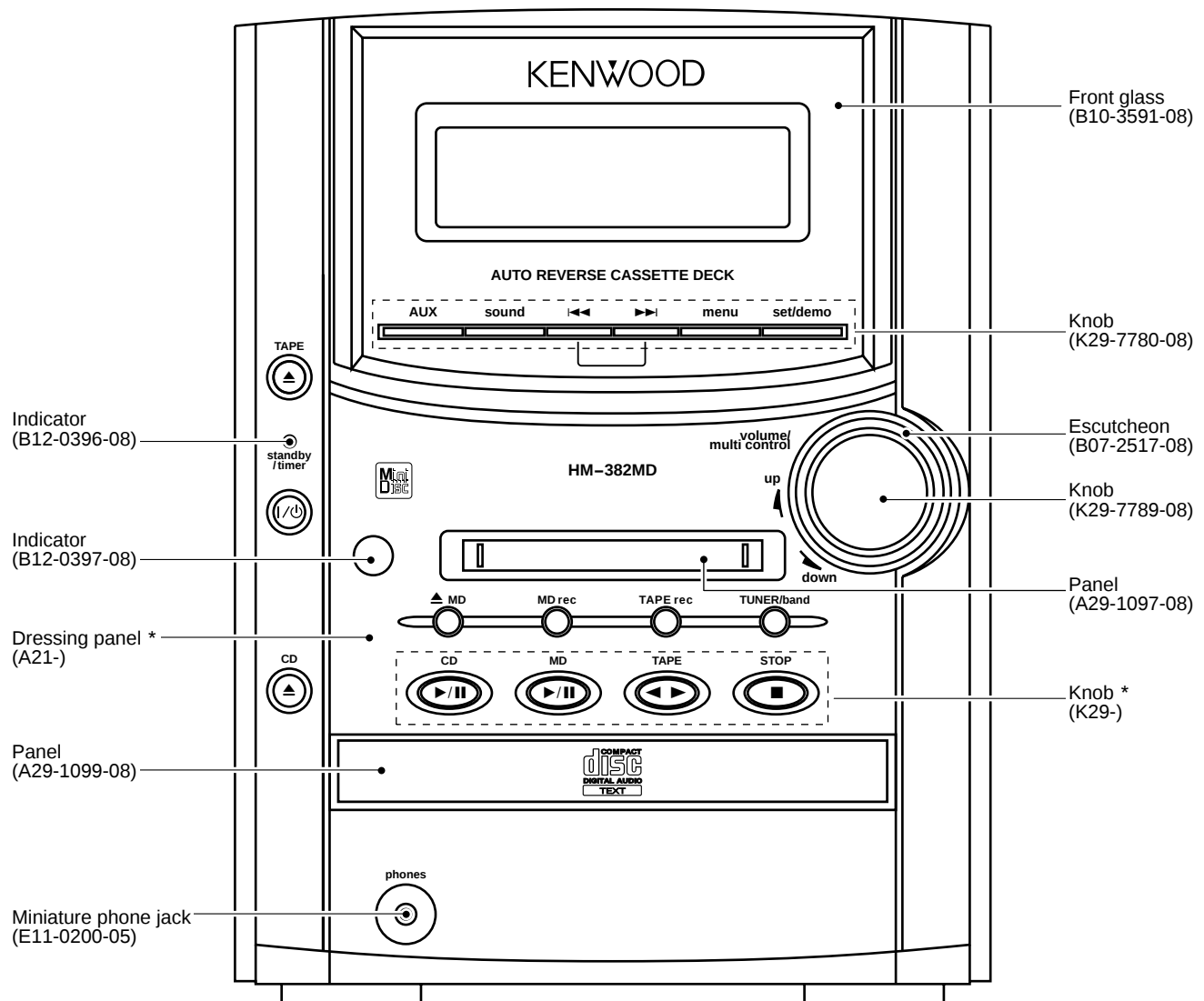


RXD-M32MD

SERVICE MANUAL

(HM-382MD)



* Refer to parts list on page 46.

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**



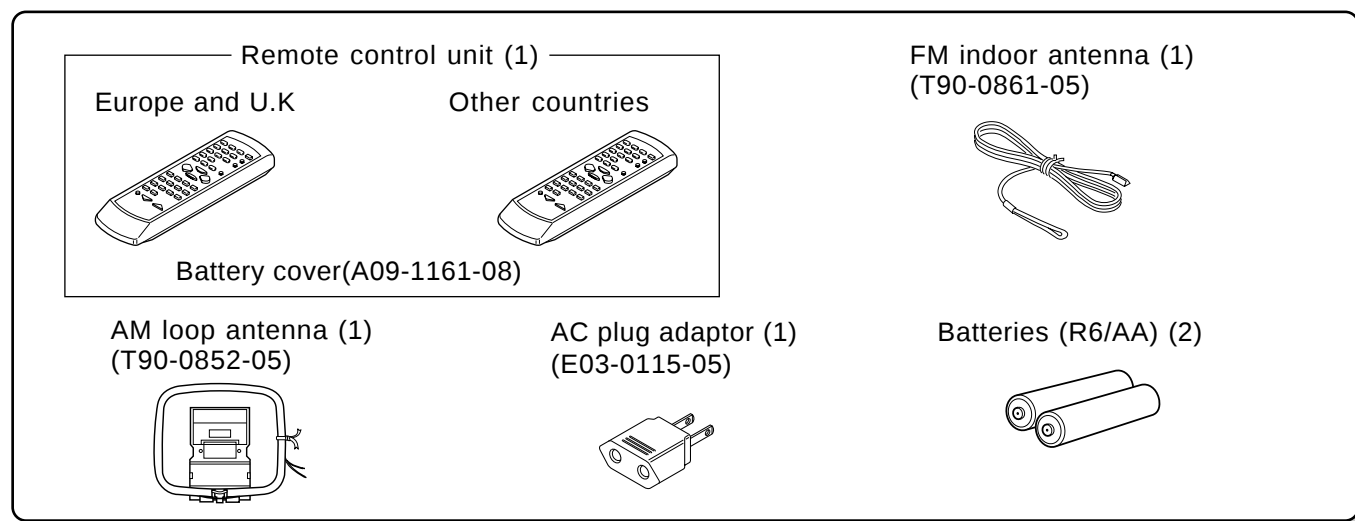
RXD-M32MD

CONTENTS / ACCESSORIES / CAUTIONS

Contents

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Accessories



System configuration

SYSTEM	MAIN UNIT	DESTINATION	SPEAKER	COLOR
HM-382MD-L	RXD-M32MD-L	HMX(L)	LS-M32-L	BLUE
HM-382MD-S	RXD-M32MD-S	ETHM(S)	LS-M32-S	SILVER
HM-382MD-Y	RXD-M32MD-Y	M1(Y)	LS-M32-Y	YELLOW
HM-382MD-LS	RXD-M32MD-LS	HMX(LS)	LS-M32-LS	SKY • BLUE

Remocon configuration

REMOTE CONTROLLER	MODEL NAME	MODEL	DESTINATIONS	COLOR
A70-1375-08	RC-M0100	RXD-M32MD-S	M(S)	WHITE
A70-1376-08	RC-M0100E	RXD-M32MD-S/L	THE	WHITE
A70-1393-08	RC-M0100	RXD-M32MD- Y	M1(Y)	YELLOW
A70-1416-08	RC-M0100	RXD-M32MD- L	MX(L, LS)	BLUE

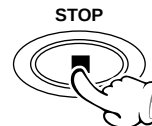
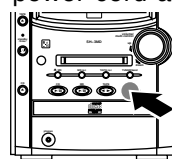
Cautions

Operation to reset

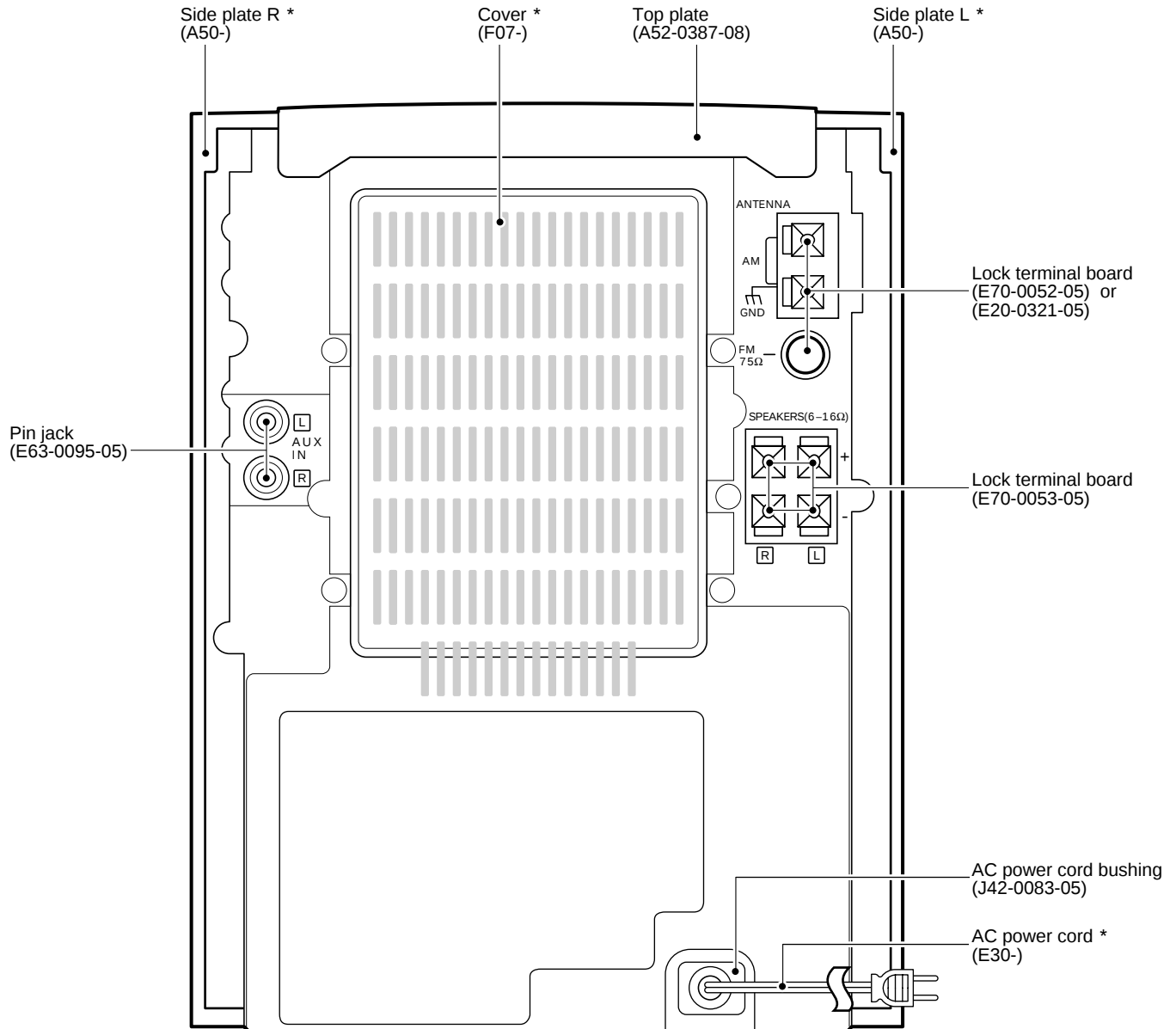
The microcomputer may fall into malfunction (impossibility to operate, erroneous display, etc.) when the power cord is unplugged while unit is ON or due to an external factor. In this case, execute the following procedure to reset the microcomputer and return it to normal condition.

- 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

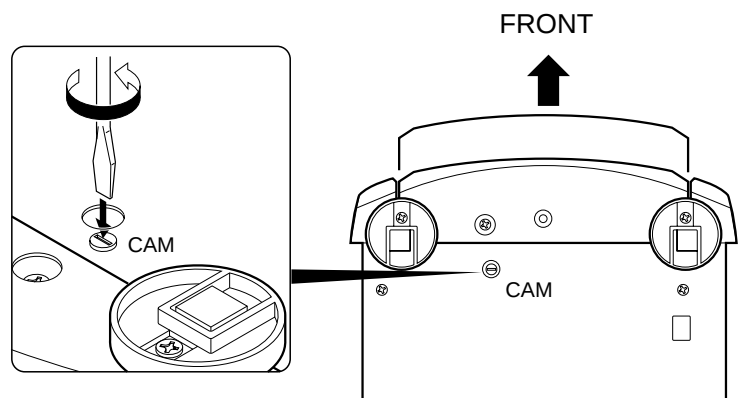


* Refer to parts list on page 46.

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.



RXD-M32MD

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.

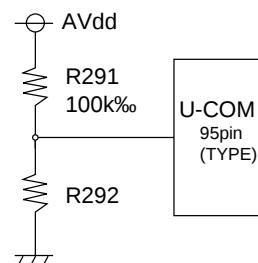
2. Destination List of Tuner

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.

RXD-M32MD

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

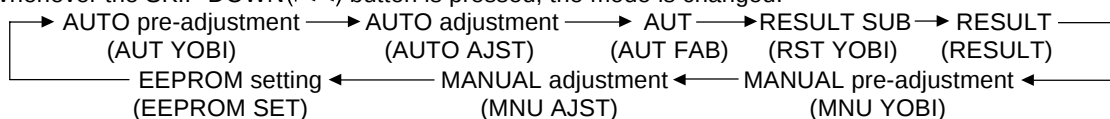
2. Test Mode

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.	[*** : _ _ _ _ _]
Step 4	Adjustment value output Press the MD PLAY button. Press the MD STOP button.	STEP 5 STEP 2	[COMPLETE]
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

5. RESULT mode (final adjustment)

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

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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 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. 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 ○ ○ ○ ○ e ○ ○]
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 : _ △ △ _ _ _]
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 : △ △ △ ○ ○ ○]
Step 6	Press once the SKIP DOWN(◀◀) button.	Tracking ATT (F signal) setting	[P F G : △ △ △ ○ ○ ○]
Step 7	Press once the SKIP DOWN(◀◀) button.	Indication of tracking EFMIO measurement	[P M I : △ △ △ _ _ _]
Step 8	Press once the SKIP DOWN(◀◀) button.	Focus ATT (A signal) setting	[H A G : △ △ △ ○ ○ ○]
Step 9	Press once the SKIP DOWN(◀◀) button.	Focus ATT (B signal) setting	[H B G : △ △ △ ○ ○ ○]

- 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 ○ ○ ○ ○ e ○ ○]
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 : _ △ △ _ _ _]
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 : △ △ △ ○ ○ ○]
Step 6	Press once the SKIP DOWN(◀◀) button.	Tracking ATT (F signal) setting	[P F G : △ △ △ ○ ○ ○]
Step 7	Press once the SKIP DOWN(◀◀) button.	Indication of tracking EFMIO measurement (pit section)	[P M I : △ △ △ _ _ _]
Step 8	Press once the SKIP DOWN(◀◀) button.	Focus ATT (A signal) setting	[L A g : △ △ △ ○ ○ ○]
Step 9	Press once the SKIP DOWN(◀◀) button.	Focus ATT (B signal) setting	[L B g : △ △ △ ○ ○ ○]
Step 10	Press once the SKIP DOWN(◀◀) button.	Outside periphery move → Track cross setting	[G C G : △ △ △ ○ ○ ○]
Step 11	Press once the SKIP DOWN(◀◀) button.	Tracking ATT (E signal) setting	[G E G : △ △ △ ○ ○ ○]
Step 12	Press once the SKIP DOWN(◀◀) button.	Tracking ATT (F signal) setting	[G F G : △ △ △ ○ ○ ○]
Step 13	Press once the SKIP DOWN(◀◀) button.	Indication of tracking EFMIO measurement (groove section)	[G M I : △ △ △ _ _ _]
Step 14	Press once the SKIP DOWN(◀◀) button.	Focus ATT (A signal) setting	[L A G : △ △ △ ○ ○ ○]
Step 15	Press once the SKIP DOWN(◀◀) button.	Focus ATT (B signal) setting	[L B G : △ △ △ ○ ○ ○]

- 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 ○ ○ ○ ○ e ○ ○]
Step 2	Press once the SOUND button.		[T E S T _ P L A Y _] ↓ [a □ □ □ c ○ ○ ○ ○]
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.)
- □ □ □ □ : Adress, ∇ ∇ : 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

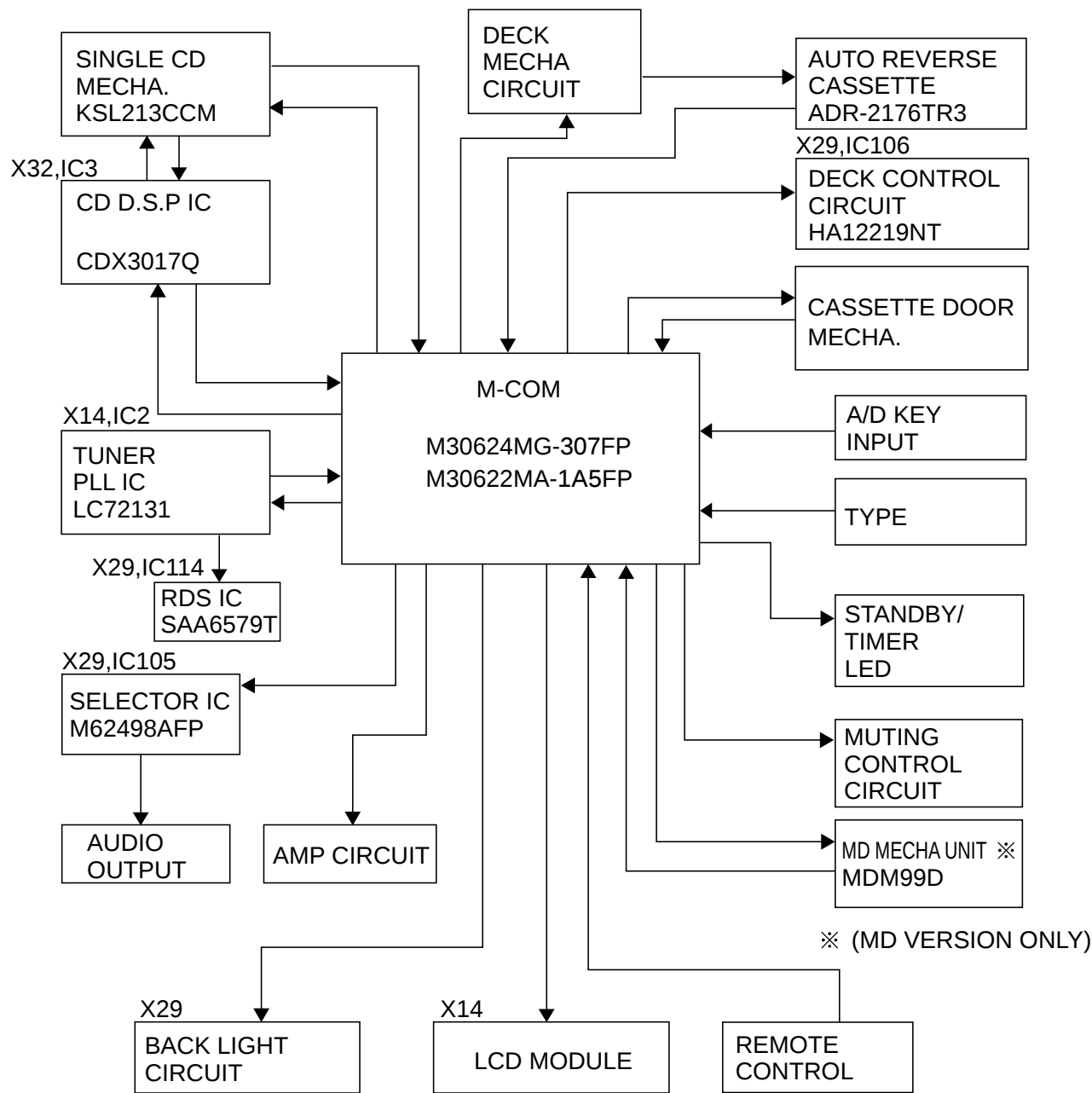
DISPLAY	DESCRIPTION
BLANK DISC	Non Recorded disc
CAN'T COPY	Inhibit to record by SCMS
CAN'T EDIT	Inhibit to edit by MD standard
CAN'T REC	Inhibit to record by disc damage(10 or more defects/recordable cluster is 0)
DISC ERROR**	OR : UTOC read error or FTNO>LTNO (edit/record) permit ALL ERASE only DO : 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

RXD-M32MD

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

RXD-M32MD

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.		

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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

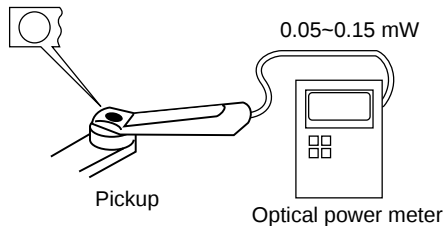
No.	ITEM	INPUT SETTING	OUTPUT SETTING	PLAYER SETTING	ALIGNMENT POINT	ALIGN FOR	FIG.
TEST MODE: While pressing the CD PLAY key, turn the power on.							
1	* LASER POWER	—	Set the sensor section of the optical power meter on the pickup lens.	Press the "PLAY" key to check that the display is "03".	—	On 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

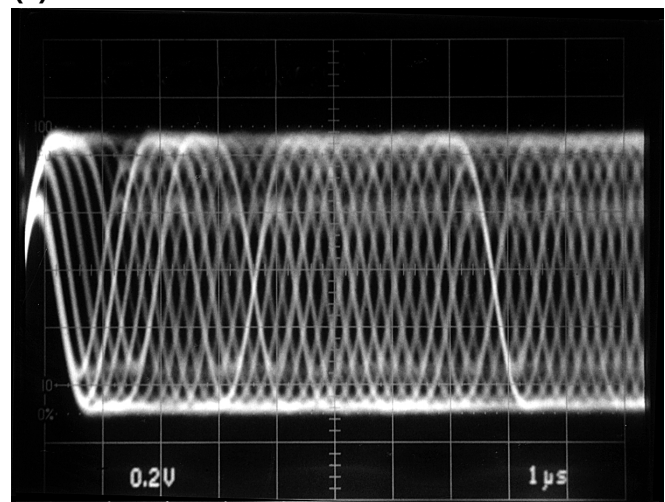


* How To Check the Laser Power

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

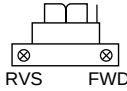


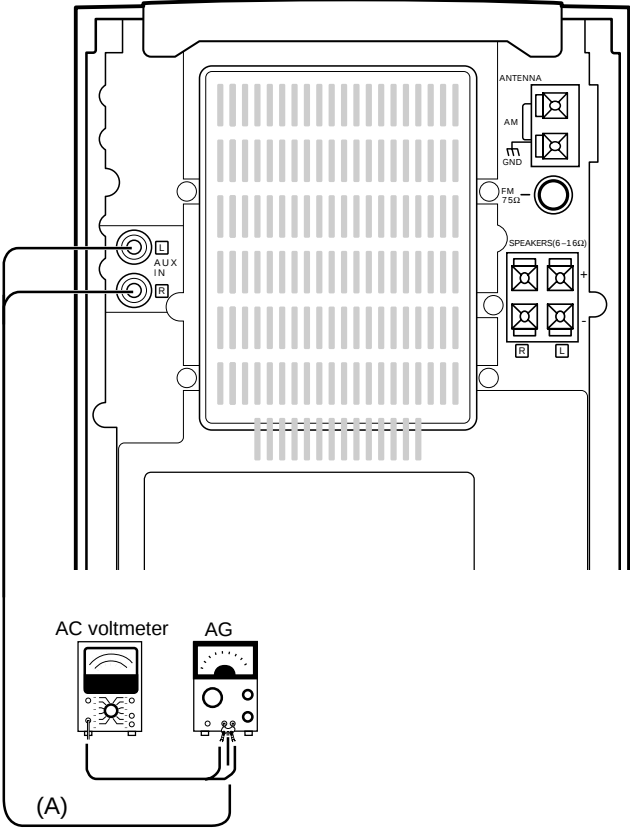
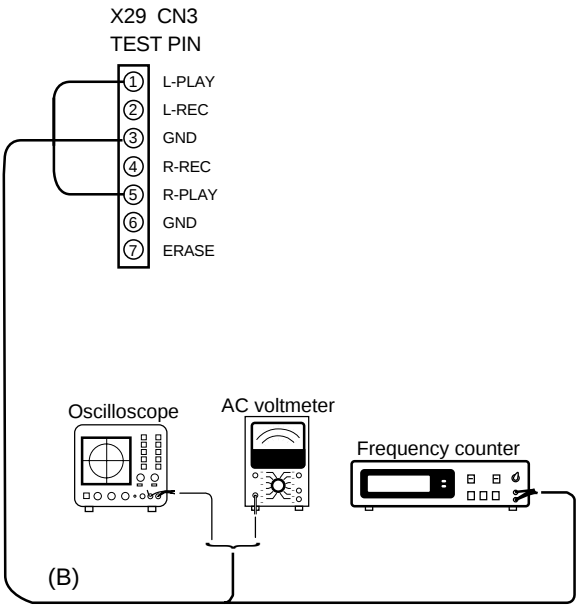
- RF signal in test mode (PLAY).
- Perform the tangential and focusing offset are focused into one point on the display. The crossing points above and below the center shall also be looked clearly.

RXD-M32MD

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	 RVS FWD	Adjust the output to maximum and adjust the azimuth adjustment screw for the Lissajours waveform pattern of the oscilloscope to become close to a 45β straight ling.	
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.	

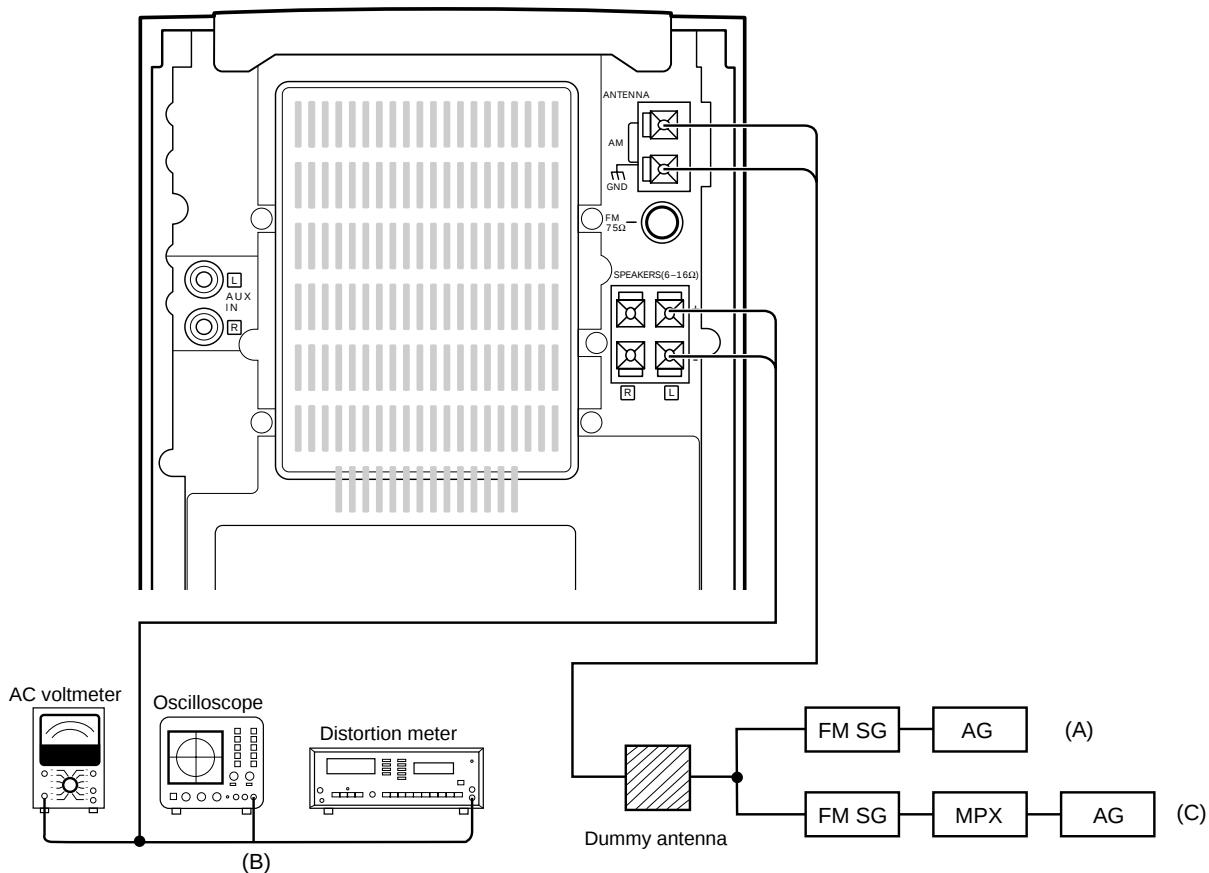


ADJUSTMENT

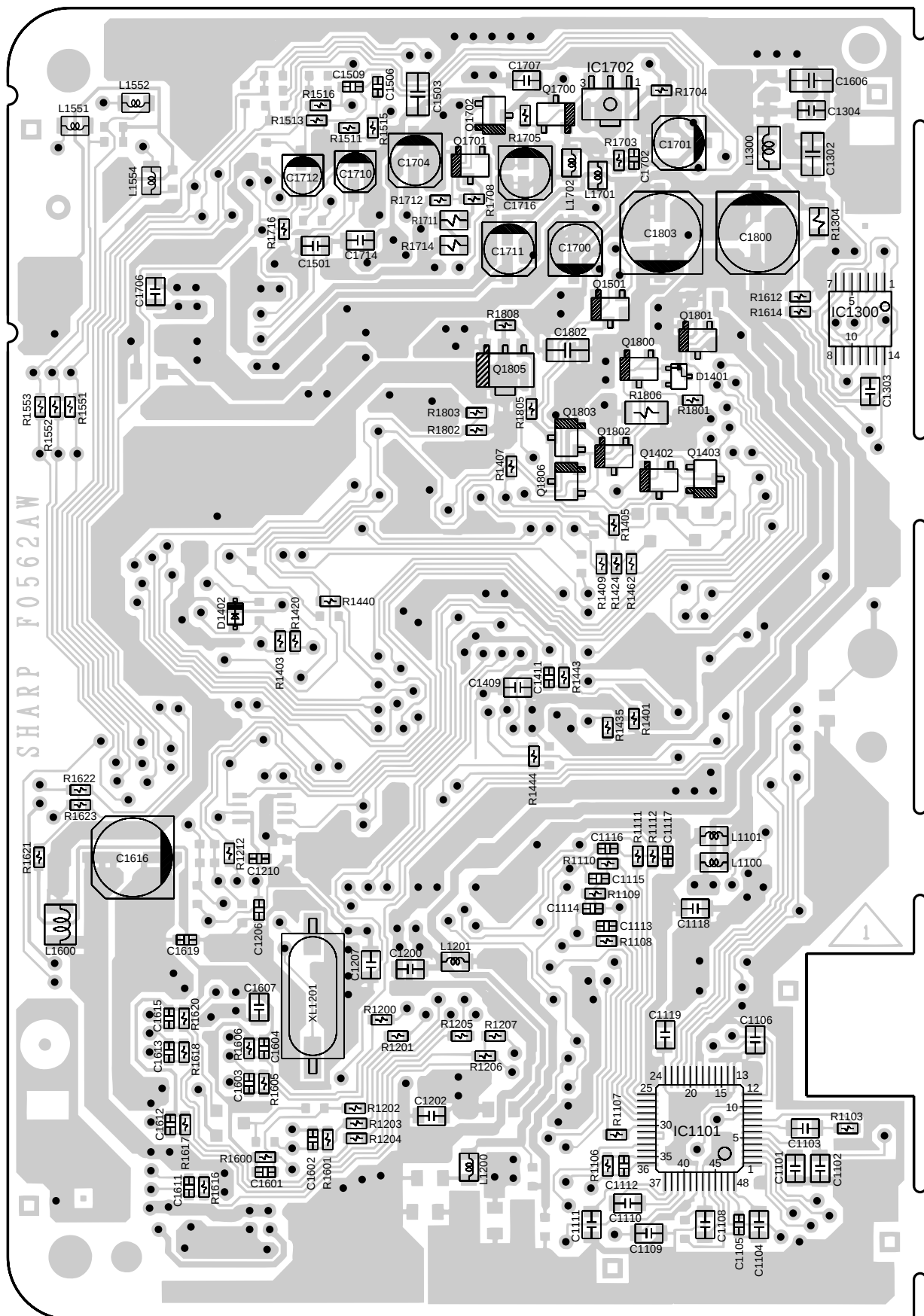
Tuner adjustment

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



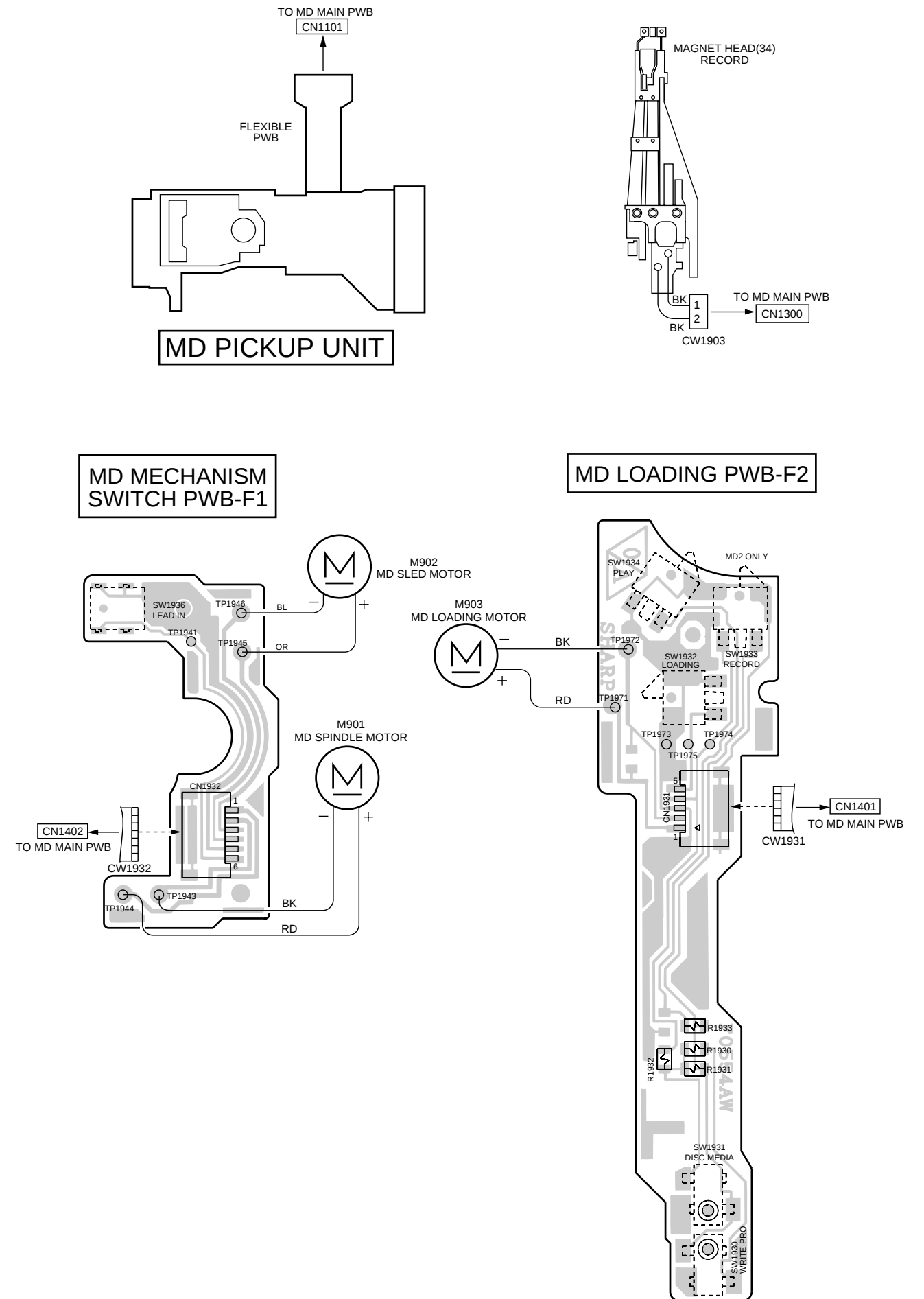
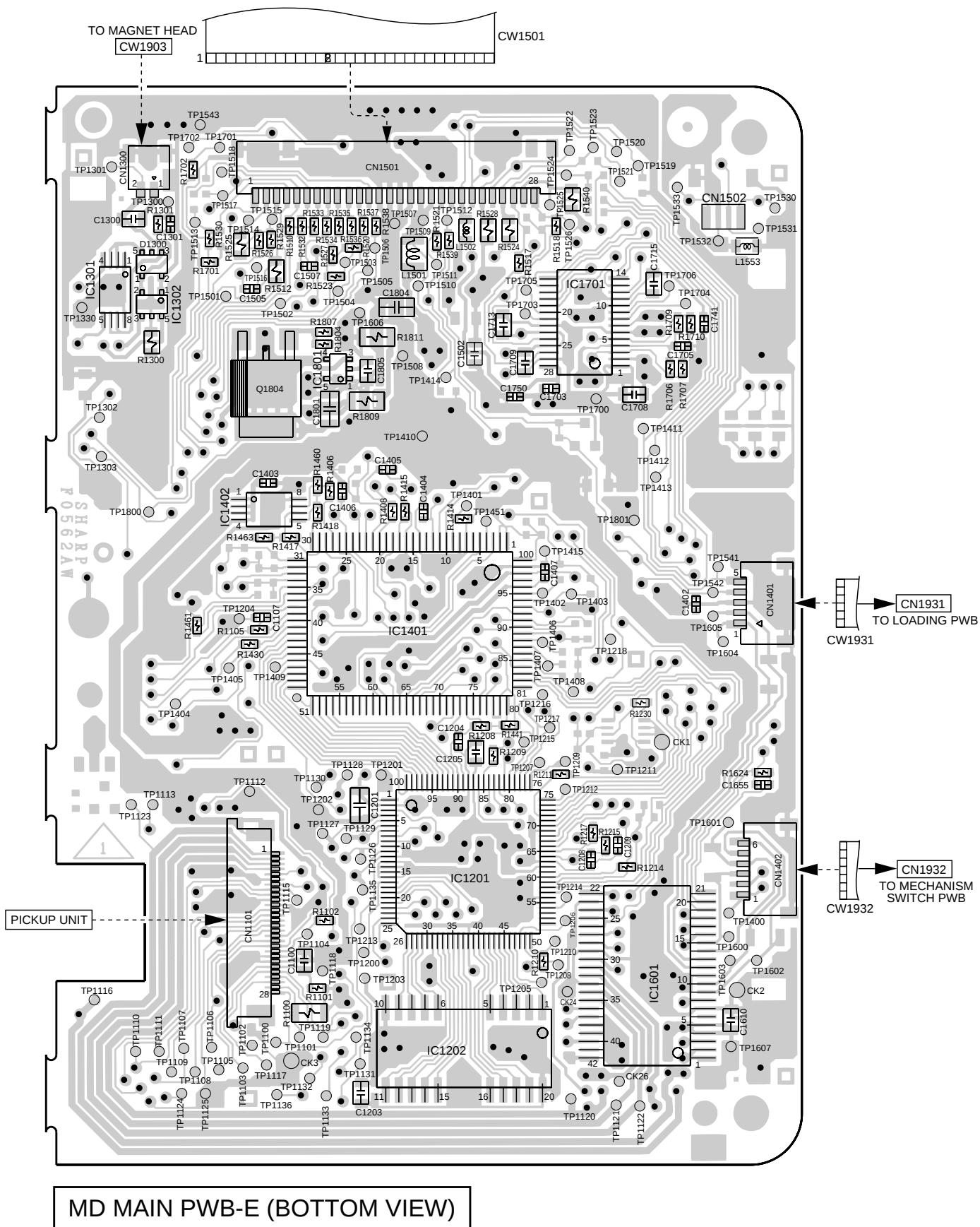
PC BOARD (Component side view)



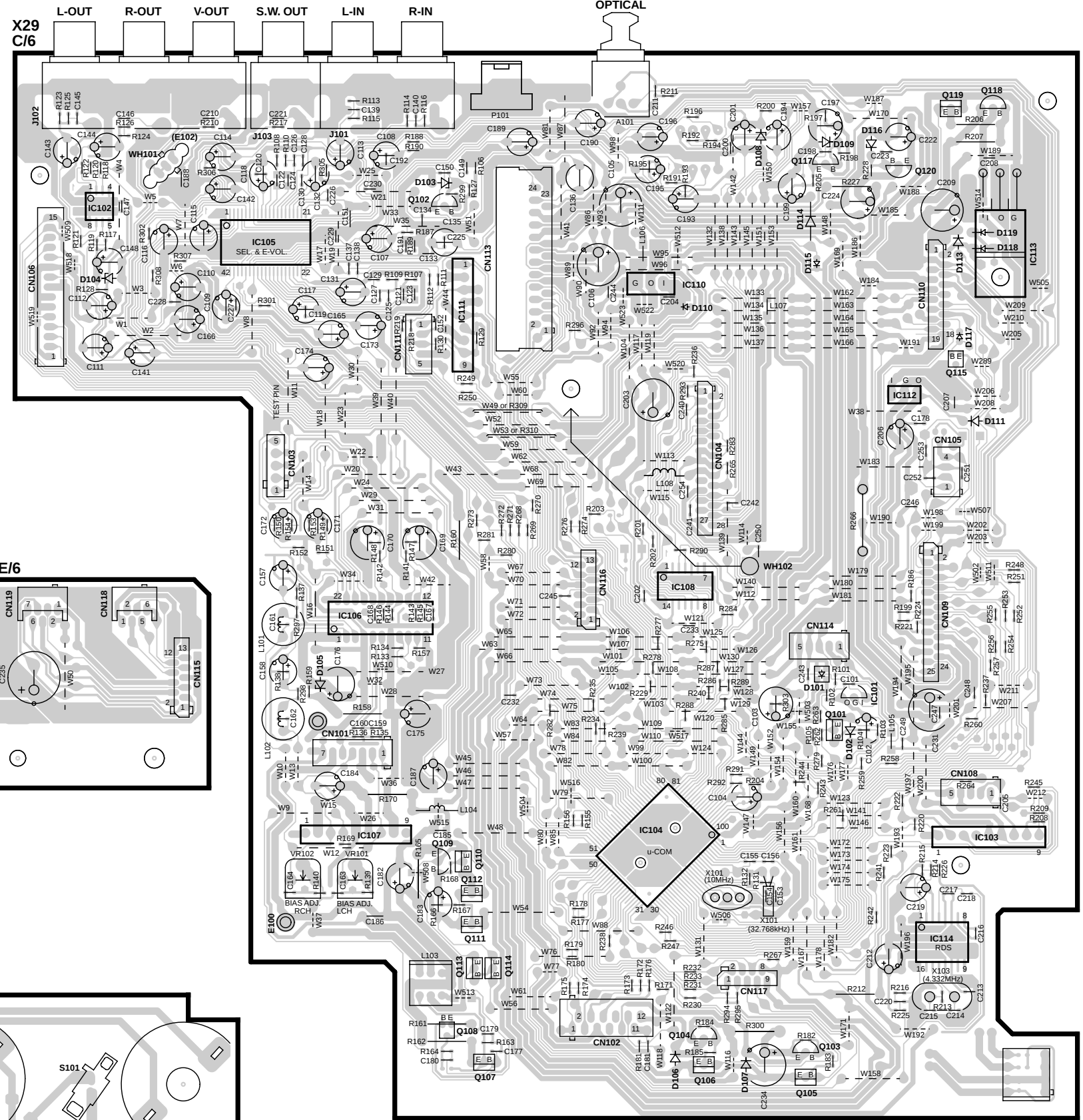
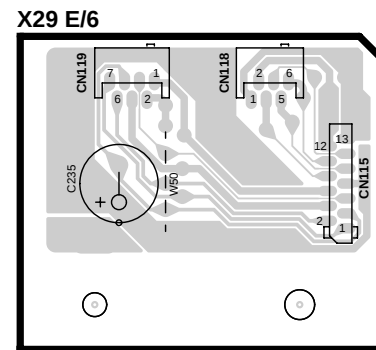
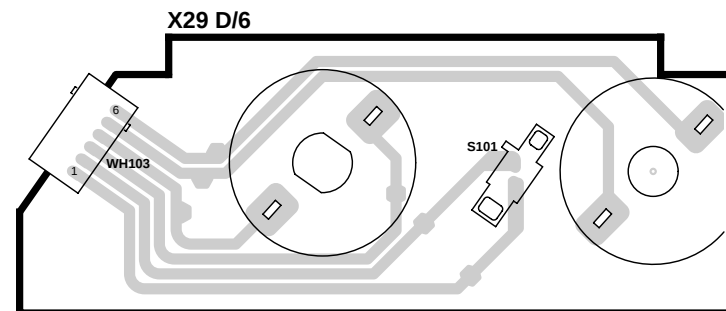
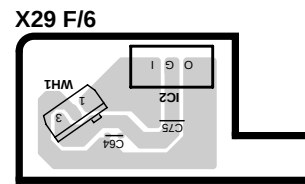
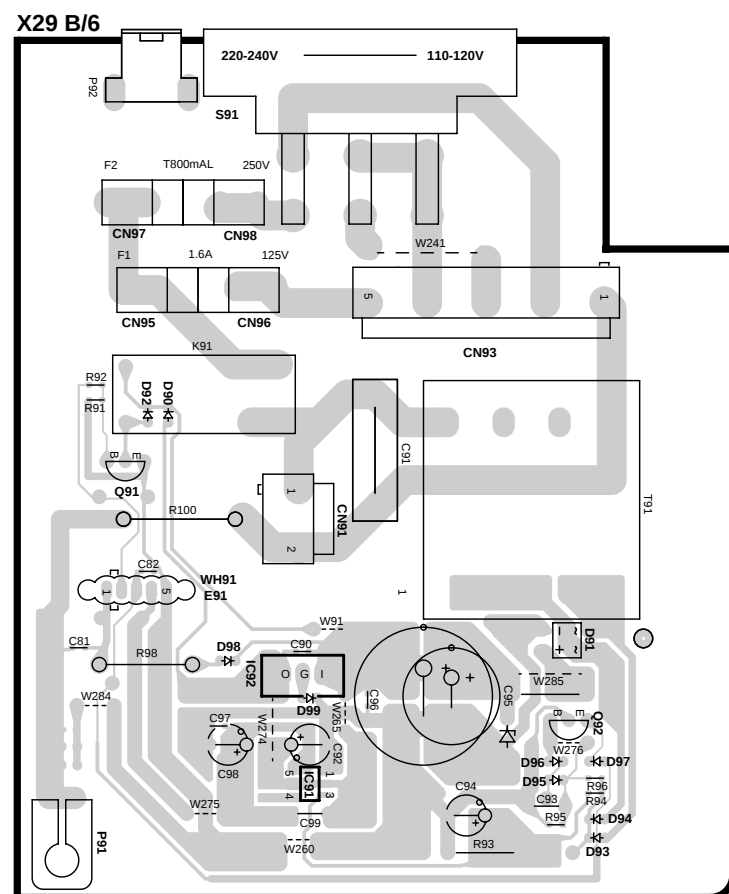
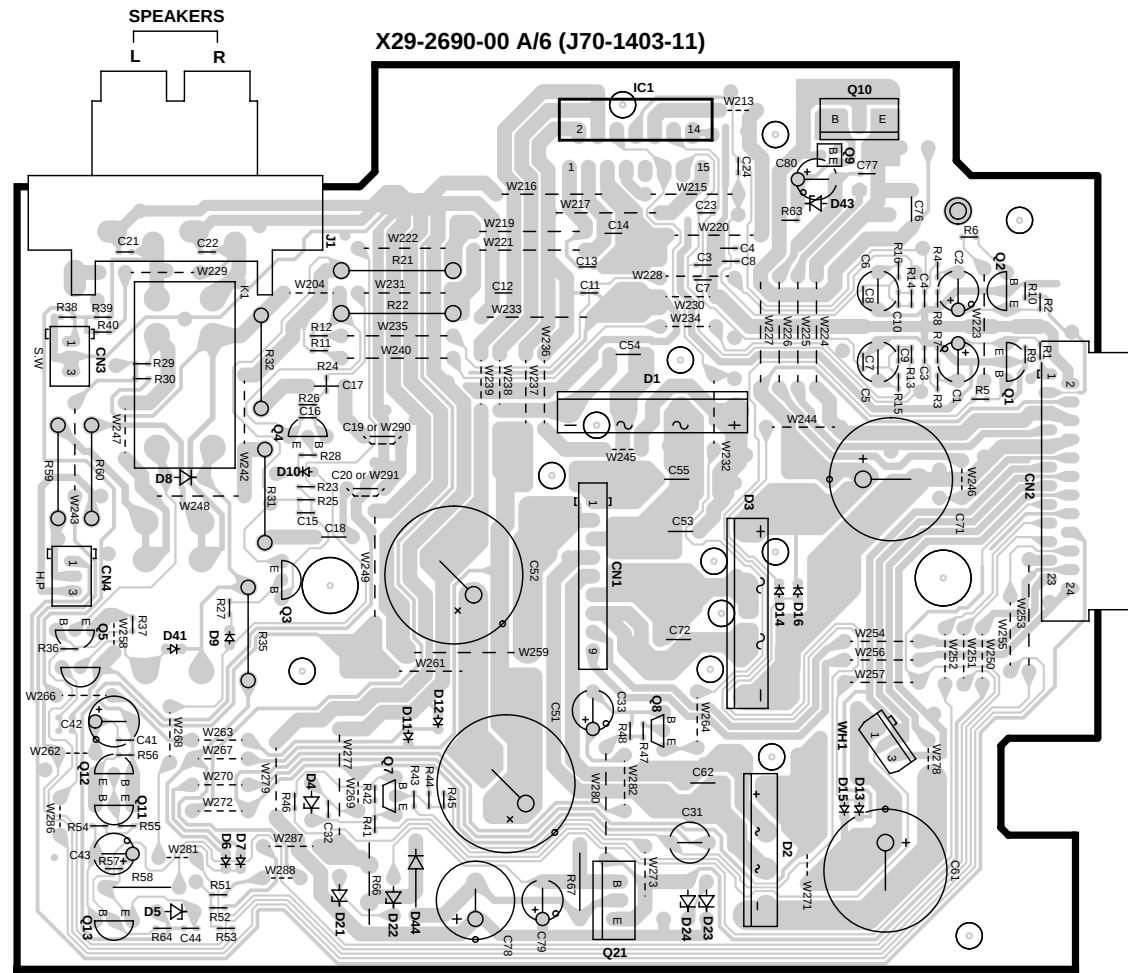
MD MAIN PWB-E (TOP VIEW)

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

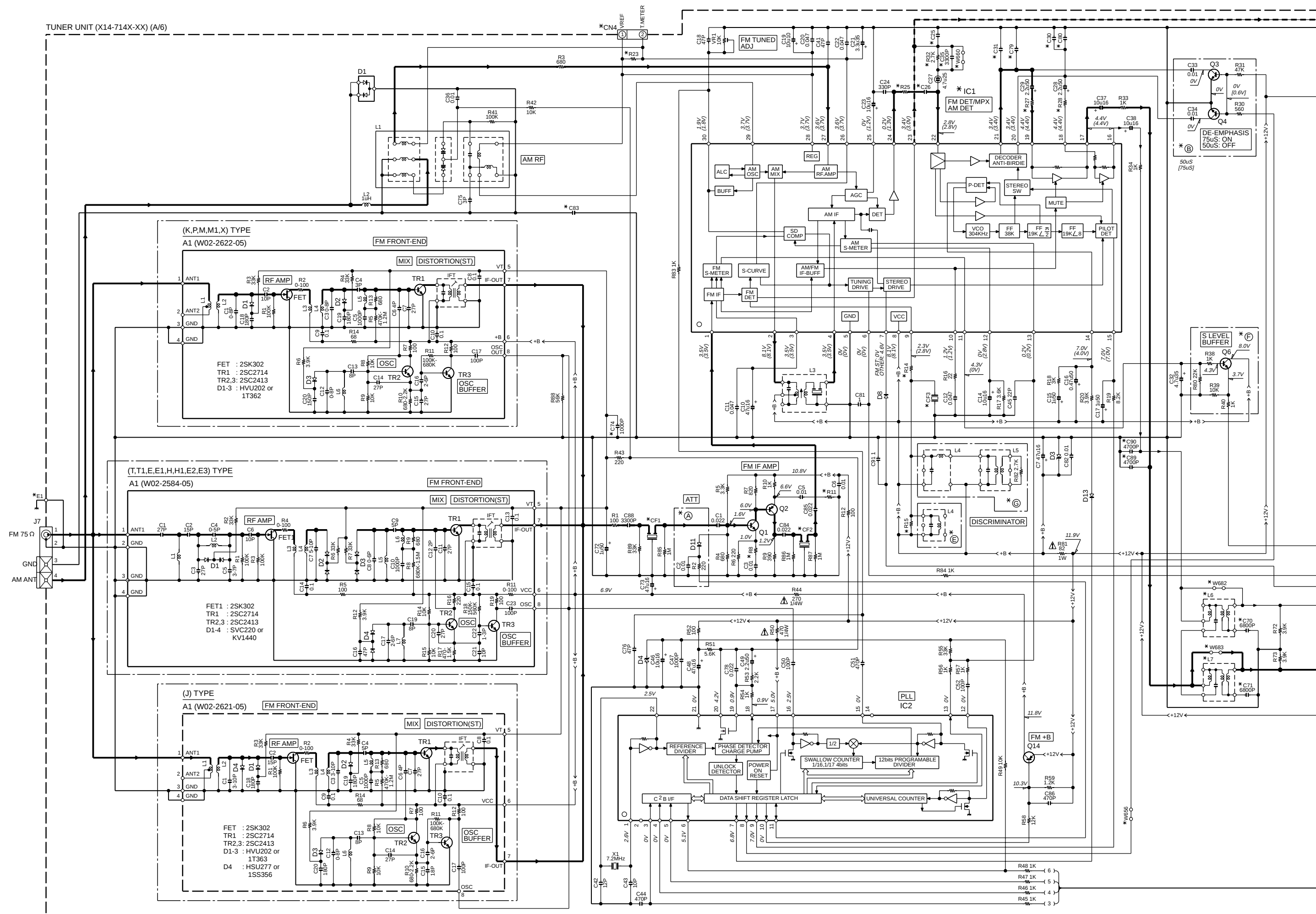
PC BOARD(Component side view)



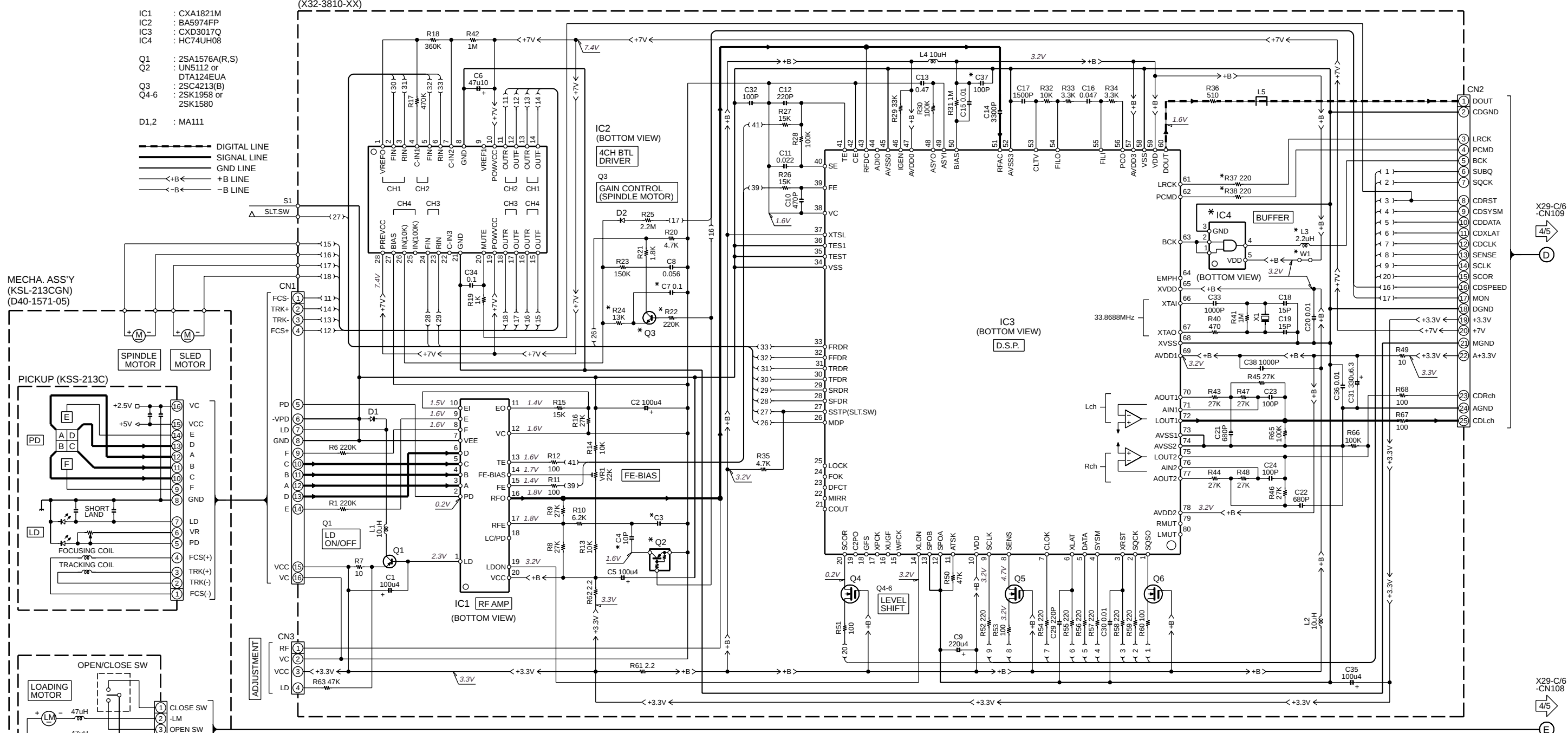
PC BOARD(Component side view)



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



1
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RXD-SH3MD-L/SH3MD-S/SH3MD-H/SH3MD-LS/SH3MD-W (X32-3810-00)

DESTINATION	UNIT No.	R22,24,37,38	C3	C4,7	C37	Q2,3	L3	W1	IC4
COUNTRY	ABB.								
JAPAN	J	0-00	YES	15P	YES	NO	YES	YES	YES

RXD-SH3MD-Y (X32-3810-00)

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

RXD-SH3MD-D (X32-3810-00)

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

RXD-M32MD-S/M32MD-LS/M32M-L (X32-3810-00)

DESTINATION	UNIT No.	R22,24,37,38	C3	C4,7	C37	Q2,3	L3	W1	IC4
COUNTRY	ABB.								
GENERAL MARKET	M								
U.K.	T	0-00	YES	15P	YES	NO	YES	YES	YES
EUROPE	E								
KOREA	H								
AUSTRALIA	X								

RXD-M32MD-Y (X32-3810-00)

DESTINATION	UNIT No.	R22,24,37,38	C3	C4,7	C37	Q2,3	L3	W1	IC4
COUNTRY	ABB.								
GENERAL MARKET	M1	0-00	YES	15P	YES	NO	YES	YES	YES
KOREA	H1								

RXD-M32-S/M32-LS (X32-3810-01)

DESTINATION	UNIT No.	R22,24,37,38	C3	C4,7	C37	Q2,3	L3	W1	IC4
COUNTRY	ABB.								
U.S.A.	K	0-01	NO	22P	NO	YES	NO	NO	NO
CANADA	P								

RXD-M32-S/M32-L/M32-H/M32-W (X32-3810-01)

DESTINATION	UNIT No.	R22,24,37,38	C3	C4,7	C37	Q2,3	L3	W1	IC4
COUNTRY	ABB.								
GENERAL MARKET	M								
AUSTRALIA	X	0-01	NO	22P	NO	YES	NO	NO	NO
U.K.	T								
EUROPE	E								
KOREA	H								

RXD-M32E-Y (X32-3810-01)

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

RXD-M32E-L/M32E-H/M32E-S/M32E-W (X32-3810-01)

DESTINATION	UNIT No.	R22,24,37,38	C3	C4,7	C37	Q2,3	L3	W1	IC4
COUNTRY	ABB.								
EUROPE	E2	0-01	NO	22P	NO	YES	NO	NO	NO

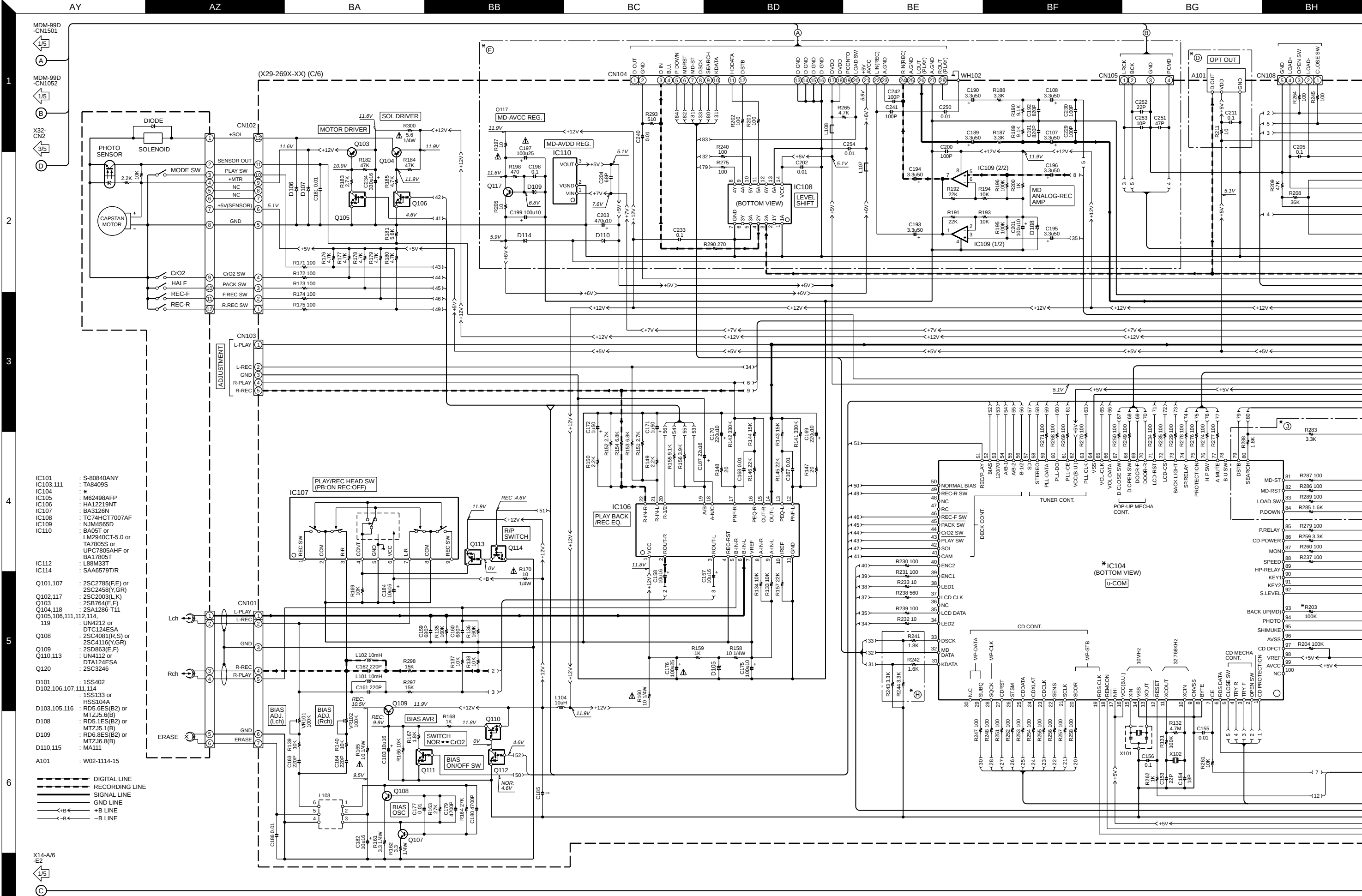
RXD-M32-Y (X32-3810-01)

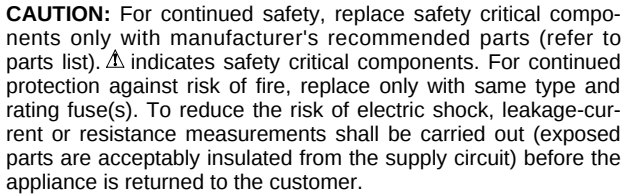
DESTINATION	UNIT No.	R22,24,37,38	C3	C4,7	C37	Q2,3	L3	W1	IC4
COUNTRY	ABB.								
U.K.	T1	0-01	NO	22P	NO	YES	NO	NO	NO
EUROPE	E1								

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

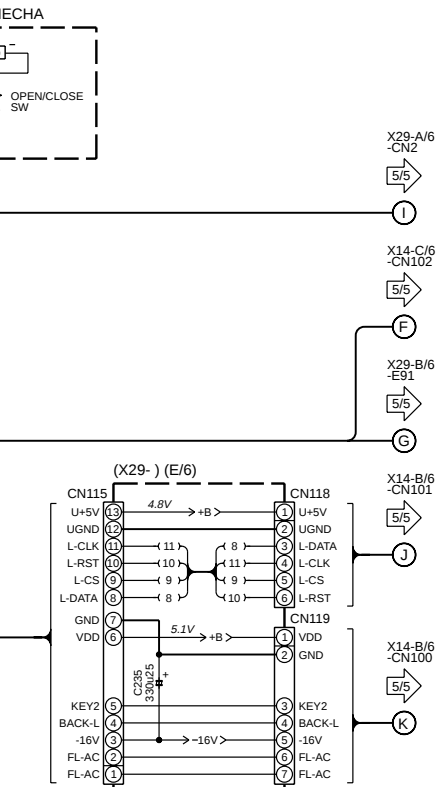
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock,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

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

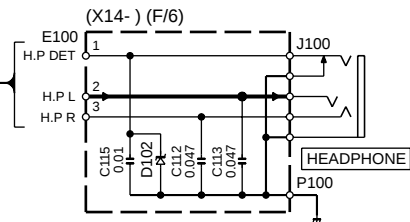
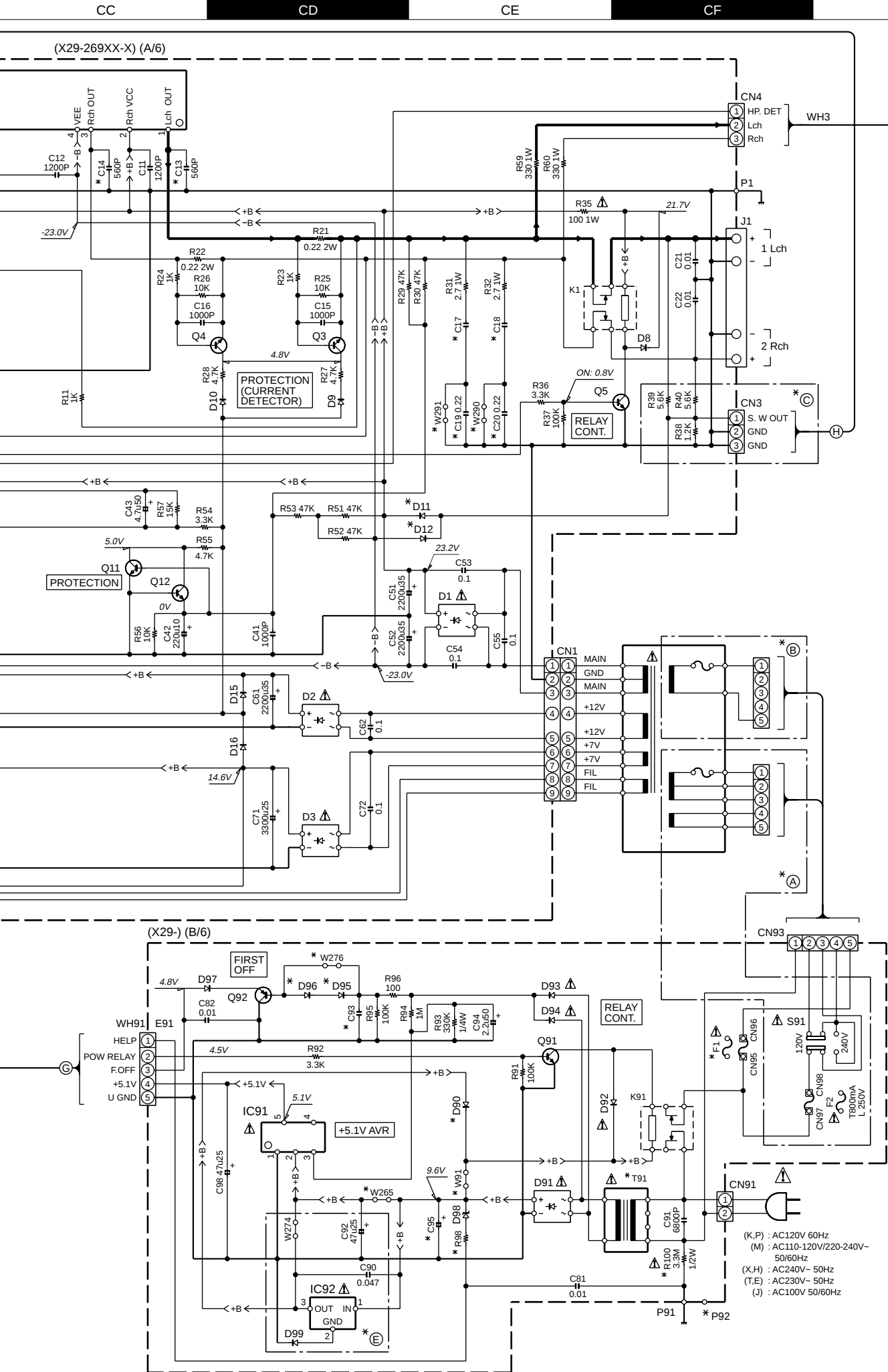




The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.



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	YES	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.																						
GENERAL MARKET	M,M1	0-21	YES	NO	NO	NO	YES	NO	NO	YES	NO	NO	YES	NO	56 1W	NO	560P	0.22	0.18	3300u25	T800mA L 250V	T800mA L 250V	L07-2758-05
AUSTRALIA	X	0-71		YES		NO	YES			NO	YES		NO	100 1W	0.1				3300u16				
U.K.	T	2-71	NO	YES		YES	NO			NO	YES		NO	100 1W	0.1				3300u16				
EUROPE	E																						
KOREA	H,H1																						

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	
COUNTRY	ABB.																								
U.S.A.	K	0-11	NO	YES		NO	YES	NO	YES	NO	YES	NO	NO	YES	100 1W	YES	NO	0.1	NO	0.1	3300u16	1.6A 125V	NO	L07-2758-05	
CANADA	M	0-22	YES	NO	NO		YES	NO	YES	NO	YES		NO	YES	NO	56 1W					0.18	3300u25			T800mA L 250V
GENERAL MARKET	M,M1	0-72																							
AUSTRALIA	X	0-72																							
U.K.	T,T1	2-72	NO	YES			YES	NO	NO	NO	YES		NO	YES	100 1W	NO	560P	0.22	0.22	0.1	3300u16	T800mA L 250V	NO	L07-2897-08	
EUROPE	E,E1																								
KOREA	H																								

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

DESTINATION			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
COUNTRY	ABB.		2-72	NO	YES	YES	YES	NO	NO	NO	YES	NO	YES	100 1W	NO	560P	0.22	0.1	3300u16	T800mA L 250V	NO	L07-2897-08
EUROPE	E2, E3																					

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

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

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)

Y39-3520-21

RXD-M32MD
KENWOOD

RXD-M32MD

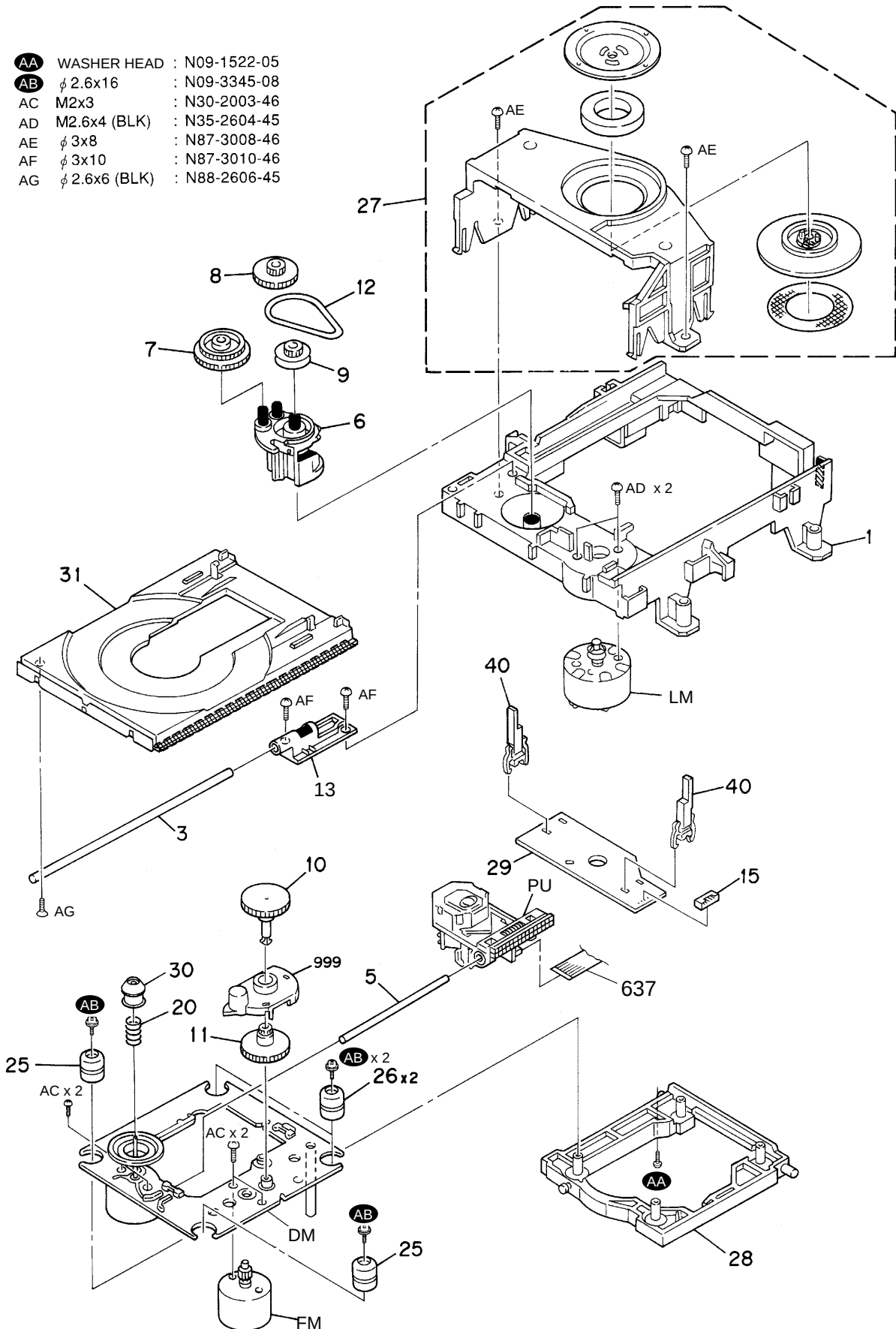
EXPLODED VIEW (CD MECHANISM)

- AA** WASHER HEAD : N09-1522-05
AB ϕ 2.6x16 : N09-3345-08
AC M2x3 : N30-2003-46
AD M2.6x4 (BLK) : N35-2604-45
AE ϕ 3x8 : N87-3008-46
AF ϕ 3x10 : N87-3010-46
AG ϕ 2.6x6 (BLK) : N88-2606-45

1

2

3



Parts with exploded numbers larger than 700 are not supplied.

Parts List:

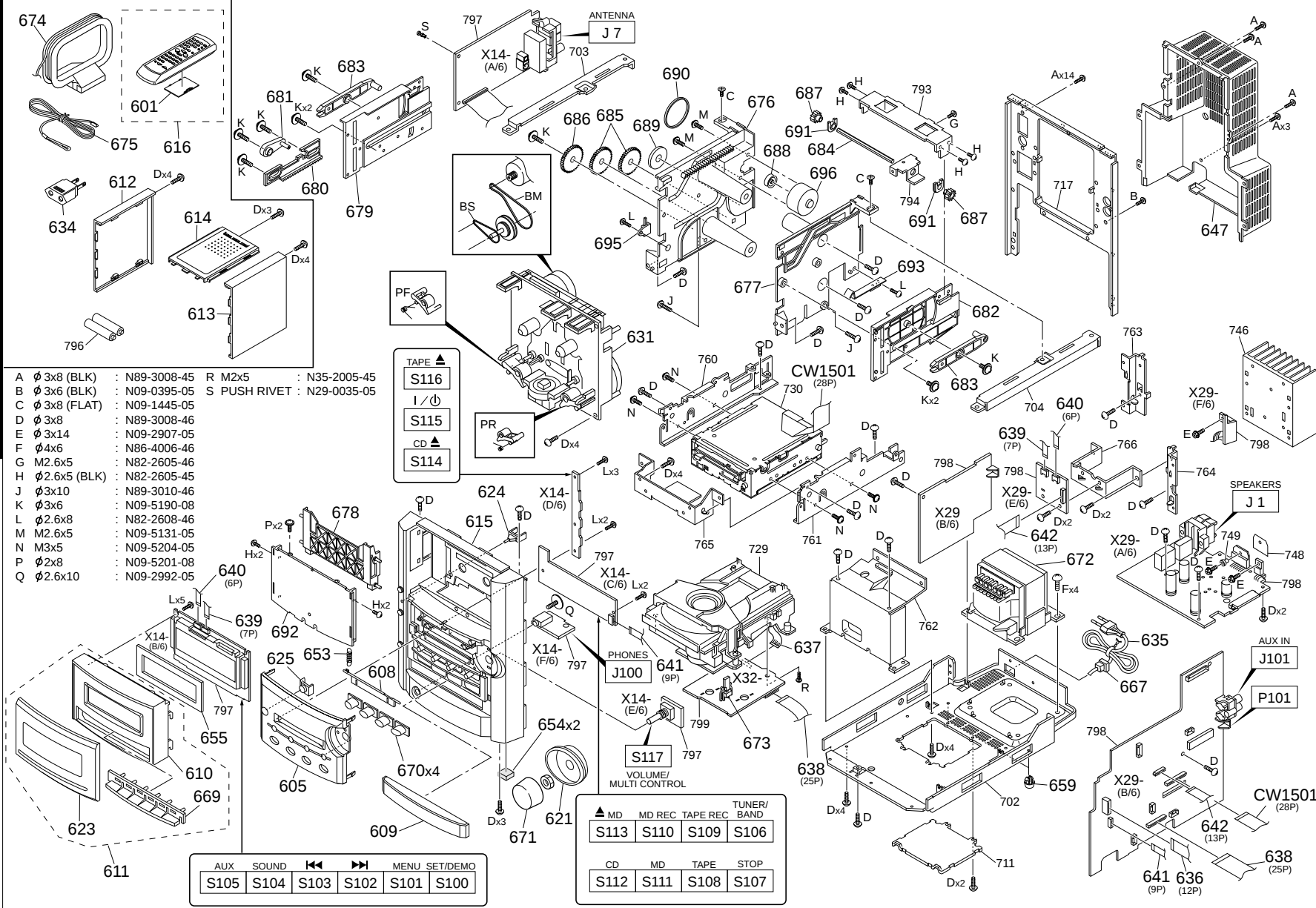
BA	M1.4x1.5 (BLK)	: N39-1415-45
BB	Ø 2x2	: N38-2020-41
BC	M1.4x2.5	: N09-3434-08
BD	M1.7x5 (BLK)	: N39-1750-45
BE	Ø 1.4x3	: N09-5197-08
BF	Ø 1.7x6	: N09-5198-08
BG	Ø 1.4x4.5 (BLK)	: N39-1445-45
BH	Ø 2x3	: N09-5199-08
BJ	Ø 1.7x3	: N09-5200-08
BK	WASHER	: N16-0014-46
BL	M1.7x3 (BLK)	: N39-1730-45
BM	Ø 1.4x5 (BLK)	: N39-1450-45

Assembly Steps:

1. Initial assembly of the main frame and internal components.
2. Installation of the PWB-F(1) and PWB-F(2) boards.
3. Final assembly including the PWB-E board and the MDPU.

RXD-M32MD

EXPLODED VIEW (UNIT)



RXD-M32MD

* 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-M32MD						
601	1E	*	A09-1161-08	BATTERY COVER	MX TEH	
605	2E	*	A21-3843-08	DRESSING PANEL		
605	2E	*	A21-3844-08	DRESSING PANEL		
608	2E	*	A29-1097-08	PANEL		
609	2E	*	A29-1099-08	PANEL		
610	2E	*	A29-1101-08	PANEL	MXH MTEH M1H1	L S Y
611	2E	*	A29-1121-08	PANEL ASSY		
612	1E	*	A50-1354-08	SIDE PLATE		
612	1E	*	A50-1355-08	SIDE PLATE		
612	1E	*	A50-1358-08	SIDE PLATE		
612	1E	*	A50-1359-08	SIDE PLATE	MXH MXH MTEH M1H1 MXH	LS L S Y LS
613	1E	*	A50-1361-08	SIDE PLATE		
613	1E	*	A50-1362-08	SIDE PLATE		
613	1E	*	A50-1365-08	SIDE PLATE		
613	1E	*	A50-1366-08	SIDE PLATE		
614	1E	*	A52-0387-08	TOP PLATE	MXH MXH MTEH M1H1	L LS S Y
615	2F	*	A60-1909-08	PANEL ASSY		
615	2F	*	A60-1914-08	PANEL ASSY		
615	2F	*	A60-1910-08	PANEL ASSY		
615	2F	*	A60-1913-08	PANEL ASSY		
616	1E	*	A70-1375-08	REMOTE CONTROL ASSY WHITE	M TEH M1 MX	S Y L
616	1E	*	A70-1376-08	REMOTE CONTROL ASSY 43,WHITE		
616	1E	*	A70-1393-08	REMOTE CONTROL ASSY YELLOW		
616	1E	*	A70-1416-08	REMOTE CONTROL ASSY BLUE		
616	1E	*	A70-1416-08	REMOTE CONTROL ASSY BLUE	MX	LS
621	2F	*	B07-2517-08	ESCUTCHEON		
623	2E	*	B10-3591-08	FRONT GLASS		
624	2F	*	B12-0396-08	INDICATOR		
625	2E	*	B12-0397-08	INDICATOR		
-			B46-0096-53	WARRANTY CARD	X ET T XT ME	
-			B46-0310-03	WARRANTY CARD		
-			B46-0350-00	QUESTIONAIRE CARD		
-			B58-0965-13	CAUTION CARD		
-			B58-0966-13	CAUTION CARD	MXT M E E E	
-		*	B60-4719-08	INSTRUCTION MANUAL (EN)		
-		*	B60-4720-08	INSTRUCTION MANUAL (TC)		
-		*	B60-4721-08	INSTRUCTION MANUAL (FR)		
-		*	B60-4722-08	INSTRUCTION MANUAL (GE)		
-		*	B60-4723-08	INSTRUCTION MANUAL (NE)	E E	
-		*	B60-4724-08	INSTRUCTION MANUAL (IT)		
-		*	B60-4725-08	INSTRUCTION MANUAL (ES)		
631	1F	*	D40-1681-05	MECHANISM ASSY	M ME X T H	
BM	1F		D16-0741-08	BELT(MAIN)		
BS	1F		D16-0705-08	BELT(SUB)		
PF	1F		D14-0380-08	PINCH ROLLER(FWD)		
PR	1F		D14-0381-08	PINCH ROLLER(RVS)		
△ 634	1E		E03-0115-05	AC PLUG ADAPTER		
△ 635	2G		E30-2592-15	AC CORD		
△ 635	2G		E30-2717-05	AC CORD		
△ 635	2G		E30-2721-05	AC CORD		
△ 635	2G		E30-2845-05	AC CORD		
636	2G	*	E35-2576-08	FLAT CABLE		
637	2F	*	E35-2578-08	FLAT CABLE		

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 .

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②

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
638	2G	*	E35-2579-08	FLAT CABLE		
639	1G,2E	*	E35-2581-08	FLAT CABLE		
640	1G,2E	*	E35-2582-08	FLAT CABLE		
641	2F,2G	*	E35-2583-08	FLAT CABLE		
642	2G	*	E35-2637-08	FLAT CABLE		
-		*	E35-2577-08	WIRING HARNESS	XTEH M	
647	1G	*	F07-1704-08	COVER		
647	1G	*	F07-1705-08	COVER		
-		*	F29-0127-08	INSULATING TUBE (AC CORD)		
653	2E	*	G01-4198-08	EXTENSION SPRING MD		
654	2F	*	G11-2342-08	CUSHION	MXEH T M	
655	2E	*	G11-2734-08	SOFT TAPE		
-		*	H10-7669-08	POLYSTYRENE FOAMED FIXTURE L		
-		*	H10-7670-08	POLYSTYRENE FOAMED FIXTURE R		
-		*	H25-0232-04	PROTECTION BAG		
-		*	H25-0651-04	PROTECTION BAG	X TEH MH M1H1 MH	S Y LS
-		*	H25-0661-04	PROTECTION BAG		
-		*	H25-1516-04	PROTECTION BAG		
-		*	H25-1561-04	PROTECTION BAG		
-		*	H50-3685-08	ITEM CARTON CASE 1PACKAGE		
-		*	H50-3686-08	ITEM CARTON CASE 1PACKAGE	TE X MH X	S LS L L
-		*	H50-3687-08	ITEM CARTON CASE 1PACKAGE		
-		*	H50-3689-08	ITEM CARTON CASE SEP		
-		*	H50-3795-08	ITEM CARTON CASE 1PACKAGE		
-		*	H50-3875-08	ITEM CARTON CASE BLUE/M		
-		*	H50-3876-08	ITEM CARTON CASE BLUE/X	MTE MXH MXH M1H1	S LS L Y
659	2G		J02-0370-05	FOOT		
667	2G		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
669	2E	*	K29-7780-08	KNOB		
670	2E	*	K29-7782-08	KNOB	M TEH X	
670	2E	*	K29-7782-08	KNOB		
670	2E	*	K29-7782-08	KNOB		
670	2E	*	K29-7785-08	KNOB		
671	2F	*	K29-7789-08	KNOB		
△ 672	2G	*	L07-2868-08	POWER TRANSFORMER	M TEH X	
△ 672	2G	*	L07-2869-08	POWER TRANSFORMER		
△ 672	2G	*	L07-2870-08	POWER TRANSFORMER		
P		*	N09-5201-08	TAPTITE SCREW		
			A29(DECK)			
673	2F		S74-0065-05	LEAF SWITCH		
674	1E		T90-0852-05	LOOP ANTENNA		
675	1E	*	T90-0861-05	LEAD WIRE ANTENNA		
676	1F	*	A10-3515-08	CHASSIS		
677	1F	*	A10-3516-08	CHASSIS		
678	2E	*	A53-2194-08	CASSETTE HOLDER		
679	1E	*	D10-3934-08	SLIDER		
680	1E	*	D10-3935-08	SLIDER		
681	1E	*	D10-3936-08	ARM		
682	1G	*	D10-3937-08	SLIDER		
683	1E	*	D10-3938-08	ARM		

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)
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3

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
684	1F	*	D10-3940-08	ROD		
685	1F	*	D13-1989-08	GEAR		
686	1F	*	D13-1990-08	GEAR		
687	1G	*	D13-1991-08	GEAR		
688	1F	*	D15-0430-08	PULLEY		
689	1F	*	D15-0431-08	PULLEY		
690	1F	*	D16-0747-08	BELT		
691	1G	*	D23-0337-08	RETAINER		
692	2E	*	J19-6073-08	HOLDER		
693	1G	*	G02-1712-08	FLAT SPRING		
695	1F		S64-0026-05	LEVER SWITCH		
696	1F		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)						
D104			B11-1509-08	COLOR FILTER (BLUE)	MTEHX	
D105			B11-1510-08	COLOR FILTER (YELLOW)	M1H1	
ED100			B30-2574-05	LED(GRN3(80))		
			B30-2567-05	LED(RED(80) HI-BR)		
			B38-0233-08	LCD DISPLAY ASSY		
C1			CK73FB1H223K	CHIP C	0.022UF	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	16VV
C10			CE04LW1C470M	ELECTRO	47UF	16VV
C11 ,12			CK73FB1H473K	CHIP C	0.047UF	K
C14			CE04LW1C100M	ELECTRO	10UF	16VV
C15			CE04LW1H010M	ELECTRO	1.0UF	50VV
C16			CE04RW1HR47M	ELECTRO	0.47UF	50VV
C17			CE04LW1H010M	ELECTRO	1.0UF	50VV
C18			CC73FCH1H470J	CHIP C	47PF	J
C19			CE04RW1A100M	ELECTRO	10UF	10VV
C20			CK73FB1H473K	CHIP C	0.047UF	K
C21			CE04RW1V3R3M	ELECTRO	3.3UF	35VV
C22			CK73FB1H473K	CHIP C	0.047UF	K
C23			CE04LW1C100M	ELECTRO	10UF	16VV
C24			CK73FB1H331K	CHIP C	330PF	K
C25			CC73FCH1H181J	CHIP C	180PF	J
C25			CC73FCH1H471J	CHIP C	470PF	J
C26			CK73FB1H183K	CHIP C	0.018UF	K
C26			CK73FB1H223K	CHIP C	0.022UF	K
C27			CE04HW1E4R7M	NP-ELEC	4.7UF	25VV
C28 ,29			CE04LW1H2R2M	ELECTRO	2.2UF	50VV
C30 ,31			CK73FB1H223K	CHIP C	0.022UF	K
C32			CE04LW1V4R7M	ELECTRO	4.7UF	35VV
C33 ,34			CK73FB1H103K	CHIP C	0.010UF	K
C35			CK73FB1H332K	CHIP C	3300PF	K
C36			CK73FB1H103K	CHIP C	0.010UF	K
C37 ,38			CE04LW1C100M	ELECTRO	10UF	16VV

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C41			CC73FCH1H470J	CHIP C	47PF	J
C42			CC73FCH1H120J	CHIP C	12PF	J
C43			CC73FCH1H100D	CHIP C	10PF	D
C44			CK73FB1H471K	CHIP C	470PF	K
C45			CC73FCH1H220J	CHIP C	22PF	J
C46			CE04LW1C100M	ELECTRO	10UF	16VV
C47			CK73FB1H102K	CHIP C	1000PF	K
C48			CE04LW1C470M	ELECTRO	47UF	16VV
C49			CE04LW1H2R2M	ELECTRO	2.2UF	50VV
C50			CC73FSL1H101J	CHIP C	100PF	J
C51			CK73FB1H471K	CHIP C	470PF	K
C52			CC73FSL1H101J	CHIP C	100PF	J
C70 ,71			CK73FB1H682K	CHIP C	6800PF	K
C72			CE04LW1H010M	ELECTRO	1.0UF	50VV
C73			CE04LW1C470M	ELECTRO	47UF	16VV
C75			CC73FCH1H030C	CHIP C	3.0PF	C
C76			CC73FCH1H470J	CHIP C	47PF	J
C78			CK73FB1H223K	CHIP C	0.022UF	K
C79 ,80			CK73FB1H332K	CHIP C	3300PF	K
C79 ,80			CK73FB1H682K	CHIP C	6800PF	K
C81			CK73FF1C105Z	CHIP C	1.0UF	Z
C82			CK73FB1H103K	CHIP C	0.010UF	K
C83			CC73FSL1H101J	CHIP C	100PF	J
C83			CK73FB1H223K	CHIP C	0.022UF	K
C84 ,85			CK73FB1H223K	CHIP C	0.022UF	K
C86			CK73FB1H471K	CHIP C	470PF	K
C88			CK73FB1H332K	CHIP C	3300PF	K
C89 ,90			CK73FB1H472K	CHIP C	4700PF	K
C91			CK73FF1C105Z	CHIP C	1.0UF	Z
C100			CK73EF1C105Z	CHIP C	1.0UF	Z
C101			CK73GB1C104K	CHIP C	0.10UF	K
C102,103			CK73EF1C105Z	CHIP C	1.0UF	Z
C104-106			CC73GCH1H470J	CHIP C	47PF	J
C110,111			CK73GB1H102K	CHIP C	1000PF	K
C112,113			CK73GB1C473K	CHIP C	0.047UF	K
C114,115			CK73GB1H103K	CHIP C	0.010UF	K
CN4			E40-4871-05	PIN ASSY		
CN100		*	E40-8613-05	FLAT CABLE CONNECTOR		
CN101		*	E40-8635-05	FLAT CABLE CONNECTOR		
CN102		*	E40-8612-05	FLAT CABLE CONNECTOR		
J7			E20-0321-05	LOCK TERMINAL BOARD		
J7			E70-0052-05	LOCK TERMINAL BOARD		
J100			E11-0200-05	MINIATURE PHONE JACK(5P)		
E1		*	F10-1165-08	SHIELDING PLATE		
E1		*	F10-1166-08	SHIELDING PLATE		
-		*	G11-2733-08	SOFT TAPE (LCD)		
-		*	J19-6072-08	HOLDER (LCD)		
-		*	J19-6074-08	HOLDER (LCD)		
P100		*	J21-5845-04	MOUNTING HARDWARE		
CF1 ,2			L72-0531-05	CERAMIC FILTER		
CF1 ,2			L72-0536-05	CERAMIC FILTER		
CF3			L72-0607-05	CERAMIC FILTER		

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L1 L2 L3 L4 L5			L39-1384-05 L40-1091-17 L30-0911-05 L30-0950-05 L30-0951-05	COMBINATION COIL SMALL FIXED INDUCTOR(1UH) AM IFT FM IFT FM IFT	TEHH1 TEHH1	
L6 ,7 X1			L79-1236-05 L77-2232-05	LC FILTER CRYSTAL RESONATOR	TEHH1	
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 R9 R10 R11			RK73GB1J100J RK73GB1J330J RK73FB2A391J RK73FB2A102J RK73GB1J220J	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 CHIP R 22 J 1/16W	TEHH1 MM1X	
R11 R12 R14 R14 R15			RK73GB1J330J RK73FB2A101J RK73FB2A101J RK73FB2A271J RK73GB1J333J	CHIP R 33 J 1/16W CHIP R 100 J 1/10W CHIP R 100 J 1/10W CHIP R 270 J 1/10W CHIP R 33K J 1/16W	MM1X TEHH1 MM1X TEHH1	
R16 R17 R18 R19 R20			RK73GB1J220J RK73FB2A362J RK73GB1J302J RK73GB1J822J RK73GB1J392J	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 CHIP R 3.9K J 1/16W		
R23 R23 R25 R25 R27 ,28			RK73GB1J153J RK73GB1J332J RK73GB1J183J RK73GB1J273J RK73GB1J432J	CHIP R 15K J 1/16W CHIP R 3.3K J 1/16W CHIP R 18K J 1/16W CHIP R 27K J 1/16W CHIP R 4.3K J 1/16W	TEHH1 MM1X MM1X TEHH1 TEHH1	
R27 ,28 R30 R31 R32 R33 ,34			RK73GB1J472J RK73GB1J561J RK73GB1J473J RK73FB2A272J RK73GB1J102J	CHIP R 4.7K J 1/16W CHIP R 560 J 1/16W CHIP R 47K J 1/16W CHIP R 2.7K J 1/10W CHIP R 1.0K J 1/16W	MM1X MM1 MM1 MM1X	
R35 R36 R37 R38 R39			RK73GB1J101J RK73GB1J102J RK73GB1J392J RK73GB1J102J RK73GB1J103J	CHIP R 100 J 1/16W CHIP R 1.0K J 1/16W CHIP R 3.9K J 1/16W CHIP R 1.0K J 1/16W CHIP R 10K J 1/16W	TEHH1 TEHH1 TEHH1 TEHH1 TEHH1	
R42 R43 R44 R45 -48 R49	Δ		RK73GB1J103J RK73GB1J221J RD14NB2E271J RK73GB1J102J RK73GB1J103J	CHIP R 10K J 1/16W CHIP R 220 J 1/16W RD 270 J 1/4W CHIP R 1.0K J 1/16W CHIP R 10K J 1/16W		
R50 R51 R52 R53 R54	Δ		RD14NB2E471J RK73GB1J562J RK73GB1J101J RK73GB1J222J RK73GB1J102J	RD 470 J 1/4W CHIP R 5.6K J 1/16W CHIP R 100 J 1/16W CHIP R 2.2K J 1/16W CHIP R 1.0K J 1/16W		
R55 R56 ,57			RK73GB1J333J RK73GB1J102J	CHIP R 33K J 1/16W CHIP R 1.0K J 1/16W		

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R58 R59 R72 ,73 R79 R80			RK73FB2A123J RK73FB2A122J RK73GB1J392J RK73GB1J332J RK73FB2A223J	CHIP R 12K J 1/10W CHIP R 1.2K J 1/10W CHIP R 3.9K J 1/16W CHIP R 3.3K J 1/16W CHIP R 22K J 1/10W	TEHH1	
R81 R82 R83 R84 R85 -87	Δ		RS14KB3A820J RK73GB1J272J RK73FB2A102J RK73EB2B102J RK73GB1J105J	FL-PROOF RS 82 J 1W CHIP R 2.7K J 1/16W CHIP R 1.0K J 1/10W CHIP R 1.0K J 1/8W CHIP R 1.0M J 1/16W	TEHH1	
R88 R89 R101 R102 R103			RK73GB1J563J RK73GB1J333J RK73GB1J104J RK73GB1J113J RK73GB1J243J	CHIP R 56K J 1/16W CHIP R 33K J 1/16W CHIP R 100K J 1/16W CHIP R 11K J 1/16W CHIP R 24K J 1/16W		
R104 R105 R106 R108 R109,110			RK73GB1J433J RK73GB1J683J RK73GB1J104J RK73GB1J682J RK73GB1J133J	CHIP R 43K J 1/16W CHIP R 68K J 1/16W CHIP R 100K J 1/16W CHIP R 6.8K J 1/16W CHIP R 13K J 1/16W		
R111,112 R113 R120 R121 R122			RK73GB1J221J RK73GB1J332J RK73GB1J104J RK73GB1J113J RK73GB1J243J	CHIP R 220 J 1/16W CHIP R 3.3K J 1/16W CHIP R 100K J 1/16W CHIP R 11K J 1/16W CHIP R 24K J 1/16W		
R123 R124 R125 R126 R127			RK73GB1J433J RK73GB1J683J RK73GB1J104J RK73GB1J154J RK73GB1J244J	CHIP R 43K J 1/16W CHIP R 68K J 1/16W CHIP R 100K J 1/16W CHIP R 150K J 1/16W CHIP R 240K J 1/16W		
R132 R133 R134 R135 R136			RK73GB1J102J RK73GB1J101J RK73GB1J154J RK73GB1J244J RK73GB1J394J	CHIP R 1.0K J 1/16W CHIP R 100 J 1/16W CHIP R 150K J 1/16W CHIP R 240K J 1/16W CHIP R 390K J 1/16W		
R137 R138 VR1 W651,652 W654-656			RK73GB1J331J RK73GB1J102J R32-0037-05 R92-0670-05 R92-0670-05	CHIP R 330 J 1/16W CHIP R 1.0K J 1/16W SEMI FIXED VARIABLE RESISTOR CHIP R 0 OHM CHIP R 0 OHM		
W654,655 W654,655 W659 W659 W659,660			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	M1M2	
W662 W680 W682-685 W682-685 W684,685			R92-0670-05 R92-0679-05 R92-0679-05 R92-0679-05 R92-0679-05	CHIP R 0 OHM CHIP R 0 OHM CHIP R 0 OHM CHIP R 0 OHM CHIP R 0 OHM	K1E1E2 X1 K1M1M2 X1 E1E2	
S100-116			S70-0031-05	TACT SWITCH		
S117			T99-0602-05	ROTARY ENCODER		
D1			DA204U	DIODE		

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D1 D1 D3 D3 D4			MA143A 1SS302 HZS8.2N(B2) MTZJ8.2(B) HZS5.1N(B2)	DIODE DIODE ZENER DIODE ZENER DIODE ZENER DIODE		
D4 D8 D11 D13 D102			MTZJ5.1(B) MA111 MA111 MA111 UDZ5.6B	ZENER DIODE DIODE DIODE DIODE ZENER DIODE	TEHH1	
ED101 IC1 IC1 IC2 Q1		*	BL-150NK LA1837 LA1838 LC72131 2SC4081(R,S)	FLUORESCENT INDICATOR TUBE ANALOGUE IC ANALOGUE IC MOS-IC TRANSISTOR	TEHH1 MM1X	
Q1 Q2 Q2 Q3 ,4 Q3 ,4			2SD1819A(Q,R) 2SA1576A(R,S) 2SB1218A(Q,R) 2SC4081(R,S) 2SD1819A(Q,R)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	MM1 MM1	
Q6 ,7 Q6 ,7 Q14 Q14 Q100			2SC4081(R,S) 2SD1819A(Q,R) 2SA1576A(R,S) 2SB1218A(Q,R) 2SD1963	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	TEHH1 TEHH1	
Q101 Q101			DTA124EUA UN5112	DIGITAL TRANSISTOR DIGITAL TRANSISTOR		
A1 A1 A100			W02-2584-05 W02-2622-05 W02-2537-05	FM FRONT-END ASSY FM FRONT-END ASSY ELECTRIC CIRCUIT MODULE	TEHH1 MM1X	
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 C15 ,16 C17 -20 C21 ,22			CK73GB1H122K CK73GB1H561K CK73GB1H102K CQ93FMG1H224J CK73GB1H103K	CHIP C 1200PF K CHIP C 560PF K CHIP C 1000PF K MYLAR 0.22UF J CHIP C 0.010UF K		
C23 ,24 C31 C33 C41 C42			CC73GCH1H330J CE04HW1E100M CE04KW1E470M CK73GB1H102K CE04KW1A221M	CHIP C 33PF J NP-ELEC 10UF 25WV ELECTRO 47UF 25WV CHIP C 1000PF K ELECTRO 220UF 10WV		
C43 C51 ,52 C53 -55 C61 C62		*	CE04KW1H4R7M C90-3928-05 C91-1567-05 CE04KW1V222M CQ93FMG1H104J	ELECTRO 4.7UF 50WV ELECTRO 2200UF 35WV FILM 0.1UF J ELECTRO 2200UF 35WV MYLAR 0.10UF J		
C64 C71 C72			CK73GB1H102K CE04KW1E332M CQ93FMG1H104J	CHIP C 1000PF K ELECTRO 3300UF 25WV MYLAR 0.10UF J		

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C75 C78 C79 C80 C81 ,82			CQ93FMG1H473J CE04DW1V221M CE04KW1H100M CE04KW1E470M CK73GB1H103K	MYLAR 0.047UF J ELECTRO 220UF 35WV ELECTRO 10UF 50WV ELECTRO 47UF 25WV CHIP C 0.010UF K		
C90 C91 C92 C93 C93			CK73GB1C473K C91-1488-05 CE04KW1E470M CQ93FMG1H104J CQ93FMG1H184J	CHIP C 0.047UF K MF 6800PF 250VAC ELECTRO 47UF 25WV MYLAR 0.10UF J MYLAR 0.18UF J	MM1 MM1 XTEHH1 MM1	
C94 C95 C95 C98 C101			CE04KW1H2R2M CE04KW1C332M CE04KW1E332M CE04KW1E470M CK73GB1H103K	ELECTRO 2.2UF 50WV ELECTRO 3300UF 16WV ELECTRO 3300UF 25WV ELECTRO 47UF 25WV CHIP C 0.010UF K	XTEHH1 MM1	
C102 C103 C104 C105 C106			CE04KW1H010M CE04KW03331M CE04KW1A101M CE04KW1C471M CE04KW1V101M	ELECTRO 1.0UF 50WV ELECTRO 330UF 6.3WV ELECTRO 100UF 10WV ELECTRO 470UF 16WV ELECTRO 100UF 35WV		
C107,108 C115-118 C119,120 C121,122 C123,124			CE04KW1H3R3M CE04KW1C100M CK73GB1C104K CK73FB1C154K CK73FB1E683K	ELECTRO 3.3UF 50WV ELECTRO 10UF 16WV CHIP C 0.10UF K CHIP C 0.15UF K CHIP C 0.068UF K		
C125,126 C127,128 C129,130 C131,132 C133,134			CK73GB1A154K CK73GB1C563K CK73GB1H122K CE04KW1H2R2M CC73GCH1H100D	CHIP C 0.15UF K CHIP C 0.056UF K CHIP C 1200PF K ELECTRO 2.2UF 50WV CHIP C 10PF D		
C135,136 C137-140 C149 C150 C151			CE04KW1H010M CC73GCH1H221J CC73GCH1H100D CK73GB1C104K CK73GB1H102K	ELECTRO 1.0UF 50WV CHIP C 220PF J CHIP C 10PF D CHIP C 0.10UF K CHIP C 1000PF K		
C152 C153 C154 C155 C156			CK73GB1C104K CC73GCH1H220J CC73GCH1H180J CK73GB1H103K CK73GB1C104K	CHIP C 0.10UF K CHIP C 22PF J CHIP C 18PF J CHIP C 0.010UF K CHIP C 0.10UF K		
C157,158 C159,160 C161-164 C165,166 C167,168			CE04KW1C100M CK73GB1H681K CC73GCH1H221J CE04KW1H3R3M CK73GB1H103K	ELECTRO 10UF 16WV CHIP C 680PF K CHIP C 220PF J ELECTRO 3.3UF 50WV CHIP C 0.010UF K		
C169,170 C171,172 C173,174 C175 C176			CE04KW1A221M CE04KW1H010M CE04KW1H3R3M CE04KW1A101M CE04KW1E101M	ELECTRO 220UF 10WV ELECTRO 1.0UF 50WV ELECTRO 3.3UF 50WV ELECTRO 100UF 10WV ELECTRO 100UF 25WV		
C177 C178 C179,180 C181 C182-184			CK73GB1H103K CC73GCH1H080D CK73GB1H472K CK73GB1H103K CE04KW1C100M	CHIP C 0.010UF K CHIP C 8.0PF D CHIP C 4700PF K CHIP C 0.010UF K ELECTRO 10UF 16WV		

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C185			CK73FF1C105Z	CHIP C 1.0UF	Z	
C186			CQ93HP2A103J	MYLAR 0.010UF	J	
C187			CE04KW1C220M	ELECTRO 22UF	16WV	
C189,190			CE04KW1H3R3M	ELECTRO 3.3UF	50WV	
C191,192			CC73GCH1H821J	CHIP C 820PF	J	
Δ C193-196			CE04KW1H3R3M	ELECTRO 3.3UF	50WV	
C197			CE04KW1E101M	ELECTRO 100UF	25WV	
C198			CK73GB1C104K	CHIP C 0.10UF	K	
C199			CE04KW1A101M	ELECTRO 100UF	10WV	
C200			CC73GCH1H101J	CHIP C 100PF	J	
C201			CE04KW1A101M	ELECTRO 100UF	10WV	
C202			CK73GB1H103K	CHIP C 0.010UF	K	
C203			CE04KW1A471M	ELECTRO 470UF	10WV	
C204			CC73FCH1H680J	CHIP C 68PF	J	
C205			CK73GB1C104K	CHIP C 0.10UF	K	
C206			CE04KW1A101M	ELECTRO 100UF	10WV	
C212			CE04KW1A470M	ELECTRO 47UF	10WV	TEHH1
C213			CK73GB1H103K	CHIP C 0.010UF	K	TEHH1
C214			CC73GCH1H220J	CHIP C 22PF	J	TEHH1
C215			CC73GCH1H470J	CHIP C 47PF	J	TEHH1
C216			CC73GCH1H561J	CHIP C 560PF	J	TEHH1
C217			CK73GB1H103K	CHIP C 0.010UF	K	TEHH1
C218			CC73GCH1H331J	CHIP C 330PF	J	TEHH1
C219			CE04KW1H2R2M	ELECTRO 2.2UF	50WV	TEHH1
C220			CC73GCH1H101J	CHIP C 100PF	J	TEHH1
C222			CE04KW1A101M	ELECTRO 100UF	10WV	
C225,226			CC73GCH1H080D	CHIP C 8.0PF	D	
C229,230			CC73GCH1H101J	CHIP C 100PF	J	
C231			CE04KW1C471M	ELECTRO 470UF	16WV	
C232			CC73GCH1H470J	CHIP C 47PF	J	
C233			CK73GB1C104K	CHIP C 0.10UF	K	
C234			CE04KW1C331M	ELECTRO 330UF	16WV	
C235			CE04KW1E331M	ELECTRO 330UF	25WV	
C240			CK73GB1H103K	CHIP C 0.010UF	K	
C241,242			CC73GCH1H101J	CHIP C 100PF	J	
C243			CC73GCH1H220J	CHIP C 22PF	J	
C245			CK73GB1H103K	CHIP C 0.010UF	K	
C248			CK73GB1H102K	CHIP C 1000PF	K	
C249			CC73GCH1H101J	CHIP C 100PF	J	
C250			CK73GB1H103K	CHIP C 0.010UF	K	
C251			CC73GCH1H470J	CHIP C 47PF	J	
C252			CC73GCH1H220J	CHIP C 22PF	J	
C253			CC73GCH1H100D	CHIP C 10PF	D	
C254			CK73GB1H103K	CHIP C 0.010UF	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		
CN104			E40-8307-05	FLAT CABLE CONNECTOR		
CN105			E40-3248-05	PIN ASSY		

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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		
Δ F1			F05-8013-05	FUSE (SEMKO) (250V T800MAL)	MM1	
Δ F2			F05-8013-05	FUSE (SEMKO) (250V T800MAL)		
CN95,96			J13-0075-05	FUSE CLIP		
CN97,98			J13-0075-05	FUSE CLIP	MM1	
E100			J11-0809-05	WIRE CLAMPER		
L101,102			L40-1035-29	SMALL FIXED INDUCTOR(10MH, J)		
L103			L32-0592-05	BIAS OSCILLATING COIL		
L104			L40-1001-17	SMALL FIXED INDUCTOR(10UH,K)		
L105,106			L92-0089-05	CHIP FERRITE		
L107			L92-0089-05	CHIP FERRITE		
Δ L108			L92-0017-05	FERRITE CORE	MM1	
Δ T91		*	L07-2758-05	POWER TRANSFORMER	XTEHH1	
T91			L07-2897-08	POWER TRANSFORMER		
X101			L78-0294-05	RESONATOR (10.000M)		
X102			L77-2173-05	CRYSTAL RESONATOR(32.768KHZ)		
X103			L77-2002-05	CRYSTAL RESONATOR(4.332MHZ)	TEHH1	
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	
Δ 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	

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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		
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		
R98			RS14KB3A101J	FL-PROOF RS 100 J 1W	XTEHH1	
R98			RS14KB3A560J	FL-PROOF RS 56 J 1W	MM1	
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		
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		
R160			RD14GB2E100J	FL-PROOF RD 10 J 1/4W		
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		
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		

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
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		
R187,188			RK73GB1J332J	CHIP R 3.3K J 1/16W		
R189,190			RK73GB1J912J	CHIP R 9.1K J 1/16W		
R191,192			RK73GB1J223J	CHIP R 22K J 1/16W		
R193,194			RK73GB1J103J	CHIP R 10K J 1/16W		
R195,196			RK73GB1J104J	CHIP R 100K J 1/16W		
R197			RK73GB1J100J	CHIP R 10 J 1/16W		
R198			RK73GB1J471J	CHIP R 470 J 1/16W		
R199			RK73GB1J473J	CHIP R 47K J 1/16W		
R200			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R201,202			RK73GB1J101J	CHIP R 100 J 1/16W		
R203,204			RK73GB1J104J	CHIP R 100K J 1/16W		
R205			RK73GB1J100J	CHIP R 10 J 1/16W		
R208			RK73GB1J363J	CHIP R 36K J 1/16W		
R209			RK73GB1J473J	CHIP R 47K J 1/16W		
R213			RK73GB1J222J	CHIP R 2.2K J 1/16W	TEHH1	
R214			RK73GB1J101J	CHIP R 100 J 1/16W	TEHH1	
R215			RK73GB1J473J	CHIP R 47K J 1/16W	TEHH1	
R216			RK73GB1J101J	CHIP R 100 J 1/16W	TEHH1	
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	TEHH1	
R227			RD14BB2E2R2J	RD 2.2 J 1/4W		
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		
R236			RK73GB1J103J	CHIP R 10K J 1/16W		
R237			RK73GB1J101J	CHIP R 100 J 1/16W		
R238			RK73GB1J561J	CHIP R 560 J 1/16W		
R239,240			RK73GB1J101J	CHIP R 100 J 1/16W		
R241,242			RK73GB1J162J	CHIP R 1.6K J 1/16W		
R243,244			RK73GB1J332J	CHIP R 3.3K 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		
R265			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R266			RS14KB3A1R0J	FL-PROOF RS 1 J 1W		
R267			RK73GB1J473J	CHIP R 47K J 1/16W		
R268-279			RK73GB1J101J	CHIP R 100 J 1/16W		
R280-282			RK73GB1J473J	CHIP R 47K J 1/16W		

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PARTS LIST

RXD-M32MD

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R283,284 R285 R286,287 R288 R289			RK73GB1J332J RK73GB1J162J RK73GB1J101J RK73GB1J162J RK73GB1J101J	CHIP R 3.3K J 1/16W CHIP R 1.6K J 1/16W CHIP R 100 J 1/16W CHIP R 1.6K J 1/16W CHIP R 100 J 1/16W		
R290 R291 R292 R292 R292			RK73GB1J271J RK73GB1J104J RK73GB1J104J RK73GB1J123J RK73GB1J473J	CHIP R 270 J 1/16W CHIP R 100K J 1/16W CHIP R 100K J 1/16W CHIP R 12K J 1/16W CHIP R 47K J 1/16W	MM1 XTEHH1 X	
R293 R294-296 R297,298 R299 R300			RK73GB1J511J RK73GB1J103J RK73GB1J153J RK73GB1J101J RD14GB2E5R6J	CHIP R 510 J 1/16W CHIP R 10K J 1/16W CHIP R 15K J 1/16W CHIP R 100 J 1/16W FL-PROOF RD 5.6 J 1/4W		
R301,302 R303 R305,306 R307,308 VR101,102			RK73GB1J123J RK73GB1J102J RK73GB1J133J RK73GB1J182J R32-0041-05	CHIP R 12K J 1/16W CHIP R 1.0K J 1/16W CHIP R 13K J 1/16W CHIP R 1.8K J 1/16W SEMI FIXED VARIABLE RESISTOR		
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 R92-0670-05	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		

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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 D97 ,98 D99 D101			MA111 MA111 MA111 MA111 1SS402	DIODE DIODE DIODE DIODE DIODE	XTEHH1 MM1	
D102 D102 D103 D103 D105			HSS104A 1SS133 MTZJ5.6(B) RD5.6ES(B2) MTZJ5.6(B)	DIODE DIODE ZENER DIODE ZENER DIODE ZENER DIODE		
D105 D106,107 D106,107 D108 D108			RD5.6ES(B2) HSS104A 1SS133 MTZJ5.1(B) RD5.1ES(B2)	ZENER DIODE DIODE DIODE ZENER DIODE ZENER DIODE		
D109 D109 D110 D111 D111			MTZJ6.8(B) RD6.8ES(B2) MA111 HSS104A 1SS133	ZENER DIODE ZENER DIODE DIODE DIODE DIODE		
D114 D114 D115 D116 D116			HSS104A 1SS133 MA111 MTZJ5.6(B) RD5.6ES(B2)	DIODE DIODE DIODE ZENER DIODE ZENER DIODE		
IC1 IC2 IC91 IC92 IC101			* LM4766T TA7812S XC62HR5102P * NJM2930F05 S-80840ANY	ANALOGUE IC ANALOGUE IC ANALOGUE IC ANALOGUE IC ANALOGUE IC	MM1	
IC103 IC104 IC105 IC106 IC107			TA8409S M30624MG-307FP * M62498AFP HA12219NT BA3126N	MOS-IC MI-COM IC ANALOGUE IC ANALOGUE IC ANALOGUE IC		
IC108 IC109 IC110 IC110 IC110			TC74HCT7007AF NJM4565D BA05T BA17805T LM2940CT-5.0	MOS-IC ANALOGUE IC ANALOGUE IC ANALOGUE IC ANALOGUE IC		
IC110 IC110 IC111 IC112 IC114			TA7805S UPC7805AHF TA8409S L89M33T SAA6579T/R	ANALOGUE IC ANALOGUE IC MOS-IC ANALOGUE IC ANALOGUE IC	TEHH1	
Q1 ,2 Q3 -5 Q7 Q8 Q9			* 2SC2878(B) 2SC2362(G,H) 2SA933AS(Q,R) * 2SA1016(G,H) 2SC4081(R,S)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		

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Q9			2SC4116(Y,GR)	TRANSISTOR		
Q10			2SD2012	TRANSISTOR		
Q10			2SD2061	TRANSISTOR		
Q11 ,12		*	2SC2362(G,H)	TRANSISTOR		
Q13		*	2SA1016(G,H)	TRANSISTOR		
Q21			2SB1640	TRANSISTOR		
Q91		*	2SC2362(G,H)	TRANSISTOR		
Q92		*	2SA1016(G,H)	TRANSISTOR		
Q101			2SC2458(Y,GR)	TRANSISTOR		
Q101			2SC2785(F,E)	TRANSISTOR		
Q102			2SC2003(L,K)	TRANSISTOR		
Q103			2SB764(E,F)	TRANSISTOR		
Q104			2SA1286-T11	TRANSISTOR		
Q105,106			DTC124ESA	DIGITAL TRANSISTOR		
Q105,106			UN4212	DIGITAL TRANSISTOR		
Q107			2SC2458(Y,GR)	TRANSISTOR		
Q107			2SC2785(F,E)	TRANSISTOR		
Q108			2SC4081(R,S)	TRANSISTOR		
Q108			2SC4116(Y,GR)	TRANSISTOR		
Q109			2SD863(E,F)	TRANSISTOR		
Q110			DTA124ESA	DIGITAL TRANSISTOR		
Q110			UN4112	DIGITAL TRANSISTOR		
Q111,112			DTC124ESA	DIGITAL TRANSISTOR		
Q111,112			UN4212	DIGITAL TRANSISTOR		
Q113			DTA124ESA	DIGITAL TRANSISTOR		
Q113			UN4112	DIGITAL TRANSISTOR		
Q114			DTC124ESA	DIGITAL TRANSISTOR		
Q114			UN4212	DIGITAL TRANSISTOR		
Q117			2SC2003(L,K)	TRANSISTOR		
Q118			2SA1286-T11	TRANSISTOR		
Q119			DTC124ESA	DIGITAL TRANSISTOR		
Q119			UN4212	DIGITAL TRANSISTOR		
Q120			2SC3246	TRANSISTOR		
CD PLAYER UNIT (X32-3810-00)						
C1 ,2			C92-0084-05	CHIP C	100UF	4WV
C3			CC73GCH1H150J	CHIP C	15PF	J
C4			CC73GCH1H100D	CHIP C	10PF	D
C5			C92-0084-05	CHIP C	100UF	4WV
C6			C92-0044-05	CHIP-ELE	47UF	10WV
C7			CK73FB1C104K	CHIP C	0.10UF	K
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

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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
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)		
L3		*	L33-0591-05	SMALL FIXED INDUCTOR		
L4			L40-1001-31	SMALL FIXED INDUCTOR (10UH,K)		
L5			L92-0308-05	FERRITTE CORE		
X1		*	L77-2295-05	CRYSTAL RESONATOR (33.8688MHZ)		
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
R22			RK73GB1J224J	CHIP R	220K	J 1/16W
R23			RK73GB1J154J	CHIP R	150K	J 1/16W
R24			RK73GB1J133J	CHIP R	13K	J 1/16W
R25			RK73GB1J225J	CHIP R	2.2M	J 1/16W
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
R37 ,38			RK73GB1J221J	CHIP R	220	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

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R60 R61 ,62 R63 R65 ,66 R67 ,68			RK73GB1J101J RK73GB1J2R2J RK73GB1J473J RK73GB1J104J RK73GB1J101J	CHIP R 100 J 1/16W CHIP R 2.2 J 1/16W CHIP R 47K J 1/16W CHIP R 100K J 1/16W CHIP R 100 J 1/16W		
VR1 W1			R32-0018-05 R92-0679-05	SEMI FIXED VARIABLE RESISTOR CHIP R 0 OHM		
D1 ,2 IC1 IC2 IC3 IC4		*	MA111 CXA1821M BA5974FP CXD3017Q HD74UH08	DIODE ANALOGUE IC ANALOGUE IC MOS-IC MOS-IC		
Q1 Q2 Q3 Q4 -6		*	2SA1576A(R,S) DTA124EUA UN5112 2SC4213(B) 2SK1580	TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR FET		
Q4 -6			2SK1958	FET		
MD UNIT						
C1100 C1101 C1102 C1103 C1104			C92-0171-08 C93-0033-08 CK73FF1C105Z CK73FB1H273K CK73FB1H333K	CHIP-C 4.7UF K CERAMIC 1UF K CHIP C 1.0UF Z CHIP C 0.027UF K CHIP C 0.033UF K		
C1105 C1106 C1107 C1108 C1109			CK73GB1H332K C93-0033-08 CK73GB1C333K CK73FB1C474K C93-0033-08	CHIP C 3300PF K CERAMIC 1UF K CHIP C 0.033UF K CHIP C 0.47UF K CERAMIC 1UF K		
C1110 C1111 C1112 C1113-117 C1118			CK73FB1H472K CK73FB1C474K C93-0044-08 C93-0034-08 CK73FF1C105Z	CHIP C 4700PF K CHIP C 0.47UF K CERAMIC 330PF J CERAMIC 270PF J CHIP C 1.0UF Z		
C1119 C1200 C1201 C1202,203 C1204			C93-0033-08 CK73FF1C105Z C92-0172-08 CK73FF1C105Z CK73GB1C473K	CERAMIC 1UF K CHIP C 1.0UF Z CHIP-C 10UF K CHIP C 1.0UF Z CHIP C 0.047UF K		
C1205 C1206 C1207 C1208,209 C1210			CK73FF1C105Z CK73GB1H122K CK73FF1C105Z CC73GCH1H120J CC73GCH1H220J	CHIP C 1.0UF Z CHIP C 1200PF K CHIP C 1.0UF Z CHIP C 12PF J CHIP C 22PF J		
C1300 C1301 C1302 C1303 C1304			CC73FCH1H470J CK73GB1C273K C92-0172-08 CK73FF1C105Z CC73FCH1H221J	CHIP C 47PF J CHIP C 0.027UF K CHIP-C 10UF K CHIP C 1.0UF Z CHIP C 220PF J		
C1402 C1403 C1404 C1405,406 C1407			CK73GB1C223K CK73GF1E104Z CK73GB1C473K CK73GB1H681K CK73GB1C473K	CHIP C 0.022UF K CHIP C 0.10UF Z CHIP C 0.047UF K CHIP C 680PF K CHIP C 0.047UF K		

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C1409 C1411 C1501 C1502 C1503			CK73FF1C105Z CK73GB1C223K CK73FF1C105Z C93-0044-08 CK73EB1C334K	CHIP C 1.0UF Z CHIP C 0.022UF K CHIP C 1.0UF Z CERAMIC 330PF J CHIP C 0.33UF K		
C1505 C1506 C1507 C1509 C1601-604			CK73GB1C473K CC73GCH1H101J CK73GB1C473K CC73GCH1H101J CC73GSL1H821J	CHIP C 0.047UF K CHIP C 100PF J CHIP C 0.047UF K CHIP C 100PF J CHIP C 820PF J		
C1606 C1607 C1610 C1611,612 C1613			C92-0172-08 CK73FF1C105Z C92-0171-08 CK73GB1H562K CK73GB1E153K	CHIP-C 10UF K CHIP C 1.0UF Z CHIP-C 4.7UF K CHIP C 5600PF K CHIP C 0.015UF K		
C1615 C1616 C1619 C1655 C1700,701			CK73GB1E153K C92-0151-08 C93-0044-08 CK73GB1E153K C92-0162-08	CHIP C 0.015UF K ELECTRO 100UF 10WV CERAMIC 330PF J CHIP C 0.015UF K ELECTRO 47UF 4WV		
C1702 C1703 C1704 C1705 C1706			CK73GB1H102K CK73GF1E104Z C92-0162-08 CK73GF1E104Z CK73FF1H103Z	CHIP C 1000PF K CHIP C 0.10UF Z ELECTRO 47UF 4WV CHIP C 0.10UF Z CHIP C 0.010UF Z		
C1707 C1708,709 C1710 C1711 C1712			CK73FF1C105Z CK73FF1H103Z C92-0173-08 C92-0162-08 C92-0173-08	CHIP C 1.0UF Z CHIP C 0.010UF Z ELECTRO 10UF 16WV ELECTRO 47UF 4WV ELECTRO 10UF 16WV		
C1713 C1714 C1715 C1716 C1741			CK73FF1H103Z CK73FF1C105Z CK73FB1C104K C92-0162-08 CC73GSL1H821J	CHIP C 0.010UF Z CHIP C 1.0UF Z CHIP C 0.10UF K ELECTRO 47UF 4WV CHIP C 820PF J		
C1750 C1800 C1801,802 C1803 C1804			CC73GSL1H821J C92-0174-08 C92-0172-08 C92-0151-08 CK73EF1C225Z	CHIP C 820PF J ELECTRO 220UF 4WV CHIP-C 10UF K ELECTRO 100UF 10WV CHIP C 2.2UF Z		
C1805			CK73FF1C105Z	CHIP C 1.0UF Z		
CN1101 CN1300 CN1401 CN1402 CN1501		*	E40-8618-08 E40-8619-08 E40-8211-08 E40-8620-08 E40-8371-08	FLAT CABLE CONNECTOR,28P PIN ASSY 2P FLAT CABLE CONNECTOR,5P FLAT CABLE CONNECTOR,6P FLAT CABLE CONNECTOR,28P		
CN1502 CN1931 CN1932		*	E40-8641-08 E40-8211-08 E40-8617-08	PIN ASSY FLAT CABLE CONNECTOR FLAT CABLE CONNECTOR		
PCB-E	3C	*	J70-1449-08	PC BOARD		
L1100 L1101 L1200			L90-0100-08 L90-0099-08 L90-0301-08	COIL COIL COIL		

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
L1201 L1300 L1501 L1502 L1551,552			L90-0100-08 L90-0322-08 L90-0303-08 L90-0301-08 L90-0100-08	COIL COIL COIL COIL COIL		
L1553 L1554 L1600 L1701,702 LX1201			R92-1824-08 L90-0100-08 L90-0303-08 L90-0099-08 L77-2224-08	COIL COIL COIL COIL CRYSTAL RESONATOR		
R1100 R1101 R1102 R1103 R1105			RK73EB2B270J RK73GB1J1R0J RK73GB1J103J RK73GB1J394J RK73GB1J122J	CHIP R 27 J 1/8W CHIP R 1 J 1/16W CHIP R 10K J 1/16W CHIP R 390K J 1/16W CHIP R 1.2K J 1/16W		
R1106 R1107 R1108-112 R1200,201 R1202,203			RK73GB1J563J RK73GB1J561J RK73GB1J223J R92-1947-08 R92-1948-08	CHIP R 56K J 1/16W CHIP R 560 J 1/16W CHIP R 22K J 1/16W CHIP R 100K F 1/16W CHIP R 120K F 1/16W		
R1204,205 R1206,207 R1208 R1209 R1210,211			RK73GB1J823J RK73GB1J623J RK73GB1J221J RK73GB1J101J RK73GB1J221J	CHIP R 82K J 1/16W CHIP R 62K J 1/16W CHIP R 220 J 1/16W CHIP R 100 J 1/16W CHIP R 220 J 1/16W		
R1212 R1214 R1215 R1217 R1230			RK73GB1J470J RK73GB1J103J RK73GB1J105J RK73GB1J151J R92-1823-08	CHIP R 47 J 1/16W CHIP R 10K J 1/16W CHIP R 1.0M J 1/16W CHIP R 150 J 1/16W JUMPER R 0 J 1/16W		
R1300 R1301 R1304 R1401 R1403			RK73FB2A8R2J RK73GB1J100J RK73FB2A151J RK73GB1J272J RK73GB1J471J	CHIP R 8.2 J 1/10W CHIP R 10 J 1/16W CHIP R 150 J 1/10W CHIP R 2.7K J 1/16W CHIP R 470 J 1/16W		
R1405 R1406 R1407,408 R1409 R1414			RK73GB1J104J RK73GB1J103J RK73GB1J332J R92-1823-08 RK73GB1J224J	CHIP R 100K J 1/16W CHIP R 10K J 1/16W CHIP R 3.3K J 1/16W JUMPER R 0 J 1/16W CHIP R 220K J 1/16W		
R1415 R1417,418 R1420 R1424 R1430			RK73GB1J102J RK73GB1J102J RK73GB1J102J RK73GB1J473J RK73GB1J103J	CHIP R 1.0K J 1/16W CHIP R 1.0K J 1/16W CHIP R 1.0K J 1/16W CHIP R 47K J 1/16W CHIP R 10K J 1/16W		
R1435 R1440 R1441 R1443 R1444			RK73GB1J103J RK73GB1J101J RK73GB1J473J RK73GB1J102J RK73GB1J103J	CHIP R 10K J 1/16W CHIP R 100 J 1/16W CHIP R 47K J 1/16W CHIP R 1.0K J 1/16W CHIP R 10K J 1/16W		
R1460,461 R1462 R1463 R1510 R1511			RK73GB1J103J R92-1823-08 RK73GB1J103J RK73GB1J102J RK73GB1J822J	CHIP R 10K J 1/16W JUMPER R 0 J 1/16W CHIP R 10K J 1/16W CHIP R 1.0K J 1/16W CHIP R 8.2K J 1/16W		

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R1512 R1513 R1515,516 R1517,518 R1520			RK73FB2A470J RK73GB1J822J RK73GB1J182J RK73GB1J470J RK73GB1J473J	CHIP R 47 J 1/10W CHIP R 8.2K J 1/16W CHIP R 1.8K J 1/16W CHIP R 47 J 1/16W CHIP R 47K J 1/16W		
R1521 R1523 R1524,525 R1526 R1527			RK73GB1J121J RK73GB1J473J R92-1824-08 RK73GB1J682J RK73GB1J473J	CHIP R 120 J 1/16W CHIP R 47K J 1/16W JUMPER R 0 J 1/10W CHIP R 6.8K J 1/16W CHIP R 47K J 1/16W		
R1528 R1529 R1530 R1532 R1533-536			R92-1824-08 RK73GB1J221J R92-1823-08 RK73GB1J332J RK73GB1J102J	JUMPER R 0 J 1/10W CHIP R 220 J 1/16W JUMPER R 0 J 1/16W CHIP R 3.3K J 1/16W CHIP R 1.0K J 1/16W		
R1537,538 R1539 R1540 R1551-553 R1600,601			RK73GB1J221J RK73GB1J121J R92-1824-08 R92-1823-08 RK73GB1J682J	CHIP R 220 J 1/16W CHIP R 120 J 1/16W JUMPER R 0 J 1/10W JUMPER R 0 J 1/16W CHIP R 6.8K J 1/16W		
R1605,606 R1612 R1614 R1616,617 R1618			R92-1949-08 R92-1950-08 R92-1947-08 RK73GB1J103J RK73GB1J153J	CHIP R 10K F 1/16W CHIP R 150K F 1/16W CHIP R 100K F 1/16W CHIP R 10K J 1/16W CHIP R 15K J 1/16W		
R1620 R1621 R1622,623 R1624 R1701			RK73GB1J153J RK73GB1J682J RK73GB1J223J RK73GB1J682J RK73GB1J393J	CHIP R 15K J 1/16W CHIP R 6.8K J 1/16W CHIP R 22K J 1/16W CHIP R 6.8K J 1/16W CHIP R 39K J 1/16W		
R1702 R1703 R1704 R1705 R1706			RK73GB1J303J R92-1951-08 RK73GB1J332J RK73GB1J821J RK73GB1J393J	CHIP R 30K J 1/16W CHIP R 1K F 1/16W CHIP R 3.3K J 1/16W CHIP R 820 J 1/16W CHIP R 39K J 1/16W		
R1707 R1708 R1709 R1710 R1711			RK73GB1J105J RK73GB1J102J RK73GB1J393J RK73GB1J684J RK73FB2A120J	CHIP R 1.0M J 1/16W CHIP R 1.0K J 1/16W CHIP R 39K J 1/16W CHIP R 680K J 1/16W CHIP R 12 J 1/10W		
R1712 R1714 R1716 R1801 R1802			RK73GB1J273J RK73FB2A120J RK73GB1J104J RK73GB1J271J R92-1952-08	CHIP R 27K J 1/16W CHIP R 12 J 1/10W CHIP R 100K J 1/16W CHIP R 270 J 1/16W CHIP R 56K F 1/16W		
R1803 R1804 R1805 R1806 R1807			R92-1953-08 RK73GB1J391J RK73GB1J271J RK73EB2B1R0J RK73GB1J273J	CHIP R 33K F 1/16W CHIP R 390 J 1/16W CHIP R 270 J 1/16W CHIP R 1 J 1/8W CHIP R 27K J 1/16W		
R1808 R1809 R1811 R1930 R1931			RK73GB1J182J RK73EB2B1R0J RK73EB2B1R0J RK73FB2A391J RK73FB2A561J	CHIP R 1.8K J 1/16W CHIP R 1 J 1/8W CHIP R 1 J 1/8W CHIP R 390 J 1/10W CHIP R 560 J 1/10W		

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R1932 R1933			RK73FB2A121J RK73FB2A271J	CHIP R 120 J 1/10W CHIP R 270 J 1/10W		
SW1930 SW1931 SW1932-34 SW1936		*	S68-0126-08 S68-0127-08 S64-0049-08 S64-0050-08	PUSH SWITCH PUSH SWITCH LEVER SWITCH LEVER SWITCH		
D1300 D1401 D1402 IC1101 IC1201			SBE803 SB00703Q 1SS355 IR3R55 LR376484F	DIODE DIODE DIODE IC IC		
IC1202 IC1300 IC1301 IC1302 IC1401			IX2474AF 74ACT02T FTD2005 CPH5608 IX0342AW	IC IC IC IC IC		
IC1402 IC1601 IC1701 IC1702 IC1801		*	58X2402T M56788F UDA1347T NJM431U XC62EP32	IC IC IC IC(REGULATOR) IC		
Q1402 Q1403 Q1501 Q1700 Q1701		*	UN2113 UN2213 UN2214 U2SD601AR UN2213	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q1702 Q1800 Q1801 Q1802 Q1803		*	2SA1162G UN2214 2SA1162G UN2214 UN221N	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q1804 Q1805 Q1806		*	2SA1242Y 2SA1314C UN221N	TRANSISTOR TRANSISTOR TRANSISTOR		
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 BOARD)5P		
20	3A		G01-3969-08	SPRING (S) COMPRESSION		
25	3A		J02-1179-08	PUBBER VIBRATION		
26	3A		J02-1180-08	PUBBER VIBRATION		
27	1A		J19-5768-08	HOLDER (MG)(K) ASSY		
28	2A		J19-5769-08	HOLDER (BU) ASSY		

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* New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.
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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
29 30 31	2B 3A 2A		J70-0995-08 J90-0846-08 J99-0592-08	PC BOARD LOADING RING (LO)(S) CENTER TABLE DISK		
AB AF	3A 2A		N09-3345-08 N87-3010-46	SCREW (2.6X16) SCREW TAPPING (3X10)		
40	2B		S74-0075-08	SWITCH LEAF		
DM FM LM PU	3A 3A 2B 3B		T42-0907-08 T42-0875-08 T42-0873-08 T25-0061-08	MOTOR CHASSIS ASSY(MB) MOTOR GEAR ASSY(MB) MOTOR ASSY LOADING PICKUP ASSY KSS-213C(R)		
MD MECHANISM (D40-1677-05) MDM-99D						
202 203 204 205 207	2C 2D 1C 1C 1C	*	A10-3517-08 A11-1179-08 J19-6075-08 D10-3941-08 D10-3942-08	LD BASE LCHSM0089AWZZ MD BASE LCHSM0090AWZZ CRTRGE HLDR ASSY,LHLDX3007AWM1 SLIDER LVR ASSY,MLEVF0051AWM1 HOLDER ARM MLEVFO046AWFW		
208 209 210 212 214	2C 2D 1C 1C 3D	*	D10-3943-08 D10-3944-08 D10-3945-08 G01-4200-08 G02-1703-08	SWITCH PLATE MLEVFO047AWFW H/A SHIFT ARM MLEVFO048AWFW CAM PLATE LEVER,MLEVP0095AWZZ LOADING SPRING MSPRD0132AWFJ GRIP SPRING MSPRP0030AWFJ		
215 216 217 218 219	3C 1C 2C 1C 1C	*	G02-1704-08 G01-4201-08 G01-4202-08 D13-1992-08 D13-1993-08	SHAFT SPRING MSPRP0031AWFJ LOADING ARM SP,MSPRT0031AWFJ SHIFT ARM SP MSPRT0032AWFJ LOADING GEAR(A) NGERH0085AWZZ MID GEAR(A) NGERH0086AWZZ		
220 221 222 224 227	1C 1C 2C 3D 3D	*	D13-1994-08 D13-1995-08 D13-1996-08 D13-1997-08 D19-0322-08	MID GEAR(B) NGERH0087AWZZ MID GEAR(C) NGERH0088AWZZ MID GEAR(D) NGERH0089AWZZ GRIP RACK NGERR0004AWZZ DRIVE SCREW ASSY,NSFT0006AWM1		
228 230 231 232 233	3D 1D 2D 3D 1D	*	D10-3946-08 A01-3756-08 A01-3757-08 A01-3758-08 J02-1478-08	PICKUP GUDE SHFT,NSFTM0019AWFW SHIELD CVR(TOP),PCOV3029AWFW SHIELD CVR(SIDE),PCOV3033AWFW SHIELD CVR(BTM),PCOV3031AWFW CUSHION PCUSG0045AWZZ		
236 BA BB BC BD	1C	*	G01-4203-08 N39-1415-45 N38-2020-41 N09-3434-08 N39-1750-45	GND SPRING MSPRT0034AWFJ SCREW(1.4X1.5) LX-BZ0040AWZZ SCREW(2X2) LX-BZ0046AWZZ SCREW(1.4X2.5) LX-BZ0800AFZZ SCREW(1.7X5) LX-BZ0883AFZZ		
BE BF BG BH BJ		*	N09-5197-08 N09-5198-08 N39-1445-45 N09-5199-08 N09-5200-08	SCREW(1.4X3) LX-JZ0020AWZZ SCREW(1.7X6) LX-JZ0022AWZZ SCREW(1.4X4.5) LX-JZ0024AWZZ SCREW(2X3) XBP3D20P03K00 SCREW(1.7X3) XSP3N17P03K00		
BK BL BM CN1300 CN1931		*	N16-0014-46 N39-1730-45 N39-1450-45 E35-2588-08 E40-8211-08	WASHER(1.5X3.2X0.5)XWSSD14-05000 SCREW(1.7X3) LX-BZ0846AFZZ SCREW(1.4X5) LX-JB0025AWZZ WIRE HARNESS QCNCWM1044AWZZ CABLE CONN(5P) QCNCWXC05AFZZ		
CN1932 CW1501		*	E40-8617-08 E35-2587-08	CABLE CONN(6P) QCNCWXC06AFZZ FFC(28P) QCNCWN1549AWZZ		

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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-M32MD-L	L	X	-	-	-	-	-	H	-
RXD-M32MD-S	S	-	-	-	T	E	-	H	-
RXD-M32MD-Y	Y	-	-	-	-	-	-	H1	-
RXD-M32MD-LS	LS	X	-	-	-	-	-	H	-
MODEL	ABB.	Mexico	PX/AAFES	Russia	Scandinavia	Shanghai	USA	Other area	
RXD-M32MD-L	L	-	-	-	-	-	-	M	-
RXD-M32MD-S	S	-	-	-	-	-	-	M	-
RXD-M32MD-Y	Y	-	-	-	-	-	-	M1	-
RXD-M32MD-LS	LS	-	-	-	-	-	-	M	-

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CW1502	3D	*	E35-2660-08	FFC(4P)	QCNWN1515AWZZ	
CW1931	2C,3C	*	E35-2589-08	FFC(5P)	QCNWN1512AWZZ	
CW1932	3C	*	E35-2590-08	FFC(6P)	QCNWN1513AWZZ	
M901	3C	*	T42-0974-08	DISC MOTOR	RMOTV0025AWZZ	
M902	3C	*	T42-0975-08	FEED MOTOR	92LMTR3167BASY	
M903	2D	*	T42-0976-08	LOADING MOTOR	92LMTR3167AASY	
MDPU	2D	*	T25-0099-08	PICKUP	RCTRH8198AFZZ	
MDRH	2D	*	T30-0025-08	RECORD HEAD	RCILH0113AFZZ	
PWB-F	2C,3C	*	J70-1414-08	PCB(MECHA)	QPWBF0554AWZZ	
SW1930	2C	*	S68-0126-08	PUSH SWITCH	QSW-P0011AWZZ	
SW1931	2C	*	S68-0127-08	PUSH SWITCH	QSW-P0012AWZZ	
SW1932-34	2C	*	S64-0049-08	PUSH SWITCH	QSW-M0007AWZZ	
SW1936	3C	*	S64-0050-08	PUSH SWITCH	QSW-M0157AFZZ	

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PARTS LIST

RXD-M32MD

RXD-M32MD

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 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

(For U.K. and Europe)

Tuning frequency range 531 kHz ~ 1,602 kHz

(For Australia)

Tuning frequency range 531 kHz ~ 1,602 kHz

(For other countries)

Tuning frequency range

9 kHz step 531 kHz ~ 1,602 kHz

10 kHz step 530 kHz ~ 1,610 kHz

[MD recorder section]

Laser Semiconductor laser

Recording method Field modulation overwrite method

D/A Conversion 1 Bit

Wow & flutter Less than unmeasurable limit

[CD player section]

Laser Semiconductor laser

D/A Conversion 1 Bit

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) 5.7 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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