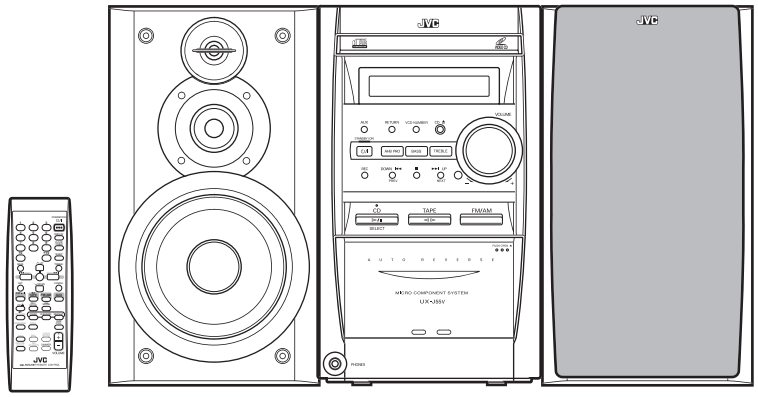
JVC

# SERVICE MANUAL

## MICRO COMPONENT SYSTEM

# UX-J55V



SP-UXJ55V CA-UXJ55V SP-UXJ55V

VIDEO CD COMPACT disc DIGITAL VIDEO COMPACT disc DIGITAL AUDIO

**Area Suffix**

US ---------- Singapore
UN ---------- Asean

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No.MB057
2003/12

# SPECIFICATION

| | | | |
|---|---|---|---|
| Amplifier | Output Power | 120 W (60 W + 60 W) at 6 Ω (10% THD) | |
| | Audio input sensitivity /Impedance (at 1 kHz) | AUX | 400 mV/48 kΩ |
| | Speakers/Impedance | 6 Ω - 16 Ω | |
| Tuner | FM tuning range | 87.50 MHz - 108.00 MHz | |
| | AM tuning range | AM 10 kHz intervals | 530 kHz - 1 710 kHz |
| | | AM 9 kHz intervals | 531 kHz - 1 710 kHz |
| CD player | Dynamic range | 85 dB | |
| | Signal-to-noise ratio | 90 dB | |
| | Wow and flutter | Immeasurable | |
| Cassette deck | Frequency response | Normal (type I) | 60 Hz - 14 000 Hz |
| | Wow and flutter | 0.15% (WRMS) | |
| Speaker SP-UXJ55V | Speaker units | Woofer | 12.0 cm cone × 1 |
| | | Midrange | 4.0 cm cone × 1 |
| | | Tweeter | 2.0 cm dome × 1 |
| | Impedance | 6 Ω | |
| | Dimensions (approx.) | 160 mm × 285 mm × 181.5 mm (W/H/D) | |
| | Mass (approx.) | 2.4 kg each | |
| General | Power requirement | AC 110 V/ 127 V/ 220 V/ 230 V - 240 V , adjustable with the voltage selector, 50 Hz/60 Hz | |
| | Power consumption | 130 W (at operation) | |
| | | 3.4 W (on standby) | |
| | Dimensions (approx.) | 490 mm × 286 mm × 323.3 mm (W/H/D) | |
| | Mass (approx.) | 10.3 kg | |

Design and specifications are subject to change without notice.

# SECTION 1
# PRECAUTION

## 1.1 Safety Precautions

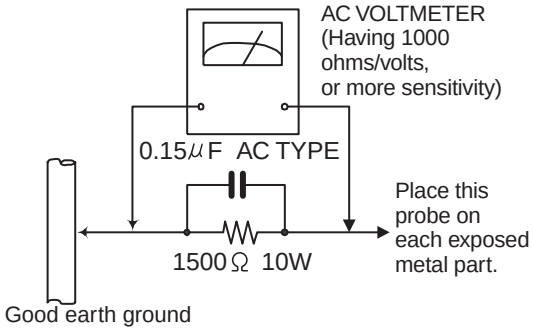
(1) This design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.

(2) Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturers warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.

(3) Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (⚠) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.

(4) The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after reassembling.

(5) Leakage shock hazard testing
After reassembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.Do not use a line isolation transformer during this check.
- Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal parts of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC (r.m.s.).
- Alternate check method
Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000Ω per volt or more sensitivity in the following manner. Connect a 1,500Ω 10W resistor paralleled by a 0.15μF AC-type capacitor between an exposed metal part and a known good earth ground.
Measure the AC voltage across the resistor with the AC voltmeter.
Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Voltage measured any must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).




## 1.2 Warning

(1) This equipment has been designed and manufactured to meet international safety standards.
(2) It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
(3) Repairs must be made in accordance with the relevant safety standards.
(4) It is essential that safety critical components are replaced by approved parts.
(5) If mains voltage selector is provided, check setting for local voltage.

## 1.3 Caution

**Burrs formed during molding may be left over on some parts of the chassis.**
**Therefore, pay attention to such burrs in the case of preforming repair of this system.**

## 1.4 Critical parts for safety

In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor ( ▬ ), diode ( ▮ ) and ICP ( ● ) or identified by the " ⚠ " mark nearby are critical for safety. When replacing them, be sure to use the parts of the same type and rating as specified by the manufacturer.
(This regulation dose not Except the J and C version)

### 1.5 Preventing static electricity

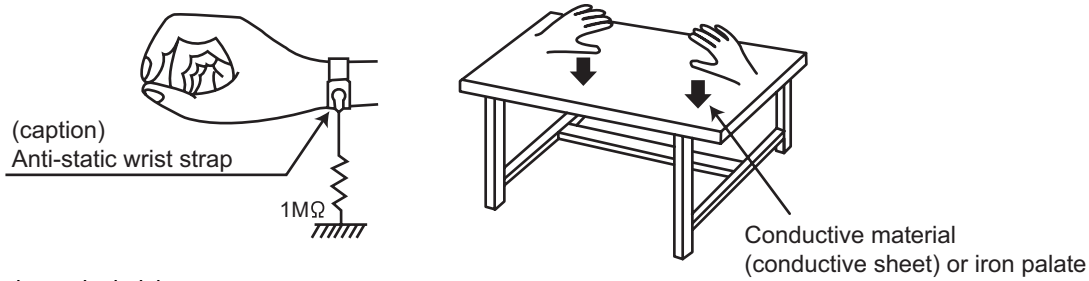
Electrostatic discharge (ESD), which occurs when static electricity stored in the body, fabric, etc. is discharged, can destroy the laser diode in the traverse unit (optical pickup). Take care to prevent this when performing repairs.

#### 1.5.1 Grounding to prevent damage by static electricity

Static electricity in the work area can destroy the optical pickup (laser diode) in devices such as CD players.
Be careful to use proper grounding in the area where repairs are being performed.

(1) Ground the workbench
Ground the workbench by laying conductive material (such as a conductive sheet) or an iron plate over it before placing the traverse unit (optical pickup) on it.

(2) Ground yourself
Use an anti-static wrist strap to release any static electricity built up in your body.




(3) Handling the optical pickup

- In order to maintain quality during transport and before installation, both sides of the laser diode on the replacement optical pickup are shorted. After replacement, return the shorted parts to their original condition. (Refer to the text.)
- Do not use a tester to check the condition of the laser diode in the optical pickup. The tester's internal power source can easily destroy the laser diode.

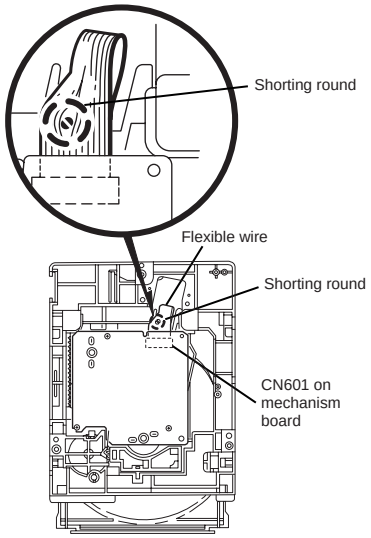
### 1.6 Handling the traverse unit (optical pickup)

(1) Do not subject the traverse unit (optical pickup) to strong shocks, as it is a sensitive, complex unit.
(2) Cut off the shorted part of the flexible cable using nippers, etc. after replacing the optical pickup. For specific details, refer to the replacement procedure in the text. Remove the anti-static pin when replacing the traverse unit. Be careful not to take too long a time when attaching it to the connector.
(3) Handle the flexible cable carefully as it may break when subjected to strong force.
(4) I t is not possible to adjust the semi-fixed resistor that adjusts the laser power. Do not turn it.

### 1.7 Attention when traverse unit is decomposed

***Please refer to "Disassembly method" in the text for the CD pickup unit.**

- Apply solder to the short land sections before the flexible wire is disconnected from the connector CN601 on the CD servo board. (If the flexible wire is disconnected without applying solder, the CD pickup may be destroyed by static electricity.)
- In the assembly, be sure to remove solder from the short land sections after connecting the flexible wire.



### 1.8 Important for laser products

**1.CLASS 1 LASER PRODUCT**

**2.DANGER :** Invisible laser radiation when open and inter lock failed or defeated. Avoid direct exposure to beam.

**3.CAUTION :** There are no serviceable parts inside the Laser Unit. Do not disassemble the Laser Unit. Replace the complete Laser Unit if it malfunctions.

**4.CAUTION :** The compact disc player uses invisible laser radiation and is equipped with safety switches which prevent emission of radiation when the drawer is open and the safety interlocks have failed or are de feated. It is dangerous to defeat the safety switches.

**5.CAUTION :** If safety switches malfunction, the laser is able to function.

**6.CAUTION :** Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

⚠ ***CAUTION*** **Please use enough caution not to see the beam directly or touch it in case of an adjustment or operation check.**

**VARNING :** Osynlig laserstrålning är denna del är öppnad och spårren är urkopplad. Betrakta ej strålen.

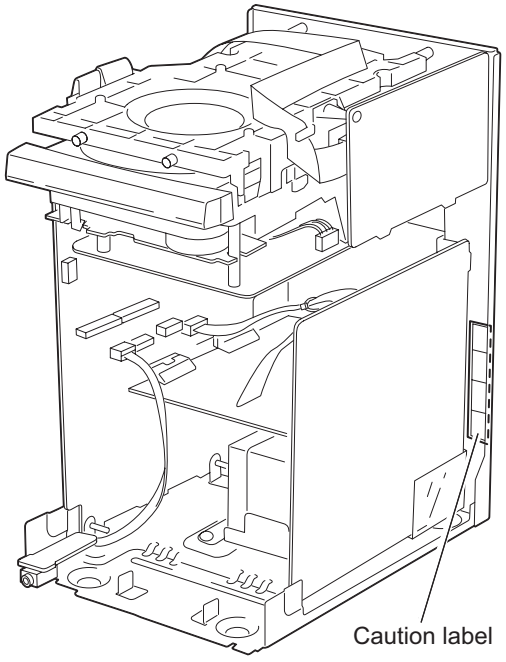
**VARO :** Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle.Älä katso säteeseen.

**ADVARSEL :** Usynlig laserstråling ved åbning , når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

**ADVARSEL :** Usynlig laserstråling ved åpning,når sikkerhetsbryteren er avslott. unngå utsettelse for stråling.

REPRODUCTION AND POSITION OF LABEL and PRINT

**WARNING LABEL and PRINT**



# SECTION 2
# SPECIFIC SERVICE INSTRUCTIONS

This service manual does not describe SPECIFIC SERVICE INSTRUCTIONS.

# SECTION 3
# DISASSEMBLY

### 3.1 Main body

#### 3.1.1 Removing the metal cover (See Fig.1~3)

(1) Pull out the MIC volume knob on top of the body.
(2) Remove the six screws **A** on the back of the main body.
(3) Remove the two screws **B** on each side and remove the metal cover in the direction of the arrow.

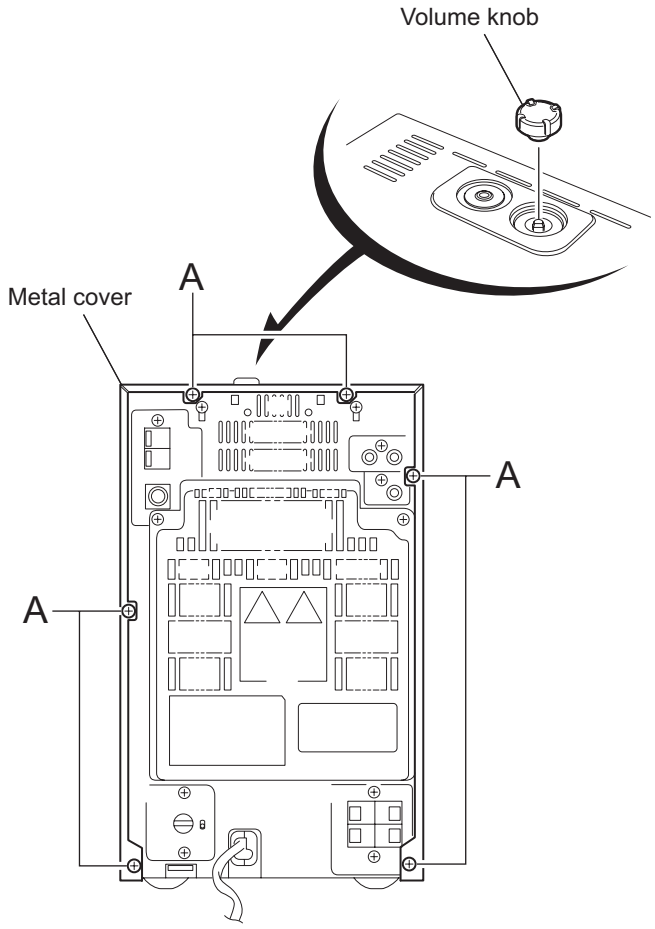



Fig.1

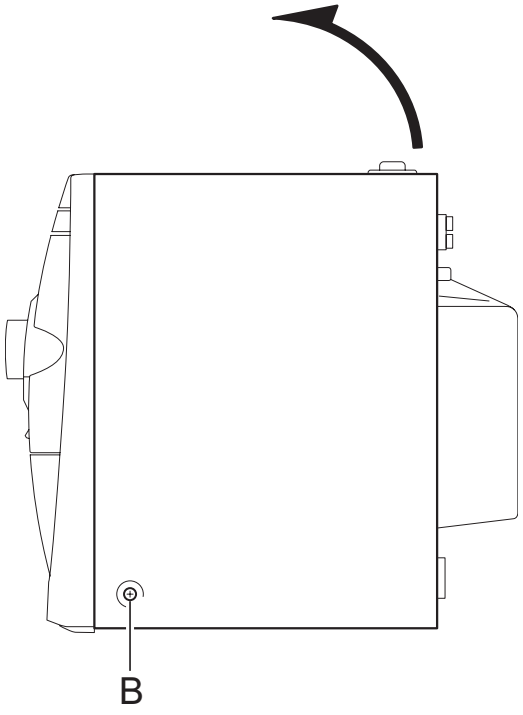



Fig.2

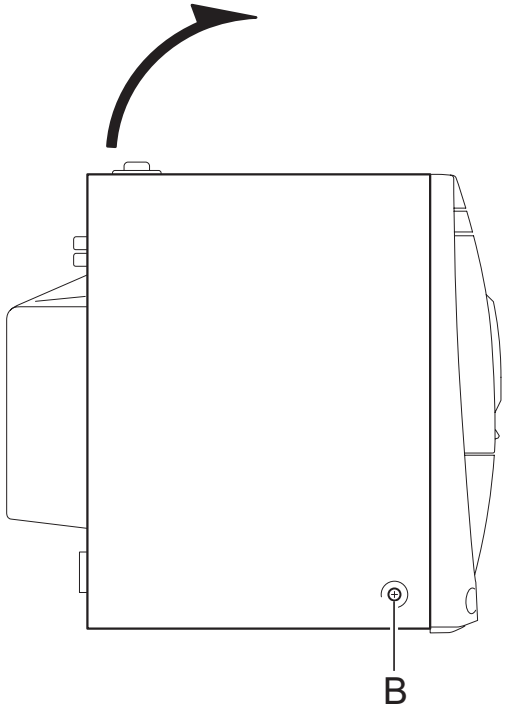



Fig.3

### 3.1.2 Removing the rear cover
**(See Fig.4)**

(1) Remove the two screws **D** attaching the rear cover.

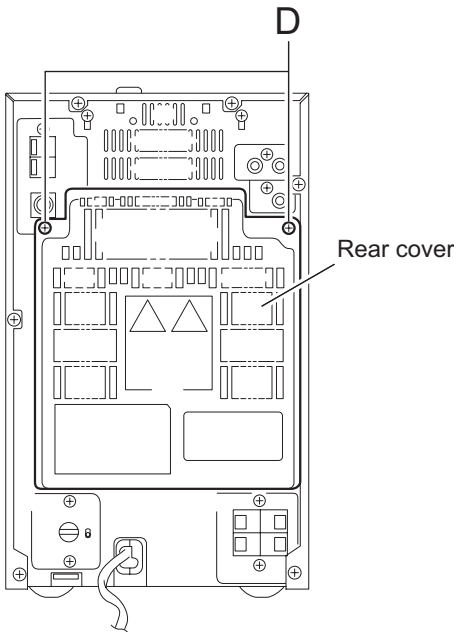



Fig.4

### 3.1.3 Removing the rear panel / fan assembly (See Fig.5,6)

- Prior to performing the following procedure, remove the metal cover and the rear cover.
  (1) Remove the twelve screws **E** attaching the rear panel. Release the two joints **a** on the rear side and the two joints **b** on each side.
  (2) Remove the two screws **F** attaching the fan bracket and release the two joints **d** on the rear panel, and remove.
  (3) Disconnect the wire from the connector CN908 on the main board.

**Reference:**
The MIC volume board comes off.

### 3.1.4 Removing the MIC volume board (See Fig.6)

- Prior to performing the following procedure, remove the metal cover, the rear cover and the rear panel.
  (1) Remove the two screws **G** attaching the MIC volume board on the inside of the rear panel.
  (2) Disconnect the wire from connector CN906 on the main board on the back of the body.

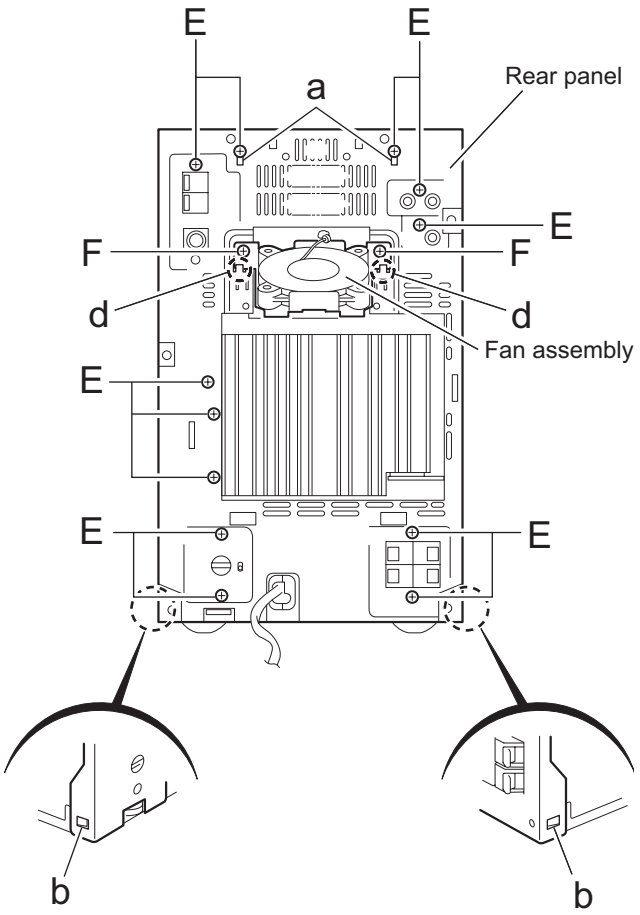



Fig.5

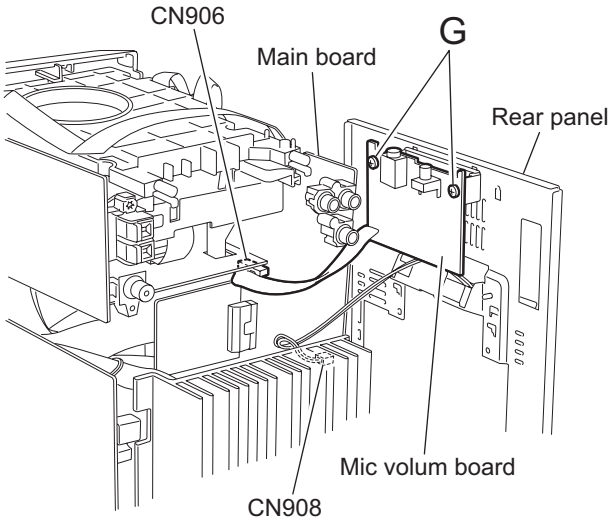



Fig.6

### 3.1.5 Removing the tuner board (See Fig.7)

- Prior to performing the following procedure, remove the metal cover.
  (1) Disconnect the card wire from the connector CN1 on the tuner board.
  (2) Remove the two screws **H** on the rear side and the screw **J** in the side.

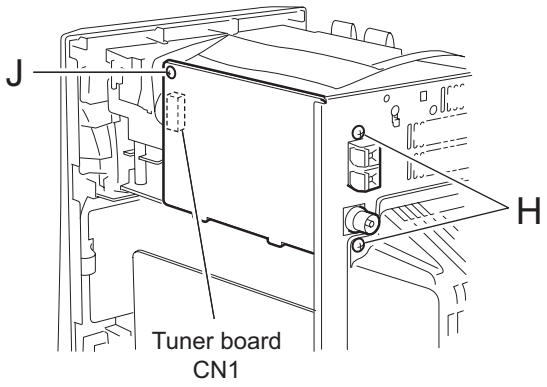



Fig.7

### 3.1.6 Removing the VCD mechanism assembly (See Fig.8)

- Prior to performing the following procedure, remove the metal cover, the rear cover, the rear panel and the tuner board.
  (1) Disconnect the card wire from the connector CN903, CN902 and CN904 on the main board.
  (2) Pull the joint **e** in the direction of the arrow and remove the VCD mechanism assembly backward while releasing the joint **f** .

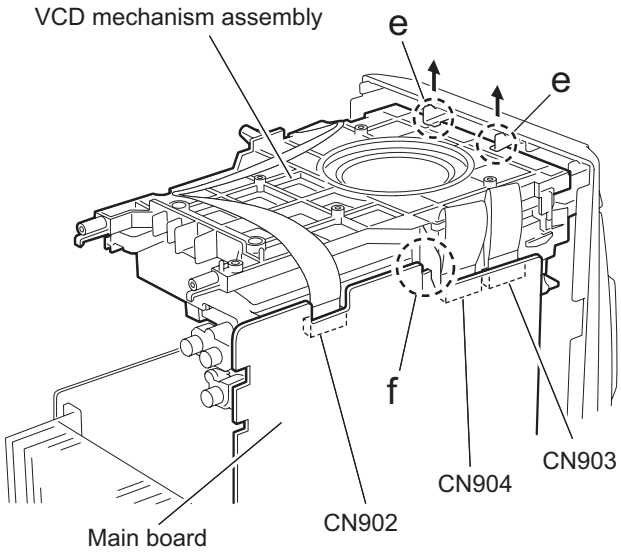



Fig.8

### 3.1.7 Removing the main board / the heat sink board / the speaker board / the vocal cancel board (See Fig.9~11)

- Prior to performing the following procedure, remove the metal cover, the rear cover, the rear panel, and the VCD mechanism assembly.
  (1) Remove the two screws **K** attaching the main board.
  (2) Disconnect the card wire from the connector CN900, CN901,CN930,CN931 and CN932, and disconnect the wire from the connector CN907 and CN916,CN917 on the main board.
  (3) Remove the band and disconnect the wire from the connector CN951 on the power transformer assembly, and then remove the main board / the heat sink board from the body.
  (4) Release the two joints **g** of the main board and disconnect the connector CN944 and CN945 of the heat sink board from the connector CN912 and CN911 of the main board respectively, and remove.
  (5) Remove the two screws **L** and the two screws **M** attaching the heat sink.
  (6) Remove the screw **N** attaching the speaker board.
  (7) Disconnect the vocal cancel board from connector CN905 on the main board.

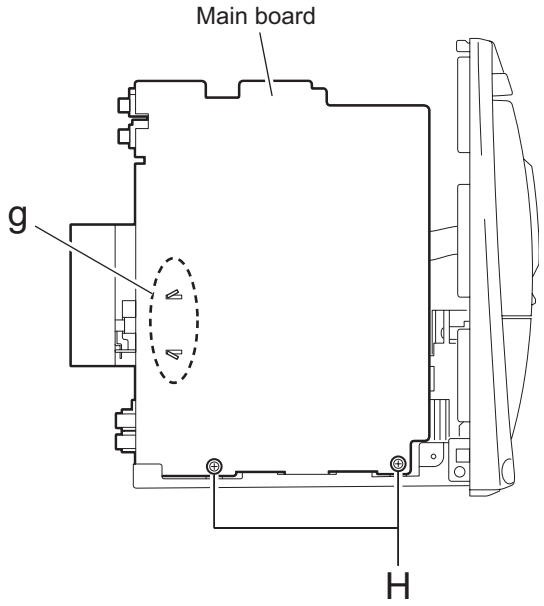



Fig.9

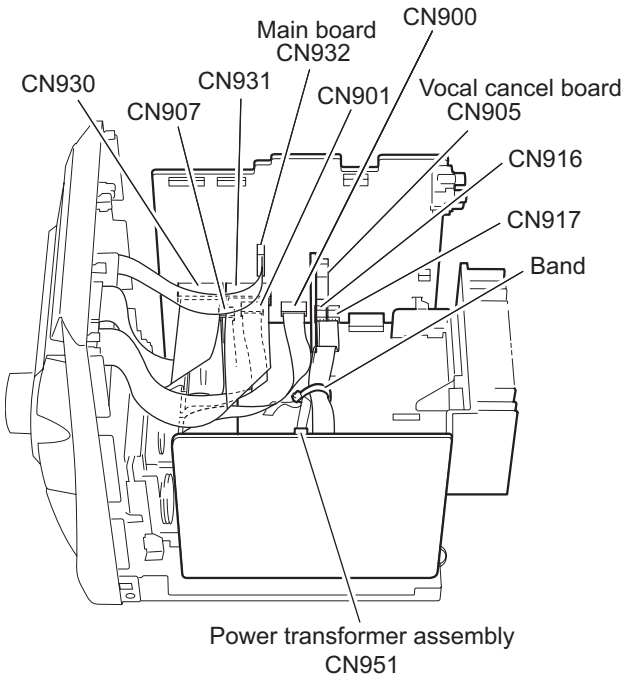



Fig.10

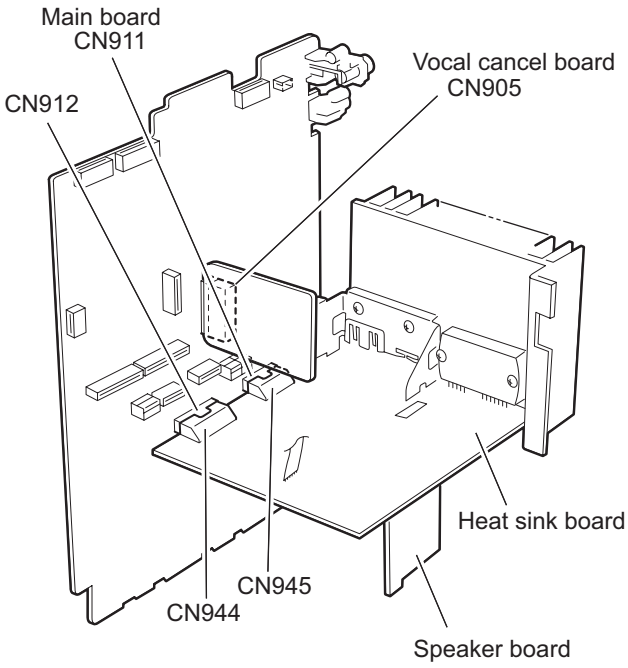



Fig.11

### 3.1.8 Removing the power transformer assembly (See Fig.12)

- Prior to performing the following procedure, remove the metal cover, the rear cover, the rear panel, the VCD mechanism assembly and the main board.
  (1) Disconnect the power cord from the connector J1000 on the power transformer assembly.
  (2) Remove the four screws **P** .

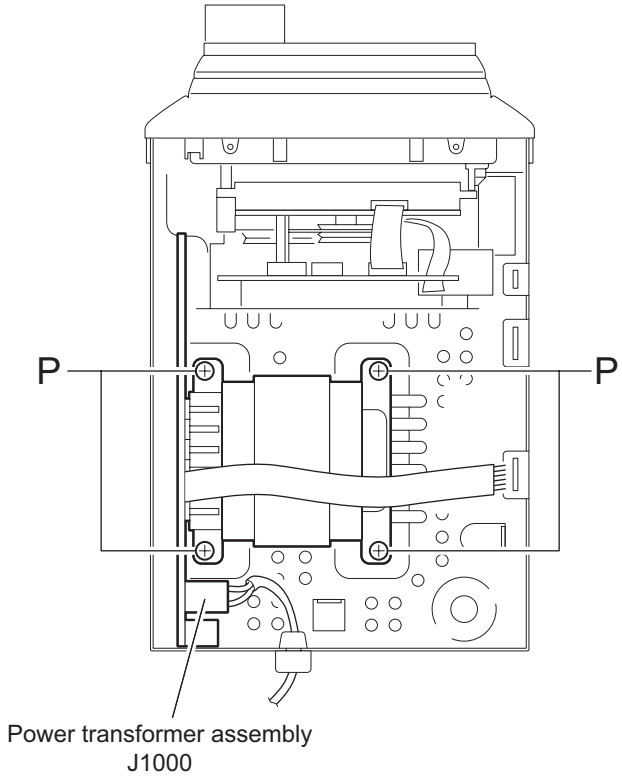



Fig.12

### 3.1.9 Removing the front panel assembly (See Fig.13,14)

- Prior to performing the following procedure, remove the metal cover, the rear cover, the rear panel, and the VCD mechanism assembly.
  (1) Remove the two screws **Q** on each side. Release the two joints **h** on the both sides and lift the front panel assembly to release the joint **j**.
  (2) Disconnect the card wire from the connector CN900, CN901, CN930, CN931 and CN932 on the main board.

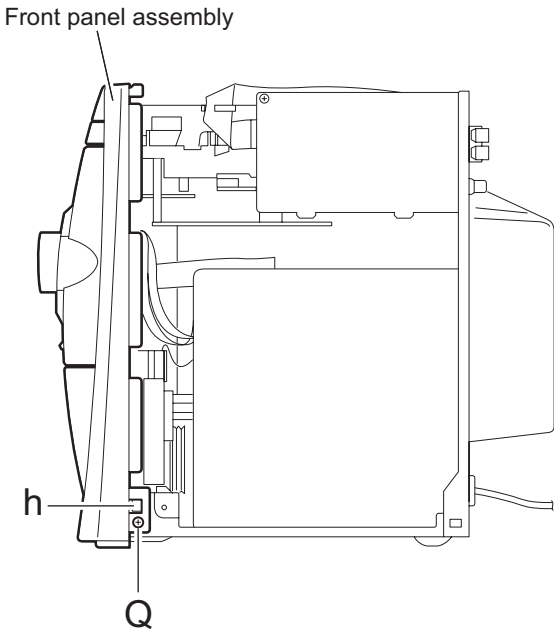



Fig.13

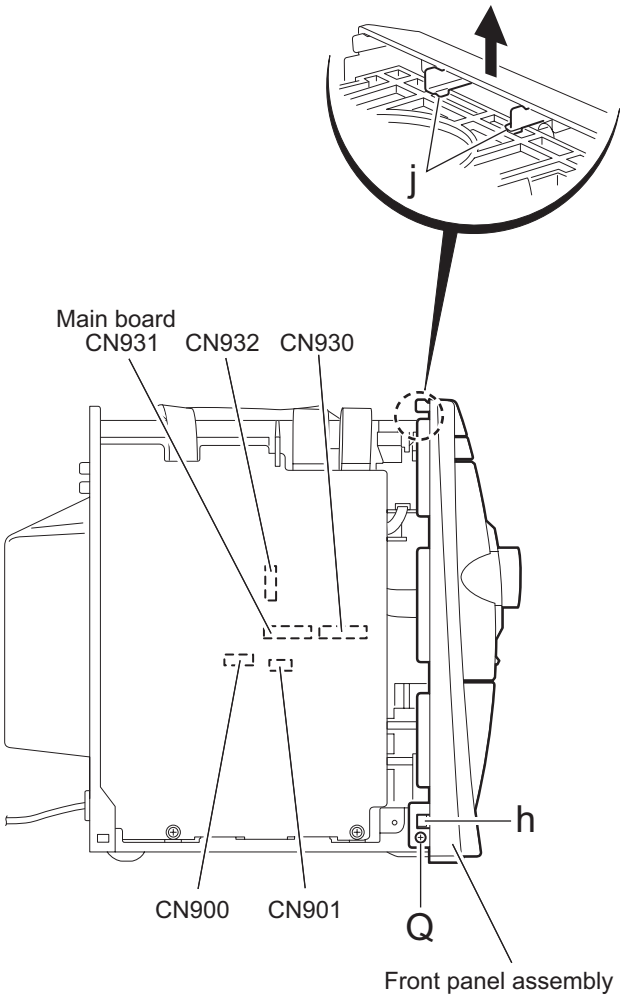



Fig.14

### 3.1.10 Removing the phones board (See Fig.15)

- Prior to performing the following procedure, remove the metal cover, the rear cover, the rear panel, the VCD mechanism assembly and the front panel assembly.
  (1) Disconnect the wire from the connector CN913 on the main board.

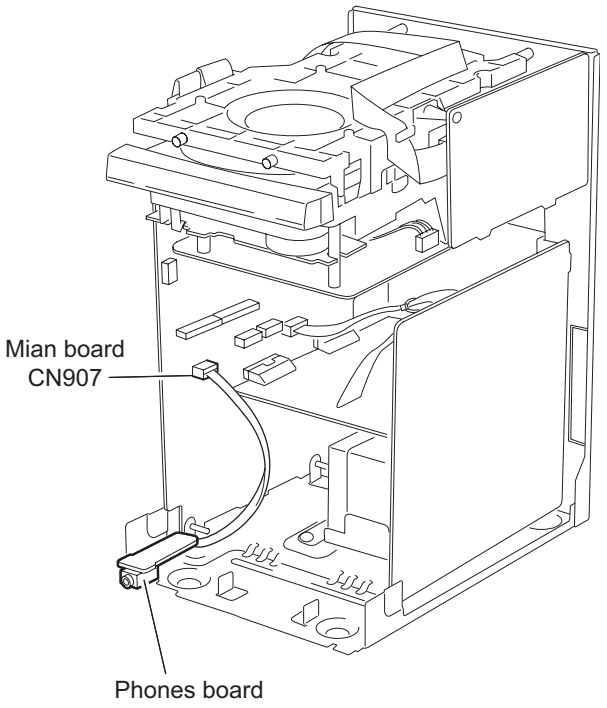



Fig.15

### 3.1.11 Removing the cassette mechanism assembly (See Fig.16)

- Prior to performing the following procedure, remove the front panel assembly.
  (1) Remove the four screws **R** attaching the cassette mechanism assembly.

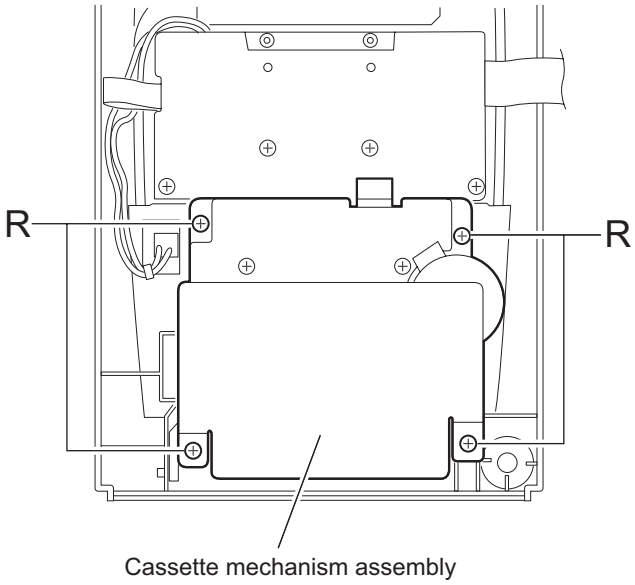



Fig.16

### 3.1.12 Removing the switch board
**(See Fig.17,18)**

- Prior to performing the following procedure, remove the front panel assembly.
  (1) Remove the four screws **T** attaching the switch board.
  (2) Move the switch board in the direction of the arrow to disconnect the wire from the connector CN762 and the card wire from the connector CN761.

### 3.1.13 Remove the LCD board assembly
**(See Fig.17)**

- Prior to performing the following procedure, remove the front panel assembly.
  (1) Remove the four screws **U** attaching the LCD board assembly.

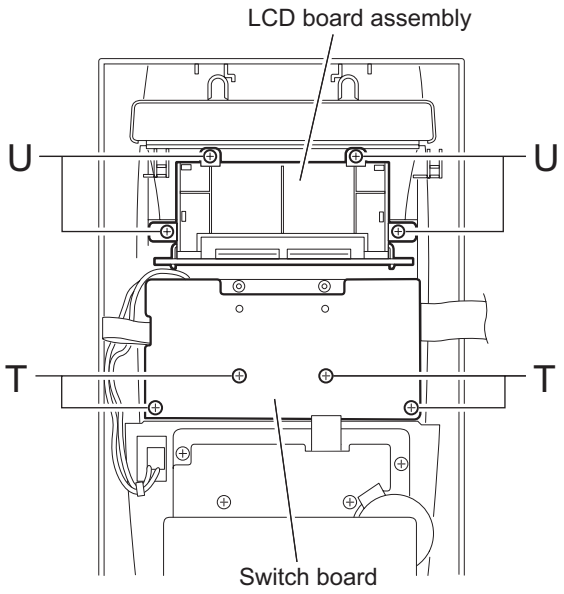



Fig.17

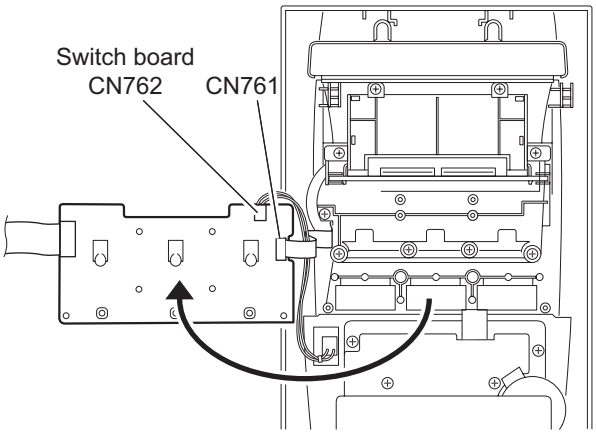



Fig.18

### 3.1.14 Removing the control panel assembly (See Fig.19,20)

- Prior to performing the following procedure, remove the front panel assembly, the switch board and the LCD board assembly.
  (1) Remove the three screws **Y** attaching the control panel assembly.
  (2) Release the three joints **k** and open the cassette door while pressing the cassette door, and then remove the control panel assembly in the direction of the arrow.

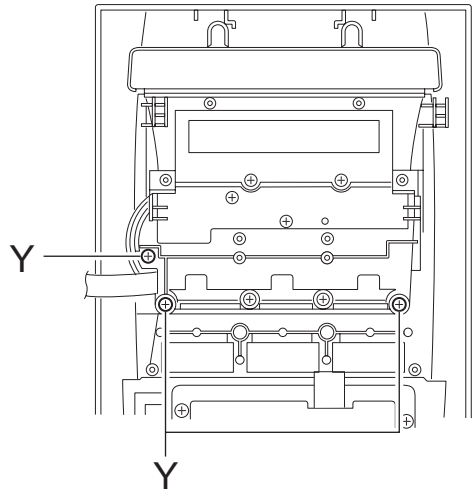



Fig.19

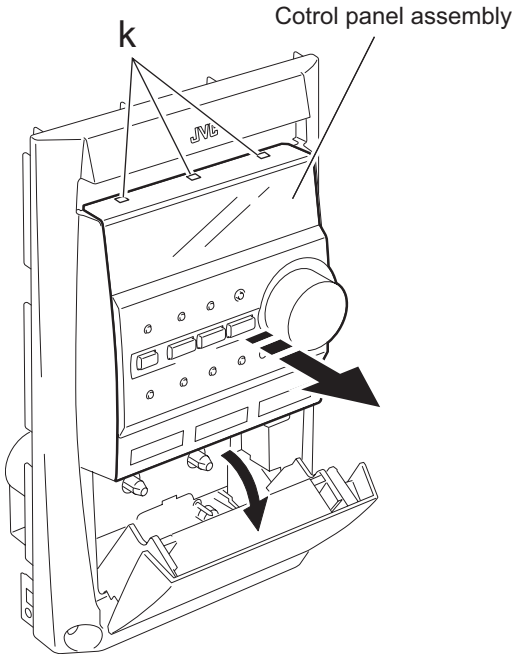



Fig.20

### 3.1.15 Remiving the control board
**(See Fig.21,22)**

- Prior to performing the following procedure, remove the front panel assembly, the switch board, the LCD board assembly and the control panel assembly.
  (1) Pull out the volume knob.
  (2) Remove the six screws **A'** attaching the control board.

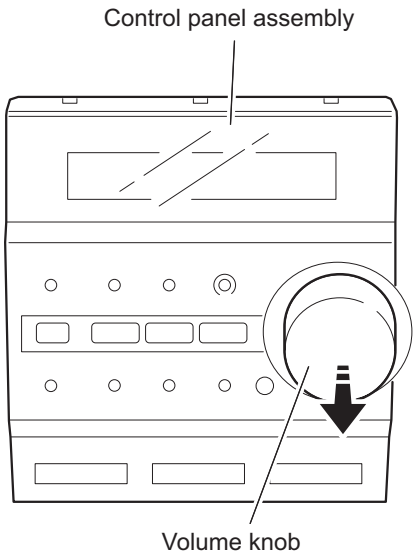



Fig.21

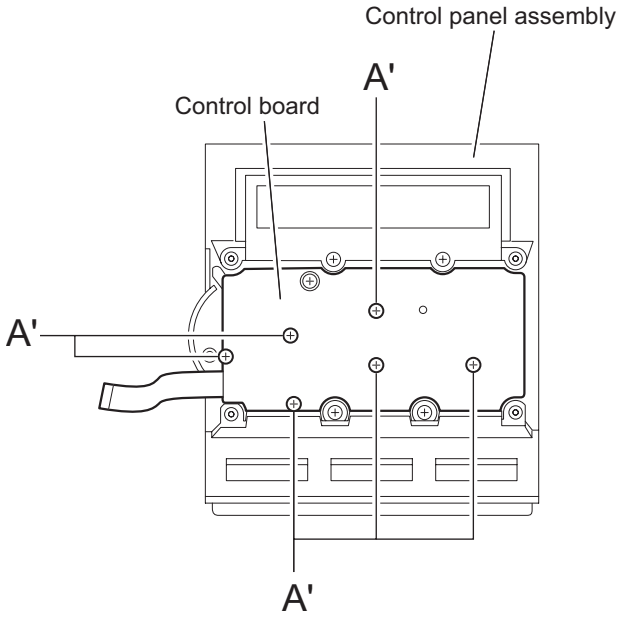



Fig.22

### 3.1.16 Removing the VCD board / CD servo control board (See Fig.23~26)

- Prior to performing the following procedure, remove the metal cover, the rear cover, the rear panel and the VCD mechanism assembly.

**Caution:**

Before disconnecting the card wire extending from the CD pickup, make sure to solder the short-circuit point on the CD pickup(Fig.25 and 26). If you do not follow this instruction, the CD pickup may be damaged.

(1) Disconnect the card wire from connector CN101 on the VCD board on the bottom of the VCD mechanism assembly.
(2) Remove the four screws **B'** attaching the board cover.
(3) Disconnect the wire from connector CN801 on the CD servo control board and the card wire from connector CN606 respectively.
(4) Remove the two screws **D'** attaching the CD servo control board and the board bracket.
(5) Move the CD servo control board in the direction of the arrow to release two joints **m**.
(6) Turn and move the CD servo control board in the direction of the arrow.
(7) Solder the short-circuit point on the CD pickup.
(8) Disconnect the card wire from connector CN601 on the CD servo control board.

**Caution:**

When reassembling, unsolder the short-circuit point after connecting the card wire to CN601 on the CD board.

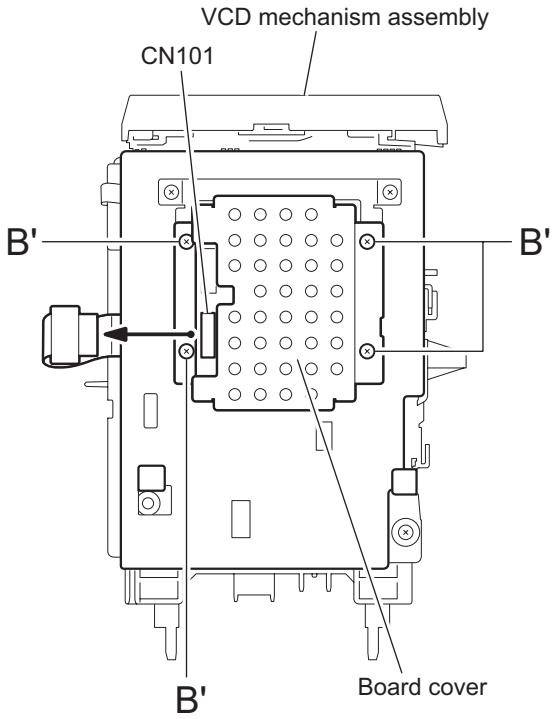



Fig.23

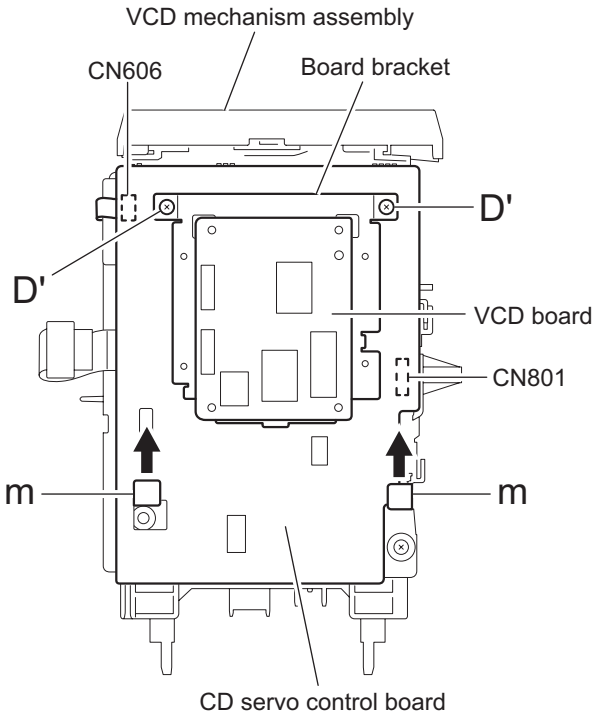



Fig.24

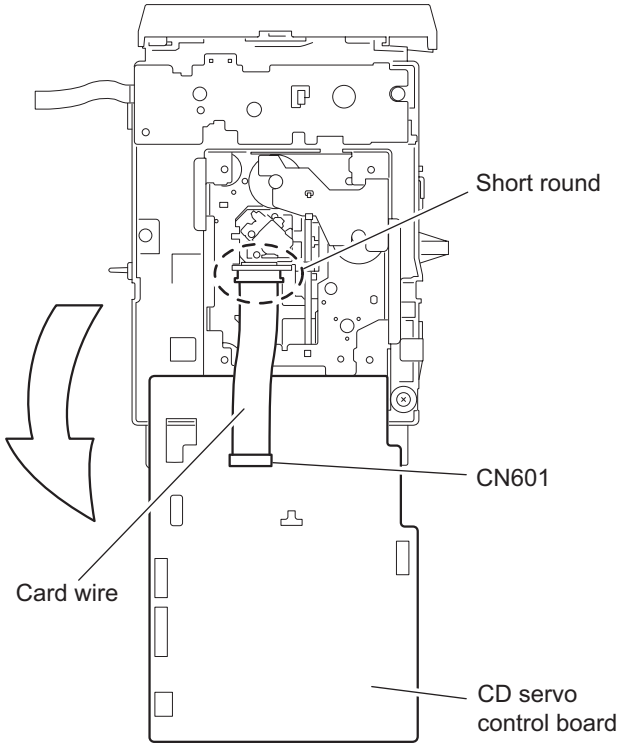



Fig.25

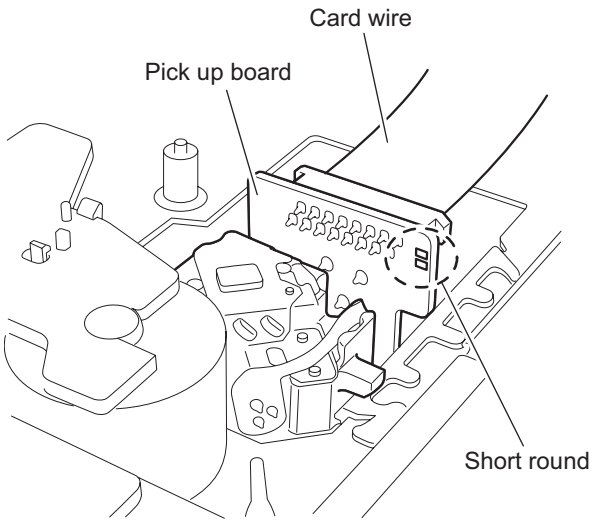



Fig.26

### 3.2 Cassette mechanism assembly

#### 3.2.1 Removing the Play/Record & Clear head (See Fig.1~3)

(1) While moving the trigger arm on the right side of the head mount in the direction of the arrow, turn the flywheel R counterclockwise until the head mount comes ahead and clicks.
(2) The head turns counterclockwise as you turn the flywheel R counterclockwise (See Fig.2 and 3).
(3) Disconnect the flexible wire from connector CN31 on the head amplifier & mechanism control board.
(4) Remove the spring from the back of the head.
(5) Loosen the azimuth screw for reversing attaching the head.
(6) Remove the head on the front side of the head mount.

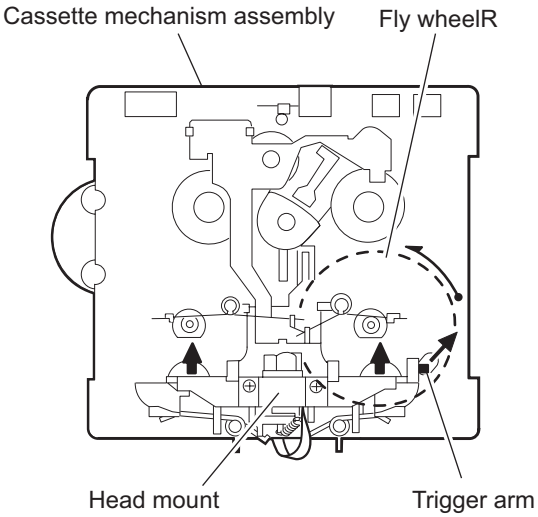


Fig.1

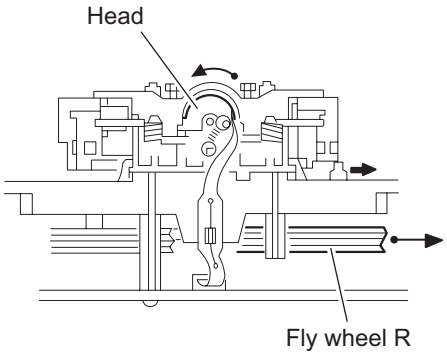


Fig.2

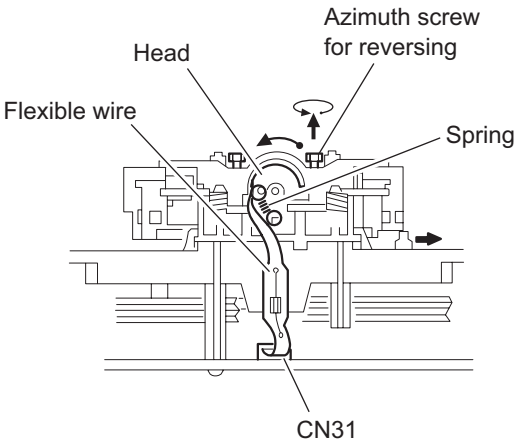


Fig.3

### 3.2.2 Removing the head amplifier & mechanism control board (See Fig.4)

(1) Turn over the cassette mechanism assembly and remove the three screws **A** attaching the head amplifier & mechanism control board.
(2) Disconnect the flexible wire from connector CN31 on the head amplifier & mechanism control board.
(3) Disconnect connector CN32 of the head amplifier & mechanism control board from connector CN1 on the reel pulse board.REFERENCE: If necessary, unsolder the 4-pin wire soldered to the main motor.

### 3.2.3 Removing the main motor (See Fig.4~7)

(1) Remove the two screws **B** .
(2) Half raise the motor and remove the capstan belt from the motor pulley.

**ATTENTION:**

Be careful to keep the capstan belt from grease. When reassembling, refer to Fig.6 and 7 for attaching the capstan belt.

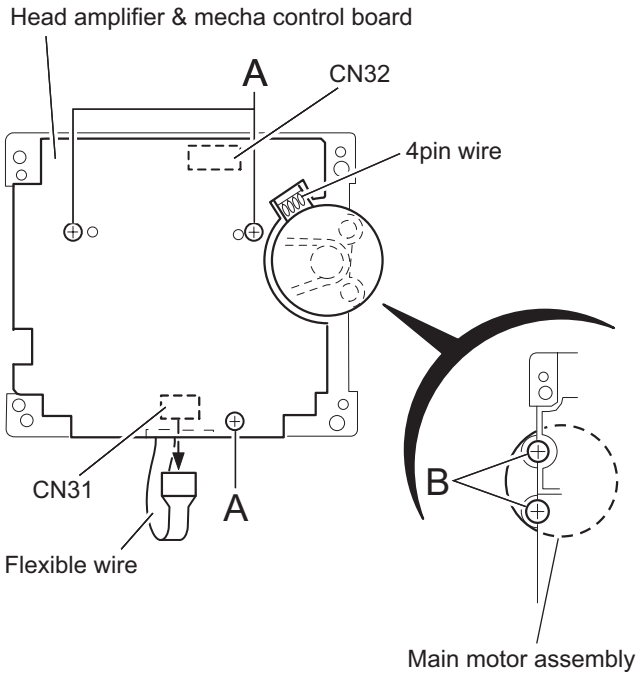



Fig.4

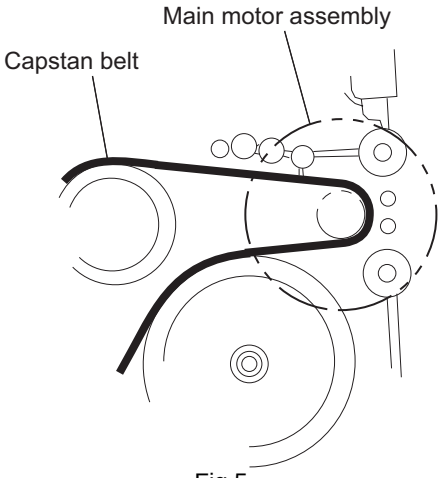



Fig.5

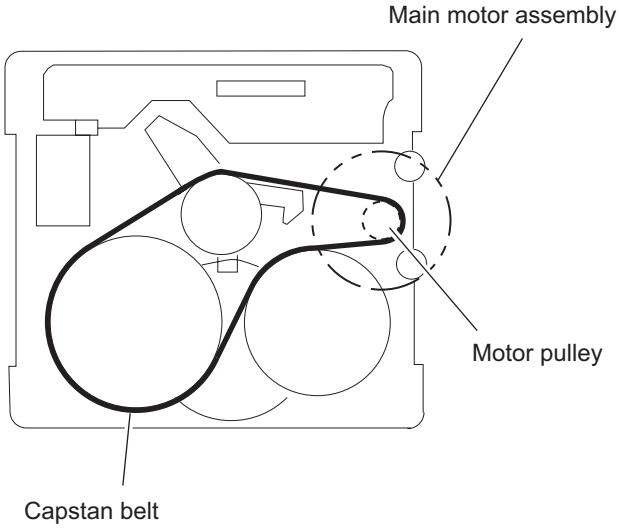



Fig.6

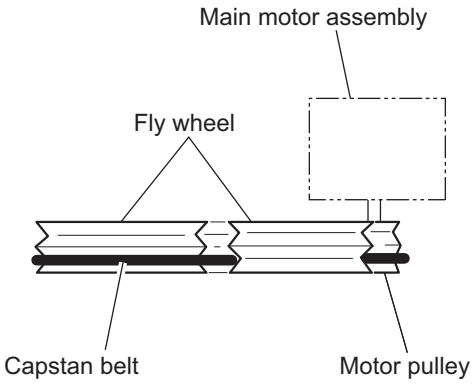



Fig.7

### 3.2.4 Removing the flywheel (See Fig.8, 9)

- Prior to performing the following procedure, remove the head amplifier & mechanism control board and the main motor assembly.
  (1) From the front side of the cassette mechanism, remove the slit washers attaching the capstan shaft **L** and **R**. Pull out the flywheels backward.

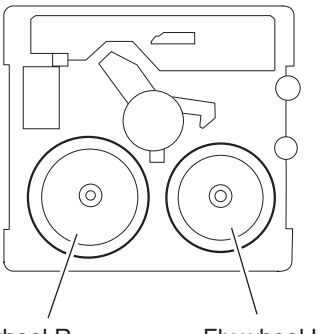


Fig.8

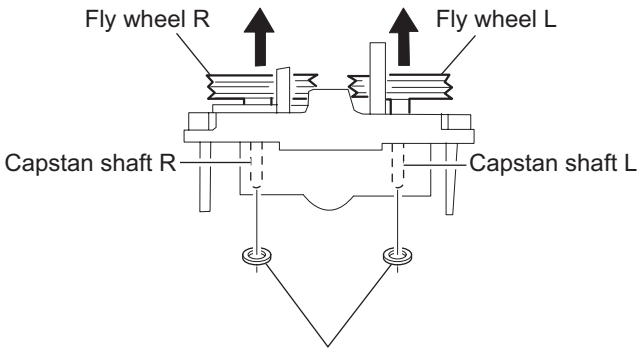


Fig.9

### 3.2.5 Removing the reel pulse board and solenoid (See Fig.10)

- Prior to performing the following procedure, remove the head amplifier & mechanism control board.
  (1) Remove the screw **C**.
  (2) Release the tab **a**, **b**, **c**, **d** and **e** retaining the reel pulse board.
  (3) Release the tab **f** and **g** attaching the solenoid on the reel pulse board.
  (4) The reel pulse board and the solenoid come off.

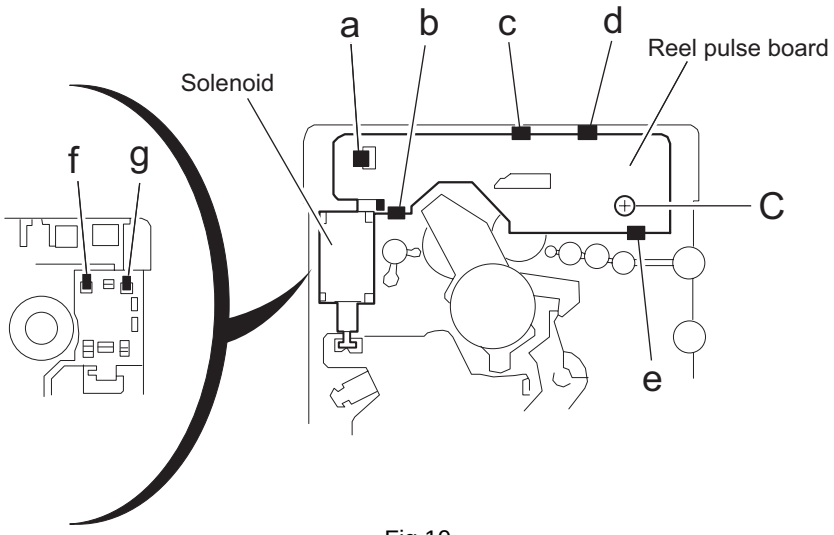


Fig.10

### 3.2.6 Reattaching the Play/ Record & Clear head (See Fig.11~13)

(1) Reattaching the head mount assembly.
   a) Change front of the direction cover of the head mount assembly to the left (Turn the head forward).
   b) Fit the bosses **O'**, **P'**, **Q'**, **U'** and **V'** on the head mount assembly to the holes **P** and **V**, the slots **O**, **U** and **Q** of the mechanism sub assembly (See Fig.11 to 13).

**CAUTION:**

To remove the head mount assembly, turn the direction cover to the left to disengage the gear. If the gear can not be disengaged easily, push up the boss **Q'** slightly and raise the rear side of the head mounts slightly to return the direction lever to the reversing side.

(2) Tighten the azimuth screw for reversing.
(3) Reattach the spring from the back of the Play/ Record & Clear head.
(4) Connect the flexible wire to connector CN31 on the head amplifier & mechanism control board.

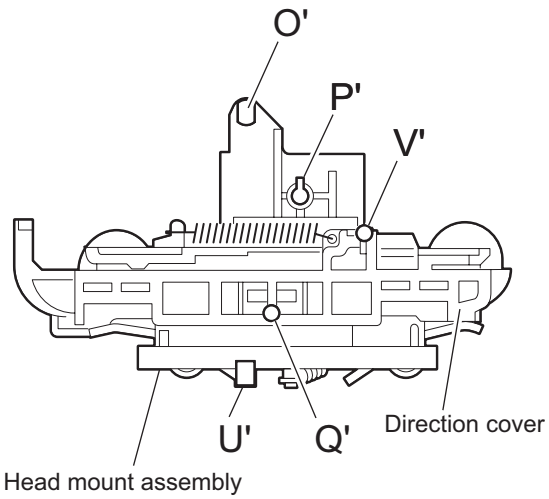


Fig.11

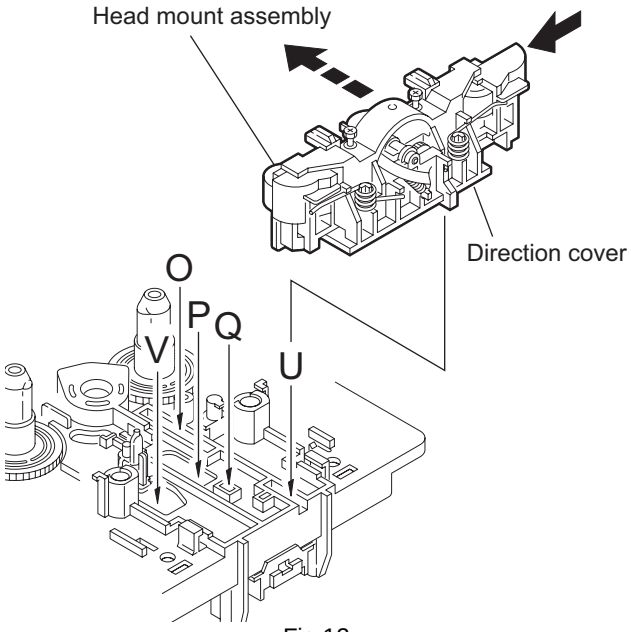


Fig.12

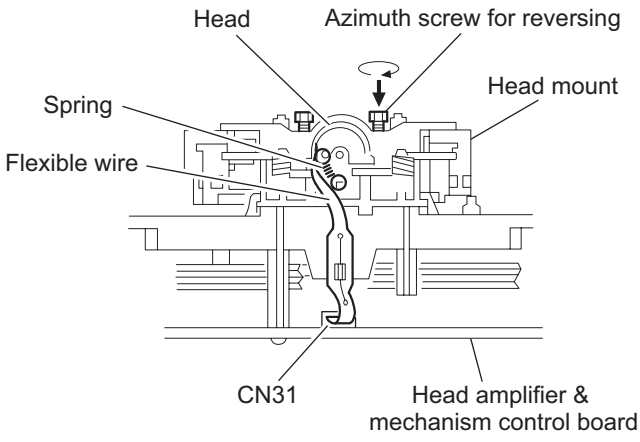


Fig.13

# SECTION 4
# ADJUSTMENT

### 4.1 Measurement Instruments Required for Adjustment

(1) Low frequency oscillator
This oscillator should have a capacity to output 0dBs to 600Ω at an oscillation frequency of 50Hz-20kHz.
(2) Attenuator impedance : 600Ω
(3) Electronic voltmeter
(4) Distortion meter
(5) Frequency counter
(6) Wow & flutter meter
(7) Test tape
VT703L : Head azimuth
VT712 : Tape speed and running unevenness (3kHz)
VT724 : Reference level (1kHz)
(8) Blank tape
TYPE I : AC-225
TYPE II : AC-514
(9) Torque gauge : For play and back tension
FWD(TW2111A), REV(TW2121a) and FF/REW(TW2231A)
(10) Test disc: CTS-1000

### 4.2 Measurement conditons

| | |
|---|---|
| Power supply voltage | AC 110V/127V/220V/230V-240V~ adjustable with the voltage selector, 50Hz/60Hz |
| Reference output | Speaker : 0.775V/4Ω<br>Headphone : 0.077V/32Ω |

| | |
|---|---|
| Reference frequency and input level | 1kHz, AUX : -8dBs |
| Measurement output terminal | at Speaker J3002 |
| Load resistance | 4Ω |

#### 4.2.1 Radio Input signal

| | |
|---|---|
| AM frequency | 400Hz |
| AM modulation | 30% |
| FM frequency | 400Hz |
| FM frequency deviation | 22.5kHz |

#### 4.2.2 Tuner section

| | |
|---|---|
| Voltage applied to tuner | +B : DC5.7V<br>VT : DC 12V |
| Reference measurement output | 26.1mV(0.28V)/3Ω |
| Input positions | AM : Standard loop antenna<br>FM : TP1 (hot) and TP2 (GND) |

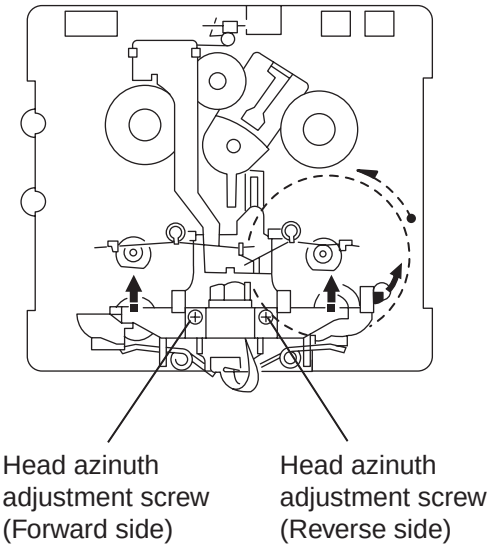
#### 4.2.3 Standard measurement position of volume

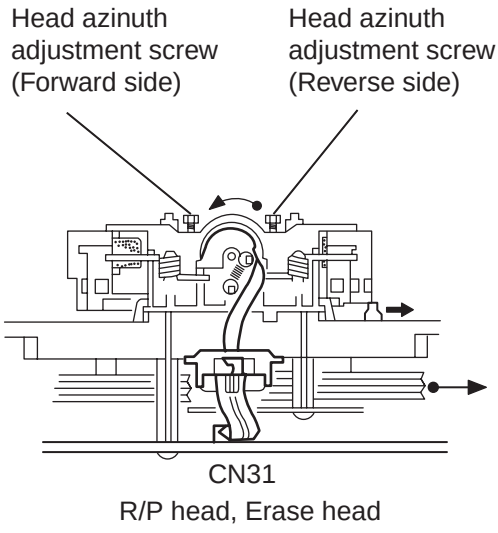
| | |
|---|---|
| Function switch | to Tape |
| Beat cut switch | to Cut |
| Super Bass/Active hyper Bass | to OFF |
| Bass Treble | to Center |
| Adjustment of main volume to reference output | VOL : 0.775V |

**Precautions for measurement**

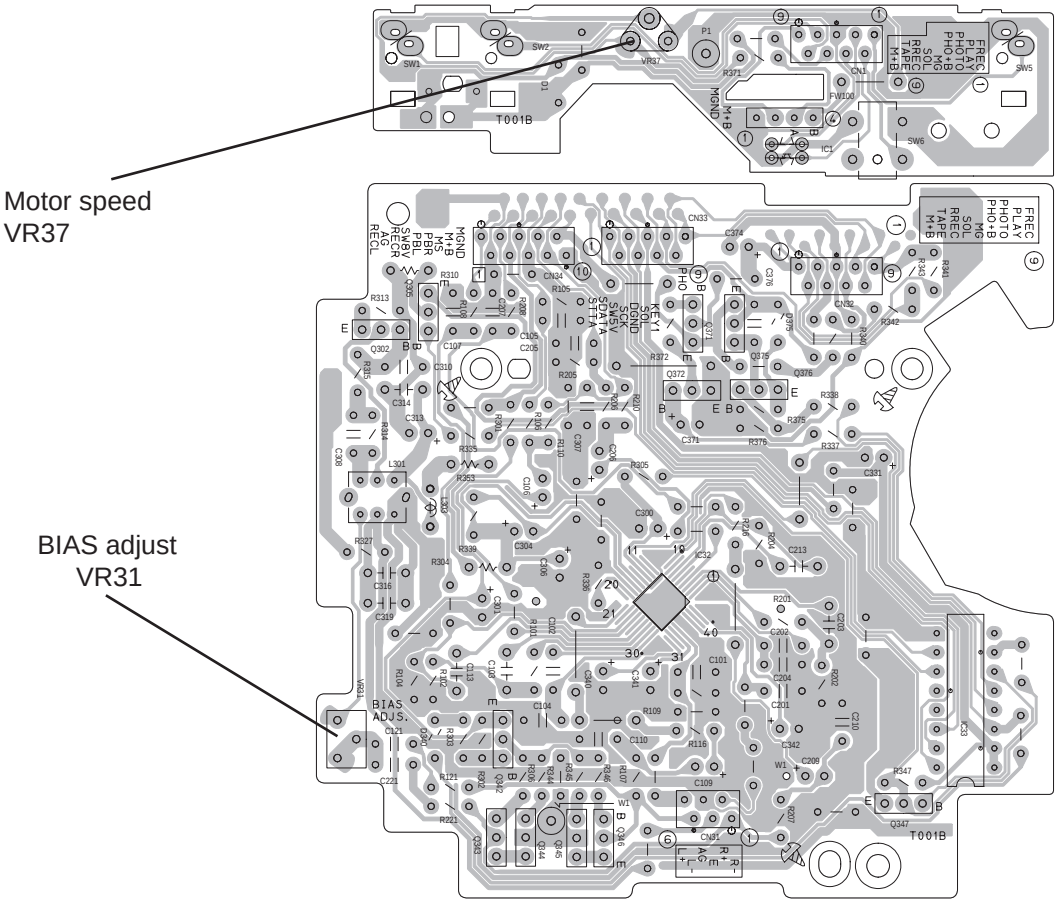
(1) Apply 30pF and 33kΩ to the IF sweeper output side and 0.082μ F and 100kΩ in series to the sweeper input side.
(2) The IF sweeper output level should be made as low as possible within the adjustable range.
(3) Since the IF sweeper is a fixed device, there is no need to adjust this sweeper.
(4) Since a ceramic oscillator is used, there is no need to perform any MIX adjustment.
(5) Since a fixed coil is used, there is no need to adjust the FM tracking.
(6) The input and output earth systems are separated. In case of simultaneously measuring the voltage in both of the input and output systems with an electronic voltmeter for two channels, therefore, the earth should be connected particularly carefully.
(7) In the case of BTL connection amp., the minus terminal of speaker is not for earthing. Therefore, be sure not to connect any other earth terminal to this terminal. This system is of an BTL system.
(8) For connecting a dummy resistor when measuring the output, use the wire with a greater code size.
(9) Whenever any mixed tape is used, use the band pass filter (DV-12).

### 4.3 Cassette mechanism adjustment




Mecha control board



### 4.3.1 Mechanism section

| Item | Condition | Measurement method | Ref. value | Adjustment position |
|---|---|---|---|---|
| Head azimuth | Test tape<br>:VT703L (8kHz)<br>Output terminal<br>:Speaker out | (1) Playback the test tape VT703L (8kHz).<br>(2) Adjust to maximum output level by azimuth adjustment screw for forward side and reverse side.<br>(3) This adjustment is adjust by adjustment screw of forward side and adjustment screw of reverse side. | Maximum output | Only adjust at changed head |
| Tape speed | Test tap<br>:VT712 (3kHz)<br>Output terminal<br>:Speaker out or Headphone out | Playback the test tape VT712 (3kHz) at end of forward side,adjust to 2,940~3,90Hz indication of frequency counter by VR37. | 2,940 ~ 3,090Hz | VR37 |

| Item | Condition | Measurement method | Ref. value | Adjustment position |
|---|---|---|---|---|
| Tape speed diviation at FWD/ REV | Test tape<br>: VT712 (3kHz)<br>Output terminal<br>:Speaker out or Headphone out | Playback the test tape VT712 (3kHz) at end of forward and reverse, tape speed deviation should be less than 6.0Hz. | Leass than 6.0Hz | VR31 |
| Wow & Flutter | Test tape<br>: VT712 (3kHz)<br>Output terminal<br>:Speaker out or Headphone out | Playback the test tape VT712 (3kHz) at start of forward and reverse, Wow & Flutter are should be less than 0.25%(WRMS). | Less than 0.25% (WRMS) | |

### 4.3.2 Electrical adjustment

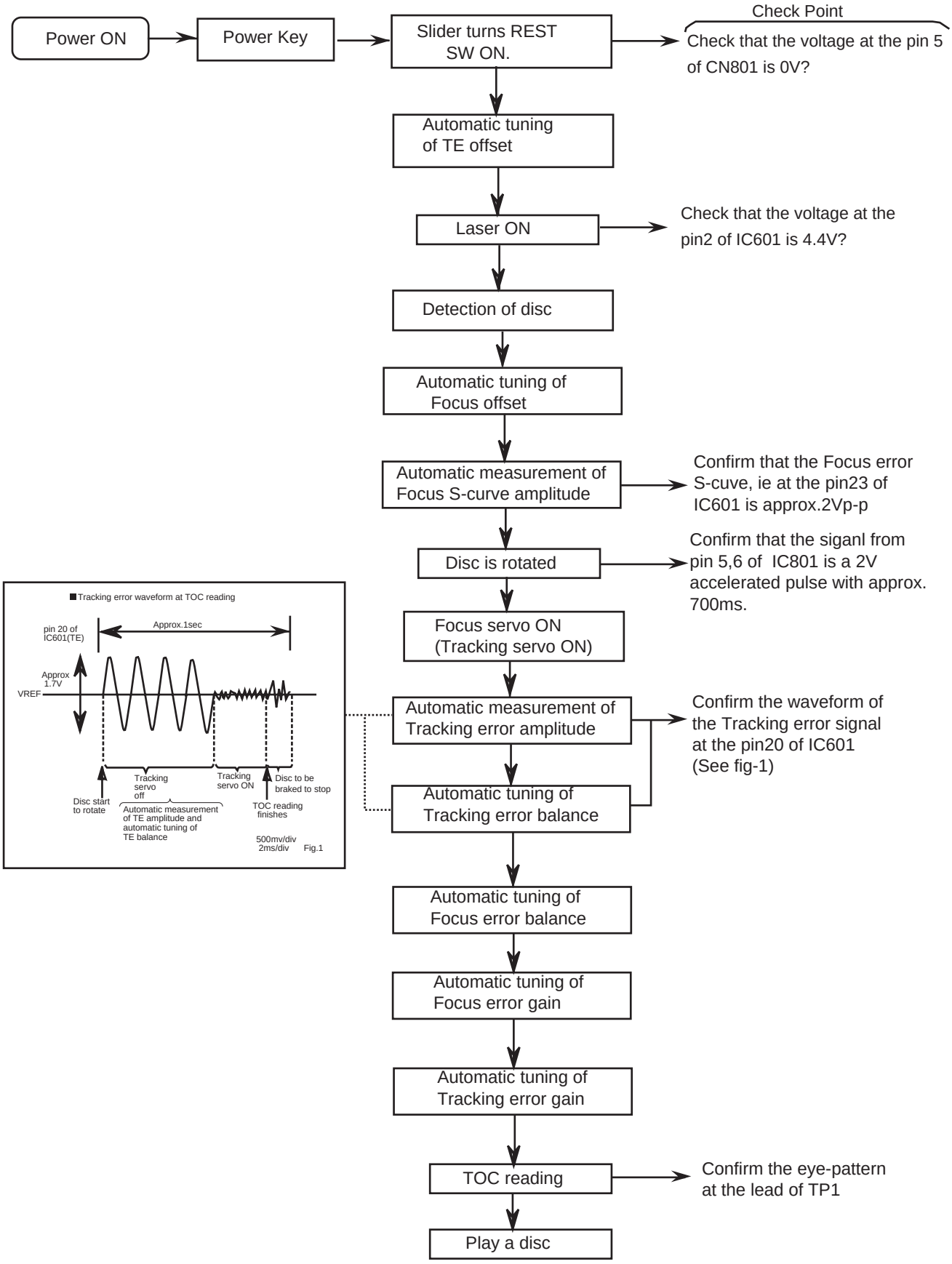
| Item | Condition | Measurement method | Ref. value | Adjustment position |
|---|---|---|---|---|
| Recording BIAS adjustment | • Forward or Reverse<br>• Test tape<br>: AC-514 TYPE ll<br>: AC-225 TYPE l<br>• Output termina<br>Recording head | (1) Set the test tape(AC-514 TYPE ll and AC-225 TYPE l), then make REC/ PAUSE condition.<br>(2) Connect 100Ω to recording head by series, then connect to VTVM for measurement the current.<br>(3) After setting, start the recording by release the PAUSE, in this time bias current adjust to next fig. by VR31 for Lch and VR32 for Rch.<br>4.0 μA (TYPE ll) and 4.20 μA (TYPE l). | AC-225<br>: 4.20μA<br>AC-514<br>: 4.0μA | VR31 |
| R/P playback frequency response | • Reference frequency<br>: 1kHz / 10kHz<br>(Reference: -20dB)<br>• Test tape<br>: AC-514 TYPE ll<br>• Input terminal<br>: OSC IN | (1) Set the test tape (AC-514 TYPE ), then make REC/PAUSE condition.<br>(2) Release the PAUSE, then start recording the 1kHz and 10kHz of reference frequency from oscillator.<br>(3) Playback the recorded position, 1kHz and 10kHz output deviation should -1dB 2dB to readjust by VR31 for Lch and VR32 for Rch. | Output deviation<br>1kHz/10kHz<br>: -1dB ± 2dB | VR31 |

### 4.3.3 Electrical response confirmation

| Item | Condition | Measurement method | Ref. value | Adjustment position |
|---|---|---|---|---|
| Recording bias current | • Forward or Reverse<br>• Test tape<br>: TYPE ll (AC-514)<br>• Measurement terminal<br>: BIAS test point on printed circuit board | (1) Change BIAS1 and 2, confirm the frequency should be change.<br>(2) Set the test tape (AC-514 TYPE ll), then make REC/PAUSE condition.<br>(3) Confirm the frequency should 100Hz ± 6kHz at BIAS test point on printed circuit board. | 100 kHz ± 6 kHz | |
| Erase current (reference value) | • Forward or Reverse<br>• Rec condition<br>Test tape<br>: AC-514 TYPE ll<br>: AC-225 TYPE l<br>• Measurement terminal<br>Both side of Erase head | (1) Set the test tape (AC-514 TYPE ll and AC-225 TYPE l), then make REC/ PAUSE condition.<br>(2) Release the PAUSE to REC condition, connect 1W to ERASE head by series, then confirm the erase current at both side of erase head. | TYPE ll<br>: 120 mA<br>TYPE l<br>: 75 mA | |

# SECTION 5
# TROUBLESHOOTING

## 5.1 Flow of functional operation untill TOC read (CD)

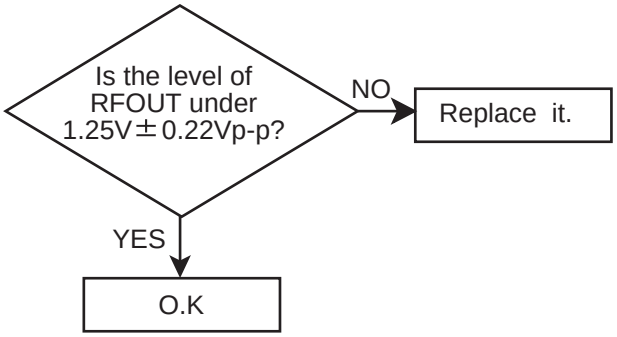


### 5.2 Maintenance of laser pickup (CD)

(1) Cleaning the pick up lens
Before you replace the pick up, please try to clean the lens with a alcohol soaked cotton swab.

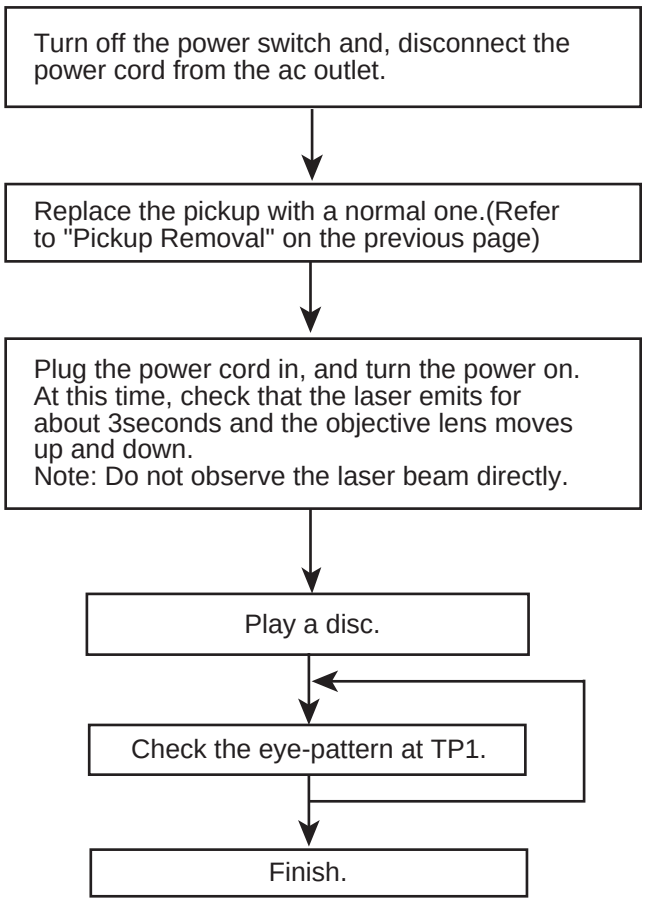
(2) Life of the laser diode
When the life of the laser diode has expired, the following symptoms will appear.

- The level of RF output (EFM output : ampli tude of eye pattern) will below.




(3) Semi-fixed resistor on the APC PC board
The semi-fixed resistor on the APC printed circuit board which is attached to the pickup is used to adjust the laser power. Since this adjustment should be performed to match the characteristics of the whole optical block, do not touch the semi-fixed resistor.
If the laser power is lower than the specified value, the laser diode is almost worn out, and the laser pickup should be replaced.
If the semi-fixed resistor is adjusted while the pickup is functioning normally, the laser pickup may be damaged due to excessive current.

### 5.3 Replacement of laser pickup (CD)



JVC
**VICTOR COMPANY OF JAPAN, LIMITED**
AV & MULTIMEDIA COMPANY AUDIO/VIDEO SYSTEMS CATEGORY 10-1,1chome,Ohwatari-machi,Maebashi-city,371-8543,Japan

(No.MB057)

Printed in Japan
WPC

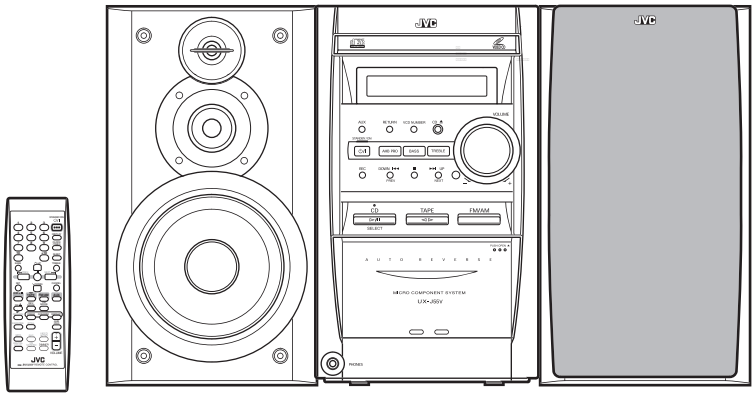
JVC

# SCHEMATIC DIAGRAMS

## MICRO COMPONENT SYSTEM

# UX-J55V

**CD-ROM No.SML200312**



SP-UXJ55V CA-UXJ55V SP-UXJ55V

VIDEO CD COMPACT disc DIGITAL VIDEO COMPACT disc DIGITAL AUDIO

**Area Suffix**

US ---------- Singapore
UN ---------- Asean

## Contents



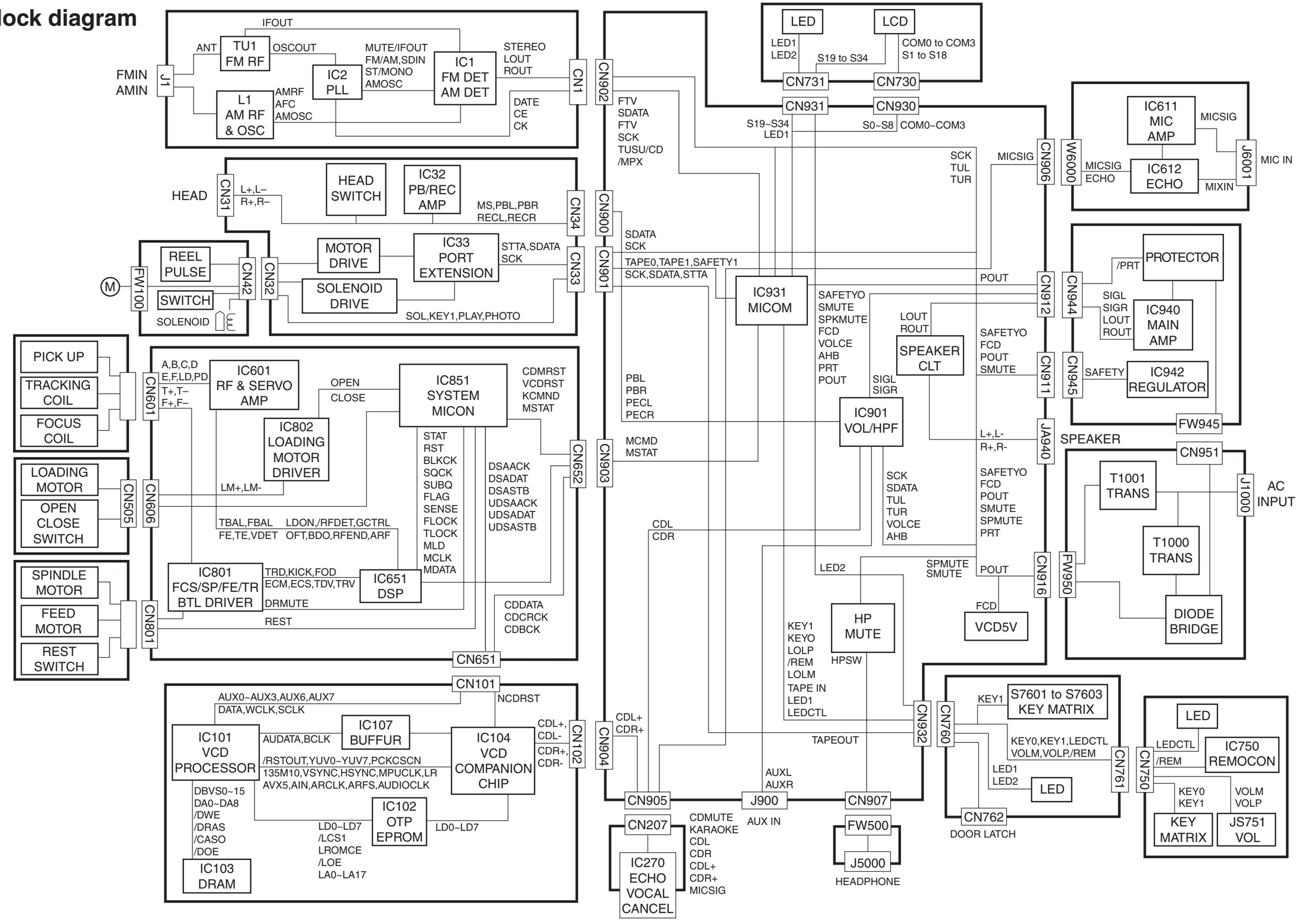


**No.MB057SCH**
**2003/12**

In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (  ), diode (  ) and ICP (  ) or identified by the "⚠" mark nearby are critical for safety.

(This regulation does not correspond to J and C version.)

# Block diagram

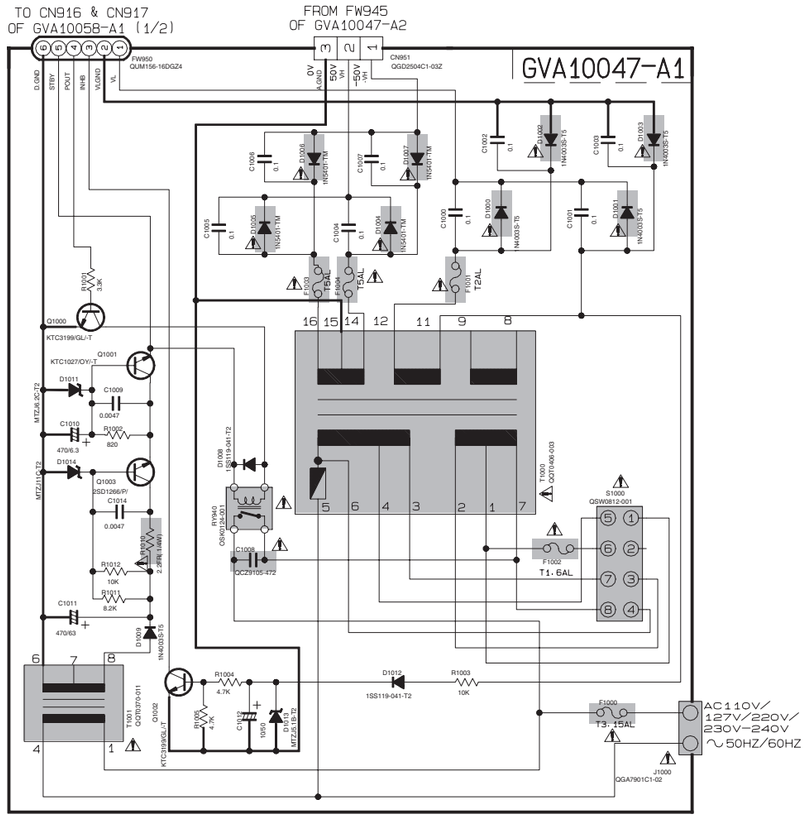


# Standard schematic diagrams

## ■ Primary section

US/UX/UN

| EXPLANATION OF OVERALL OF SCHEMATIC | | |
|---|---|---|
| MODEL : UX-J55V | | |
| SHEET NUMBER | MODEL NUMBERS TO BE APPLIED | CIRCUITS DESCRIPTION |
| 1/9 | UX-J55V | . PRIMARY WITH MAINS TRANSFORMER |
| 2/9 | UX-J55V | . POWER BOARD |
| 3/9 | UX-J55V | . AUDIO OUTPUT<br>. EXTERNAL INPUT |
| 4/9 | UX-J55V | . LCD DISPLAY/SYSTEM CONTROL/USERS KEY CONTROL<br>. SOURCE SELECTOR SWITCH |
| 5/9 | UX-J55V | . MIC AMPLIFIER WITH ALC. ECHO CONTROL CIRCUIT |
| 6/9 | UX-J55V | . CD SERVO AND CD SYSTEM CONTROL |
| 7/9 | UX-J55V | . VIDEO CONTROL CIRCUIT WITH MP3 FEATURE |
| 8/9 | UX-J55V | . TUNER RF/IF/FM MULTIPLEX |
| 9/9 | UX-J55V | . TAPE DECK MECHANISM CONTROL<br>. TAPE CIRCUITS SUCH AS PRE-AMP AND BIAS |




VERSION CODES

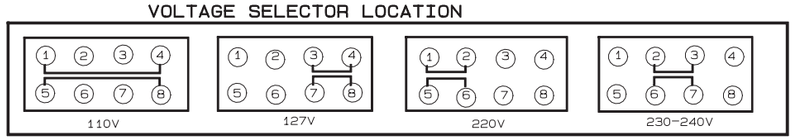
UX : SAUDI ARABIA
UN : INDONESIA
US : SINGAPORE AND UNIVERSAL
. EXCEPT ALL OF ABOVE

NOTES

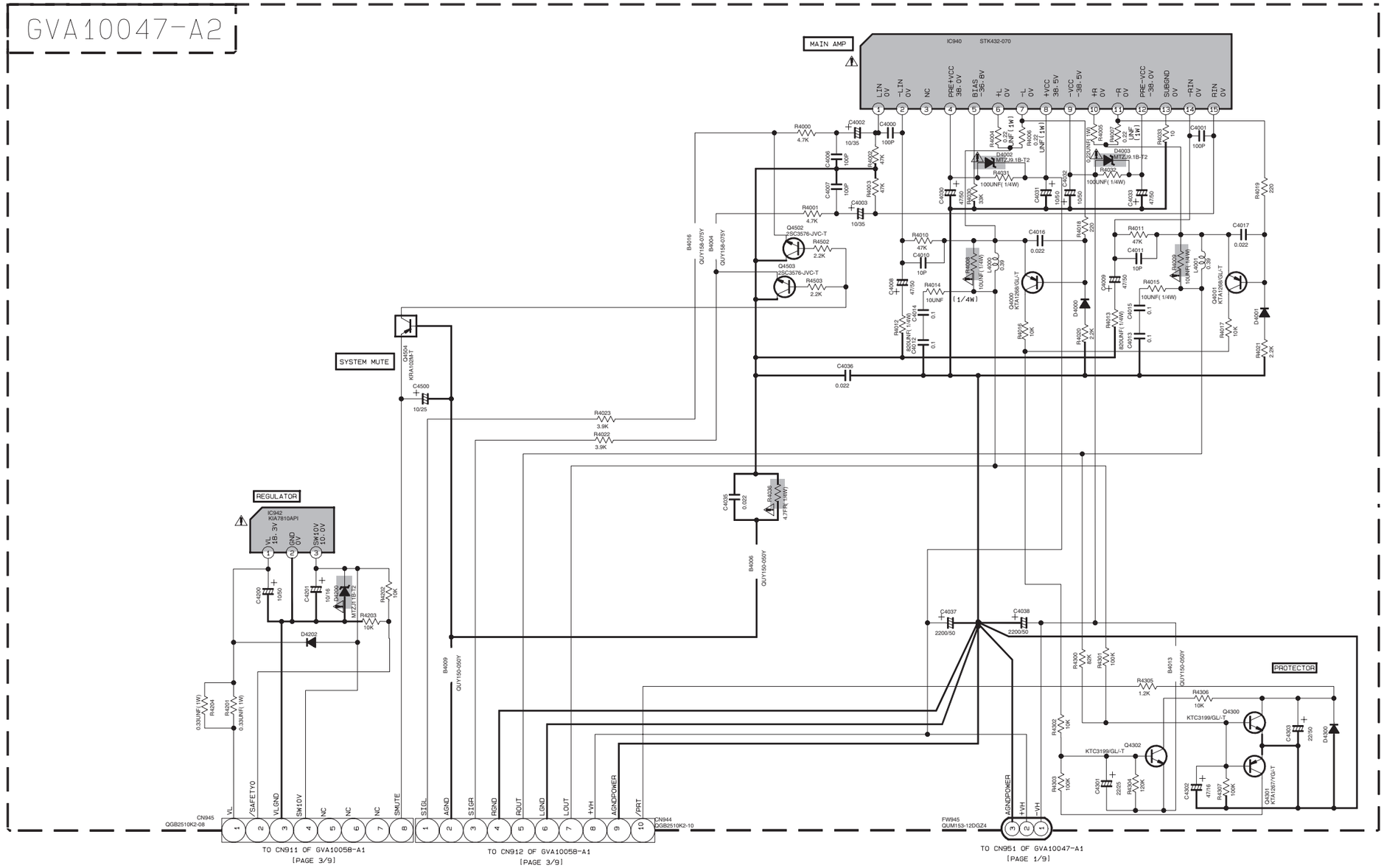
1. VOLTAGES ARE DC-MEASURED USING A DIGITAL VOLTMETER OR AN OSCILLOSCOPE WITHOUT INPUT SIGNAL CONDITION
2. UNLESS OTHERWISE SPECIFIED
   ALL RESISTORS ARE 1/6W 5%±CARBON RESISTOR.
   ALL CAPACITORS ARE 50V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITANCE VALUES ARE IN ≠F(P=pF).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(≠F)/RATED VOLTAGE (V).
   ALL DIODES ARE 1SS119-041-T2 TYPE UNLESS SPECIFIED
   POLYPROPYLENE CAPACITOR
   50V ±5% MYLAR CAPACITOR OR 50V 5% THIN FILM CAPACITOR

⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

VOLTAGE SELECTOR LOCATION



## ■ Power amp. section




⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

NOTES

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2. UNLESS OTHERWISE SPECIFIED
   ALL RESISTORS ARE 1/6W ±5% CARBON RESISTOR.
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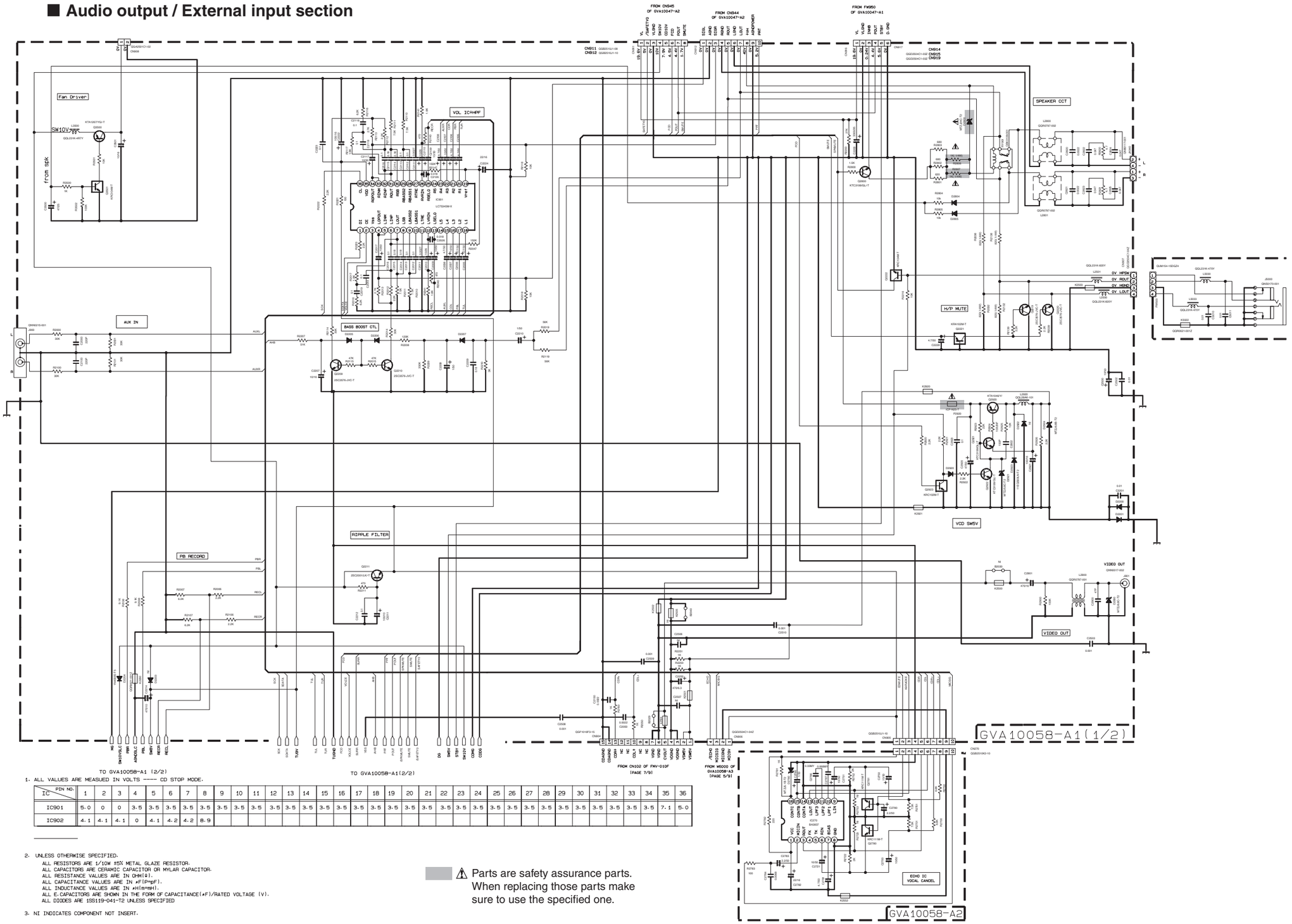
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V).
   ALL DIODES ARE 1SS119-041-T2 TYPE UNLESS SPECIFIED
   POLYPROPYLENE CAPACITOR
   50V ±5% MYLAR CAPACITOR OR 50V ±5% THIN FILM CAPACITOR
3. THOSE PART WITH BRACKET IS NOT USED.
   FOR RESISTOR. IT WOULD BE A SHORT.
   FOR CAPACITOR. IT WOULD BE AN OPEN.

## ■ Audio output / External input section




1. ALL VALUES ARE MEASUED IN VOLTS ---- CD STOP MODE.

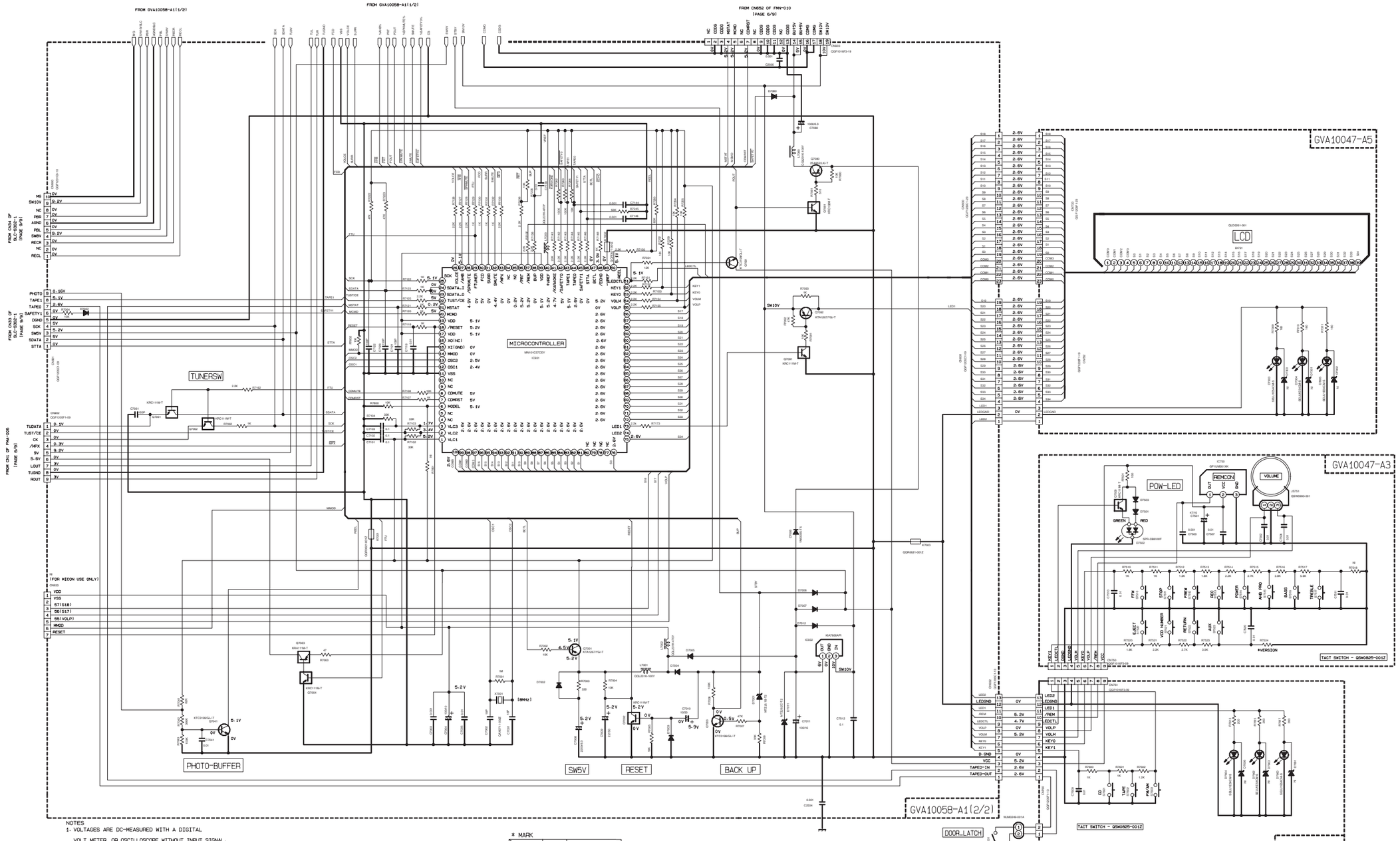
| PIN NO. / IC | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IC901 | 5.0 | 0 | 0 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 7.1 | 5.0 |
| IC902 | 4.1 | 4.1 | 4.1 | 0 | 4.1 | 4.2 | 4.2 | 8.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/10W ±5% METAL GLAZE RESISTOR.
   ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL INDUCTANCE VALUES ARE IN μH(m=mH).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V).
   ALL DIODES ARE 1SS119-041-T2 UNLESS SPECIFIED

3. NI INDICATES COMPONENT NOT INSERT.

⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

## ■ FL / Key control / Micon section



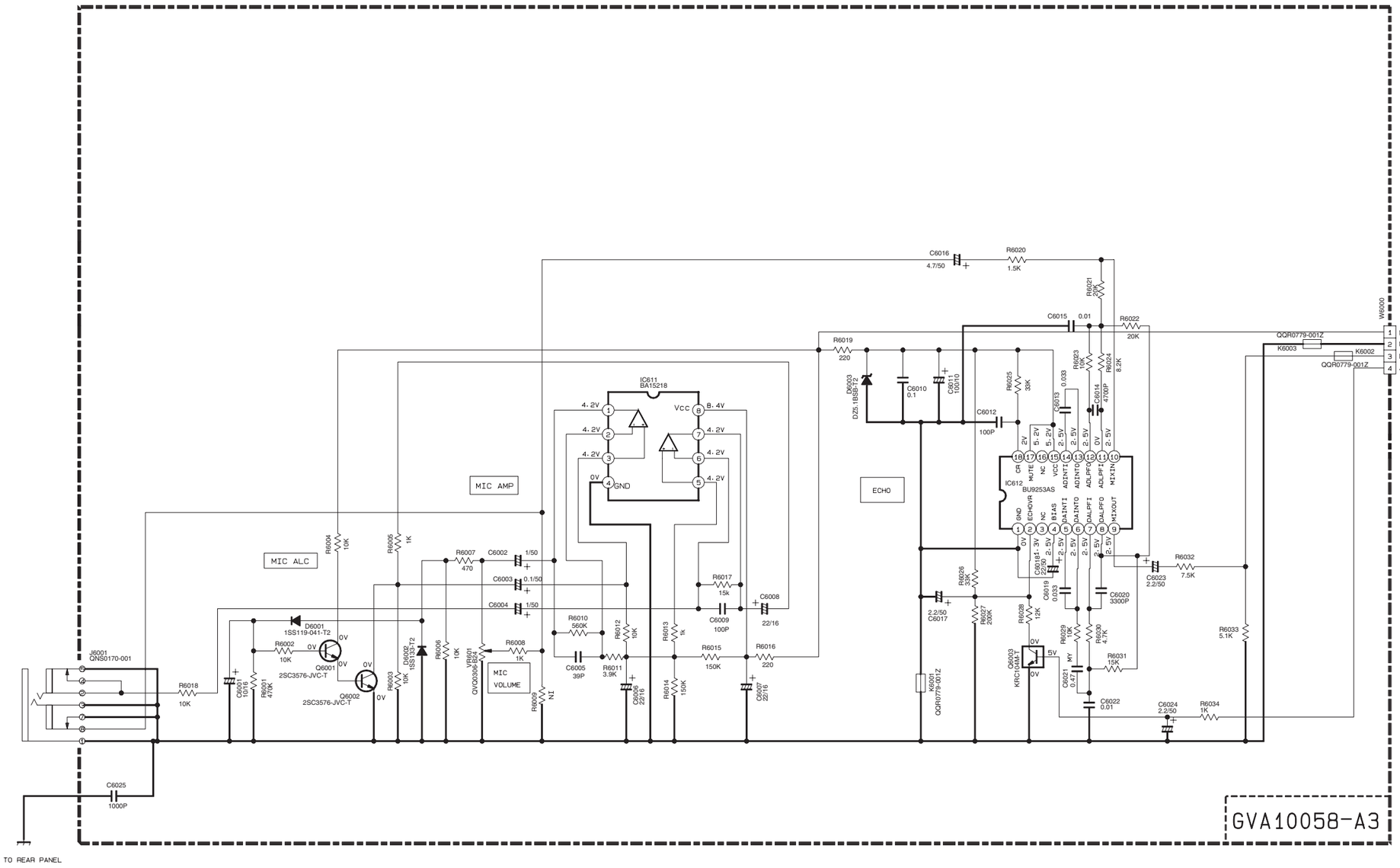

NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
   CONDITION ---- CD STOP MODE
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/10W ±5% METAL GLAZE RESISTOR.
   ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM( ).
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL INDUCTANCE VALUES ARE IN μH(m=mH).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF) /RATED VOLTAGE (V).
   ALL DIODES ARE 1SS119-041-T2 UNLESS SPECIFIED
3. NI INDICATES COMPONENT NOT INSERT.

* MARK

| ITEMS \ VERSION | UX | US/UN |
|---|---|---|
| R7524 | 15K | 33K |

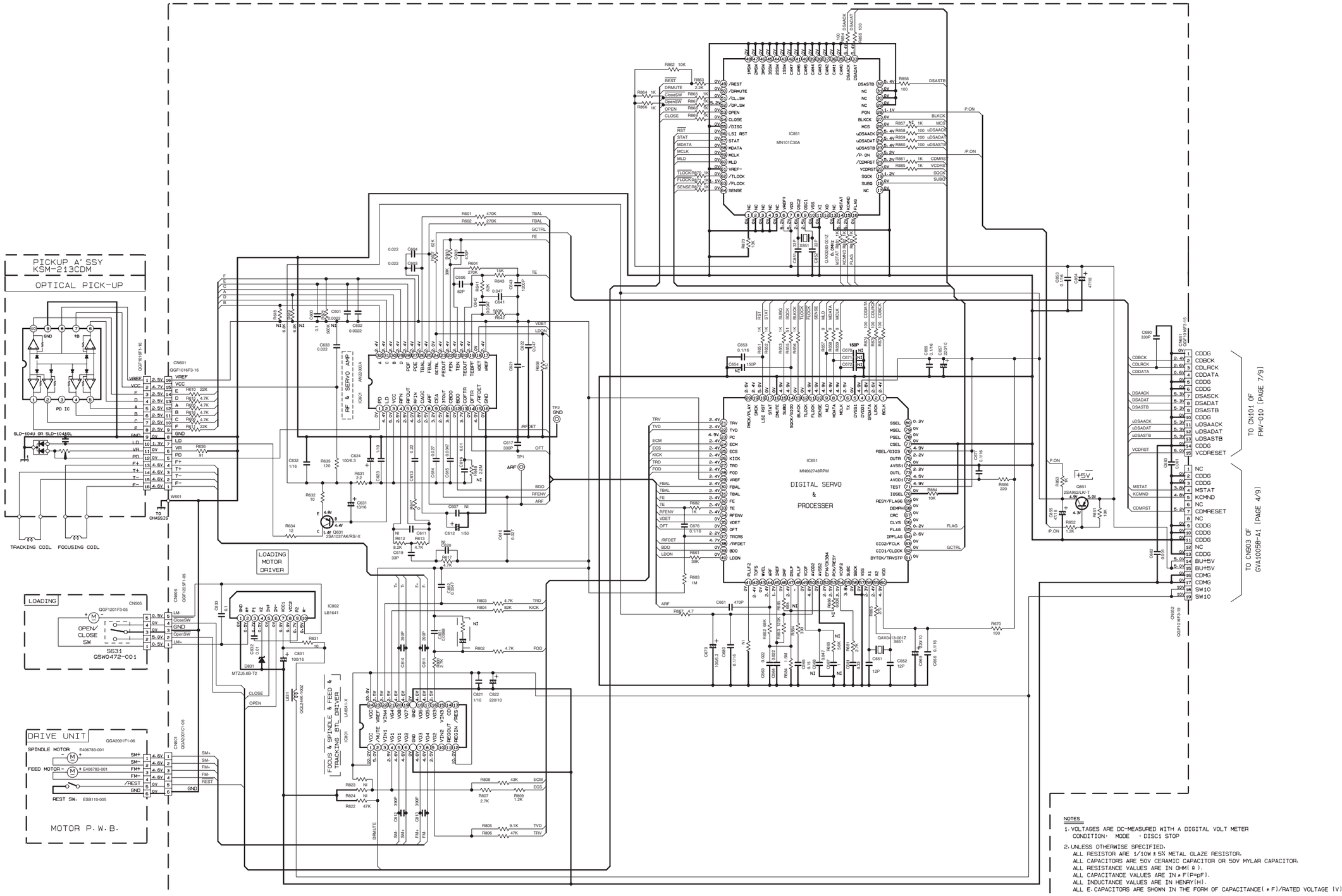
## ■ Mic amp. / Echo control section




NOTES 1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
CONDITION --- CD STOP MODE

2. UNLESS OTHERWISE SPECIFIED.
ALL RESISTORS ARE 1/10W ±5% METAL GLAZE RESISTOR.
ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
ALL RESISTANCE VALUES ARE IN OHM(Ω).
ALL CAPACITANCE VALUES ARE IN μF(P=pF).
ALL INDUCTANCE VALUES ARE IN μH(m=mH).
ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V).

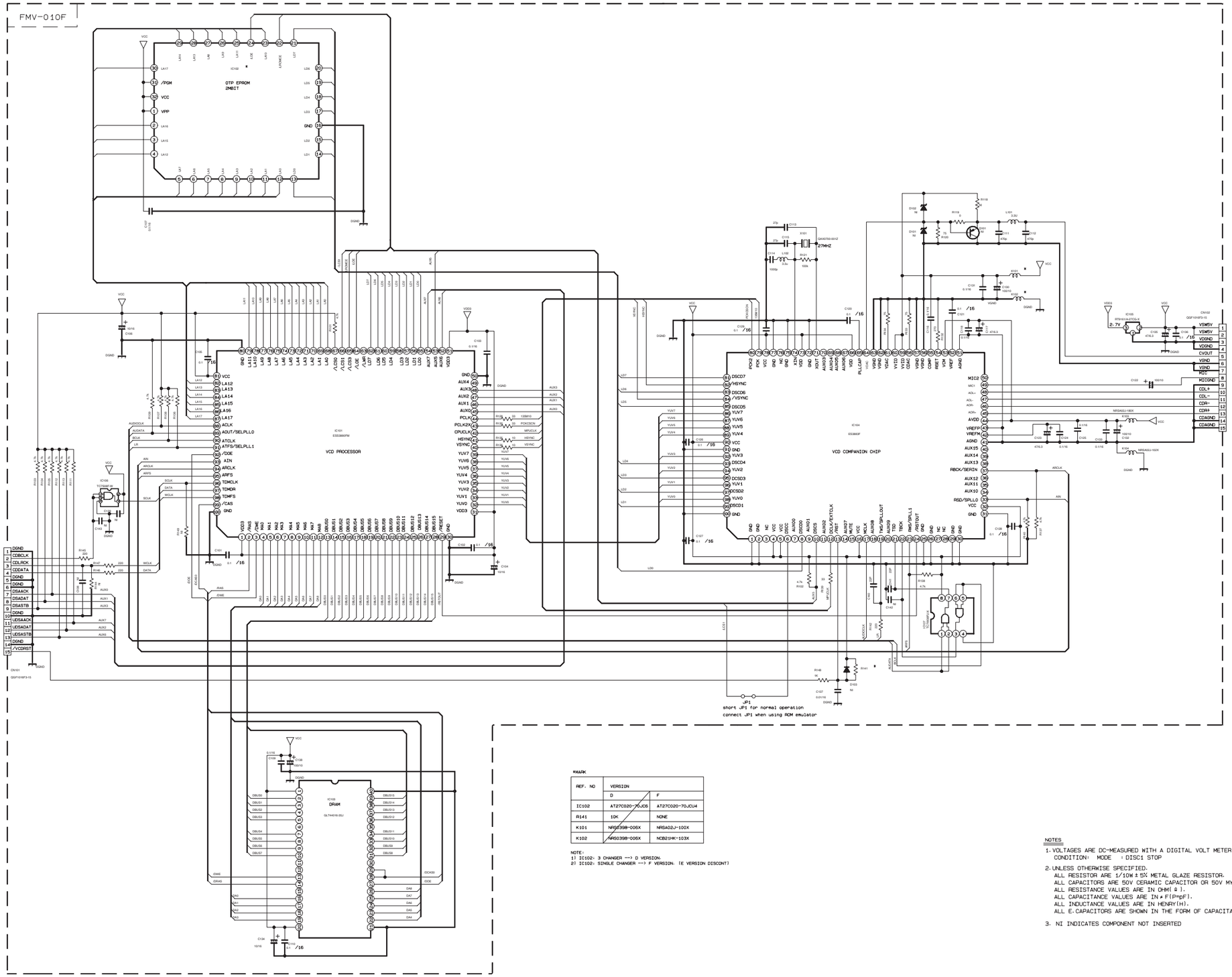
## ■ CD servo control section




NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER
   CONDITION: MODE : DISC1 STOP
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTOR ARE 1/10W ± 5% METAL GLAZE RESISTOR.
   ALL CAPACITORS ARE 50V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM( Ω ).
   ALL CAPACITANCE VALUES ARE IN ★F(P=pF).
   ALL INDUCTANCE VALUES ARE IN HENRY(H).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE( ★F)/RATED VOLTAGE (V).

## ■ VCD control section




*MARK

| REF. NO | VERSION | |
|---|---|---|
| | D | F |
| IC102 | AT27C020-70JC6 | AT27C020-70JCU4 |
| R141 | 10K | NONE |
| K101 | NRS0398-006X | NRSA02J-100X |
| K102 | NRS0398-006X | NCB21HK-103X |

NOTE:
1) IC102: 3 CHANGER --> D VERSION.
2) IC102: SINGLE CHANGER --> F VERSION. (E VERSION DISCONT)

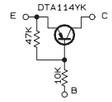
NOTES

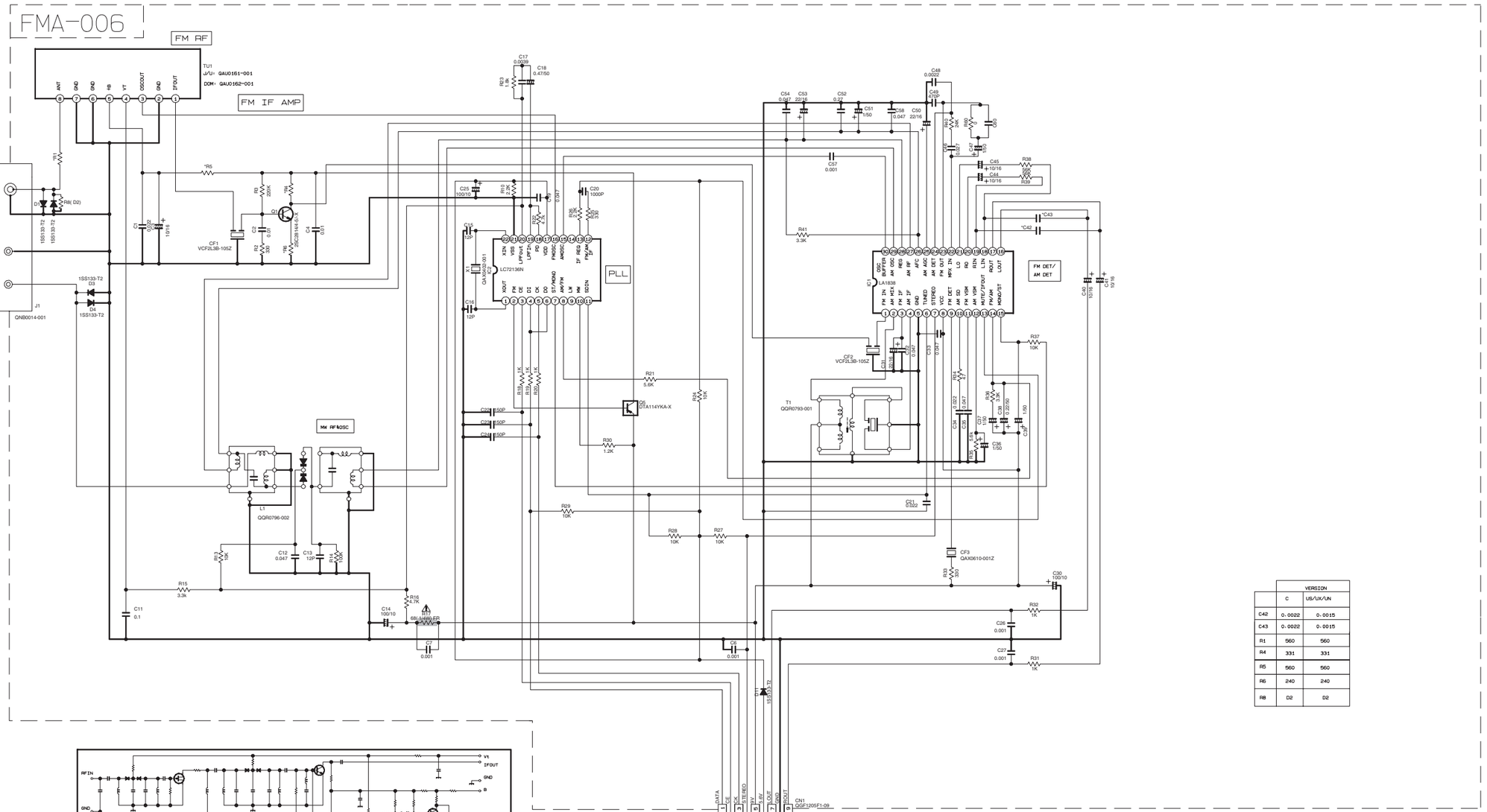
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER
   CONDITION: MODE : DISC1 STOP
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTOR ARE 1/10W ± 5% METAL GLAZE RESISTOR.
   ALL CAPACITORS ARE 50V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM( Ω ).
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL INDUCTANCE VALUES ARE IN HENRY(H).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE( μF)/RATED VOLTAGE (V).
3. NI INDICATES COMPONENT NOT INSERTED

## ■ Tuner section

NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER.
2. ALL RESISTORS ARE 1/8W ±5% METAL GLAZE RESISTOR.
3. ALL RESISTANCE VALUES ARE IN OHM(Ω).
4. ALL CAPASITANCE VALUES ARE IN μF(P=pF).
5. ALL E.CAPASITORS ARE SHOWN IN THE FORM OF CAPASITANCE (μF)/RATED VOLTAGE (V).
6. SI DIODES (▶|) ARE ALL 1SS133-T THAT CAN BE CHANGED TO SIMILAR DIODE SUCH AS MA165 OR HSS104J.
7. PARTS NO. OF TRANSISTORS ARE AS FOLLOWS.
   Q1 2SC2814/4-5/-X Q2,Q3 2SC2412K/R/-X
   Q4,Q5 DTA114YKA-X
8. INSIDE OF DIGITAL TRANSISTORS ARE SHOWN AS FOLLOWS.







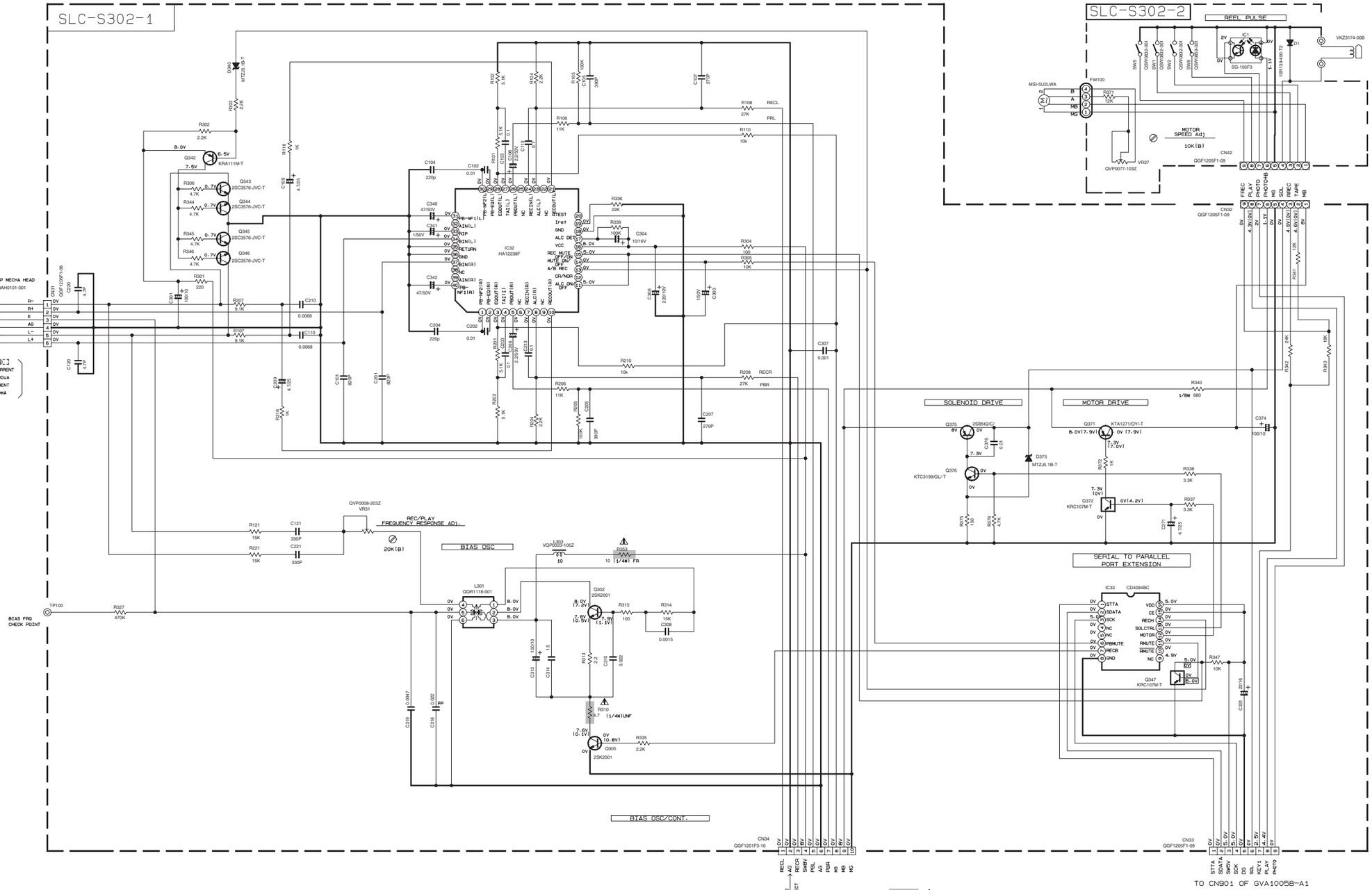
| | VERSION | |
|---|---|---|
| | C | US/UX/UN |
| C42 | 0.0022 | 0.0015 |
| C43 | 0.0022 | 0.0015 |
| R1 | 560 | 560 |
| R4 | 331 | 331 |
| R5 | 560 | 560 |
| R6 | 240 | 240 |
| R8 | D2 | D2 |

| | CONDITION PIN NO. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IC1 | FM NO SIGNAL | 3.6 | 8.9 | 3.6 | 3.6 | 0 | 5.0 | 5.0 | 8.9 | 8.9 | 1.3 | 0.1 | 0 | 0.9 | 7.8 | 7.8 | 4.3 | 4.3 | 4.3 | 4.3 | 3.4 | 3.4 | 2.8 | 3.4 | 0 | 0 | 3.5 | 3.5 | 3.6 | 3.6 | 2.7 |
| | FM 60dB STEREO | 3.6 | 8.9 | 3.6 | 3.6 | 0 | 0 | 5.0 | 8.9 | 8.9 | 1.3 | 4.3 | 0 | 0.9 | 7.8 | 7.8 | 4.3 | 4.3 | 4.3 | 4.3 | 3.4 | 3.4 | 2.8 | 3.4 | 0 | 0 | 3.6 | 3.6 | 3.6 | 3.6 | 2.7 |
| | AM NO SIGNAL | 3.5 | 9.0 | 3.5 | 3.5 | 0 | 5.0 | 5.1 | 9.0 | 2.6 | 1.3 | 0 | 0 | 0.9 | 4.7 | 5.5 | 4.3 | 4.3 | 4.3 | 4.3 | 3.3 | 3.2 | 2.8 | ust | 0.7 | 0.7 | 3.6 | 3.6 | 3.6 | 3.6 | 2.1 |
| IC2 | FM NO SIGNAL | 2.5 | 0 | 0 | 5.0 | 4.9 | 5.0 | 7.9 | 7.8 | 3.6 | 6.1 | 5.1 | 0 | 0 | 0 | 0 | 2.5 | 5.1 | 0.9 | 0.9 | 3.8 | 0 | 2.3 | | | | | | | | |

| Tr NO. | Q1 | | | Q5 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| PIN NO. | E | C | B | E | C | B | | | |
| FM 87.5MHz NO SIGNAL | 0 | 7.1 | 0.85 | 8.9 | 8.8 | 0 | | | |
| AM 522KHz NO SIGNAL | 0 | 0 | 0 | 9.0 | 0 | 8.9 | | | |
| Tr NO. | Q2 | | | Q3 | | | Q4 | | |
| PIN NO. | E | C | B | E | C | B | E | C | B |
| AM 522KHz NO SIGNAL | 0 | 0 | 0.7 | 0 | 0 | 0.7 | 0 | 3.6 | 0.7 |
| AM 144KHz NO SIGNAL | 0 | 0 | 0.3 | 0 | 0.3 | 0.3 | 3.6 | 3.6 | 3.6 |

⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

## ■ Cassette mechanism section




NOTES

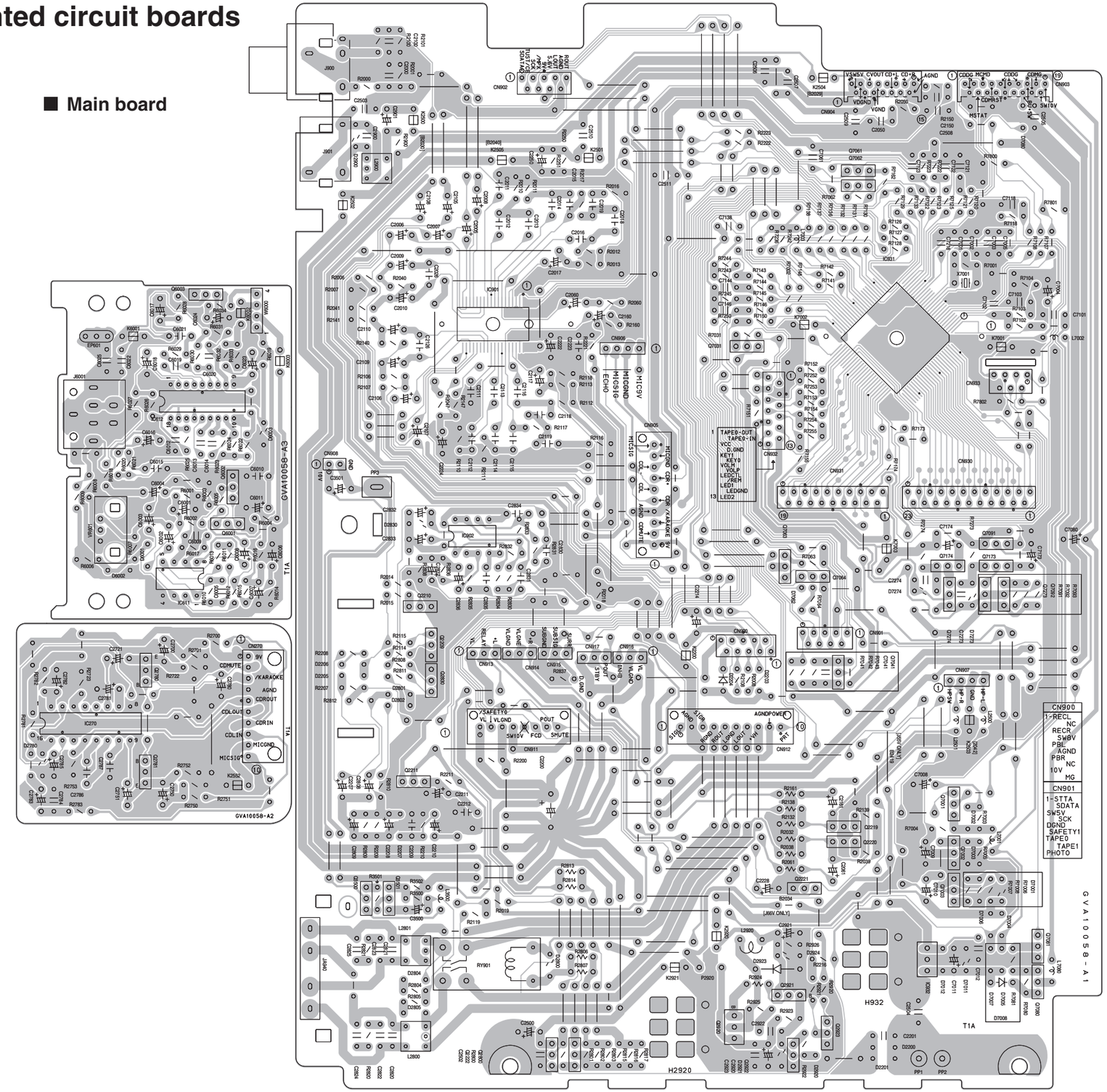
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
   CONDITION : MECHA STOP MODE

2. UNLESS OTHERWISE SPECIFIED , RESISTORS ARE 1/10W ±5% METAL GLAZE RESISTOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL INDUCTANCE VALUES ARE IN μH(m=mH).
   ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).
   ⫫ POLYPROPYLENE CAPACITOR

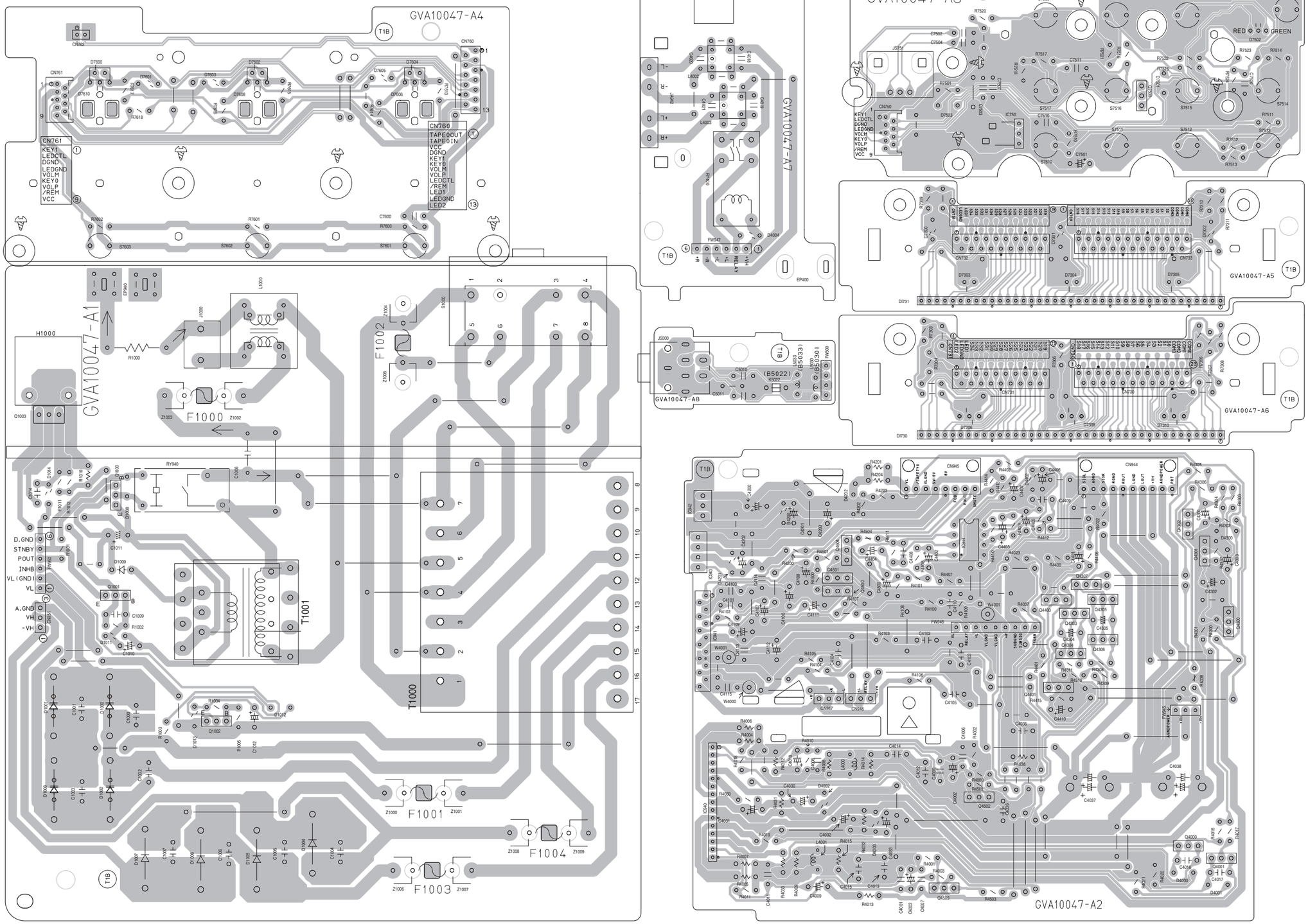
⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

# Printed circuit boards

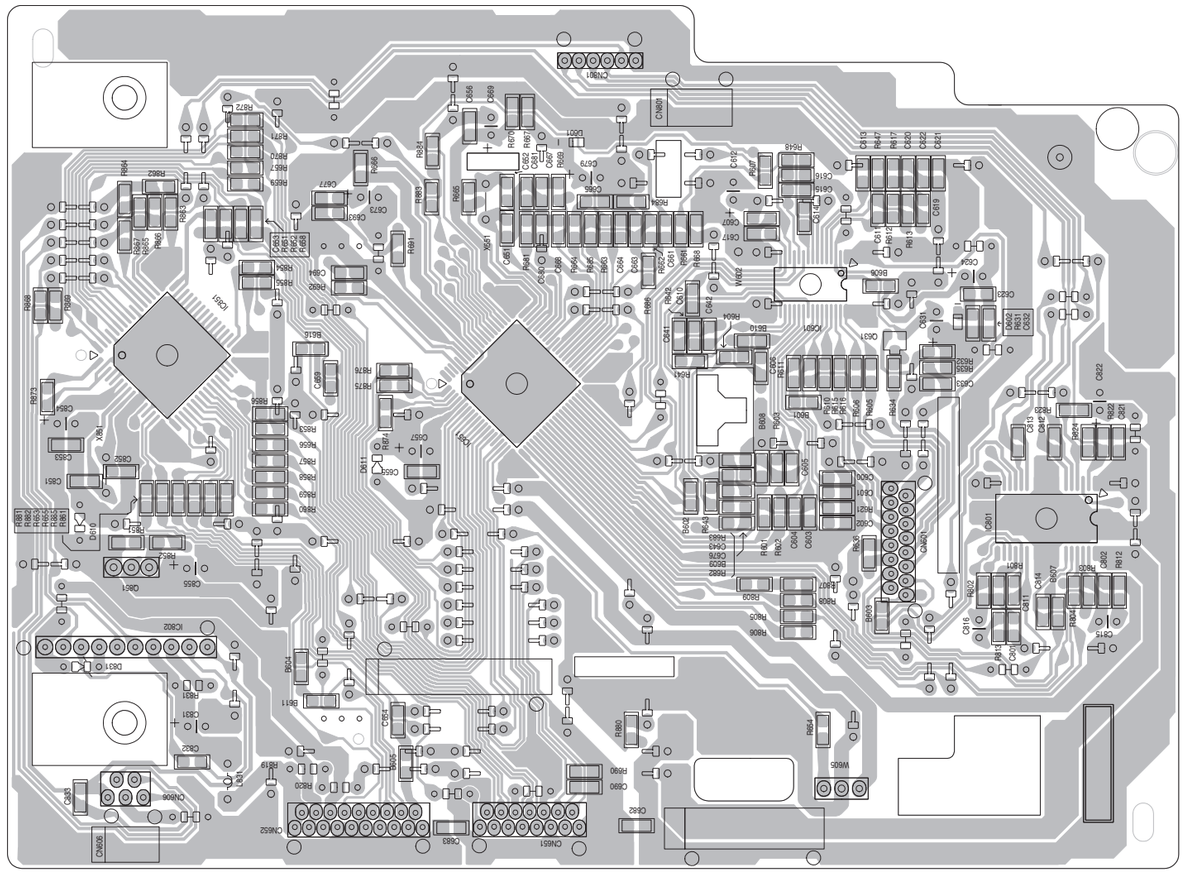
## ■ Main board



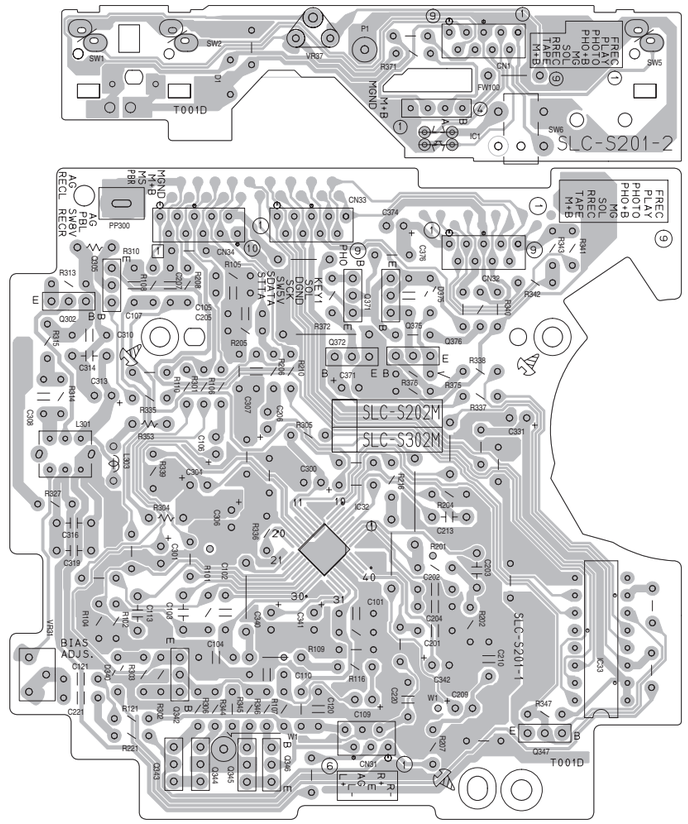
## ■ Trans board / FL / Front board



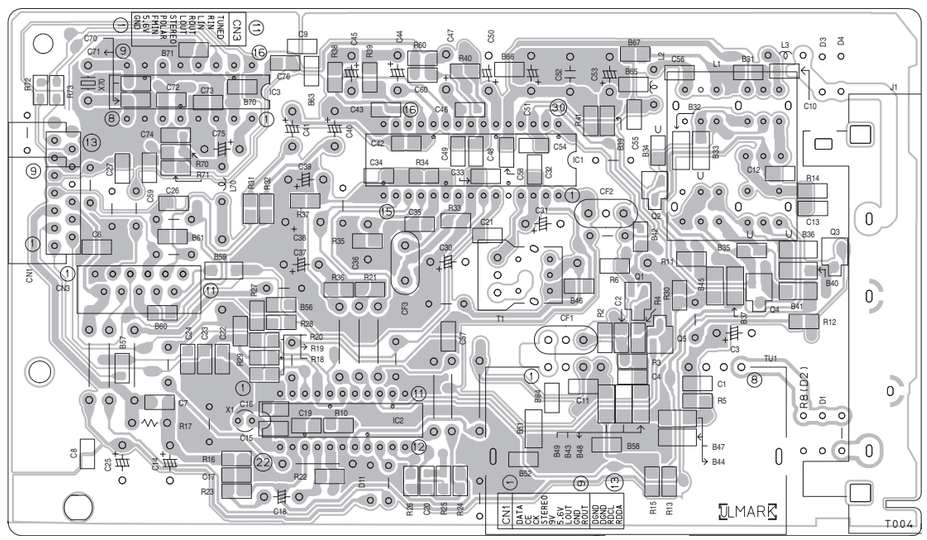
## ■ CD servo control board



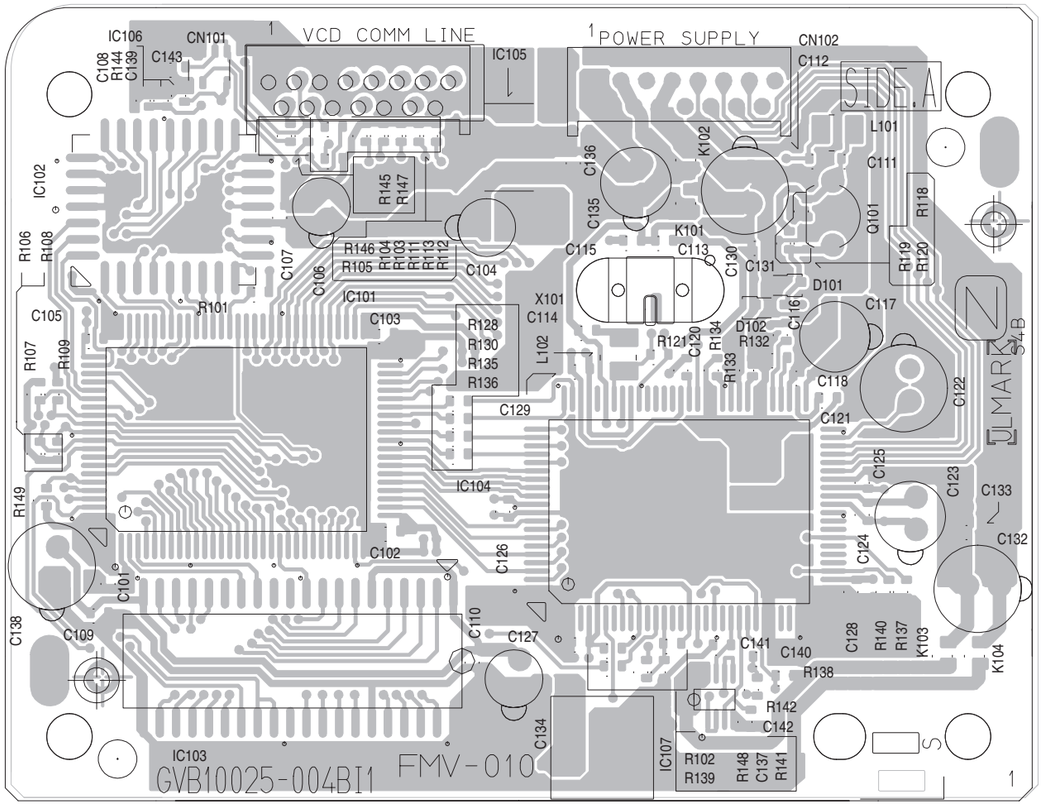
## ■ Cassette mechanism control board



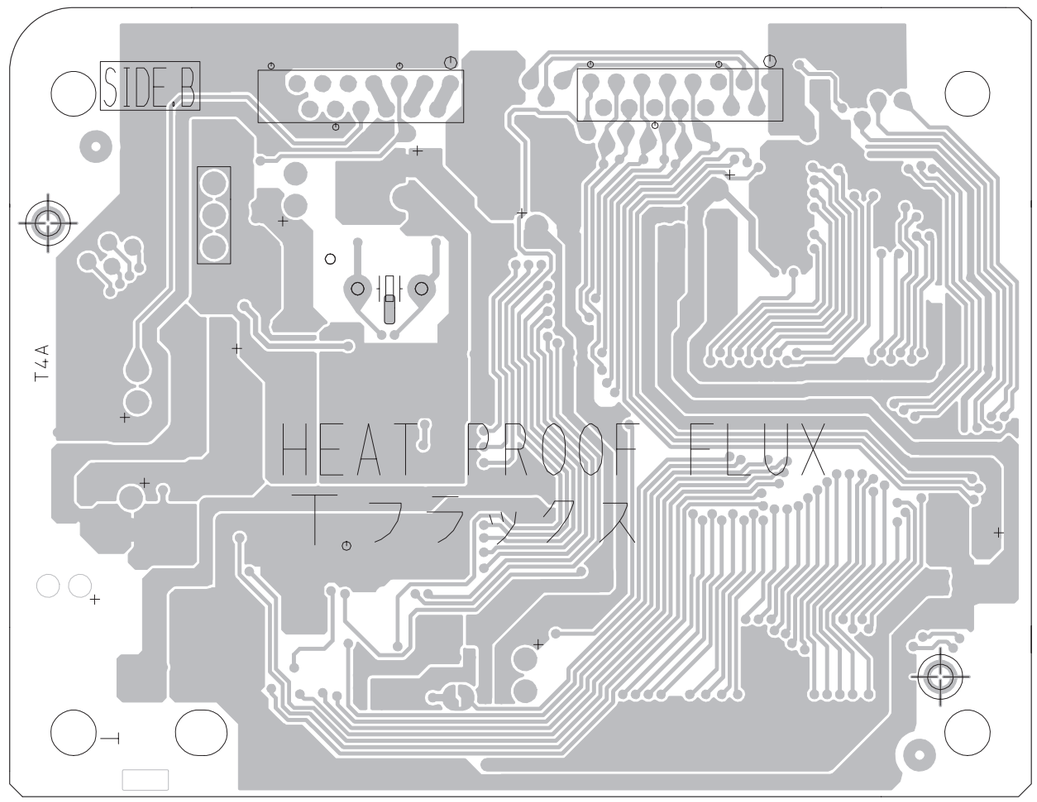

## ■ Tuner board



## ■ VCD board (forward side)




## ■ VCD board (reverse side)



< MEMO >

JVC

**VICTOR COMPANY OF JAPAN, LIMITED**

AV & MULTIMEDIA COMPANY AUDIO/VIDEO SYSTEMS CATEGORY 10-1,1chome,Ohwatari-machi,Maebashi-city,371-8543,Japan

(No.MB057SCH)

Printed in Japan
WPC

# PARTS LIST

## [ UX-J55V ]

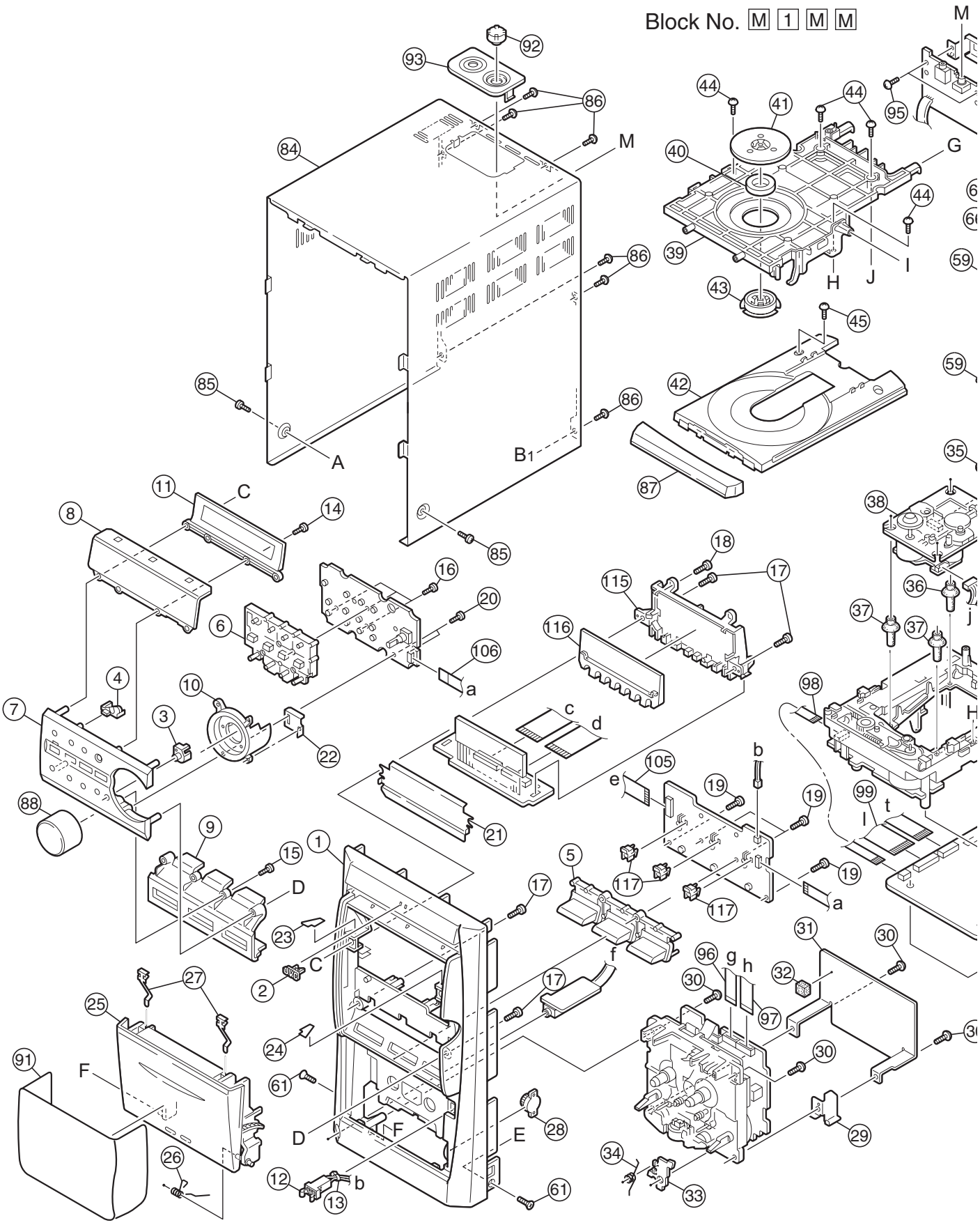
* All printed circuit boards and its assemblies are not available as service parts.

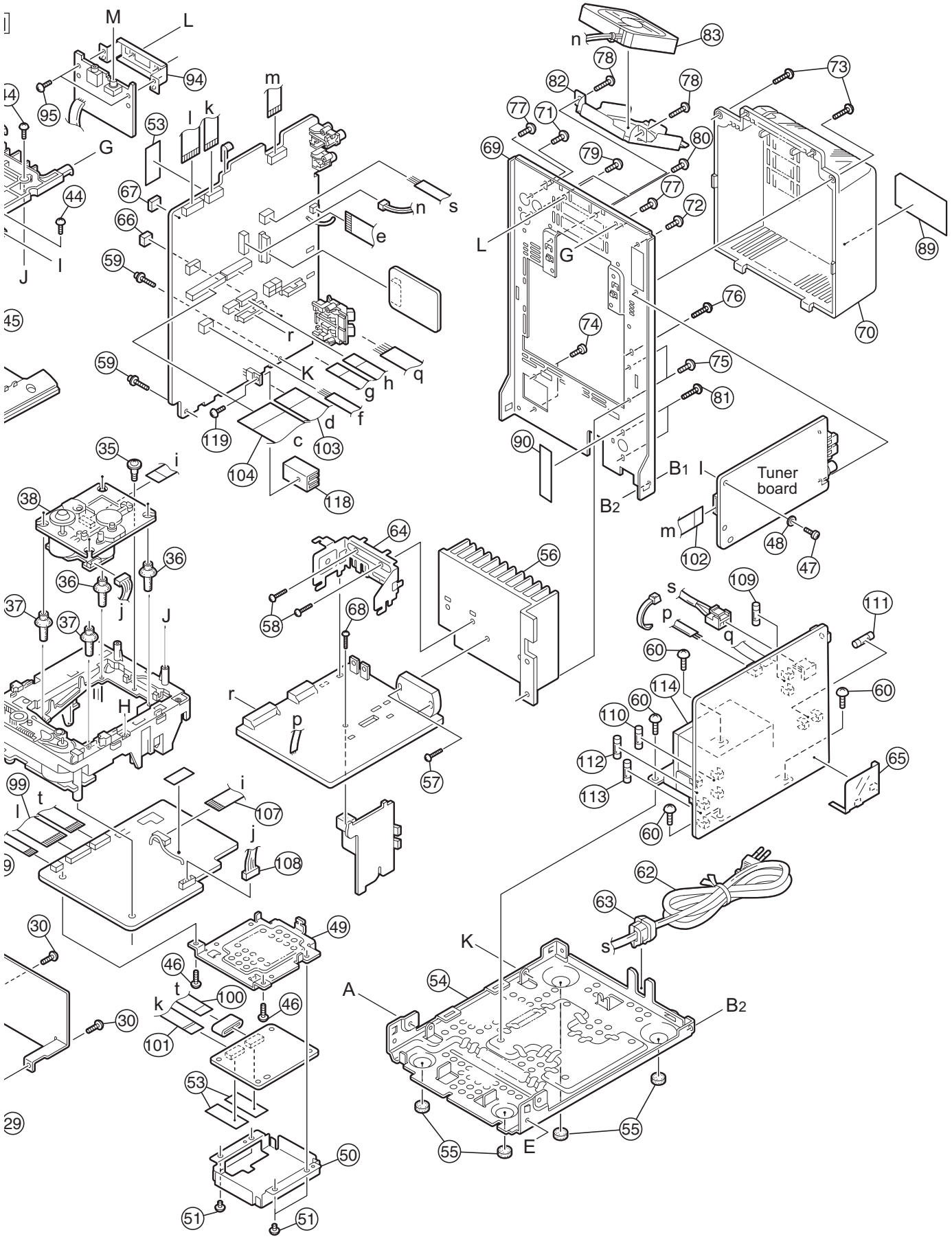
Area suffix

US ---------- Singapore
UN ----------Asean

- Contents -

# Exploded view of general assembly and parts list




Tuner board

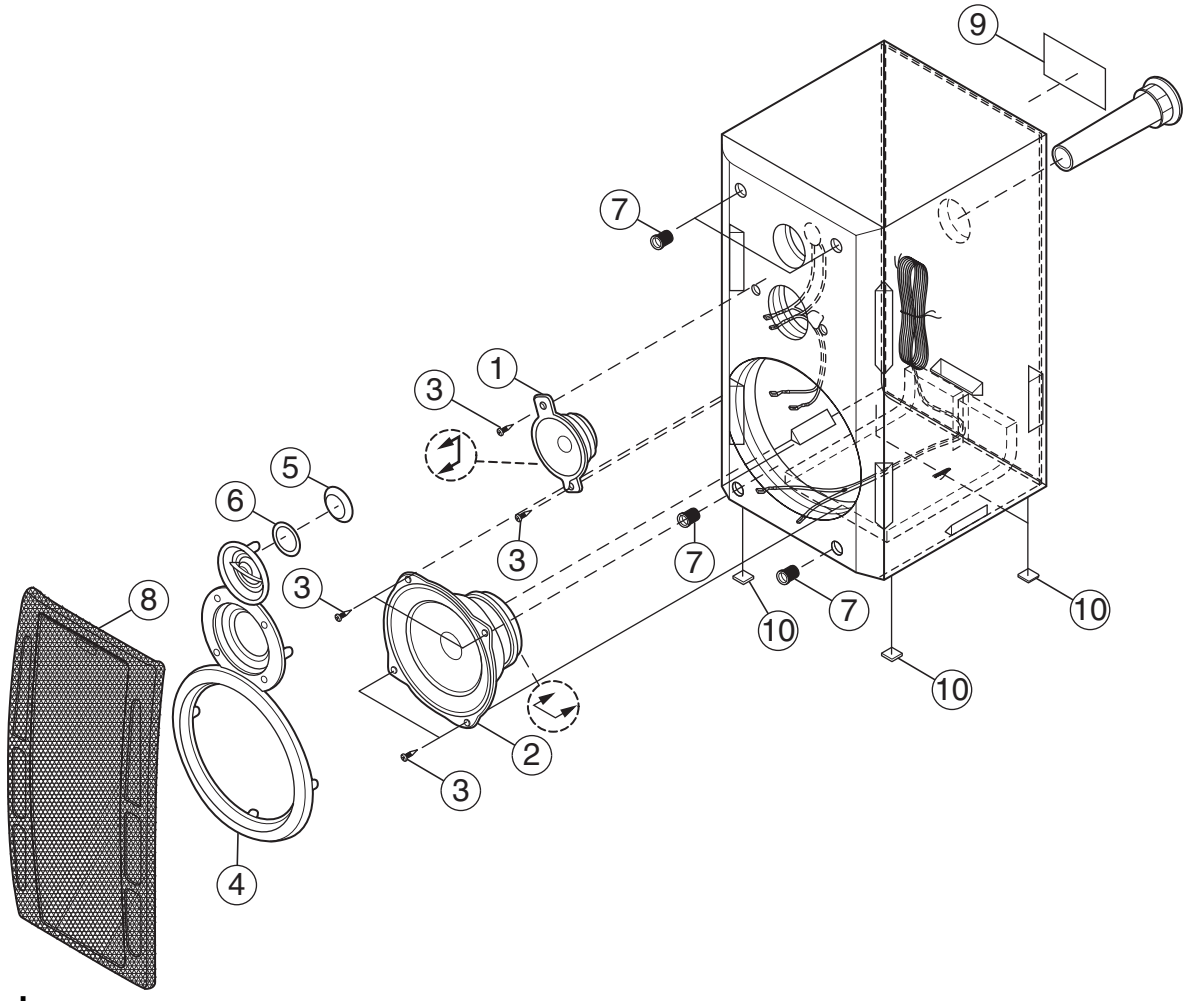
# General assembly

Block No. [M][1][M][M]

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| 1 | GV10123-003A | FRONT PANEL | | |
| 2 | GV40077-002A | JVC BADGE | | |
| 3 | GV40367-001A | REMOTE LENS | | |
| 4 | GV40366-001A | STANDBY LENS | | |
| 5 | GV30398-003A | FUNC.BTN.ASSY. | | |
| 6 | GV20196-003A | CONTROL BTN. | | |
| 7 | GV20195-003A | FRONT PLATE | | |
| 8 | GV30390-003A | FRONT LENS A | | |
| 9 | GV30391-002A | FRONT LENS B | | |
| 10 | GV30389-003A | VOLUME ORNAMENT | | |
| 11 | GV30393-002A | LCD COVER | | |
| 12 | QSW0920-001 | PUCH LOCK SW | | |
| 13 | WJM0249-001A | E-SI C WIRE C-F | | |
| 14 | QYSDSF2608Z | SCREW | 2.6mm x 8mm | |
| 15 | QYSDSF2608Z | SCREW | 2.6mm x 8mm | |
| 16 | QYSDSF2608Z | SCREW | 2.6mm x 8mm(x3) | |
| 17 | QYSDSF2608Z | SCREW | 2.6mm x 8mm(x4) | |
| 18 | QYSDSF2608Z | SCREW | 2.6mm x 8mm | |
| 19 | QYSDSF2608Z | SCREW | 2.6mm x 8mm(x4) | |
| 20 | QYSDSF2608Z | SCREW | 2.6mm x 8mm(x2) | |
| 21 | GV40412-001A | OPAQUE SHEET A | | |
| 22 | GV40413-001A | OPAQUE SHEET B | | |
| 23 | GV40416-001A | MIRROR SHEET | | |
| 24 | GV40416-002A | MIRROR SHEET | | |
| 25 | GV10124-005A | CASSETTE DOOR | | |
| 26 | GV40277-001A | DOOR SPRING | | |
| 27 | VKY4180-401 | CASSETTE SPRING | (x2) | |
| 28 | GV40034-001A | DAMPER ASSY. | | |
| 29 | GV40369-001A | SPRING HOLDER | | |
| 30 | QYSBSF3012Z | TAP SCREW | 3.0mm x 12mm(x4) | |
| 31 | GV30124-002A | TRANS SHIELD | | |
| 32 | GV40170-003A | SPACER | | |
| 33 | GV40414-001A | EJECT SAFETY | | |
| 34 | VKW5258-003 | TORSION SPRING | | |
| 35 | E406293-001 | SPECIAL SCREW | | |
| 36 | GV40196-001A | INSULATOR | (x2) | |
| 37 | GV40196-002A | INSULATOR | (x2) | |
| 38 | KSM-213CCMJ | CD MECHA ASSY | | |
| 39 | GV10102-002A | CLAMPER BASE | | |
| 40 | VYH7313-005 | P.C.MAGNET | | |
| 41 | E306836-223SS | CD YOKE (JES) | | |
| 42 | VYH1240-001 | TRAY | | |
| 43 | GV30202-001A | CD CLAMPER | | |
| 44 | QYSBSF3008Z | SCREW | 3mm x 8mm(x4) | |
| 45 | QYSBSF3008Z | SCREW | 3mm x 8mm | |
| 46 | QYSBSF3008Z | SCREW | 3mm x 8mm(x2) | |
| 47 | QYSDSF2608Z | SCREW | 2.6mm x 8mm | |
| 48 | GV40122-003A | FOOT SPACER | | |
| 49 | GV30220-001A | SHIELD CASE(UPP | | |
| 50 | GV30221-001A | SHIELD CASE(LOW | | |
| 51 | QYSBST3004Z | SCREW | 3mm x 4mm(x4) | |
| 53 | VYSA1R3-003 | SPACER | (x3) | |
| 54 | GV10103-002A | BOTTOM CHASSIS | | |
| 55 | GV40312-002A | FOOT SPACER | (x4) | |
| 56 | GV30395-002A | HEAT SINK | | |
| 57 | QYSBSF3016Z | TAP SCREW | 3mm x 16mm(x2) | |
| 58 | QYSBSF3016Z | TAP SCREW | 3mm x 16mm(x2) | |
| 59 | QYSBSF3016Z | TAP SCREW | 3mm x 16mm(x2) | |
| 60 | QYSBST4006Z | SCREW | 4mm x 6mm(x4) | |
| 61 | QYSSST3008Z | SCREW | 3mm x 8mm(x2) | |
| ⚠ 62 | QMPK200-200-JD | POWER CORD(EU) | 2m BLACK | |
| ⚠ 63 | QZW0033-001 | STRAIN RELIEF | | |
| 64 | GV30414-001A | IC HOLDER | | |
| 65 | GV40322-001A | PROTECT SHEET A | | |
| 66 | GV40170-003A | SPACER | | |
| 67 | GV30349-011A | SPACER | | |
| 68 | QYSBSF3008Z | SCREW | 3mm x 8mm | |
| 69 | GV10104-013A | REAR PANEL | | |
| 70 | GV10105-012A | REAR COVER | | |
| 71 | QYSBSGY3008E | SPECIAL SCREW | 3mm x 8mm | |
| 72 | QYSBSGY3008E | SPECIAL SCREW | 3mm x 8mm | |
| 73 | QYSBSGY3010E | SPECIAL SCREW | 3mm x 10mm(x2) | |
| 74 | QYSBSGY3008E | SPECIAL SCREW | 3mm x 8mm(x2) | |
| 75 | QYSBSGY3008E | SPECIAL SCREW | 3mm x 8mm(x2) | |
| 76 | QYSBSGY3008E | SPECIAL SCREW | 3mm x 8mm | |
| 77 | QYSBSGY3008E | SPECIAL SCREW | 3mm x 8mm(x2) | |
| 78 | QYSBSGY3008E | SPECIAL SCREW | 3mm x 8mm(x2) | |
| 79 | QYSBSGY3008E | SPECIAL SCREW | 3mm x 8mm | |
| 80 | QYSBSGY3008E | SPECIAL SCREW | 3mm x 8mm(x2) | |
| 81 | QYSBSF3012E | SPECIAL SCREW | 3mm x 12mm(x2) | |
| 82 | GV30493-001A | FAN BRACKET | | |
| 83 | QAR0230-001 | FAN | | |
| 84 | GV10106-001A/S/ | METAL COVER | | |
| 85 | QYSDSG3006M | TAP SCREW | 3mm x 6mm(x2) | |
| 86 | QYSBSGY3008E | SPECIAL SCREW | 3mm x 8mm(x6) | |
| 87 | GV30397-005A | CD FITTING | | |
| 88 | GV30396-001A | VOL.KNOB | | |
| 89 | GV30492-001A | RATING LABEL | | |
| ⚠ 90 | LV41843-001A | LASER CAUTION | | |
| 91 | GV40168-008A | SHEET | | |
| 92 | GV40285-001A | MIC VOL.KNOB | | |
| 93 | GV30273-001A | MIC COVER | | |
| 94 | GV40286-001A | MIC BRACKET | | |
| 95 | QYSDSG3006M | TAP SCREW | 3mm x 6mm(x2) | |
| 96 | QUQH12-0914AJ | CARD WIRE | FC 33 | |
| 97 | QUQH12-1018AJ | CARD WIRE | FC 34 | |
| 98 | QUQH12-0507BJ | CARD WIRE | FC606 | |
| 99 | QUQH10-1914BJ | CARD WIRE | | |
| 100 | QUQH10-1507AJ | CARD WIRE | | |
| 101 | WJU0008-001A | CARD WIRE | | |
| 102 | QUQH12-0932BJ | CARD WIRE | FC 1 | |
| 103 | QUQH12-1922AJ | CARD WIRE | FC731 | |
| 104 | QUQH12-2317AJ | CARD WIRE | FC730 | |
| 105 | QUQH12-1316AJ | CARD WIRE | FC760 | |
| 106 | QUQH10-0910BJ | CARD WIRE | FC750 | |
| 107 | QUQ110-1609AJ | CARD WIRE | FC601 | |
| 108 | QJJ010-060801 | WIRE | W 801 | |
| ⚠ 109 | QMF51W2-3R15-J8 | FUSE | F 1000 3.15A AC250V | |
| ⚠ 110 | QMF51W2-2R0-J8 | FUSE | F 1001 2A AC250V | |
| ⚠ 111 | QMF51W2-1R6-J8 | FUSE | F 1002 1.6A AC250V | |
| ⚠ 112 | QMF51W2-5R0-J8 | FUSE | F 1003 5A AC250V | |
| ⚠ 113 | QMF51W2-5R0-J8 | FUSE | F 1004 5A AC250V | |
| ⚠ 114 | QQT0406-003 | POWER TRANSF | T 1000 | |
| 115 | GV30392-003A | LCD HOLDER | | |
| 116 | GV40368-001A | LCD LENS | | |
| 117 | GV40411-001A | LED HOLDER | (x3) | |
| 118 | LV40057-H30B | HEAT SINK | | |
| 119 | QYSBSF3010Z | TAP SCREW | 3mm x 10mm | |

# Speaker assembly and parts list

Block No. M 2 M M



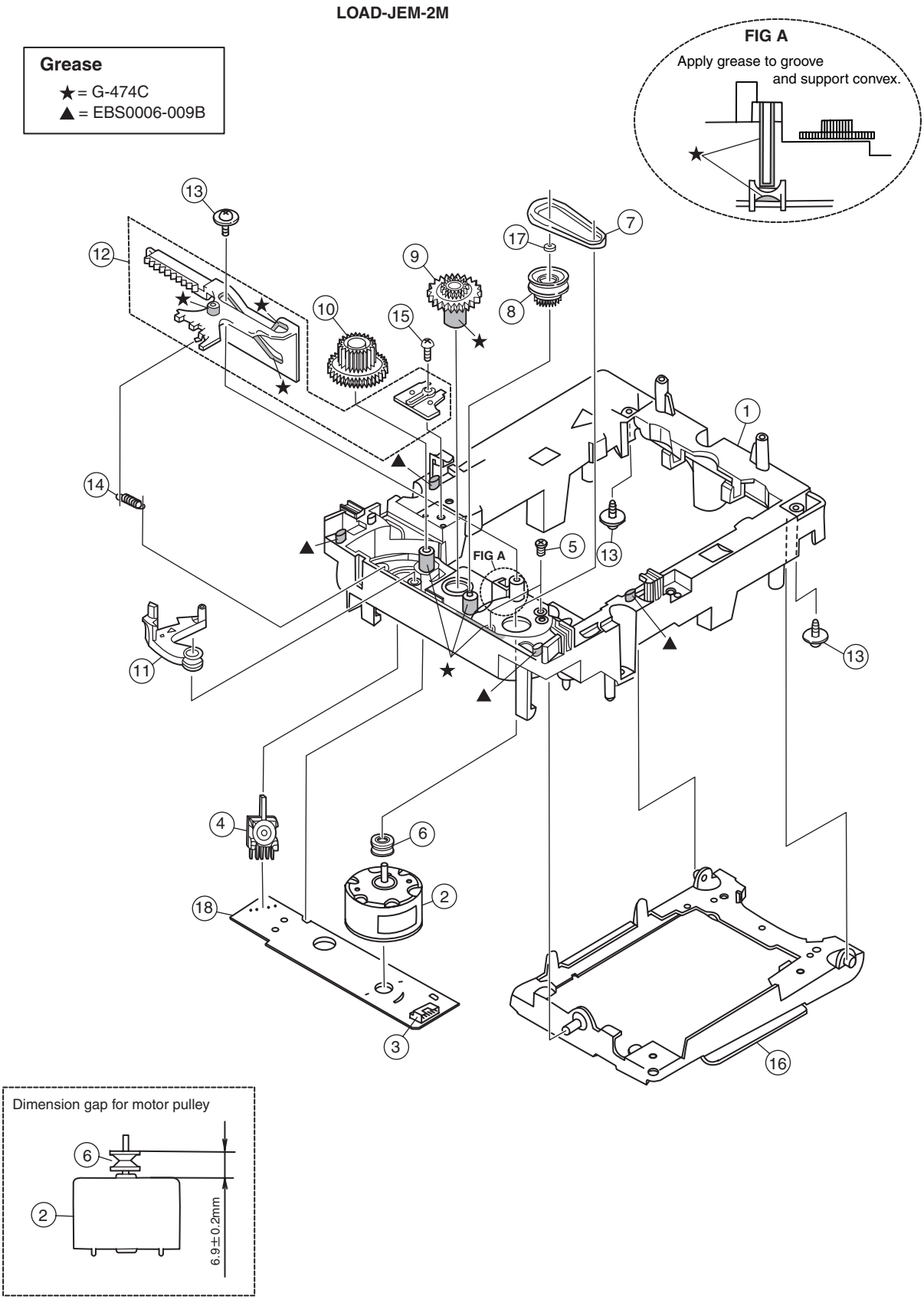

## Speaker

Block No. [M][2][M][M]

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| 1 | 993060400036 | TWEETER ASSY | (x2) | |
| 2 | 991061200072 | CONE SPEAKER | (x2) | |
| 3 | 135604141062 | SCREW | (x12) | |
| 4 | 151732601147 | FRONT PANEL | (x2) | |
| 5 | 108650251048 | DIAPHRAGM | (x2) | |
| 6 | 138730251130 | D.SIDE TAPE | (x2) | |
| 7 | 147780121071 | GROMMET | (x8) | |
| 8 | 199732750179 | GRILL FRAME ASSY | (x2) | |
| 9 | 137640601427 | RATING LABEL | (x2) | |
| 10 | 147760081069 | LEG CUSHION | (x8) | |

# CD loading base assembly and parts list

Block No. M D M M



# CD loading mechanism

Block No. [M][D][M][M]

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| 1 | VYH1238-001 | LOADING BASE | | |
| 2 | MMN-6F1LB8K | MOTOR | | |
| 3 | QGF1201F3-05 | CONNECTOR | FFC/FPC (1-5) | |
| 4 | QSW0472-001 | SWITCH | | |
| 5 | QYSPSPT2640Z | SCREW | 2.6mm x 4mm(x2) | |
| 6 | E75984-221SS | MOTOR PULLEY | | |
| 7 | E75950-002 | C.D BELT | | |
| 8 | E75985-221SS | C.D GEAR (1) | | |
| 9 | E75986-221SS | C.D GEAR (2) | | |
| 10 | E75987-221SS | C.D GEAR (3) | | |
| 11 | E307162-331SS | LEVER | | |
| 12 | E307252-331SS | CAM PLATE | | |
| 13 | E65923-003 | TAPPING SCREW | (x3) | |
| 14 | VYH7787-001 | SPRING | | |
| 15 | QYSBSF3008Z | SCREW | 3mm x 8mm | |
| 16 | E307179-222SM | E.BASE ASSY | | |
| 17 | E60912-005SS | SPEED NUT | | |
| 18 | VMW1329-102 | P W BOARD (1/5) | | |

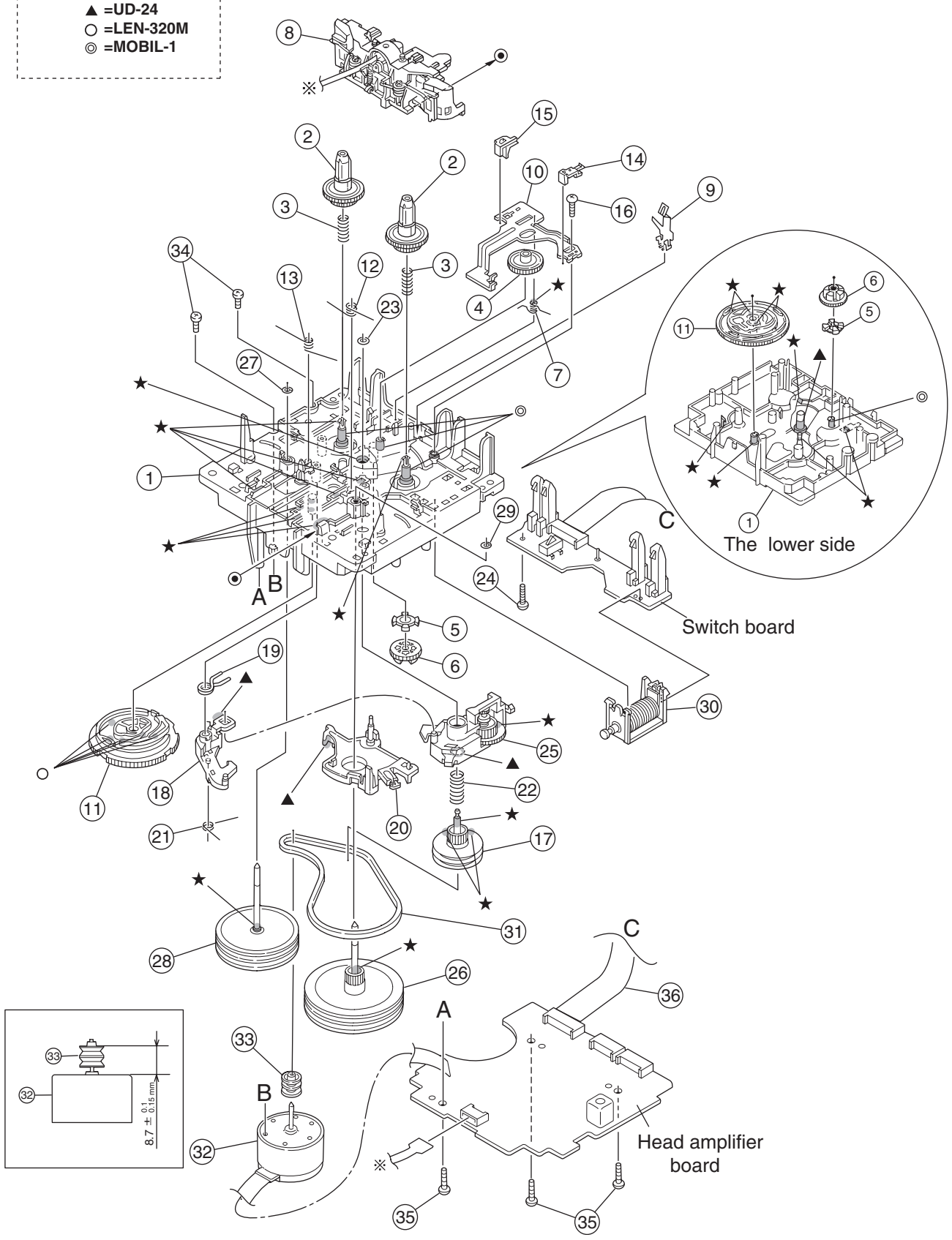
# Cassette mechanism assembly and parts list

Block No. M P M M

SLC-S302M

**Grease**

★ =EM-30L
▲ =UD-24
○ =LEN-320M
◎ =MOBIL-1



# Cassette mechanism

Block No. [M][P][M][M]

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| 1 | VKS1165-00N | CHASSIS B. ASSY | | |
| 2 | VKS2274-002 | REEL GEAR | (x2) | |
| 3 | VKW5286-002 | B.T. SPRING | (x2) | |
| 4 | VKS5559-001 | PLAY IDLE GEAR | | |
| 5 | VKS5595-002 | BLIND | | |
| 6 | VKS5560-003 | FR IDLE GEAR | | |
| 7 | LV42013-001A | EARTH SPRING | | |
| 8 | SLC-RP4SVM | HEAD MOUNT ASSY | | |
| 9 | VKY3149-002 | CASSETTE SP. | | |
| 10 | LV31786-002A | PLAY LEVER | | |
| 11 | VKS1166-003 | CONTROL CAM | | |
| 12 | VKW5279-002 | HEAD BASE SP(R) | | |
| 13 | VKW5280-001 | HEAD BASE SP(L) | | |
| 14 | LV41584-001A | BRAKE(R) | | |
| 15 | LV41585-003A | BRAKE(L) | | |
| 16 | QYSBSF2005Z | SCREW | 2mm x 5mm | |
| 17 | VKS5603-00G | MAIN PULLEY ASS | | |
| 18 | VKS3785-001MM | FR ARM | | |
| 19 | VKW5284-002 | SWING SPRING | | |
| 20 | VKS2278-003 | TRIGGER ARM | | |
| 21 | VKW5301-001 | FR SPRING | | |
| 22 | VKW5266-001 | ELEVATOR SPRING | | |
| 23 | WDL214025 | WASHER | | |
| 24 | QYSBSF2005Z | SCREW | 2mm x 5mm | |
| 25 | VKS3786-00G | CLUTCH ASSY | | |
| 26 | VKF3205-00B | F.WHEEL ASSY(R) | | |
| 27 | WDL183425 | SLIT WASHER | | |
| 28 | VKF3207-00C | F.WHEEL ASSY(L) | | |
| 29 | WDL173525-6 | SLIT WASHER | | |
| 30 | VKZ3174-00B | DC SOLENOID | | |
| 31 | LV42836-001A | CAPSTAN BELT | | |
| 32 | MSI-5U2LWA | D.C.MOTOR | | |
| 33 | VKR4761-003 | MOTOR PULLEY | | |
| 34 | QYSPSP2604Z | SCREW | 2.6mm x 4mm(x2) | |
| 35 | QYSBSF2608Z | TAPPING SCREW | 2.6mm x 8mm(x3) | |
| 36 | QUQH12-0906BF | WIRE | | |

# Electrical parts list

## Main board

Block No. [0][1][0][0]

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| IC270 | BA3837 | IC | | |
| IC611 | HA17558A | IC | | |
| IC612 | BU9253AS | IC | | |
| IC901 | LC75345M-X | IC | | |
| IC931 | MN101C57CEY | MASK ROM | | |
| IC932 | KIA7806API | IC | | |
| Q2209 | 2SC3576-JVC-T | TRANSISTOR | | |
| Q2210 | 2SC3576-JVC-T | TRANSISTOR | | |
| Q2211 | 2SC2001/LK/-T | TRANSISTOR | | |
| Q2219 | 2SC3576-JVC-T | TRANSISTOR | | |
| Q2220 | 2SC3576-JVC-T | TRANSISTOR | | |
| Q2221 | KRA102M-T | DIGI TRANSISTOR | | |
| Q2222 | KRC104M-T | TRANSISTOR | | |
| Q2780 | KRC111M-T | TRANSISTOR | | |
| Q2781 | KRC111M-T | TRANSISTOR | | |
| Q2800 | KTC3199/GL/-T | TRANSISTOR | | |
| Q2920 | KTA1046/Y/ | TRANSISTOR | | |
| Q2921 | KTC3199/GL/-T | TRANSISTOR | | |
| Q2922 | KTC3199/GL/-T | TRANSISTOR | | |
| Q2923 | KRC102M-T | DIGI TRANSISTOR | | |
| Q3500 | KTA1267/YG/-T | TRANSISTOR | | |
| Q3501 | KRC104M-T | TRANSISTOR | | |
| Q6001 | 2SC3576-JVC-T | TRANSISTOR | | |
| Q6002 | 2SC3576-JVC-T | TRANSISTOR | | |
| Q6003 | KRC104M-T | TRANSISTOR | | |
| Q7001 | KTA1267/YG/-T | TRANSISTOR | | |
| Q7002 | KRC111M-T | TRANSISTOR | | |
| Q7003 | KTC3199/GL/-T | TRANSISTOR | | |
| Q7031 | KTC3199/GL/-T | TRANSISTOR | | |
| Q7041 | KTC3199/GL/-T | TRANSISTOR | | |
| Q7061 | KRC111M-T | TRANSISTOR | | |
| Q7062 | KRC111M-T | TRANSISTOR | | |
| Q7063 | KRA111M-T | DIGI TRANSISTOR | | |
| Q7064 | KRC111M-T | TRANSISTOR | | |
| Q7080 | 2SA952/LK/-T | TRANSISTOR | | |
| Q7081 | KRC102M-T | DIGI TRANSISTOR | | |
| Q7091 | KRC111M-T | TRANSISTOR | | |
| Q7092 | KTA1267/YG/-T | TRANSISTOR | | |
| D2200 | 1SS119-041-T2 | DIODE | | |
| D2201 | 1SS119-041-T2 | DIODE | | |
| D2204 | 1N4003S-T5 | SI DIODE | | |
| D2205 | 1SS119-041-T2 | DIODE | | |
| D2206 | 1SS119-041-T2 | DIODE | | |
| D2207 | 1SS119-041-T2 | DIODE | | |
| D2780 | MTZJ5.1B-T2 | Z DIODE | | |
| ⚠ D2800 | MTZJ24C-T2 | Z DIODE | | |
| D2804 | 1SS119-041-T2 | DIODE | | |
| D2805 | 1SS119-041-T2 | DIODE | | |
| D2900 | MTZJ6.8C-T2 | Z DIODE | | |
| D2920 | 1SS119-041-T2 | DIODE | | |
| D2921 | MTZJ5.6C-T2 | Z DIODE | | |
| D2923 | 11EQS03LN-T2 | FR DIODE | | |
| D2924 | MTZJ6.8B-T2 | Z DIODE | | |
| D6001 | 1SS119-041-T2 | DIODE | | |
| D6002 | 1SS119-041-T2 | DIODE | | |
| D6003 | MTZJ5.1B-T2 | Z DIODE | | |
| D7001 | MTZJ5.1B-T2 | Z DIODE | | |
| D7002 | 1SS119-041-T2 | DIODE | | |
| D7003 | 1SS119-041-T2 | DIODE | | |
| D7004 | 1SS119-041-T2 | DIODE | | |
| D7005 | 1SS119-041-T2 | DIODE | | |
| D7006 | 1SS119-041-T2 | DIODE | | |
| D7007 | 1SS119-041-T2 | DIODE | | |
| D7008 | 1N4003S-T5 | SI DIODE | | |
| D7011 | MTZJ6.2C-T2 | Z DIODE | | |
| D7012 | 1SS119-041-T2 | DIODE | | |
| D7062 | 1SS119-041-T2 | DIODE | | |
| D7080 | 1SS119-041-T2 | DIODE | | |
| C2000 | QCBB1HK-221Y | C CAPACITOR | 220pF 50V K | |

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| C2005 | QETC1HM-475Z | E CAPACITOR | 4.7uF 50V M | |
| C2006 | QETC1HM-475Z | E CAPACITOR | 4.7uF 50V M | |
| C2007 | QTE1H28-106Z | E CAPACITOR | 10uF 50V | |
| C2008 | QETC1HM-475Z | E CAPACITOR | 4.7uF 50V M | |
| C2009 | QTE1H28-106Z | E CAPACITOR | 10uF 50V | |
| C2010 | QTE1V06-106Z | E CAPACITOR | 10uF 35V | |
| C2011 | QFLC1HJ-272Z | M CAPACITOR | 2700pF 50V J | |
| C2012 | QFLC1HJ-104Z | M CAPACITOR | 0.1uF 50V J | |
| C2013 | QFLC1HJ-104Z | M CAPACITOR | 0.1uF 50V J | |
| C2014 | QFVJ1HJ-184Z | MF CAPACITOR | 0.18uF 50V J | |
| C2015 | QFVJ1HJ-184Z | MF CAPACITOR | 0.18uF 50V J | |
| C2016 | QFVJ1HJ-104Z | MF CAPACITOR | 0.1uF 50V J | |
| C2017 | QTE1H28-106Z | E CAPACITOR | 10uF 50V | |
| C2018 | QFVJ1HJ-104Z | MF CAPACITOR | 0.1uF 50V J | |
| C2019 | QFVJ1HJ-104Z | MF CAPACITOR | 0.1uF 50V J | |
| C2026 | QFLC1HJ-183Z | M CAPACITOR | 0.018uF 50V J | |
| C2050 | QDXB1CM-222Y | C CAPACITOR | 2200pF 16V M | |
| C2100 | QCBB1HK-221Y | C CAPACITOR | 220pF 50V K | |
| C2105 | QETC1HM-475Z | E CAPACITOR | 4.7uF 50V M | |
| C2106 | QETC1HM-475Z | E CAPACITOR | 4.7uF 50V M | |
| C2107 | QTE1H28-106Z | E CAPACITOR | 10uF 50V | |
| C2108 | QETC1HM-475Z | E CAPACITOR | 4.7uF 50V M | |
| C2109 | QTE1H28-106Z | E CAPACITOR | 10uF 50V | |
| C2110 | QTE1V06-106Z | E CAPACITOR | 10uF 35V | |
| C2111 | QFLC1HJ-272Z | M CAPACITOR | 2700pF 50V J | |
| C2112 | QFLC1HJ-104Z | M CAPACITOR | 0.1uF 50V J | |
| C2113 | QFLC1HJ-104Z | M CAPACITOR | 0.1uF 50V J | |
| C2114 | QFVJ1HJ-184Z | MF CAPACITOR | 0.18uF 50V J | |
| C2115 | QFVJ1HJ-184Z | MF CAPACITOR | 0.18uF 50V J | |
| C2116 | QFVJ1HJ-104Z | MF CAPACITOR | 0.1uF 50V J | |
| C2117 | QTE1H28-106Z | E CAPACITOR | 10uF 50V | |
| C2118 | QFVJ1HJ-104Z | MF CAPACITOR | 0.1uF 50V J | |
| C2119 | QFVJ1HJ-104Z | MF CAPACITOR | 0.1uF 50V J | |
| C2126 | QFLC1HJ-183Z | M CAPACITOR | 0.018uF 50V J | |
| C2150 | QDXB1CM-222Y | C CAPACITOR | 2200pF 16V M | |
| C2200 | QETM1VM-338 | E CAPACITOR | 3300uF 35V M | |
| C2201 | QDYB1CM-103Y | C CAPACITOR | 0.01uF 16V M | |
| C2207 | QETN1CM-106Z | E CAPACITOR | 10uF 16V M | |
| C2208 | QETN1HM-105Z | E CAPACITOR | 1uF 50V M | |
| C2209 | QFVJ1HJ-184Z | MF CAPACITOR | 0.18uF 50V J | |
| C2210 | QETN1HM-105Z | E CAPACITOR | 1uF 50V M | |
| C2211 | QETN1AM-107Z | E CAPACITOR | 100uF 10V M | |
| C2212 | QFLM1HJ-104Z | M CAPACITOR | 0.1uF 50V J | |
| C2214 | QETN1AM-477Z | E CAPACITOR | 470uF 10V M | |
| C2222 | QETN1CM-107Z | E CAPACITOR | 100uF 16V M | |
| C2223 | QFLC1HJ-104Z | M CAPACITOR | 0.1uF 50V J | |
| C2224 | QETN1CM-226Z | E CAPACITOR | 22uF 16V M | |
| C2228 | QETN1HM-475Z | E CAPACITOR | 4.7uF 50V M | |
| C2250 | QETC0JM-477Z | E CAPACITOR | 470uF 6.3V M | |
| C2500 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M | |
| C2502 | QDGB1HK-103Y | C CAPACITOR | 0.01uF 50V K | |
| C2503 | QDGB1HK-102Y | C CAPACITOR | 1000pF 50V K | |
| C2504 | QDGB1HK-102Y | C CAPACITOR | 1000pF 50V K | |
| C2505 | QDGB1HK-102Y | C CAPACITOR | 1000pF 50V K | |
| C2508 | QDGB1HK-102Y | C CAPACITOR | 1000pF 50V K | |
| C2509 | QDGB1HK-102Y | C CAPACITOR | 1000pF 50V K | |
| C2510 | QDGB1HK-102Y | C CAPACITOR | 1000pF 50V K | |
| C2511 | QDGB1HK-102Y | C CAPACITOR | 1000pF 50V K | |
| C2700 | QTE1H28-106Z | E CAPACITOR | 10uF 50V | |
| C2721 | QTE1H28-106Z | E CAPACITOR | 10uF 50V | |
| C2750 | QTE1H28-106Z | E CAPACITOR | 10uF 50V | |
| C2751 | QTE1H28-106Z | E CAPACITOR | 10uF 50V | |
| C2780 | QETN1HM-225Z | E CAPACITOR | 2.2uF 50V M | |
| C2781 | QETN1HM-475Z | E CAPACITOR | 4.7uF 50V M | |
| C2782 | QETN1CM-226Z | E CAPACITOR | 22uF 16V M | |
| C2783 | QETN1HM-225Z | E CAPACITOR | 2.2uF 50V M | |
| C2784 | QDXB1CM-682Y | C CAPACITOR | 6800pF 16V M | |
| C2785 | QETN1HM-105Z | E CAPACITOR | 1uF 50V M | |
| C2786 | QFVJ1HJ-334Z | MF CAPACITOR | 0.33uF 50V J | |
| C2787 | QFLC1HJ-683Z | M CAPACITOR | 0.068uF 50V J | |
| C2820 | QCBB1HK-222Y | C CAPACITOR | 2200pF 50V K | |
| C2821 | QCBB1HK-222Y | C CAPACITOR | 2200pF 50V K | |
| C2822 | QCBB1HK-473Y | C CAPACITOR | 0.047uF 50V K | |
| C2823 | QCBB1HK-473Y | C CAPACITOR | 0.047uF 50V K | |

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| C2824 | QCBB1HK-473Y | C CAPACITOR | 0.047uF 50V K | |
| C2825 | QCBB1HK-473Y | C CAPACITOR | 0.047uF 50V K | |
| C2900 | QCSB1HJ-470Y | C CAPACITOR | 47pF 50V J | |
| C2901 | QETC1AM-477Z | E CAPACITOR | 470uF 10V M | |
| C2920 | QETN1HM-476Z | E CAPACITOR | 47uF 50V M | |
| C2921 | QETN1CM-107Z | E CAPACITOR | 100uF 16V M | |
| C2922 | QCBB1HK-151Y | C CAPACITOR | 150pF 50V K | |
| C2923 | QCFB1HZ-104Y | C CAPACITOR | 0.1uF 50V Z | |
| C3500 | QETN1EM-476Z | E CAPACITOR | 47uF 25V M | |
| C3501 | QETN1CM-106Z | E CAPACITOR | 10uF 16V M | |
| C6001 | EEKC1CM-106ZJC | E CAPACITOR | | |
| C6002 | EEKC1HM-105ZJC | E CAPACITOR | | |
| C6003 | QEKC1HM-104Z | E CAPACITOR | 0.1uF 50V M | |
| C6004 | EEKC1HM-105ZJC | E CAPACITOR | | |
| C6005 | QCSB1HJ-390Y | C CAPACITOR | 39pF 50V J | |
| C6006 | EEKC1CM-226ZJC | E CAPACITOR | | |
| C6007 | EEKC1CM-226ZJC | E CAPACITOR | | |
| C6008 | EEKC1CM-226ZJC | E CAPACITOR | | |
| C6009 | QCBB1HK-101Y | C CAPACITOR | 100pF 50V K | |
| C6010 | QFVJ1HJ-104Z | MF CAPACITOR | 0.1uF 50V J | |
| C6011 | EEKC1AM-107ZJC | E CAPACITOR | | |
| C6012 | QCBB1HK-101Y | C CAPACITOR | 100pF 50V K | |
| C6013 | QCBB1HK-333Y | C CAPACITOR | 0.033uF 50V K | |
| C6014 | QDXB1CM-472Y | C CAPACITOR | 4700pF 16V M | |
| C6015 | QFLC1HJ-103Z | M CAPACITOR | 0.01uF 50V J | |
| C6016 | EEKC1HM-475ZJC | E CAPACITOR | | |
| C6017 | EEKC1HM-225ZJC | E CAPACITOR | | |
| C6018 | EEKC1HM-226ZJC | C CAPACITOR | | |
| C6019 | QCBB1HK-333Y | C CAPACITOR | 0.033uF 50V K | |
| C6020 | QDXB1CM-332Y | C CAPACITOR | 3300pF 16V M | |
| C6021 | QFVJ1HJ-474Z | MF CAPACITOR | 0.47uF 50V J | |
| C6022 | QDYB1CM-103Y | C CAPACITOR | 0.01uF 16V M | |
| C6023 | EEKC1HM-225ZJC | E CAPACITOR | | |
| C6024 | EEKC1HM-225ZJC | E CAPACITOR | | |
| C6025 | QDGB1HK-102Y | C CAPACITOR | 1000pF 50V K | |
| C7001 | QCSB1HJ-180Y | C CAPACITOR | 18pF 50V J | |
| C7002 | QCSB1HJ-180Y | C CAPACITOR | 18pF 50V J | |
| C7003 | QDGB1HK-102Y | C CAPACITOR | 1000pF 50V K | |
| C7004 | QETN1AM-107Z | E CAPACITOR | 100uF 10V M | |
| C7005 | QDYB1CM-103Y | C CAPACITOR | 0.01uF 16V M | |
| C7008 | QETN0JM-228Z | E CAPACITOR | 2200uF 6.3V M | |
| C7009 | QETN1HM-225Z | E CAPACITOR | 2.2uF 50V M | |
| C7010 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M | |
| C7011 | QETN1CM-107Z | E CAPACITOR | 100uF 16V M | |
| C7012 | QCFB1HZ-104Y | C CAPACITOR | 0.1uF 50V Z | |
| C7041 | QDYB1CM-103Y | C CAPACITOR | 0.01uF 16V M | |
| C7061 | QCBB1HK-151Y | C CAPACITOR | 150pF 50V K | |
| C7080 | QETN0JM-108Z | E CAPACITOR | 1000uF 6.3V M | |
| C7101 | QCFB1HZ-104Y | C CAPACITOR | 0.1uF 50V Z | |
| C7102 | QCFB1HZ-104Y | C CAPACITOR | 0.1uF 50V Z | |
| C7103 | QCFB1HZ-104Y | C CAPACITOR | 0.1uF 50V Z | |
| C7118 | QDYB1CM-103Y | C CAPACITOR | 0.01uF 16V M | |
| C7121 | QCBB1HK-101Y | C CAPACITOR | 100pF 50V K | |
| C7122 | QCBB1HK-101Y | C CAPACITOR | 100pF 50V K | |
| C7123 | QCBB1HK-151Y | C CAPACITOR | 150pF 50V K | |
| C7138 | QDYB1CM-103Y | C CAPACITOR | 0.01uF 16V M | |
| C7144 | QDGB1HK-102Y | C CAPACITOR | 1000pF 50V K | |
| C7146 | QDGB1HK-102Y | C CAPACITOR | 1000pF 50V K | |
| R2000 | QRE141J-303Y | C RESISTOR | 30kΩ 1/4W J | |
| R2001 | QRE141J-303Y | C RESISTOR | 30kΩ 1/4W J | |
| R2006 | QRE141J-222Y | C RESISTOR | 2.2kΩ 1/4W J | |
| R2007 | QRE141J-622Y | C RESISTOR | 6.2kΩ 1/4W J | |
| R2008 | QRE141J-912Y | C RESISTOR | 9.1kΩ 1/4W J | |
| R2010 | QRE141J-752Y | C RESISTOR | 7.5kΩ 1/4W J | |
| R2011 | QRE141J-752Y | C RESISTOR | 7.5kΩ 1/4W J | |
| R2012 | QRE141J-222Y | C RESISTOR | 2.2kΩ 1/4W J | |
| R2013 | QRE141J-272Y | C RESISTOR | 2.7kΩ 1/4W J | |
| R2014 | QRE141J-303Y | C RESISTOR | 30kΩ 1/4W J | |
| R2015 | QRE141J-473Y | C RESISTOR | 47kΩ 1/4W J | |
| R2016 | QRE141J-622Y | C RESISTOR | 6.2kΩ 1/4W J | |
| R2017 | QRE141J-182Y | C RESISTOR | 1.8kΩ 1/4W J | |
| R2018 | QRE141J-103Y | C RESISTOR | 10kΩ 1/4W J | |
| R2019 | QRE141J-563Y | C RESISTOR | 56kΩ 1/4W J | |
| R2032 | QRJ146J-821X | UNF C RESISTOR | 820Ω 1/4W J | |
| R2038 | QRJ146J-821X | UNF C RESISTOR | 820Ω 1/4W J | |
| R2039 | QRE141J-222Y | C RESISTOR | 2.2kΩ 1/4W J | |
| R2040 | QRE141J-471Y | C RESISTOR | 470Ω 1/4W J | |
| R2041 | QRE141J-182Y | C RESISTOR | 1.8kΩ 1/4W J | |
| R2047 | QRE141J-154Y | C RESISTOR | 150kΩ 1/4W J | |
| R2050 | QRE141J-102Y | C RESISTOR | 1kΩ 1/4W J | |
| R2100 | QRE141J-303Y | C RESISTOR | 30kΩ 1/4W J | |
| R2101 | QRE141J-303Y | C RESISTOR | 30kΩ 1/4W J | |
| R2106 | QRE141J-222Y | C RESISTOR | 2.2kΩ 1/4W J | |
| R2107 | QRE141J-622Y | C RESISTOR | 6.2kΩ 1/4W J | |
| R2108 | QRE141J-912Y | C RESISTOR | 9.1kΩ 1/4W J | |
| R2110 | QRE141J-752Y | C RESISTOR | 7.5kΩ 1/4W J | |
| R2111 | QRE141J-752Y | C RESISTOR | 7.5kΩ 1/4W J | |
| R2112 | QRE141J-222Y | C RESISTOR | 2.2kΩ 1/4W J | |
| R2113 | QRE141J-272Y | C RESISTOR | 2.7kΩ 1/4W J | |
| R2114 | QRE141J-303Y | C RESISTOR | 30kΩ 1/4W J | |
| R2115 | QRE141J-473Y | C RESISTOR | 47kΩ 1/4W J | |
| R2116 | QRE141J-622Y | C RESISTOR | 6.2kΩ 1/4W J | |
| R2117 | QRE141J-182Y | C RESISTOR | 1.8kΩ 1/4W J | |
| R2118 | QRE141J-103Y | C RESISTOR | 10kΩ 1/4W J | |
| R2119 | QRE141J-563Y | C RESISTOR | 56kΩ 1/4W J | |
| R2132 | QRJ146J-821X | UNF C RESISTOR | 820Ω 1/4W J | |
| R2138 | QRJ146J-821X | UNF C RESISTOR | 820Ω 1/4W J | |
| R2139 | QRE141J-222Y | C RESISTOR | 2.2kΩ 1/4W J | |
| R2140 | QRE141J-471Y | C RESISTOR | 470Ω 1/4W J | |
| R2141 | QRE141J-182Y | C RESISTOR | 1.8kΩ 1/4W J | |
| R2147 | QRE141J-154Y | C RESISTOR | 150kΩ 1/4W J | |
| R2150 | QRE141J-102Y | C RESISTOR | 1kΩ 1/4W J | |
| R2200 | QRE141J-273Y | C RESISTOR | 27kΩ 1/4W J | |
| R2207 | QRE141J-513Y | C RESISTOR | 51kΩ 1/4W J | |
| R2208 | QRE141J-124Y | C RESISTOR | 120kΩ 1/4W J | |
| R2209 | QRE141J-334Y | C RESISTOR | 330kΩ 1/4W J | |
| R2210 | QRE141J-302Y | C RESISTOR | 3kΩ 1/4W J | |
| R2211 | QRE141J-471Y | C RESISTOR | 470Ω 1/4W J | |
| R2216 | QRE141J-103Y | C RESISTOR | 10kΩ 1/4W J | |
| R2221 | QRE141J-101Y | C RESISTOR | 100Ω 1/4W J | |
| R2222 | QRE141J-222Y | C RESISTOR | 2.2kΩ 1/4W J | |
| R2223 | QRE141J-222Y | C RESISTOR | 2.2kΩ 1/4W J | |
| R2250 | QRE141J-102Y | C RESISTOR | 1kΩ 1/4W J | |
| R2251 | QRE141J-102Y | C RESISTOR | 1kΩ 1/4W J | |
| R2700 | QRE141J-682Y | C RESISTOR | 6.8kΩ 1/4W J | |
| R2701 | QRE141J-752Y | C RESISTOR | 7.5kΩ 1/4W J | |
| R2722 | QRE141J-202Y | C RESISTOR | 2kΩ 1/4W J | |
| R2750 | QRE141J-682Y | C RESISTOR | 6.8kΩ 1/4W J | |
| R2751 | QRE141J-752Y | C RESISTOR | 7.5kΩ 1/4W J | |
| R2752 | QRE141J-202Y | C RESISTOR | 2kΩ 1/4W J | |
| R2781 | QRE141J-102Y | C RESISTOR | 1kΩ 1/4W J | |
| R2782 | QRE141J-221Y | C RESISTOR | 220Ω 1/4W J | |
| R2783 | QRE141J-101Y | C RESISTOR | 100Ω 1/4W J | |
| R2800 | QRE141J-152Y | C RESISTOR | 1.5kΩ 1/4W J | |
| R2801 | QRE141J-621Y | C RESISTOR | 620Ω 1/4W J | |
| R2802 | QRE141J-681Y | C RESISTOR | 680Ω 1/4W J | |
| R2803 | QRE141J-681Y | C RESISTOR | 680Ω 1/4W J | |
| R2804 | QRE141J-103Y | C RESISTOR | 10kΩ 1/4W J | |
| R2805 | QRE141J-103Y | C RESISTOR | 10kΩ 1/4W J | |
| ⚠ R2806 | QRJ146J-102X | UNF C RESISTOR | 1kΩ 1/4W J | |
| ⚠ R2807 | QRJ146J-102X | UNF C RESISTOR | 1kΩ 1/4W J | |
| R2820 | QRE141J-4R7Y | C RESISTOR | 4.7Ω 1/4W J | |
| R2821 | QRE141J-4R7Y | C RESISTOR | 4.7Ω 1/4W J | |
| R2900 | QRE141J-104Y | C RESISTOR | 100kΩ 1/4W J | |
| R2920 | QRE141J-222Y | C RESISTOR | 2.2kΩ 1/4W J | |
| R2921 | QRE141J-222Y | C RESISTOR | 2.2kΩ 1/4W J | |
| R2922 | QRE141J-222Y | C RESISTOR | 2.2kΩ 1/4W J | |
| R2923 | QRE141J-223Y | C RESISTOR | 22kΩ 1/4W J | |
| R2924 | QRJ146J-101X | UNF C RESISTOR | 100Ω 1/4W J | |
| R2925 | QRE141J-123Y | C RESISTOR | 12kΩ 1/4W J | |
| R2926 | QRE141J-222Y | C RESISTOR | 2.2kΩ 1/4W J | |
| R3500 | QRE141J-102Y | C RESISTOR | 1kΩ 1/4W J | |
| R3501 | QRE141J-103Y | C RESISTOR | 10kΩ 1/4W J | |
| R3502 | QRE141J-104Y | C RESISTOR | 100kΩ 1/4W J | |
| R6001 | QRE141J-474Y | C RESISTOR | 470kΩ 1/4W J | |
| R6002 | QRE141J-103Y | C RESISTOR | 10kΩ 1/4W J | |
| R6003 | QRE141J-103Y | C RESISTOR | 10kΩ 1/4W J | |
| R6004 | QRE141J-103Y | C RESISTOR | 10kΩ 1/4W J | |
| R6005 | QRE141J-102Y | C RESISTOR | 1kΩ 1/4W J | |
| R6006 | QRE141J-103Y | C RESISTOR | 10kΩ 1/4W J | |
| R6007 | QRE141J-471Y | C RESISTOR | 470Ω 1/4W J | |
| R6008 | QRE141J-102Y | C RESISTOR | 1kΩ 1/4W J | |
| R6010 | QRE141J-564Y | C RESISTOR | 560kΩ 1/4W J | |
| R6011 | QRE141J-392Y | C RESISTOR | 3.9kΩ 1/4W J | |
| R6012 | QRE141J-103Y | C RESISTOR | 10kΩ 1/4W J | |

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| R6013 | QRE141J-102Y | C RESISTOR | 1kΩ 1/4W J | |
| R6014 | QRE141J-154Y | C RESISTOR | 150kΩ 1/4W J | |
| R6015 | QRE141J-154Y | C RESISTOR | 150kΩ 1/4W J | |
| R6016 | QRE141J-221Y | C RESISTOR | 220Ω 1/4W J | |
| R6017 | QRE141J-153Y | C RESISTOR | 15kΩ 1/4W J | |
| R6018 | QRE141J-103Y | C RESISTOR | 10kΩ 1/4W J | |
| R6019 | QRE141J-221Y | C RESISTOR | 220Ω 1/4W J | |
| R6020 | QRE141J-152Y | C RESISTOR | 1.5kΩ 1/4W J | |
| R6021 | QRE141J-203Y | C RESISTOR | 20kΩ 1/4W J | |
| R6022 | QRE141J-203Y | C RESISTOR | 20kΩ 1/4W J | |
| R6023 | QRE141J-103Y | C RESISTOR | 10kΩ 1/4W J | |
| R6024 | QRE141J-822Y | C RESISTOR | 8.2kΩ 1/4W J | |
| R6025 | QRE141J-333Y | C RESISTOR | 33kΩ 1/4W J | |
| R6026 | QRE141J-333Y | C RESISTOR | 33kΩ 1/4W J | |
| R6027 | QRE141J-204Y | C RESISTOR | 200kΩ 1/4W J | |
| R6028 | QRE141J-123Y | C RESISTOR | 12kΩ 1/4W J | |
| R6029 | QRE141J-103Y | C RESISTOR | 10kΩ 1/4W J | |
| R6030 | QRE141J-472Y | C RESISTOR | 4.7kΩ 1/4W J | |
| R6031 | QRE141J-153Y | C RESISTOR | 15kΩ 1/4W J | |
| R6032 | QRE141J-752Y | C RESISTOR | 7.5kΩ 1/4W J | |
| R6033 | QRE141J-512Y | C RESISTOR | 5.1kΩ 1/4W J | |
| R6034 | QRE141J-102Y | C RESISTOR | 1kΩ 1/4W J | |
| R7001 | QRE141J-105Y | C RESISTOR | 1MΩ 1/4W J | |
| R7002 | QRE141J-103Y | C RESISTOR | 10kΩ 1/4W J | |
| R7003 | QRE141J-331Y | C RESISTOR | 330Ω 1/4W J | |
| R7004 | QRE141J-103Y | C RESISTOR | 10kΩ 1/4W J | |
| R7005 | QRE141J-103Y | C RESISTOR | 10kΩ 1/4W J | |
| R7006 | QRE141J-104Y | C RESISTOR | 100kΩ 1/4W J | |
| R7007 | QRE141J-473Y | C RESISTOR | 47kΩ 1/4W J | |
| R7008 | QRE141J-333Y | C RESISTOR | 33kΩ 1/4W J | |
| R7031 | QRE141J-123Y | C RESISTOR | 12kΩ 1/4W J | |
| R7041 | QRE141J-823Y | C RESISTOR | 82kΩ 1/4W J | |
| R7042 | QRE141J-394Y | C RESISTOR | 390kΩ 1/4W J | |
| R7043 | QRE141J-104Y | C RESISTOR | 100kΩ 1/4W J | |
| R7062 | QRE141J-102Y | C RESISTOR | 1kΩ 1/4W J | |
| R7063 | QRE141J-470Y | C RESISTOR | 47Ω 1/4W J | |
| R7064 | QRE141J-103Y | C RESISTOR | 10kΩ 1/4W J | |
| R7080 | QRE141J-103Y | C RESISTOR | 10kΩ 1/4W J | |
| R7081 | QRE141J-511Y | C RESISTOR | 510Ω 1/4W J | |
| R7091 | QRE141J-103Y | C RESISTOR | 10kΩ 1/4W J | |
| R7092 | QRE141J-473Y | C RESISTOR | 47kΩ 1/4W J | |
| R7093 | QRE141J-102Y | C RESISTOR | 1kΩ 1/4W J | |
| R7102 | QRE141J-333Y | C RESISTOR | 33kΩ 1/4W J | |
| R7103 | QRE141J-333Y | C RESISTOR | 33kΩ 1/4W J | |
| R7104 | QRE141J-333Y | C RESISTOR | 33kΩ 1/4W J | |
| R7107 | QRE141J-102Y | C RESISTOR | 1kΩ 1/4W J | |
| R7108 | QRE141J-103Y | C RESISTOR | 10kΩ 1/4W J | |
| R7118 | QRE141J-102Y | C RESISTOR | 1kΩ 1/4W J | |
| R7120 | QRE141J-102Y | C RESISTOR | 1kΩ 1/4W J | |
| R7121 | QRE141J-102Y | C RESISTOR | 1kΩ 1/4W J | |
| R7122 | QRE141J-102Y | C RESISTOR | 1kΩ 1/4W J | |
| R7123 | QRE141J-102Y | C RESISTOR | 1kΩ 1/4W J | |
| R7125 | QRE141J-222Y | C RESISTOR | 2.2kΩ 1/4W J | |
| R7126 | QRE141J-222Y | C RESISTOR | 2.2kΩ 1/4W J | |
| R7127 | QRE141J-222Y | C RESISTOR | 2.2kΩ 1/4W J | |
| R7128 | QRE141J-222Y | C RESISTOR | 2.2kΩ 1/4W J | |
| R7129 | QRE141J-102Y | C RESISTOR | 1kΩ 1/4W J | |
| R7130 | QRE141J-102Y | C RESISTOR | 1kΩ 1/4W J | |
| R7131 | QRE141J-102Y | C RESISTOR | 1kΩ 1/4W J | |
| R7132 | QRE141J-102Y | C RESISTOR | 1kΩ 1/4W J | |
| R7133 | QRE141J-222Y | C RESISTOR | 2.2kΩ 1/4W J | |
| R7136 | QRE141J-222Y | C RESISTOR | 2.2kΩ 1/4W J | |
| R7137 | QRE141J-222Y | C RESISTOR | 2.2kΩ 1/4W J | |
| R7138 | QRE141J-222Y | C RESISTOR | 2.2kΩ 1/4W J | |
| R7141 | QRE141J-223Y | C RESISTOR | 22kΩ 1/4W J | |
| R7142 | QRE141J-222Y | C RESISTOR | 2.2kΩ 1/4W J | |
| R7143 | QRE141J-222Y | C RESISTOR | 2.2kΩ 1/4W J | |
| R7144 | QRE141J-222Y | C RESISTOR | 2.2kΩ 1/4W J | |
| R7145 | QRE141J-222Y | C RESISTOR | 2.2kΩ 1/4W J | |
| R7146 | QRE141J-222Y | C RESISTOR | 2.2kΩ 1/4W J | |
| R7148 | QRE141J-102Y | C RESISTOR | 1kΩ 1/4W J | |
| R7150 | QRE141J-222Y | C RESISTOR | 2.2kΩ 1/4W J | |
| R7151 | QRE141J-222Y | C RESISTOR | 2.2kΩ 1/4W J | |
| R7152 | QRE141J-222Y | C RESISTOR | 2.2kΩ 1/4W J | |
| R7153 | QRE141J-222Y | C RESISTOR | 2.2kΩ 1/4W J | |
| R7154 | QRE141J-222Y | C RESISTOR | 2.2kΩ 1/4W J | |
| R7155 | QRE141J-222Y | C RESISTOR | 2.2kΩ 1/4W J | |
| R7162 | QRE141J-222Y | C RESISTOR | 2.2kΩ 1/4W J | |
| R7173 | QRE141J-222Y | C RESISTOR | 2.2kΩ 1/4W J | |
| R7174 | QRE141J-222Y | C RESISTOR | 2.2kΩ 1/4W J | |
| R7222 | QRE141J-473Y | C RESISTOR | 47kΩ 1/4W J | |
| R7223 | QRE141J-473Y | C RESISTOR | 47kΩ 1/4W J | |
| R7236 | QRE141J-103Y | C RESISTOR | 10kΩ 1/4W J | |
| R7242 | QRE141J-104Y | C RESISTOR | 100kΩ 1/4W J | |
| R7243 | QRE141J-104Y | C RESISTOR | 100kΩ 1/4W J | |
| R7244 | QRE141J-103Y | C RESISTOR | 10kΩ 1/4W J | |
| R7245 | QRE141J-563Y | C RESISTOR | 56kΩ 1/4W J | |
| R7250 | QRE141J-823Y | C RESISTOR | 82kΩ 1/4W J | |
| R7252 | QRE141J-103Y | C RESISTOR | 10kΩ 1/4W J | |
| R7253 | QRE141J-103Y | C RESISTOR | 10kΩ 1/4W J | |
| R7254 | QRE141J-103Y | C RESISTOR | 10kΩ 1/4W J | |
| R7255 | QRE141J-103Y | C RESISTOR | 10kΩ 1/4W J | |
| R7800 | QRE141J-103Y | C RESISTOR | 10kΩ 1/4W J | |
| R7802 | QRE141J-103Y | C RESISTOR | 10kΩ 1/4W J | |
| VR601 | QVQ0306-B24 | V RESISTOR | | |
| L2500 | QQL231K-820Y | COIL | 82uH K | |
| L2501 | QQL231K-820Y | COIL | 82uH K | |
| L2800 | QQR0797-002 | COIL | | |
| L2801 | QQR0797-002 | COIL | | |
| L2900 | QQR0797-001 | COIL | | |
| L2920 | QQL28AK-101 | CHOKE COIL | 100uH K | |
| L3500 | QQL231K-4R7Y | COIL | 4.7uH K | |
| L7001 | QQL231K-100Y | COIL | 10uH K | |
| L7002 | QQL231K-470Y | COIL | 47uH K | |
| L7003 | QQL231K-4R7Y | COIL | 4.7uH K | |
| L7080 | QQL231K-100Y | COIL | 10uH K | |
| CN270 | QGB2510K2-10 | CONNECTOR | B-B (1-10) | |
| CN900 | QGF1201C3-10 | CONNECTOR | FFC/FPC (1-10) | |
| CN901 | QGF1205C1-09 | CONNECTOR | FFC/FPC (1-9) | |
| CN902 | QGF1205F1-09 | CONNECTOR | FFC/FPC (1-9) | |
| CN903 | QGF1016F3-19 | CONNECTOR | FFC/FPC (1-19) | |
| CN904 | QGF1016F3-15 | CONNECTOR | FFC/FPC (1-15) | |
| CN905 | QGB2510J1-10 | CONNECTOR | B-B (1-10) | |
| CN906 | QGD2504C1-04Z | CONNECTOR | (1-4) | |
| CN907 | QGD2504C1-04Z | CONNECTOR | (1-4) | |
| CN908 | QGA2501C1-02 | CONNECTOR | W-B (1-2) | |
| CN911 | QGB2510J1-08 | CONNECTOR | B-B (1-8) | |
| CN912 | QGB2510J1-10 | CONNECTOR | B-B (1-10) | |
| CN916 | QGD2504C1-03Z | CONNECTOR | (1-3) | |
| CN917 | QGD2504C1-03Z | CONNECTOR | (1-3) | |
| CN930 | QGF1205C1-23 | CONNECTOR | FFC/FPC (1-23) | |
| CN931 | QGF1205C1-19 | CONNECTOR | FFC/FPC (1-19) | |
| CN932 | QGF1205C1-13 | CONNECTOR | FFC/FPC (1-13) | |
| EP601 | QNZ0136-001Z | EARTH PLATE | | |
| IH901 | VYH7653-003 | IC HOLDER | | |
| IH931 | VYH7653-001 | IC HOLDER | | |
| J900 | QNN0215-001 | PIN JACK | | |
| J901 | QNN0017-002 | PIN JACK | | |
| J6001 | QNS0170-001 | HEADPHONE JACK | | |
| JA940 | QNB0117-001 | SPK TERMINAL | | |
| K2200 | QQR0621-001Z | COIL | | |
| K2500 | QQR0621-001Z | COIL | | |
| K2501 | QQR0621-001Z | COIL | | |
| K2502 | QQR0621-001Z | COIL | | |
| K2503 | QQR0621-001Z | COIL | | |
| K2552 | QQR0621-001Z | COIL | | |
| K2920 | QQR0621-001Z | COIL | | |
| K2921 | QQR0621-001Z | COIL | | |
| K6001 | QQR0621-001Z | COIL | | |
| K6002 | QQR0621-001Z | COIL | | |
| K6003 | QQR0621-001Z | COIL | | |
| K7001 | QQR0621-001Z | COIL | | |
| K7002 | QQR0621-001Z | COIL | | |
| K7003 | QQR0621-001Z | COIL | | |
| ⚠ P2920 | ICP-N25-T | IC PROTECTOR | 1.0A | |
| PP3 | QZW0038-001 | WIRE CLAMP | | |
| RY901 | QSK0109-001 | RELAY | | |
| X7001 | QAX0711-002Z | CRYSTAL | 8.000000MHz | |

# Power board

Block No. [0][2][0][0]

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| IC750 | GP1UM261XK | IR DETECT UNIT | 38kHz | |
| ⚠ IC940 | STK432-070 | IC | | |
| ⚠ IC942 | KIA7810API | IC | | |
| Q1000 | KTC3199/GL/-T | TRANSISTOR | | |
| Q1001 | KTC1027/OY/-T | TRANSISTOR | | |
| Q1002 | KTC3199/GL/-T | TRANSISTOR | | |
| Q1003 | 2SD1266/P/ | TRANSISTOR | | |
| Q4000 | KTA1268/GL/-T | TRANSISTOR | | |
| Q4001 | KTA1268/GL/-T | TRANSISTOR | | |
| Q4300 | KTC3199/GL/-T | TRANSISTOR | | |
| Q4301 | KTA1267/YG/-T | TRANSISTOR | | |
| Q4302 | KTC3199/GL/-T | TRANSISTOR | | |
| Q4502 | 2SC3576-JVC-T | TRANSISTOR | | |
| Q4503 | 2SC3576-JVC-T | TRANSISTOR | | |
| Q4504 | KRA102M-T | DIGI TRANSISTOR | | |
| Q7500 | KRC111M-T | TRANSISTOR | | |
| ⚠ D1000 | 1N4003S-T5 | SI DIODE | | |
| ⚠ D1001 | 1N4003S-T5 | SI DIODE | | |
| ⚠ D1002 | 1N4003S-T5 | SI DIODE | | |
| ⚠ D1003 | 1N4003S-T5 | SI DIODE | | |
| ⚠ D1004 | 1N5401-TM | SI DIODE | | |
| ⚠ D1005 | 1N5401-TM | SI DIODE | | |
| ⚠ D1006 | 1N5401-TM | SI DIODE | | |
| ⚠ D1007 | 1N5401-TM | SI DIODE | | |
| D1008 | 1SS119-041-T2 | DIODE | | |
| D1009 | 1N4003S-T5 | SI DIODE | | |
| D1011 | MTZJ6.2C-T2 | Z DIODE | | |
| D1012 | 1SS119-041-T2 | DIODE | | |
| D1013 | MTZJ5.1B-T2 | Z DIODE | | |
| D1014 | MTZJ11C-T2 | Z DIODE | | |
| D4000 | 1SS119-041-T2 | DIODE | | |
| D4001 | 1SS119-041-T2 | DIODE | | |
| ⚠ D4002 | MTZJ9.1B-T2 | Z DIODE | | |
| ⚠ D4003 | MTZJ9.1B-T2 | Z DIODE | | |
| ⚠ D4200 | MTZJ11B-T2 | Z DIODE | | |
| D4202 | 1SS119-041-T2 | DIODE | | |
| D4300 | 1SS119-041-T2 | DIODE | | |
| D7303 | SELU1E54CM-S | LED | | |
| D7304 | SELU1E54CM-S | LED | | |
| D7305 | SELU1E54CM-S | LED | | |
| D7501 | 1SS119-041-T2 | DIODE | | |
| D7502 | SPR-39MVWF | LED | RED-GREEN | |
| D7503 | 1SS119-041-T2 | DIODE | | |
| D7600 | SELU1E54CM-S | LED | | |
| D7602 | SELU1E54CM-S | LED | | |
| D7604 | SELU1E54CM-S | LED | | |
| C1000 | QFLC1HJ-104Z | M CAPACITOR | 0.1uF 50V J | |
| C1001 | QFLC1HJ-104Z | M CAPACITOR | 0.1uF 50V J | |
| C1002 | QFLC1HJ-104Z | M CAPACITOR | 0.1uF 50V J | |
| C1003 | QFLC1HJ-104Z | M CAPACITOR | 0.1uF 50V J | |
| C1004 | QFLC2AJ-104Z | M CAPACITOR | 0.1uF 100V J | |
| C1005 | QFLC2AJ-104Z | M CAPACITOR | 0.1uF 100V J | |
| C1006 | QFLC2AJ-104Z | M CAPACITOR | 0.1uF 100V J | |
| C1007 | QFLC2AJ-104Z | M CAPACITOR | 0.1uF 100V J | |
| ⚠ C1008 | QCZ9105-472 | C CAPACITOR | 4700pF 250V M | |
| C1009 | QFLC1HJ-472Z | M CAPACITOR | 4700pF 50V J | |
| C1010 | EETC0JM-477ZJC | C CAPACITOR | | |
| C1011 | QETM1JM-477 | E CAPACITOR | 470uF 63V M | |
| C1012 | EETC1HM-106ZJC | E CAPACITOR | | |
| C1014 | QFLC1HJ-472Z | M CAPACITOR | 4700pF 50V J | |
| C4000 | QCBB1HK-101Y | C CAPACITOR | 100pF 50V K | |
| C4001 | QCBB1HK-101Y | C CAPACITOR | 100pF 50V K | |
| C4002 | QTE1V06-106Z | E CAPACITOR | 10uF 35V | |
| C4003 | QTE1V06-106Z | E CAPACITOR | 10uF 35V | |
| C4006 | QCBB1HK-101Y | C CAPACITOR | 100pF 50V K | |
| C4007 | QCBB1HK-101Y | C CAPACITOR | 100pF 50V K | |
| C4008 | QETC1HM-476Z | E CAPACITOR | 47uF 50V M | |
| C4009 | QETC1HM-476Z | E CAPACITOR | 47uF 50V M | |
| C4010 | QCSB1HJ-100Y | C CAPACITOR | 10pF 50V J | |
| C4011 | QCSB1HJ-100Y | C CAPACITOR | 10pF 50V J | |
| C4012 | QFLC1HJ-104Z | M CAPACITOR | 0.1uF 50V J | |

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| C4013 | QFLC1HJ-104Z | M CAPACITOR | 0.1uF 50V J | |
| C4014 | QFLC1HJ-104Z | M CAPACITOR | 0.1uF 50V J | |
| C4015 | QFLC1HJ-104Z | M CAPACITOR | 0.1uF 50V J | |
| C4016 | FQCF31HZ-223Z | D.CAPACITOR | | |
| C4017 | FQCF31HZ-223Z | D.CAPACITOR | | |
| C4030 | QETN1HM-476Z | E CAPACITOR | 47uF 50V M | |
| C4031 | QETC1HM-106Z | E CAPACITOR | 10uF 50V M | |
| C4032 | QETC1HM-106Z | E CAPACITOR | 10uF 50V M | |
| C4033 | QETN1HM-476Z | E CAPACITOR | 47uF 50V M | |
| C4035 | FQCF31HZ-223Z | D.CAPACITOR | | |
| C4036 | QFLC1HJ-223Z | M CAPACITOR | 0.022uF 50V J | |
| C4037 | QETM1HM-228 | E CAPACITOR | 2200uF 50V M | |
| C4038 | QETM1HM-228 | E CAPACITOR | 2200uF 50V M | |
| C4200 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M | |
| C4201 | QETN1CM-106Z | E CAPACITOR | 10uF 16V M | |
| C4301 | QETC1EM-226Z | E CAPACITOR | 22uF 25V M | |
| C4302 | QETC1CM-476Z | E CAPACITOR | 47uF 16V M | |
| C4303 | QETC1HM-226Z | E CAPACITOR | 22uF 50V M | |
| C4500 | QETC1EM-106Z | E CAPACITOR | 10uF 25V M | |
| C5010 | QDYB1CM-103Y | C CAPACITOR | 0.01uF 16V M | |
| C5011 | QDYB1CM-103Y | C CAPACITOR | 0.01uF 16V M | |
| C7501 | QEKC1CM-476Z | E CAPACITOR | 47uF 16V M | |
| C7502 | QDYB1CM-103Y | C CAPACITOR | 0.01uF 16V M | |
| C7503 | QDGB1HK-102Y | C CAPACITOR | 1000pF 50V K | |
| C7504 | QDYB1CM-103Y | C CAPACITOR | 0.01uF 16V M | |
| C7507 | QDYB1CM-103Y | C CAPACITOR | 0.01uF 16V M | |
| C7510 | QDYB1CM-103Y | C CAPACITOR | 0.01uF 16V M | |
| C7511 | QDYB1CM-103Y | C CAPACITOR | 0.01uF 16V M | |
| C7520 | QDYB1CM-103Y | C CAPACITOR | 0.01uF 16V M | |
| C7600 | QDYB1CM-103Y | C CAPACITOR | 0.01uF 16V M | |
| R1001 | QRE141J-332Y | C RESISTOR | 3.3kΩ 1/4W J | |
| R1002 | QRE141J-821Y | C RESISTOR | 820Ω 1/4W J | |
| R1003 | QRE141J-103Y | C RESISTOR | 10kΩ 1/4W J | |
| R1004 | QRE141J-472Y | C RESISTOR | 4.7kΩ 1/4W J | |
| R1005 | QRE141J-472Y | C RESISTOR | 4.7kΩ 1/4W J | |
| ⚠ R1010 | QRZ9042-2R2X | F RESISTOR | 2.2Ω | |
| R1011 | QRE141J-822Y | C RESISTOR | 8.2kΩ 1/4W J | |
| R1012 | QRE141J-103Y | C RESISTOR | 10kΩ 1/4W J | |
| R4000 | QRE141J-472Y | C RESISTOR | 4.7kΩ 1/4W J | |
| R4001 | QRE141J-472Y | C RESISTOR | 4.7kΩ 1/4W J | |
| R4002 | QRE141J-473Y | C RESISTOR | 47kΩ 1/4W J | |
| R4003 | QRE141J-473Y | C RESISTOR | 47kΩ 1/4W J | |
| R4004 | QRT01DJ-R22X | MF RESISTOR | 0.22Ω 1W J | |
| R4005 | QRT01DJ-R22X | MF RESISTOR | 0.22Ω 1W J | |
| R4006 | QRT01DJ-R22X | MF RESISTOR | 0.22Ω 1W J | |
| R4007 | QRT01DJ-R22X | MF RESISTOR | 0.22Ω 1W J | |
| ⚠ R4008 | QRJ146J-100X | UNF C RESISTOR | 10Ω 1/4W J | |
| ⚠ R4009 | QRJ146J-100X | UNF C RESISTOR | 10Ω 1/4W J | |
| R4010 | QRE141J-473Y | C RESISTOR | 47kΩ 1/4W J | |
| R4011 | QRE141J-473Y | C RESISTOR | 47kΩ 1/4W J | |
| R4012 | FQRJ143J-821X | UNF C RESISTOR | | |
| R4013 | FQRJ143J-821X | UNF C RESISTOR | | |
| R4014 | FQRJ143J-100X | UNF C RESISTOR | | |
| R4015 | FQRJ143J-100X | UNF C RESISTOR | | |
| R4016 | QRE141J-103Y | C RESISTOR | 10kΩ 1/4W J | |
| R4017 | QRE141J-103Y | C RESISTOR | 10kΩ 1/4W J | |
| R4018 | QRE141J-221Y | C RESISTOR | 220Ω 1/4W J | |
| R4019 | QRE141J-221Y | C RESISTOR | 220Ω 1/4W J | |
| R4020 | QRE141J-222Y | C RESISTOR | 2.2kΩ 1/4W J | |
| R4021 | QRE141J-222Y | C RESISTOR | 2.2kΩ 1/4W J | |
| R4022 | QRE141J-392Y | C RESISTOR | 3.9kΩ 1/4W J | |
| R4023 | QRE141J-392Y | C RESISTOR | 3.9kΩ 1/4W J | |
| R4030 | QRE141J-333Y | C RESISTOR | 33kΩ 1/4W J | |
| R4031 | QRJ146J-101X | UNF C RESISTOR | 100Ω 1/4W J | |
| R4032 | QRJ146J-101X | UNF C RESISTOR | 100Ω 1/4W J | |
| R4033 | QRJ146J-100X | UNF C RESISTOR | 10Ω 1/4W J | |
| ⚠ R4036 | QRZ9006-4R7X | FUSI RESISTOR | 4.7Ω 1/4W J | |
| R4201 | QRT01DJ-R33X | MF RESISTOR | 0.33Ω 1W J | |
| R4202 | QRE141J-103Y | C RESISTOR | 10kΩ 1/4W J | |
| R4203 | QRE141J-103Y | C RESISTOR | 10kΩ 1/4W J | |
| R4204 | QRT01DJ-R33X | MF RESISTOR | 0.33Ω 1W J | |
| R4300 | QRE141J-823Y | C RESISTOR | 82kΩ 1/4W J | |
| R4301 | QRE141J-104Y | C RESISTOR | 100kΩ 1/4W J | |
| R4302 | QRE141J-103Y | C RESISTOR | 10kΩ 1/4W J | |
| R4303 | QRE141J-104Y | C RESISTOR | 100kΩ 1/4W J | |
| R4304 | QRE141J-124Y | C RESISTOR | 120kΩ 1/4W J | |
| R4305 | QRE141J-122Y | C RESISTOR | 1.2kΩ 1/4W J | |

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| R4306 | QRE141J-103Y | C RESISTOR | 10kΩ 1/4W J | |
| R4307 | QRE141J-104Y | C RESISTOR | 100kΩ 1/4W J | |
| R4502 | QRE141J-222Y | C RESISTOR | 2.2kΩ 1/4W J | |
| R4503 | QRE141J-222Y | C RESISTOR | 2.2kΩ 1/4W J | |
| R7309 | QRE141J-161Y | C RESISTOR | 160Ω 1/4W J | |
| R7310 | QRE141J-161Y | C RESISTOR | 160Ω 1/4W J | |
| R7311 | QRE141J-161Y | C RESISTOR | 160Ω 1/4W J | |
| R7501 | QRE141J-161Y | C RESISTOR | 160Ω 1/4W J | |
| R7510 | QRE141J-102Y | C RESISTOR | 1kΩ 1/4W J | |
| R7511 | QRE141J-102Y | C RESISTOR | 1kΩ 1/4W J | |
| R7512 | QRE141J-122Y | C RESISTOR | 1.2kΩ 1/4W J | |
| R7513 | QRE141J-182Y | C RESISTOR | 1.8kΩ 1/4W J | |
| R7514 | QRE141J-222Y | C RESISTOR | 2.2kΩ 1/4W J | |
| R7515 | QRE141J-272Y | C RESISTOR | 2.7kΩ 1/4W J | |
| R7516 | QRE141J-392Y | C RESISTOR | 3.9kΩ 1/4W J | |
| R7517 | QRE141J-562Y | C RESISTOR | 5.6kΩ 1/4W J | |
| R7520 | QRE141J-182Y | C RESISTOR | 1.8kΩ 1/4W J | |
| R7521 | QRE141J-222Y | C RESISTOR | 2.2kΩ 1/4W J | |
| R7522 | QRE141J-272Y | C RESISTOR | 2.7kΩ 1/4W J | |
| R7523 | QRE141J-392Y | C RESISTOR | 3.9kΩ 1/4W J | |
| R7524 | QRE141J-333Y | C RESISTOR | 33kΩ 1/4W J | |
| R7600 | QRE141J-102Y | C RESISTOR | 1kΩ 1/4W J | |
| R7601 | QRE141J-102Y | C RESISTOR | 1kΩ 1/4W J | |
| R7602 | QRE141J-122Y | C RESISTOR | 1.2kΩ 1/4W J | |
| R7613 | QRE141J-201Y | C RESISTOR | 200Ω 1/4W J | |
| R7615 | QRE141J-201Y | C RESISTOR | 200Ω 1/4W J | |
| R7617 | QRE141J-201Y | C RESISTOR | 200Ω 1/4W J | |
| L4000 | QQLZ035-R39 | COIL | 0.39uH | |
| L4001 | QQLZ035-R39 | COIL | 0.39uH | |
| L5030 | QQL231K-470Y | COIL | 47uH K | |
| L5033 | QQL231K-470Y | COIL | 47uH K | |
| ⚠ T1001 | QQT0370-011 | POWER TRANSF | | |
| CN732 | QGF1205F1-19 | CONNECTOR | FFC/FPC (1-19) | |
| CN733 | QGF1205F1-23 | CONNECTOR | FFC/FPC (1-23) | |
| CN750 | QGF1016F3-09 | CONNECTOR | FFC/FPC (1-9) | |
| CN760 | QGF1205F1-13 | CONNECTOR | FFC/FPC (1-13) | |
| CN761 | QGF1016F3-09 | CONNECTOR | FFC/FPC (1-9) | |
| CN762 | QGA2001F1-02 | CONNECTOR | W-B (1-2) | |
| CN944 | QGB2510K2-10 | CONNECTOR | B-B (1-10) | |
| CN945 | QGB2510K2-08 | CONNECTOR | B-B (1-8) | |
| CN951 | QGD2504C1-03Z | CONNECTOR | (1-3) | |
| DI731 | QLD0261-001 | LCD MODULE | | |
| EP400 | E409182-001SM | GRAND TERMINAL | | |
| EP940 | E409182-001SM | GRAND TERMINAL | | |
| FW500 | QUM154-15DGZ4 | FLAT WIRE | | |
| FW945 | QUM153-12DGZ4 | FLAT WIRE | | |
| FW950 | QUM156-16DGZ4 | FLAT WIRE | | |
| ⚠ J1000 | QGA7901C1-02 | CONNECTOR | W-B (1-2) | |
| J5000 | QNS0170-001 | HEADPHONE JACK | | |
| JS751 | QSW0993-001 | ROTARY ENCODER | | |
| K5022 | QQR0621-001Z | COIL | | |
| ⚠ RY940 | QSK0124-001 | RELAY | | |
| ⚠ S1000 | QSW0812-001 | VOLTAGE SWITCH | | |
| S7510 | QSW0825-001Z | TACT SW | | |
| S7511 | QSW0825-001Z | TACT SW | | |
| S7512 | QSW0825-001Z | TACT SW | | |
| S7513 | QSW0825-001Z | TACT SW | | |
| S7514 | QSW0825-001Z | TACT SW | | |
| S7515 | QSW0825-001Z | TACT SW | | |
| S7516 | QSW0825-001Z | TACT SW | | |
| S7517 | QSW0825-001Z | TACT SW | | |
| S7520 | QSW0825-001Z | TACT SW | | |
| S7521 | QSW0825-001Z | TACT SW | | |
| S7522 | QSW0825-001Z | TACT SW | | |
| S7523 | QSW0825-001Z | TACT SW | | |
| S7601 | QSW0825-001Z | TACT SW | | |
| S7602 | QSW0825-001Z | TACT SW | | |
| S7603 | QSW0825-001Z | TACT SW | | |
| Z1000 | QNG0003-001Z | FUSE CLIP | | |
| Z1001 | QNG0003-001Z | FUSE CLIP | | |
| Z1002 | QNG0003-001Z | FUSE CLIP | | |
| Z1003 | QNG0003-001Z | FUSE CLIP | | |
| Z1004 | QNG0003-001Z | FUSE CLIP | | |
| Z1005 | QNG0003-001Z | FUSE CLIP | | |
| Z1006 | QNG0003-001Z | FUSE CLIP | | |
| Z1007 | QNG0003-001Z | FUSE CLIP | | |
| Z1008 | QNG0003-001Z | FUSE CLIP | | |
| Z1009 | QNG0003-001Z | FUSE CLIP | | |

## CD amp. board

Block No. [0][3][0][0]

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| IC601 | AN22000A-W | IC | | |
| IC651 | MN662748RPMFA | IC | | |
| IC801 | LA6541-X | IC | | |
| IC802 | LB1641 | IC | | |
| IC851 | MN101C30AEF | IC | | |
| Q631 | 2SA1037AK/RS/-X | TRANSISTOR | | |
| Q851 | 2SA952/LK/-T | TRANSISTOR | | |
| D610 | 1SS133-T2 | DIODE | | |
| D611 | 1SS133-T2 | DIODE | | |
| D831 | MTZJ5.6B-T2 | Z DIODE | | |
| C600 | NCB31EK-104X | C CAPACITOR | 0.1uF 25V K | |
| C601 | NCB31HK-222X | C CAPACITOR | 2200pF 50V K | |
| C602 | NCB31HK-222X | C CAPACITOR | 2200pF 50V K | |
| C603 | NCB31HK-223X | C CAPACITOR | 0.022uF 50V K | |
| C604 | NCB31HK-223X | C CAPACITOR | 0.022uF 50V K | |
| C605 | NCS31HJ-471X | C CAPACITOR | 470pF 50V J | |
| C606 | NCS31HJ-820X | C CAPACITOR | 82pF 50V J | |
| C610 | NCB31CK-273X | C CAPACITOR | 0.027uF 16V K | |
| C612 | EEKJ1HM-105ZJC | E CAPACITOR | 1uF 50V M | |
| C613 | NCB31AK-224X | C CAPACITOR | 0.22uF 10V K | |
| C614 | NCB31CK-273X | C CAPACITOR | 0.027uF 16V K | |
| C615 | NCB31HK-472X | C CAPACITOR | 4700pF 50V K | |
| C616 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C617 | NCS31HJ-331X | C CAPACITOR | 330pF 50V J | |
| C619 | NCS31HJ-330X | C CAPACITOR | 33pF 50V J | |
| C621 | NCF31AZ-105X | C CAPACITOR | 1uF 10V Z | |
| C622 | NCB31CK-473X | C CAPACITOR | 0.047uF 16V K | |
| C623 | NCF31AZ-105X | C CAPACITOR | 1uF 10V Z | |
| C624 | QEKJ0JM-107Z | E CAPACITOR | 100uF 6.3V M | |
| C631 | QEKJ1CM-106Z | E CAPACITOR | 10uF 16V M | |
| C632 | NCF31AZ-105X | C CAPACITOR | 1uF 10V Z | |
| C633 | NCB31HK-223X | C CAPACITOR | 0.022uF 50V K | |
| C641 | NCB31CK-473X | C CAPACITOR | 0.047uF 16V K | |
| C642 | NCB31HK-472X | C CAPACITOR | 4700pF 50V K | |
| C643 | NCB31HK-122X | C CAPACITOR | 1200pF 50V K | |
| C651 | NCS31HJ-120X | C CAPACITOR | 12pF 50V J | |
| C652 | NCS31HJ-120X | C CAPACITOR | 12pF 50V J | |
| C655 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C656 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C657 | QERF1AM-227Z | E CAPACITOR | 220uF 10V M | |
| C659 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C661 | NCS31HJ-471X | C CAPACITOR | 470pF 50V J | |
| C663 | NCB31HK-223X | C CAPACITOR | 0.022uF 50V K | |
| C664 | NCB31HK-223X | C CAPACITOR | 0.022uF 50V K | |
| C665 | NCB31AK-154X | C CAPACITOR | 0.15uF 10V K | |
| C669 | QERF1AM-227Z | E CAPACITOR | 220uF 10V M | |
| C676 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C677 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C679 | QEKJ0JM-107Z | E CAPACITOR | 100uF 6.3V M | |
| C680 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C681 | NCB31AK-334X | C CAPACITOR | 0.33uF 10V K | |
| C682 | NCB31HK-102X | C CAPACITOR | 1000pF 50V K | |
| C683 | NCB31HK-102X | C CAPACITOR | 1000pF 50V K | |
| C690 | NCS31HJ-331X | C CAPACITOR | 330pF 50V J | |
| C801 | NCB31HK-682X | C CAPACITOR | 6800pF 50V K | |
| C802 | NCB31HK-472X | C CAPACITOR | 4700pF 50V K | |
| C811 | NCS31HJ-391X | C CAPACITOR | 390pF 50V J | |
| C812 | NCS31HJ-391X | C CAPACITOR | 390pF 50V J | |
| C813 | NCS31HJ-391X | C CAPACITOR | 390pF 50V J | |
| C814 | NCS31HJ-391X | C CAPACITOR | 390pF 50V J | |
| C821 | NCF31AZ-105X | C CAPACITOR | 1uF 10V Z | |
| C822 | QERF1AM-227Z | E CAPACITOR | 220uF 10V M | |
| C831 | EEKJ1CM-107ZJC | E CAPACITOR | | |

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| C832 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C833 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C851 | NCS31HJ-330X | C CAPACITOR | 33pF 50V J | |
| C852 | NCS31HJ-330X | C CAPACITOR | 33pF 50V J | |
| C853 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C854 | QEKJ0JM-476Z | E CAPACITOR | 47uF 6.3V M | |
| C855 | QEKJ0JM-476Z | E CAPACITOR | 47uF 6.3V M | |
| R601 | NRSA63J-474X | MG RESISTOR | 470kΩ 1/16W J | |
| R602 | NRSA63J-274X | MG RESISTOR | 270kΩ 1/16W J | |
| R603 | NRSA63J-393X | MG RESISTOR | 39kΩ 1/16W J | |
| R604 | NRSA63J-274X | MG RESISTOR | 270kΩ 1/16W J | |
| R605 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R606 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R607 | NRSA63J-623X | MG RESISTOR | 62kΩ 1/16W J | |
| R610 | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J | |
| R611 | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J | |
| R612 | NRSA63J-822X | MG RESISTOR | 8.2kΩ 1/16W J | |
| R613 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R615 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R616 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R617 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R631 | NRSA63J-2R2X | MG RESISTOR | 2.2Ω 1/16W J | |
| R632 | NRSA63J-100X | MG RESISTOR | 10Ω 1/16W J | |
| R634 | NRSA63J-120X | MG RESISTOR | 12Ω 1/16W J | |
| R635 | NRSA63J-121X | MG RESISTOR | 120Ω 1/16W J | |
| R636 | NRSA63J-910X | MG RESISTOR | 91Ω 1/16W J | |
| R641 | NRSA63J-823X | MG RESISTOR | 82kΩ 1/16W J | |
| R642 | NRSA63J-564X | MG RESISTOR | 560kΩ 1/16W J | |
| R643 | NRSA63J-153X | MG RESISTOR | 15kΩ 1/16W J | |
| R647 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R651 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R652 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R653 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R655 | NRSA63J-510X | MG RESISTOR | 51Ω 1/16W J | |
| R656 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R657 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R658 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R659 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R661 | NRSA63J-393X | MG RESISTOR | 39kΩ 1/16W J | |
| R662 | NRSA63J-683X | MG RESISTOR | 68kΩ 1/16W J | |
| R663 | NRSA63J-124X | MG RESISTOR | 120kΩ 1/16W J | |
| R664 | NRSA63J-331X | MG RESISTOR | 330Ω 1/16W J | |
| R665 | NRSA63J-271X | MG RESISTOR | 270Ω 1/16W J | |
| R666 | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J | |
| R667 | NRSA63J-4R7X | MG RESISTOR | 4.7Ω 1/16W J | |
| R670 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R681 | NRSA63J-272X | MG RESISTOR | 2.7kΩ 1/16W J | |
| R682 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R683 | NRSA63J-105X | MG RESISTOR | 1MΩ 1/16W J | |
| R684 | NRSA63J-155X | MG RESISTOR | 1.5MΩ 1/16W J | |
| R801 | NRSA63J-272X | MG RESISTOR | 2.7kΩ 1/16W J | |
| R802 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R803 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R804 | NRSA63J-823X | MG RESISTOR | 82kΩ 1/16W J | |
| R805 | NRSA63J-912X | MG RESISTOR | 9.1kΩ 1/16W J | |
| R806 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R807 | NRSA63J-272X | MG RESISTOR | 2.7kΩ 1/16W J | |
| R808 | NRSA63J-433X | MG RESISTOR | 43kΩ 1/16W J | |
| R809 | NRSA63J-122X | MG RESISTOR | 1.2kΩ 1/16W J | |
| R819 | QRE141J-2R2Y | C RESISTOR | 2.2Ω 1/4W J | |
| R820 | QRE141J-2R2Y | C RESISTOR | 2.2Ω 1/4W J | |
| R822 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R831 | QRE141J-100Y | C RESISTOR | 10Ω 1/4W J | |
| R851 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R852 | NRSA63J-122X | MG RESISTOR | 1.2kΩ 1/16W J | |
| R853 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R854 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R855 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R856 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R858 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R859 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R860 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R861 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R862 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R863 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R864 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R865 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R866 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R867 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R868 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R869 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R870 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R871 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R872 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R873 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R874 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R875 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R876 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R881 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R882 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R883 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R884 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R885 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| L831 | QQL244K-100Z | COIL | 10uH K | |
| CN601 | QGF1016F3-16 | CONNECTOR | FFC/FPC (1-16) | |
| CN606 | QGF1205F1-05 | CONNECTOR | FFC/FPC (1-5) | |
| CN651 | QGF1036F1-15 | CONNECTOR | FFC/FPC (1-15) | |
| CN652 | QGF1036F1-19 | CONNECTOR | FFC/FPC (1-19) | |
| CN801 | QGA2001C1-06 | CONNECTOR | W-B (1-6) | |
| SP602 | VYSA1R4-100 | SPACER | | |
| X651 | QAX0413-001Z | CRYSTAL | 16.9344MHz | |
| X851 | QAX0283-001Z | C RESONATOR | 8.000MHz | |

## Tuner board

Block No. [0][4][0][0]

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| IC1 | LA1838 | IC | | |
| IC2 | LC72136N | IC | | |
| Q1 | 2SC2814/4-5/-X | TRANSISTOR | | |
| Q5 | KRA107S-X | DIGI TRANSISTOR | | |
| D1 | 1SS133-T2 | DIODE | | |
| D2 | 1SS133-T2 | DIODE | | |
| D3 | 1SS133-T2 | DIODE | | |
| D4 | 1SS133-T2 | DIODE | | |
| D11 | 1SS133-T2 | DIODE | | |
| C1 | NCB21HK-223X | C CAPACITOR | 0.022uF 50V K | |
| C2 | NCB21HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C3 | EETC1CM-106ZJC | E CAPACITOR | | |
| C4 | NCB21HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C6 | NCB21HK-102X | C CAPACITOR | 1000pF 50V K | |
| C7 | NCB21HK-102X | C CAPACITOR | 1000pF 50V K | |
| C8 | NCB21HK-102X | C CAPACITOR | 1000pF 50V K | |
| C10 | NRSA02J-0R0X | MG RESISTOR | 0Ω 1/10W J | |
| C11 | NCB21HK-104X | C CAPACITOR | 0.1uF 50V K | |
| C12 | NCB21HK-473X | C CAPACITOR | 0.047uF 50V K | |
| C13 | NCS21HJ-100X | C CAPACITOR | 10pF 50V J | |
| C14 | QEKC1AM-107Z | E CAPACITOR | 100uF 10V M | |
| C15 | NCS21HJ-120X | C CAPACITOR | 12pF 50V J | |
| C16 | NCS21HJ-120X | C CAPACITOR | 12pF 50V J | |
| C17 | NCB21HK-392X | C CAPACITOR | 3900pF 50V K | |
| C18 | QEQ61HM-474Z | E CAPACITOR | 0.47uF 50V M | |
| C19 | NCB21HK-473X | C CAPACITOR | 0.047uF 50V K | |
| C20 | NCB21HK-102X | C CAPACITOR | 1000pF 50V K | |
| C21 | NCB21HK-223X | C CAPACITOR | 0.022uF 50V K | |
| C22 | NCS21HJ-151X | C CAPACITOR | 150pF 50V J | |
| C23 | NCS21HJ-151X | C CAPACITOR | 150pF 50V J | |
| C24 | NCS21HJ-151X | C CAPACITOR | 150pF 50V J | |
| C25 | QEKC1AM-107Z | E CAPACITOR | 100uF 10V M | |
| C26 | NCB21HK-102X | C CAPACITOR | 1000pF 50V K | |
| C27 | NCB21HK-102X | C CAPACITOR | 1000pF 50V K | |
| C30 | EEKC1CM-107ZJC | E CAPACITOR | | |
| C31 | EEKC1CM-226ZJC | E CAPACITOR | | |
| C32 | NCB21HK-473X | C CAPACITOR | 0.047uF 50V K | |
| C33 | NCB21HK-473X | C CAPACITOR | 0.047uF 50V K | |

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| C34 | NCB21HK-223X | C CAPACITOR | 0.022uF 50V K | |
| C35 | NCB21HK-473X | C CAPACITOR | 0.047uF 50V K | |
| C36 | EEKC1HM-105ZJC | E CAPACITOR | | |
| C37 | EEKC1HM-105ZJC | E CAPACITOR | | |
| C38 | EETC1HM-224ZJC | E CAPACITOR | | |
| C39 | EETC1HM-105ZJC | E CAPACITOR | | |
| C40 | QETN1CM-106Z | E CAPACITOR | 10uF 16V M | |
| C41 | QETN1CM-106Z | E CAPACITOR | 10uF 16V M | |
| C42 | NCB21HK-152X | C CAPACITOR | 1500pF 50V K | |
| C43 | NCB21HK-152X | C CAPACITOR | 1500pF 50V K | |
| C44 | QETN1CM-106Z | E CAPACITOR | 10uF 16V M | |
| C45 | QETN1CM-106Z | E CAPACITOR | 10uF 16V M | |
| C46 | NCB21HK-273X | C CAPACITOR | 0.027uF 50V K | |
| C47 | EETC1HM-105ZJC | E CAPACITOR | | |
| C48 | NCB21HK-222X | C CAPACITOR | 2200pF 50V K | |
| C49 | NCS21HJ-471X | C CAPACITOR | 470pF 50V J | |
| C50 | EEKC1CM-226ZJC | E CAPACITOR | | |
| C51 | EEKC1HM-105ZJC | E CAPACITOR | | |
| C52 | QFVJ1HJ-274Z | MF CAPACITOR | 0.27uF 50V J | |
| C53 | EETC1CM-226ZJC | E CAPACITOR | | |
| C54 | NCB21HK-473X | C CAPACITOR | 0.047uF 50V K | |
| C57 | NCB21HK-102X | C CAPACITOR | 1000pF 50V K | |
| C58 | NCB21HK-473X | C CAPACITOR | 0.047uF 50V K | |
| C59 | NCB21HK-102X | C CAPACITOR | 1000pF 50V K | |
| | | | | |
| R1 | QRE141J-560Y | C RESISTOR | 56Ω 1/4W J | |
| R2 | NRSA02J-331X | MG RESISTOR | 330Ω 1/10W J | |
| R3 | NRSA02J-224X | MG RESISTOR | 220kΩ 1/10W J | |
| R4 | NRSA02J-331X | MG RESISTOR | 330Ω 1/10W J | |
| R5 | NRSA02J-560X | MG RESISTOR | 56Ω 1/10W J | |
| R6 | NRSA02J-240X | MG RESISTOR | 24Ω 1/10W J | |
| R10 | NRSA02J-222X | MG RESISTOR | 2.2kΩ 1/10W J | |
| R13 | NRSA02J-103X | MG RESISTOR | 10kΩ 1/10W J | |
| R14 | NRSA02J-104X | MG RESISTOR | 100kΩ 1/10W J | |
| R15 | NRSA02J-332X | MG RESISTOR | 3.3kΩ 1/10W J | |
| R16 | NRSA02J-472X | MG RESISTOR | 4.7kΩ 1/10W J | |
| ⚠ R17 | QRZ9005-680X | F RESISTOR | 68Ω | |
| R18 | NRSA02J-102X | MG RESISTOR | 1kΩ 1/10W J | |
| R19 | NRSA02J-102X | MG RESISTOR | 1kΩ 1/10W J | |
| R20 | NRSA02J-102X | MG RESISTOR | 1kΩ 1/10W J | |
| R21 | NRSA02J-562X | MG RESISTOR | 5.6kΩ 1/10W J | |
| R22 | NRSA02J-472X | MG RESISTOR | 4.7kΩ 1/10W J | |
| R23 | NRSA02J-182X | MG RESISTOR | 1.8kΩ 1/10W J | |
| R24 | NRSA02J-103X | MG RESISTOR | 10kΩ 1/10W J | |
| R25 | NRSA02J-331X | MG RESISTOR | 330Ω 1/10W J | |
| R26 | NRSA02J-222X | MG RESISTOR | 2.2kΩ 1/10W J | |
| R27 | NRSA02J-103X | MG RESISTOR | 10kΩ 1/10W J | |
| R28 | NRSA02J-103X | MG RESISTOR | 10kΩ 1/10W J | |
| R29 | NRSA02J-103X | MG RESISTOR | 10kΩ 1/10W J | |
| R30 | NRSA02J-122X | MG RESISTOR | 1.2kΩ 1/10W J | |
| R31 | NRSA02J-102X | MG RESISTOR | 1kΩ 1/10W J | |
| R32 | NRSA02J-102X | MG RESISTOR | 1kΩ 1/10W J | |
| R33 | NRSA02J-331X | MG RESISTOR | 330Ω 1/10W J | |
| R34 | NRSA02J-470X | MG RESISTOR | 47Ω 1/10W J | |
| R35 | NRSA02J-562X | MG RESISTOR | 5.6kΩ 1/10W J | |
| R36 | NRSA02J-332X | MG RESISTOR | 3.3kΩ 1/10W J | |
| R37 | NRSA02J-103X | MG RESISTOR | 10kΩ 1/10W J | |
| R38 | NRSA02J-563X | MG RESISTOR | 56kΩ 1/10W J | |
| R39 | NRSA02J-563X | MG RESISTOR | 56kΩ 1/10W J | |
| R40 | NRSA02J-243X | MG RESISTOR | 24kΩ 1/10W J | |
| R41 | NRSA02J-332X | MG RESISTOR | 3.3kΩ 1/10W J | |
| R60 | NRSA02J-0R0X | MG RESISTOR | 0Ω 1/10W J | |
| | | | | |
| L1 | QQR0796-003 | COIL BLOCK | | |
| T1 | QQR0793-001 | IFT | | |
| | | | | |
| CF1 | QAX0677-001Z | C FILTER | 10.700MHz | |
| CF2 | QAX0677-001Z | C FILTER | 10.700MHz | |
| CF3 | QAX0610-001Z | C DISCRIMINATOR | 10.700MHz | |
| CN1 | QGF1205F1-09 | CONNECTOR | FFC/FPC (1-9) | |
| J1 | QNB0014-001 | ANT.TERMINAL | | |
| TU1 | QAU0161-001 | FRONT END | | |
| X1 | QAX0402-001 | CRYSTAL | 75.0kHz | |

# VCD board

Block No. [0][5][0][0]

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| IC101 | ES3880FM | IC | | |
| IC102 | AT27C020-70JCU4 | IC | | |
| IC103 | GLT44016-35J4-X | IC (4M DRAM) | 4M DRAM | |
| IC103 | M11B416256A-30J | DRAM IC | | |
| IC103 | M11B416256A-35J | DRAM IC | | |
| IC104 | ES3883F | IC | | |
| IC105 | RT9161/A-27CG-X | IC | | |
| IC106 | TC7S08F-W | IC | | |
| IC107 | TC7W08FU-X | IC | | |
| | | | | |
| C101 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C102 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C103 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C104 | QERF1CM-106Z | E CAPACITOR | 10uF 16V M | |
| C105 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C106 | QERF1CM-106Z | E CAPACITOR | 10uF 16V M | |
| C107 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C109 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C110 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C111 | NCS31HJ-471X | C CAPACITOR | 470pF 50V J | |
| C112 | NCS31HJ-471X | C CAPACITOR | 470pF 50V J | |
| C113 | NCS31HJ-220X | C CAPACITOR | 22pF 50V J | |
| C114 | NCB31HK-102X | C CAPACITOR | 1000pF 50V K | |
| C115 | NCS31HJ-220X | C CAPACITOR | 22pF 50V J | |
| C116 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C117 | QERF0JM-476Z | E CAPACITOR | 47uF 6.3V M | |
| C118 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C120 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C121 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C122 | QERF1AM-107Z | E CAPACITOR | 100uF 10V M | |
| C123 | QERF0JM-476Z | E CAPACITOR | 47uF 6.3V M | |
| C124 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C125 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C126 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C127 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C128 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C129 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C130 | QERF1AM-107Z | E CAPACITOR | 100uF 10V M | |
| C131 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C132 | QERF1AM-107Z | E CAPACITOR | 100uF 10V M | |
| C133 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C134 | QERF1CM-106Z | E CAPACITOR | 10uF 16V M | |
| C135 | QERF0JM-476Z | E CAPACITOR | 47uF 6.3V M | |
| C136 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C137 | NCB31CK-103X | C CAPACITOR | 0.01uF 16V K | |
| C138 | QERF1AM-107Z | E CAPACITOR | 100uF 10V M | |
| C140 | NCS31HJ-220X | C CAPACITOR | 22pF 50V J | |
| C141 | NCS31HJ-220X | C CAPACITOR | 22pF 50V J | |
| | | | | |
| R101 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R102 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R103 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R104 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R105 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R106 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R107 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R108 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R109 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R111 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R112 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R113 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R119 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R120 | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J | |
| R121 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| R128 | NRSA63J-330X | MG RESISTOR | 33Ω 1/16W J | |
| R130 | NRSA63J-330X | MG RESISTOR | 33Ω 1/16W J | |
| R132 | NRSA63J-271X | MG RESISTOR | 270Ω 1/16W J | |
| R133 | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J | |
| R134 | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J | |
| R135 | NRSA63J-100X | MG RESISTOR | 10Ω 1/16W J | |
| R136 | NRSA63J-100X | MG RESISTOR | 10Ω 1/16W J | |
| R137 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R138 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R139 | NRSA63J-330X | MG RESISTOR | 33Ω 1/16W J | |

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| R140 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R142 | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J | |
| R145 | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J | |
| R146 | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J | |
| R147 | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J | |
| R148 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| L101 | NQL591K-3R3X | INDUCTOR C.M. | 3.3uH K | |
| L102 | NQL591K-3R3X | INDUCTOR C.M. | 3.3uH K | |
| CN101 | QGF1036F1-15 | CONNECTOR | FFC/FPC (1-15) | |
| CN102 | QGF1036F1-15 | CONNECTOR | FFC/FPC (1-15) | |
| K101 | NRSA02J-100X | MG RESISTOR | 10Ω 1/10W J | |
| K102 | NCB21HK-103X | C CAPACITOR | 0.01uF 50V K | |
| K103 | NRSA02J-180X | MG RESISTOR | 18Ω 1/10W J | |
| K104 | NRSA02J-102X | MG RESISTOR | 1kΩ 1/10W J | |
| X101 | QAX0700-001Z | CRYSTAL | 27.000000MHz | |

## Cassette switch board

Block No. [0][6][0][0]

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| IC1 | SG-105F3-BB,C | PHOTO SENSER | | |
| D1 | 1SR139-400-T2 | SI DIODE | | |
| R371 | QRE141J-123Y | C RESISTOR | 12kΩ 1/4W J | |
| VR37 | QVP0077-103Z | TRIM RESISTOR | 10kΩ | |
| CN1 | QGF1205F1-09 | CONNECTOR | FFC/FPC (1-9) | |
| FW100 | QUM024-07A2Z3 | PARA RIBON WIRE | | |
| P1 | QNZ0104-001 | POST PIN | | |
| SW1 | QSW0832-001 | CASS.SWITCH | | |
| SW2 | QSW0832-001 | CASS.SWITCH | | |
| SW5 | QSW0832-001 | CASS.SWITCH | | |
| SW6 | QSW0859-001 | DETECT SWITCH | | |

## Head amplifier board

Block No. [0][7][0][0]

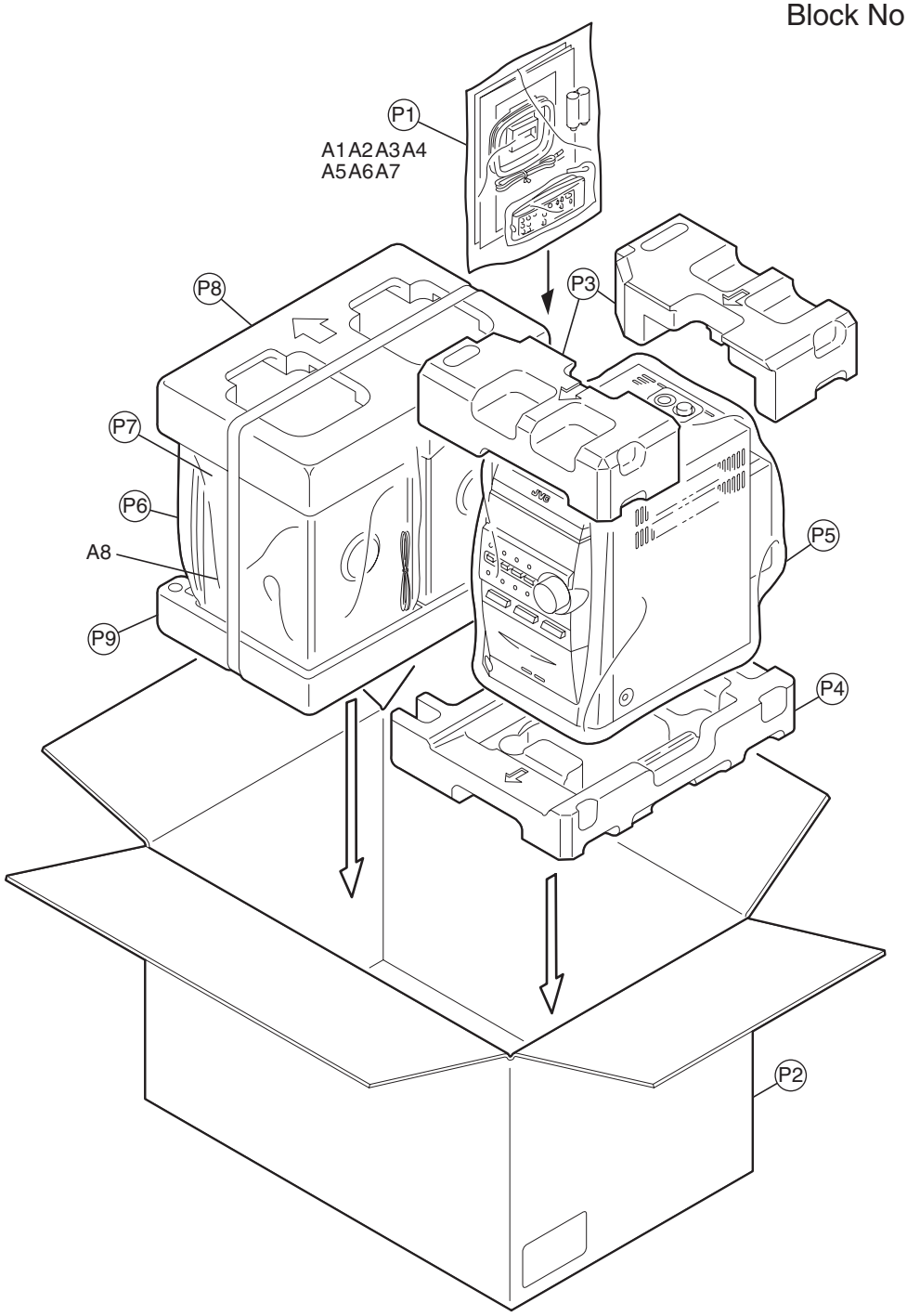
| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| IC32 | HA12238F | IC | | |
| IC33 | CD4094BC | IC | | |
| Q302 | 2SC2001/K/-T | TRANSISTOR | | |
| Q305 | 2SC2001/K/-T | TRANSISTOR | | |
| Q342 | KRA111M-T | DIGI TRANSISTOR | | |
| Q343 | 2SC3576-JVC-T | TRANSISTOR | | |
| Q344 | 2SC3576-JVC-T | TRANSISTOR | | |
| Q345 | 2SC3576-JVC-T | TRANSISTOR | | |
| Q346 | 2SC3576-JVC-T | TRANSISTOR | | |
| Q347 | KRC107M-T | DIGI TRANSISTOR | | |
| Q371 | KTA1271/OY/-T | TRANSISTOR | | |
| Q372 | KRC107M-T | DIGI TRANSISTOR | | |
| Q375 | 2SB562/C/-T | TRANSISTOR | | |
| Q376 | KTC3199/GL/-T | TRANSISTOR | | |
| D340 | MTZJ5.1B-T2 | Z DIODE | | |
| D375 | MTZJ5.1B-T2 | Z DIODE | | |
| C101 | QDGB1HK-821Y | C CAPACITOR | 820pF 50V K | |
| C102 | QDYB1CM-103Y | C CAPACITOR | 0.01uF 16V M | |
| C103 | QFLA1HJ-104Z | M CAPACITOR | 0.1uF 50V J | |
| C104 | QCBB1HK-221Y | C CAPACITOR | 220pF 50V K | |
| C105 | QCBB1HK-391Y | C CAPACITOR | 390pF 50V K | |
| C106 | QERF1HM-225Z | E CAPACITOR | 2.2uF 50V M | |
| C107 | QCBB1HK-271Y | C CAPACITOR | 270pF 50V K | |
| C109 | QEKJ1EM-475Z | E CAPACITOR | 4.7uF 25V M | |

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| C110 | QDYB1CM-682Y | C CAPACITOR | 6800pF 16V M | |
| C113 | QFLA1HJ-104Z | M CAPACITOR | 0.1uF 50V J | |
| C120 | QCSB1HK-4R7Y | C CAPACITOR | 4.7pF 50V K | |
| C121 | QCBB1HK-331Y | C CAPACITOR | 330pF 50V K | |
| C201 | QDGB1HK-821Y | C CAPACITOR | 820pF 50V K | |
| C202 | QDYB1CM-103Y | C CAPACITOR | 0.01uF 16V M | |
| C203 | QFLA1HJ-104Z | M CAPACITOR | 0.1uF 50V J | |
| C204 | QCBB1HK-221Y | C CAPACITOR | 220pF 50V K | |
| C205 | QCBB1HK-391Y | C CAPACITOR | 390pF 50V K | |
| C206 | QERF1HM-225Z | E CAPACITOR | 2.2uF 50V M | |
| C207 | QCBB1HK-271Y | C CAPACITOR | 270pF 50V K | |
| C209 | QEKJ1EM-475Z | E CAPACITOR | 4.7uF 25V M | |
| C210 | QDYB1CM-682Y | C CAPACITOR | 6800pF 16V M | |
| C213 | QFLA1HJ-104Z | M CAPACITOR | 0.1uF 50V J | |
| C220 | QCSB1HK-4R7Y | C CAPACITOR | 4.7pF 50V K | |
| C221 | QCBB1HK-331Y | C CAPACITOR | 330pF 50V K | |
| C300 | QEKJ1HM-105Z | E CAPACITOR | 1uF 50V M | |
| C301 | QEKJ1AM-107Z | E CAPACITOR | 100uF 10V M | |
| C304 | QEKJ1CM-106Z | E CAPACITOR | 10uF 16V M | |
| C306 | FQETJ1AM-227Z | E CAPACITOR | | |
| C307 | QDGB1HK-102Y | C CAPACITOR | 1000pF 50V K | |
| C308 | QDXB1CM-152Y | C CAPACITOR | 1500pF 16V M | |
| C310 | QCBB1HK-223Y | C CAPACITOR | 0.022uF 50V K | |
| C313 | QEKJ1AM-107Z | E CAPACITOR | 100uF 10V M | |
| C314 | QCFB1HZ-105Y | C CAPACITOR | 1uF 50V Z | |
| C316 | QFG32AJ-223Z | PP CAPACITOR | 0.022uF 100V J | |
| C319 | QFLC1HJ-472Z | M CAPACITOR | 4700pF 50V J | |
| C331 | QEKJ1CM-476Z | E CAPACITOR | 47uF 16V M | |
| C340 | QEKJ1CM-476Z | E CAPACITOR | 47uF 16V M | |
| C341 | QEKJ1HM-105Z | E CAPACITOR | 1uF 50V M | |
| C342 | QEKJ1CM-476Z | E CAPACITOR | 47uF 16V M | |
| C371 | QEKJ1EM-475Z | E CAPACITOR | 4.7uF 25V M | |
| C374 | QEKJ1AM-107Z | E CAPACITOR | 100uF 10V M | |
| C376 | QDYB1CM-103Y | C CAPACITOR | 0.01uF 16V M | |
| R101 | QRE141J-512Y | C RESISTOR | 5.1kΩ 1/4W J | |
| R102 | QRE141J-512Y | C RESISTOR | 5.1kΩ 1/4W J | |
| R104 | QRE141J-222Y | C RESISTOR | 2.2kΩ 1/4W J | |
| R105 | QRE141J-104Y | C RESISTOR | 100kΩ 1/4W J | |
| R106 | QRE141J-113Y | C RESISTOR | 11kΩ 1/4W J | |
| R107 | QRE141J-912Y | C RESISTOR | 9.1kΩ 1/4W J | |
| R108 | QRE141J-273Y | C RESISTOR | 27kΩ 1/4W J | |
| R110 | QRE141J-103Y | C RESISTOR | 10kΩ 1/4W J | |
| R116 | QRE141J-102Y | C RESISTOR | 1kΩ 1/4W J | |
| R121 | QRE141J-153Y | C RESISTOR | 15kΩ 1/4W J | |
| R201 | QRE141J-512Y | C RESISTOR | 5.1kΩ 1/4W J | |
| R202 | QRE141J-512Y | C RESISTOR | 5.1kΩ 1/4W J | |
| R204 | QRE141J-222Y | C RESISTOR | 2.2kΩ 1/4W J | |
| R205 | QRE141J-104Y | C RESISTOR | 100kΩ 1/4W J | |
| R206 | QRE141J-113Y | C RESISTOR | 11kΩ 1/4W J | |
| R207 | QRE141J-912Y | C RESISTOR | 9.1kΩ 1/4W J | |
| R208 | QRE141J-273Y | C RESISTOR | 27kΩ 1/4W J | |
| R210 | QRE141J-103Y | C RESISTOR | 10kΩ 1/4W J | |
| R216 | QRE141J-102Y | C RESISTOR | 1kΩ 1/4W J | |
| R221 | QRE141J-153Y | C RESISTOR | 15kΩ 1/4W J | |
| R301 | QRE141J-221Y | C RESISTOR | 220Ω 1/4W J | |
| R302 | QRE141J-222Y | C RESISTOR | 2.2kΩ 1/4W J | |
| R303 | QRE141J-222Y | C RESISTOR | 2.2kΩ 1/4W J | |
| ⚠ R304 | QRJ146J-101X | UNF C RESISTOR | 100Ω 1/4W J | |
| R305 | QRE141J-103Y | C RESISTOR | 10kΩ 1/4W J | |
| R306 | QRE141J-472Y | C RESISTOR | 4.7kΩ 1/4W J | |
| ⚠ R310 | QRJ146J-4R7X | UNF C RESISTOR | 4.7Ω 1/4W J | |
| R313 | QRE141J-2R2Y | C RESISTOR | 2.2Ω 1/4W J | |
| R314 | QRE141J-153Y | C RESISTOR | 15kΩ 1/4W J | |
| R315 | QRE141J-101Y | C RESISTOR | 100Ω 1/4W J | |
| R327 | QRE141J-474Y | C RESISTOR | 470kΩ 1/4W J | |
| R335 | QRE141J-222Y | C RESISTOR | 2.2kΩ 1/4W J | |
| R336 | QRE141J-223Y | C RESISTOR | 22kΩ 1/4W J | |
| R337 | QRE141J-332Y | C RESISTOR | 3.3kΩ 1/4W J | |
| R338 | QRE141J-392Y | C RESISTOR | 3.9kΩ 1/4W J | |
| R339 | QRE141J-104Y | C RESISTOR | 100kΩ 1/4W J | |
| R340 | QRE141J-681Y | C RESISTOR | 680Ω 1/4W J | |
| R341 | QRE141J-123Y | C RESISTOR | 12kΩ 1/4W J | |
| R342 | QRE141J-243Y | C RESISTOR | 24kΩ 1/4W J | |
| R343 | QRE141J-183Y | C RESISTOR | 18kΩ 1/4W J | |
| R344 | QRE141J-472Y | C RESISTOR | 4.7kΩ 1/4W J | |
| R345 | QRE141J-472Y | C RESISTOR | 4.7kΩ 1/4W J | |
| R346 | QRE141J-472Y | C RESISTOR | 4.7kΩ 1/4W J | |

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| R347 | QRE141J-103Y | C RESISTOR | 10kΩ 1/4W J | |
| ⚠ R353 | QRZ9005-100X | FUSI RESISTOR | 10Ω | |
| R372 | QRE141J-102Y | C RESISTOR | 1kΩ 1/4W J | |
| R375 | QRE141J-151Y | C RESISTOR | 150Ω 1/4W J | |
| R376 | QRE141J-472Y | C RESISTOR | 4.7kΩ 1/4W J | |
| VR31 | QVP0008-203Z | TRIM RESISTOR | 20kΩ | |
| L301 | QQR1118-002 | OSC COIL(BIAS) | | |
| L303 | QQL244K-100Z | COIL | 10uH K | |
| CN31 | QGF1205F1-06 | CONNECTOR | FFC/FPC (1-6) | |
| CN32 | QGF1205F1-09 | CONNECTOR | FFC/FPC (1-9) | |
| CN33 | QGF1205F1-09 | CONNECTOR | FFC/FPC (1-9) | |
| CN34 | QGF1201F3-10 | CONNECTOR | FFC/FPC (1-10) | |
| H32 | GV40397-002A | IC HOLDER | | |

# Packing materials and accessories parts list

Block No. M 3 M M




## Packing and accessories

Block No. [M][3][M][M]

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| A 1 | GVT0116-003B | INST BOOK | ENG CHI THA | |
| A 2 | QAL0457-001 | ANT.WIRE | | |
| A 3 | QAL0014-001 | AM LOOP ANT | | |
| ⚠A 4 | QAM0112-002 | PLUG ADAPTOR | | |
| A 5 | RM-SUXJ55V | REMOCON UNIT | | |
| A 6 | ---------- | BATTERY | (x2) | |
| ⚠A 7 | QAM0216-001 | SIGNAL CORD | | |
| A 8 | UXJ55VK-SPBOX | SPEAKER BOX | (x2) | |

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| P 1 | QPC02503515P | POLY BAG | 25cm x 35cm | |
| P 2 | GV20219-004A | CARTON ASSY. | | |
| P 3 | GV10135-001A | CUSHION UPPER | | |
| P 4 | GV10136-001A | CUSHION BOTTOM | | |
| P 5 | QPC05006515P | POLY BAG | 50cm x 65cm | |
| P 6 | 138763001072 | MIRAMAT SHEET | (x2) | |
| P 7 | 138764601090 | POLY BAG | (x2) | |
| P 8 | 139763681086 | POLYFOAM(TOP) | | |
| P 9 | 139763681087 | POLYFOAM(BTTM) | | |