

# JVC

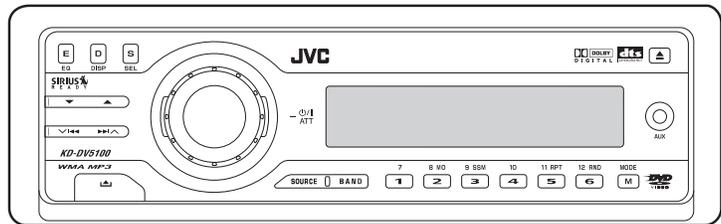
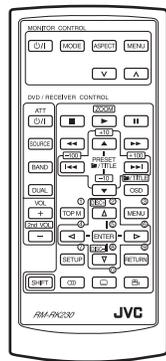
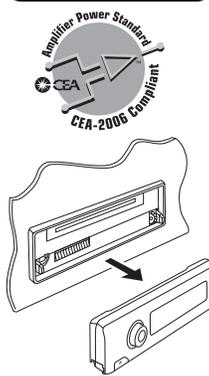
## SERVICE MANUAL

### DVD/CD RECEIVER

# KD-DV5100

Area suffix

J ----- Northern America



WMA  
MP3

SIRIUS  
READY

DOLBY  
DIGITAL

dts  
2.0+DIGITAL OUT

DVD  
VIDEO

COMPACT  
disc  
DIGITAL VIDEO

### TABLE OF CONTENTS

|   |                                     |      |
|---|-------------------------------------|------|
| 1 | PRECAUTIONS .....                   | 1-3  |
| 2 | SPECIFIC SERVICE INSTRUCTIONS ..... | 1-5  |
| 3 | DISASSEMBLY .....                   | 1-6  |
| 4 | ADJUSTMENT .....                    | 1-20 |
| 5 | TROUBLESHOOTING .....               | 1-28 |

# SPECIFICATION

## AUDIO AMPLIFIER SECTION

|                          |  |  |
|--------------------------|--|--|
| Power Output             | 20 W RMS × 4 Channels at 4 Ω and [ $<$ or $=$ ] 1% THD+N |  |
| Signal to Noise Ratio    | 80 dBA (reference: 1 W into 4 Ω)                         |  |
| Load Impedance           | 4 Ω (4 Ω to 8 Ω allowance)                               |  |
| Equalizer Control Range  | Frequencies  | 60 Hz, 150 Hz, 400 Hz, 1 kHz, 2.4 kHz, 6 kHz, 15 kHz           |
|                          | Level  | ±10 dB   |
| Audio Output Level       | Analog (2nd AUDIO OUT)                                   | 6 mW (at 16 Ω)   |
|                          | Digital (DIGITAL OUT: Optical)                           | Signal wave length: 660 nm<br>Output level: -21 dBm to -15 dBm |
|                          | Line-Out Level/Impedance                                 | 2.5 V/20 kΩ load (full scale)                                  |
|                          | Output Impedance   | 1 kΩ   |
| Color System             | NTSC   |  |
| Video Output (composite) | 1 V <sub>p-p</sub> /75 Ω                                 |  |
| Other Terminals          | LINE IN, CD changer                                      |  |

## TUNER SECTION

|                 |   |   |
|-----------------|---|---|
| Frequency Range | FM                                      | 87.5 MHz to 107.9 MHz (with channel interval set to 200 kHz)<br>87.5 MHz to 108.0 MHz (with channel interval set to 50 kHz) |
|                 | AM                                      | 530 kHz to 1 710 kHz (with channel interval set to 10 kHz)<br>531 kHz to 1 602 kHz (with channel interval set to 9 kHz)     |
| FM Tuner        | Usable Sensitivity                      | 11.3 dBf (1.0 μV/75 Ω)  |
|                 | 50 dB Quieting Sensitivity              | 16.3 dBf (1.8 μV/75 Ω)  |
|                 | Alternate Channel Selectivity (400 kHz) | 65 dB   |
|                 | Frequency Response                      | 40 Hz to 15 000 Hz  |
|                 | Stereo Separation                       | 35 dB   |
|                 | Capture Ratio                           | 1.5 dB  |
| AM Tuner        | Sensitivity                             | 20 μV   |
|                 | Selectivity                             | 35 dB   |

## DVD/CD PLAYER SECTION

|                           |  |                    |
|---------------------------|--|--------------------|
| Signal Detection System   | Non-contact optical pickup (semiconductor laser) |                    |
| Number of Channels        | 2 channels (stereo)                              |                    |
| Frequency Response        | DVD, fs=48 kHz/96 kHz                            | 16 Hz to 22 000 Hz |
|                           | VCD, CD, MP3, WMA                                | 16 Hz to 20 000 Hz |
| Dynamic Range             | 96 dB  |                    |
| Signal-to-Noise Ratio     | 98 dB  |                    |
| Wow and Flutter           | Less than measurable limit                       |                    |
| MP3 (MPEG Audio Layer 3)  | Max. Bit Rate: 320 kbps                          |                    |
| WMA (Windows Media Audio) | Max. Bit Rate: 192 kbps                          |                    |

## GENERAL

|                                 |  |  |
|---------------------------------|--|--|
| Power Requirement               | Operating Voltage                        | DC 14.4 V (11 V to 16 V allowance)                   |
| Grounding System                | Negative ground                          |  |
| Allowable Operating Temperature | 0°C to +40°C (32°F to 104°F)             |  |
| Dimensions (W × H × D)          | Installation Size (approx.)              | 182 mm × 52 mm × 158 mm (7-3/16" × 2-1/16" × 6-1/4") |
|                                 | Panel Size (approx.)                     | 188 mm × 58 mm × 11 mm (7-7/16" × 2-5/16" × 7/16")   |
| Mass (approx.)                  | 1.7 kg (3.7 lbs) (excluding accessories) |  |

Design and specifications are subject to change without notice.

# SECTION 1 PRECAUTIONS

## 1.1 Safety Precautions

 **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 performing repair of this system.

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

## 1.2 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.

### 1.2.1 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.

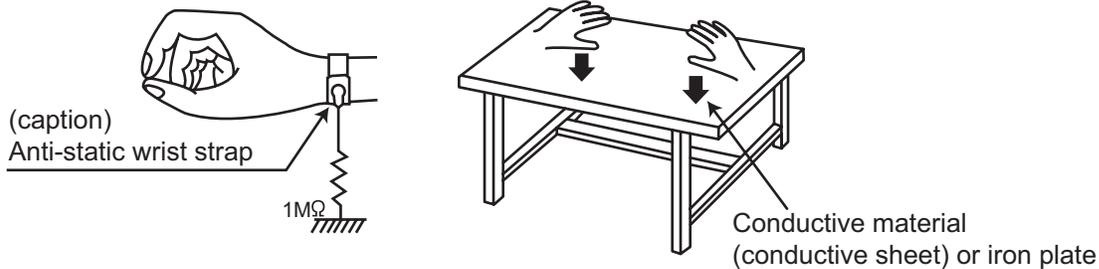
Be careful to use proper grounding in the area where repairs are being performed.

(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.

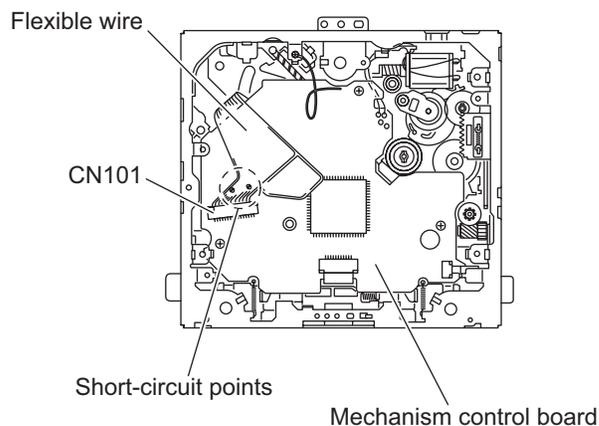
## 1.3 Handling the traverse unit (optical pickup)

- (1) Before disconnecting the flexible wire from the connector [CN101](#) on the mechanism control board, solder the short-circuit points on the flexible wire.

**Caution:**

If you do not follow this instruction, the DVD pickup may be damaged.

- (2) Disconnect the flexible wire from the connector [CN101](#) on the mechanism control board.
- (3) Remove the solders from the short-circuit points on the flexible wire after replacing the DVD pickup.
- (4) Connect the flexible wire to the connector [CN101](#) on the mechanism control board.



**SECTION 2**  
**SPECIFIC SERVICE INSTRUCTIONS**

This service manual does not describe SPECIFIC SERVICE INSTRUCTIONS.

## SECTION 3 DISASSEMBLY

### 3.1 Main body section

#### 3.1.1 Removing the front panel assembly (See Fig.1)

Push the detach button in the lower left part of the front panel assembly and remove the front panel assembly.

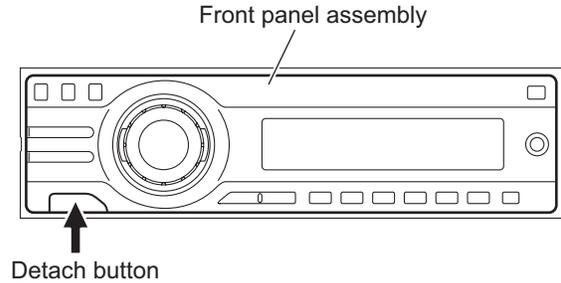


Fig.1

#### 3.1.2 Removing the bottom cover (See Fig.2)

**Reference:**

Remove the front panel assembly as required.

- (1) Release the two joints **a**, two joints **b** and joint **c**.
- (2) Remove the bottom cover from the main body.

**Caution:**

Do not damage the main board when releasing the joints using a screwdriver or a similar tool.

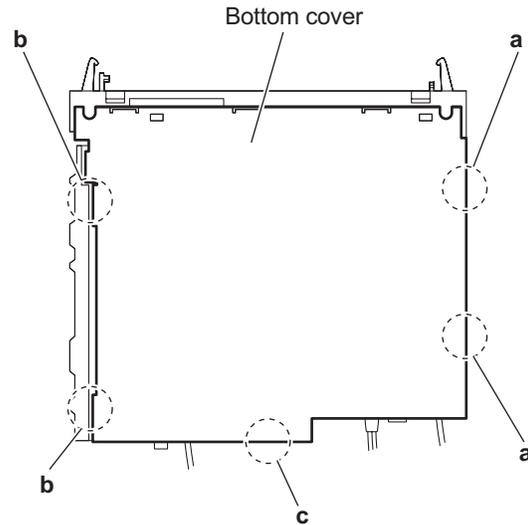


Fig.2

### 3.1.3 Removing the front chassis assembly (See Figs.3 and 4)

- Remove the front panel assembly and bottom cover.
  - From the front side of the main body, remove the two screws **A** attaching the front chassis assembly. (See Fig.3.)
  - From the both sides of the main body, remove the two screws **B** attaching the front chassis assembly. (See Fig.4.)
  - Release the two joints **d** and two joints **e**. (See Fig.4.)

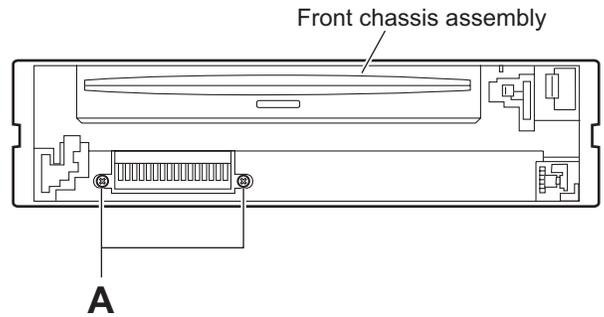


Fig.3

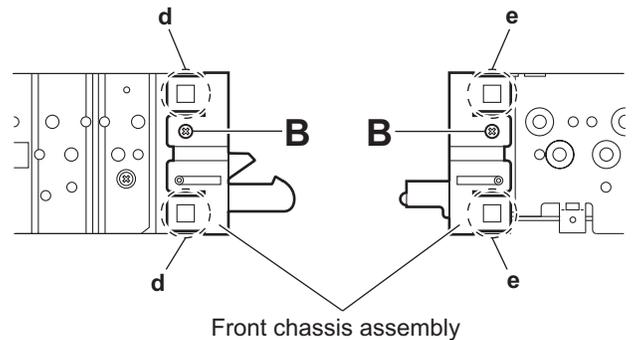


Fig.4

### 3.1.4 Removing the side heat sink (See Fig.5)

#### Reference:

Remove the front panel and front chassis assemblies as required.

From the left side of the main body, remove the two screws **C** and three screws **D** attaching the side heat sink.

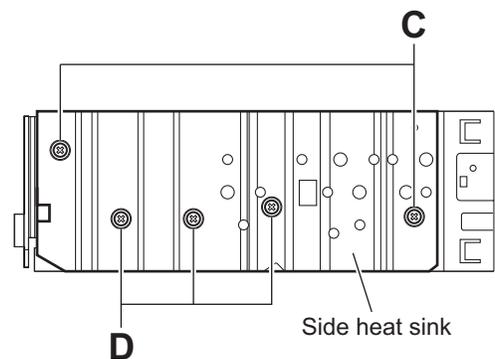


Fig.5

### 3.1.5 Removing the rear bracket (See Fig.6)

- Remove the bottom cover.
  - From the back side of the main body, remove the two screws **E**, two screws **E'**, screw **F**, two screws **G** and three screws **H** attaching the rear bracket.
  - Remove the LINE IN cable from the rear bracket in the direction of the arrow.

#### Reference:

- When attaching the LINE IN cable, insert it in a slot of the rear bracket and hang it on a wire holder.
- When attaching the screws **E'**, attach the cable holders with them.

### 3.1.6 Removing the main board (See Figs.6 and 7)

- Remove the front panel assembly, bottom cover, front chassis assembly and side heat sink.

#### Reference:

Remove the rear bracket as required.

- From the back side of the main body, remove the three screws **H** attaching the main board. (See Fig.6.)
- From the bottom side of the main body, remove the three screws **J** attaching the main board. (See Fig.7.)
- Disconnect the connector [CN961](#) on the main board from the DVD mechanism assembly and take out the main board from the main body. (See Fig.7.)

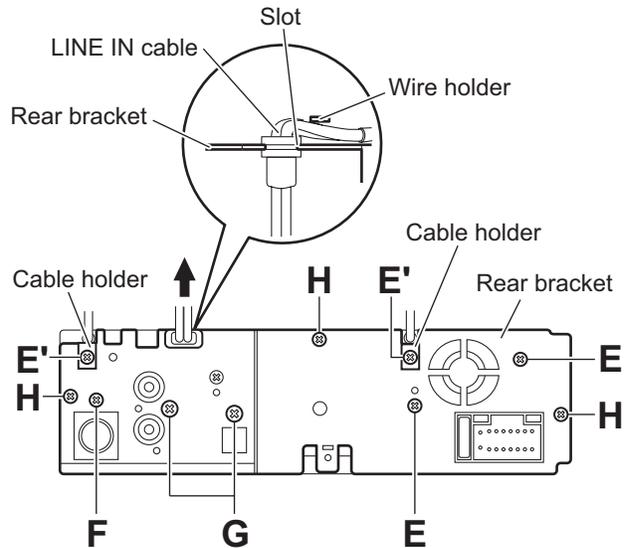


Fig.6

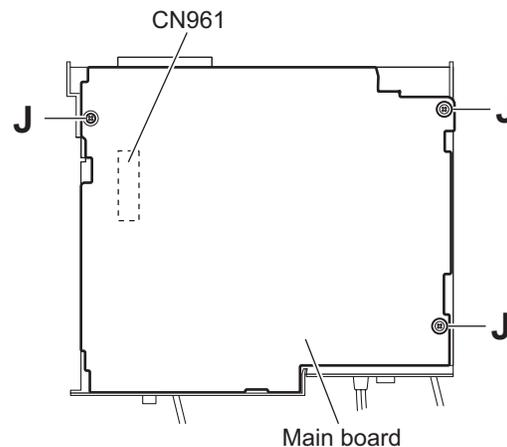


Fig.7

### 3.1.7 Removing the DVD mechanism assembly (See Fig.8)

- Remove the front panel assembly, bottom cover, front chassis assembly, side heat sink and main board.
  - From the inside of the top chassis, remove the three screws **K** attaching the DVD mechanism assembly.
  - Take out the DVD mechanism assembly from the top chassis.

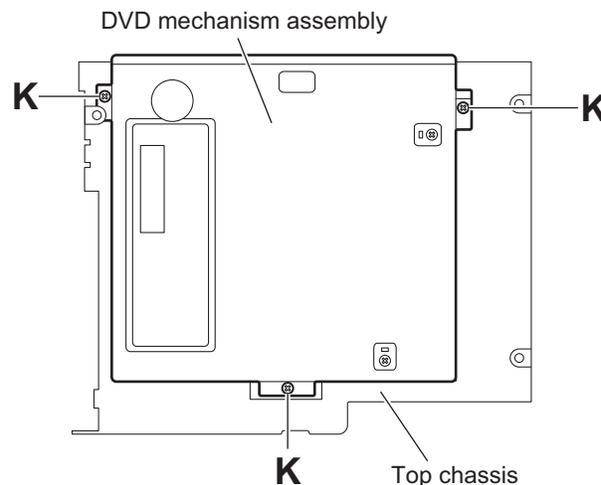


Fig.8

### 3.1.8 Removing the main sub board (See Figs.9 to 11)

- Remove the front panel assembly, bottom cover, front chassis assembly, side heat sink, main board and DVD mechanism assembly.

- From the top side of the DVD mechanism assembly, remove the two screws **L** attaching the dust cover. (See Fig.9.)
- Remove the dust cover from the DVD mechanism assembly. (See Fig.9.)

**Reference:**

When attaching the dust cover, align the joints **f** in the holes of the dust cover before attaching the screws **L**. (See Fig.9.)

- Release the lock of the connector **CN962** on the main sub board and disconnect the card wire. (See Fig.10.)
- Bend the joint **g** in the direction of the arrow. (See Fig.10.)
- Remove the two screws **M** attaching the main sub board and remove the main sub board from the DVD mechanism assembly. (See Fig.10.)

**Reference:**

- When attaching the main sub board, align the joints **h** in the holes of the main sub board before attaching the screws **M**. (See Fig.10.)
- When the resolution of DVD mechanism assembly is done sequentially, remove the two screws **N** attaching the support bracket. (See Fig.11.)
- Remove the card wire from the connector **CN401** as required. (See Fig.11.)

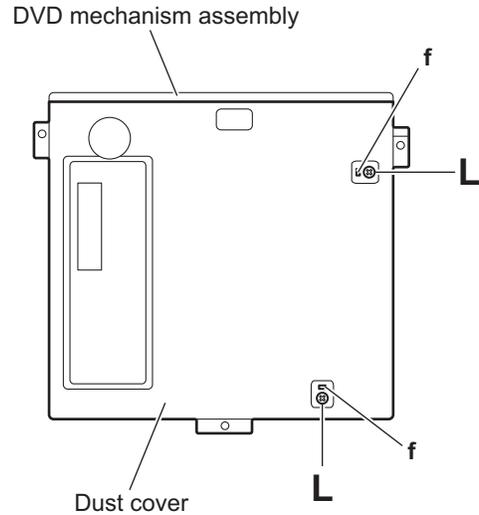


Fig.9

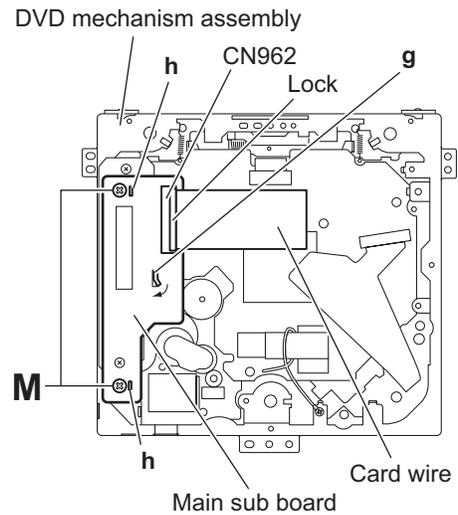


Fig.10

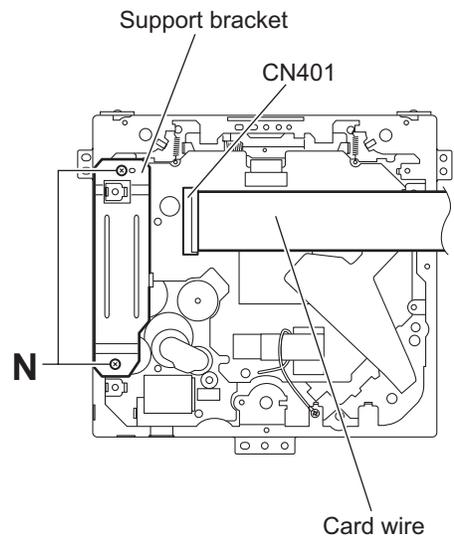


Fig.11

### 3.1.9 Removing the switch board (See Figs. 12 to 14)

- Remove the front panel assembly.
  - From the back side of the front panel assembly, remove the five screws **P** attaching the rear cover. (See Fig.12.)
  - Release the ten joints **i** attaching the rear cover to the front panel assembly. (See Fig.13.)
  - Take out the switch board while lifting the switch board from the front panel assembly little by little. (See Fig.14.)

#### Reference:

Remove the volume knob from the front side of the front panel assembly at the same time.

#### Note:

Do not lose the compression springs when removing the switch board. (See Fig.14.)

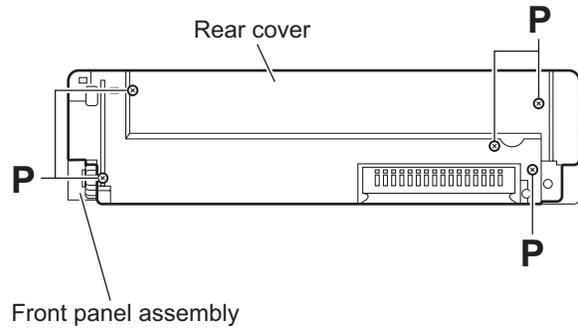


Fig.12

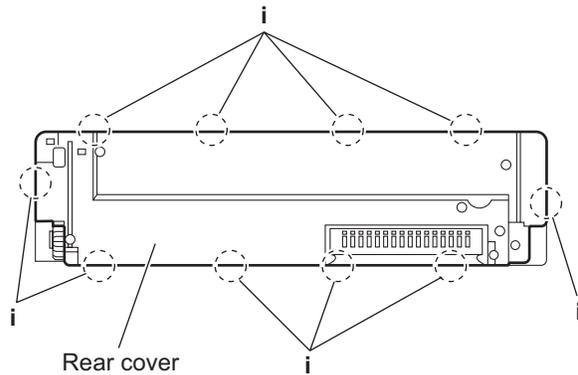


Fig.13

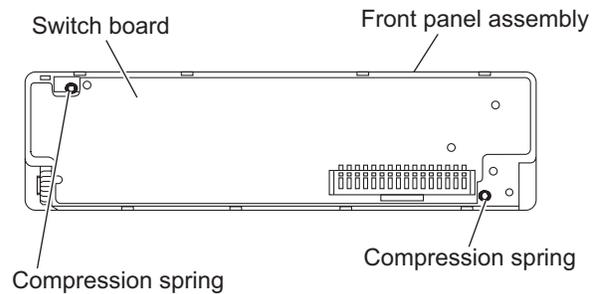


Fig.14

## 3.2 DVD mechanism assembly

### 3.2.1 Removing the mechanism control board (See Fig.1)

#### Caution:

Before disconnecting the flexible wire extending from the DVD pickup, solder the short-circuit point on the flexible wire using a grounding soldering iron. If you do not follow this instruction, the DVD pickup may be damaged.

- (1) Turn over the body, and solder the short-circuit points on the flexible wire extending from the DVD pickup.
- (2) Disconnect the flexible wire from connector [CN101](#) on the mechanism control board.
- (3) Disconnect the card wire from connector [CN201](#) on the mechanism control board.
- (4) Disconnect the flexible wire from connector [CN202](#) on the mechanism control board.
- (5) Unsolder two soldered points **a** on the mechanism control board and remove the wire extending from the feed motor.
- (6) Remove the screw **A** attaching the lug wire.
- (7) Remove the two screws **B** and screw **C** attaching the mechanism control board.

#### Caution:

- As the flexible wire to be connected to [CN101](#), make sure to attach it to the mechanism control board using a double tape.
- After reassembling, unsolder the short-circuit points.

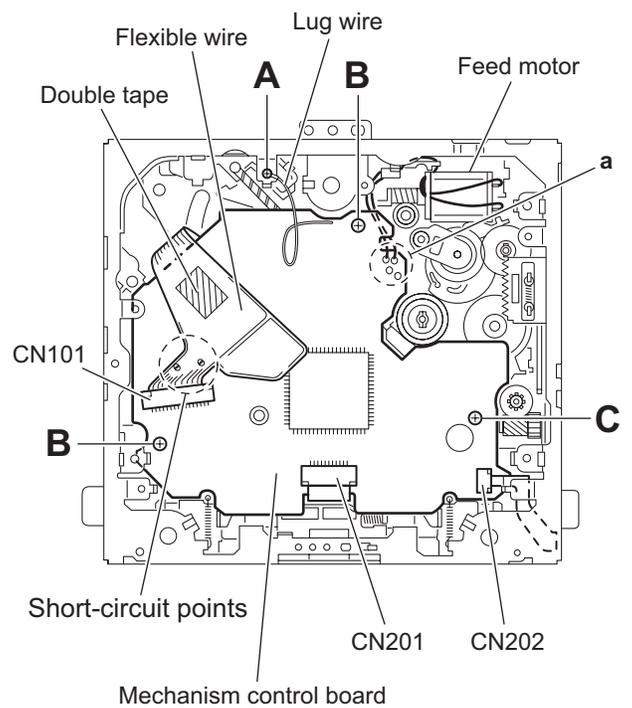


Fig.1

### 3.2.2 Removing the top cover (See Fig.2)

- (1) Remove the two screws **D** attaching the top cover on the back of the body.
- (2) Remove the top cover upward.

#### Reference:

When reassembling, set part **b** of the top cover under the bending part **c** of the chassis frame.

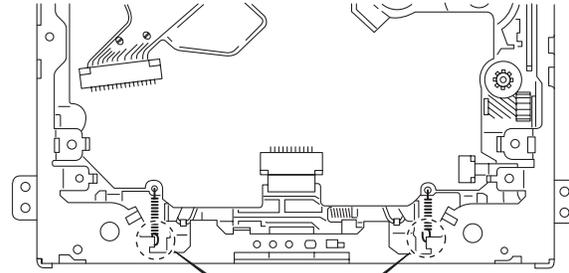
### 3.2.3 Removing the mechanism section (See Fig.2 to 4)

- Remove the top cover.
  - (1) From the bottom of the body, remove the screw **E** attaching the lug wire. (See Fig.2.)
  - (2) Remove the two screws **F** attaching the right and left stoppers on the front side. (See Fig.2.)
  - (3) Remove the two floating springs on the bottom of the body. (See Fig.3.)
  - (4) Move the mechanism section upward and remove from the chassis frame.
 

The three damper springs come off from the dampers.  
(See Fig.4.)

#### Caution:

- When reassembling, reattach the damper spring to the damper respectively and insert the three shafts on the bottom of the mechanism to the dampers.
- Before inserting the shaft to the dampers, apply IPA to the hole of damper.



Floating spring

Fig.3

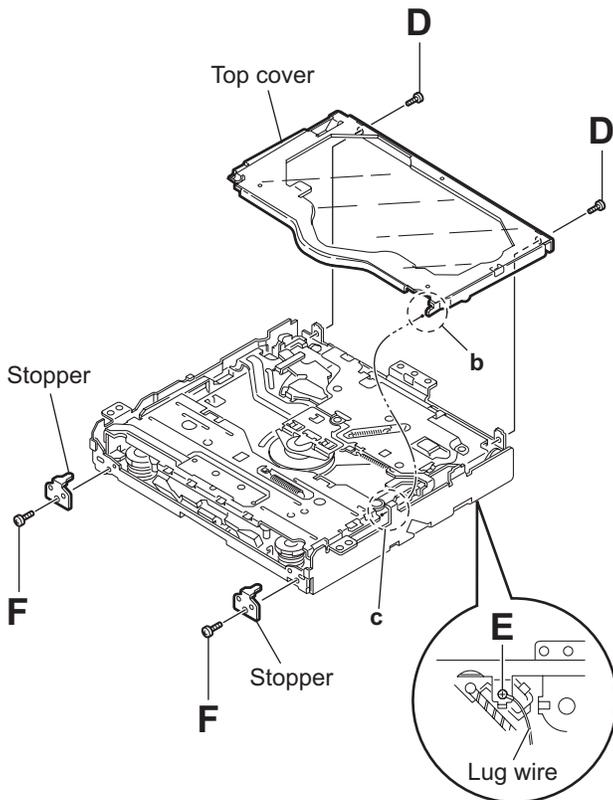


Fig.2

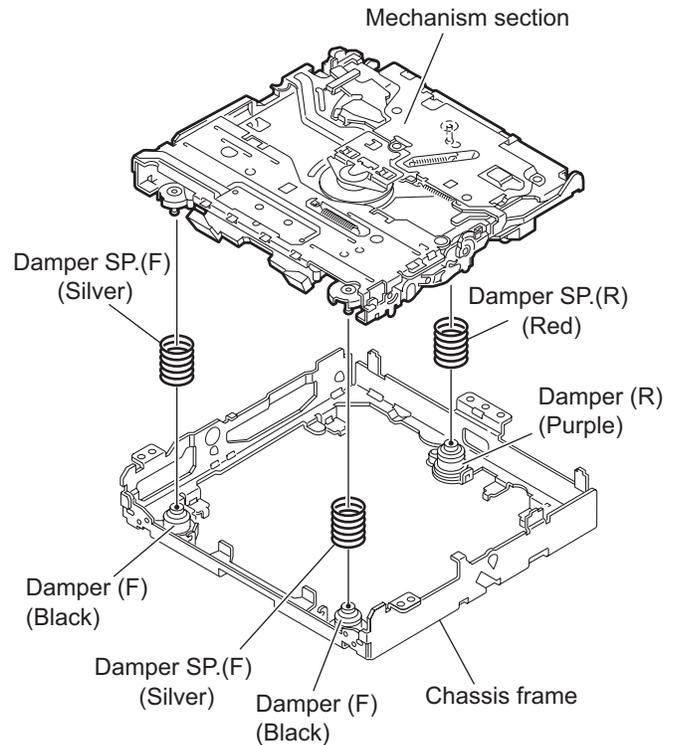


Fig.4

**3.2.4 Removing the clamber unit**  
(See Fig.5 to 7)

- Remove the top cover and the mechanism section.
  - Remove the clamber2 spring on the bottom of the mechanism section. (See Figs.5.and 6.)
  - Release the part **d** of the clamber spring from the bending part of the chassis base assembly. (See Fig.7.)
  - Move the clamber unit in the direction of the arrow and turn. Release the two joints **e** and **f**, then remove the clamber unit upward. (See Fig.6.)

**3.2.5 Reattaching the clamber unit**  
(See Fig.5 to 9)

- Attach the clamber spring to the clamber unit. (See Fig.8.)
- Move the clamber unit to set the side joints **e** and **f** to each boss of the chassis base assembly. Make sure that part **g** is inserted to the notch of the chassis base assembly. (See Figs.5 and 9.)
- Move the part **d** of the clamber spring to the outside of the bending part of the chassis base assembly. (See Fig.7.)
- Attach the clamber2 spring to the chassis base assembly. (See Figs.5 and 6.)

**Caution:**

When reattaching, temporarily hook the end of the clamber spring as shown in the figure to make the work easy. (See Fig.8.)

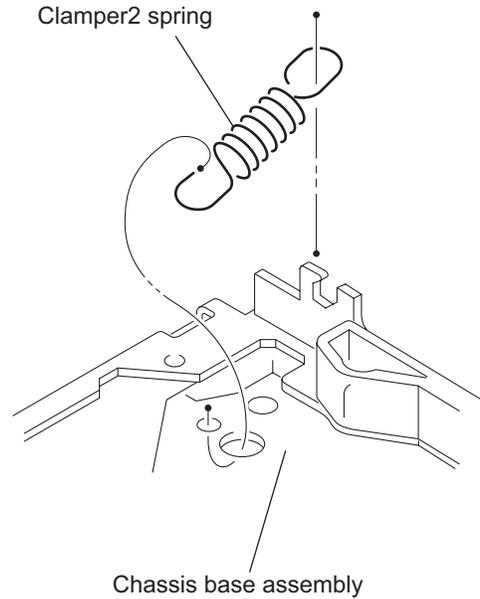


Fig.6

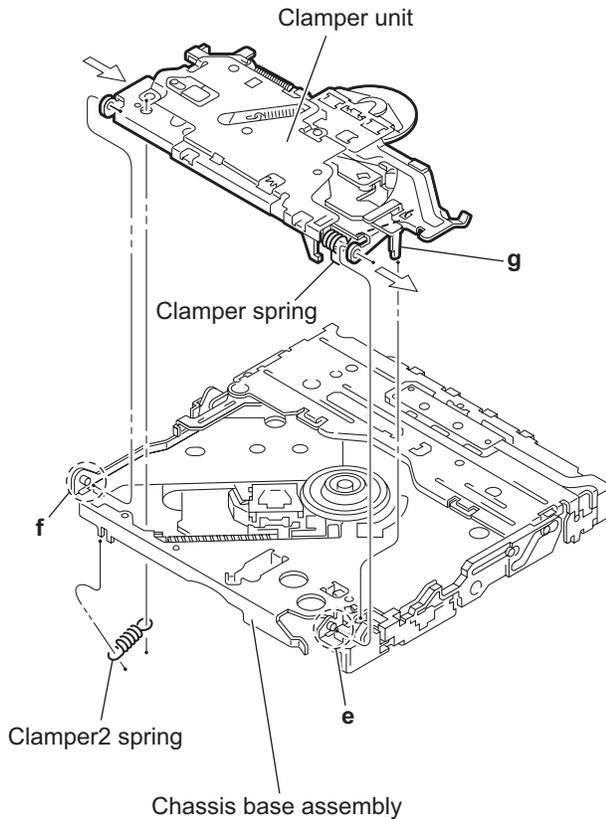


Fig.5

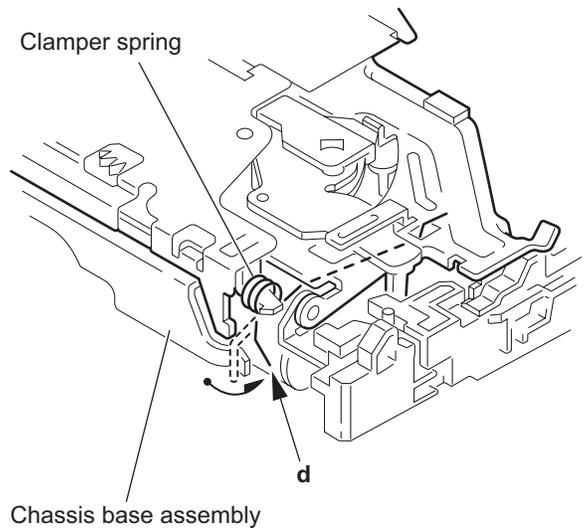


Fig.7

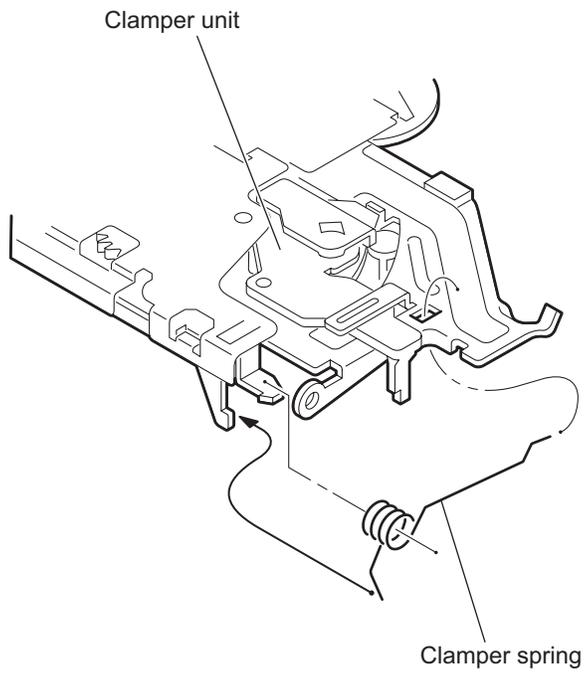


Fig.8

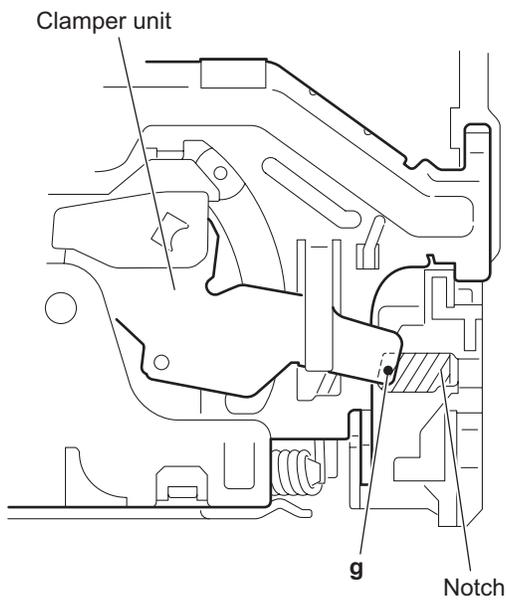


Fig.9

### 3.2.6 Removing the front unit (See Fig.10 to 12)

- Remove the top cover and the mechanism section.
  - (1) Disconnect the flexible wire from connector [CN202](#) on the mechanism control board at the bottom of the body. (See Fig.10.)
  - (2) Remove the screw **G** attaching the front unit on the top of the body. (See Fig.11.)
  - (3) Move the front unit toward the front to release joint **h**, and release two joints **i** and **j** on the right side of the chassis base assembly. Then remove the front unit upward. (See Figs.11 and 12.)
  - (4) Remove the two screws **H** attaching the switch board. (See Fig.12.)

#### Reference:

You can remove the switch board only without removing the front unit.

#### Caution:

When reassembling, attach the flexible wire extending from the switch board using the double tape. (See Figs.10 and 12.)

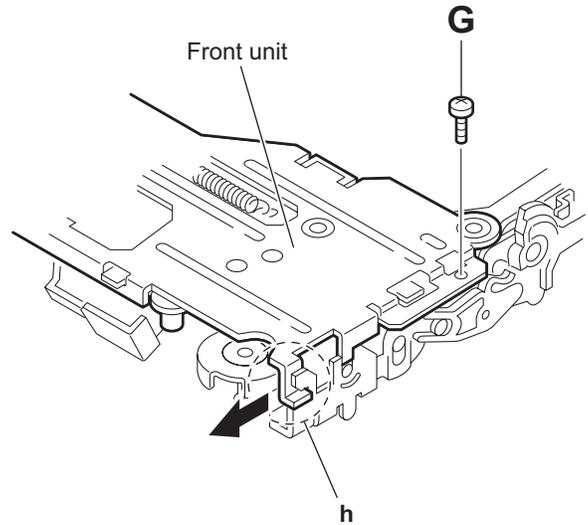


Fig.11

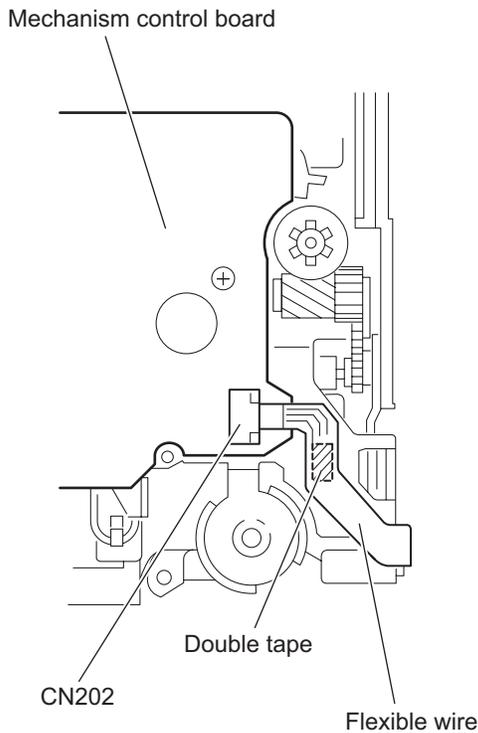


Fig.10

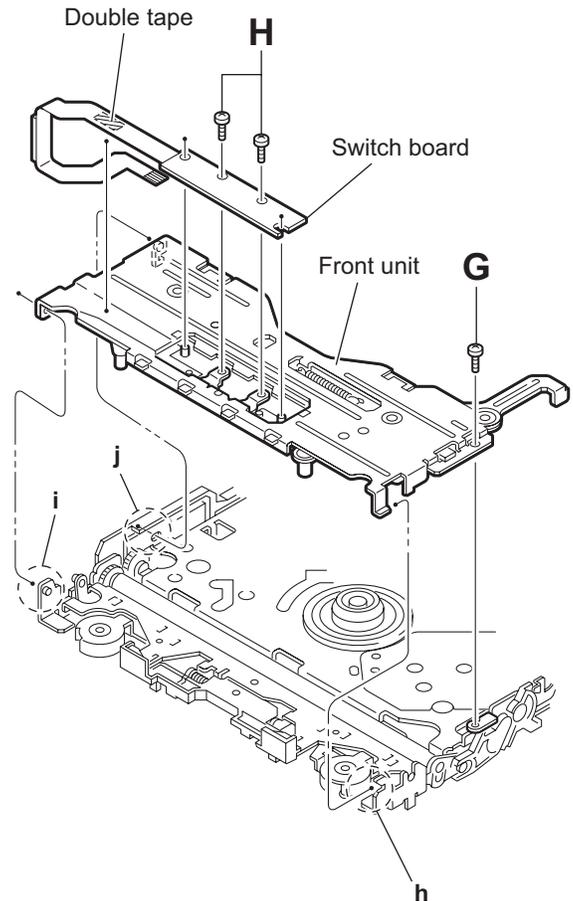


Fig.12

### 3.2.7 Removing the loading arm assembly (See Fig.13 , 14)

- Remove the top cover, the mechanism section and the front unit.
  - (1) From the top of the body, move the loading arm assembly from the front side upward, and release the bosses from the right and left joints **k** and **m** of the chassis base assembly.
  - (2) Release the boss from notch **n** of the connect arm on the right side of the body, and release the boss from notch **p** of the side cam assembly on the left side.

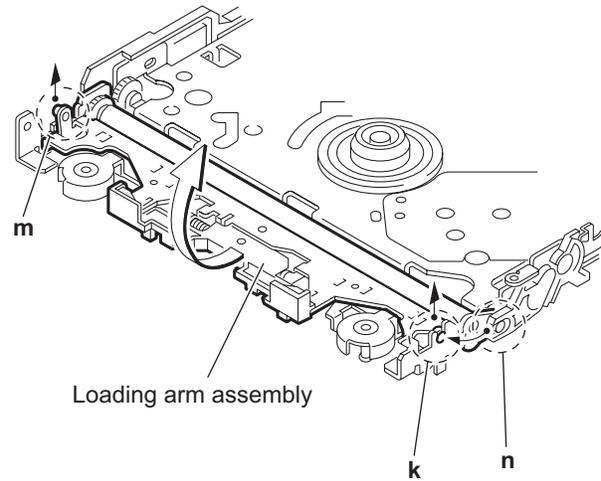


Fig.13

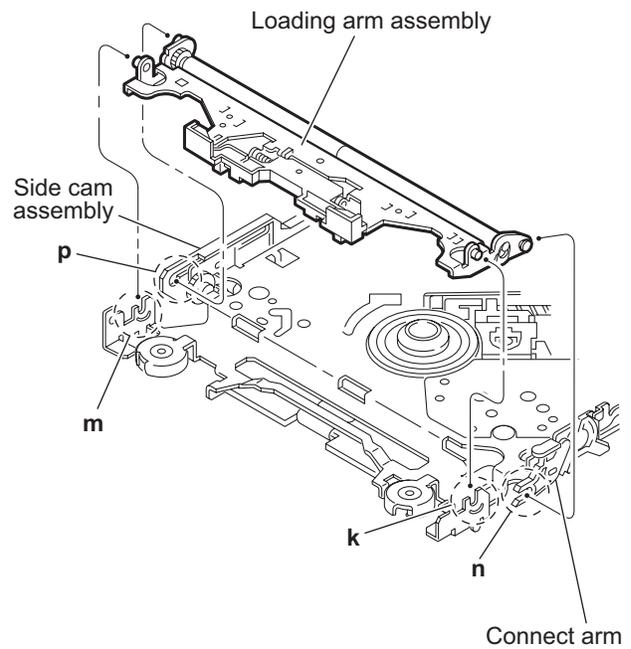


Fig.14

### 3.2.8 Removing the rod (L)(R)/roller assembly (See Fig.15 and 16)

- Remove the top cover, the mechanism section, the front unit and the loading arm assembly.
  - Release the rod (L) and (R) from the joints **q** at the bottom of the loading arm assembly (See Fig.15.)
  - Remove the roller assembly from the loading arm assembly. (See Fig.16.)
  - Remove the two collars and washer from the roller assembly. (See Fig.16.)

**Caution:**

After attaching the loading arm assembly to the roller assembly, attach the rod (L) and (R). Attach the rods to the right and left collars of the roller. (See Fig.15.)

When reattaching the rod (L) and (R) to the loading arm assembly, engage each joint as shown in Fig.15. As joints **q** of the rod (L), let the rod through **q** before reattaching it.

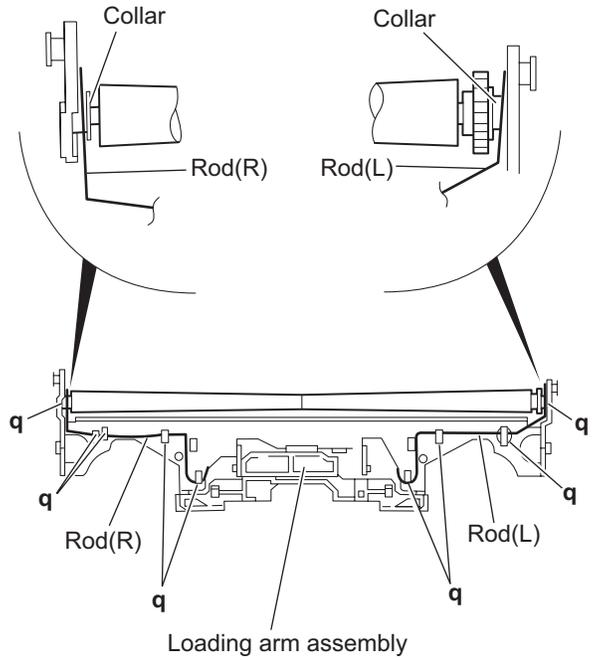


Fig.15

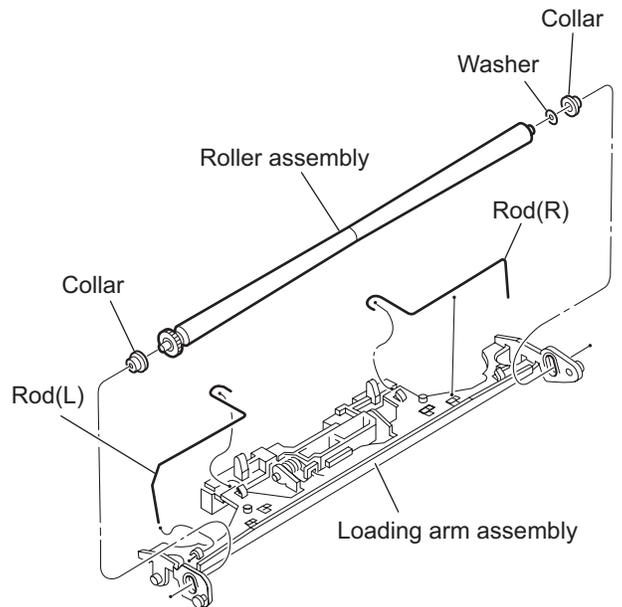


Fig.16

### 3.2.9 Removing the DVD pickup assembly (See Fig.17 to 19)

- Remove the mechanism control board.
  - (1) From the bottom of the body, turn the feed gear in the direction of the arrow to move the DVD pickup outwards. (See Fig.17.)
  - (2) Remove the screw **J** attaching the thrust spring. (See Fig.17.)
  - (3) Remove the DVD pickup assembly upward on the L.S.gear side and release from sub shaft at joint **r**. Move the lead screw of the DVD pickup assembly in the direction of the arrow to release from joint **s**. (See Fig.18.)

**Caution:**

- When releasing the lead screw at joint **s**, the L.S.collar comes off at the end of the lead screw. When reassembling, reattach the L.S.collar to the lead screw and engage joint **s**. (See Fig.18.)
  - When reattaching the L.S.collar, reattach it to the point **s** of the lead screw, and to the rod (M). Make sure that the L.S.collar is set on the rod (M) spring. (See Fig.18.)
- (4) Remove the screw **K** attaching the rack spring/ rack plate on the DVD pickup. (See Fig.19.)
  - (5) Pull out the lead screw. (See Fig.19.)

**Caution:**

Perform adjustment after replacing the pickup.

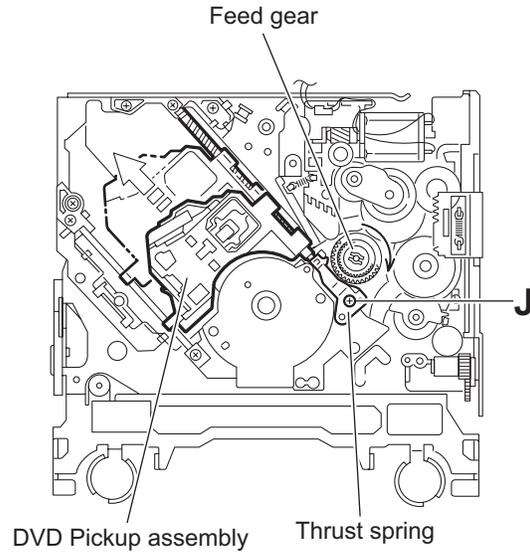


Fig.17

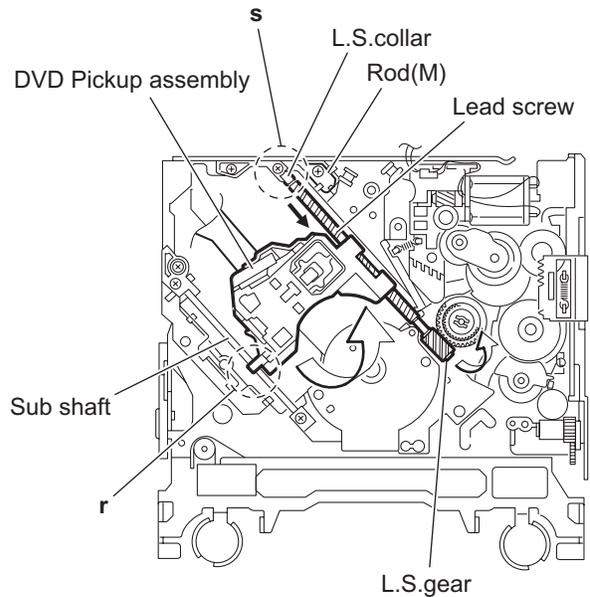


Fig.18

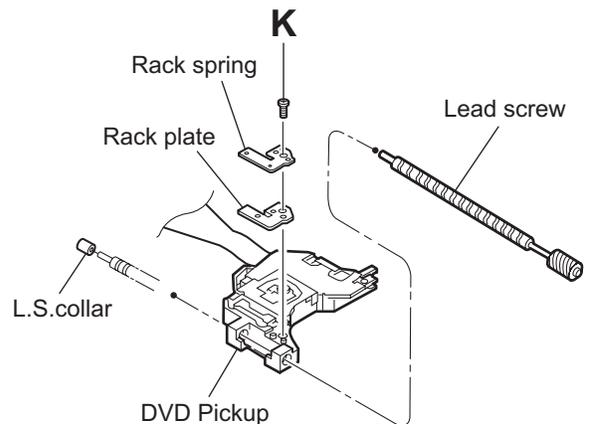


Fig.19

### 3.2.10 Removing the spindle motor (See Fig.20)

- Remove the mechanism control board.  
Remove the two screws **L** attaching the spindle motor on the bottom of the body.

**Caution:**

Perform adjustment when reattaching the spindle motor.

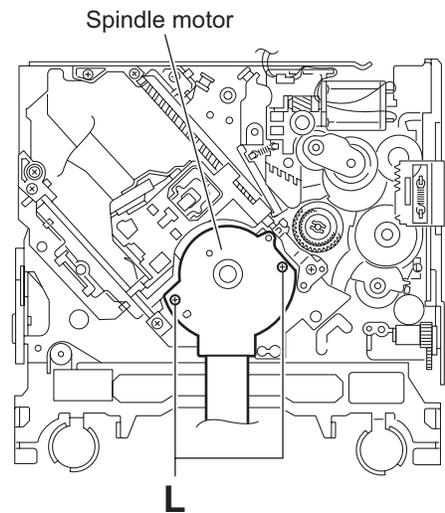


Fig.20

### 3.2.11 Removing the feed motor assembly (See Fig.21 and 22)

- Remove the mechanism control board.
  - Remove the feed TRI. spring on the bottom of the body.  
(See Fig.21.)
  - Remove the two screws **M** attaching the feed motor assembly. (See Fig.21.)
  - Remove the slit washer from the motor H. assembly and pull out the worm wheel. (See Fig.22.)

Remove the two screws **N** attaching the feed motor. (See Fig.22.)

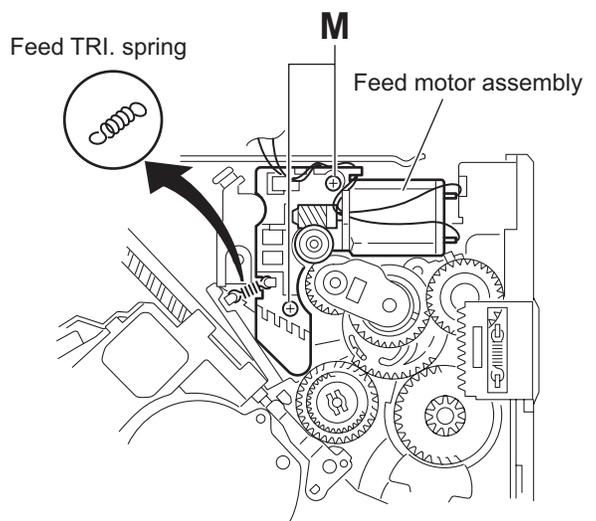


Fig.21

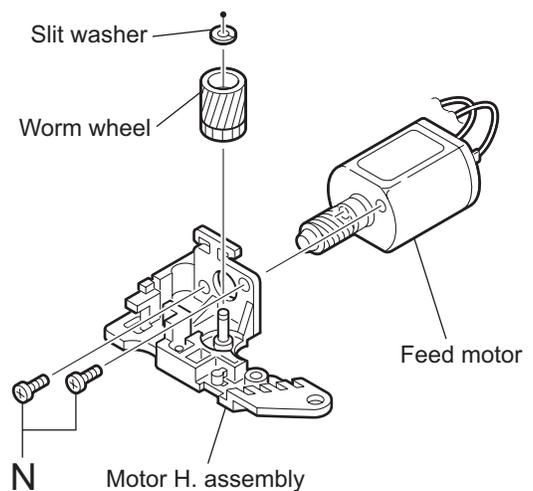


Fig.22

## SECTION 4 ADJUSTMENT

### 4.1 Test instruments required for adjustment

- (1) Digital oscilloscope (100MHz)
- (2) Jitter meter
- (3) Digital tester
- (4) Electric voltmeter
- (5) Tracking offset meter
- (6) Test Disc : VT501 or VT502
- (7) Extension studs : STDV001-3P
- (8) Extension cable : EXTDV002-30P

### 4.2 Standard measuring conditions

|                      |                           |
|----------------------|---------------------------|
| Power supply voltage | DC14.4V(11 to 16V)        |
| Load impedance       | 4Ω(2 Speakers connection) |
| Line Output          | 20KΩ                      |

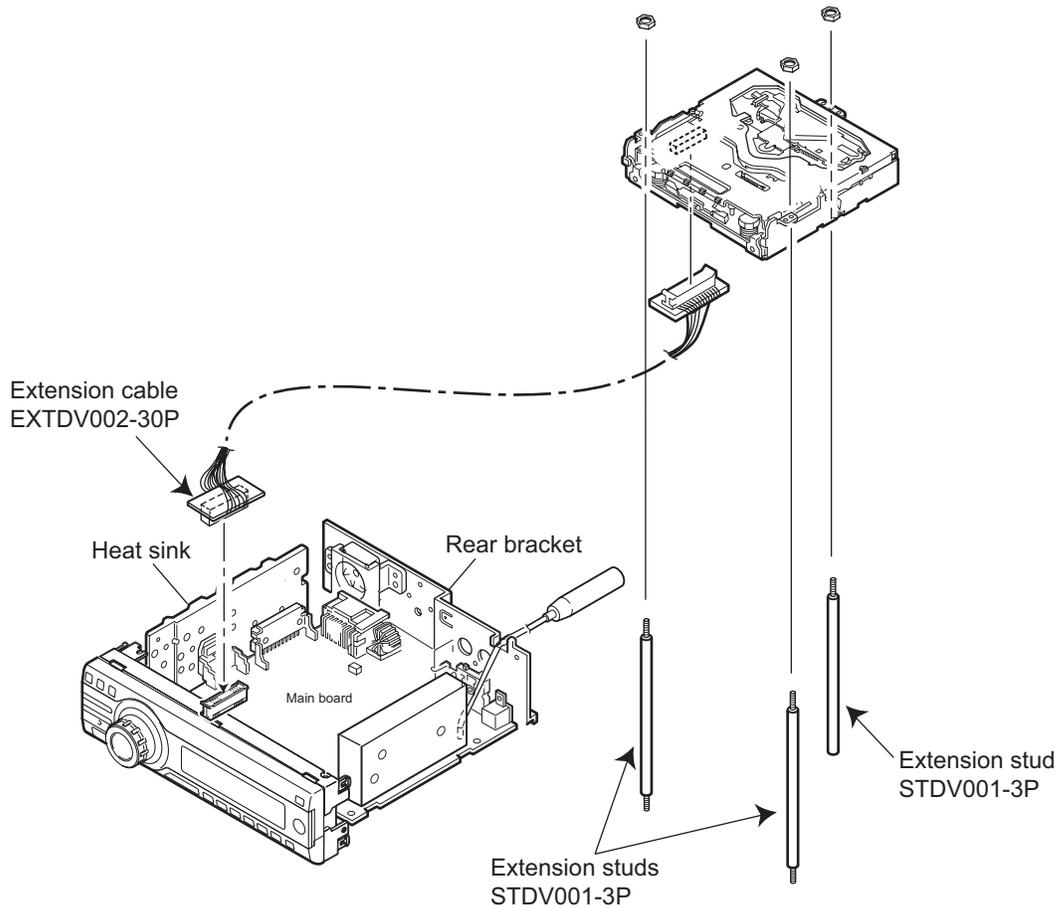
#### Caution:

Be sure to attach the heat sink and rear bracket onto the power amplifier IC and regulator IC respectively, before supply the power. If voltage is applied without attaching these parts, the power amplifier IC and regulator IC will be destroyed by heat.

### 4.3 Connection method

#### Connection procedure

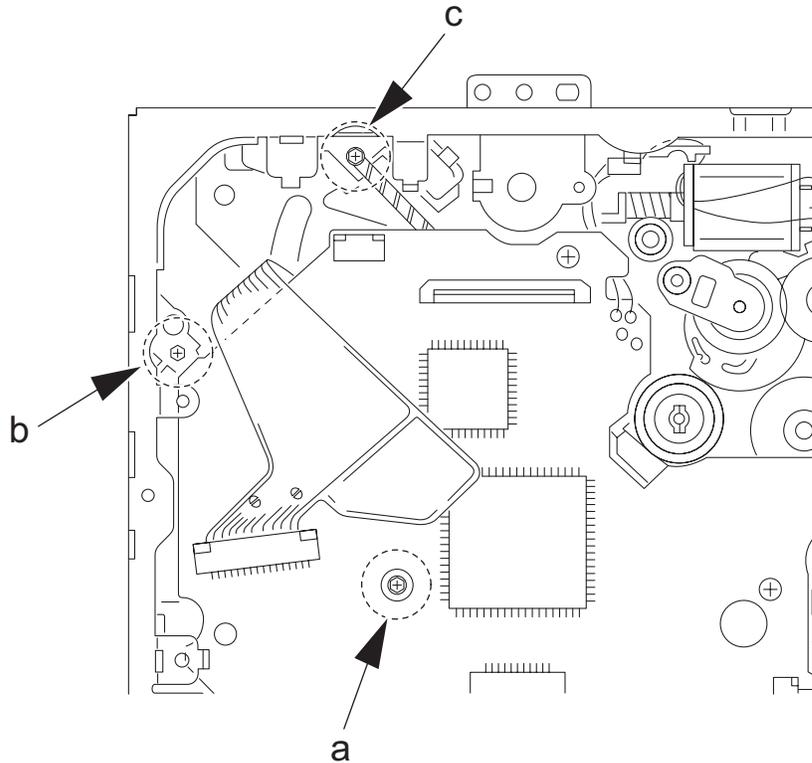
- (1) Attach the front chassis assembly to the main board.
- (2) Connect the front panel assembly to the main board.
- (3) Attach the heat sink and rear bracket to the main board.
- (4) Attach the extension studs to the DVD mechanism assembly.
- (5) Connect the DVD mechanism assembly and the main board with a extension cable.



After replacing the pickup, set the unit in the service mode to display a jitter value on the LCD. Confirm that the jitter value measured with a jitter meter is within 12% of the jitter value displayed on the LCD. If it is within 12%, then adjustment is not necessary. Please note that a jitter value displayed on the LCD is hex data. Refer to the corresponding decimal notation value using the Jitter Conversion Table and confirm it with the measured value.

Fix the screws "a", "b" and "c" with screw lock paint.

If the measured jitter value is outside the 12% tolerance range, perform the following adjustments.



Jitter value adjustment procedure (Pickup horizontal level adjustment relative to the DVD recording surface)  
(For the adjustment tool use a 3 mm wrench and not a screwdriver, this procedure will make the adjustment easier.)

3 mm wrench



- (1) Set the unit to the service mode and display a jitter value (hex data) on the LCD.
- (2) Turn each of the screws **a**, **b** and **c**, by a half-turn per step, in the direction that reduces the jitter value in order to minimize it.  
(Do not turn a screw more than a half turn at a time, but adjust the screws in the cycle of **a** → **b** → **c** → **d** → **a**.)
- (3) After completing the adjustment, secure the screws with screw lock paint.

#### 4.4 Jitter value conversion table

Load the test DVD and set the unit to the service mode. A jitter value converted to the hex value is displayed on the LCD. Refer to the corresponding decimal notation value shown in the following Jitter Conversion Table.

The adjustment is OK if the jitter value measured with a jitter meter is within 12% of the jitter value displayed on the LCD.

If the measured jitter value is outside the 12% tolerance range, adjust it to minimize the difference between the measured value and the displayed value.

| Indicated on the LCD | JIT OUT | Jitter value (%) |      | Indicated on the LCD | JIT OUT | Jitter value (%) |      | Indicated on the LCD | JIT OUT | Jitter value (%) |      |
|----------------------|---------|------------------|------|----------------------|---------|------------------|------|----------------------|---------|------------------|------|
| 20A7                 | 1957.98 | 4.7              | 3818 | 18C2                 | 1856.9  | 8.5              | 3A11 | 10DC                 | 1755.82 | 12.3             | 3C0A |
| 2072                 | 1955.32 | 4.8              | 3825 | 188C                 | 1854.24 | 8.6              | 3A1E | 10A7                 | 1753.16 | 12.4             | 3C18 |
| 203D                 | 1952.66 | 4.9              | 3832 | 1857                 | 1851.58 | 8.7              | 3A2C | 1072                 | 1750.5  | 12.5             | 3C25 |
| 2008                 | 1950    | 5.0              | 3840 | 1822                 | 1848.92 | 8.8              | 3A39 | 103C                 | 1747.84 | 12.6             | 3C32 |
| 1FD2                 | 1947.34 | 5.1              | 384D | 17ED                 | 1846.26 | 8.9              | 3A46 | 1007                 | 1745.18 | 12.7             | 3C40 |
| 1F9D                 | 1944.68 | 5.2              | 385A | 17B8                 | 1843.6  | 9.0              | 3A54 | FD2                  | 1742.52 | 12.8             | 3C4D |
| 1F68                 | 1942.02 | 5.3              | 3867 | 1782                 | 1840.94 | 9.1              | 3A61 | F9D                  | 1739.86 | 12.9             | 3C5A |
| 1F33                 | 1939.36 | 5.4              | 3875 | 174D                 | 1838.28 | 9.2              | 3A6E | F68                  | 1737.2  | 13.0             | 3C68 |
| 1EFE                 | 1936.7  | 5.5              | 3882 | 1718                 | 1835.62 | 9.3              | 3A7B | F32                  | 1734.54 | 13.1             | 3C75 |
| 1EC8                 | 1934.04 | 5.6              | 388F | 16E3                 | 1832.96 | 9.4              | 3A89 | EFD                  | 1731.88 | 13.2             | 3C82 |
| 1E93                 | 1931.38 | 5.7              | 389D | 16AE                 | 1830.3  | 9.5              | 3A96 | EC8                  | 1729.22 | 13.3             | 3C8F |
| 1E5E                 | 1928.72 | 5.8              | 38AA | 1678                 | 1827.64 | 9.6              | 3AA3 | E93                  | 1726.56 | 13.4             | 3C9D |
| 1E29                 | 1926.06 | 5.9              | 38B7 | 1643                 | 1824.98 | 9.7              | 3AB1 | E5E                  | 1723.9  | 13.5             | 3CAA |
| 1DF4                 | 1923.4  | 6.0              | 38C5 | 160E                 | 1822.32 | 9.8              | 3ABE | E28                  | 1721.24 | 13.6             | 3CB7 |
| 1DBE                 | 1920.74 | 6.1              | 38D2 | 15D9                 | 1819.66 | 9.9              | 3ACB | DF3                  | 1718.58 | 13.7             | 3CC5 |
| 1D89                 | 1918.08 | 6.2              | 38DF | 15A4                 | 1817    | 10.0             | 3AD9 | DBE                  | 1715.92 | 13.8             | 3CD2 |
| 1D54                 | 1915.42 | 6.3              | 38EC | 156E                 | 1814.34 | 10.1             | 3AE6 | D89                  | 1713.26 | 13.9             | 3CDF |
| 1D1F                 | 1912.76 | 6.4              | 38FA | 1539                 | 1811.68 | 10.2             | 3AF3 | D54                  | 1710.6  | 14.0             | 3CED |
| 1CEA                 | 1910.1  | 6.5              | 3907 | 1504                 | 1809.02 | 10.3             | 3B00 | D1E                  | 1707.94 | 14.1             | 3CFA |
| 1CB4                 | 1907.44 | 6.6              | 3914 | 14CF                 | 1806.36 | 10.4             | 3B0E | CE9                  | 1705.28 | 14.2             | 3D07 |
| 1C7F                 | 1904.78 | 6.7              | 3922 | 149A                 | 1803.7  | 10.5             | 3B1B | CB4                  | 1702.62 | 14.3             | 3D14 |
| 1C4A                 | 1902.12 | 6.8              | 392F | 1464                 | 1801.04 | 10.6             | 3B28 | C7F                  | 1699.96 | 14.4             | 3D22 |
| 1C15                 | 1899.46 | 6.9              | 393C | 142F                 | 1798.38 | 10.7             | 3B36 | C4A                  | 1697.3  | 14.5             | 3D2F |
| 1BE0                 | 1896.8  | 7.0              | 394A | 13FA                 | 1795.72 | 10.8             | 3B43 | C14                  | 1694.64 | 14.6             | 3D3C |
| 1BAA                 | 1894.14 | 7.1              | 3957 | 13C5                 | 1793.06 | 10.9             | 3B50 | BDF                  | 1691.98 | 14.7             | 3D4A |
| 1B75                 | 1891.48 | 7.2              | 3964 | 1390                 | 1790.4  | 11.0             | 3B5E | BAA                  | 1689.32 | 14.8             | 3D57 |
| 1B40                 | 1888.82 | 7.3              | 3971 | 135A                 | 1787.74 | 11.1             | 3B6B | B75                  | 1686.66 | 14.9             | 3D64 |
| 1B0B                 | 1886.16 | 7.4              | 397F | 1325                 | 1785.08 | 11.2             | 3B78 | B40                  | 1684    | 15.0             | 3D72 |
| 1AD6                 | 1883.5  | 7.5              | 398C | 12F0                 | 1782.42 | 11.3             | 3B85 | B0A                  | 1681.34 | 15.1             | 3D7F |
| 1AA0                 | 1880.84 | 7.6              | 3999 | 12BB                 | 1779.76 | 11.4             | 3B93 | AD5                  | 1678.68 | 15.2             | 3D8C |
| 1A6B                 | 1878.18 | 7.7              | 39A7 | 1286                 | 1777.1  | 11.5             | 3BA0 | AA0                  | 1676.02 | 15.3             | 3D99 |
| 1A36                 | 1875.52 | 7.8              | 39B4 | 1250                 | 1774.44 | 11.6             | 3BAD | A6B                  | 1673.36 | 15.4             | 3DA7 |
| 1A01                 | 1872.86 | 7.9              | 39C1 | 121B                 | 1771.78 | 11.7             | 3BBB | A36                  | 1670.7  | 15.5             | 3DB4 |
| 19CC                 | 1870.2  | 8.0              | 39CF | 11E6                 | 1769.12 | 11.8             | 3BC8 | A00                  | 1668.04 | 15.6             | 3DC1 |
| 1996                 | 1867.54 | 8.1              | 39DC | 11B1                 | 1766.46 | 11.9             | 3BD5 | 9CB                  | 1665.38 | 15.7             | 3DCF |
| 1961                 | 1864.88 | 8.2              | 39E9 | 117C                 | 1763.8  | 12.0             | 3BE3 | 996                  | 1662.72 | 15.8             | 3DDC |
| 192C                 | 1862.22 | 8.3              | 39F6 | 1146                 | 1761.14 | 12.1             | 3BF0 | 961                  | 1660.06 | 15.9             | 3DE9 |
| 18F7                 | 1859.56 | 8.4              | 3A04 | 1111                 | 1758.48 | 12.2             | 3BFD | 92C                  | 1657.4  | 16.0             | 3DF7 |

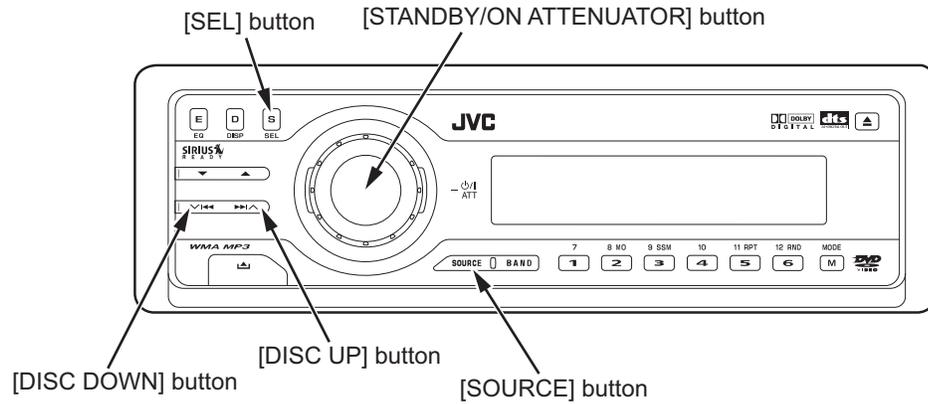
## 4.5 Service mode

### 4.5.1 Standard input/output conditions

Power supply voltage DC14.4V(11 to 16V)  
Load impedance 4Ω(2 Speakers connection)  
Line Output 20KΩ

### 4.5.2 Service mode setting procedure

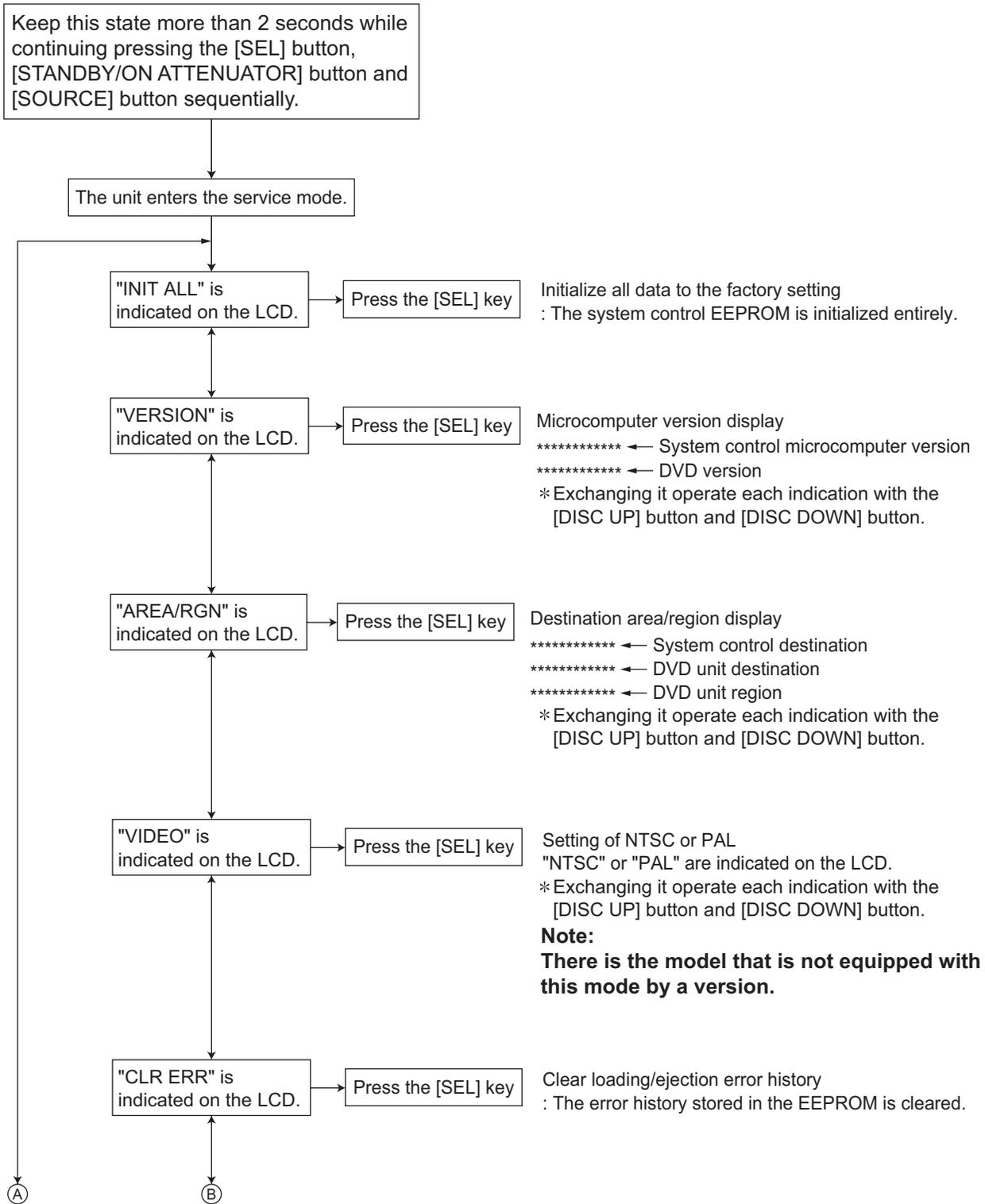
(The DVD does not need to be loaded before starting the following procedure.)



- (1) Press a [STANDBY/ON ATTENUATOR] button on a main unit and switch it on.
- (2) Keep this state more than 2 seconds while continuing pressing the [SEL] button, [STANDBY/ON ATTENUATOR] button and [SOURCE] button sequentially.
- (3) This unit is set by a service mode.

\*Exchanging it operate a menu of a service mode with the [DISC UP] button and [DISC DOWN] button.  
Operate choice of a menu with a [SEL] button.

### 4.5.3 Operation procedures



A

B

"CD ERROR" is indicated on the LCD.

Press the [SEL] key

Read loading and ejection error history : The error history saved in the system control is read and displayed.

TOT-xxxx : Total error count.

Total error count (A figure between 0 and 9999 is displayed. 10000 or more is also displayed as 9999.)

Enyyzzzz : Latest three error codes.

Detailed error code Error code Counter

Onyyzzzz : First five error codes

Detailed error code Error code Counter

\* Exchanging it operate each indication with the [DISC UP] button and [DISC DOWN] button.

Error code (1 byte)

|            |  |
|------------|--|
| First byte | [01] Eject error<br>[09] Loading error |
|------------|--|

Detailed error codes (2 bytes)

\* Displayed with loading/ejection errors only.

|             |  |
|-------------|--|
| First byte  | Higher 4 bits . . . . Route No. (Process of error occurrence)<br>→ Refer to charts 1.1 and 1.2.<br>Lower 4 bits . . . . Error type<br>[1] Time out<br>[2] Switch status error<br>[3] Swinging error                            |
| Second byte | bit7 . . . . . Disc type (0: 12 cm. 1: 8 cm)<br>bit6,5 . . . . Fixed at 0<br>bit4 . . . . . SW1 status<br>bit3 . . . . . SW2 status<br>bit2 . . . . . SW3 status<br>bit1 . . . . . SW4 status<br>bit0 . . . . . REST SW status |

(Example) When a switch status error occurs during loading route 3 and the switch status is L/L/H/H/H (00111B = 07H), the error code and detailed error code become: [09 3207].

| Route No. (EJECT route No.) | SW1/2/3/4 | [Rest SW] | Loading               | Eject            | Reload          |
|-----------------------------|-----------|-----------|-----------------------|------------------|-----------------|
| -                           | 1,1,1,1   | [0]       | No Disc               | No Disc          | Disc push in    |
| 1(2)                        | 0,1,1,1   | [0]       | Disc insert detection | ↑                | Disc push in    |
| 1(2)                        | 0,0,1,1   | [0]       | ↓                     | Eject completion | ↙               |
| 2(2)                        | 0,0,0,1   | [0]       |                       | ↑                | Reload start    |
| 2(2)                        | 0,0,1,1   | [0]       |                       |                  | ↓               |
| 2(2)                        | 0,1,1,1   | [0]       |                       |                  |                 |
| 2(2)                        | 1,1,1,1   | [0]       |                       |                  |                 |
| 3(1)                        | 1,1,1,0   | [0]       |                       |                  |                 |
| 3(1)                        | 1,1,1,0   | [1]       | Load completion       | Eject start      | Load completion |

Chart 1.1 12cm Disc switch status transition

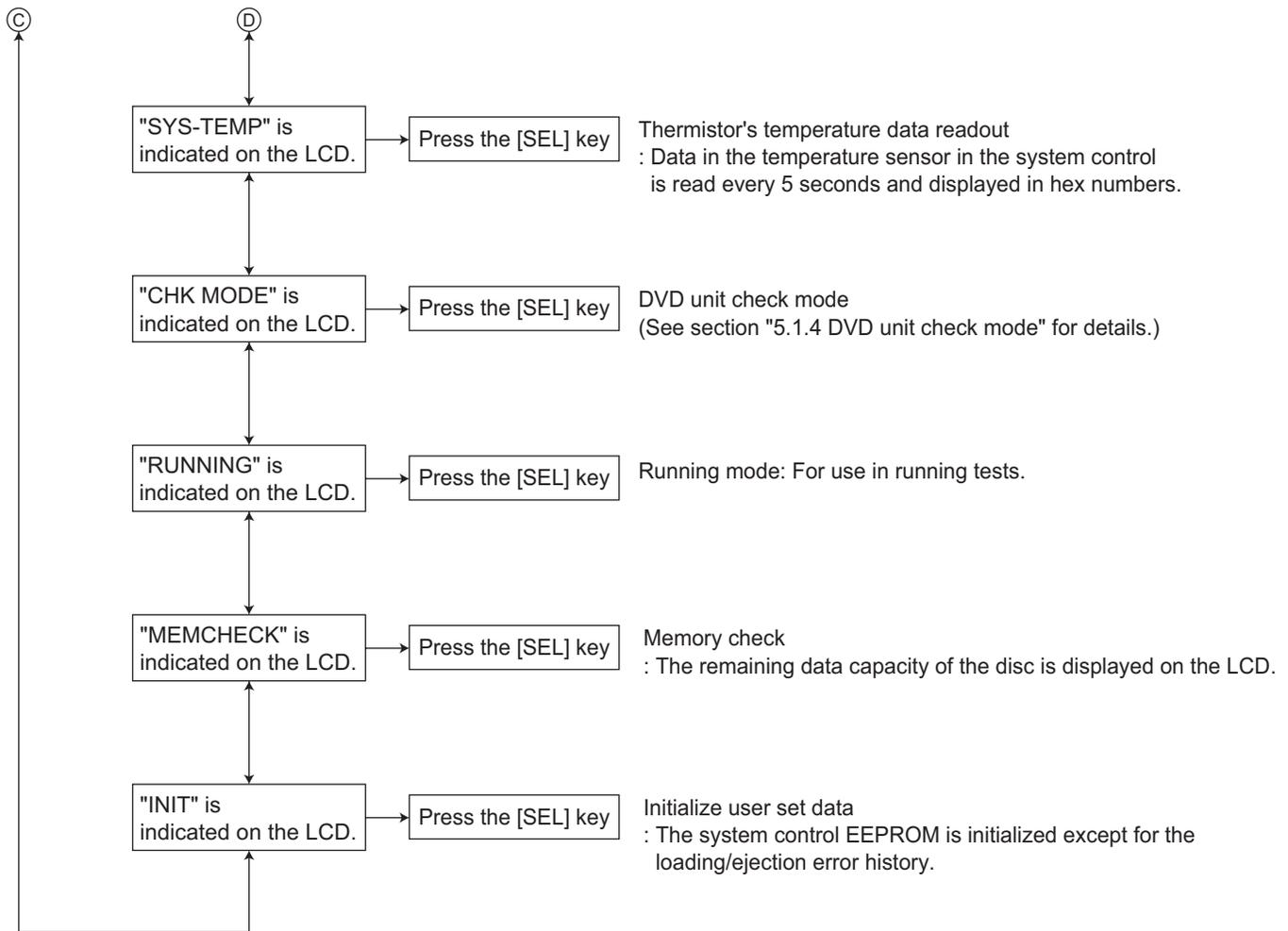
| Route No. (EJECT route No.) | SW1/2/3/4 | [Rest SW] | Loading*              | Eject            | Reload          |
|-----------------------------|-----------|-----------|-----------------------|------------------|-----------------|
| -                           | 1,1,1,1   | [0]       | No Disc               | No Disc          | Disc push in    |
| 1(2)                        | 0,1,1,1   | [0]       | Disc insert detection | ↑                | Disc push in    |
| 1(2)                        | 0,0,1,1   | [0]       | ↓                     | Eject completion | ↙               |
| 2(2)                        | 0,0,0,1   | [0]       |                       | ↑                | Reload start    |
| 2(2)                        | 0,0,1,1   | [0]       |                       |                  | ↓               |
| 2(2)                        | 0,1,1,1   | [0]       |                       |                  |                 |
| 2(2)                        | 1,1,1,1   | [0]       |                       |                  |                 |
| 3(1)                        | 1,1,1,0   | [0]       |                       |                  |                 |
| 3(1)                        | 1,1,1,0   | [1]       | Load completion       | Eject start      | Load completion |

\* Transition in the center loading (Similar to 12cm in the side loading)

Chart 1.2 8cm Disc switch status transition

C

D



#### 4.5.4 DVD unit check mode

Change LCD indication with a [FF ►►] button and a [REW ◀◀] button.

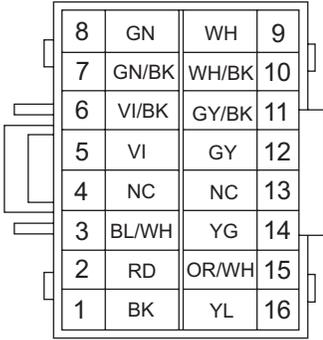
##### Check item list

| No. | A/D key     | DVD unit operation  | Example of LCD indication          | Indication contents                             |
|-----|-------------|---|------------------------------------|---|
| 1   | [1]         | Start at normal speed<br>(After start, it is measured JITTER on the internal position)    | NORMPLAY<br>CUR ****<br>JIT ****   | Laser current value<br>Jitter value             |
| 2   | [2]         | Tracking off on the outermost position of CD  | EF-BAL<br>OUTRKOFF                 | For EF phase error                              |
| 3   | [3]         | Tracking off on the innermost position of CD  | EF-BAL<br>INTRKOFF                 | For EF phase error                              |
| 4   | [4]         | CD_LD lights and laser current is displayed   | CDLD ON<br>CUR ****<br>JIT ****    | Laser current value<br>Jitter value             |
| 5   | [5]         | DVD_LD lights and laser current is displayed  | DVDLD ON<br>CUR ****<br>JIT ****   | Laser current value<br>Jitter value             |
| 6   | [6]         | DVD x1 jitter measuring mode<br>(for use in mechanism measurement)                        | DVD JITR<br>CUR ****<br>JIT ****   | Laser current value<br>Jitter value             |
| 7   | [DISP]      | Indication of EEPROM contents   | ROM DATA<br>ADDR ****<br>DATA **** | EEPROM address<br>EEPROM contents               |
| 8   | [SOURCE]    | Initialization of EEPROM contents   | ROMCLEAR                           |   |
| 9   | [SEL]       | Indication of temperature   | JD4-TEMP<br>TEM ****               | Temperature                                     |
| 10  | [MODE]      | Search & jitter measurement to an appointed position of DVD                               | DVD-DL<br>PLC ****<br>JIT ****     | (Position measured with VT-501)<br>Jitter value |
| 11  | [BAND]      | Setting of MONITOR terminal   | MONITOR<br>M1 ****<br>M2 ****      |   |
| 12  | [DISC UP ▲] | DVDx1 double speed start<br>(After start, it is measured JITTER on the internal position) | PLAY<br>CUR ****<br>JIT ****       | Laser current value<br>Jitter value             |
| 13  | [DISC DW ▼] | Disc stopped & LD-OFF   | STOP                               |   |
| 14  | [EJECT]     | OPEN  | DSC OPEN                           |   |

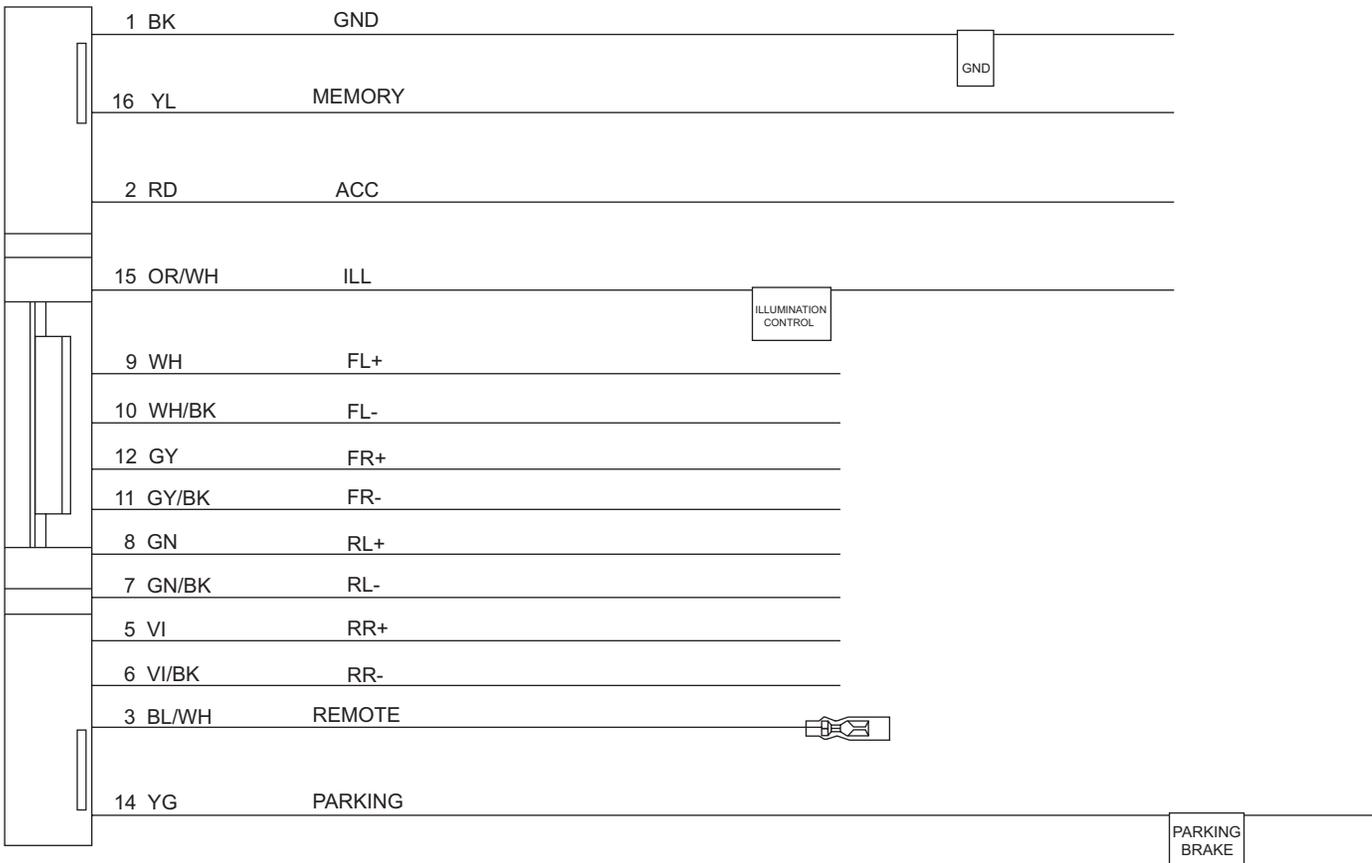
- Note
- Press key [1] of No.1 before an item in which the No.2 or 3 key is pressed.
  - Press key [1] of No.1 or key [12] of No.12 before an item in which the No. 10 key is pressed and confirm the indication of jitter value on the LCD.
  - No.6 starts only a DVD1 layer disk. Even other disks start DVD1 layer.
  - When No.1 and No.12 are pushed after jitter indication, a focus jump is executed. (only DVD2 layer)
  - Stop a disk before OPEN, CLOSE by all means. (OPEN and CLOSE are not executed in a disk turn.)
  - The check mode can be exited either by pressing the [POWER] key or by resetting the unit.

# SECTION 5 TROUBLESHOOTING

## 5.1 16 PIN CORD DIAGRAM

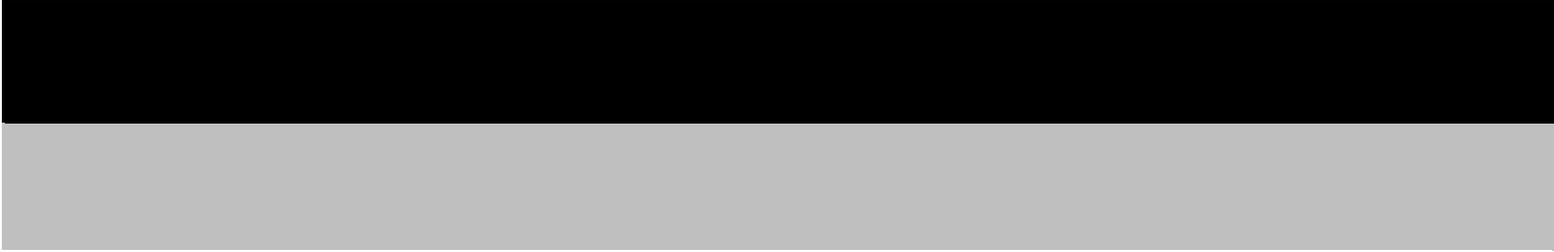


|    |              |    |        |
|----|--------------|----|--------|
| BK | Black        | GN | Green  |
| RD | Red          | VI | Violet |
| BL | Blue         | GY | Gray   |
| WH | White        | YL | Yellow |
| YG | Yellow Green | OR | Orange |



|        |             |         |                        |
|--------|-------------|---------|------------------------|
| RR     | Rear Right  | ACC     | ACC Line               |
| FR     | Front Right | GND     | Ground                 |
| FL     | Front Left  | MEMORY  | Memory Backup Battery+ |
| RL     | Rear Left   | ILL     | Illuminations Control  |
| REMOTE | Remote      | PARKING | Parking Brake          |





**JVC**

Victor Company of Japan, Limited  
AV & MULTIMEDIA COMPANY CAR ELECTRONICS CATEGORY 10-1,1chome,Ohwatari-machi,Maebashi-city,371-8543,Japan

(No.MA149)

# PARTS LIST

[ KD-DV5100 ]

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

Area suffix

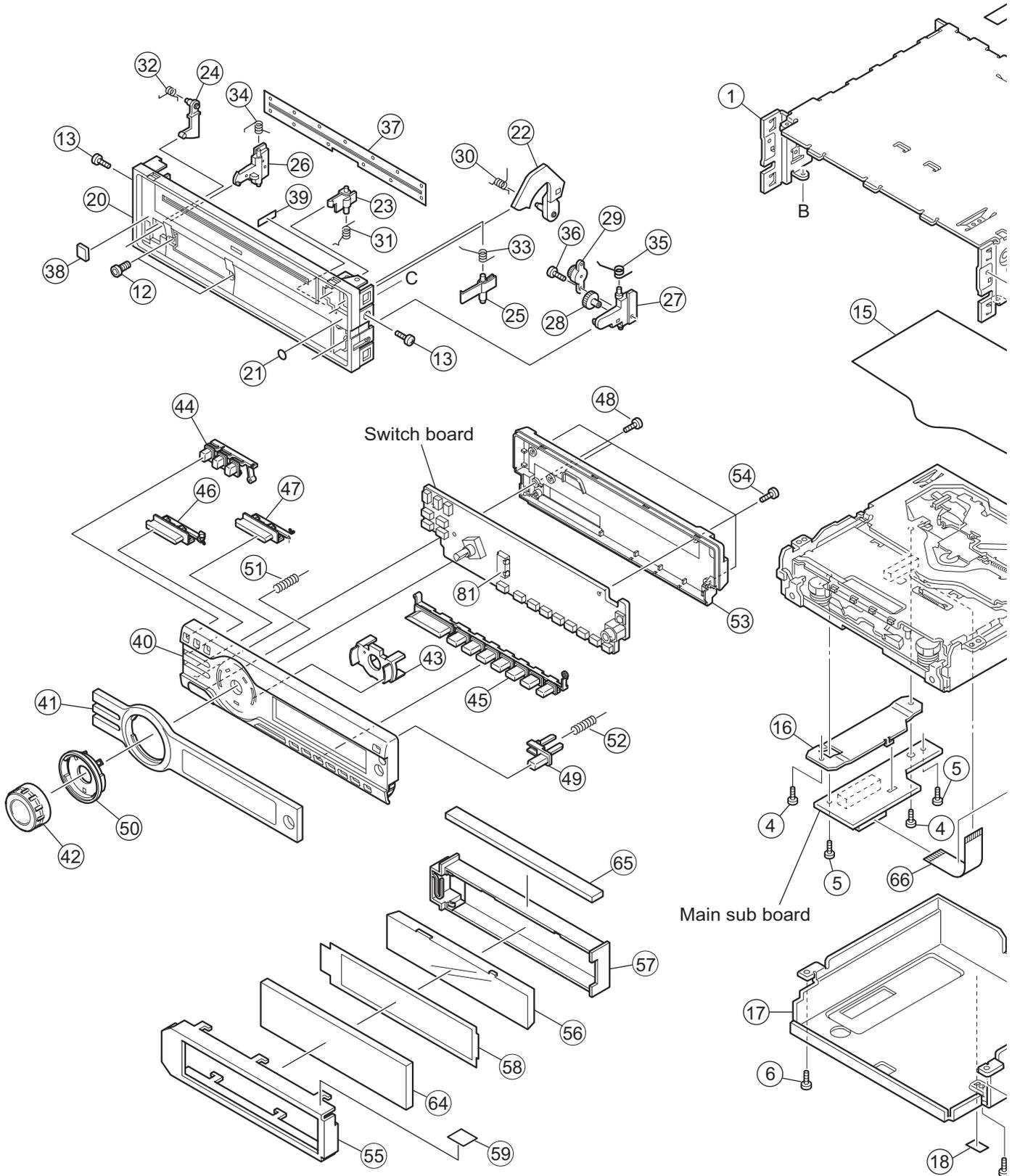
J ----- Northern America

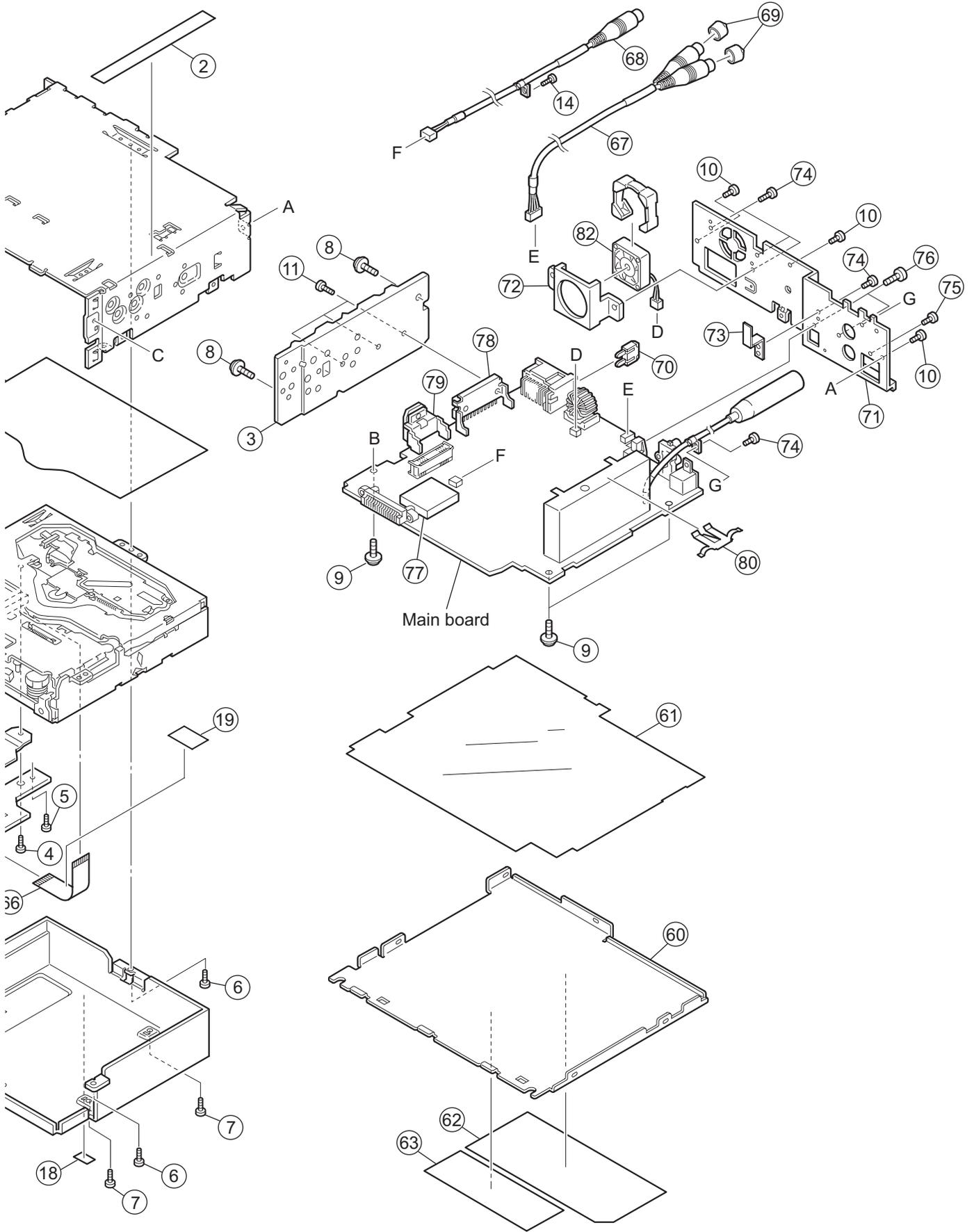
## - Contents -

|  |      |
|--|------|
| Exploded view of general assembly and parts list (Block No.M1) ..... | 3- 2 |
| DVD mechanism assembly and parts list (Block No.MJ) .....            | 3- 6 |
| Electrical parts list (Block No.01~03) .....                         | 3- 9 |
| Packing materials and accessories parts list (Block No.M3) .....     | 3-16 |

# Exploded view of general assembly and parts list

Block No. M 1 M M





# General Assembly

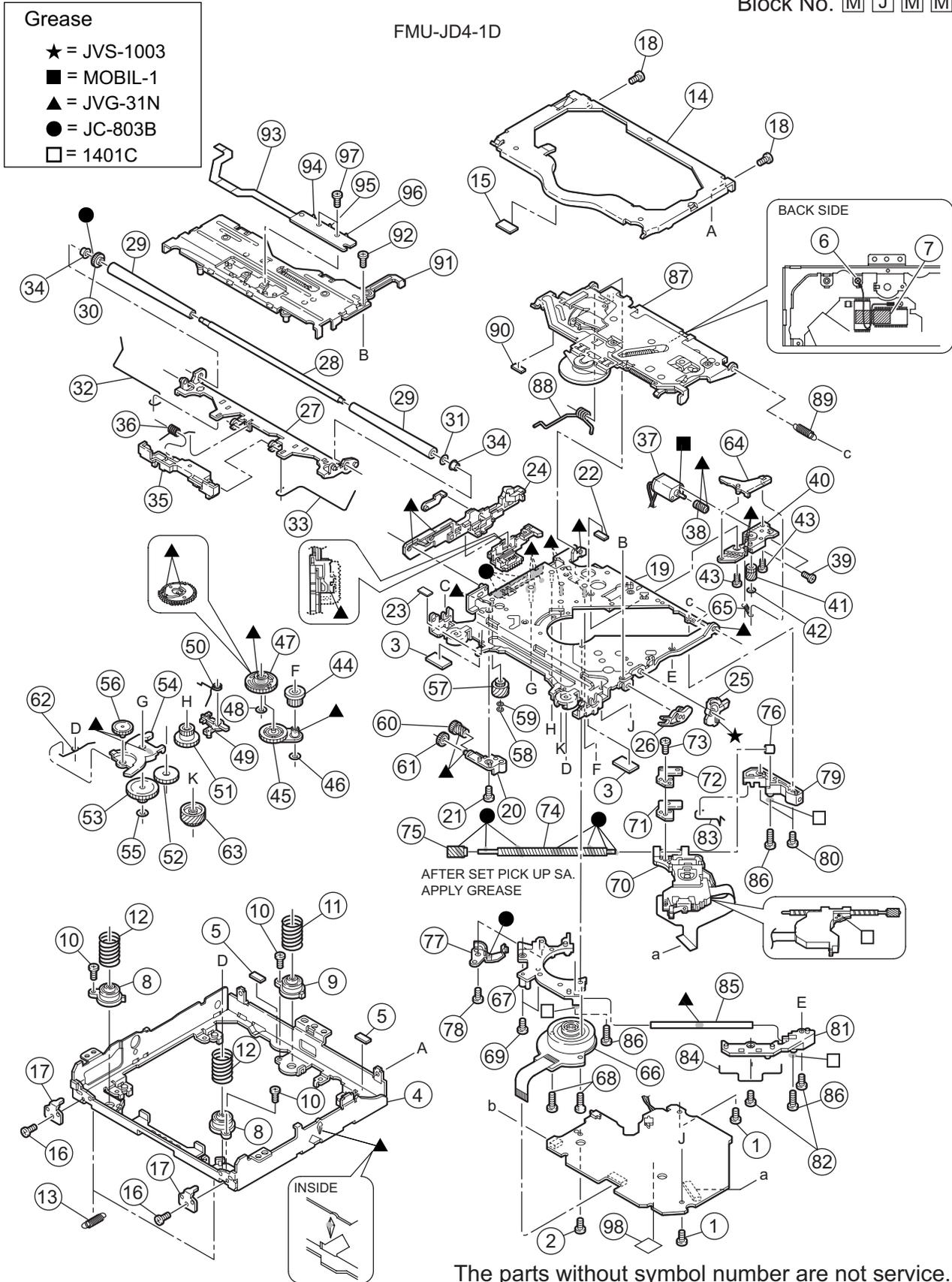
Block No. [M][1][M][M]

| △ | Symbol No. | Part No.      | Part Name          | Description    | Local |
|---|------------|---------------|--------------------|----------------|-------|
|   | 1          | LV10774-004A  | TOP CHASSIS        |                |       |
|   | 2          | LV40848-044A  | SPACER(P)          |                |       |
|   | 3          | LV34061-001A  | SIDE HEAT SINK     |                |       |
|   | 4          | QYSDST2003ZA  | TAP SCREW          | M2 x 3mm(x2)   |       |
|   | 5          | QYSDST2606ZA  | TAP SCREW          | M2.6 x 6mm(x2) |       |
|   | 6          | QYSDST2604ZA  | TAP SCREW          | M2.6 x 4mm(x3) |       |
|   | 7          | QYSDST2604ZA  | TAP SCREW          | M2.6 x 4mm(x2) |       |
|   | 8          | GE40235-001A  | SCREW              | (x2)           |       |
|   | 9          | GE40235-004A  | SCREW              | (x3)           |       |
|   | 10         | QYSDST2604ZA  | TAP SCREW          | M2.6 x 4mm(x3) |       |
|   | 11         | LV41200-005A  | SCREW              | (x3)           |       |
|   | 12         | QYSDSF2006ZA  | TAP SCREW          | M2 x 6mm(x2)   |       |
|   | 13         | QYSDST2004ZA  | TAP SCREW          | M2 x 4mm(x2)   |       |
|   | 14         | QYSDST2604ZA  | TAP SCREW          | M2.6 x 4mm     |       |
|   | 15         | LV34460-001A  | INSULATOR          |                |       |
|   | 16         | GE40255-001A  | SUPPORT BRACKET    |                |       |
|   | 17         | GE20180-001A  | DUST COVER         |                |       |
|   | 18         | FSYH4036-029  | SPACER             |                |       |
|   | 19         | GE40278-001A  | SHEET              |                |       |
|   | 20         | LV34065-004A  | F.CHASSIS ASSY     |                |       |
|   | 21         | FSYH4036-098  | SHEET              |                |       |
|   | 22         | GE30827-002A  | OPEN LEVER         |                |       |
|   | 23         | GE30824-002A  | LOCK LEVER(O.L)    |                |       |
|   | 24         | GE31245-002A  | RELEASE LEVER      |                |       |
|   | 25         | GE30829-001A  | LOCK LEVER(TOP)    |                |       |
|   | 26         | GE31607-001A  | LOCK LEVER(L)      |                |       |
|   | 27         | GE31608-001A  | LOCK LEVER(R)      |                |       |
|   | 28         | GE40154-001A  | GEAR               |                |       |
|   | 29         | QZW0108-002   | OIL DAMPER         |                |       |
|   | 30         | GE40153-001A  | T.SPRING           |                |       |
|   | 31         | GE40157-001A  | T.SPRING           |                |       |
|   | 32         | VKW5264-005   | T.SPRING           |                |       |
|   | 33         | FSKW4012-002  | T.SPRING           |                |       |
|   | 34         | LV43392-001A  | T.SPRING           |                |       |
|   | 35         | GE40155-001A  | T.SPRING           |                |       |
|   | 36         | QYSDSF2006ZA  | TAP SCREW          | M2 x 6mm       |       |
|   | 37         | GE40156-001A  | BLIND              |                |       |
|   | 38         | LV40848-042A  | SPACER(P)          |                |       |
|   | 39         | LV40848-043A  | SPACER(P)          |                |       |
|   | 40         | GE31590-009A  | FRONT PANEL ASSY   |                |       |
|   | 41         | GE31591-006A  | FINDER ASSY        |                |       |
|   | 42         | GE40254-004A  | VOLUME KNOB ASS    |                |       |
|   | 43         | GE31599-001A  | RIM LENS           |                |       |
|   | 44         | GE31593-003A  | D.FUNC BTN         |                |       |
|   | 45         | GE20175-003A  | PRESET BUTTON      |                |       |
|   | 46         | GE31594-001A  | UP/DOWN BTN        |                |       |
|   | 47         | GE31595-001A  | SEARCH BTN         |                |       |
|   | 48         | VKZ4777-010   | MINI SCREW         |                |       |
|   | 49         | GE31601-004A  | EJECT BUTTON       |                |       |
|   | 50         | GE31598-001A  | RIM COVER          |                |       |
|   | 51         | FSKW3002-012  | COMP.SPRING        |                |       |
|   | 52         | GE40202-012A  | COMPRESSION SPRING |                |       |
|   | 53         | GE10107-002A  | REAR COVER         |                |       |
|   | 54         | VKZ4777-010   | MINI SCREW         | (x4)           |       |
|   | 55         | GE31603-001A  | LCD CASE           |                |       |
|   | 56         | GE31604-001A  | LCD LENS           |                |       |
|   | 57         | GE31605-001A  | LENS CASE          |                |       |
|   | 58         | GE40251-002A  | LIGHTING SHEET     |                |       |
|   | 59         | GE40218-032A  | SHEET              |                |       |
|   | 60         | LV34058-001A  | BOTTOM COVER       |                |       |
|   | 61         | GE31663-001A  | INSULATOR          |                |       |
|   | 62         | GE31509-002A  | NAME PLATE         |                |       |
|   | 63         | GE31683-009A  | LABEL (DVD)        |                |       |
|   | 64         | QLD0349-001   | LCD MODULE         |                |       |
|   | 65         | QNZ0772-001   | RUBBER CONN        |                |       |
|   | 66         | QUQ105-4510AE | FFC WIRE           | 45pin 10cm     |       |
|   | 67         | QAM0685-001   | LINE IN CABLE      |                |       |
|   | 68         | QAM0683-001   | COMPOSITE CABLE    |                |       |
|   | 69         | VYTA500-001   | PIN CAP            | (x2)           |       |
|   | 70         | QMFZ039-150-T | FUSE               | 15A            |       |
| △ | 71         | GE31609-013A  | REAR BRACKET       |                |       |
|   | 72         | GE40252-001A  | FAN BRACKET        |                |       |
|   | 73         | GE40253-001A  | WIRE HOLDER        |                |       |
|   | 74         | QYSDST2604ZA  | TAP SCREW          | M2.6 x 4mm(x4) |       |

| △ Symbol No. | Part No.      | Part Name     | Description                   | Local |
|--------------|---------------|---------------|-------------------------------|-------|
| 75           | QYSDST2606ZA  | TAP SCREW     | M2.6 x 6mm                    |       |
| 76           | QYSDSF3008ZA  | TAP SCREW     | M3 x 8mm(LINE OUT/OPTOUT)(x2) |       |
| 77           | GE40270-001A  | SHIELD COVER  |                               |       |
| 78           | LV43349-002A  | POWER IC BKT  |                               |       |
| 79           | LV43373-002A  | REGULATOR BKT |                               |       |
| 80           | VMA4652-001SS | EARTH PLATE   |                               |       |
| 81           | GE30854-001A  | LED HOLDER    |                               |       |
| 82           | QAR0294-001   | FAN MOTOR     |                               |       |

# DVD mechanism assembly and parts list

Block No. M J M M



# DVD mechanism

Block No. [M][J][M][M]

| △ | Symbol No. | Part No.     | Part Name       | Description          | Local |
|---|------------|--------------|-----------------|----------------------|-------|
|   | 1          | VKZ4539-026  | MINI SCREW      | (x2)                 |       |
|   | 2          | QYSPSFT2040Z | TAP SCREW       | M2 x 4mm             |       |
|   | 3          | LV43481-001A | COOLING RUBBER  | (x2)                 |       |
|   | 4          | LV10674-001A | CHASSIS FRAME   |                      |       |
|   | 5          | LV30225-0J6A | SPACER          | (x2)                 |       |
|   | 6          | VKZ4539-056  | MINI SCREW      |                      |       |
|   | 7          | VYSA1R4-056  | SPACER          |                      |       |
|   | 8          | LV33684-001A | DAMPER(F)       | (x2)                 |       |
|   | 9          | LV33685-001A | DAMPER(R)       |                      |       |
|   | 10         | QYSDST2005Z  | TAP SCREW       | M2 x 5mm(x3)         |       |
|   | 11         | LV43039-001A | DAMPER SP.(R)   |                      |       |
|   | 12         | LV43040-001A | DAMPER SP.(F)   | (x2)                 |       |
|   | 13         | LV43041-001A | FLOATING SPRING | (x2)                 |       |
|   | 14         | LV10675-001A | TOP COVER       |                      |       |
|   | 15         | LV30225-0J5A | SPACER          |                      |       |
|   | 16         | VKZ4539-026  | MINI SCREW      | (x2)                 |       |
|   | 17         | LV33669-001A | STOPPER         | (x2)                 |       |
|   | 18         | VKZ4539-026  | MINI SCREW      | (x2)                 |       |
|   | 19         | LV21297-002A | CHAS. BASE ASSY |                      |       |
|   | 20         | LV33608-001A | GEAR HOLDER     |                      |       |
|   | 21         | VKZ4539-026  | MINI SCREW      |                      |       |
|   | 22         | LV43561-001A | ABSORBER        |                      |       |
|   | 23         | LV30225-0J5A | SPACER          |                      |       |
|   | 24         | LV33683-003A | SLIDE CAM ASSY  |                      |       |
|   | 25         | LV33610-001A | FLOATING ARM    |                      |       |
|   | 26         | LV33611-001A | CONNECT ARM     |                      |       |
|   | 27         | LV33678-003A | LOADING A. ASSY |                      |       |
|   | 28         | LV43049-001A | LOADING SHAFT   |                      |       |
|   | 29         | LV43052-003A | ROLLER          | (x2)                 |       |
|   | 30         | LV33612-001A | LOADING GEAR    |                      |       |
|   | 31         | QYWFM124013  | WASHER          | 4mm/1.2mm x 0.13mm   |       |
|   | 32         | LV43053-002A | ROD(L)          |                      |       |
|   | 33         | LV43054-003A | ROD(R)          |                      |       |
|   | 34         | LV43001-001A | COLLAR          | (x2)                 |       |
|   | 35         | LV21285-001A | PROTECTOR       |                      |       |
|   | 36         | LV43055-001A | PROTECTOR SP.   |                      |       |
|   | 37         | QAR0144-003  | MOTOR           |                      |       |
|   | 38         | LV43002-002A | WORM GEAR       |                      |       |
|   | 39         | QYSPSPT2025M | SCREW           | M2 x 2.5mm(x2)       |       |
|   | 40         | LV33679-001A | MOTOR H. ASSY   |                      |       |
|   | 41         | LV33614-002A | WORM WHEEL      |                      |       |
|   | 42         | QYWDL1230250 | SLIT WASHER     | 3mm/1.2mm x 0.25mm   |       |
|   | 43         | VKZ4539-026  | MINI SCREW      | (x2)                 |       |
|   | 44         | LV33615-001A | GEAR 2          |                      |       |
|   | 45         | LV43057-003A | IDLER ARM ASSY  |                      |       |
|   | 46         | QYWDL1635252 | SLIT WASHER     | 3.5mm/1.6mm x 0.25mm |       |
|   | 47         | LV21286-001A | CONTROL CAM     |                      |       |
|   | 48         | QYWDL1230250 | SLIT WASHER     | 3mm/1.2mm x 0.25mm   |       |
|   | 49         | LV33616-001A | LOAD.LOCK LEVER |                      |       |
|   | 50         | LV43060-001A | CAM SPRING      |                      |       |
|   | 51         | LV43005-001A | GEAR 4          |                      |       |
|   | 52         | LV43006-001A | GEAR 5          |                      |       |
|   | 53         | LV33617-001A | GEAR 6          |                      |       |
|   | 54         | LV33618-002A | LOADING G. ARM  |                      |       |
|   | 55         | QYWDL1635252 | SLIT WASHER     | 3.5mm/1.6mm x 0.25mm |       |
|   | 56         | LV43007-001A | GEAR 7          |                      |       |
|   | 57         | LV33619-002A | GEAR 8          |                      |       |
|   | 58         | LV42132-001A | E RING          |                      |       |
|   | 59         | QYWFM215013  | WASHER          | 5mm/2.1mm x 0.13mm   |       |
|   | 60         | LV33620-001A | GEAR 9          |                      |       |
|   | 61         | LV43008-001A | GEAR10          |                      |       |
|   | 62         | LV43061-001A | LOAD SPRING     |                      |       |
|   | 63         | LV33621-001A | FEED GEAR       |                      |       |
|   | 64         | LV33622-001A | TRIGGER ARM     |                      |       |
|   | 65         | LV43062-001A | FEED TRI.SPRING |                      |       |
|   | 66         | QAR0240-001  | SPINDLE MOTOR   |                      |       |
|   | 67         | LV21287-002A | SPINDLE BASE    |                      |       |
|   | 68         | QYSPSTT2065M | TAP SCREW       | M2 x 6.5mm(x2)       |       |
|   | 69         | VKZ4539-026  | MINI SCREW      | (x2)                 |       |
|   | 70         | QAL0647-001  | DVD PICK UP     |                      |       |
|   | 71         | LV33623-002A | RACK PLATE      |                      |       |
|   | 72         | LV43009-001A | RACK SPRING     |                      |       |
|   | 73         | QYSPSPT1740N | SCREW           | M1.7 x 4mm           |       |
|   | 74         | LV43037-001A | LEAD SCREW      |                      |       |

| Symbol No. | Part No.      | Part Name       | Description | Local |
|------------|---------------|-----------------|-------------|-------|
| 75         | LV43010-001A  | L.S.GEAR        |             |       |
| 76         | LV43063-001A  | L.S.COLLAR      |             |       |
| 77         | LV43011-001A  | THRUST SPRING   |             |       |
| 78         | QYSPSFT2040Z  | TAP SCREW       | M2 x 4mm    |       |
| 79         | LV33624-001A  | HOLDER(M)       |             |       |
| 80         | VKZ4539-026   | MINI SCREW      | (x2)        |       |
| 81         | LV21288-001A  | HOLDER(S)       |             |       |
| 82         | VKZ4539-026   | MINI SCREW      | (x2)        |       |
| 83         | LV43064-001A  | ROD(M)          |             |       |
| 84         | LV43065-001A  | ROD(S)          |             |       |
| 85         | LV43066-001A  | SUB SHAFT       |             |       |
| 86         | VKZ4730-001   | SPECIAL SCREW   | (x3)        |       |
| 87         | LV21298-006A  | CLAMPER UNIT    |             |       |
| 88         | LV43070-001A  | CLAMPER SPRING  |             |       |
| 89         | LV43355-001A  | CLAMPER2 SPRING |             |       |
| 90         | LV30225-0J6A  | SPACER          |             |       |
| 91         | LV21299-006A  | FRONT UNIT      |             |       |
| 92         | VKZ4539-026   | MINI SCREW      |             |       |
| 93         | LVB30012-001A | SW FPC          |             |       |
| 94         | NSW0187-001   | SWITCH          |             |       |
| 95         | NSW0187-001   | SWITCH          |             |       |
| 96         | NSW0187-001   | SWITCH          |             |       |
| 97         | VKZ4539-025   | MINI SCREW      | (x2)        |       |
| 98         | LV44232-001A  | GRAPHITE SHEET  |             |       |

# Electrical parts list

## Main board

Block No. [0][1]

| △ Symbol No. | Part No.        | Part Name       | Description | Local |
|--------------|-----------------|-----------------|-------------|-------|
| △ IC31       | TB2118F-X       | PLL IC          |             |       |
| IC101        | NJM4565V-X      | IC              |             |       |
| IC161        | TDA7416         | IC              |             |       |
| IC162        | CD4066BPW-X     | IC              |             |       |
| IC301        | TB2906HQ        | IC              |             |       |
| IC401        | SN74AHCT1G08V-X | IC              |             |       |
| IC402        | TOTX177L        | OPTICAL JACK    |             |       |
| IC411        | MM1510XN-X      | IC              |             |       |
| △ IC721      | UPD784217AGC310 | IC              |             |       |
| IC722        | BR24L16F-W-X    | IC              |             |       |
| IC723        | IC-PST3433U-X   | IC              |             |       |
| IC801        | HD74HC126FP-X   | IC              |             |       |
| △ IC901      | HA13164A        | IC              |             |       |
| IC921        | BA33BC0FP-X     | IC              |             |       |
| IC922        | BD9781HFP-W     | DC CONVERTOR    |             |       |
| IC961        | SN74LVC32APW-X  | IC              |             |       |
| IC962        | SN74HCT32APW-X  | IC              |             |       |
| Q4           | 2SB624/4-X      | TRANSISTOR      |             |       |
| Q5           | UN2211-X        | TRANSISTOR      |             |       |
| Q7           | 2SB709A/R/-X    | TRANSISTOR      |             |       |
| Q11          | UN2211-X        | TRANSISTOR      |             |       |
| Q14          | UN2211-X        | TRANSISTOR      |             |       |
| Q31          | UN2211-X        | TRANSISTOR      |             |       |
| Q161         | UN2211-X        | TRANSISTOR      |             |       |
| Q162         | UN2211-X        | TRANSISTOR      |             |       |
| Q301         | UN2213-X        | DIGI TRANSISTOR |             |       |
| Q302         | UN2113-X        | DIGI TRANSISTOR |             |       |
| Q303         | UN2211-X        | TRANSISTOR      |             |       |
| Q304         | UN2211-X        | TRANSISTOR      |             |       |
| Q344         | KTD1304-X       | TRANSISTOR      |             |       |
| Q354         | KTD1304-X       | TRANSISTOR      |             |       |
| Q701         | 2SB709A/R/-X    | TRANSISTOR      |             |       |
| Q781         | UN2111-X        | TRANSISTOR      |             |       |
| Q783         | UN2111-X        | TRANSISTOR      |             |       |
| Q821         | UN2211-X        | TRANSISTOR      |             |       |
| Q822         | UN2111-X        | TRANSISTOR      |             |       |
| Q823         | 2SD1994A/RS/-T  | TRANSISTOR      |             |       |
| Q881         | 2SD601A/R/-X    | TRANSISTOR      |             |       |
| Q885         | UN2211-X        | TRANSISTOR      |             |       |
| Q903         | 2SB709A/R/-X    | TRANSISTOR      |             |       |
| Q904         | UN2211-X        | TRANSISTOR      |             |       |
| Q976         | UN2213-X        | DIGI TRANSISTOR |             |       |
| Q977         | 2SB709A/R/-X    | TRANSISTOR      |             |       |
| D1           | MA111-X         | SI DIODE        |             |       |
| D2           | MA111-X         | SI DIODE        |             |       |
| D3           | MA152WK-X       | SI DIODE        |             |       |
| D301         | UDZS11B-X       | Z DIODE         |             |       |
| D302         | MA111-X         | SI DIODE        |             |       |
| D305         | RB160M-30-X     | SB DIODE        |             |       |
| D308         | RB160M-30-X     | SB DIODE        |             |       |
| D344         | MA111-X         | SI DIODE        |             |       |
| D354         | MA111-X         | SI DIODE        |             |       |
| D401         | RB160M-30-X     | SB DIODE        |             |       |
| D701         | MA8062/M/-X     | Z DIODE         |             |       |
| D702         | MA8062/M/-X     | Z DIODE         |             |       |
| D703         | MA8062/M/-X     | Z DIODE         |             |       |
| D704         | MA8062/M/-X     | Z DIODE         |             |       |
| D705         | MA8062/M/-X     | Z DIODE         |             |       |
| D706         | MA8062/M/-X     | Z DIODE         |             |       |
| D707         | MA8062/M/-X     | Z DIODE         |             |       |
| D709         | MA8062/M/-X     | Z DIODE         |             |       |
| D710         | MA8062/M/-X     | Z DIODE         |             |       |
| D711         | MA8062/M/-X     | Z DIODE         |             |       |
| D712         | UDZS5.1B-X      | Z DIODE         |             |       |
| D713         | UDZS5.1B-X      | Z DIODE         |             |       |
| D714         | UDZS5.1B-X      | Z DIODE         |             |       |
| D715         | UDZS5.1B-X      | Z DIODE         |             |       |
| D716         | MA8062/M/-X     | Z DIODE         |             |       |
| D717         | MA8062/M/-X     | Z DIODE         |             |       |

| △ Symbol No. | Part No.     | Part Name    | Description   | Local |
|--------------|--------------|--------------|---------------|-------|
| D719         | SLR-56VC3F   | DIODE C.M    |               |       |
| D731         | MA111-X      | SI DIODE     |               |       |
| D781         | MA152WA-X    | DIODE        |               |       |
| D782         | MA152WA-X    | DIODE        |               |       |
| D783         | UDZS11B-X    | Z DIODE      |               |       |
| D801         | RB160M-30-X  | SB DIODE     |               |       |
| D821         | UDZS12B-X    | Z DIODE      |               |       |
| D885         | MA111-X      | SI DIODE     |               |       |
| △ D901       | 1N5401-F64   | DIODE        |               |       |
| D903         | MA111-X      | SI DIODE     |               |       |
| D906         | UDZS5.1B-X   | Z DIODE      |               |       |
| D921         | 1A3G-T1      | SI DIODE     |               |       |
| D922         | RB051L-40-X  | SB DIODE     |               |       |
| D981         | RB160M-30-X  | SB DIODE     |               |       |
| D982         | RB160M-30-X  | SB DIODE     |               |       |
| C2           | NCB31HK-102X | C CAPACITOR  | 1000pF 50V K  |       |
| C3           | NCB31HK-103X | C CAPACITOR  | 0.01uF 50V K  |       |
| C4           | QEKJ1AM-227Z | E CAPACITOR  | 220uF 10V M   |       |
| C5           | QEKJ1CM-476Z | E CAPACITOR  | 47uF 16V M    |       |
| C6           | NCB31EK-473X | C CAPACITOR  | 0.047uF 25V K |       |
| C7           | NCB31HK-103X | C CAPACITOR  | 0.01uF 50V K  |       |
| C8           | QEKJ1CM-226Z | E CAPACITOR  | 22uF 16V M    |       |
| C9           | NCB31HK-103X | C CAPACITOR  | 0.01uF 50V K  |       |
| C12          | QEKJ1HM-104Z | E CAPACITOR  | 0.1uF 50V M   |       |
| C28          | NCS31HJ-7R0X | C CAPACITOR  | 7pF 50V J     |       |
| C29          | NDC31HJ-100X | C CAPACITOR  | 10pF 50V J    |       |
| C30          | NDC31HJ-100X | C CAPACITOR  | 10pF 50V J    |       |
| C31          | NCB31HK-103X | C CAPACITOR  | 0.01uF 50V K  |       |
| C32          | NCB31HK-103X | C CAPACITOR  | 0.01uF 50V K  |       |
| C33          | NCB31HK-102X | C CAPACITOR  | 1000pF 50V K  |       |
| C34          | NCB31HK-103X | C CAPACITOR  | 0.01uF 50V K  |       |
| C35          | QFV61HJ-473Z | MF CAPACITOR | 0.047uF 50V J |       |
| C36          | NCB31HK-102X | C CAPACITOR  | 1000pF 50V K  |       |
| C37          | NCB31HK-272X | C CAPACITOR  | 2700pF 50V K  |       |
| C38          | NCB31HK-103X | C CAPACITOR  | 0.01uF 50V K  |       |
| C39          | NCS31HJ-101X | C CAPACITOR  | 100pF 50V J   |       |
| C40          | NDC31HJ-470X | C CAPACITOR  | 47pF 50V J    |       |
| C41          | QEKJ1CM-106Z | E CAPACITOR  | 10uF 16V M    |       |
| C42          | NCB31EK-473X | C CAPACITOR  | 0.047uF 25V K |       |
| C43          | QEKJ1AM-227Z | E CAPACITOR  | 220uF 10V M   |       |
| C47          | NCB31HK-103X | C CAPACITOR  | 0.01uF 50V K  |       |
| C48          | NCS31HJ-470X | C CAPACITOR  | 47pF 50V J    |       |
| C50          | NCS31HJ-101X | C CAPACITOR  | 100pF 50V J   |       |
| C51          | NCS31HJ-331X | C CAPACITOR  | 330pF 50V J   |       |
| C81          | NCB31HK-103X | C CAPACITOR  | 0.01uF 50V K  |       |
| C82          | NCB31HK-153X | C CAPACITOR  | 0.015uF 50V K |       |
| C83          | QEKJ1HM-105Z | E CAPACITOR  | 1uF 50V M     |       |
| C84          | NCB31HK-472X | C CAPACITOR  | 4700pF 50V K  |       |
| C91          | NCB31HK-103X | C CAPACITOR  | 0.01uF 50V K  |       |
| C92          | NCB31HK-153X | C CAPACITOR  | 0.015uF 50V K |       |
| C93          | QEKJ1HM-105Z | E CAPACITOR  | 1uF 50V M     |       |
| C94          | NCB31HK-472X | C CAPACITOR  | 4700pF 50V K  |       |
| C99          | QEKJ1CM-226Z | E CAPACITOR  | 22uF 16V M    |       |
| C101         | QEKJ1CM-106Z | E CAPACITOR  | 10uF 16V M    |       |
| C102         | QEKJ1CM-226Z | E CAPACITOR  | 22uF 16V M    |       |
| C103         | QEKJ0JM-476Z | E CAPACITOR  | 47uF 6.3V M   |       |
| C109         | NCB31EK-223X | C CAPACITOR  | 0.022uF 25V K |       |
| C110         | QEKJ1CM-476Z | E CAPACITOR  | 47uF 16V M    |       |
| C111         | QEKJ1CM-106Z | E CAPACITOR  | 10uF 16V M    |       |
| C112         | QEKJ1CM-226Z | E CAPACITOR  | 22uF 16V M    |       |
| C113         | QEKJ0JM-476Z | E CAPACITOR  | 47uF 6.3V M   |       |
| C155         | NCB31AK-474X | C CAPACITOR  | 0.47uF 10V K  |       |
| C161         | QEKJ1AM-107Z | E CAPACITOR  | 100uF 10V M   |       |
| C162         | NCB31CK-473X | C CAPACITOR  | 0.047uF 16V K |       |
| C163         | NFV81CM-105X | MF CAPACITOR | 1uF 16V M     |       |
| C164         | NFV81CM-105X | MF CAPACITOR | 1uF 16V M     |       |
| C165         | NFV81CM-105X | MF CAPACITOR | 1uF 16V M     |       |
| C166         | QEKJ1CM-106Z | E CAPACITOR  | 10uF 16V M    |       |
| C168         | QEKJ1HM-225Z | E CAPACITOR  | 2.2uF 50V M   |       |
| C169         | NCB31HK-103X | C CAPACITOR  | 0.01uF 50V K  |       |
| C170         | QEKJ1CM-106Z | E CAPACITOR  | 10uF 16V M    |       |
| C171         | QEKJ1HM-225Z | E CAPACITOR  | 2.2uF 50V M   |       |
| C172         | QTE1H55-225Z | E CAPACITOR  | 2.2uF 50V     |       |
| C174         | QEKJ1HM-225Z | E CAPACITOR  | 2.2uF 50V M   |       |

| △ Symbol No. | Part No.     | Part Name      | Description   | Local | △ Symbol No. | Part No.     | Part Name   | Description   | Local |
|--------------|--------------|----------------|---------------|-------|--------------|--------------|-------------|---------------|-------|
| C175         | NCB31HK-471X | C CAPACITOR    | 470pF 50V K   |       | C911         | NCB31HK-102X | C CAPACITOR | 1000pF 50V K  |       |
| C176         | QEKJ1HM-225Z | E CAPACITOR    | 2.2uF 50V M   |       | C912         | QEKJ1CM-226Z | E CAPACITOR | 22uF 16V M    |       |
| C177         | QEKJ1HM-225Z | E CAPACITOR    | 2.2uF 50V M   |       | C913         | NCB31EK-473X | C CAPACITOR | 0.047uF 25V K |       |
| C181         | QEKJ1HM-225Z | E CAPACITOR    | 2.2uF 50V M   |       | C921         | QEKJ1AM-227Z | E CAPACITOR | 220uF 10V M   |       |
| C182         | QTE1H55-225Z | E CAPACITOR    | 2.2uF 50V     |       | C922         | QEKJ1AM-107Z | E CAPACITOR | 100uF 10V M   |       |
| C184         | QEKJ1HM-225Z | E CAPACITOR    | 2.2uF 50V M   |       | C925         | QEKJ1AM-227Z | E CAPACITOR | 220uF 10V M   |       |
| C185         | NCB31HK-471X | C CAPACITOR    | 470pF 50V K   |       | C926         | QEXL1AM-476Z | E CAPACITOR | 47uF 10V M    |       |
| C186         | QEKJ1HM-225Z | E CAPACITOR    | 2.2uF 50V M   |       | C927         | QEZ0595-477Z | E CAPACITOR | 470uF         |       |
| C187         | QEKJ1HM-225Z | E CAPACITOR    | 2.2uF 50V M   |       | C928         | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z   |       |
| C301         | QEKJ1CM-476Z | E CAPACITOR    | 47uF 16V M    |       | C929         | NCB31HK-472X | C CAPACITOR | 4700pF 50V K  |       |
| C302         | NCB31HK-103X | C CAPACITOR    | 0.01uF 50V K  |       | C930         | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z   |       |
| C311         | NBE21CM-475X | TA E CAPACITOR | 4.7uF 16V M   |       | C961         | QEKJ1AM-227Z | E CAPACITOR | 220uF 10V M   |       |
| C312         | QEKJ1CM-476Z | E CAPACITOR    | 47uF 16V M    |       | C962         | QEKJ1AM-227Z | E CAPACITOR | 220uF 10V M   |       |
| C313         | NCB31HK-103X | C CAPACITOR    | 0.01uF 50V K  |       | C963         | QEKJ1AM-227Z | E CAPACITOR | 220uF 10V M   |       |
| C314         | QEKJ1HM-225Z | E CAPACITOR    | 2.2uF 50V M   |       | C964         | QEKJ1AM-227Z | E CAPACITOR | 220uF 10V M   |       |
| C315         | QEKJ1CM-226Z | E CAPACITOR    | 22uF 16V M    |       | C965         | QEKJ1AM-227Z | E CAPACITOR | 220uF 10V M   |       |
| C316         | NCB31HK-103X | C CAPACITOR    | 0.01uF 50V K  |       | C966         | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K   |       |
| C328         | NFV81CM-105X | MF CAPACITOR   | 1uF 16V M     |       | C967         | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K   |       |
| C329         | NCS31HJ-101X | C CAPACITOR    | 100pF 50V J   |       | C968         | NCB31EK-473X | C CAPACITOR | 0.047uF 25V K |       |
| C331         | NCB31HK-223X | C CAPACITOR    | 0.022uF 50V K |       | C969         | NCB31EK-473X | C CAPACITOR | 0.047uF 25V K |       |
| C338         | NFV81CM-105X | MF CAPACITOR   | 1uF 16V M     |       | C981         | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K   |       |
| C339         | NCS31HJ-101X | C CAPACITOR    | 100pF 50V J   |       | C997         | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K  |       |
| C346         | QEKJ1EM-475Z | E CAPACITOR    | 4.7uF 25V M   |       | C999         | NCS31HJ-101X | C CAPACITOR | 100pF 50V J   |       |
| C348         | NFV81CM-105X | MF CAPACITOR   | 1uF 16V M     |       |              |              |             |               |       |
| C349         | NCS31HJ-101X | C CAPACITOR    | 100pF 50V J   |       | R1           | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |       |
| C356         | QEKJ1EM-475Z | E CAPACITOR    | 4.7uF 25V M   |       | R2           | NRS181J-220X | MG RESISTOR | 22Ω 1/8W J    |       |
| C358         | NFV81CM-105X | MF CAPACITOR   | 1uF 16V M     |       | R3           | NRS181J-220X | MG RESISTOR | 22Ω 1/8W J    |       |
| C359         | NCS31HJ-101X | C CAPACITOR    | 100pF 50V J   |       | R4           | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |       |
| C401         | NCS31HJ-220X | C CAPACITOR    | 22pF 50V J    |       | R5           | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J |       |
| C402         | NCB31HK-103X | C CAPACITOR    | 0.01uF 50V K  |       | R6           | NRSA63J-332X | MG RESISTOR | 3.3kΩ 1/16W J |       |
| C403         | NCB31HK-103X | C CAPACITOR    | 0.01uF 50V K  |       | R7           | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |       |
| C404         | QEKJ0JM-107Z | E CAPACITOR    | 100uF 6.3V M  |       | R8           | NRS181J-0R0X | MG RESISTOR | 0Ω 1/8W J     |       |
| C405         | NCS31HJ-220X | C CAPACITOR    | 22pF 50V J    |       | R9           | NRSA63J-100X | MG RESISTOR | 10Ω 1/16W J   |       |
| C406         | NCB31HK-103X | C CAPACITOR    | 0.01uF 50V K  |       | R12          | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       |
| C411         | QEKJ1AM-227Z | E CAPACITOR    | 220uF 10V M   |       | R14          | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       |
| C412         | NCB31EK-473X | C CAPACITOR    | 0.047uF 25V K |       | R31          | NRSA63J-470X | MG RESISTOR | 47Ω 1/16W J   |       |
| C413         | QCZ0202-155Z | C CAPACITOR    | 1.5uF 25V Z   |       | R32          | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       |
| C414         | QERF0JM-337Z | E CAPACITOR    | 330uF 6.3V M  |       | R33          | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J  |       |
| C415         | NCS31HJ-101X | C CAPACITOR    | 100pF 50V J   |       | R34          | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       |
| C416         | NCB31HK-103X | C CAPACITOR    | 0.01uF 50V K  |       | R35          | NRSA63J-393X | MG RESISTOR | 39kΩ 1/16W J  |       |
| C701         | NCB31HK-103X | C CAPACITOR    | 0.01uF 50V K  |       | R36          | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J  |       |
| C702         | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       | R37          | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J  |       |
| C703         | NDC31HJ-101X | C CAPACITOR    | 100pF 50V J   |       | R38          | NRSA63J-100X | MG RESISTOR | 10Ω 1/16W J   |       |
| C704         | NCB31AK-474X | C CAPACITOR    | 0.47uF 10V K  |       | R39          | NRSA63J-622X | MG RESISTOR | 6.2kΩ 1/16W J |       |
| C705         | NDC31HJ-101X | C CAPACITOR    | 100pF 50V J   |       | R40          | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J |       |
| C721         | NCB31EK-473X | C CAPACITOR    | 0.047uF 25V K |       | R42          | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       |
| C722         | QEKJ1AM-227Z | E CAPACITOR    | 220uF 10V M   |       | R43          | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       |
| C723         | NCS31HJ-471X | C CAPACITOR    | 470pF 50V J   |       | R44          | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       |
| C724         | NCS31HJ-471X | C CAPACITOR    | 470pF 50V J   |       | R52          | NRSA63J-273X | MG RESISTOR | 27kΩ 1/16W J  |       |
| C725         | QEKJ1AM-227Z | E CAPACITOR    | 220uF 10V M   |       | R81          | NRSA63J-392X | MG RESISTOR | 3.9kΩ 1/16W J |       |
| C726         | NDC31HJ-8R0X | C CAPACITOR    | 8pF 50V J     |       | R82          | NRSA63J-392X | MG RESISTOR | 3.9kΩ 1/16W J |       |
| C727         | NDC31HJ-270X | C CAPACITOR    | 27pF 50V J    |       | R91          | NRSA63J-392X | MG RESISTOR | 3.9kΩ 1/16W J |       |
| C728         | NDC31HJ-270X | C CAPACITOR    | 27pF 50V J    |       | R92          | NRSA63J-392X | MG RESISTOR | 3.9kΩ 1/16W J |       |
| C729         | NDC31HJ-220X | C CAPACITOR    | 22pF 50V J    |       | R101         | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |       |
| C730         | QEKJ0JM-476Z | E CAPACITOR    | 47uF 6.3V M   |       | R102         | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       |
| C731         | NCB31CK-103X | C CAPACITOR    | 0.01uF 16V K  |       | R103         | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       |
| C732         | QEKJ1AM-227Z | E CAPACITOR    | 220uF 10V M   |       | R104         | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       |
| C733         | NCS31HJ-471X | C CAPACITOR    | 470pF 50V J   |       | R105         | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       |
| C781         | QEKJ0JM-476Z | E CAPACITOR    | 47uF 6.3V M   |       | R106         | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       |
| C783         | QEKJ1CM-476Z | E CAPACITOR    | 47uF 16V M    |       | R107         | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       |
| C802         | NCS31HJ-220X | C CAPACITOR    | 22pF 50V J    |       | R110         | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       |
| C803         | NCB31CK-473X | C CAPACITOR    | 0.047uF 16V K |       | R111         | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |       |
| C804         | NCS31HJ-220X | C CAPACITOR    | 22pF 50V J    |       | R112         | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       |
| C821         | QEKJ1CM-106Z | E CAPACITOR    | 10uF 16V M    |       | R113         | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       |
| C822         | QEKJ1CM-106Z | E CAPACITOR    | 10uF 16V M    |       | R114         | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       |
| C823         | NCB31HK-103X | C CAPACITOR    | 0.01uF 50V K  |       | R115         | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       |
| C881         | QEKJ1CM-226Z | E CAPACITOR    | 22uF 16V M    |       | R116         | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       |
| C885         | QEKJ1CM-106Z | E CAPACITOR    | 10uF 16V M    |       | R117         | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       |
| C901         | QEZ0722-338  | E CAPACITOR    | 3300uF        |       | R141         | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |       |
| C902         | QEKJ1HM-225Z | E CAPACITOR    | 2.2uF 50V M   |       | R151         | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |       |
| C903         | QEKJ1CM-106Z | E CAPACITOR    | 10uF 16V M    |       | R155         | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J  |       |
| C905         | QEKJ1AM-107Z | E CAPACITOR    | 100uF 10V M   |       | R161         | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       |
| C906         | NCF31CZ-104X | C CAPACITOR    | 0.1uF 16V Z   |       | R162         | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |       |
| C907         | NCB31HK-103X | C CAPACITOR    | 0.01uF 50V K  |       | R163         | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |       |
| C908         | QEKJ1AM-227Z | E CAPACITOR    | 220uF 10V M   |       | R164         | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |       |
| C909         | QEKJ1CM-107Z | E CAPACITOR    | 100uF 16V M   |       | R166         | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J  |       |
| C910         | NCB31HK-102X | C CAPACITOR    | 1000pF 50V K  |       | R167         | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J |       |

| △ Symbol No. | Part No.     | Part Name   | Description   | Local | △ Symbol No. | Part No.     | Part Name   | Description   | Local |
|--------------|--------------|-------------|---------------|-------|--------------|--------------|-------------|---------------|-------|
| R168         | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J |       | R736         | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J |       |
| R169         | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J |       | R737         | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J |       |
| R170         | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J |       | R738         | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J |       |
| R171         | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J |       | R739         | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J |       |
| R172         | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J |       | R740         | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J |       |
| R173         | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | R743         | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |       |
| R302         | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | R744         | NRSA63J-821X | MG RESISTOR | 820Ω 1/16W J  |       |
| R303         | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | R745         | NRSA63J-106X | MG RESISTOR | 10MΩ 1/16W J  |       |
| R304         | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |       | R746         | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |       |
| R305         | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       | R749         | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |       |
| R306         | NRSA63J-273X | MG RESISTOR | 27kΩ 1/16W J  |       | R750         | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |       |
| R307         | NRSA63J-100X | MG RESISTOR | 10Ω 1/16W J   |       | R751         | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J  |       |
| R308         | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J |       | R755         | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       |
| R327         | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | R756         | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J |       |
| R328         | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |       | R757         | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |       |
| R329         | NRSA63J-513X | MG RESISTOR | 51kΩ 1/16W J  |       | R758         | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |       |
| R330         | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   |       | R759         | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |       |
| R337         | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | R760         | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J |       |
| R338         | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |       | R761         | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J |       |
| R339         | NRSA63J-513X | MG RESISTOR | 51kΩ 1/16W J  |       | R762         | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J |       |
| R340         | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   |       | R763         | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       |
| R343         | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |       | R765         | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       |
| R344         | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J |       | R766         | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |       |
| R345         | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   |       | R768         | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       |
| R346         | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J  |       | R769         | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |       |
| R347         | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | R770         | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   |       |
| R348         | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |       | R771         | NRSA63J-392X | MG RESISTOR | 3.9kΩ 1/16W J |       |
| R349         | NRSA63J-513X | MG RESISTOR | 51kΩ 1/16W J  |       | R772         | NRSA63J-392X | MG RESISTOR | 3.9kΩ 1/16W J |       |
| R350         | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   |       | R773         | NRSA63J-392X | MG RESISTOR | 3.9kΩ 1/16W J |       |
| R353         | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |       | R774         | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J |       |
| R354         | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J |       | R775         | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J |       |
| R355         | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   |       | R776         | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J |       |
| R356         | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J  |       | R777         | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   |       |
| R357         | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | R779         | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J |       |
| R358         | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |       | R780         | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J |       |
| R359         | NRSA63J-513X | MG RESISTOR | 51kΩ 1/16W J  |       | R781         | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J  |       |
| R360         | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   |       | R784         | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J |       |
| R401         | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J  |       | R799         | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J |       |
| R402         | NRSA63J-100X | MG RESISTOR | 10Ω 1/16W J   |       | R801         | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J  |       |
| R403         | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J  |       | R802         | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |       |
| R404         | NRSA63J-1R0X | MG RESISTOR | 1Ω 1/16W J    |       | R803         | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J  |       |
| R411         | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | R804         | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J |       |
| R412         | NRSA63D-682X | MG RESISTOR | 6.8kΩ 1/16W D |       | R805         | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       |
| R413         | NRSA63J-100X | MG RESISTOR | 10Ω 1/16W J   |       | R806         | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J |       |
| R414         | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   |       | R807         | NRSA63J-331X | MG RESISTOR | 330Ω 1/16W J  |       |
| R415         | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J   |       | R808         | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J  |       |
| R416         | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | R809         | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J  |       |
| R417         | NRSA63D-181X | MG RESISTOR | 180Ω 1/16W D  |       | R810         | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |       |
| R701         | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | R821         | NRSA63J-100X | MG RESISTOR | 10Ω 1/16W J   |       |
| R702         | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | R822         | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J  |       |
| R703         | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | R843         | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |       |
| R704         | NRSA63J-271X | MG RESISTOR | 270Ω 1/16W J  |       | R844         | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |       |
| R705         | NRSA63J-271X | MG RESISTOR | 270Ω 1/16W J  |       | R881         | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |       |
| R706         | NRSA63J-271X | MG RESISTOR | 270Ω 1/16W J  |       | R882         | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       |
| R707         | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       | R883         | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J |       |
| R708         | NRS181J-331X | MG RESISTOR | 330Ω 1/8W J   |       | R885         | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |       |
| R709         | NRSA63J-562X | MG RESISTOR | 5.6kΩ 1/16W J |       | R886         | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J |       |
| R710         | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   |       | R887         | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       |
| R711         | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       | R888         | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       |
| R712         | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J |       | R889         | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       |
| R713         | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       | R901         | QRE142J-102X | C RESISTOR  | 1kΩ 1/4W J    |       |
| R714         | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J |       | R902         | NRSA63J-912X | MG RESISTOR | 9.1kΩ 1/16W J |       |
| R715         | NRSA63J-271X | MG RESISTOR | 270Ω 1/16W J  |       | R903         | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J |       |
| R716         | NRSA63J-271X | MG RESISTOR | 270Ω 1/16W J  |       | R909         | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |       |
| R717         | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       | R910         | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J |       |
| R718         | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       | R914         | NRS181J-221X | MG RESISTOR | 220Ω 1/8W J   |       |
| R719         | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   |       | R921         | NRS181J-0R0X | MG RESISTOR | 0Ω 1/8W J     |       |
| R721         | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J |       | R923         | NRSA63J-393X | MG RESISTOR | 39kΩ 1/16W J  |       |
| R722         | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J |       | R924         | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       |
| R725         | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |       | R925         | NRSA63J-154X | MG RESISTOR | 150kΩ 1/16W J |       |
| R726         | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       | R926         | NRSA63J-394X | MG RESISTOR | 390kΩ 1/16W J |       |
| R727         | NRSA63J-562X | MG RESISTOR | 5.6kΩ 1/16W J |       | R927         | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       |
| R728         | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J |       | R928         | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |       |
| R729         | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | R961         | NRS181J-0R0X | MG RESISTOR | 0Ω 1/8W J     |       |
| R732         | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J |       | R962         | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J  |       |
| R733         | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       | R967         | NRS181J-0R0X | MG RESISTOR | 0Ω 1/8W J     |       |
| R735         | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | R968         | NRS181J-0R0X | MG RESISTOR | 0Ω 1/8W J     |       |

| Symbol No. | Part No.      | Part Name     | Description    | Local | Symbol No. | Part No.        | Part Name      | Description   | Local |
|------------|---------------|---------------|----------------|-------|------------|-----------------|----------------|---------------|-------|
| R969       | NRS181J-0R0X  | MG RESISTOR   | 0Ω 1/8W J      |       | D615       | SML-310VT/JK/-X | LED            |               |       |
| R973       | NRSA63J-103X  | MG RESISTOR   | 10kΩ 1/16W J   |       | D616       | SML-310VT/JK/-X | LED            |               |       |
| R974       | NRSA63J-103X  | MG RESISTOR   | 10kΩ 1/16W J   |       | D617       | SML-310VT/JK/-X | LED            |               |       |
| R975       | NRSA63J-103X  | MG RESISTOR   | 10kΩ 1/16W J   |       | D618       | SML-310VT/JK/-X | LED            |               |       |
| R976       | NRSA63J-563X  | MG RESISTOR   | 56kΩ 1/16W J   |       | D619       | SML-310VT/JK/-X | LED            |               |       |
| R977       | NRSA63J-183X  | MG RESISTOR   | 18kΩ 1/16W J   |       | D640       | MA152WK-X       | SI DIODE       |               |       |
| R981       | NRS181J-222X  | MG RESISTOR   | 2.2kΩ 1/8W J   |       | D641       | UDZS5.1B-X      | Z DIODE        |               |       |
| R982       | NRS181J-222X  | MG RESISTOR   | 2.2kΩ 1/8W J   |       | D642       | MA111-X         | SI DIODE       |               |       |
| RA31       | NRZ0065-222X  | NET RESISTOR  | 2.2kΩ          |       | D643       | MA8062/M/-X     | Z DIODE        |               |       |
| RA723      | NRZ0065-103X  | NET RESISTOR  | 10kΩ           |       | D645       | NSPW310BS/BRS/  | LED            |               |       |
| L1         | NQL334J-4R7X  | COIL          | 4.7uH J        |       | D646       | NSPW310BS/BRS/  | LED            |               |       |
| L31        | NQL114K-470X  | INDUCITOR     | 47uH K         |       | C601       | NCB31HK-223X    | C CAPACITOR    | 0.022uF 50V K |       |
| L401       | NQR0007-002X  | FERRITE BEADS |                |       | C602       | NCS31HJ-681X    | C CAPACITOR    | 680pF 50V J   |       |
| L411       | NQL114K-470X  | INDUCITOR     | 47uH K         |       | C603       | NBE20JM-106X    | TA E CAPACITOR | 10uF 6.3V M   |       |
| L721       | NQL38DK-330X  | COIL          | 33uH K         |       | C611       | NCB31HK-123X    | C CAPACITOR    | 0.012uF 50V K |       |
| L722       | NQL114K-470X  | INDUCITOR     | 47uH K         |       | C612       | NBE20JM-475X    | TA E CAPACITOR | 4.7uF 6.3V M  |       |
| L901       | QQR1378-002   | COIL          |                |       | C620       | NCB31HK-473X    | C CAPACITOR    | 0.047uF 50V K |       |
| L902       | NQL56CK-220X  | COIL          | 22uH K         |       | R601       | NRSA63J-821X    | MG RESISTOR    | 820Ω 1/16W J  |       |
| L924       | NQL56CK-220X  | COIL          | 22uH K         |       | R602       | NRSA63J-821X    | MG RESISTOR    | 820Ω 1/16W J  |       |
| L925       | NQL71EM-330X  | COIL          | 33uH M         |       | R603       | NRSA63J-122X    | MG RESISTOR    | 1.2kΩ 1/16W J |       |
| L927       | NQLB7GM-100X  | COIL          | 10uH M         |       | R604       | NRSA63J-182X    | MG RESISTOR    | 1.8kΩ 1/16W J |       |
| CN141      | QGA2006C1-04  | CONNECTOR     | W-B (1-4)      |       | R605       | NRSA63J-272X    | MG RESISTOR    | 2.7kΩ 1/16W J |       |
| CN411      | QGA2501F1-02  | CONNECTOR     | W-B (1-2)      |       | R606       | NRSA63J-392X    | MG RESISTOR    | 3.9kΩ 1/16W J |       |
| CN701      | QNZ0605-001   | CAR CONNECTOR |                |       | R607       | NRSA63J-821X    | MG RESISTOR    | 820Ω 1/16W J  |       |
| CN821      | QGA2001C1-02  | CONNECTOR     | W-B (1-2)      |       | R608       | NRSA63J-821X    | MG RESISTOR    | 820Ω 1/16W J  |       |
| CN901      | QNZ0607-001   | CAR CONNECTOR |                |       | R609       | NRSA63J-122X    | MG RESISTOR    | 1.2kΩ 1/16W J |       |
| CN961      | QGB2027M3-30S | CONNECTOR     | B-B (1-30)     |       | R610       | NRSA63J-182X    | MG RESISTOR    | 1.8kΩ 1/16W J |       |
| CN962      | QGF0534F1-45X | CONNECTOR     | FFC/FPC (1-45) |       | R611       | NRSA63J-272X    | MG RESISTOR    | 2.7kΩ 1/16W J |       |
| CN963      | QGB2027L8-30X | CONNECTOR     | B-B (1-30)     |       | R612       | NRSA63J-392X    | MG RESISTOR    | 3.9kΩ 1/16W J |       |
| J331       | QNN0519-001   | PIN JACK      |                |       | R613       | NRSA63J-821X    | MG RESISTOR    | 820Ω 1/16W J  |       |
| J801       | QNZ0095-001   | CONNECTOR     |                |       | R614       | NRSA63J-821X    | MG RESISTOR    | 820Ω 1/16W J  |       |
| K401       | NQR0007-002X  | FERRITE BEADS |                |       | R620       | NRSA63J-0R0X    | MG RESISTOR    | 0Ω 1/16W J    |       |
| K402       | NQR0007-002X  | FERRITE BEADS |                |       | R621       | NRSA63J-0R0X    | MG RESISTOR    | 0Ω 1/16W J    |       |
| K411       | NQR0201-004X  | FERRITE BEADS |                |       | R622       | NRSA63J-473X    | MG RESISTOR    | 47kΩ 1/16W J  |       |
| K922       | NQR0201-004X  | FERRITE BEADS |                |       | R623       | NRSA63J-473X    | MG RESISTOR    | 47kΩ 1/16W J  |       |
| PP2        | QZW0010-001   | STYLE PIN     |                |       | R624       | NRSA63J-471X    | MG RESISTOR    | 470Ω 1/16W J  |       |
| S701       | QSW0451-001   | DETECT SW     |                |       | R630       | NRSA63J-102X    | MG RESISTOR    | 1kΩ 1/16W J   |       |
| S702       | QSW0451-001   | DETECT SW     |                |       | R632       | NRSA63J-821X    | MG RESISTOR    | 820Ω 1/16W J  |       |
| S723       | QSW1049-001Z  | TACT SW       |                |       | R634       | NRSA63J-331X    | MG RESISTOR    | 330Ω 1/16W J  |       |
| TH721      | NAD0028-103X  | N THERMISTOR  | 10kΩ           |       | R636       | NRSA63J-331X    | MG RESISTOR    | 330Ω 1/16W J  |       |
| TU21       | QAU0312-002   | TUNER PACK    |                |       | R638       | NRSA63J-471X    | MG RESISTOR    | 470Ω 1/16W J  |       |
| W21        | QAM0105-003   | CAR CABLE     |                |       | R640       | NRSA02J-331X    | MG RESISTOR    | 330Ω 1/10W J  |       |
| X31        | QAX0616-001Z  | CRYSTAL       | 10.250MHz      |       | R641       | NRSA02J-121X    | MG RESISTOR    | 120Ω 1/10W J  |       |
| X721       | QAX0617-001Z  | CRYSTAL       | 12.500MHz      |       | R642       | NRSA02J-331X    | MG RESISTOR    | 330Ω 1/10W J  |       |
| X722       | QAX0401-001   | CRYSTAL       | 32.768KHz      |       | R643       | NRSA02J-201X    | MG RESISTOR    | 200Ω 1/10W J  |       |
|            |               |               |                |       | R644       | NRSA63J-471X    | MG RESISTOR    | 470Ω 1/16W J  |       |
|            |               |               |                |       | R646       | NRSA63J-471X    | MG RESISTOR    | 470Ω 1/16W J  |       |
|            |               |               |                |       | R648       | NRSA63J-331X    | MG RESISTOR    | 330Ω 1/16W J  |       |
|            |               |               |                |       | R651       | NRSA63J-222X    | MG RESISTOR    | 2.2kΩ 1/16W J |       |
|            |               |               |                |       | R652       | NRSA63J-222X    | MG RESISTOR    | 2.2kΩ 1/16W J |       |
|            |               |               |                |       | R653       | NRSA63J-103X    | MG RESISTOR    | 10kΩ 1/16W J  |       |
|            |               |               |                |       | R654       | NRSA63J-103X    | MG RESISTOR    | 10kΩ 1/16W J  |       |
|            |               |               |                |       | R655       | NRSA63J-103X    | MG RESISTOR    | 10kΩ 1/16W J  |       |
|            |               |               |                |       | R656       | NRSA63J-103X    | MG RESISTOR    | 10kΩ 1/16W J  |       |
|            |               |               |                |       | R657       | NRSA63J-513X    | MG RESISTOR    | 51kΩ 1/16W J  |       |
|            |               |               |                |       | R658       | NRSA63J-184X    | MG RESISTOR    | 180kΩ 1/16W J |       |
|            |               |               |                |       | R660       | NRSA02J-391X    | MG RESISTOR    | 390Ω 1/10W J  |       |
|            |               |               |                |       | R661       | NRSA02J-391X    | MG RESISTOR    | 390Ω 1/10W J  |       |
|            |               |               |                |       | R670       | NRSA63J-0R0X    | MG RESISTOR    | 0Ω 1/16W J    |       |
|            |               |               |                |       | R672       | NRSA02J-471X    | MG RESISTOR    | 470Ω 1/10W J  |       |
|            |               |               |                |       | R673       | NRSA02J-473X    | MG RESISTOR    | 47kΩ 1/10W J  |       |
|            |               |               |                |       | R674       | NRSA02J-102X    | MG RESISTOR    | 1kΩ 1/10W J   |       |
|            |               |               |                |       | R691       | NRSA63J-103X    | MG RESISTOR    | 10kΩ 1/16W J  |       |
|            |               |               |                |       | R692       | NRSA63J-471X    | MG RESISTOR    | 470Ω 1/16W J  |       |
|            |               |               |                |       | CN601      | NNZ0085-001     | CAR CONNECTOR  |               |       |
|            |               |               |                |       | EN601      | QSW1115-002     | ROTARY ENCODER |               |       |
|            |               |               |                |       | J601       | QNS0245-001     | AUX JACK       |               |       |
|            |               |               |                |       | S601       | NSW0206-001X    | TACT SWITCH    |               |       |
|            |               |               |                |       | S602       | NSW0206-001X    | TACT SWITCH    |               |       |
|            |               |               |                |       | S603       | NSW0206-001X    | TACT SWITCH    |               |       |
|            |               |               |                |       | S604       | NSW0206-001X    | TACT SWITCH    |               |       |
|            |               |               |                |       | S605       | NSW0206-001X    | TACT SWITCH    |               |       |
|            |               |               |                |       | S606       | NSW0206-001X    | TACT SWITCH    |               |       |
|            |               |               |                |       | S607       | NSW0206-001X    | TACT SWITCH    |               |       |

## Switch board

Block No. [0][2]

| Symbol No. | Part No.        | Part Name   | Description | Local |
|------------|-----------------|-------------|-------------|-------|
| IC601      | PT6523LQ-L      | LCD DRIVER  |             |       |
| IC602      | RPM7338-V4      | RM.RECEIVER |             |       |
| Q640       | 2SB624/4/-X     | TRANSISTOR  |             |       |
| Q641       | UN2211-X        | TRANSISTOR  |             |       |
| D601       | SML-310VT/JK/-X | LED         |             |       |
| D602       | SML-310VT/JK/-X | LED         |             |       |
| D603       | SML-310VT/JK/-X | LED         |             |       |
| D604       | SML-310VT/JK/-X | LED         |             |       |
| D605       | SML-310VT/JK/-X | LED         |             |       |
| D606       | SML-310VT/JK/-X | LED         |             |       |
| D607       | SML-310VT/JK/-X | LED         |             |       |
| D608       | SML310BA1T-X    | LED         |             |       |
| D609       | SML310BA1T-X    | LED         |             |       |
| D610       | SML-310VT/JK/-X | LED         |             |       |
| D611       | SML-310VT/JK/-X | LED         |             |       |
| D612       | SML-310VT/JK/-X | LED         |             |       |
| D613       | SML-310VT/JK/-X | LED         |             |       |
| D614       | SML-310VT/JK/-X | LED         |             |       |

| Symbol No. | Part No.     | Part Name   | Description | Local |
|------------|--------------|-------------|-------------|-------|
| S608       | NSW0206-001X | TACT SWITCH |             |       |
| S609       | NSW0206-001X | TACT SWITCH |             |       |
| S610       | NSW0206-001X | TACT SWITCH |             |       |
| S611       | NSW0206-001X | TACT SWITCH |             |       |
| S612       | NSW0206-001X | TACT SWITCH |             |       |
| S613       | NSW0206-001X | TACT SWITCH |             |       |
| S614       | NSW0206-001X | TACT SWITCH |             |       |
| S616       | NSW0206-001X | TACT SWITCH |             |       |
| S617       | NSW0206-001X | TACT SWITCH |             |       |

## Mechanism control board

Block No. [0][3]

| Symbol No. | Part No.          | Part Name       | Description | Local |
|------------|-------------------|-----------------|-------------|-------|
| IC201      | BA5835FM-X        | IC              |             |       |
| IC251      | BD6671FM-X        | IC              |             |       |
| IC301      | MN2DS0003AA-H     | IC              |             |       |
| IC302      | BA00HC5WF-X       | IC              |             |       |
| IC304      | S-80827CNNB-G-W   | IC              |             |       |
| IC398      | SG32M90TFIR3      | IC(MICRO C ROM) |             |       |
| IC398      | SG32M90TFIR31B    | IC(PROGRAMED)   |             |       |
| IC399      | K4S281632F-UC75   | IC(DIGITAL)     |             |       |
| IC399      | or EDS1216AATA-75 | IC(DIGITAL)     |             |       |
| IC401      | AK4385ET-X        | IC              |             |       |
| IC411      | NJM4565V-X        | IC              |             |       |
| IC481      | BR93L66F-W-X      | IC              |             |       |
| Q101       | 2SB1424/RJ-W      | TRANSISTOR      |             |       |
| Q102       | 2SC4617/RJ-X      | TRANSISTOR      |             |       |
| Q103       | 2SB1424/RJ-W      | TRANSISTOR      |             |       |
| Q104       | 2SC4617/RJ-X      | TRANSISTOR      |             |       |
| Q105       | DTA114EE-X        | DIGI TRANSISTOR |             |       |
| Q231       | DTC114EE-X        | DIGI TRANSISTOR |             |       |
| Q301       | DTC144EE-X        | DIGI TRANSISTOR |             |       |
| Q302       | DTC144EE-X        | DIGI TRANSISTOR |             |       |
| C1         | NCB31CK-104X      | C CAPACITOR     | 0.1uF 16V K |       |
| C2         | NCB31CK-104X      | C CAPACITOR     | 0.1uF 16V K |       |
| C3         | NCB31CK-104X      | C CAPACITOR     | 0.1uF 16V K |       |
| C4         | NCB31CK-104X      | C CAPACITOR     | 0.1uF 16V K |       |
| C5         | NCB31CK-104X      | C CAPACITOR     | 0.1uF 16V K |       |
| C6         | NCB31CK-104X      | C CAPACITOR     | 0.1uF 16V K |       |
| C7         | NCB31CK-104X      | C CAPACITOR     | 0.1uF 16V K |       |
| C8         | NCB31CK-104X      | C CAPACITOR     | 0.1uF 16V K |       |
| C9         | NCB31CK-104X      | C CAPACITOR     | 0.1uF 16V K |       |
| C10        | NCB31CK-104X      | C CAPACITOR     | 0.1uF 16V K |       |
| C11        | NCB31CK-104X      | C CAPACITOR     | 0.1uF 16V K |       |
| C12        | NCB31CK-104X      | C CAPACITOR     | 0.1uF 16V K |       |
| C13        | NCB31CK-104X      | C CAPACITOR     | 0.1uF 16V K |       |
| C14        | NCB31CK-104X      | C CAPACITOR     | 0.1uF 16V K |       |
| C15        | NCB31CK-104X      | C CAPACITOR     | 0.1uF 16V K |       |
| C16        | NCB31CK-104X      | C CAPACITOR     | 0.1uF 16V K |       |
| C17        | NCB31CK-104X      | C CAPACITOR     | 0.1uF 16V K |       |
| C18        | NCB31CK-104X      | C CAPACITOR     | 0.1uF 16V K |       |
| C19        | NCB31CK-104X      | C CAPACITOR     | 0.1uF 16V K |       |
| C20        | NCB31CK-104X      | C CAPACITOR     | 0.1uF 16V K |       |
| C21        | NCB31CK-104X      | C CAPACITOR     | 0.1uF 16V K |       |
| C101       | NCB31CK-104X      | C CAPACITOR     | 0.1uF 16V K |       |
| C102       | NCB31CK-104X      | C CAPACITOR     | 0.1uF 16V K |       |
| C103       | NCB31CK-104X      | C CAPACITOR     | 0.1uF 16V K |       |
| C104       | NCB31CK-104X      | C CAPACITOR     | 0.1uF 16V K |       |
| C105       | NBE41AM-476X      | TA E CAPACITOR  | 47uF 10V M  |       |
| C106       | NBE41AM-476X      | TA E CAPACITOR  | 47uF 10V M  |       |
| C107       | NCB31CK-104X      | C CAPACITOR     | 0.1uF 16V K |       |
| C108       | NBE41AM-476X      | TA E CAPACITOR  | 47uF 10V M  |       |
| C111       | NCB31CK-104X      | C CAPACITOR     | 0.1uF 16V K |       |
| C112       | NCB31CK-104X      | C CAPACITOR     | 0.1uF 16V K |       |
| C113       | NCB31CK-104X      | C CAPACITOR     | 0.1uF 16V K |       |
| C201       | NEAF1CM-107X      | E CAPACITOR     | 100uF 16V M |       |
| C202       | NCB31CK-104X      | C CAPACITOR     | 0.1uF 16V K |       |
| C203       | NCS31HJ-271X      | C CAPACITOR     | 270pF 50V J |       |
| C204       | NDC31HJ-151X      | C CAPACITOR     | 150pF 50V J |       |

| Symbol No. | Part No.     | Part Name      | Description   | Local |
|------------|--------------|----------------|---------------|-------|
| C205       | NCB31HK-681X | C CAPACITOR    | 680pF 50V K   |       |
| C206       | NCB31HK-561X | C CAPACITOR    | 560pF 50V K   |       |
| C211       | NEAF1CM-107X | E CAPACITOR    | 100uF 16V M   |       |
| C212       | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C213       | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C221       | NCB31HK-223X | C CAPACITOR    | 0.022uF 50V K |       |
| C222       | NCB31HK-103X | C CAPACITOR    | 0.01uF 50V K  |       |
| C251       | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C252       | NEAF1CM-107X | E CAPACITOR    | 100uF 16V M   |       |
| C253       | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C254       | NBE21AM-106X | TA E CAPACITOR | 10uF 10V M    |       |
| C255       | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C256       | NCB31CK-473X | C CAPACITOR    | 0.047uF 16V K |       |
| C257       | NCB31HK-102X | C CAPACITOR    | 1000pF 50V K  |       |
| C258       | NCB31HK-102X | C CAPACITOR    | 1000pF 50V K  |       |
| C259       | NCB31HK-102X | C CAPACITOR    | 1000pF 50V K  |       |
| C264       | NCB31HK-103X | C CAPACITOR    | 0.01uF 50V K  |       |
| C265       | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C266       | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C267       | NCB31HK-103X | C CAPACITOR    | 0.01uF 50V K  |       |
| C268       | NCB31HK-153X | C CAPACITOR    | 0.015uF 50V K |       |
| C301       | NEAF0GM-227X | E CAPACITOR    | 220uF 4V M    |       |
| C302       | NBE40JM-476X | TA E CAPACITOR | 47uF 6.3V M   |       |
| C305       | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C307       | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C308       | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C309       | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C310       | NCB31HK-102X | C CAPACITOR    | 1000pF 50V K  |       |
| C311       | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C312       | NCB21CK-105X | C CAPACITOR    | 1uF 16V K     |       |
| C313       | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C314       | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C315       | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C316       | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C317       | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C318       | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C319       | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C320       | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C321       | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C322       | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C323       | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C324       | NCB21CK-105X | C CAPACITOR    | 1uF 16V K     |       |
| C325       | NDC31HJ-100X | C CAPACITOR    | 10pF 50V J    |       |
| C326       | NDC31HJ-100X | C CAPACITOR    | 10pF 50V J    |       |
| C330       | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C331       | NCB31CK-333X | C CAPACITOR    | 0.033uF 16V K |       |
| C332       | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C333       | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C334       | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C335       | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C337       | NCB31HK-183X | C CAPACITOR    | 0.018uF 50V K |       |
| C338       | NCB31HK-562X | C CAPACITOR    | 560pF 50V K   |       |
| C339       | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C340       | NCB21CK-105X | C CAPACITOR    | 1uF 16V K     |       |
| C341       | NCB21CK-105X | C CAPACITOR    | 1uF 16V K     |       |
| C347       | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C348       | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C349       | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C350       | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C351       | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C352       | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C356       | NCB21CK-105X | C CAPACITOR    | 1uF 16V K     |       |
| C364       | NBE40JM-476X | TA E CAPACITOR | 47uF 6.3V M   |       |
| C365       | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C366       | NCB21CK-105X | C CAPACITOR    | 1uF 16V K     |       |
| C369       | NBE40JM-476X | TA E CAPACITOR | 47uF 6.3V M   |       |
| C371       | NCB21CK-105X | C CAPACITOR    | 1uF 16V K     |       |
| C380       | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C384       | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C391       | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C392       | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C393       | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C395       | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C396       | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C397       | NBE20JM-226X | TA E CAPACITOR | 22uF 6.3V M   |       |
| C398       | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C399       | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |

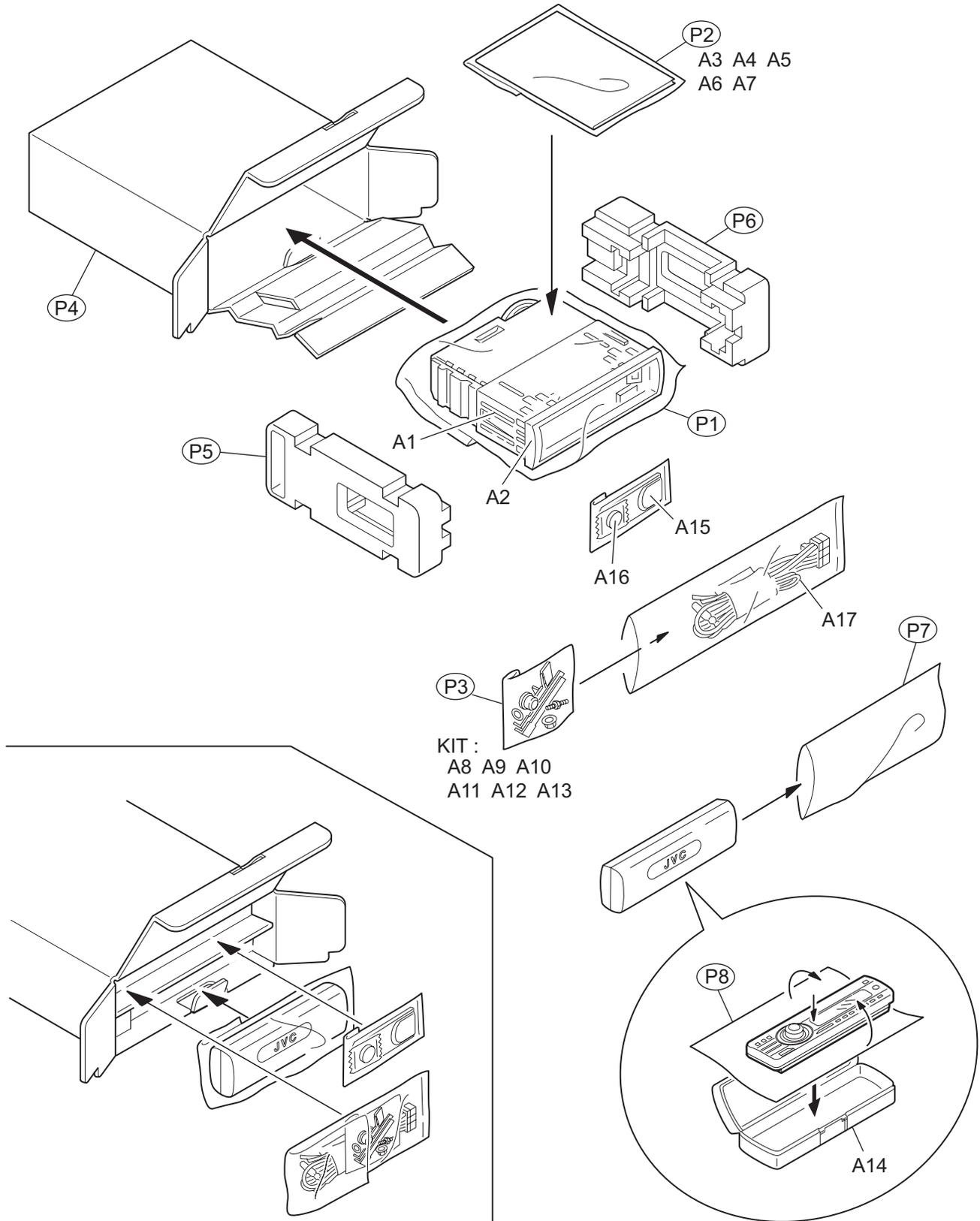
| Symbol No. | Part No.     | Part Name      | Description   | Local | Symbol No. | Part No.     | Part Name   | Description   | Local |
|------------|--------------|----------------|---------------|-------|------------|--------------|-------------|---------------|-------|
| C401       | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       | R260       | NRSA63J-470X | MG RESISTOR | 47Ω 1/16W J   |       |
| C402       | NBE41AM-476X | TA E CAPACITOR | 47uF 10V M    |       | R300       | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       |
| C403       | NCB31HK-331X | C CAPACITOR    | 330pF 50V K   |       | R301       | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       |
| C404       | NCB31CK-473X | C CAPACITOR    | 0.047uF 16V K |       | R303       | NRSA63J-270X | MG RESISTOR | 27Ω 1/16W J   |       |
| C411       | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       | R306       | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   |       |
| C412       | NBE41AM-476X | TA E CAPACITOR | 47uF 10V M    |       | R307       | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   |       |
| C421       | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       | R308       | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J  |       |
| C422       | NBE41AM-476X | TA E CAPACITOR | 47uF 10V M    |       | R309       | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J |       |
| C431       | NCB31HK-332X | C CAPACITOR    | 3300pF 50V K  |       | R310       | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   |       |
| C432       | NCS31HJ-471X | C CAPACITOR    | 470pF 50V J   |       | R312       | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       |
| C433       | NCS31HJ-471X | C CAPACITOR    | 470pF 50V J   |       | R313       | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       |
| C451       | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       | R314       | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       |
| C452       | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       | R315       | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       |
| C453       | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       | R316       | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       |
| C454       | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       | R317       | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J  |       |
| C481       | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       | R318       | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J  |       |
| C491       | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       | R319       | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J  |       |
| C521       | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       | R321       | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       |
| C522       | NBE41AM-476X | TA E CAPACITOR | 47uF 10V M    |       | R322       | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       |
| C531       | NCB31HK-332X | C CAPACITOR    | 3300pF 50V K  |       | R323       | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       |
| C532       | NCS31HJ-471X | C CAPACITOR    | 470pF 50V J   |       | R325       | NRSA63J-161X | MG RESISTOR | 160Ω 1/16W J  |       |
| C533       | NCS31HJ-471X | C CAPACITOR    | 470pF 50V J   |       | R326       | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J  |       |
| R101       | NRSA63J-0R0X | MG RESISTOR    | 0Ω 1/16W J    |       | R327       | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J  |       |
| R102       | NRSA63J-0R0X | MG RESISTOR    | 0Ω 1/16W J    |       | R328       | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J  |       |
| R103       | NRSA63J-243X | MG RESISTOR    | 24kΩ 1/16W J  |       | R329       | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J  |       |
| R104       | NRSA63J-303X | MG RESISTOR    | 30kΩ 1/16W J  |       | R332       | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   |       |
| R105       | NRS125J-270X | MG RESISTOR    | 27Ω 1/2W J    |       | R333       | NRSA63J-163X | MG RESISTOR | 16kΩ 1/16W J  |       |
| R106       | NRSA63J-2R2X | MG RESISTOR    | 2.2Ω 1/16W J  |       | R334       | NRSA63J-151X | MG RESISTOR | 150Ω 1/16W J  |       |
| R107       | NRSA63J-101X | MG RESISTOR    | 100Ω 1/16W J  |       | R335       | NRSA63J-151X | MG RESISTOR | 150Ω 1/16W J  |       |
| R108       | NRSA63J-471X | MG RESISTOR    | 470Ω 1/16W J  |       | R336       | NRSA63J-151X | MG RESISTOR | 150Ω 1/16W J  |       |
| R109       | NRSA63J-331X | MG RESISTOR    | 330Ω 1/16W J  |       | R337       | NRSA63J-151X | MG RESISTOR | 150Ω 1/16W J  |       |
| R110       | NRSA63J-0R0X | MG RESISTOR    | 0Ω 1/16W J    |       | R338       | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       |
| R111       | NRSA63J-243X | MG RESISTOR    | 24kΩ 1/16W J  |       | R339       | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       |
| R112       | NRSA63J-303X | MG RESISTOR    | 30kΩ 1/16W J  |       | R340       | NRSA63D-303X | MG RESISTOR | 30kΩ 1/16W D  |       |
| R113       | NRS125J-270X | MG RESISTOR    | 27Ω 1/2W J    |       | R345       | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       |
| R114       | NRSA63J-2R2X | MG RESISTOR    | 2.2Ω 1/16W J  |       | R346       | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |       |
| R115       | NRSA63J-101X | MG RESISTOR    | 100Ω 1/16W J  |       | R347       | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |       |
| R116       | NRSA63J-471X | MG RESISTOR    | 470Ω 1/16W J  |       | R348       | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |       |
| R117       | NRSA63J-331X | MG RESISTOR    | 330Ω 1/16W J  |       | R349       | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |       |
| R118       | NRSA63J-0R0X | MG RESISTOR    | 0Ω 1/16W J    |       | R350       | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J   |       |
| R119       | NRSA63J-0R0X | MG RESISTOR    | 0Ω 1/16W J    |       | R351       | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   |       |
| R120       | NRSA63J-0R0X | MG RESISTOR    | 0Ω 1/16W J    |       | R352       | NRSA63J-105X | MG RESISTOR | 1MΩ 1/16W J   |       |
| R122       | NRSA63J-0R0X | MG RESISTOR    | 0Ω 1/16W J    |       | R353       | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J  |       |
| R123       | NRSA63J-0R0X | MG RESISTOR    | 0Ω 1/16W J    |       | R354       | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J  |       |
| R125       | NRS125J-1R0X | MG RESISTOR    | 1Ω 1/2W J     |       | R355       | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       |
| R126       | NRSA02J-330X | MG RESISTOR    | 33Ω 1/10W J   |       | R356       | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       |
| R201       | NRS125J-1R0X | MG RESISTOR    | 1Ω 1/2W J     |       | R357       | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       |
| R202       | NRSA63J-473X | MG RESISTOR    | 47kΩ 1/16W J  |       | R358       | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       |
| R203       | NRSA63J-303X | MG RESISTOR    | 30kΩ 1/16W J  |       | R359       | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J   |       |
| R204       | NRSA63J-273X | MG RESISTOR    | 27kΩ 1/16W J  |       | R360       | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J   |       |
| R205       | NRSA63J-273X | MG RESISTOR    | 27kΩ 1/16W J  |       | R361       | NQL093K-1R8X | COIL        | 1.8uH K       |       |
| R206       | NRSA63J-0R0X | MG RESISTOR    | 0Ω 1/16W J    |       | R362       | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       |
| R207       | NRSA63J-0R0X | MG RESISTOR    | 0Ω 1/16W J    |       | R363       | NRSA63J-151X | MG RESISTOR | 150Ω 1/16W J  |       |
| R208       | NRSA63J-203X | MG RESISTOR    | 20kΩ 1/16W J  |       | R364       | NRSA63J-151X | MG RESISTOR | 150Ω 1/16W J  |       |
| R209       | NRSA63J-223X | MG RESISTOR    | 22kΩ 1/16W J  |       | R365       | NRSA63D-911X | MG RESISTOR | 910Ω 1/16W D  |       |
| R211       | NRSA63J-0R0X | MG RESISTOR    | 0Ω 1/16W J    |       | R366       | NRSA63D-202X | MG RESISTOR | 2kΩ 1/16W D   |       |
| R219       | NRSA63J-153X | MG RESISTOR    | 15kΩ 1/16W J  |       | R370       | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       |
| R220       | NRSA63J-183X | MG RESISTOR    | 18kΩ 1/16W J  |       | R372       | NRSA63J-331X | MG RESISTOR | 330Ω 1/16W J  |       |
| R221       | NRSA63J-103X | MG RESISTOR    | 10kΩ 1/16W J  |       | R373       | NRSA63J-331X | MG RESISTOR | 330Ω 1/16W J  |       |
| R222       | NRSA63J-103X | MG RESISTOR    | 10kΩ 1/16W J  |       | R380       | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   |       |
| R223       | NRSA63J-0R0X | MG RESISTOR    | 0Ω 1/16W J    |       | R384       | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   |       |
| R224       | NRSA63J-103X | MG RESISTOR    | 10kΩ 1/16W J  |       | R385       | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   |       |
| R231       | NRSA63J-272X | MG RESISTOR    | 2.7kΩ 1/16W J |       | R386       | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       |
| R232       | NRSA63J-153X | MG RESISTOR    | 15kΩ 1/16W J  |       | R390       | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       |
| R233       | NRSA63J-0R0X | MG RESISTOR    | 0Ω 1/16W J    |       | R391       | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       |
| R234       | NRSA63J-394X | MG RESISTOR    | 390kΩ 1/16W J |       | R392       | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       |
| R235       | NRSA63J-682X | MG RESISTOR    | 6.8kΩ 1/16W J |       | R393       | NRSA63J-121X | MG RESISTOR | 120Ω 1/16W J  |       |
| R251       | NRS125J-R47X | MG RESISTOR    | 0.47Ω 1/2W J  |       | R394       | NRSA63J-121X | MG RESISTOR | 120Ω 1/16W J  |       |
| R252       | NRSA63J-103X | MG RESISTOR    | 10kΩ 1/16W J  |       | R396       | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |       |
| R253       | NRSA63J-0R0X | MG RESISTOR    | 0Ω 1/16W J    |       | R399       | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       |
| R254       | NRSA63J-103X | MG RESISTOR    | 10kΩ 1/16W J  |       | R401       | NRSA63J-100X | MG RESISTOR | 10Ω 1/16W J   |       |
| R255       | NRSA63J-203X | MG RESISTOR    | 20kΩ 1/16W J  |       | R402       | NRSA63J-4R7X | MG RESISTOR | 4.7Ω 1/16W J  |       |
| R256       | NRSA63J-470X | MG RESISTOR    | 47Ω 1/16W J   |       | R403       | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       |
| R257       | NRSA63J-0R0X | MG RESISTOR    | 0Ω 1/16W J    |       | R404       | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |       |
| R258       | NRSA63J-103X | MG RESISTOR    | 10kΩ 1/16W J  |       | R411       | NRSA63J-100X | MG RESISTOR | 10Ω 1/16W J   |       |
| R259       | NRSA63J-103X | MG RESISTOR    | 10kΩ 1/16W J  |       | R421       | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   |       |
|            |              |                |               |       | R422       | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   |       |

| Symbol No. | Part No.      | Part Name     | Description    | Local |
|------------|---------------|---------------|----------------|-------|
| R431       | NRSA63J-472X  | MG RESISTOR   | 4.7kΩ 1/16W J  |       |
| R432       | NRSA63J-472X  | MG RESISTOR   | 4.7kΩ 1/16W J  |       |
| R433       | NRSA63J-223X  | MG RESISTOR   | 22kΩ 1/16W J   |       |
| R434       | NRSA63J-201X  | MG RESISTOR   | 200Ω 1/16W J   |       |
| R435       | NRSA63J-472X  | MG RESISTOR   | 4.7kΩ 1/16W J  |       |
| R436       | NRSA63J-201X  | MG RESISTOR   | 200Ω 1/16W J   |       |
| R437       | NRSA63J-472X  | MG RESISTOR   | 4.7kΩ 1/16W J  |       |
| R438       | NRSA63J-223X  | MG RESISTOR   | 22kΩ 1/16W J   |       |
| R441       | NRSA63J-0R0X  | MG RESISTOR   | 0Ω 1/16W J     |       |
| R442       | NRSA63J-0R0X  | MG RESISTOR   | 0Ω 1/16W J     |       |
| R481       | NRSA63J-103X  | MG RESISTOR   | 10kΩ 1/16W J   |       |
| R491       | NRSA63J-103X  | MG RESISTOR   | 10kΩ 1/16W J   |       |
| R492       | NRSA63J-472X  | MG RESISTOR   | 4.7kΩ 1/16W J  |       |
| R521       | NRSA63J-102X  | MG RESISTOR   | 1kΩ 1/16W J    |       |
| R522       | NRSA63J-102X  | MG RESISTOR   | 1kΩ 1/16W J    |       |
| R531       | NRSA63J-472X  | MG RESISTOR   | 4.7kΩ 1/16W J  |       |
| R532       | NRSA63J-472X  | MG RESISTOR   | 4.7kΩ 1/16W J  |       |
| R533       | NRSA63J-223X  | MG RESISTOR   | 22kΩ 1/16W J   |       |
| R534       | NRSA63J-201X  | MG RESISTOR   | 200Ω 1/16W J   |       |
| R535       | NRSA63J-472X  | MG RESISTOR   | 4.7kΩ 1/16W J  |       |
| R536       | NRSA63J-201X  | MG RESISTOR   | 200Ω 1/16W J   |       |
| R537       | NRSA63J-472X  | MG RESISTOR   | 4.7kΩ 1/16W J  |       |
| R538       | NRSA63J-223X  | MG RESISTOR   | 22kΩ 1/16W J   |       |
| R605       | NRSA63J-0R0X  | MG RESISTOR   | 0Ω 1/16W J     |       |
| R606       | NRSA63J-0R0X  | MG RESISTOR   | 0Ω 1/16W J     |       |
| L303       | NQL044K-100X  | COIL          | 0.26Ω 10uH K   |       |
| L305       | NQL093K-1R8X  | COIL          | 1.8uH K        |       |
| L306       | NQL093K-1R8X  | COIL          | 1.8uH K        |       |
| L307       | NQL093K-1R8X  | COIL          | 1.8uH K        |       |
| L451       | NQL044K-100X  | COIL          | 0.26Ω 10uH K   |       |
| CN101      | QGF0522F1-30W | CONNECTOR     | FFC/FPC (1-30) |       |
| CN201      | QGF1038F1-11X | CONNECTOR     | FFC/FPC (1-11) |       |
| CN202      | QGF0523F1-05W | CONNECTOR     | FFC/FPC (1-5)  |       |
| CN402      | QGF0522F1-06W | CONNECTOR     | FFC/FPC (1-6)  |       |
| CN403      | QGF0534F1-45X | CONNECTOR     | FFC/FPC (1-45) |       |
| K101       | NQR0007-002X  | FERRITE BEADS |                |       |
| K102       | NQR0007-002X  | FERRITE BEADS |                |       |
| K301       | NQR0502-001X  | FERRITE BEADS |                |       |
| K311       | NQR0129-002X  | FERRITE BEADS |                |       |
| K399       | NQR0502-001X  | FERRITE BEADS |                |       |
| K401       | NQR0022-005X  | FERRITE BEADS |                |       |
| K402       | NQR0022-005X  | FERRITE BEADS |                |       |
| K403       | NQR0022-005X  | FERRITE BEADS |                |       |
| K404       | NQR0022-005X  | FERRITE BEADS |                |       |
| K405       | NQR0022-005X  | FERRITE BEADS |                |       |
| K406       | NQR0022-005X  | FERRITE BEADS |                |       |
| K407       | NQR0022-005X  | FERRITE BEADS |                |       |
| K425       | NQL093K-1R8X  | COIL          | 1.8uH K        |       |
| K441       | NQR0022-005X  | FERRITE BEADS |                |       |
| K442       | NQR0022-005X  | FERRITE BEADS |                |       |
| K443       | NQR0022-005X  | FERRITE BEADS |                |       |
| K444       | NQR0022-005X  | FERRITE BEADS |                |       |
| K445       | NQR0022-005X  | FERRITE BEADS |                |       |
| K451       | NQR0022-005X  | FERRITE BEADS |                |       |
| K452       | NQR0022-005X  | FERRITE BEADS |                |       |
| K601       | NQR0022-005X  | FERRITE BEADS |                |       |
| SW4        | NSW0184-001X  | DETECT SW     |                |       |
| SW5        | NSW0183-001X  | DETECT SW     |                |       |
| TH491      | NAD0025-103X  | N THERMISTOR  | 10kΩ           |       |
| X351       | NAX0730-001X  | CRYSTAL       |                |       |

# Packing materials and accessories parts list

Block No. **M** **3** **M** **M**

No additional / supplemental order of WARRANTY CARDS are available.



# Packing and Accessories

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

| △ Symbol No. | Part No.      | Part Name         | Description           | Local |
|--------------|---------------|-------------------|-----------------------|-------|
| A 1          | GE20137-003A  | MOUNTING SLEEVE   |                       |       |
| A 2          | GE20149-014A  | TRIM PLATE        |                       |       |
| A 3          | GET0277-001B  | INST BOOK         | ENG SPA FRE           |       |
| A 4          | GET0277-002A  | INSTALL MANUAL    | ENG SPA FRE           |       |
| A 5          | -----         | WARRANTY CARD     | BT-52006-2            |       |
| A 6          | -----         | WARRANTY CARD     | BT-51018-4            |       |
| A 7          | BT-51034-2    | REGISTRATION CARD |                       |       |
| A 8          | VKZ4027-202   | PLUG NUT          |                       |       |
| A 9          | VKH4871-003   | MOUNT BOLT        |                       |       |
| A 10         | VKZ4328-003   | LOCK NUT          |                       |       |
| A 11         | QYWWS53A008ZA | WASHER            | 0mm/5.3mm x           |       |
| A 12         | GE40130-002A  | HOOK              | (x2)                  |       |
| A 13         | LV41478-002A  | CORD CONNECTOR    |                       |       |
| A 14         | FSJB3002-30C  | HARD CASE         |                       |       |
| A 15         | RM-RK230      | REMOCON UNIT      |                       |       |
| A 16         | -----         | BATTERY           |                       |       |
| A 17         | QAM0453-002   | POWER CORD        |                       |       |
| KIT          | SRW-DV5100J   | SCREW PART KIT    | A8 A9 A10 A11 A12 A13 |       |
| P 1          | QPC03004315P  | POLY BAG          | 30cm x 43cm           |       |
| P 2          | FSPG4002-001  | POLY BAG          |                       |       |
| P 3          | QPA00801205   | POLY BAG          | 8cm x 12cm            |       |
| P 4          | GE31510-001A  | CARTON            |                       |       |
| P 5          | LV10777-R02A  | CUSHION(L)        |                       |       |
| P 6          | LV10778-R02A  | CUSHION(R)        |                       |       |
| P 7          | QPA01003003   | POLY BAG          | 10cm x 30cm           |       |
| P 8          | FSYH4036-068  | SHEET             |                       |       |

# JVC

# SCHEMATIC DIAGRAMS

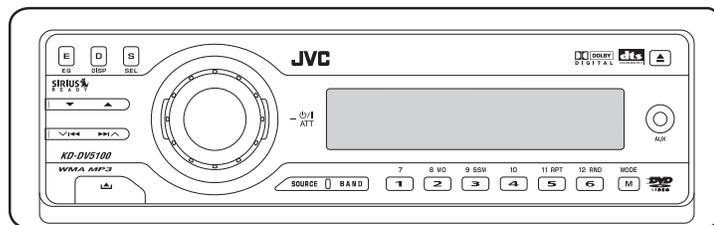
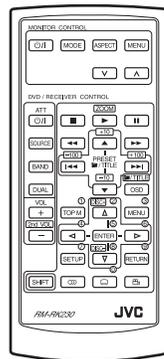
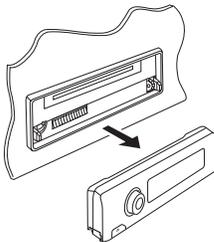
## DVD/CD RECEIVER

# KD-DV5100

CD-ROM No.SML200502

Area suffix

J ----- Northern America



**WMA  
MP3**

**SIRIUS  
READY**

**DOLBY  
DIGITAL**

**dts  
2.0+DIGITAL OUT**

**DVD  
VIDEO**

**COMPACT  
disc  
DIGITAL VIDEO**

### Contents

|                                   |           |
|-----------------------------------|-----------|
| Block diagram .....               | 2-1       |
| Standard schematic diagrams ..... | 2-3       |
| Printed circuit boards .....      | 2-9 to 13 |

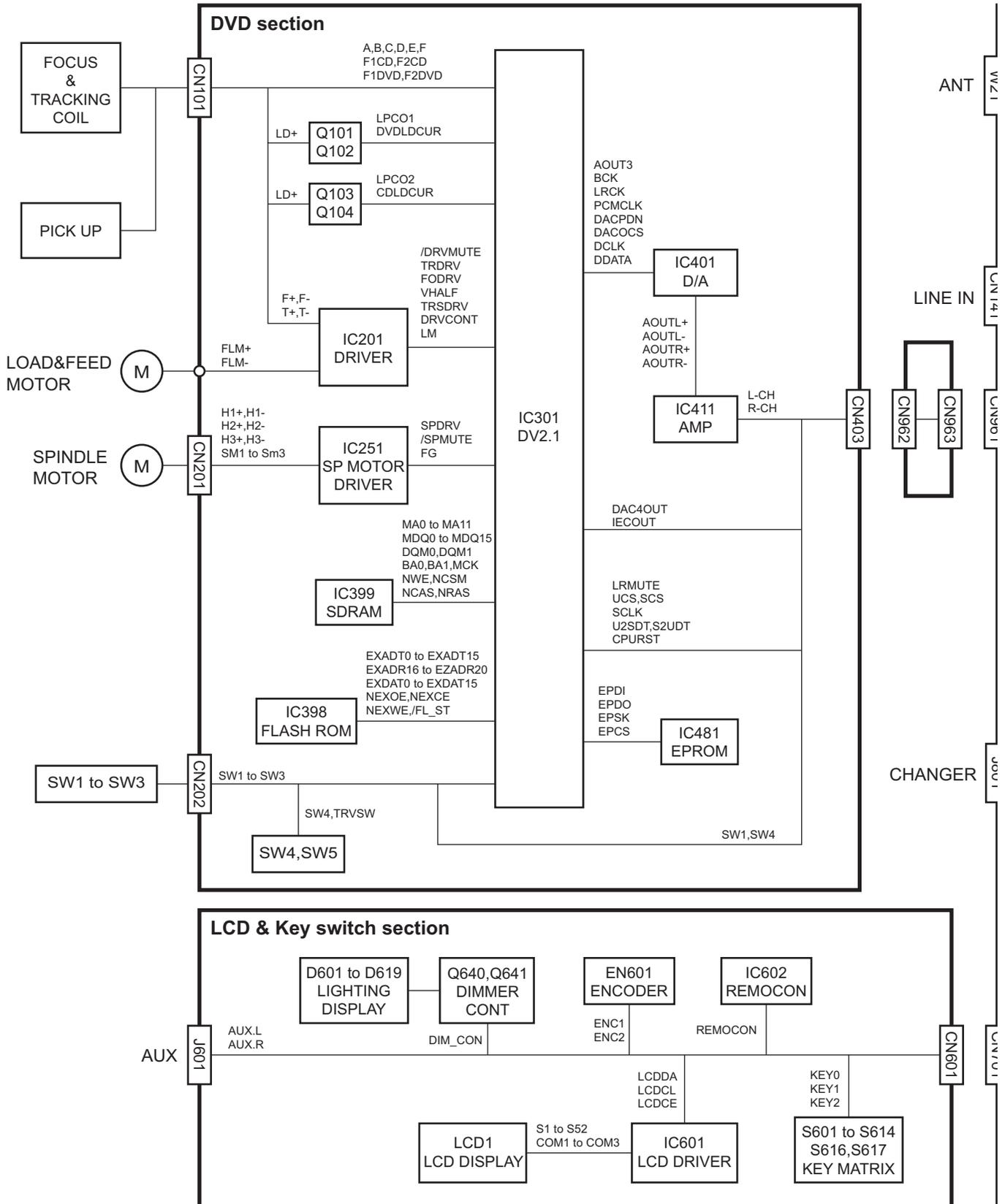
## Safety precaution

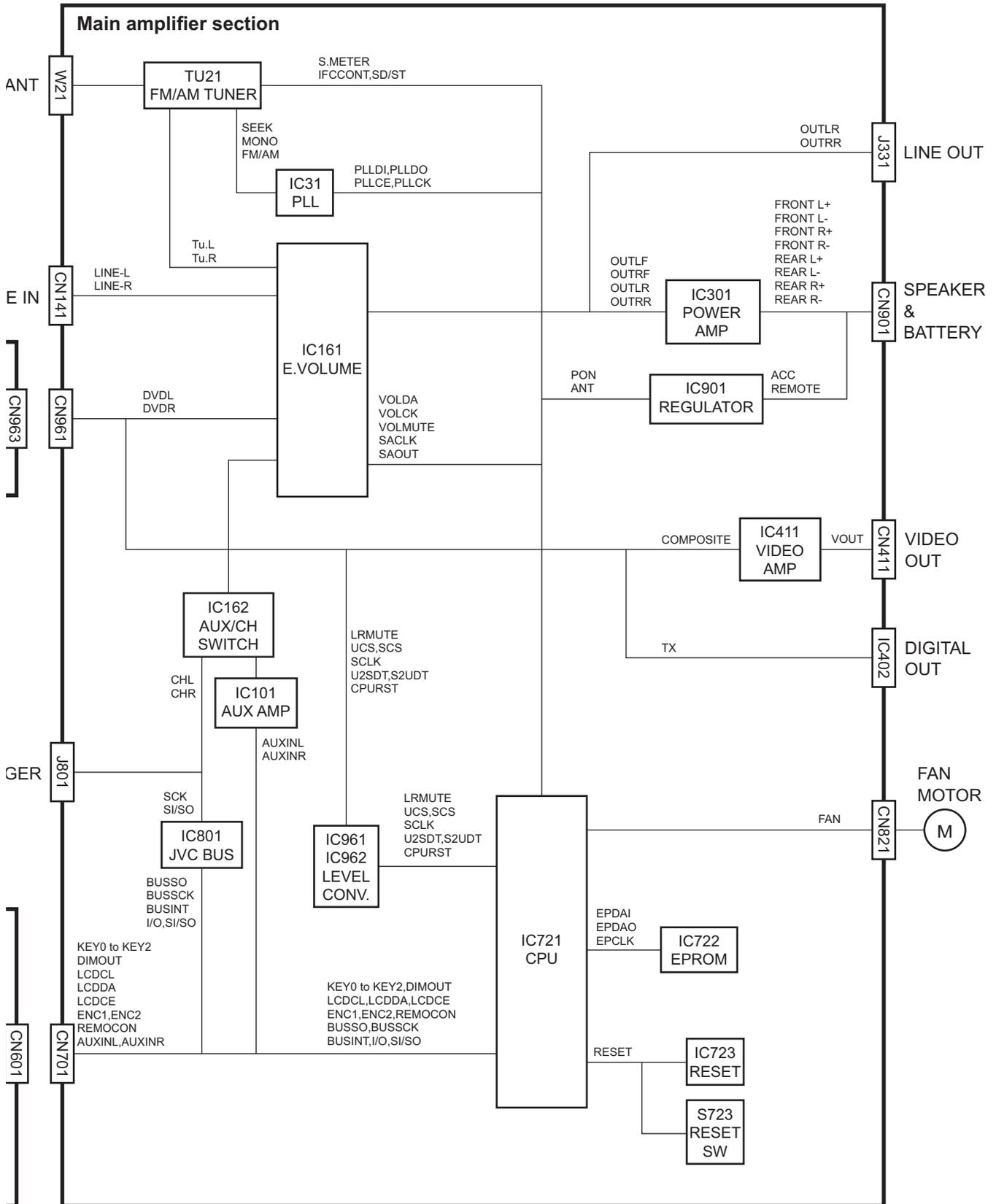
 **CAUTION** Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of performing repair of this system.

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

< MEMO >

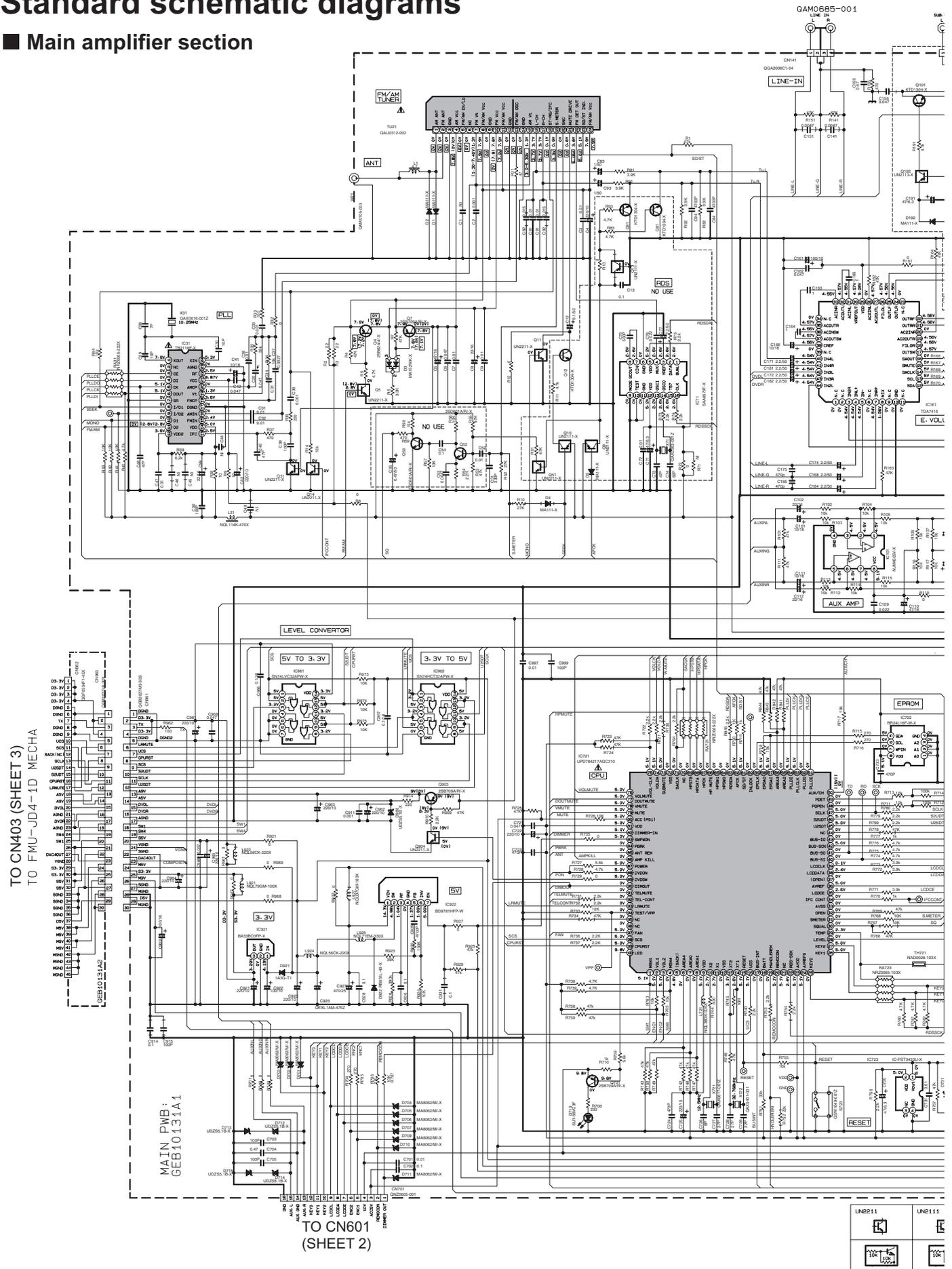
# Block diagram

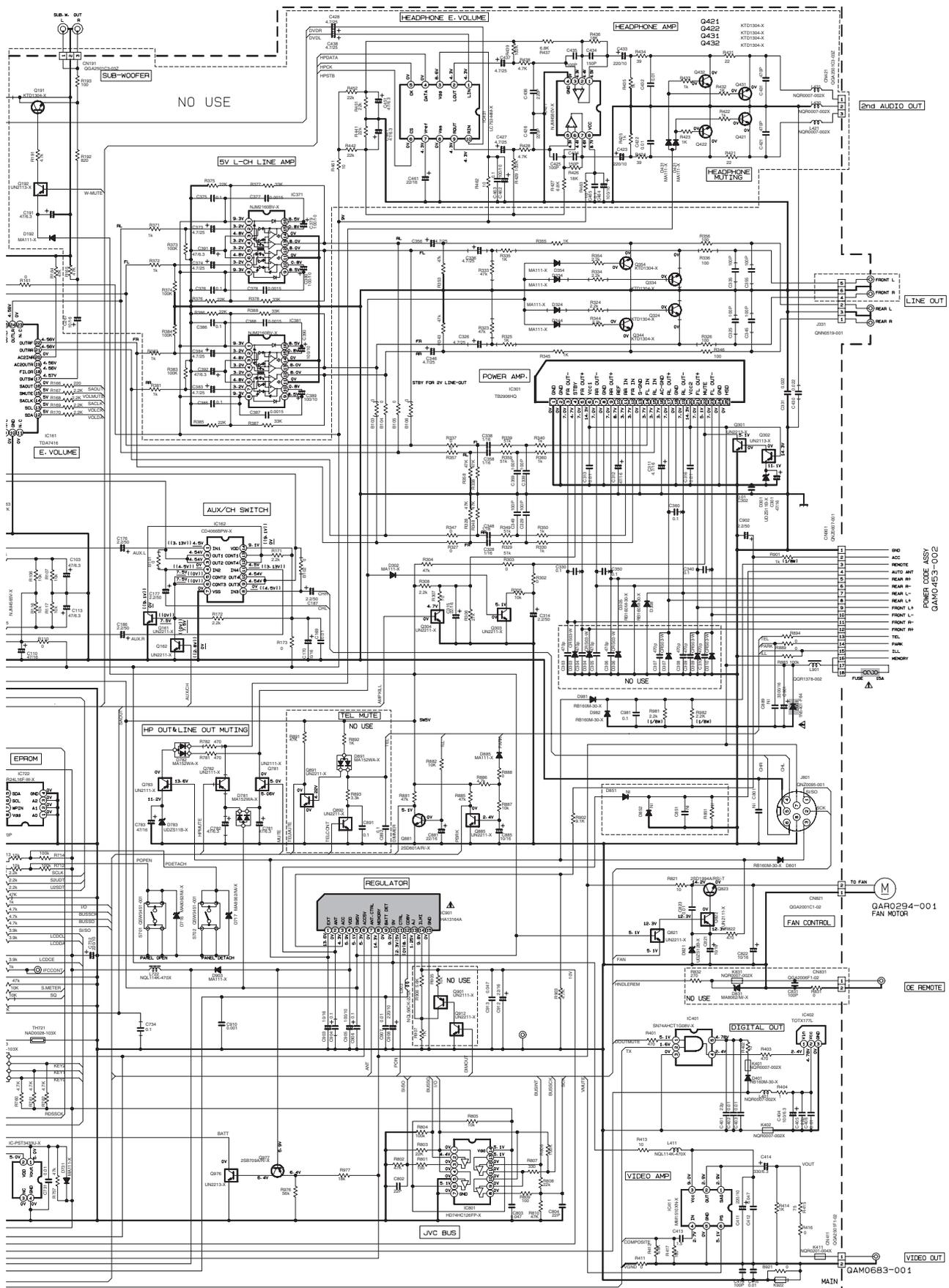




# Standard schematic diagrams

## ■ Main amplifier section

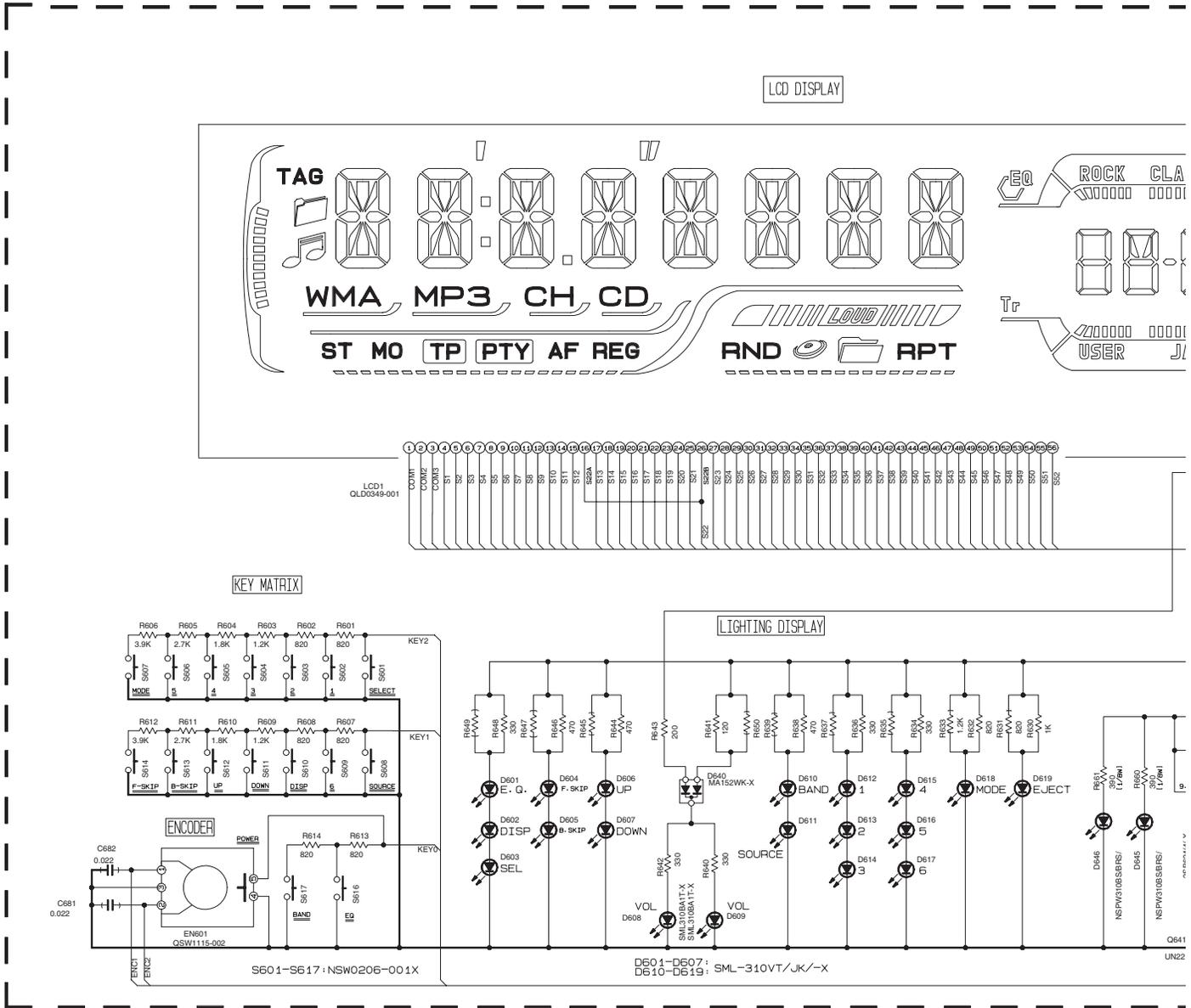




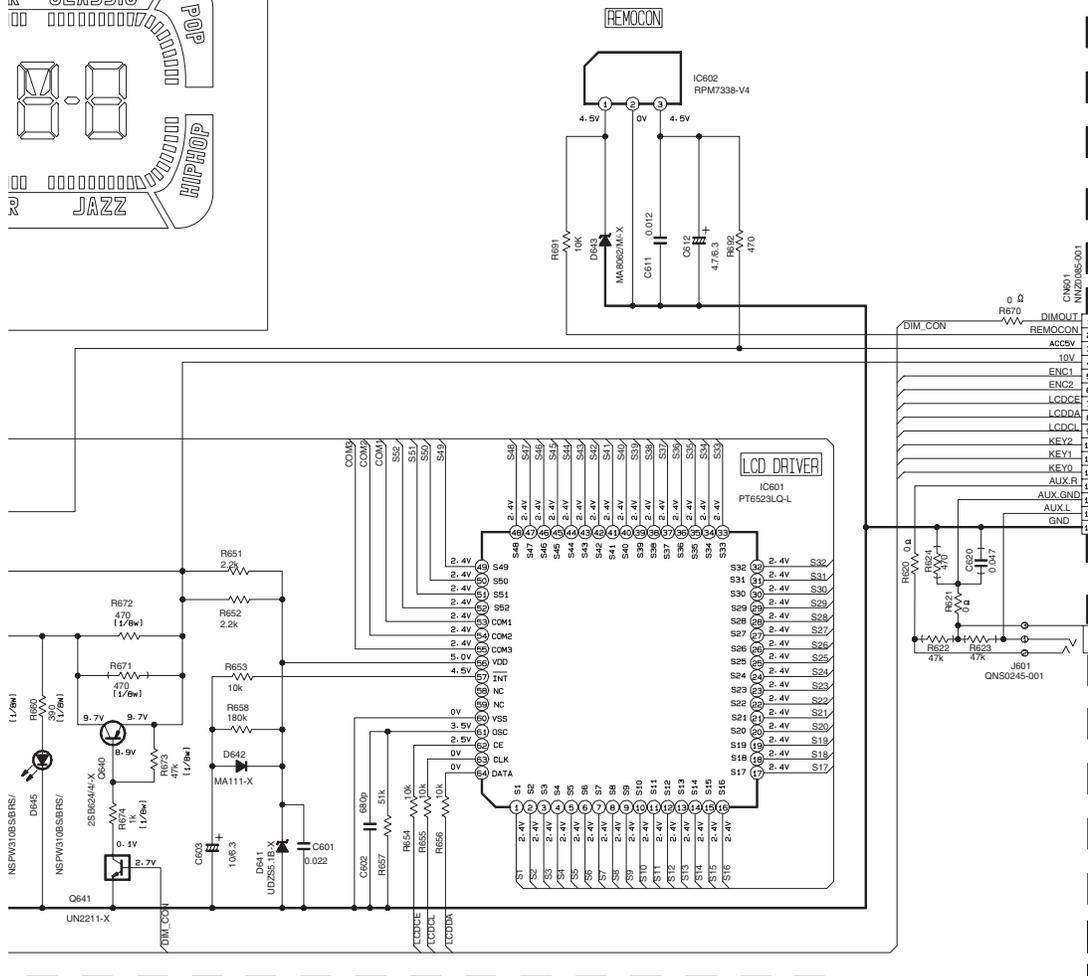
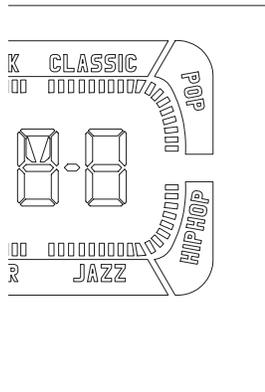
- NOTES
- VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.  
CONDITION — DVD MODE: ( ) FM MODE: ( ) AM MODE: ( ) CH MODE: ( ) AUX MODE
  - UNLESS OTHERWISE SPECIFIED.  
ALL RESISTORS ARE 1/10W ±5% METAL GLAZE RESISTOR.  
ALL CAPACITORS ARE 50V OR 25V CERAMIC CAPACITOR.  
ALL RESISTANCE VALUES ARE IN OHM.  
ALL CAPACITANCE VALUES ARE IN μF (P=PF)  
ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE(V)  
F — FILM CAPACITOR
  - NE STANDS FOR NOT MOUNTED PARTS

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

# ■ LCD & Key switch section



SW PWB : GEB10134A

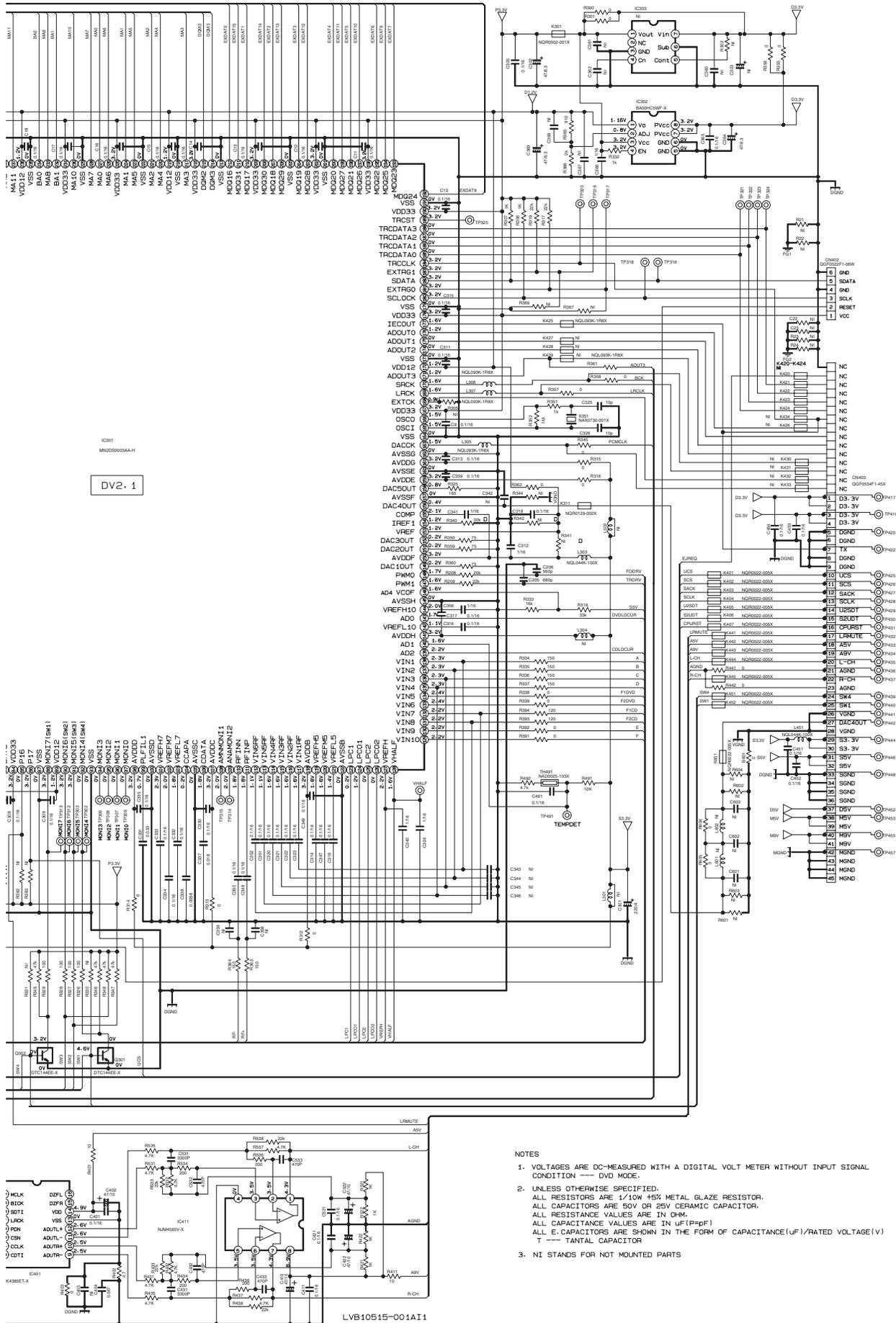


TO CN701  
(SHEET 1)

|  |     |        |
|--|-----|--------|
|  | 10K | UN2211 |
|  | 10K | UN2111 |

- NOTES
- VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
  - UNLESS OTHERWISE SPECIFIED, ALL RESISTORS ARE 1/16W METAL GLAZE RESISTORS. ALL CAPACITORS ARE 50V OR 25V CERAMIC CAPACITOR. ALL RESISTANCE VALUES ARE IN OHM. ALL CAPACITANCE VALUES ARE IN uF (P=PF) ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(uF)/RATED VOLTAGE(V) T --- TANTALUM CAPACITOR.
  - COMPONENTS IN ( ) INDICATE NOT USE.





DV2.1

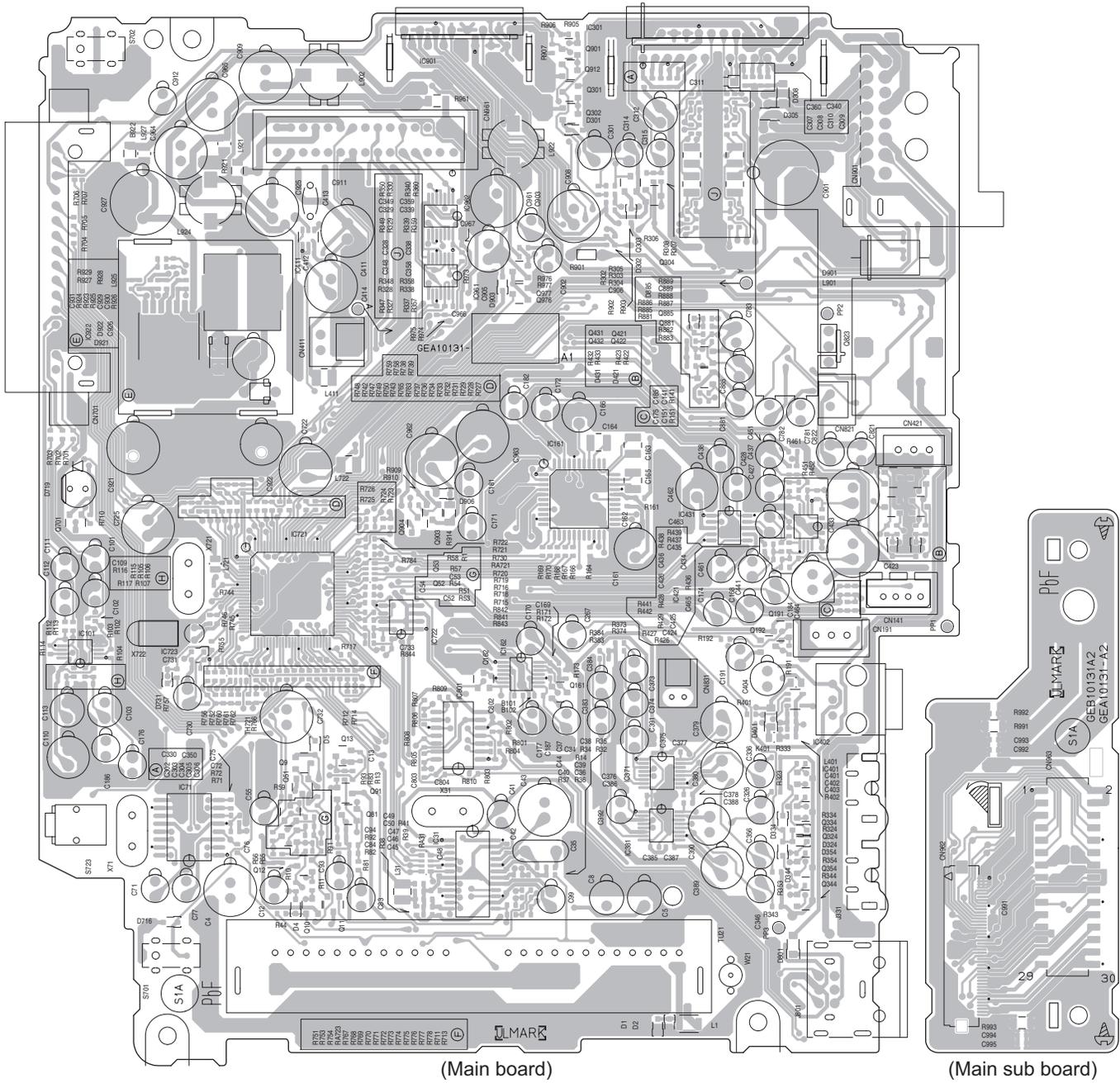
TO CN962 (SHEET 1)

- NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL CONDITION --- DVD MODE.
  2. UNLESS OTHERWISE SPECIFIED, ALL RESISTORS ARE 1/10W 4% METAL GLAZE RESISTOR. ALL CAPACITORS ARE 50V OR 25V CERAMIC CAPACITOR. ALL RESISTANCE VALUES ARE IN OHM. ALL CAPACITANCE VALUES ARE IN uF(PpF) ALL E- CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(uF)/RATED VOLTAGE(V) T --- TANTALUM CAPACITOR
  3. NI STANDS FOR NOT MOUNTED PARTS

# Printed circuit boards

## ■ Main board

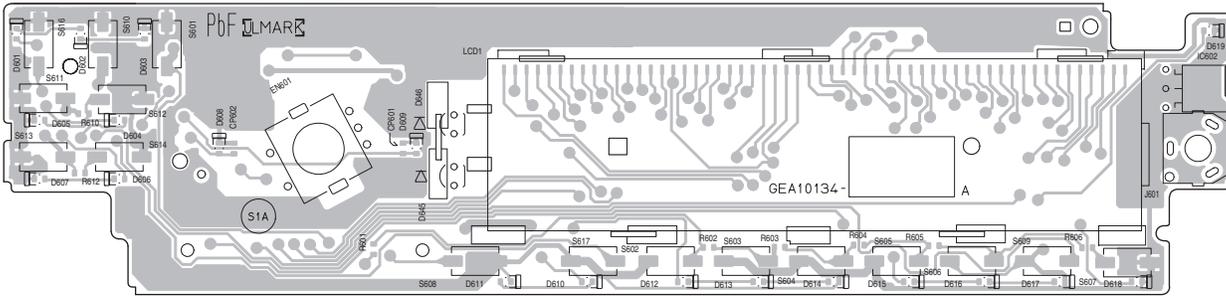
Forward side



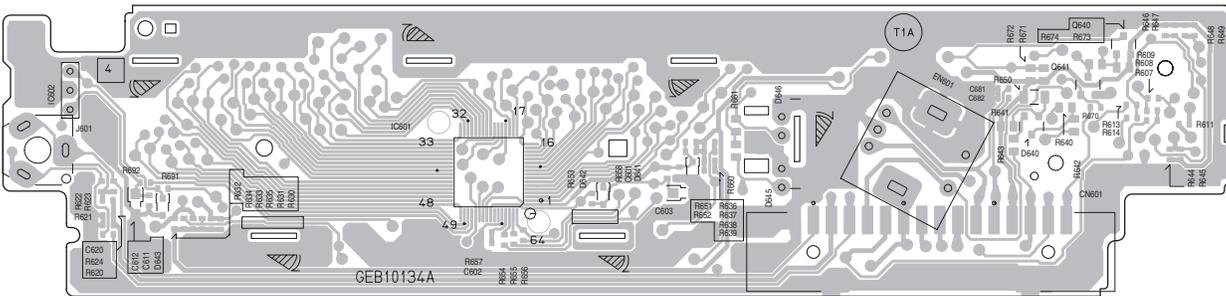


# Switch board

Forward side



Reverse side







< MEMO >

**JVC**

Victor Company of Japan, Limited

AV & MULTIMEDIA COMPANY CAR ELECTRONICS CATEGORY 10-1, 1chome, Ohwatari-machi, Maebashi-city, 371-8543, Japan

(No.MA149SCH)



Printed in Japan  
VPT