

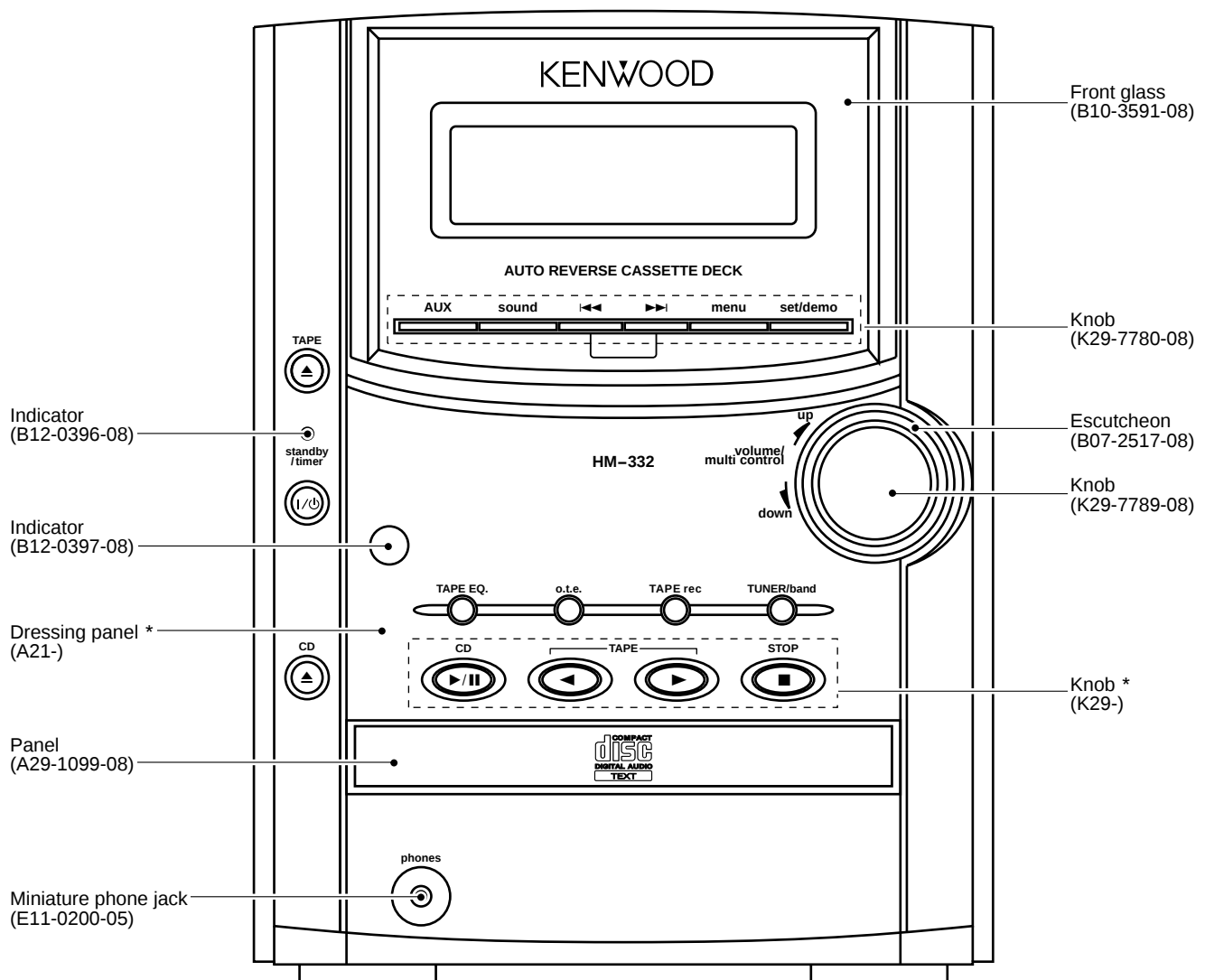
RXD-M32

SERVICE MANUAL

(HM-332)

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Although this service manual is described MD circuit description, it is no concern with RXD-M32(CD/CASSETTE receiver)



* Refer to parts list on page39.

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

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

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



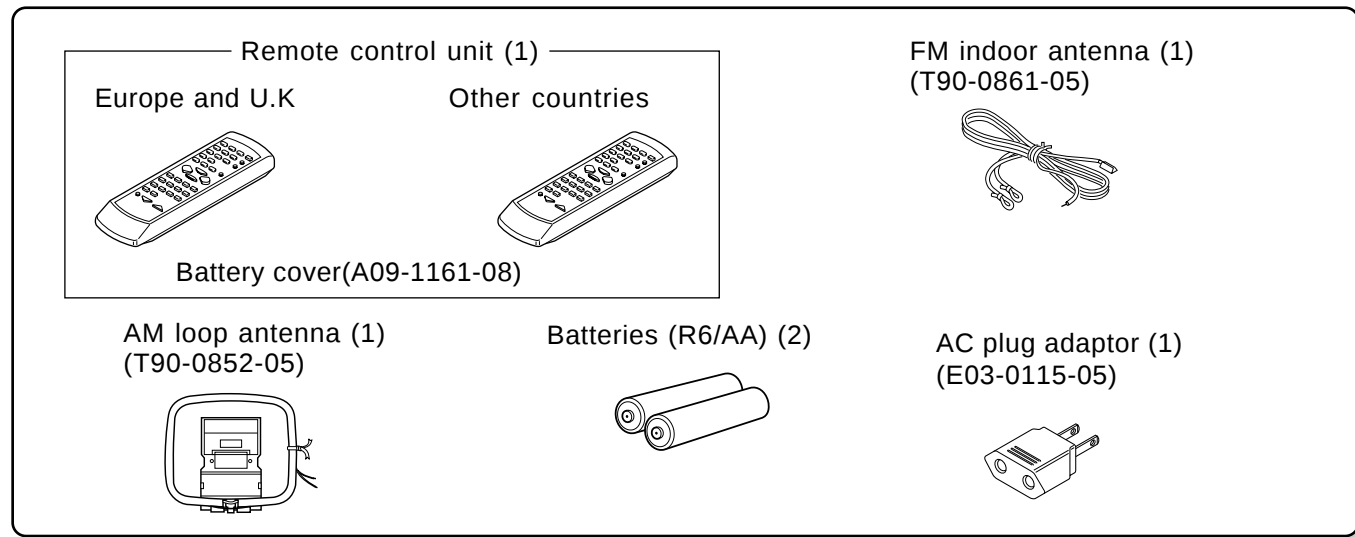
RXD-M32

CONTENTS / ACCESSORIES

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Accessories



System Configuration

SYSTEM	MAIN UNIT	DESTINATION	SPEAKER	COLOR
HM-332-L	RXD-M32-L	ETHMX(L)	LS-M32-L	BLUE
HM-332E-L	RXD-M32E-L	E2(L)	LS-M32-L	BLUE
HM-332-S	RXD-M32-S	KPETHMX(S)	LS-M32-S	SILVER
HM-332E-S	RXD-M32E-S	E2(S)	LS-M32-S	SILVER
HM-332-Y	RXD-M32-Y	E1T1M1(Y)	LS-M32-Y	YELLOW
HM-332E-Y	RXD-M32E-Y	E3(Y)	LS-M32-Y	YELLOW
HM-332-H	RXD-M32-H	ETHMX(H)	LS-M32-H	GRAY
HM-332E-H	RXD-M32E-H	E2(H)	LS-M32-H	GRAY
HM-332-W	RXD-M32-W	E(W)	LS-M32-W	WHITE
HM-332E-W	RXD-M32E-W	E2(W)	LS-M32-W	WHITE
HM-332-LS	RXD-M32-LS	KP(LS)	LS-M32-LS	SKY BLUE

Remocon Configuration

REMOTE CONTROLLER	MODEL NAME	MODEL	DESTINATIONS	COLOR
A70-1380-08	RC-F0100	RXD-M32-L/LS	KPMX	BLUE
A70-1381-08	RC-F0100E	RXD-M32-L	HTEE2	BLUE
A70-1394-08	RC-F0100	RXD-M32-S	KPX	WHITE
A70-1395-08	RC-F0100	RXD-M32-S/H	MX	SILVER
A70-1396-08	RC-F0100E	RXD-M32-Y	T1E1E3	YELLOW
A70-1397-08	RC-F0100E	RXD-M32-W/S/H	HTEE2	SILVER
A70-1398-08	RC-F0100	RXD-M32-Y	M1	YELLOW -S

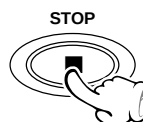
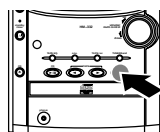
Cautions

Operation to reset

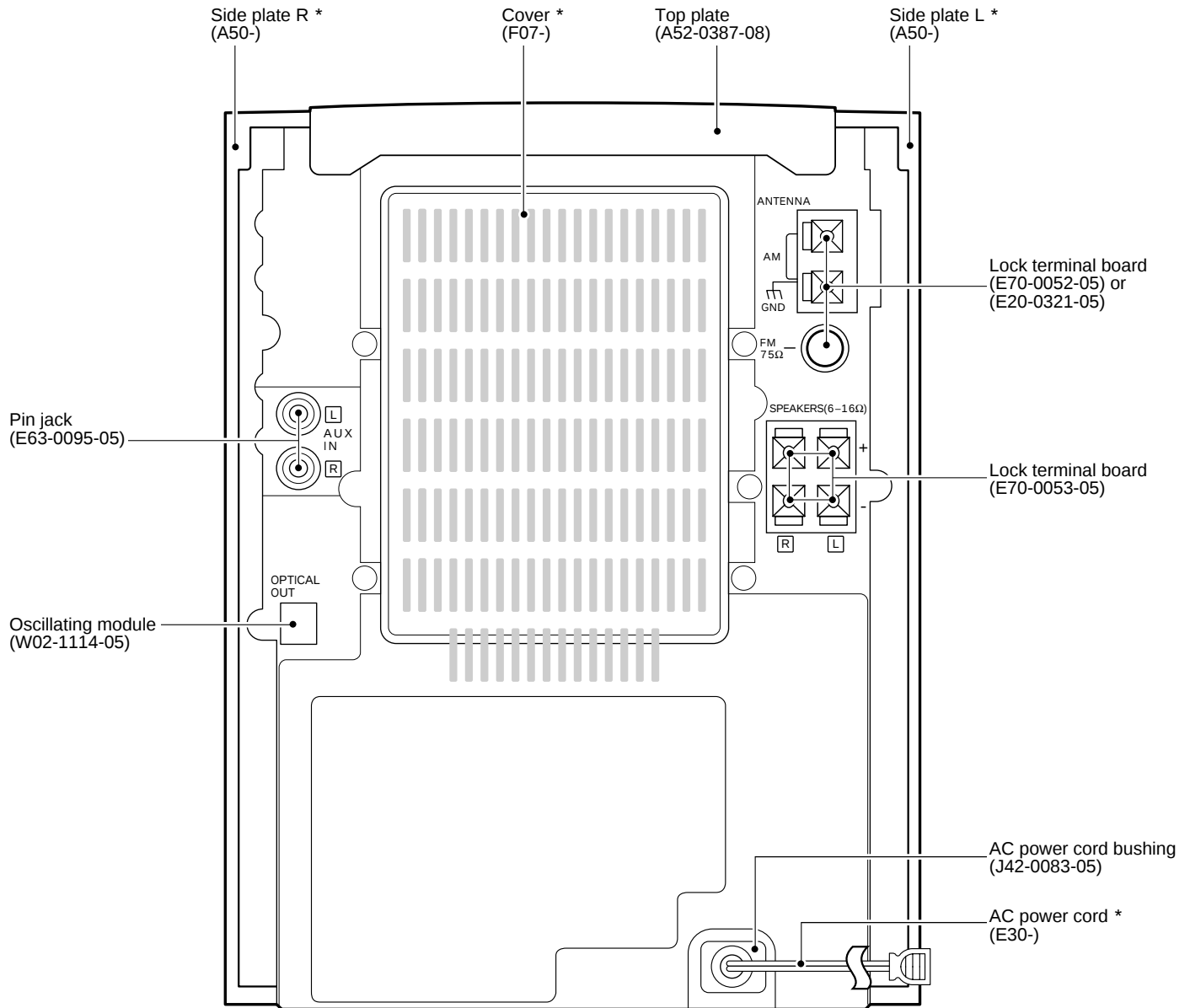
The microcomputer may fall into malfunction (impossibility to operate, erroneous display, etc.) when the power cord is unplugged while unit is ON or due to an external factor. In this case, execute the following procedure to reset the microcomputer and return it to normal condition.

- 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 set/demo key depressed, plug the power cord again.



EXTERNAL VIEW

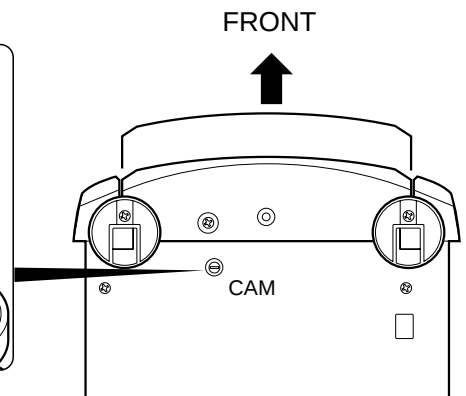
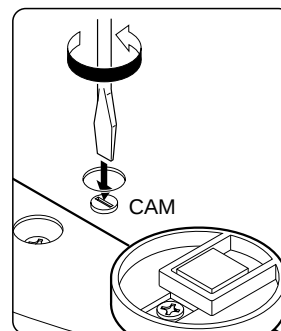


* Refer to parts list on page39.

DISASSEMBLY FOR REPAIR

How to open the tray if not comes out.

- (1) From the bottom side of the CD mechanism, use a screw driver or the like to turn the cam slightly counterclockwise.
- (2) Pull out the tray front wards by hand when the tray comes just out.



CIRCUIT DESCRIPTION

1. Initialization

1-1 Setting of the Initial Conditions

While pressing the (STOP) key, plug the AC cord to AC wall outlet.

1-2 Initializing Operation

- A microcomputer is initialized for start when the AC power is turned on while pressing the [STOP] key.
- At that time, CD,MD and CASSETTE mechanisms are also initialized.
- During the initial conditions, the display shows "INITIALIZE" and after that it will be returned to standby conditions.

1-3 Initial Items

	ITEMS	STATE	REMARKS
AMP	POWER	OFF	
	BACK LIGHT	High	
	VOLUME	10	
	BALANCE	CENTER	
	BASS	0	
	TREBLE	0	
	EX.BASS	ON	
	LOUDNESS	OFF	
	INPUT SEL	TUNER	
	INPUT LEVEL	0	
TUNER	BAND	FM	
	LAST freq.	LOWEST FREQ.	
	LAST Preset Channel	- -	
	AUTO/MONO	AUTO	
	Preset Channel	TEST FREQ.	
CLOCK TIMER	CLOCK	AM 12:00	E,T type 24H
	PROG ON (TIME)	AM 12:00	E,T type 24H
	PROG OFF (TIME)	AM 12:00	E,T type 24H
	SOURCE	TUNER	
	Preset Channel	1	
	EXE MODE	OFF	
	OTT MODE	OFF	AM 7:00
	ASP	OFF	
	SLEEP	OFF	
	DIRECTION	FORWARD	
DECK	RVS MODE	REVERSE	
	TAPE EQ	OFF	
	OPERATION MODE	STOP	
	PLAY MODE	TRACK	
CD	REPEAT	OFF	
	RANDOM	OFF	
	OPERATION MODE	STOP	
	PLAY MODE	TRACK	NONE
MD	REPEAT	OFF	NONE
	RANDOM	OFF	NONE
	OPERATION MODE	STOP	NONE
	PLAY MODE	TRACK	NONE

1-4 Mechanism Initialization

1-4-1 CD Mechanism

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

1-4-2 DECK mechanism

- When the initial condition becomes NG for the third time, decide the error.
- The error condition is displayed as "X" on the display.

1-4-3 MD mechanism

- If a mechanism error occurs, "M" is indicated on the display.
- MD disc is ejected from MD mechanism.

1-4-4 If mechanisms (CD/DECK/MD) error occur, the display is indicated as follows.

C] M] X] S] ERR]

1-4-5 TAPE door switch diagnosis

- If switches (open/close) error occur, "S" is indicated on the display.

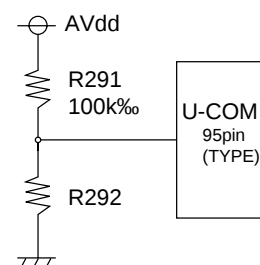
2. Destination List of Tuner

Set	Type	BAND	Receiving Frequency Range	Channel Space	IF	RF
J	J	FM	76.0MHz~90.0MHz	100kHz	-10.7MHz	25kHz
		AM	531kHz~1629kHz	9kHz	+450KHz	9kHz
K,P	K1	FM	87.5MHz~108.0MHz	100kHz	+10.7MHz	25kHz
		AM	530kHz~1700kHz	10kHz	+450kHz	10kHz
M,Y	K2	FM	87.5MHz~108.0MHz	100kHz	+10.7MHz	25kHz
		AM	530kHz~1610kHz	10kHz	+450kHz	10kHz
	E1	FM	87.5MHz~108.0MHz	50kHz	+10.7MHz	25kHz
		AM	531kHz~1602kHz	9kHz	+450kHz	9kHz
X	E1	FM	87.5MHz~108.0MHz	50kHz	+10.7MHz	25kHz
		AM	531kHz~1602kHz	9kHz	+450kHz	9kHz
E,T	E1	FM	87.5MHz~108.0MHz	50kHz	+10.7MHz	25kHz
		AM	531kHz~1602kHz	9kHz	+450kHz	9kHz

2-1 Discrimination Port for Destination

TYPE	R292 [Ω]	VOLTAGE [V]
J	910k	4.505
K	220k	3.438
M1	100k	2.500
X	47k	1.600
E,T	12k	0.536

AVdd = 5.0 [v]



3. Test Mode

3-1 Setting of the Test Mode

AUX MODE	AUX Key+AC-ON
TUNER MODE	TUNER (BAND) Key+AC-ON
TAPE MODE	TAPE PLAY Key+AC-ON
CD MODE	CD PLAY Key+AC-ON
MD UNIT MODE	MD PLAY key + AC ON (MD version only)
MD MECHA. MODE	MD REC key +AC-ON
SUB CLOCK OSC DIAGNOSIS	TAPE REC 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.

CIRCUIT DESCRIPTION

3-2 Cancel of the test mode

By turning the power off, the system is initialized and the test mode is canceled.

3-3 Contents of the Test Mode

3-3-1 Tuner Test mode

KEY	DISPLAY	OPERATION
STOP	Normal indication	P --→ P10 → P20 → P30 → P40 →
MENU	Normal indication	AUTO • STEREO ↑ MANUAL • MONO ↓
MD REC TAPE REC	Normal indication	TUNING DOWN TUNING UP
SKIP DOWN SKIP UP	Normal indication	P. ch DOWN P. ch UP

3-3-2 Aux Test Mode

KEY	DISPLAY	OPERATION
SET/demo	Tone] MAX]]] Tone] MAX]]] Tone] CENTER	CENTER → MAX → MIN →
SKIP UP	Normal indication	EX. BASS ON→LOUDNESS ON→SOUND MODE OFF

3-3-3 Deck Test Mode

KEY	DISPLAY	OPERATION
TAPE REC	Normal display	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.

3-3-4 CD Test Mode

- The CD tray is opened automatically when the test mode is entered.

KEY	DISPLAY	OPERATION
CD-PLAY/PAUSE	05 * * : * * (* * : * *)	Tracking-servo on.
(Change the mode 05 and 03 alternately by the stop key.)	03 --:--	Tracking-servo off.
CD STOP	01 --:--	STOP
(Cyclically changed in the stop mode only.)	07 * * / * * 08 * * / * * 09 * * / * * 10 * * / * *	Adjustment value/mean value TB value FB value TG value FG value FE value RF value TE value VC value
MENU	HI-SPEED NOR-SPEED	CD double speed operation CD normal speed operation
SKIP UP	Ex.01~02	CD track no. up.
TAPE REC		CD FF search. The pickup travels outward in the stop mode.
SKIP DOWN	Ex.02~01	CD track no. down.
MD REC		CD FB search. The pickup travels inward in the stop mode.

4. MD Test Mode

4-1 MD Unit Mode

Key	Display	Description
STOP	001—:—	Stop the MD operation.
SKIP UP	EX : 01-02	MD's track up operation.
SKIP DOWN	EX : 02-01	MD's track down operation.
SET/demo	ALL ERASE	Stop the MD operation. Start operation of all erase if disc is recordable.

CIRCUIT DESCRIPTION

4-2 MD SECTION

1. Preparation for Adjustment

You have to carry out the following test mode items if replace MD mechanism, pickup, head and pc board.

1-1 Procedure

1. Short-circuit #4(vss) and #7(wp) of IC1402(EEPROM).
2. Set the unit to test mode and carry out the every adjustment in test mode.
3. Stop the test mode by pressing the STOP key for 3 secs
4. Remove the short circuit of IC1402. Carry out reset start.

Repair(replace)	Temperature Standard Set	EEPROM set value check	Auto pre adj	Auto adj	Auto Fab adj	*EEPROM data write	** Operation check	
	TEMP	EEPROM_SET	AUTO_YOBI	AUTO_ADJ	AUTO_FAB	CANCEL TEST MODE	TEST-PLAY	TEST-REC
pickup	-	1	2	3	4	5	6	7
recording head	-	-	-	-	-	-	-	1
mechanism	-	1	2	3	4	5	6	7
pcb parts	1	2	3	4	5	6	7	8
MD microprocessor	-	1	-	-	-	2	3	4
MD LSI	-	-	1	2	3	4	5	6
RF IC	1	2	3	4	5	6	7	8
EEPROM	1	2	3	4	5	6	7	8

note: figures order of steps. - = no need.

* Result of EEPROM

- OK_EEPROM Write the data of setting values and AUTO-pre adjustment perfectly.
- WR_EEPROM Write the data of setting values perfectly however not write AUTO pre-adjustment.
Carry out AUTO-pre adjustment and write data to EEPROM.
- NG_EEPROM Not write the data of setting values.
Check the connection of MD microprocessor and EEPROM.

** Carry out the TEST-PLAY , TEST-REC and C1 error in test mode after AUTO_ADJ and AUTO_FAB.

1-2 Test disc

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

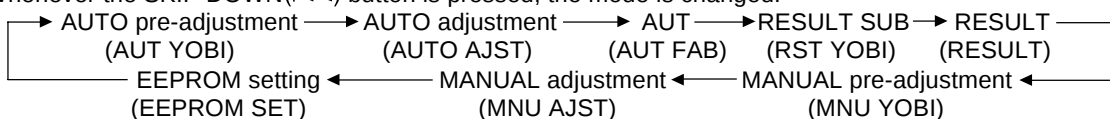
2. Test Mode

1. Holding down the MD rec button and turn the power on. (State ①)
2. To enter the test mode stop state(State ②), press the STOP button.
3. Load the playback disc 1(high reflection disc) or recording disc 2(low reflection disc).

- ① MD TEST
↓ (Press STOP key)
- ② tsm ○○○○e○○ ---- TEST MODE STOP STATE ○○represents version of MD microcomputer
↓ (MD DISC LOAD IN)
- ③ LOADING
↓
- ④ AUT YOBI (When the STOP button is pressed in the ④ state, the indication ② state is restored.
To restore ④ state again, press the SKIP DOWN key once.

Entering the specific mode

Whenever the SKIP DOWN(◀◀) button is pressed, the mode is changed.



CIRCUIT DESCRIPTION

• Canceling the test mode

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

• Test Mode

1. AUTO pre-adjustment mode	- Automatic pre-adjustment is performed. (After adjustment the grating adjustment mode is set.) - The adjustment value is output with the aid of system controller interface.
2. AUTO adjustment mode	- Automatic adjustment is performed. - The adjustment value is output with the aid of system controller interface. - Continuous playback is performed. (Error rate indication, jump test)
3. AUTO FOCUS BIAS adjustment	Focus bias adjustment is performed automatically.
4. RESULT sub-mode	- The measurement value, set value and calculated value are indicated. - The set value is changed manually (in servo OFF state).
5. RESULT mode (final adjustment)	- The set value (after calculation) is indicated. - The set value is changed manually (in servo OFF state).
6. MANUAL pre-adjustment mode	- RF side manual adjustment is performed. - Focus and tracking signal ATT manual adjustment is performed. - Focus and tracking signal offset setting is performed.
7. MANUAL adjustment mode	Focus and tracking signal ATT manual adjustment is performed.
8. EEPROM setting mode	EEPROM setting
9. TEST-PLAY mode	- Continuous playback from the specified address is performed. - C1 error rate measurement.
10. TEST-REC mode	- Continuous recording from the specified address is performed. - Change of record laser output (servo gain is also changed according to laser output)
11. EJECT mode	TEMP setting (of EEPROM setting)

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

Step No.	Setting Method	Remarks	Display
Step 1	Test mode STOP state		[t s m○○○○○ e ○○]
Step 2	Press once the SKIP DOWN(⏮) button.	AUTO pre-adjustment menu	[_ AUT_YOBI _ _]
Step 3	Press once the MD PLAY button.	The slide moves to the innermost periphery, and automatic pre-adjustment is started. During automatic adjustment *** changes as follows. HAo→RFg→SAG→SBg→PTG→PCH→GTG→GCH→RCG→SEG→RFG→SAG→HAO→HEO→TCO→LAO	[*** : _ _ _ _ _]
	End of adjustment	If adjustment is OK, Step 4. If adjustment is NG, Step 5.	
Step 4	Grating adjustment, adjustment value output Press once the MD STOP button.	STEP 2	[_ COMPLETE _]
Step 5	Adjustment value output Press once the MD STOP button.	STEP 2 AUTO pre-adjustment menu	[AUT YOBI]

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

2. AUTO adjustment mode

Step No.	Setting Method	Remarks	Display
Step 1	Test mode STOP state		[t s m○○○○○ e ○○]
Step 2	Press the SKIP DOWN(⏮) button two times.	AUTO adjustment menu	[AUTO_AJST _]
Step 3	Press once the MD PLAY button.	The slide moves to the innermost periphery, and automatic adjustment is started. - In case of high reflection disc *** changes as follows. PEG→HAG - In case of low reflection disc *** changes as follows. PEG→LAG→GCG→GEG→LAG	[*** : _ _ _ _ _]
	End of adjustment	If adjustment is OK, Step 4. If adjustment is NG, Step 7.	[COMPLETE]
Step 4	Adjustment value output Press the MD PLAY button. Press the MD STOP button.	STEP 5 STEP 2	
Step 5	Continuous playback (groove section)		[a□□□□c○○○○]
Step 6	Press the MD STOP button.	STEP 2 AUTO adjustment menu	
Step 7	Adjustment value output Press the MD STOP button.	STEP 2 AUTO adjustment menu	[Can't _ ADJ.]

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

CIRCUIT DESCRIPTION

3. AUTO FAB adjusting mode

Step No.	Setting Method	Remarks	Display
Step 1	Test mode STOP state		[tsm○○○○e○○]
Step 2	Press the SKIP DOWN(◀◀) button three times	AUTO FAB adjustment menu	[_AUT_FAB_]
Step 3	Press the MD PLAY button 1 time	End of automatic adj. → step 4 High reflection disc → step 5	[FAB□□_△△△△]
Step 4	Press the MD STOP button	AUTO FAB adjustment menu, step 2	[●●_△△△△○○]
Step 5		Message output for 1 sec. → AUTO FAB. Adjustment menu(high reflection disc)	「PB_DISC__」

- ○○○○: measurement value □□: FAB value in measurement, △△△△ C1 error value in measurement, ●●: FAB value
- If the STOP button is pressed twice while the AUTO FAB adjustment is displayed, the state is change to the TEST mode STOP state.

4. RESULT sub-mode

Step No.	Setting Method	Remarks	Display
Step 1	Test mode STOP state		[t s m○○○○ e ○○]
Step 2	Press the SKIP DOWN(◀◀) button 4 times.	RESULT sub-menu	[_ R S T _ Y O B I _]
Step 3	Press once the MD PLAY button.	Indication of measurement value	[R F G : _ _ _ _ ●]
Step 4	Press once the SKIP DOWN(◀◀) button.	Indication of measurement value	[R C G : _ _ _ _ ●]
Step 5	Press once the SKIP DOWN(◀◀) button.	Indication of measurement value	[P T G : _ _ _ _ ●]
Step 6	Press once the SKIP DOWN(◀◀) button.	Indication of measurement value	[G T G : _ _ _ _ ●]
Step 7	Press once the SKIP DOWN(◀◀) button.	Indication of measurement value	[P C H : _ _ _ _ ●●]
Step 8	Press once the SKIP DOWN(◀◀) button.	Indication of measurement value	[G C H : _ _ _ _ ●●]
Step 9	Press once the SKIP DOWN(◀◀) button.	Indication of measurement value	[S A G : _ _ _ _ ●●●]
Step 10	Press once the SKIP DOWN(◀◀) button.	Indication of measurement value	[S B G : _ _ _ _ ●●●]
Step 11	Press once the SKIP DOWN(◀◀) button.	Indication of measurement value	[S E G : _ _ _ _ ●●●]
Step 12	Press once the SKIP DOWN(◀◀) button.	Indication of measurement value	[S F G : _ _ _ _ ●●●]
Step 13	Press once the SKIP DOWN(◀◀) button.	Indication of measurement value	[H A O : ○○○ _ _]
Step 14	Press once the SKIP DOWN(◀◀) button.	Indication of measurement value	[H B O : ○○○ _ _]
Step 15	Press once the SKIP DOWN(◀◀) button.	Indication of measurement value	[H E O : ○○○ _ _]
Step 16	Press once the SKIP DOWN(◀◀) button.	Indication of measurement value	[H F O : ○○○ _ _]
Step 17	Press once the SKIP DOWN(◀◀) button.	Indication of measurement value	[L A O : ○○○ _ _]
Step 18	Press once the SKIP DOWN(◀◀) button.	Indication of measurement value	[L B O : ○○○ _ _]
Step 19	Press once the SKIP DOWN(◀◀) button.	Indication of measurement value	[L E O : ○○○ _ _]
Step 20	Press once the SKIP DOWN(◀◀) button.	Indication of measurement value	[L F O : ○○○ _ _]
Step 21	Press once the SKIP DOWN(◀◀) button.	Indication of measurement value	[T C O : _ ○○ _ _]
Step 22	Press once the SKIP DOWN(◀◀) button.	Indication of adjustment error sequence No.	[Y O B : _ □□ _ _]
Step 23	Press once the SKIP DOWN(◀◀) button.	Indication of adjustment status	[D I F : _ □□ _ _]
Step 24	Press once the SKIP DOWN(◀◀) button.	Indication of pre-adjustment not completed (00)/completed (4B)	[A D J : _ □□ _ _]
Step 25	Press once the MD STOP button.	RESULT sub-menu state	[_ R S T _ Y O B I _]

- ○○ : Measurement value, ●● : Adjustment value, □□ : Other various informations
- When the (▶▶)button in remote controller is pressed while the setting is displayed, the setting increases, and a new setting is stored in RAM.
- When the (◀◀)button in remote controller is pressed while the setting is displayed, the setting increases, and a new setting is stored in RAM.
- When the (▶▶) or (◀◀)button in remote controller is pressed continuously, steps is change by 100ms period.

CIRCUIT DESCRIPTION

Step No.	Setting Method	Remarks	Display
Step 1	Test mode STOP state		[t s m ○ ○ ○ ○ e ○ ○]
Step 2	Press the SKIP DOWN(◀◀) button 5 times.	RESULT menu	[_ R S T U L T _ _ _]
Step 3	Press once the MD PLAY button.	Indication of set value	[H A G : _ _ _ ●●●]
Step 4	Press once the SKIP DOWN(◀◀) button.	Indication of set value	[H B G : _ _ _ ●●●]
Step 5	Press once the SKIP DOWN(◀◀) button.	Indication of set value	[L A G : _ _ _ ●●●]
Step 6	Press once the SKIP DOWN(◀◀) button.	Indication of set value	[L B G : _ _ _ ●●●]
Step 7	Press once the SKIP DOWN(◀◀) button.	Indication of set value	[P E G : _ _ _ ●●●]
Step 8	Press once the SKIP DOWN(◀◀) button.	Indication of set value	[P F G : _ _ _ ●●●]
Step 9	Press once the SKIP DOWN(◀◀) button.	Indication of set value	[G E G : _ _ _ ●●●]
Step 10	Press once the SKIP DOWN(◀◀) button.	Indication of set value	[G F G : _ _ _ ●●●]
Step 11	Press once the SKIP DOWN(◀◀) button.	Indication of set value	[G C G : _ _ _ ●●]
Step 12	Press once the MD STOP button.	RESULT menu state	[_ R E S U L T _ _ _]

- : Measurement value
- When the (▶▶)button in remote controller is pressed while the setting is displayed, the setting increases, and a new setting is stored in RAM.
- When the (◀◀)button in remote controller is pressed while the setting is displayed, the setting decreases, and a new setting is stored in RAM.
- When the (▶▶) or (◀◀)button in remote controller is pressed continuously, steps is change by 100ms period.

6. MANUAL auxiliary adjustment mode (only low reflection disc)

Step No.	Setting Method	Remarks	Display
Step 1	Test mode STOP state		[t s m ○ ○ ○ ○ e ○ ○]
Step 2	Press the SKIP DOWN(◀◀) button 6 times.	MANUAL auxiliary adjustment mode	[_ M N U _ Y O B I _]
Step 3	Press once the MD PLAY button.	Initial setting → Temperature measuring mode	[T M P : _ △△ _ _]
Step 4	Press once the SKIP DOWN(◀◀) button.	Offset "0" setting → A signal offset tentative measurement	[H A o : △△△ _ _]
Step 5	Press once the SKIP DOWN(◀◀) button.	B signal offset tentative measurement	[H B o : △△△ _ _]
Step 6	Press once the SKIP DOWN(◀◀) button.	E signal offset tentative measurement	[H E o : △△△ _ _]
Step 7	Press once the SKIP DOWN(◀◀) button.	F signal offset tentative measurement	[H F o : △△△ _ _]
Step 8	Press once the SKIP DOWN(◀◀) button.	Offset tentative measurement → Laser ON	[L O N : _ _ _ _ _]
Step 9	Press once the SKIP DOWN(◀◀) button.	Innermost periphery move → RF side FG rough adjustment	[R F g : △△△ _ _ ●]
Step 10	Press once the SKIP DOWN(◀◀) button.	Focus ATT (A signal) tentative setting	[S A g : △△△○○○]
Step 11	Press once the SKIP DOWN(◀◀) button.	Focus ATT (B signal) tentative setting	[S B g : △△△○○○]
Step 12	Press once the SKIP DOWN(◀◀) button.	RF side pit section TG adjustment	[P T G : △△△ _ _ ●]
Step 13	Press once the SKIP DOWN(◀◀) button.	Pit section COUT level setting	[P C H : △△△ _ ○○]
Step 14	Press once the SKIP DOWN(◀◀) button.	Outer periphery move → RF side groove TG adjustment	[G T G : △△△ _ _ ●]
Step 15	Press once the SKIP DOWN(◀◀) button.	Groove section COUT level setting	[G C H : △△△ _ ○○]
Step 16	Press once the SKIP DOWN(◀◀) button.	RF side TCRS adjustment	[R C G : △△△ _ _ ●]
Step 17	Press once the SKIP DOWN(◀◀) button.	Tracking ATT (E signal) setting	[S E G : △△△○○○]
Step 18	Press once the SKIP DOWN(◀◀) button.	Tracking ATT (F signal) setting	[S F G : △△△○○○]
Step 19	Press once the SKIP DOWN(◀◀) button.	Indication of tracking EFMIO measurement	[g M I : △△△ _ _ _]
Step 20	Press once the SKIP DOWN(◀◀) button.	RF side pit section FG adjustment	[R F G : △△△ _ _ ●]
Step 21	Press once the SKIP DOWN(◀◀) button.	Focus ATT (A signal) setting	[S A G : △△△○○○]
Step 22	Press once the SKIP DOWN(◀◀) button.	Focus ATT (B signal) setting	[S B G : △△△○○○]
Step 23	Press once the SKIP DOWN(◀◀) button.	Offset "0" setting → A signal offset measurement	[H A O : △△△ _ _ _]
Step 24	Press once the SKIP DOWN(◀◀) button.	B signal offset measurement	[H B O : △△△ _ _ _]
Step 25	Press once the SKIP DOWN(◀◀) button.	E signal offset measurement	[H E O : △△△ _ _ _]
Step 26	Press once the SKIP DOWN(◀◀) button.	F signal offset measurement	[H F O : △△△ _ _ _]
Step 27	Press once the SKIP DOWN(◀◀) button.	TCRS signal offset measurement	[T C O : △△△ _ _ _]
Step 28	Press once the SKIP DOWN(◀◀) button.	A signal offset measurement	[L A O : △△△ _ _ _]
Step 29	Press once the SKIP DOWN(◀◀) button.	B signal offset measurement	[L B O : △△△ _ _ _]
Step 30	Press once the SKIP DOWN(◀◀) button.	E signal offset measurement	[L E O : △△△ _ _ _]
Step 31	Press once the SKIP DOWN(◀◀) button.	F signal offset measurement	[L F O : △△△ _ _ _]
Step 32	Press once the MD STOP button.	MNU YOBI state	[_ M N U _ Y O B I _]

- △△△ : Measurement value, ● : Set value, ○○○ : Account value

CIRCUIT DESCRIPTION

- When the (▶▶) button in remote controller is pressed while the setting is displayed, the setting increases, and a new setting is stored in RAM.
- When the (◀◀) button in remote controller is pressed while the setting is displayed, the setting decreases, and a new setting is stored in RAM.
- When the (▶▶) or (◀◀) button in remote controller is pressed continuously, steps are changed by 100ms period. If the measurement value is within the OK range, "※" appears on the 8th character.

7. MANUAL adjustment mode

High reflection disc

Step No.	Setting Method	Remarks	Display
Step 1	Test mode STOP state		[t s m 0 0 0 0 e 0 0]
Step 2	Press the SKIP DOWN(◀◀) button 7 times.	MANUAL adjustment menu	[_ M N U _ A J S T _]
Step 3	Press once the MD PLAY button.	Initial setting → Temperature measuring mode	[T M P : _ Δ Δ _ _ _]
Step 4	Press once the SKIP DOWN(◀◀) button.	Laser ON	[L O N : _ _ _ _ _]
Step 5	Press once the SKIP DOWN(◀◀) button.	Innermost periphery move → Tracking ATT (E signal) setting	[P E G : Δ Δ Δ 0 0 0]
Step 6	Press once the SKIP DOWN(◀◀) button.	Tracking ATT (F signal) setting	[P F G : Δ Δ Δ 0 0 0]
Step 7	Press once the SKIP DOWN(◀◀) button.	Indication of tracking EFMIO measurement	[P M I : Δ Δ Δ _ _ _]
Step 8	Press once the SKIP DOWN(◀◀) button.	Focus ATT (A signal) setting	[H A G : Δ Δ Δ 0 0 0]
Step 9	Press once the SKIP DOWN(◀◀) button.	Focus ATT (B signal) setting	[H B G : Δ Δ Δ 0 0 0]

- If the MD STOP button is pressed twice while the MANUAL adjustment menu is displayed, the state is changed to the TEST mode STOP state.

Low reflection disc

Step No.	Setting Method	Remarks	Display
Step 1	Test mode STOP state		[t s m 0 0 0 0 e 0 0]
Step 2	Press the SKIP DOWN(◀◀) button 7 times.	MANUAL adjustment menu	[_ M N U _ A J S T _]
Step 3	Press once the MD PLAY button.	Initial setting → Temperature measuring mode	[T M P : _ Δ Δ _ _ _]
Step 4	Press once the SKIP DOWN(◀◀) button.	Laser ON	[L O N : _ _ _ _ _]
Step 5	Press once the SKIP DOWN(◀◀) button.	Innermost periphery move → Tracking ATT (E signal) setting	[P E G : Δ Δ Δ 0 0 0]
Step 6	Press once the SKIP DOWN(◀◀) button.	Tracking ATT (F signal) setting	[P F G : Δ Δ Δ 0 0 0]
Step 7	Press once the SKIP DOWN(◀◀) button.	Indication of tracking EFMIO measurement (pit section)	[P M I : Δ Δ Δ _ _ _]
Step 8	Press once the SKIP DOWN(◀◀) button.	Focus ATT (A signal) setting	[L A g : Δ Δ Δ 0 0 0]
Step 9	Press once the SKIP DOWN(◀◀) button.	Focus ATT (B signal) setting	[L B g : Δ Δ Δ 0 0 0]
Step 10	Press once the SKIP DOWN(◀◀) button.	Outside periphery move → Track cross setting	[G C G : Δ Δ Δ 0 0 0]
Step 11	Press once the SKIP DOWN(◀◀) button.	Tracking ATT (E signal) setting	[G E G : Δ Δ Δ 0 0 0]
Step 12	Press once the SKIP DOWN(◀◀) button.	Tracking ATT (F signal) setting	[G F G : Δ Δ Δ 0 0 0]
Step 13	Press once the SKIP DOWN(◀◀) button.	Indication of tracking EFMIO measurement (groove section)	[G M I : Δ Δ Δ _ _ _]
Step 14	Press once the SKIP DOWN(◀◀) button.	Focus ATT (A signal) setting	[L A G : Δ Δ Δ 0 0 0]
Step 15	Press once the SKIP DOWN(◀◀) button.	Focus ATT (B signal) setting	[L B G : Δ Δ Δ 0 0 0]

- If the MD STOP button is pressed twice while the MANUAL adjustment menu is displayed, the state is changed to the TEST mode STOP state.

8. TEST-PLAY mode

Step No.	Setting Method	Remarks	Display
Step 1	Test mode STOP state		[t s m 0 0 0 0 e 0 0]
Step 2	Press once the SOUND button.		[T E S T _ P L A Y _] ↓ [a □ □ □ □ c 0 0 0 0]
Step 3	Press the STOP button.		[T E S T _ P L A Y _]
Step 4	Press once the MD PLAY button.	During search the search output is set to "H", and it is returned to "L" when continuous playback is started.	
Step 5	Continuous playback (groove section)	(Address + C1 error indication)	
Step 6	Press once the MD STOP button.	TEST-PLAY menu	[T E S T _ P L A Y _]

- If the MD STOP button is pressed while the TEST-PLAY menu is displayed, TEST mode STOP state is set.
- If the MD PLAY button is pressed while the TEST-PLAY menu is displayed, continuous playback is started from the current pickup position.

CIRCUIT DESCRIPTION

9. TEST-REC mode

Step No.	Setting Method	Remarks	Display
Step 1	Test mode STOP state		[t s m ○ ○ ○ ○ e ○ ○]
Step 2	Press the SOUND button twice.		[T E S T _ R E C _ _] ↓ [a □ □ □ □ p w ▽ ▽]
Step 3	Press the STOP button.		[T E S T _ R E C _ _]
Step 4	Press once the MD PLAY button.	During search the search output is set to "H", and it is (returned on "L" when continuous playback is started.Address + C1 error indication) Continuous recording	[a □ □ □ □ p w ▽ ▽]
Step 5	Press once the MD STOP button.	TEST-REC menu	[T E S T _ R E C _ _]

- If the MD STOP button is pressed while the TEST-PLAY menu is displayed, TEST mode STOP state is set.
- If the MD PLAY button is pressed while the TEST-REC menu is displayed, continuous record is started from the current pickup position.
- If the (▶▶) or (◀◀) button in remote controller is pressed in TEST-REC mode and continuous record mode, the laser record power changes.
(Servo gain changes also according to the record power.)
- □ □ □ □ : Address, ▽ ▽ : Laser power cord

10. EJECT mode

Step No.	Setting Method	Remarks	Display
Step 1	Test mode STOP state		
Step 2	Test mode EJECT state	Eject of MD disc	[_ _ E J E C T _ _]
Step 3	Press SOUND button.	Temperature standard value setting.	[T E M P ○ ○ ● ●]
Step 4	Press STOP button.		[_ _ E J E C T _ _]

- ○ ○ : Measurement value, ● ● : Setting value.

• POWER

Display	TOC recording power	Actual power output	
		Value	Voltage
00H	2.50 mW	6E H	1.354 V
01H	2.60 mW	74 H	1.427 V
02H	2.70 mW	7B H	1.513 V
03H	2.85 mW	83 H	1.612 V
04H	3.00 mW	8A H	1.698 V
05H	3.15 mW	93 H	1.809 V
06H	3.30 mW	93 H	1.809 V
07H	3.45 mW	9C H	1.920 V
08H	3.60 mW	A6 H	2.043 V
09H	3.75 mW	AE H	2.141 V
0AH	3.95 mW	B9 H	2.289 V
0BH	4.15 mW	B9 H	2.289 V
0CH	4.35 mW	C4 H	2.412 V
0DH	4.55 mW	CF H	2.547 V
0EH	4.75 mW	DB H	2.695 V
0FH	5.00 mW	DB H	2.695 V

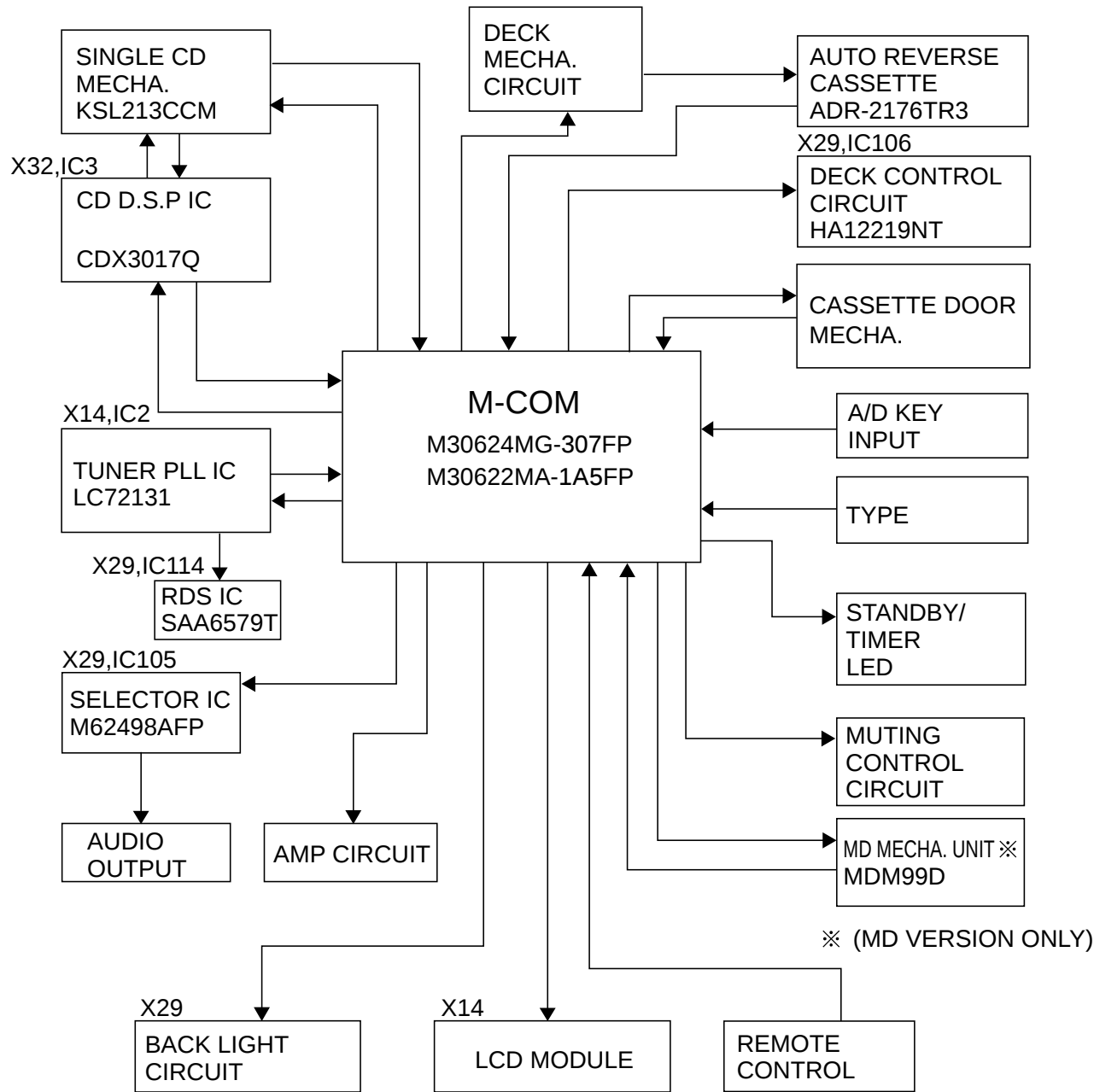
8. MD mechanism error message

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

CIRCUIT DESCRIPTION

5. Main Microprocessor : X29(IC104) M30622MA-1A5FP (DECK VERSION)
M30624MG-307FP (MD VERSION)

5-1 Main Microprocessor Periphery Block Diagram



5-2. Key Matrix

INPUT VOLTAGE(V)	KEY1 Pin90	KEY2 Pin91
0.00~0.23	TUNER/BAND	SET/ DEMO
0.24~0.67	STOP	MENU
0.68~1.12	TAPE REC	SKIP UP
1.13~1.60	TAPE PLAY (F PLAY)	SKIP DOWN
1.61~2.02	MD REC (TAPE O.T.E.)	SOUND
2.03~2.74	MD PLAY (R PLAY)	AUX
2.75~2.47	MD EJECT (TAPE EQ)	-
2.48~3.37	CD PLAY	-
3.38~3.82	CD OPEN/CLOSE	-
3.83~4.27	POWER	-
4.28~4.74	TAPE OPEN/CLOSE	-
4.75~5.00	KEY OFF	KEY OFF

※ Vref=5V
() Deck Version

CIRCUIT DESCRIPTION

5-3 Pin Description of Main Microprocessor

Pin No.	Pin Name	I/O	Description		
1	CD_PROTECTION	I	Detection port for CD protection.	H = NORMAL	L = PROTECTION ON
2	CD_OPEN_SW	I	CD open detection switch input.	H = OFF	L = ON
3	CD_OPEN_M	O	CD tray motor control output (open).	H = OFF	L = ON
4	CD_CLOSE_M	O	CD tray motor control output (close).	H = OFF	L = ON
5	CD_CLOSE_SW	I	CD close detection switch input.	H = ON	L = OFF
6	RDS_DATA	I	RDS data input.		
7	CE	I	Power failure input port.	H = AC ON	L = AC OFF
8	BYTE	I	GND.		
9	CNVSS	I	GND.		
10	XCIN	I	Timer clock input (32.768kHz).		
11	XCOUT	O	Timer clock output (32.768kHz).		
12	RESET	I	Reset signal input for microprocessor.	H = NORMAL	L = RESET
13	XOUT	O	Main clock oscillator(10MHz).		
14	VSS	I	GND.		
15	XIN	I	Main clock oscillator(10MHz).		
16	VCC(B.U)	I	Power supply(+5.0v).		
17	NMI	I	Connected to VCC.		
18	REMOCON	I	Remote control signal input.		
19	RDS_CLK	I	RDS clock input.		
20	SCOR	I	Sub code synchronized signal input.		
21	SCLK	O	CD sense data read out clock.		
22	SENSE	I	CD sense input.		
23	CD_CLK	O	CD DSP clock output.		
24	XLAT	O	CD DSP latch output.		L = LATCH
25	CD_DATA	O	CD DSP data output.		
26	SYSM	O	CD DSP system mute output.		
27	CDRST	O	CD DSP reset signal output.		
28	SQCK	O	CD sub code clock output.		
29	SUBQ	I	CD sub code input.		
30	NC	O	Unused.		
31	K_DATA	O	MD data output (MD version only).		
32	MD_DATA	I	MD data input (MD version only).		
33	MD_SCK	O	MD clock output (MD version only).		
34	LED2	O	Control port of standby/timer LED(red).	L = ON	
35	LCD_DATA	O	Data output to LCD driver IC.		
36	NC	O	Unused.		
37	LCD_CLK	O	Clock output to LCD driver IC.		
38	LED1	O	Control port of standby/timer LED (green).	L = ON	
39	ENC1	I	Rotary encoder input (up).		
40	ENC2	I	Rotary encoder input (down).		
41	DECK_CMP	O	Deck capstan motor control.		
42	DECK_SOL	O	Deck solenoid control.		
43	PLAY_SW	I	Deck play switch input.		
44	CrO2_SW	I	Deck CrO2 detection switch input.	H = CrO2	L = Normal
45	PACK_SW	I	Deck pack switch input.	H = OFF	L = ON
46	REC_F_SW	I	Deck forward rec switch input.	H = OFF	L = ON
47,48	NC	-	Unused.		
49	REC_R_SW	I	Deck reverse rec switch input.	H = OFF	L = ON
50	NORMAL_BIAS	O	Deck bias (Normal/CrO2) change-over.		

CIRCUIT DESCRIPTION

Pin No.	Pin Name	I/O	Description
51	REC/PLAY	O	Deck rec/play control.
52	BIAS	O	Deck bias control.
53	120/70	O	Deck EQ. control.
54	A/B-1	O	Mode selection for deck.
55	A/B-2	O	Mode selection for deck.
56	B-1/2	O	Mode selection for deck.
57	SD	I	SD detector input. H = NO TUNED L = TUNED
58	STEREO	I	Stereo detector input. H = MONO L = STEREO
59	PLL_DATA	O	PLL IC data output.
60	PLL_DO	I	PLL IC data input.
61	PLL_CE	O	PLL IC chip enable.
62	VCC(B.U)	I	Power supply(+5.0v).
63	PLL_CLK	O	PLL IC clock output.
64	VSS	I	GND.
65	VOL_CLK	O	Clock output to selector IC.
66	VOL_DATA	O	Data output to selector IC.
67	CLOSE_SW	I	Close detection switch input for CD door. H = OF F L = ON
68	OPEN_SW	I	Open detection switch input for CD door. H = OF F L = ON
69	DOOR F	O	CD door (open) control output. H = ON L = OFF
70	DOOR R	O	CD door (close) control output. H = ON L = OFF
71	LCD_RST	O	Reset signal output to LCD driver IC. H = NORMAL L = RESET
72	LCD_CS	O	CS signal output to LCD driver IC.
73	BACK_LIGHT	O	Back light control output.
74	SP_RERAY	O	Speaker relay control output. H = ON L = OFF
75	PROTECTION	O	Detection input port for protection circuit H = PROTECTION ON
76	H.P SW	I	Headphones detection input. H = OFF L = ON
77	A_MUTE	O	Audio muting control output. H = OFF L = ON
78	B.U SW	O	Unused.
79	DSTB	I	MD STB input port.
80	SEARCH	O	MD search output.
81	MD_ST	O	MD ON/CD sync. output.
82	MD_RST	O	Reset signal output to MD.
83	LOAD SW	I	Loading switch input from MD.
84	PDOWN	O	MD power supply. H = ON L = OFF
85	P.RELAY	O	Power relay control output. H = ON L = OFF
86	CD_POWER	O	CD power ON/OFF control. H = NORMAL L = AC OFF
87	CD_MON	O	CD monitor output. H = ON L = OFF
88	CD_SPEED	O	Speed control port for CD. H = ON L = OFF
89	M TYPE CE	O	Unused.
90	KEY1	I	A/D key (key1) input port.
91	KEY2	I	A/D key (key2) input port.
92	RDS_SLEVEL	I	RDS Slevel input.
93	MD_BUP(NC)	I	Detection port for MD back up.
94	PHOTO	I	Detection port for deck reel pulse.
95	TYPE	I	Discrimination port for destination.
96	AVSS	I	GND.
97	CD DIFFECT	I	Unused.
98	VREF	I	A/D reference voltage(+5V). (No backed up 5V)
99	AVCC	I	A/D reference voltage(+5V). (backed up 5V)
100	NC	O	Unused.

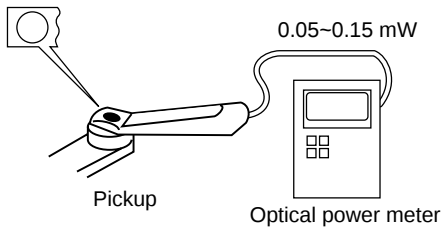
ADJUSTMENT

CD player adjustment

No.	ITEM	INPUT SETTING	OUTPUT SETTING	PLAYER SETTING	ALIGNMENT POINT	ALIGN FOR	FIG.
TEST MODE: While pressing the CD PLAY key, turn the power on.							
1	* LASER POWER	—	Set the sensor section of the optical power meter on the pickup lens.	Press the "PLAY" key to check that the display is "03".	—	On the power from 0.05 to 0.15mW. when the diffraction grating is correctly aligned with the RF level of 0.8Vp-p or more	(a)
2	LASER CURRENT	Test disc Type 4	Connect the DC voltmeter to CN3 (③, ④) on X32.	Press the "PLAY" key to check that the display is "03" or "05"	—	220mV to 550mV	
3	FOCUS ERROR BIAS	Test disc Type 4	Connect an oscilloscope as follows. CH1: RF(CN3, ①) GND : VC(CN3, ②) * X32	Press the "PLAY" key. Confirm that the display is "05".	VR 1	Optimum eye pattern	(d)

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

(a) Laser Power

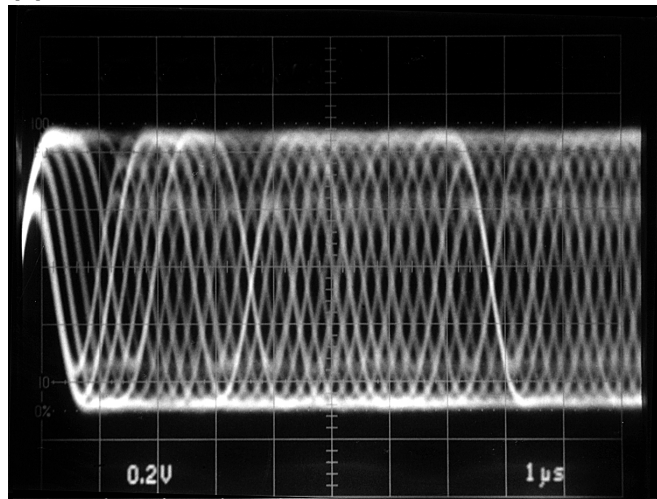


* How To Check the Laser Power

1. Set the test mode.
(The CD tray is opened automatically.)
2. To close the CD tray, press the OPEN/CLOSE key.
3. Move the pickup to outward by pressing the TAPE REC key.

(d)

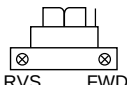
RF signal: AC coupled

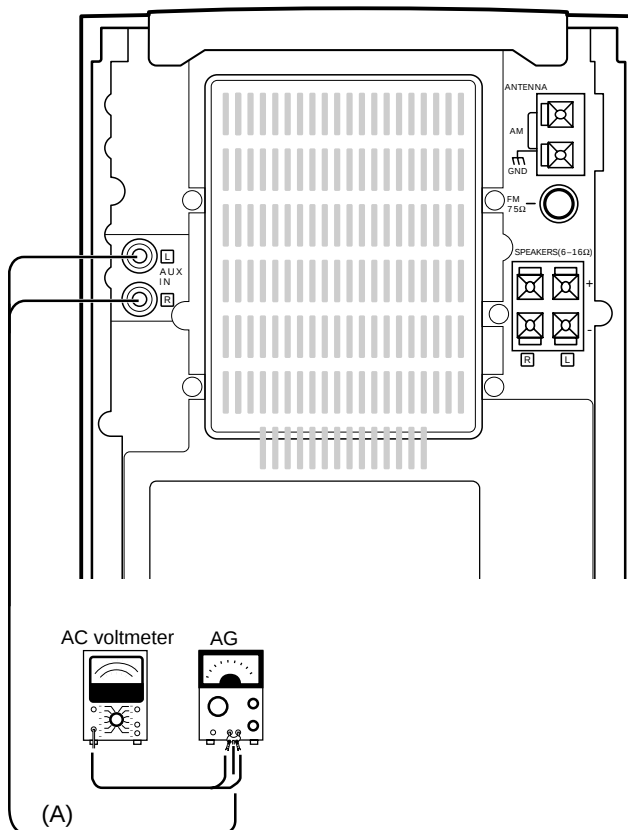
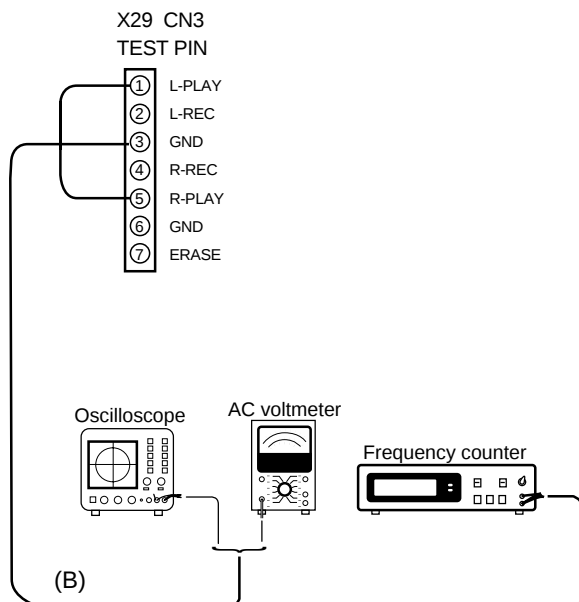


- RF signal in test mode (PLAY).
- Perform the tangential and focusing offset are focused into one point on the display. The crossing points above and below the center shall also be looked clearly.

ADJUSTMENT

Cassette deck adjustment

NO.	ITEM	INPUT SETTING	OUTPUT SETTING	CASSETTE TAPE DECK SETTING	ALIGNMENT POINTS	ALIGN FOR	FIG.
Unless otherwise specified, set the respective switches as follows: TAPE : NORMAL I Cassette mechanism unit (Adjustment of the REC / PLAY head)							0dBs = 0.775V
(1)	Demagnetization and cleaning			Power : OFF Demagnetization, cleaning, PLAY	Recording head, erase head, capstan pinch roller	Demagnetize the REC / PLAY head with the head eraser. Clean the REC/PLAY head, erase head, capstan and pinch roller using a cotton swab slightly damped with alcohol.	
(2)	Azimuth of the REC / PLAY head	SCC-1727 TCC-153 MTT-114 10kHz, -10dB	(B)	PLAY		Adjust the output to maximum and adjust the azimuth adjustment screw for the Lissajours waveform pattern of the oscilloscope to become close to a 45° straight line.	
II PC board adjustment.							
(1)	BIAS CURRENT	(A) Adjust the AG for the output of the DECK to become -20dBs at 12.5kHz/400Hz. (AC-224)	(B)	REC PLAY	VR101(L) VR102(R)	Record 400Hz and 12.5kHz alternately, and adjust the bias current adjustment potentiometer for the playback levels to become the same.	

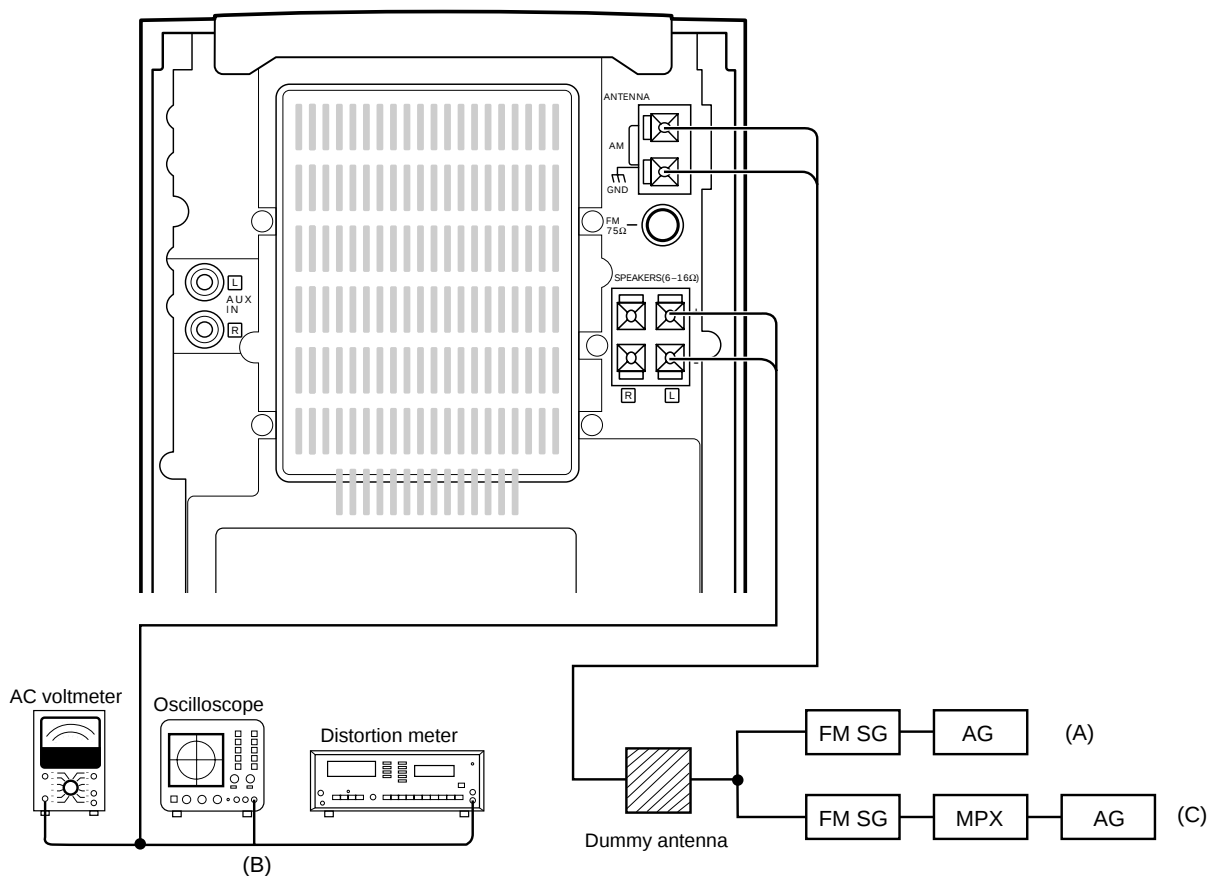


ADJUSTMENT

Tuner adjustment

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	RECEIVER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION :		SELECTOR : FM	*Adjust NO.1 and NO.2 repeat.				
1	DISCRIMINATOR	(A) 98.0MHz 1kHz, ±40kHz dev. 70dBf (ANT. input)	Connect a DC voltmeter between CN4 ① and CN4 ② (X14)	MONO 98.0MHz	L4 (X14-)	0V	
2	DISTORTION (MONO)	(A) 98.0MHz 1kHz, ±40kHz dev. MONO 70dBf (ANT. input)	(B)	MONO 98.0MHz	L5 (X14-)	Minimum distortion	
3	DISTORTION (STEREO)	(C) 98.0MHz 1kHz, ±40kHz dev. Selector : L or R Pilot : ±6kHz dev. 70dBf (ANT. input)	(B)	AUTO 98.0MHz	IFT(RF FRONTEND : A1) (X14-)	Minimum distortion (L or R)	
4	TUNING LEVEL	(A) 98.0MHz MONO 1kHz, ±40kHz dev. 30dBf (ANT. input)	—	MONO 98.0MHz	VR1 (X14-)	Adjust VR1 and stop at the point where ED1 (TUNED) goes on.	

SYSTEM CONNECTIONS



RXD-M32

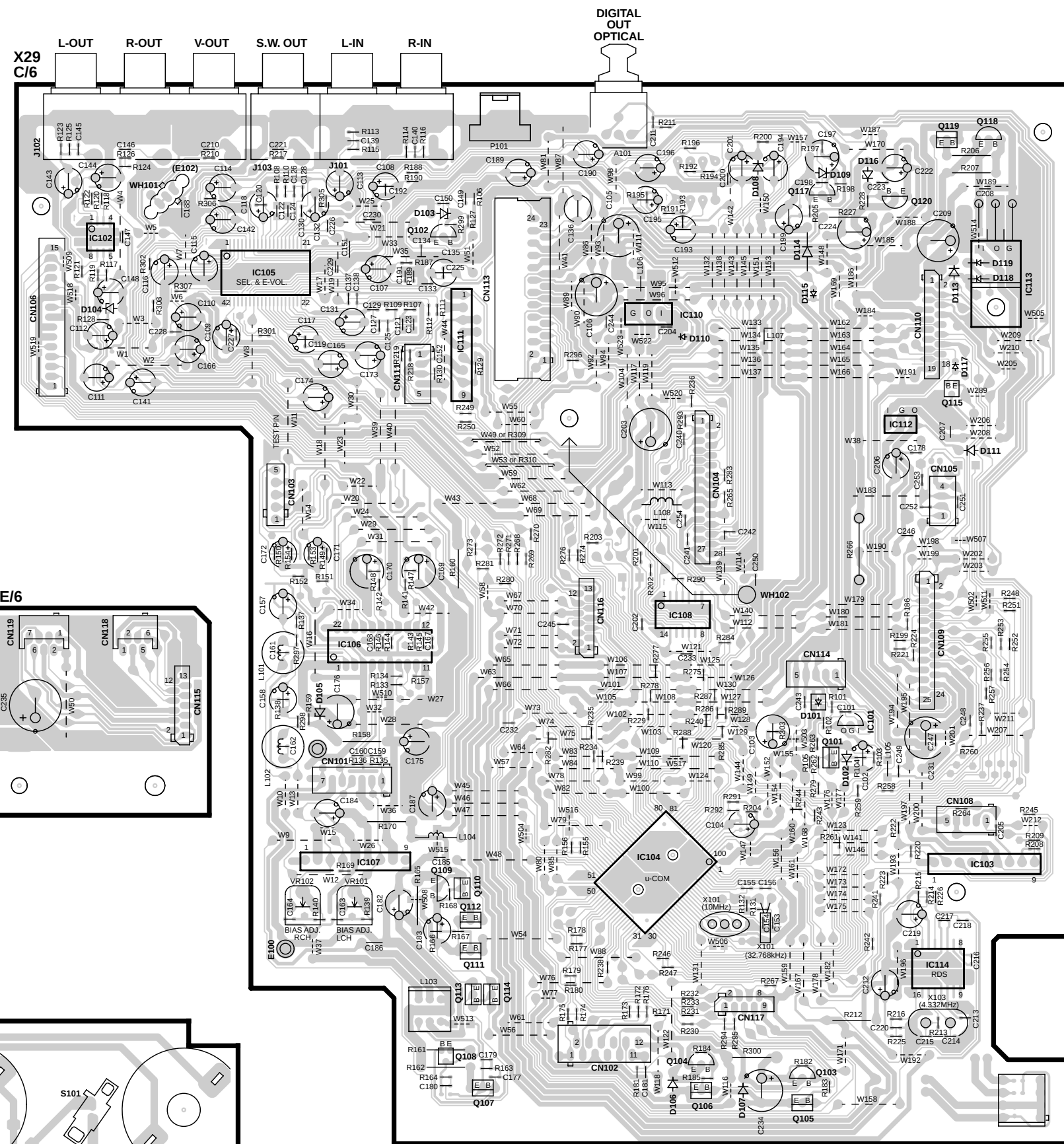
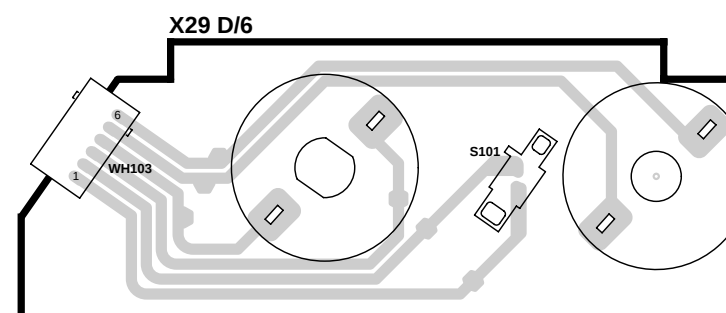
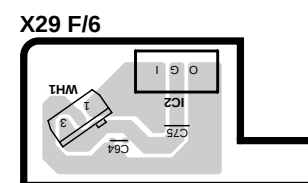
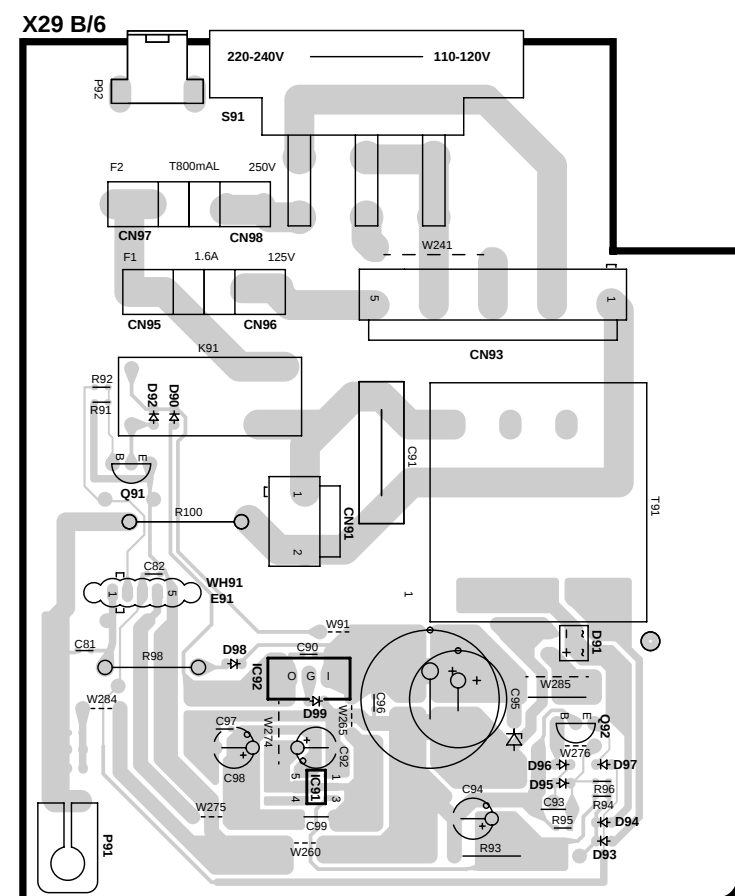
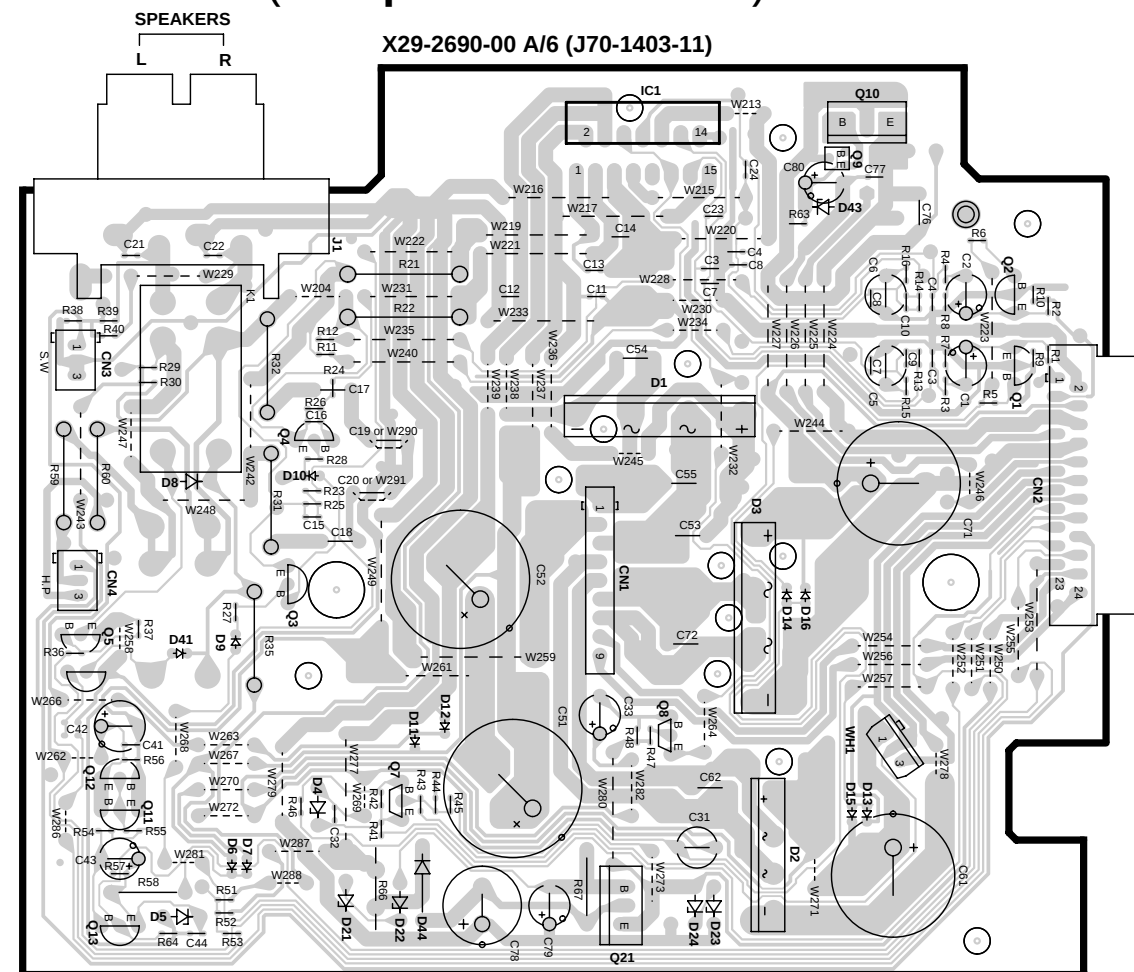
HOW TO THE PARTS LIST

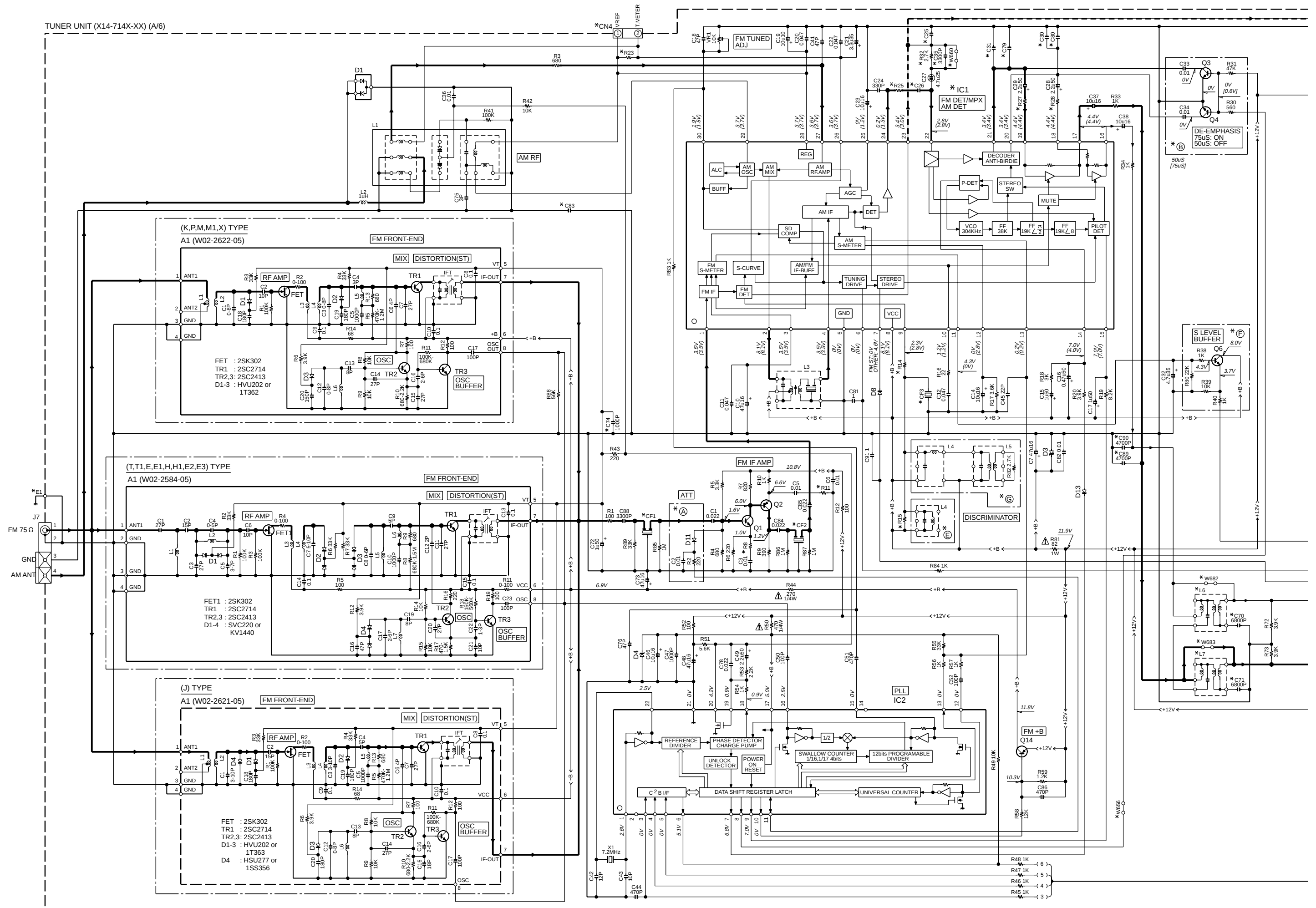
HOW TO READ THE PARTS LIST

ABBREVIATION OF MODEL AND MASS PRODUCTION'S DESTINATIONS

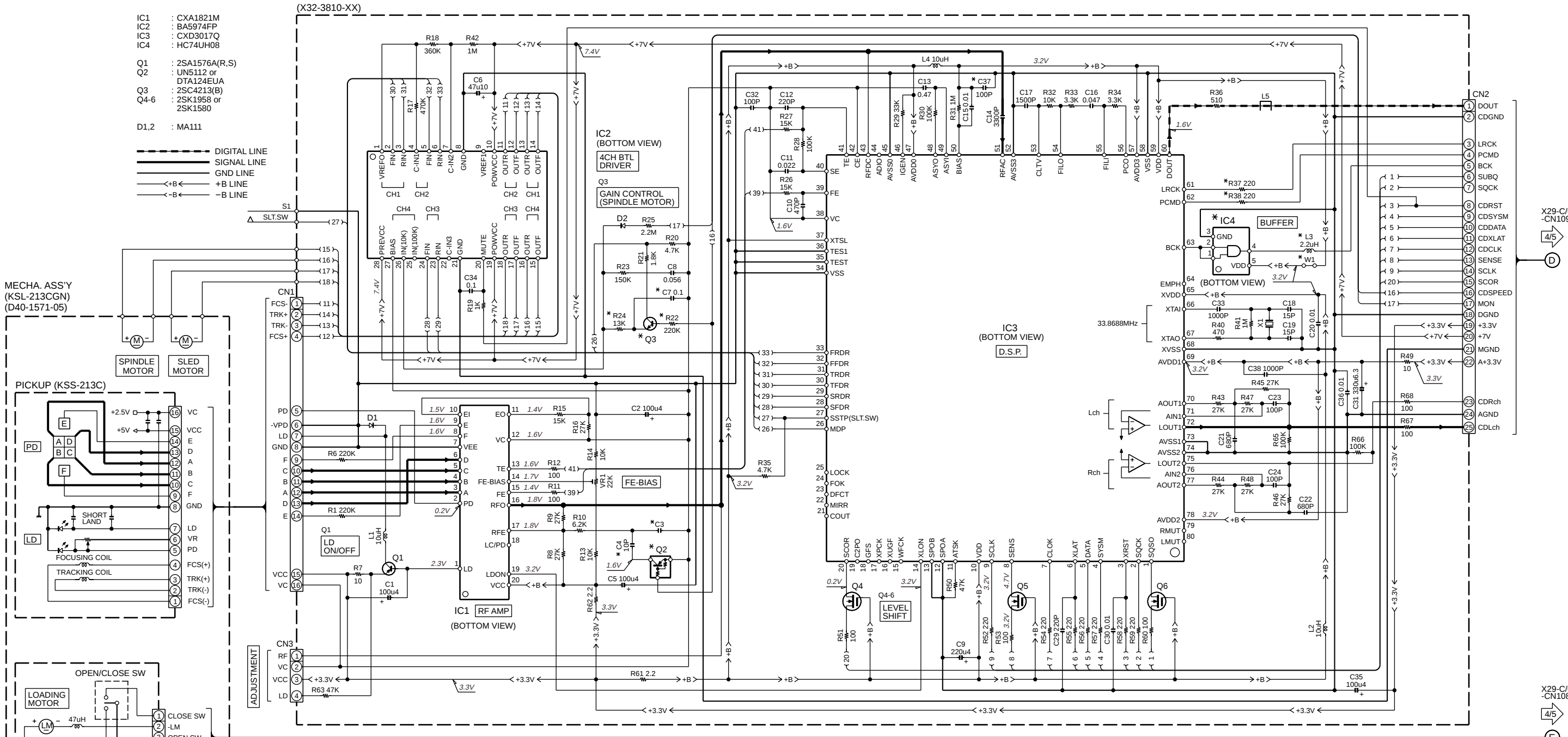
MODEL	ABB.	Australia	Canada	China	England	Europe	Germany	Korea	Malaysia
RXD-M32-L	L	X	-	-	T	E	-	H	-
RXD-M32E-L	L	-	-	-	-	E2	-	-	-
RXD-M32-S	S	X	P	-	T	E	-	H	-
RXD-M32E-S	S	-	-	-	-	E2	-	-	-
RXD-M32-Y	Y	-	-	-	T1	E1	-	-	-
RXD-M32E-Y	Y	-	-	-	-	E3	-	-	-
RXD-M32-H	H	X	-	-	T	E	-	H	-
RXD-M32E-H	H	-	-	-	-	E2	-	-	-
RXD-M32-W	W	-	-	-	-	E	-	-	-
RXD-M32E-W	W	-	-	-	-	E2	-	-	-
RXD-M32-LS	LS	-	P	-	-	-	-	-	-
MODEL	ABB.	Mexico	PX/AAFES	Russia	Scandinavia	Shanghai	USA	Other area	
RXD-M32-L	L	-	-	-	-	-	-	M	-
RXD-M32E-L	L	-	-	-	-	-	-	-	-
RXD-M32-S	S	-	-	-	-	-	K	M	-
RXD-M32E-S	S	-	-	-	-	-	-	-	-
RXD-M32-Y	Y	-	-	-	-	-	-	M1	-
RXD-M32E-Y	Y	-	-	-	-	-	-	-	-
RXD-M32-H	H	-	-	-	-	-	-	M	-
RXD-M32E-H	H	-	-	-	-	-	-	-	-
RXD-M32-W	W	-	-	-	-	-	-	-	-
RXD-M32E-W	W	-	-	-	-	-	-	-	-
RXD-M32-LS	LS	-	-	-	-	-	K	-	-

PC BOARD(Component side view)





1
2
3
4
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7



RXD-SH3MD-L/SH3MD-S/SH3MD-H/SH3MD-LS/SH3MD-W (X32-3810-00)										
DESTINATION	ABB.	UNIT No.	R22,24,37,38	C3	C4,7	C37	Q2,3	L3	W1	IC4
COUNTRY	JAPAN	J	0-00	YES	15P	YES	NO	YES	YES	YES

RXD-SH3MD-Y (X32-3810-00)										
DESTINATION	ABB.	UNIT No.	R22,24,37,38	C3	C4,7	C37	Q2,3	L3	W1	IC4
COUNTRY	JAPAN	J1	0-00	YES	15P	YES	NO	YES	YES	YES

RXD-SH3MD-D (X32-3810-00)										
DESTINATION	ABB.	UNIT No.	R22,24,37,38	C3	C4,7	C37	Q2,3	L3	W1	IC4
COUNTRY	JAPAN	J2	0-00	YES	15P	YES	NO	YES	YES	YES

RXD-M32MD-S/M32MD-LS/M32M-L (X32-3810-00)										
DESTINATION	ABB.	UNIT No.	R22,24,37,38	C3	C4,7	C37	Q2,3	L3	W1	IC4
GENERAL MARKET	M									
U.K.	T	0-00	YES	15P	YES	NO	YES	YES	YES	YES
EUROPE	E									
KOREA	H									
AUSTRALIA	X									

RXD-M32MD-Y (X32-3810-00)										
DESTINATION	ABB.	UNIT No.	R22,24,37,38	C3	C4,7	C37	Q2,3	L3	W1	IC4
GENERAL MARKET	M1	0-00	YES	15P	YES	NO	YES	YES	YES	YES
KOREA	H1									

RXD-M32-S/M32-LS (X32-3810-01)										
DESTINATION	ABB.	UNIT No.	R22,24,37,38	C3	C4,7	C37	Q2,3	L3	W1	IC4
U.S.A.	K	0-01	NO	22P	NO	YES	NO	NO	NO	NO
CANADA	P									

RXD-M32-S/M32-L/M32-H/M32-W (X32-3810-01)										
DESTINATION	ABB.	UNIT No.	R22,24,37,38	C3	C4,7	C37	Q2,3	L3	W1	IC4
GENERAL MARKET	M									
AUSTRALIA	X	0-01	NO	22P	NO	YES	NO	NO	NO	NO
U.K.	T									
EUROPE	E									
KOREA	H									

RXD-M32E-Y (X32-3810-01)										
DESTINATION	ABB.	UNIT No.	R22,24,37,38	C3	C4,7	C37	Q2,3	L3	W1	IC4
COUNTRY	EUROPE	E3	0-01	NO	22P	NO	YES	NO	NO	NO

RXD-M32E-L/M32E-H/M32E-S/M32E-W (X32-3810-01)										
DESTINATION	ABB.	UNIT No.	R22,24,37,38	C3	C4,7	C37	Q2,3	L3	W1	IC4
COUNTRY	EUROPE	E2	0-01	NO	22P	NO	YES	NO	NO	NO

RXD-M32-Y (X32-3810-01)										
DESTINATION	ABB.	UNIT No.	R22,24,37,38	C3	C4,7	C37	Q2,3	L3	W1	IC4
GENERAL MARKET	M1	0-01	NO	22P	NO	YES	NO	NO	NO	NO
U.K.	T1									
EUROPE	E1									

RXD-SH3MD-L/SH3MD-S/SH3MD-D/SH3MD-H (3/5)
RXD-SH3MD-Y/SH3MD-LS/SH3MD-W (3/5)
RXD-M32MD-S/M32MD-Y/M32MD-LS/M32MD-L (3/5)
RXD-M32-S/M32-L/M32-L/M32-Y/M32-H/M32-W (3/5)
RXD-M32E-L/M32E-Y/M32E-H/M32E-S/M32E-W (3/5)

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

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MDM-99D
-CN1501
15
A
MDM-99D
-CN1502
15
B
X32-
CN2
15
D

2

3

4

5

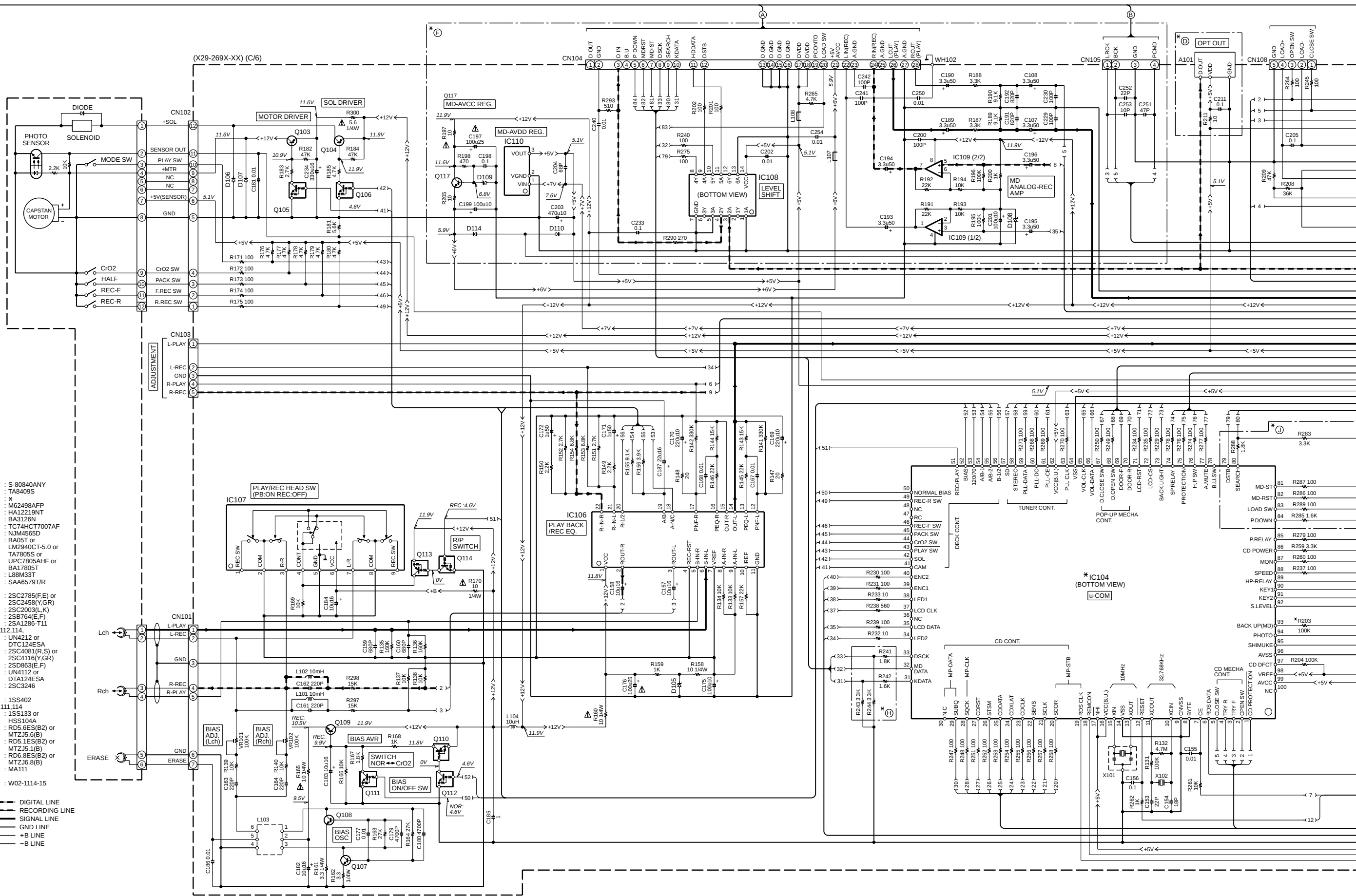
6

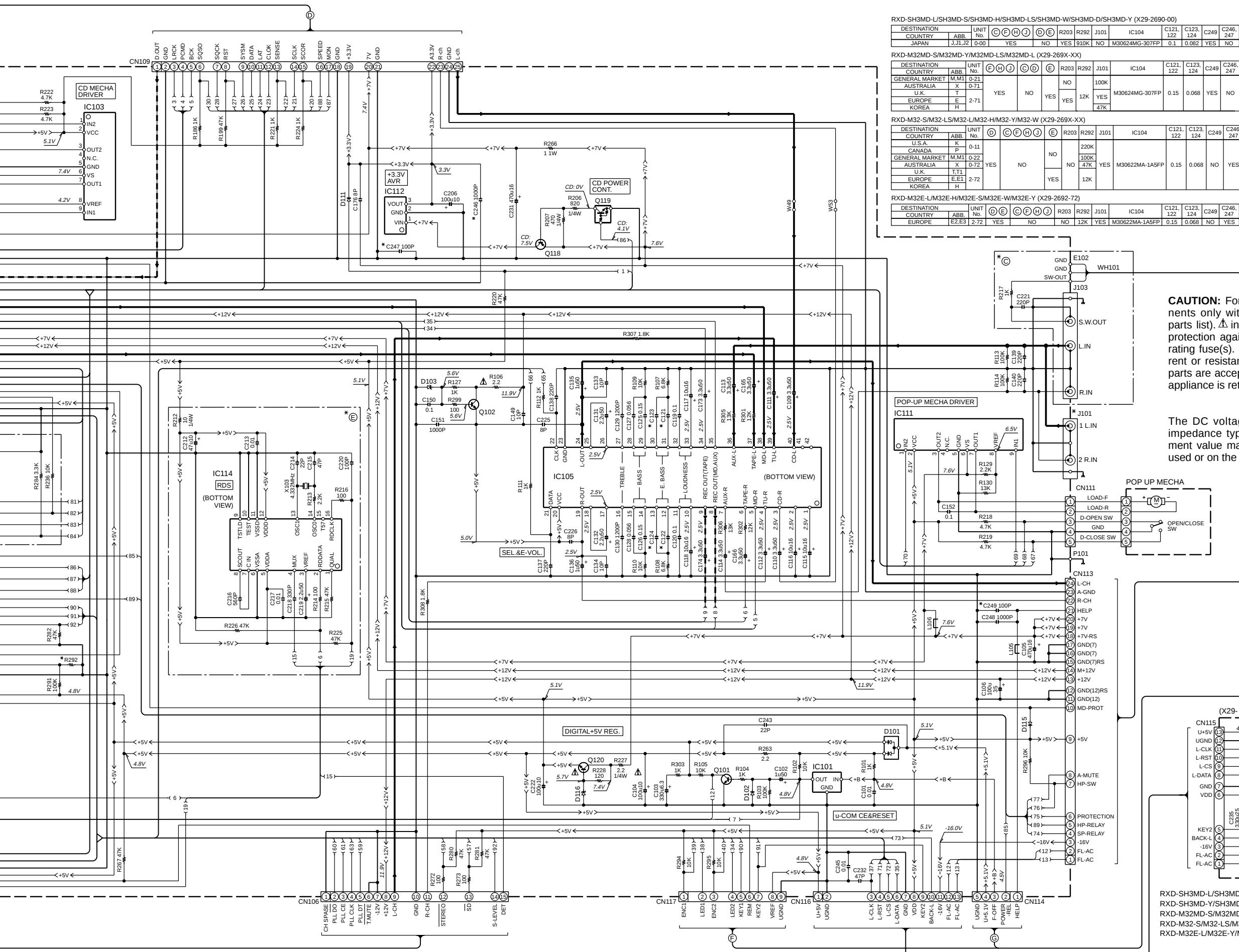
X14-A/6
-E2
15
C

IC101 : S-80840ANY
IC103,111 : TA8409S
IC104 : *
IC105 : M62498AFP
IC106 : HA12219NT
IC107 : BA3126N
IC108 : TC74HCT7007AF
IC109 : NJM4556D
IC110 : BA05T or LM2940CT-5.0 or TA7805S or UPC7805AHF or BA17805T
IC112 : L88M33T
IC114 : SAA6579T/R
Q101,107 : 2SC2785(F,E) or 2SC2458(Y,GR)
Q102,117 : 2SC2003(L,K)
Q103 : 2SB764(E,F)
Q104,118 : 2SA1286-T11
Q105,106,111,112,114,119 : UN4212 or DTC124ESA
Q108 : 2SC4081(R,S) or 2SC4116(Y,GR)
Q109 : 2SD863(E,F)
Q110,113 : UN4112 or DTA124ESA
Q120 : 2SC3246
D101 : 1SS402
D102,106,107,111,114 : 1SS133 or HSS104A
D103,105,116 : RD5.6ES(B2) or MTZJ5.6(B)
D108 : RD5.1ES(B2) or MTZJ5.1(B)
D109 : RD6.9ES(B2) or MTZJ6.8(B)
D110,115 : MA111
A101 : W02-1114-15

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

X14-A/6
-E2
15
C





RXD-SH3MD-L/SH3MD-S/SH3MD-H/SH3MD-LS/SH3MD-W/SH3MD-D/SH3MD-Y (X29-2690-00)																
DESTINATION		UNIT No.	C	F	H	J	D	E	R203	R292	J101	IC104	C121, 122	C123, 124	C249	C246, 247
COUNTRY	ABB.															
JAPAN	J,J1,J2	0-00	YES				NO	YES	910K	NO	M30624MG-307FP	0.1	0.082	YES	NO	

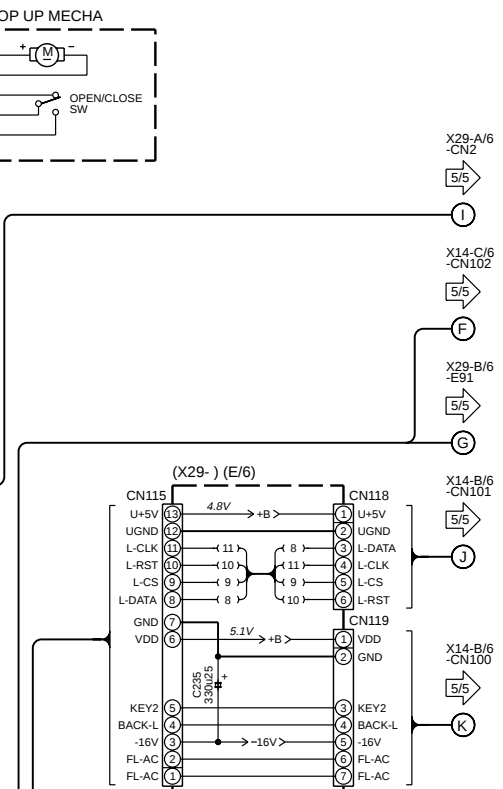
[illegible]

RXD-M32-S/M32-LS/M32-LH/M32-V/M32-M (X29-269X-XX)																
DESTINATION		UNIT	D	C	F	H	U	E	R203	R292	J101	IC104	C121, 122	C123, 124	C249	C246 247
COUNTRY	ABB.															
U.S.A.	K	0-11														
CANADA	P									220K						
GENERAL MARKET	M.M.I	0-22								100K						
AUSTRALIA	X	0-72	YES						NO	47K	YES	M30622MA-1A5FP	0.15	0.068	NO	YES
U.K.	T.T.I															
EUROPE	E.E.I	2-72														
KOREA	H							YES		12K						

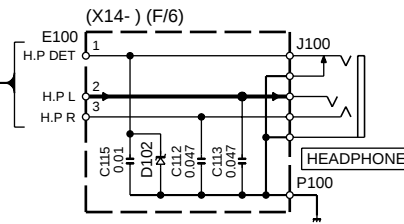
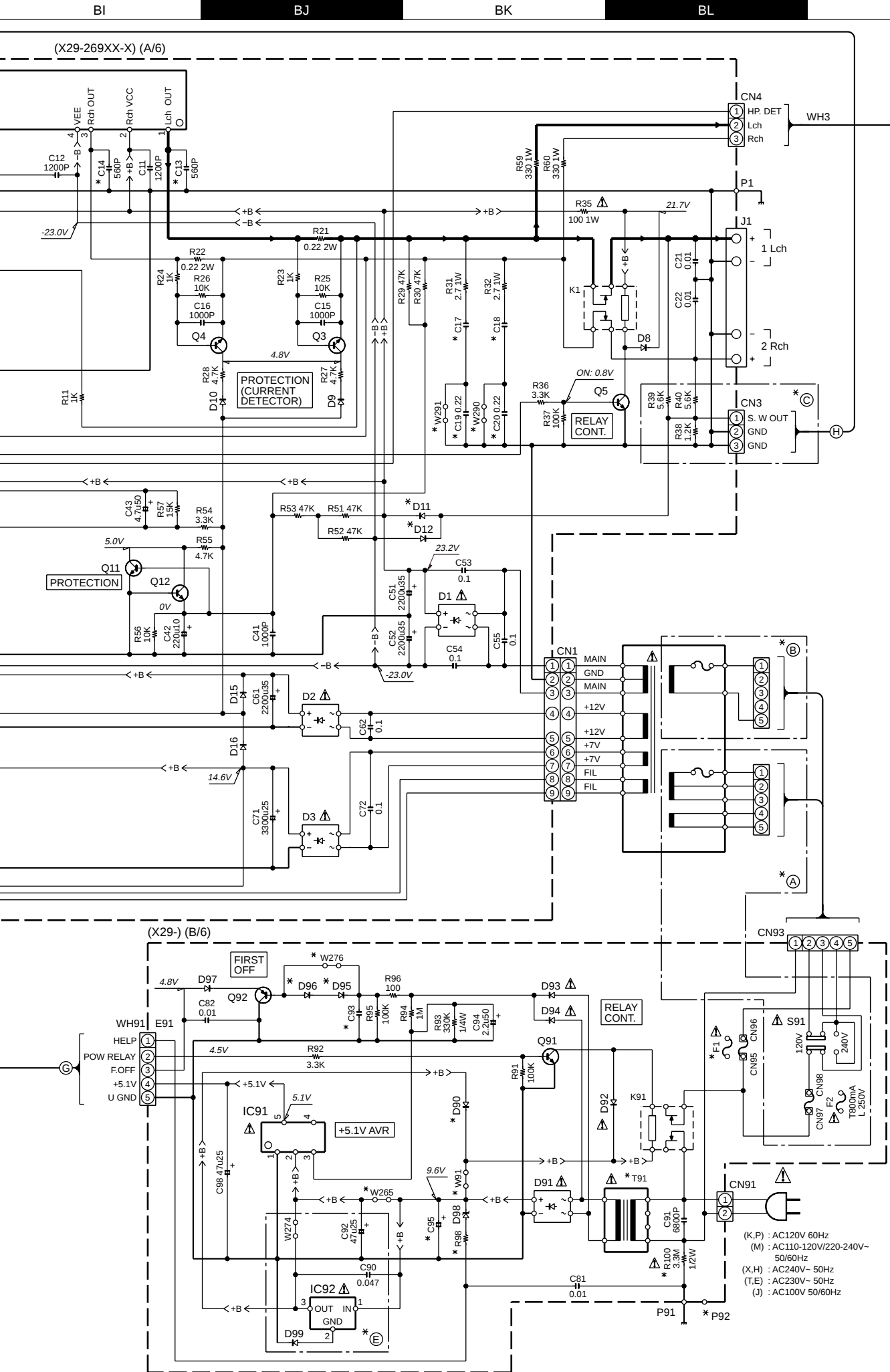
RXD-M32E-L/M32E-H/M32E-S/M32E-W/M32E-Y (X29-2692-72)																
DESTINATION		UNIT No.	Ⓓ	Ⓔ	Ⓒ	Ⓕ	Ⓗ	Ⓙ	R203	R292	J101	IC104	C121, 122	C123, 124	C249	C246, 247
COUNTRY	ABB.															
EUROPE	E2,E3	2-72	YES		NO				NO	12K	YES	M30622MA-1A5FP	0.15	0.068	NO	YES

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.

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RXD-SH3MD-L/SH3MD-S/SH3MD-D/SH3MD-H (4/5)
 RXD-SH3MD-Y/SH3MD-LS/SH3MD-W (4/5)
 RXD-M32MD-S/M32MD-Y/M32MD-LS/M32MD-L (4/5)
 RXD-M32-S/M32-LS/M32-L/M32-Y/M32-H/M32-W (4/5)
 RXD-M32E-L/M32E-Y/M32E-H/M32E-S/M32E-W (4/5)



RXD-SH3MD-L/SH3MD-S/SH3MD-H/SH3MD-LS/SH3MD-W/SH3MD-D/SH3MD-Y (X29-2690-00)

DESTINATION	COUNTRY	ABB.	UNIT No.	(A)	(E)	(B)	(C)	W91, 265, 290, 291	W276	IC92	P92	D11, 12, 95, 96	D90	R98	R100	C13, 14, 19, 20	C17, 18, 93	C95	F1	F2	T91
JAPAN		J,J1,J2	0-00	NO	YES	YES	NO	YES	NO	NO	YES	YES	NO	100 1W	NO	NO	0.1	3300u16	1.6A 125V	NO	L07-2758-05

RXD-M32MD-S/M32MD-Y/M32MD-LS/M32MD-L (X29-269X-XX)																								
DESTINATION		UNIT No.	(A)	(E)	(B)	(C)	W91, 265	W276	W290, 291	IC92	P92	D11,12	D90	D95,96	R98	R100	C13, 14	C17-20	C93	C95	F1	F2	T91	
COUNTRY	ABB.	M.M1	0-21	YES	NO	NO	NO	YES	NO	YES	NO	NO	YES	NO	56 1W	NO	560P	0.22	0.18	3300u25	T800mA L 250V	T800mA L 250V	L07-2758-05	
GENERAL MARKET	X	M	0-71	NO	YES		NO	YES		NO	100 1W		0.1	3300u16	L07-2897-08									
AUSTRALIA	T			NO	YES		NO	NO		YES														
U.K.	E		2-71	NO	YES		NO	NO		YES														
EUROPE	H,H1																							
KOREA																								

RXD-M32-S/M32-LS/M32-L/M32-H/M32-Y/M32-W (X29-269X-XX)																									
DESTINATION		UNIT No.	(A)	(E)	(B)	(C)	W91, 265	W276	W290, 291	IC92	P92	D11,12	D90	D95,96	R98	R100	C13, 14	C17, 18	C19, 20	C93	C95	F1	F2	T91	
U.S.A.	K	0-11	NO	YES			YES	NO	YES	NO	YES		NO	YES	100 1W	YES	NO	0.1	NO	0.1	3300u16	1.6A 125V	NO	L07-2758-05	
CAIDA	P																								
GENERAL MARKET	M,M1	0-22	YES	NO			NO	YES		YES	NO		YES	NO	56 1W					0.18	3300u25		T800mA L 250V		
AUSTRALIA	X	0-72				NO						NO													
U.K.	T,T1																								
EUROPE	E,E1	2-72	NO	YES			YES	NO	NO	NO	YES		NO	YES	100 1W	NO	560P	0.22		0.1	3300u16	T800mA L 250V	NO	L07-2897-08	
KOREA	H																								

RXD-M32E-L/M32E-H/M32E-S/M32E-W/M32E-Y (X29-2692-72)

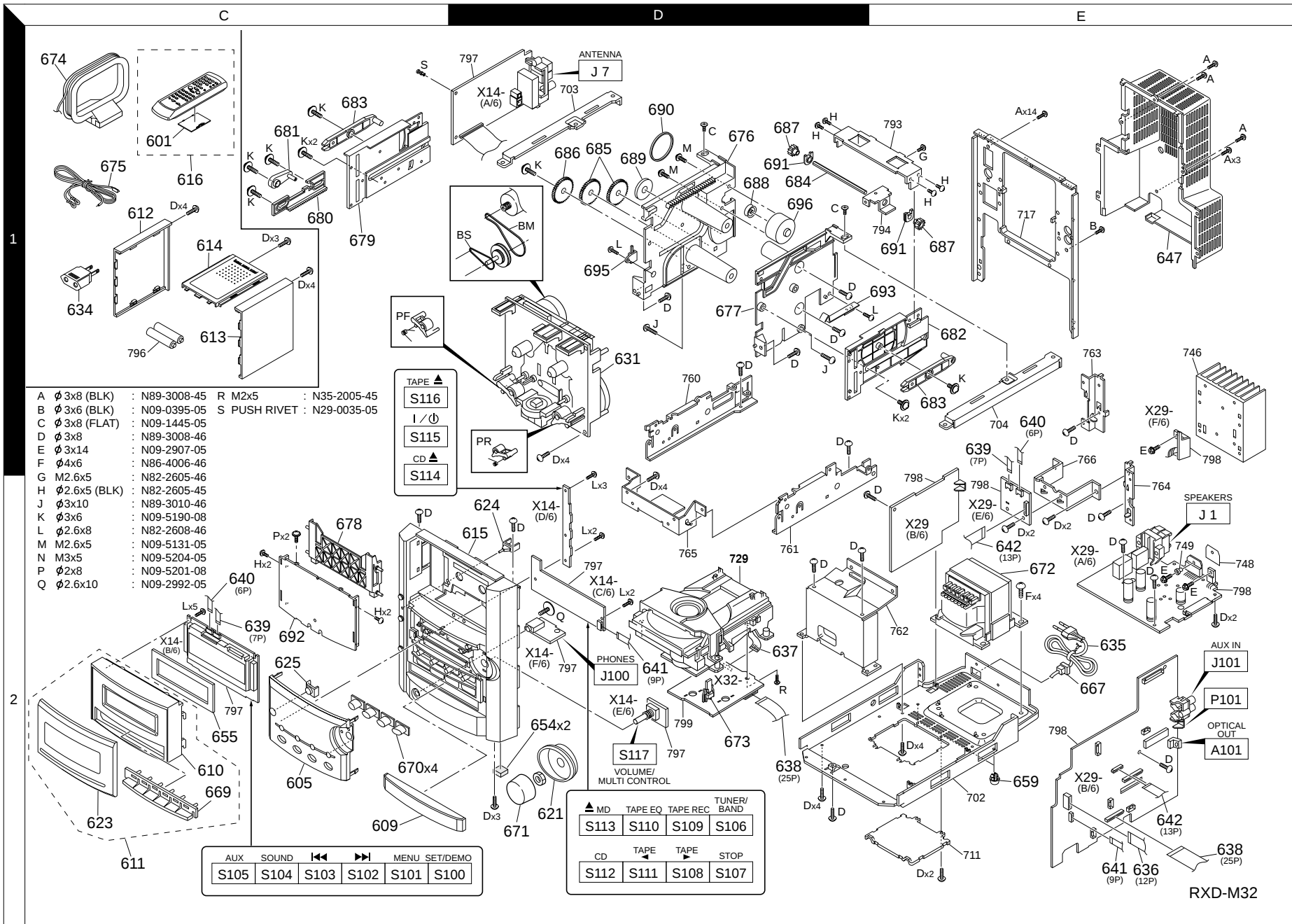
DESTINATION	COUNTRY	ABB.	UNIT No.	(A)	(C)	(E)	(B)	W91, 265	W276, 290, 291	IC92	P92	D11, 12, 90	D95, 96	R98	R100	C13, 14	C17, 20	C93	C95	F1	F2	T91
EUROPE		E2,E3	2-72	NO	YES	YES	YES	YES	NO	NO	YES	NO	YES	100 1W	NO	560P	0.22	0.1	3300u16	T800mA L 250V	NO	L07-2897-08

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RXD-SH3MD-L/SH3MD-S/SH3MD-D/SH3MD-H/SH3MD-Y/SH3MD-LS/SH3MD-W (5/5)
 RXD-M32MD-S/M32MD-Y/M32MD-LS/M32MD-L (5/5)
 RXD-M32-S/M32-LS/M32-L/M32-Y/M32-H/M32-W (5/5)
 RXD-M32E-L/M32E-Y/M32E-H/M32E-S/M32E-W (5/5)

EXPLODED VIEW (UNIT)



RXD-M32

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

①

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
RXD-M32						
601	1C		A09-1161-08	BATTERY COVER	SURVICE	
605	2C	*	A21-3845-08	DRESSING PANEL	CENTOR	KPMX
605	2C	*	A21-3847-08	DRESSING PANEL	CENTOR	TEE2H
609	2C	*	A29-1099-08	PANEL	CD	
610	2C	*	A29-1101-08	PANEL	LID	
611	2C	*	A29-1121-08	PANEL ASSY	LID	
612	1C	*	A50-1354-08	SIDE PLATE	L,BLUE	MXH
612	1C	*	A50-1354-08	SIDE PLATE	L,BLUE	TEE2
612	1C	*	A50-1355-08	SIDE PLATE	L,SILVER	KPMXH
612	1C	*	A50-1355-08	SIDE PLATE	L,SILVER	TEE2
612	1C	*	A50-1357-08	SIDE PLATE	L,GRAY-S	MXH
612	1C	*	A50-1357-08	SIDE PLATE	L,GRAY-S	TEE2
612	1C	*	A50-1358-08	SIDE PLATE	L,YELLOW-S	E2
612	1C	*	A50-1358-08	SIDE PLATE	L,YELLOW-S	M1T1E1
612	1C	*	A50-1359-08	SIDE PLATE	L,BLUE-S	KP
612	1C	*	A50-1372-08	SIDE PLATE	L,WHITE-S	EE2
613	1C	*	A50-1361-08	SIDE PLATE	R,BLUE	MXH
613	1C	*	A50-1361-08	SIDE PLATE	R,BLUE	TEE2
613	1C	*	A50-1362-08	SIDE PLATE	R,SILVER	EE2
613	1C	*	A50-1362-08	SIDE PLATE	R,SILVER	KPMXH
613	1C	*	A50-1364-08	SIDE PLATE	R,GRAY-S	MXH
613	1C	*	A50-1364-08	SIDE PLATE	R,GRAY-S	TEE2
613	1C	*	A50-1365-08	SIDE PLATE	R,YELLOW-S	E2
613	1C	*	A50-1365-08	SIDE PLATE	R,YELLOW-S	M1T1E1
613	1C	*	A50-1366-08	SIDE PLATE	R,BLUE-S	KP
613	1C	*	A50-1373-08	SIDE PLATE	R,WHITE-S	EE2
614	1C	*	A52-0387-08	TOP PLATE		
615	2D	*	A60-1916-08	PANEL ASSY	BLUE	MXHTEE2
615	2D	*	A60-1923-08	PANEL ASSY	BLUE-S	KP
615	2D	*	A60-1919-08	PANEL ASSY	GRAY-S	MXHTEE2
615	2D	*	A60-1924-08	PANEL ASSY	SILVER	KP
615	2D	*	A60-1917-08	PANEL ASSY	SILVER	MXHTEE2
615	2D	*	A60-1922-08	PANEL ASSY	WHITE-S	EE2
615	2D	*	A60-1920-08	PANEL ASSY	YELLOW-S	T1E1M1E3
616	1C	*	A70-1380-08	REMOTE CONTROL ASSY 38,BLUE		KP
616	1C	*	A70-1380-08	REMOTE CONTROL ASSY 38,BLUE		KPMX
616	1C	*	A70-1381-08	REMOTE CONTROL ASSY 46,BLUE		HTEE2
616	1C	*	A70-1394-08	REMOTE CONTROL ASSY 38,WHITE		KPX
616	1C	*	A70-1395-08	REMOTE CONTROL ASSY 38,SILVER		M
616	1C	*	A70-1395-08	REMOTE CONTROL ASSY 38,SILVER		MX
616	1C	*	A70-1396-08	REMOTE CONTROL ASSY 46,YELLOW		T1E1E2
616	1C	*	A70-1397-08	REMOTE CONTROL ASSY 46,SILVER		EE2
616	1C	*	A70-1397-08	REMOTE CONTROL ASSY 46,SILVER		HTEE2
616	1C	*	A70-1397-08	REMOTE CONTROL ASSY 46,SILVER		HTEE2
616	1C	*	A70-1398-08	REMOTE CONTROL ASSY38,YELLOW-S		M1
621	2D	*	B07-2517-08	ESCUTCHEON		
623	2C	*	B10-3591-08	FRONT GLASS	DECK	
624	2D	*	B12-0396-08	INDICATOR	POWER	
625	2C	*	B12-0397-08	INDICATOR	REMOCON	
-			B46-0096-53	WARRANTY CARD		X
-			B46-0310-03	WARRANTY CARD		EE2
-			B46-0328-03	WARRANTY CARD		K
-			B46-0347-03	WARRANTY CARD		P
-			B46-0350-00	QUESTIONAIRE CARD		T

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 .

Remarks: Refer to page2 and 18.

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②

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
-			B58-0964-13	CAUTION CARD	K	
-			B58-0965-13	CAUTION CARD	XT	
-			B58-0966-13	CAUTION CARD	MEE2	
-			B58-0967-03	CAUTION CARD	P	
-			B58-1674-03	CAUTION CARD	K	
-		*	B60-4726-08	INSTRUCTION MANUAL (EN)	E2	
-		*	B60-4726-08	INSTRUCTION MANUAL (EN)	KPMXT	
-		*	B60-4727-08	INSTRUCTION MANUAL (TC)	M	
-		*	B60-4728-08	INSTRUCTION MANUAL (FR)	EP	
-		*	B60-4729-08	INSTRUCTION MANUAL (GE)	E	
-		*	B60-4730-08	INSTRUCTION MANUAL (NE)	E	
-		*	B60-4731-08	INSTRUCTION MANUAL (IT)	E	
-		*	B60-4732-08	INSTRUCTION MANUAL (ES)	E	
-		*	B60-4732-08	INSTRUCTION MANUAL (ES)	M	
-		*	B60-4772-08	INSTRUCTION MANUAL (PL)	E2	
-		*	B60-4773-08	INSTRUCTION MANUAL (HU)	E2	
-		*	B60-4774-08	INSTRUCTION MANUAL (CZ)	E2	
-		*	B60-4775-08	INSTRUCTION MANUAL (RU)	E2	
-		*	B60-4818-08	INSTRUCTION MANUAL (ARABIC)	M	
631	1D	*	D40-1681-05	MECHANISM ASSY DECK,VOLTEX		
BM	1D		D16-0741-08	BELT(MAIN)		
BS	1D		D16-0705-08	BELT(SUB)		
PF	1C		D14-0380-08	PINCH ROLLER(FWD)		
PR	1D		D14-0381-08	PINCH ROLLER(RVS)		
⚠	634	1C	E03-0115-05	AC PLUG ADAPTER	M	
⚠	635	2E	E30-2592-15	AC CORD	MEE2	
⚠	635	2E	E30-2717-05	AC CORD	X	
⚠	635	2E	E30-2721-05	AC CORD	T	
⚠	635	2E	E30-2845-05	AC CORD	H	
⚠	635	2E	E30-2924-05	AC CORD	KP	
636	2E	*	E35-2576-08	FLAT CABLE	DECK12PFFC	
637	2D	*	E35-2578-08	FLAT CABLE	CD16PFFC	
638	2D,2E	*	E35-2579-08	FLAT CABLE	CD25PFFC	
639	2C,1E	*	E35-2581-08	FLAT CABLE	LCD7PFFC/7P	
640	2C,1E	*	E35-2582-08	FLAT CABLE	LCD7PFFC/6P	
641	2D,2E	*	E35-2583-08	FLAT CABLE	X14-X29,9P	
642	2E	*	E35-2637-08	FLAT CABLE	SHIELD/FFC	
-		*	E35-2577-08	WIRING HARNESS	DECK HEADLEAD	
647	1E	*	F07-1704-08	COVER		KPX
647	1E	*	F07-1705-08	COVER		M
-		*	F29-0127-08	INSULATING TUBE(AC CORD)		
654	2D	*	G11-2342-08	CUSHION		
655	2C	*	G11-2734-08	SOFT TAPE	FORLCD	
-		*	H10-7669-08	POLYSTYRENE FOAMED FIXTURE L		
-		*	H10-7670-08	POLYSTYRENE FOAMED FIXTURE R		
-		*	H25-0232-04	PROTECTION BAG ACCESSORY		MXHEE2
-		*	H25-0651-04	PROTECTION BAG ACCESSORY		T
-		*	H25-0661-04	PROTECTION BAG SET		M
-		*	H25-1516-04	PROTECTION BAG SET		EE2
-		*	H25-1516-04	PROTECTION BAG SET		KPXH
-		*	H50-3691-08	ITEM CARTON CASE GLAY-S		KP
-		*	H50-3691-08	ITEM CARTON CASE GLAY-S		X
-		*	H50-3740-08	ITEM CARTON CASE GLAY-S,M		MH

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-		*	H50-3741-08	ITEM CARTON CASE BLUE-S	KP	LS
-		*	H50-3742-08	ITEM CARTON CASE YELLOW	M1	Y
-		*	H50-3743-08	ITEM CARTON CASE BLUE	X	L
-		*	H50-3744-08	ITEM CARTON CASE BLUE,M	H	S
-		*	H50-3744-08	ITEM CARTON CASE BLUE,M	MH	L
-		*	H50-3745-08	ITEM CARTON CASE BLUE	TE	L
-		*	H50-3746-08	ITEM CARTON CASE YELLOW-S	T1E1	Y
-		*	H50-3747-08	ITEM CARTON CASE BLUE,M	TE	H
-		*	H50-3794-08	ITEM CARTON CASE SILVER	X	S
-		*	H50-3839-08	ITEM CARTON CASE BLUE	M	S
-		*	H50-3840-08	ITEM CARTON CASE SILVER	TE	S
-		*	H50-3841-08	ITEM CARTON CASE WHITE^S	E	W
-		*	H50-3847-08	ITEM CARTON CASE BLUE	E2	L
-		*	H50-3848-08	ITEM CARTON CASE YELLOW-S	E2	Y
-		*	H50-3849-08	ITEM CARTON CASE GLAY-S	E2	H
-		*	H50-3851-08	ITEM CARTON CASE SILVER	E2	S
-		*	H50-3852-08	ITEM CARTON CASE WHITE-S	E2	W
659	2E		J02-0370-05	FOOT		
667	2E		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
669	2C	*	K29-7780-08	KNOB (LID)		S
670	2C	*	K29-7786-08	KNOB PPB5-6		LS
670	2C	*	K29-7786-08	KNOB PPB5-6	KP	L
670	2C	*	K29-7786-08	KNOB PPB5-6	MXH	L
670	2C	*	K29-7786-08	KNOB PPB5-6	TEE2	L
670	2C	*	K29-7787-08	KNOB PY8-2(Y)	E2	Y
670	2C	*	K29-7787-08	KNOB PY8-2(Y)	T1E1M1	Y
670	2C	*	K29-7788-08	KNOB PN9-1	E2	W
670	2C	*	K29-7788-08	KNOB PN9-1	HTEE2	H
670	2C	*	K29-7788-08	KNOB PN9-1	MX	H
671	2D	*	K29-7789-08	KNOB		
672	2E	*	L07-2868-08	POWER TRANSFORMER	M	
672	2E	*	L07-2869-08	POWER TRANSFORMER	HTEE2	
672	2E	*	L07-2870-08	POWER TRANSFORMER	X	
672	2E	*	L07-2871-08	POWER TRANSFORMER	KP	
P		*	N09-5201-08	TAPTITE SCREW A29(DECK)		
673	2D		S74-0065-05	LEAF SWITCH (S1)		
674	1C		T90-0852-05	LOOP ANTENNA		
675	1C	*	T90-0861-05	LEAD WIRE ANTENNA		
676	1D	*	A10-3515-08	CHASSIS		
677	1D	*	A10-3516-08	CHASSIS		
678	1D	*	A53-2194-08	CASSETTE HOLDER		
679	1D	*	D10-3934-08	SLIDER		
680	1D	*	D10-3935-08	SLIDER		
681	1D	*	D10-3936-08	ARM		
682	1E	*	D10-3937-08	SLIDER		
683	1E	*	D10-3938-08	ARM		
684	1D	*	D10-3940-08	ROD		
685	1D	*	D13-1989-08	GEAR		
686	1D	*	D13-1990-08	GEAR		
687	1E	*	D13-1991-08	GEAR		

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688	1D	*	D15-0430-08	PULLEY		
689	1D	*	D15-0431-08	PULLEY		
690	1D	*	D16-0747-08	BELT		
691	1E	*	D23-0337-08	RETAINER		
692	1D	*	J19-6073-08	HOLDER		
693	1D	*	G02-1712-08	FLAT SPRING		
695	1D		S64-0026-05	LEVER SWITCH		
696	1D		T42-0955-05	DC MOTOR		
D			N89-3008-46	BINDING HEAD TAPTITE SCREW		
G			N86-2605-46	BINDING HEAD TAPTITE SCREW		
H			N82-2605-45	BINDING HEAD TAPTITE SCREW		
K		*	N09-5190-08	SET SCREW		
L			N82-2608-46	BINDING HEAD TAPTITE SCREW		
M			N09-5131-05	MACHINE SCREW		
DISPLAY UNIT (X14-714X-XX)						
-		*	B11-1509-08	COLOR FILTER (BLUE)	KPMTEH	
-		*	B11-1509-08	COLOR FILTER (BLUE)	XE2	
-		*	B11-1510-08	COLOR FILTER (YELLOW)	E3	
-		*	B11-1510-08	COLOR FILTER (YELLOW)	M1E1T1	
D104		*	B30-2574-05	LED(GRN3(80))		
D105		*	B30-2567-05	LED(RED(80) HI-BR)		
ED100		*	B38-0233-08	LCD DISPLAY ASSY		
C1			CK73FB1H223K	CHIP C	0.022UF	K
C2			CK73FB1H103K	CHIP C	0.010UF	K
C2			CK73FB1H103K	CHIP C	0.010UF	K
C3			CK73FB1H103K	CHIP C	0.010UF	K
C5 ,6			CK73FB1H103K	CHIP C	0.010UF	K
C7			CE04LW1C470M	ELECTRO	47UF	16WV
C10			CE04LW1C470M	ELECTRO	47UF	16WV
C11 ,12			CK73FB1H473K	CHIP C	0.047UF	K
C14			CE04LW1C100M	ELECTRO	10UF	16WV
C15			CE04LW1H010M	ELECTRO	1.0UF	50WV
C16			CE04RW1HR47M	ELECTRO	0.47UF	50WV
C17			CE04LW1H010M	ELECTRO	1.0UF	50WV
C18			CC73FCH1H470J	CHIP C	47PF	J
C19			CE04RW1A100M	ELECTRO	10UF	10WV
C20			CK73FB1H473K	CHIP C	0.047UF	K
C21			CE04RW1V3R3M	ELECTRO	3.3UF	35WV
C22			CK73FB1H473K	CHIP C	0.047UF	K
C23			CE04LW1C100M	ELECTRO	10UF	16WV
C24			CK73FB1H331K	CHIP C	330PF	K
C25			CC73FCH1H181J	CHIP C	180PF	J
C25			CC73FCH1H181J	CHIP C	180PF	J
C25			CC73FCH1H471J	CHIP C	470PF	J
C26			CK73FB1H183K	CHIP C	0.018UF	K
C26			CK73FB1H183K	CHIP C	0.018UF	K
C26			CK73FB1H223K	CHIP C	0.022UF	K
C27			CE04HW1E4R7M	NP-ELEC	4.7UF	25WV
C28 ,29			CE04LW1H2R2M	ELECTRO	2.2UF	50WV
C30 ,31			CK73FB1H223K	CHIP C	0.022UF	K
C30 ,31			CK73FB1H223K	CHIP C	0.022UF	K
C30 ,31			CK73FB1H223K	CHIP C	0.022UF	K
C30 ,31			CK73FB1H333K	CHIP C	0.033UF	K
C32			CE04LW1V4R7M	ELECTRO	4.7UF	35WV

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C33 ,34 C35 C36 C37 ,38 C41			CK73FB1H103K CK73FB1H332K CK73FB1H103K CE04LW1C100M CC73FCH1H470J	CHIP C 0.010UF K CHIP C 3300PF K CHIP C 0.010UF K ELECTRO 10UF 16WV CHIP C 47PF J	MM1 KPM1X	
C42 C43 C44 C45 C46			CC73FCH1H120J CC73FCH1H100D CK73FB1H471K CC73FCH1H220J CE04LW1C100M	CHIP C 12PF J CHIP C 10PF D CHIP C 470PF K CHIP C 22PF J ELECTRO 10UF 16WV		
C47 C48 C49 C50 C51			CK73FB1H102K CE04LW1C470M CE04LW1H2R2M CC73FSL1H101J CK73FB1H471K	CHIP C 1000PF K ELECTRO 47UF 16WV ELECTRO 2.2UF 50WV CHIP C 100PF J CHIP C 470PF K		
C52 C70 ,71 C70 ,71 C72 C73			CC73FSL1H101J CK73FB1H682K CK73FB1H682K CE04LW1H010M CE04LW1C470M	CHIP C 100PF J CHIP C 6800PF K CHIP C 6800PF K ELECTRO 1.0UF 50WV ELECTRO 47UF 16WV	EE1TT1 HE2E3	
C74 C75 C76 C78 C79 ,80			CK73FB1H102K CC73FCH1H030C CC73FCH1H470J CK73FB1H223K CK73FB1H332K	CHIP C 1000PF K CHIP C 3.0PF C CHIP C 47PF J CHIP C 0.022UF K CHIP C 3300PF K	KP MM1X	
C79 ,80 C79 ,80 C79 ,80 C81 C82			CK73FB1H472K CK73FB1H682K CK73FB1H682K CK73FF1C105Z CK73FB1H103K	CHIP C 4700PF K CHIP C 6800PF K CHIP C 6800PF K CHIP C 1.0UF Z CHIP C 0.010UF K	KP EE1HE2 E3	
C83 C83 C83 C84 ,85 C86			CC73FSL1H101J CC73FSL1H101J CK73FB1H223K CK73FB1H223K CK73FB1H471K	CHIP C 100PF J CHIP C 100PF J CHIP C 0.022UF K CHIP C 0.022UF K CHIP C 470PF K	E2E3 KPEE1H MM1X	
C88 C89 ,90 C91 C100 C101			CK73FB1H332K CK73FB1H472K CK73FF1C105Z CK73EF1C105Z CK73GB1C104K	CHIP C 3300PF K CHIP C 4700PF K CHIP C 1.0UF Z CHIP C 1.0UF Z CHIP C 0.10UF K	KPM1X	
C102,103 C104-106 C110,111 C112,113 C114,115			CK73EF1C105Z CC73GCH1H470J CK73GB1H102K CK73GB1C473K CK73GB1H103K	CHIP C 1.0UF Z CHIP C 47PF J CHIP C 1000PF K CHIP C 0.047UF K CHIP C 0.010UF K		
CN4 CN4 CN4 CN100 CN101		*	E40-4871-05 E40-4871-05 E40-4871-05 E40-8613-05 E40-8635-05	PIN ASSY PIN ASSY PIN ASSY FLAT CABLE CONNECTOR FLAT CABLE CONNECTOR	E3 KPEE1T T1HE2	
CN102 J7 J7 J100		*	E40-8612-05 E20-0321-05 E70-0052-05 E11-0200-05	FLAT CABLE CONNECTOR LOCK TERMINAL BOARD(2P,F) LOCK TERMINAL BOARD MINIATURE PHONE JACK(5P)		

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E1 E1 E1		*	F10-1165-08 F10-1166-08 F10-1166-08	SHIELDING PLATE SHIELDING PLATE SHIELDING PLATE	KPM1X EE1TT1 HE2E3	
-		*	G11-2733-08	SOFT TAPE (LCD)		
- - P100		*	J19-6072-08 J19-6074-08 J21-5845-04	HOLDER (LCD) HOLDER (LCD) MOUNTING HARDWARE		
CF1 ,2 CF1 ,2 CF1 ,2 CF1 ,2 CF3			L72-0531-05 L72-0536-05 L72-0536-05 L72-0596-05 L72-0607-05	CERAMIC FILTER CERAMIC FILTER CERAMIC FILTER CERAMIC FILTER CERAMIC FILTER	MM1X EE1TT1 HE2E3 KP MM1X	
L1 L2 L3 L4 L4			L39-1384-05 L40-1091-17 L30-0911-05 L30-0933-05 L30-0950-05	COMBINATION COIL SMALL FIXED INDUCTOR(1UH) AM IFT FM IFT FM IFT	KP EE1TT1	
L4 L5 L5 L6 ,7 L6 ,7			L30-0950-05 L30-0951-05 L30-0951-05 L79-1236-05 L79-1236-05	FM IFT FM IFT FM IFT LC FILTER LC FILTER	HE2E3 EE1TT1 HE2E3 EE1TT1 HE2E3	
X1			L77-2232-05	CRYSTAL RESONATOR		
R1 R4 R5 R6 R7			RK73GB1J101J RK73GB1J681J RK73FB2A332J RK73GB1J221J RK73FB2A821J	CHIP R 100 J 1/16W CHIP R 680 J 1/16W CHIP R 3.3K J 1/10W CHIP R 220 J 1/16W CHIP R 820 J 1/10W		
R8 R8 R8 R9 R10			RK73GB1J100J RK73GB1J100J RK73GB1J330J RK73FB2A391J RK73FB2A102J	CHIP R 10 J 1/16W CHIP R 10 J 1/16W CHIP R 33 J 1/16W CHIP R 390 J 1/10W CHIP R 1.0K J 1/10W	EE1TT1 HE2E3 KPM1X	
R11 R11 R11 R12 R14			RK73GB1J220J RK73GB1J220J RK73GB1J330J RK73FB2A101J RK73FB2A101J	CHIP R 22 J 1/16W CHIP R 22 J 1/16W CHIP R 33 J 1/16W CHIP R 100 J 1/10W CHIP R 100 J 1/10W	EE1TT1 HE2E3 KPM1X E3	
R14 R14 R14 R15 R15			RK73FB2A101J RK73FB2A101J RK73FB2A271J RK73GB1J333J RK73GB1J333J	CHIP R 100 J 1/10W CHIP R 100 J 1/10W CHIP R 270 J 1/10W CHIP R 33K J 1/16W CHIP R 33K J 1/16W	KPEE1T T1HE2 MM1X EE1TT1 HE2E3	
R15 R16 R17 R18 R19			RK73GB1J472J RK73GB1J220J RK73FB2A362J RK73GB1J302J RK73GB1J822J	CHIP R 4.7K J 1/16W CHIP R 22 J 1/16W CHIP R 3.6K J 1/10W CHIP R 3.0K J 1/16W CHIP R 8.2K J 1/16W	KP	
R20 R23 R23 R23 R23			RK73GB1J392J RK73GB1J153J RK73GB1J153J RK73GB1J332J RK73GB1J822J	CHIP R 3.9K J 1/16W CHIP R 15K J 1/16W CHIP R 15K J 1/16W CHIP R 3.3K J 1/16W CHIP R 8.2K J 1/16W	EE1TT1 HE2E3 MM1X KP	

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R25			RK73GB1J163J	CHIP R 16K J 1/16W	MP	
R25			RK73GB1J183J	CHIP R 18K J 1/16W	MM1X	
R25			RK73GB1J273J	CHIP R 27K J 1/16W	EE1TT1	
R25			RK73GB1J273J	CHIP R 27K J 1/16W	HE2E3	
R27 ,28			RK73GB1J432J	CHIP R 4.3K J 1/16W	EE1TT1	
R27 ,28			RK73GB1J432J	CHIP R 4.3K J 1/16W	HE2E3	
R27 ,28			RK73GB1J472J	CHIP R 4.7K J 1/16W	KPMM1X	
R30			RK73GB1J561J	CHIP R 560 J 1/16W	MM1	
R31			RK73GB1J473J	CHIP R 47K J 1/16W	MM1	
R32			RK73FB2A272J	CHIP R 2.7K J 1/10W	KPMM1X	
R33 ,34			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R35			RK73GB1J101J	CHIP R 100 J 1/16W	EE1TT1	
R35			RK73GB1J101J	CHIP R 100 J 1/16W	HE2E3	
R36			RK73GB1J102J	CHIP R 1.0K J 1/16W	EE1TT1	
R36			RK73GB1J102J	CHIP R 1.0K J 1/16W	HE2E3	
R37			RK73GB1J392J	CHIP R 3.9K J 1/16W	EE1TT1	
R37			RK73GB1J392J	CHIP R 3.9K J 1/16W	HE2E3	
R38			RK73GB1J102J	CHIP R 1.0K J 1/16W	EE1TT1	
R38			RK73GB1J102J	CHIP R 1.0K J 1/16W	HE2E3	
R39			RK73GB1J103J	CHIP R 10K J 1/16W	EE1TT1	
R39			RK73GB1J103J	CHIP R 10K J 1/16W	HE2E3	
R42			RK73GB1J103J	CHIP R 10K J 1/16W		
R43			RK73GB1J221J	CHIP R 220 J 1/16W		
R44			RD14NB2E271J	RD 270 J 1/4W		
R45 -48			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R49			RK73GB1J103J	CHIP R 10K J 1/16W		
R50			RD14NB2E471J	RD 470 J 1/4W		
R51			RK73GB1J562J	CHIP R 5.6K J 1/16W		
R52			RK73GB1J101J	CHIP R 100 J 1/16W		
R53			RK73GB1J222J	CHIP R 2.2K J 1/16W		
R54			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R55			RK73GB1J333J	CHIP R 33K J 1/16W		
R56 ,57			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R58			RK73FB2A123J	CHIP R 12K J 1/10W		
R59			RK73FB2A122J	CHIP R 1.2K J 1/10W		
R72 ,73			RK73GB1J392J	CHIP R 3.9K J 1/16W		
R79			RK73GB1J332J	CHIP R 3.3K J 1/16W		
R80			RK73FB2A223J	CHIP R 22K J 1/10W	EE1TT1	
R80			RK73FB2A223J	CHIP R 22K J 1/10W	HE2E3	
R81			RS14KB3A820J	FL-PROOF RS 82 J 1W		
R82			RK73GB1J272J	CHIP R 2.7K J 1/16W	EE1TT1	
R82			RK73GB1J272J	CHIP R 2.7K J 1/16W	HE2E3	
R83			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R84			RK73EB2B102J	CHIP R 1.0K J 1/8W		
R85 -87			RK73GB1J105J	CHIP R 1.0M J 1/16W		
R88			RK73GB1J563J	CHIP R 56K J 1/16W		
R89			RK73GB1J333J	CHIP R 33K J 1/16W		
R101			RK73GB1J103J	CHIP R 10K J 1/16W		
R102			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R103			RK73GB1J122J	CHIP R 1.2K J 1/16W		
R104			RK73GB1J152J	CHIP R 1.5K J 1/16W		
R105			RK73GB1J202J	CHIP R 2.0K J 1/16W		
R106			RK73GB1J242J	CHIP R 2.4K J 1/16W		
R108			RK73GB1J682J	CHIP R 6.8K J 1/16W		
R109,110			RK73GB1J133J	CHIP R 13K J 1/16W		

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R111,112			RK73GB1J221J	CHIP R 220 J 1/16W		
R113			RK73GB1J101J	CHIP R 100 J 1/16W		
R120			RK73GB1J103J	CHIP R 10K J 1/16W		
R121			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R122			RK73GB1J152J	CHIP R 1.5K J 1/16W		
R123			RK73GB1J122J	CHIP R 1.2K J 1/16W		
R124			RK73GB1J202J	CHIP R 2.0K J 1/16W		
R125			RK73GB1J242J	CHIP R 2.4K J 1/16W		
R126			RK73GB1J512J	CHIP R 5.1K J 1/16W		
R127			RK73GB1J362J	CHIP R 3.6K J 1/16W		
R132			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R133			RK73GB1J101J	CHIP R 100 J 1/16W		
R134			RK73GB1J912J	CHIP R 9.1K J 1/16W		
R135			RK73GB1J163J	CHIP R 16K J 1/16W		
R136			RK73GB1J473J	CHIP R 47K J 1/16W		
R137			RK73GB1J331J	CHIP R 330 J 1/16W		
R138			RK73GB1J102J	CHIP R 1.0K J 1/16W		
VR1			R32-0037-05	SEMI FIXED VARIABLE RESISTOR		
W651,652			R92-0670-05	CHIP R 0 OHM		
W654-656			R92-0670-05	CHIP R 0 OHM	M1M2	
W654,655			R92-0670-05	CHIP R 0 OHM	K1E1E2	
W654,655			R92-0670-05	CHIP R 0 OHM	X1	
W659			R92-0670-05	CHIP R 0 OHM	K1M1M2	
W659			R92-0670-05	CHIP R 0 OHM	X1	
W659,660			R92-0670-05	CHIP R 0 OHM	E1E2	
W662			R92-0670-05	CHIP R 0 OHM		
W680			R92-0679-05	CHIP R 0 OHM		
W682-685			R92-0679-05	CHIP R 0 OHM	K1M1M2	
W682-685			R92-0679-05	CHIP R 0 OHM	X1	
W684,685			R92-0679-05	CHIP R 0 OHM	E1E2	
S100-116			S70-0031-05	TACT SWITCH		
S117			T99-0602-05	ROTARY ENCODER		
D1			DA204U	DIODE		
D1			MA143A	DIODE		
D1			1SS302	DIODE		
D3			HZS8.2N(B2)	ZENER DIODE		
D3			MTZJ8.2(B)	ZENER DIODE		
D4			HZS5.1N(B2)	ZENER DIODE		
D4			MTZJ5.1(B)	ZENER DIODE		
D8			MA111	DIODE		
D11			MA111	DIODE	EE1TT1	
D11			MA111	DIODE	HE2E3	
D13			MA111	DIODE		
D102			UD25.6B	ZENER DIODE		
D103			UD24.3B	ZENER DIODE		
ED101		*	BL-150NK	FLUORESCENT INDICATOR TUBE		
IC1		*	LA1837	ANALOGUE IC	E3	
IC1			LA1837	ANALOGUE IC	KPEE1T	
IC1			LA1838	ANALOGUE IC	T1HE2	
IC2			LC72131	MOS-IC	MM1X	
Q1			2SC4081(R,S)	TRANSISTOR		
Q1			2SD1819A(Q,R)	TRANSISTOR		

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Q2 Q2 Q3 ,4 Q3 ,4 Q6 ,7			2SA1576A(R,S) 2SB1218A(Q,R) 2SC4081(R,S) 2SD1819A(Q,R) 2SC4081(R,S)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	MM1 MM1 EE1TT1	
Q6 ,7 Q6 ,7 Q6 ,7 Q14 Q14			2SC4081(R,S) 2SD1819A(Q,R) 2SD1819A(Q,R) 2SA1576A(R,S) 2SB1218A(Q,R)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	HE2E3 EE1TT1 HE2E3	
Q100 Q101 Q101			2SD1963 DTA124EUA UN5112	TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR		
A1 A1 A1 A100			W02-2584-05 W02-2584-05 W02-2622-05 W02-2537-05	FM FRONT-END ASSY FM FRONT-END ASSY FM FRONT-END ASSY ELECTRIC CIRCUIT MODULE	EE1TT1 HE2E3 KPM1X	
CONTROL CIRCUIT (X29-2690-XX)						
C1 ,2 C3 ,4 C5 ,6 C7 ,8 C9 ,10			CE04KW1H2R2M CK73GB1H102K CE04KW1C100M CK73GB1H561K CC73GCH1H100D	ELECTRO 2.2UF 50WV CHIP C 1000PF K ELECTRO 10UF 16WV CHIP C 560PF K CHIP C 10PF D		
C11 ,12 C13 ,14 C13 ,14 C13 ,14 C15 ,16			CK73GB1H122K CK73GB1H561K CK73GB1H561K CK73GB1H561K CK73GB1H102K	CHIP C 1200PF K CHIP C 560PF K CHIP C 560PF K CHIP C 560PF K CHIP C 1000PF K	E2E3 MM1XT T1EE1H	
C17 ,18 C17 ,18 C17 ,18 C17 ,18 C19 ,20			CQ93FMG1H104J CQ93FMG1H224J CQ93FMG1H224J CQ93FMG1H224J CQ93FMG1H224J	MYLAR 0.10UF J MYLAR 0.22UF J MYLAR 0.22UF J MYLAR 0.22UF J MYLAR 0.22UF J	KP E2E3 MM1XT T1EE1H E2E3	
C19 ,20 C19 ,20 C21 ,22 C23 ,24 C31			CQ93FMG1H224J CQ93FMG1H224J CK73GB1H103K CC73GCH1H330J CE04HW1E100M	MYLAR 0.22UF J MYLAR 0.22UF J CHIP C 0.010UF K CHIP C 33PF J NP-ELEC 10UF 25WV	MM1XT T1EE1H	
C33 C41 C42 C43 C51 ,52		*	CE04KW1E470M CK73GB1H102K CE04KW1A221M CE04KW1H47M C90-3928-05	ELECTRO 47UF 25WV CHIP C 1000PF K ELECTRO 220UF 10WV ELECTRO 4.7UF 50WV ELECTRO 2200UF 35WV		
C53 ,55 C61 C62 C64 C71			C91-1567-05 CE04KW1V222M CQ93FMG1H104J CK73GB1H102K CE04KW1E332M	FILM 0.1UF J ELECTRO 2200UF 35WV MYLAR 0.10UF J CHIP C 1000PF K ELECTRO 3300UF 25WV		
C72 C75 C78 C79 C80			CQ93FMG1H104J CQ93FMG1H473J CE04DW1V221M CE04KW1H100M CE04KW1E470M	MYLAR 0.10UF J MYLAR 0.047UF J ELECTRO 220UF 35WV ELECTRO 10UF 50WV ELECTRO 47UF 25WV		
C81 ,82			CK73GB1H103K	CHIP C 0.010UF K		

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C90 C91 C92 C93 C93			CK73GB1C473K C91-1488-05 CE04KW1E470M CQ93FMG1H104J CQ93FMG1H104J	CHIP C 0.047UF K MF 6800PF 250VAC ELECTRO 47UF 25WV MYLAR 0.10UF J MYLAR 0.10UF J	MM1 250VAC MM1 EE1HE2 E3	
C93 C93 C94 C95 C95			CQ93FMG1H104J CQ93FMG1H184J CE04KW1H2R2M CE04KW1C332M CE04KW1C332M	MYLAR 0.10UF J MYLAR 0.18UF J ELECTRO 2.2UF 50WV ELECTRO 3300UF 16WV ELECTRO 3300UF 16WV	KPXTT1 MM1 EE1HE2 E3	
C95 C95 C98 C101 C102			CE04KW1C332M CE04KW1E332M CE04KW1E470M CK73GB1H103K CE04KW1H010M	ELECTRO 3300UF 16WV ELECTRO 3300UF 25WV ELECTRO 47UF 25WV CHIP C 0.010UF K ELECTRO 1.0UF 50WV	KPXTT1 MM1	
C103 C104 C105 C106 C109-114			CE04KW0J331M CE04KW1A101M CE04KW1C471M CE04KW1V101M CE04KW1H3R3M	ELECTRO 330UF 6.3WV ELECTRO 100UF 10WV ELECTRO 470UF 16WV ELECTRO 100UF 35WV ELECTRO 3.3UF 50WV		
C115-118 C119,120 C121,122 C123,124 C125,126			CE04KW1C100M CK73GB1C104K CK73FB1C154K CK73FB1E683K CK73GB1A154K	ELECTRO 10UF 16WV CHIP C 0.10UF K CHIP C 0.15UF K CHIP C 0.068UF K CHIP C 0.15UF K		
C127,128 C129,130 C131,132 C133,134 C135,136			CK73GB1C563K CK73GB1H122K CE04KW1H2R2M CC73GCH1H100D CE04KW1H010M	CHIP C 0.056UF K CHIP C 1200PF K ELECTRO 2.2UF 50WV CHIP C 10PF D ELECTRO 1.0UF 50WV		
C137-140 C149 C150 C151 C152			CC73GCH1H221J CC73GCH1H100D CK73GB1C104K CK73GB1H102K CK73GB1C104K	CHIP C 220PF J CHIP C 10PF D CHIP C 0.10UF K CHIP C 1000PF K CHIP C 0.10UF K		
C153 C154 C155 C156 C157,158			CC73GCH1H220J CC73GCH1H180J CK73GB1H103K CK73GB1C104K CE04KW1C100M	CHIP C 22PF J CHIP C 18PF J CHIP C 0.010UF K CHIP C 0.10UF K ELECTRO 10UF 16WV		
C159,160 C161-164 C165,166 C167,168 C169,170			CK73GB1H681K CC73GCH1H221J CE04KW1H3R3M CK73GB1H103K CE04KW1A221M	CHIP C 680PF K CHIP C 220PF J ELECTRO 3.3UF 50WV CHIP C 0.010UF K ELECTRO 220UF 10WV		
C171,172 C173,174 C175 C176 C177			CE04KW1H010M CE04KW1H3R3M CE04KW1A101M CE04KW1E101M CK73GB1H103K	ELECTRO 1.0UF 50WV ELECTRO 3.3UF 50WV ELECTRO 100UF 10WV ELECTRO 100UF 25WV CHIP C 0.010UF K		
C178 C179,180 C181 C182-184 C185			CC73GCH1H080D CK73GB1H472K CK73GB1H103K CE04KW1C100M CK73FF1C105Z	CHIP C 8.0PF D CHIP C 4700PF K CHIP C 0.010UF K ELECTRO 10UF 16WV CHIP C 1.0UF Z		

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PARTS LIST

RXD-M32

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C186			CQ93HP2A103J	MYLAR 0.010UF	J	
C187			CE04KW1C220M	ELECTRO 22UF	16WV	
C205			CK73GB1C104K	CHIP C 0.10UF	K	
C206			CE04KW1A101M	ELECTRO 100UF	10WV	
C211			CK73GB1C104K	CHIP C 0.10UF	K	
C212			CE04KW1A470M	ELECTRO 47UF	10WV	HE2E3
C212			CE04KW1A470M	ELECTRO 47UF	10WV	TT1EE1
C213			CK73GB1H103K	CHIP C 0.010UF	K	HE2E3
C213			CK73GB1H103K	CHIP C 0.010UF	K	TT1EE1
C214			CC73GCH1H220J	CHIP C 22PF	J	HE2E3
C214			CC73GCH1H220J	CHIP C 22PF	J	TT1EE1
C215			CC73GCH1H470J	CHIP C 47PF	J	HE2E3
C215			CC73GCH1H470J	CHIP C 47PF	J	TT1EE1
C216			CC73GCH1H561J	CHIP C 560PF	J	HE2E3
C216			CC73GCH1H561J	CHIP C 560PF	J	TT1EE1
C217			CK73GB1H103K	CHIP C 0.010UF	K	HE2E3
C217			CK73GB1H103K	CHIP C 0.010UF	K	TT1EE1
C218			CC73GCH1H331J	CHIP C 330PF	J	HE2E3
C218			CC73GCH1H331J	CHIP C 330PF	J	TT1EE1
C219			CE04KW1H2R2M	ELECTRO 2.2UF	50WV	HE2E3
C219			CE04KW1H2R2M	ELECTRO 2.2UF	50WV	TT1EE1
C220			CC73GCH1H101J	CHIP C 100PF	J	HE2E3
C220			CC73GCH1H101J	CHIP C 100PF	J	TT1EE1
C222			CE04KW1A101M	ELECTRO 100UF	10WV	
C225,226			CC73GCH1H080D	CHIP C 8.0PF	D	
C231			CE04KW1C471M	ELECTRO 470UF	16WV	
C232			CC73GCH1H470J	CHIP C 47PF	J	
C234			CE04KW1C331M	ELECTRO 330UF	16WV	
C235			CE04KW1E331M	ELECTRO 330UF	25WV	
C243			CC73GCH1H220J	CHIP C 22PF	J	
C245			CK73GB1H103K	CHIP C 0.010UF	K	
C246			CK73GB1H102K	CHIP C 1000PF	K	
C247			CC73GCH1H101J	CHIP C 100PF	J	
C248			CK73GB1H102K	CHIP C 1000PF	K	
CN1			E40-5066-05	PIN ASSY		
CN2			E40-8605-05	PIN ASSY		
CN4			E40-3247-05	PIN ASSY		
CN91			E40-4245-05	PIN ASSY		
CN93			E40-4281-05	PIN ASSY		
CN101			E40-3251-05	PIN ASSY		
CN102			E40-4899-05	FLAT CABLE CONNECTOR		
CN103			E40-4874-05	PIN ASSY		
CN106			E40-3259-05	PIN ASSY		
CN108			E40-3249-05	PIN ASSY		
CN109		*	E40-8601-05	FLAT CABLE CONNECTOR		
CN111		*	E40-3249-05	PIN ASSY		
CN113		*	E40-8606-05	PIN ASSY		
CN114		*	E40-3249-05	PIN ASSY		
CN115,116		*	E40-8634-05	FLAT CABLE CONNECTOR		
CN117		*	E40-8603-05	FLAT CABLE CONNECTOR		
CN118		*	E40-8635-05	FLAT CABLE CONNECTOR		
CN119		*	E40-8613-05	FLAT CABLE CONNECTOR		
J1			E70-0053-05	LOCK TERMINAL BOARD		
J101			E63-0095-05	PIN JACK		

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⚠ F1			F05-8013-05	FUSE (SEMKO) (250V T800MAL)	E1HE2	
⚠ F1			F05-8013-05	FUSE (SEMKO) (250V T800MAL)	E3MM1	
⚠ F1			F05-8013-05	FUSE (SEMKO) (250V T800MAL)	XTT1E	
⚠ F1			F50-0068-05	FUSE(5X20)	KP	
⚠ F2			F05-8013-05	FUSE (SEMKO) (250V T800MAL)	MM1	
CN95,96			J13-0075-05	FUSE CLIP		
CN97,98			J13-0075-05	FUSE CLIP		
E100			J11-0809-05	WIRE CLAMPER		
L101,102			L40-1035-29	SMALL FIXED INDUCTOR(10MH, J)		
L103			L32-0592-05	BIAS OSCILATING COIL		
L104			L40-1001-17	SMALL FIXED INDUCTOR(10UH,K)		
L105,106			L92-0089-05	CHIP FERRITE		
T91			L07-2758-05	POWER TRANSFORMER	KPMM1	
⚠ T91		*	L07-2897-08	POWER TRANSFORMER	E1E2E3	
⚠ T91		*	L07-2897-08	POWER TRANSFORMER	XTT1HE	
X101			L78-0294-05	RESONATOR (10.000M)		
X102			L77-2173-05	CRYSTAL RESONATOR(32.768KHZ)	HE2E3	
X103			L77-2002-05	CRYSTAL RESONATOR(4.332MHZ)	TT1EE1	
X103			L77-2002-05	CRYSTAL RESONATOR(4.332MHZ)		
R1 ,2			RK73GB1J222J	CHIP R 2.2K	J 1/16W	
R3 ,4			RK73GB1J102J	CHIP R 1.0K	J 1/16W	
R5 ,6			RK73GB1J222J	CHIP R 2.2K	J 1/16W	
R7 ,8			RK73GB1J203J	CHIP R 20K	J 1/16W	
R9 ,10			RK73GB1J223J	CHIP R 22K	J 1/16W	
R11 ,12			RK73GB1J102J	CHIP R 1.0K	J 1/16W	
R13 ,14			RK73GB1J203J	CHIP R 20K	J 1/16W	
R15 ,16			RK73GB1J391J	CHIP R 390	J 1/16W	
R21 ,22			RS14KB3DR22J	FL-PROOF RS 0.22	J 2W	
R23 ,24			RK73GB1J102J	CHIP R 1.0K	J 1/16W	
R25 ,26			RK73GB1J103J	CHIP R 10K	J 1/16W	
R27 ,28			RK73GB1J472J	CHIP R 4.7K	J 1/16W	
R29 ,30			RK73GB1J473J	CHIP R 47K	J 1/16W	
R31 ,32			RS14KB3A2R7J	FL-PROOF RS 2.7	J 1W	
⚠ R35			RS14KB3A101J	FL-PROOF RS 100	J 1W	
R36			RK73GB1J332J	CHIP R 3.3K	J 1/16W	
R37			RK73GB1J104J	CHIP R 100K	J 1/16W	
R41			RK73GB1J561J	CHIP R 560	J 1/16W	
R42			RK73GB1J122J	CHIP R 1.2K	J 1/16W	
R43			RK73GB1J473J	CHIP R 47K	J 1/16W	
R44			RK73GB1J103J	CHIP R 10K	J 1/16W	
R45			RK73GB1J102J	CHIP R 1.0K	J 1/16W	
R46			RK73GB1J472J	CHIP R 4.7K	J 1/16W	
R47			RK73GB1J331J	CHIP R 330	J 1/16W	
R48			RK73GB1J473J	CHIP R 47K	J 1/16W	
R50			RS14KB3A152J	FL-PROOF RS 1.5K	J 1W	
R51 -53			RK73GB1J473J	CHIP R 47K	J 1/16W	
R54			RK73GB1J332J	CHIP R 3.3K	J 1/16W	
R55			RK73GB1J472J	CHIP R 4.7K	J 1/16W	
R56			RK73GB1J103J	CHIP R 10K	J 1/16W	
R57			RK73GB1J153J	CHIP R 15K	J 1/16W	
R59 ,60			RS14KB3A331J	FL-PROOF RS 330	J 1W	
R63			RK73GB1J102J	CHIP R 1.0K	J 1/16W	
R64			RK73GB1J104J	CHIP R 100K	J 1/16W	
⚠ R66			RD14NB2E1R0J	RD 1	J 1/4W	

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R91			RK73GB1J104J	CHIP R 100K J 1/16W		
R92			RK73GB1J332J	CHIP R 3.3K J 1/16W		
R94			RK73GB1J105J	CHIP R 1.0M J 1/16W		
R95			RK73GB1J104J	CHIP R 100K J 1/16W		
R96			RK73GB1J101J	CHIP R 100 J 1/16W		
Δ R98			RS14KB3A101J	FL-PROOF RS 100 J 1W	EE1HE2	
Δ R98			RS14KB3A101J	FL-PROOF RS 100 J 1W	E3	
Δ R98			RS14KB3A101J	FL-PROOF RS 100 J 1W	KPXTT1	
Δ R98			RS14KB3A560J	FL-PROOF RS 56 J 1W	MM1	
Δ R100			R92-1844-05	CARBON 3.3M J 1/2W	KP	
R101			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R102			RK73GB1J103J	CHIP R 10K J 1/16W		
R103			RK73GB1J104J	CHIP R 100K J 1/16W		
R104			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R105			RK73GB1J103J	CHIP R 10K J 1/16W		
Δ R106			RK73GB1J2R2J	CHIP R 2.2 J 1/16W		
R107,108			RK73GB1J682J	CHIP R 6.8K J 1/16W		
R109,110			RK73GB1J103J	CHIP R 10K J 1/16W		
R111,112			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R113,114			RK73GB1J104J	CHIP R 100K J 1/16W		
R127			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R129			RK73GB1J222J	CHIP R 2.2K J 1/16W		
R130			RK73GB1J133J	CHIP R 13K J 1/16W		
R131			RK73GB1J104J	CHIP R 100K J 1/16W		
R132			RK73FB2A475J	CHIP R 4.7M J 1/10W		
R133,134			RK73GB1J103J	CHIP R 10K J 1/16W		
R135,136			RK73GB1J164J	CHIP R 160K J 1/16W		
R137-140			RK73GB1J103J	CHIP R 10K J 1/16W		
R141,142			RK73GB1J334J	CHIP R 330K J 1/16W		
R143,144			RK73GB1J153J	CHIP R 15K J 1/16W		
R145,146			RK73GB1J223J	CHIP R 22K J 1/16W		
R147,148		*	RK73GB1J200J	CHIP R 20 J 1/16W		
R149,150			RK73GB1J222J	CHIP R 2.2K J 1/16W		
R151,152			RK73GB1J272J	CHIP R 2.7K J 1/16W		
R153,154			RK73GB1J682J	CHIP R 6.8K J 1/16W		
R155			RK73GB1J912J	CHIP R 9.1K J 1/16W		
R156			RK73GB1J392J	CHIP R 3.9K J 1/16W		
R157			RK73GB1J223J	CHIP R 22K J 1/16W		
R159			RK73GB1J102J	CHIP R 1.0K J 1/16W		
Δ R160			RD14GB2E100J	FL-PROOF RD 10 J 1/4W		
Δ R163,164			RK73GB1J273J	CHIP R 27K J 1/16W		
R165			RD14GB2E100J	FL-PROOF RD 10 J 1/4W		
R166			RK73GB1J103J	CHIP R 10K J 1/16W		
R167			RK73GB1J182J	CHIP R 1.8K J 1/16W		
R168			RK73GB1J102J	CHIP R 1.0K J 1/16W		
Δ R169			RK73GB1J103J	CHIP R 10K J 1/16W		
R170			RD14GB2E100J	FL-PROOF RD 10 J 1/4W		
R171-175			RK73GB1J101J	CHIP R 100 J 1/16W		
R176-180			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R181			RK73GB1J562J	CHIP R 5.6K J 1/16W		
R182			RK73GB1J473J	CHIP R 47K J 1/16W		
R183			RK73GB1J272J	CHIP R 2.7K J 1/16W		
R184			RK73GB1J473J	CHIP R 47K J 1/16W		
R185			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R186			RK73GB1J102J	CHIP R 1.0K J 1/16W		

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R199			RK73GB1J473J	CHIP R 47K J 1/16W		
R204			RK73GB1J104J	CHIP R 100K J 1/16W		
R208			RK73GB1J363J	CHIP R 36K J 1/16W		
R209			RK73GB1J473J	CHIP R 47K J 1/16W		
R211			RK73GB1J100J	CHIP R 10 J 1/16W		
R213			RK73GB1J222J	CHIP R 2.2K J 1/16W	HE2E3	
R213			RK73GB1J222J	CHIP R 2.2K J 1/16W	TT1EE1	
R214			RK73GB1J101J	CHIP R 100 J 1/16W	HE2E3	
R214			RK73GB1J101J	CHIP R 100 J 1/16W	TT1EE1	
R215			RK73GB1J473J	CHIP R 47K J 1/16W	HE2E3	
R215			RK73GB1J473J	CHIP R 47K J 1/16W	TT1EE1	
R216			RK73GB1J101J	CHIP R 100 J 1/16W	HE2E3	
R216			RK73GB1J101J	CHIP R 100 J 1/16W	TT1EE1	
R218,219			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R220			RK73GB1J473J	CHIP R 47K J 1/16W		
R221			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R222,223			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R224			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R225,226			RK73GB1J473J	CHIP R 47K J 1/16W	HE2E3	
R225,226			RK73GB1J473J	CHIP R 47K J 1/16W	TT1EE1	
R228			RK73GB1J121J	CHIP R 120 J 1/16W		
R229-231			RK73GB1J101J	CHIP R 100 J 1/16W		
R232,233			RK73GB1J100J	CHIP R 10 J 1/16W		
R234,235			RK73GB1J101J	CHIP R 100 J 1/16W		
R237			RK73GB1J101J	CHIP R 100 J 1/16W		
R238			RK73GB1J561J	CHIP R 560 J 1/16W		
R239			RK73GB1J101J	CHIP R 100 J 1/16W		
R245			RK73GB1J101J	CHIP R 100 J 1/16W		
R247-258			RK73GB1J101J	CHIP R 100 J 1/16W		
R259			RK73GB1J332J	CHIP R 3.3K J 1/16W		
R260			RK73GB1J101J	CHIP R 100 J 1/16W		
R261			RK73GB1J103J	CHIP R 10K J 1/16W		
R262			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R263			RK73GB1J2R2J	CHIP R 2.2 J 1/16W		
R264			RK73GB1J101J	CHIP R 100 J 1/16W		
R266			RS14KB3A1R0J	FL-PROOF RS 1.0 J 1W		
R267			RK73GB1J473J	CHIP R 47K J 1/16W		
R268-274			RK73GB1J101J	CHIP R 100 J 1/16W		
R276-279			RK73GB1J101J	CHIP R 100 J 1/16W		
R280-282			RK73GB1J473J	CHIP R 47K J 1/16W		
R291			RK73GB1J104J	CHIP R 100K J 1/16W		
R292			RK73GB1J104J	CHIP R 100K J 1/16W	MM1	
R292			RK73GB1J123J	CHIP R 12K J 1/16W	EE1TT1	
R292			RK73GB1J123J	CHIP R 12K J 1/16W	HE2E3	
R292			RK73GB1J224J	CHIP R 220K J 1/16W	KP	
R292			RK73GB1J473J	CHIP R 47K J 1/16W	X	
R294-296			RK73GB1J103J	CHIP R 10K J 1/16W		
R297,298			RK73GB1J153J	CHIP R 15K J 1/16W		
R299			RK73GB1J101J	CHIP R 100 J 1/16W		
Δ R300			RD14GB2E5R6J	FL-PROOF RD 5.6 J 1/4W		
R301,302			RK73GB1J123J	CHIP R 12K J 1/16W		
R303			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R305,306			RK73GB1J133J	CHIP R 13K J 1/16W		
R307,308			RK73GB1J182J	CHIP R 1.8K J 1/16W		
VR101,102			R32-0041-05	SEMI FIXED VARIABLE RESISTOR		

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PARTS LIST

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
W502-504 W508 W508-510 W508-510 W510			R92-0670-05 R92-0670-05 R92-0670-05 R92-0670-05 R92-0670-05	CHIP R 0 OHM CHIP R 0 OHM CHIP R 0 OHM CHIP R 0 OHM CHIP R 0 OHM	E1E2 K1M1M2 X1X2 E1E2	
W512-517 W518,519 W518,519 W519 W520			R92-0679-05 R92-0670-05 R92-0670-05 R92-0670-05 R92-0679-05	CHIP R 0 OHM CHIP R 0 OHM CHIP R 0 OHM CHIP R 0 OHM CHIP R 0 OHM	K1M1M2 X1X2 E1E2 M1X1E1	
W522,523			R92-0679-05	CHIP R 0 OHM		
K1 K91 S91			S76-0076-05 S76-0099-05 S62-0001-05	MAGNETIC RELAY MAGNETIC RELAY SLIDE SWITCH	MM1	
D1 D2 D3 D4 D4			D3SBA20F03 D2SBA20F03 D4SBL20UF03 MTZJ3.9(B) RD3.9ES(B2)	DIODE DIODE DIODE ZENER DIODE ZENER DIODE		
D5 D5 D6 ,7 D8 D8			MTZJ5.1(B) RD5.1ES(B2) MA111 HSS104A 1SS133	ZENER DIODE ZENER DIODE DIODE DIODE DIODE		
D9 ,10 D13 -16 D21 D21 D22			MA111 MA111 MTZJ10(B) RD10ES(B2) MTZJ6.8(B)	DIODE DIODE ZENER DIODE ZENER DIODE ZENER DIODE		
D22 D23 D23 D24 D24			RD6.8ES(B2) MTZJ10(B) RD10ES(B2) MTZJ8.2(B) RD8.2ES(B2)	ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE		
D43 D43 D44 D90 D91		*	MTZJ9.1(B) RD9.1ES(B2) DSK10B-AT MA111 S1ZB20(4072)	ZENER DIODE ZENER DIODE DIODE DIODE DIODE	MM1	
D92 -94 D95 ,96 D95 ,96 D97 ,98 D99			MA111 MA111 MA111 MA111 MA111	DIODE DIODE DIODE DIODE DIODE	HE2E3 KPXEE1 MM1	
D101 D102 D102 D103 D103			1SS402 HSS104A 1SS133 MTZJ5.6(B) RD5.6ES(B2)	DIODE DIODE DIODE ZENER DIODE ZENER DIODE		
D105 D105 D106,107 D106,107 D111			MTZJ5.6(B) RD5.6ES(B2) HSS104A 1SS133 HSS104A	ZENER DIODE ZENER DIODE DIODE DIODE DIODE		

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D111 D115 D116 D116 IC1		*	1SS133 MA111 MTZJ5.6(B) RD5.6ES(B2) LM4766T	DIODE DIODE ZENER DIODE ZENER DIODE ANALOGUE IC		
IC2 IC91 IC92 IC101 IC103		*	TA7812S XC62HR5102P NJM2930F05 S-80840ANY TA8409S	ANALOGUE IC ANALOGUE IC ANALOGUE IC ANALOGUE IC MOS-IC	MM1	
IC104 IC105 IC106 IC107 IC111		*	M30622MA-1A5FP M62498AFP HA12219NT BA3126N TA8409S	MI-COM IC ANALOGUE IC ANALOGUE IC ANALOGUE IC MOS-IC		
IC112 IC114 IC114 Q1 ,2 Q3 -5		*	L88M33T SAA6579T/R SAA6579T/R 2SC2878(B) 2SC2362(G,H)	ANALOGUE IC ANALOGUE IC ANALOGUE IC TRANSISTOR TRANSISTOR	EE1TT1 HE2E3	
Q7 Q8 Q9 Q9 Q10		*	2SA933AS(Q,R) 2SA1016(G,H) 2SC4081(R,S) 2SC4116(Y,GR) 2SD2012	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTER		
Q10 Q11 ,12 Q13 Q21 Q91		*	2SD2061 2SC2362(G,H) 2SA1016(G,H) 2SB1640 2SC2362(G,H)	TRANSISTER TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q92 Q101 Q101 Q102 Q103		*	2SA1016(G,H) 2SC2458(Y,GR) 2SC2785(F,E) 2SC2003(L,K) 2SB764(E,F)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q104 Q105,106 Q105,106 Q107 Q107			2SA1286-T11 DTC124ESA UN4212 2SC2458(Y,GR) 2SC2785(F,E)	TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR		
Q108 Q108 Q109 Q110 Q110			2SC4081(R,S) 2SC4116(Y,GR) 2SD863(E,F) DTA124ESA UN4112	TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR		
Q111,112 Q111,112 Q113 Q113 Q114			DTC124ESA UN4212 DTA124ESA UN4112 DTC124ESA	DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR		
Q114 Q118 Q119 Q119 Q120			UN4212 2SA1286-T11 DTC124ESA UN4212 2SC3246	DIGITAL TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR		

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
A101			W02-1114-15	OSCILLATING MODULE		
CD PLAYER UNIT (X32-3810-01)						
C1 ,2			C92-0084-05	CHIP C	100UF	4WV
C3			CC73GCH1H220J	CHIP C	22PF	J
C5			C92-0084-05	CHIP C	100UF	4WV
C6			C92-0044-05	CHIP-ELE	47UF	10WV
C8			CK73FB1H563K	CHIP C	0.056UF	K
C9			C92-0085-05	CHIP C	220UF	4WV
C10			CC73GCH1H471J	CHIP C	470PF	J
C11			CK73FB1H223K	CHIP C	0.022UF	K
C12			CK73GB1H221K	CHIP C	220PF	K
C13			CK73FB1C474K	CHIP C	0.47UF	K
C14			CK73GB1H332K	CHIP C	3300PF	K
C15			CK73GB1H103K	CHIP C	0.010UF	K
C16			CK73GB1C473K	CHIP C	0.047UF	K
C17			CK73GB1H152K	CHIP C	1500PF	K
C18 ,19			CC73GCH1H150J	CHIP C	15PF	J
C20			CK73GB1H103K	CHIP C	0.010UF	K
C21 ,22			CC73FCH1H681J	CHIP C	680PF	J
C23 ,24			CC73GCH1H101J	CHIP C	100PF	J
C29			CK73GB1H221K	CHIP C	220PF	K
C30			CK73GB1H103K	CHIP C	0.010UF	K
C31			C92-0095-05	CHIP C	330UF	6.3WV
C32			CC73FSL1H101J	CHIP C	100PF	J
C33			CK73GB1H102K	CHIP C	1000PF	K
C34			CK73GB1C104K	CHIP C	0.10UF	K
C35			C92-0084-05	CHIP C	100UF	4WV
C36			CK73GB1H103K	CHIP C	0.010UF	K
C37			CC73GCH1H101J	CHIP C	100PF	J
C38			CK73GB1H102K	CHIP C	1000PF	K
CN1		*	E40-9963-05	FLAT CABLE CONNECTOR		
CN2			E40-8600-05	FLAT CABLE CONNECTOR		
CN3			E40-3248-05	PIN ASSY		
L1 ,2			L40-1001-31	SMALL FIXED INDUCTOR (10UH,K)		
L4			L40-1001-31	SMALL FIXED INDUCTOR (10UH,K)		
L5			L92-0308-05	FERRITE CORE		
X1		*	L77-2295-05	CRYSTAL RESONATOR (33.8668MHz)		
R1			RK73GB1J224J	CHIP R	220K	J 1/16W
R6			RK73GB1J224J	CHIP R	220K	J 1/16W
R7			RK73GB1J100J	CHIP R	10	J 1/16W
R8 ,9			RK73GB1J273J	CHIP R	27K	J 1/16W
R10			RK73GB1J622J	CHIP R	6.2K	J 1/16W
R11 ,12			RK73GB1J101J	CHIP R	100	J 1/16W
R13 ,14			RK73GB1J103J	CHIP R	10K	J 1/16W
R15			RK73GB1J153J	CHIP R	15K	J 1/16W
R16			RK73GB1J273J	CHIP R	27K	J 1/16W
R17			RK73GB1J474J	CHIP R	470K	J 1/16W
R18			RK73GB1J364J	CHIP R	360K	J 1/16W
R19			RK73GB1J102J	CHIP R	1.0K	J 1/16W
R20			RK73GB1J472J	CHIP R	4.7K	J 1/16W
R21			RK73GB1J182J	CHIP R	1.8K	J 1/16W
R23			RK73GB1J154J	CHIP R	150K	J 1/16W
R25			RK73GB1J225J	CHIP R	2.2M	J 1/16W

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R26 ,27			RK73GB1J153J	CHIP R	15K	J 1/16W
R28			RK73GB1J104J	CHIP R	100K	J 1/16W
R29			RK73GB1J333J	CHIP R	33K	J 1/16W
R30			RK73GB1J104J	CHIP R	100K	J 1/16W
R31			RK73GB1J105J	CHIP R	1.0M	J 1/16W
R32			RK73GB1J103J	CHIP R	10K	J 1/16W
R33 ,34			RK73GB1J332J	CHIP R	3.3K	J 1/16W
R35			RK73GB1J472J	CHIP R	4.7K	J 1/16W
R36			RK73GB1J511J	CHIP R	510	J 1/16W
R40			RK73GB1J471J	CHIP R	470	J 1/16W
R41 ,42			RK73GB1J105J	CHIP R	1.0M	J 1/16W
R43 -48			RK73GB1J273J	CHIP R	27K	J 1/16W
R49			RK73GB1J100J	CHIP R	10	J 1/16W
R50			RK73GB1J473J	CHIP R	47K	J 1/16W
R51			RK73GB1J101J	CHIP R	100	J 1/16W
R52			RK73GB1J221J	CHIP R	220	J 1/16W
R53			RK73GB1J101J	CHIP R	100	J 1/16W
R54 -59			RK73GB1J221J	CHIP R	220	J 1/16W
R60			RK73GB1J101J	CHIP R	100	J 1/16W
R61 ,62			RK73GB1J2R2J	CHIP R	2.2	J 1/16W
R63			RK73GB1J473J	CHIP R	47K	J 1/16W
R65 ,66			RK73GB1J104J	CHIP R	100K	J 1/16W
R67 ,68			RK73GB1J101J	CHIP R	100	J 1/16W
VR1			R32-0018-05	SEMI FIXED VARIABLE RESISTOR		
D1 ,2			MA111	DIODE		
IC1			CXA1821M	ANALOGUE IC		
IC2		*	BA5974FP	ANALOGUE IC		
IC3		*	CXD3017Q	MOS-IC		
Q1			2SA1576A(R,S)	TRANSISTOR		
Q4 -6		*	2SK1580	FET		
Q4 -6			2SK1958	FET		
CD MECHANISM (D40-1571-05)						
1	2B		A10-3325-08	CHASSIS		
3	2A		D10-3695-08	SHAFT(TABLE GUIDE)		
5	3A		D10-3696-08	SLED SHAFT		
6	1A		D12-0156-08	CAM		
7	1A		D13-1793-08	GEAR (P)		
8	1A		D13-1794-08	GEAR (C)		
9	1A		D13-1795-08	PULLEY (S)		
10	2A		D13-1796-08	GEAR (A)(S)		
11	3A		D13-1797-08	GEAR (B)(RP)		
12	1A		D16-0713-08	BELT		
13	2A		D23-0328-08	BEARING		
15	2B		E40-8051-08	PIN CONNECTOR (PC BORD)5P		
20	3A		G01-3969-08	SPRING (S) COMPRESSION		
25	3A		J02-1179-08	PUBBER VIBRTION		
26	3A		J02-1180-08	PUBBER VIBRTION		
27	1A		J19-5768-08	HOLDER (MG)(K) ASSY		
28	2A		J19-5769-08	HOLDER (BU) ASSY		
29	2B		J70-0995-08	PC BORD LOADING		
30	3A		J90-0846-08	RING (LO)(S) CENTER		
31	2A		J99-0592-08	TABLE DISK		

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AB	3A		N09-3345-08	SCREW (2.6X16)		
AF	2A		N87-3010-46	SCREW TAPPING (3X10)		
40	2B		S74-0075-08	SWITCH LEAF		
DM	3A		T42-0907-08	MOTOR CHASSIS ASSY(MB)		
FM	3A		T42-0875-08	MOTOR GEAR ASSY(MB)		
LM	2B		T42-0873-08	MOTOR ASSY LOADING		
PU	3B		T25-0061-08	PICKUP ASSY KSS-213C(R)		

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SPECIFICATIONS

Main unit

[Amplifier section]

(For U.K. and Europe)

Effective output power during STEREO operation

1 kHz, 10 % T.H.D., at 6 Ω 20 W + 20 W

Rated output power during STEREO operation

1 kHz, 0.7 % T.H.D., at 6 Ω 15 W + 15 W

(For U.S.A. and Canada)

Rated output power during STEREO operation

14 watts per channel minimum RMS, both channels driven, at 6 Ω from 90 Hz to 20 kHz with no more than 0.9 % total harmonic distortion. (FTC)

(For other countries)

Rated output power during STEREO operation

1 kHz, 10 % T.H.D., at 6 Ω 20 W + 20 W

Frequency response

AUX 50 Hz~50 kHz (0 dB ~ -3dB)

[Tuner section]

FM tuner section

Tuning frequency range 87.5 MHz ~ 108 MHz

MW (AM) tuner section

Tuning frequency range

(For U.S.A. and Canada)

..... 530 kHz ~ 1700 kHz

(For U.K., Europe and Australia)

..... 531 kHz ~ 1,602 kHz

(For other countries)

9 kHz step 531 kHz ~ 1,602 kHz

10 kHz step 530 kHz ~ 1,610 kHz

[CD player section]

Laser Semiconductor laser

D/A Conversion 1 Bit

Wow and flutter Less than unmeasurable limit

[Cassette deck section]

Track 4-track, 2-channel stereo

Recording system AC bias system
(Frequency: 65 kHz)

Heads

Playback / recording head 1

Erasing head 1

Motors 1

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

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

[General]

Power consumption 60 W

Dimensions

W : 180 mm

H : 239 mm

D : 305 mm

Weight (net) 5.4 kg

Speakers

Enclosure Book shelf type, magnetically shielded

Speaker configuration

Woofer 100 mm, cone type

Tweeter 50 mm, cone type

Impedance 6 Ω

Maximum input level 30 W

Dimensions

W : 150 mm

H : 234 mm

D : 197 mm

Weight (net) 2.4 kg(1 piece)



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

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

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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