MICRO HiFi COMPONENT SYSTEM

# RXD-M32

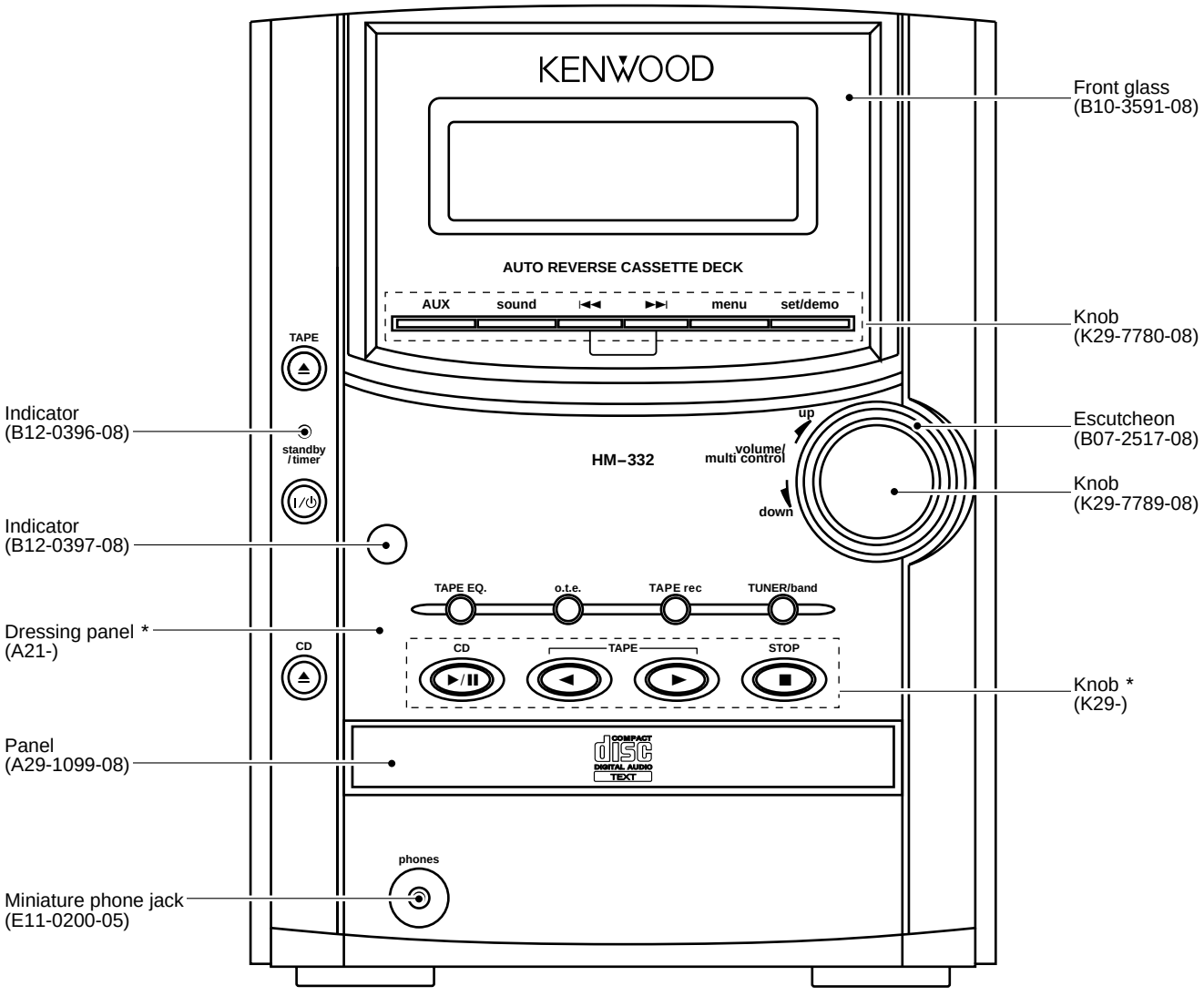
## SERVICE MANUAL

(HM-332)

KENWOOD



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




* **Refer to parts list on page39.**

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

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

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

70%

# CONTENTS / ACCESSORIES

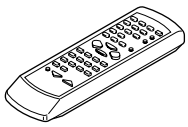
## Contents



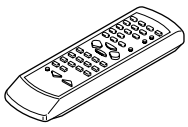
## Accessories

Remote control unit (1)

Europe and U.K

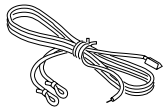


Other countries

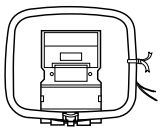


Battery cover(A09-1161-08)

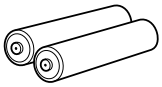
FM indoor antenna (1)
(T90-0861-05)



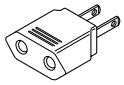
AM loop antenna (1)
(T90-0852-05)



Batteries (R6/AA) (2)



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



## System Configuration

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

## Remocon Configuration

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

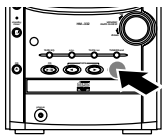
## Cautions

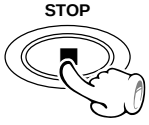
### *Operation to reset*

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

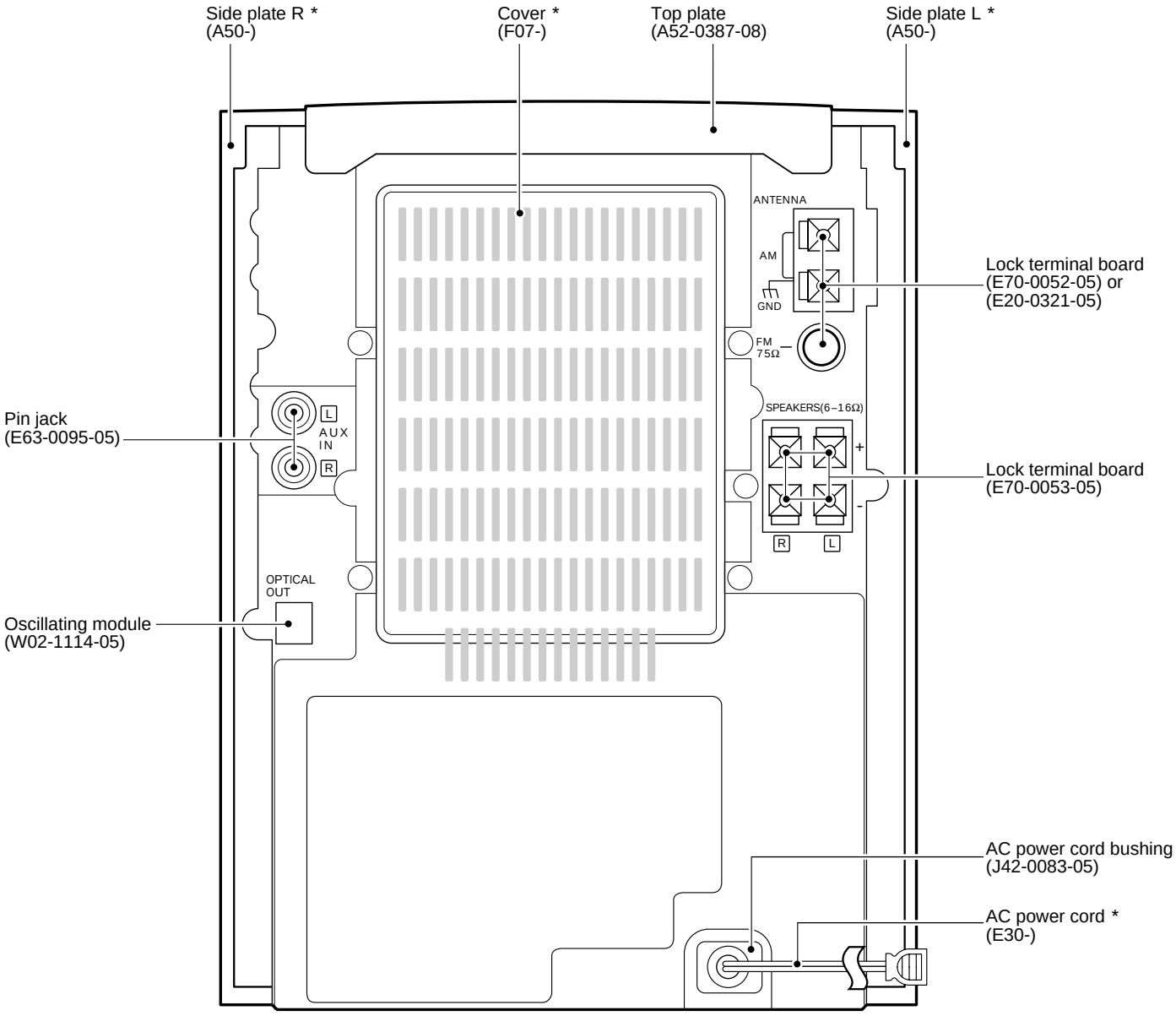
- Please note that resetting the microcomputer clears the contents stored in and it returns to condition when it left the factory.

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





# EXTERNAL VIEW



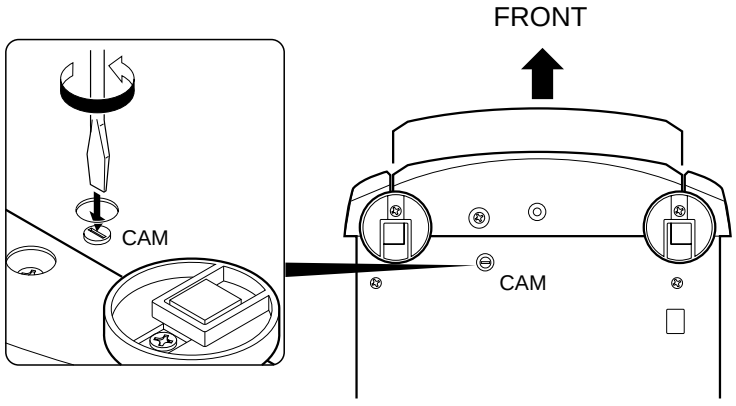

* **Refer to parts list on page39.**

# DISASSEMBLY FOR REPAIR

### How to open the tray if not comes out.

(1) From the bottom side of the CD mechanism, use a screw driver or the like to turn the cam slightly counterclockwise.

(2) Pull out the tray front wards by hand when the tray comes just out.



# CIRCUIT DESCRIPTION

## 1. Initialization

### 1-1 Setting of the Initial Conditions

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

### 1-2 Initializing Operation

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

### 1-3 Initial Items

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

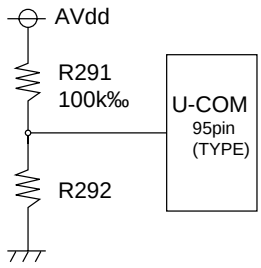
## 2. Destination List of Tuner

| 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 RDS | 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<br>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 ↑<br>MANUAL・MONO ↓ |
| MD REC<br>TAPE REC | Normal indication | TUNING DOWN<br>TUNING UP |
| SKIP DOWN<br>SKIP UP | Normal indication | P. ch DOWN<br>P. ch UP |

3-3-2 Aux Test Mode

| KEY | DISPLAY | OPERATION |
|---|---|---|
| SET/demo | Tone⌋ MAX⌋⌋⌋<br>Tone⌋ MAX⌋⌋⌋<br>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<br><br>(Change the mode 05 and 03 alternately by the stop key.) | 05 ✻✻ : ✻✻<br>(✻✻ : ✻✻) | <br>Tracking-servo on. |
| | 03 --:-- | Tracking-servo off. |
| CD STOP<br><br>(Cyclically changed in the stop mode only.) | 01 --:-- | STOP |
| | 07 ✻✻ / ✻✻<br>08 ✻✻ / ✻✻<br>09 ✻✻ / ✻✻<br>10 ✻✻ / ✻✻ | Adjustment value/mean value<br>TB value FB value<br>TG value FG value<br>FE value RF value<br>TE value VC value |
| MENU | HI-SPEED<br>NOR-SPEED | CD double speed operation<br>CD normal speed operation |
| SKIP UP | Ex.01~02 | CD track no. up. |
| TAPE REC | | CD FF search.<br>The pickup travels outward in the stop mode. |
| SKIP DOWN | Ex.02~01 | CD track no. down. |
| MD REC | | CD FB search.<br>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.<br>Start operation of all erase if disc is recordable. |

# CIRCUIT DESCRIPTION

## 4-2 MD SECTION

### 1. Preparation for Adjustment

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

### 1-1 Procedure

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

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

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

* Result of EEPROM

OK_EEPROM Write the data of setting values and AUTO-pre adjustment perfectly.

WR_EEPROM Write the data of setting values perfectly however not write AUTO pre-adjustment. Carry out AUTO-pre adjustment and write data to EEPROM.

NG_EEPROM Not write the data of setting values. Check the connection of MD microprocessor and EEPROM.

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

### 1-2 Test disc

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

### 2. Test Mode

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

Ⓐ MD TEST
↓ (Press STOP key)
Ⓑ tsm ○○○○e○○ ---- TEST MODE STOP STATE ○○represents version of MD microcomputer
↓ (MD DISC LOAD IN)
Ⓒ LOADING
↓
Ⓓ AUT YOBI

(When the STOP button is pressed in the Ⓓ state, the indication Ⓑ state is restored.
To restore Ⓓ state again, press the SKIP DOWN key once.

### Entering the specific mode

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

AUTO pre-adjustment (AUT YOBI) → AUTO adjustment (AUTO AJST) → AUT (AUT FAB) → RESULT SUB (RST YOBI) → RESULT (RESULT) → MANUAL pre-adjustment (MNU YOBI) → MANUAL adjustment (MNU AJST) → EEPROM setting (EEPROM SET) → AUTO pre-adjustment

# 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.)<br>• The adjustment value is output with the aid of system controller interface. |
| 2. AUTO adjustment mode | • Automatic adjustment is performed.<br>• The adjustment value is output with the aid of system controller interface.<br>• Continuous playback is performed. (Error rate indication, jump test) |
| 3. AUTO FOCUS BIAS adjustment | • Focus bias adjustment is performed auto matically. |
| 4. RESULT sub-mode | • The measurement value, set value and calculated value are indicated.<br>• The set value is changed manually (in servo OFF state). |
| 5. RESULT mode (final adjustment) | • The set value (after calculation) is indicated.<br>• The set value is changed manually (in servo OFF state). |
| 6. MANUAL pre-adjustment mode | • RF side manual adjustment is performed.<br>• Focus and tracking signal ATT manual adjustment is performed.<br>• 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.<br>• C1 error rate measurement. |
| 10. TEST-REC mode | • Continuous recording from the specified address is performed.<br>• 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(I◀◀) button. | AUTO pre-adjustment menu | [ _ AUT_ YOBI_ _ _ ] |
| Step 3 | Press once the MD PLAY button.<br><br><br><br><br>End of adjustment | The slide moves to the innermost periphery, and automatic pre-adjustment is started.<br>• During automatic adjustment ✳✳✳ changes as follows.<br>HAo→RFg→SAg→SBg→PTG→PCH→GTG→GCH→RCG→SEG→RFG→SAG→HAO→HEO→TCO→LAO<br>If adjustment is OK, Step 4.<br>If adjustment is NG, Step 5. | [ ✳✳✳ : _ _ _ _ _ _ ] |
| Step 4 | Grating adjustment,<br>adjustment value output<br>Press once the MD STOP button. | <br><br>STEP 2 | [ _ C O M P L E T E _ ] |
| Step 5 | Adjustment value output<br>Press once the MD STOP button. | <br>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(I◀◀) button two times. | AUTO adjustment menu | [ A U T O _ A J S T _ ] |
| Step 3 | Press once the MD PLAY button.<br><br><br><br><br>End of adjustment | The slide moves to the innermost periphery, and automatic adjustment is started.<br>• In case of high reflection disc ✳✳✳ changes as follows.<br>PEG→HAG<br>•In case of low reflection disc ✳✳✳ changes as follows.<br>PEG→LAG→GCG→GEG→LAG<br>If adjustment is OK, Step 4.<br>If adjustment is NG, Step 7. | [ ✳✳✳ : _ _ _ _ _ _ ]<br><br><br><br><br>[ C O M P L E T E ] |
| Step 4 | Adjustment value output<br>Press the MD PLAY button.<br>Press the MD STOP button. | <br>STEP 5<br>STEP 2 | |
| Step 5 | Continuous playback (groove section) | | [ a□□□□c○○○○ ] |
| Step 6 | Press the MD STOP button. | STEP 2 AUTO adjustment menu | |
| Step 7 | Adjustment value output<br>Press the MD STOP button. | <br>STEP 2 AUTO adjustment menu | [ C a n ' t _ A D J . ] |

• ✳✳✳ : 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(I◀◀) button three times | AUTO FAB adjustment menu | [_AUT_FAB_ _] |
| Step 3 | Press the MD PLAY button 1 time | End of automatic adj. → step 4<br>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(I◀◀) 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(I◀◀) button. | Indication of measurement value | [ R C G : _ _ _ _ _●] |
| Step 5 | Press once the SKIP DOWN(I◀◀) button. | Indication of measurement value | [ P T G : _ _ _ _ _ ●] |
| Step 6 | Press once the SKIP DOWN(I◀◀) button. | Indication of measurement value | [ G T G : _ _ _ _ _ ●] |
| Step 7 | Press once the SKIP DOWN(I◀◀) button. | Indication of measurement value | [ P C H : _ _ _ _ ●●] |
| Step 8 | Press once the SKIP DOWN(I◀◀) button. | Indication of measurement value | [ G C H : _ _ _ _ ●●] |
| Step 9 | Press once the SKIP DOWN(I◀◀) button. | Indication of measurement value | [ S A G : _ _ _ ●●●] |
| Step 10 | Press once the SKIP DOWN(I◀◀) button. | Indication of measurement value | [ S B G : _ _ _ ●●●] |
| Step 11 | Press once the SKIP DOWN(I◀◀) button. | Indication of measurement value | [ S E G : _ _ _ ●●●] |
| Step 12 | Press once the SKIP DOWN(I◀◀) button. | Indication of measurement value | [ S F G : _ _ _ ●●●] |
| Step 13 | Press once the SKIP DOWN(I◀◀) button. | Indication of measurement value | [ H A O : ○○○ _ _ _] |
| Step 14 | Press once the SKIP DOWN(I◀◀) button. | Indication of measurement value | [ H B O : ○○○ _ _ _] |
| Step 15 | Press once the SKIP DOWN(I◀◀) button. | Indication of measurement value | [ H E O : ○○○ _ _ _] |
| Step 16 | Press once the SKIP DOWN(I◀◀) button. | Indication of measurement value | [ H F O : ○○○ _ _ _] |
| Step 17 | Press once the SKIP DOWN(I◀◀) button. | Indication of measurement value | [ L A O : ○○○ _ _ _] |
| Step 18 | Press once the SKIP DOWN(I◀◀) button. | Indication of measurement value | [ L B O : ○○○ _ _ _] |
| Step 19 | Press once the SKIP DOWN(I◀◀) button. | Indication of measurement value | [ L E O : ○○○ _ _ _] |
| Step 20 | Press once the SKIP DOWN(I◀◀) button. | Indication of measurement value | [ L F O : ○○○ _ _ _] |
| Step 21 | Press once the SKIP DOWN(I◀◀) button. | Indication of measurement value | [ T C O : _ ○○ _ _ _] |
| Step 22 | Press once the SKIP DOWN(I◀◀) button. | Indication of adjustment error sequence No. | [ Y O B : _ □□ _ _ _] |
| Step 23 | Press once the SKIP DOWN(I◀◀) button. | Indication of adjustment status | [ D I F : _ □□ _ _ _] |
| Step 24 | Press once the SKIP DOWN(I◀◀) 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 continously, steps is change by 100ms period.

# CIRCUIT DESCRIPTION

| Step No. | Setting Method | Remarks | Display |
|---|---|---|---|
| Step 1 | Test mode STOP state | | [ t s m○○○○ e ○○ ] |
| Step 2 | Press the SKIP DOWN(I◄◄) 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(I◄◄) button. | Indication of set value | [ H B G : _ _ _ ●●●] |
| Step 5 | Press once the SKIP DOWN(I◄◄) button. | Indication of set value | [ L A G : _ _ _ ●●●] |
| Step 6 | Press once the SKIP DOWN(I◄◄) button. | Indication of set value | [ L B G : _ _ _ ●●●] |
| Step 7 | Press once the SKIP DOWN(I◄◄) button. | Indication of set value | [ P E G : _ _ _ ●●●] |
| Step 8 | Press once the SKIP DOWN(I◄◄) button. | Indication of set value | [ P F G : _ _ _ ●●●] |
| Step 9 | Press once the SKIP DOWN(I◄◄) button. | Indication of set value | [ G E G : _ _ _ ●●●] |
| Step 10 | Press once the SKIP DOWN(I◄◄) button. | Indication of set value | [ G F G : _ _ _ ●●●] |
| Step 11 | Press once the SKIP DOWN(I◄◄) 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 increases, and a new setting is stored in RAM.
- When the (►►) or (◄◄)button in remote controller is pressed continously, 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(I◄◄) 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(I◄◄) button. | Offset "0" setting → A signal offset tentative measurement | [ H A o : △△△ _ _ _ ] |
| Step 5 | Press once the SKIP DOWN(I◄◄) button. | B signal offset tentative measurement | [ H B o : △△△ _ _ _ ] |
| Step 6 | Press once the SKIP DOWN(I◄◄) button. | E signal offset tentative measurement | [ H E o : △△△ _ _ _ ] |
| Step 7 | Press once the SKIP DOWN(I◄◄) button. | F signal offset tentative measurement | [ H F o : △△△ _ _ _ ] |
| Step 8 | Press once the SKIP DOWN(I◄◄) button. | Offset tentative measurement → Laser ON | [ L O N : _ _ _ _ _ _ ] |
| Step 9 | Press once the SKIP DOWN(I◄◄) button. | Innermost periphery move → RF side FG rough adjustment | [ R F g : △△△ _ _ ●] |
| Step 10 | Press once the SKIP DOWN(I◄◄) button. | Focus ATT (A signal) tentative setting | [ S A g : △△△○○○] |
| Step 11 | Press once the SKIP DOWN(I◄◄) button. | Focus ATT (B signal) tentative setting | [ S B g : △△△○○○] |
| Step 12 | Press once the SKIP DOWN(I◄◄) button. | RF side pit section TG adjustment | [ P T G : △△△ _ _ ●] |
| Step 13 | Press once the SKIP DOWN(I◄◄) button. | Pit section COUT level setting | [ P C H : △△△ _ ○○] |
| Step 14 | Press once the SKIP DOWN(I◄◄) button. | Outer periphery move → RF side groove TG adjustment | [ G T G : △△△ _ _ ●] |
| Step 15 | Press once the SKIP DOWN(I◄◄) button. | Groove section COUT level setting | [ G C H : △△△ _ ○○] |
| Step 16 | Press once the SKIP DOWN(I◄◄) button. | RF side TCRS adjustment | [ R C G : △△△ _ _ ●] |
| Step 17 | Press once the SKIP DOWN(I◄◄) button. | Tracking ATT (E signal) setting | [ S E G : △△△○○○] |
| Step 18 | Press once the SKIP DOWN(I◄◄) button. | Tracking ATT (F signal) setting | [ S F G : △△△○○○] |
| Step 19 | Press once the SKIP DOWN(I◄◄) button. | Indication of tracking EFMIO measurement | [ g M I : △△△ _ _ _ ] |
| Step 20 | Press once the SKIP DOWN(I◄◄) button. | RF side pit section FG adjustment | [R F G : △△△ _ _ ●] |
| Step 21 | Press once the SKIP DOWN(I◄◄) button. | Focus ATT (A signal) setting | [ S A G : △△△○○○] |
| Step 22 | Press once the SKIP DOWN(I◄◄) button. | Focus ATT (B signal) setting | [ S B G : △△△○○○] |
| Step 23 | Press once the SKIP DOWN(I◄◄) button. | Offset "0" setting → A signal offset measurement | [ H A O : △△△ _ _ _ ] |
| Step 24 | Press once the SKIP DOWN(I◄◄) button. | B signal offset measurement | [ H B O : △△△ _ _ _ ] |
| Step 25 | Press once the SKIP DOWN(I◄◄) button. | E signal offset measurement | [ H E O : △△△ _ _ _ ] |
| Step 26 | Press once the SKIP DOWN(I◄◄) button. | F signal offset measurement | [ H F O : △△△ _ _ _ ] |
| Step 27 | Press once the SKIP DOWN(I◄◄) button. | TCRS signal offset measurement | [ T C O : △△△ _ _ _ ] |
| Step 28 | Press once the SKIP DOWN(I◄◄) button. | A signal offset measurement | [ L A O : △△△ _ _ _ ] |
| Step 29 | Press once the SKIP DOWN(I◄◄) button. | B signal offset measurement | [ L B O : △△△ _ _ _ ] |
| Step 30 | Press once the SKIP DOWN(I◄◄) button. | E signal offset measurement | [ L E O : △△△ _ _ _ ] |
| Step 31 | Press once the SKIP DOWN(I◄◄) button. | F signal offset measurement | [ L F O : △△△ _ _ _ ] |
| Step 32 | Press once the MD STOP button. | MNU YOBI state | [ _ M N U _ Y O B I _ ] |

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

# CIRCUIT DESCRIPTION

- When the (►►)button in remote controller is pressed while the setting is displayed, the setting increases, and a new setting is stored in RAM.
- When the (◄◄)button in remote controller is pressed while the setting is displayed, the setting increases, and a new setting is stored in RAM.
- When the (►►) or (◄◄) button in remote controller is pressed continously, 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(I◄◄) 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(I◄◄) button. | Laser ON | [ L O N : _ _ _ _ _ _ ] |
| Step 5 | Press once the SKIP DOWN(I◄◄) button. | Innermost periphery move → Tracking ATT (E signal) setting | [ P E G : △△△○○○] |
| Step 6 | Press once the SKIP DOWN(I◄◄) button. | Tracking ATT (F signal) setting | [ P F G : △△△○○○] |
| Step 7 | Press once the SKIP DOWN(I◄◄) button. | Indication of tracking EFMIO measurement | [ P M I : △△△ _ _ _ ] |
| Step 8 | Press once the SKIP DOWN(I◄◄) button. | Focus ATT (A signal) setting | [ H A G : △△△○○○] |
| Step 9 | Press once the SKIP DOWN(I◄◄) 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(I◄◄) 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(I◄◄) button. | Laser ON | [ L O N : _ _ _ _ _ _ ] |
| Step 5 | Press once the SKIP DOWN(I◄◄) button. | Innermost periphery move → Tracking ATT (E signal) setting | [ P E G : △△△○○○] |
| Step 6 | Press once the SKIP DOWN(I◄◄) button. | Tracking ATT (F signal) setting | [ P F G : △△△○○○] |
| Step 7 | Press once the SKIP DOWN(I◄◄) button. | Indication of tracking EFMIO measurement (pit section) | [ P M I : △△△ _ _ _ ] |
| Step 8 | Press once the SKIP DOWN(I◄◄) button. | Focus ATT (A signal) setting | [ L A g : △△△○○○] |
| Step 9 | Press once the SKIP DOWN(I◄◄) button. | Focus ATT (B signal) setting | [ L B g : △△△○○○] |
| Step 10 | Press once the SKIP DOWN(I◄◄) button. | Outside periphery move → Track closs setting | [ G C G : △△△○○○] |
| Step 11 | Press once the SKIP DOWN(I◄◄) button. | Tracking ATT (E signal) setting | [ G E G : △△△○○○] |
| Step 12 | Press once the SKIP DOWN(I◄◄) button. | Tracking ATT (F signal) setting | [ G F G : △△△○○○] |
| Step 13 | Press once the SKIP DOWN(I◄◄) button. | Indication of tracking EFMIO measurement (groove section) | [ G M I : △△△ _ _ _ ] |
| Step 14 | Press once the SKIP DOWN(I◄◄) button. | Focus ATT (A signal) setting | [ L A G : △△△○○○] |
| Step 15 | Press once the SKIP DOWN(I◄◄) 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 _ ]<br>↓<br>[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.
- □□□□ : Adress, ○○○○ : Error late

# 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 _ _ ]<br>↓<br>[ 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. | [ TEMP ○○ ●● ] |
| Step 4 | Press STOP button. | | [ _ _ EJECT_ _ _ ] |

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

**• POWER**

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

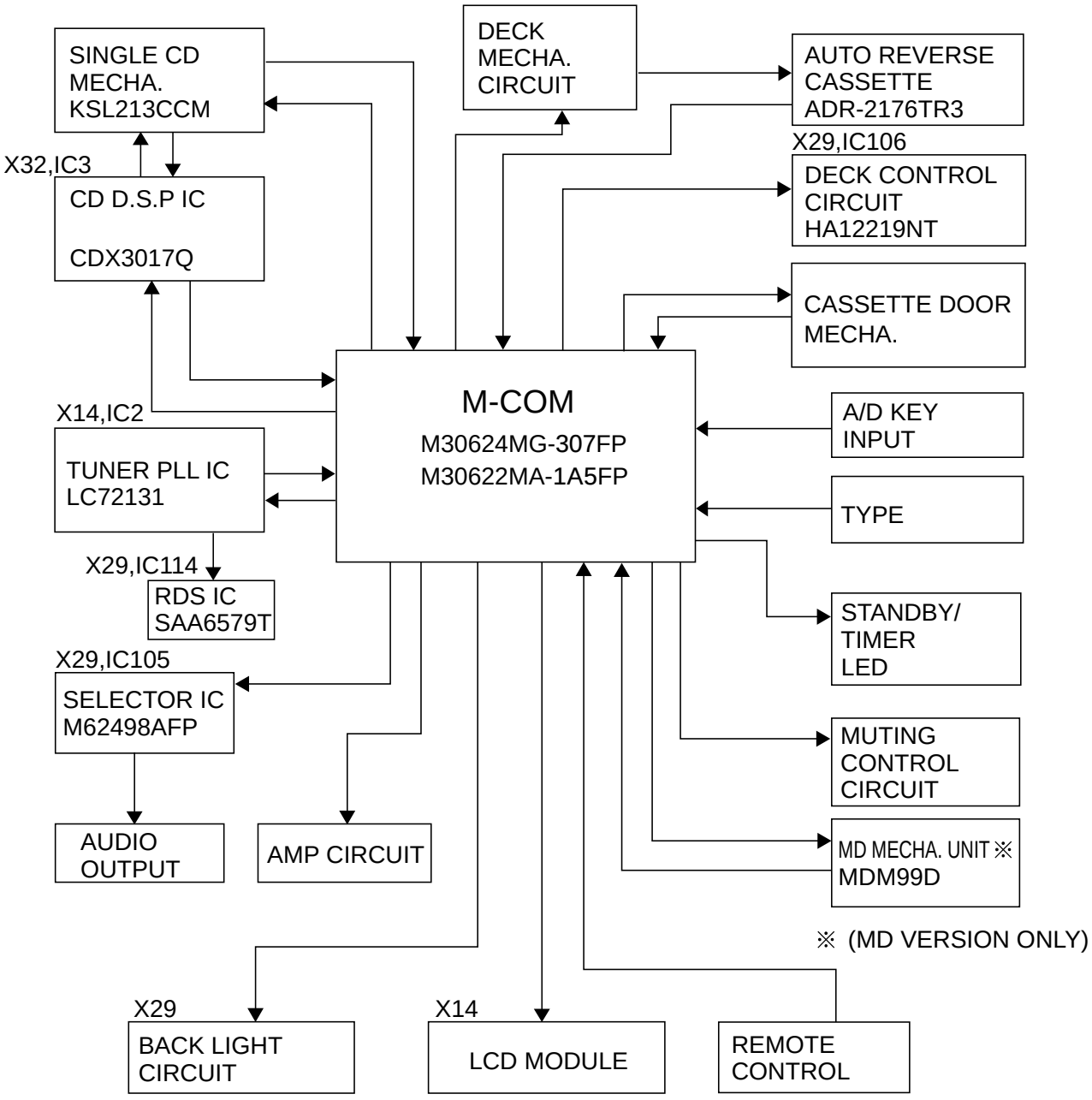
## 8. MD mechanism error message

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

# CIRCUIT DESCRIPTION

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

**5-1 Main Microprocessor Periphery Block Diagram**




**5-2. Key Matrix**

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

※ Vref=5V
( ) Deck Version

# CIRCUIT DESCRIPTION

### 5-3 Pin Description of Main Microprocessor

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

# CIRCUIT DESCRIPTION

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

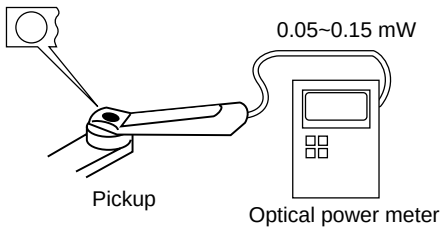
# ADJUSTMENT

## CD player adjustment

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

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

### (a) Laser Power

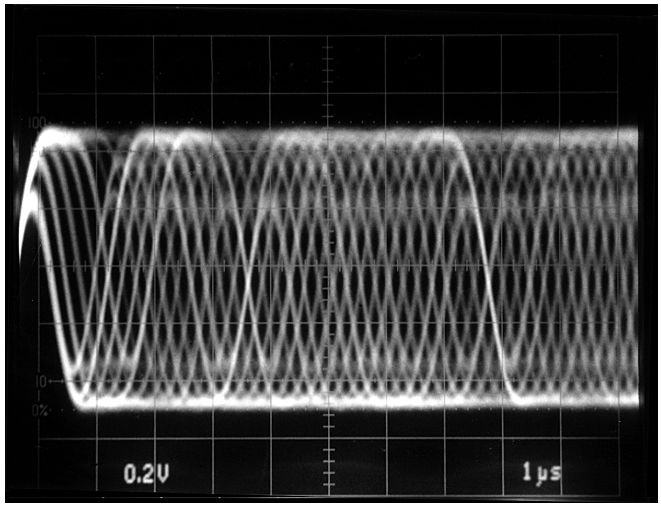



### ✻ How To Check the Laser Power

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

### (d)

RF signal: AC coupled

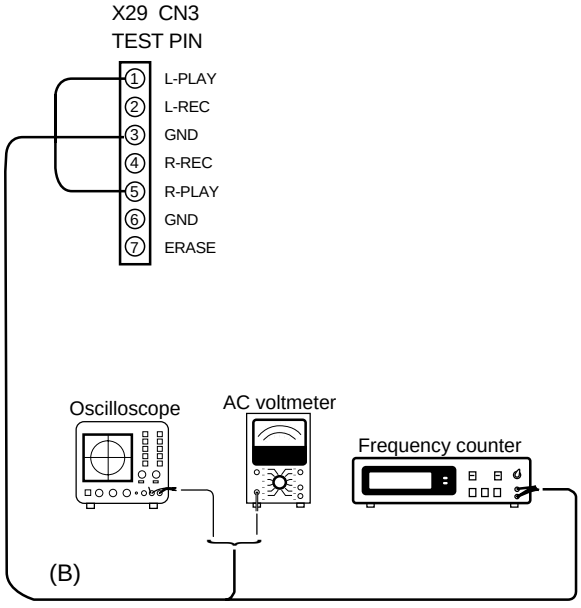


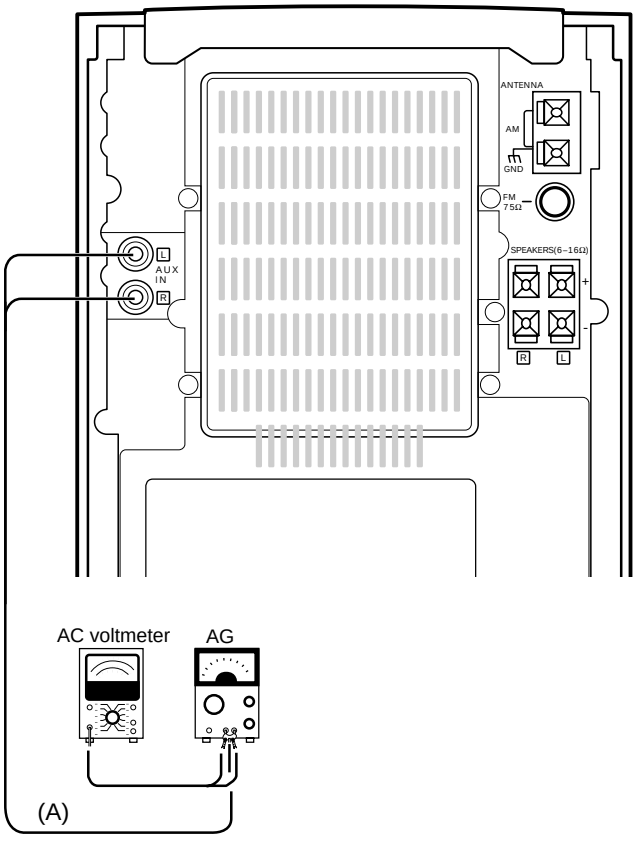

- RF signal in test mode (PLAY).
- Perform the tangential and focusing offset are focused into one point on the display. The crossing points above and below the center shall also be looked clearly.

# ADJUSTMENT

## Cassette deck adjustment

| NO. | ITEM | INPUT SETTING | OUTPUT SETTING | CASSETTE TAPE DECK SETTING | ALIGNMENT POINTS | ALIGN FOR | FIG. |
|---|---|---|---|---|---|---|---|
| **Unless otherwise specified, set the respective switches as follows:** **TAPE : NORMAL** **I Cassette mechanism unit (Adjustment of the REC / PLAY head)** | | | | | | **0dBs = 0.775V** | |
| (1) | Demagnetization and cleaning | | | Power : OFF Demagnetization, cleaning, PLAY | Recording head, erase head, capstan pinch roller | Demagnetize the REC / PLAY head with the head eraser. Clean the REC/ PLAY head, erase head, capstan and pinch roller using a cotton swab slightly damped with alcohol. | |
| (2) | Azimuth of the REC / PLAY head | SCC-1727 TCC-153 MTT-114 10kHz, -10dB | (B) | PLAY | 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 45ß 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. | |



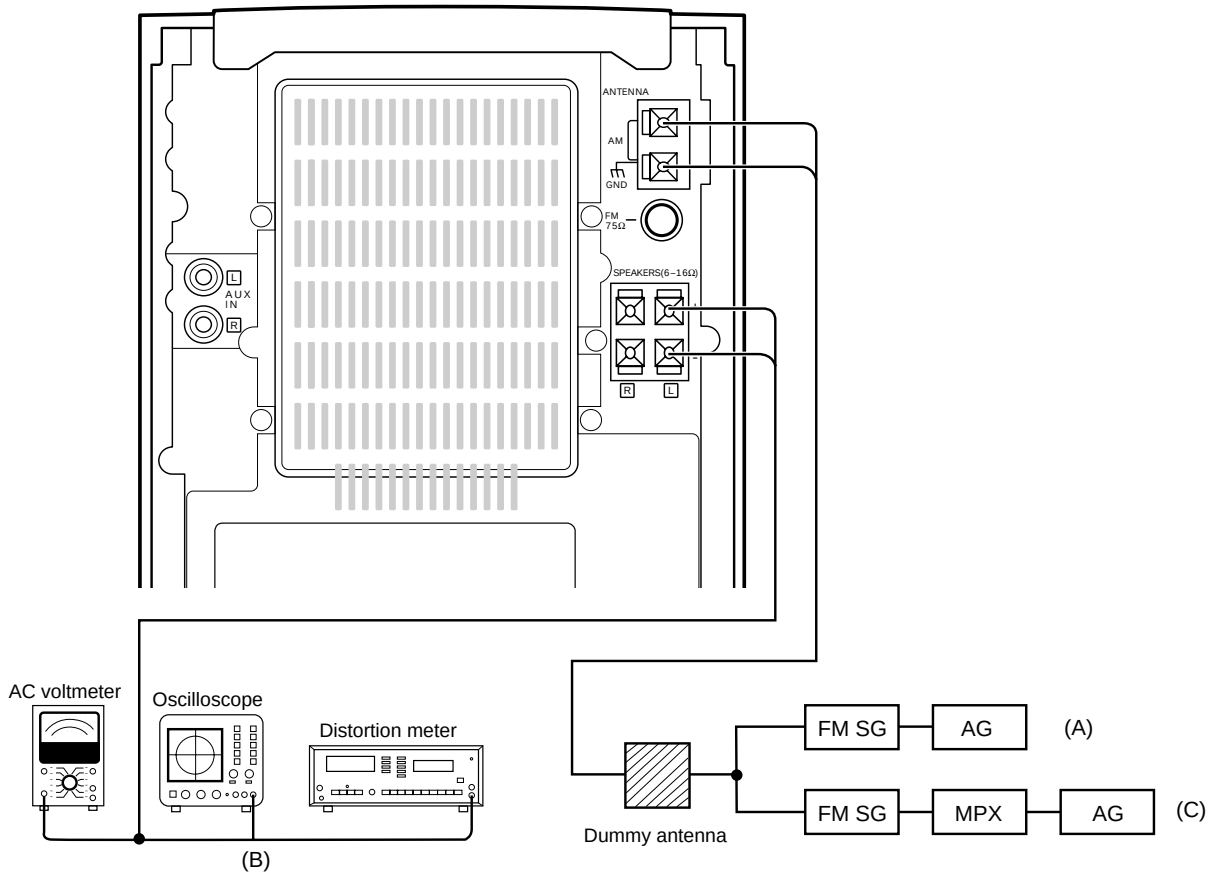



# ADJUSTMENT

## 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



# HOW TO THE PARTS LIST

***HOW TO READ THE PARTS LIST***

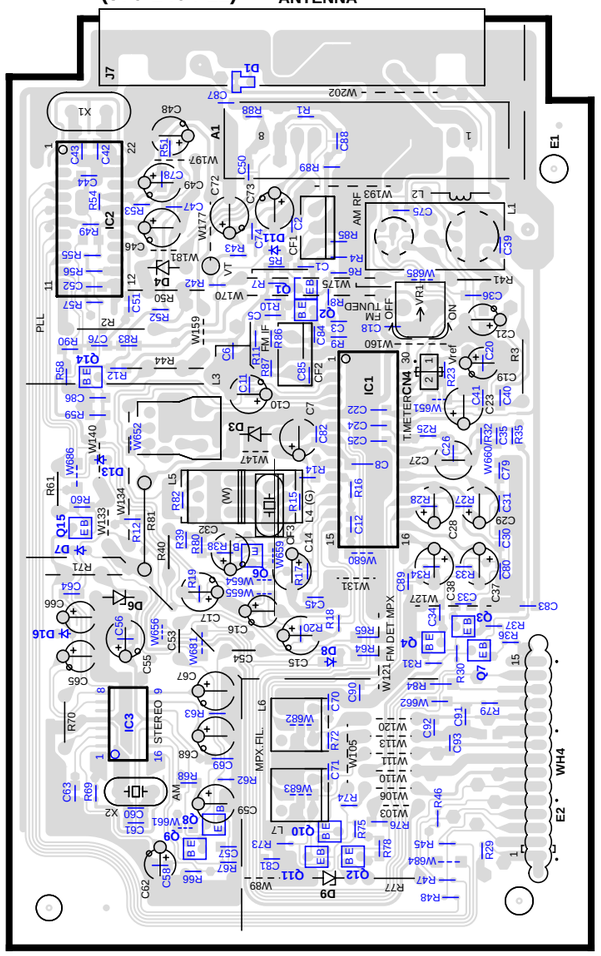
***ABBREVIATION OF MODEL AND MASS PRODUCTION'S DESTINATIONS***

| *MODEL* | *ABB.* | *Australia* | *Canada* | *China* | *England* | *Europe* | *Germany* | *Korea* | *Malaysia* |
|---|---|---|---|---|---|---|---|---|---|
| RXD-M32-L | *L* | X | - | - | T | E | - | H | - |
| RXD-M32E-L | *L* | - | - | - | - | E2 | - | - | - |
| RXD-M32-S | *S* | X | P | - | T | E | - | H | - |
| RXD-M32E-S | *S* | - | - | - | - | E2 | - | - | - |
| RXD-M32-Y | *Y* | - | - | - | T1 | E1 | - | - | - |
| RXD-M32E-Y | *Y* | - | - | - | - | E3 | - | - | - |
| RXD-M32-H | *H* | X | - | - | T | E | - | H | - |
| RXD-M32E-H | *H* | - | - | - | - | E2 | - | - | - |
| RXD-M32-W | *W* | - | - | - | - | E | - | - | - |
| RXD-M32E-W | *W* | - | - | - | - | E2 | - | - | - |
| RXD-M32-LS | *LS* | - | P | - | - | - | - | - | - |

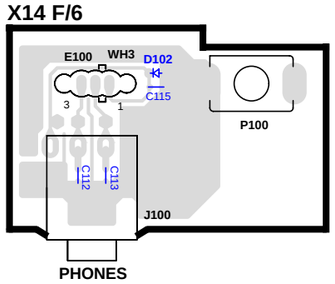
| *MODEL* | *ABB.* | *Mexico* | *PX/AAFES* | *Russia* | *Scandinavia* | *Shanghai* | *USA* | *Other area* | |
|---|---|---|---|---|---|---|---|---|---|
| RXD-M32-L | *L* | - | - | - | - | - | - | M | - |
| RXD-M32E-L | *L* | - | - | - | - | - | - | - | - |
| RXD-M32-S | *S* | - | - | - | - | - | K | M | - |
| RXD-M32E-S | *S* | - | - | - | - | - | - | - | - |
| RXD-M32-Y | *Y* | - | - | - | - | - | - | M1 | - |
| RXD-M32E-Y | *Y* | - | - | - | - | - | - | - | - |
| RXD-M32-H | *H* | - | - | - | - | - | - | M | - |
| RXD-M32E-H | *H* | - | - | - | - | - | - | - | - |
| RXD-M32-W | *W* | - | - | - | - | - | - | - | - |
| RXD-M32E-W | *W* | - | - | - | - | - | - | - | - |
| RXD-M32-LS | *LS* | - | - | - | - | - | K | - | - |

# PC BOARD(Component side view)

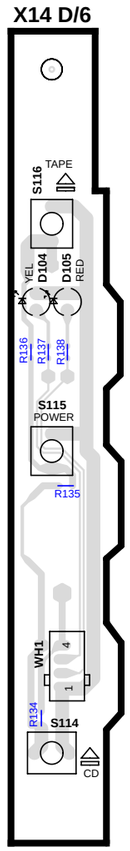
X14-7140-00 A/6
(J70-1404-11)



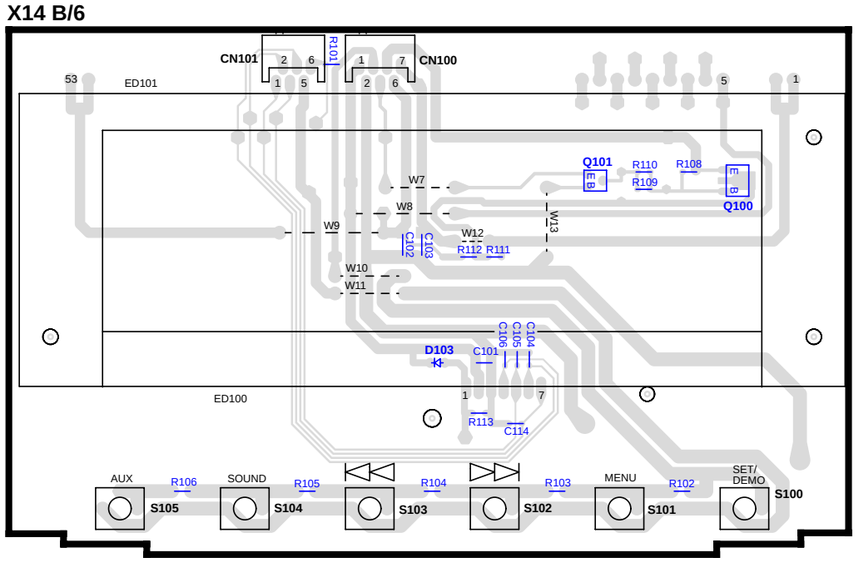

X14 F/6



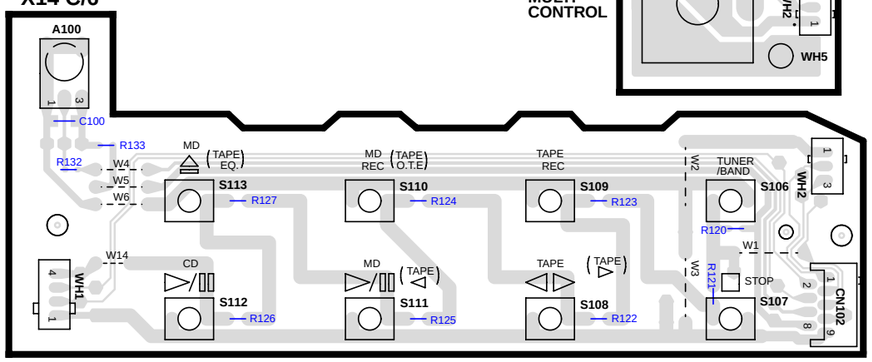

X14 D/6



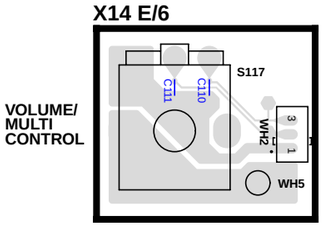

X14 B/6



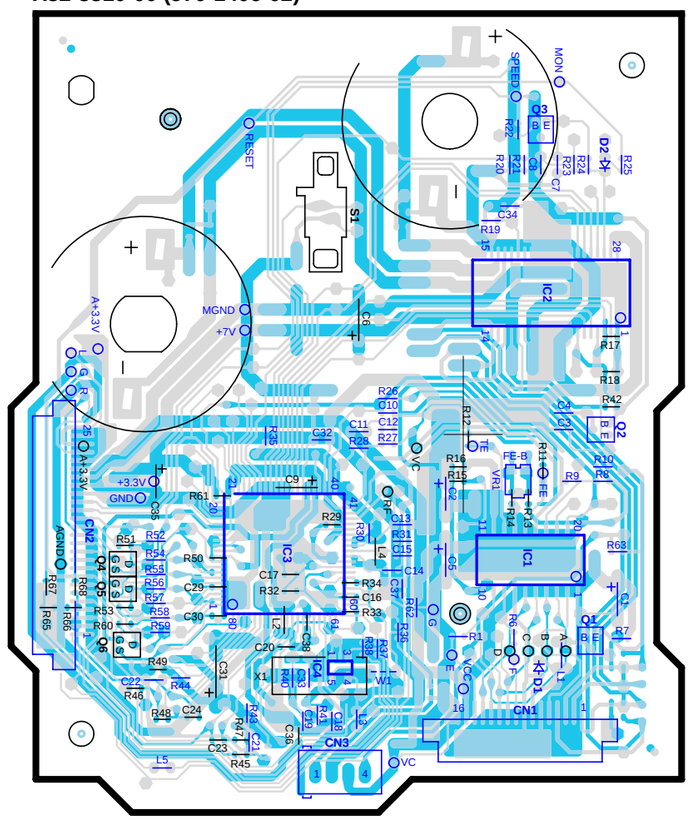

X14 C/6




X14 E/6




X32-3810-00 (J70-1406-02)

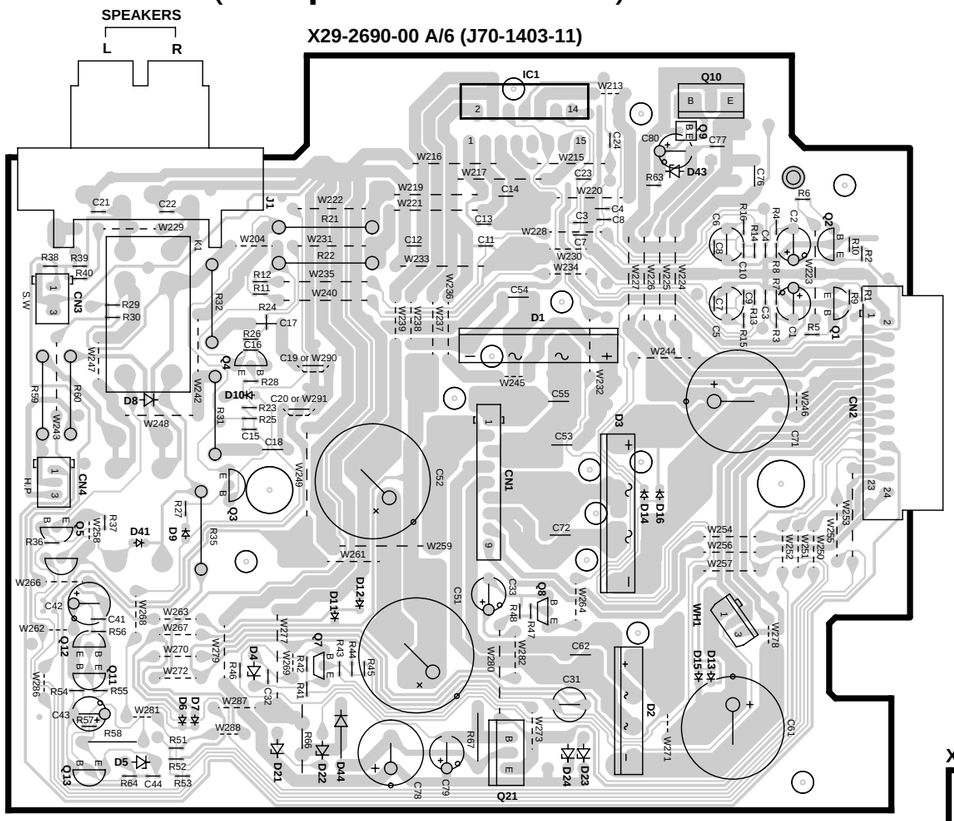


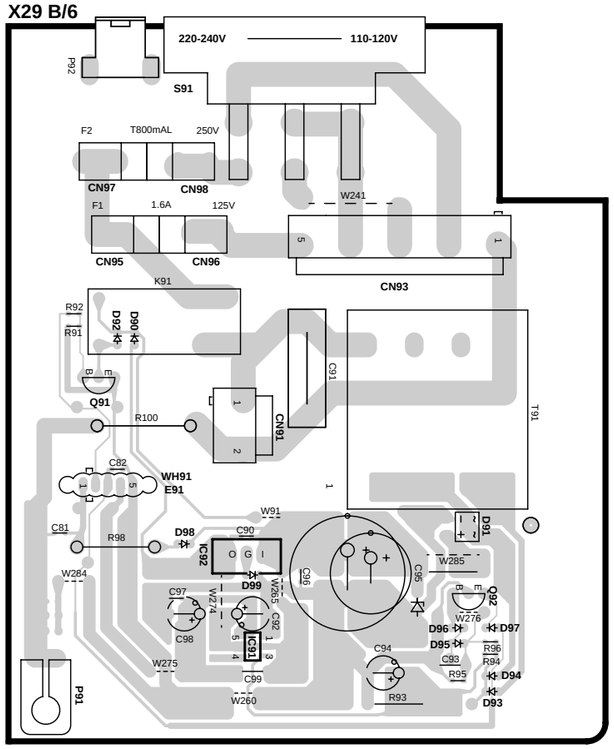


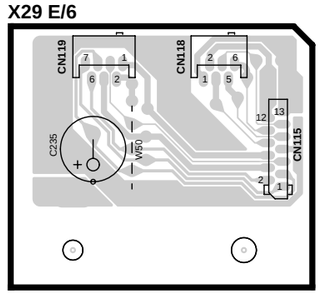


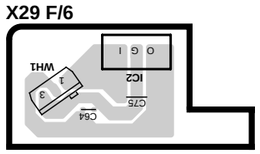

Refer to the schematic diagram for the value of resistors and capacitors.

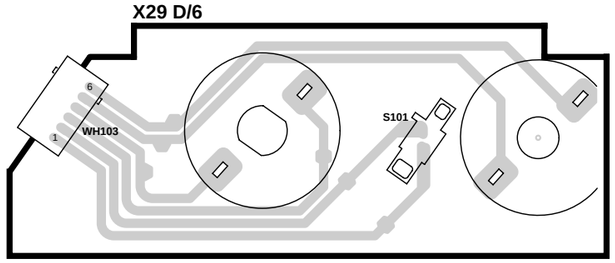
# PC BOARD(Component side view)







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

TUNER UNIT (X14-714X-XX) (A/6)

(K,P,M,M1,X) TYPE
A1 (W02-2622-05)

FET : 2SK302
TR1 : 2SC2714
TR2,3: 2SC2413
D1-3 : HVU202 or 1T362

(T,T1,E,E1,H,H1,E2,E3) TYPE
A1 (W02-2584-05)

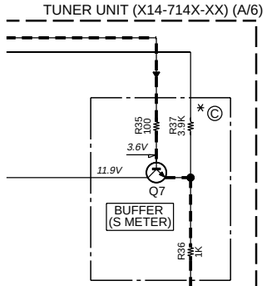
FET1 : 2SK302
TR1 : 2SC2714
TR2,3 : 2SC2413
D1-4 : SVC220 or KV1440

(J) TYPE
A1 (W02-2621-05)

FET : 2SK302
TR1 : 2SC2714
TR2,3: 2SC2413
D1-3 : HVU202 or 1T363
D4 : HSU277 or 1SS356

FM TUNED ADJ
FM DET/MPX AM DET
AM RF
FM FRONT-END
RF AMP
MIX
DISTORTION(ST)
OSC
OSC BUFFER
FM IF AMP
ATT
DISCRIMINATOR
DE-EMPHASIS 75uS: ON 50uS: OFF
S LEVEL BUFFER
REG
ALC
AM OSC
AM MIX
AM RF.AMP
BUFF
AGC
AM IF
DET
SD COMP
AM S-METER
FM S-METER
S-CURVE
AM/FM IF-BUFF
FM IF
FM DET
TUNING DRIVE
STEREO DRIVE
DECODER ANTI-BIRDIE
P-DET
STEREO SW
MUTE
VCO 304KHz
FF 38K
FF 19K
PILOT DET
PLL IC2
REFERENCE DIVIDER
PHASE DETECTOR CHARGE PUMP
UNLOCK DETECTOR
POWER ON RESET
SWALLOW COUNTER 1/16,1/17 4bits
12bits PROGRAMABLE DIVIDER
DATA SHIFT REGISTER LATCH
UNIVERSAL COUNTER
FM +B
+12V

TUNER UNIT (X14-714X-XX) (A/6)




RXD-SH3MD-L/SH3MD-S/SH3MD-H/SH3MD-LS/SH3MD-W/SH3MD-Y/SH3MD-D (X14-7140-00)

| DESTINATION | | UNIT No. | ⒶⒷⒸⒺⒻⒼ | R8, 11 | R14 | R15 | R23 | R25 | R27, 28 | R32 | C25 | C26,30, 31,83 | C35, 89,90 | C70, 71,74 | C79, 80 | IC1 | CF1,2 | E1 | CF3 | CN4 | W656, 660 | W682, 683 | L6, 7 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | | | | | | | | | | | |
| JAPAN | J | 0-00 | NO | 33 | 270 | NO | 3.3K | 18K | 4.7K | YES | 470P | 0.022 | YES | NO | 3300P | LA1838 | L72-0531(MA5) | F10-1165 | YES | NO | NO | YES | NO |
| JAPAN | J1 | 0-01 | | | | | | | | | | | | | | | | | | | | | |
| JAPAN | J2 | 0-02 | | | | | | | | | | | | | | | | | | | | | |

RXD-M32MD-S/M32MD-LS/M32MD-L (X14-714X-XX)

| DESTINATION | | UNIT No. | ⒶⒸⒻⒼ | ⒷⒺ | R8 | R11 | R14 | R15 | R23 | R25 | R27, 28 | R32 | C25 | C26 | C30, 31 | C35 89,90 | C70, 71 | C74 | C79, 80 | C83 | IC1 | CF1,2 | E1 | CF3 | CN4 | W656 | W682, 683 | W660 | L6, 7 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GENERAL MARKET | M | 0-21 | NO | | 33 | 33 | 270 | NO | 3.3K | 18K | 4.7K | YES | 470P | 0.022 | | YES | NO | | 3300P | 0.022 | LA1838 | L72-0531(MA5) | F10-1165 | YES | NO | | | NO | NO |
| AUSTRALIA | X | 0-71 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| U.K. | T | | | NO | | | | | | | | | | | 0.022 | | | NO | | | | | | | NO | YES | | | |
| EUROPE | E | 2-71 | YES | | 10 | 22 | 100 | 33K | 15K | 27K | 4.3K | NO | 180P | 0.018 | | NO | YES | | 6800P | 100P | LA1837 | L72-0536(MS3) | F10-1166 | NO | YES | | | YES | YES |
| KOREA | H | | | | | | | | | | | | | | | | | | | | | | | | | | | |

RXD-M32MD-Y(X14-714X-XX)

| DESTINATION | | UNIT No. | ⒶⒸⒻⒼ | Ⓑ | Ⓔ | R8 | R11 | R14 | R15 | R23 | R25 | R27, 28 | R32 | C25 | C26 | C30, 31 | C35, 89,90 | C70, 71 | C74 | C79, 80 | C83 | IC1 | CF1,2 | E1 | CF3 | CN4 | W656, 682,683 | W660 | L6, 7 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GENERAL MARKET | M1 | 0-22 | NO | YES | NO | 33 | 33 | 270 | NO | 3.3K | 18K | 4.7K | YES | 470P | 0.022 | 0.022 | YES | NO | NO | 3300P | 0.022 | LA1838 | L72-0531(MA5) | F10-1165 | YES | NO | YES | NO | NO |
| KOREA | H1 | 2-72 | YES | NO | | 10 | 22 | 100 | 33K | 15K | 27K | 4.3K | NO | 180P | 0.018 | | NO | YES | | 6800P | 100P | LA1837 | L72-0536(MS3) | F10-1166 | NO | YES | NO | YES | YES |

RXD-M32-S/M32-L/M32-H/M32-W (X14-714X-XX)

| DESTINATION | | UNIT No. | ⒶⒸⒻⒼ | Ⓑ | Ⓔ | R8 | R11 | R14 | R15 | R23 | R25 | R27, 28 | R32 | C25 | C26 | C30, 31 | C35, 89,90 | C70, 71 | C74 | C79, 80 | C83 | IC1 | CF1,2 | E1 | CF3 | CN4 | W656 | W660 | W682, 683 | L6, 7 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GENERAL MARKET | M | 0-21 | NO | YES | | 33 | 33 | 270 | NO | 3.3K | 18K | 4.7K | YES | 470P | 0.022 | | YES | NO | | 3300P | 0.022 | LA1838 | L72-0531(MA5) | F10-1165 | YES | NO | YES | NO | YES | NO |
| AUSTRALIA | X | 0-71 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| U.K. | T | | | NO | | | | | | | | | | | | 0.022 | | | NO | | | | | | | NO | | | | |
| EUROPE | E | 2-71 | YES | | NO | 10 | 22 | 100 | 33K | 15K | 27K | 4.3K | NO | 180P | 0.018 | | NO | YES | | 6800P | 100P | LA1837 | L72-0536(MS3) | F10-1166 | NO | YES | | YES | NO | YES |
| KOREA | H | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

RXD-M32-S/M32-LS (X14-714X-XX)

| DESTINATION | | UNIT No. | ⒶⒷⒸⒻⒼ | Ⓔ | R8, 11 | R14 | R15 | R23 | R25 | R27, 28 | R32 | C25 | C26 | C30, 31 | C35,74, 89,90 | C70, 71 | C79, 80 | C83 | IC1 | CF1,2 | E1 | CF3 | CN4 | W656, 660 | W682, 683 | L6, 7 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | | | | | | | | | | | | | | |
| U.S.A. | K | 0-11 | NO | YES | 33 | 100 | 4.7K | 8.2K | 16K | 4.7K | YES | 470P | 0.022 | 0.033 | YES | NO | 4700P | 100P | LA1837 | L72-0596(MS2) | F10-1165 | NO | YES | NO | YES | NO |
| CANADA | P | | | | | | | | | | | | | | | | | | | | | | | | | |

RXD-M32-Y(X14-714X-XX)

| DESTINATION | | UNIT No. | ⒶⒸⒻⒼ | Ⓑ | Ⓔ | R8 | R11 | R14 | R15 | R23 | R25 | R27, 28 | R32 | C25 | C26 | C30, 31 | C35, 89,90 | C70, 71 | C74 | C79, 80 | C83 | IC1 | CF1,2 | E1 | CF3 | CN4 | W656, 682,683 | W660 | L6, 7 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GENERAL MARKET | M1 | 0-22 | NO | YES | | 33 | 33 | 270 | NO | 3.3K | 18K | 4.7K | YES | 470P | 0.022 | | YES | NO | | 3300P | 0.022 | LA1838 | L72-0531(MA5) | F10-1165 | YES | NO | YES | NO | NO |
| U.K. | T1 | 2-72 | YES | NO | NO | | | | | | | | | | | 0.022 | | | NO | | | | | | | | | | |
| EUROPE | E1 | | | | | 10 | 22 | 100 | 33K | 15K | 27K | 4.3K | NO | 180P | 0.018 | | NO | YES | | 6800P | 100P | LA1837 | L72-0536(MS3) | F10-1166 | NO | YES | NO | YES | YES |

RXD-M32E-L/M32E-H/M32E-S/M32E-W (X14-7142-71)

| DESTINATION | | UNIT No. | ⒶⒸⒻⒼ | ⒷⒺ | R8 | R11 | R14 | R15 | R23 | R25 | R27, 28 | R32 | C25 | C26 | C30, 31 | C35,74 89,90 | C70, 71 | C79, 80 | C83 | IC1 | CF1,2 | E1 | CF3 | CN4 | W656, 682,683 | W660 | L6, 7 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EUROPE | E2 | 2-71 | YES | NO | 10 | 22 | 100 | 33K | 15K | 27K | 4.3K | NO | 180P | 0.018 | 0.022 | NO | YES | 6800P | 100P | LA1837 | L72-0536(MS3) | F10-1166 | NO | YES | NO | YES | YES |

RXD-M32E-Y (X14-7142-72)

| DESTINATION | | UNIT No. | ⒶⒸⒻⒼ | ⒷⒺ | R8 | R11 | R14 | R15 | R23 | R25 | R27, 28 | R32 | C25 | C26 | C30, 31 | C35,74 89,90 | C70, 71 | C79, 80 | C83 | IC1 | CF1,2 | E1 | CF3 | CN4 | W656, 682,683 | W660 | L6, 7 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EUROPE | E3 | 2-72 | YES | NO | 10 | 22 | 100 | 33K | 15K | 27K | 4.3K | NO | 180P | 0.018 | 0.022 | NO | YES | 6800P | 100P | LA1837 | L72-0536(MS3) | F10-1166 | NO | YES | NO | YES | YES |

IC1 : ⁎
IC2 : LC72131

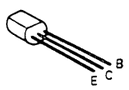
Q1,3,4,6,7 : 2SC4081(R,S) or 2SD1819A(Q,R)
Q2,14 : 2SA1576A(R,S) or 2SB1218A(Q,R)

D1 : DA204U or MA143A or 1SS302
D3 : MTZJ8.2(B) or HZS8.2N(B2)
D4 : MTZJ5.1(B) or HZS5.1N(B2)
D8,11,13 : MA111

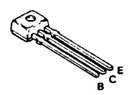
DIGITAL LINE
SIGNAL LINE
GND LINE
+B LINE

2SD2012

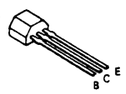

2SA1286-T11 2SD863
2SB764
2SC2003
2SC2878
2SC3246



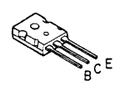

2SC2785




DTA124ESA 2SC2458
DTC124ESA
UN4112

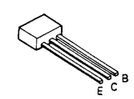



2SD1963

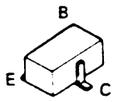



2SD2061

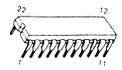

UN4212



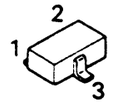

2SA1576A 2SD1819A
2SB1218A
2SC4116



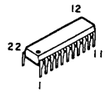

HA12219NT




DA204U

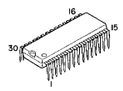



LC72131

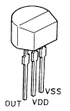



BA3126N

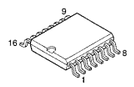

LA1837
LA1838



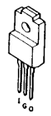

S-80840ANY



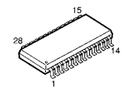

SAA6579T/R



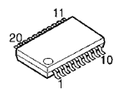

TA7812S



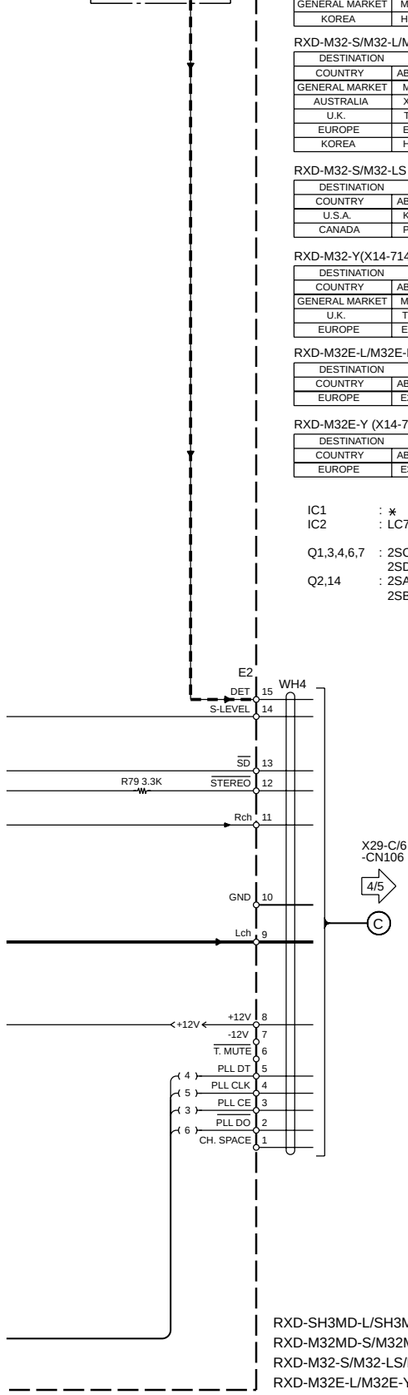

BA5974FP




CXA1821M




L88M33T


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

The DC voltage is an actual reading measured with a high impedance type voltmeter as the AM/FM signal generator is specified to the conditions as shown in the list below. The measurement value may vary depending on the measuring instruments used or on the product. The value shown in ( ) is actual reading measured in the AM mode.

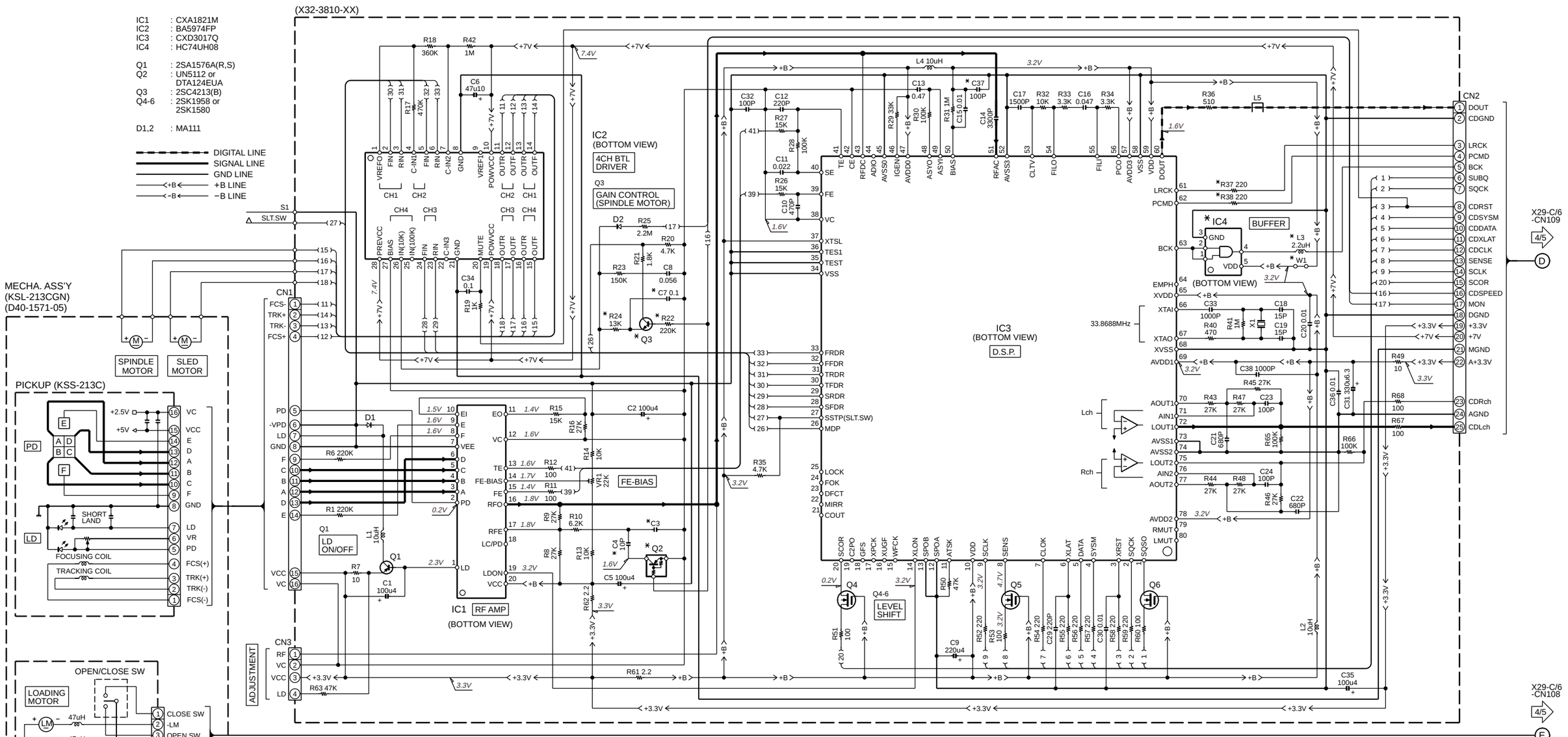
| MODE | CARRIER | MODULATION | | ANT INPUT |
|---|---|---|---|---|
| | | FREQUENCY | DEVIATION | |
| FM | 98MHz | 1kHz | STEREO 67.5kHz 7.5kHz(Pilot) | 60dB |
| AM | 1000(999)kHz | 400Hz | MONO 30% MOD | 60dB |

RXD-SH3MD-L/SH3MD-S/SH3MD-D/SH3MD-H/SH3MD-Y/SH3MD-LS/SH3MD-W (2/5)
RXD-M32MD-S/M32MD-Y/M32MD-LS/M32MD-L (2/5)
RXD-M32-S/M32-LS/M32-L/M32-Y/M32-H/M32-W (2/5)
RXD-M32E-L/M32E-Y/M32E-H/M32E-S/M32E-W (2/5)



RXD-M32

KENWOOD




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 | 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 | 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 | 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 | 0-00 | YES | 15P | YES | NO | YES | YES | YES | YES |
| U.K. | T | | | | | | | | | |
| 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 | 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 | 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 | 0-01 | NO | 22P | NO | YES | NO | NO | NO | NO |
| AUSTRALIA | X | | | | | | | | | |
| 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 | 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 | 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. | | | | | | | | | |
| GENERAL MARKET | M1 | 0-01 | NO | 22P | NO | YES | NO | NO | NO | NO |
| U.K. | T1 | | | | | | | | | |
| EUROPE | E1 | | | | | | | | | |

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

Y39-5350-10

RXD-M32

KENWOOD

MDM-99D -CN1501 1/5 A

MDM-99D -CN1052 1/5 B

X32-CN2 3/5 D

(X29-269X-XX) (C/6)

DIODE SOLENOID PHOTO SENSOR MODE SW CAPSTAN MOTOR

CN102: +SOL, SENSOR OUT, PLAY SW, +MTR, NC, NC, +5V(SENSOR), GND

CrO2 HALF REC-F REC-R

CN102: CrO2 SW, PACK SW, F.REC SW, R.REC SW

CN103 ADJUSTMENT: L-PLAY, L-REC, GND, R-PLAY, R-REC

CN101: L-PLAY, L-REC, GND, R-REC, R-PLAY, GND, ERASE, ERASE

Lch Rch ERASE

MOTOR DRIVER: Q103 Q104 Q105 Q106

SOL DRIVER

Q117 MD-AVCC REG.

MD-AVDD REG. IC110 (VOUT VGND VIN)

IC108 LEVEL SHIFT (BOTTOM VIEW)

IC109 (2/2) IC109 (1/2) MD ANALOG-REC AMP

CN104 CN105 WH102 CN108 A101 OPT OUT

PLAY/REC HEAD SW (PB:ON REC:OFF) IC107

REC SW COM R-R CONT GND VCC L-R COM REC SW

R/P SWITCH Q113 Q114

IC106 PLAY BACK /REC EQ.

BIAS ADJ. (Lch) BIAS ADJ. (Rch)

SWITCH NOR ↔ CrO2 BIAS ON/OFF SW

BIAS AVR BIAS OSC

Q108 Q107 Q109 Q110 Q111 Q112

L101 L102 L103 L104

IC104 (BOTTOM VIEW) u-COM

NORMAL BIAS REC-R SW NC RC REC-F SW PACK SW CrO2 SW PLAY SW SOL CAM ENC2 ENC1 LED1 LCD CLK NC LCD DATA LED2 DSCK MD DATA KDATA

TUNER CONT. POP-UP MECHA CONT. DECK CONT. CD CONT. CD MECHA CONT.

MP-DATA MP-CLK MP-STB 10MHz 32.768KHz

IC101 : S-80840ANY
IC103,111 : TA8409S
IC104 : *
IC105 : M62498AFP
IC106 : HA12219NT
IC107 : BA3126N
IC108 : TC74HCT7007AF
IC109 : NJM4565D
IC110 : BA05T or LM2940CT-5.0 or TA7805S or UPC7805AHF or BA17805T
IC112 : L88M33T
IC114 : SAA6579T/R

Q101,107 : 2SC2785(F,E) or 2SC2458(Y,GR)
Q102,117 : 2SC2003(L,K)
Q103 : 2SB764(E,F)
Q104,118 : 2SA1286-T11
Q105,106,111,112,114,119 : UN4212 or DTC124ESA
Q108 : 2SC4081(R,S) or 2SC4116(Y,GR)
Q109 : 2SD863(E,F)
Q110,113 : UN4112 or DTA124ESA
Q120 : 2SC3246

D101 : 1SS402
D102,106,107,111,114 : 1SS133 or HSS104A
D103,105,116 : RD5.6ES(B2) or MTZJ5.6(B)
D108 : RD5.1ES(B2) or MTZJ5.1(B)
D109 : RD6.8ES(B2) or MTZJ6.8(B)
D110,115 : MA111

A101 : W02-1114-15

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

X14-A/6 -E2 1/5 C

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

| DESTINATION | | UNIT No. | Ⓒ Ⓕ Ⓗ Ⓙ | Ⓓ Ⓔ | R203 | R292 | J101 | IC104 | C121, 122 | C123, 124 | C249 | C246, 247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | |
| JAPAN | J,J1,J2 | 0-00 | YES | NO | YES | 910K | NO | M30624MG-307FP | 0.1 | 0.082 | YES | NO |

RXD-M32MD-S/M32MD-Y/M32MD-LS/M32MD-L (X29-269X-XX)

| DESTINATION | | UNIT No. | Ⓕ Ⓗ Ⓙ | Ⓒ Ⓓ | Ⓔ | R203 | R292 | J101 | IC104 | C121, 122 | C123, 124 | C249 | C246, 247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | |
| GENERAL MARKET | M,M1 | 0-21 | YES | NO | YES | NO | 12K | 100K | M30624MG-307FP | 0.15 | 0.068 | YES | NO |
| AUSTRALIA | X | 0-71 | | | | YES | | YES | | | | | |
| U.K. | T | 2-71 | | | | | | 47K | | | | | |
| EUROPE | E | | | | | | | | | | | | |
| KOREA | H | | | | | | | | | | | | |

RXD-M32-S/M32-LS/M32-L/M32-H/M32-Y/M32-W (X29-269X-XX)

| DESTINATION | | UNIT No. | Ⓓ | Ⓒ Ⓕ Ⓗ Ⓙ | Ⓔ | R203 | R292 | J101 | IC104 | C121, 122 | C123, 124 | C249 | C246, 247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | |
| U.S.A. | K | 0-11 | YES | NO | NO | NO | 220K | YES | M30622MA-1A5FP | 0.15 | 0.068 | NO | YES |
| CANADA | P | | | | | | | | | | | | |
| GENERAL MARKET | M,M1 | 0-22 | | | | | 100K | | | | | | |
| AUSTRALIA | X | 0-72 | | | | | 47K | | | | | | |
| U.K. | T,T1 | 2-72 | | | YES | | 12K | | | | | | |
| EUROPE | E,E1 | | | | | | | | | | | | |
| KOREA | H | | | | | | | | | | | | |

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

| DESTINATION | | UNIT No. | Ⓓ Ⓔ | Ⓒ Ⓕ Ⓗ Ⓙ | R203 | R292 | J101 | IC104 | C121, 122 | C123, 124 | C249 | C246, 247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | |
| EUROPE | E2,E3 | 2-72 | YES | NO | NO | 12K | YES | M30622MA-1A5FP | 0.15 | 0.068 | NO | YES |

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

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-E-Y/M32E-H/M32E-S/M32E-W (4/5)

Y39-5350-10

# RXD-M32

KENWOOD

AY | AZ | BA | BB | BC | BD | BE | BF | BG | BH

1 2 3 4 5 6 7

X29-C/6 -CN114 4/5 G
X29-C/6 -E102 4/5 H
X29-C/6 -CN113 4/5 I
X29-E/6 -CN118 4/5 J
X29-E/6 -CN119 4/5 K

(X14-714X-XX) (B/6)

CN101: VREF, uGND, LCD SDA, LCD SCL, LCD CS, LCD RS

CN100: LCD VDD (+5V), LCD GND, KEY2, D IN, -16V, FL AC, FL AC

+B 4.8V

+5V

ED100 (B38-0233-08)

ED101 (BL-150NK)

RANDOM REPEAT ALL PGM RDS EON TP TA NEWS VCD PBC
CD MD MUTE SLEEP PROG. 1 2 O.T.T. A.P.S. EX.BASS
O.T.E. TAPE EQ. AUTO TUNED LOUD
TAPE REC MD REC ST
TAPE TUNER

IC: 16, 60; 7.3K ×3; V5, VDD, VSS, SDA, SCL, CS, RS

D103

R113 100; C101 0.1; C106 47P; C105 47P; C104 47P; C114 0.01

ED101 FL BACK LIGHT

Q101 -16.0V
R109 13K; R108 6.8K; R112 220
R110 13K; Q100; R111 220
Q100 BACK LIGHT DIMMER CONT.
C103 1
C102 1

R101 10K; R102 1K; R103 1.2K; R104 1.5K; R105 2.0K; R106 2.4K
S100 SET/DEMO; S101 MENU; S102 SKIP UP; S103 SKIP DOWN; S104 SOUND; S105 AUX

X29-C/6 -CN117 4/5 F

(X14- ) (C/6)

CN102: ENCO1, LED1, ENCO2, LED2, KEY1, REM, NC, VREF, uGND

A100: GND, V OUT, VCC

R133 100; R120 10K; R132 1K; C100 1; +B 4.8V

KEY1, LED1, LED2, GND

R121 1K; R123 1.2K; R122 1.5K; R124 2K; R125 2.4K; R127 3.6K; R126 5.1K
S106 TUNER/BAND; S107 STOP; S108 TAPE REC; S109 TAPE PLAY; S110 MD REC; S111 MD PLAY; S113 MD EJECT; S112 CD PLAY

ENCO2, ENCO1, GND

WH1

WH2

(X14- ) (D/6)

E101: KEY1, LED1, LED2, GND

R134 9.1K; R135 16K; R136 47K
R138 1K; R137 330
RED D105; GRN D104
S114 CD OPEN/CLOSE; S115 POWER; S116 TAPE OPEN/CLOSE

(X14- ) (E/6)

S117

C110 1000P; C111 1000P

WH5

ENCO2, ENCO1, GND

(X14)

Q100 : 2SD1963
Q101 : UN5112 or DTA124EUA

D102 : UDZ5.6B
D103 : UDZ4.3B
D104 : B30-2574-05
D105 : B30-2567-05

SIGNAL LINE
GND LINE
+B LINE
−B LINE

(X29-269XX-X) (A/6)

IC1 (BOTTOM VIEW): Lch VCC, NC, Lch IN, Lch NF, Lch MUTE, Lch GND, NC, Rch IN, Rch NF, Rch MUTE, R GND

C23 33P; C24 33P

+B 23.2V

-16V AVR: R47 330; Q8; R48 47K; -16.0V
C9 10P; C10 10P; R13 20K; R14 20K; R15 390; R16 390
R1 2.2K; C33 47u25; C1 2.2u50; R3 1K; C7 560P; C8 560P; C6 10u16; C5 10u16
R9 22K; R5 2.2K; Q1; R7 20K; C3 1000P
MUTING; R10 22K; R6 2.2K; Q2; R8 20K; C4 1000P; R12 1K
R2 2.2K; C2 2.2u50; R4 1K

R43 47K; ON: 4.2V OFF: -2.8V; R45 1K; Q7; MUTING CONT.; ON: 4.3V OFF: 4.3V
C31 10u25; R44 10K; R46 47K; R42 1.2K; R41 560; D4
R58 3.3K 1/4W; D5; D6 23.2V; Q13 5.0V; 0V; D7
D23; C79 10u50; D22 D21; R50 1.5K; R64 100K
D24; -16.4V; R67 2.2K 1/4W; C78 47u25; R66 1 1/4W; D44 -22.5V; 21.5V
Q21 -16V AVR

D13; 7.6V; Q10 +7 AVR
D14; Q9; R63 1K
C80 47u25; D43

CN2: Lch, A GND, Rch, HELP, +7V, +7V, +7V R, GND(+7V C), GND(+7V C), GND(+7V), M+12V, +12V, +12V, GND(+12V C), GND(+12V), MD PROTECTION, 5V, A. MUTE, HP. DET, PROTECTION, HP RELAY, SP RELAY, -16V, FL AC, FL AC

(X29)

IC1 : LM4766T
IC2 : TA7812S
IC91 : XC62HR5102P
IC92 : NJM2930F05

Q1,2 : 2SC2878(B)
Q3-5,11,12,91 : 2SC2362(G,H)
Q7 : 2SA933AS(Q,R)
Q8,13,92 : 2SA1016(G,H)
Q9 : 2SC4081(R,S) or 2SC4116(Y,GR)
Q10 : 2SD2061 or 2SD2021
Q21 : 2SB1640

D1 : D3SBA20F03
D2 : D2SBA20F03
D3 : D4SBL20UF03
D4 : RD3.9ES(B2) or MTZJ3.9(B)
D5 : RD5.1ES(B2) or MTZJ5.1(B)
D6,7,9-16,90,92-99 : MA111
D8 : 1SS133 or HSS104A
D21,23 : RD10ES(B2) or MTZJ10(B)
D22 : RD6.8ES(B2) or MTZJ6.8(B)
D24 : RD8.2ES(B2) or MTZJ8.2(B)
D44 : DSK10B-AT
D43 : RD9.1ES(B2) or MTZJ9.1(B)
D91 : S1ZB20(4072)

WH1

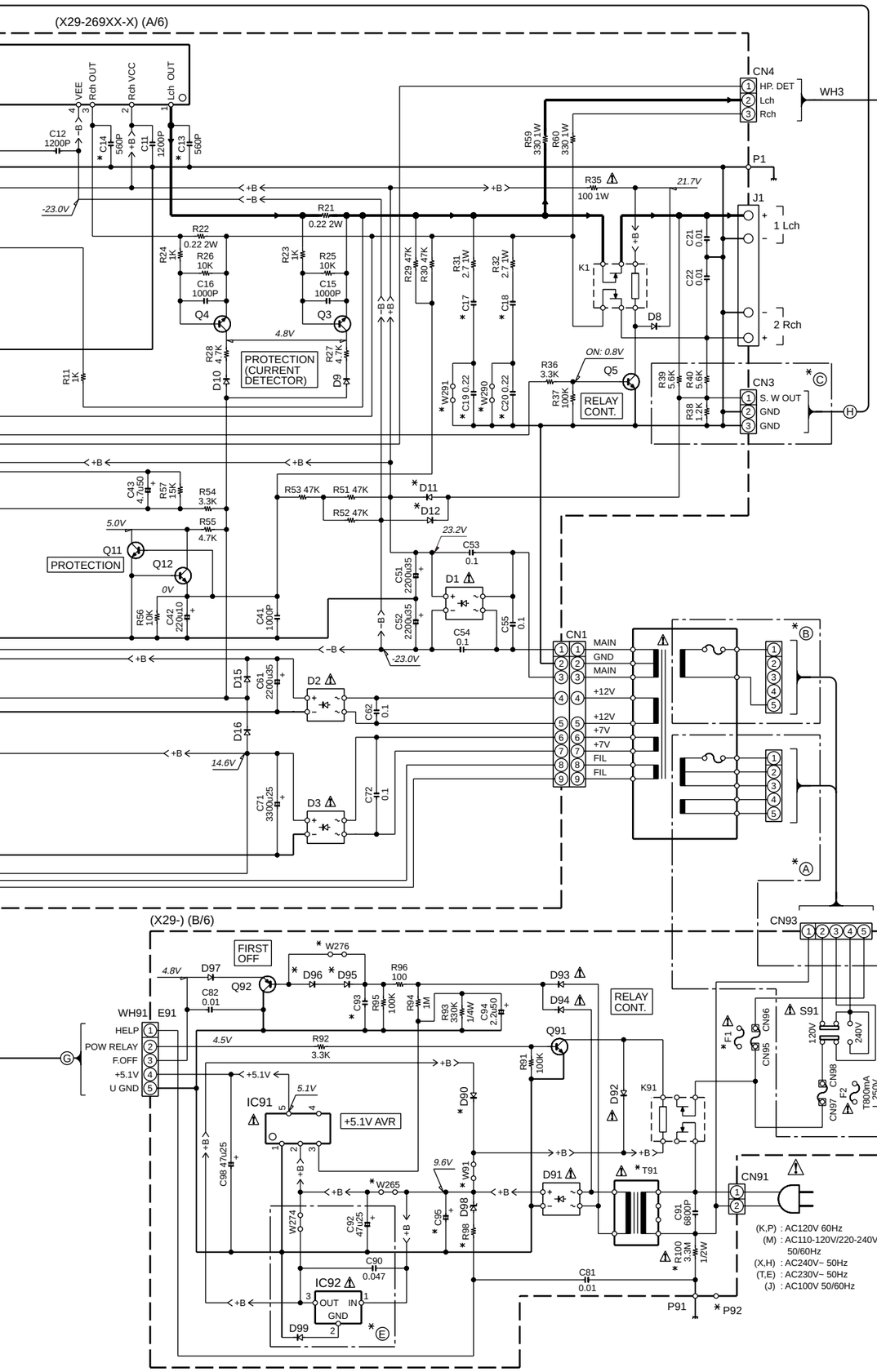
(X29- ) (F/6)

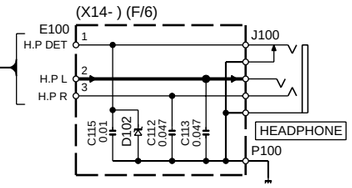
GND, OUT, IN

+12V; C75 0.047; 11.9V; 21.5V

IC2: OUT, IN, GND

C64 1000P; +12V AVR




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

| DESTINATION | | UNIT No. | Ⓐ Ⓔ | Ⓑ Ⓒ | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | | | | | | |
| JAPAN | J,J1,J2 | 0-00 | NO | 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. | Ⓐ Ⓔ | Ⓑ | Ⓒ | 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 | YES | | YES | NO | | YES | NO | 56 1W | | | | 0.18 | 3300u25 | | | T800mA L 250V |
| AUSTRALIA | X | 0-71 | NO | YES | NO | YES | NO | NO | NO | YES | NO | NO | YES | 100 1W | NO | 560P | 0.22 | 0.1 | 3300u16 | T800mA L 250V | NO | L07-2897-08 |
| U.K. | T | 2-71 | | | | | | | | | | | | | | | | | | | | |
| EUROPE | E | | | | | | | | | | | | | | | | | | | | | |
| KOREA | H,H1 | | | | | | | | | | | | | | | | | | | | | |

RXD-M32-S/M32-LS/M32-L/M32-H/M32-Y/M32-W (X29-269X-XX)

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

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

| DESTINATION | | UNIT No. | Ⓐ Ⓒ Ⓔ | Ⓑ | 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. | | | | | | | | | | | | | | | | | | |
| EUROPE | E2,E3 | 2-72 | NO | YES | YES | NO | NO | YES | NO | YES | 100 1W | NO | 560P | 0.22 | 0.1 | 3300u16 | T800mA L 250V | NO | L07-2897-08 |

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

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

RXD-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)

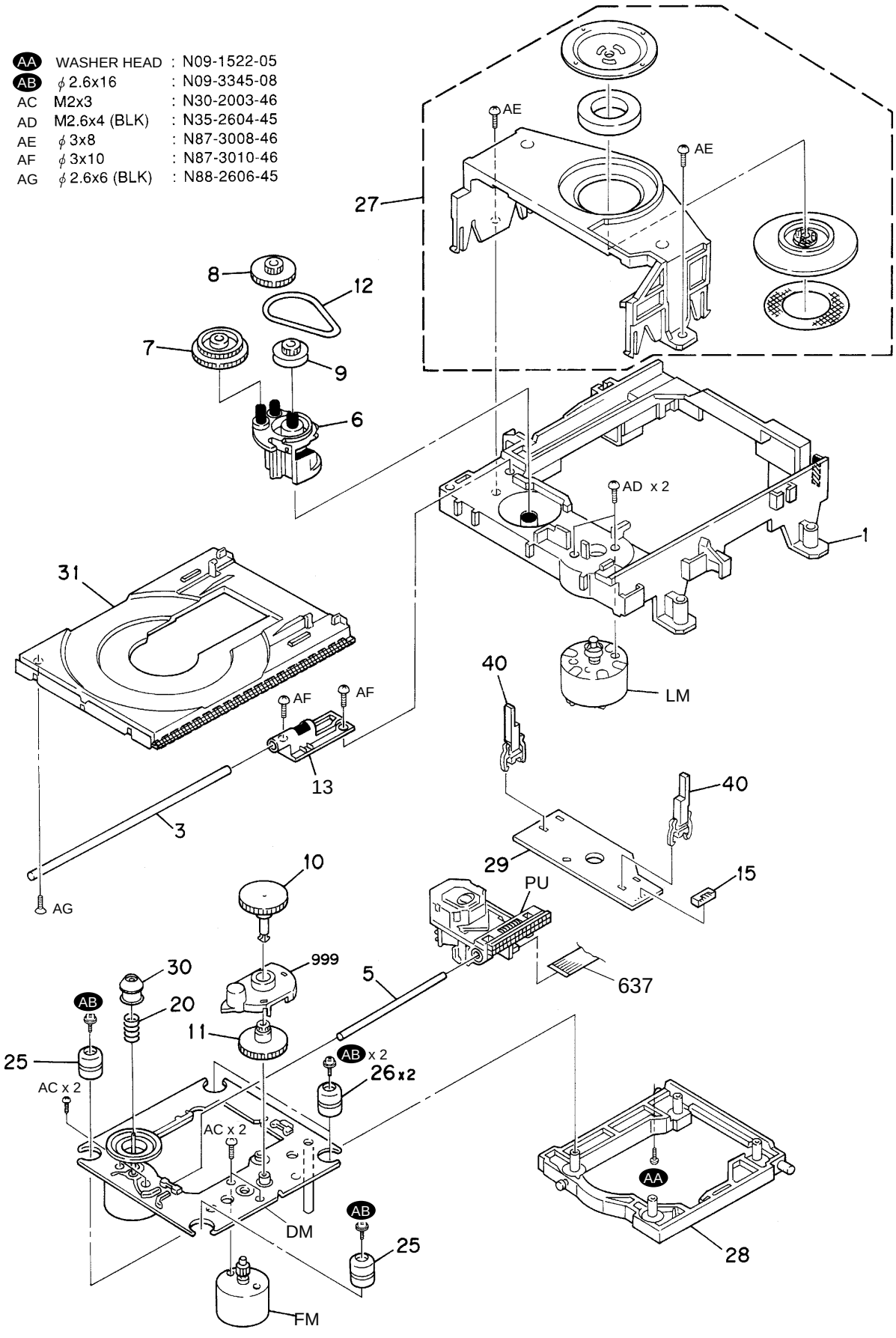
Y39-5350-10

RXD-M32

KENWOOD

# EXPLODED VIEW (CD MECHANISM)

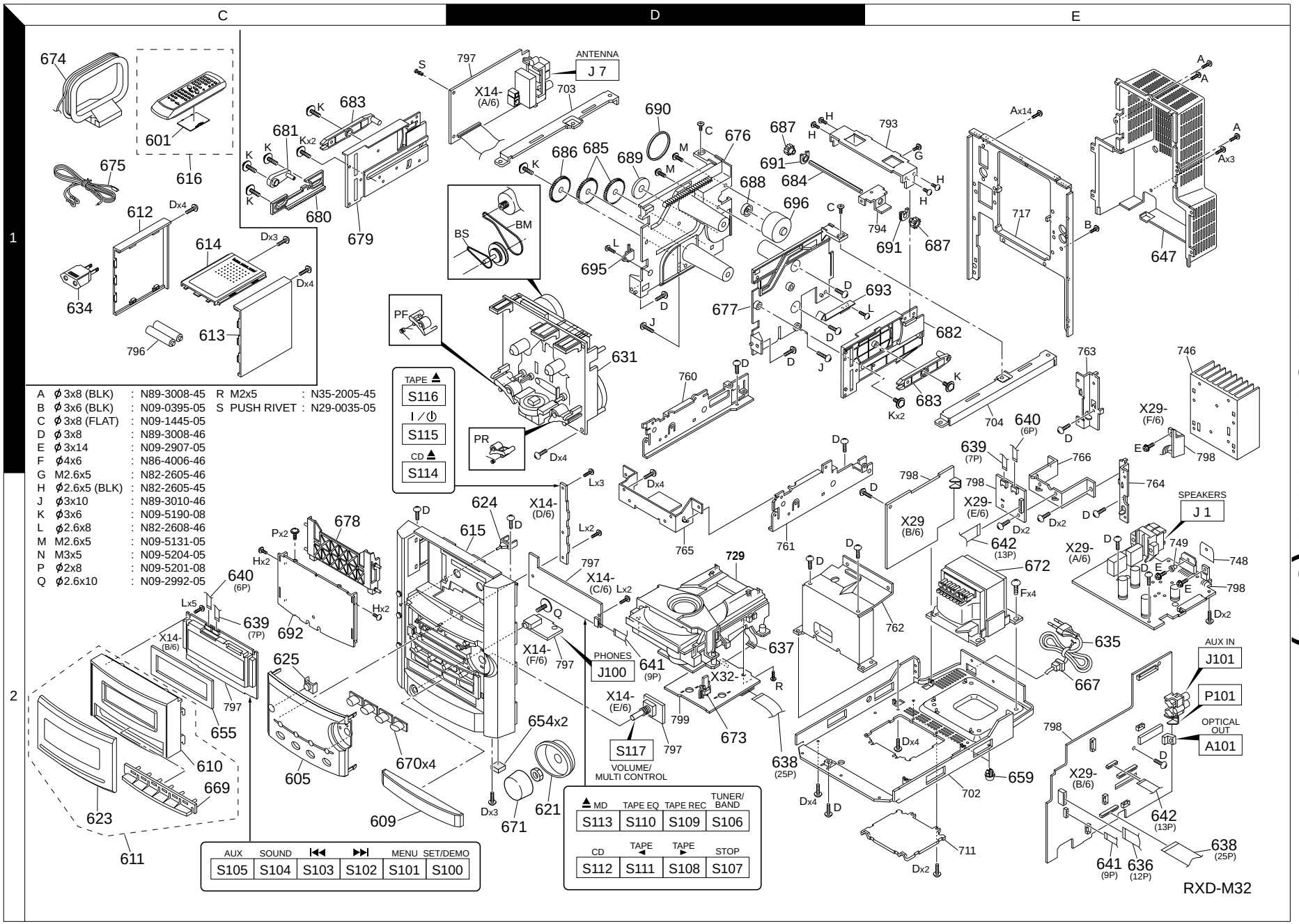
| | | |
|---|---|---|
| AA | WASHER HEAD | : N09-1522-05 |
| AB | ϕ2.6x16 | : N09-3345-08 |
| AC | M2x3 | : N30-2003-46 |
| AD | M2.6x4 (BLK) | : N35-2604-45 |
| AE | ϕ3x8 | : N87-3008-46 |
| AF | ϕ3x10 | : N87-3010-46 |
| AG | ϕ2.6x6 (BLK) | : N88-2606-45 |




Parts with exploded numbers larger than 700 are not supplied.

# RXD-M32

## EXPLODED VIEW (UNIT)




| | | | | | |
|---|---|---|---|---|---|
| A | ϕ3x8 (BLK) | : N89-3008-45 | R | M2x5 | : N35-2005-45 |
| B | ϕ3x6 (BLK) | : N09-0395-05 | S | PUSH RIVET | : N29-0035-05 |
| C | ϕ3x8 (FLAT) | : N09-1445-05 | | | |
| D | ϕ3x8 | : N89-3008-46 | | | |
| E | ϕ3x14 | : N09-2907-05 | | | |
| F | ϕ4x6 | : N86-4006-46 | | | |
| G | M2.6x5 | : N82-2605-46 | | | |
| H | ϕ2.6x5 (BLK) | : N82-2605-45 | | | |
| J | ϕ3x10 | : N89-3010-46 | | | |
| K | ϕ3x6 | : N09-5190-08 | | | |
| L | ϕ2.6x8 | : N82-2608-46 | | | |
| M | M2.6x5 | : N09-5131-05 | | | |
| N | M3x5 | : N09-5204-05 | | | |
| P | ϕ2x8 | : N09-5201-08 | | | |
| Q | ϕ2.6x10 | : N09-2992-05 | | | |

| AUX | SOUND | ⏮ | ⏭ | MENU | SET/DEMO |
|---|---|---|---|---|---|
| S105 | S104 | S103 | S102 | S101 | S100 |

| MD | TAPE EQ | TAPE REC | TUNER/ BAND |
|---|---|---|---|
| S113 | S110 | S109 | S106 |

| CD | TAPE ◀ | TAPE ▶ | STOP |
|---|---|---|---|
| S112 | S111 | S108 | S107 |

Parts with exploded numbers larger than 700 are not supplied.

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

❶

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

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

**Remarks:** Refer to page2 and 18.



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

❷

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

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

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|---|---|---|---|---|---|---|
| 688 | 1D | ✻ | D15-0430-08 | PULLEY | | |
| 689 | 1D | ✻ | D15-0431-08 | PULLEY | | |
| 690 | 1D | ✻ | D16-0747-08 | BELT | | |
| 691 | 1E | ✻ | D23-0337-08 | RETAINER | | |
| 692 | 1D | ✻ | J19-6073-08 | HOLDER | | |
| 693 | 1D | ✻ | G02-1712-08 | FLAT SPRING | | |
| 695 | 1D | | S64-0026-05 | LEVER SWITCH | | |
| 696 | 1D | | T42-0955-05 | DC MOTOR | | |
| D | | | N89-3008-46 | BINDING HEAD TAPTITE SCREW | | |
| G | | | N86-2605-46 | BINDING HEAD TAPTITE SCREW | | |
| H | | | N82-2605-45 | BINDING HEAD TAPTITE SCREW | | |
| K | | ✻ | N09-5190-08 | SET SCREW | | |
| L | | | N82-2608-46 | BINDING HEAD TAPTITE SCREW | | |
| M | | | N09-5131-05 | MACHINE SCREW | | |

## DISPLAY UNIT (X14-714X-XX)

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| - | | ✻ | B11-1509-08 | COLOR FILTER | (BLUE) | | KPMTEH | |
| - | | ✻ | B11-1509-08 | COLOR FILTER | (BLUE) | | XE2 | |
| - | | ✻ | B11-1510-08 | COLOR FILTER | (YELLOW) | | E3 | |
| - | | ✻ | B11-1510-08 | COLOR FILTER | (YELLOW) | | M1E1T1 | |
| D104 | | ✻ | B30-2574-05 | LED(GRN3(80)) | | | | |
| D105 | | | B30-2567-05 | LED(RED(80) HI-BR) | | | | |
| ED100 | | ✻ | B38-0233-08 | LCD DISPLAY ASSY | | | | |
| C1 | | | CK73FB1H223K | CHIP C | 0.022UF | K | | |
| C2 | | | CK73FB1H103K | CHIP C | 0.010UF | K | EE1TT1 | |
| C2 | | | CK73FB1H103K | CHIP C | 0.010UF | K | HE2E3 | |
| C3 | | | CK73FB1H103K | CHIP C | 0.010UF | K | | |
| C5 ,6 | | | CK73FB1H103K | CHIP C | 0.010UF | K | | |
| C7 | | | CE04LW1C470M | ELECTRO | 47UF | 16WV | | |
| C10 | | | CE04LW1C470M | ELECTRO | 47UF | 16WV | | |
| C11 ,12 | | | CK73FB1H473K | CHIP C | 0.047UF | K | | |
| C14 | | | CE04LW1C100M | ELECTRO | 10UF | 16WV | | |
| C15 | | | CE04LW1H010M | ELECTRO | 1.0UF | 50WV | | |
| C16 | | | CE04RW1HR47M | ELECTRO | 0.47UF | 50WV | | |
| C17 | | | CE04LW1H010M | ELECTRO | 1.0UF | 50WV | | |
| C18 | | | CC73FCH1H470J | CHIP C | 47PF | J | | |
| C19 | | | CE04RW1A100M | ELECTRO | 10UF | 10WV | | |
| C20 | | | CK73FB1H473K | CHIP C | 0.047UF | K | | |
| C21 | | | CE04RW1V3R3M | ELECTRO | 3.3UF | 35WV | | |
| C22 | | | CK73FB1H473K | CHIP C | 0.047UF | K | | |
| C23 | | | CE04LW1C100M | ELECTRO | 10UF | 16WV | | |
| C24 | | | CK73FB1H331K | CHIP C | 330PF | K | | |
| C25 | | | CC73FCH1H181J | CHIP C | 180PF | J | EE1TT1 | |
| C25 | | | CC73FCH1H181J | CHIP C | 180PF | J | HE2E3 | |
| C25 | | | CC73FCH1H471J | CHIP C | 470PF | J | KPMM1X | |
| C26 | | | CK73FB1H183K | CHIP C | 0.018UF | K | EE1TT1 | |
| C26 | | | CK73FB1H183K | CHIP C | 0.018UF | K | HE2E3 | |
| C26 | | | CK73FB1H223K | CHIP C | 0.022UF | K | KPMM1X | |
| C27 | | | CE04HW1E4R7M | NP-ELEC | 4.7UF | 25WV | | |
| C28 ,29 | | | CE04LW1H2R2M | ELECTRO | 2.2UF | 50WV | | |
| C30 ,31 | | | CK73FB1H223K | CHIP C | 0.022UF | K | E1TT1H | |
| C30 ,31 | | | CK73FB1H223K | CHIP C | 0.022UF | K | E2E3 | |
| C30 ,31 | | | CK73FB1H223K | CHIP C | 0.022UF | K | MM1XE | |
| C30 ,31 | | | CK73FB1H333K | CHIP C | 0.033UF | K | KP | |
| C32 | | | CE04LW1V4R7M | ELECTRO | 4.7UF | 35WV | | |

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|---|---|---|---|---|---|---|---|---|
| C33 ,34 | | | CK73FB1H103K | CHIP C | 0.010UF | K | MM1 | |
| C35 | | | CK73FB1H332K | CHIP C | 3300PF | K | KPMM1X | |
| C36 | | | CK73FB1H103K | CHIP C | 0.010UF | K | | |
| C37 ,38 | | | CE04LW1C100M | ELECTRO | 10UF | 16WV | | |
| 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 | 16WV | | |
| C47 | | | CK73FB1H102K | CHIP C | 1000PF | K | | |
| C48 | | | CE04LW1C470M | ELECTRO | 47UF | 16WV | | |
| C49 | | | CE04LW1H2R2M | ELECTRO | 2.2UF | 50WV | | |
| 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 | EE1TT1 | |
| C70 ,71 | | | CK73FB1H682K | CHIP C | 6800PF | K | HE2E3 | |
| C72 | | | CE04LW1H010M | ELECTRO | 1.0UF | 50WV | | |
| C73 | | | CE04LW1C470M | ELECTRO | 47UF | 16WV | | |
| C74 | | | CK73FB1H102K | CHIP C | 1000PF | K | KP | |
| 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 | MM1X | |
| C79 ,80 | | | CK73FB1H472K | CHIP C | 4700PF | K | KP | |
| C79 ,80 | | | CK73FB1H682K | CHIP C | 6800PF | K | EE1HE2 | |
| C79 ,80 | | | CK73FB1H682K | CHIP C | 6800PF | K | E3 | |
| C81 | | | CK73FF1C105Z | CHIP C | 1.0UF | Z | | |
| C82 | | | CK73FB1H103K | CHIP C | 0.010UF | K | | |
| C83 | | | CC73FSL1H101J | CHIP C | 100PF | J | E2E3 | |
| C83 | | | CC73FSL1H101J | CHIP C | 100PF | J | KPEE1H | |
| C83 | | | CK73FB1H223K | CHIP C | 0.022UF | K | MM1X | |
| 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 | KPMM1X | |
| 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 | | | E3 | |
| CN4 | | | E40-4871-05 | PIN ASSY | | | KPEE1T | |
| CN4 | | | E40-4871-05 | PIN ASSY | | | T1HE2 | |
| 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(2P,F) | | | | |
| J7 | | | E70-0052-05 | LOCK TERMINAL BOARD | | | | |
| J100 | | | E11-0200-05 | MINIATURE PHONE JACK(5P) | | | | |

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|---|---|---|---|---|---|---|---|---|---|
| E1 | | ✻ | F10-1165-08 | SHIELDING PLATE | | | | KPMM1X | |
| E1 | | ✻ | F10-1166-08 | SHIELDING PLATE | | | | EE1TT1 | |
| E1 | | ✻ | F10-1166-08 | SHIELDING PLATE | | | | HE2E3 | |
| - | | ✻ | 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 | | | | MM1X | |
| CF1 ,2 | | | L72-0536-05 | CERAMIC FILTER | | | | EE1TT1 | |
| CF1 ,2 | | | L72-0536-05 | CERAMIC FILTER | | | | HE2E3 | |
| CF1 ,2 | | | L72-0596-05 | CERAMIC FILTER | | | | KP | |
| CF3 | | | L72-0607-05 | CERAMIC FILTER | | | | MM1X | |
| L1 | | | L39-1384-05 | COMBINATION COIL | | | | | |
| L2 | | | L40-1091-17 | SMALL FIXED INDUCTOR(1UH) | | | | | |
| L3 | | | L30-0911-05 | AM IFT | | | | | |
| L4 | | | L30-0933-05 | FM IFT | | | | KP | |
| L4 | | | L30-0950-05 | FM IFT | | | | EE1TT1 | |
| L4 | | | L30-0950-05 | FM IFT | | | | HE2E3 | |
| L5 | | | L30-0951-05 | FM IFT | | | | EE1TT1 | |
| L5 | | | L30-0951-05 | FM IFT | | | | HE2E3 | |
| L6 ,7 | | | L79-1236-05 | LC FILTER | | | | EE1TT1 | |
| L6 ,7 | | | L79-1236-05 | LC FILTER | | | | HE2E3 | |
| X1 | | | L77-2232-05 | CRYSTAL RESONATOR | | | | | |
| R1 | | | RK73GB1J101J | CHIP R | 100 | J | 1/16W | | |
| R4 | | | RK73GB1J681J | CHIP R | 680 | J | 1/16W | | |
| R5 | | | RK73FB2A332J | CHIP R | 3.3K | J | 1/10W | | |
| R6 | | | RK73GB1J221J | CHIP R | 220 | J | 1/16W | | |
| R7 | | | RK73FB2A821J | CHIP R | 820 | J | 1/10W | | |
| R8 | | | RK73GB1J100J | CHIP R | 10 | J | 1/16W | EE1TT1 | |
| R8 | | | RK73GB1J100J | CHIP R | 10 | J | 1/16W | HE2E3 | |
| R8 | | | RK73GB1J330J | CHIP R | 33 | J | 1/16W | KPMM1X | |
| R9 | | | RK73FB2A391J | CHIP R | 390 | J | 1/10W | | |
| R10 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R11 | | | RK73GB1J220J | CHIP R | 22 | J | 1/16W | EE1TT1 | |
| R11 | | | RK73GB1J220J | CHIP R | 22 | J | 1/16W | HE2E3 | |
| R11 | | | RK73GB1J330J | CHIP R | 33 | J | 1/16W | KPMM1X | |
| R12 | | | RK73FB2A101J | CHIP R | 100 | J | 1/10W | | |
| R14 | | | RK73FB2A101J | CHIP R | 100 | J | 1/10W | E3 | |
| R14 | | | RK73FB2A101J | CHIP R | 100 | J | 1/10W | KPEE1T | |
| R14 | | | RK73FB2A101J | CHIP R | 100 | J | 1/10W | T1HE2 | |
| R14 | | | RK73FB2A271J | CHIP R | 270 | J | 1/10W | MM1X | |
| R15 | | | RK73GB1J333J | CHIP R | 33K | J | 1/16W | EE1TT1 | |
| R15 | | | RK73GB1J333J | CHIP R | 33K | J | 1/16W | HE2E3 | |
| R15 | | | RK73GB1J472J | CHIP R | 4.7K | J | 1/16W | KP | |
| R16 | | | RK73GB1J220J | CHIP R | 22 | J | 1/16W | | |
| R17 | | | RK73FB2A362J | CHIP R | 3.6K | J | 1/10W | | |
| R18 | | | RK73GB1J302J | CHIP R | 3.0K | J | 1/16W | | |
| R19 | | | RK73GB1J822J | CHIP R | 8.2K | J | 1/16W | | |
| R20 | | | RK73GB1J392J | CHIP R | 3.9K | J | 1/16W | | |
| R23 | | | RK73GB1J153J | CHIP R | 15K | J | 1/16W | EE1TT1 | |
| R23 | | | RK73GB1J153J | CHIP R | 15K | J | 1/16W | HE2E3 | |
| R23 | | | RK73GB1J332J | CHIP R | 3.3K | J | 1/16W | MM1X | |
| R23 | | | RK73GB1J822J | CHIP R | 8.2K | J | 1/16W | KP | |

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

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|---|---|---|---|---|---|---|---|---|---|
| R111,112 | | | RK73GB1J221J | CHIP R | 220 | J | 1/16W | | |
| R113 | | | RK73GB1J101J | CHIP R | 100 | J | 1/16W | | |
| R120 | | | RK73GB1J103J | CHIP R | 10K | J | 1/16W | | |
| R121 | | | RK73GB1J102J | CHIP R | 1.0K | J | 1/16W | | |
| R122 | | | RK73GB1J152J | CHIP R | 1.5K | J | 1/16W | | |
| R123 | | | RK73GB1J122J | CHIP R | 1.2K | J | 1/16W | | |
| R124 | | | RK73GB1J202J | CHIP R | 2.0K | J | 1/16W | | |
| R125 | | | RK73GB1J242J | CHIP R | 2.4K | J | 1/16W | | |
| R126 | | | RK73GB1J512J | CHIP R | 5.1K | J | 1/16W | | |
| R127 | | | RK73GB1J362J | CHIP R | 3.6K | J | 1/16W | | |
| R132 | | | RK73GB1J102J | CHIP R | 1.0K | J | 1/16W | | |
| R133 | | | RK73GB1J101J | CHIP R | 100 | J | 1/16W | | |
| R134 | | | RK73GB1J912J | CHIP R | 9.1K | J | 1/16W | | |
| R135 | | | RK73GB1J163J | CHIP R | 16K | J | 1/16W | | |
| R136 | | | RK73GB1J473J | CHIP R | 47K | J | 1/16W | | |
| R137 | | | RK73GB1J331J | CHIP R | 330 | J | 1/16W | | |
| R138 | | | RK73GB1J102J | CHIP R | 1.0K | J | 1/16W | | |
| VR1 | | | R32-0037-05 | SEMI FIXED VARIABLE RESISTOR | | | | | |
| W651,652 | | | R92-0670-05 | CHIP R | 0 OHM | | | | |
| W654-656 | | | R92-0670-05 | CHIP R | 0 OHM | | | M1M2 | |
| W654,655 | | | R92-0670-05 | CHIP R | 0 OHM | | | K1E1E2 | |
| W654,655 | | | R92-0670-05 | CHIP R | 0 OHM | | | X1 | |
| W659 | | | R92-0670-05 | CHIP R | 0 OHM | | | K1M1M2 | |
| W659 | | | R92-0670-05 | CHIP R | 0 OHM | | | X1 | |
| W659,660 | | | R92-0670-05 | CHIP R | 0 OHM | | | E1E2 | |
| W662 | | | R92-0670-05 | CHIP R | 0 OHM | | | | |
| W680 | | | R92-0679-05 | CHIP R | 0 OHM | | | | |
| W682-685 | | | R92-0679-05 | CHIP R | 0 OHM | | | K1M1M2 | |
| W682-685 | | | R92-0679-05 | CHIP R | 0 OHM | | | X1 | |
| W684,685 | | | R92-0679-05 | CHIP R | 0 OHM | | | E1E2 | |
| S100-116 | | | S70-0031-05 | TACT SWITCH | | | | | |
| S117 | | | T99-0602-05 | ROTARY ENCODER | | | | | |
| D1 | | | DA204U | DIODE | | | | | |
| D1 | | | MA143A | DIODE | | | | | |
| D1 | | | 1SS302 | DIODE | | | | | |
| D3 | | | HZS8.2N(B2) | ZENER DIODE | | | | | |
| D3 | | | MTZJ8.2(B) | ZENER DIODE | | | | | |
| D4 | | | HZS5.1N(B2) | ZENER DIODE | | | | | |
| D4 | | | MTZJ5.1(B) | ZENER DIODE | | | | | |
| D8 | | | MA111 | DIODE | | | | | |
| D11 | | | MA111 | DIODE | | | | EE1TT1 | |
| D11 | | | MA111 | DIODE | | | | HE2E3 | |
| D13 | | | MA111 | DIODE | | | | | |
| D102 | | | UDZ5.6B | ZENER DIODE | | | | | |
| D103 | | ✻ | UDZ4.3B | ZENER DIODE | | | | | |
| ED101 | | ✻ | BL-150NK | FLUORESCENT INDICATOR TUBE | | | | | |
| IC1 | | | LA1837 | ANALOGUE IC | | | | E3 | |
| IC1 | | | LA1837 | ANALOGUE IC | | | | KPEE1T | |
| IC1 | | | LA1837 | ANALOGUE IC | | | | T1HE2 | |
| IC1 | | | LA1838 | ANALOGUE IC | | | | MM1X | |
| IC2 | | | LC72131 | MOS-IC | | | | | |
| Q1 | | | 2SC4081(R,S) | TRANSISTOR | | | | | |
| Q1 | | | 2SD1819A(Q,R) | TRANSISTOR | | | | | |

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|---|---|---|---|---|---|---|---|---|
| Q2 | | | 2SA1576A(R,S) | TRANSISTOR | | | | |
| Q2 | | | 2SB1218A(Q,R) | TRANSISTOR | | | | |
| Q3 ,4 | | | 2SC4081(R,S) | TRANSISTOR | | | MM1 | |
| Q3 ,4 | | | 2SD1819A(Q,R) | TRANSISTOR | | | MM1 | |
| Q6 ,7 | | | 2SC4081(R,S) | TRANSISTOR | | | EE1TT1 | |
| Q6 ,7 | | | 2SC4081(R,S) | TRANSISTOR | | | HE2E3 | |
| Q6 ,7 | | | 2SD1819A(Q,R) | TRANSISTOR | | | EE1TT1 | |
| Q6 ,7 | | | 2SD1819A(Q,R) | TRANSISTOR | | | HE2E3 | |
| Q14 | | | 2SA1576A(R,S) | TRANSISTOR | | | | |
| Q14 | | | 2SB1218A(Q,R) | TRANSISTOR | | | | |
| Q100 | | | 2SD1963 | TRANSISTOR | | | | |
| Q101 | | | DTA124EUA | DIGITAL TRANSISTOR | | | | |
| Q101 | | | UN5112 | DIGITAL TRANSISTOR | | | | |
| A1 | | | W02-2584-05 | FM FRONT-END ASSY | | | EE1TT1 | |
| A1 | | | W02-2584-05 | FM FRONT-END ASSY | | | HE2E3 | |
| A1 | | | W02-2622-05 | FM FRONT-END ASSY | | | KPMM1X | |
| A100 | | | W02-2537-05 | ELECTRIC CIRCUIT MODULE | | | | |
| **CONTROL CIRCUIT (X29-2690-XX)** | | | | | | | | |
| C1 ,2 | | | CE04KW1H2R2M | ELECTRO | 2.2UF | 50WV | | |
| C3 ,4 | | | CK73GB1H102K | CHIP C | 1000PF | K | | |
| C5 ,6 | | | CE04KW1C100M | ELECTRO | 10UF | 16WV | | |
| C7 ,8 | | | CK73GB1H561K | CHIP C | 560PF | K | | |
| C9 ,10 | | | CC73GCH1H100D | CHIP C | 10PF | D | | |
| C11 ,12 | | | CK73GB1H122K | CHIP C | 1200PF | K | | |
| C13 ,14 | | | CK73GB1H561K | CHIP C | 560PF | K | E2E3 | |
| C13 ,14 | | | CK73GB1H561K | CHIP C | 560PF | K | MM1XT | |
| C13 ,14 | | | CK73GB1H561K | CHIP C | 560PF | K | T1EE1H | |
| C15 ,16 | | | CK73GB1H102K | CHIP C | 1000PF | K | | |
| C17 ,18 | | | CQ93FMG1H104J | MYLAR | 0.10UF | J | KP | |
| C17 ,18 | | | CQ93FMG1H224J | MYLAR | 0.22UF | J | E2E3 | |
| C17 ,18 | | | CQ93FMG1H224J | MYLAR | 0.22UF | J | MM1XT | |
| C17 ,18 | | | CQ93FMG1H224J | MYLAR | 0.22UF | J | T1EE1H | |
| C19 ,20 | | | CQ93FMG1H224J | MYLAR | 0.22UF | J | E2E3 | |
| C19 ,20 | | | CQ93FMG1H224J | MYLAR | 0.22UF | J | MM1XT | |
| C19 ,20 | | | CQ93FMG1H224J | MYLAR | 0.22UF | J | T1EE1H | |
| C21 ,22 | | | CK73GB1H103K | CHIP C | 0.010UF | K | | |
| C23 ,24 | | | CC73GCH1H330J | CHIP C | 33PF | J | | |
| C31 | | | CE04HW1E100M | NP-ELEC | 10UF | 25WV | | |
| C33 | | | CE04KW1E470M | ELECTRO | 47UF | 25WV | | |
| C41 | | | CK73GB1H102K | CHIP C | 1000PF | K | | |
| C42 | | | CE04KW1A221M | ELECTRO | 220UF | 10WV | | |
| C43 | | | CE04KW1H4R7M | ELECTRO | 4.7UF | 50WV | | |
| C51 ,52 | | ✻ | C90-3928-05 | ELECTRO | 2200UF | 35WV | | |
| C53 -55 | | | C91-1567-05 | FILM | 0.1UF | J | | |
| C61 | | | CE04KW1V222M | ELECTRO | 2200UF | 35WV | | |
| C62 | | | CQ93FMG1H104J | MYLAR | 0.10UF | J | | |
| C64 | | | CK73GB1H102K | CHIP C | 1000PF | K | | |
| C71 | | | CE04KW1E332M | ELECTRO | 3300UF | 25WV | | |
| C72 | | | CQ93FMG1H104J | MYLAR | 0.10UF | J | | |
| C75 | | | CQ93FMG1H473J | MYLAR | 0.047UF | J | | |
| C78 | | | CE04DW1V221M | ELECTRO | 220UF | 35WV | | |
| C79 | | | CE04KW1H100M | ELECTRO | 10UF | 50WV | | |
| C80 | | | CE04KW1E470M | ELECTRO | 47UF | 25WV | | |
| C81 ,82 | | | CK73GB1H103K | CHIP C | 0.010UF | K | | |

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

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⓫

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|---|---|---|---|---|---|---|---|---|
| C186 | | | CQ93HP2A103J | MYLAR | 0.010UF | J | | |
| C187 | | | CE04KW1C220M | ELECTRO | 22UF | 16WV | | |
| C205 | | | CK73GB1C104K | CHIP C | 0.10UF | K | | |
| C206 | | | CE04KW1A101M | ELECTRO | 100UF | 10WV | | |
| C211 | | | CK73GB1C104K | CHIP C | 0.10UF | K | | |
| C212 | | | CE04KW1A470M | ELECTRO | 47UF | 10WV | HE2E3 | |
| C212 | | | CE04KW1A470M | ELECTRO | 47UF | 10WV | TT1EE1 | |
| C213 | | | CK73GB1H103K | CHIP C | 0.010UF | K | HE2E3 | |
| C213 | | | CK73GB1H103K | CHIP C | 0.010UF | K | TT1EE1 | |
| C214 | | | CC73GCH1H220J | CHIP C | 22PF | J | HE2E3 | |
| C214 | | | CC73GCH1H220J | CHIP C | 22PF | J | TT1EE1 | |
| C215 | | | CC73GCH1H470J | CHIP C | 47PF | J | HE2E3 | |
| C215 | | | CC73GCH1H470J | CHIP C | 47PF | J | TT1EE1 | |
| C216 | | | CC73GCH1H561J | CHIP C | 560PF | J | HE2E3 | |
| C216 | | | CC73GCH1H561J | CHIP C | 560PF | J | TT1EE1 | |
| C217 | | | CK73GB1H103K | CHIP C | 0.010UF | K | HE2E3 | |
| C217 | | | CK73GB1H103K | CHIP C | 0.010UF | K | TT1EE1 | |
| C218 | | | CC73GCH1H331J | CHIP C | 330PF | J | HE2E3 | |
| C218 | | | CC73GCH1H331J | CHIP C | 330PF | J | TT1EE1 | |
| C219 | | | CE04KW1H2R2M | ELECTRO | 2.2UF | 50WV | HE2E3 | |
| C219 | | | CE04KW1H2R2M | ELECTRO | 2.2UF | 50WV | TT1EE1 | |
| C220 | | | CC73GCH1H101J | CHIP C | 100PF | J | HE2E3 | |
| C220 | | | CC73GCH1H101J | CHIP C | 100PF | J | TT1EE1 | |
| C222 | | | CE04KW1A101M | ELECTRO | 100UF | 10WV | | |
| C225,226 | | | CC73GCH1H080D | CHIP C | 8.0PF | D | | |
| C231 | | | CE04KW1C471M | ELECTRO | 470UF | 16WV | | |
| C232 | | | CC73GCH1H470J | CHIP C | 47PF | J | | |
| C234 | | | CE04KW1C331M | ELECTRO | 330UF | 16WV | | |
| C235 | | | CE04KW1E331M | ELECTRO | 330UF | 25WV | | |
| C243 | | | CC73GCH1H220J | CHIP C | 22PF | J | | |
| C245 | | | CK73GB1H103K | CHIP C | 0.010UF | K | | |
| C246 | | | CK73GB1H102K | CHIP C | 1000PF | K | | |
| C247 | | | CC73GCH1H101J | CHIP C | 100PF | J | | |
| C248 | | | CK73GB1H102K | CHIP C | 1000PF | K | | |
| CN1 | | | E40-5066-05 | PIN ASSY | | | | |
| CN2 | | | E40-8605-05 | PIN ASSY | | | | |
| CN4 | | | E40-3247-05 | PIN ASSY | | | | |
| CN91 | | | E40-4245-05 | PIN ASSY | | | | |
| CN93 | | | E40-4281-05 | PIN ASSY | | | | |
| CN101 | | | E40-3251-05 | PIN ASSY | | | | |
| CN102 | | | E40-4899-05 | FLAT CABLE CONNECTOR | | | | |
| CN103 | | | E40-4874-05 | PIN ASSY | | | | |
| CN106 | | | E40-3259-05 | PIN ASSY | | | | |
| CN108 | | | E40-3249-05 | PIN ASSY | | | | |
| CN109 | | ✻ | E40-8601-05 | FLAT CABLE CONNECTOR | | | | |
| CN111 | | | E40-3249-05 | PIN ASSY | | | | |
| CN113 | | ✻ | E40-8606-05 | PIN ASSY | | | | |
| CN114 | | | E40-3249-05 | PIN ASSY | | | | |
| CN115,116 | | ✻ | E40-8634-05 | FLAT CABLE CONNECTOR | | | | |
| CN117 | | ✻ | E40-8603-05 | FLAT CABLE CONNECTOR | | | | |
| CN118 | | ✻ | E40-8635-05 | FLAT CABLE CONNECTOR | | | | |
| CN119 | | ✻ | E40-8613-05 | FLAT CABLE CONNECTOR | | | | |
| J1 | | | E70-0053-05 | LOCK TERMINAL BOARD | | | | |
| J101 | | | E63-0095-05 | PIN JACK | | | | |

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

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|---|---|---|---|---|---|---|---|---|---|
| R91 | | | RK73GB1J104J | CHIP R | 100K | J | 1/16W | | |
| R92 | | | RK73GB1J332J | CHIP R | 3.3K | J | 1/16W | | |
| R94 | | | RK73GB1J105J | CHIP R | 1.0M | J | 1/16W | | |
| R95 | | | RK73GB1J104J | CHIP R | 100K | J | 1/16W | | |
| R96 | | | RK73GB1J101J | CHIP R | 100 | J | 1/16W | | |
| ⚠ R98 | | | RS14KB3A101J | FL-PROOF RS | 100 | J | 1W | EE1HE2 | |
| ⚠ R98 | | | RS14KB3A101J | FL-PROOF RS | 100 | J | 1W | E3 | |
| ⚠ R98 | | | RS14KB3A101J | FL-PROOF RS | 100 | J | 1W | KPXTT1 | |
| ⚠ R98 | | | RS14KB3A560J | FL-PROOF RS | 56 | J | 1W | MM1 | |
| ⚠ R100 | | | R92-1844-05 | CARBON | 3.3M | J | 1/2W | KP | |
| R101 | | | RK73GB1J102J | CHIP R | 1.0K | J | 1/16W | | |
| R102 | | | RK73GB1J103J | CHIP R | 10K | J | 1/16W | | |
| R103 | | | RK73GB1J104J | CHIP R | 100K | J | 1/16W | | |
| R104 | | | RK73GB1J102J | CHIP R | 1.0K | J | 1/16W | | |
| R105 | | | RK73GB1J103J | CHIP R | 10K | J | 1/16W | | |
| ⚠ 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 | | |
| R176-180 | | | RK73GB1J472J | CHIP R | 4.7K | J | 1/16W | | |
| R181 | | | RK73GB1J562J | CHIP R | 5.6K | J | 1/16W | | |
| R182 | | | RK73GB1J473J | CHIP R | 47K | J | 1/16W | | |
| R183 | | | RK73GB1J272J | CHIP R | 2.7K | J | 1/16W | | |
| R184 | | | RK73GB1J473J | CHIP R | 47K | J | 1/16W | | |
| R185 | | | RK73GB1J472J | CHIP R | 4.7K | J | 1/16W | | |
| R186 | | | RK73GB1J102J | CHIP R | 1.0K | J | 1/16W | | |

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|---|---|---|---|---|---|---|---|---|---|
| R199 | | | RK73GB1J473J | CHIP R | 47K | J | 1/16W | | |
| R204 | | | RK73GB1J104J | CHIP R | 100K | J | 1/16W | | |
| R208 | | | RK73GB1J363J | CHIP R | 36K | J | 1/16W | | |
| R209 | | | RK73GB1J473J | CHIP R | 47K | J | 1/16W | | |
| R211 | | | RK73GB1J100J | CHIP R | 10 | J | 1/16W | | |
| R213 | | | RK73GB1J222J | CHIP R | 2.2K | J | 1/16W | HE2E3 | |
| R213 | | | RK73GB1J222J | CHIP R | 2.2K | J | 1/16W | TT1EE1 | |
| R214 | | | RK73GB1J101J | CHIP R | 100 | J | 1/16W | HE2E3 | |
| R214 | | | RK73GB1J101J | CHIP R | 100 | J | 1/16W | TT1EE1 | |
| R215 | | | RK73GB1J473J | CHIP R | 47K | J | 1/16W | HE2E3 | |
| R215 | | | RK73GB1J473J | CHIP R | 47K | J | 1/16W | TT1EE1 | |
| R216 | | | RK73GB1J101J | CHIP R | 100 | J | 1/16W | HE2E3 | |
| R216 | | | RK73GB1J101J | CHIP R | 100 | J | 1/16W | TT1EE1 | |
| R218,219 | | | RK73GB1J472J | CHIP R | 4.7K | J | 1/16W | | |
| R220 | | | RK73GB1J473J | CHIP R | 47K | J | 1/16W | | |
| R221 | | | RK73GB1J102J | CHIP R | 1.0K | J | 1/16W | | |
| R222,223 | | | RK73GB1J472J | CHIP R | 4.7K | J | 1/16W | | |
| R224 | | | RK73GB1J102J | CHIP R | 1.0K | J | 1/16W | | |
| R225,226 | | | RK73GB1J473J | CHIP R | 47K | J | 1/16W | HE2E3 | |
| R225,226 | | | RK73GB1J473J | CHIP R | 47K | J | 1/16W | TT1EE1 | |
| R228 | | | RK73GB1J121J | CHIP R | 120 | J | 1/16W | | |
| R229-231 | | | RK73GB1J101J | CHIP R | 100 | J | 1/16W | | |
| R232,233 | | | RK73GB1J100J | CHIP R | 10 | J | 1/16W | | |
| R234,235 | | | RK73GB1J101J | CHIP R | 100 | J | 1/16W | | |
| R237 | | | RK73GB1J101J | CHIP R | 100 | J | 1/16W | | |
| R238 | | | RK73GB1J561J | CHIP R | 560 | J | 1/16W | | |
| R239 | | | RK73GB1J101J | CHIP R | 100 | J | 1/16W | | |
| R245 | | | RK73GB1J101J | CHIP R | 100 | J | 1/16W | | |
| R247-258 | | | RK73GB1J101J | CHIP R | 100 | J | 1/16W | | |
| R259 | | | RK73GB1J332J | CHIP R | 3.3K | J | 1/16W | | |
| R260 | | | RK73GB1J101J | CHIP R | 100 | J | 1/16W | | |
| R261 | | | RK73GB1J103J | CHIP R | 10K | J | 1/16W | | |
| R262 | | | RK73GB1J102J | CHIP R | 1.0K | J | 1/16W | | |
| R263 | | | RK73GB1J2R2J | CHIP R | 2.2 | J | 1/16W | | |
| R264 | | | RK73GB1J101J | CHIP R | 100 | J | 1/16W | | |
| R266 | | | RS14KB3A1R0J | FL-PROOF RS | 1.0 | J | 1W | | |
| R267 | | | RK73GB1J473J | CHIP R | 47K | J | 1/16W | | |
| R268-274 | | | RK73GB1J101J | CHIP R | 100 | J | 1/16W | | |
| R276-279 | | | RK73GB1J101J | CHIP R | 100 | J | 1/16W | | |
| R280-282 | | | RK73GB1J473J | CHIP R | 47K | J | 1/16W | | |
| R291 | | | RK73GB1J104J | CHIP R | 100K | J | 1/16W | | |
| R292 | | | RK73GB1J104J | CHIP R | 100K | J | 1/16W | MM1 | |
| R292 | | | RK73GB1J123J | CHIP R | 12K | J | 1/16W | EE1TT1 | |
| R292 | | | RK73GB1J123J | CHIP R | 12K | J | 1/16W | HE2E3 | |
| R292 | | | RK73GB1J224J | CHIP R | 220K | J | 1/16W | KP | |
| R292 | | | RK73GB1J473J | CHIP R | 47K | J | 1/16W | X | |
| R294-296 | | | RK73GB1J103J | CHIP R | 10K | J | 1/16W | | |
| R297,298 | | | RK73GB1J153J | CHIP R | 15K | J | 1/16W | | |
| R299 | | | RK73GB1J101J | CHIP R | 100 | J | 1/16W | | |
| ⚠ R300 | | | RD14GB2E5R6J | FL-PROOF RD | 5.6 | J | 1/4W | | |
| R301,302 | | | RK73GB1J123J | CHIP R | 12K | J | 1/16W | | |
| R303 | | | RK73GB1J102J | CHIP R | 1.0K | J | 1/16W | | |
| R305,306 | | | RK73GB1J133J | CHIP R | 13K | J | 1/16W | | |
| R307,308 | | | RK73GB1J182J | CHIP R | 1.8K | J | 1/16W | | |
| VR101,102 | | | R32-0041-05 | SEMI FIXED VARIABLE RESISTOR | | | | | |

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|---|---|---|---|---|---|---|
| W502-504 | | | R92-0670-05 | CHIP R 0 OHM | | |
| W508 | | | R92-0670-05 | CHIP R 0 OHM | E1E2 | |
| W508-510 | | | R92-0670-05 | CHIP R 0 OHM | K1M1M2 | |
| W508-510 | | | R92-0670-05 | CHIP R 0 OHM | X1X2 | |
| W510 | | | R92-0670-05 | CHIP R 0 OHM | E1E2 | |
| W512-517 | | | R92-0679-05 | CHIP R 0 OHM | | |
| W518,519 | | | R92-0670-05 | CHIP R 0 OHM | K1M1M2 | |
| W518,519 | | | R92-0670-05 | CHIP R 0 OHM | X1X2 | |
| W519 | | | R92-0670-05 | CHIP R 0 OHM | E1E2 | |
| W520 | | | R92-0679-05 | CHIP R 0 OHM | M1X1E1 | |
| W522,523 | | | R92-0679-05 | CHIP R 0 OHM | | |
| K1 | | | S76-0076-05 | MAGNETIC RELAY | | |
| K91 | | | S76-0099-05 | MAGNETIC RELAY | | |
| ⚠ S91 | | | S62-0001-05 | SLIDE SWITCH | MM1 | |
| ⚠ D1 | | | D3SBA20F03 | DIODE | | |
| ⚠ D2 | | | D2SBA20F03 | DIODE | | |
| ⚠ D3 | | | D4SBL20UF03 | DIODE | | |
| D4 | | | MTZJ3.9(B) | ZENER DIODE | | |
| D4 | | | RD3.9ES(B2) | ZENER DIODE | | |
| D5 | | | MTZJ5.1(B) | ZENER DIODE | | |
| D5 | | | RD5.1ES(B2) | ZENER DIODE | | |
| D6 ,7 | | | MA111 | DIODE | | |
| D8 | | | HSS104A | DIODE | | |
| D8 | | | 1SS133 | DIODE | | |
| D9 ,10 | | | MA111 | DIODE | | |
| D13 -16 | | | MA111 | DIODE | | |
| D21 | | | MTZJ10(B) | ZENER DIODE | | |
| D21 | | | RD10ES(B2) | ZENER DIODE | | |
| D22 | | | MTZJ6.8(B) | ZENER DIODE | | |
| D22 | | | RD6.8ES(B2) | ZENER DIODE | | |
| D23 | | | MTZJ10(B) | ZENER DIODE | | |
| D23 | | | RD10ES(B2) | ZENER DIODE | | |
| D24 | | | MTZJ8.2(B) | ZENER DIODE | | |
| D24 | | | RD8.2ES(B2) | ZENER DIODE | | |
| D43 | | ✻ | MTZJ9.1(B) | ZENER DIODE | | |
| D43 | | | RD9.1ES(B2) | ZENER DIODE | | |
| ⚠ D44 | | ✻ | DSK10B-AT | DIODE | | |
| D90 | | | MA111 | DIODE | MM1 | |
| ⚠ D91 | | | S1ZB20(4072) | DIODE | | |
| ⚠ D92 -94 | | | MA111 | DIODE | | |
| D95 ,96 | | | MA111 | DIODE | HE2E3 | |
| D95 ,96 | | | MA111 | DIODE | KPXEE1 | |
| D97 ,98 | | | MA111 | DIODE | | |
| D99 | | | MA111 | DIODE | MM1 | |
| D101 | | | 1SS402 | DIODE | | |
| D102 | | | HSS104A | DIODE | | |
| D102 | | | 1SS133 | DIODE | | |
| D103 | | | MTZJ5.6(B) | ZENER DIODE | | |
| D103 | | | RD5.6ES(B2) | ZENER DIODE | | |
| D105 | | | MTZJ5.6(B) | ZENER DIODE | | |
| D105 | | | RD5.6ES(B2) | ZENER DIODE | | |
| D106,107 | | | HSS104A | DIODE | | |
| D106,107 | | | 1SS133 | DIODE | | |
| D111 | | | HSS104A | DIODE | | |

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|---|---|---|---|---|---|---|
| D111 | | | 1SS133 | DIODE | | |
| D115 | | | MA111 | DIODE | | |
| D116 | | | MTZJ5.6(B) | ZENER DIODE | | |
| D116 | | | RD5.6ES(B2) | ZENER DIODE | | |
| ⚠ IC1 | | ✻ | LM4766T | ANALOGUE IC | | |
| ⚠ IC2 | | | TA7812S | ANALOGUE IC | | |
| ⚠ IC91 | | | XC62HR5102P | ANALOGUE IC | | |
| ⚠ IC92 | | ✻ | NJM2930F05 | ANALOGUE IC | MM1 | |
| IC101 | | | S-80840ANY | ANALOGUE IC | | |
| IC103 | | | TA8409S | MOS-IC | | |
| IC104 | | | M30622MA-1A5FP | MI-COM IC | | |
| IC105 | | ✻ | M62498AFP | ANALOGUE IC | | |
| IC106 | | | HA12219NT | ANALOGUE IC | | |
| IC107 | | | BA3126N | ANALOGUE IC | | |
| IC111 | | | TA8409S | MOS-IC | | |
| IC112 | | | L88M33T | ANALOGUE IC | | |
| IC114 | | | SAA6579T/R | ANALOGUE IC | EE1TT1 | |
| IC114 | | | SAA6579T/R | ANALOGUE IC | HE2E3 | |
| Q1 ,2 | | | 2SC2878(B) | TRANSISTOR | | |
| Q3 -5 | | ✻ | 2SC2362(G,H) | TRANSISTOR | | |
| Q7 | | | 2SA933AS(Q,R) | TRANSISTOR | | |
| Q8 | | ✻ | 2SA1016(G,H) | TRANSISTOR | | |
| ⚠ Q9 | | | 2SC4081(R,S) | TRANSISTOR | | |
| ⚠ Q9 | | | 2SC4116(Y,GR) | TRANSISTOR | | |
| ⚠ Q10 | | | 2SD2012 | TRANSISTER | | |
| ⚠ Q10 | | | 2SD2061 | TRANSISTER | | |
| 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 | | |
| Q118 | | | 2SA1286-T11 | TRANSISTOR | | |
| Q119 | | | DTC124ESA | DIGITAL TRANSISTOR | | |
| Q119 | | | UN4212 | DIGITAL TRANSISTOR | | |
| ⚠ Q120 | | | 2SC3246 | TRANSISTOR | | |

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|---|---|---|---|---|---|---|---|---|
| A101 | | | W02-1114-15 | OSCILLATING MODULE | | | | |
| **CD PLAYER UNIT (X32-3810-01)** | | | | | | | | |
| C1 ,2 | | | C92-0084-05 | CHIP C | 100UF | 4WV | | |
| C3 | | | CC73GCH1H220J | CHIP C | 22PF | J | | |
| C5 | | | C92-0084-05 | CHIP C | 100UF | 4WV | | |
| C6 | | | C92-0044-05 | CHIP-ELE | 47UF | 10WV | | |
| C8 | | | CK73FB1H563K | CHIP C | 0.056UF | K | | |
| C9 | | | C92-0085-05 | CHIP C | 220UF | 4WV | | |
| C10 | | | CC73GCH1H471J | CHIP C | 470PF | J | | |
| C11 | | | CK73FB1H223K | CHIP C | 0.022UF | K | | |
| C12 | | | CK73GB1H221K | CHIP C | 220PF | K | | |
| C13 | | | CK73FB1C474K | CHIP C | 0.47UF | K | | |
| C14 | | | CK73GB1H332K | CHIP C | 3300PF | K | | |
| C15 | | | CK73GB1H103K | CHIP C | 0.010UF | K | | |
| C16 | | | CK73GB1C473K | CHIP C | 0.047UF | K | | |
| C17 | | | CK73GB1H152K | CHIP C | 1500PF | K | | |
| C18 ,19 | | | CC73GCH1H150J | CHIP C | 15PF | J | | |
| C20 | | | CK73GB1H103K | CHIP C | 0.010UF | K | | |
| C21 ,22 | | | CC73FCH1H681J | CHIP C | 680PF | J | | |
| C23 ,24 | | | CC73GCH1H101J | CHIP C | 100PF | J | | |
| C29 | | | CK73GB1H221K | CHIP C | 220PF | K | | |
| C30 | | | CK73GB1H103K | CHIP C | 0.010UF | K | | |
| C31 | | | C92-0095-05 | CHIP C | 330UF | 6.3WV | | |
| C32 | | | CC73FSL1H101J | CHIP C | 100PF | J | | |
| C33 | | | CK73GB1H102K | CHIP C | 1000PF | K | | |
| C34 | | | CK73GB1C104K | CHIP C | 0.10UF | K | | |
| C35 | | | C92-0084-05 | CHIP C | 100UF | 4WV | | |
| C36 | | | CK73GB1H103K | CHIP C | 0.010UF | K | | |
| C37 | | | CC73GCH1H101J | CHIP C | 100PF | J | | |
| C38 | | | CK73GB1H102K | CHIP C | 1000PF | K | | |
| CN1 | | | E40-9963-05 | FLAT CABLE CONNECTOR | | | | |
| CN2 | | ✻ | E40-8600-05 | FLAT CABLE CONNECTOR | | | | |
| CN3 | | | E40-3248-05 | PIN ASSY | | | | |
| L1 ,2 | | | L40-1001-31 | SMALL FIXED INDUCTOR (10UH,K) | | | | |
| L4 | | | L40-1001-31 | SMALL FIXED INDUCTOR (10UH,K) | | | | |
| L5 | | | L92-0308-05 | FERRITE CORE | | | | |
| X1 | | ✻ | L77-2295-05 | CRYSTAL RESONATOR (33.8668MHz) | | | | |
| R1 | | | RK73GB1J224J | CHIP R | 220K | J 1/16W | | |
| R6 | | | RK73GB1J224J | CHIP R | 220K | J 1/16W | | |
| R7 | | | RK73GB1J100J | CHIP R | 10 | J 1/16W | | |
| R8 ,9 | | | RK73GB1J273J | CHIP R | 27K | J 1/16W | | |
| R10 | | | RK73GB1J622J | CHIP R | 6.2K | J 1/16W | | |
| R11 ,12 | | | RK73GB1J101J | CHIP R | 100 | J 1/16W | | |
| R13 ,14 | | | RK73GB1J103J | CHIP R | 10K | J 1/16W | | |
| R15 | | | RK73GB1J153J | CHIP R | 15K | J 1/16W | | |
| R16 | | | RK73GB1J273J | CHIP R | 27K | J 1/16W | | |
| R17 | | | RK73GB1J474J | CHIP R | 470K | J 1/16W | | |
| R18 | | | RK73GB1J364J | CHIP R | 360K | J 1/16W | | |
| R19 | | | RK73GB1J102J | CHIP R | 1.0K | J 1/16W | | |
| R20 | | | RK73GB1J472J | CHIP R | 4.7K | J 1/16W | | |
| R21 | | | RK73GB1J182J | CHIP R | 1.8K | J 1/16W | | |
| R23 | | | RK73GB1J154J | CHIP R | 150K | J 1/16W | | |
| R25 | | | RK73GB1J225J | CHIP R | 2.2M | J 1/16W | | |

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|---|---|---|---|---|---|---|---|---|
| R26 ,27 | | | RK73GB1J153J | CHIP R | 15K | J 1/16W | | |
| R28 | | | RK73GB1J104J | CHIP R | 100K | J 1/16W | | |
| R29 | | | RK73GB1J333J | CHIP R | 33K | J 1/16W | | |
| R30 | | | RK73GB1J104J | CHIP R | 100K | J 1/16W | | |
| R31 | | | RK73GB1J105J | CHIP R | 1.0M | J 1/16W | | |
| R32 | | | RK73GB1J103J | CHIP R | 10K | J 1/16W | | |
| R33 ,34 | | | RK73GB1J332J | CHIP R | 3.3K | J 1/16W | | |
| R35 | | | RK73GB1J472J | CHIP R | 4.7K | J 1/16W | | |
| R36 | | | RK73GB1J511J | CHIP R | 510 | J 1/16W | | |
| R40 | | | RK73GB1J471J | CHIP R | 470 | J 1/16W | | |
| R41 ,42 | | | RK73GB1J105J | CHIP R | 1.0M | J 1/16W | | |
| R43 -48 | | | RK73GB1J273J | CHIP R | 27K | J 1/16W | | |
| R49 | | | RK73GB1J100J | CHIP R | 10 | J 1/16W | | |
| R50 | | | RK73GB1J473J | CHIP R | 47K | J 1/16W | | |
| R51 | | | RK73GB1J101J | CHIP R | 100 | J 1/16W | | |
| R52 | | | RK73GB1J221J | CHIP R | 220 | J 1/16W | | |
| R53 | | | RK73GB1J101J | CHIP R | 100 | J 1/16W | | |
| R54 -59 | | | RK73GB1J221J | CHIP R | 220 | J 1/16W | | |
| R60 | | | RK73GB1J101J | CHIP R | 100 | J 1/16W | | |
| R61 ,62 | | | RK73GB1J2R2J | CHIP R | 2.2 | J 1/16W | | |
| R63 | | | RK73GB1J473J | CHIP R | 47K | J 1/16W | | |
| R65 ,66 | | | RK73GB1J104J | CHIP R | 100K | J 1/16W | | |
| R67 ,68 | | | RK73GB1J101J | CHIP R | 100 | J 1/16W | | |
| VR1 | | | R32-0018-05 | SEMI FIXED VARIABLE RESISTOR | | | | |
| D1 ,2 | | | MA111 | DIODE | | | | |
| IC1 | | | CXA1821M | ANALOGUE IC | | | | |
| IC2 | | ✻ | BA5974FP | ANALOGUE IC | | | | |
| IC3 | | ✻ | CXD3017Q | MOS-IC | | | | |
| Q1 | | | 2SA1576A(R,S) | TRANSISTOR | | | | |
| Q4 -6 | | ✻ | 2SK1580 | FET | | | | |
| Q4 -6 | | | 2SK1958 | FET | | | | |
| **CD MECHANISM (D40-1571-05)** | | | | | | | | |
| 1 | 2B | | A10-3325-08 | CHASSSIS | | | | |
| 3 | 2A | | D10-3695-08 | SHAFT(TABLE GUIDE) | | | | |
| 5 | 3A | | D10-3696-08 | SLED SHAFT | | | | |
| 6 | 1A | | D12-0156-08 | CAM | | | | |
| 7 | 1A | | D13-1793-08 | GEAR | (P) | | | |
| 8 | 1A | | D13-1794-08 | GEAR | (C) | | | |
| 9 | 1A | | D13-1795-08 | PULLEY | (S) | | | |
| 10 | 2A | | D13-1796-08 | GEAR | (A)(S) | | | |
| 11 | 3A | | D13-1797-08 | GEAR | (B)(RP) | | | |
| 12 | 1A | | D16-0713-08 | BELT | | | | |
| 13 | 2A | | D23-0328-08 | BEARING | | | | |
| 15 | 2B | | E40-8051-08 | PIN CONNECTOR (PC BORD)5P | | | | |
| 20 | 3A | | G01-3969-08 | SPRING (S) COMPRESSION | | | | |
| 25 | 3A | | J02-1179-08 | PUBBER VIBRTION | | | | |
| 26 | 3A | | J02-1180-08 | PUBBER VIBRTION | | | | |
| 27 | 1A | | J19-5768-08 | HOLDER (MG)(K) ASSY | | | | |
| 28 | 2A | | J19-5769-08 | HOLDER (BU) ASSY | | | | |
| 29 | 2B | | J70-0995-08 | PC BORD LOADING | | | | |
| 30 | 3A | | J90-0846-08 | RING (LO)(S) CENTER | | | | |
| 31 | 2A | | J99-0592-08 | TABLE DISK | | | | |

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# RXD-M32

## PARTS LIST

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

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## SPECIFICATIONS

### *Main unit*

***[Amplifier section]***

(For U.K. and Europe)
Effective output power during STEREO operation
1 kHz, 10 % T.H.D., at 6 Ω ..... 20 W + 20 W
Rated output power during STEREO operation
1 kHz, 0.7 % T.H.D., at 6 Ω ..... 15 W + 15 W
(For U.S.A. and Canada)
Rated output power during STEREO operation

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

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

***[Tuner section]***

FM tuner section
Tuning frequency range ..... 87.5 MHz ~ 108 MHz
MW (AM) tuner section
Tuning frequency range
(For U.S.A. and Canada)
..... 530 kHz ~ 1700 kHz
(For U.K., Europe and Australia)
..... 531 kHz ~ 1,602 kHz
(For other countries)
9 kHz step ..... 531 kHz ~ 1,602 kHz
10 kHz step ..... 530 kHz ~ 1,610 kHz

***[CD player section]***

Laser ..... Semiconductor laser
D/A Conversion ..... 1 Bit
Wow and flutter ..... Less than unmeasurable limit

***[Cassette deck section]***

Track ..... 4-track, 2-channel stereo
Recording system ..... AC bias system
(Frequency: 65 kHz)
Heads
Playback / recording head ..... 1
Erasing head ..... 1
Motors ..... 1
Wow and flutter ..... 0.2 % (W.R.M.S.)
Fast winding time ..... Approx. 100 seconds
(C-60 tape)

***[General]***

Power consumption ..... 60 W
Dimensions W : 180 mm
H : 239 mm
D : 305 mm
Weight (net) ..... 5.4 kg

### *Speakers*

Enclosure ..... Book shelf type, magnetically shielded
Speaker configuration
Woofer ..... 100 mm, cone type
Tweeter ..... 50 mm, cone type
Impedance ..... 6 Ω
Maximum input level ..... 30 W
Dimensions W : 150 mm
H : 234 mm
D : 197 mm
Weight (net) ..... 2.4 kg(1 piece)

Notes

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

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

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

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