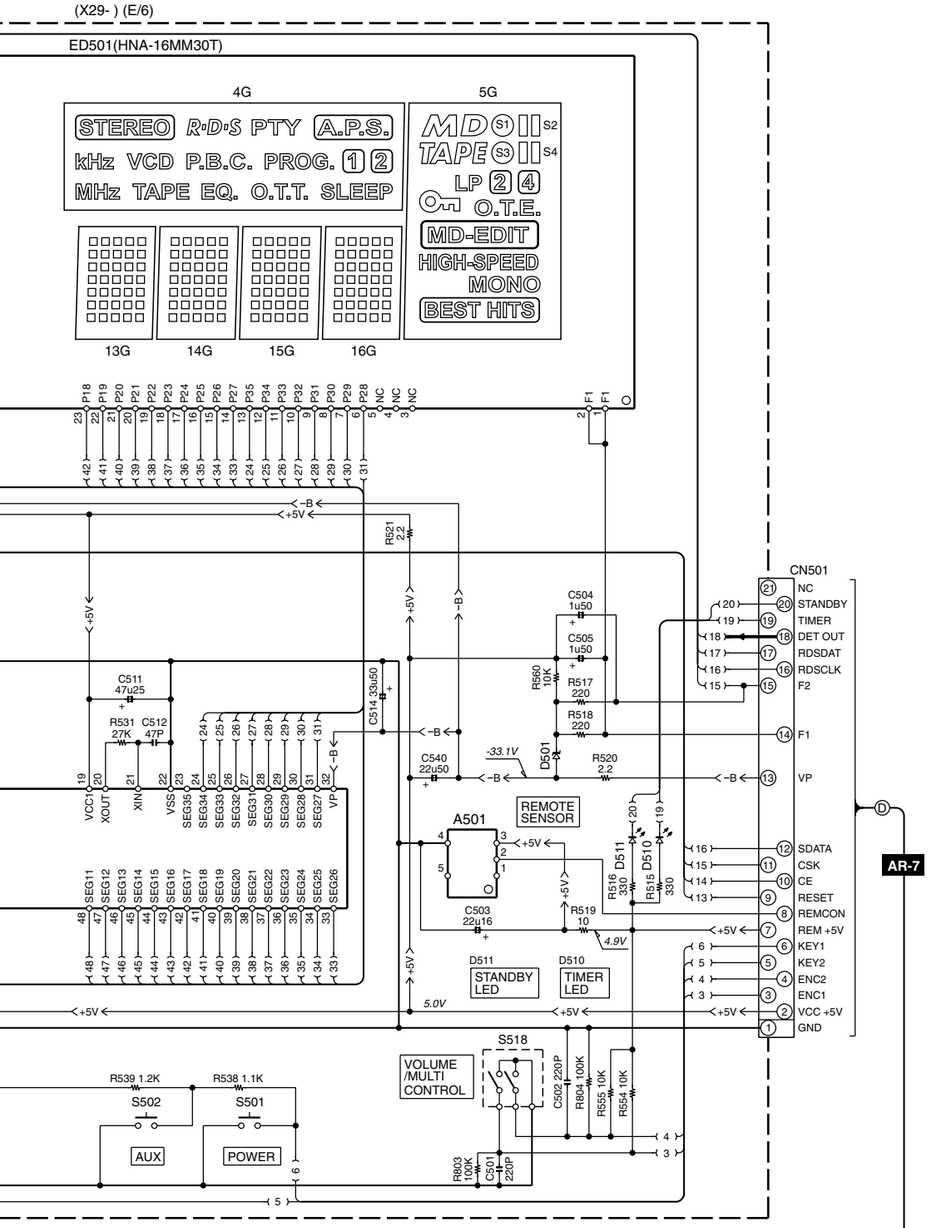
S512 MD/ TAPE EQ

S513 TAPE REC

S514 MD REC/ TAPE OTE

S515 REPEAT

S516 SOUND



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.

RXD-M33MD-S (X29-273X-XX)

DESTINATION		UNIT No.	Ⓐ	C23,30	C24,31	D9,10	R43	W301,302
COUNTRY	ABB.							
GENERAL MARKET	M	0-21	NO	0.68	YES	NO	330	NO
MALAYSIA	I							
AUSTRALIA	X							
U.K.	T	2-71	YES				390	
EUROPE	E							

RXD-M33MD-L (X29-273X-XX)

DESTINATION		UNIT No.	Ⓐ	C23,30	C24,31	D9,10	R43	W301,302
COUNTRY	ABB.							
GENERAL MARKET	M	0-21	NO	0.68	YES	NO	330	NO
KOREA	H	2-71	YES				390	
U.K.	T							

RXD-M33MD-N (X29-27XX-XX)

DESTINATION		UNIT No.	Ⓐ	C23,30	C24,31	D9,10	R43	W301,302
COUNTRY	ABB.							
GENERAL MARKET	M	30-21	NO	0.68	YES	NO	330	NO
U.K.	T	32-71	YES				390	
SHANGHAI	V2	72-10	NO				330	

RXD-M33-S (X29-273X-XX)

DESTINATION		UNIT No.	Ⓐ	C23,30	C24,31	D9,10	R43	W301,302
COUNTRY	ABB.							
U.S.A.	K	0-11	NO	0.33	NO	NO	390	YES
CANADA	P							
GENERAL MARKET	M1	0-22		0.68	YES		330	NO
MALAYSIA	I1							
AUSTRALIA	X1	0-71					390	
U.K.	T1							
EUROPE	E1	2-72	YES					
KOREA	H1							

RXD-M33-L (X29-27XX-XX)

DESTINATION		UNIT No.	Ⓐ	C23,30	C24,31	D9,10	R43	W301,302
COUNTRY	ABB.							
U.S.A.	K	30-11	NO	0.33	NO	NO	390	YES
CANADA	P							
GENERAL MARKET	M1	30-22		0.68	YES		330	NO
MALAYSIA	I1							
GENERAL MARKET	M2							
AUSTRALIA	X1	30-71					390	
U.K.	T1							
EUROPE	E1	32-72	YES					
KOREA	H1							
SHANGHAI	V1	72-11	NO				330	

RXD-M33-N (X29-273X-XX)

DESTINATION		UNIT No.	Ⓐ	C23,30	C24,31	D9,10	R43	W301,302
COUNTRY	ABB.							
GENERAL MARKET	M1	0-22	NO	0.68	YES	NO	330	NO
GENERAL MARKET	M2							
U.K.	T1	2-72	YES				390	
EUROPE	E1							

RXD-M33E-S/M33E-L/M33E-N (X29-273X-XX)

DESTINATION		UNIT No.	Ⓐ	C23,30	C24,31	D9,10	R43	W301,302
COUNTRY	ABB.							
EUROPE	E2	2-72	YES	0.68	YES	NO	390	NO

RXD-M33MD-S (X00-304X-XX)

DESTINATION		UNIT No.	C3	C10	CN3	D1	D10-13	F1	P1	R1	R3	R4	T1	W1,2	W5	WH3
COUNTRY	ABB.															
GENERAL MARKET	M	0-22	YES	NO	NO	NO	YES	T1AL 250V	NO	10K	82 2W	NO	L07-2858	YES	NO	NO
MALAYSIA	I	0-71														
AUSTRALIA	X															
U.K.	T	2-71														
EUROPE	E															

RXD-M33MD-L (X00-304X-XX)

DESTINATION		UNIT No.	C3	C10	CN3	D1	D10-13	F1	P1	R1	R3	R4	T1	W1,2	W5	WH3
COUNTRY	ABB.															
GENERAL MARKET	M	0-22	YES	NO	NO	NO	YES	T1AL 250V	NO	10K	82 2W	NO	L07-2858	YES	NO	NO
KOREA	H	2-71														
U.K.	T															

RXD-M33MD-N (X00-30XX-XX)

DESTINATION		UNIT No.	C3	C10	CN3	D1	D10-13	F1	P1	R1	R3	R4	T1	W1,2	W5	WH3
COUNTRY	ABB.															
GENERAL MARKET	M	40-22	YES	NO	NO	NO	YES	T1AL 250V	NO	10K	82 2W	NO	L07-2858	YES	NO	NO
U.K.	T	42-71														
SHANGHAI	V2	52-10				YES	NO			220K	47 2W		L07-2758			

RXD-M33-S (X00-304X-XX)

DESTINATION		UNIT No.	C3	C10	CN3	D1	D10-13	F1	P1	R1	R3	R4	T1	W1,2	W5	WH3
COUNTRY	ABB.															
U.S.A.	K	0-11	NO	YES	NO	NO	YES	2A 125V	YES	22K	68 2W	YES	L07-2758	YES	YES	NO
CANADA	P															
GENERAL MARKET	M1	0-21	YES	NO	YES	YES	NO	T1AL 250V	NO	51K	47 2W	NO	L07-2805	NO	NO	YES
MALAYSIA	I1															
AUSTRALIA	X1	0-71			NO	NO	YES			10K	82 2W		L07-2858	YES		NO
U.K.	T1															
EUROPE	E1	2-71														
KOREA	H1															

RXD-M33-L (X00-30XX-XX)

DESTINATION		UNIT No.	C3	C10	CN3	D1	D10-13	F1	P1	R1	R3	R4	T1	W1,2	W5	WH3
COUNTRY	ABB.															
U.S.A.	K	40-11	NO	YES	NO	NO	YES	2A 125V	YES	22K	68 2W	YES	L07-2758	YES	YES	NO
CANADA	P															
GENERAL MARKET	M1	40-21	YES	NO	YES	YES	NO	T1AL 250V	NO	51K	47 2W	NO	L07-2805	NO	NO	YES
MALAYSIA	I1															
GENERAL MARKET	M2	40-23														
AUSTRALIA	X1	40-71			NO	NO	YES			10K	82 2W		L07-2858	YES		NO
U.K.	T1															
EUROPE	E1	42-71														
KOREA	H1															
SHANGHAI	V1	52-10				YES	NO		NO	220K	47 2W		L07-2758			

RXD-M33MD-N (X00-304X-XX)

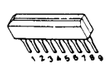
DESTINATION		UNIT No.	C3	C10	CN3	D1	D10-13	F1	P1	R1	R3	R4	T1	W1,2	W5	WH3
COUNTRY	ABB.															
GENERAL MARKET	M1	0-21	YES	NO	YES	YES	NO	T1AL 250V	NO	51K	47 2W	NO	L07-2805	NO	NO	YES
GENERAL MARKET	M2	0-23														
U.K.	T1	2-71			NO	NO	YES			10K	82 2W		L07-2858	YES		NO
EUROPE	E1															

RXD-M33E-S/M33E-L/M33E-N (X00-304X-XX)

DESTINATION		UNIT No.	C3	C10	CN3	D1	D10-13	F1	P1	R1	R3	R4	T1	W1,2	W5	WH3
COUNTRY	ABB.															
EUROPE	E2	2-71	YES	NO	NO	NO	YES	T1AL 250V	NO	10K	82 2W	NO	L07-2858	YES	NO	NO

	1G	2G	3G	4G	5G	6G-16G
P1	PGM	TRACK	TOTAL	STEREO	MD	1-1
P2	S1	NO.	AUTO	R·D·S	TAPE	1-2
P3	S2	—	TUNED	PTY	S1	1-3
P4	FM	1a	1a	A.P.S.	S2	1-4
P5	AM	1b	1b	kHz	S3	1-5
P6	PM	1c	1c	VCO	S4	2-1
P7	S3	1d	1d	P.B.C.	LP	2-2
P8	ONE	1e	1e	PROG.	2	2-3
P9	S4	1f	1f	1	4	2-4
P10	REPEAT	1g	1g	2	O.T.E.	2-5
P11	S5	2a	2a	MHz	O.T.E.	3-1
P12	RANDOM	2b	2b	TAPE	MD.EDIT	3-2
P13	S6	2c	2c	EQ.		3-3
P14	S7	2d	2d	O.T.T.	HIGH.	3-4
P15	LOUD	2e	2e	SLEEP	SPEED	3-5
P16	☾	2f	2f	—	MONO	4-1
P17	⌯	2g	2g	—	BEST HITS	4-2
P18	☽	3a	3a	—	—	4-3
P19	EX.BASS	3b	3b	—	—	4-4
P20	—	3c	3c	—	—	4-5
P21	—	3d	3d	—	—	5-1
P22	—	3e	3e	—	—	5-2
P23	—	3f	3f	—	—	5-3
P24	—	3g	3g	—	—	5-4
P25	—	4a	4a	—	—	5-5
P26	—	4b	4b	—	—	6-1
P27	—	4c	4c	—	—	6-2
P28	—	4d	4d	—	—	6-3
P29	—	4e	4e	—	—	6-4
P30	—	4f	4f	—	—	6-5
P31	—	4g	4g	—	—	7-1
P32	—	—	col	—	—	7-2
P33	—	—	Dp	—	—	7-3
P34	—	—	—	—	—	7-4
P35	—	—	—	—	—	7-5

TA8409S



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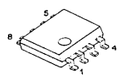

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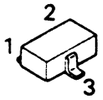

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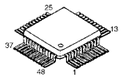

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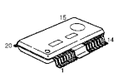

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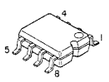

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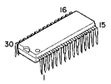

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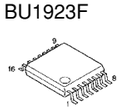
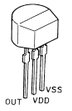


S-80840ANY



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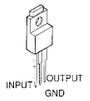

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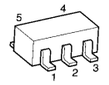

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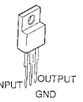

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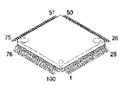


LM4766T

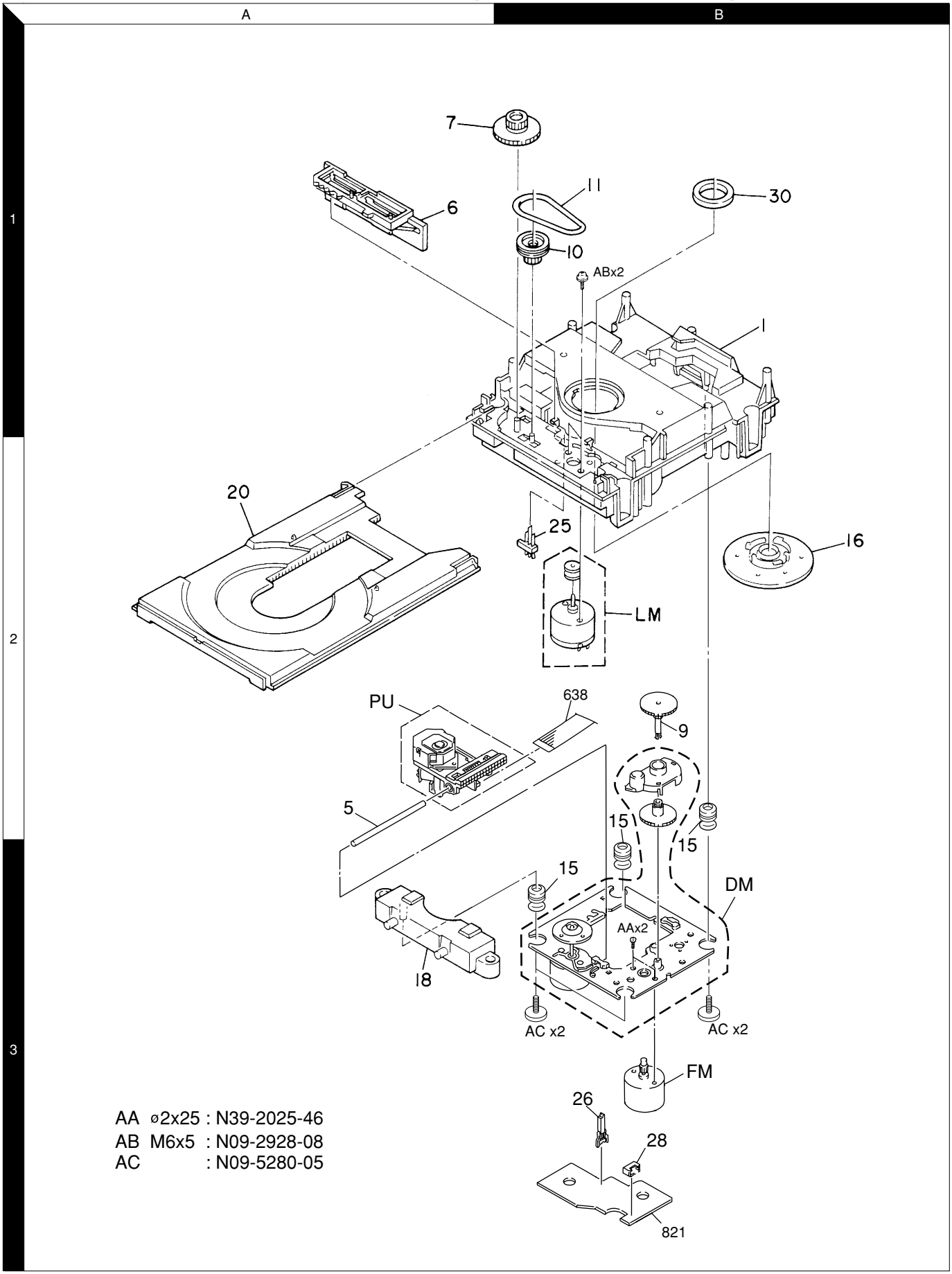
RXD-M33MD-S/M33MD-L/M33MD-N (4/4)
RXD-M33-S/M33-L/M33-N (4/4)
RXD-M33E-S/M33E-L/M33E-N (4/4)

Y39-3862-70

RXD-M33/M33MD

KENWOOD

EXPLODED VIEW(CD MECHANISM)

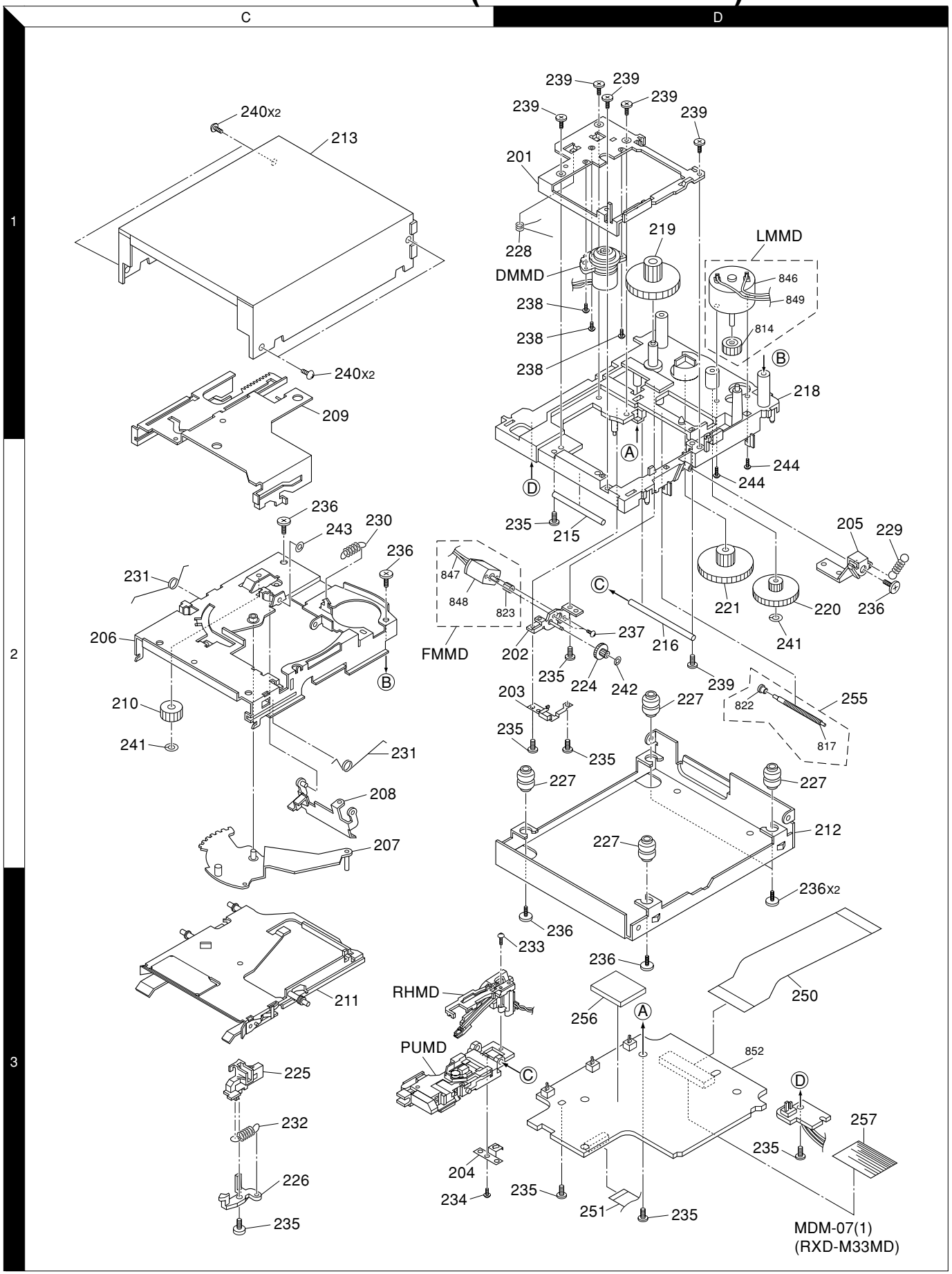


AA ø2x25 : N39-2025-46
AB M6x5 : N09-2928-08
AC : N09-5280-05

Parts with exploded numbers larger than 700 are not supplied.

RXD-M33/M33MD

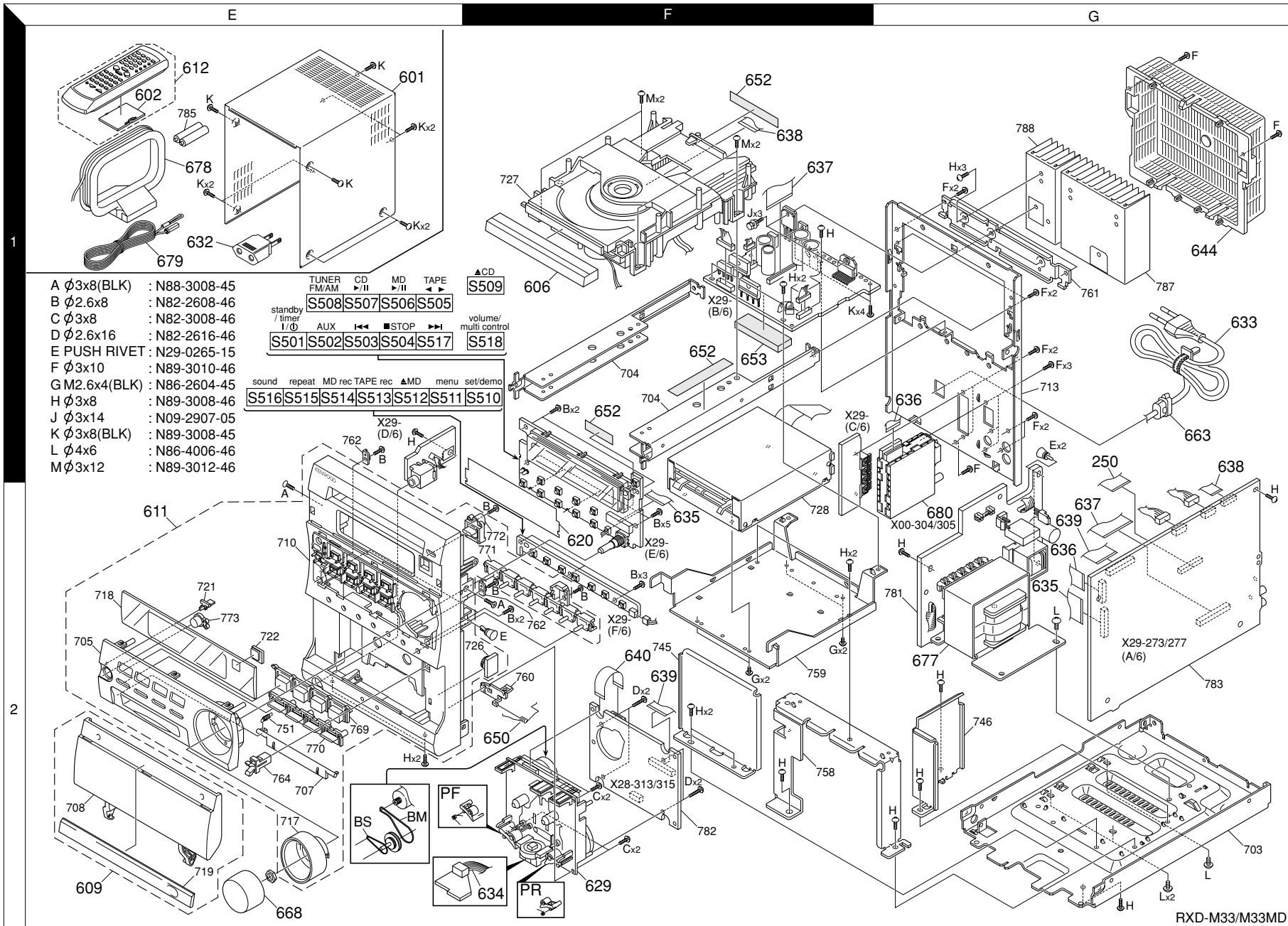
EXPLODED VIEW (MD MECHANISM)



Parts with exploded numbers larger than 700 are not supplied.

RXD-M33/M33MD

EXPLODED VIEW (UNIT)



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

❶

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
			RXD-M33MD-S/L/N			
601	1E	✻	A01-3799-01	METALLIC CABINET	MIXTEH	S,L
601	1E	✻	A01-3799-01	METALLIC CABINET	V2	N
601	1E	✻	A01-3812-01	METALLIC CABINET	MT	N
602	1E	✻	A09-1151-08	BATTERY COVER		
606	1F	✻	A29-1126-03	PANEL (CD)	MIXTEH	S,L
606	1F	✻	A29-1126-03	PANEL (CD)	V2	N
606	1F	✻	A29-1146-03	PANEL (CD)	MT	N
609	2E	✻	A53-2262-08	CASSETTE HOLDER ASSY	V2	N
609	2E	✻	A53-2256-08	CASSETTE HOLDER ASSY	MIXTE	S
609	2E	✻	A53-2258-08	CASSETTE HOLDER ASSY	MTH	L
609	2E	✻	A53-2260-08	CASSETTE HOLDER ASSY	MT	N
611	2E	✻	A60-2092-08	PANEL ASSY	MIX	S
611	2E	✻	A60-2093-08	PANEL ASSY	TE	S
611	2E	✻	A60-2094-08	PANEL ASSY	M	L
611	2E	✻	A60-2095-08	PANEL ASSY	TH	L
611	2E	✻	A60-2096-08	PANEL ASSY	M	N
611	2E	✻	A60-2097-08	PANEL ASSY	T	N
611	2E	✻	A60-2106-08	PANEL ASSY	V2	N
612	1E	✻	A70-1491-05	REMOTE CONTROLLER ASSY	TEH	
612	1E	✻	A70-1492-05	REMOTE CONTROLLER ASSY	MIXV2	
620	2F	✻	B11-1530-04	COLOR FILTER		
-			B46-0096-53	WARRANTY CARD	X	
-			B46-0310-03	WARRANTY CARD	E	
-			B46-0310-03	WARRANTY CARD	T	
-			B46-0344-03	WARRANTY CARD	V2	
-			B58-0965-13	CAUTION CARD (T,XtypePL)	TX	
-			B58-0966-13	CAUTION CARD (ELMtpyePL)	MIE	
-			B58-1546-03	CAUTION CARD	V2	
-			B58-1643-04	CAUTION CARD (CASSETTE EJEC)		
-		✻	B60-4926-00	INSTRUCTION MANUAL (FR)	E	
-		✻	B60-4927-00	INSTRUCTION MANUAL (GE)	E	
-		✻	B60-4928-00	INSTRUCTION MANUAL (NE)	E	
-		✻	B60-4929-00	INSTRUCTION MANUAL (IT)	E	
-		✻	B60-4930-00	INSTRUCTION MANUAL (ES)	E	
-		✻	B60-4931-00	INSTRUCTION MANUAL (EN)	IXT	
-		✻	B60-4931-00	INSTRUCTION MANUAL (EN)	MT	
-		✻	B60-5038-00	INSTRUCTION MANUAL (SC)	V2	
629	2F	✻	D40-1716-05	CASSETTE MECHANISM ASSY		
BM	2E		D16-0741-08	BELT MAIN		
BS	2E		D16-0705-08	BELT SUB		
PF	2E		D14-0380-08	PINCH ROLLER FWD		
PR	2F		D14-0381-08	PINCH ROLLER RVS		
632	1E		E03-0115-05	AC PLUG ADAPTER	M	
⚠ 633	1G		E30-2717-05	AC POWER CORD	X	
⚠ 633	1G		E30-2824-15	AC POWER CORD	V2	
⚠ 633	1G		E30-2829-05	AC POWER CORD	T	
⚠ 633	1G		E30-2942-05	AC POWER CORD	IE	
⚠ 633	1G		E30-2942-05	AC POWER CORD	M	
⚠ 633	1G		E30-2950-05	AC POWER CORD	H	
634	2F		E35-2716-05	WIRING HARNESS (CAS HEAD)		
635	2F,2G	✻	E35-2791-15	FLAT CABLE (21P)		
636	1G,2G	✻	E35-2792-05	FLAT CABLE (15P)		
637	1F,2G	✻	E35-2793-05	FLAT CABLE (27P)		

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

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

❷

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
638	1F,1G	✻	E35-2794-15	FLAT CABLE (16P)		
639	2F,2G	✻	E35-2825-05	FLAT CABLE (23P)		
640	2F	✻	E35-2874-05	FLAT CABLE (12P)		
644	1G	✻	F07-1728-02	COVER		
650	2F	✻	G01-4246-04	TORSION COIL SPRING		
652	1F		G10-0536-04	NON-WOVEN FABRIC		
653	1F	✻	G11-2795-04	CUSHION		
-		✻	H10-7735-02	POLYSTYRENE FOAMED FIXTURE	MIXHV2	
-		✻	H10-7736-02	POLYSTYRENE FOAMED FIXTURE	MIXHV2	
-		✻	H10-7737-02	POLYSTYRENE FOAMED FIXTURE	TE	
-		✻	H10-7738-02	POLYSTYRENE FOAMED FIXTURE	TE	
-		✻	H12-3541-04	PACKING FIXTURE	MIXH	
-			H25-1642-04	PROTECTION BAG		
-		✻	H25-1694-04	PROTECTION BAG	TEHV2	
-		✻	H25-1695-04	PROTECTION BAG		
-		✻	H25-1695-04	PROTECTION BAG	MI	
-		✻	H50-4005-14	ITEM CARTON CASE	T	S
-		✻	H50-4006-04	ITEM CARTON CASE	T	L
-		✻	H50-4007-14	ITEM CARTON CASE	T	N
-		✻	H50-4008-14	ITEM CARTON CASE	E	S
⚠ 663	1G	✻	J42-0083-05	POWER CORD BUSHING	V2	
⚠ 663	1G	✻	J42-0349-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND (CD MECHA)		
668	2E	✻	K29-7907-04	KNOB		
⚠ 677	2G	✻	L07-2964-05	POWER TRANSFORMER	TEH	
⚠ 677	2G	✻	L07-2967-05	POWER TRANSFORMER	IX	
⚠ 677	2G	✻	L07-2969-05	POWER TRANSFORMER	M	
⚠ 677	2G	✻	L07-2970-05	POWER TRANSFORMER	V2	
678	1F		T90-0852-05	LOOP ANTENNA		
679	1F	✻	T90-0877-05	LEAD WIRE ANTENNA		
680	2G	✻	W02-2783-05	TUNER ASSY	MIXV2	
680	2G	✻	W02-2784-05	TUNER ASSY	TEH	
			RXD-M33-S/L/N (T,E,H,E2)			
601	1E	✻	A01-3799-01	METALLIC CABINET	E2	S,L
601	1E	✻	A01-3799-01	METALLIC CABINET	H1T1E1	S,L
601	1E	✻	A01-3812-01	METALLIC CABINET	T1E1E2	N
602	1E	✻	A09-1151-08	BATTERY COVER		
606	1F	✻	A29-1126-03	PANEL	E2	S,L
606	1F	✻	A29-1126-03	PANEL	H1T1E1	S,L
606	1F	✻	A29-1146-03	PANEL	T1E1E2	N
609	2E	✻	A53-2257-08	CASSETTE HOLDER ASSY	E2	S
609	2E	✻	A53-2257-08	CASSETTE HOLDER ASSY	H1T1E1	S
609	2E	✻	A53-2259-08	CASSETTE HOLDER ASSY	E2	L
609	2E	✻	A53-2259-08	CASSETTE HOLDER ASSY	H1T1E1	L
609	2E	✻	A53-2261-08	CASSETTE HOLDER ASSY	T1E1E2	N
611	2E	✻	A60-2100-08	PANEL ASSY	E2	S
611	2E	✻	A60-2100-08	PANEL ASSY	H1T1E1	S

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611	2E	✻	A60-2101-08	PANEL ASSY	E2	L
611	2E	✻	A60-2101-08	PANEL ASSY	H1T1E1	L
611	2E	✻	A60-2105-08	PANEL ASSY	T1E1E2	N
612	1E	✻	A70-1494-05	REMOTE CONTROLLER ASSY		
620	2F	✻	B11-1530-04	COLOR FILTER		
-			B46-0310-03	WARRANTY CARD	T1E1E2	
-			B58-0965-13	CAUTION CARD (T,XtypePL)	T1	
-			B58-0966-13	CAUTION CARD (ELMtypePL)	E1E2	
-			B58-1643-04	CAUTION CARD (CASSETTE EJEC)		
-		✻	B60-4976-00	INSTRUCTION MANUAL (EN)	T1E1E2	
-		✻	B60-4977-00	INSTRUCTION MANUAL (FR)	E1	
-		✻	B60-4978-00	INSTRUCTION MANUAL (GE)	E1	
-		✻	B60-4979-00	INSTRUCTION MANUAL (NE)	E1	
-		✻	B60-4980-00	INSTRUCTION MANUAL (IT)	E1	
-		✻	B60-4981-00	INSTRUCTION MANUAL (ES)	E1	
-		✻	B60-4984-00	INSTRUCTION MANUAL (PL)	E2	
-		✻	B60-4985-00	INSTRUCTION MANUAL (HU)	E2	
-		✻	B60-4986-00	INSTRUCTION MANUAL (CZ)	E2	
-		✻	B60-4987-00	INSTRUCTION MANUAL (RU)	E2	
629	2F	✻	D40-1716-05	CASSETTE MECHANISM ASSY		
BM	2E		D16-0741-08	BELT MAIN		
BS	2E		D16-0705-08	BELT SUB		
PF	2E		D14-0380-08	PINCH ROLLER FWD		
PR	2F		D14-0381-08	PINCH ROLLER RVS		
⚠ 633	1G		E30-2829-05	AC POWER CORD	T1	
⚠ 633	1G		E30-2942-05	AC POWER CORD	E1E2	
⚠ 633	1G		E30-2950-05	AC POWER CORD	H1	
634	2F		E35-2716-05	WIRING HARNESS		
635	2F,2G	✻	E35-2791-15	FLAT CABLE (21P)		
636	1G,2G	✻	E35-2792-05	FLAT CABLE (15P)		
637	1F,2G	✻	E35-2793-05	FLAT CABLE (27P)		
638	1F,1G	✻	E35-2794-15	FLAT CABLE (16P)		
639	2F,2G	✻	E35-2825-05	FLAT CABLE (23P)		
640	2F	✻	E35-2874-05	FLAT CABLE (12P)		
644	1G	✻	F07-1728-02	COVER		
650	2F	✻	G01-4246-04	TORSION COIL SPRING		
652	1F		G10-0536-04	NON-WOVEN FABRIC		
-		✻	H10-7735-02	POLYSTYRENE FOAMED FIXTURE	H1	
-		✻	H10-7736-02	POLYSTYRENE FOAMED FIXTURE	H1	
-		✻	H10-7737-02	POLYSTYRENE FOAMED FIXTURE	T1E1E2	
-		✻	H10-7738-02	POLYSTYRENE FOAMED FIXTURE	T1E1E2	
-		✻	H12-3541-04	PACKING FIXTURE	H1	
-			H25-1642-04	PROTECTION BAG		
-		✻	H25-1694-04	PROTECTION BAG		
-		✻	H50-4009-14	ITEM CARTON CASE	E1	S
-		✻	H50-4010-04	ITEM CARTON CASE	E1	L
-		✻	H50-4076-14	ITEM CARTON CASE	E1	M
-		✻	H50-4077-14	ITEM CARTON CASE	T1	S
-		✻	H50-4078-04	ITEM CARTON CASE	T1	L
-		✻	H50-4079-14	ITEM CARTON CASE	T1	M
-		✻	H50-4080-14	ITEM CARTON CASE	E2	S
-		✻	H50-4081-04	ITEM CARTON CASE	E2	L
-		✻	H50-4110-14	ITEM CARTON CASE	E2	N

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-		✻	H60-1052-14	OUTER CARTON CASE	H1	S
-		✻	H60-1053-04	OUTER CARTON CASE	H1	L
⚠ 663	1G	✻	J42-0349-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND (CD MECHA)		
668	2E	✻	K29-7907-04	KNOB		
⚠ 677	2G	✻	L07-2964-05	POWER TRANSFORMER		
678	1F		T90-0852-05	LOOP ANTENNA		
679	1F	✻	T90-0877-05	LEAD WIRE ANTENNA		
680	2G	✻	W02-2781-05	TUNER ASSY		
680	2G	✻	W02-2784-05	TUNER ASSY		

RXD-M33-S/L/N (K,P,M,I,X,M2,V2)

601	1E	✻	A01-3799-01	METALLIC CABINET	I1X1V1	S,L
601	1E	✻	A01-3799-01	METALLIC CABINET	KPM1M2	S,L
601	1E	✻	A01-3812-01	METALLIC CABINET	M1M2	N
602	1E	✻	A09-1151-08	BATTERY COVER		
606	1F	✻	A29-1126-03	PANEL	I1X1V1	S,L
606	1F	✻	A29-1126-03	PANEL	KPM1M2	S,L
606	1F	✻	A29-1146-03	PANEL	M1M2	N
609	2E	✻	A53-2257-08	CASSETTE HOLDER ASSY	KP	S
609	2E	✻	A53-2257-08	CASSETTE HOLDER ASSY	M1I1X1	S
609	2E	✻	A53-2259-08	CASSETTE HOLDER ASSY	I1X1V1	L
609	2E	✻	A53-2259-08	CASSETTE HOLDER ASSY	KPM1M2	L
609	2E	✻	A53-2261-08	CASSETTE HOLDER ASSY	M1M2	N
611	2E	✻	A60-2098-08	PANEL ASSY	KP	S
611	2E	✻	A60-2099-08	PANEL ASSY	M1I1X1	S
611	2E	✻	A60-2101-08	PANEL ASSY	KP	L
611	2E	✻	A60-2102-08	PANEL ASSY	M1I1X1	L
611	2E	✻	A60-2102-08	PANEL ASSY	M2	L
611	2E	✻	A60-2104-08	PANEL ASSY	M1M2	N
611	2E	✻	A60-2107-08	PANEL ASSY	V1	L
612	1E	✻	A70-1493-05	REMOTE CONTROLLER ASSY		
620	2F	✻	B11-1530-04	COLOR FILTER		
-			B46-0096-53	WARRANTY CARD	X1	
-			B46-0197-00	QUESTIONAIRE CARD	K	
-			B46-0328-03	WARRANTY CARD	K	
-			B46-0344-03	WARRANTY CARD	V1	
-			B46-0347-03	WARRANTY CARD	P	
-			B58-0964-13	CAUTION CARD (UL)	K	
-			B58-0965-13	CAUTION CARD (T,XtypePL)	X1	
-			B58-0966-13	CAUTION CARD (ELMtypePL)	M1M2I1	
-			B58-0967-03	CAUTION CARD (PtypePL)	P	
-			B58-1546-03	CAUTION CARD	V1	
-			B58-1643-04	CAUTION CARD (CASSETTE EJEC)		
-			B58-1674-03	CAUTION CARD (P1,PRA,A4,1)	K	
-		✻	B60-4976-00	INSTRUCTION MANUAL (EN)		
-		✻	B60-4977-00	INSTRUCTION MANUAL (FR)	P	
-		✻	B60-4981-00	INSTRUCTION MANUAL (ES)	M1	
-		✻	B60-4982-00	INSTRUCTION MANUAL (AR)	M1	
-		✻	B60-4983-00	INSTRUCTION MANUAL (TC)	M1	
-		✻	B60-5039-00	INSTRUCTION MANUAL (SC)	V1	
629	2F	✻	D40-1716-05	CASSETTE MECHANISM ASSY		

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	BM	2E		D16-0741-08	BELT MAIN		
	BS	2E		D16-0705-08	BELT SUB		
	PF	2E		D14-0380-08	PINCH ROLLER FWD		
	PR	2F		D14-0381-08	PINCH ROLLER RVS		
⚠	632	1E		E03-0115-05	AC PLUG ADAPTER	M1M2	
⚠	633	1G		E30-2717-05	AC POWER CORD	X1	
⚠	633	1G		E30-2824-15	AC POWER CORD	V1	
⚠	633	1G		E30-2941-05	AC POWER CORD	KP	
⚠	633	1G		E30-2942-05	AC POWER CORD	M1M2I1	
	634	2F		E35-2716-05	WIRING HARNESS		
	635	2F,2G	✻	E35-2791-15	FLAT CABLE (21P)		
	636	1G,2G	✻	E35-2792-05	FLAT CABLE (15P)		
	637	1F,2G	✻	E35-2793-05	FLAT CABLE (27P)		
	638	1F,1G	✻	E35-2794-15	FLAT CABLE (16P)		
	639	2F,2G	✻	E35-2825-05	FLAT CABLE (23P)		
	640	2F	✻	E35-2874-05	FLAT CABLE (12P)		
	644	1G	✻	F07-1728-02	COVER		
	650	2F	✻	G01-4246-04	TORSION COIL SPRING		
	652	1F		G10-0536-04	NON-WOVEN FABRIC		
	-		✻	H10-7735-02	POLYSTYRENE FOAMED FIXTURE		
	-		✻	H10-7736-02	POLYSTYRENE FOAMED FIXTURE		
	-		✻	H12-3541-04	PACKING FIXTURE		
	-			H25-1642-04	PROTECTION BAG		
	-		✻	H25-1694-04	PROTECTION BAG	KPX1	
	-		✻	H25-1695-04	PROTECTION BAG	M1M2I1	
⚠	663	1G	✻	J42-0083-05	POWER CORD BUSHING	V1	
⚠	663	1G	✻	J42-0349-05	POWER CORD BUSHING		
	-			J61-0307-05	WIRE BAND (CD MECKA)		
	668	2E	✻	K29-7907-04	KNOB		
⚠	677	2G	✻	L07-2963-05	POWER TRANSFORMER	KP	
⚠	677	2G	✻	L07-2966-05	POWER TRANSFORMER	M1I1	
⚠	677	2G	✻	L07-2967-05	POWER TRANSFORMER	X1	
⚠	677	2G	✻	L07-2971-05	POWER TRANSFORMER	V1	
⚠	677	2G	✻	L07-2988-05	POWER TRANSFORMER	M2	
	678	1F		T90-0852-05	LOOP ANTENNA		
	679	1F	✻	T90-0877-05	LEAD WIRE ANTENNA		
	680	2G	✻	W02-2780-05	TUNER ASSY		
	680	2G	✻	W02-2783-05	TUNER ASSY		
POWER SUPPLY UNIT (X00-3000-25)							
	CN1			E40-8386-05	PIN ASSY	M1I1M2	
⚠	F3			F06-1022-05	FUSE (SEMKO) (250V T1AL)	M1I1M2	
	CN2 ,3			J13-0075-05	FUSE CLIP	M1I1M2	
⚠	S1			S62-0001-05	SLIDE SWITCH	M1I1M2	

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POWER SUPPLY UNIT (X00-304X/305X-XX)						
	C1			CE04LW1E332M	ELECTRO 3300UF 25WV		
	C2			CQ93FMG1H563J	MYLAR 0.056UF J		
	C3			CK45FB1H102K	CERAMIC 1000PF K		569
	C3			CK45FB1H102K	CERAMIC 1000PF K	M1I1M2	8
	C3			CK45FB1H102K	CERAMIC 1000PF K	X1	8
	C4			CE04LW1A101M	ELECTRO 100UF 10WV		
	C5			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
	C9			CQ93FMG1H473J	MYLAR 0.047UF J		
	C10			CE04KW1H010M	ELECTRO 1.0UF 50WV	KP	8
	CN1			E40-4245-05	PIN ASSY		
	CN3			E40-4428-05	PIN ASSY	M1I1M2	8
	P1			E23-0378-05	TERMINAL	KP	8
	W1 ,2			E31-0001-00	JUMPER WIRE		9
	W1 ,2			E31-0002-00	JUMPER WIRE		56
	W1 ,2			E31-0002-00	JUMPER WIRE	KPX1	8
	W5			E31-0002-00	JUMPER WIRE	KP	8
⚠	F1			F06-1022-05	FUSE (SEMKO) (250V T1AL)		56
⚠	F1			F06-1022-05	FUSE (SEMKO) (250V T1AL)	M1I1M2	8
⚠	F1			F06-1022-05	FUSE (SEMKO) (250V T1AL)	X1	8
⚠	F1			F50-0069-05	FUSE (5X20)	KP	8
⚠	F1			F50-0108-05	FUSE (5X20) (250V T1AL)		9
	CN4 ,5			J13-0075-05	FUSE CLIP		
⚠	T1			L07-2758-05	POWER TRANSFORMER		9
⚠	T1			L07-2758-05	POWER TRANSFORMER	KP	8
⚠	T1			L07-2805-05	POWER TRANSFORMER	M1I1M2	8
⚠	T1			L07-2858-05	POWER TRANSFORMER		56
⚠	T1			L07-2858-05	POWER TRANSFORMER	X1	8
	R1			RD14BB2C103J	RD 10K J 1/6W		56
	R1			RD14BB2C103J	RD 10K J 1/6W	X1	8
	R1			RD14BB2C223J	RD 22K J 1/6W	KP	8
	R1			RD14BB2C224J	RD 220K J 1/6W		9
	R1			RD14BB2C513J	RD 51K J 1/6W	M1I1M2	8
	R3			RS14KB3D820J	FL-PROOF RS 82 J 2W		
⚠	R4			R92-1844-05		KP	
⚠	K1			S76-0102-05	MAGNETIC RELAY		
⚠	D1			S1ZB20(4101)	DIODE DIODE		9
⚠	D1			S1ZB20(4101)	DIODE DIODE	M1I1M2	8
	D2 -7			HSS104A	DIODE		
	D2 -7			1SS133	DIODE		
	D8			S5688B	DIODE		
	D9			RB721Q	DIODE		
⚠	D10 -13			HSS104A	DIODE		56
⚠	D10 -13			HSS104A	DIODE	KPX1	8
⚠	D10 -13			1SS133	DIODE		56
⚠	D10 -13			1SS133	DIODE	KPX1	8
	IC1			BA05T	ANALOGUE IC		
	Q1			DTC113ZSA	DIGITAL TRANSISTOR		
	Q1			UN4219	DIGITAL TRANSISTOR		
	Q2			2SA1175(F,E)	TRANSISTOR		
	Q2			2SA933AS(Q,R)	TRANSISTOR		

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RECORD/PLAYBACK UNIT (X28-313X/315X-XX)									
C1 ,2			CC73GCH1H681J	CHIP C	680PF	J			
C3 ,4			CQ93FMG1H822J	MYLAR	8200PF	J			
C5 ,6			CQ93FMG1H393J	MYLAR	0.039UF	J			
C7 ,8			CE04LW1H100M	ELECTRO	10UF	50WV			
C9 ,10			CE04LW1HR22M	ELECTRO	0.22UF	50WV			
C11 ,12			CE04LW1H4R7M	ELECTRO	4.7UF	50WV			
C13 ,14			CE04LW1H100M	ELECTRO	10UF	50WV			
C15 ,16			CC45FSL1H271J	CERAMIC	270PF	J			
C17 ,18			CC73GCH1H221J	CHIP C	220PF	J			
C19 ,20			CE04LW1H4R7M	ELECTRO	4.7UF	50WV			
C21 ,22			CK73GB1H472K	CHIP C	4700PF	K			
C23 ,24			CC73GCH1H221J	CHIP C	220PF	J			6
C23 ,24			CC73GCH1H221J	CHIP C	220PF	J		TEH	5
C100			CE04PW1A101M	ELECTRO	100UF	10WV			
C101			CE04PW1H010M	ELECTRO	1UF	50WV			
C102			CE04PW1H4R7M	ELECTRO	4.7UF	50WV			
C103			CE04PW1E470M	ELECTRO	47UF	25WV			
C104			CE04PW1H4R7M	ELECTRO	4.7UF	50WV			
C105			CE04PW1H010M	ELECTRO	1UF	50WV			
C106			CE04PW1H100M	ELECTRO	10UF	50WV			
C107,108			CQ93FMG1H472J	MYLAR	4700PF	J			
C109			CQ93FMG1H183J	MYLAR	0.018UF	J			
C110			CE04PW1E470M	ELECTRO	47UF	25WV			
C111			CQ93HP2A822J	MYLAR	8200PF	J			
C114			CE04PW1A101M	ELECTRO	100UF	10WV			
C115			CQ93FMG1H153J	MYLAR	0.015UF	J			
CN1			E40-4910-05	FLAT CABLE CONNECTOR					
CN2			E40-4937-05	FLAT CABLE CONNECTOR					
CN3			E40-3250-05	PIN ASSY					
E1			J11-0808-05	WIRE CLAMPER					
L1 ,2			L40-1035-20	SMALL FIXED INDUCTOR(10MH,J)					
L3		✻	L32-1038-05	BIAS OSCILATING COIL					
L4			L40-1001-82	SMALL FIXED INDUCTOR(10UH)					
R1 ,2			RK73GB1J224J	CHIP R	220K	J	1/16W		
R3 ,4			RK73GB1J103J	CHIP R	10K	J	1/16W		
R5 ,6			RK73GB1J512J	CHIP R	5.1K	J	1/16W		
R7 ,8			RK73GB1J752J	CHIP R	7.5K	J	1/16W		
R9 ,10			RK73GB1J472J	CHIP R	4.7K	J	1/16W		
R11 ,12			RK73GB1J272J	CHIP R	2.7K	J	1/16W		
R13 ,14			RK73GB1J432J	CHIP R	4.3K	J	1/16W		
R15 ,16			RK73GB1J153J	CHIP R	15K	J	1/16W		
R17 ,18			RK73GB1J103J	CHIP R	10K	J	1/16W		
R19 ,20			RK73GB1J473J	CHIP R	47K	J	1/16W		
R21 -24			RK73GB1J105J	CHIP R	1.0M	J	1/16W		
R25 ,26			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R27 ,28			RD14BB2C221J	RD	220	J	1/6W		6
R27 ,28			RD14BB2C221J	RD	220	J	1/6W	HTE	5
⚠ R100			RD14NB2E4R7J	RD	4.7	J	1/4W		
R101			RK73GB1J223J	CHIP R	22K	J	1/16W		

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R102			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R103			RK73GB1J101J	CHIP R	100	J	1/16W		
R104,105			RK73GB1J103J	CHIP R	10K	J	1/16W		
R107			RK73GB1J103J	CHIP R	10K	J	1/16W		
R109			RK73GB1J332J	CHIP R	3.3K	J	1/16W		
R110			RK73GB1J394J	CHIP R	390K	J	1/16W		
R111,112			RK73GB1J103J	CHIP R	10K	J	1/16W		
⚠ R113			RD14NB2E100J	RD	10	J	1/4W		
R118,119			RK73GB1J473J	CHIP R	47K	J	1/16W		
R120			RK73GB1J222J	CHIP R	2.2K	J	1/16W		
⚠ R123			RD14NB2E1R0J	RD	1	J	1/4W		
R125			RK73GB1J473J	CHIP R	47K	J	1/16W		
VR1 ,2			R12-6013-05	TRIMMING POT.(330K)					
D1 ,2			HSS104A	DIODE					
D1 ,2			1SS133	DIODE					
D4			S5688B(TPB5)	DIODE					
IC1			HA12230NT	ANALOGUE IC					
⚠ Q1 ,2			2SB1424(Q,R)	TRANSISTOR					
Q3			DTC143TSA	DIGITAL TRANSISTOR					
Q3			UN4216	DIGITAL TRANSISTOR					
Q4			DTC124ESA	DIGITAL TRANSISTOR					9
Q4			KRC103M	DIGITAL TRANSISTOR					568
Q4			UN4212	DIGITAL TRANSISTOR					
Q5 -7			DTC124EUA	DIGITAL TRANSISTOR					
Q5 -7			UN5212	DIGITAL TRANSISTOR					
⚠ Q8			KTC3205	TRANSISTOR					
⚠ Q8			2SC3940A(R,S)	TRANSISTOR					
Q9 ,10			KTC3199(Y,GR)	TRANSISTOR					
Q9 ,10			2SC2785(F,E)	TRANSISTOR					
Q15 -18			RK7002	FET					
Q19			DTC124EUA	DIGITAL TRANSISTOR					
Q19			UN5212	DIGITAL TRANSISTOR					
CONTROL CIRCUIT UNIT (X29-273X/277X-XX)									
D510			B30-2541-05	LED(GRN3(80))					
D511			B30-2546-05	LED(RED3(80))					
C1 ,2			CE04KW1H2R2M	ELECTRO	2.2UF		50WV		
C3			CE04HW1E100M	NP-ELEC	10UF		25WV		
C4			CE04LW1H220M	ELECTRO	22UF		50WV		
C5 ,6			CK45FB1H102K	CERAMIC	1000PF		K		
C7 ,8			CC45FSL1H271J	CERAMIC	270PF		J		
C10			CE04LW1H4R7M	ELECTRO	4.7UF		50WV		
C11			CE04KW1A221M	ELECTRO	220UF		10WV		6
C11			CE04KW1A221M	ELECTRO	220UF		10WV	HTE	5
C11			CE04LW1A221M	ELECTRO	220UF		10WV		89
C11			CE04LW1A221M	ELECTRO	220UF		10WV	MIX	5
C12			CQ93FMG1H124J	MYLAR	0.12UF		J		
C13 ,14			CK45FB1H221K	CERAMIC	220PF		K		
C17 ,18			CK45FB1H471K	CERAMIC	470PF		K		
C19 ,20			CE04HW1E100M	NP-ELEC	10UF		25WV		
C23			CF92FV1H334J	MF-C	0.33UF		J	KP	8
C23			CF92FV1H684J	MF-C	0.68UF		J		569
C23		✻	C91-1579-05	METALIZED FILM CAPACITOR				KP	8

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C23		✻	C91-1583-05	METALIZED FILM CAPACITOR				56
C23 ,24			CF92FV1H684J	MF-C	0.68UF	J	M1I1M2	8
C23 ,24			CF92FV1H684J	MF-C	0.68UF	J	X1	8
C23 ,24		✻	C91-1583-05	METALIZED FILM CAPACITOR			M1I1M2	8
C23 ,24		✻	C91-1583-05	METALIZED FILM CAPACITOR			X1	8
C24			CF92FV1H684J	MF-C	0.68UF	J		569
C24		✻	C91-1583-05	METALIZED FILM CAPACITOR				56
C25 ,26			CK45FB1H471K	CERAMIC	470PF	K		
C27 ,28			CQ93FMG1H123J	MYLAR	0.012UF	J		
C30			CF92FV1H334J	MF-C	0.33UF	J	KP	8
C30			CF92FV1H684J	MF-C	0.68UF	J		569
C30		✻	C91-1579-05	METALIZED FILM CAPACITOR			KP	8
C30		✻	C91-1583-05	METALIZED FILM CAPACITOR				56
C30 ,31			CF92FV1H684J	MF-C	0.68UF	J	M1I1M2	8
C30 ,31			CF92FV1H684J	MF-C	0.68UF	J	X1	8
C30 ,31		✻	C91-1583-05	METALIZED FILM CAPACITOR			M1I1M2	8
C30 ,31		✻	C91-1583-05	METALIZED FILM CAPACITOR			X1	8
C31			CF92FV1H684J	MF-C	0.68UF	J		569
C31		✻	C91-1583-05	METALIZED FILM CAPACITOR				56
C32 ,33			CQ93FMG1H223J	MYLAR	0.022UF	J		
C34			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C35 ,36			CC45FSL1H470J	CERAMIC	47PF	J		
C37			CQ93FMG1H473J	MYLAR	0.047UF	J		
C96			CQ93FMG1H104J	MYLAR	0.10UF	J		
C98			CQ93FMG1H104J	MYLAR	0.10UF	J		
C101,102			CE04KW1V222M	ELECTRO	2200UF	35WV		
C103		✻	CE04PW1J470M	ELECTRO	47UF	63WV		
C104			CE04PW1H470M	ELECTRO	47UF	50WV		
C106			CE04LW1V470M	ELECTRO	47UF	35WV		
C107			CK45FB1H102K	CERAMIC	1000PF	K		
C109			CE04LW1H100M	ELECTRO	10UF	50WV		
C110			CE04LW1E470M	ELECTRO	47UF	25WV		
C112			CE04LW1E470M	ELECTRO	47UF	25WV		
C114			CE04LW1E470M	ELECTRO	47UF	25WV		
C115			CE04LW2A101M	ELECTRO	100UF	100WV		
C121			CC45FSL1H101J	CERAMIC	100PF	J		
C122			CE04LW1E222M	ELECTRO	2200UF	25WV		
C123			CE04LW1C222M	ELECTRO	2200UF	16WV		
C124,125			CQ93FMG1H104J	MYLAR	0.10UF	J		
C126			CK45FE2H103P	CERAMIC	0.010UF	P		
C203			CE04KW1A101M	ELECTRO	100UF	10WV		
C205,206			CE04KW1A101M	ELECTRO	100UF	10WV		
C211,212			CQ93FMG1H104J	MYLAR	0.10UF	J		
C213			CC45FSL1H331J	CERAMIC	330PF	J		
C214			CC45FCH1H221J	CERAMIC	220PF	J		
C215			CK45FB1H471K	CERAMIC	470PF	K		
C216,217			CQ93FMG1H223J	MYLAR	0.022UF	J		
C218			CQ93FMG1H333J	MYLAR	0.033UF	J		
C221			CE04KW1A101M	ELECTRO	100UF	10WV		
C223			CF92FV1H334J	MF-C	0.33UF	J		
C223		✻	C91-1579-05	METALIZED FILM CAPACITOR				568
C224			CC45FCH1H100D	CERAMIC	10PF	D		5
C224			CC45FCH1H100D	CERAMIC	10PF	D	V2	9
C225			CC45FCH1H180J	CERAMIC	18PF	J		5
C225			CC45FCH1H180J	CERAMIC	18PF	J	V2	9

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C226			CE04LW1H010M	ELECTRO	1.0UF	50WV		
C227			CK45FB1H222K	CERAMIC	2200PF	K		
C228			CQ93FMG1H223J	MYLAR	0.022UF	J		
C229			CQ93FMG1H472J	MYLAR	4700PF	J		
C230			CK45FB1H222K	CERAMIC	2200PF	K		
C231			CQ93FMG1H102J	MYLAR	1000PF	J		
C232,233			CQ93FMG1H223J	MYLAR	0.022UF	J		
C234			CF92FV1H564J	MF-C	0.56UF	J		568
C234		✻	C91-1582-05	METALIZED FILM CAPACITOR				
C235			CQ93FMG1H122J	MYLAR	1200PF	J		
C240			CE04KW1A101M	ELECTRO	100UF	10WV		
C241			CE04LW1HR33M	ELECTRO	0.33UF	50WV		
C242,243			CC45FCH1H100D	CERAMIC	10PF	D		5
C242,243			CC45FCH1H100D	CERAMIC	10PF	D	V2	9
C242,243			CC45FCH1H560J	CERAMIC	56PF	J		68
C242,243			CC45FCH1H560J	CERAMIC	56PF	J	V1	9
C244			CK45FB1H102K	CERAMIC	1000PF	K		
C245			CE04LW1E470M	ELECTRO	47UF	25WV		
C246			CK45FB1H102K	CERAMIC	1000PF	K		
C247			CQ93FMG1H104J	MYLAR	0.10UF	J		
C248			CC45FCH1H470J	CERAMIC	47PF	J		
C250			CQ93FMG1H183J	MYLAR	0.018UF	J		
C251			CK45FB1H332K	CERAMIC	3300PF	K		
C252			CQ93FMG1H223J	MYLAR	0.022UF	J		
C254			CC45FCH1H101J	CERAMIC	100PF	J		
C255			CQ93FMG1H223J	MYLAR	0.022UF	J		
C256			CC45FSL1H221J	CERAMIC	220PF	J		
C257,258			CK45FB1H471K	CERAMIC	470PF	K		
C259			CQ93FMG1H104J	MYLAR	0.10UF	J		
C261,262			CC45FCH1H120J	CERAMIC	12PF	J		
C263,264			CC45FCH1H150J	CERAMIC	15PF	J		
C266			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C269			CE04PW1H100M	ELECTRO	10UF	50WV		
C271,272			CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C273,274			CC45FCH1H050C	CERAMIC	5.0PF	C		
C275,276			CQ93FMG1H562J	MYLAR	5600PF	J		
C277,278			CQ93FMG1H122J	MYLAR	1200PF	J		
C279,280			CC45FCH1H101J	CERAMIC	100PF	J		
C281,282			CK45FB1H152K	CERAMIC	1500PF	K		
C283,284			CC45FCH1H470J	CERAMIC	47PF	J		
C285,286			CE04KW1A101M	ELECTRO	100UF	10WV		
C290			CC45FCH1H270J	CERAMIC	27PF	J		
C291			CE04KW1A101M	ELECTRO	100UF	10WV		
C295			CC45FCH1H390J	CERAMIC	39PF	J		
C297			CC45FCH1H101J	CERAMIC	100PF	J		5
C297			CC45FCH1H101J	CERAMIC	100PF	J	V2	9
C298			CE04LW1A101M	ELECTRO	100UF	10WV		
C299		✻	CE04PW1A471M	ELECTRO	470UF	10WV		
C501,502			CC45FSL1H221J	CERAMIC	220PF	J		
C503			CE04RW1C220M	ELECTRO	22UF	16WV		
C504,505			CE04RW1H010M	ELECTRO	1.0UF	50WV		
C506			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C507			CC45FSL1H101J	CERAMIC	100PF	J		
C508			CC45FSL1H100D	CERAMIC	10PF	D		
C509			CC45FSL1H470J	CERAMIC	47PF	J		

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C511			CE04RW1E470M	ELECTRO	47UF	25WV		
C512			CC45FCH1H470J	CERAMIC	47PF	J		
C514			CE04RW1H330M	ELECTRO	33UF	50WV		
C515			CE04RW1V2R2M	ELECTRO	2.2UF	35WV		6
C515			CE04RW1V2R2M	ELECTRO	2.2UF	35WV	HTE	5
C516			CC45FSL1H271J	CERAMIC	270PF	J		6
C516			CC45FSL1H271J	CERAMIC	270PF	J	HTE	5
C517			CK45FF1H103Z	CERAMIC	0.010UF	Z		6
C517			CK45FF1H103Z	CERAMIC	0.010UF	Z	HTE	5
C518			CK45FB1H561K	CERAMIC	560PF	K		6
C518			CK45FB1H561K	CERAMIC	560PF	K	HTE	5
C519			CE04RW0J470M	ELECTRO	47UF	6.3WV		6
C519			CE04RW0J470M	ELECTRO	47UF	6.3WV	HTE	5
C520			CK45FF1H103Z	CERAMIC	0.010UF	Z		6
C520			CK45FF1H103Z	CERAMIC	0.010UF	Z	HTE	5
C521,522			CC45FCH1H270J	CERAMIC	27PF	J		6
C521,522			CC45FCH1H270J	CERAMIC	27PF	J	HTE	5
C523			CC45FSL1H101J	CERAMIC	100PF	J		6
C523			CC45FSL1H101J	CERAMIC	100PF	J	HTE	5
C540		✻	CE04RW1H220M	ELECTRO	22UF	50WV		
C541			CC45FSL1H100D	CERAMIC	10PF	D		
C601,602			CC45FSL1H221J	CERAMIC	220PF	J		
C603-606			CE04KW1H4R7M	ELECTRO	4.7UF	50WV		
C607,608			C90-3958-05	ELECTRO	3.3UF	50WV		5
C607,608			C90-3958-05	ELECTRO	3.3UF	50WV	V2	9
C609,610			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C611,612			CC45FSL1H470J	CERAMIC	47PF	J		5
C611,612			CC45FSL1H470J	CERAMIC	47PF	J	V2	9
C615,616			CC45FSL1H101J	CERAMIC	100PF	J		5
C615,616			CC45FSL1H101J	CERAMIC	100PF	J	V2	9
C617,618			CC45FSL1H101J	CERAMIC	100PF	J		
C619,620			CC45FSL1H030C	CERAMIC	3.0PF	C		
C621,622			CE04KW1H100M	ELECTRO	10UF	50WV		
C623,624			CQ93FMG1H153J	MYLAR	0.015UF	J		
C625,626			CF92FV1H154J	MF-C	0.15UF	J		568
C625,626		✻	C91-1575-05	METALIZED FILM CAPACITOR				
C627-630			CQ93FMG1H104J	MYLAR	0.10UF	J		
C631,632			CQ93FMG1H683J	MYLAR	0.068UF	J		
C633,634			CQ93FMG1H272J	MYLAR	2700PF	J		
C635-638			CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C639,640			CC45FSL1H101J	CERAMIC	100PF	J		
C643,644			CC45FSL1H221J	CERAMIC	220PF	J		
C645			C90-3959-05	ELECTRO	100UF	10WV		
C646			CE04KW1H100M	ELECTRO	10UF	50WV		
C648,649			CE04KW1H100M	ELECTRO	10UF	50WV		
C650			CC45FSL1H030C	CERAMIC	3.0PF	C		6
C650			CC45FSL1H030C	CERAMIC	3.0PF	C	HTE	5
C651,652			CE04KW1H4R7M	ELECTRO	4.7UF	50WV		5
C651,652			CE04KW1H4R7M	ELECTRO	4.7UF	50WV	V2	9
C661			CE04LW1A101M	ELECTRO	100UF	10WV		5
C661			CE04LW1A101M	ELECTRO	100UF	10WV	V2	9
C663			CE04LW1A101M	ELECTRO	100UF	10WV		68
C663			CE04LW1A101M	ELECTRO	100UF	10WV	V1	9
C664			CE04LW1A101M	ELECTRO	100UF	10WV		5
C664			CE04LW1A101M	ELECTRO	100UF	10WV	V2	9

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C665			CE04LW0J331M	ELECTRO	330UF	6.3WV		5
C665			CE04LW0J331M	ELECTRO	330UF	6.3WV	V2	9
C701			CE04EW0J102M	ELECTRO	1000UF	6.3WV		
C702			CE04LW1H010M	ELECTRO	1.0UF	50WV		
C703			CE04LW1H2R2M	ELECTRO	2.2UF	50WV		
C704			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C705			CE04LW1A101M	ELECTRO	100UF	10WV		
C706			CK45FB1H102K	CERAMIC	1000PF	K		
C707			CC45FSL1H680J	CERAMIC	68PF	J		
C708			CC45FCH1H220J	CERAMIC	22PF	J		
C709			CC45FCH1H180J	CERAMIC	18PF	J		
C711-716			CK45FF1H103Z	CERAMIC	0.010UF	Z		
CN1		✻	E40-8487-05	FLAT CABLE CONNECTOR				
CN2			E40-3253-05	PIN ASSY				
CN3			E40-3249-05	PIN ASSY				
CN4			E40-3252-05	PIN ASSY				
CN21			E40-8328-05	FLAT CABLE CONNECTOR				
CN22			E40-3250-05	PIN ASSY				
CN23		✻	E40-4976-05	PIN ASSY				
CN26		✻	E40-8793-05	PIN ASSY				
CN61			E40-8484-05	FLAT CABLE CONNECTOR				
CN62			E40-8485-05	FLAT CABLE CONNECTOR				
CN63			E40-8481-05	FLAT CABLE CONNECTOR				
CN64			E40-8461-05	FLAT CABLE CONNECTOR				5
CN64			E40-8461-05	FLAT CABLE CONNECTOR			V2	9
CN65		✻	E40-8487-05	FLAT CABLE CONNECTOR				
CN501			E40-4728-05	FLAT CABLE CONNECTOR				
CN502			E40-3260-05	PIN ASSY				
J1			E11-0399-05	MINIATURE PHONE JACK(7P)				
J2			E70-0057-05	LOCK TERMINAL BOARD				
J601			E63-1038-05	PIN JACK				
W301,302			E31-0001-00	JUMPER WIRE				8
-			J19-6154-03	HOLDER				
E1 -3			J11-0809-05	WIRE CLAMPER				
E8 -11			J11-0809-05	WIRE CLAMPER				
L201			L40-1001-17	SMALL FIXED INDUCTOR(10UH,K)				
L601-604			L92-0089-05	CHIP FERRITE				5
L601-604			L92-0089-05	CHIP FERRITE			V2	9
X21			L77-2190-05	CRYSTAL RESONATOR(16.3944MHZ)				68
X21			L77-2190-05	CRYSTAL RESONATOR(16.3944MHZ)			V1	9
X21		✻	L77-2338-05	CRYSTAL RESONATOR(33.8688MHZ)				5
X21		✻	L77-2338-05	CRYSTAL RESONATOR(33.8688MHZ)			V2	9
X501			L77-2002-05	CRYSTAL RESONATOR(4.332MHZ)				6
X501			L77-2002-05	CRYSTAL RESONATOR(4.332MHZ)			HTE	5
X601			L77-2173-05	CRYSTAL RESONATOR(32.768KHZ)				
X602			L78-0725-05	RESONATOR	(8.38MHZ)			
R1 ,2			RK73GB1J203J	CHIP R	20K	J 1/16W		
R3 -6			RK73GB1J222J	CHIP R	2.2K	J 1/16W		
R7			RK73GB1J103J	CHIP R	10K	J 1/16W		
R9 ,10			RK73GB1J203J	CHIP R	20K	J 1/16W		
R12			RK73GB1J472J	CHIP R	4.7K	J 1/16W		
R13			RK73GB1J222J	CHIP R	2.2K	J 1/16W		
R14 ,15			RK73GB1J102J	CHIP R	1.0K	J 1/16W		

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Ref. No	Address	New Parts	Parts No.	Description			Destination	Remarks
R16			RK73GB1J821J	CHIP R	820	J 1/16W		
R18			RK73EB2B112J	CHIP R	1.1K	J 1/8W		
R19			RK73GB1J104J	CHIP R	100K	J 1/16W		
R20			RK73GB1J153J	CHIP R	15K	J 1/16W		
R21			RK73GB1J103J	CHIP R	10K	J 1/16W		
R22			RK73GB1J332J	CHIP R	3.3K	J 1/16W		
R23			RK73GB1J472J	CHIP R	4.7K	J 1/16W		
R26			RK73GB1J102J	CHIP R	1.0K	J 1/16W		
R28 ,29			RK73GB1J203J	CHIP R	20K	J 1/16W		
R30 ,31			RK73GB1J511J	CHIP R	510	J 1/16W		
R38 ,39			RK73GB1J473J	CHIP R	47K	J 1/16W		
R40 ,41			RD14NB2E1R5J	RD	1.5	J 1/4W		
R42			RK73EB2B682J	CHIP R	6.8K	J 1/8W		
R43			RS14KB3A331J	FL-PROOF RS	330	J 1W		9
R43			RS14KB3A331J	FL-PROOF RS	330	J 1W	MIX	5
R43			RS14KB3A331J	FL-PROOF RS	330	J 1W	M1I1M2	8
R43			RS14KB3A391J	FL-PROOF RS	390	J 1W		6
R43			RS14KB3A391J	FL-PROOF RS	390	J 1W	HTE	5
R43			RS14KB3A391J	FL-PROOF RS	390	J 1W	KPX1	8
R44			RK73GB1J102J	CHIP R	1.0K	J 1/16W		
R45 ,46			RS14KB3A331J	FL-PROOF RS	330	J 1W		
R50 -52			RK73GB1J473J	CHIP R	47K	J 1/16W		
R53			RK73GB1J222J	CHIP R	2.2K	J 1/16W		
R54			RK73GB1J102J	CHIP R	1.0K	J 1/16W		
R63			RK73GB1J224J	CHIP R	220K	J 1/16W		
R66			RK73GB1J560J	CHIP R	56	J 1/16W		
⚠ R102			RD14NB2E4R7J	RD	4.7	J 1/4W		
R107			RK73GB1J102J	CHIP R	1.0K	J 1/16W		
⚠ R110			RD14NB2E1R0J	RD	1	J 1/4W		
R201			RK73GB1J473J	CHIP R	47K	J 1/16W		
R202-205			RK73GB1J153J	CHIP R	15K	J 1/16W		
R206			RK73GB1J473J	CHIP R	47K	J 1/16W		
R207			RK73GB1J910J	CHIP R	91	J 1/16W		
R210			RK73GB1J104J	CHIP R	100K	J 1/16W		5
R210			RK73GB1J104J	CHIP R	100K	J 1/16W	V2	9
R211,212			RK73GB1J334J	CHIP R	330K	J 1/16W		
R214			RK73GB1J101J	CHIP R	100	J 1/16W		
R215			RK73GB1J153J	CHIP R	15K	J 1/16W		
R216			RK73GB1J393J	CHIP R	39K	J 1/16W		
R217			RK73GB1J101J	CHIP R	100	J 1/16W		
R218			RK73GB1J683J	CHIP R	68K	J 1/16W		
R219			RK73GB1J473J	CHIP R	47K	J 1/16W		
R220			RK73GB1J104J	CHIP R	100K	J 1/16W		
R221			RK73GB1J100J	CHIP R	10	J 1/16W		
R222			RK73GB1J102J	CHIP R	1.0K	J 1/16W		
R223,224			RK73GB1J392J	CHIP R	3.9K	J 1/16W		
R225			RK73GB1J272J	CHIP R	2.7K	J 1/16W		5
R225			RK73GB1J272J	CHIP R	2.7K	J 1/16W	V2	9
R226			RK73GB1J333J	CHIP R	33K	J 1/16W		5
R226			RK73GB1J333J	CHIP R	33K	J 1/16W	V2	9
R227			RK73GB1J473J	CHIP R	47K	J 1/16W		
R232			RK73GB1J104J	CHIP R	100K	J 1/16W		
R233			RK73GB1J563J	CHIP R	56K	J 1/16W		
R234			RK73GB1J333J	CHIP R	33K	J 1/16W		
R235			RK73GB1J105J	CHIP R	1.0M	J 1/16W		

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R238			RK73GB1J1R0J	CHIP R	1	J 1/16W		
R240			RK73GB1J100J	CHIP R	10	J 1/16W		
R241			RK73GB1J272J	CHIP R	2.7K	J 1/16W		
R242			RK73GB1J121J	CHIP R	120	J 1/16W		68
R242			RK73GB1J121J	CHIP R	120	J 1/16W	V1	9
R242			RK73GB1J471J	CHIP R	470	J 1/16W		5
R242			RK73GB1J471J	CHIP R	470	J 1/16W	V2	9
R243			RK73GB1J105J	CHIP R	1.0M	J 1/16W		
R247			RK73GB1J220J	CHIP R	22	J 1/16W		
R248			RK73GB1J103J	CHIP R	10K	J 1/16W		
R250			RK73GB1J393J	CHIP R	39K	J 1/16W		
R251			RK73GB1J183J	CHIP R	18K	J 1/16W		
R252			RK73GB1J102J	CHIP R	1.0K	J 1/16W		
R254			RK73GB1J184J	CHIP R	180K	J 1/16W		
R255			RK73GB1J682J	CHIP R	6.8K	J 1/16W		
R256			RK73GB1J274J	CHIP R	270K	J 1/16W		
R257			RK73GB1J103J	CHIP R	10K	J 1/16W		
R258			RK73GB1J104J	CHIP R	100K	J 1/16W		
R259			RK73GB1J563J	CHIP R	56K	J 1/16W		
R260			RK73GB1J154J	CHIP R	150K	J 1/16W		
R261			RK73GB1J102J	CHIP R	1.0K	J 1/16W		
R262			RK73GB1J101J	CHIP R	100	J 1/16W		
R263			RK73GB1J102J	CHIP R	1.0K	J 1/16W		
R264-266			RK73GB1J101J	CHIP R	100	J 1/16W		
R269			RK73GB1J512J	CHIP R	5.1K	J 1/16W		
R270			RK73GB1J392J	CHIP R	3.9K	J 1/16W		
R271,272			RK73GB1J222J	CHIP R	2.2K	J 1/16W		
R273,274			RK73GB1J104J	CHIP R	100K	J 1/16W		
R275,276			RK73GB1J222J	CHIP R	2.2K	J 1/16W		
R281,282			RK73GB1J222J	CHIP R	2.2K	J 1/16W		
R285,286			RK73GB1J103J	CHIP R	10K	J 1/16W		
R290			RK73GB1J152J	CHIP R	1.5K	J 1/16W		
⚠ R291			RS14KB3A4R7J	FL-PROOF RS	4.7	J 1W		
R293			RK73GB1J101J	CHIP R	100	J 1/16W		5
R293			RK73GB1J101J	CHIP R	100	J 1/16W	V2	9
R294,295			RK73GB1J472J	CHIP R	4.7K	J 1/16W		
R296			RK73GB1J104J	CHIP R	100K	J 1/16W		
R297			RK73GB1J101J	CHIP R	100	J 1/16W		
R299			RS14KB3D2R2J	FL-PROOF RS	2.2	J 2W		
R515,516			RK73GB1J331J	CHIP R	330	J 1/16W		
R519			RK73GB1J100J	CHIP R	10	J 1/16W		
R521			RK73GB1J2R2J	CHIP R	2.2	J 1/16W		
R522-526			RK73GB1J472J	CHIP R	4.7K	J 1/16W		
R527,528			RK73GB1J332J	CHIP R	3.3K	J 1/16W		
R529,530			RK73GB1J101J	CHIP R	100	J 1/16W		
R531			RK73GB1J273J	CHIP R	27K	J 1/16W		
R532-536			RK73GB1J223J	CHIP R	22K	J 1/16W		
R538			RK73GB1J112J	CHIP R	1.1K	J 1/16W		
R539			RK73GB1J122J	CHIP R	1.2K	J 1/16W		
R540			RK73GB1J112J	CHIP R	1.1K	J 1/16W		
R541,542			RK73GB1J222J	CHIP R	2.2K	J 1/16W		
R543			RK73GB1J332J	CHIP R	3.3K	J 1/16W		
R544			RK73GB1J622J	CHIP R	6.2K	J 1/16W		
R545			RK73GB1J133J	CHIP R	13K	J 1/16W		
R547			RK73GB1J112J	CHIP R	1.1K	J 1/16W		

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Ref. No	Address	New Parts	Parts No.	Description			Destination	Remarks
R548			RK73GB1J122J	CHIP R	1.2K	J 1/16W		
R549			RK73GB1J112J	CHIP R	1.1K	J 1/16W		
R550,551			RK73GB1J222J	CHIP R	2.2K	J 1/16W		
R552			RK73GB1J332J	CHIP R	3.3K	J 1/16W		
R553			RK73GB1J622J	CHIP R	6.2K	J 1/16W		
R554,555			RK73GB1J103J	CHIP R	10K	J 1/16W		
R556			RK73GB1J473J	CHIP R	47K	J 1/16W		6
R556			RK73GB1J473J	CHIP R	47K	J 1/16W	HTE	5
R557,558			RK73GB1J101J	CHIP R	100	J 1/16W		6
R557,558			RK73GB1J101J	CHIP R	100	J 1/16W	HTE	5
R559			RK73GB1J1R0J	CHIP R	1	J 1/16W		6
R559			RK73GB1J1R0J	CHIP R	1	J 1/16W	HTE	5
R601,602			RK73GB1J912J	CHIP R	9.1K	J 1/16W		
R603,604			RK73GB1J224J	CHIP R	220K	J 1/16W		
R605			RD14BB2C102J	RD	1.0K	J 1/6W		5
R605			RD14BB2C102J	RD	1.0K	J 1/6W	V2	9
R606			RK73GB1J102J	CHIP R	1.0K	J 1/16W		5
R606			RK73GB1J102J	CHIP R	1.0K	J 1/16W	V2	9
R609,610			RK73GB1J682J	CHIP R	6.8K	J 1/16W		
R611,612			RK73GB1J103J	CHIP R	10K	J 1/16W		
R613,614			RK73GB1J102J	CHIP R	1.0K	J 1/16W		
R615			RK73GB1J100J	CHIP R	10	J 1/16W		
R616			RK73GB1J391J	CHIP R	390	J 1/16W		
R617,618			RK73GB1J222J	CHIP R	2.2K	J 1/16W		
R629			RS14KB3AR22J	FL-PROOF RS	0.22	J 1W		5
R629			RS14KB3AR22J	FL-PROOF RS	0.22	J 1W	V2	9
R630			RK73GB1J473J	CHIP R	47K	J 1/16W		68
R630			RK73GB1J473J	CHIP R	47K	J 1/16W	V1	9
R631			RK73GB1J473J	CHIP R	47K	J 1/16W		5
R631			RK73GB1J473J	CHIP R	47K	J 1/16W	V2	9
R701			RK73GB1J104J	CHIP R	100K	J 1/16W		
R702			RK73GB1J102J	CHIP R	1.0K	J 1/16W		
R703			RK73GB1J103J	CHIP R	10K	J 1/16W		
R704			RK73GB1J102J	CHIP R	1.0K	J 1/16W		
R705			RK73GB1J103J	CHIP R	10K	J 1/16W		
R706			RK73GB1J101J	CHIP R	100	J 1/16W		
R708			RK73GB1J2R2J	CHIP R	2.2	J 1/16W		
R710			RK73GB1J103J	CHIP R	10K	J 1/16W		6
R710			RK73GB1J103J	CHIP R	10K	J 1/16W	HTE	5
R710			RK73GB1J223J	CHIP R	22K	J 1/16W	MIX	9
R710			RK73GB1J223J	CHIP R	22K	J 1/16W	MIX	5
R710			RK73GB1J223J	CHIP R	22K	J 1/16W	M1I1M2	8
R710			RK73GB1J393J	CHIP R	39K	J 1/16W	X1	8
R710			RK73GB1J682J	CHIP R	6.8K	J 1/16W	KP	8
R711			RK73GB1J103J	CHIP R	10K	J 1/16W		8
R711			RK73GB1J103J	CHIP R	10K	J 1/16W	MIX	5
R712			RD14BB2C101J	RD	100	J 1/6W		6
R712			RD14BB2C101J	RD	100	J 1/6W	HTE	5
R713			RK73GB1J101J	CHIP R	100	J 1/16W		
R717			RK73GB1J101J	CHIP R	100	J 1/16W		
R718,719			RK73GB1J512J	CHIP R	5.1K	J 1/16W		
R720			RK73GB1J473J	CHIP R	47K	J 1/16W		
R721			RK73GB1J103J	CHIP R	10K	J 1/16W		
R722			RK73GB1J102J	CHIP R	1.0K	J 1/16W		
R724			RK73FB2A475J	CHIP R	4.7M	J 1/10W		

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R725			RK73GB1J104J	CHIP R	100K	J 1/16W		
R726			RK73GB1J101J	CHIP R	100	J 1/16W		5
R726			RK73GB1J101J	CHIP R	100	J 1/16W	V2	9
R727			RK73GB1J101J	CHIP R	100	J 1/16W		
R728,729			RK73GB1J331J	CHIP R	330	J 1/16W		
R730,731			RK73GB1J101J	CHIP R	100	J 1/16W		
R732			RK73GB1J473J	CHIP R	47K	J 1/16W		
R733			RK73GB1J103J	CHIP R	10K	J 1/16W		
R734			RK73GB1J473J	CHIP R	47K	J 1/16W		
R735			RK73GB1J103J	CHIP R	10K	J 1/16W		
R736,737			RK73GB1J101J	CHIP R	100	J 1/16W		
R738			RK73GB1J473J	CHIP R	47K	J 1/16W		
R739			RK73GB1J102J	CHIP R	1.0K	J 1/16W		
R740-742			RK73GB1J101J	CHIP R	100	J 1/16W		
R744			RK73GB1J101J	CHIP R	100	J 1/16W		
R745,746			RK73GB1J473J	CHIP R	47K	J 1/16W		
R747,748			RK73GB1J101J	CHIP R	100	J 1/16W		
R749			RK73GB1J473J	CHIP R	47K	J 1/16W		
R751			RK73GB1J102J	CHIP R	1.0K	J 1/16W		
R752			RK73GB1J104J	CHIP R	100K	J 1/16W		
R755			RK73GB1J473J	CHIP R	47K	J 1/16W		
R760-764			RK73GB1J472J	CHIP R	4.7K	J 1/16W		
R765			RK73GB1J273J	CHIP R	27K	J 1/16W		
R766			RK73GB1J103J	CHIP R	10K	J 1/16W		
R768-776			RK73GB1J101J	CHIP R	100	J 1/16W		
R777			RK73GB1J332J	CHIP R	3.3K	J 1/16W		
R778			RK73GB1J103J	CHIP R	10K	J 1/16W		
R779			RK73GB1J472J	CHIP R	4.7K	J 1/16W		
R780-784			RK73GB1J332J	CHIP R	3.3K	J 1/16W		
R789			RK73GB1J101J	CHIP R	100	J 1/16W		
R790,791			RK73GB1J473J	CHIP R	47K	J 1/16W		
R795			RK73GB1J332J	CHIP R	3.3K	J 1/16W		
R799			RK73GB1J102J	CHIP R	1.0K	J 1/16W		
R800			RK73GB1J101J	CHIP R	100	J 1/16W		6
R800			RK73GB1J101J	CHIP R	100	J 1/16W	HTE	5
R803-805			RK73GB1J104J	CHIP R	100K	J 1/16W		
R808			RK73GB1J103J	CHIP R	10K	J 1/16W		
R809,810			RK73GB1J104J	CHIP R	100K	J 1/16W		
R811			RK73GB1J473J	CHIP R	47K	J 1/16W		
W34			R92-0679-05	CHIP R	0 OHM			
W200			R92-0670-05	CHIP R	0 OHM			
W201-206			R92-1252-05	CHIP R	0 OHM			
W208			R92-1252-05	CHIP R	0 OHM			
W210			R92-0679-05	CHIP R	0 OHM			
W213			R92-0679-05	CHIP R	0 OHM			
W215			R92-0679-05	CHIP R	0 OHM			
W216,217			R92-1252-05	CHIP R	0 OHM			
W218			R92-0679-05	CHIP R	0 OHM			
W219			R92-1252-05	CHIP R	0 OHM			
W220			R92-0679-05	CHIP R	0 OHM			
W221			R92-1252-05	CHIP R	0 OHM			
W222			R92-0679-05	CHIP R	0 OHM			
W307			R92-1252-05	CHIP R	0 OHM			
W334			R92-1252-05	CHIP R	0 OHM			
W373			R92-0679-05	CHIP R	0 OHM			

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W392			R92-0679-05	CHIP R 0 OHM		
W393			R92-0670-05	CHIP R 0 OHM		
W394,395			R92-1252-05	CHIP R 0 OHM		
W397			R92-1252-05	CHIP R 0 OHM		
W527-531			R92-0670-05	CHIP R 0 OHM		
W534			R92-0679-05	CHIP R 0 OHM		
K1			S76-0098-05	MAGNETIC RELAY		
S501-517			S70-0031-05	TACT SWITCH		
S518			T99-0634-05	ROTARY ENCODER		
D1			HZS3.9N(B)	ZENER DIODE		
D1			MTZJ3.9(B)	ZENER DIODE		
D1			RD3.9ES(B)	ZENER DIODE		
D2			MTZJ8.2(B)	ZENER DIODE		
D2			RD8.2ES(B)	ZENER DIODE		
D3 ,4			HSS104A	DIODE		
D3 ,4			1SS133	DIODE		
D5			HZS5.1N(B)	ZENER DIODE		
D5			MTZJ5.1(B)	ZENER DIODE		
D5			RD5.1ES(B)	ZENER DIODE		
D8			HSS104A	DIODE		
D8			1SS133	DIODE		
⚠ D101			D3SBA20F03	DIODE		
⚠ D102-104			S5688B	DIODE		
D105			HZS20N(B)	ZENER DIODE		
D105			MTZJ20(B)	ZENER DIODE		
D105			RD20ES(B)	ZENER DIODE		
D106			HZS15N(B)	ZENER DIODE		
D106			MTZJ15(B)	ZENER DIODE		
D106			RD15ES(B)	ZENER DIODE		
D107			DAP202U	DIODE		
D107			MA142WA	DIODE		
D107			1SS300	DIODE		
D108			MTZJ8.2(B)	ZENER DIODE		
D108			RD8.2ES(B)	ZENER DIODE		
D109			HSS104A	DIODE		
D109			1SS133	DIODE		
D110			HZS10N(B)	ZENER DIODE		
D110			MTZJ10(B)	ZENER DIODE		
D110			RD10ES(B)	ZENER DIODE		
D111			HSS104A	DIODE		
D111			1SS133	DIODE		
D115			HSS104A	DIODE		
D115			1SS133	DIODE		
⚠ D119			D2SBA20F03	DIODE		
⚠ D120			D3SBA20F03	DIODE		
D201			MA111	DIODE		
D501			HZS6.2N(B)	ZENER DIODE		
D501			MTZJ6.2(B)	ZENER DIODE		
D501			RD6.2ES(B)	ZENER DIODE		
D601			1SS402	DIODE		
D603			MA111	DIODE		
D604			HZS5.6N(B)	ZENER DIODE		
D604			MTZJ5.6(B)	ZENER DIODE		

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D604			RD5.6ES(B)	ZENER DIODE		
ED501			HNA-16MM30T	FLUORESCENT INDICATOR TUBE		
IC1			LM4766T	ANALOGUE IC		
IC21		✻	AN8806SBM	ANALOGUE IC		
IC22			MN662748RPMFA	MOS-IC		
IC23			AN4801SB-E1	ANALOGUE IC		
IC24			NJM4565M	ANALOGUE IC		
⚠ IC25			TA7805SB	ANALOGUE IC		
IC26			TA8409S	MOS-IC		
IC27			HD74LV1G08A	MOS-IC		5
IC27			HD74LV1G08A	MOS-IC	V2	9
⚠ IC101			TA7809SB	ANALOGUE IC		
⚠ IC102			KIA7805API	ANALOGUE IC		
IC501		✻	M66005-001FP	MOS-IC		
IC502			BU1923F	ANALOGUE IC		6
IC502			BU1923F	ANALOGUE IC	HTE	5
IC601			M61510FP	ANALOGUE IC		
IC701		✻	MN101C49HLC	MI-COM IC		68
IC701		✻	MN101C49HLC	MI-COM IC	V1	9
IC701		✻	MN101C49KLB	MI-COM IC		5
IC701		✻	MN101C49KLB	MI-COM IC	V2	9
IC702			S-80840ANY	ANALOGUE IC		
Q1			2SA1576A(R,S)	TRANSISTOR		
Q1			2SB1218A(Q,R)	TRANSISTOR		
Q2 ,3			2SC2878(B)	TRANSISTOR		
Q4 ,5			2SA1576A(R,S)	TRANSISTOR		
Q4 ,5			2SB1218A(Q,R)	TRANSISTOR		
Q6 ,7			2SC4081(R,S)	TRANSISTOR		
Q6 ,7			2SD1819A(Q,R)	TRANSISTOR		
Q10			DTC113ZSA	DIGITAL TRANSISTOR		
Q10			UN4219	DIGITAL TRANSISTOR		
⚠ Q101			2SA1534A(R,S)	TRANSISTOR		
⚠ Q102		✻	2SD2641	TRANSISTOR		
Q103			2SC4081(R,S)	TRANSISTOR		
Q103			2SD1819A(Q,R)	TRANSISTOR		
Q104			DTC124EUA	DIGITAL TRANSISTOR		
Q104			UN5212	DIGITAL TRANSISTOR		
Q201			2SA1577(Q,R)	TRANSISTOR		
Q203			2SC4081(R,S)	TRANSISTOR		5
Q203			2SC4081(R,S)	TRANSISTOR	V2	9
Q203			2SD1819A(Q,R)	TRANSISTOR		5
Q203			2SD1819A(Q,R)	TRANSISTOR	V2	9
Q204			DTC124EUA	DIGITAL TRANSISTOR		
Q204			UN5212	DIGITAL TRANSISTOR		
⚠ Q205			2SA1286-T11	TRANSISTOR		
Q206			2SA1577(Q,R)	TRANSISTOR		
Q207			2SC4081(R,S)	TRANSISTOR		
Q207			2SD1819A(Q,R)	TRANSISTOR		
Q501,502			HN1C01F	DUAL TRANSISTOR		
Q503			2SC4081(R,S)	TRANSISTOR		
Q503			2SD1819A(Q,R)	TRANSISTOR		
Q601			2SC4081(R,S)	TRANSISTOR		
Q601			2SD1819A(Q,R)	TRANSISTOR		
Q602			2SD1664(Q,R)	TRANSISTOR		568
Q602			2SD1963(R,S)	TRANSISTOR		

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Ref. No	Address	New Parts	Parts No.	Description			Destination	Remarks
Q603			DTC113ZUA	DIGITAL TRANSISTOR				
Q603			UN5219	DIGITAL TRANSISTOR				
A501		✻	W02-2759-05	ELECTRIC CIRCUIT MODULE				
A601			W02-1114-15	OSCILLATING MODULE				68
A601			W02-1114-15	OSCILLATING MODULE			V1	9
MD CONTROL (X33-1260-00)								
C1			CK73GB1C104K	CHIP C	0.10UF	K		
C2 ,3			CE32AP0J101M	CHIP EL	100UF	6.3WV		
C5			CK73GB1C104K	CHIP C	0.10UF	K		
C7			CK73GB0J474K	CHIP C	0.47UF	K		
C8			CK73GF1E104Z	CHIP C	0.10UF	Z		
C8			CK73GF1H104Z	CHIP C	0.10UF	Z		
C9			CK73GB1H472K	CHIP C	4700PF	K		
C10			CC73GCH1H101J	CHIP C	100PF	J		
C11			CK73GB0J474K	CHIP C	0.47UF	K		
C12			CK73GB1E153K	CHIP C	0.015UF	K		
C13			CK73GF1E104Z	CHIP C	0.10UF	Z		
C13			CK73GF1H104Z	CHIP C	0.10UF	Z		
C14			CC73GCH1H100D	CHIP C	10PF	D		
C18			CK73GB1E103K	CHIP C	0.010UF	K		
C22 ,23			CK73GF1E104Z	CHIP C	0.10UF	Z		
C22 ,23			CK73GF1H104Z	CHIP C	0.10UF	Z		
C30			CE32AP1C100M	CHIP EL	10UF	16WV		
C31			CE32AP0J101M	CHIP EL	100UF	6.3WV		
C32			CK73GB1H222K	CHIP C	2200PF	K		
C35			C92-0232-05	ELECTRO	10UF	16WV		
C36			CK73GF1E104Z	CHIP C	0.10UF	Z		
C36			CK73GF1H104Z	CHIP C	0.10UF	Z		
C37			CK73GB1H222K	CHIP C	2200PF	K		
C38			CK73GF1E104Z	CHIP C	0.10UF	Z		
C38			CK73GF1H104Z	CHIP C	0.10UF	Z		
C39			C92-0232-05	ELECTRO	10UF	16WV		
C40			C91-1597-05	CERAMIC	4.7UF	Z		
C41			C93-0032-05	CHIP C	10UF	10WV		
C42 ,43			CK73GB1H471K	CHIP C	470PF	K		
C45			CE32AP0J101M	CHIP EL	100UF	6.3WV		
C46 -48			CK73GF1E104Z	CHIP C	0.10UF	Z		
C46 -48			CK73GF1H104Z	CHIP C	0.10UF	Z		
C51			C92-0232-05	ELECTRO	10UF	16WV		
C52			CK73GF1E104Z	CHIP C	0.10UF	Z		
C52			CK73GF1H104Z	CHIP C	0.10UF	Z		
C54			CK73GB1E223K	CHIP C	0.022UF	K		
C55			CK73GB1H102K	CHIP C	1000PF	K		
C56			CK73GF1A105Z	CHIP C	1.0UF	Z		
C57			CK73GB1C104K	CHIP C	0.10UF	K		
C58			CK73GB1E103K	CHIP C	0.010UF	K		
C59			CK73GB1E223K	CHIP C	0.022UF	K		
C60			CE32AP1C100M	CHIP EL	10UF	16WV		
C62			CK73GB1C104K	CHIP C	0.10UF	K		
C63			CK73GB1E103K	CHIP C	0.010UF	K		
C64			CK73GB1E223K	CHIP C	0.022UF	K		
C65			CK73GB1A224K	CHIP C	0.22UF	K		
C66			CK73GF1A105Z	CHIP C	1.0UF	Z		
C67			CK73GB1H472K	CHIP C	4700PF	K		

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C68			CK73GB1C683K	CHIP C	0.068UF	K			
C69			CK73GB1E223K	CHIP C	0.022UF	K			
C71 ,72			CK73GF1E104Z	CHIP C	0.10UF	Z			
C71 ,72			CK73GF1H104Z	CHIP C	0.10UF	Z			
C73 ,74			CK73GF1A105Z	CHIP C	1.0UF	Z			
C75			CK73GF1E104Z	CHIP C	0.10UF	Z			
C75			CK73GF1H104Z	CHIP C	0.10UF	Z			
C76			CK73GB0J474K	CHIP C	0.47UF	K			
C80			CE32AP0J101M	CHIP EL	100UF	6.3WV			
C81			CK73GF1E104Z	CHIP C	0.10UF	Z			
C81			CK73GF1H104Z	CHIP C	0.10UF	Z			
C82 -85			CK73GB1H152K	CHIP C	1500PF	K			
C86 -89			CC73GCH1H391J	CHIP C	390PF	J			
CN1			E40-8401-05	FLAT CABLE CONNECTOR					
CN3			E40-8687-05	FLAT CABLE CONNECTOR					
L1 -4			L79-1216-05	LINE FILTER					
L1 -4			L92-0075-05	CHIP FERRITE					
L8			L79-1216-05	LINE FILTER					
L8			L92-0075-05	CHIP FERRITE					
X1			L77-2328-05	CRYSTAL OSCILLATOR(16.9344MHZ)					
X2			L78-0722-05	OSCILLATOR	(10MHZ)				
R3 -6			RK73GB1J221J	CHIP R	220	J	1/16W		
R8 -10			RK73GB1J103J	CHIP R	10K	J	1/16W		
R12			RK73GB1J3R3J	CHIP R	3.3	J	1/16W		
R14			RK73GB1J104J	CHIP R	100K	J	1/16W		
R15			RK73GB1J684J	CHIP R	680K	J	1/16W		
R16			RK73GB1J101J	CHIP R	100	J	1/16W		
R17			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R18			RK73GB1J332J	CHIP R	3.3K	J	1/16W		
R19			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R20			RK73GB1J151J	CHIP R	150	J	1/16W		
R21 ,22			RK73GB1J103J	CHIP R	10K	J	1/16W		
R23			RK73GB1J104J	CHIP R	100K	J	1/16W		
R24 -26			RK73GB1J101J	CHIP R	100	J	1/16W		
R30			R92-1969-05	METAL GLAZE	200	F	1/16W		
R31			R92-1970-05	METAL GLAZE	360	F	1/16W		
R35			RK73GB1J1R0J	CHIP R	1	J	1/16W		
R36 ,37			RK73GB1J101J	CHIP R	100	J	1/16W		
R39 ,40			RK73GB1J471J	CHIP R	470	J	1/16W		
R41			RK73GB1J221J	CHIP R	220	J	1/16W		
R42			RK73GB1J133J	CHIP R	13K	J	1/16W		
R43			RK73GB1J183J	CHIP R	18K	J	1/16W		
R45			RK73GB1J332J	CHIP R	3.3K	J	1/16W		
R46			RK73GB1J4R7J	CHIP R	4.7	J	1/16W		
R47 ,48			RK73GB1J473J	CHIP R	47K	J	1/16W		
R49			RK73GB1J472J	CHIP R	4.7K	J	1/16W		
R50			RK73GB1J101J	CHIP R	100	J	1/16W		
R51			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R52 -55			RK73GB1J474J	CHIP R	470K	J	1/16W		
R56 -58			RK73GB1J473J	CHIP R	47K	J	1/16W		
R59 ,60			RK73GB1J103J	CHIP R	10K	J	1/16W		
R62			RK73GB1J473J	CHIP R	47K	J	1/16W		
R64			RK73GB1J473J	CHIP R	47K	J	1/16W		

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R65 ,66			RK73GB1J101J	CHIP R	100	J 1/16W		
R67 -69			RK73GB1J473J	CHIP R	47K	J 1/16W		
R70			RK73GB1J3R3J	CHIP R	3.3	J 1/16W		
R71			RK73GB1J563J	CHIP R	56K	J 1/16W		
R72 ,73			RK73GB1J133J	CHIP R	13K	J 1/16W		
R75 ,76			RK73GB1J104J	CHIP R	100K	J 1/16W		
R77			RK73GB1J103J	CHIP R	10K	J 1/16W		
R78			RK73GB1J101J	CHIP R	100	J 1/16W		
R79			RK73GB1J561J	CHIP R	560	J 1/16W		
R80			RK73GB1J101J	CHIP R	100	J 1/16W		
R82			RK73GB1J101J	CHIP R	100	J 1/16W		
R83 ,84			RK73GB1J103J	CHIP R	10K	J 1/16W		
R85			RK73GB1J222J	CHIP R	2.2K	J 1/16W		
R86			RK73GB1J474J	CHIP R	470K	J 1/16W		
R87			RK73GB1J335J	CHIP R	3.3M	J 1/16W		
R88			RK73GB1J474J	CHIP R	470K	J 1/16W		
R89			RK73GB1J472J	CHIP R	4.7K	J 1/16W		
R93			RK73GB1J472J	CHIP R	4.7K	J 1/16W		
R94			RK73GB1J681J	CHIP R	680	J 1/16W		
R95			RK73GB1J472J	CHIP R	4.7K	J 1/16W		
R96			RK73GB1J104J	CHIP R	100K	J 1/16W		
R97			R92-1853-05	CHIP-RN	1	1/4W		
R98			R92-1854-05	RN	2.2	K 1/2W		
R99			RK73GB1J103J	CHIP R	10K	J 1/16W		
R100			RK73GB1J473J	CHIP R	47K	J 1/16W		
R101-103			RK73GB1J102J	CHIP R	1.0K	J 1/16W		
R112,113			RK73GB1J223J	CHIP R	22K	J 1/16W		
R114,115			RK73GB1J104J	CHIP R	100K	J 1/16W		
R116			RK73GB1J1R0J	CHIP R	1	J 1/16W		
R117,118			RK73GB1J183J	CHIP R	18K	J 1/16W		
R119,120			RK73GB1J104J	CHIP R	100K	J 1/16W		
R121			RK73GB1J183J	CHIP R	18K	J 1/16W		
R122,123			RK73GB1J104J	CHIP R	100K	J 1/16W		
R124-126			RK73GB1J183J	CHIP R	18K	J 1/16W		
R127,128			RK73GB1J104J	CHIP R	100K	J 1/16W		
R129			RK73GB1J514J	CHIP R	510K	J 1/16W		
W2 -6			R92-0679-05	CHIP R	0 OHM			
S1			S68-0133-05	PUSH SWITCH				
S2 ,3			S64-0052-05	LEVER SWITCH				
S4			S68-0132-05	PUSH SWITCH				
S5			S64-0052-05	LEVER SWITCH				
D1 ,2			FS1J6TP	DIODE				
D3 ,4			MA111	DIODE				
D5 ,6			S1B	DIODE				
IC1			CXD2662R	MOS-IC				
IC2			CXA2523AR	IC(RF SERVO)				
IC2			CXA2523AR*	IC				
IC3			HD6432227N14FA	IC				
IC4			BA5984FP	IC(CD POWER DRIVER)				
IC5			LC32S4400T-10	IC				
⚠ IC6			RC1117ST	IC				
IC7			BR24C02F	IC(E2PROM)				
IC7			S-24C02BFJ-TB	IC(MEMORY IC)				
IC8			BD7910FV	MOS-IC				

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IC10			AK4550VT	MOS-IC			
IC11			C6006AZ	IC			
Q1			UMW1N	TRANSISTOR			
Q2			2SA1576A(R,S)	TRANSISTOR			
Q3			2SB798-DL	TRANSISTOR			
Q4			DTA144EUA	DIGITAL TRANSISTOR			
Q5 ,6			DTC114YUA	DIGITAL TRANSISTOR			
Q7			DTA124EUA	DIGITAL TRANSISTOR			
Q8			DTC124EUA	DIGITAL TRANSISTOR			
Q9			2SA1576A(R,S)	TRANSISTOR			
Q10			DTC124EUA	DIGITAL TRANSISTOR			
Q11			DTA144EUA	DIGITAL TRANSISTOR			
CD MECHANISM (D40-1714-05)							
1	1B	✻	A10-3554-08	LOADING CHS	LCHSM0127AWZZ		
5	2B		D10-3606-08	ROD			
6	1A	✻	D13-2557-08	RACK GEAR	NGERR0005AWZZ		
7	1A	✻	D13-2558-08	TRAY GEAR	NGERH0146AWZZ		
9	2B		D13-1720-08	DRIVING GEAR			
10	1B	✻	D15-0444-08	DRIVE PULLEY	NPLYR0010AWZZ		
11	1B	✻	D16-0770-08	DRIVE BELT	NBLTK0040AWZZ		
13	2B		E35-2322-08	CONE WIRE	QCNWN1379AWZZ		
15	2B,3B	✻	J02-1511-05	INSULATOR			
16	2B	✻	J11-0868-08	CLAMPER	LHLDM1015AWZZ		
18	3A	✻	J19-6221-08	MEC HOLDER	LHLDZ1341AWZZ		
20	2A	✻	J99-0831-08	DISC HOLDER	GCOVA1386AWSA		
25	2B		S74-0080-08	LEAF SWITCH	SWICHL1749A		
26	3B		S74-0038-08	LEAF SWITCH			
28	3B		E40-3264-05	CONNECTOR			
30	1B		T99-0609-08	MAGNET	PMAGF0001AWZZ		
DM	3B		A11-1082-18	MOTOR CHS ASSY	DISC		
FM	3B		T42-0817-08	MOTOR ASSY	FEED		
LM	2B	✻	T42-1113-08	MOTOR ASSY	TRAY		
⚠ PU	2A		T25-0061-08	PICKUP ASSY	KSS-213C		
MD MECHANISM (D40-1715-05)							
201	1D		A10-3531-08	CHASSIS	TU		
202	2D		J19-6125-08	BRACKET ASSY			
203	2D		G02-1716-08	FLAT SPRING	THRUST		
204	3C		D13-2510-08	RACK	GEAR		
205	2D		D10-3958-08	LEVER	LIMIT		
206	2C		A11-1189-08	SUB CHASSIS ASSY			
207	2C		D10-3959-08	ARM ASSY	MAIN		
208	2C		D10-3961-08	LEVER ASSY	HEAD		
209	1C		D10-3963-08	SLIDER	MAIN		
210	2C		D13-2511-08	GEAR	FINAL		
211	3C		J19-6127-08	HOLD ASSY			
212	2D		A15-0106-08	FRAME			
213	1C		F11-0503-08	SHIELD CASE			
215	2D		D10-3982-08	ROD	SUB		
216	2D		D10-3957-08	ROD			
218	1D		A11-1187-08	SUB CHASSIS ASSY,TU			
219	1D		D13-2504-08	GEAR	LOAD A		
220	2D		D13-2505-08	GEAR	LOAD B		
221	2D		D13-2516-08	GEAR	LOAD C		
224	2D		D13-2509-08	GEAR	INTERMEDIATE		

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

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-M33MD-S/L/N	*5*	-	-	-	T	-	-	-	-
RXD-M33MD-S		X	-	-	-	E	-	-	I
RXD-M33MD-L		-	-	-	-	-	-	H	-
RXD-M33-S/L/N	*6*	-	-	-	T1	E1	-	-	-
RXD-M33-S/L		-	-	-	-	-	-	H1	-
RXD-M33E-S/L/N		-	-	-	-	E2	-	-	-
RXD-M33-S/L	*8*	X1	P	-	-	-	-	-	I1
RXD-M33-N		-	-	-	-	-	-	-	-
RXD-M33-L/N(M2)		-	-	-	-	-	-	-	-
RXD-M33-L	*9*	-	-	-	-	-	-	-	-
RXD-M33MD-N		-	-	-	-	-	-	-	-

MODEL	*ABB.*	*Mexico*	*PX/AAFES*	*Russia*	*Scandinavia*	*Shanghai*	*USA*	*Other area*	
RXD-M33MD-S/L/N	*5*	-	-	-	-	-	-	M	-
RXD-M33MD-S		-	-	-	-	-	-	-	-
RXD-M33MD-L		-	-	-	-	-	-	-	-
RXD-M33-S/L/N	*6*	-	-	-	-	-	-	-	-
RXD-M33-S/L		-	-	-	-	-	-	-	-
RXD-M33E-S/L/N		-	-	-	-	-	-	-	-
RXD-M33-S/L	*8*	-	-	-	-	-	K	M1	-
RXD-M33-N		-	-	-	-	-	-	M1	-
RXD-M33-L/N(M2)		-	-	-	-	-	-	M2	-
RXD-M33-L	*9*	-	-	-	-	V1	-	-	-
RXD-M33MD-N		-	-	-	-	V2	-	-	-

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

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Ref. No	Add-ress	New Parts	Parts No.	Description		Desti-nation	Re-marks
225	3C		D10-3964-08	SLIDER	LOAD		
226	3C		D10-3965-08	ARM	LOAD		
227	2D		J02-1492-08	INSULATOR			
228	1D		G01-4230-08	TORSION SPRING SPM			
229	2D		G01-4231-08	TENSION SPRING			
230	2C		G01-4235-08	TENSION SPRING			
231	2C		G01-4233-08	TORSION SPRING			
232	3C		G01-4234-08	TENSION SPRING			
233	3D		N39-1745-46	SCREW	M1.7X4.5		
234	3C		N09-3104-05	SCREW	M1.7X2		
235	3C,2D		N09-3279-05	SCREW	M1.7X3		
236	2C,2D		N09-5113-08	SCREW	1.7X7		
237	2D		N09-5229-08	SCREW	1.4X1.8		
238	1D		N09-5230-08	SCREW	1.4X2.2		
239	1D,2D		N09-5231-08	SCREW	1.7X4		
240	1C		N86-2004-46	SCREW	2X4		
241	2C,2D		N19-0366-04	FLAT WASHER	2.1X4X0.5		
242	2D		N19-1511-08	FLAT WASHER	2.5X0.9X0.25		
243	2C		N19-1171-04	FLAT WASHER	1.6X3.5X0.25		
244	2D		N09-5285-08	SCREW	M1.7X4.5		
250	3D,2G	✻	E35-2824-08	FLAT CABLE			
251	3D		E35-2348-18	FLAT CABLE	PU,21P		
255	2D		D13-2506-08	GEAR ASSY			
256	3D		G16-1236-08	SHEET			
257	3D		G11-2825-08	TAPE			
DMMD	1D		T42-0983-05	MOTOR ASSY			
FMMD	2C		T42-0985-08	MOTOR ASSY	FEED		
LMMD	1D		T42-0984-08	MOTOR ASSY	LOAD		
PUMD	3C		T25-0085-05	PICKUP			
RHMD	3C		T30-0027-05	RECORD HEAD			

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RXD-M33/M33MD

SPECIFICATIONS

Main unit

[Amplifier section]

(For U.S.A. and Canada)
Rated output power during STEREO operation (FTC)

21 watts per channel minimum RMS, both channels driven, at 6 Ω from 90 Hz to 15 kHz with no more than 10 % total harmonic distortion.

(For U.K. and Europe)
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)..... 18 W + 18 W
(For Singapore)
Rated output power during STEREO operation
(1 kHz, 10% T.H.D., at 6 Ω)..... 20 W + 20 W
(For other countries)
Rated output power during STEREO operation
(1 kHz, 10% T.H.D., at 6 Ω)..... 25 W + 25 W
Frequency response
AUX..... 40 Hz~50 kHz (0 dB ~ -3dB)

[Tuner section]

FM tuner section
Tuning frequency range.....87.5 MHz ~ 108 MHz
MW (AM) tuner section
(For U.S.A. and Canada)
Tuning frequency range.....530 kHz ~ 1,700 kHz
(For U.K. and Europe)
Tuning frequency range.....531 kHz ~ 1,602 kHz
(For Australia)
Tuning frequency range.....531 kHz ~ 1,602 kHz
(For other countries)
Tuning frequency range
9 kHz step.....531 kHz ~ 1,602 kHz
10 kHz step.....530 kHz ~ 1,610 kHz

[CD player section]

Laser .....Semiconductor laser
Over sampling .....8 fs (352.8 Hz)
Laser wave lengh .....760 to 800 nm
Laser power class.....Class 3A (IEC)
D/A Conversion.....1 Bit

[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
Motor 1
Wow and flutter ..... 0.2 % (W.R.M.S.)
Fast winding time .....Approx. 110 seconds
(C-60 tape)

[General]

Power consumption
(For U.S.A., Canada and Singapore)..... 70 W
(For other countries)..... 80 W
Dimensions..... W : 180 mm (7-1/16")
H : 255 mm (8-7/16")
D : 317 mm (12-7/16")
Weight (net)..... 5.1 kg (11.2 lb)

Notes
KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.
• Sufficient performance may not be exhibited at extremely cold locations (where water freezes).

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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