

# Service Manual

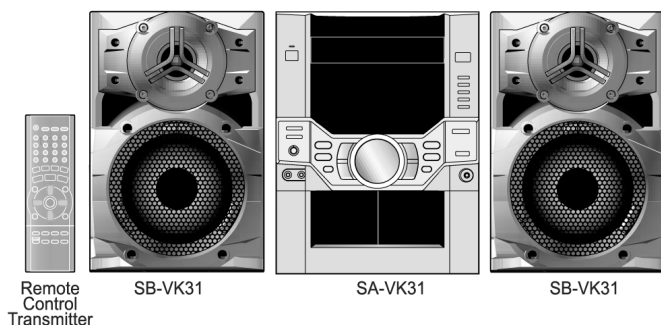
## CD Stereo System



### SA-VK31EE

Colour

(S)... Silver Type



## Specifications

### ■ AMPLIFIER SECTION

|                              |                                 |
|------------------------------|---------------------------------|
| RMS power output             |                                 |
| THD 10% both channels driven |                                 |
| 1 kHz (Low channel)          | 75 W per channel (6 $\Omega$ )  |
| 10 kHz (High channel)        | 75 W per channel (6 $\Omega$ )  |
| Total Bi-Amp power           | 150 W per channel               |
| Phone jack                   |                                 |
| Terminal                     | Stereo, 3.5 mm jack             |
| Aux                          |                                 |
| Input sensitivity            | 250 mV                          |
| Input Impedance              | 13.3 k $\Omega$                 |
| Mic jack                     |                                 |
| Sensitivity                  | 0.7 mV, 680 $\Omega$            |
| Terminal                     | Mono, 3.5 mm jack<br>(2 system) |

### ■ FM TUNER SECTION

|                     |                                   |
|---------------------|-----------------------------------|
| Frequency range     | 87.50 - 108.00 MHz (50 kHz steps) |
| Sensitivity         | 1.8 $\mu$ V (IHF)                 |
| S/N 26 dB           | 1.5 $\mu$ V                       |
| Antenna terminal(s) | 75 $\Omega$ (unbalanced)          |

### ■ AM TUNER SECTION

|                 |                              |
|-----------------|------------------------------|
| Frequency range | 522 - 1629 kHz (9 kHz steps) |
|-----------------|------------------------------|

|                        |               |
|------------------------|---------------|
| Sensitivity            |               |
| S/N 20 dB (at 999 kHz) | 560 $\mu$ V/m |

### ■ CASSETTE DECK SECTION

|                              |                                                |
|------------------------------|------------------------------------------------|
| Track system                 | 4 track, 2 channel                             |
| Heads                        |                                                |
| Record/playback              | Solid permalloy head                           |
| Erasure                      | Double gap ferrite head                        |
| Motor                        | DC servo motor                                 |
| Recording system             | AC bias 100 kHz                                |
| Erasing system               | AC erase 100 kHz                               |
| Tape speed                   | 4.8 cm/s                                       |
| Overall frequency response   |                                                |
| (+3 dB, -6 dB at DECK OUT)   |                                                |
| NORMAL (TYPE I)              | 35 Hz - 14 kHz                                 |
| S/N                          | 50 dB (A-weighted)                             |
| Wow and flutter              | 0.18 % (WRMS)                                  |
| Fast forward and rewind time | Approx. 120 seconds with<br>C-60 cassette tape |

### ■ CD SECTION

# Panasonic

|                                                   |                               |                                                                                              |                             |
|---------------------------------------------------|-------------------------------|----------------------------------------------------------------------------------------------|-----------------------------|
| Discs played [8 cm or 12 cm]                      |                               | MP3                                                                                          |                             |
| (1) CD-Audio (CD-DA)                              |                               | Bit rate                                                                                     | 32 kbps - 320 kbps          |
| (2) Video CD                                      |                               | Sampling frequency                                                                           | 32 kHz, 44.1 kHz, 48 kHz    |
| (3) CD-R/RW (CD-DA, Video CD, MP3 formatted disc) |                               |                                                                                              |                             |
| (4) MP3                                           |                               |                                                                                              |                             |
| Sampling frequency                                | 44.1 kHz                      | <b>n GENERAL</b>                                                                             |                             |
| Decoding                                          | 16 bit linear                 | Power Supply                                                                                 | AC 230-240 V, 50 Hz         |
| Pickup                                            |                               | Power consumption                                                                            | 251 W                       |
| Beam source/wavelength                            | Semiconductor laser/780 nm    | Dimensions (WxH xD)                                                                          | 250 x 330 x 358 mm          |
|                                                   |                               | Mass                                                                                         | 7.9 kg                      |
| Number of channels                                | Stereo                        | Power consumption in standby mode: 0.85 W                                                    |                             |
| Frequency response                                | 20 Hz-20 kHz (+1, -2 dB)      | <b>n SYSTEM</b>                                                                              |                             |
| Wow and flutter                                   | Below measurable limit        | SC-VK31 (EE)                                                                                 | Music center: SA-VK31 (EE)  |
| Digital filter                                    | 8 fs                          |                                                                                              | Front speaker: SB-VK31 (GC) |
| D/A converter                                     | MASH (1 bit DAC)              | <b>Note:</b>                                                                                 |                             |
| Video                                             |                               |                                                                                              |                             |
| Video signal system                               | PAL625/50, PAL525/60, NTSC    | 1. Specifications are subject to change without notice. Mass and dimensions are approximate. |                             |
| Output level                                      | Composite video, 1 Vp-p, 75 Ω | 2. Total harmonic distortion is measured by the digital spectrum analyzer.                   |                             |
| Terminal                                          | Pin jack (1 system)           | 3. HIGH stands for High Frequency. LOW stands for Low Frequency.                             |                             |

## WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

## CONTENTS

|                                                            | Page |                                                              | Page |
|------------------------------------------------------------|------|--------------------------------------------------------------|------|
| <b>1 Before Repair and Adjustment</b> .....                | 4    | 9.9. Measure for tape trouble .....                          | 33   |
| <b>2 Protection Circuitry</b> .....                        | 4    | <b>10 Service Position</b> .....                             | 34   |
| <b>3 Prevention of Electro Static Discharge (ESD) to</b>   |      | 10.1. Checking the Main P.C.B., Power P.C.B. & Transformer   |      |
| <b>Electrostatically Sensitive (ES) Devices</b> .....      | 5    | P.C.B. ....                                                  | 34   |
| <b>4 Handling the Lead Solder</b> .....                    | 5    | 10.2. Checking the Panel P.C.B., Tact Switch P.C.B., Deck    |      |
| 4.1. About lead free solder (PbF) .....                    | 5    | P.C.B. & Deck Mechanism P.C.B. ....                          | 35   |
| <b>5 Handling Precautions For Traverse Deck</b> .....      | 6    | <b>11 Description of Error Code</b> .....                    | 36   |
| <b>6 Precaution of Laser Diode</b> .....                   | 7    | 11.1. Abnormality Detection for DECK Mechanism .....         | 36   |
| <b>7 Accessories</b> .....                                 | 8    | 11.2. Abnormality detection for CD/Changer Block .....       | 36   |
| <b>8 Operation Procedures</b> .....                        | 9    | 11.3. Power Supply Related Error Detection .....             | 36   |
| <b>9 Operation Checks and Main Component Replacement</b>   |      | <b>12 Self-Diagnostic Function</b> .....                     | 37   |
| <b>Procedures</b> .....                                    | 10   | 12.1. Self-diagnostic display .....                          | 37   |
| 9.1. Disassembly of Top Cabinet and Rear Panel .....       | 11   | 12.2. How to enter the Self-Diagnostic Function .....        | 37   |
| 9.2. Disassembly of CD Mechanism Unit .....                | 13   | 12.3. Cassette Mechanism Test (For error code H01, H02, H03, |      |
| 9.3. Disassembly Main P.C.B., Transformer P.C.B. & MP3     |      | F01) .....                                                   | 37   |
| P.C.B. ....                                                | 14   | 12.4. CD Mechanism Test (F15, F26, F16, F17, F27, F28, F29,  |      |
| 9.4. Disassembly of Panel P.C.B. & Tact Switch P.C.B. .... | 15   | H15) .....                                                   | 38   |
| 9.5. Disassembly of Deck Mechanism Unit & Deck P.C.B. .... | 16   | 12.5. To clear all Error code .....                          | 38   |
| 9.6. CD Mechanism Main Component Replacement               |      | 12.6. How to get out from Self-Diagnostic function .....     | 38   |
| Procedures .....                                           | 16   | 12.7. Power Amplifier Failure (F61) .....                    | 38   |
| 9.7. Disassembly Deck Mechanism .....                      | 29   | <b>13 CD Test Mode Function</b> .....                        | 38   |
| 9.8. Replacement for the cassette lid ass 馳 .....          | 33   | 13.1. How to set CD test mode .....                          | 38   |

|                                                                                                                   |           |                                                                                                           |           |
|-------------------------------------------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------------------------------|-----------|
| 13.2. CD Automatically Adjustment result indication .....                                                         | 38        | 17.7. (H) Transformer P.C.B. ....                                                                         | 83        |
| <b>14 Measurements and Adjustments .....</b>                                                                      | <b>40</b> | 17.8. (J) CD Detect P.C.B., (K) Spindle Position P.C.B. & (L) CD Loading P.C.B. ....                      | 85        |
| 14.1. Cassette Deck Section .....                                                                                 | 40        | 17.9. (M) VCD P.C.B. (Side A & B) .....                                                                   | 86        |
| 14.2. Tuner Section .....                                                                                         | 41        | <b>18 Wiring Connection Diagram .....</b>                                                                 | <b>87</b> |
| 14.3. Alignment Points .....                                                                                      | 42        | <b>19 Illustration of IC 類, Transistors and Diodes .....</b>                                              | <b>89</b> |
| <b>15 Block Diagram .....</b>                                                                                     | <b>43</b> | <b>20 Terminal Function of IC 類 .....</b>                                                                 | <b>90</b> |
| <b>16 Schematic Diagram .....</b>                                                                                 | <b>51</b> | 20.1. IC7001 (AN22004A-NF) Servo Amplifier .....                                                          | 90        |
| 16.1. (A) CD Servo Circuit .....                                                                                  | 52        | 20.2. IC7002 (MN662790RSC) Servo Processor/ Digital Signal Processor/ Digital Filter/ D/A Converter ..... | 90        |
| 16.2. (B) Tuner/Main Circuit .....                                                                                | 54        | 20.3. IC7003 (AN8739SBTE2) Focus Coil/ Tracking Coil/ Traverse Motor/ Spindle Motor Driver .....          | 91        |
| 16.3. (B) Main Circuit .....                                                                                      | 55        | 20.4. IC2801 (MN101C30AEB) Mechacon IC .....                                                              | 91        |
| 16.4. (C) Panel Circuit & (D) Tact Switch Circuit .....                                                           | 61        | 20.5. IC600 (C2BBGF000579) Microprocessor .....                                                           | 92        |
| 16.5. (E) Deck Circuit & (F) Deck Mechanism Circuit .....                                                         | 65        | <b>21 Troubleshooting Guide .....</b>                                                                     | <b>93</b> |
| 16.6. (G) Power Circuit .....                                                                                     | 67        | <b>22 Parts Location and Replacement Parts List .....</b>                                                 | <b>94</b> |
| 16.7. (H) Transformer Circuit, (J) CD Detect circuit, (K) Spindle Position Circuit & (L) CD Loading Circuit ..... | 69        | 22.1. Deck Mechanism (RAA3412-S) .....                                                                    | 95        |
| 16.8. (M) VCD Module Circuit .....                                                                                | 70        | 22.2. CD Loading Mechanism (RD-DAC026-S) .....                                                            | 98        |
| <b>17 Printed Circuit Board .....</b>                                                                             | <b>73</b> | 22.3. Cabinet .....                                                                                       | 101       |
| 17.1. (A) CD Servo P.C.B. (Side A & B) .....                                                                      | 73        | 22.4. Electrical Parts List .....                                                                         | 104       |
| 17.2. (B) Main P.C.B. ....                                                                                        | 75        | 22.5. Packing Materials & Accessories Parts List .....                                                    | 114       |
| 17.3. (C) Panel P.C.B. ....                                                                                       | 77        | 22.6. Packaging .....                                                                                     | 115       |
| 17.4. (D) Tact Switch P.C.B. ....                                                                                 | 79        |                                                                                                           |           |
| 17.5. (E) Deck P.C.B. & (F) Deck Mechanism P.C.B. ....                                                            | 80        |                                                                                                           |           |
| 17.6. (G) Power P.C.B. ....                                                                                       | 81        |                                                                                                           |           |

# 1 Before Repair and Adjustment

Disconnect AC power, discharge Power Supply Capacitors C950, C5820 and C5820 through a 10 $\Omega$ , 5W resistor to ground.

DO NOT SHORT-CIRCUIT DIRECTLY (with a screwdriver blade, for instance), as this may destroy solid state devices.

After repairs are completed, restore power gradually using a variac, to avoid overcurrent.

Current consumption at AC 230V, 50 Hz in NO SIGNAL mode (volume min at CD mode) should be ~650mA.

# 2 Protection Circuitry

The protection circuitry may have operated if either of the following conditions are noticed:

- No sound is heard when the power is turned on.
- Sound stops during a performance.

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are “shorted”, or if speaker systems with an impedance less than the indicated rated impedance of the amplifier are used.

If this occurs, follow the procedure outlines below:

1. Turn off the power.
2. Determine the cause of the problem and correct it.
3. Turn on the power once again after one minute.

**Note:**

When the protection circuitry functions, the unit will not operate unless the power is first turned off and then on again.



### 3 Prevention of Electro Static Discharge (ESD) to Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electro static discharge (ESD).

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminium foil, to prevent electrostatic charge build up or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder remover device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminium foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

#### Caution

Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).

#### IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by  $\Delta$  in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

## 4 Handling the Lead Solder

### 4.1. About lead free solder (PbF)

#### Distinction of PbF P.C.B. :

P.C.B.s (manufactured) using lead free solder will have a PbF stamp on the P.C.B.

#### Caution:

- Pb free solder has a higher melting point than standard solder; Typically the melting point is 50 - 70°F (30 - 40°C) higher. Please use a high temperature soldering iron. In case of the soldering iron with temperature control, please set it to 700 ± 20°F (370 ± 10°C).
- Pb free solder will tend to splash when heated too high (about 1100°F/600°C).
- When soldering or unsoldering, please completely remove all of the solder on the pins or solder area, and be sure to heat the soldering points with the Pb free solder until it melts enough.

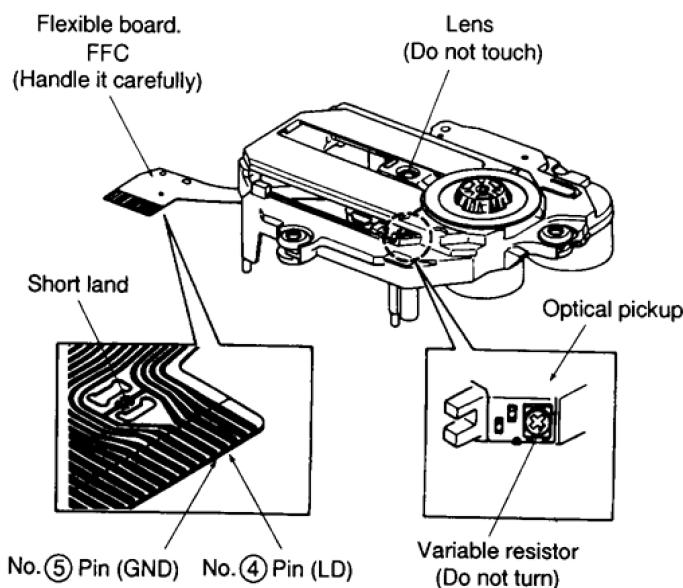
## 5 Handling Precautions For Traverse Deck

The laser diode in the traverse deck (optical pickup) may break down due to potential difference caused by static electricity of clothes or human body.

So, be careful of electrostatic breakdown during repair of the traverse deck (optical pickup).

### • Handling of traverse deck (optical pickup)

1. Do not subject the traverse deck (optical pickup) to static electricity as it is extremely sensitive to electrical shock.
2. The short land between the No.4(LD) and No.5(GND) pins on the flexible board (FFC) is shorted with a solder build-up to prevent damage to the laser diode. To connect to the PC board, be sure to open by removing the solder build-up, and finish the work quickly.
3. Take care not to apply excessive stress to the flexible board (FFC).
4. Do not turn the variable resistor (laser power adjustment). It has already been adjusted.



### • Grounding for electrostatic breakdown prevention

1. Human body grounding

Use the anti-static wrist strap to discharge the static electricity from your body.

2. Work table grounding

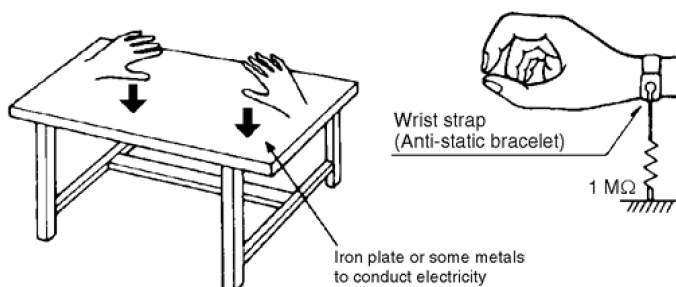
Put a conductive material (sheet) or steel sheet on the area where the traverse deck (optical pickup) is placed, and ground the sheet.

### Caution :

The static electricity of your clothes will not be grounded through the wrist strap. So, take care not to let your clothes touch the traverse deck (optical pickup).

### Caution when Replacing the Traverse Deck :

The traverse deck has a short point shorted with solder to protect the laser diode against electrostatics breakdown. Be sure to remove the solder from the short point before making connections.



## 6 Precaution of Laser Diode

### Caution :

This product utilizes a laser diode with the unit turned "ON", invisible laser radiation is emitted from the pick up lens.  
Wavelength : 780 nm

Maximum output radiation power from pick up : 100  $\mu$ W/VDE

Laser radiation from pick up unit is safety level, but be sure the followings:

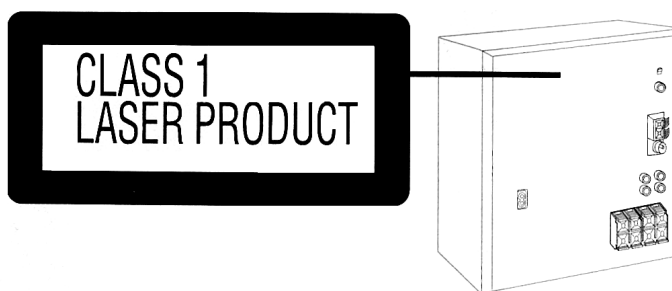
1. Do not disassemble the optical pick up unit, since radiation from exposed laser diode is dangerous.
2. Do not adjust the variable resistor on the pick up unit. It was already adjusted.
3. Do not look at the focus lens using optical instruments.
4. Do not look at pick up lens.

### CAUTION!

THIS PRODUCT UTILIZES A LASER.

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

### n Use of Caution Labels



|                  |                                                                                            |
|------------------|--------------------------------------------------------------------------------------------|
| <b>CAUTION</b>   | - INVISIBLE LASER RADIATION WHEN OPEN.<br>AVOID EXPOSURE TO BEAM.<br>IEC60825-1 / Class 3b |
| <b>VARNING</b>   | - OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD.<br>BETRÄKTA EJ STRÅLEN.                  |
| <b>ADVARSEL</b>  | - USYNLIG LASERSTRÅLING VED ÅBNING.<br>UNDGÅ UDSÆTTELSE FOR STRÅLING.                      |
| <b>ADVARSEL</b>  | - USYNLIG LASERSTRÅLING NÄR DEKSEL ÄPNES.<br>UNNGÅ EKSPONERING FOR STRÅLEN.                |
| <b>VARO!</b>     | - AVATTIESSA OLET NÄKYMÄTÖNTÄ ALTTIINA<br>LASERSÄTELYLLE. ÄLÄ KATSO SÄTEESEEN.             |
| <b>VORSICHT</b>  | - UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG<br>GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.      |
| <b>ATTENTION</b> | - RAYONNEMENT LASER INVISIBLE EN CAS D'OUVERTURE.<br>EXPOSITION DANGEREUSE AU FAISCEAU.    |
| <b>注意</b>        | - 打开时有不可见激光辐射。避免激光束照射。                                                                     |
| <b>注意</b>        | - ここを開くと不可視レーザー光が出ます。<br>ビームを見たり、触れたりしないで下さい。                                              |

Inside of product

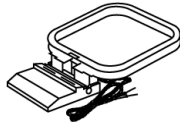
## 7 Accessories



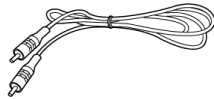
AC power supply cord



FM indoor antenna



AM loop antenna



Video connection cable

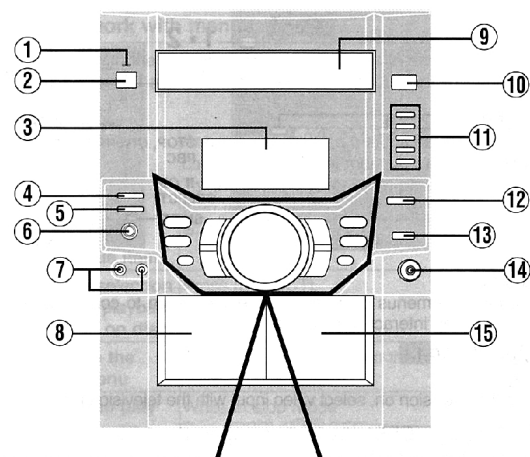


Remote control  
transmitter

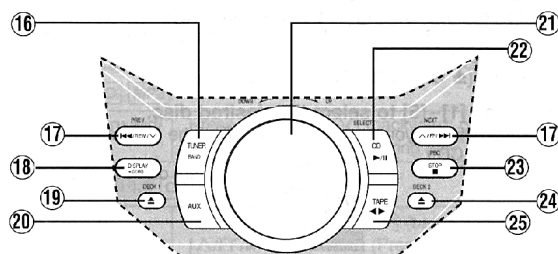
## 8 Operation Procedures

### Front panel controls

#### Main unit



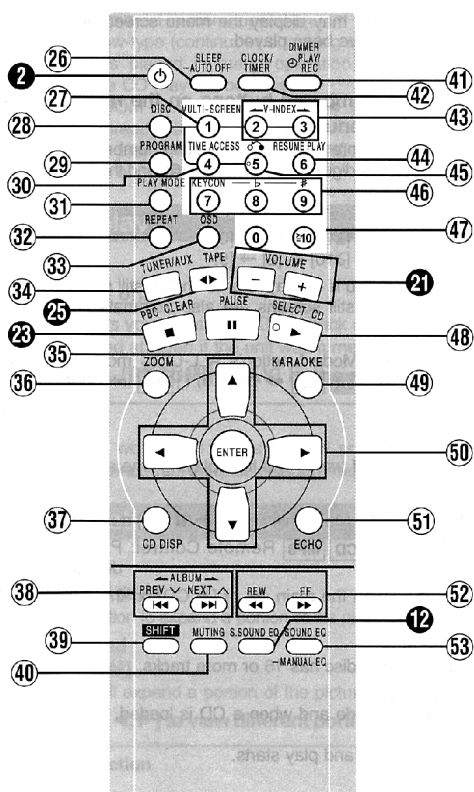
- ① **AC supply indicator [AC IN]**  
This indicator lights when the unit is connected to the AC mains supply.
- ② **Standby/on switch [⏻/⏻]**  
Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.
- ③ **Display**
- ④ **Deck select button [DECK 1/2]**
- ⑤ **Record button [● REC]**
- ⑥ **Microphone volume control [MIC VOL]**
- ⑦ **Microphone jacks [MIC 1, 2]**
- ⑧ **Deck 1 cassette holder**
- ⑨ **Disc tray**
- ⑩ **CD tray open/close button [▲ OPEN/CLOSE]**
- ⑪ **CD direct play buttons [1-5]**
- ⑫ **Super sound EQ button [SUPER SOUND EQ]**
- ⑬ **Built-in sound equalizer button [SOUND EQ]**
- ⑭ **Headphones jack [PHONES]**
- ⑮ **Deck 2 cassette holder**



#### Center console

- ⑯ **Tuner/band select button [TUNER, BAND]**
- ⑰ **CD skip/search/previous/next, VCD slow advance, tape fast-forward/rewind, tune/preset channel select, time adjust buttons [◀◀/REW/⏮, PREV, ▲/FF/▶▶, NEXT]**
- ⑱ **Display, demonstration button [DISPLAY, -DEMO]**
- ⑲ **Deck 1 open button [▲ DECK 1]**
- ⑳ **AUX button [AUX]**
- ㉑ **Volume control [VOLUME DOWN, UP]**
- ㉒ **CD play/pause, select button [▶/⏻ CD, SELECT]**
- ㉓ **Stop/program clear, PBC on/off button [■ STOP, PBC]**
- ㉔ **Deck 2 open button [▲ DECK 2]**
- ㉕ **Tape play/direction button [◀▶ TAPE]**

#### Remote control



Buttons such as ② function in exactly the same way as the buttons on the main unit.

- ②⑥ **Sleep timer + Auto off button [SLEEP, -AUTO OFF]**
- ②⑦ **Multi screen button [MULTI-SCREEN]**
- ②⑧ **Disc button [DISC]**
- ②⑨ **Program button [PROGRAM]**
- ③⑦ **Time access button [TIME ACCESS]**
- ③① **Play mode select button [PLAY MODE]**
- ③② **Repeat button [REPEAT]**
- ③③ **On-screen display button [OSD]**
- ③④ **Tuner/band select, AUX button [TUNER/AUX]**
- ③⑤ **CD pause button [⏻ PAUSE]**
- ③⑥ **Zoom button [ZOOM]**
- ③⑦ **CD display button [CD DISP]**
- ③⑧ **CD skip/search/previous/next, album skip, preset channel select, time adjust buttons [◀◀▶▶, ◀ ALBUM ▶, PREV V NEXT ▲]**
- ③⑨ **Shift button [SHIFT]**  
To use functions labeled in orange:  
While pressing [SHIFT], press the corresponding button.
- ④⑦ **Muting button [MUTING]**
- ④① **Dimmer + Play timer/record timer button [DIMMER, ⏻PLAY/REC]**
- ④② **Clock/timer button [CLOCK/TIMER]**
- ④③ **Video index buttons [◀ V-INDEX ▶]**
- ④④ **Resume play button [RESUME PLAY]**
- ④⑤ **Return button [↶]**
- ④⑥ **Key control buttons [KEYCON, b, #]**
- ④⑦ **Numbered buttons [≥10, 1-9, 0]**
- ④⑧ **CD play, select button [▶ CD, SELECT]**
- ④⑨ **Karaoke button [KARAOKE]**
- ⑤⑦ **Cursor buttons [▲, ▼, ◀, ▶]Enter button [ENTER]**
- ⑤① **Echo button [ECHO]**
- ⑤② **Tape fast-forward/rewind, manual tuning, VCD slow advance buttons [◀◀▶▶, REW FF]**
- ⑤③ **Built-in sound equalizer/manual EQ button [SOUND EQ, -MANUAL EQ]**

## 9 Operation Checks and Main Component Replacement Procedures

### “ATTENTION SERVICER”

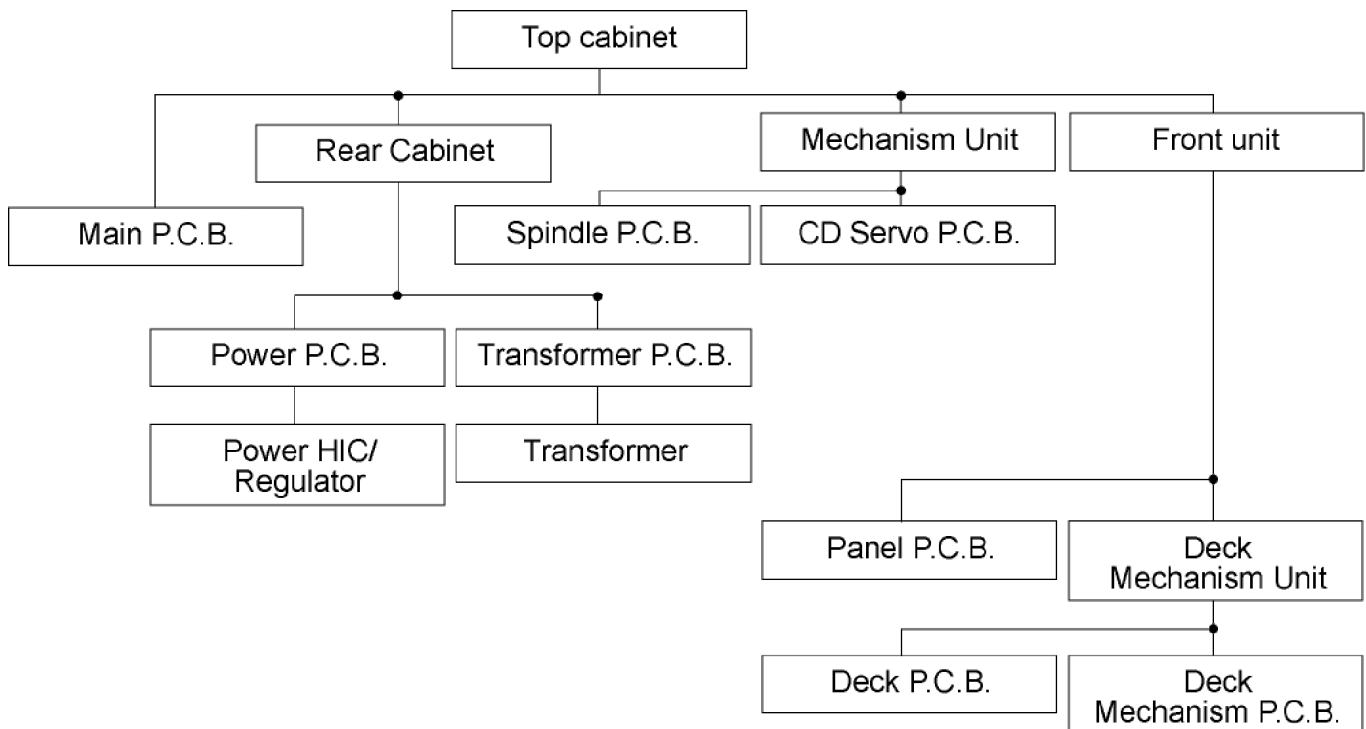
Some chassis components may have sharp edges.

Be careful when disassembling and servicing.

1. This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.
2. For reassembly after operation checks or replacement, reverse the respective procedures.  
Special reassembly procedures are described only when required.
3. Select items from the following index when checks or replacement are required.

### Warning:

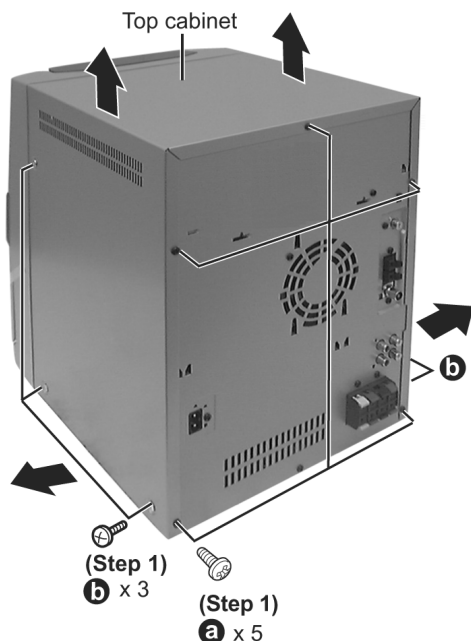
This product uses a laser diode. Refer to caution statement Precaution of Laser Diode.



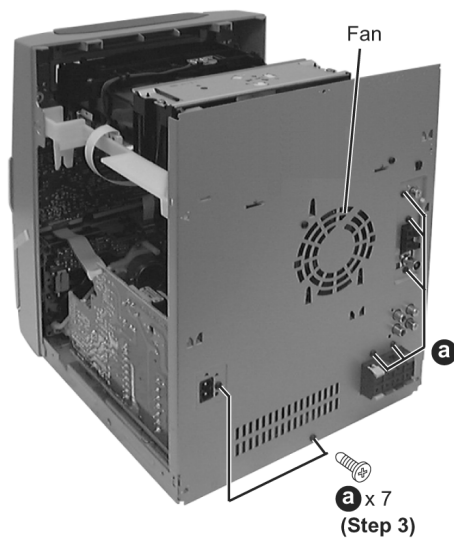
## 9.1. Disassembly of Top Cabinet and Rear Panel

**Step 1** Remove 3 screws each side and 5 screws at rear panel.

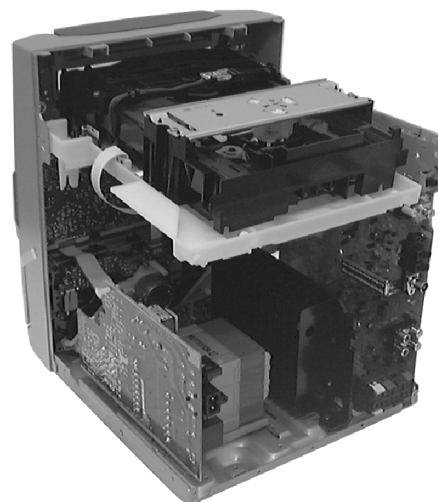
**Step 2** Lift up both sides of cabinet ass'y, push the cabinet ass'y toward the rear and remove the cabinet ass'y.



### Disassembly of Rear Panel



**Step 3** Remove 7 screws and disconnect wire at CN305 (Fan) at rear cabinet as shown.



### 9.1.1. Disassembly for CD Lid

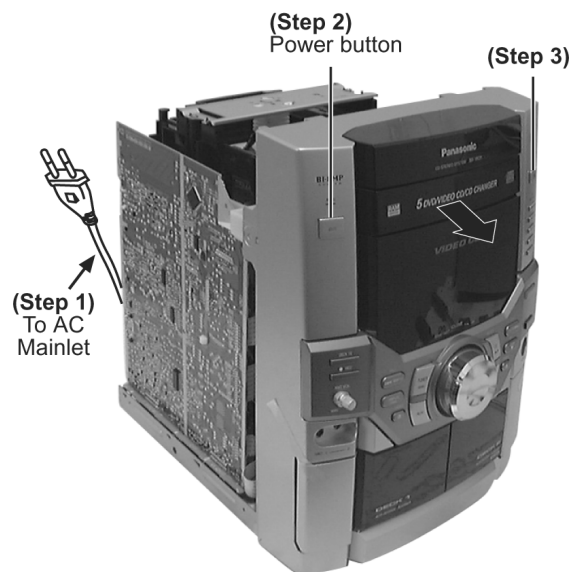
(The CD changer unit can be removed after the CD Lid is removed)

- Follow the (Step 1) - (Step 2) of Item 9.1 - Disassembly of Top Cabinet and Rear Panel

**When opening the disc tray automatically (Using Power Supply)**

**Step 1** Connect the AC power cord.

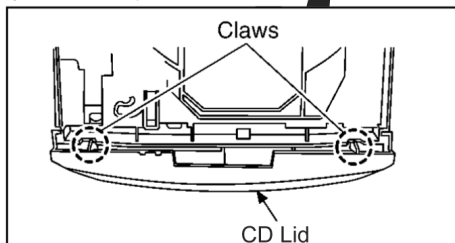
**Step 2** Press the POWER button to power up the main unit.



**Step 3** Press the OPEN/CLOSE button, the disc tray will be open automatically.



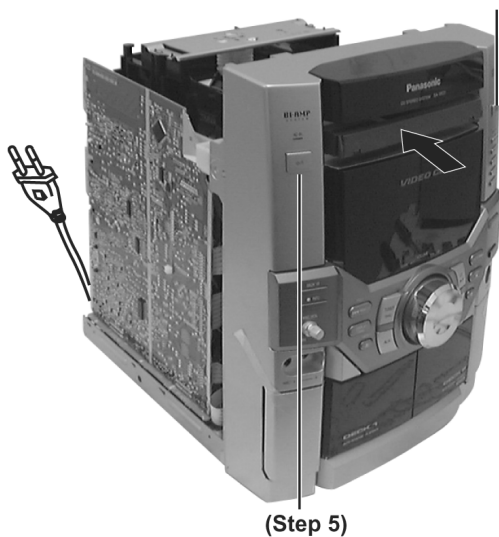
(Bottom side)



**Step 4** Release the 2 claws, and then remove the CD Lid.

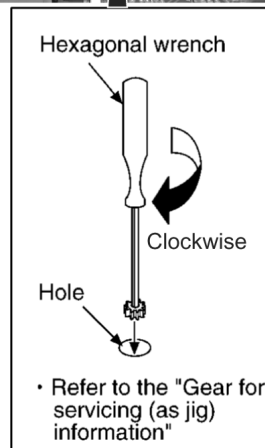
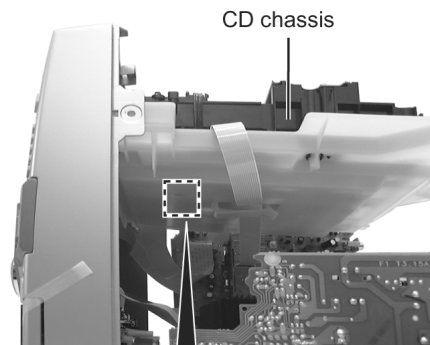
**Step 5** Press the POWER button to turn the power on.

(Step 6)



**Step 6** Press the OPEN/CLOSE button, the disc tray will be close.

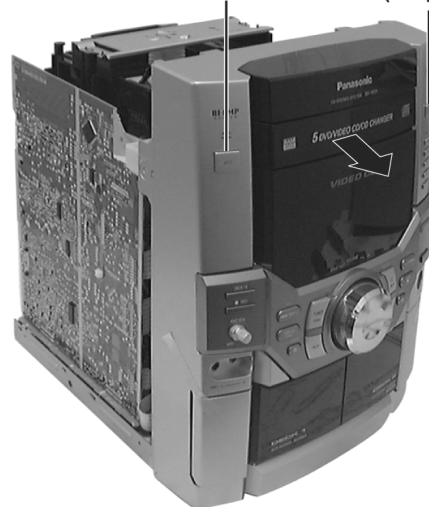
[Open the disc tray manually (Using service tools)]



**Step 1** Insert the gear tool into the hole on the underside of CD chassis and then rotate in the direction of arrow. The disc tray will be open.

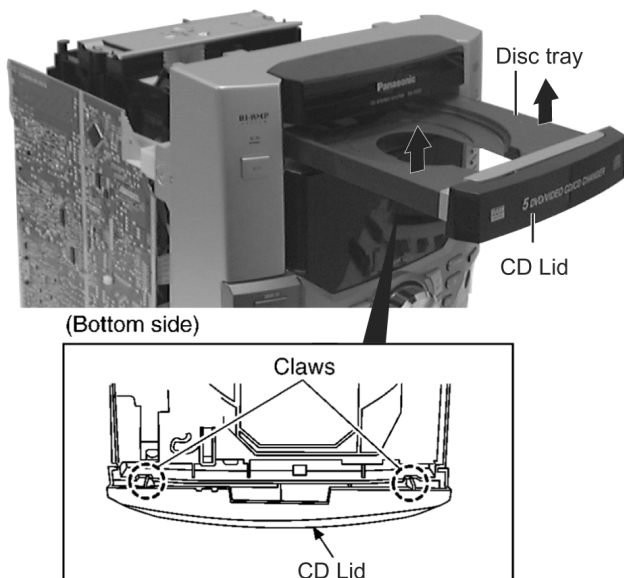
(Step 2)  
Power button

(Step 3)

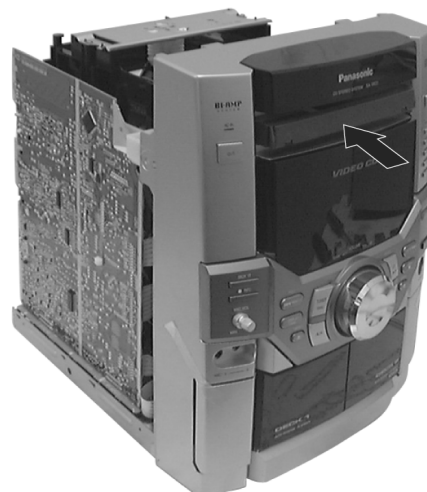


**Step 2** Release the 2 claws, and then remove the CD lid cover.





**Step 3** Repeat Step 2 but rotate the gear tools in anti-clockwise direction.

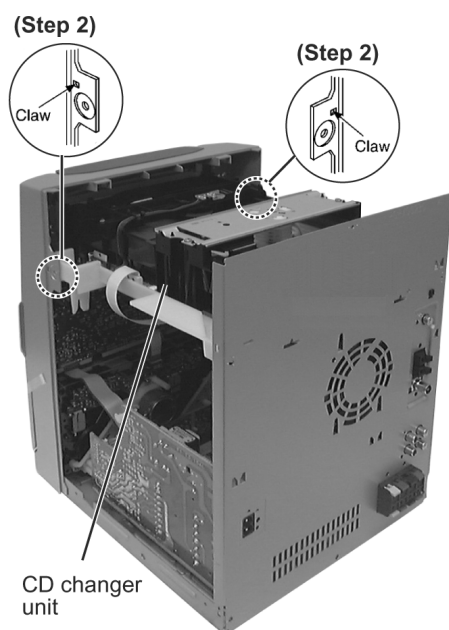


**Step 4** The disc tray will be close.

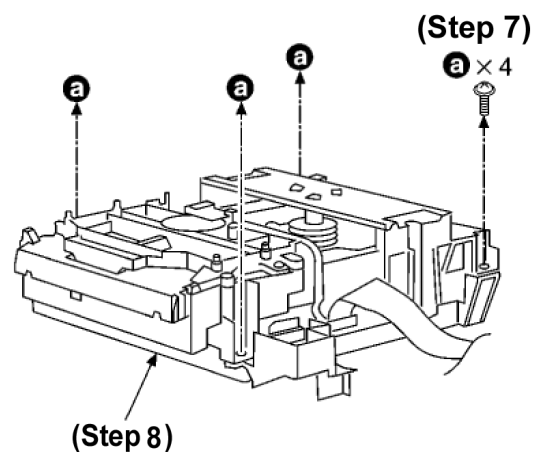
## 9.2. Disassembly of CD Mechanism Unit

- Follow the (Step 1) - (Step 3) of Item 9.1 - Disassembly of Top Cabinet and Rear Panel
- Follow the (Step 1) - (Step 6) of Item 9.1.1 - Disassembly for CD Lid

**Step 1** Detach the FFC boards (CN309 & CN310).



**Step 2** Release the claws of both ends, and then lift up the CD Mechanism Unit.



**Step 3** Remove 4 screws.

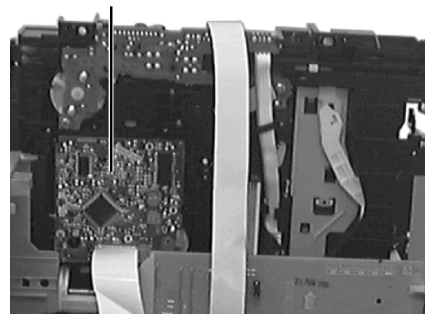
**Step 4** Remove the CD chassis.

**Step 5** Lay the CD mechanism unit as shown.

• **Note:**

For disassembly of CD mechanism unit, please refer to Section 9.6 of this manual.

CD Servo P.C.B.

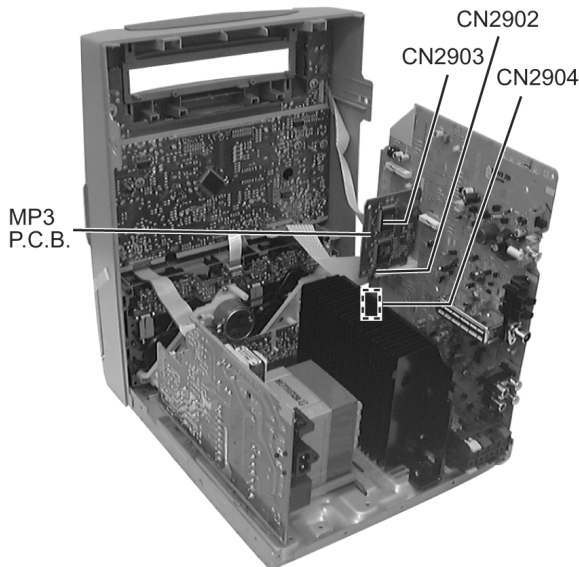


## 9.3. Disassembly Main P.C.B., Transformer P.C.B. & MP3 P.C.B.

### 9.3.1. Disassembly for the Main P.C.B.

- Follow the (Step 1) - (Step 3) of Item 9.1 - Disassembly of Top Cabinet and Rear Panel
- Follow the (Step 1) - (Step 6) of Item 9.1.1 - Disassembly for CD Lid
- Follow the (Step 1) - (Step 5) of Item 9.2 - Disassembly for the CD Mechanism Unit

**Step 1** Disconnect FFC at CN2902, CN2903 & CN2904 from Panel P.C.B.

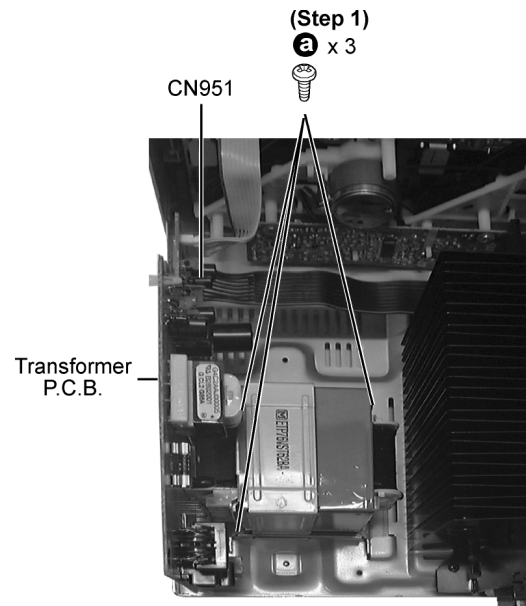


**Step 2** Lift up Main P.C.B. by disconnect CN500 & CN501 as arrow shown above.

### 9.3.2. Disassembly of the Transformer P.C.B.

- Follow the (Step 1) - (Step 3) of Item 9.1 - Disassembly of Top Cabinet and Rear Panel
- Follow the (Step 1) - (Step 6) of Item 9.1.1 - Disassembly for CD Lid
- Follow the (Step 1) - (Step 5) of Item 9.2 - Disassembly for the CD Mechanism Unit
- Follow the (Step 1) - (Step 2) of Item 9.3.1 - Disassembly for the Main P.C.B.

**Step1** Remove 3 screws, disconnect connector CN951.

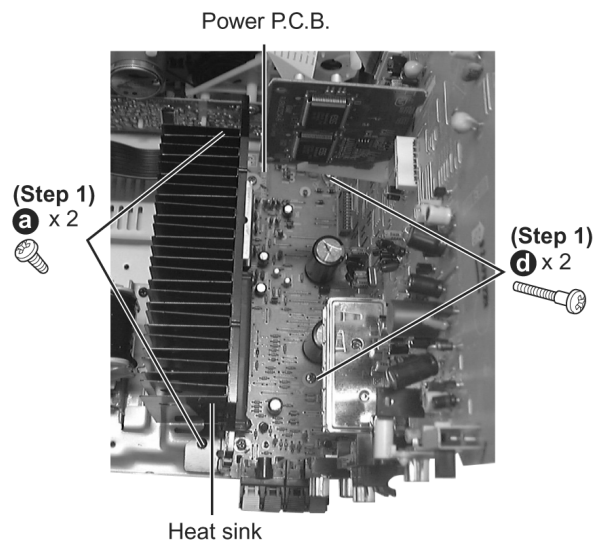


### 9.3.3. Disassembly of the Power P.C.B.

- Follow the (Step 1) - (Step 2) of Item 9.1 - Disassembly of Top Cabinet and Rear Panel
- Follow the (Step 1) - (Step 6) of Item 9.1.1 - Disassembly for CD Lid
- Follow the (Step 1) - (Step 5) of Item 9.2 - Disassembly of the CD Mechanism Unit
- Follow the (Step 1) - (Step 2) of Item 9.3.1 - Disassembly for the Main P.C.B.
- Follow the (Step 1) of Item 9.3.2 - Disassembly for the Transformer P.C.B.

**Step 1** Remove 2 screws fixed to the Main P.C.B.

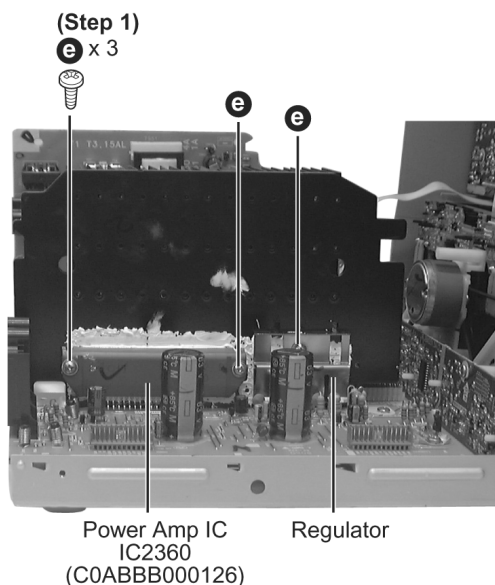
**Step 2** Remove the 2 screws fixed at heat sink.



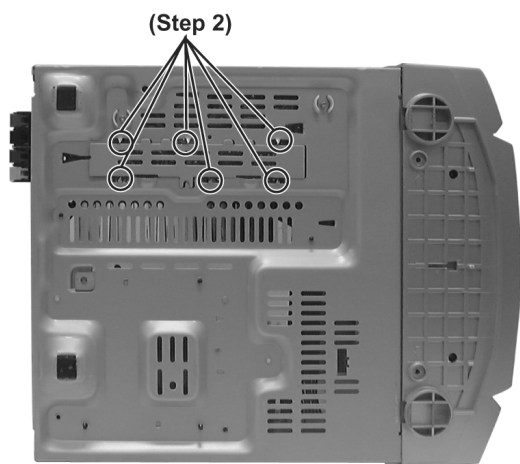
#### NOTE:

Insulate Power P.C.B. with insulation material to avoid short circuit.

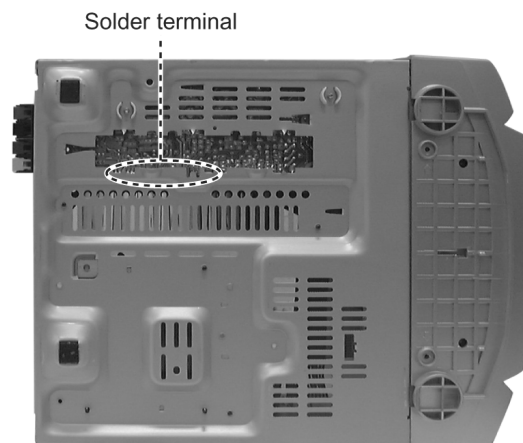
- Replacement of Power Amplifier IC.



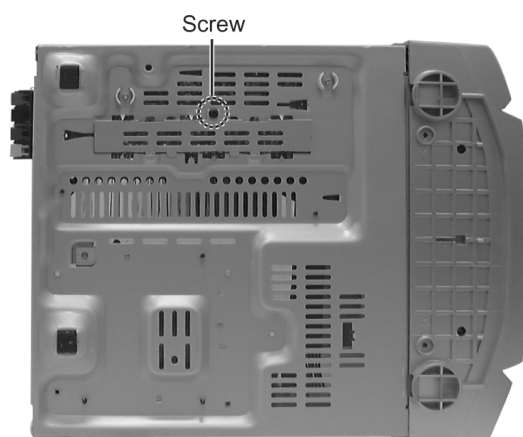
**Step 1** Break the joint with a metal cutter as shown below.



**Step 2** Unsolder the terminals of Power Amp IC, transistor and replace the components.



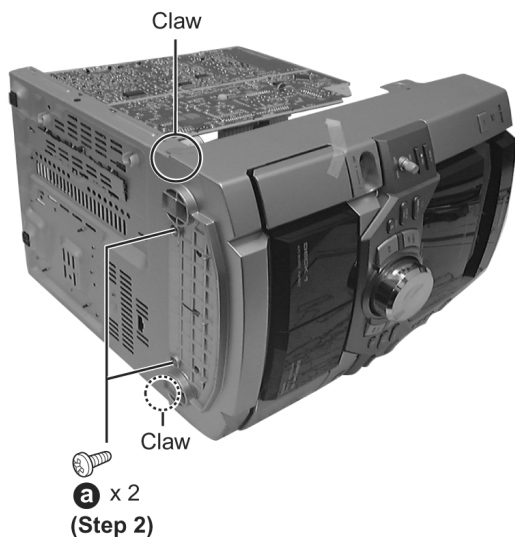
**Step 3** Fix back the cutted portion with a screw as shown.



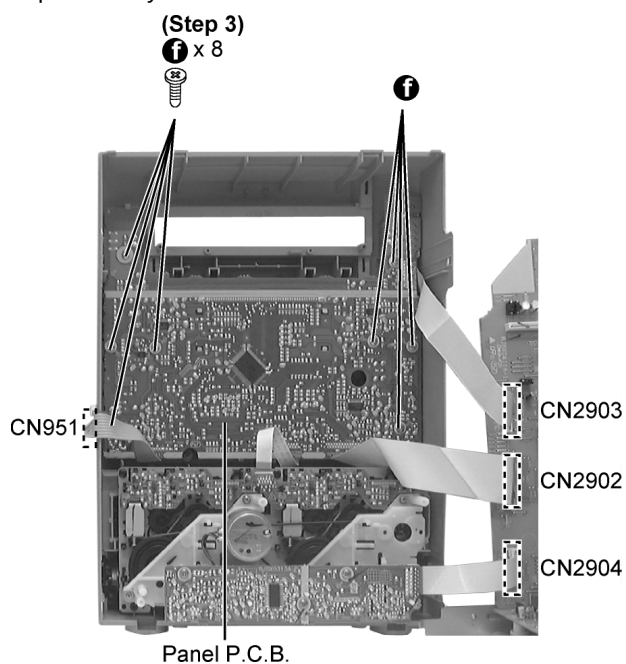
## 9.4. Disassembly of Panel P.C.B. & Tact Switch P.C.B.

- Follow the (Step 1) - (Step 6) of Item 9.1.
- Follow the (Step 1) - (Step 6) Disassembly for the CD Lid of Item 9.1.1.
- Follow the (Step 1) - (Step 6) Disassembly for the CD Changer Unit of Item 9.1.2.

**Step 1** Lay the unit as shown below.



**Step 2** Remove 2 screws, release 2 claws, and then draw the front panel ass'y forward.

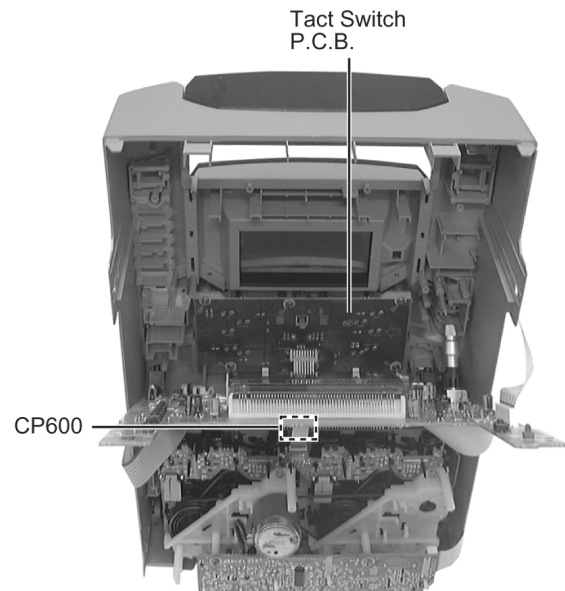


**Step 3** Remove the 8 screws.

**Step 4** Disconnect FFC Boards (CN951, CN2903, CN2902 & CN2904).

- Disassembly of Tact Switch P.C.B.

**Step 5** Disconnect connector CP600.



**Step 6** Pull out the volume knob.

**Step 7** Pull Panel P.C.B. forward.

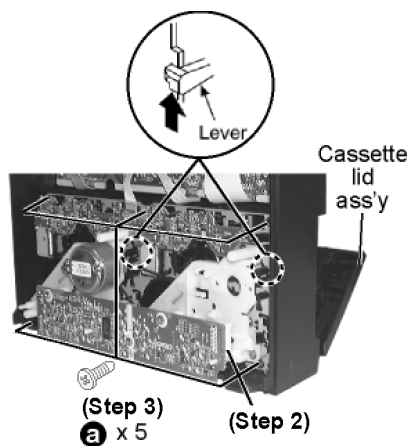
## 9.5. Disassembly of Deck Mechanism Unit & Deck P.C.B.

- Follow the (Step 1) - (Step 3) of Item 9.1 - Disassembly of Top Cabinet and Rear Panel
- Follow the (Step 1) - (Step 6) of Item 9.1.1 - Disassembly for CD Lid
- Follow the (Step 1) - (Step 5) of Item 9.2 - Disassembly for the CD Mechanism Unit

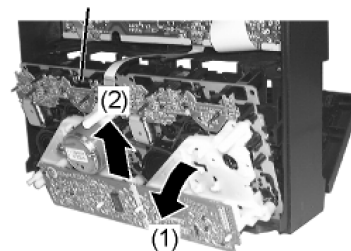
**Step 1** Detach FFC board. (CN951, CN2902, CN2903 & CN2904)

**Step 2** Disconnect FFC flat cable from the connector (CN2903).

**Step 3** Remove the 5 screws.



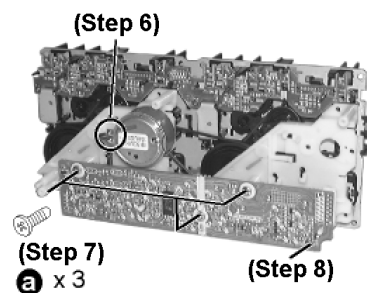
Cassette mechanism



**Step 4** Push the lever upward, and then open the cassette lid ass'y (For DECK1 and DECK2).

**Step 5** Tilt the cassette mechanism unit in the direction of arrow (1), and then remove it in the direction of arrow (2).

- For replacement of Deck P.C.B.



**Step 6** Unsolder the motor terminals.

**Step 7** Remove 4 screws.

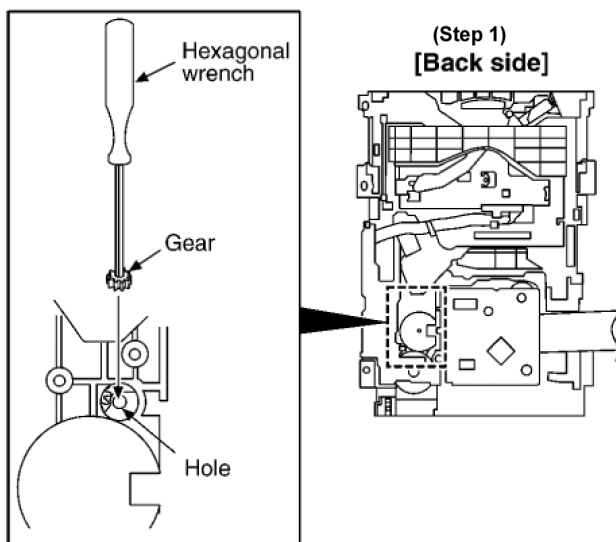
**Step 8** Remove Deck P.C.B.

## 9.6. CD Mechanism Main Component Replacement Procedures

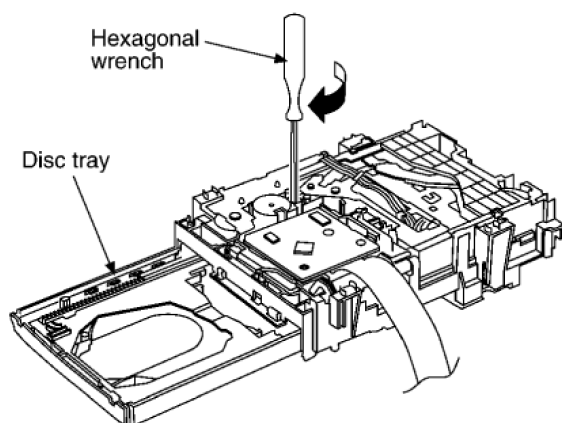
- Follow the (Step 1) - (Step 3) of Item 9.1 - Disassembly of Top Cabinet and Rear Panel
- Follow the (Step 1) - (Step 6) of Item 9.1.1 - Disassembly for CD Lid
- Follow the (Step 1) - (Step 5) of Item 9.2 - Disassembly for the CD Mechanism Unit

### 9.6.1. Replacement of the Traverse Deck

**Step 1** Remove the CD changer unit.

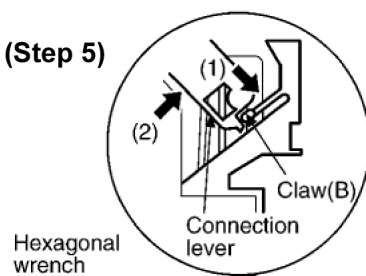


**Step 2** Insert the gear with hexagonal wrench into the hole.

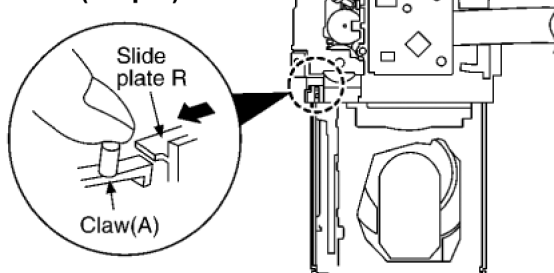


**Step 3** Rotate the hexagonal wrench in the direction of arrow (clockwise), and then open the disc tray fully.

**(Step 5)**



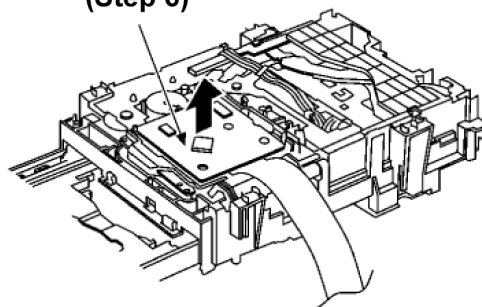
**(Step 4)**



**Step 4** With pressing the claw (A), rotate the hexagonal wrench clockwise. (The slide plate R moves for a little amount.)

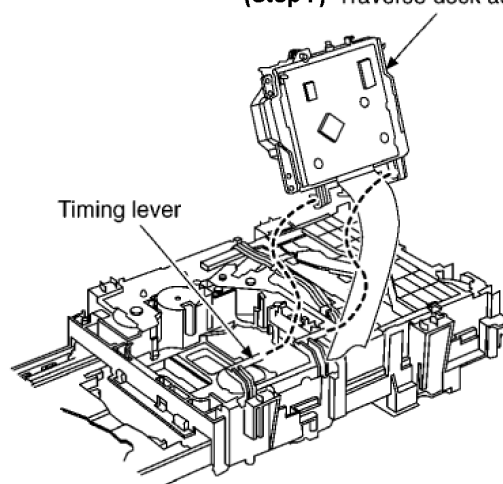
**Step 5** Pressing the claw (B) in the direction of arrow (1), the connection lever moves in the direction of arrow (2).

**(Step 6)**



**Step 6** Lift up the traverse deck ass'y.

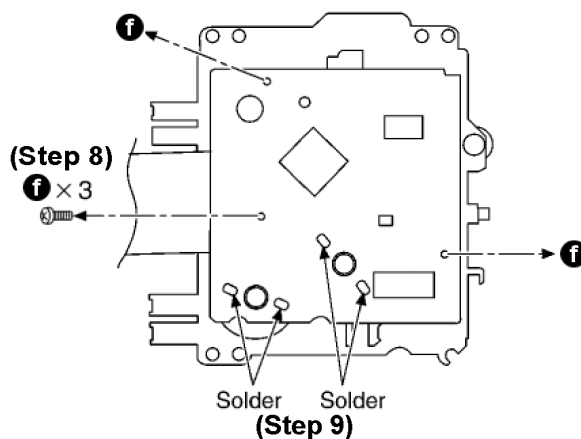
**(Step 7)** Traverse deck ass'y



**Step 7** Remove the traverse deck ass'y from the timing lever.

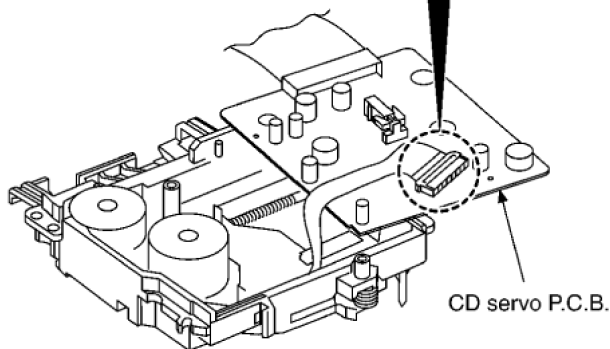
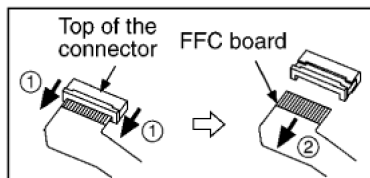
**Caution:**

When removing or inserting the traverse deck avoid touching the OPU lens and pressing onto the turntable.

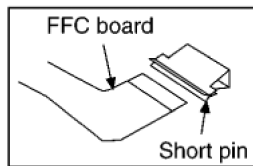


**Step 8** Remove 3 screws.

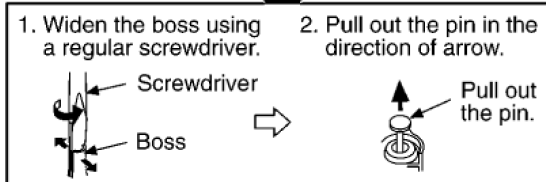
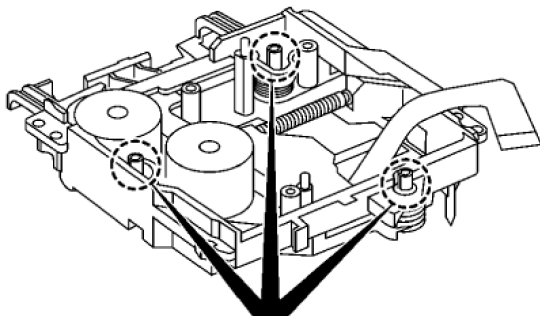
**Step 9** Unsolder the motor terminals (4 points).

**(Step 10)****Caution:**

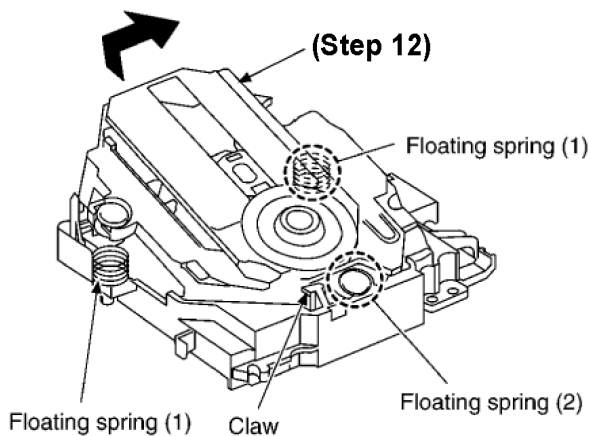
Insert a short pin into the traverse unit FFC board.  
(Refer to "Handling Precautions for Traverse Deck".)



**Step 10** Remove the FFC board from the connector, and then remove the CD Servo P.C.B.



**Step 11** Remove the pin.



**Step 12** Release the claw, and then remove the traverse deck ass'y.

**Note:**

Be careful not to lose the 3 floating spring because those will also be removed on removal of the traverse deck ass'y.

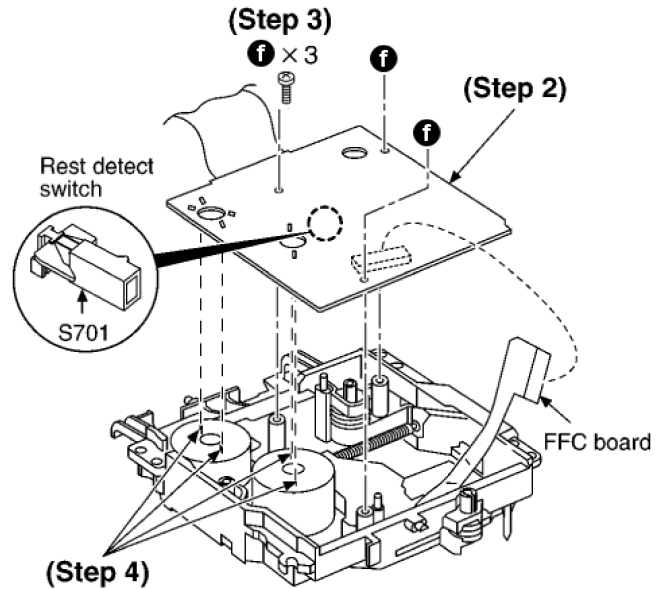
· **Installation of the CD Servo P.C.B. after replacement**

**Step 1** Connect the FFC board.

**Step 2** Install the CD servo P.C.B. in the traverse deck ass'y.

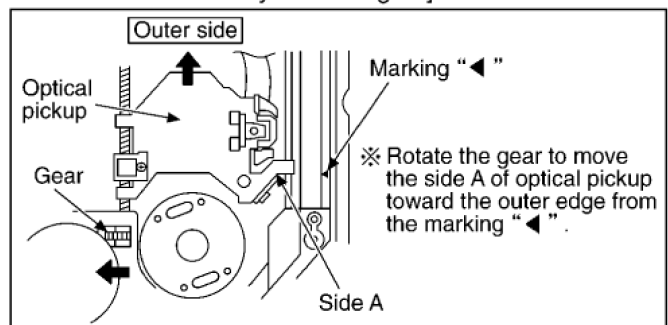
**Step 3** Remove 3 screws.

**Step 4** Solder.

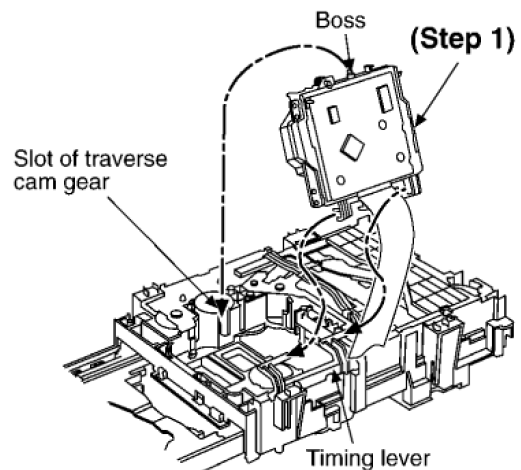


· **Note for installation of the CD servo P.C.B.**

Before installing the CD servo P.C.B., move the optical pickup toward the outer edge from the mark "◀".  
[Otherwise, the rest detect switch (S701) mounted on the CD servo P.C.B. may be damaged.]

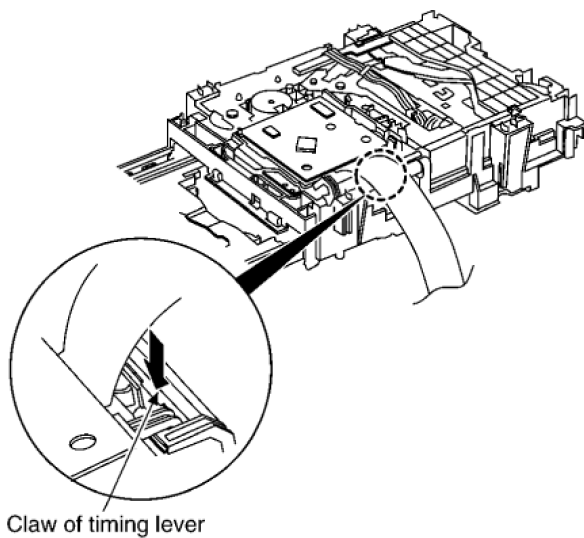


· **Installation for traverse deck ass'y**

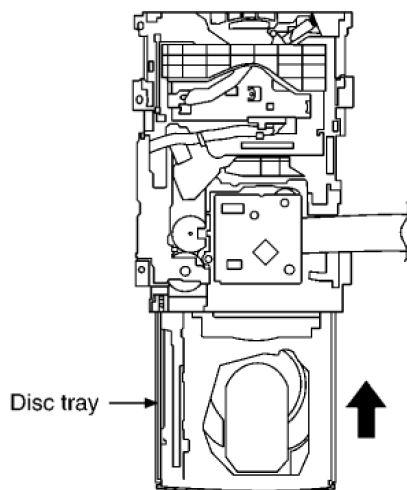


**Step 1** Install the traverse deck ass'y to the timing lever.

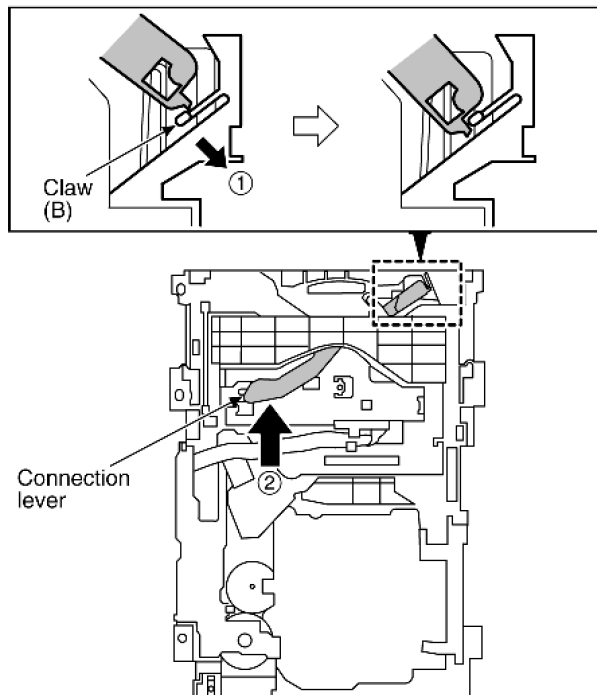
**Step 2** Align the boss of traverse deck ass'y with the slot of traverse cam gear.



**Step 3** Force the claw of timing lever.



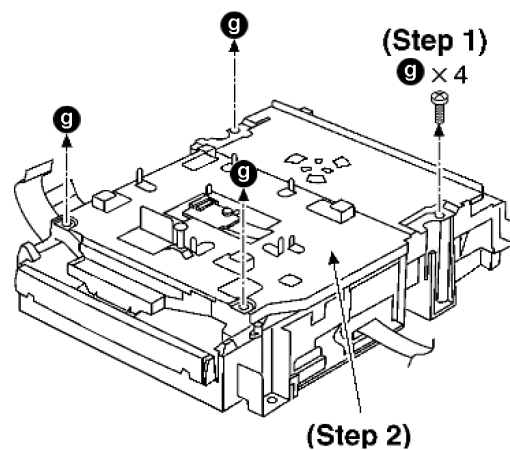
**Step 4** Force the disc tray fully.



**Step 5** With pressing the claw (B) in the direction of arrow (1), force the connection lever in the direction of arrow (2).

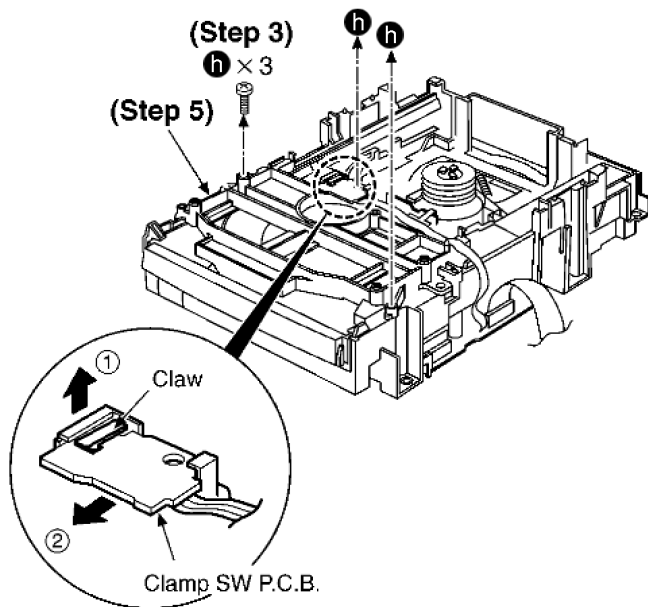
## 9.6.2. Replacement for the Disc Tray

**Step 1** Remove 4 screws.



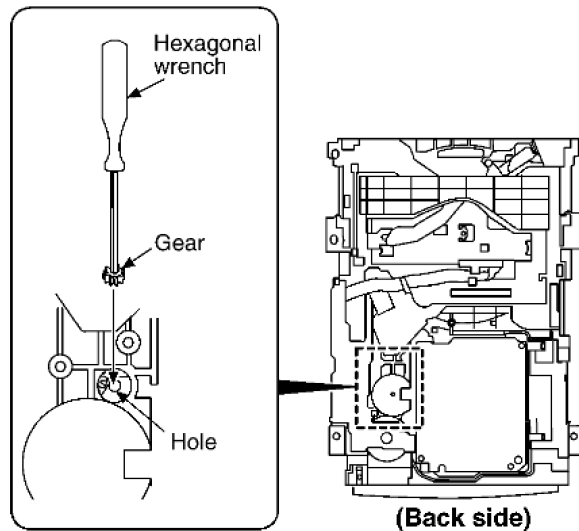
**Step 2** Remove the upper plate.

**Step 3** Remove 3 screws.

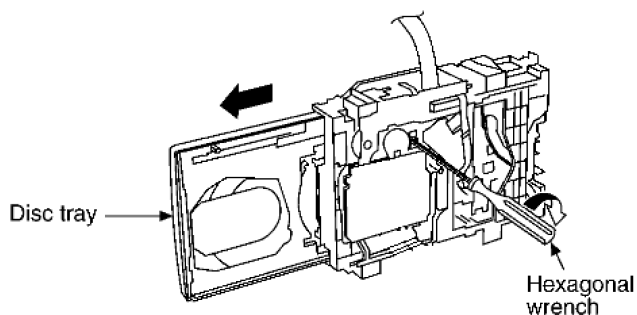


**Step 4** With lifting the claw in the direction of (1), draw the CD Detect P.C.B. in the direction of arrow (2).

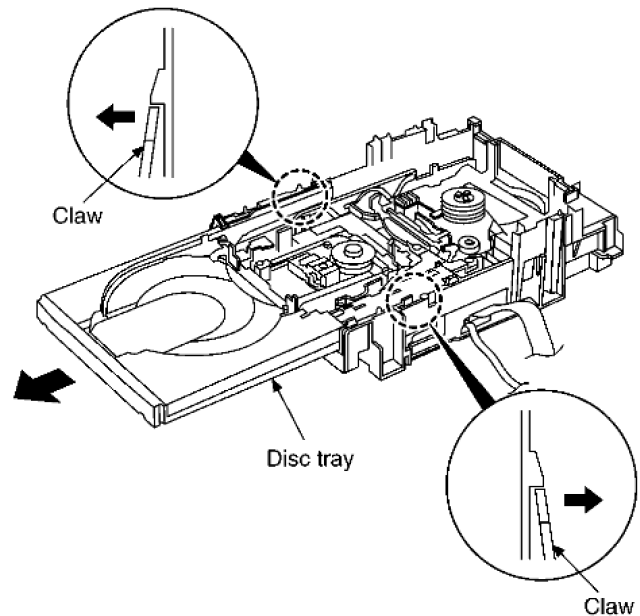
**Step 5** Remove the mechanism cover.



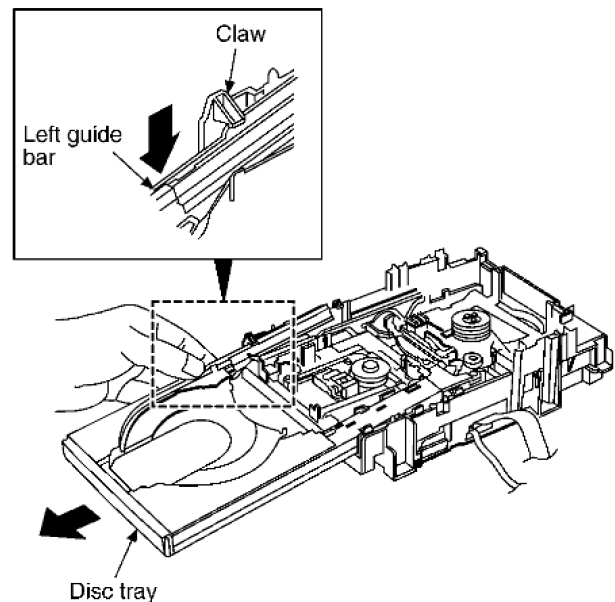
**Step 6** Insert the gear with hexagonal wrench into the hole.



**Step 7** Rotate the hexagonal wrench in the direction of arrow, and then open the disc tray fully.

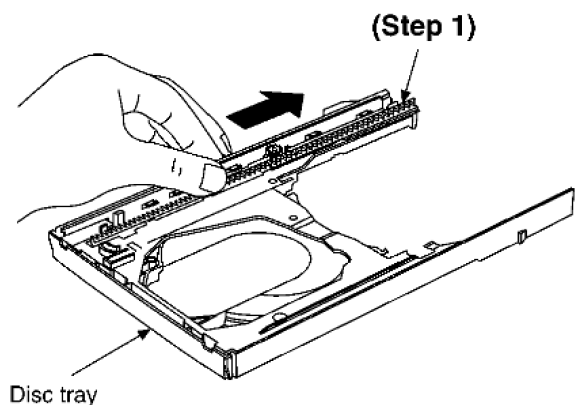


**Step 8** Release the both claws, and then draw the disc tray.



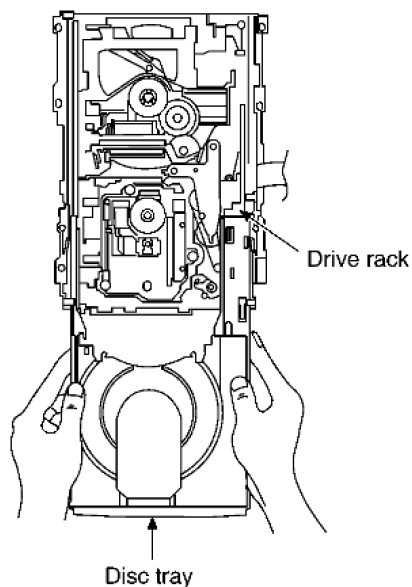
**Step 9** With forcing the left guide bar manually because the left guide bar interferes with claw, draw the disc tray.

[Installation of the disc tray after replacement]



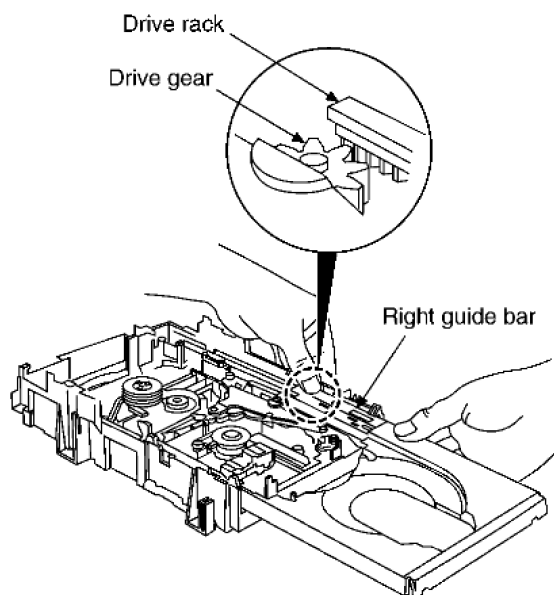
**Step 1** Slide the drive rack fully in the direction of arrow.





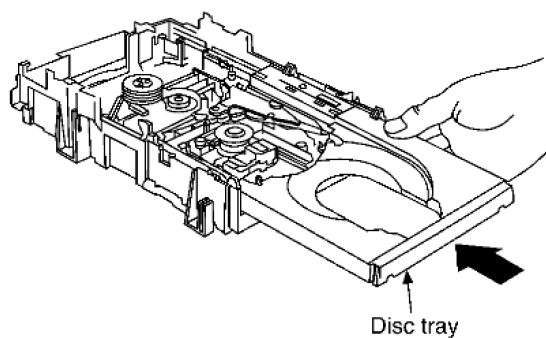
**Step 2** Holding the drive rack not to move, install the disc tray.

**Step 3** Align the drive rack with the drive gear.



**NOTE:**

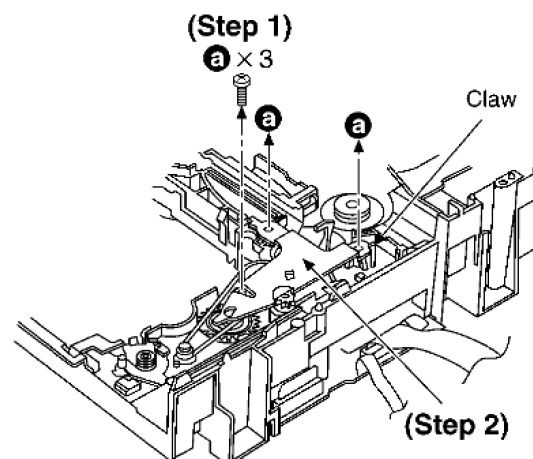
Force the right guide bar of tray base manually not to move upwards.



**Step 4** Holding the disc tray manually, push the disc tray in the direction of the arrow.

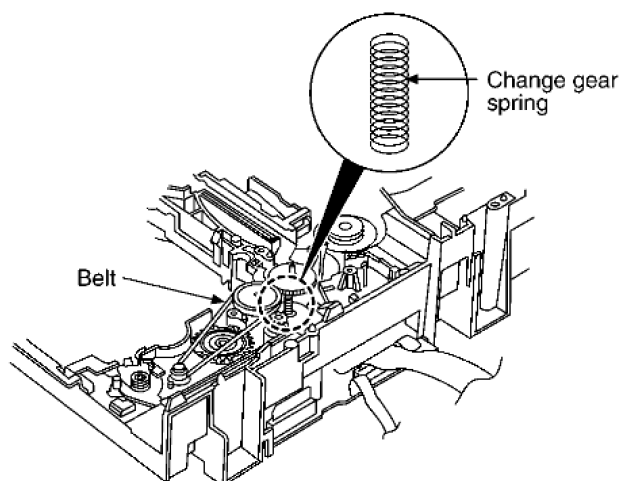
### 9.6.3. Disassembly and reassembly for mechanism base drive unit

**Step 1** Remove 3 screws.



**Step 2** Release the claw, and then remove the gear holder.

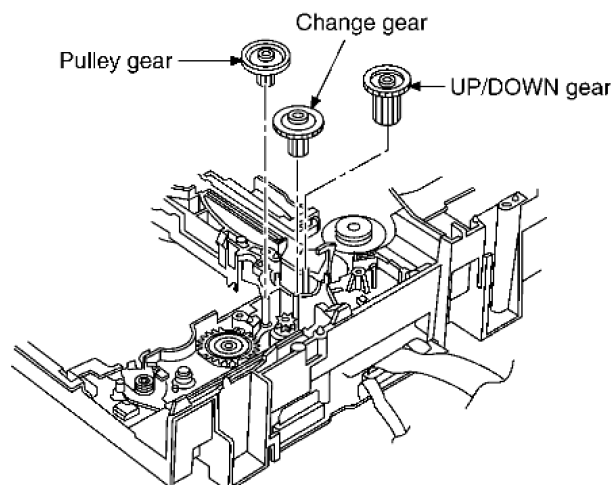
**Step 3** Remove the belt and change gear spring.



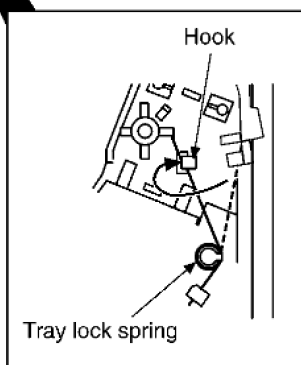
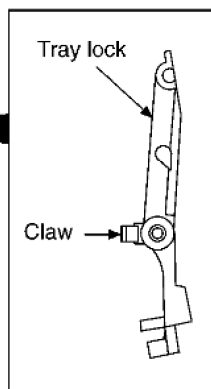
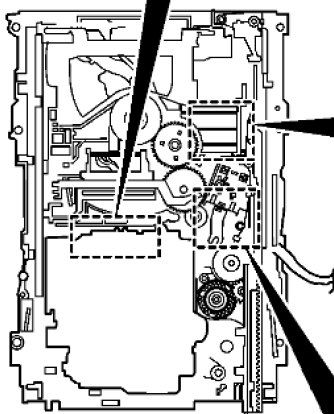
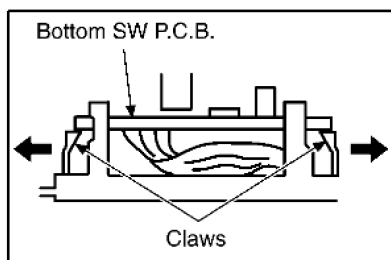
**NOTE:**

Take care not to lose the change gear spring.

**Step 4** Remove the pulley gear, change gear and UP/DOWN gear.



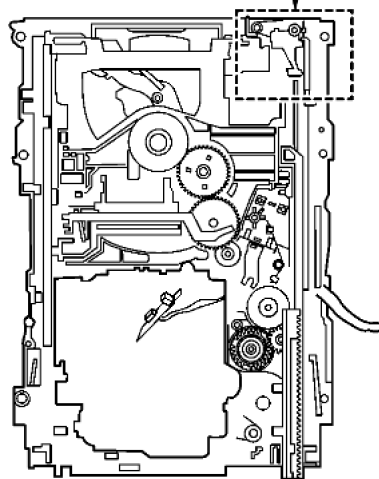
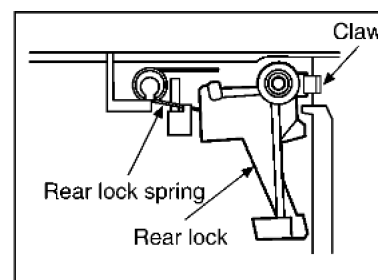
**Step 5** Release the 2 claws, and then remove the bottom SW P.C.B..



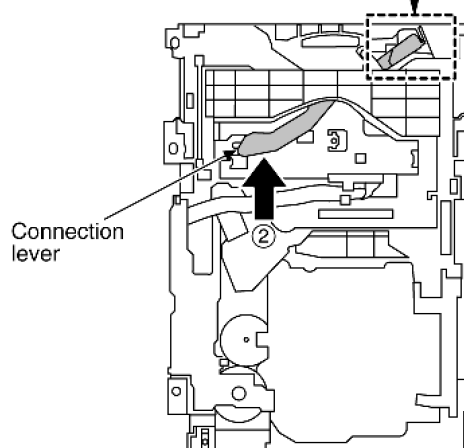
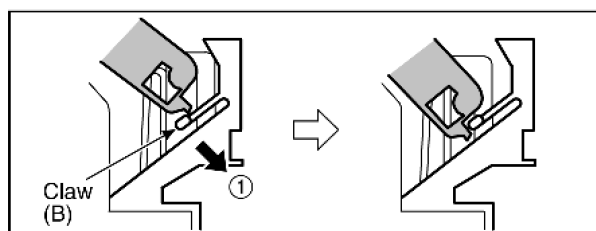
**Step 6** Install the tray lock spring to hook temporary.

**Step 7** Release the claw, and then remove the tray lock.

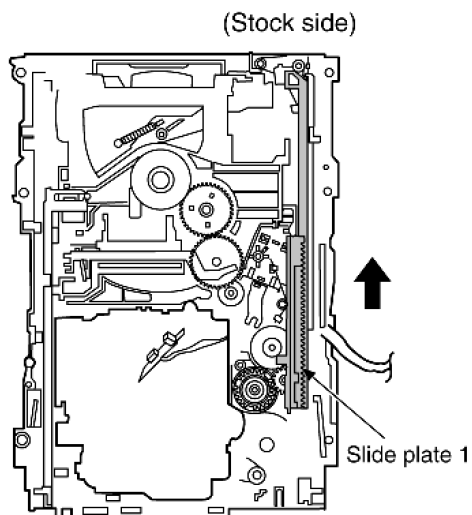
**Step 8** Release the claw, and then remove the rear lock.



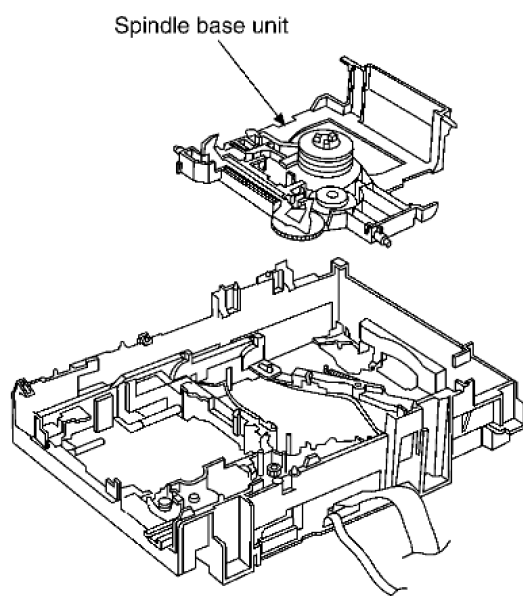
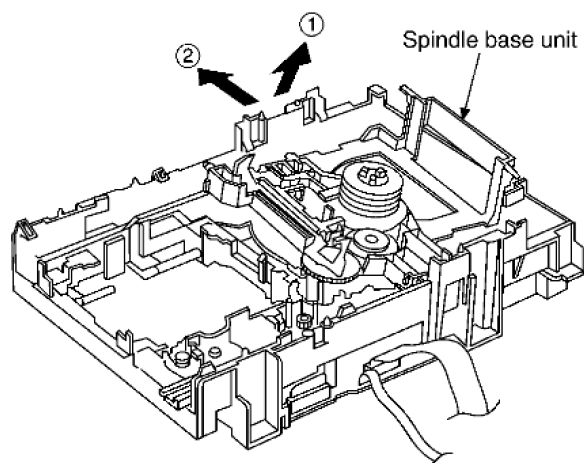
**Step 9** Pressing the claw (B) in the direction of arrow (1), force the connection lever in the direction of arrow (2).



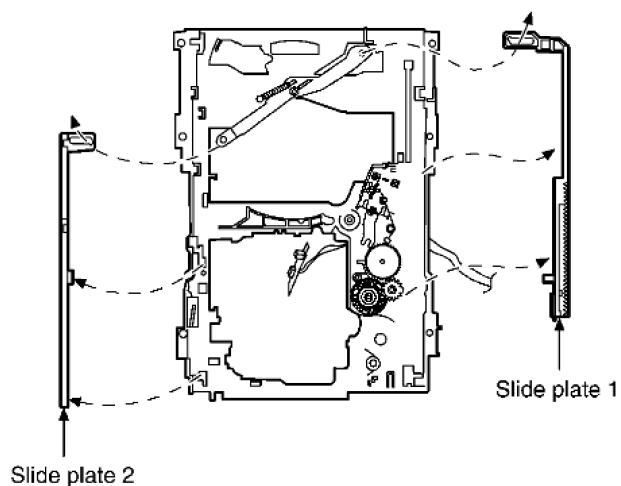
**Step 10** Move the slide plate 1 to the end of stock side.



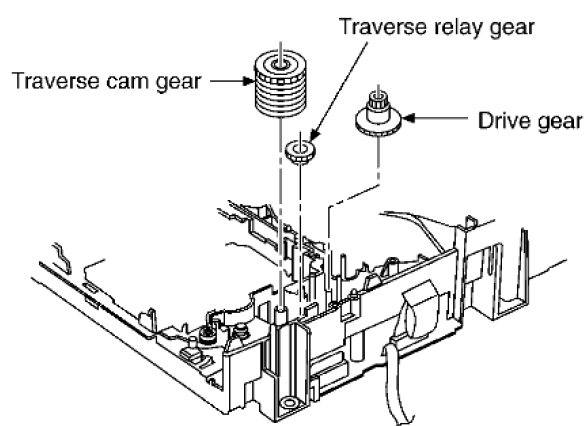
**Step 11** Lift up the left end of spindle base unit in the direction of arrow (1), and then remove the unit in the direction of arrow (2).



**Step 12** Remove slide plate 1 and slide plate 2.

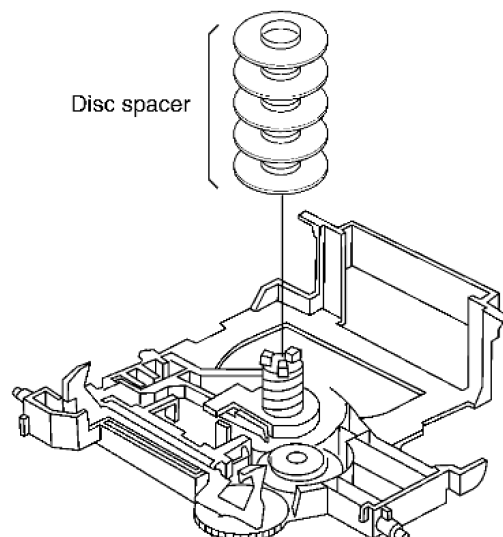


**Step 13** Remove the traverse relay gear, traverse cam gear and drive gear.

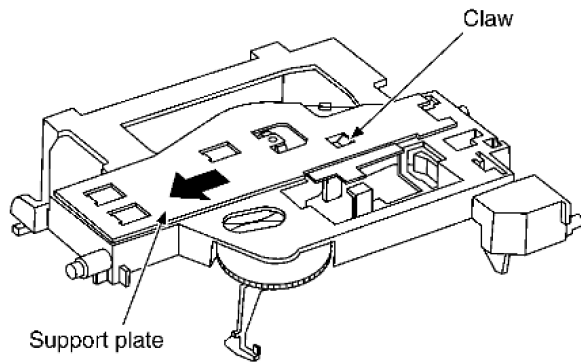


**[Disassembly/reassembly for the spindle base unit]**

**Step 1** Draw the 5 disc spacers.

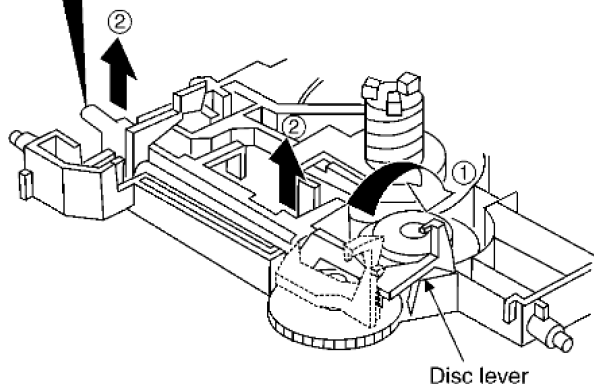
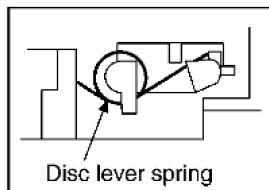


**Step 2** Pushing the claw, slide the support plate in the direction of arrow, and then remove it.



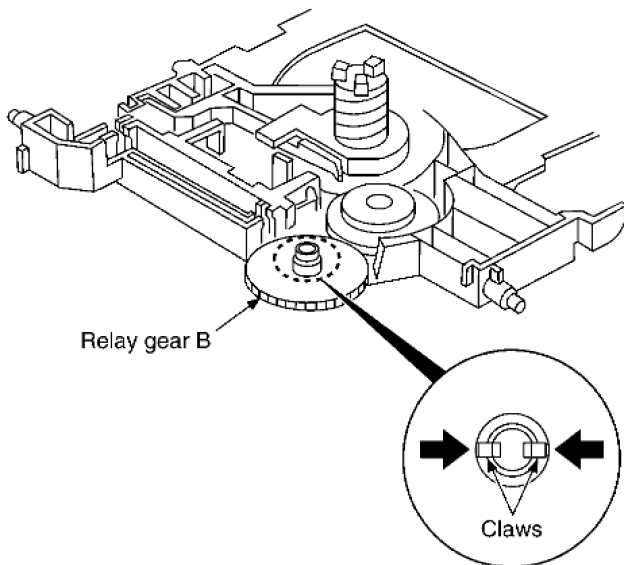
**Step 3** Rotate the disc lever in the direction of arrow (1), draw the disc lever.

(Installation for disc lever spring)



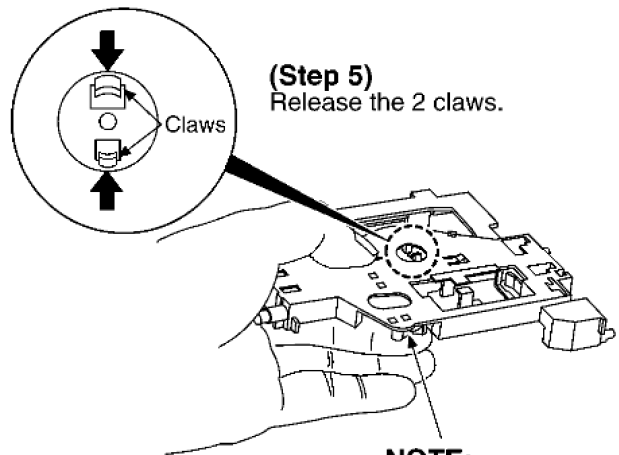
**NOTE:**

Take care not to lose the disc lever spring.



**Step 4** Release the 2 claws, and then draw the relay gear B.

**Step 5** Release the 2 claws as shown below.

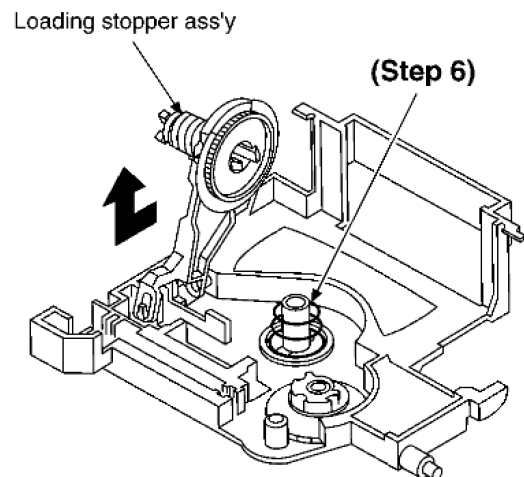


**(Step 5)**  
Release the 2 claws.

**NOTE:**  
Hold the loading stopper ass'y manually because it is flipped by spring.

**NOTE:**

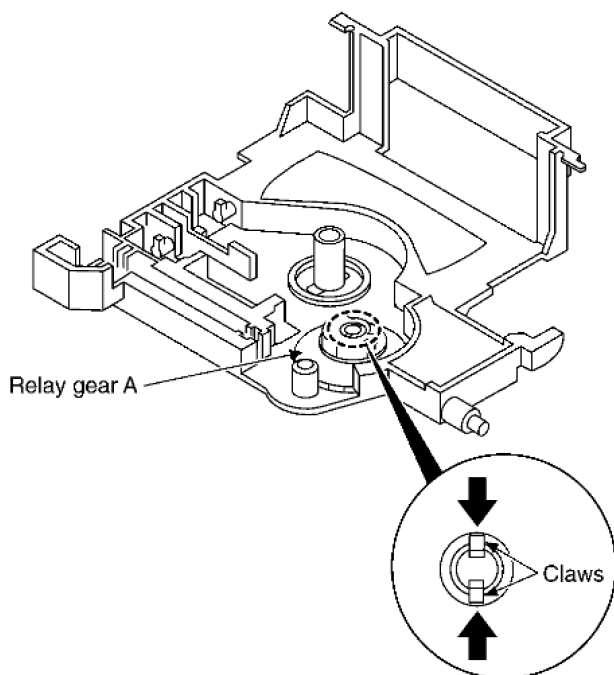
Hold the loading stopper ass'y manually because it is flipped by spring.



**(Step 6)**

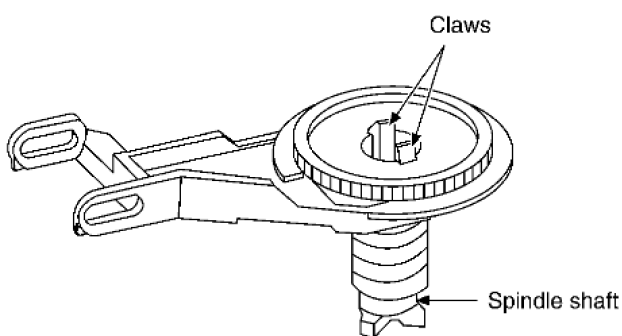
**Step 6** Remove the cushion spring.

**Step 7** Remove the loading stopper ass'y in the direction of arrow.

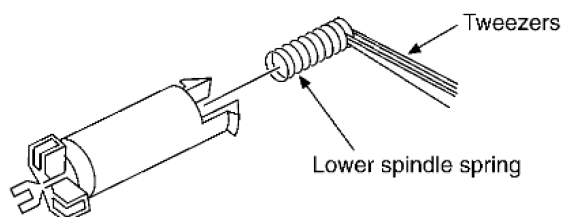


**Step 8** Release the 2 claws, and then remove the relay gear A.

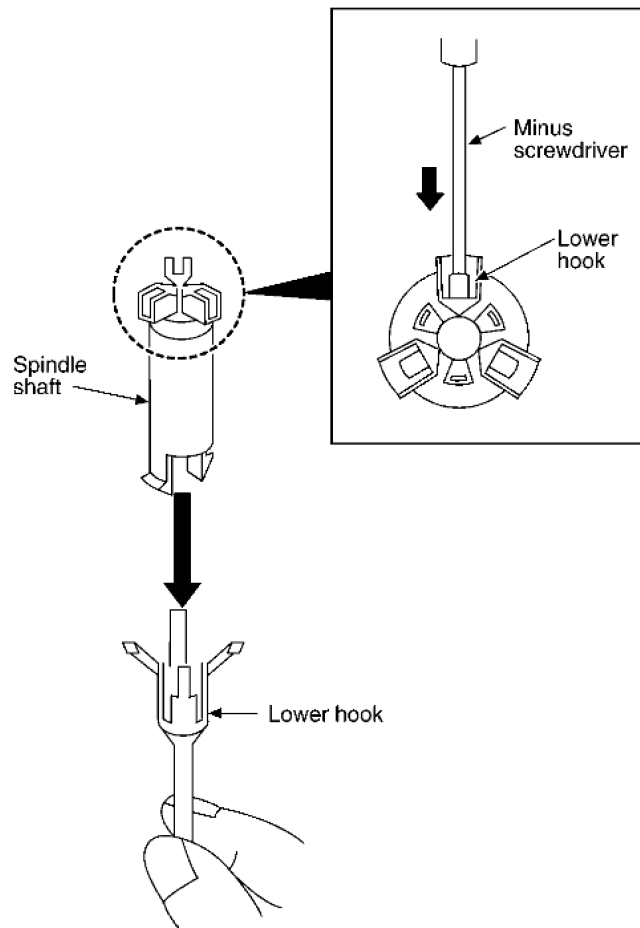
**Step 9** Release the 2 claws, and then remove the spindle shaft.



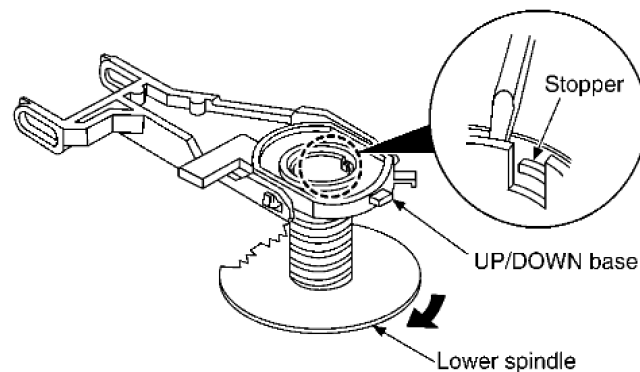
**Step 10** Remove the lower spindle spring with tweezers.



**Step 11** Force the lower hook with thin tip of minus screwdriver.

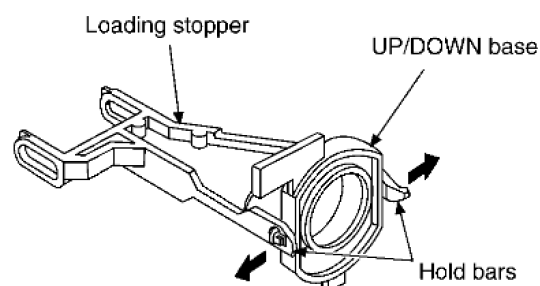


**Step 12** Squeeze the shaft of lower hook, and then draw it.



**Step 13** Rotate the lower spindle in the direction of arrow until the lower spindle interferes with stopper.

**Step 14** Insert the thin tip of minus screwdriver between the lower spindle and UP/DOWN base, and then slacken the lower spindle to release the stopper. Then, rotate the lower spindle and remove it.

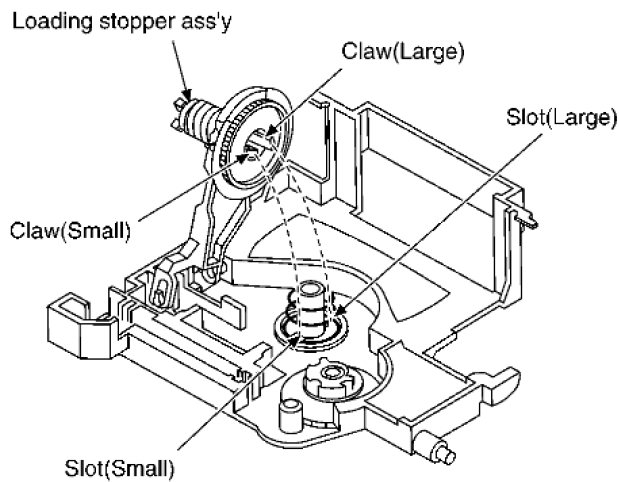


**Step 15** Rotate the UP/DOWN base at a 90° angle. Then,

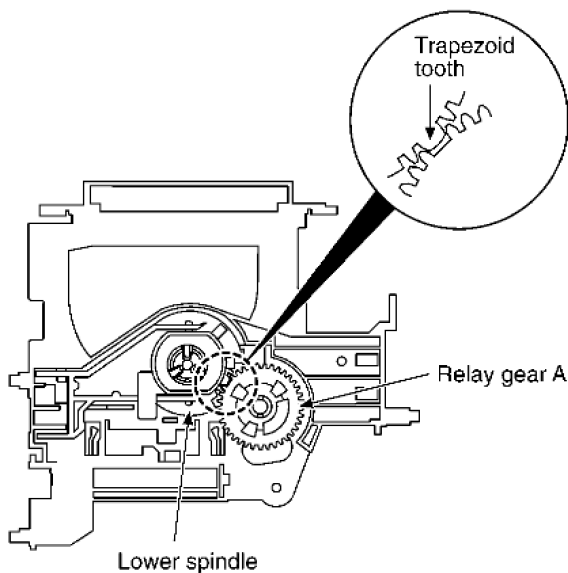
spread the hold bars of loading stopper and remove the UP/DOWN base.

### [Installation for loading stopper ass'y]

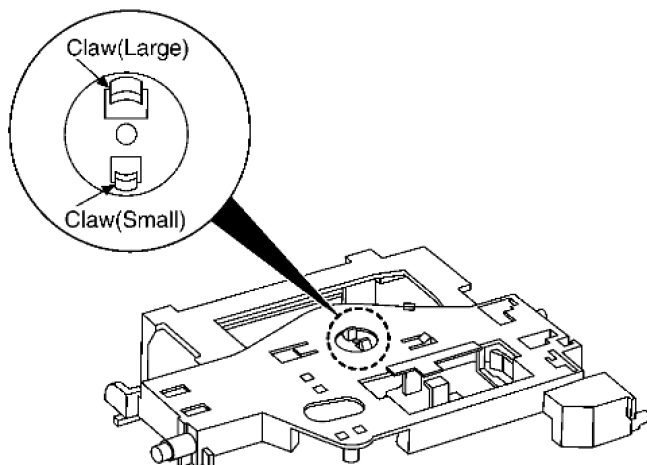
**Step 1** Align the claw of loading stoppers ass'y with the slot of spindle base. (Caution should be exercised when alignment of claw due to the size of claws.)



**Step 2** Lower the loading stopper ass'y, and then align the lower spindle with the trapezoid tooth of relay gear A.



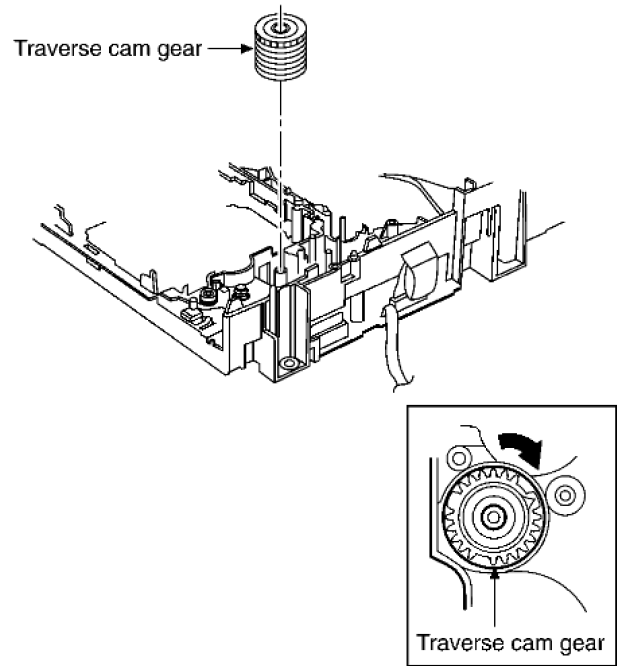
**Step 3** Force the loading stopper ass'y, latch the claw firmly.



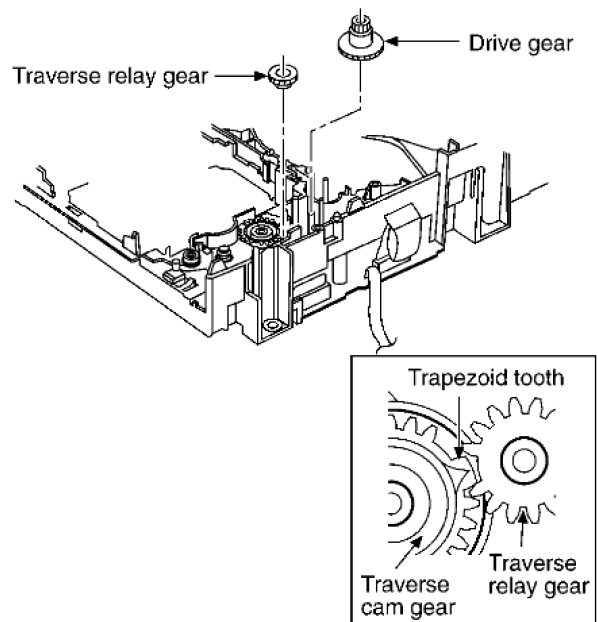
### [Reassembly for mechanism base drive unit]

**Step 1** Install the traverse cam gear.

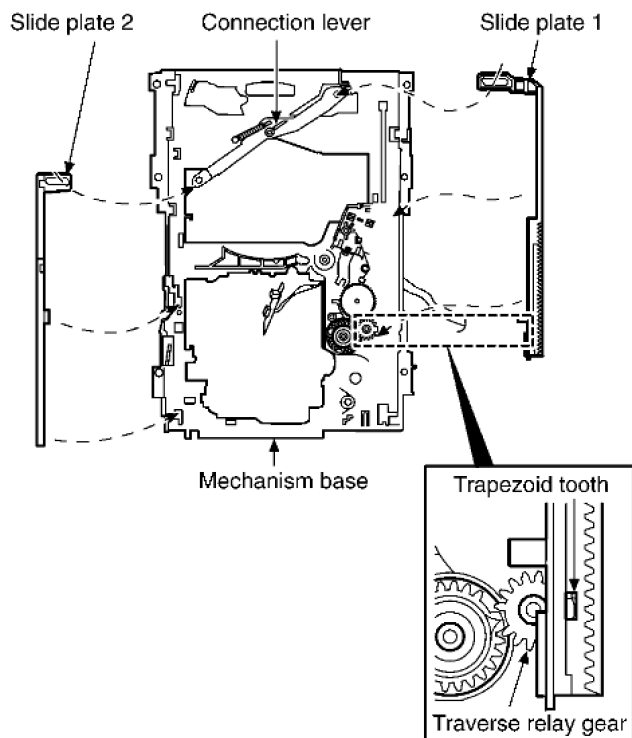
**Step 2** Rotate the traverse cam gear to the direction of arrow.



**Step 3** Install the drive gear and traverse relay gear.

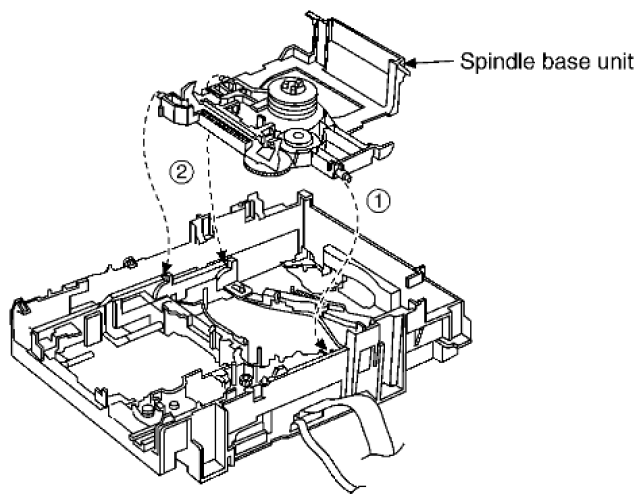


\*When installing the traverse relay gear, align the trapezoid tooth of gear with tooth of traverse cam gear.

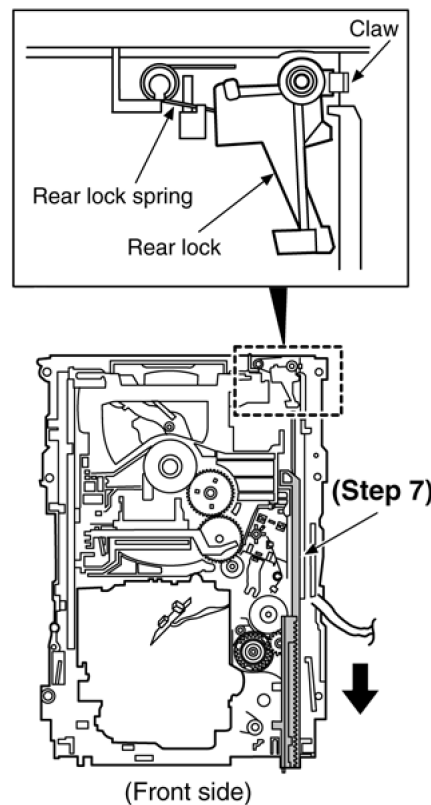


**Step 4** Install the slide plate 2 to the mechanism base, and then match to the connection lever.

**Step 5** Install the slide plate 1 to the mechanism base, and then match to the connection lever and align the trapezoid tooth of traverse relay gear with the slide plate 1.



**Step 6** Install the spindle base unit. (First, slide plate 1.)

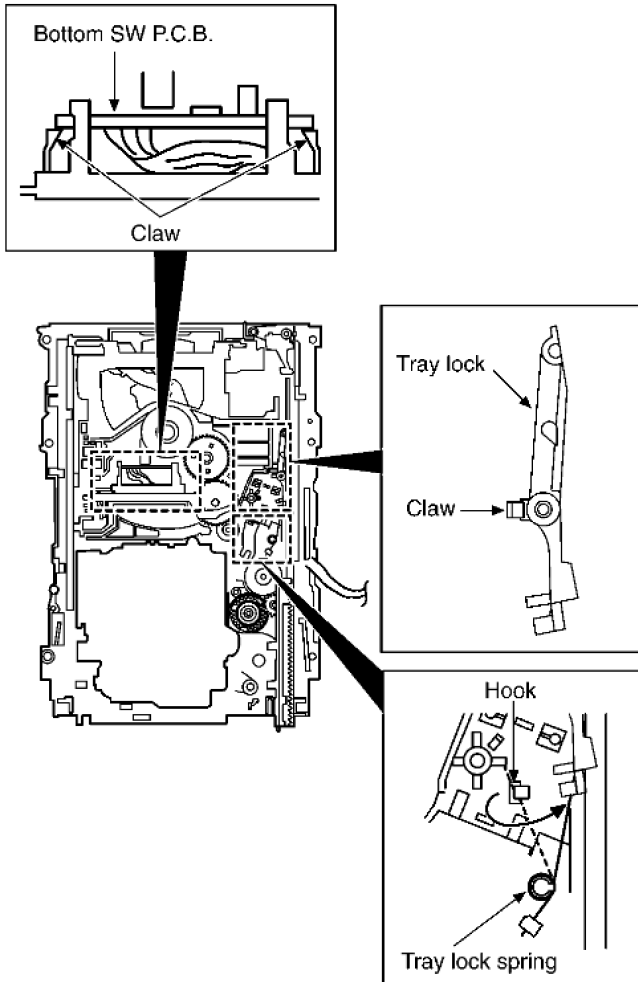


**Step 7** Move the slide plate 1 to forward fully.

**Step 8** Install the rear lock. (The claw should be latched.)

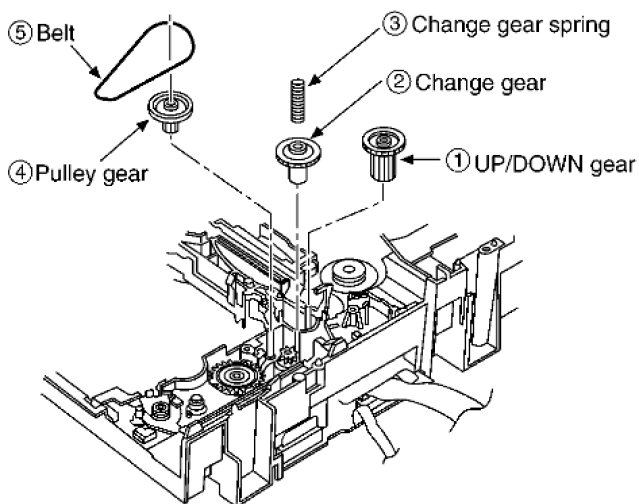
**Step 9** Install the Spindle Position P.C.B.. (The claw should be latched.)

**Step 10** Install the tray lock. (The claw should be latched.)

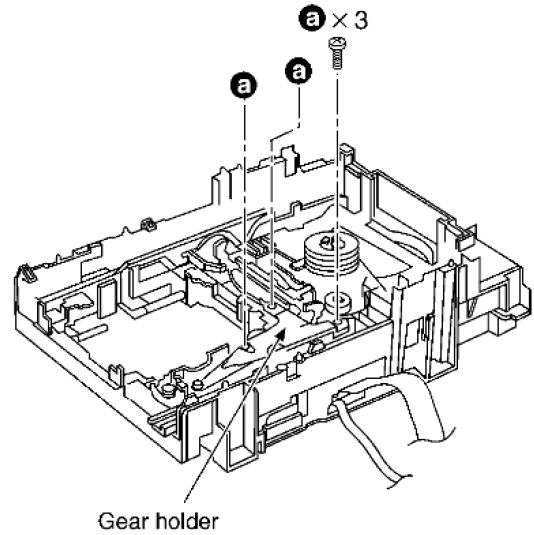


**Step 11** Remove the tray lock spring from hook, and then latch to the tray lock.

**Step 12** Install the UP/DOWN gear, change gear, change gear spring, pulley gear and belt in the order of (1) - (5).



**Step 13** Install the gear holder, and then tighten the screw (a).



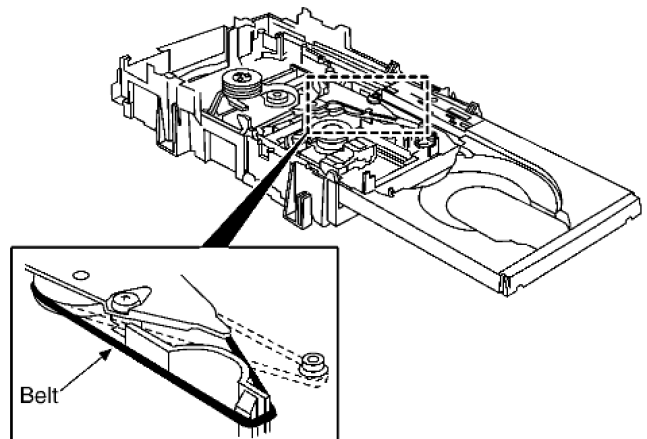
**Step 14** Install the tray base, traverse ass'y, mechanism cover and upper plate.

[Operation check after servicing]

Check the proper operation of following items with gear and hexagonal screwdriver.

1. Open/close of tray base.
2. Moving the tray base to the stock side.
3. UP/DOWN operation of spindle base unit.
4. UP/DOWN operation of traverse ass'y.

#### 9.6.4. Replacement for the motor ass'y



**Step 1** Install the belt temporarily.

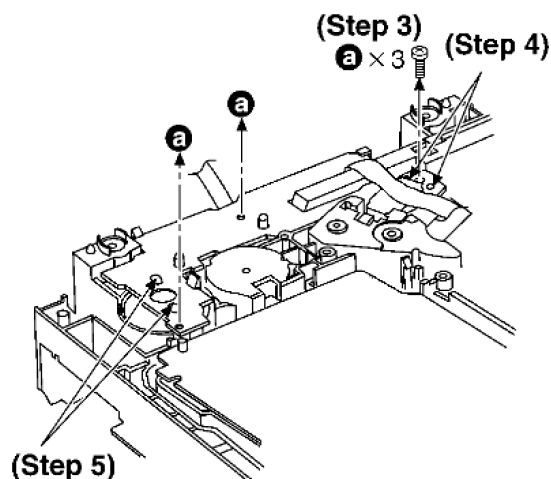
**NOTE:**

Take care not apply the grease to the belt.

**Step 2** Upset the CD loading unit.

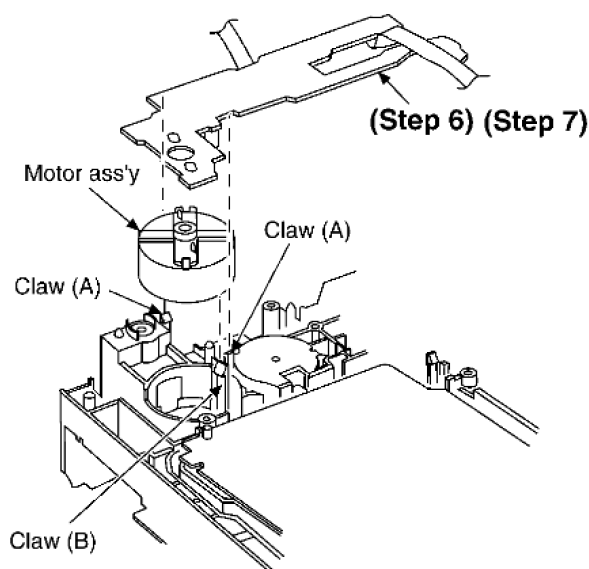
**Step 3** Remove 3 screws.





**Step 4** Unsolder the plunger terminals (2 points).

**Step 5** Unsolder the motor terminals (2 points).

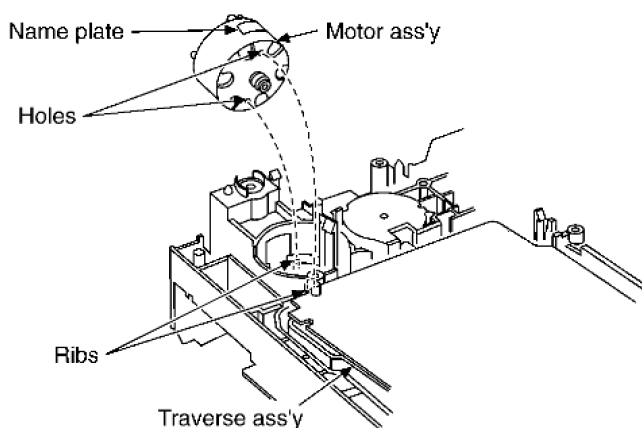


**Step 6** Release the 2 claws (A), and then remove the Motor P.C.B.

**Step 7** Release the claw (B), and then remove the motor ass'y.

**[Notice for motor ass'y installation]**

1. Locate the name plate of motor to the traverse ass'y.
2. Align the hole of motor with the ribs.

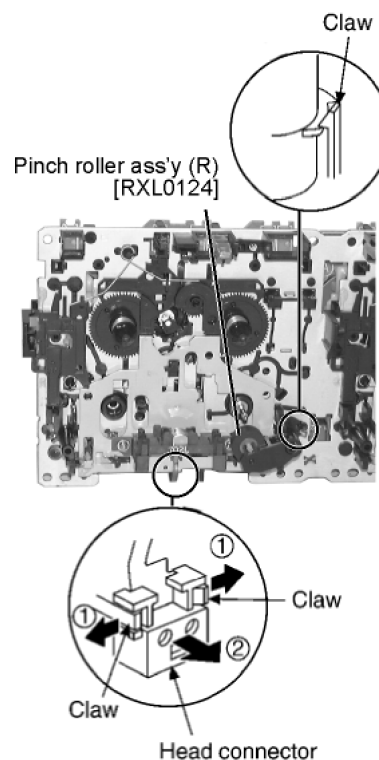


## 9.7. Disassembly Deck Mechanism

### 9.7.1. Replacement for the pinch roller ass'y and head block

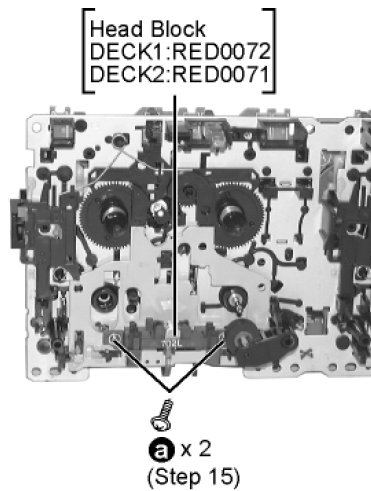
- Follow the (Step 1) - (Step 2) of Item 9.1 - Disassembly of Top Cabinet and Rear Panel
- Follow the (Step 1) - (Step 6) of Item 9.1.1 - Disassembly for CD Lid
- Follow the (Step 1) - (Step 2) of Item 9.2 - Disassembly for the CD Mechanism Unit
- Follow the (Step 1) of Item 9.3 - Disassembly for the Main P.C.B. & Transformer P.C.B.
- Follow the (Step 1) - (Step 2) of Item 9.4 - Disassembly for the Panel P.C.B. & Tact Switch P.C.B.
- Follow the (Step 1) - (Step 5) of Item 9.5 - Disassembly for the Deck Mechanism Unit & Deck P.C.B.

\* The mechanism as shown below is for DECK1. For the one of DECK 2, perform the same procedures.



**Step 1** Release the 2 claws, and then remove the pinch roller (R), (F).

**Step 2** Release the 2 claws, and then remove the head connector.



**Step 3** Remove 2 screws.

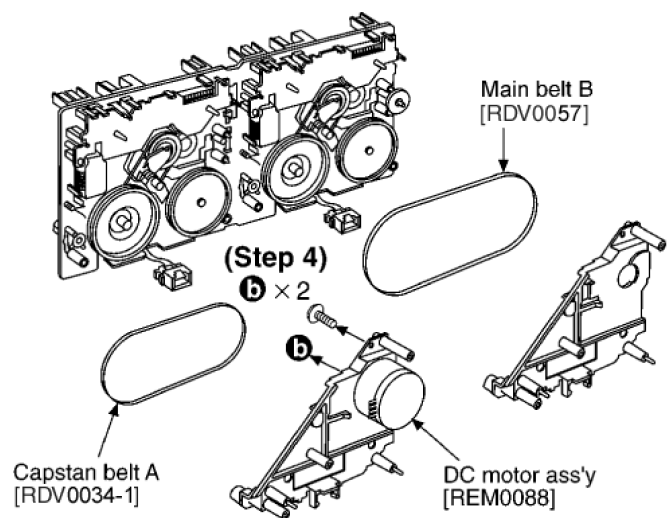
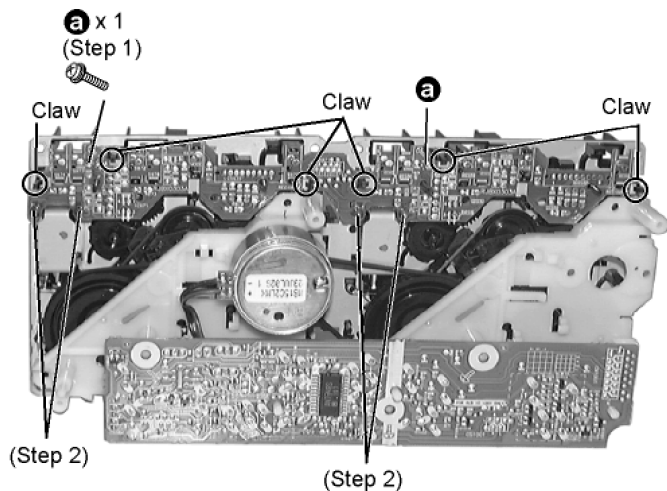
### 9.7.2. Replacement for the Deck motor ass'y, capstan belt A, capstan belt B and winding belt

- Follow the (Step 1) - (Step 2) of Item 9.1 - Disassembly of Top Cabinet and Rear Panel
- Follow the (Step 1) - (Step 6) of Item 9.1.1 - Disassembly for CD Lid
- Follow the (Step 1) - (Step 2) of Item 9.2 - Disassembly for the CD Mechanism Unit
- Follow the (Step 1) of Item 9.3 - Disassembly for the Main P.C.B. & Transformer P.C.B.
- Follow the (Step 1) - (Step 2) of Item 9.4 - Disassembly for the Panel P.C.B. & Tact Switch P.C.B.
- Follow the (Step 1) - (Step 5) of Item 9.5 - Disassembly for the Deck Mechanism Unit & Deck P.C.B.

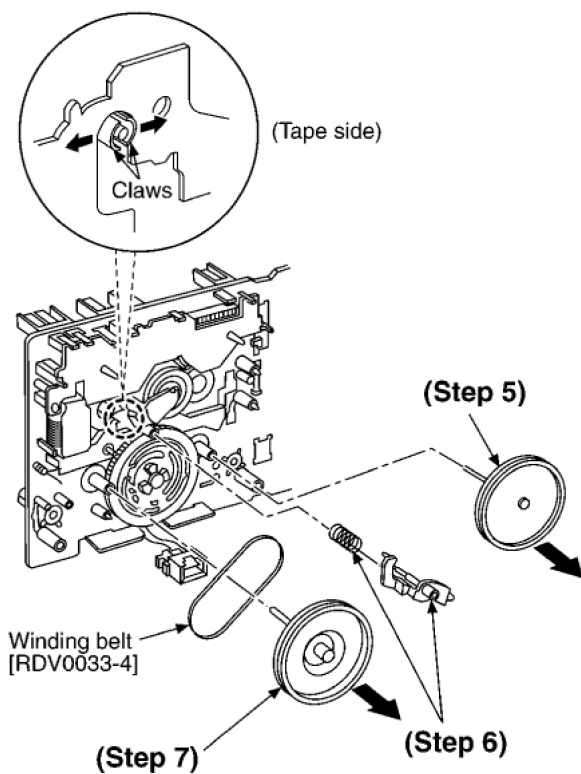
**Step 1** Release the 2 claws, and then remove the head connector.

**Step 2** De-solder plunger point.

**Step 3** Remove the Deck Mechanism P.C.B.



**Step 4** Remove 3 screws.



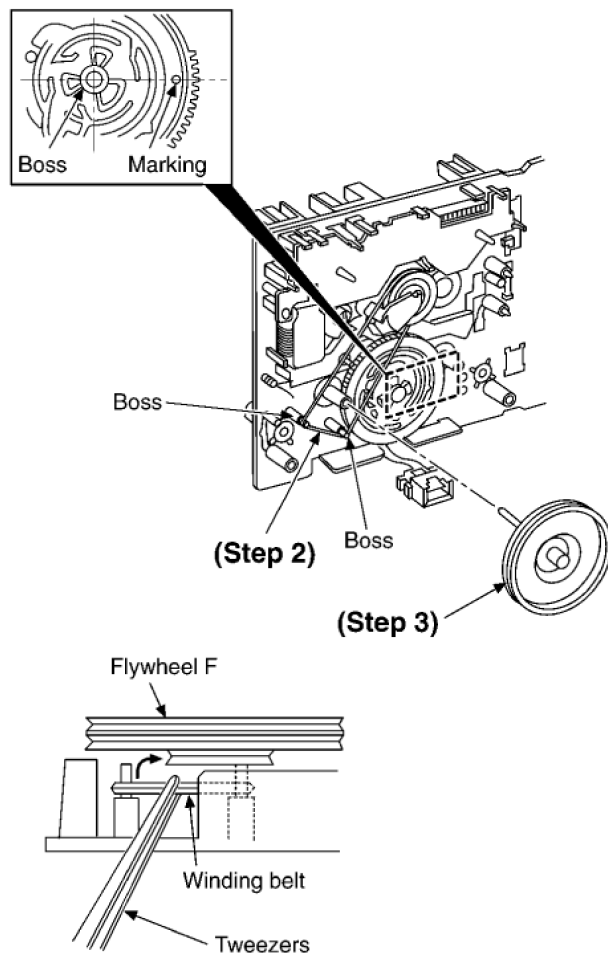
**Step 5** Remove the flywheel R.

**Step 6** Release the claw of tape side, and then remove the winding lever and spring.

**Step 7** Remove the flywheel F.

#### [Installation of the belt]

**Step 1** The boss and marking should be positioned horizontally.



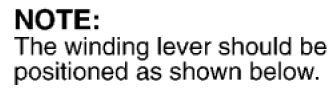
**Step 2** Put the winding belt on the pulley temporarily.

**Step 3** Install the flywheel F.

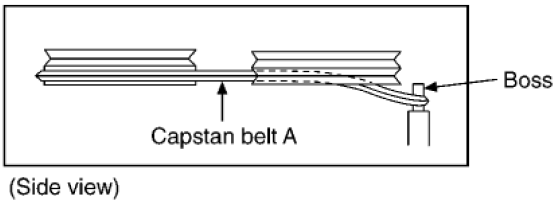
**Step 4** Put the winding belt on the flywheel F.

**Step 5** Install the winding lever and spring while pressing the winding arm in the direction of arrow.

**Step 6** Install the flywheel R.



**Step 7** Put the capstan belt A temporarily as shown below.



**Step 8** Put the capstan belt B on the motor ass'y pulley.

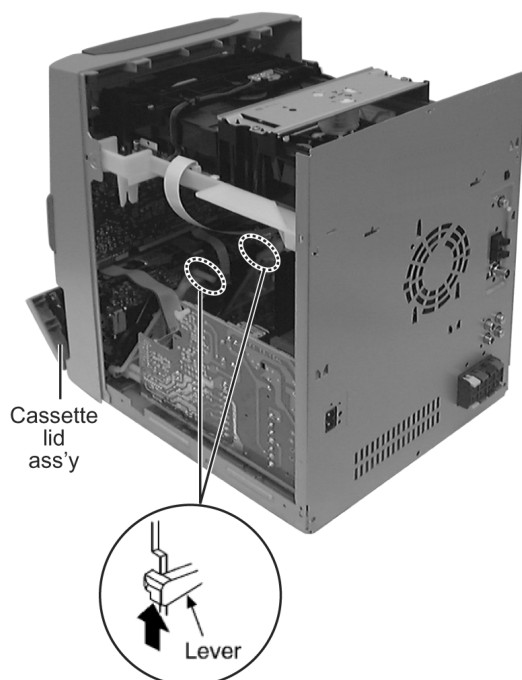
**Step 9** Install the sub chassis to the mechanism, and then tighten screws.



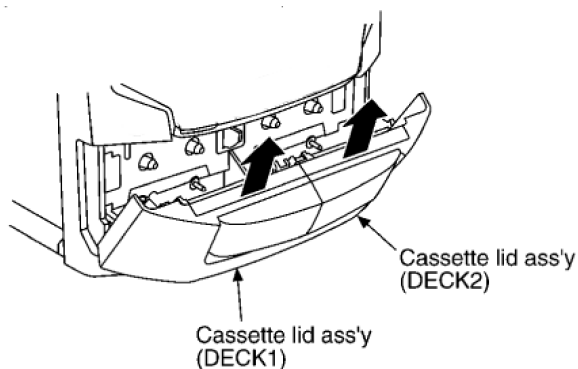
## 9.8. Replacement for the cassette lid ass'y

- Follow the (Step 1) - (Step 2) of Item 9.1 - Disassembly of Top Cabinet and Rear Panel

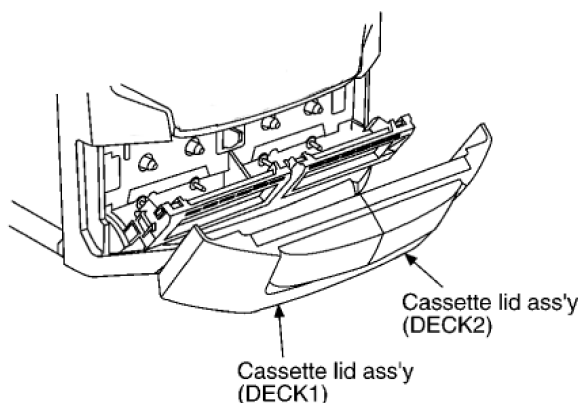
**Step 1** Push the lever upward, open the cassette lid ass'y. (For DECK1 and DECK2)



**Step 2** Lift up the cassette lid ass'y in the direction of arrow. (For DECK1 and DECK2).



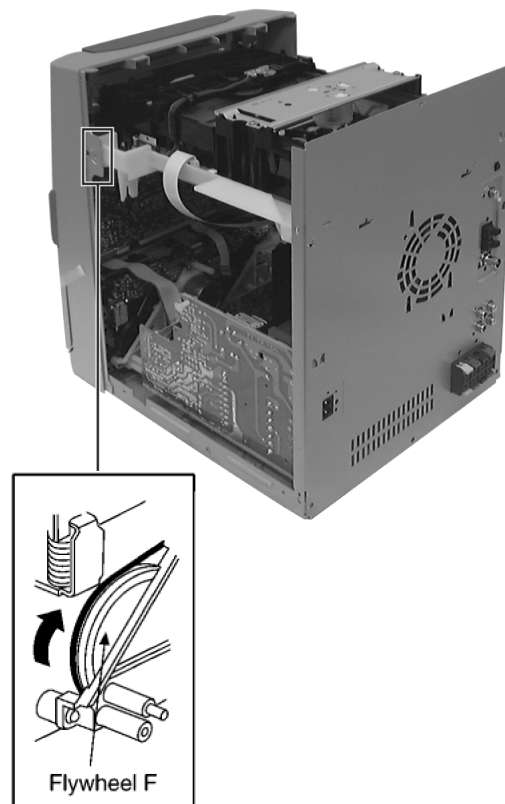
**Step 3** Remove the cassette lid ass'y. (For DECK1 and DECK2).



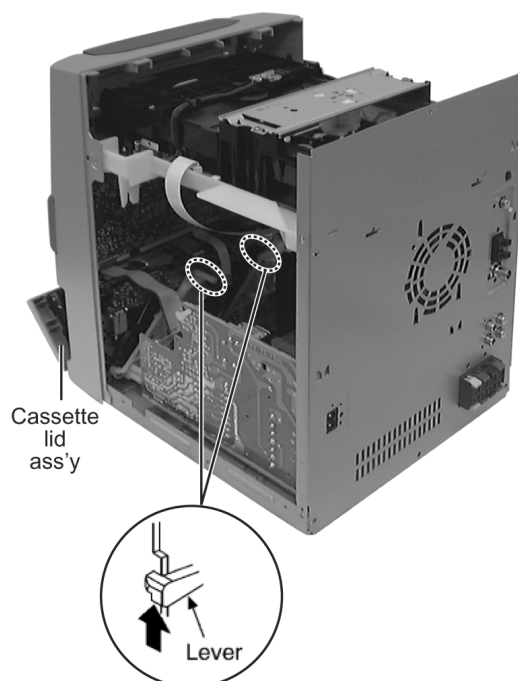
## 9.9. Measure for tape trouble

- Follow the (Step 1) - (Step 2) of Item 9.1 - Disassembly of Top Cabinet and Rear Panel

**Step 1** If a cassette tape cannot be removed from the deck since the tape is caught by the capstan or pinch roller during playback or recording, rotate the flywheel F in the direction of the arrow to remove the tape.



**Step 2** Push the lever upward and open the cassette lid ass'y. Take the cassette tape off.



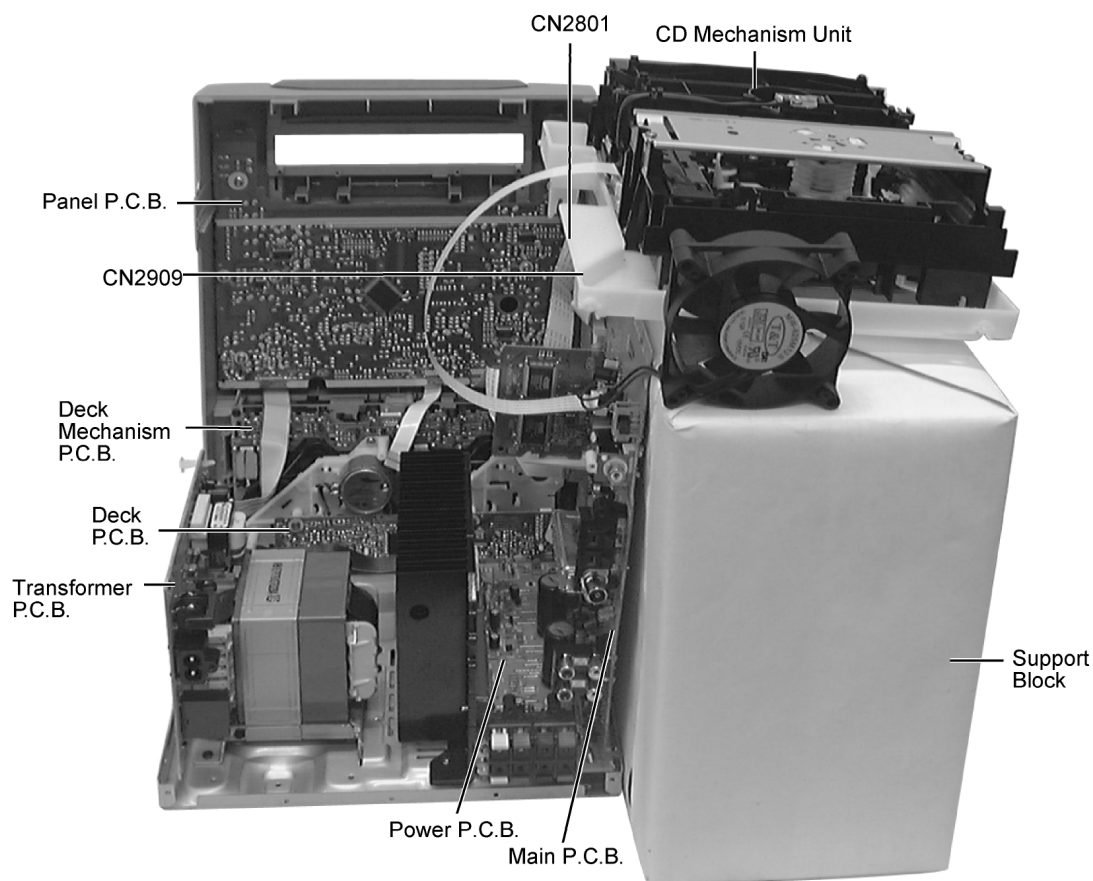
## 10 Service Position

### Note:

For the disassembling procedure, see Section 9.

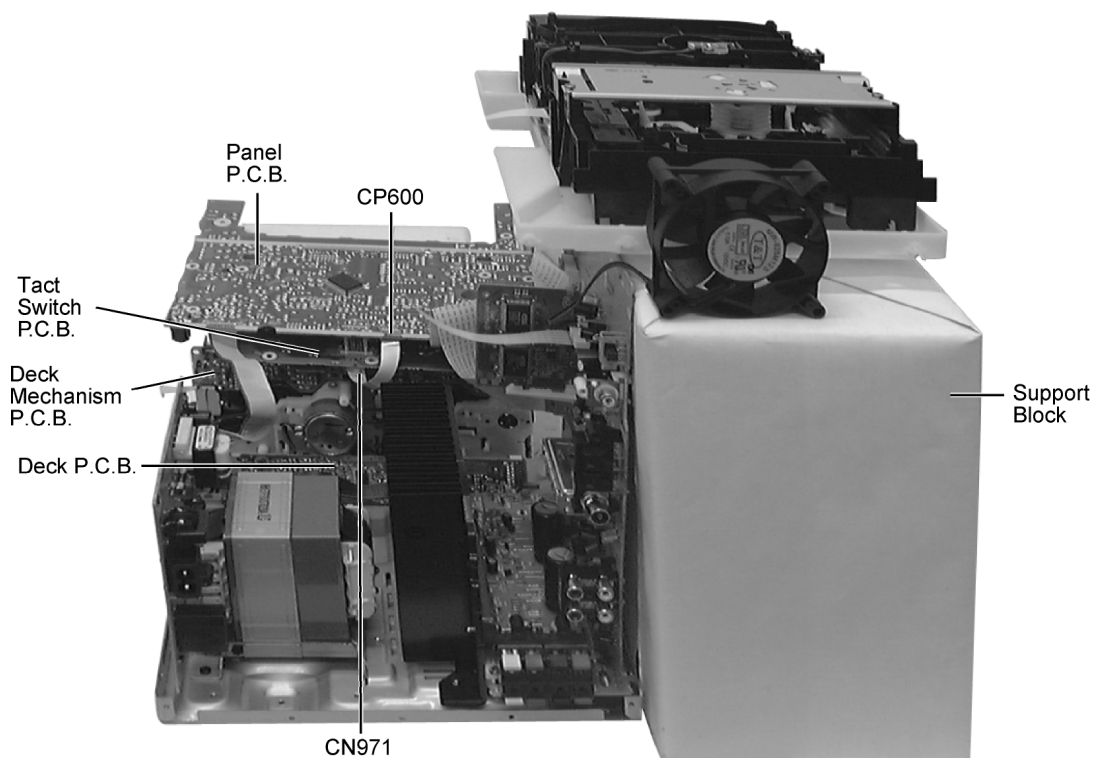
### 10.1. Checking the Main P.C.B., Power P.C.B. & Transformer P.C.B.

1. Disassembly of Top Cabinet and Rear Panel.
2. Disassembly of CD Lid.
3. Disassembly of CD Mechanism Unit.
4. Connect FFC board (CN309 & CN310) from CD Mechanism Unit.



## 10.2. Checking the Panel P.C.B., Tact Switch P.C.B., Deck P.C.B. & Deck Mechanism P.C.B.

1. Disassembly of Top Cabinet and Rear Panel.
2. Disassembly of CD Lid.
3. Disassembly of CD Mechanism Unit.
4. Remove volume knob at front panel.
5. Disassembly of Panel P.C.B. & Tact Switch P.C.B.
6. Disassembly of Deck Mechanism P.C.B.
7. Use the extension cable (REEX0310 - 10 Pins) to reconnect (CP600) Panel P.C.B. and (CN971) Deck Mechanism P.C.B.



## 11 Description of Error Code

### 11.1. Abnormality Detection for DECK Mechanism

| No. | Error               | Error Display | Problem condition                                                                                                                                                                                                                                                                                 |
|-----|---------------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | MODE SW abnormal    | H01           | Normal operation during mecha transition, MODE SW abnormal is memorized. The content of abnormality can be confirmed in the abnormal detection mode explained in the later section.<br>The content of abnormality can be confirmed in the abnormal detection mode explained in the later section. |
| 2   | REC INH SW abnormal | H02           |                                                                                                                                                                                                                                                                                                   |
| 3   | HALF SW abnormal    | H03           |                                                                                                                                                                                                                                                                                                   |
| 4   | abnormal            | F01           |                                                                                                                                                                                                                                                                                                   |

### 11.2. Abnormality detection for CD/Changer Block

| No. | Error                                             | Error Display | Problem condition                                                                                                                                                                                                                             |
|-----|---------------------------------------------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | REST SW abnormal                                  | F15           | Under normal operation (Self-Diagnostic Mode inclusive), this error occurs when the RESTSW ON is not detected within the specified time and shall be memorized.                                                                               |
| 2   | Transmission error between CD servo LSI and micon | F26           | Under normal operation (Self-Diagnostic mode inclusive), this error occurs when the selection is set to CD and SENSE="H" is detected and SENSE="L" is not detected within a fail safe time (20ms) after system command transmission was sent. |
| 3   | CLAMP SW abnormal                                 | F16           | Refer to CR20 control specification section 5-2 [ERROR CODE] table M-0A error is detected.                                                                                                                                                    |
| 4   | BOTTOM SW abnormal                                | F17           | Refer to CR20 control specification section 5-2 [ERROR CODE] table M-09 error is detected.                                                                                                                                                    |
| 5   | POSITION SW abnormal                              | F27           | Refer to CR20 control specification section 5-2 [ERROR CODE] table M-05 ~ M-08 error is detected.                                                                                                                                             |
| 6   | SW1 abnormal                                      | F28           | Refer to CR20 control specification section 5-2 [ERROR CODE] table M-02 ~ M-08 error is detected.                                                                                                                                             |
| 7   | SW2 abnormal                                      | F29           |                                                                                                                                                                                                                                               |
| 8   | OPEN SW abnormal                                  | H15           | Refer to CR20 control specification section 5-2 [ERROR CODE] table M-01 error is detected.                                                                                                                                                    |

### 11.3. Power Supply Related Error Detection

| No. | Error                     | Error Display | Problem condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----|---------------------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | POWER AMP output abnormal | F61           | During normal operation, if DCDT 1/2 becomes "L", normal POWER OFF process shall not be executed, PCNT shall be switched to "L" immediately. GOODBYE shall not be displayed and the error display F61 will be displayed instead.<br>2 seconds after the F61 display, ECONO shall be set to "L" and FL display shall be turned off.<br>The error content shall be memorized when the abnormality occurs and can be displayed in the C-mecha self-diagnostic mode described later. |



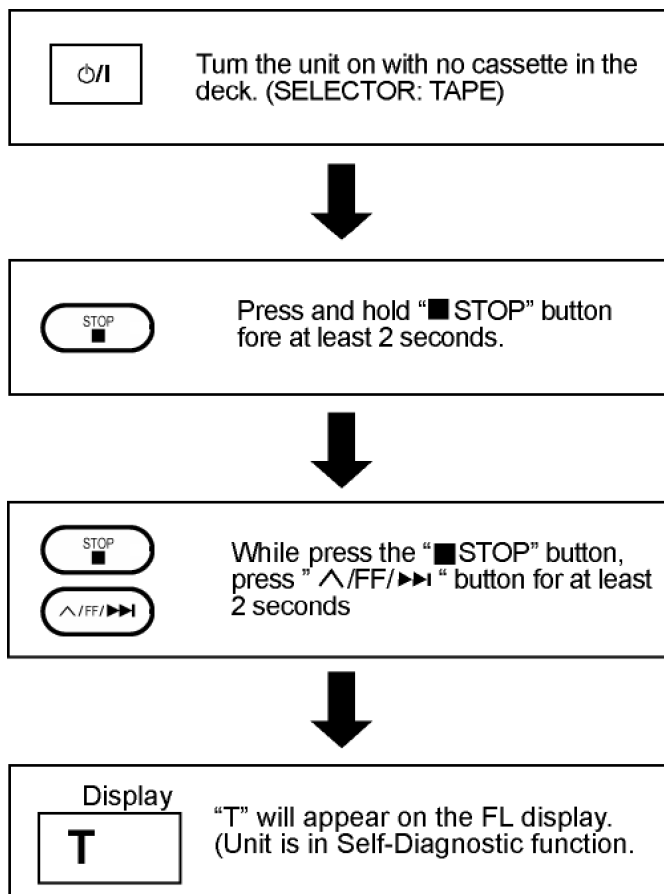
## 12 Self-Diagnostic Function

### 12.1. Self-diagnostic display

This unit is equipped with a self-diagnostic display function which, if a problem occurs, will display an error code corresponding to the problem.

Use this function when performing maintenance on the unit.

### 12.2. How to enter the Self-Diagnostic Function



### 12.3. Cassette Mechanism Test (For error code H01, H02, H03, F01)

1. Press "TAPE, DECK 1/2" to select Deck 2.
2. Load a cassette tape with the erasure prevention tab, remove from left side only and close the cassette holder.
3. Press "FAST FORWARD" (Tape will be stop after 2 seconds)
4. Load a cassette tape with the erasure prevention tab, remove from right side only and close the cassette holder.
5. Press "REVERSE" (Tape will be stop after 2 seconds)
6. Load a pre-recorded tape with both side record tabs intact and close the cassette holder.
7. Press "PLAY" (After TPS function, tape will stop automatically)
8. Press "REC" (Tape will not move)
9. Press "STOP" to indicate Error code.
  - If several problem exist, error code will change each time when "n /STOP" is pressed.  
(e.g. H01 → H03 → F01 .....etc.)
10. Press "TAPE, DECK 1/2" to select Deck 1.
11. Repeat step 2 to 9 to test Deck 1. (Tape Deck 1 will not check H02 because of no recording function)

## 12.4. CD Mechanism Test (F15, F26, F16, F17, F27, F28, F29, H15)

1. Press "CD".
2. Press "OPEN/CLOSE (1)" and place a CD.
3. Press "OPEN/CLOSE (1)" to close the tray.
4. Press "OPEN/CLOSE (5)" and wait until the tray is open.
5. Press "OPEN/CLOSE (1)" and remove the CD.
6. Press "OPEN/CLOSE (1)" to close the tray.
7. Press "n/STOP" to indicate Error Code.

· If several problem exist, error code will change each time when "n/STOP" is pressed. (e.g. F15 → F26 → F16 ....etc).

## 12.5. To clear all Error code

1. Press "STOP/TUNE MODE" button for 5 seconds.
2. FL indicator shows "CLEAR" for 1 second and change to "T".

## 12.6. How to get out from Self-Diagnostic function

1. Press "Power" button OFF.

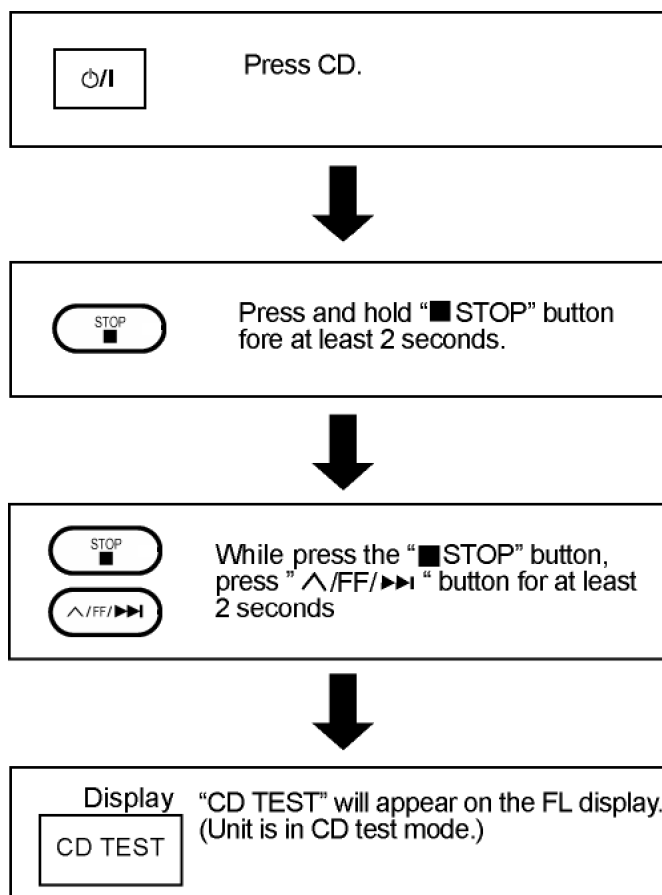
## 12.7. Power Amplifier Failure (F61)

1. When power amplifier fail, F61 will indicate automatically.

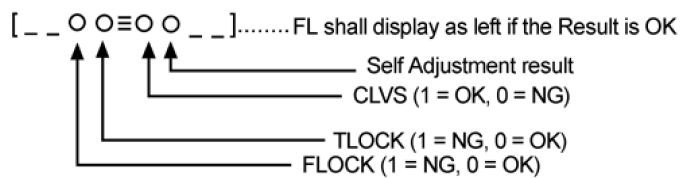
# 13 CD Test Mode Function

This CD test mode is provided to check CD unit without connecting to changer loading mechanism. This mode shall operate CD PLAY with CD unit being connected only and CD Automatic Alignment result is shown on FL display.

## 13.1. How to set CD test mode



and CLVS status shall be shown as below:



During the above display, executing CD PLAY will display auto adjustment result for CD PLAY mode.

# 14 Measurements and Adjustments

## 14.1. Cassette Deck Section

### • Measurement Condition

- Reverse-mode selector switch: 
- Tape edit: NORMAL
- Make sure head, capstan and press roller are clean.
- Judgeable room temperature  $20 \pm 5^{\circ}\text{C}$  ( $68 \pm 9^{\circ}\text{F}$ )

### • Measuring instrument

- EVM (DC Electronic Voltmeter)
- Digital frequency counter

### • Test Tape

- Tape speed gain adjustment (3 kHz, -10 dB); QZZCWAT

### 14.1.1. Head Azimuth Adjustment (Deck 1/2)

#### Caution:

- Please replace both azimuth adjustment screw and springs simultaneously when readjusting the head azimuth. (shown in Fig. 2) Even if you wish to readjust the head azimuth without replacing the screws and springs, a fine adjustment to the azimuth screw and spring.
- Please remove the screw-locking bond left on the head base when replacing the azimuth screw.
- If you wish to readjust the head azimuth, be sure to adjust with adhering the cassette tape closely to the mechanism by pushing the center of cassette tape with your finger. (shown in Fig. 3)

1. Playback the azimuth adjustment portion (8 kHz, -20dB) of the test tape (QZZCFM) in the forward play mode. Vary the azimuth adjustment screw until the output of the R-CH (PB OUT-R) are maximized.

2. Perform the same adjustment in the reverse play mode.

3. After the adjustment, apply screwlock to the azimuth adjusting screw.

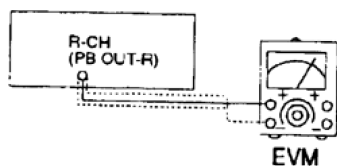


Fig. 1

-  Screw
-  Springs

Fig. 2

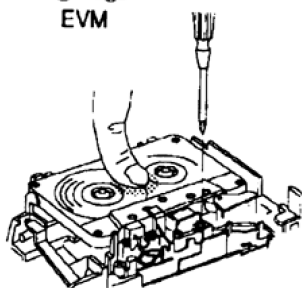


Fig. 3

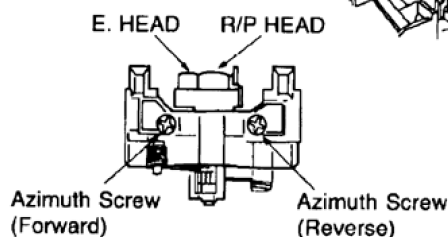


Fig. 4

### 14.1.2. Tape Speed Adjustment (Deck 1/2)

1. Set the tape edit button to "NORMAL" position.
2. Insert the test tape (QZZCWAT) to DECK 2 and playback (FWD side) the middle portion of it.
3. Adjust Motor VR (DECK 2) for the output value shown below.

Adjustment target: 2940 ~ 3060 Hz (NORMAL speed)

4. After alignment, assure that the output frequency of the DECK 1 FWD are within  $\pm 60$  Hz of the value of the output frequency of DECK 2 FWD.

#### UNIT

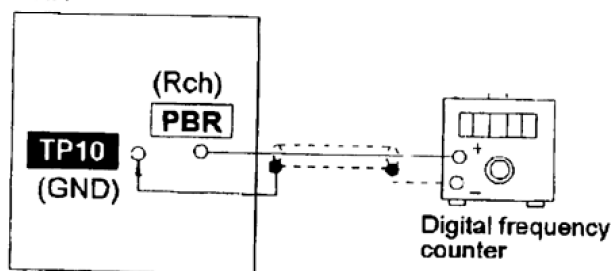


Fig. 1

### 14.1.3. Bias and Erase Voltage Check

1. Set the unit "AUX" position.
2. Insert the Normal blank tape (QZZCRA) into DECK 2 and the unit to "REC" mode (use "I REC/STOP" key).
3. Measure and make sure that the output is within the standard value.

|                          |                       |
|--------------------------|-----------------------|
| Bias voltage for Deck 2  | 14 $\pm$ 4mV (Normal) |
| Erase voltage for Deck 2 | 80mV (Normal)         |

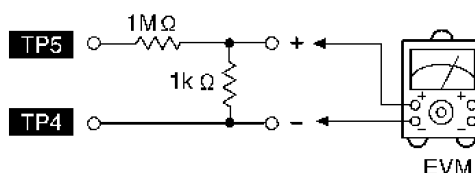


Fig. 2

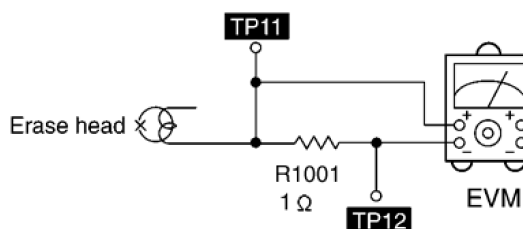


Fig. 3

#### 14.1.4. Bias Frequency Adjustment (Deck 1/2)

1. Set the unit to "AUX" position.
2. Insert the Normal blank tape (QZZCRA) into DECK 2 and set the unit to "REC" mode (I use "REC/STOP" key).
3. Adjust L1002 so that the output frequency is within the standard value.

Standard Value:  $97 \pm 8$  kHz

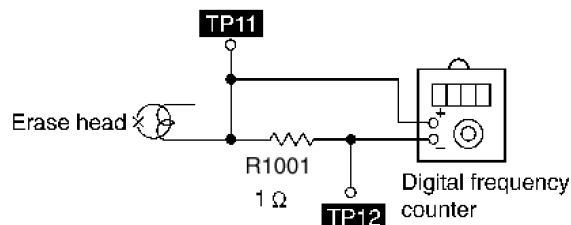


Fig. 4

### 14.2. Tuner Section

#### 14.2.1. AM-IF Alignment

1. Connect the instrument as shown in Fig. 5.
2. Set the unit to AM mode.
3. Apply signal as shown in Fig. 5 from AM-SG.
4. Adjust Z102 so that the output frequency is maximized in Fig. 6.

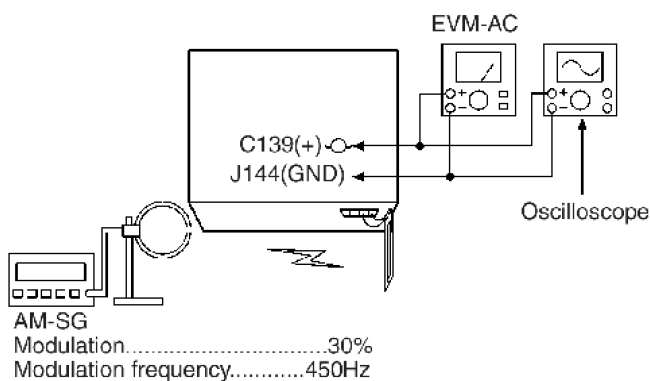


Fig. 5

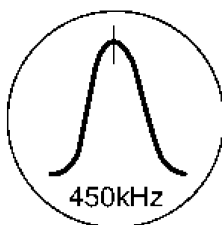


Fig. 6

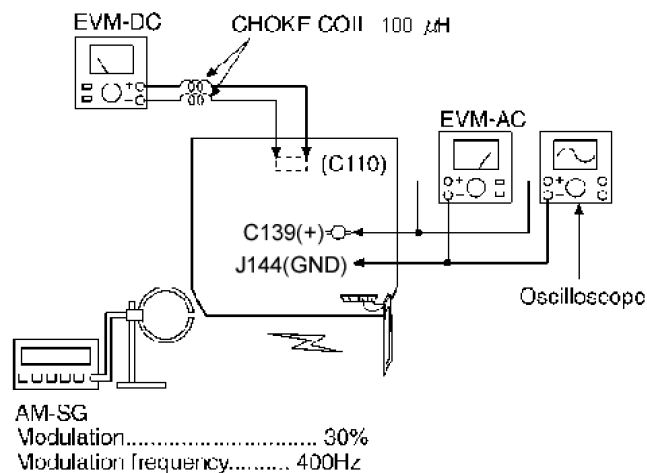


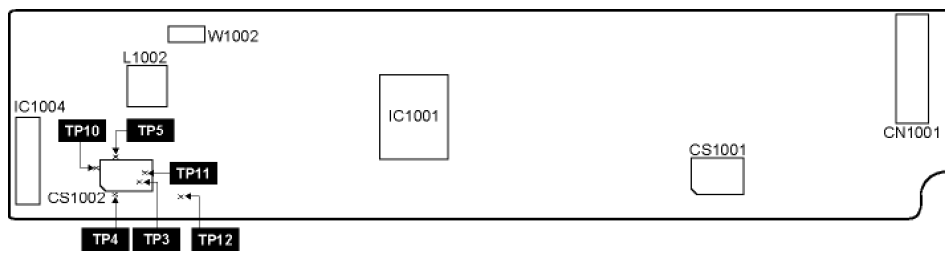
Fig. 7

#### 14.2.2. AM RF Adjustment

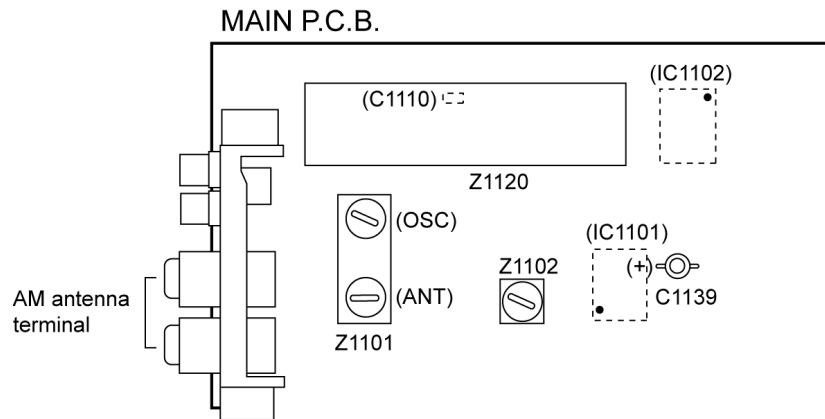
1. Connect the instrument as shown in Fig. 7.
2. Set the unit to AM mode.
3. Set AM-SG to 520kHz.
4. Receive 520kHz in the unit.
5. Adjust Z101 (OSC) so that the EVM-AC is maximized.
6. Set AM-SG to 600Hz.
7. Receive 600Hz in the unit.
8. Adjust Z101 (ANT) so that the EVM-SG is maximized.
9. Set AM-SG to 520kHz.
10. Receive 520kHz in the unit.
11. Adjust Z101 (OSC) so that the EVM-DC value is with  $1.1 \pm 0.5$ V.

## 14.3. Alignment Points

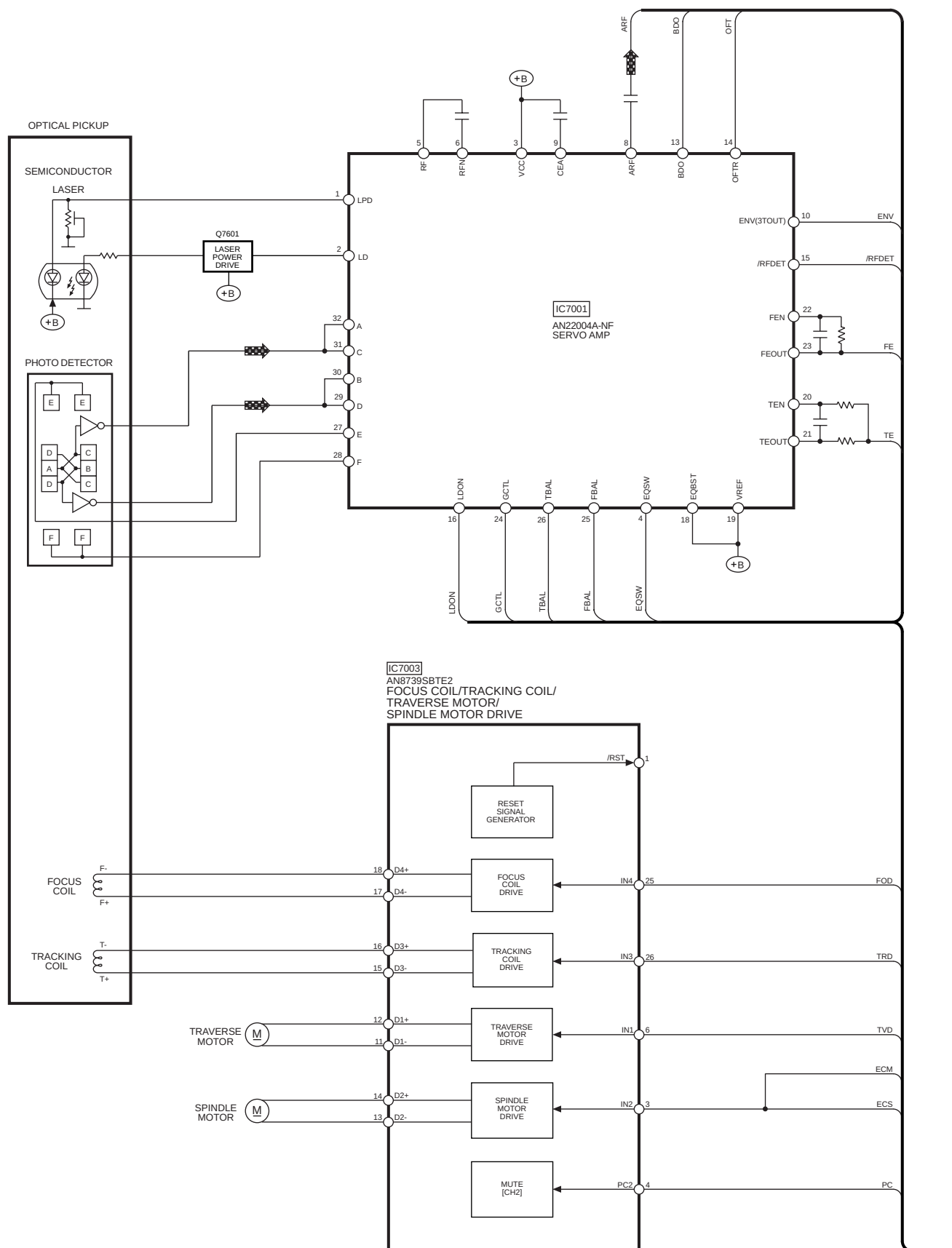
### 14.3.1. Cassette Deck Section

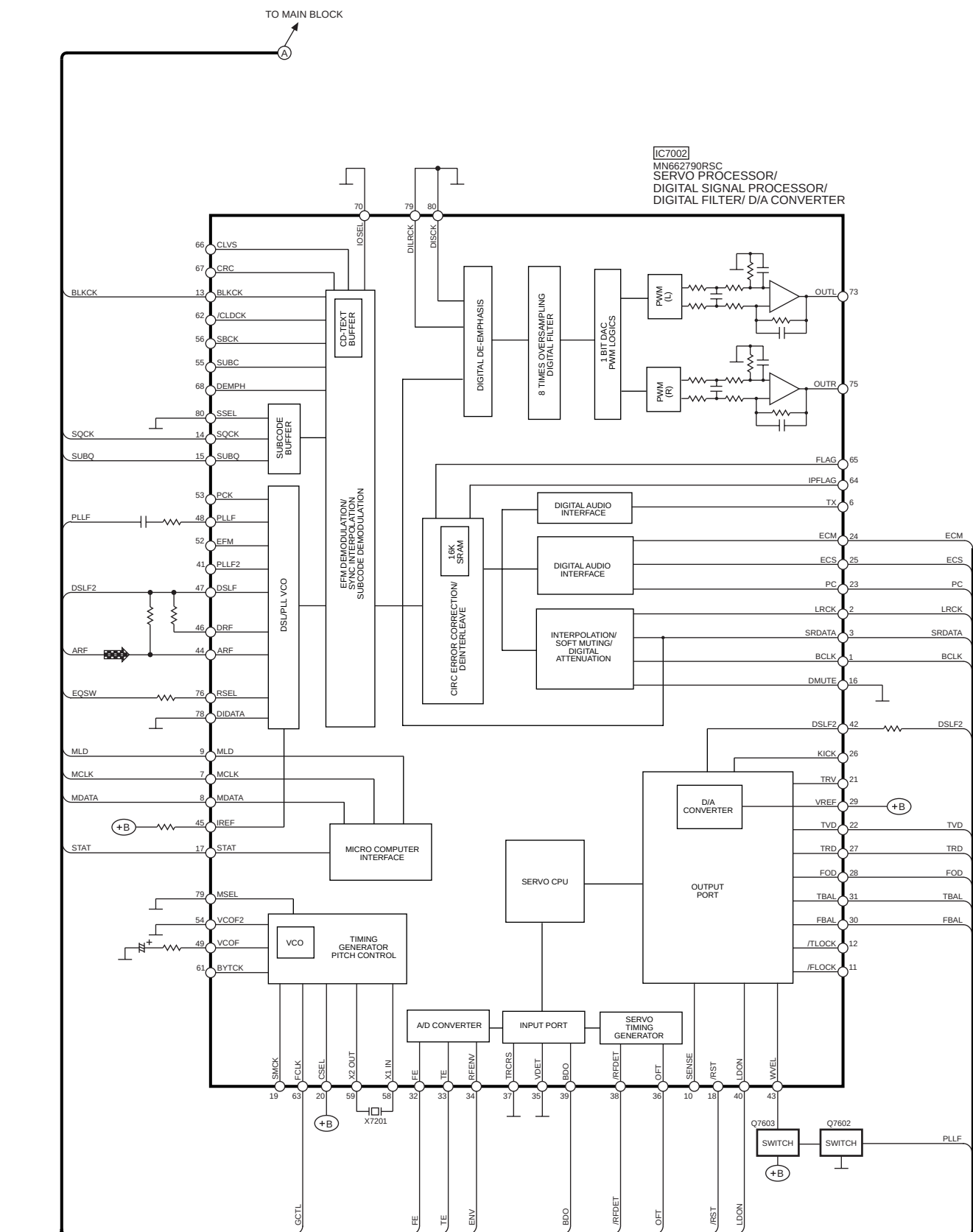


### 14.3.2. Tuner Adjustment Point

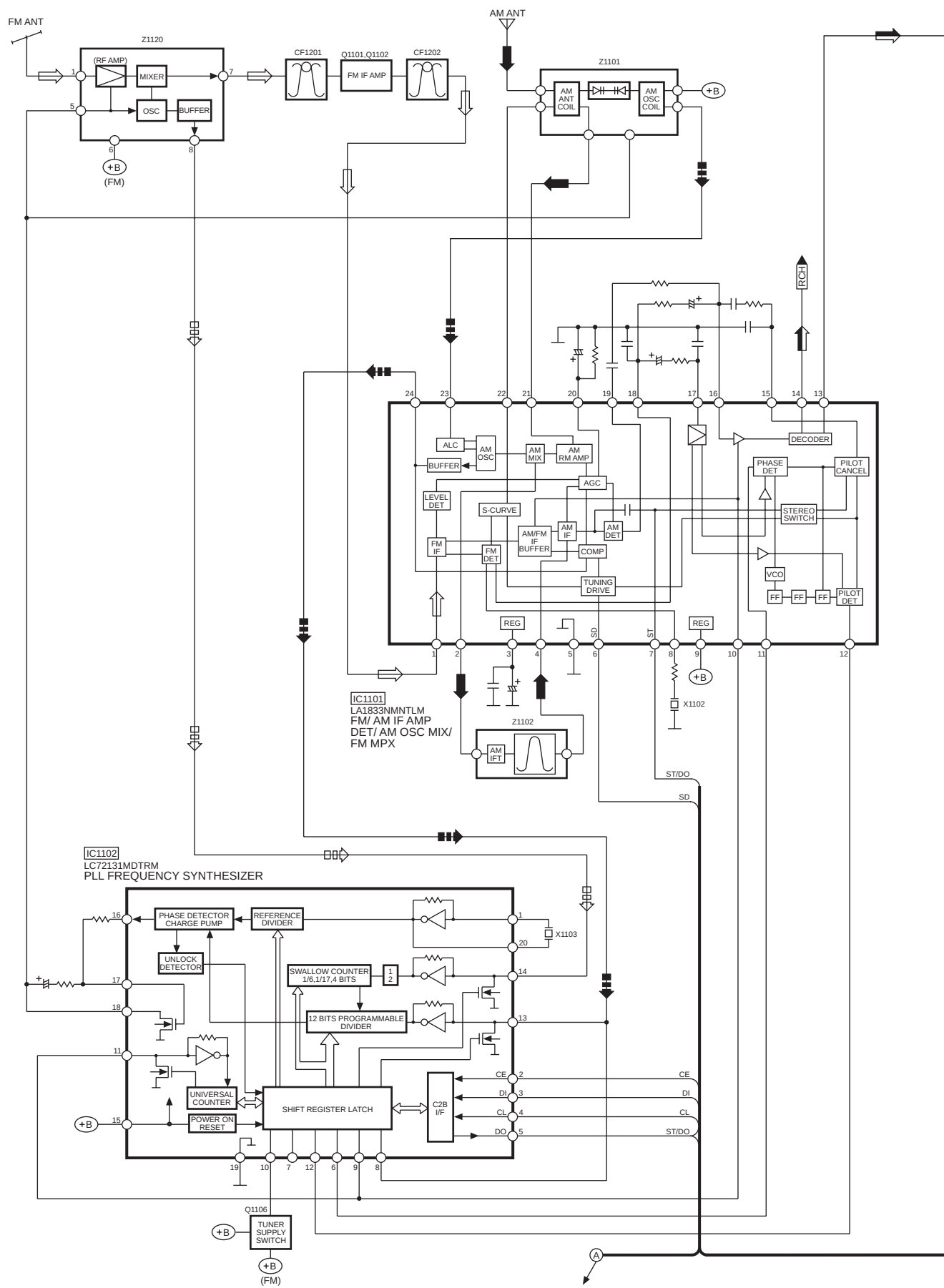


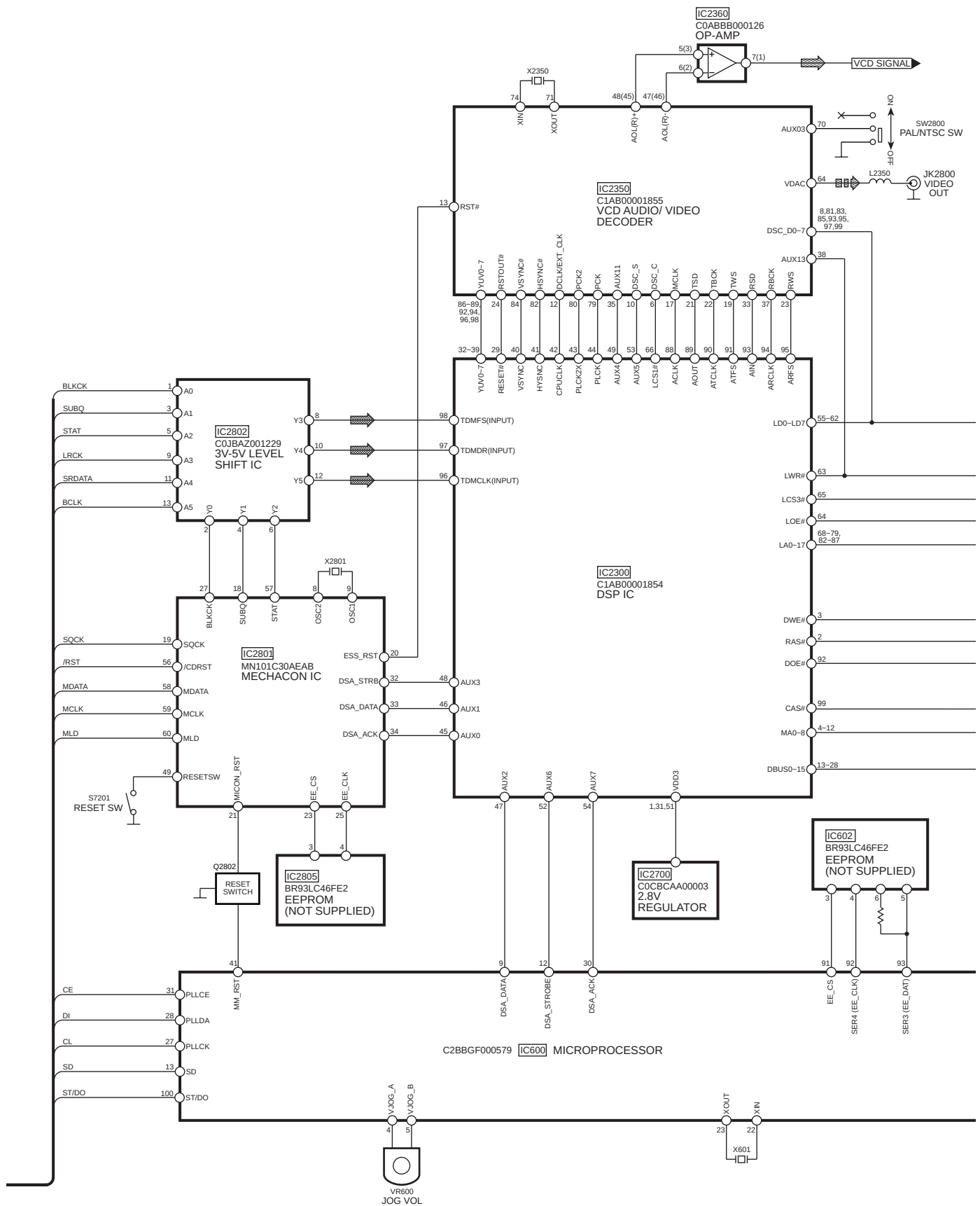
# 15 Block Diagram

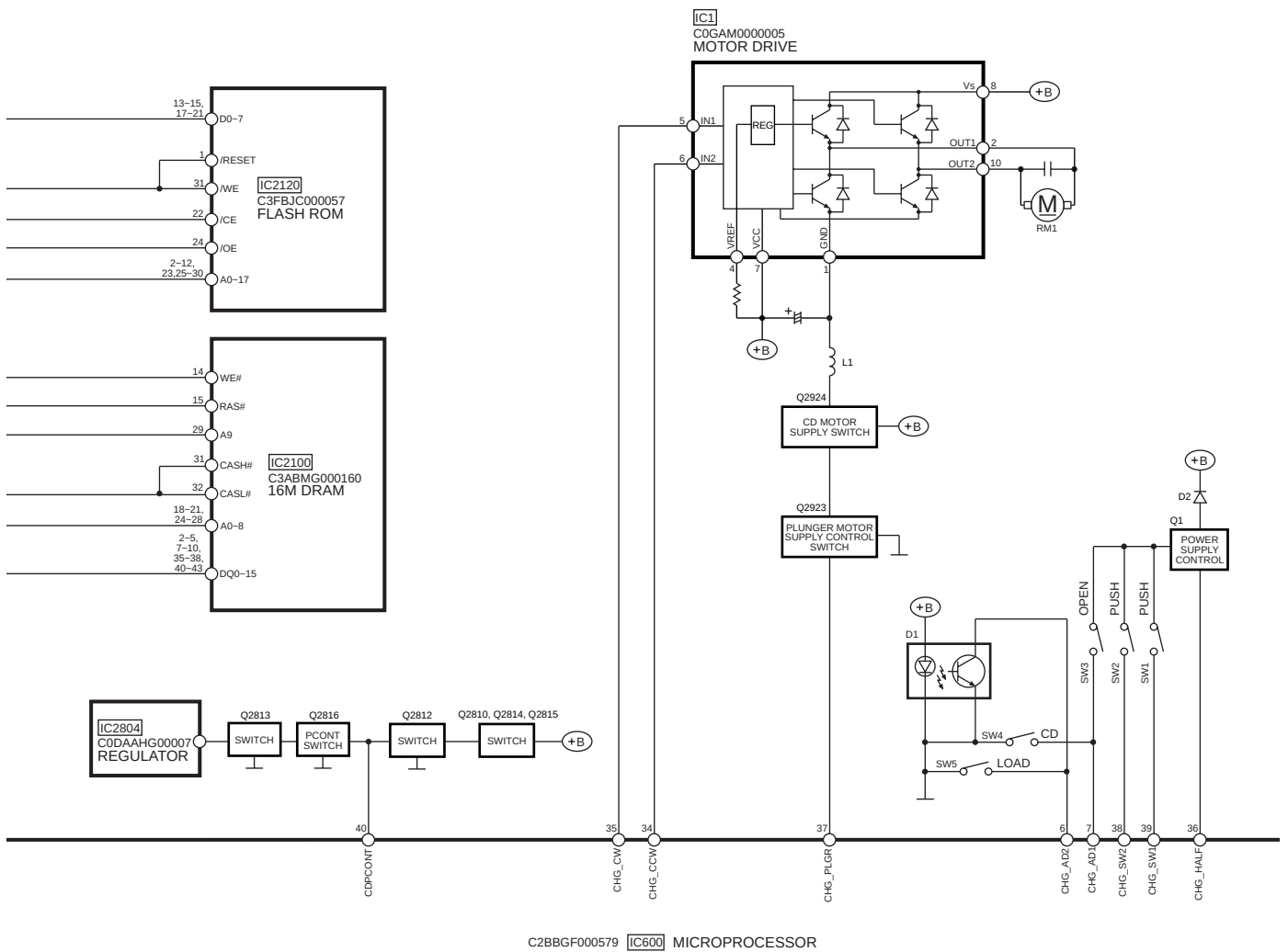


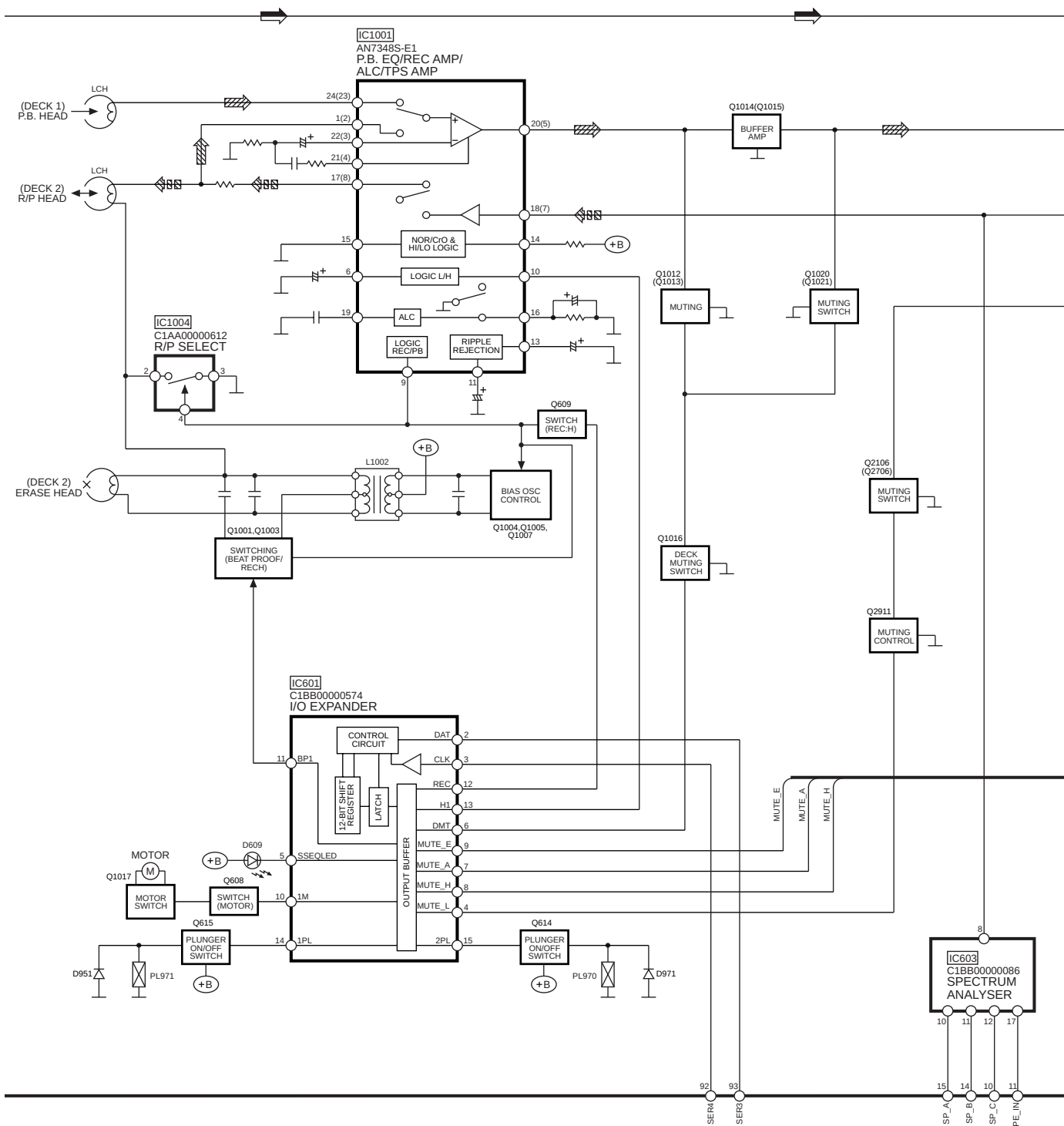
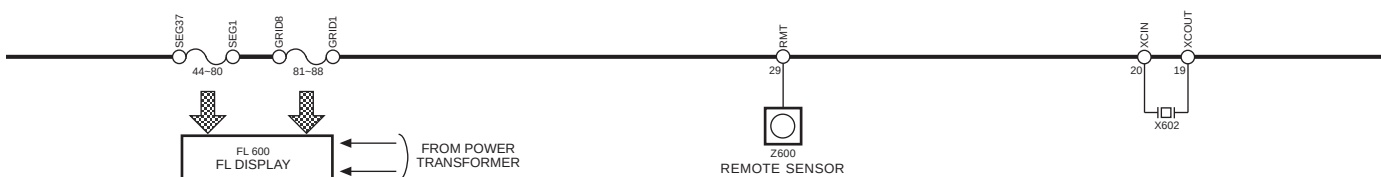


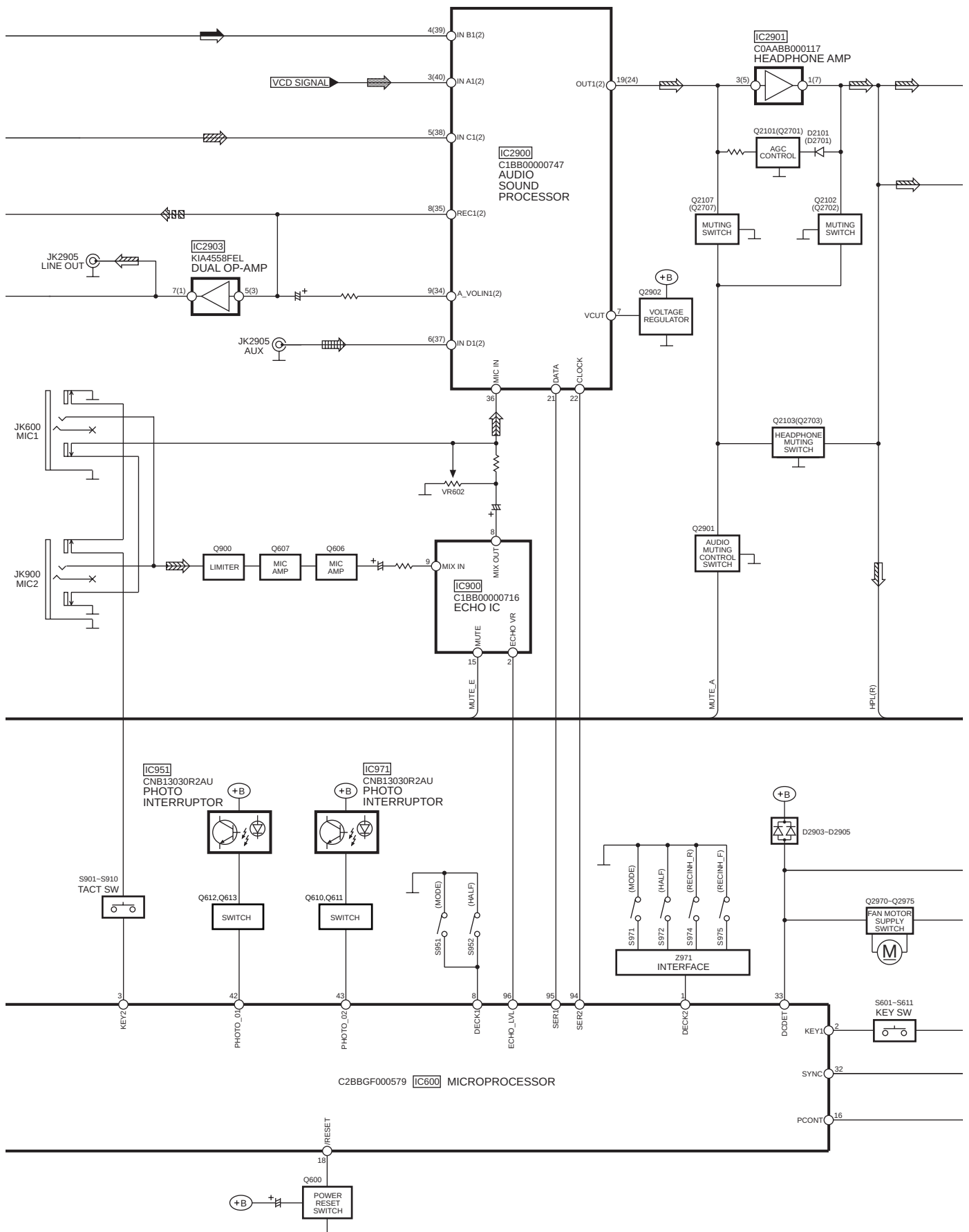


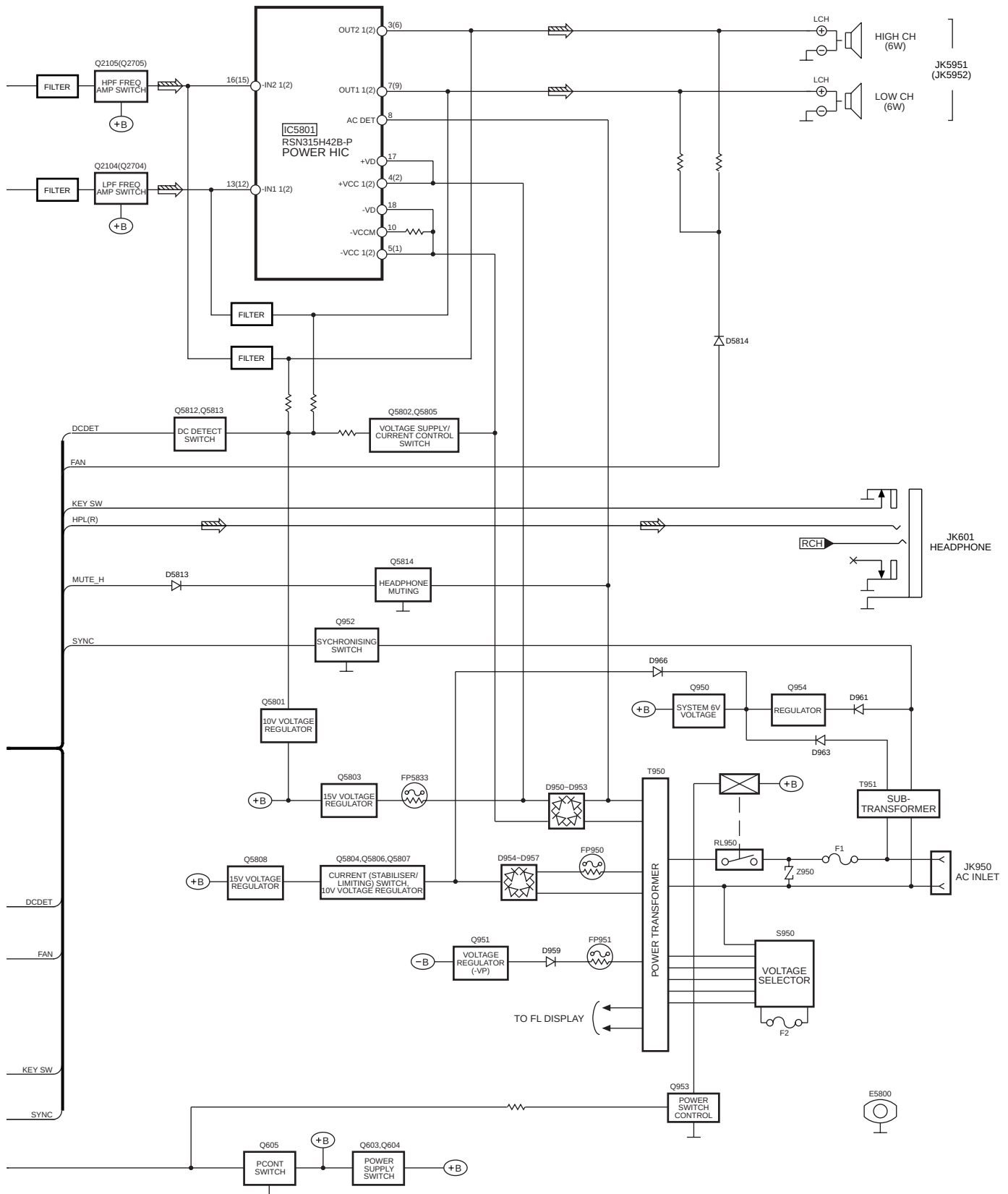






C2BBGF000579 **IC600** MICROPROCESSOR





## SIGNAL LINES

|  |                      |  |                      |  |                                    |  |                        |
|--|----------------------|--|----------------------|--|------------------------------------|--|------------------------|
|  | : MAIN SIGNAL LINE   |  | : AM SIGNAL LINE     |  | : CD-DA (AUDIO /VIDEO) SIGNAL LINE |  | : PLAYBACK SIGNAL LINE |
|  | : FM SIGNAL LINE     |  | : AM OSC SIGNAL LINE |  | : VCD AUDIO SIGNAL LINE            |  | : RECORD SIGNAL LINE   |
|  | : FM OSC SIGNAL LINE |  | : FM /AM SIGNAL LINE |  | : VCD VIDEO SIGNAL LINE            |  | : MIC SIGNAL LINE      |
|  | : AUX SIGNAL LINE    |  |                      |  |                                    |  |                        |

( ) Indicates the Pin No. of Right Channel.

NOTE : Signal Lines are applicable to the Left Channel only.

## 16 Schematic Diagram

(All schematic diagrams may be modified at any time with the development of the new technology)

Note:

|               |                      |
|---------------|----------------------|
| <b>SW1</b>    | : Push switch        |
| <b>SW2</b>    | : Push switch        |
| <b>SW3</b>    | : Open switch        |
| <b>SW4</b>    | : CD switch          |
| <b>SW5</b>    | : Load switch        |
| <b>SW2800</b> | : PAL/NTSC switch    |
| <b>S601</b>   | : Power switch       |
| <b>S602</b>   | : Deck 1/2 switch    |
| <b>S603</b>   | : Rec switch         |
| <b>S604</b>   | : Open/ Close switch |
| <b>S605</b>   | : CD 1 switch        |
| <b>S606</b>   | : CD 2 switch        |
| <b>S607</b>   | : CD 3 switch        |
| <b>S608</b>   | : CD 4 switch        |
| <b>S609</b>   | : CD 5 switch        |
| <b>S610</b>   | : SSEQ switch        |
| <b>S611</b>   | : SEQ switch         |
| <b>S901</b>   | : REW switch         |
| <b>S902</b>   | : Tuner switch       |
| <b>S903</b>   | : CD Play switch     |
| <b>S904</b>   | : FF switch          |
| <b>S905</b>   | : Stop switch        |
| <b>S906</b>   | : Deck 2 Open switch |
| <b>S907</b>   | : Tape switch        |
| <b>S908</b>   | : AUX switch         |
| <b>S909</b>   | : Deck 1 Open switch |
| <b>S910</b>   | : Display switch     |
| <b>S951</b>   | : Mode switch        |
| <b>S952</b>   | : Half switch        |
| <b>S971</b>   | : Mode switch        |
| <b>S972</b>   | : Half switch        |
| <b>S974</b>   | : Recinh_R switch    |
| <b>S975</b>   | : Recinh_F switch    |
| <b>S7201</b>  | : Rest switch        |
| <b>VR600</b>  | : VR Volume Jog      |
| <b>VR602</b>  | : MIC Volume Jog     |

- The voltage value and waveforms are the reference voltage of this unit measured by DC electronic voltmeter (high impedance) and oscilloscope on the basis of chassis. Accordingly, there may arise some error in voltage values and waveforms depending upon the internal impedance of the tester or the measuring unit.

No mark : Playback << >> : Rec < > : FM  
(( )) : CD

### • Importance safety notice :

Components identified by  mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

### Caution !

IC, LSI and VLSI are sensitive to static electricity.

Secondary trouble can be prevented by taking care during repair.

- Cover the parts boxes made of plastics with aluminium foil.
- Put a conductive mat on the work table.
- Ground the soldering iron.
- Do not touch the pins of IC, LSI or VLSI with fingers directly.

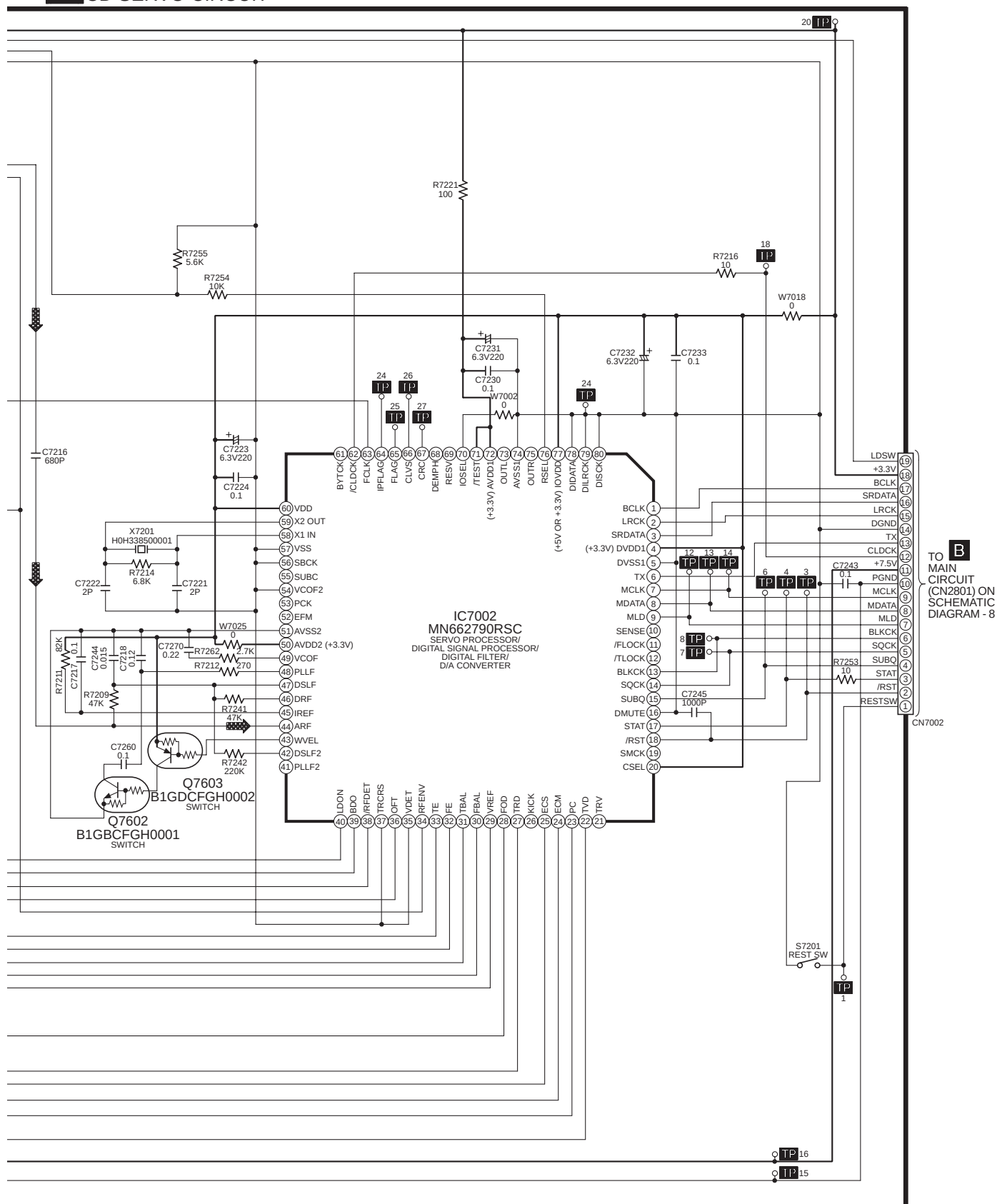




## SCHEMATIC DIAGRAM - 2

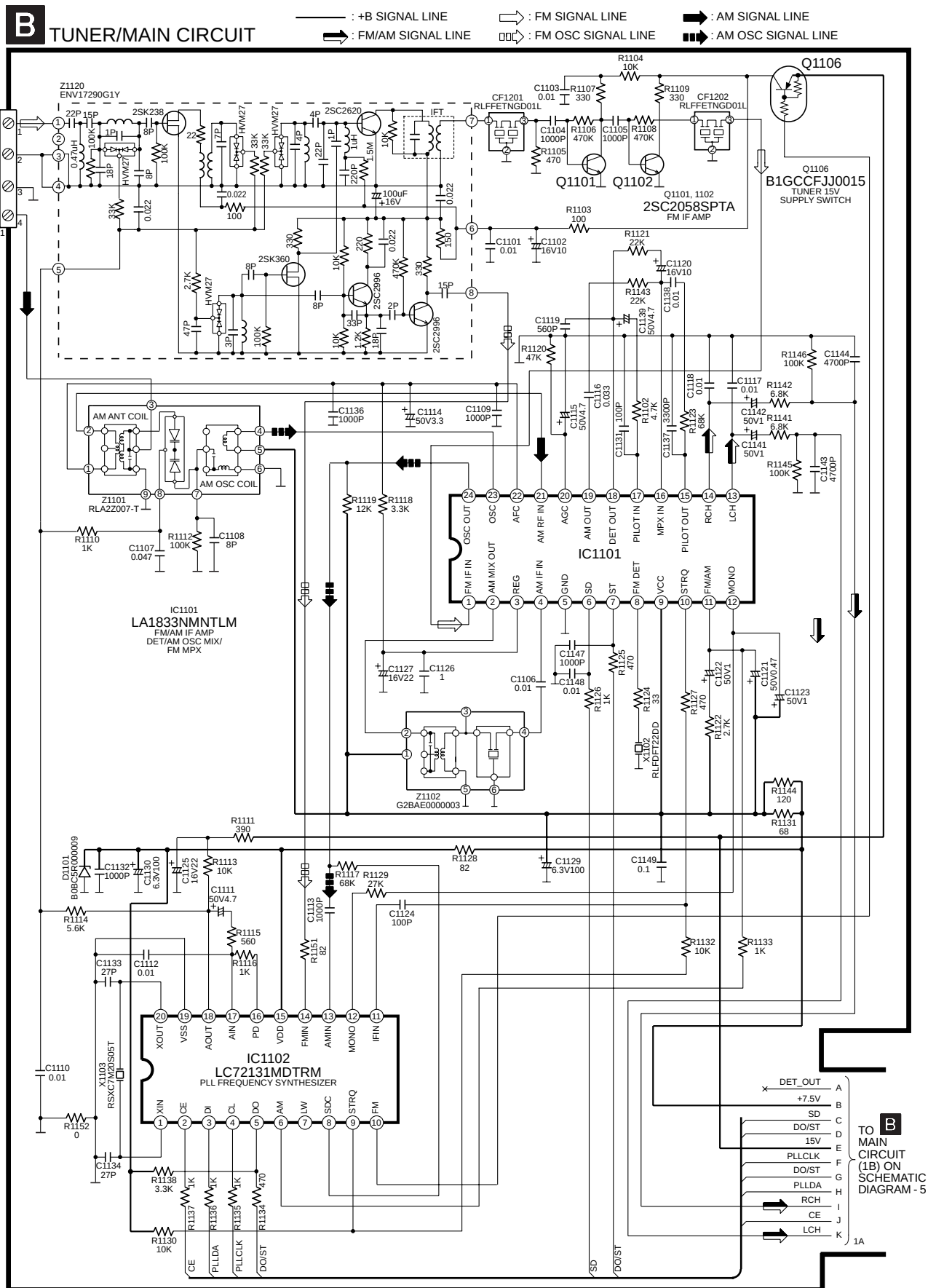
**A** CD SERVO CIRCUIT

 : CD-DA SIGNAL LINE  
 : +B SIGNAL LINE



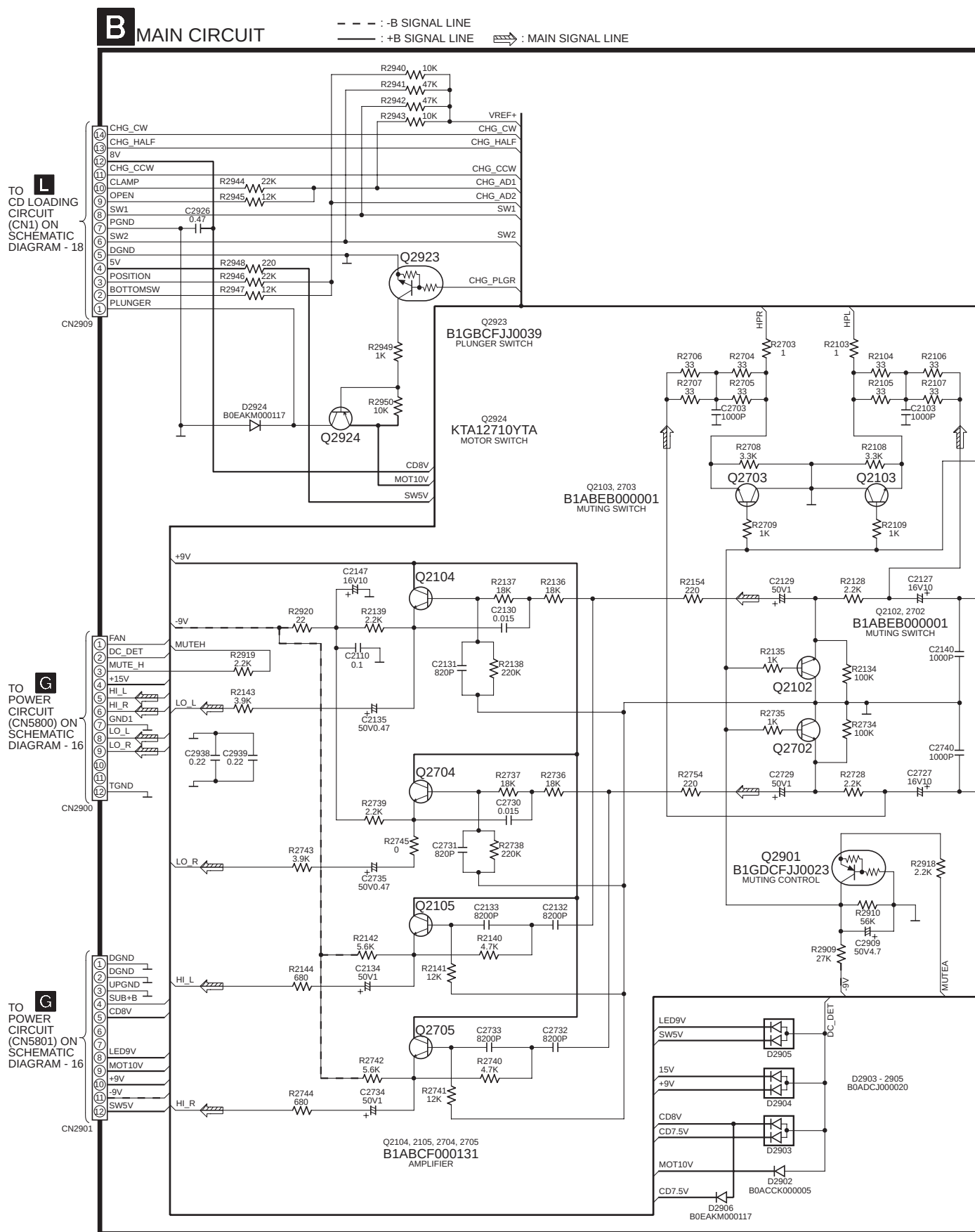
## 16.2. (B) Tuner/Main Circuit

SCHEMATIC DIAGRAM - 3

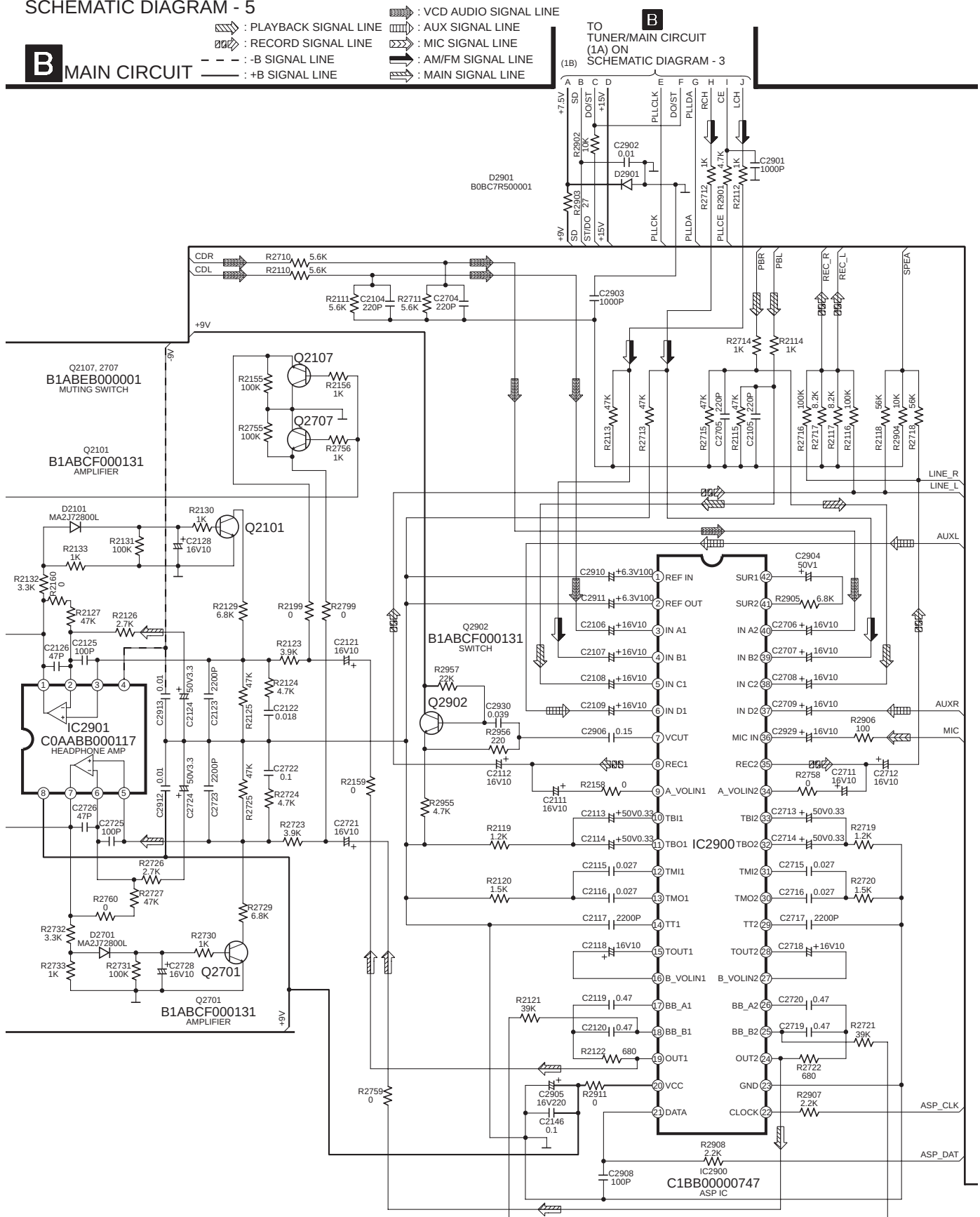


## 16.3. (B) Main Circuit

SCHEMATIC DIAGRAM - 4



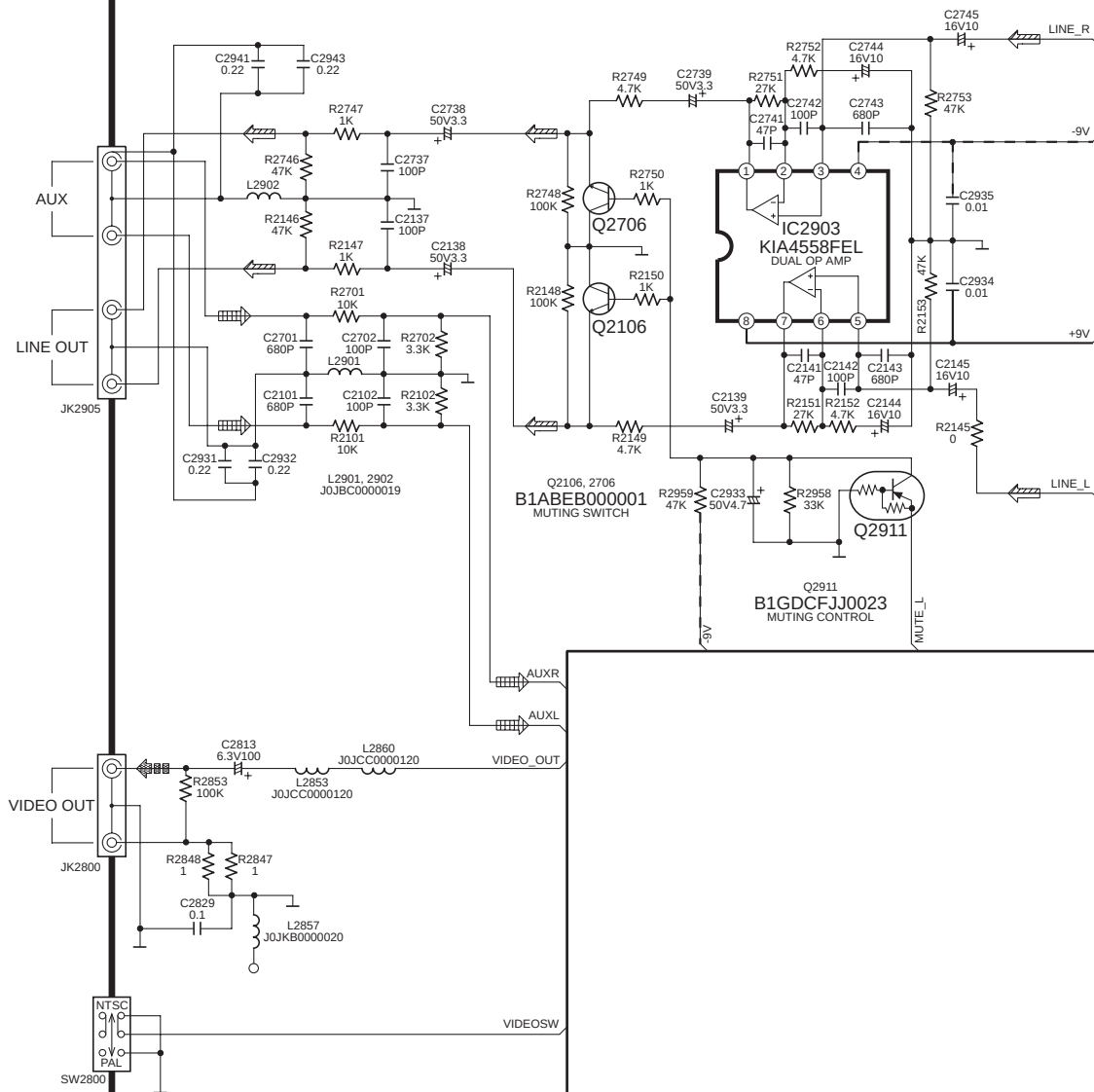
SCHEMATIC DIAGRAM - 5



## SCHEMATIC DIAGRAM - 6

**B** MAIN CIRCUIT

- - - : -B SIGNAL LINE  
 ——— : +B SIGNAL LINE  
 : AUX SIGNAL LINE  
 : VCD VIDEO SIGNAL LINE  
 : MAIN SIGNAL LINE





## SCHEMATIC DIAGRAM - 8

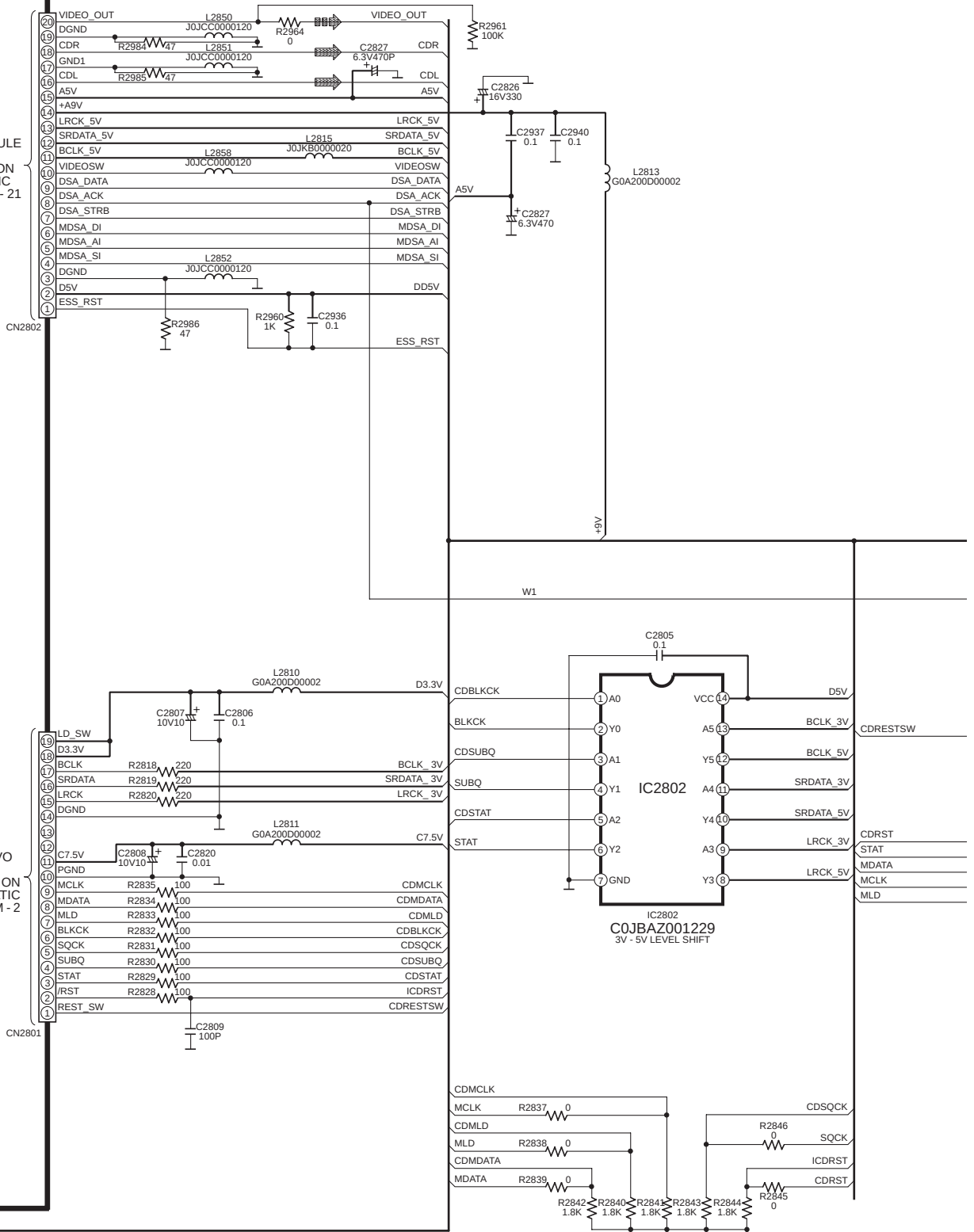
**B** MAIN CIRCUIT

— : +B SIGNAL LINE

: VCD AUDIO SIGNAL LINE

: VCD VIDEO SIGNAL LINE

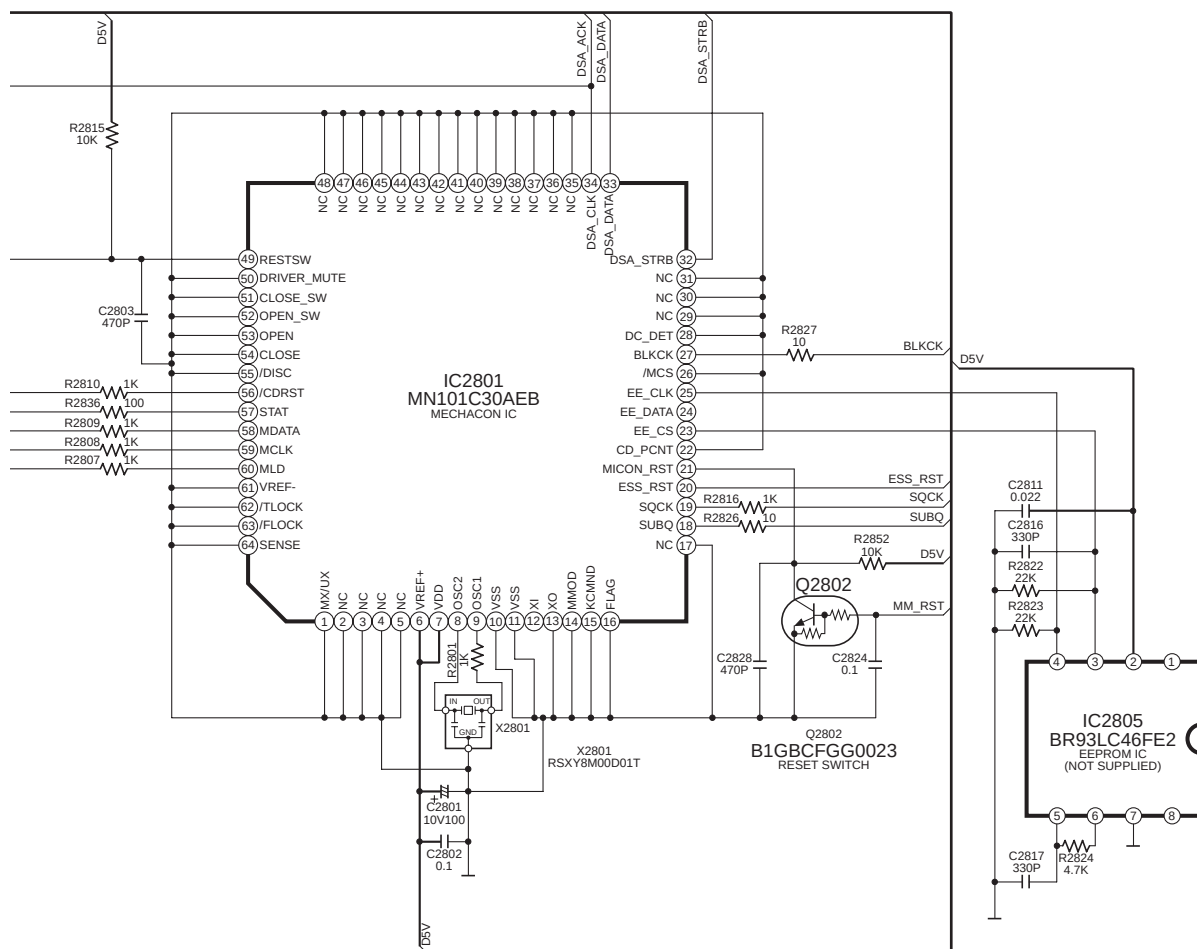
TO **M**  
VCD MODULE  
CIRCUIT (CN2000) ON  
SCHEMATIC  
DIAGRAM - 21



## SCHEMATIC DIAGRAM - 9

**B** MAIN CIRCUIT

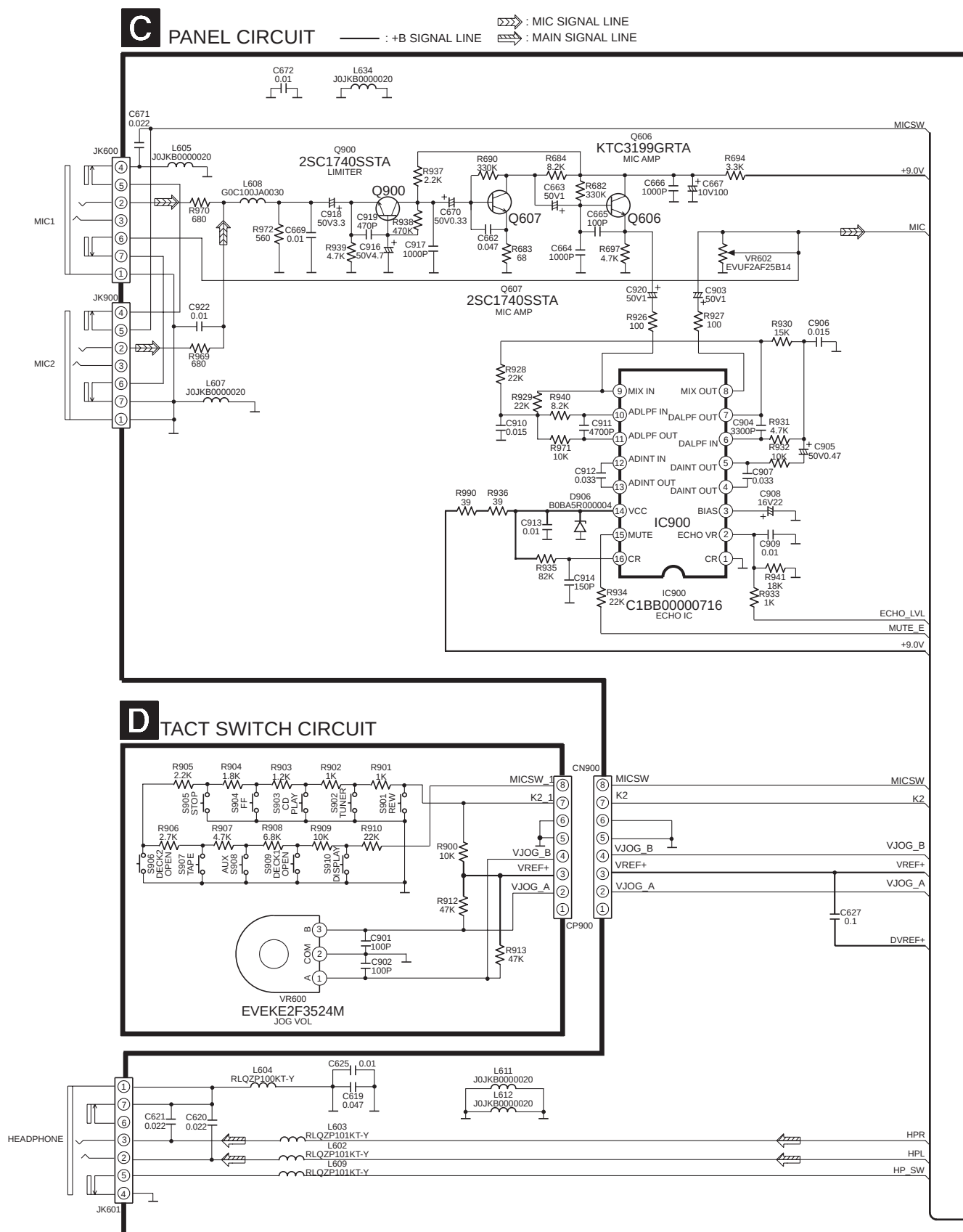
— : +B SIGNAL LINE





#### 16.4. (C) Panel Circuit & (D) Tact Switch Circuit

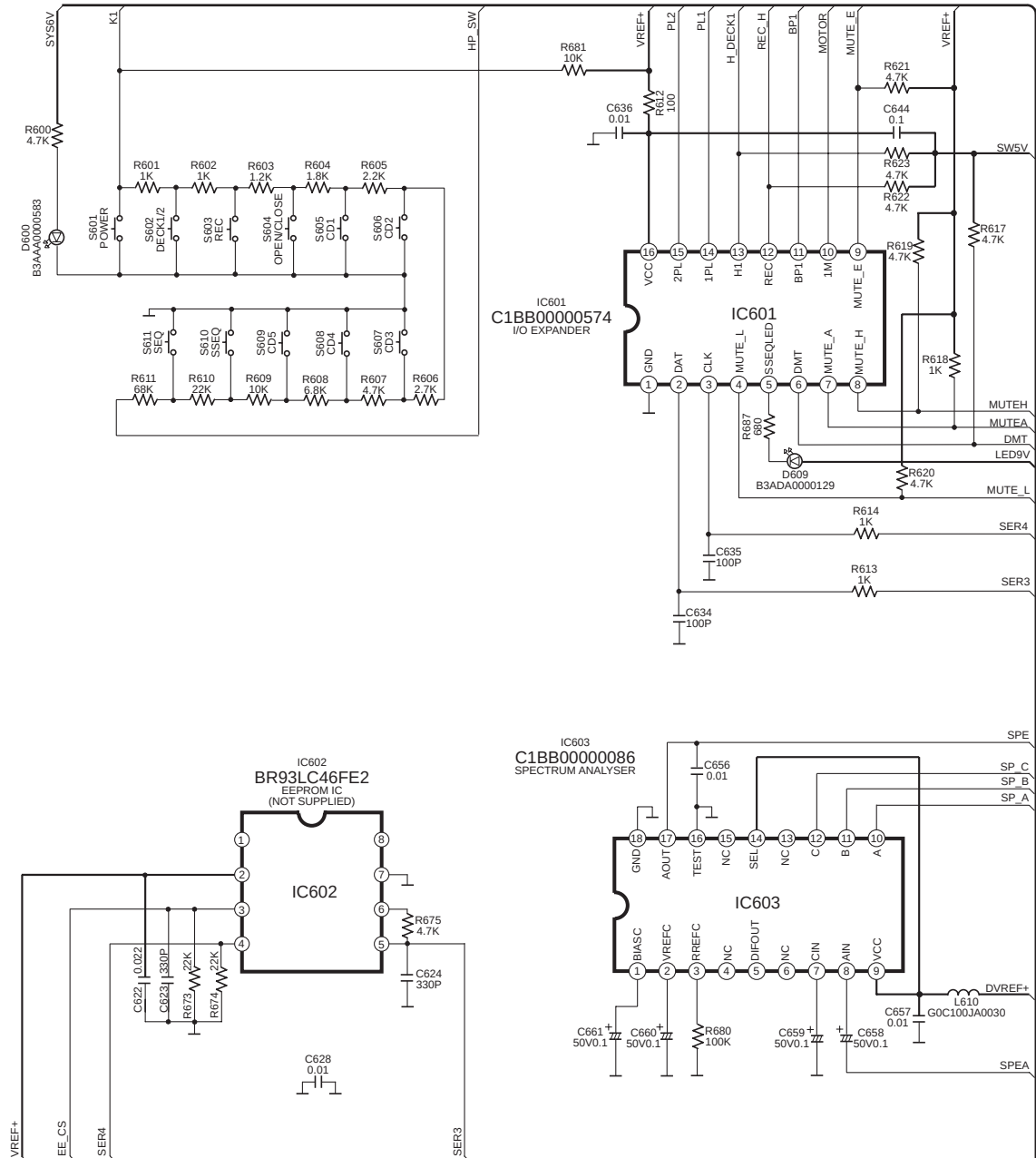
SCHEMATIC DIAGRAM - 10



## SCHEMATIC DIAGRAM - 11

## C PANEL CIRCUIT

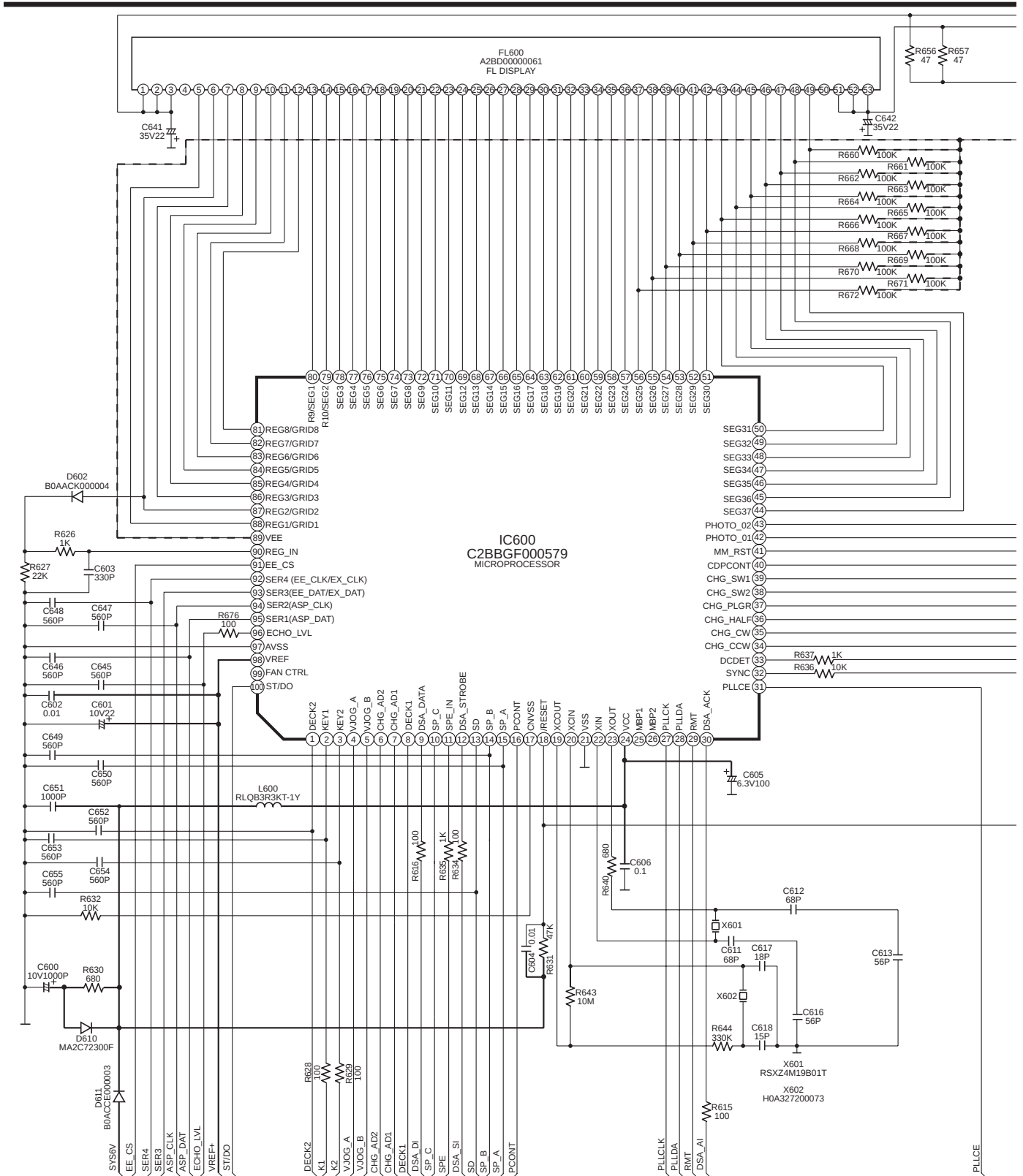
— : +B SIGNAL LINE



## SCHEMATIC DIAGRAM - 12

**C** PANEL CIRCUIT

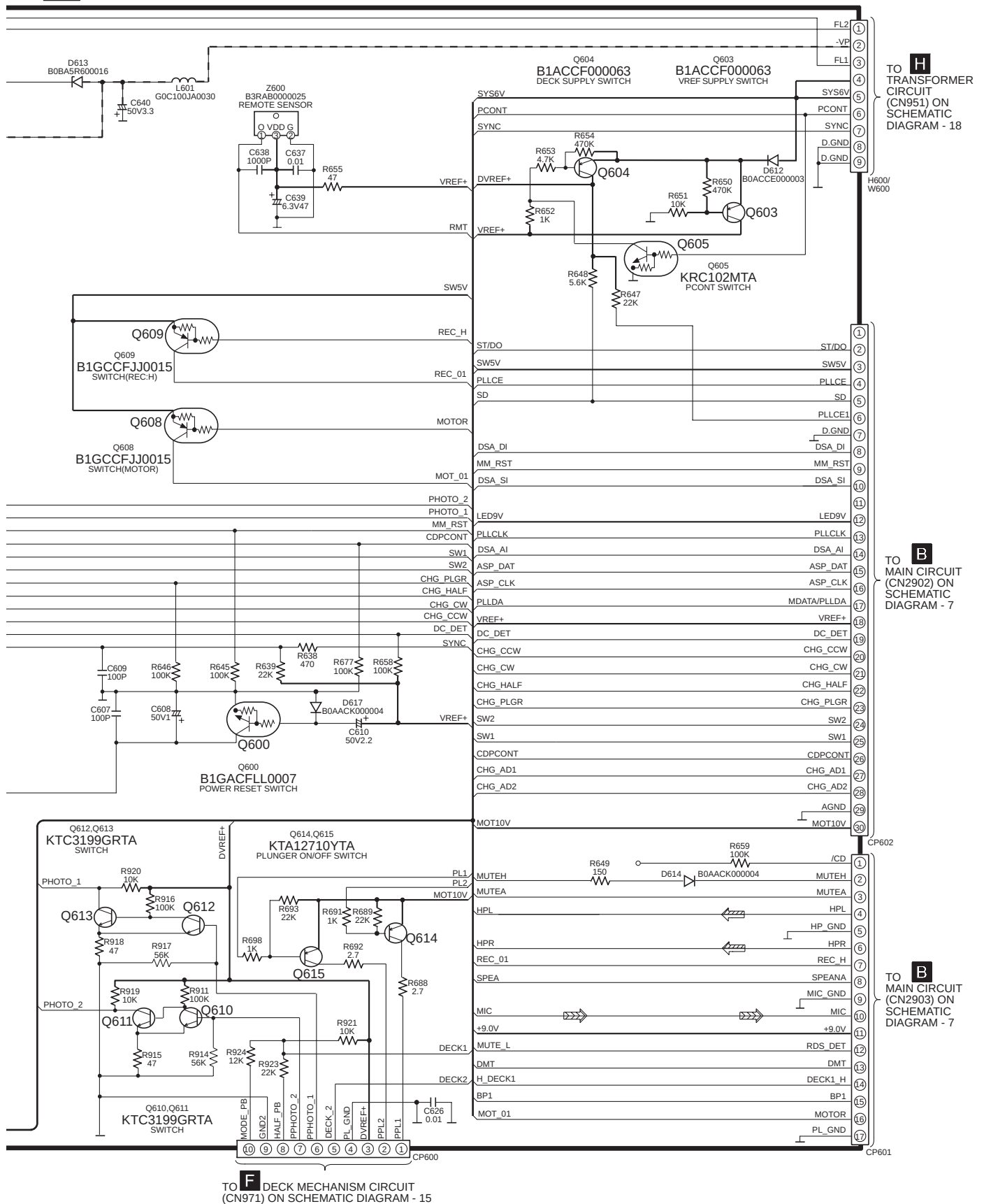
--- : -B SIGNAL LINE  
 — : +B SIGNAL LINE



## SCHEMATIC DIAGRAM - 13

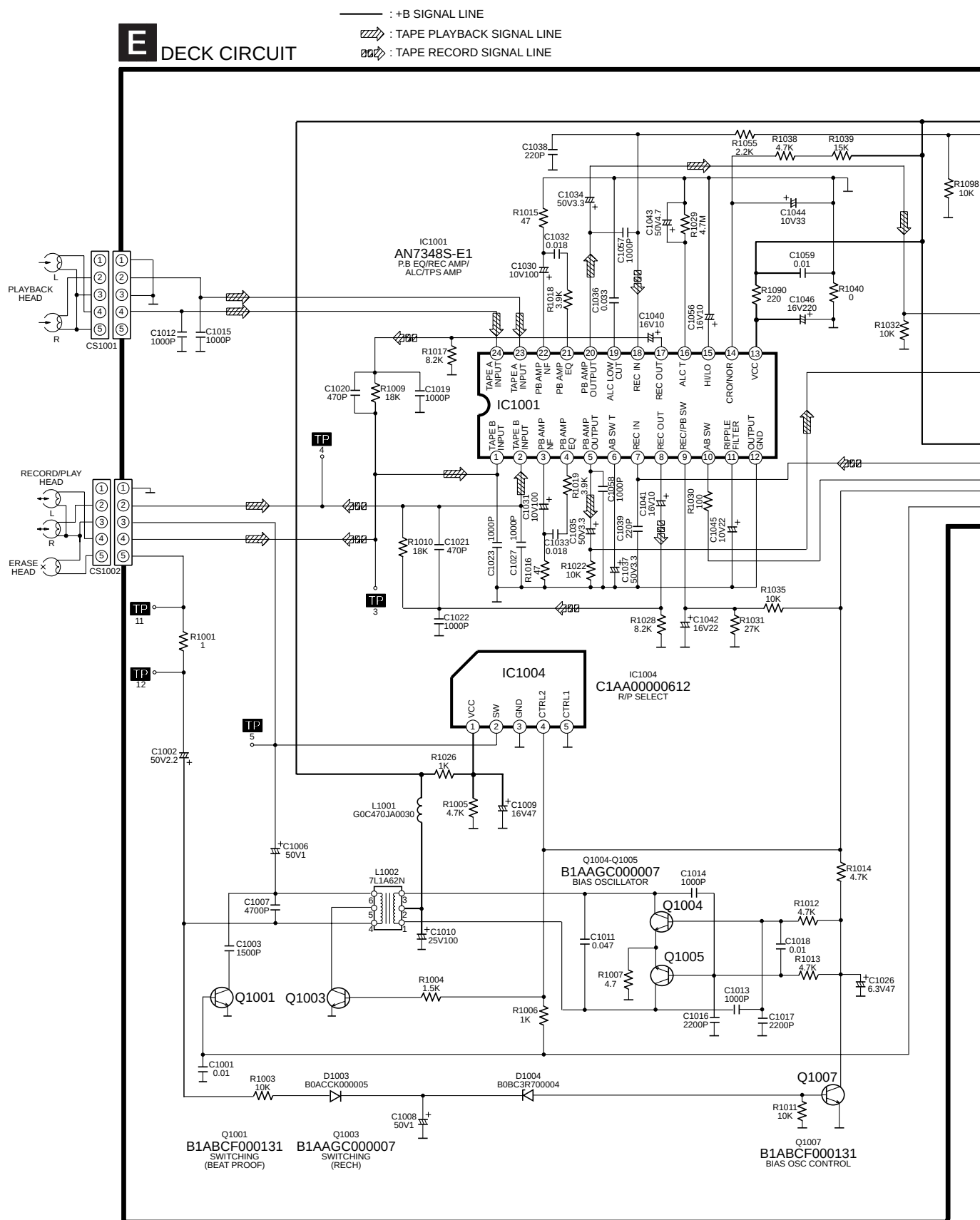
## C PANEL CIRCUIT

- - - : -B SIGNAL LINE       : MIC SIGNAL LINE  
 ——— : +B SIGNAL LINE       : MAIN SIGNAL LINE

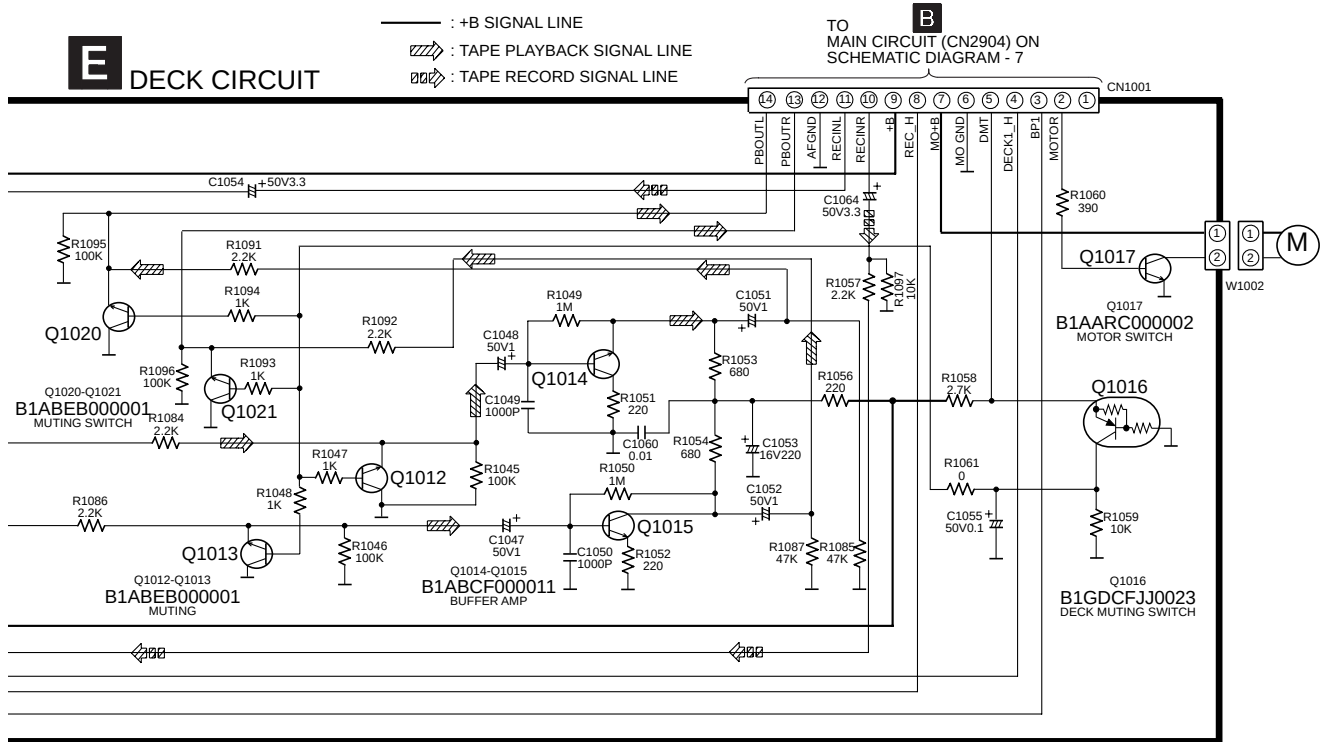
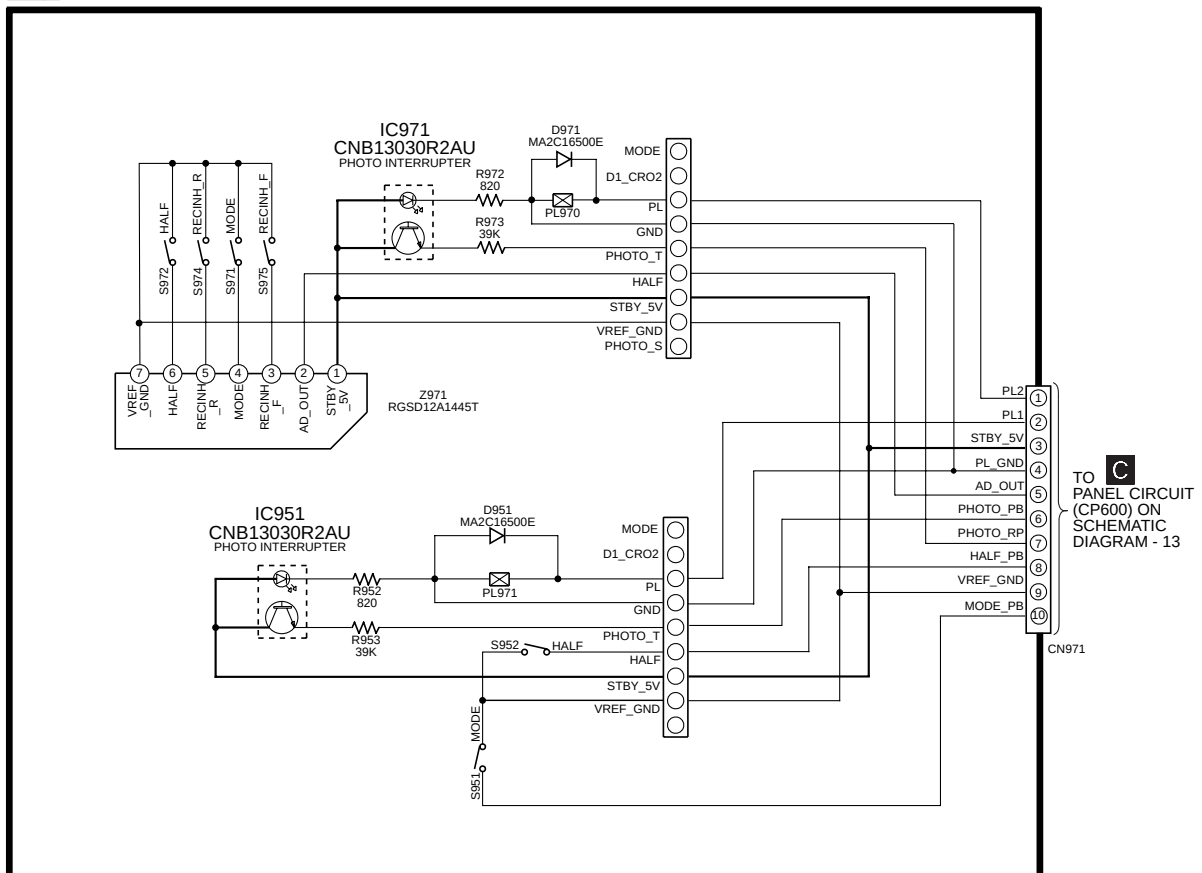


# 16.5. (E) Deck Circuit & (F) Deck Mechanism Circuit

SCHEMATIC DIAGRAM - 14

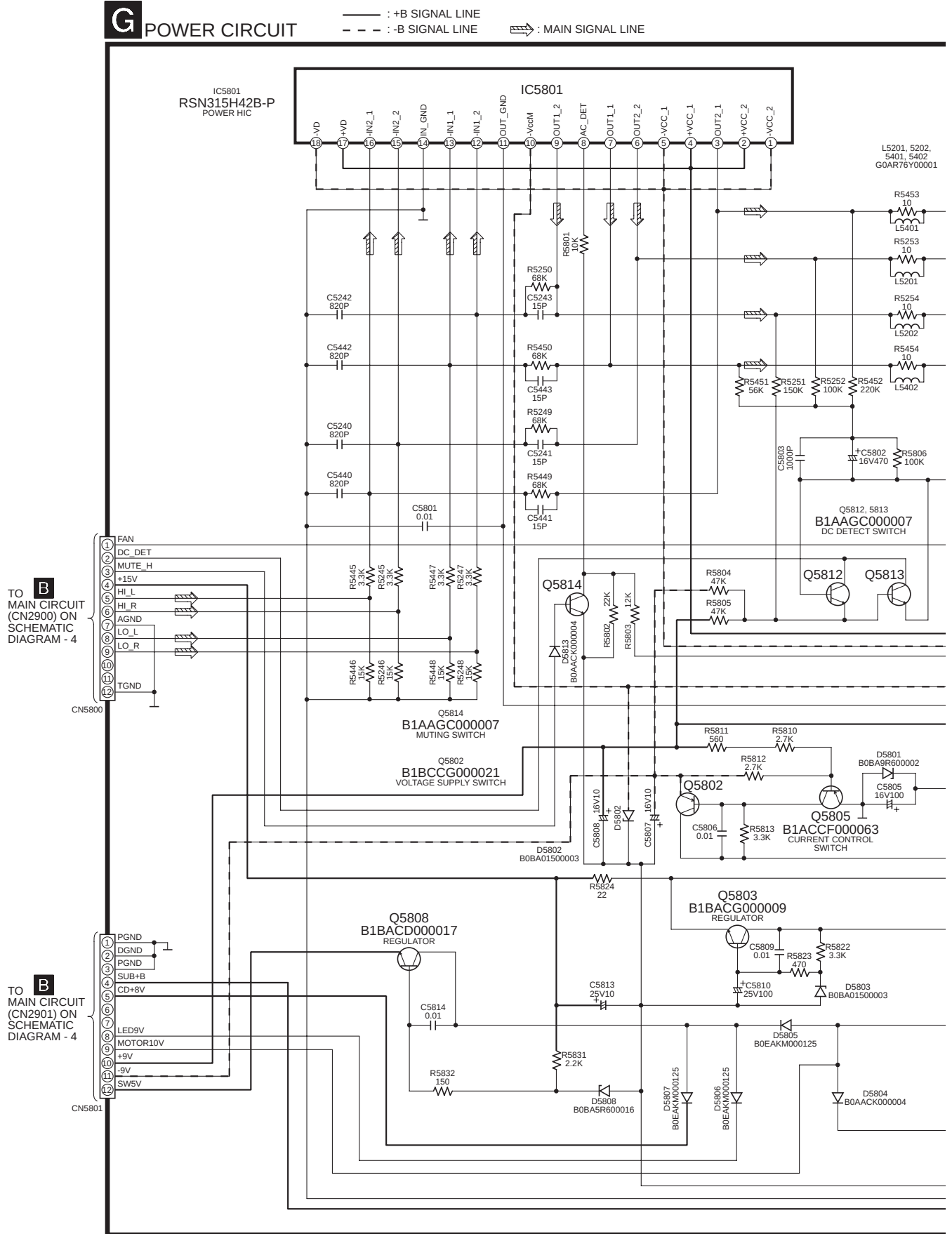


## SCHEMATIC DIAGRAM - 15

**F DECK MECHANISM CIRCUIT**

## 16.6. (G) Power Circuit

SCHEMATIC DIAGRAM - 16



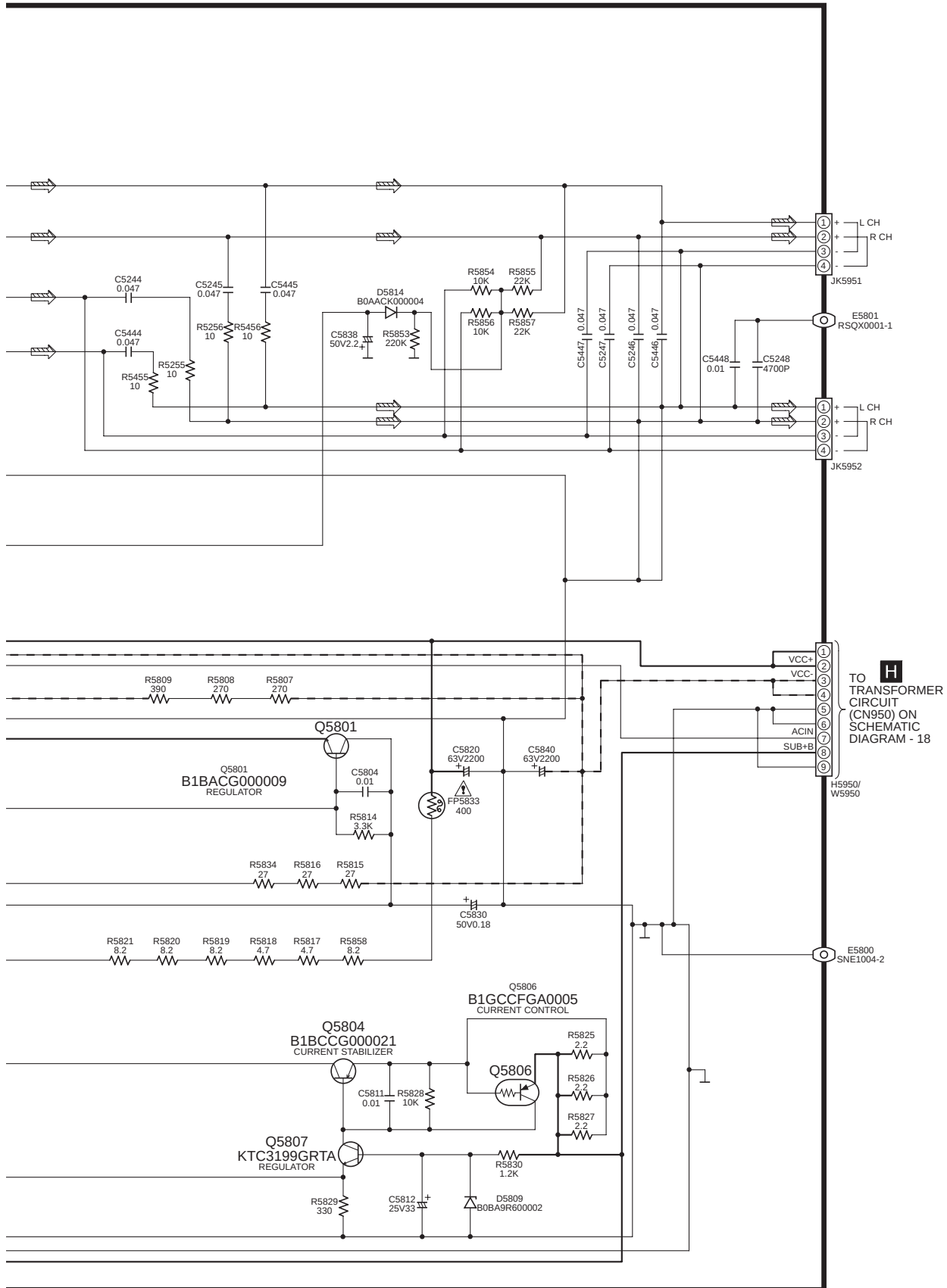
## SCHEMATIC DIAGRAM - 17

**G****POWER CIRCUIT**

— : +B SIGNAL LINE

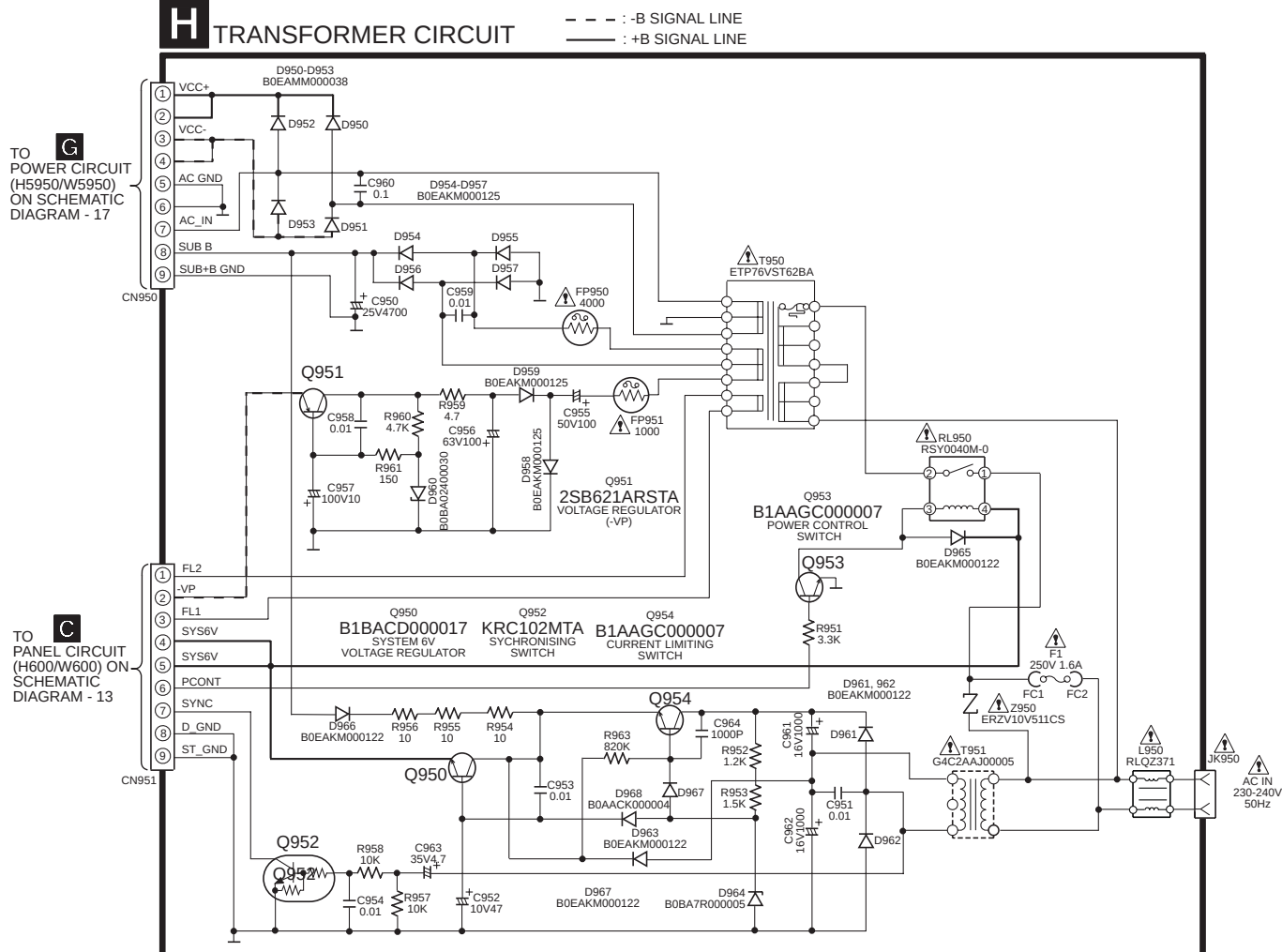
- - - : -B SIGNAL LINE

⇒ : MAIN SIGNAL LINE

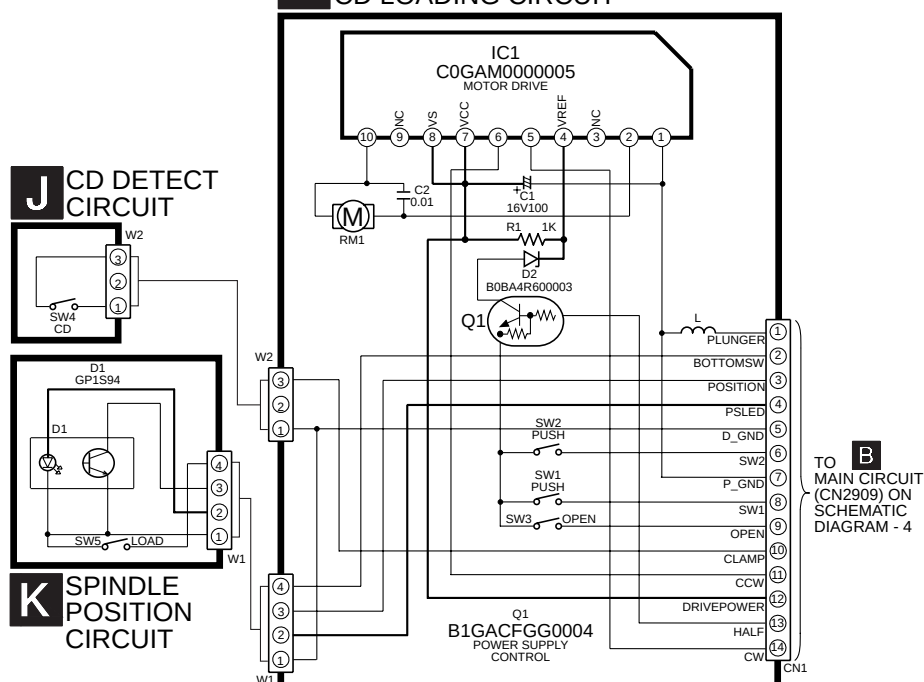




## H TRANSFORMER CIRCUIT

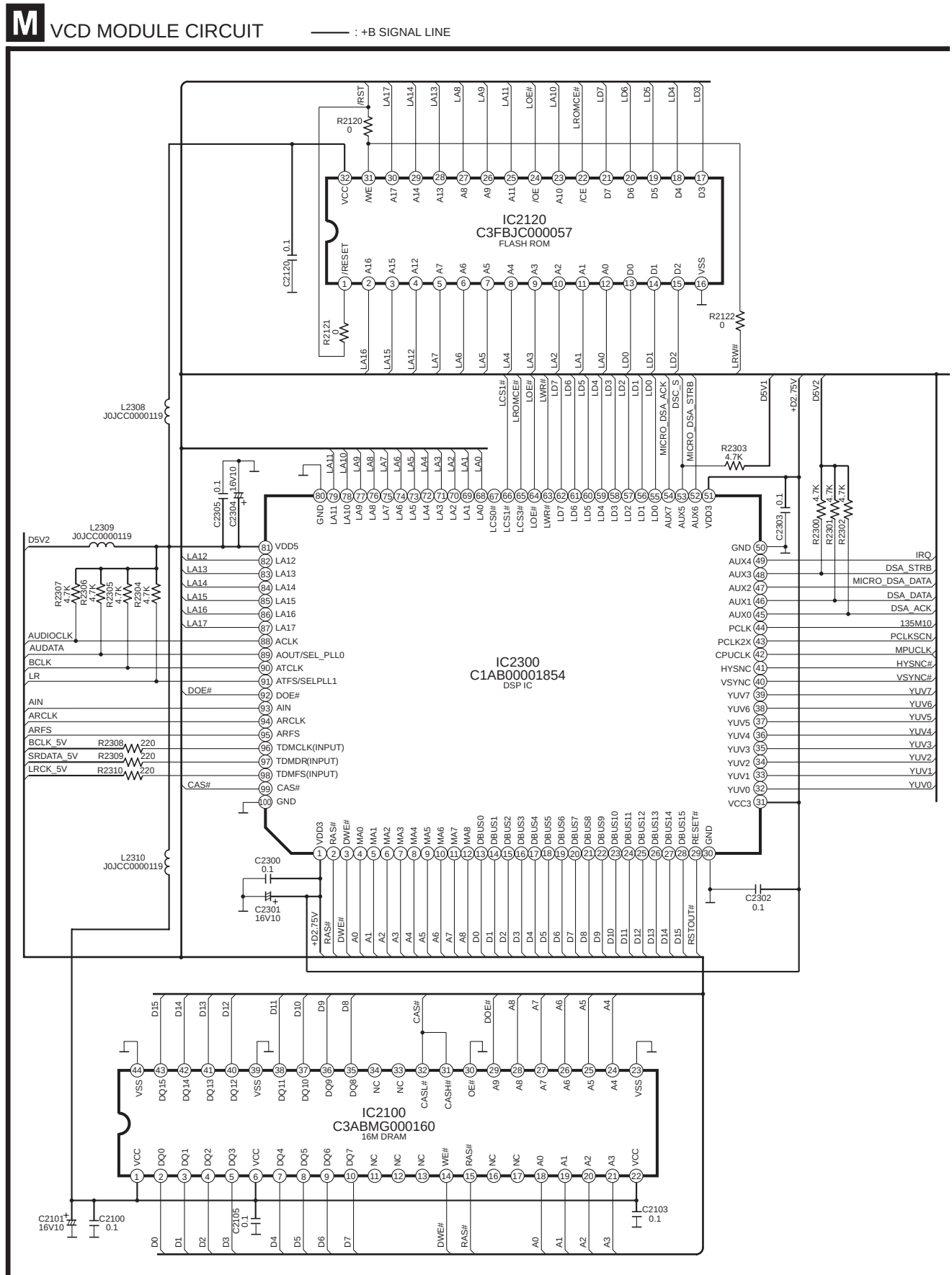


## CD LOADING CIRCUIT



## 16.8. (M) VCD Module Circuit

SCHEMATIC DIAGRAM - 19



SCHEMATIC DIAGRAM - 20

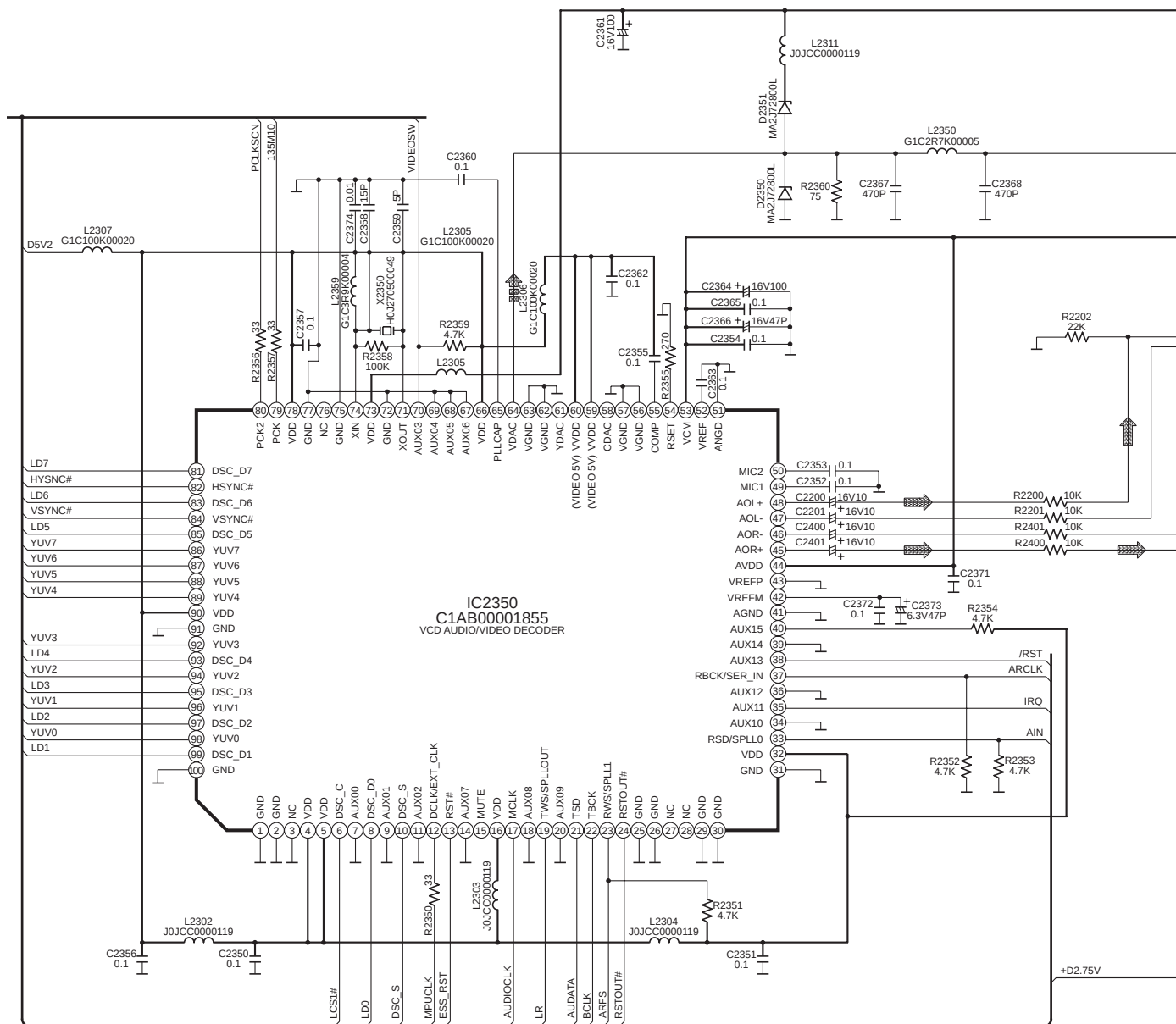


## VCD MODULE CIRCUIT

—— : +B SIGNAL LINE

 : VCD AUDIO SIGNAL LINE

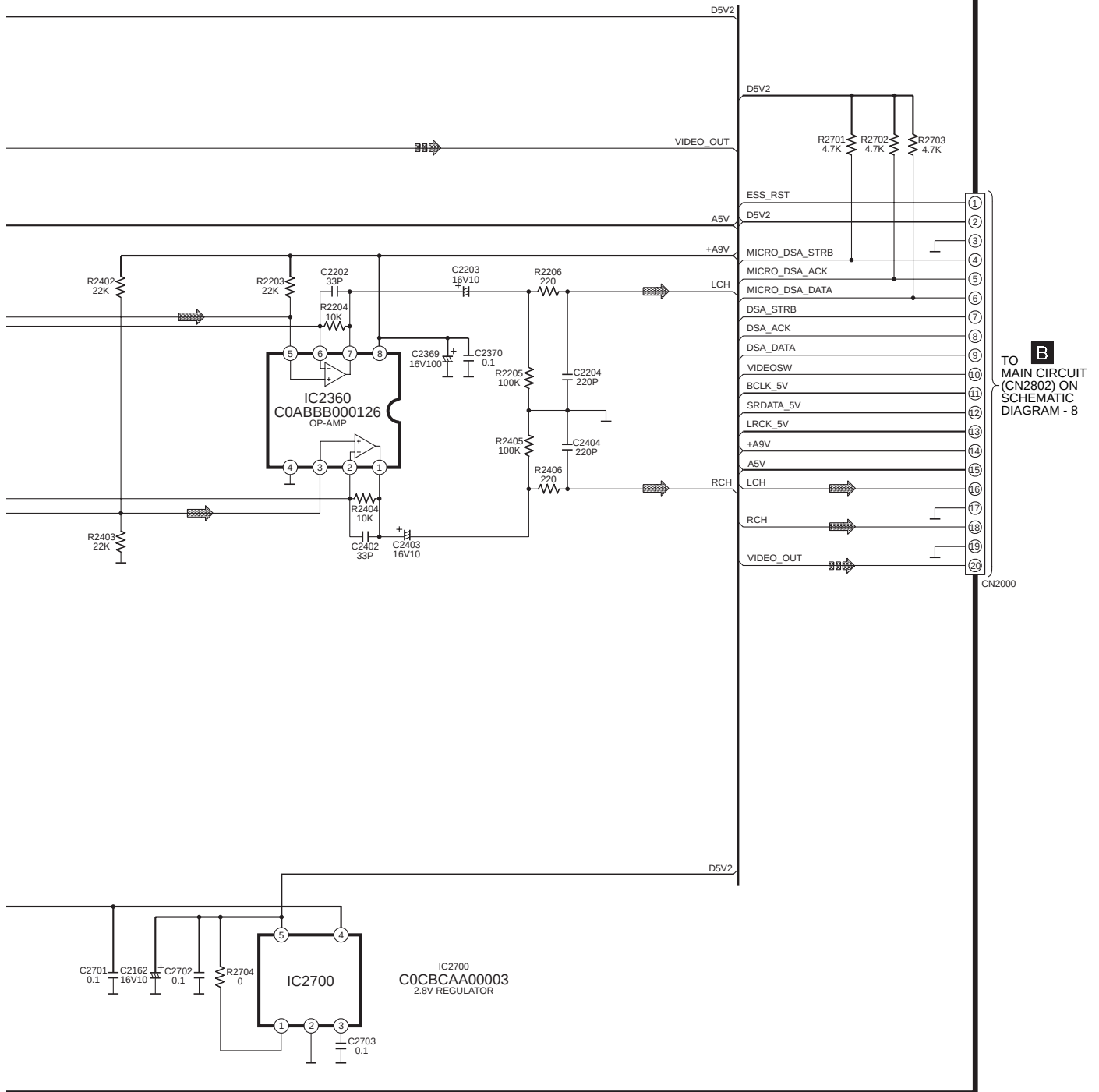
 : VCD VIDEO SIGNAL LINE



## SCHEMATIC DIAGRAM - 21

**M** VCD MODULE CIRCUIT

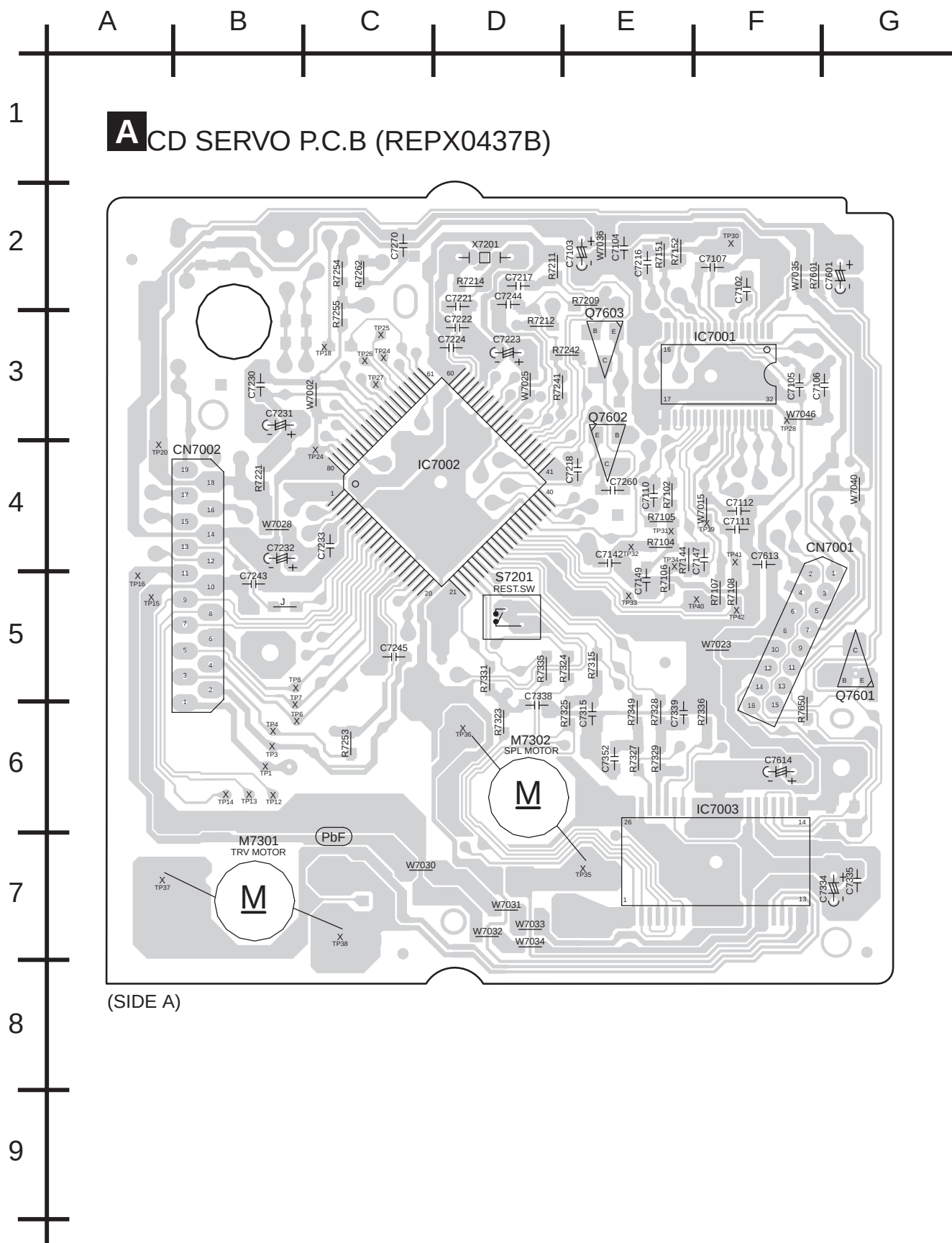
— : +B SIGNAL LINE  
 : VCD AUDIO SIGNAL LINE  
 : VCD VIDEO SIGNAL LINE

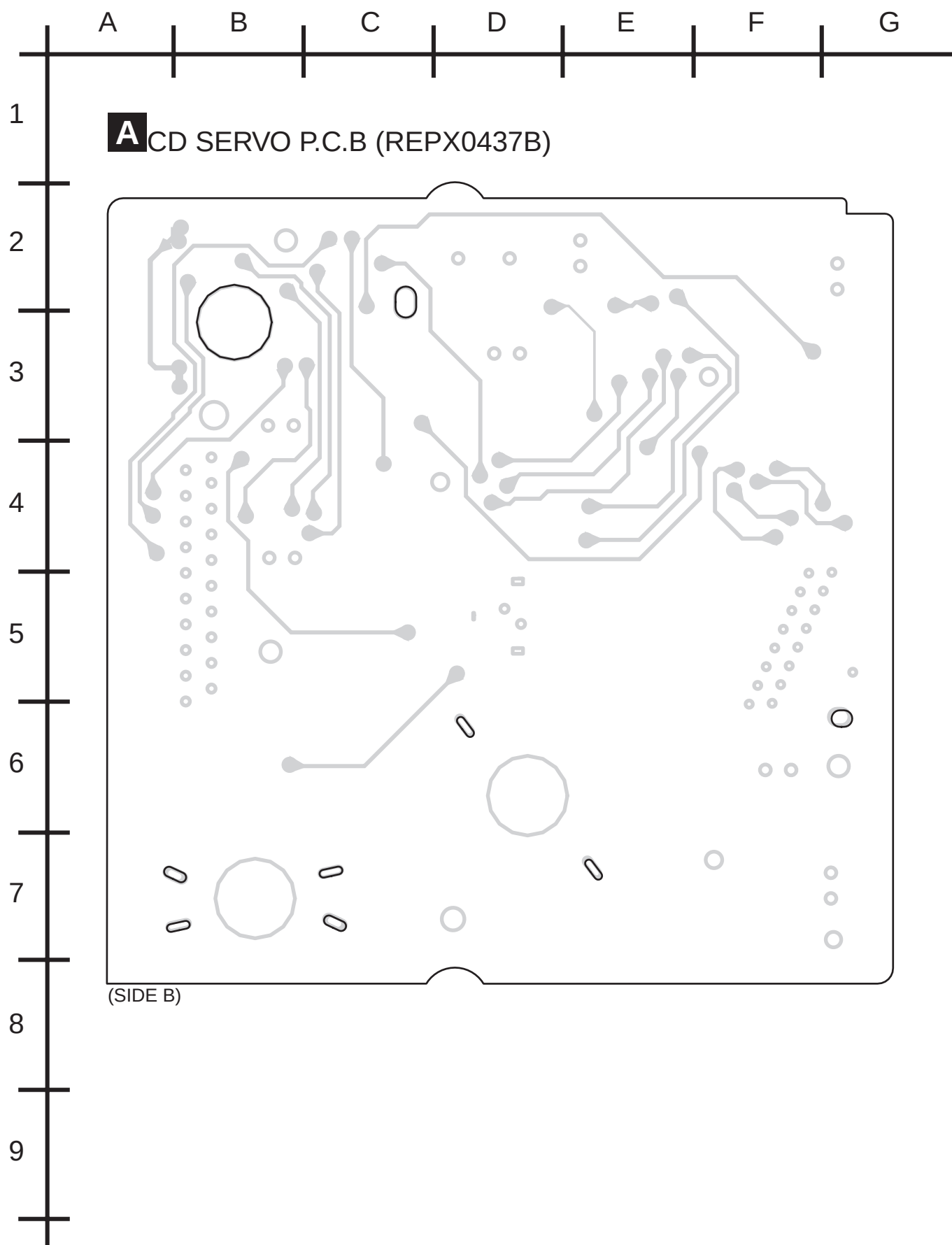


## 17 Printed Circuit Board

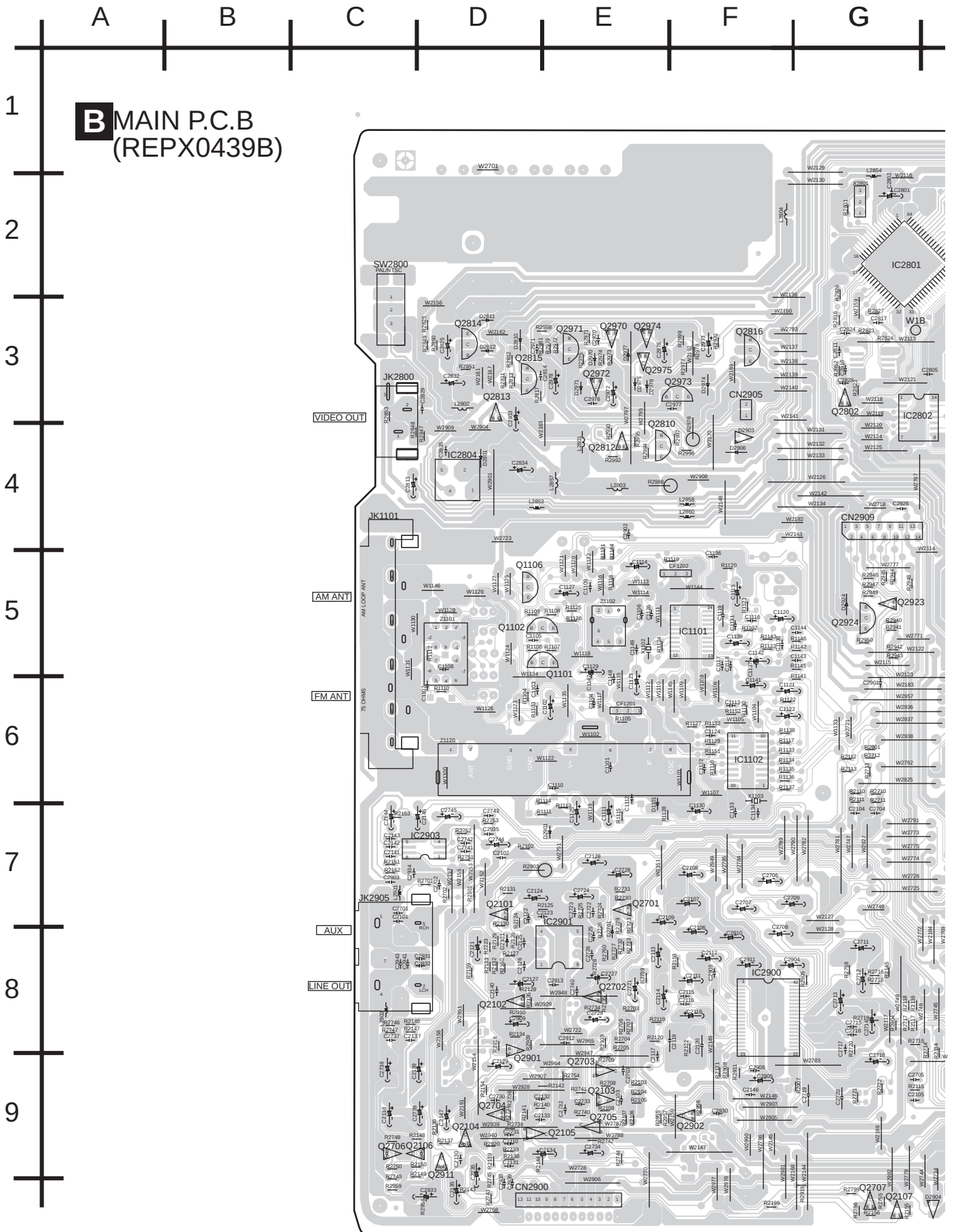
Note: Circuit board diagrams may be modified at any time with the development of new technology.

### 17.1. (A) CD Servo P.C.B. (Side A & B)

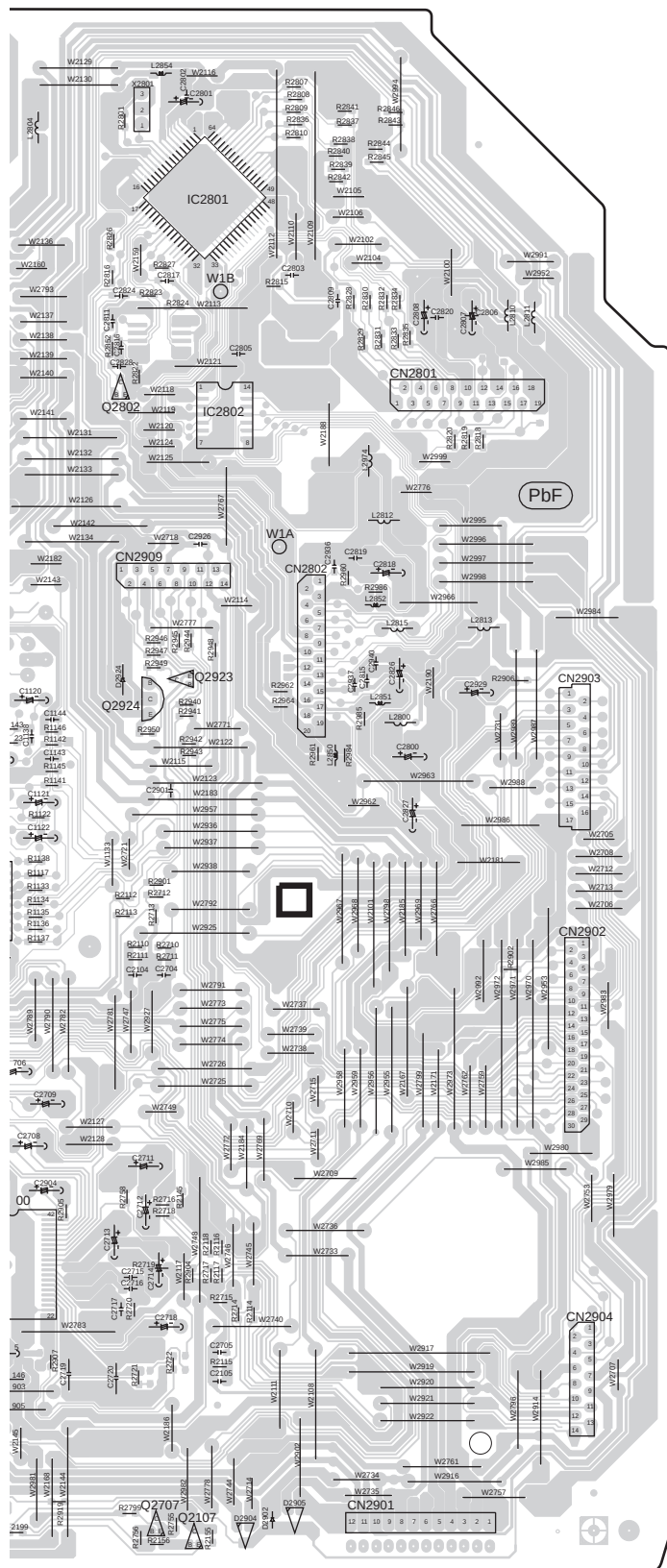




## 17.2. (B) Main P.C.B.

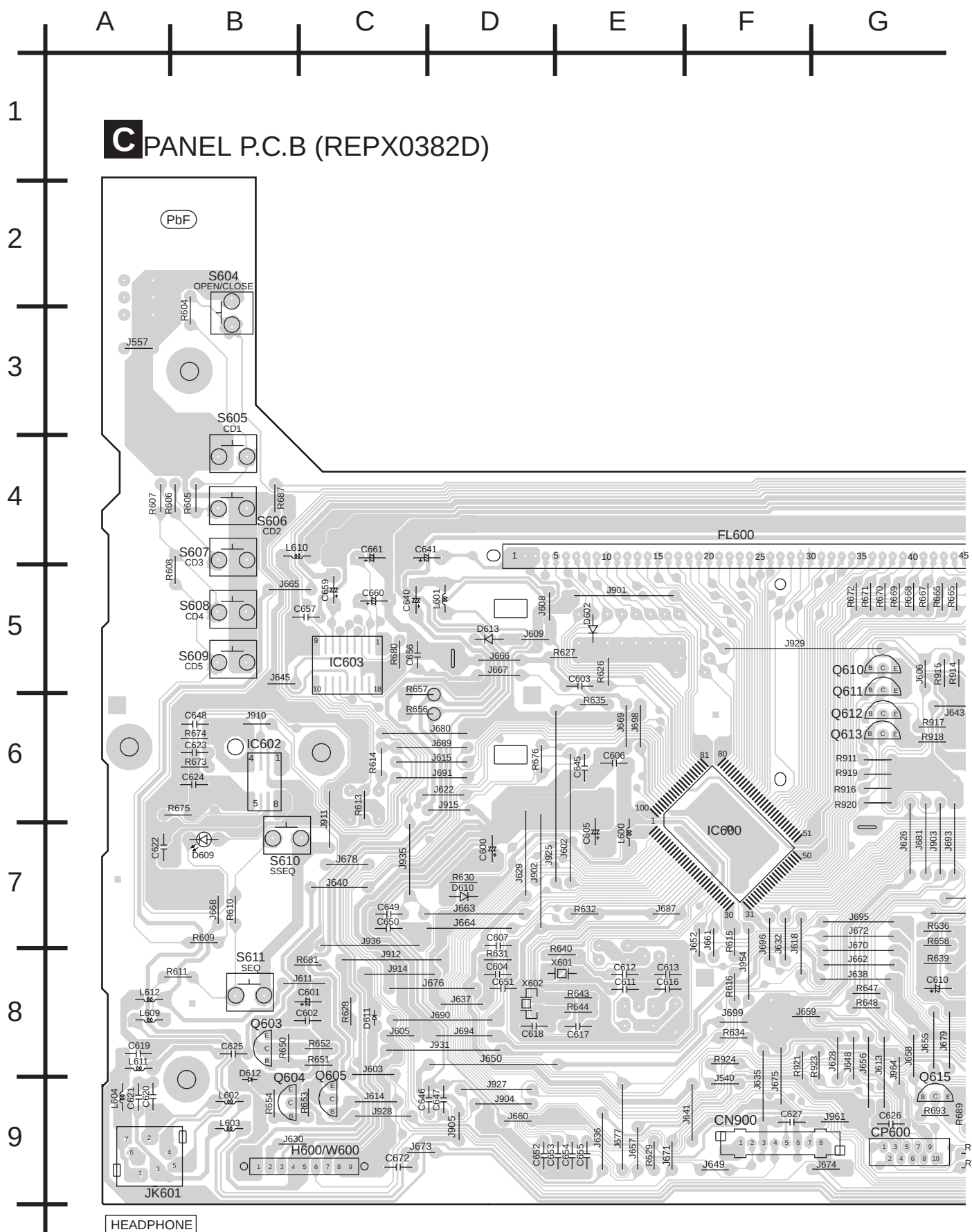


M



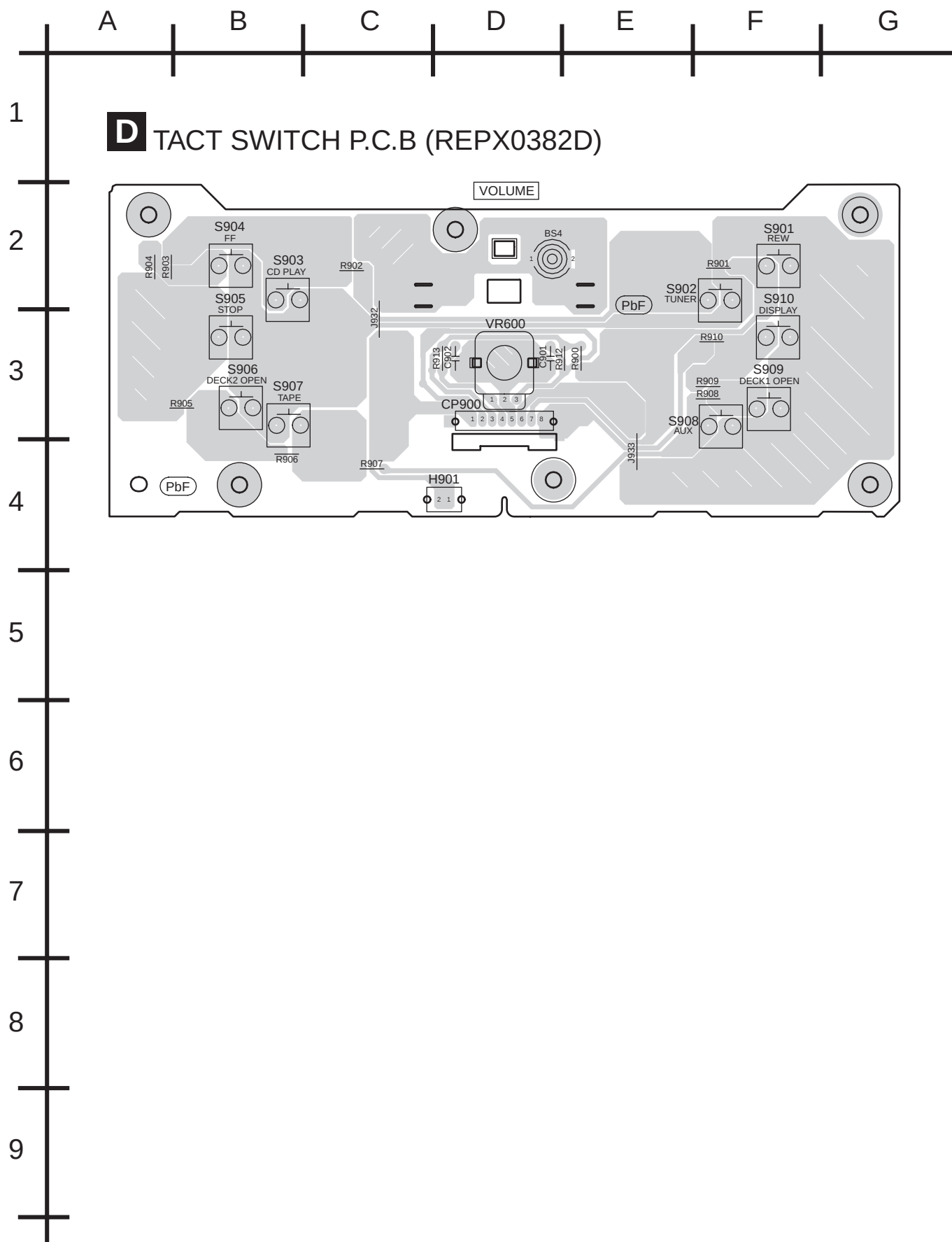


**17.3. (C) Panel P.C.B.**

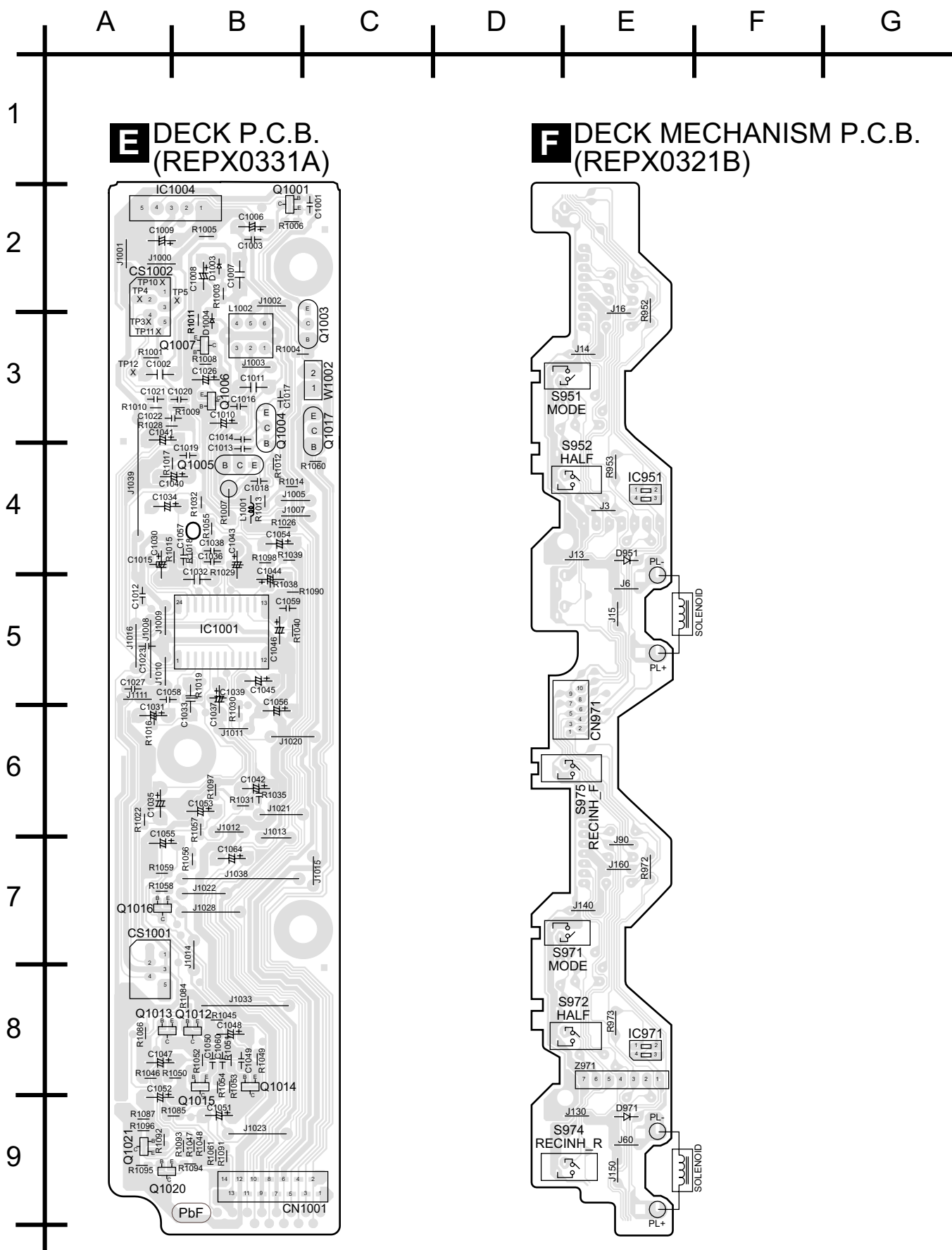




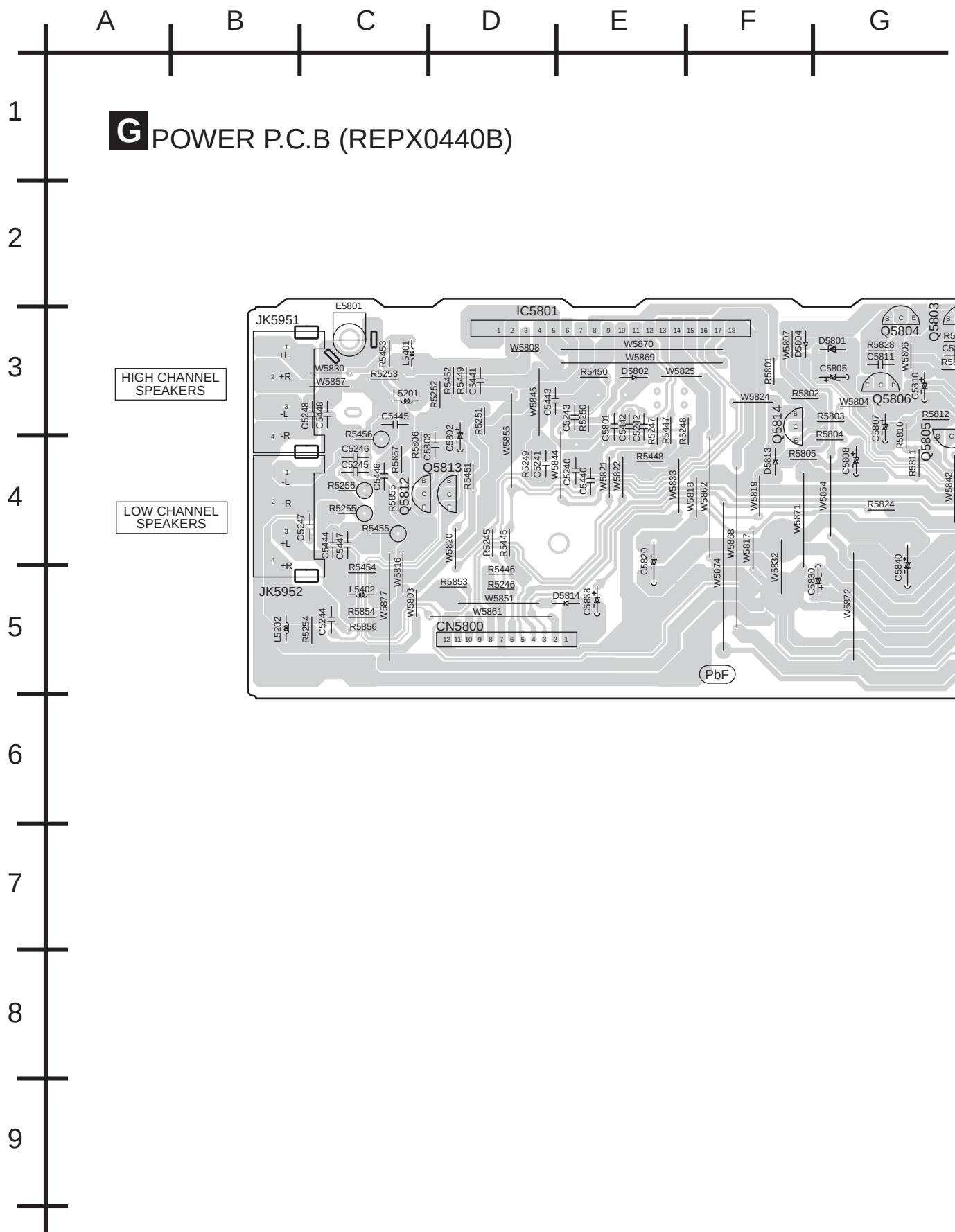
## 17.4. (D) Tact Switch P.C.B.



**17.5. (E) Deck P.C.B. & (F) Deck Mechanism P.C.B.**



## 17.6. (G) Power P.C.B.



G

H

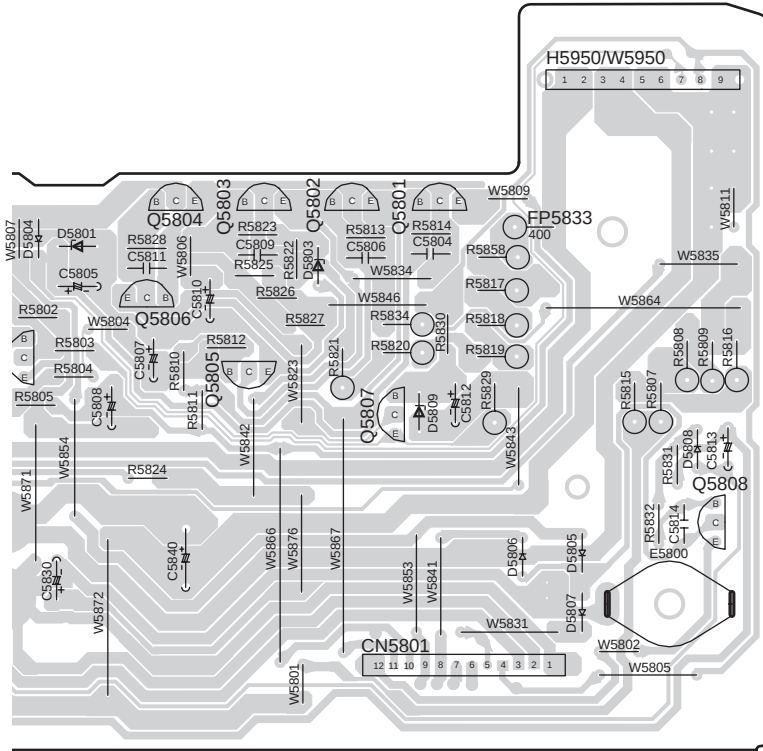
I

J

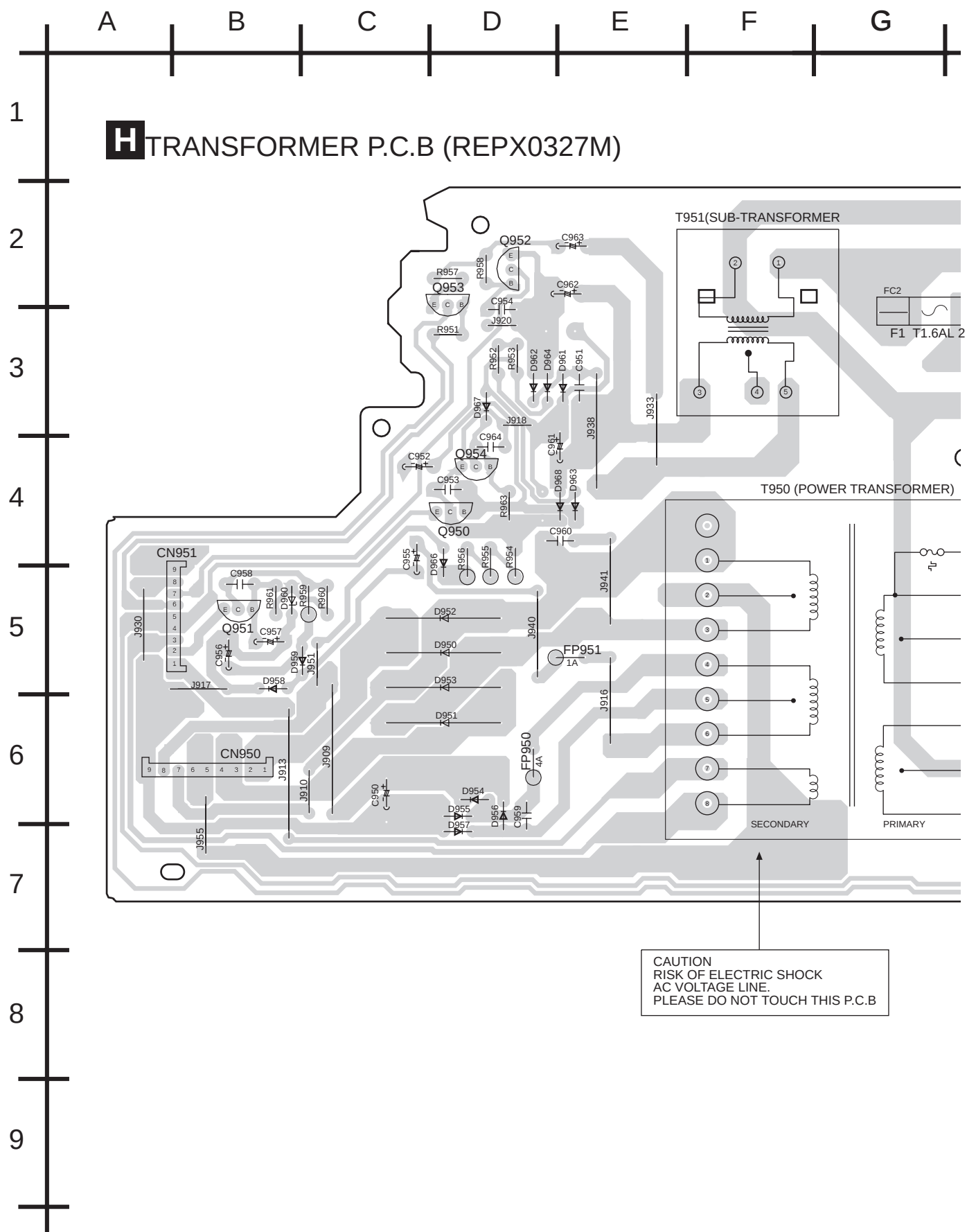
K

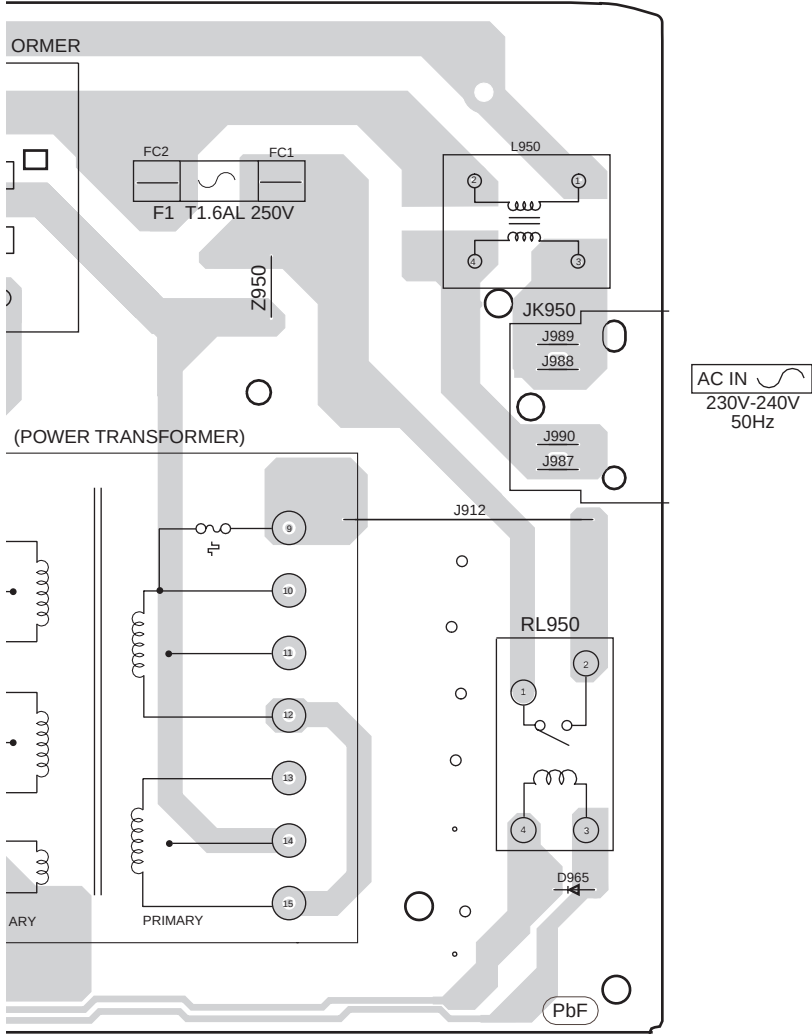
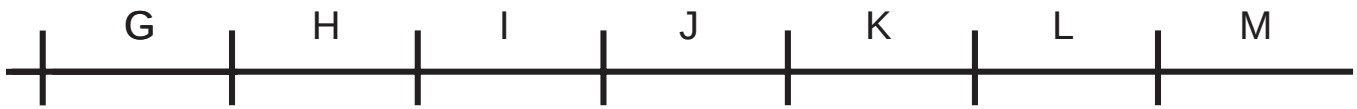
L

M



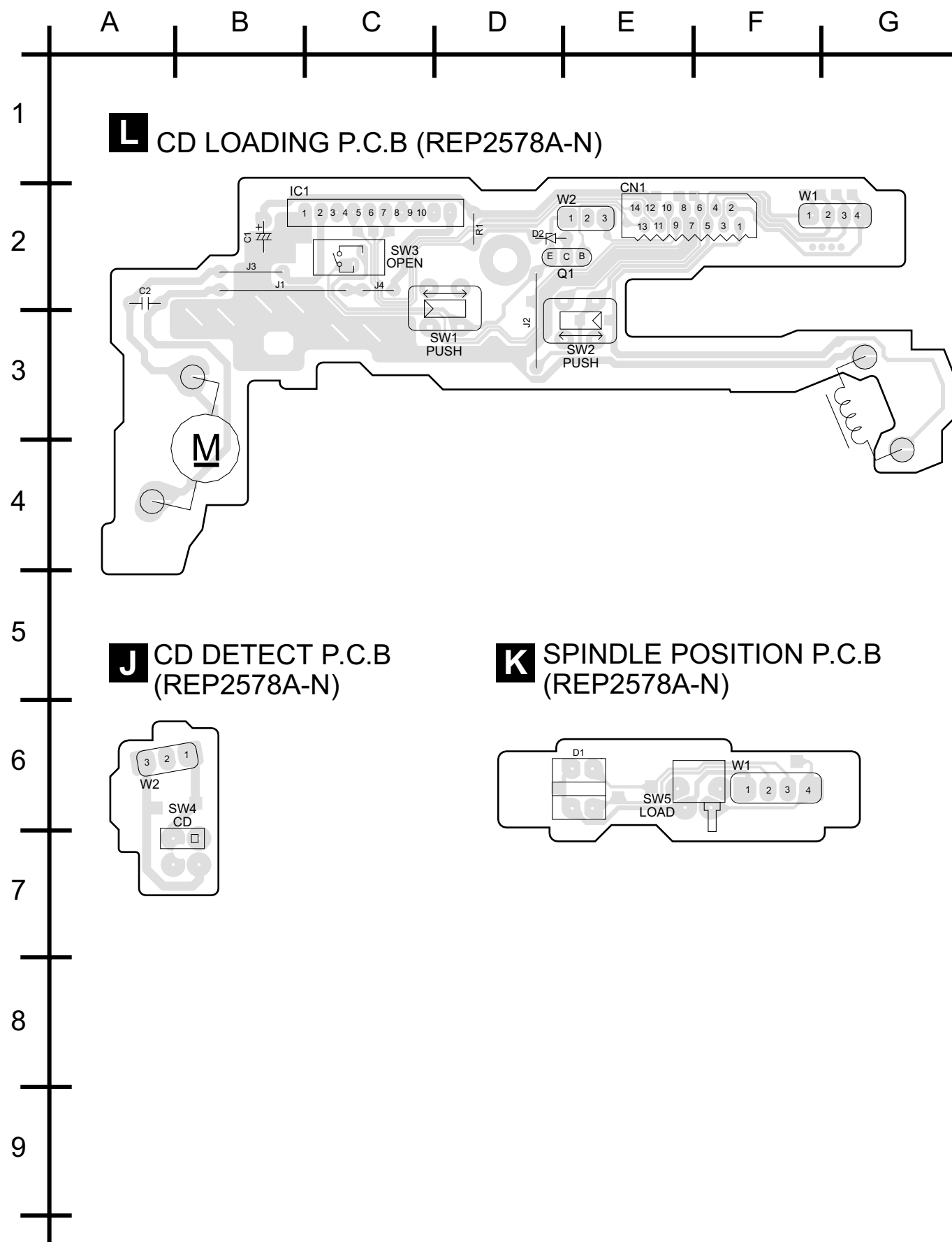
## 17.7. (H) Transformer P.C.B.



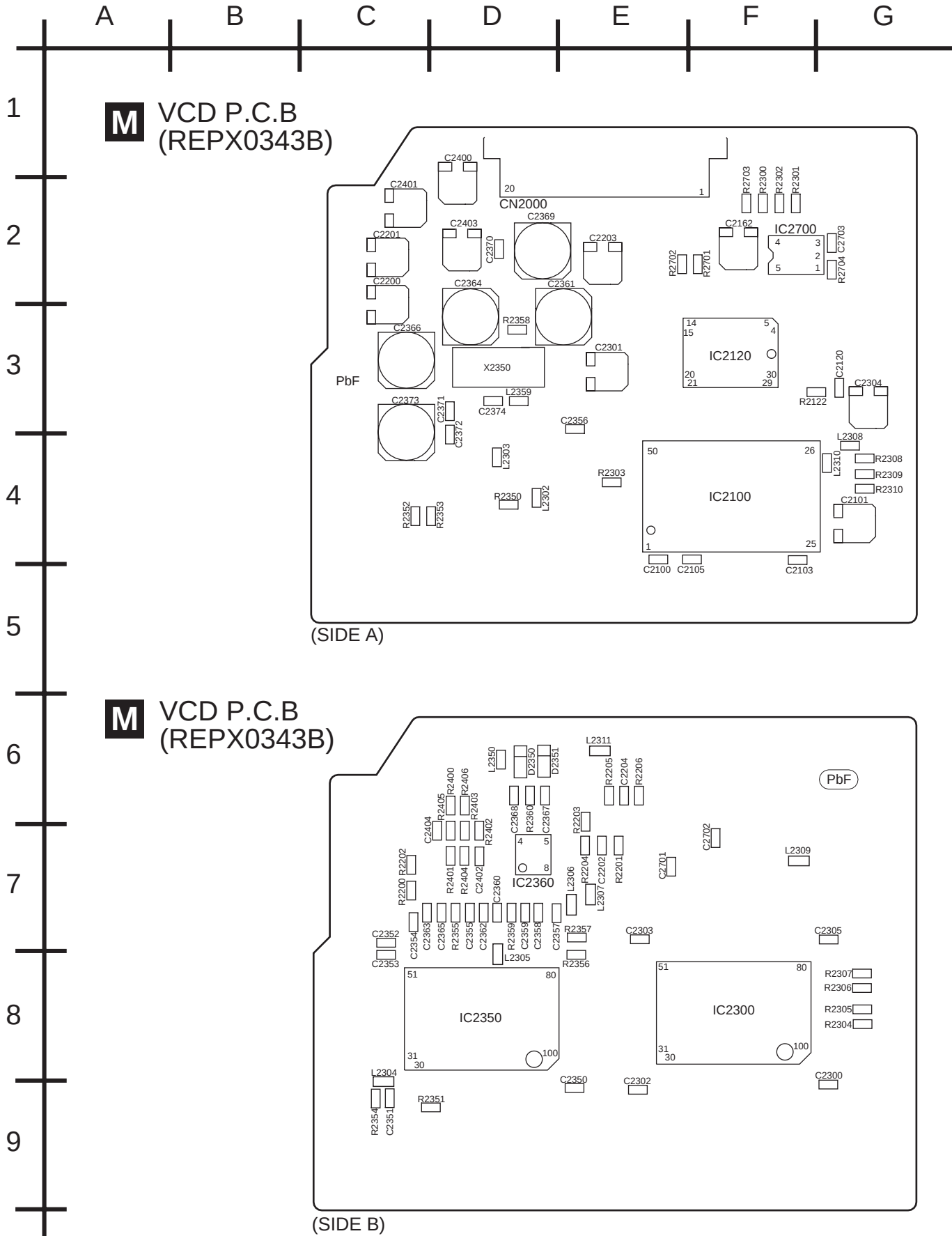




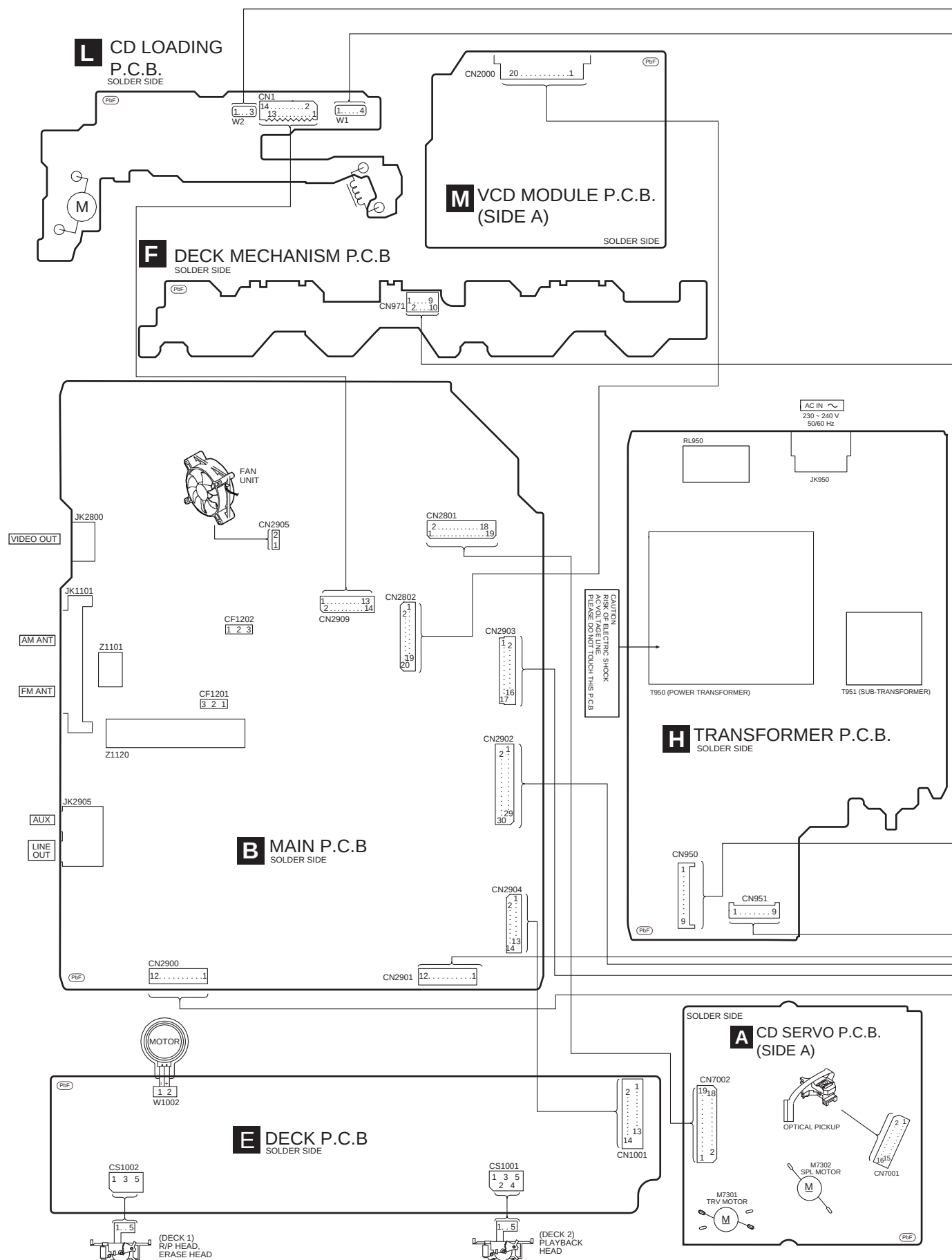
# 17.8. (J) CD Detect P.C.B., (K) Spindle Position P.C.B. & (L) CD Loading P.C.B.

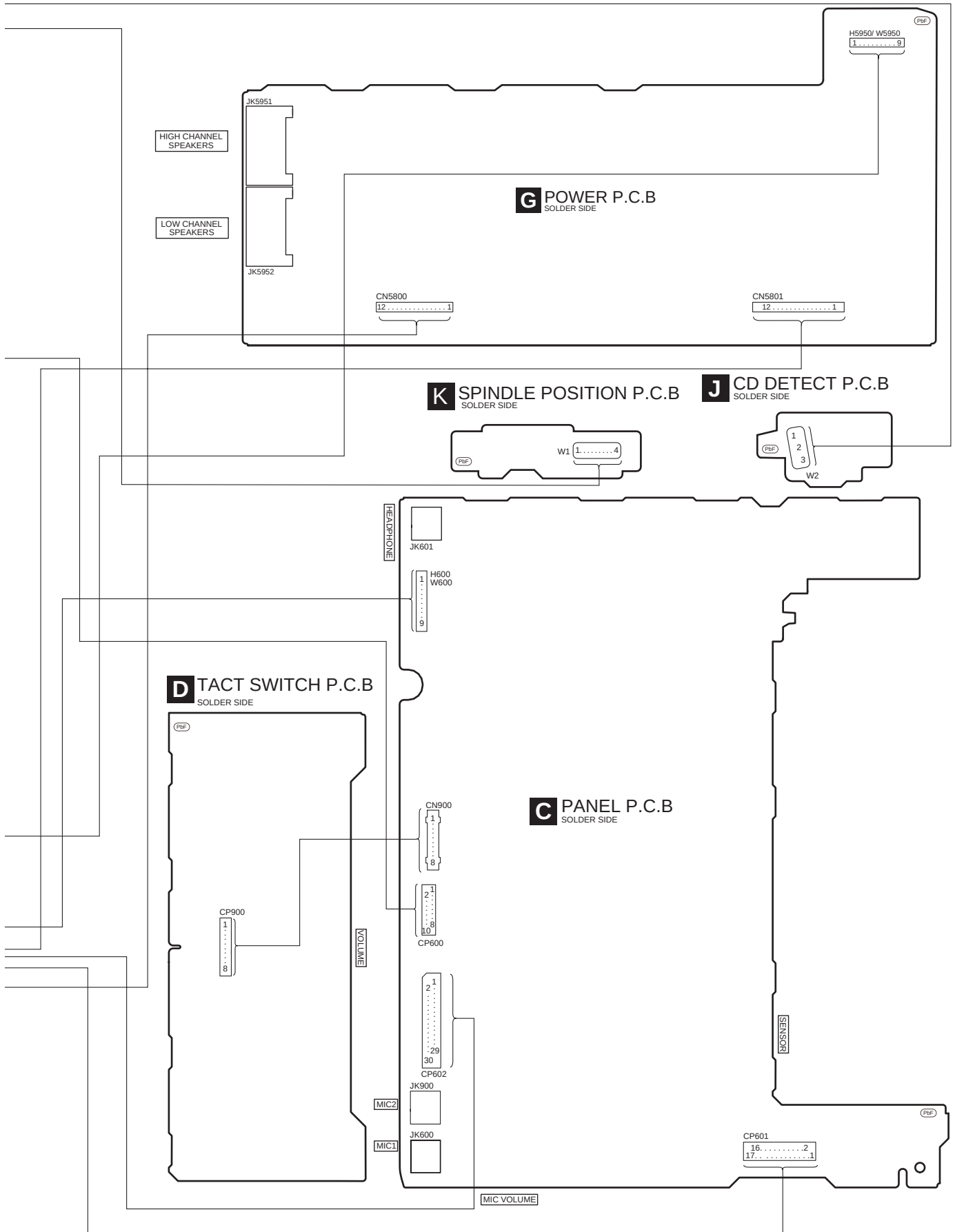


## 17.9. (M) VCD P.C.B. (Side A & B)

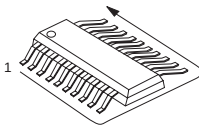
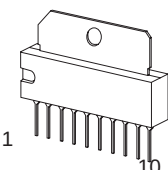
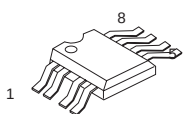
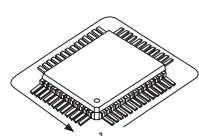
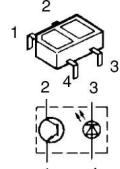
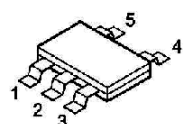
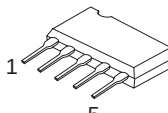
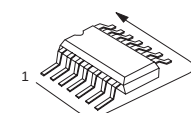
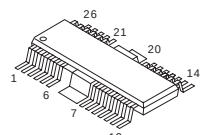
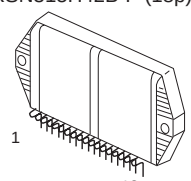
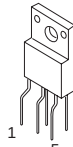
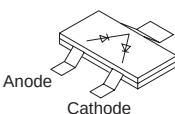
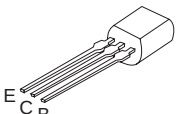
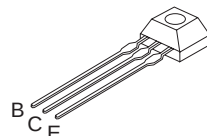
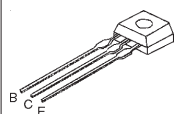
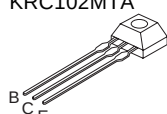
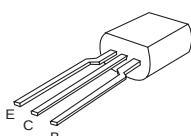
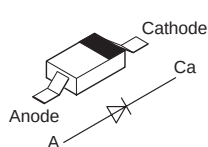
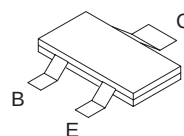
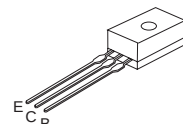
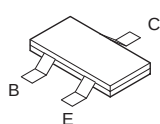
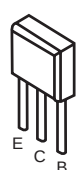
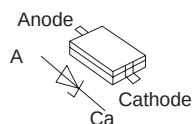
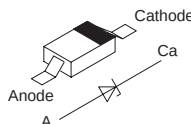
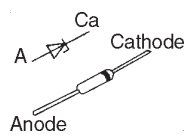
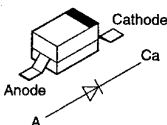
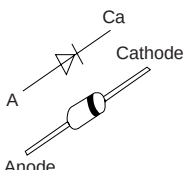
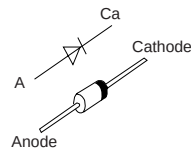
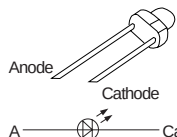
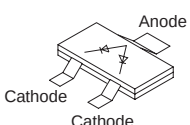
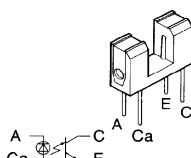
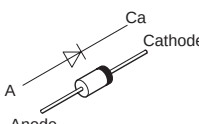


# 18 Wiring Connection Diagram





# 19 Illustration of IC's, Transistors and Diodes

|                                                                                                                                                                                               |                                                                                                                                               |                                                                                                                                                                                                                                      |                                                                                                                      |                                                                                                                                                                                                                   |                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| C1BB00000086 (18p)<br>C1BB00000574 (16p)<br>C1BB00000747 (42p)<br>C1BB00000716 (16p)<br>LA1833NMNTLM (24p)<br>LC72131MDTRM (20p)<br>C0ABBB000126 (8p)<br>KIA4558FEL (8p)<br>AN22004A-NF (32p) | C3FBJC000057<br>AN7348S-E1 (24p)<br>                         | C0GAM0000005 (10p)<br>                                                                                                                              | C0AABB000117<br>                   | MN662790RSC (80p)<br>C1AB00001854 (100p)<br>C1AB00001855 (100p)<br>C2BGF000556 (100p)<br>MN101C30AEB<br>C3ABMG000160 (50p)<br> |                                                                                                                                 |
| CNB13030R2AU<br>                                                                                             | C0CBCAA00003 (5p)<br>                                        | C1AA00000612 (5p)<br>                                                                                                                               | C0JBAZ001229 (14p)<br>             | AN8739SBTE2 (26p)<br>                                                                                                          | RSN315H42B-P (18p)<br>                       |
| C0DAAHG00007 (5p)<br>                                                                                        | B1GACFGG0004<br>                                             | 2SB621ARSTA<br>2SD0592ARA<br>KTA12710YTA<br>                                                                                                        | B1ACCF000063<br>                   | B1AAGC000007<br>KTC3199GRTA<br>                                                                                                | 2SC1740SSTA<br>B1BCCG000021<br>KRC102MTA<br> |
| B1GCCFJJ0015<br>B1GCCFGA0005<br>B1GACFLL0007<br>B1AARC000002<br>                                            | B0ACCE000003<br>                                            | B1ABCF000011<br>B1ADCF000001<br>B1ABEB000001<br>B1GDCFJJ0023<br>B1GBCFJJ0039<br>B1GBCFGH0001<br>B1GDCFJH0002<br>B1GBCFGG0023<br>B1BACG000009<br> |                                                                                                                      | B1BACD000017<br>                                                                                                              |                                                                                                                                 |
| B1ABCF000131<br>B1GBCFNA0019<br>                                                                           | 2SC2058SPTA<br>                                            | B0ACCK000005<br>B0BC3R700004<br>                                                                                                                  | B0BC7R500001<br>B0BC5R000009<br> | B0BA4R600003<br>B0BA01500003<br>B0BA9R600002<br>B0BA5R600016<br>B0BA5R000004<br>B0BA7R000005<br>B0BA02400030<br>             |                                                                                                                                 |
| B0JCPC000004<br>                                                                                           | B0AACK000004<br>MA2J72800L<br>MA2C16500E<br>MA2C72300F<br> | B0EAMM000038<br>B0EAKM000122<br>                                                                                                                 |                                                                                                                      | SLI325URCT31<br>B3ADA0000129<br>                                                                                             | B0ADCJ000020<br>                           |
| GP1S94<br>                                                                                                 | B0EAKM000125<br>B0EAKM000117<br>B0BC01000014<br>           |                                                                                                                                                                                                                                      |                                                                                                                      |                                                                                                                                                                                                                   |                                                                                                                                 |

## 20 Terminal Function of IC's

### 20.1. IC7001 (AN22004A-NF) Servo Amplifier

| Pin No. | Mark    | I/O | Function                                     |
|---------|---------|-----|----------------------------------------------|
| 1       | LPD     | I   | Tracking signal input 1                      |
| 2       | LD      | I   | Tracking signal input 2                      |
| 3       | VCC     | -   | Power supply input                           |
| 4       | EQSW    | I   | Focus signal input terminal 1                |
| 5       | RF      | I   | Focus signal input terminal 2                |
| 6       | RFN     | I   | AGC amp input                                |
| 7       | CAGC    | O   | AGC loop Alter connecting capacitor terminal |
| 8       | ARF     | O   | RF summing output                            |
| 9       | CEA     | I   | Detector's input                             |
| 10      | ENV     | I   | 3TOUT output                                 |
| 11      | DCDET   | I   | Capacitor for HPF amp connection             |
| 12      | CFTCONT | I/O | OFTR detect                                  |
| 13      | BDO     | O   | BDO output ("H": drop out)                   |
| 14      | OFTR    | O   | OFTR output                                  |
| 15      | /RFDET  | O   | NRFDET output ("L" : detection)              |
| 16      | LDON    | I   | LDON Terminal                                |
| 17      | GND     | -   | GND                                          |
| 18      | EQBST   | -   |                                              |
| 19      | VREF    | -   | VREF output Terminal                         |
| 20      | TEN     | I   | TE Amp Input (Low)                           |
| 21      | TEOUT   | -   | TE Amp output                                |
| 22      | FEN     | I   | FE Amp Input (Low)                           |
| 23      | FEOUT   | O   | FE Amp output                                |
| 24      | GCTL    | I/O | GCTL Terminal                                |
| 25      | FBAL    | I/O | Focus Balance control Terminal               |
| 26      | TBAL    | I/O | TBAL control Terminal                        |
| 27      | PDE     | I   | Photo-diode Input                            |
| 28      | PDF     | I   | Photo-diode Input                            |
| 29      | D       | I   |                                              |
| 30      | PDB     | I   | Photo-diode Input                            |
| 31      | C       | I   |                                              |
| 32      | PDA     | I   | Photo-diode Input                            |

### 20.2. IC7002 (MN662790RSC) Servo Processor/ Digital Signal Processor/ Digital Filter/ D/A Converter

| Pin No. | Mark   | I/O | Function                                                                 |
|---------|--------|-----|--------------------------------------------------------------------------|
| 1       | BCLK   | O   | Serial bit clock output                                                  |
| 2       | LRCK   | O   | L/R discriminating signal output                                         |
| 3       | SRDATA | O   | Serial data signal output                                                |
| 4       | DVDD1  | -   | Power supply input ( for digital circuit)                                |
| 5       | DVSS1  | -   | GND (digital circuit)                                                    |
| 6       | TX     | O   | Digital audio interface signal output (Latches data at first transition) |
| 7       | MCLK   | I   | Microprocessor command clock signal input                                |
| 8       | MDATA  | I   | Microprocessor command data signal input                                 |
| 9       | MLD    | I   | Microprocessor command load signal input                                 |
| 10      | SENSE  | O   | Sense signal output (OFT,FESL,MAGEND, NAJEND,POSAD,SFG) (not used,open)  |
| 11      | /FLOCK | O   | Focus servo feeding signal output ("L" : Feed)                           |

| Pin No. | Mark   | I/O | Function                                                                                                                                                                                  |
|---------|--------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12      | /TLOCK | O   | Tracking servo feeding signal output ("L" : Feed)                                                                                                                                         |
| 13      | BLKCK  | O   | Sub-code block clock signal output (BLKCKf = 75Hz during normal playback)                                                                                                                 |
| 14      | SQCK   | I   | External clock signal input for sub-code Q resistor                                                                                                                                       |
| 15      | SUBQ   | I   | sub-code Q code output                                                                                                                                                                    |
| 16      | DMUTE  | I   | Muting input ("H" : mute)                                                                                                                                                                 |
| 17      | STAT   | O   | Status signal output (CRC,CUE,CLVS,TTSTVP, FCLV,SQCK)                                                                                                                                     |
| 18      | /RST   | I   | Reset signal input                                                                                                                                                                        |
| 19      | SMCK   | -   | 1/2-divided clock signal of crystal oscillating at MSEL = "H" (SMCK = 8.4672 MHz) 1/4 divided clock signal of crystal oscillating at MSEL = :L: (fSMCK = 4.2336MHz) (Not connected, open) |
| 20      | CSEL   | I   | Frequency Selection Terminal H = 33.8688 MHz ; L = 16.9344MHz                                                                                                                             |
| 21      | TRV    | -   | (Not connected, open)                                                                                                                                                                     |
| 22      | TVD    | O   | Traverse drive output                                                                                                                                                                     |
| 23      | PC     | O   | Spindle motor ON output ("L" : N)                                                                                                                                                         |
| 24      | ECM    | O   | Spindle motor drive signal output (focred mode output)                                                                                                                                    |
| 25      | ECS    | O   | Spindle motor drive signal output (servo error signal output)                                                                                                                             |
| 26      | KICK   | -   | (Not connected, open)                                                                                                                                                                     |
| 27      | TRD    | O   | Tracking drive output                                                                                                                                                                     |
| 28      | FOD    | O   | Focus drive output                                                                                                                                                                        |
| 29      | VREF   | I   | D/A (drive) output (TVD, ECS, TRD, FOD, FBAL, TBAL Reference voltage input                                                                                                                |
| 30      | FBAL   | O   | Focus balance adjustment output                                                                                                                                                           |
| 31      | TBAL   | O   | Tracking balance adjustment output                                                                                                                                                        |
| 32      | FE     | I   | Focus error signal input (analog input)                                                                                                                                                   |
| 33      | TE     | I   | Tracking error signal input (analog input)                                                                                                                                                |
| 34      | RFENV  | I   | RF envelope signal input                                                                                                                                                                  |
| 35      | VDET   | I   | Vibration detection signal input ("H" ;detection)                                                                                                                                         |
| 36      | OFT    | I   | Off-track signal input ("H" : off track)                                                                                                                                                  |
| 37      | TRCRS  | I   | Track cross signal input                                                                                                                                                                  |
| 38      | /RFDET | I   | RF detection signal input ("L" : detection)                                                                                                                                               |
| 39      | BDO    | I   | Dropout signal input ("H" : Dropout)                                                                                                                                                      |
| 40      | LDON   | O   | Laser on signal output ("H" : ON)                                                                                                                                                         |
| 41      | PLLF2  | -   | (Not connected, open)                                                                                                                                                                     |
| 42      | DSLIF2 | O   | Tracking Offset alignment output/DSL Balance Output (DA Output)                                                                                                                           |
| 43      | WVEL   | O   |                                                                                                                                                                                           |
| 44      | ARF    | I   | RF signal input                                                                                                                                                                           |
| 45      | IREF   | I   | Reference current input                                                                                                                                                                   |
| 46      | DRF    | I   | DSL bias terminal (not used, open)                                                                                                                                                        |
| 47      | DSLIF  | I/O | DSL loop filter terminal                                                                                                                                                                  |
| 48      | PLLF   | I/O | PLL loop filter terminal                                                                                                                                                                  |
| 49      | VCOF   | I/O | VCO loop filter terminal                                                                                                                                                                  |
| 50      | AVDD2  | -   | Power supply input (for analog circuit)                                                                                                                                                   |
| 51      | AVSS2  | -   | GND (for analog circuit)                                                                                                                                                                  |
| 52      | EFM    | -   | FM signal output (Not connected, open)                                                                                                                                                    |

| Pin No. | Mark   | I/O | Function                                                                                                 |
|---------|--------|-----|----------------------------------------------------------------------------------------------------------|
| 53      | PCK    | -   | PLL extraction clock output (fPCK = 4.321 MHz during normal playback)<br>(Not connected, open)           |
| 54      | VCOF2  | I/O | VCO Loop filter for 33.868MHz conversation terminal for 16.9344 MHz crystal mode, must use other circuit |
| 55      | SUBC   | -   | Sub-code serial data output (Not connected, open)                                                        |
| 56      | SBCK   | I   | Clock input for sub-code serial data                                                                     |
| 57      | VSS    | -   | GND                                                                                                      |
| 58      | X1 IN  | I   | Crystal oscillating circuit input (f = 16.9344MHz)                                                       |
| 59      | X2 OUT | O   | Crystal oscillating circuit output (f = 16.9344MHz)                                                      |
| 60      | VDD    | -   | Power supply input (for oscillating circuit)                                                             |
| 61      | BYTCK  | -   | Byte clock output (Not connected, open)                                                                  |
| 62      | /CLDCK | -   | Sub-code frame clock signal output (fCLDCK = 7.35 kHz during normal playback)                            |
| 63      | FCLK   | -   | Crystal frame clock signal output (fCLK = 7.35 kHz, double = 14.7 kHz)                                   |
| 64      | IPFLAG | -   | Interpolation flag output ("H" : Interpolation) (Not connected, open)                                    |
| 65      | FLAG   | -   | Flag output (Not connected, open)                                                                        |
| 66      | CLVS   | -   | Spindle servo phase synchronizing signal output ("H" : CLV, "L" : rough servo) (Not connected, open)     |
| 67      | CRC    | -   | Sub-code CRC checked output ("H" : OK, "L" : NG) (Not connected, open)                                   |
| 68      | DEMPH  | -   | De-emphasis ON signal output ("H" : ON) (Not connected, open)                                            |
| 69      | RESV   | -   | Frame re-synchronizing signal output (Not connected, open)                                               |
| 70      | IOSEL  | I/O | Mode Switching Terminal                                                                                  |
| 71      | /TEST  | I   | Test input                                                                                               |
| 72      | AVDD1  | I   | Power supply input (for analog circuit)                                                                  |
| 73      | OUTL   | I   | Left channel audio signal output                                                                         |
| 74      | AVSS1  | I   | GND                                                                                                      |
| 75      | OUTR   | O   | Right channel audio signal output                                                                        |
| 76      | RSEL   | I   | RF signal polarity assignment input (at "H" level, RSEL="H", at "L" level, RSEL = "L")                   |
| 77      | IOVDD  | I   | 5V supply input                                                                                          |
| 78      | DIDATA | I   | Test terminal (connected to Gnd)                                                                         |
| 79      | DILRCK | I   | SMCK oscillating frequency designation input ("L": 4.2336 MHz, "H": 8.4672 MHz)                          |
| 80      | DISCK  | I   | SUBQ output mode select ("H": Q-code buffer mode)                                                        |

### 20.3. IC7003 (AN8739SBTE2) Focus Coil/ Tracking Coil/ Traverse Motor/ Spindle Motor Driver

| Pin No. | Mark | I/O | Function                                |
|---------|------|-----|-----------------------------------------|
| 1       | /RST | O   | RESET output terminal                   |
| 2       | NC   | -   | N.C.                                    |
| 3       | IN2  | I   | Motor drive (2) input                   |
| 4       | PC2  | I   | Turntable motor drive signal ("L" : ON) |
| 5       | NC   | -   | N.C.                                    |

| Pin No. | Mark  | I/O | Function                                           |
|---------|-------|-----|----------------------------------------------------|
| 6       | IN1   | I   | Motor driver (1) input                             |
| 7       | PVCC1 | -   | N.C.                                               |
| 8       | PGND1 | -   | Power supply (1) for driver                        |
| 9       | PGND1 | -   | Ground connection (1) for driver                   |
| 10      | D1-   | -   | N.C.                                               |
| 11      | D1+   | O   | Motor driver (1) reverse-action output             |
| 12      | D2-   | O   | Motor driver (1) forward-action output             |
| 13      | D2+   | O   | Motor driver (2) reverse-action output             |
| 14      | D3-   | O   | Motor driver (2) forward-action output             |
| 15      | D3+   | O   | Motor driver (3) reverse-action output             |
| 16      | D4-   | O   | Crystal oscillating circuit input (f = 16.9344MHz) |
| 17      | D4+   | O   | Motor driver (4) reverse-action output             |
| 18      | NC    | O   | Motor driver (4) forward-action output             |
| 19      | PGND2 | -   | N.C.                                               |
| 20      | PVCC2 | -   | Ground connection (2) for driver                   |
| 21      | VCC   | -   | Power supply (2) for driver                        |
| 22      | VREF  | -   | N.C.                                               |
| 23      | IN4   | -   | Power supply terminal                              |
| 24      | IN3   | -   | Reference voltage input                            |
| 25      | RSTIN | I   | Motor driver (4) input                             |
| 26      | NC    | I   | Motor driver (3) input                             |

### 20.4. IC2801 (MN101C30AEB) Mechacon IC

| Pin No. | Mark      | I/O | Function                                   |
|---------|-----------|-----|--------------------------------------------|
| 1       | MX/UX     | -   | Not used (GND)                             |
| 2-5     | N.C.      | -   | Not used (GND)                             |
| 6       | VREF+     | -   | A-D Converter + V reference voltage        |
| 7       | VDD       | -   | Power supply (+5V)                         |
| 8       | OSC2      | I   | Oscillation Input                          |
| 9       | OSC1      | I   | Oscillation Input                          |
| 10      | VSS       | -   | Analog Ground                              |
| 11      | VSS       | -   | Not used                                   |
| 12      | XI        | -   | Not used                                   |
| 13      | XO        | -   | Not used (GND)                             |
| 14      | MMOD      | -   | Not used (GND)                             |
| 15      | KCMND     | -   | Not used (GND)                             |
| 16      | FLAG      | -   | Not used (GND)                             |
| 17      | NC        | -   | Not used (GND)                             |
| 18      | SUBQ      | I   | CD Servo LSI sub-code data                 |
| 19      | SQCK      | O   | Clock for reading CD servo LSI sub-code    |
| 20      | ESS_RST   | O   | ESS Chip Reset                             |
| 21      | MICON_RST | I   | Reset Input                                |
| 22      | CD_PCNT   | -   | Not used (GND)                             |
| 23      | EE_CS     | I/O | EEPROM Chip Select                         |
| 24      | EE_DATA   | I/O | EEPROM Data                                |
| 25      | EE_CLK    | I/O | EEPROM Clock                               |
| 26      | /MCS      | -   | Not used (GND)                             |
| 27      | BLKCK     | I   | Block Clock used for reading sub-code data |
| 28      | DC_DET    | -   | Not used (GND)                             |
| 29-31   | NC        | -   | Not used (GND)                             |
| 32      | DSA_STRB  | I/O | Strobe line for DSA                        |
| 33      | DSA_DATA  | I/O | Data line for DSA                          |
| 34      | DSA_CLK   | I/O | Acknowledge line for DSA                   |
| 35-48   | N.C.      | -   | No connection                              |
| 49      | RESTSW    | I   | CD pickup head limit switch input          |

| Pin No. | Mark        | I/O | Function                           |
|---------|-------------|-----|------------------------------------|
| 50      | DRIVER_MUTE | -   | Not used (GND)                     |
| 51      | CLOSE_SW    | -   | Not used (GND)                     |
| 52      | OPEN_SW     | -   | Not used (GND)                     |
| 53      | OPEN        | -   | Not used (GND)                     |
| 54      | CLOSE       | -   | Not used (GND)                     |
| 55      | /DISC       | -   | Not used (GND)                     |
| 56      | /CDRST      | O   | CD servo LSI reset output          |
| 57      | STAT        | I   | CD servo LSI status signal input   |
| 58      | MDATA       | O   | CD servo LSI command DATA output   |
| 59      | MCLK        | O   | CD servo LSI command clock output  |
| 60      | MLD         | O   | CD servo LSI command LOAD command  |
| 61      | VREF-       | -   | A-D Converter -V reference voltage |
| 62      | /TLOCK      | -   | Not used (GND)                     |
| 63      | /FLOCK      | -   | Not used (GND)                     |
| 64      | SENSE       | -   | Not used (GND)                     |

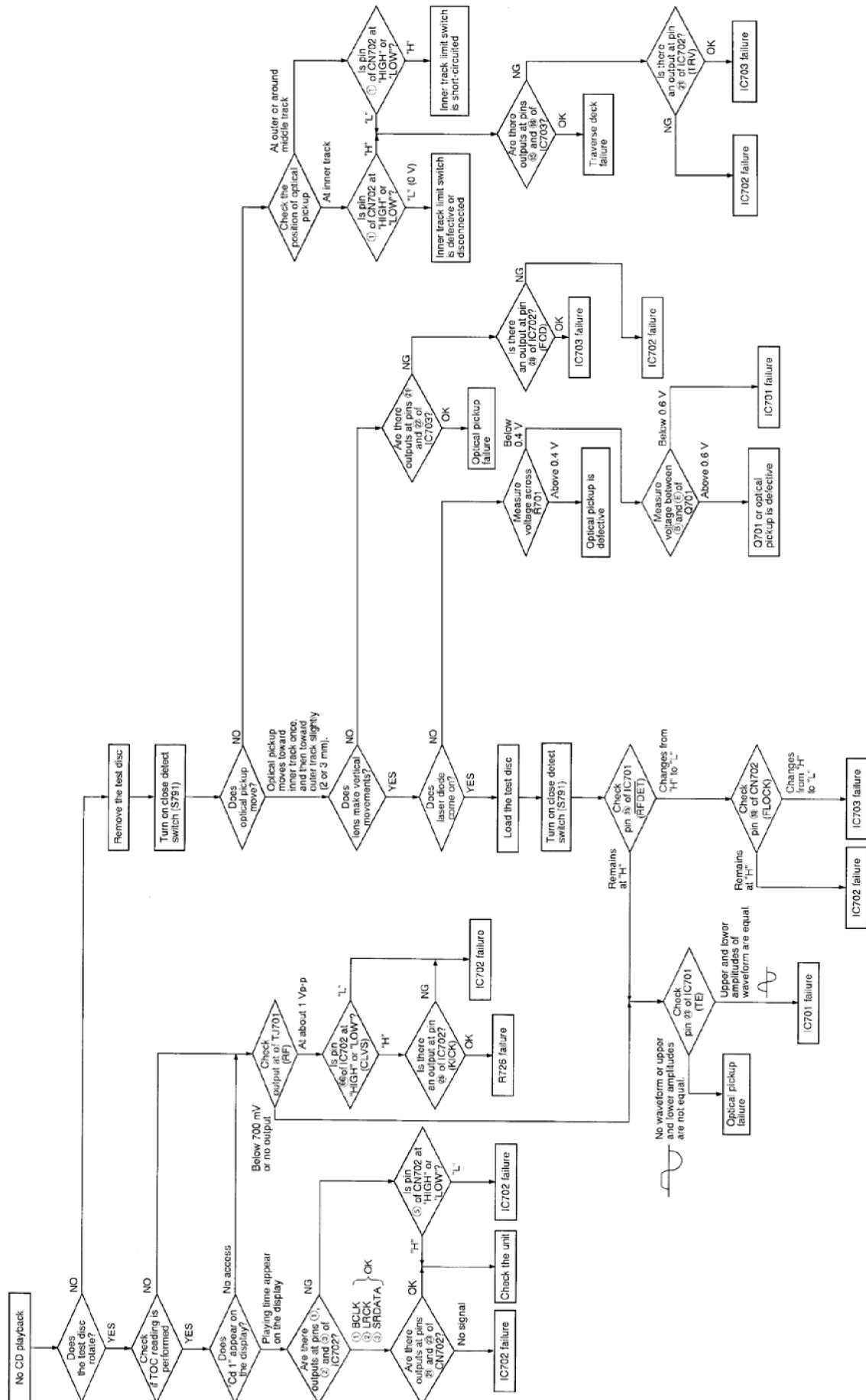
## 20.5. IC600 (C2BBGF000579) Microprocessor

| Pin No. | Mark       | I/O | Function                                                |
|---------|------------|-----|---------------------------------------------------------|
| 1       | DECK2      | I   | RECI_F/MODE2/RECI_R/ HALF2                              |
| 2       | KEY1       | I   | Key 1 input                                             |
| 3       | KEY2       | I   | Key 2 input                                             |
| 4       | VJOG_A     | I   | Volume Jog Detection A                                  |
| 5       | VJOG_B     | I   | Volume Jog Detection B                                  |
| 6       | CHG_AD2    | I   | Changer AD Detection Input (Position/Bottom)            |
| 7       | CHG_AD1    | I   | Changer AD Detection Input (Open/Clamp)                 |
| 8       | DECK1      | O   | HALF1/MODE1                                             |
| 9       | DSA_DATA   | I/O | Micro DSA Data                                          |
| 10      | SP_C       | O   | Speana Control Ouput C                                  |
| 11      | SPE_IN     | I   | Speana AD Input                                         |
| 12      | DSA_STROBE | I/O | Micro DSA Strobe                                        |
| 13      | SD         | I   | Tuner Signal Detect Input                               |
| 14      | SP_B       | O   | SPEANA Control Output B                                 |
| 15      | SP_A       | O   | SPEANA Control Outout A                                 |
| 16      | PCONT      | O   | Main Transformer Control Output                         |
| 17      | CNVss      | -   | Flash Mode Terminal (Connected To Ground)               |
| 18      | /RESET     | I   | Reset input                                             |
| 19      | XCOUT      | -   | 32.768 kHz Sub Clock                                    |
| 20      | XCIN       | -   | 32.768 kHz Sub Clock                                    |
| 21      | VSS        | -   | Ground                                                  |
| 22      | XIN        | -   | 4.19 MHz Main Clock                                     |
| 23      | XOUT       | -   | 4.19 MHz Main Clock                                     |
| 24      | VCC        | -   | Power Supply (+5V)                                      |
| 25      | MBP1       | -   | Microcomputer Beat Proof Output 1 (Not connected, open) |
| 26      | MBP2       | -   | Microcomputer Beat Proof Output 2 (Not connected, open) |
| 27      | PLLCK      | O   | Tuner PLL Clock Output                                  |
| 28      | PLLDATA    | O   | Tuner PLL Data Output                                   |
| 29      | RMT        | I   | Remote Control Input                                    |
| 30      | DSA_ACK    | I/O | DSA Acknowledge                                         |
| 31      | PLLCE      | O   | Tuner PLL Chip Enable                                   |
| 32      | SYNC       | I   | AC Failure Detect Input                                 |
| 33      | DCDET      | I   | DC Detect Input                                         |
| 34      | CHG_CCW    | O   | Changer Motor Counterclockwise Output                   |
| 35      | CHG_CW     | O   | Changer Motor Clockwise Output                          |
| 36      | CHG_HALF   | O   | Changer Half Drive Output                               |
| 37      | CHG_PLGR   | O   | Changer Plunger Output                                  |
| 38      | CHG_SW2    | I   | CD Changer Switch 2 Input                               |

| Pin No. | Mark                     | I/O | Function                                                                              |
|---------|--------------------------|-----|---------------------------------------------------------------------------------------|
| 39      | CHG_SW1                  | I   | CD Changer Switch 1 Input                                                             |
| 40      | CDPCONT                  | O   | CD Power Control (Active Level: L)                                                    |
| 41      | MM_RST                   | O   | Mechacon Reset (Active: L)                                                            |
| 42      | PHOTO_01                 | I   | Deck 1 Photo Detect Signal                                                            |
| 43      | PHOTO_02                 | I   | Deck 2 Photo Detect Signal                                                            |
| 44-78   | SEG37-3                  | O   | Segment Drive Output (Anode Drive Output)                                             |
| 79-80   | R9/ SEG1- R10/ SEG2      | O   | Segment Drive Output (Anode Drive Output)                                             |
| 81-88   | REG8/ GRID8- REG1/ GRID1 | O   | Digit Drive Output (Grid Drive Output)<br>For regional setting/Function Selection Use |
| 89      | VEE                      | -   | Power supply (-30V)                                                                   |
| 90      | REG_IN                   | I   | Region and Function Setting Input                                                     |
| 91      | EE_CS                    | O   | EEPROM Chip Select                                                                    |
| 92      | SER4                     | O   | EE_CLK/EX1_CLK                                                                        |
| 93      | SER3                     | O   | EE_DAT/EX1_DAT                                                                        |
| 94      | SER2                     | O   | ASP_CLK                                                                               |
| 95      | SER1                     | O   | ASP_DAT                                                                               |
| 96      | ECHO_LVL                 | O   | Echo Level D/A Output                                                                 |
| 97      | AVSS                     | -   | Analog Ground                                                                         |
| 98      | VREF                     | -   | Reference for A-D                                                                     |
| 99      | FAN_CTRL                 | -   | Fan Control (Active Level: H) (Not connected, open)                                   |
| 100     | ST/DO                    | I   | Tuner IF Data/Stereo Input                                                            |



# 21 Troubleshooting Guide



## 22 Parts Location and Replacement Parts List

### Notes:

- Important safety notice:

Components identified by  mark have special characteristics important for safety.

Furthermore, special parts which have purposes of fire-retardent (resistors), high-quality sound (capacitors), low noise (resistors), etc are used.

When replacing any of these components, be sure to use only manufacturer's specified parts shown in the parts list.

- The parenthesized indications in the Remarks columns specify the areas or colour. (Refer to the cover page for area or colour)

Parts without these indications can be used for all areas.

- Warning: This product uses a laser diode. Refer to caution statements on "Precaution of Laser Diode".

- Capacitor values are in microfarads ( $\mu\text{F}$ ) unless specified otherwise, P= Pico-farads (pF), F= Farads.

- Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM).

- The marking (RTL) indicates that the Retention Time is limited for this items. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of a availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

- [M] markings in the Remarks columns indicates parts supplied by **PAVCSG**.

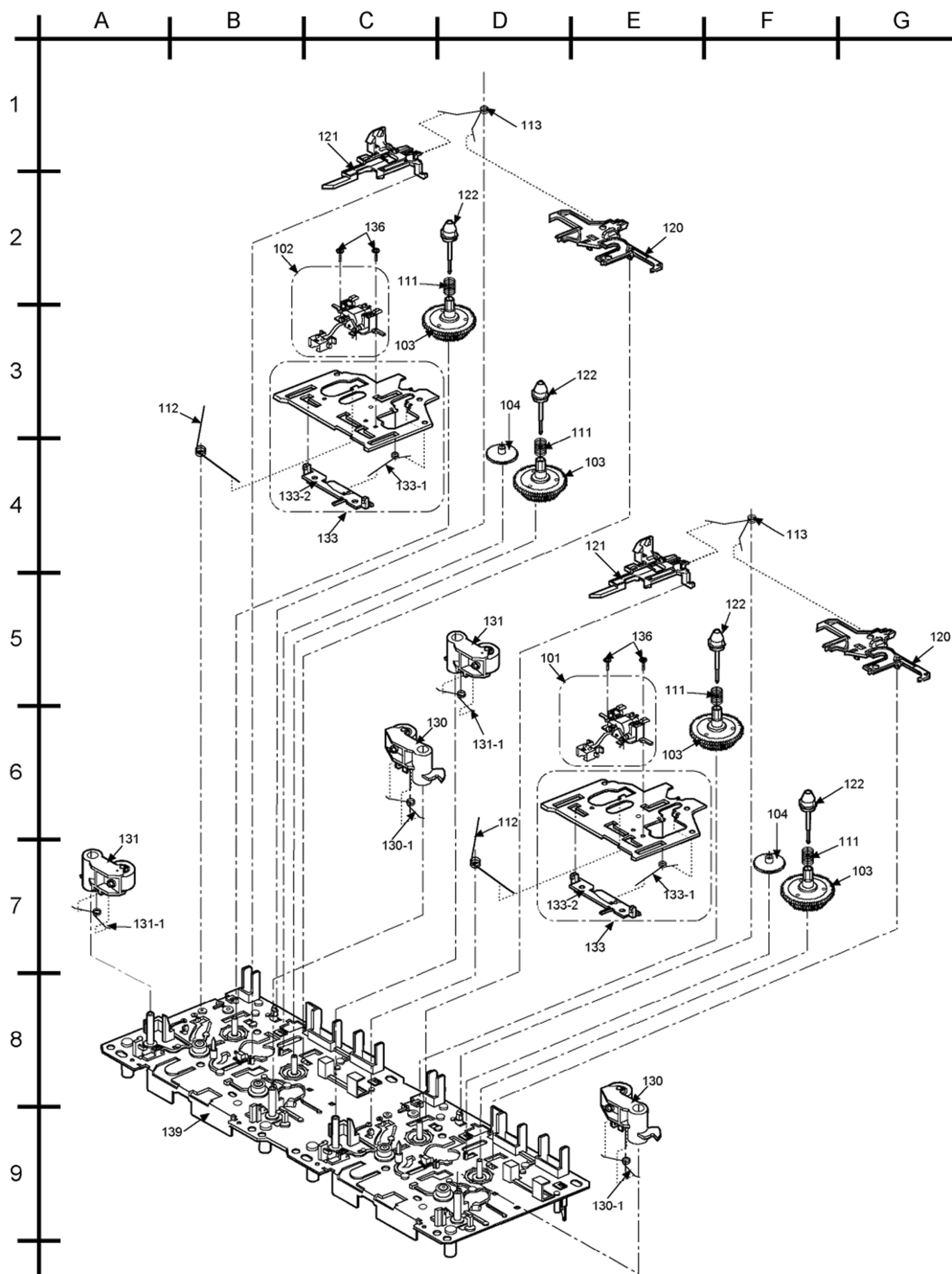
- [SPC] markings in the Remarks columns indicates parts that are supplied by **PAVC**.

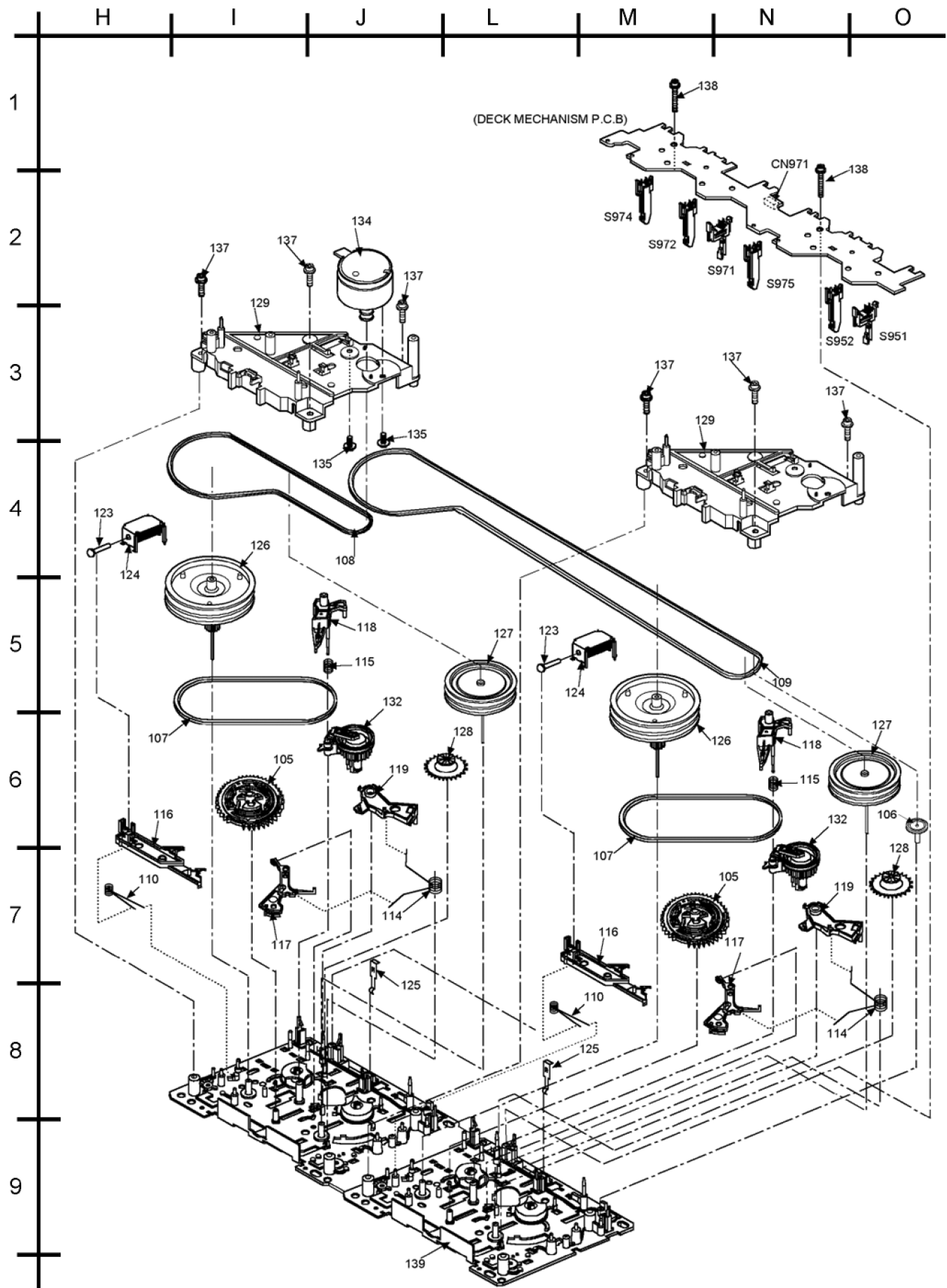
- Reference for O/I book languages are as follows:

|     |                 |     |         |     |         |     |                     |
|-----|-----------------|-----|---------|-----|---------|-----|---------------------|
| Ar: | Arabic          | Du: | Dutch   | It: | Italian | Sp  | Spanish             |
| Cf: | Canadian French | En: | English | Ko: | Korean  | Sw: | Swedish             |
| Cz: | Czech           | Fr: | French  | Po: | Polish  | Co: | Traditional Chinese |
| Da: | Danish          | Ge: | German  | Ru: | Russian | Cn: | Simplified Chinese  |
| Pe: | Persian         |     |         |     |         |     |                     |

## 22.1. Deck Mechanism (RAA3412-S)

### 22.1.1. Deck Mechanism Parts Location



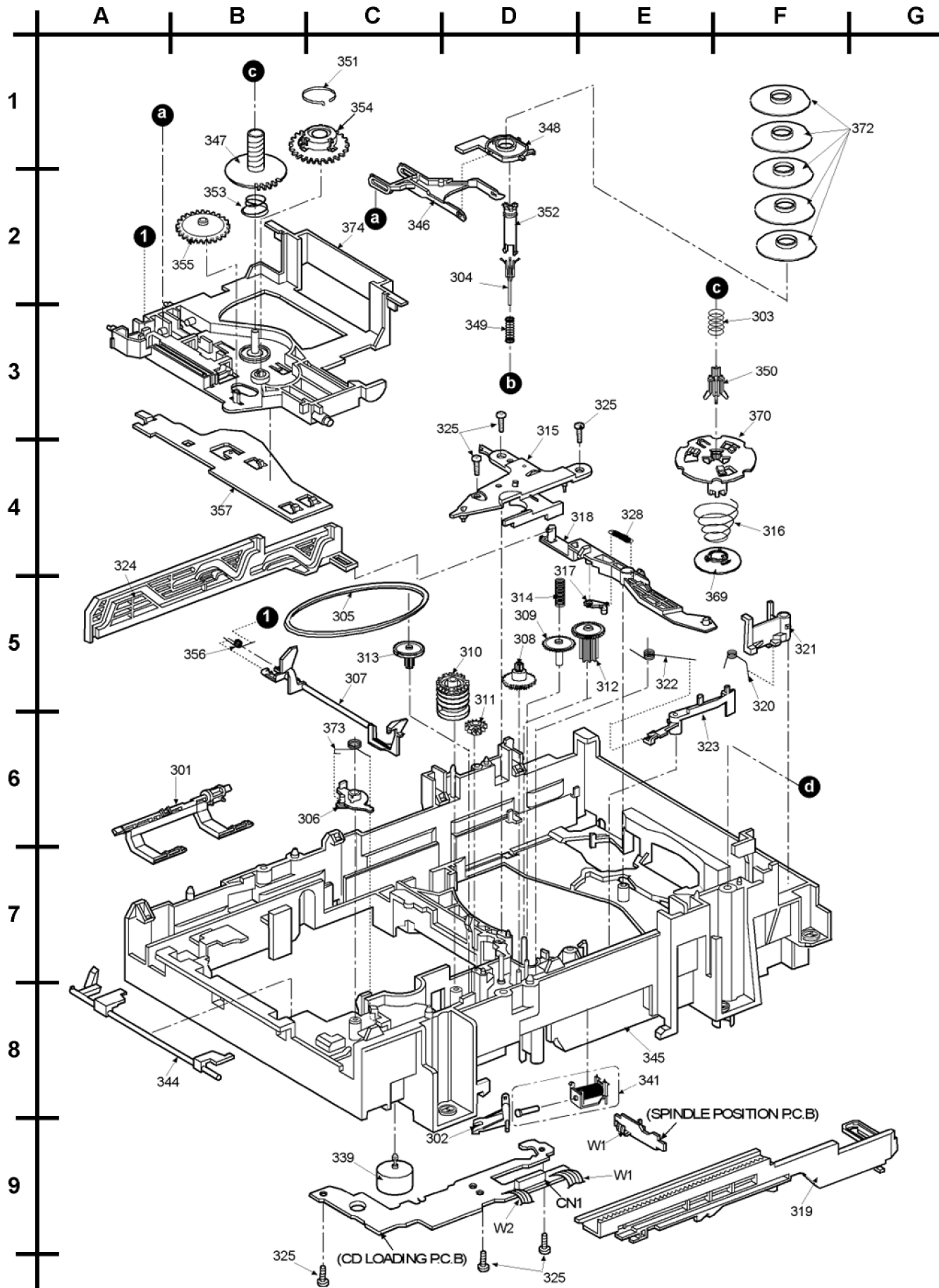


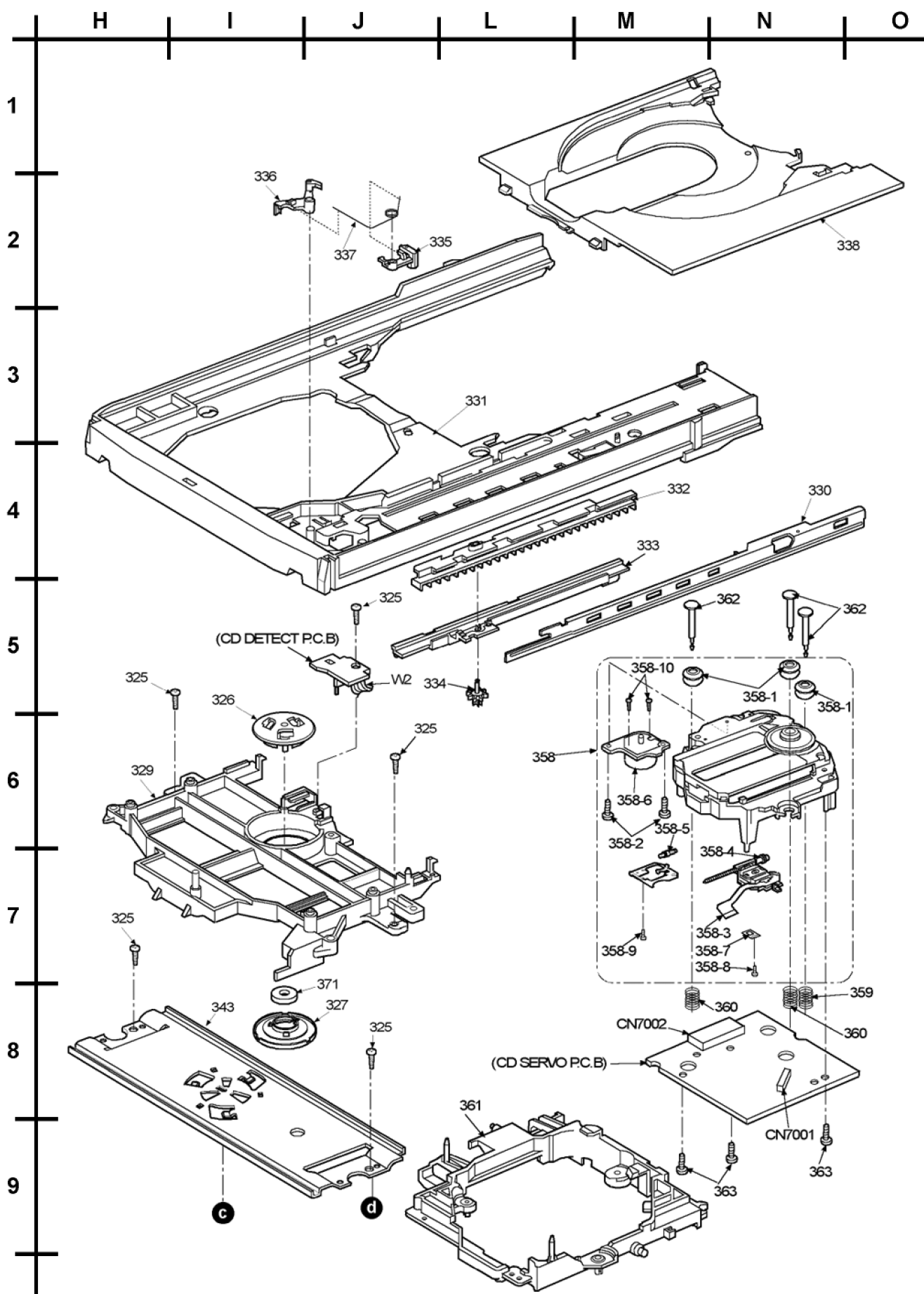
## 22.1.2. Deck Mechanism Parts List

| Ref. No. | Part No.    | Part Name & Description | Remarks |
|----------|-------------|-------------------------|---------|
|          |             | CASSETTE DECK           |         |
| 101      | RED0071     | R/P HEAD BLOCK UNIT     | [M]     |
| 102      | RED0072     | P/B HEAD BLOCK UNIT     | [M]     |
| 103      | RDG0300     | REEL BASE GEAR          | [M]     |
| 104      | RDG0301     | WINDING RELAY GEAR      | [M]     |
| 105      | RDK0026     | MAIN GEAR               | [M]     |
| 106      | RDR0029-3   | RELAY PULLEY            | [M]     |
| 107      | RDV0033-4   | WINDING BELT            | [M]     |
| 108      | RDV0034-1   | CAPSTAN BELT A          | [M]     |
| 109      | RDV0057     | MAIN BELT B             | [M]     |
| 110      | RMB0312     | TRIGGER LEVER SPRING    | [M]     |
| 111      | RMB0400     | REEL SPRING             | [M]     |
| 112      | RMB0403     | HEAB PANEL SPRING       | [M]     |
| 113      | RMB0404     | BRAKE ROD SPRING        | [M]     |
| 114      | RMB0406     | FR LEVER SPRING         | [M]     |
| 115      | RMB0408     | THRUST SPRING           | [M]     |
| 116      | RML0370     | TRIGGER LEVER           | [M]     |
| 117      | RML0371     | FR LEVER                | [M]     |
| 118      | RML0372     | WINDING LEVER           | [M]     |
| 119      | RML0374     | EJECT LEVER             | [M]     |
| 120      | RMM0131     | BRAKE ROD               | [M]     |
| 121      | RMM0133-1   | EJECT ROD               | [M]     |
| 122      | RMQ0519     | REEL HUB                | [M]     |
| 123      | RMS0398-1   | MOVING CORE             | [M]     |
| 124      | RSJ0003     | PLUNGER ASS'Y           | [M]     |
| 125      | RMC0061     | PACK SPRING             | [M]     |
| 126      | RXF0049     | FLYWHEEL F ASS'Y        | [M]     |
| 127      | RXF0050     | FLYWHEEL R ASS'Y        | [M]     |
| 128      | RXG0040     | FF RELAY GEAR ASS'Y     | [M]     |
| 129      | RMK0283A-J  | SUB-CHASSIS             | [M]     |
| 130      | RXL0124     | PINCH ROLLER F ASS'Y    | [M]     |
| 130-1    | RMB0401     | PINCH ARM SPRING F      | [M]     |
| 131      | RXL0125     | PINCH ROLLER R ASS'Y    | [M]     |
| 131-1    | RMB0402     | PINCH ARM SPRING R      | [M]     |
| 132      | RXL0126     | WINDING ARM ASS'Y       | [M]     |
| 133      | RXQ0412     | HEAD PANEL ASS'Y        | [M]     |
| 133-1    | RMB0405     | FR ROD SPRING           | [M]     |
| 133-2    | RMM0132     | FR ROD                  | [M]     |
| 134      | REM0088     | CAP MOTOR ASS'Y         | [M]     |
| 135      | RHD26022    | MOTOR SCREW             | [M]     |
| 136      | XTW2+5L     | HEAD BLOCK UNIT SCREW   | [M]     |
| 137      | XTW26+10S   | SUB-CHASSIS SCREW       | [M]     |
| 138      | XYC2+JF17   | PCB EARTH SCREW         | [M]     |
| 139      | RFKJXED70-K | MAIN CHASSIS            | [M]     |

## 22.2. CD Loading Mechanism (RD-DAC026-S)

### 22.2.1. CD Loading Mechanism Parts Location





## 22.2.2. CD Loading Mechanism Parts List

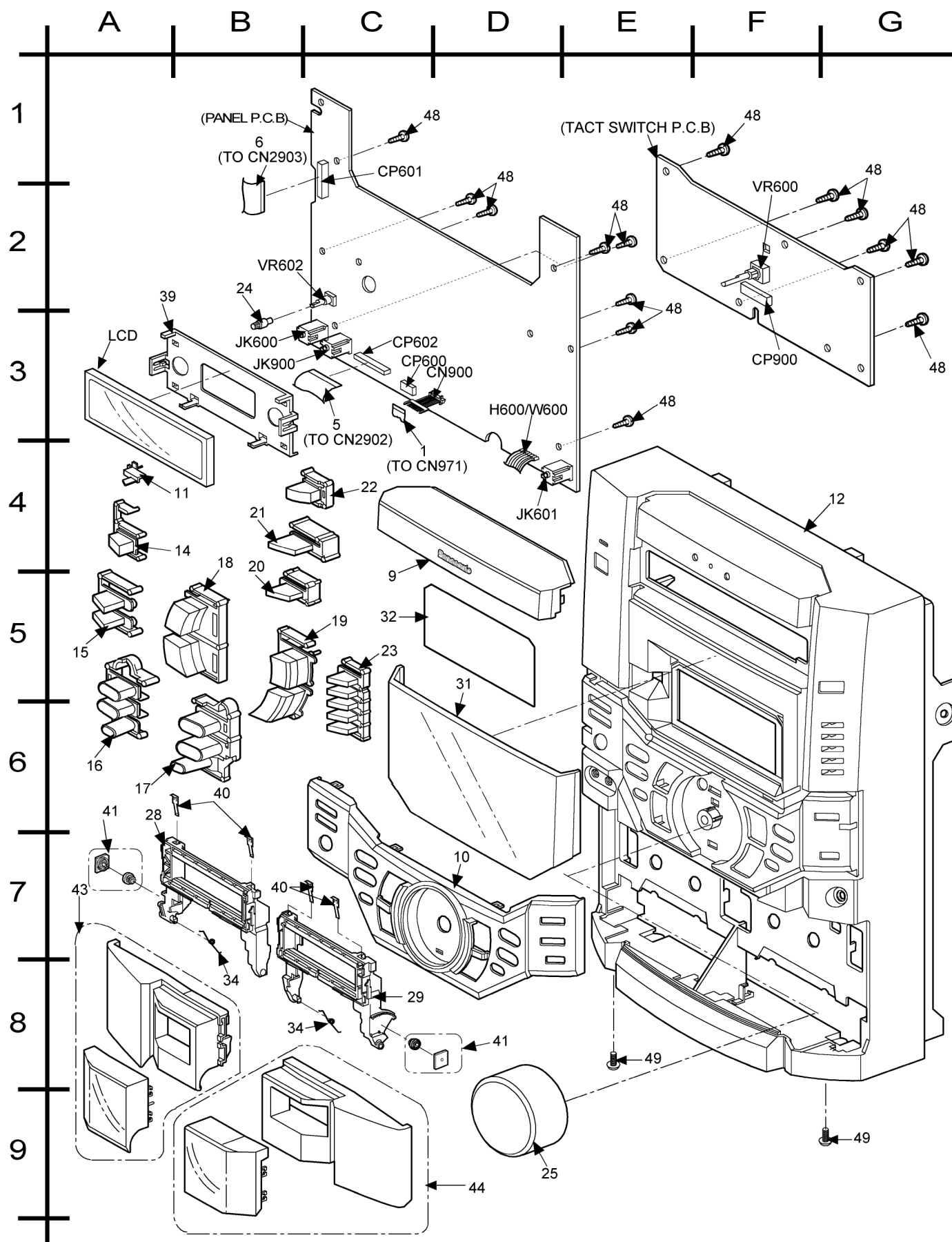
| Ref. No. | Part No.     | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
|          |              | TRAVERSE DECK           |         |
| 301      | RML0517      | TIMING LEVER            | [M]     |
| 302      | RML0516      | PLUNGER LEVER           | [M]     |
| 303      | RMB0551      | UPPER SPINDLE SPRING    | [M]     |
| 304      | RMQ0744      | LOWER HOOK              | [M]     |
| 305      | RDV0056      | BELT                    | [M]     |
| 306      | RML0525      | FRONT LOCK LEVER        | [M]     |
| 307      | RML0526      | DISC LEVER              | [M]     |
| 308      | RDG0424      | DRIVE GEAR              | [M]     |
| 309      | RDG0425      | CHANGE GEAR             | [M]     |
| 310      | RDG0427      | TRAVERSE CAM GEAR       | [M]     |
| 311      | RDG0428      | TRAVERSE RELAY GEAR     | [M]     |
| 312      | RDG0426      | UP/DOWN GEAR            | [M]     |
| 313      | RDG0429      | PULLEY GEAR             | [M]     |
| 314      | RMB0549-1    | CHANGE GEAR SPRING      | [M]     |
| 315      | RMQ0748      | PITCH PLATE             | [M]     |
| 316      | RMB0553      | PUSH SPRING             | [M]     |
| 317      | RML0530      | ASSIST LEVER            | [M]     |
| 318      | RML0518      | CONNECTION LEVER        | [M]     |
| 319      | RMM0201      | SLIDE PLATE 1           | [M]     |
| 320      | RME0258      | REAR LOCK SPRING        | [M]     |
| 321      | RML0521      | REAR LOCK               | [M]     |
| 322      | RME0257      | TRAY LOCK LEVER SPRING  | [M]     |
| 323      | RML0520      | TRAY LOCK               | [M]     |
| 324      | RMM0202      | SLIDE PLATE 2           | [M]     |
| 325      | XTB3+10J     | SCREW                   | [M]     |
| 326      | RMR0334      | FIXED PLATE             | [M]     |
| 327      | RMR0624-W2   | CLAMPER                 | [M]     |
| 328      | RMB0561      | ASSIST LEVER SPRING     | [M]     |
| 329      | RMR1121-K    | MECHA COVER             | [M]     |
| 330      | RMA1110-2    | TRAY ANGLE              | [M]     |
| 331      | RMR1122-H1   | TRAY BASE               | [M]     |
| 332      | RMM0204      | CARRIER                 | [M]     |
| 333      | RMM0203      | DRIVE RACK              | [M]     |
| 334      | RDG0432      | SPEED UP GEAR           | [M]     |
| 335      | RML0524      | SLIDE LOCK              | [M]     |
| 336      | RML0523      | CARRIER LOCK            | [M]     |
| 337      | RME0260-1    | SLIDE LOCK SPRING       | [M]     |
| 338      | RMR1123-H    | TRAY                    | [M]     |
| 339      | RXQ0595      | MOTOR SUB ASS'Y         | [M]     |
| 341      | RSJ0003      | SOLENOID ASS'Y          | [M]     |
| 343      | RMA1106      | UPPER PLATE             | [M]     |
| 344      | RML0519      | CD LEVER                | [M]     |
| 345      | RFKNAAK27GCS | MECHA BASE ASS'Y        | [M]     |
| 346      | RML0522      | TURNING STOPPER         | [M]     |
| 347      | RMQ0745      | LOWER SPINDLE           | [M]     |
| 348      | RMQ0746      | UP/DOWN BASE            | [M]     |
| 349      | RMB0550      | LOWER SPINDLE SPRING    | [M]     |
| 350      | RMQ0747      | UPPER HOOK              | [M]     |
| 351      | RME0263      | CLICK SPRING            | [M]     |
| 352      | RMQ0743      | SPINDLE SHAFT           | [M]     |
| 353      | RMB0552      | CUSHION SPRING          | [M]     |
| 354      | RDG0430      | RELAY GEAR 'A'          | [M]     |
| 355      | RDG0431      | RELAY GEAR 'B'          | [M]     |
| 356      | RME0262      | DISK LEVER SPRING       | [M]     |
| 357      | RMA1105      | SUPPORT PLATE           | [M]     |
| 358      | RAE0153Z-S   | TRV                     | [M]     |
| 358-1    | SHGD113-1    | FLOATING CUSHION        | [M]     |
| 358-2    | SNSD38       | TRV MOTOR ASSY SCREW    | [M]     |
| 358-3    | RAF0152A-S   | OPU UNIT                | [M]     |
| 358-4    | RDG0247      | DRIVE GEAR              | [M]     |
| 358-5    | RDG0248      | RELAY GEAR              | [M]     |
| 358-6    | RXQ0339      | TRV MOTOR ASSY          | [M]     |
| 358-7    | RXQ0304-1    | NUT PLATE ASSY          | [M]     |
| 358-8    | XQN17+CG5    | NUT PLATE ASSY SCREW    | [M]     |
| 358-9    | XQS2+A3FZ    | SPINDLE MOTOR SCREW     | [M]     |
| 358-10   | XQS17+A35FZ  | TRV MOTOR SCREW         | [M]     |
| 359      | RME0142      | FLOATING SPRING A       | [M]     |
| 360      | RME0109      | FLOATING SPRING B       | [M]     |
| 361      | RMR1124A-K   | TRV CHASSIS             | [M]     |
| 362      | RMS0632      | TRV PIN                 | [M]     |

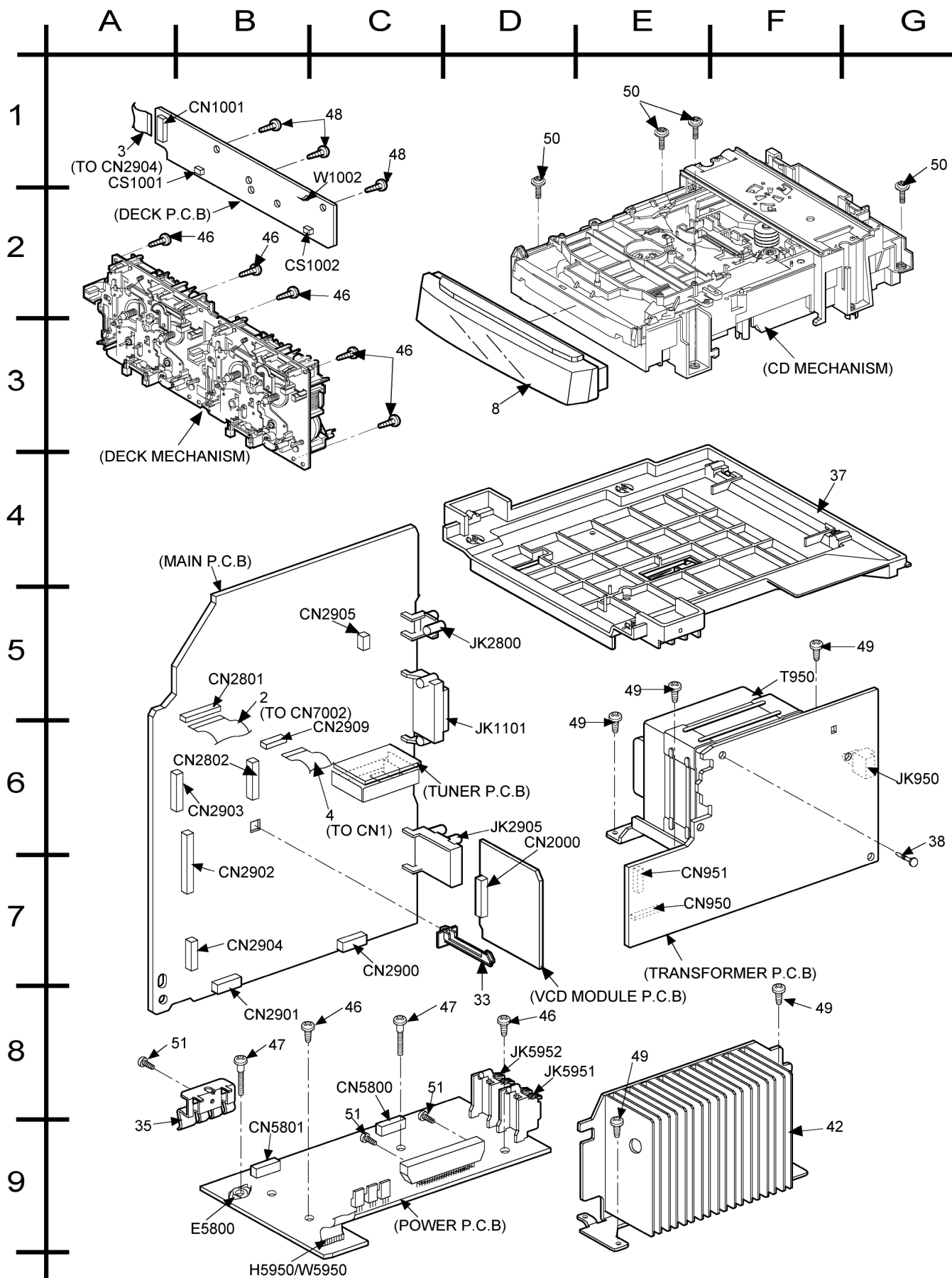
| Ref. No. | Part No. | Part Name & Description | Remarks |
|----------|----------|-------------------------|---------|
| 363      | XTN2+6G  | SCREW                   | [M]     |
| 369      | RMX0141  | PUSH SPACER             | [M]     |
| 370      | RMQ0749  | UPPER SPINDLE           | [M]     |
| 371      | RHM0001  | MAGNET                  | [M]     |
| 372      | RMX0140  | DISC SPACER             | [M]     |
| 373      | RME0261  | FRONT LOCK SPRING       | [M]     |
| 374      | RMQ0742  | SPINDLE BASE            | [M]     |

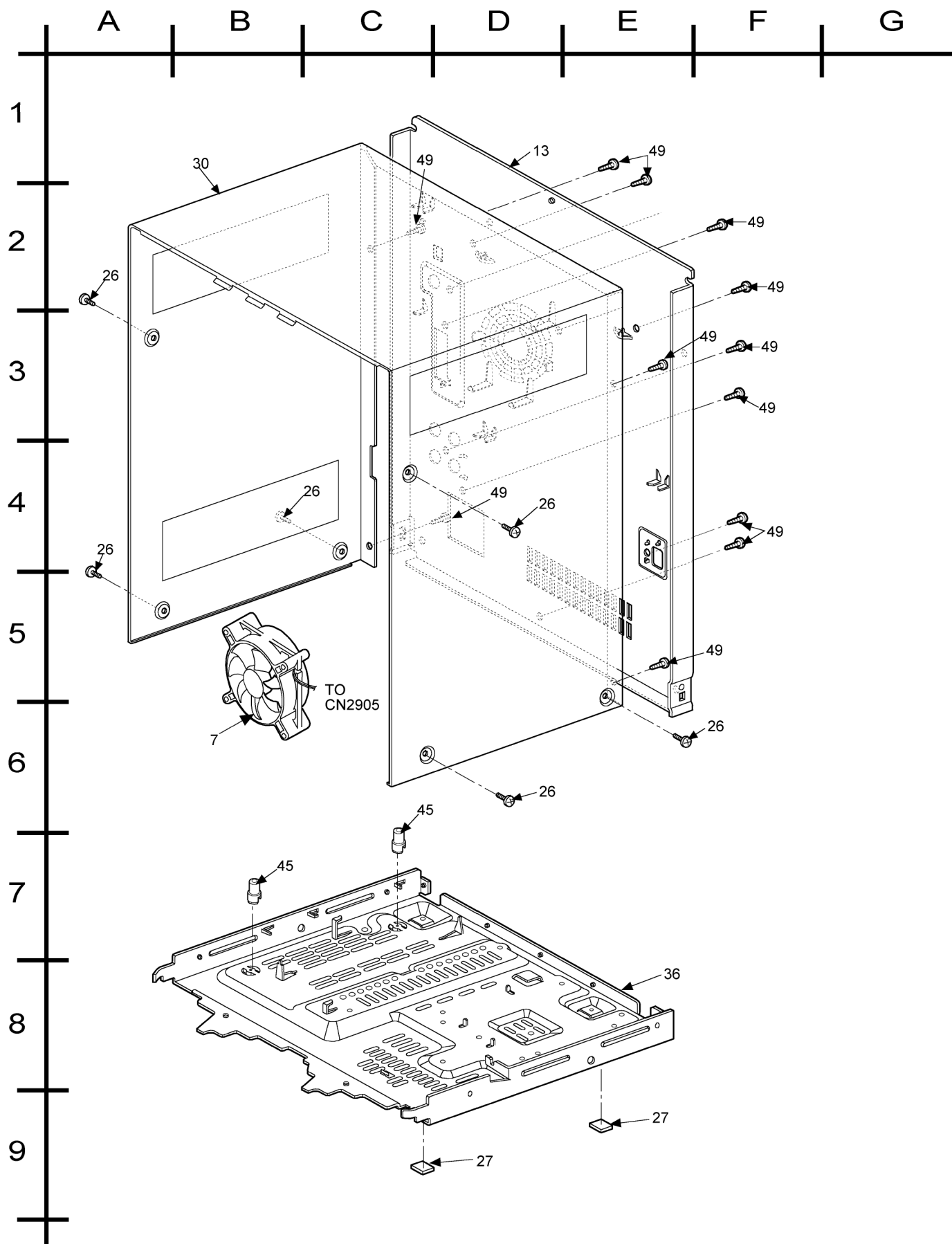


## 22.3. Cabinet

### 22.3.1. Cabinet Parts Location







## 22.3.2. Cabinet Parts List

| Ref. No. | Part No.     | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
|          |              | CABINET AND CHASSIS     |         |
| 1        | REEX0202     | 10P FFC                 | [M]     |
| 2        | REEX0391     | 19P FFC WIRE            | [M]     |
| 3        | REEX0211     | 14P FFC WIRE            | [M]     |
| 4        | REEX0212     | 14P FFC WIRE            | [M]     |
| 5        | REEX0215     | 30P FFC                 | [M]     |
| 6        | REEX0291     | 17P FFC (PANEL-MAIN)    | [M]     |
| 7        | REM0072-4    | FAN                     | [M]     |
| 8        | RYQX0093-S   | CD LID UNIT             | [M]     |
| 9        | RGKX0209B-V  | TOP ORNAMENT            | [M]     |
| 10       | RGKX0211-2S  | CONTROL PANEL           | [M]     |
| 11       | RGLX0069-Q   | POWER LIGHT CHIP        | [M]     |
| 12       | RGPX0110C-S  | FRONT PANEL             | [M]     |
| 13       | RGRX0023Q-AA | REAR PANEL              | [M]     |
| 14       | RGUX0527-S   | POWER BUTTON            | [M]     |
| 15       | RGUX0528-S   | DECK 1/2 CONTROL BTN    | [M]     |
| 16       | RGUX0529-S   | CONTROL BUTTON (L)      | [M]     |
| 17       | RGUX0530-S   | CONTROL BUTTON (R)      | [M]     |
| 18       | RGUX0531A-1S | FUNCTION BUTTON (L)     | [M]     |
| 19       | RGUX0532C-1S | FUNCTION BUTTON (R)     | [M]     |
| 20       | RGUX0533-S   | PRESET EQ BUTTON        | [M]     |
| 21       | RGUX0534A-Q  | SS EQ BUTTON            | [M]     |
| 22       | RGUX0535-S   | CD EJECT BUTTON         | [M]     |
| 23       | RGUX0536-S   | 5 CD CONTROL BUTTON     | [M]     |
| 24       | RGWX0056-S   | MIC VOL KNOB            | [M]     |
| 25       | RGWX0080-S   | VOLUME KNOB             | [M]     |

| Ref. No. | Part No.    | Part Name & Description | Remarks |
|----------|-------------|-------------------------|---------|
| 26       | RHD30004-2S | SCREW                   | [M]     |
| 27       | RKA0059-K   | LEG RUBBER              | [M]     |
| 28       | RKFX0093-K  | CASS. HOLDER (L)        | [M]     |
| 29       | RKFX0094-K  | CASS. HOLDER (R)        | [M]     |
| 30       | RKMX0077-S  | TOP CABINET (BENT)      | [M]     |
| 31       | RKWX0210-V  | FL WINDOW               | [M]     |
| 32       | RKWX0216-1  | FL FILTER               | [M]     |
| 33       | RMA1110-2   | TRAY ANGLE              | [M]     |
| 34       | RMBX0021    | CASS OPEN SPRING        | [M]     |
| 35       | RM CX0021   | TRANSISTOR CLIP         | [M]     |
| 36       | RMKX0064-1  | BOTTOM CHASSIS          | [M]     |
| 37       | RMKX0066-1L | CD CHASSIS              | [M]     |
| 38       | RMNX0019    | PCB SPACER              | [M]     |
| 39       | RMNX0079    | FL HOLDER               | [M]     |
| 40       | RUG757ZAA   | CASS HALF SPRING        | [M]     |
| 41       | RXGX0002    | DAMPER GEAR             | [M]     |
| 42       | RXXX0039A   | HEAT SINK UNIT          | [M]     |
| 43       | RYFX0127-S  | CASS LID UNIT (L)       | [M]     |
| 44       | RYFX0128-S  | CASS LID UNIT (R)       | [M]     |
| 45       | SHE187-5J   | PCB SUPPORT             | [M]     |
| 46       | XTB3+10JFZ  | SCREW                   | [M]     |
| 47       | XTB3+20J    | SCREW                   | [M]     |
| 48       | XTBS26+10J  | SCREW                   | [M]     |
| 49       | XTBS3+8JFZ1 | SCREW                   | [M]     |
| 50       | XTW3+12T    | SCREW                   | [M]     |
| 51       | XTW3+15T    | SCREW                   | [M]     |

## 22.4. Electrical Parts List

| Ref. No. | Part No.     | Part Name & Description                 | Remarks   |
|----------|--------------|-----------------------------------------|-----------|
|          |              | INTEGRATED CIRCUITS                     |           |
|          | REPX0437B    | CD SERVO P.C.B. (SIDE A & B)            | [M] (RTL) |
|          | REPX0439B    | MAIN P.C.B                              | [M] (RTL) |
|          | REPX0382D    | PANEL P.C.B                             | [M] (RTL) |
|          | REPX0382D    | TACT SWITCH P.C.B                       | [M] (RTL) |
|          | REPX0331A    | DECK P.C.B                              | [M] (RTL) |
|          | REPX0321B    | DECK MECHANISM P.C.B                    | [M] (RTL) |
|          | REPX0440B    | POWER P.C.B                             | [M] (RTL) |
|          | REPX0327M    | TRANSFORMER P.C.B                       | [M] (RTL) |
|          | REP2578A-N   | CD LOADING P.C.B                        | [M] (RTL) |
|          | REP2578A-N   | CD DETECT P.C.B                         | [M] (RTL) |
|          | REP2578A-N   | SPINDLE POSITION P.C.B                  | [M] (RTL) |
|          | REPX0343B    | VCD P.C.B (SIDE A & B)                  | [M] (RTL) |
|          |              | INTEGRATED CIRCUITS                     |           |
| IC1      | C0GAM0000005 | IC MOTOR DRIVE                          | [M]       |
| IC600    | C2BBGF000579 | IC MICROPROCESSOR                       | [M]       |
| IC601    | C1BB00000574 | IC I/O EXPANDER                         | [M]       |
| IC603    | C1BB00000086 | IC SPECTRUM ANALYSER                    | [M]       |
| IC900    | C1BB00000716 | IC ECHO                                 | [M]       |
| IC951    | CNB13030R2AU | IC PHOTO INTERRUPTER                    | [M]       |
| IC971    | CNB13030R2AU | IC PHOTO INTERRUPTER                    | [M]       |
| IC1001   | AN7348S-E1   | IC P.B EQ/REC AMP/ ALC/TPS AMP          | [M]       |
| IC1004   | C1AA00000612 | IC R/P SELECT                           | [M]       |
| IC1101   | LA1833NMNTLM | IC FM/AM IF AMP/ DET/AM OSC MIX/ FM MPX | [M]       |
| IC1102   | LC72131MDTRM | IC PLL FREQUENCY SYNTHESIZER            | [M]       |
| IC2100   | C3ABMG000160 | IC 16M DRAM                             | [M]       |
| IC2120   | C3FBJC000057 | IC FLASH ROM                            | [M]       |
| IC2300   | C1AB00001854 | IC DSP                                  | [M]       |
| IC2350   | C1AB00001855 | IC VCD AUDIO/VIDEO DECODER              | [M]       |
| IC2360   | C0ABBB000126 | IC OP-AMP                               | [M]       |
| IC2700   | C0CBCAA00003 | IC 2.8V REGULATOR                       | [M]       |
| IC2801   | MN101C30AEB  | IC MECHACON                             | [M]       |
| IC2802   | C0JBAZ001229 | IC 3V - 5V LEVEL SHIFT                  | [M]       |
| IC2804   | C0DAAHG00007 | IC REGULATOR                            | [M]       |
| IC2900   | C1BB00000747 | IC ASP                                  | [M]       |

| Ref. No. | Part No.     | Part Name & Description                                                     | Remarks |
|----------|--------------|-----------------------------------------------------------------------------|---------|
| IC2901   | C0AABB000117 | IC HEADPHONE AMP                                                            | [M]     |
| IC2903   | KIA4558FEL   | IC DUAL OP AMP                                                              | [M]     |
| IC5801   | RSN315H42B-P | IC POWER HIC                                                                | [M]     |
| IC7001   | AN22004A-NF  | IC SERVO AMP                                                                | [M]     |
| IC7002   | MN662790RSC  | IC SERVO PROCESSOR/ DIGITAL SIGNAL PROCESSOR/ DIGITAL FILTER/ D/A CONVERTER | [M]     |
| IC7003   | AN8739SBTE2  | IC FOCUS COIL/ TRACKING COIL/ TRAVERSE MOTOR/ SPINDLE MOTOR DRIVE           | [M]     |
|          |              | TRANSISTORS                                                                 |         |
| Q1       | B1GACFGG0004 | TRANSISTOR                                                                  | [M]     |
| Q600     | B1GACFLL0007 | TRANSISTOR                                                                  | [M]     |
| Q603     | B1ACCF000063 | TRANSISTOR                                                                  | [M]     |
| Q604     | B1ACCF000063 | TRANSISTOR                                                                  | [M]     |
| Q605     | KRC102MTA    | TRANSISTOR                                                                  | [M]     |
| Q606     | KTC3199GRTA  | TRANSISTOR                                                                  | [M]     |
| Q607     | 2SC1740SSTA  | TRANSISTOR                                                                  | [M]     |
| Q608     | B1GCCFJJ0015 | TRANSISTOR                                                                  | [M]     |
| Q609     | B1GCCFJJ0015 | TRANSISTOR                                                                  | [M]     |
| Q610     | KTC3199GRTA  | TRANSISTOR                                                                  | [M]     |
| Q611     | KTC3199GRTA  | TRANSISTOR                                                                  | [M]     |
| Q612     | KTC3199GRTA  | TRANSISTOR                                                                  | [M]     |
| Q613     | KTC3199GRTA  | TRANSISTOR                                                                  | [M]     |
| Q614     | KTA12710YTA  | TRANSISTOR                                                                  | [M]     |
| Q615     | KTA12710YTA  | TRANSISTOR                                                                  | [M]     |
| Q900     | 2SC1740SSTA  | TRANSISTOR                                                                  | [M]     |
| Q950     | B1BACD000017 | TRANSISTOR                                                                  | [M]     |
| Q951     | 2SB621ARSTA  | TRANSISTOR                                                                  | [M]     |
| Q952     | KRC102MTA    | TRANSISTOR                                                                  | [M]     |
| Q953     | B1AAGC000007 | TRANSISTOR                                                                  | [M]     |
| Q954     | B1AAGC000007 | TRANSISTOR                                                                  | [M]     |
| Q1001    | B1ABCF000131 | TRANSISTOR                                                                  | [M]     |
| Q1003    | B1AAGC000007 | TRANSISTOR                                                                  | [M]     |
| Q1004    | B1AAGC000007 | TRANSISTOR                                                                  | [M]     |
| Q1005    | B1AAGC000007 | TRANSISTOR                                                                  | [M]     |
| Q1007    | B1ABCF000131 | TRANSISTOR                                                                  | [M]     |
| Q1012    | B1ABEB000001 | TRANSISTOR                                                                  | [M]     |
| Q1013    | B1ABEB000001 | TRANSISTOR                                                                  | [M]     |
| Q1014    | B1ABCF000011 | TRANSISTOR                                                                  | [M]     |

| Ref. No. | Part No.      | Part Name & Description | Remarks |
|----------|---------------|-------------------------|---------|
| Q1015    | B1ABCF000011  | TRANSISTOR              | [M]     |
| Q1016    | B1GDCFJJ0023  | TRANSISTOR              | [M]     |
| Q1017    | B1AARC000002  | TRANSISTOR              | [M]     |
| Q1020    | B1ABEB000001  | TRANSISTOR              | [M]     |
| Q1021    | B1ABEB000001  | TRANSISTOR              | [M]     |
| Q1101    | 2SC2058SPTA   | TRANSISTOR              | [M]     |
| Q1102    | 2SC2058SPTA   | TRANSISTOR              | [M]     |
| Q1106    | B1GCCFJJ0015  | TRANSISTOR              | [M]     |
| Q2101    | B1ABCF000131  | TRANSISTOR              | [M]     |
| Q2102    | B1ABEB000001  | TRANSISTOR              | [M]     |
| Q2103    | B1ABEB000001  | TRANSISTOR              | [M]     |
| Q2104    | B1ABCF000131  | TRANSISTOR              | [M]     |
| Q2105    | B1ABCF000131  | TRANSISTOR              | [M]     |
| Q2106    | B1ABEB000001  | TRANSISTOR              | [M]     |
| Q2107    | B1ABEB000001  | TRANSISTOR              | [M]     |
| Q2701    | B1ABCF000131  | TRANSISTOR              | [M]     |
| Q2702    | B1ABEB000001  | TRANSISTOR              | [M]     |
| Q2703    | B1ABEB000001  | TRANSISTOR              | [M]     |
| Q2704    | B1ABCF000131  | TRANSISTOR              | [M]     |
| Q2705    | B1ABCF000131  | TRANSISTOR              | [M]     |
| Q2706    | B1ABEB000001  | TRANSISTOR              | [M]     |
| Q2707    | B1ABEB000001  | TRANSISTOR              | [M]     |
| Q2802    | B1GBCFGG0023  | TRANSISTOR              | [M]     |
| Q2810    | KTA12710YTA   | TRANSISTOR              | [M]     |
| Q2812    | B1GBCFJJ0039  | TRANSISTOR              | [M]     |
| Q2813    | B1GBCFJJ0039  | TRANSISTOR              | [M]     |
| Q2814    | KTC3199GRTA   | TRANSISTOR              | [M]     |
| Q2815    | KTA12710YTA   | TRANSISTOR              | [M]     |
| Q2816    | KRC102MTA     | TRANSISTOR              | [M]     |
| Q2901    | B1GDCFJJ0023  | TRANSISTOR              | [M]     |
| Q2902    | B1ABCF000131  | TRANSISTOR              | [M]     |
| Q2911    | B1GDCFJJ0023  | TRANSISTOR              | [M]     |
| Q2923    | B1GBCFJJ0039  | TRANSISTOR              | [M]     |
| Q2924    | KTA12710YTA   | TRANSISTOR              | [M]     |
| Q2970    | B1ADCF000001  | TRANSISTOR              | [M]     |
| Q2971    | 2SD0592ARA    | TRANSISTOR              | [M]     |
| Q2972    | B1ADCF000001  | TRANSISTOR              | [M]     |
| Q2973    | 2SD0592ARA    | TRANSISTOR              | [M]     |
| Q2974    | B1ADCF000001  | TRANSISTOR              | [M]     |
| Q2975    | B1ABCF000011  | TRANSISTOR              | [M]     |
| Q5801    | B1BACG000009  | TRANSISTOR              | [M]     |
| Q5802    | B1BCCG000021  | TRANSISTOR              | [M]     |
| Q5803    | B1BACG000009  | TRANSISTOR              | [M]     |
| Q5804    | B1BCCG000021  | TRANSISTOR              | [M]     |
| Q5805    | B1ACCF000063  | TRANSISTOR              | [M]     |
| Q5806    | B1GCCFGA0005  | TRANSISTOR              | [M]     |
| Q5807    | KTC3199GRTA   | TRANSISTOR              | [M]     |
| Q5808    | B1BACD000017  | TRANSISTOR              | [M]     |
| Q5812    | B1AAGC000007  | TRANSISTOR              | [M]     |
| Q5813    | B1AAGC000007  | TRANSISTOR              | [M]     |
| Q5814    | B1AAGC000007  | TRANSISTOR              | [M]     |
| Q7601    | B1ADCF000001  | TRANSISTOR              | [M]     |
| Q7602    | B1GBCFGH0001  | TRANSISTOR              | [M]     |
| Q7603    | B1GDCFJGH0002 | TRANSISTOR              | [M]     |
|          |               |                         |         |
|          |               | DIODES                  |         |
|          |               |                         |         |
| D1       | GP1894        | PHOTO INTERRUPTOR       | [M]     |
| D2       | B0BA4R600003  | DIODE                   | [M]     |
| D600     | SLI325URCT31  | DIODE                   | [M]     |
| D602     | B0AACK000004  | DIODE                   | [M]     |
| D609     | B3ADA0000129  | DIODE                   | [M]     |
| D610     | MA2C72300F    | DIODE                   | [M]     |
| D611     | B0ACCE000003  | DIODE                   | [M]     |
| D612     | B0ACCE000003  | DIODE                   | [M]     |
| D613     | B0BA5R600016  | DIODE                   | [M]     |
| D614     | B0AACK000004  | DIODE                   | [M]     |
| D617     | B0AACK000004  | DIODE                   | [M]     |
| D906     | B0BA5R000004  | DIODE                   | [M]     |
| D950     | B0EAMM000038  | DIODE                   | [M]     |
| D951     | B0EAMM000038  | DIODE                   | [M]     |
| D951     | MA2C16500E    | DIODE                   | [M]     |
| D952     | B0EAMM000038  | DIODE                   | [M]     |
| D953     | B0EAMM000038  | DIODE                   | [M]     |

| Ref. No. | Part No.      | Part Name & Description | Remarks |
|----------|---------------|-------------------------|---------|
| D954     | B0EAKM000125  | DIODE                   | [M]     |
| D955     | B0EAKM000125  | DIODE                   | [M]     |
| D956     | B0EAKM000125  | DIODE                   | [M]     |
| D957     | B0EAKM000125  | DIODE                   | [M]     |
| D958     | B0EAKM000125  | DIODE                   | [M]     |
| D959     | B0EAKM000125  | DIODE                   | [M]     |
| D960     | B0BA02400030  | DIODE                   | [M]     |
| D961     | B0EAKM000122  | DIODE                   | [M]     |
| D962     | B0EAKM000122  | DIODE                   | [M]     |
| D963     | B0EAKM000122  | DIODE                   | [M]     |
| D964     | B0BA7R000005  | DIODE                   | [M]     |
| D965     | B0EAKM000122  | DIODE                   | [M]     |
| D966     | B0EAKM000122  | DIODE                   | [M]     |
| D967     | B0EAKM000122  | DIODE                   | [M]     |
| D968     | B0AACK000004  | DIODE                   | [M]     |
| D971     | MA2C16500E    | DIODE                   | [M]     |
| D1003    | B0ACCK000005  | DIODE                   | [M]     |
| D1004    | B0BC3R700004  | DIODE                   | [M]     |
| D1101    | B0BC5R000009  | DIODE                   | [M]     |
| D2101    | MA2J72800L    | DIODE                   | [M]     |
| D2350    | MA2J72800L    | DIODE                   | [M]     |
| D2351    | MA2J72800L    | DIODE                   | [M]     |
| D2701    | MA2J72800L    | DIODE                   | [M]     |
| D2801    | B0JCPC000004  | DIODE                   | [M]     |
| D2810    | B0EAKM000117  | DIODE                   | [M]     |
| D2811    | MA2J72800L    | DIODE                   | [M]     |
| D2812    | MA2J72800L    | DIODE                   | [M]     |
| D2901    | B0BC7R500001  | DIODE                   | [M]     |
| D2902    | B0ACCK000005  | DIODE                   | [M]     |
| D2903    | B0ADCCJ000020 | DIODE                   | [M]     |
| D2904    | B0ADCCJ000020 | DIODE                   | [M]     |
| D2905    | B0ADCCJ000020 | DIODE                   | [M]     |
| D2906    | B0EAKM000117  | DIODE                   | [M]     |
| D2924    | B0EAKM000117  | DIODE                   | [M]     |
| D2970    | B0ACCK000005  | DIODE                   | [M]     |
| D2971    | B0BC01000014  | DIODE                   | [M]     |
| D2974    | B0EAKM000117  | DIODE                   | [M]     |
| D2975    | B0ACCK000005  | DIODE                   | [M]     |
| D2976    | B0ACCK000005  | DIODE                   | [M]     |
| D2977    | B0ACCK000005  | DIODE                   | [M]     |
| D5801    | B0BA9R600002  | DIODE                   | [M]     |
| D5802    | B0BA01500003  | DIODE                   | [M]     |
| D5803    | B0BA01500003  | DIODE                   | [M]     |
| D5804    | B0AACK000004  | DIODE                   | [M]     |
| D5805    | B0EAKM000125  | DIODE                   | [M]     |
| D5806    | B0EAKM000125  | DIODE                   | [M]     |
| D5807    | B0EAKM000125  | DIODE                   | [M]     |
| D5808    | B0BA5R600016  | DIODE                   | [M]     |
| D5809    | B0BA9R600002  | DIODE                   | [M]     |
| D5813    | B0AACK000004  | DIODE                   | [M]     |
| D5814    | B0AACK000004  | DIODE                   | [M]     |
|          |               |                         |         |
|          |               | VARIABLE RESISTORS      |         |
|          |               |                         |         |
| VR600    | EVEKE2F3524M  | VOLUME JOG              | [M]     |
| VR602    | EVUF2AF25B14  | MIC VOLUME              | [M]     |
|          |               |                         |         |
|          |               | SWITCHES                |         |
|          |               |                         |         |
| S601     | EVQ21405R     | SW POWER                | [M]     |
| S602     | EVQ21405R     | SW DECK 1/2             | [M]     |
| S603     | EVQ21405R     | SW REC                  | [M]     |
| S604     | EVQ21405R     | SW OPEN/CLOSE           | [M]     |
| S605     | EVQ21405R     | SW CD1                  | [M]     |
| S606     | EVQ21405R     | SW CD2                  | [M]     |
| S607     | EVQ21405R     | SW CD3                  | [M]     |
| S608     | EVQ21405R     | SW CD4                  | [M]     |
| S609     | EVQ21405R     | SW CD5                  | [M]     |
| S610     | EVQ21405R     | SW SSEQ                 | [M]     |
| S611     | EVQ21405R     | SW SEQ                  | [M]     |
| S901     | EVQ21405R     | SW REW                  | [M]     |
| S902     | EVQ21405R     | SW TUNER                | [M]     |
| S903     | EVQ21405R     | SW CD PLAY              | [M]     |
| S904     | EVQ21405R     | SW FF                   | [M]     |

| Ref. No. | Part No.     | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| S905     | EVQ21405R    | SW STOP                 | [M]     |
| S906     | EVQ21405R    | SW DECK 2 OPEN          | [M]     |
| S907     | EVQ21405R    | SW TAPE                 | [M]     |
| S908     | EVQ21405R    | SW AUX                  | [M]     |
| S909     | EVQ21405R    | SW DECK 1 OPEN          | [M]     |
| S910     | EVQ21405R    | SW DISPLAY              | [M]     |
| S951     | RSH1A018-3U  | SW MODE                 | [M]     |
| S952     | RSH1A019-2U  | SW HALF                 | [M]     |
| S971     | RSH1A018-3U  | SW MODE                 | [M]     |
| S972     | RSH1A019-2U  | SW HALF                 | [M]     |
| S974     | RSH1A019-2U  | SW RECINH_R             | [M]     |
| S975     | RSH1A019-2U  | SW RECINH_F             | [M]     |
| S7201    | RSH1A043-U   | SW REST                 | [M]     |
|          |              |                         |         |
| SW1      | RSH1A032-U   | SW PUSH                 | [M]     |
| SW2      | RSH1A032-U   | SW PUSH                 | [M]     |
| SW3      | RSH1A005-1U  | SW OPEN                 | [M]     |
| SW4      | RSH1A91ZA-A  | SW CD                   | [M]     |
| SW5      | K0L1BB000005 | SW LOAD                 | [M]     |
| SW2800   | K0D112B00127 | SW                      | [M]     |
|          |              |                         |         |
|          |              | CONNECTORS              |         |
|          |              |                         |         |
| CN1      | K1MN14A00049 | 14P FFC CONNECTOR       | [M]     |
| CN900    | RJT066H08B   | 8P CONNECTOR            | [M]     |
| CN950    | RJT119W09V   | 9P CONNECTOR            | [M]     |
| CN951    | K1KA09A00047 | 9P CONNECTOR            | [M]     |
| CN971    | K1MN10B00104 | 10P FFC CONNECTOR       | [M]     |
| CN1001   | K1MN14B00058 | 14P CONNETOR            | [M]     |
| CN2000   | K1KA20B00022 | 20P CONNECTOR           | [M]     |
| CN2801   | K1MN19A00026 | FFC CONNECTOR           | [M]     |
| CN2802   | K1KA20A00108 | 20P CONNECTOR           | [M]     |
| CN2900   | K1KB12B00036 | 12P CONNECTOR           | [M]     |
| CN2901   | K1KB12B00036 | 12P CONNECTOR           | [M]     |
| CN2902   | K1MN30A00046 | 30P FFC CONNECTOR       | [M]     |
| CN2903   | RJS1A9417    | CONNECTOR               | [M]     |
| CN2904   | RJS1A9414-1  | 14P CONNECTOR           | [M]     |
| CN2905   | K1KA02A00008 | 2P CONNECTOR            | [M]     |
| CN2909   | RJS1A9414-1  | 14P CONNECTOR           | [M]     |
| CN5800   | K1KA12A00184 | 12P CONNECTOR           | [M]     |
| CN5801   | K1KA12A00184 | 12P CONNECTOR           | [M]     |
| CN7001   | RJS2A8616    | 16P FPC CONNECTOR       | [M]     |
| CN7002   | RJS1A6719-1Q | 19P FFC CONNECTOR       | [M]     |
|          |              |                         |         |
| CP600    | K1MN10B00104 | 10P FFC CONNECTOR       | [M]     |
| CP601    | RJS1A9417    | CONNECTOR               | [M]     |
| CP602    | K1MN30A00046 | 30P FFC CONNECTOR       | [M]     |
| CP900    | RJU066H08    | 8P CONNECTOR            | [M]     |
|          |              |                         |         |
| CS1001   | RJS1A6805-J  | 5P CONNECTOR            | [M]     |
| CS1002   | RJS1A6805-J  | 5P CONNECTOR            | [M]     |
|          |              |                         |         |
|          |              | COILS & TRANSFORMERS    |         |
|          |              |                         |         |
| L600     | RLQB3R3KT-1Y | COIL                    | [M]     |
| L601     | G0C100JA0030 | INDUCTOR                | [M]     |
| L602     | RLQZP101KT-Y | AXIAL COIL              | [M]     |
| L603     | RLQZP101KT-Y | AXIAL COIL              | [M]     |
| L604     | RLQZP100KT-Y | AXIAL COIL              | [M]     |
| L605     | J0JKB0000020 | EMI BEAD CORE           | [M]     |
| L607     | J0JKB0000020 | EMI BEAD CORE           | [M]     |
| L608     | G0C100JA0030 | INDUCTOR                | [M]     |
| L609     | RLQZP100KT-Y | AXIAL COIL              | [M]     |
| L610     | G0C100JA0030 | INDUCTOR                | [M]     |
| L611     | J0JKB0000020 | EMI BEAD CORE           | [M]     |
| L612     | J0JKB0000020 | EMI BEAD CORE           | [M]     |
| L634     | J0JKB0000020 | EMI BEAD CORE           | [M]     |
| L950     | RLQZ371      | LINE FILTER             | [M] △   |
| L1001    | G0C470JA0030 | RF CHOKE COIL           | [M]     |
| L1002    | 7L1A62N      | BIAS OSC COIL           | [M]     |
| L2302    | J0JCC0000119 | CHIP INDUCTOR           | [M]     |
| L2303    | J0JCC0000119 | CHIP INDUCTOR           | [M]     |
| L2304    | J0JCC0000119 | CHIP INDUCTOR           | [M]     |
| L2305    | G1C100K00020 | CHIP INDUCTOR           | [M]     |

| Ref. No. | Part No.     | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| L2306    | G1C100K00020 | CHIP INDUCTOR           | [M]     |
| L2307    | G1C100K00020 | CHIP INDUCTOR           | [M]     |
| L2308    | J0JCC0000119 | CHIP INDUCTOR           | [M]     |
| L2309    | J0JCC0000119 | CHIP INDUCTOR           | [M]     |
| L2310    | J0JCC0000119 | CHIP INDUCTOR           | [M]     |
| L2311    | J0JCC0000119 | CHIP INDUCTOR           | [M]     |
| L2350    | G1C2R7K00005 | CHIP INDUCTOR           | [M]     |
| L2359    | G1C3R9K00004 | CHIP INDUCTOR           | [M]     |
| L2800    | G0A200D00002 | COIL                    | [M]     |
| L2801    | G0ZZ00001930 | COIL                    | [M]     |
| L2802    | G0A200D00002 | COIL                    | [M]     |
| L2803    | G0A200D00002 | COIL                    | [M]     |
| L2804    | ELELN470KA   | INDUCTOR                | [M]     |
| L2810    | G0A200D00002 | COIL                    | [M]     |
| L2811    | G0A200D00002 | COIL                    | [M]     |
| L2812    | J0JKB0000020 | EMI BEAD CORE           | [M]     |
| L2813    | G0A200D00002 | COIL                    | [M]     |
| L2815    | J0JKB0000020 | EMI BEAD CORE           | [M]     |
| L2850    | VLP0145-T    | CHIP INDUCTOR           | [M]     |
| L2851    | VLP0145-T    | CHIP INDUCTOR           | [M]     |
| L2852    | VLP0145-T    | CHIP INDUCTOR           | [M]     |
| L2853    | VLP0145-T    | CHIP INDUCTOR           | [M]     |
| L2854    | VLP0145-T    | CHIP INDUCTOR           | [M]     |
| L2857    | J0JKB0000020 | EMI BEAD CORE           | [M]     |
| L2858    | VLP0145-T    | CHIP INDUCTOR           | [M]     |
| L2860    | VLP0145-T    | CHIP INDUCTOR           | [M]     |
| L2901    | J0JBC0000019 | CHIP INDUCTOR           | [M]     |
| L2902    | J0JBC0000019 | CHIP INDUCTOR           | [M]     |
| L2974    | ELELN470KA   | INDUCTOR                | [M]     |
| L5201    | G0AR76Y00001 | CHOKE COIL              | [M]     |
| L5202    | G0AR76Y00001 | CHOKE COIL              | [M]     |
| L5401    | G0AR76Y00001 | CHOKE COIL              | [M]     |
| L5402    | G0AR76Y00001 | CHOKE COIL              | [M]     |
|          |              |                         |         |
| T950     | ETP76VST62BA | MAIN TRANSFORMER        | [M] △   |
| T951     | G4C2AAJ00005 | BACK-UP TRANSFORMER     | [M] △   |
|          |              |                         |         |
|          |              | COMPONENT COMBINATIONS  |         |
|          |              |                         |         |
| Z600     | B3RAB0000025 | REMOTE SENSOR           | [M]     |
| Z950     | ERZV10V511CS | ZENER                   | [M] △   |
| Z971     | RGSD12A1445T | RADA RESISTOR           | [M]     |
| Z1101    | RLA2Z007-T   | COIL                    | [M]     |
| Z1102    | G2BAE0000003 | AM IF BLOCK             | [M]     |
| Z1120    | ENV17290GLY  | FM TUNER PACK           | [M]     |
|          |              |                         |         |
|          |              | CERAMIC FILTERS         |         |
|          |              |                         |         |
| CF1201   | RLFFETNGD01L | CERAMIC FILTER          | [M]     |
| CF1202   | RLFFETNGD01L | CERAMIC FILTER          | [M]     |
|          |              |                         |         |
|          |              | RELAY                   |         |
|          |              |                         |         |
| RL950    | RSY0040M-0   | PRIMARY RELAY           | [M] △   |
|          |              |                         |         |
|          |              | OSCILLATORS             |         |
|          |              |                         |         |
| X601     | RSXZ4M19D01T | CERAMIC OSCILLATOR      | [M]     |
| X602     | H0A327200073 | CERAMIC OSCILLATOR      | [M]     |
| X1102    | RLFDFT22DD   | DISCRIMINATOR           | [M]     |
| X1103    | RSXC7M20S05T | CRYSTAL OSCILLATOR      | [M]     |
| X2350    | H0J270500013 | CRYSTAL RESONATOR       | [M]     |
| X2801    | RSXY8M00D01T | CERAMIC RESONATOR       | [M]     |
| X7201    | H0H338500001 | CRYSTAL OSCILLATOR      | [M]     |
|          |              |                         |         |
|          |              | DISPLAY TUBE            |         |
|          |              |                         |         |
| FL600    | A2BD00000061 | FL DISPLAY              | [M]     |
|          |              |                         |         |
|          |              | FUSE                    |         |
|          |              |                         |         |
| F1       | K5D162BK0005 | 1.6A FUSE               | [M] △   |
|          |              |                         |         |
|          |              | FUSE HOLDERS            |         |

| Ref. No. | Part No.     | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| FC1      | EYF52BC      | FUSE HOLDER             | [M]     |
| FC2      | EYF52BC      | FUSE HOLDER             | [M]     |
|          |              | FUSE PROTECTOR          |         |
| FP950    | K5G402AA0002 | FUSE PROTECTOR          | [M] △   |
| FP951    | K5G102AA0002 | FUSE PROTECTOR          | [M] △   |
| FP5833   | K5G400A00001 | FUSABLE RESISTOR        | [M] △   |
|          |              | HOLDERS                 |         |
| H600     | K1YZ09000002 | WIRE HOLDER             | [M]     |
| H5950    | RJS1A5509    | 9P CABLE HOLDER         | [M]     |
|          |              | JACKS                   |         |
| JK600    | K2HC103A0023 | JK SMALL SIGN           | [M]     |
| JK601    | K2HC103A0023 | JK SMALL SIGN           | [M]     |
| JK900    | K2HC103A0023 | JK SMALL SIGN           | [M]     |
| JK950    | K2AA2B000004 | JK AC INLET             | [M] △   |
| JK1101   | RJH8304N     | JK ANTENNA              | [M]     |
| JK2800   | SJFD7-6      | JK VIDEO OUT            | [M]     |
| JK2905   | RJH2405N-2   | JK RCA                  | [M]     |
| JK5951   | K4BC04B00050 | JK TERMINAL SPEAKER     | [M]     |
| JK5952   | K4BC04B00046 | JK SPEAKER              | [M]     |
|          |              | EARTH TERMINALS         |         |
| E5800    | SNE1004-2    | EARTH TERMINAL          | [M]     |
| E5801    | RSQX0001-1   | EARTH PLATE             | [M]     |
|          |              | WIRES                   |         |
| W1       | REZ1023-1    | 4P WIRE                 | [M]     |
| W2       | REZ1024      | 3P WIRE                 | [M]     |
| W600     | REXX0324     | 9P FLAT WIRE            | [M]     |
| W1002    | RWJ0102050CK | M/MECHA MOTOR WIRE      | [M]     |
| W5950    | REXX0325     | 9P FLAT WIRE            | [M]     |
|          |              | CHIP RESISTORS          |         |
| W7002    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| W7015    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| W7023    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| W7025    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| W7028    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| W7030    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| W7031    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| W7032    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| W7033    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| W7034    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| W7035    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| W7036    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| W7040    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| W7046    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
|          |              | RESISTORS               |         |
| R1       | ERDS2TJ102T  | 1K 1/4W                 | [M]     |
| R600     | ERDS2TJ472T  | 4.7K 1/4W               | [M]     |
| R601     | ERDS2TJ102T  | 1K 1/4W                 | [M]     |
| R602     | ERDS2TJ102T  | 1K 1/4W                 | [M]     |
| R603     | ERDS2TJ122T  | 1.2K 1/4W               | [M]     |
| R604     | ERDS2TJ182T  | 1.8K 1/4W               | [M]     |
| R605     | ERDS2TJ222T  | 2.2K 1/4W               | [M]     |
| R606     | ERDS2TJ272T  | 2.7K 1/4W               | [M]     |
| R607     | ERDS2TJ472T  | 4.7K 1/4W               | [M]     |
| R608     | ERDS2TJ682T  | 6.8K 1/4W               | [M]     |
| R609     | ERDS2TJ103T  | 10K 1/4W                | [M]     |
| R610     | ERDS2TJ223T  | 22K 1/4W                | [M]     |
| R611     | ERDS2TJ683T  | 68K 1/4W                | [M]     |
| R612     | ERDS2TJ101T  | 100 1/4W                | [M]     |
| R613     | ERDS2TJ102T  | 1K 1/4W                 | [M]     |

| Ref. No. | Part No.     | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| R614     | ERDS2TJ102T  | 1K 1/4W                 | [M]     |
| R615     | ERDS2TJ101T  | 100 1/4W                | [M]     |
| R616     | ERDS2TJ101T  | 100 1/4W                | [M]     |
| R617     | ERDS2TJ472T  | 4.7K 1/4W               | [M]     |
| R618     | ERDS2TJ102T  | 1K 1/4W                 | [M]     |
| R619     | ERDS2TJ472T  | 4.7K 1/4W               | [M]     |
| R620     | ERDS2TJ472T  | 4.7K 1/4W               | [M]     |
| R621     | ERDS2TJ472T  | 4.7K 1/4W               | [M]     |
| R622     | ERDS2TJ472T  | 4.7K 1/4W               | [M]     |
| R623     | ERDS2TJ472T  | 4.7K 1/4W               | [M]     |
| R626     | ERDS2TJ102T  | 1K 1/4W                 | [M]     |
| R627     | ERDS2TJ223T  | 22K 1/4W                | [M]     |
| R628     | ERDS2TJ101T  | 100 1/4W                | [M]     |
| R629     | ERDS2TJ101T  | 100 1/4W                | [M]     |
| R630     | ERDS2TJ681T  | 680 1/4W                | [M]     |
| R631     | ERDS2TJ473T  | 47K 1/4W                | [M]     |
| R632     | ERDS2TJ103T  | 10K 1/4W                | [M]     |
| R634     | ERDS2TJ101T  | 100 1/4W                | [M]     |
| R635     | ERDS2TJ102T  | 1K 1/4W                 | [M]     |
| R636     | ERDS2TJ103T  | 10K 1/4W                | [M]     |
| R637     | ERDS2TJ102T  | 1K 1/4W                 | [M]     |
| R638     | ERDS2TJ471T  | 470 1/4W                | [M]     |
| R639     | ERDS2TJ223T  | 22K 1/4W                | [M]     |
| R640     | ERDS2TJ681T  | 680 1/4W                | [M]     |
| R643     | ERDS2TJ106T  | 10M 1/4W                | [M]     |
| R644     | ERDS2TJ334T  | 330K 1/4W               | [M]     |
| R645     | ERDS2TJ104T  | 100K 1/4W               | [M]     |
| R646     | ERDS2TJ104T  | 100K 1/4W               | [M]     |
| R647     | ERDS2TJ223T  | 22K 1/4W                | [M]     |
| R648     | ERDS2TJ562T  | 5.6K 1/4W               | [M]     |
| R649     | ERDS2TJ151T  | 150 1/4W                | [M]     |
| R650     | ERDS2TJ474T  | 470K 1/4W               | [M]     |
| R651     | ERDS2TJ103T  | 10K 1/4W                | [M]     |
| R652     | ERDS2TJ102T  | 1K 1/4W                 | [M]     |
| R653     | ERDS2TJ472T  | 4.7K 1/4W               | [M]     |
| R654     | ERDS2TJ474T  | 470K 1/4W               | [M]     |
| R655     | ERDS2TJ470T  | 47 1/4W                 | [M]     |
| R656     | ERD2FCVG470T | 47 1/4W                 | [M]     |
| R657     | ERD2FCVG470T | 47 1/4W                 | [M]     |
| R658     | ERDS2TJ104T  | 100K 1/4W               | [M]     |
| R659     | ERDS2TJ104T  | 100K 1/4W               | [M]     |
| R660     | ERDS2TJ104T  | 100K 1/4W               | [M]     |
| R661     | ERDS2TJ104T  | 100K 1/4W               | [M]     |
| R662     | ERDS2TJ104T  | 100K 1/4W               | [M]     |
| R663     | ERDS2TJ104T  | 100K 1/4W               | [M]     |
| R664     | ERDS2TJ104T  | 100K 1/4W               | [M]     |
| R665     | ERDS2TJ104T  | 100K 1/4W               | [M]     |
| R666     | ERDS2TJ104T  | 100K 1/4W               | [M]     |
| R667     | ERDS2TJ104T  | 100K 1/4W               | [M]     |
| R668     | ERDS2TJ104T  | 100K 1/4W               | [M]     |
| R669     | ERDS2TJ104T  | 100K 1/4W               | [M]     |
| R670     | ERDS2TJ104T  | 100K 1/4W               | [M]     |
| R671     | ERDS2TJ104T  | 100K 1/4W               | [M]     |
| R672     | ERDS2TJ104T  | 100K 1/4W               | [M]     |
| R673     | ERDS2TJ223T  | 22K 1/4W                | [M]     |
| R674     | ERDS2TJ223T  | 22K 1/4W                | [M]     |
| R675     | ERDS2TJ472T  | 4.7K 1/4W               | [M]     |
| R676     | ERDS2TJ101T  | 100 1/4W                | [M]     |
| R677     | ERDS2TJ104T  | 100K 1/4W               | [M]     |
| R680     | ERDS2TJ104T  | 100K 1/4W               | [M]     |
| R681     | ERDS2TJ103T  | 10K 1/4W                | [M]     |
| R682     | ERDS2TJ334T  | 330K 1/4W               | [M]     |
| R683     | ERDS2TJ680T  | 68 1/4W                 | [M]     |
| R684     | ERDS2TJ822T  | 8.2K 1/4W               | [M]     |
| R687     | ERDS2TJ681T  | 680 1/4W                | [M]     |
| R688     | ERDS2TJ2R7T  | 2.7 1/4W                | [M]     |
| R689     | ERDS2TJ223T  | 22K 1/4W                | [M]     |
| R690     | ERDS2TJ334T  | 330K 1/4W               | [M]     |
| R691     | ERDS2TJ102T  | 1K 1/4W                 | [M]     |
| R692     | ERDS2TJ2R7T  | 2.7 1/4W                | [M]     |
| R693     | ERDS2TJ223T  | 22K 1/4W                | [M]     |
| R694     | ERDS2TJ332T  | 3.3K 1/4W               | [M]     |
| R697     | ERDS2TJ472T  | 4.7K 1/4W               | [M]     |
| R698     | ERDS2TJ102T  | 1K 1/4W                 | [M]     |

| Ref. No. | Part No.     | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| R900     | ERDS2TJ103T  | 10K 1/4W                | [M]     |
| R901     | ERDS2TJ102T  | 1K 1/4W                 | [M]     |
| R902     | ERDS2TJ102T  | 1K 1/4W                 | [M]     |
| R903     | ERDS2TJ122T  | 1.2K 1/4W               | [M]     |
| R904     | ERDS2TJ182T  | 1.8K 1/4W               | [M]     |
| R905     | ERDS2TJ222T  | 2.2K 1/4W               | [M]     |
| R906     | ERDS2TJ272T  | 2.7K 1/4W               | [M]     |
| R907     | ERDS2TJ472T  | 4.7K 1/4W               | [M]     |
| R908     | ERDS2TJ682T  | 6.8K 1/4W               | [M]     |
| R909     | ERDS2TJ103T  | 10K 1/4W                | [M]     |
| R910     | ERDS2TJ223T  | 22K 1/4W                | [M]     |
| R911     | ERDS2TJ104T  | 100K 1/4W               | [M]     |
| R912     | ERDS2TJ473T  | 47K 1/4W                | [M]     |
| R913     | ERDS2TJ473T  | 47K 1/4W                | [M]     |
| R914     | ERDS2TJ563T  | 56K 1/4W                | [M]     |
| R915     | ERDS2TJ470T  | 47 1/4W                 | [M]     |
| R916     | ERDS2TJ104T  | 100K 1/4W               | [M]     |
| R917     | ERDS2TJ563T  | 56K 1/4W                | [M]     |
| R918     | ERDS2TJ470T  | 47 1/4W                 | [M]     |
| R919     | ERDS2TJ103T  | 10K 1/4W                | [M]     |
| R920     | ERDS2TJ103T  | 10K 1/4W                | [M]     |
| R921     | ERDS2TJ103T  | 10K 1/4W                | [M]     |
| R923     | ERDS2TJ223T  | 22K 1/4W                | [M]     |
| R924     | ERDS2TJ123T  | 12K 1/4W                | [M]     |
| R926     | ERDS2TJ101T  | 100 1/4W                | [M]     |
| R927     | ERDS2TJ101T  | 100 1/4W                | [M]     |
| R928     | ERDS2TJ223T  | 22K 1/4W                | [M]     |
| R929     | ERDS2TJ223T  | 22K 1/4W                | [M]     |
| R930     | ERDS2TJ153T  | 15K 1/4W                | [M]     |
| R931     | ERDS2TJ472T  | 4.7K 1/4W               | [M]     |
| R932     | ERDS2TJ103T  | 10K 1/4W                | [M]     |
| R933     | ERDS2TJ102T  | 1K 1/4W                 | [M]     |
| R934     | ERDS2TJ223T  | 22K 1/4W                | [M]     |
| R935     | ERDS2TJ823T  | 82K 1/4W                | [M]     |
| R936     | ERDS2TJ390T  | 39 1/4W                 | [M]     |
| R937     | ERDS2TJ222T  | 2.2K 1/4W               | [M]     |
| R938     | ERDS2TJ474T  | 470K 1/4W               | [M]     |
| R939     | ERDS2TJ472T  | 4.7K 1/4W               | [M]     |
| R940     | ERDS2TJ822T  | 8.2K 1/4W               | [M]     |
| R941     | ERDS2TJ183T  | 18K 1/4W                | [M]     |
| R951     | ERDS2TJ332T  | 3.3K 1/4W               | [M]     |
| R952     | ERDS2TJ122T  | 1.2K 1/4W               | [M]     |
| R952     | ERDS2TJ821T  | 820 1/4W                | [M]     |
| R953     | ERDS2TJ152T  | 1.5K 1/4W               | [M]     |
| R953     | ERDS2TJ393T  | 39K 1/4W                | [M]     |
| R954     | ERDS1FVJ100T | 10 1/2W                 | [M]     |
| R955     | ERDS1FVJ100T | 10 1/2W                 | [M]     |
| R956     | ERDS1FVJ100T | 10 1/2W                 | [M]     |
| R957     | ERDS2TJ103T  | 10K 1/4W                | [M]     |
| R958     | ERDS2TJ103T  | 10K 1/4W                | [M]     |
| R959     | ERD2FCVJ4R7T | 4.7 1/4W                | [M]     |
| R960     | ERDS2TJ472T  | 4.7K 1/4W               | [M]     |
| R961     | ERDS2TJ151T  | 150 1/4W                | [M]     |
| R963     | ERDS2TJ824T  | 820K 1/4W               | [M]     |
| R969     | ERDS2TJ681T  | 680 1/4W                | [M]     |
| R970     | ERDS2TJ681T  | 680 1/4W                | [M]     |
| R971     | ERDS2TJ103T  | 10K 1/4W                | [M]     |
| R972     | ERDS2TJ561T  | 560 1/4W                | [M]     |
| R972     | ERDS2TJ821T  | 820 1/4W                | [M]     |
| R973     | ERDS2TJ393T  | 39K 1/4W                | [M]     |
| R990     | ERDS2TJ390T  | 39 1/4W                 | [M]     |
| R1001    | D0GB1R0JA002 | 1 1/16W                 | [M]     |
| R1003    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R1004    | ERJ3GEYJ152V | 1.5K 1/16W              | [M]     |
| R1005    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R1006    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R1007    | ERD25FVJ4R7T | 4.7 1/4W                | [M]     |
| R1009    | D0GB183JA002 | 18K 1/16W               | [M]     |
| R1010    | D0GB183JA002 | 18K 1/16W               | [M]     |
| R1011    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R1012    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R1013    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R1014    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R1015    | ERJ3GEYJ470V | 47 1/16W                | [M]     |

| Ref. No. | Part No.     | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| R1016    | ERJ3GEYJ470V | 47 1/16W                | [M]     |
| R1017    | ERJ3GEYJ822V | 8.2K 1/16W              | [M]     |
| R1018    | D0GB392JA002 | 3.9K 1/16W              | [M]     |
| R1019    | D0GB392JA002 | 3.9K 1/16W              | [M]     |
| R1022    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R1026    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R1028    | ERJ3GEYJ822V | 8.2K 1/16W              | [M]     |
| R1029    | ERJ3GEYJ475V | 4.7M 1/16W              | [M]     |
| R1030    | D0GB101JA002 | 100 1/16W               | [M]     |
| R1031    | D0GB273JA002 | 27K 1/16W               | [M]     |
| R1032    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R1035    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R1038    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R1039    | ERJ3GEYJ153V | 15K 1/16W               | [M]     |
| R1040    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R1045    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R1046    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R1047    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R1048    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R1049    | ERJ3GEYJ105V | 1M 1/16W                | [M]     |
| R1050    | ERJ3GEYJ105V | 1M 1/16W                | [M]     |
| R1051    | ERJ3GEYJ221V | 220 1/16W               | [M]     |
| R1052    | ERJ3GEYJ221V | 220 1/16W               | [M]     |
| R1053    | ERJ3GEYJ681V | 680 1/16W               | [M]     |
| R1054    | ERJ3GEYJ681V | 680 1/16W               | [M]     |
| R1055    | ERJ3GEYJ222V | 2.2K 1/16W              | [M]     |
| R1056    | ERJ3GEYJ221V | 220 1/16W               | [M]     |
| R1057    | ERJ3GEYJ222V | 2.2K 1/16W              | [M]     |
| R1058    | D0GB272JA002 | 2.7K 1/16W              | [M]     |
| R1059    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R1060    | ERJ3GEYJ391V | 390 1/16W               | [M]     |
| R1061    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R1084    | ERJ3GEYJ222V | 2.2K 1/16W              | [M]     |
| R1085    | ERJ3GEYJ473V | 47K 1/16W               | [M]     |
| R1086    | ERJ3GEYJ222V | 2.2K 1/16W              | [M]     |
| R1087    | ERJ3GEYJ473V | 47K 1/16W               | [M]     |
| R1090    | ERJ3GEYJ221V | 220 1/16W               | [M]     |
| R1091    | ERJ3GEYJ222V | 2.2K 1/16W              | [M]     |
| R1092    | ERJ3GEYJ222V | 2.2K 1/16W              | [M]     |
| R1093    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R1094    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R1095    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R1096    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R1097    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R1098    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R1102    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R1103    | D0GB101JA002 | 100 1/16W               | [M]     |
| R1104    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R1105    | ERJ3GEYJ471V | 470 1/16W               | [M]     |
| R1106    | ERJ3GEYJ474V | 470K 1/16W              | [M]     |
| R1107    | ERJ3GEYJ331V | 330 1/16W               | [M]     |
| R1108    | ERJ3GEYJ474V | 470K 1/16W              | [M]     |
| R1109    | ERJ3GEYJ331V | 330 1/16W               | [M]     |
| R1110    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R1111    | ERJ3GEYJ391V | 390 1/16W               | [M]     |
| R1112    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R1113    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R1114    | D0GB562JA002 | 5.6K 1/16W              | [M]     |
| R1115    | ERJ3GEYJ561V | 560 1/16W               | [M]     |
| R1116    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R1117    | D0GB683JA002 | 68K 1/16W               | [M]     |
| R1118    | D0GB332JA002 | 3.3K 1/16W              | [M]     |
| R1119    | ERJ3GEYJ123V | 12K 1/16W               | [M]     |
| R1120    | ERJ3GEYJ473V | 47K 1/16W               | [M]     |
| R1121    | ERJ3GEYJ223V | 22K 1/16W               | [M]     |
| R1122    | D0GB272JA002 | 2.7K 1/16W              | [M]     |
| R1123    | D0GB683JA002 | 68K 1/16W               | [M]     |
| R1124    | ERJ3GEYJ330V | 33 1/16W                | [M]     |
| R1125    | ERJ3GEYJ471V | 470 1/16W               | [M]     |
| R1126    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R1127    | ERJ3GEYJ471V | 470 1/16W               | [M]     |
| R1128    | ERJ3GEYJ820V | 82 1/16W                | [M]     |
| R1129    | D0GB273JA002 | 27K 1/16W               | [M]     |
| R1130    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |



| Ref. No. | Part No.     | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| R1131    | ERJ3GEYJ680V | 68 1/16W                | [M]     |
| R1132    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R1133    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R1134    | ERJ3GEYJ471V | 470 1/16W               | [M]     |
| R1135    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R1136    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R1137    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R1138    | D0GB332JA002 | 3.3K 1/16W              | [M]     |
| R1141    | ERJ3GEYJ682V | 6.8K 1/16W              | [M]     |
| R1142    | ERJ3GEYJ682V | 6.8K 1/16W              | [M]     |
| R1143    | ERJ3GEYJ223V | 22K 1/16W               | [M]     |
| R1144    | D0GB121JA002 | 120 1/16W               | [M]     |
| R1145    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R1146    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R1151    | ERJ3GEYJ820V | 82 1/16W                | [M]     |
| R1152    | ERJ3GEYJ000V | 0 1/16W                 | [M]     |
| R2101    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R2102    | D0GB332JA002 | 3.3K 1/16W              | [M]     |
| R2103    | D0GB1R0JA002 | 1 1/16W                 | [M]     |
| R2104    | ERJ3GEYJ330V | 33 1/16W                | [M]     |
| R2105    | ERJ3GEYJ330V | 33 1/16W                | [M]     |
| R2106    | ERJ3GEYJ330V | 33 1/16W                | [M]     |
| R2107    | ERJ3GEYJ330V | 33 1/16W                | [M]     |
| R2108    | D0GB332JA002 | 3.3K 1/16W              | [M]     |
| R2109    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R2110    | D0GB562JA002 | 5.6K 1/16W              | [M]     |
| R2111    | D0GB562JA002 | 5.6K 1/16W              | [M]     |
| R2112    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R2113    | ERJ3GEYJ473V | 47K 1/16W               | [M]     |
| R2114    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R2115    | ERJ3GEYJ473V | 47K 1/16W               | [M]     |
| R2116    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R2117    | ERJ3GEYJ822V | 8.2K 1/16W              | [M]     |
| R2118    | D0GB563JA002 | 56K 1/16W               | [M]     |
| R2119    | D0GB122JA019 | 1.2K 1/16W              | [M]     |
| R2120    | ERJ3GEYJ152V | 1.5K 1/16W              | [M]     |
| R2121    | D0GB393JA002 | 39K 1/16W               | [M]     |
| R2122    | ERJ3GEYJ000V | 0 1/16W                 | [M]     |
| R2122    | ERJ3GEYJ681V | 680 1/16W               | [M]     |
| R2123    | D0GB392JA002 | 3.9K 1/16W              | [M]     |
| R2124    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R2125    | ERJ3GEYJ473V | 47K 1/16W               | [M]     |
| R2126    | D0GB272JA002 | 2.7K 1/16W              | [M]     |
| R2127    | ERJ3GEYJ473V | 47K 1/16W               | [M]     |
| R2128    | ERJ3GEYJ222V | 2.2K 1/16W              | [M]     |
| R2129    | ERJ3GEYJ682V | 6.8K 1/16W              | [M]     |
| R2130    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R2131    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R2132    | D0GB332JA002 | 3.3K 1/16W              | [M]     |
| R2133    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R2134    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R2135    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R2136    | D0GB183JA002 | 18K 1/16W               | [M]     |
| R2137    | D0GB183JA002 | 18K 1/16W               | [M]     |
| R2138    | ERJ3GEYJ224V | 220K 1/16W              | [M]     |
| R2139    | ERJ3GEYJ222V | 2.2K 1/16W              | [M]     |
| R2140    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R2141    | ERJ3GEYJ123V | 12K 1/16W               | [M]     |
| R2142    | D0GB562JA002 | 5.6K 1/16W              | [M]     |
| R2143    | D0GB392JA002 | 3.9K 1/16W              | [M]     |
| R2144    | ERJ3GEYJ681V | 680 1/16W               | [M]     |
| R2145    | ERJ3GEYJ000V | 0 1/16W                 | [M]     |
| R2146    | ERJ3GEYJ473V | 47K 1/16W               | [M]     |
| R2147    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R2148    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R2149    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R2150    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R2151    | D0GB273JA002 | 27K 1/16W               | [M]     |
| R2152    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R2153    | ERJ3GEYJ473V | 47K 1/16W               | [M]     |
| R2154    | ERJ3GEYJ221V | 220 1/16W               | [M]     |
| R2155    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R2156    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R2158    | ERJ3GEYJ000V | 0 1/16W                 | [M]     |

| Ref. No. | Part No.     | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| R2159    | ERJ3GEYJ000V | 0 1/16W                 | [M]     |
| R2160    | ERJ3GEYJ000V | 0 1/16W                 | [M]     |
| R2199    | ERJ3GEYJ000V | 0 1/16W                 | [M]     |
| R2200    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R2201    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R2202    | ERJ3GEYJ223V | 22K 1/16W               | [M]     |
| R2203    | ERJ3GEYJ223V | 22K 1/16W               | [M]     |
| R2204    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R2205    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R2206    | ERJ3GEYJ221V | 220 1/16W               | [M]     |
| R2300    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R2301    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R2302    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R2303    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R2304    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R2305    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R2306    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R2307    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R2308    | ERJ3GEYJ221V | 220 1/16W               | [M]     |
| R2309    | ERJ3GEYJ221V | 220 1/16W               | [M]     |
| R2310    | ERJ3GEYJ221V | 220 1/16W               | [M]     |
| R2350    | ERJ3GEYJ330V | 33 1/16W                | [M]     |
| R2351    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R2352    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R2353    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R2354    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R2355    | D0GB271JA002 | 270 1/16W               | [M]     |
| R2356    | ERJ3GEYJ330V | 33 1/16W                | [M]     |
| R2357    | ERJ3GEYJ330V | 33 1/16W                | [M]     |
| R2358    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R2359    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R2360    | ERJ3GEYJ750V | 75 1/16W                | [M]     |
| R2400    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R2401    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R2402    | ERJ3GEYJ223V | 22K 1/16W               | [M]     |
| R2403    | ERJ3GEYJ223V | 22K 1/16W               | [M]     |
| R2404    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R2405    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R2406    | ERJ3GEYJ221V | 220 1/16W               | [M]     |
| R2701    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R2701    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R2702    | D0GB332JA002 | 3.3K 1/16W              | [M]     |
| R2702    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R2703    | D0GB1R0JA002 | 1 1/16W                 | [M]     |
| R2703    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R2704    | ERJ3GEYJ000V | 0 1/16W                 | [M]     |
| R2704    | ERJ3GEYJ330V | 33 1/16W                | [M]     |
| R2705    | ERJ3GEYJ330V | 33 1/16W                | [M]     |
| R2706    | ERJ3GEYJ330V | 33 1/16W                | [M]     |
| R2707    | ERJ3GEYJ330V | 33 1/16W                | [M]     |
| R2708    | D0GB332JA002 | 3.3K 1/16W              | [M]     |
| R2709    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R2710    | D0GB562JA002 | 5.6K 1/16W              | [M]     |
| R2711    | D0GB562JA002 | 5.6K 1/16W              | [M]     |
| R2712    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R2713    | ERJ3GEYJ473V | 47K 1/16W               | [M]     |
| R2714    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R2715    | ERJ3GEYJ473V | 47K 1/16W               | [M]     |
| R2716    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R2717    | ERJ3GEYJ822V | 8.2K 1/16W              | [M]     |
| R2718    | D0GB563JA002 | 56K 1/16W               | [M]     |
| R2719    | D0GB122JA019 | 1.2K 1/16W              | [M]     |
| R2720    | ERJ3GEYJ152V | 1.5K 1/16W              | [M]     |
| R2721    | D0GB393JA002 | 39K 1/16W               | [M]     |
| R2722    | ERJ3GEYJ681V | 680 1/16W               | [M]     |
| R2723    | D0GB392JA002 | 3.9K 1/16W              | [M]     |
| R2724    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R2725    | ERJ3GEYJ473V | 47K 1/16W               | [M]     |
| R2726    | D0GB272JA002 | 2.7K 1/16W              | [M]     |
| R2727    | ERJ3GEYJ473V | 47K 1/16W               | [M]     |
| R2728    | ERJ3GEYJ222V | 2.2K 1/16W              | [M]     |
| R2729    | ERJ3GEYJ682V | 6.8K 1/16W              | [M]     |
| R2730    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R2731    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |

| Ref. No. | Part No.     | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| R2732    | D0GB332JA002 | 3.3K 1/16W              | [M]     |
| R2733    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R2734    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R2735    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R2736    | D0GB183JA002 | 18K 1/16W               | [M]     |
| R2737    | D0GB183JA002 | 18K 1/16W               | [M]     |
| R2738    | ERJ3GEYJ224V | 220K 1/16W              | [M]     |
| R2739    | ERJ3GEYJ222V | 2.2K 1/16W              | [M]     |
| R2740    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R2741    | ERJ3GEYJ123V | 12K 1/16W               | [M]     |
| R2742    | D0GB562JA002 | 5.6K 1/16W              | [M]     |
| R2743    | D0GB392JA002 | 3.9K 1/16W              | [M]     |
| R2744    | ERJ3GEYJ681V | 680 1/16W               | [M]     |
| R2745    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2746    | ERJ3GEYJ473V | 47K 1/16W               | [M]     |
| R2747    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R2748    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R2749    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R2750    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R2751    | D0GB273JA002 | 27K 1/16W               | [M]     |
| R2752    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R2753    | ERJ3GEYJ473V | 47K 1/16W               | [M]     |
| R2754    | ERJ3GEYJ221V | 220 1/16W               | [M]     |
| R2755    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R2756    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R2758    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2759    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2760    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2799    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2801    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R2807    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R2808    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R2809    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R2810    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R2811    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2812    | ERJ3GEYJ100V | 10 1/16W                | [M]     |
| R2813    | ERJ3GEYJ100V | 10 1/16W                | [M]     |
| R2815    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R2816    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R2817    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R2818    | ERJ3GEYJ221V | 220 1/16W               | [M]     |
| R2819    | ERJ3GEYJ221V | 220 1/16W               | [M]     |
| R2820    | ERJ3GEYJ221V | 220 1/16W               | [M]     |
| R2822    | ERJ3GEYJ223V | 22K 1/16W               | [M]     |
| R2823    | ERJ3GEYJ223V | 22K 1/16W               | [M]     |
| R2824    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R2825    | D0GB101JA002 | 100 1/16W               | [M]     |
| R2826    | ERJ3GEYJ100V | 10 1/16W                | [M]     |
| R2827    | ERJ3GEYJ100V | 10 1/16W                | [M]     |
| R2828    | D0GB101JA002 | 100 1/16W               | [M]     |
| R2829    | D0GB101JA002 | 100 1/16W               | [M]     |
| R2830    | D0GB101JA002 | 100 1/16W               | [M]     |
| R2831    | D0GB101JA002 | 100 1/16W               | [M]     |
| R2832    | D0GB101JA002 | 100 1/16W               | [M]     |
| R2833    | D0GB101JA002 | 100 1/16W               | [M]     |
| R2834    | D0GB101JA002 | 100 1/16W               | [M]     |
| R2835    | D0GB101JA002 | 100 1/16W               | [M]     |
| R2836    | D0GB101JA002 | 100 1/16W               | [M]     |
| R2837    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2838    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2839    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2840    | ERJ3GEYJ182V | 1.8K 1/16W              | [M]     |
| R2841    | ERJ3GEYJ182V | 1.8K 1/16W              | [M]     |
| R2842    | ERJ3GEYJ182V | 1.8K 1/16W              | [M]     |
| R2843    | ERJ3GEYJ182V | 1.8K 1/16W              | [M]     |
| R2844    | ERJ3GEYJ182V | 1.8K 1/16W              | [M]     |
| R2845    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2846    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2847    | D0GB1R0JA002 | 1 1/16W                 | [M]     |
| R2848    | D0GB1R0JA002 | 1 1/16W                 | [M]     |
| R2849    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R2850    | ERJ3GEYJ222V | 2.2K 1/16W              | [M]     |
| R2851    | ERJ3GEYJ331V | 330 1/16W               | [M]     |
| R2852    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |

| Ref. No. | Part No.     | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| R2853    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R2901    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R2902    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R2903    | ERDS1FVJ270T | 27 1/2W                 | [M]     |
| R2904    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R2905    | ERJ3GEYJ682V | 6.8K 1/16W              | [M]     |
| R2906    | D0GB101JA002 | 100 1/16W               | [M]     |
| R2907    | ERJ3GEYJ222V | 2.2K 1/16W              | [M]     |
| R2908    | ERJ3GEYJ222V | 2.2K 1/16W              | [M]     |
| R2909    | D0GB273JA002 | 27K 1/16W               | [M]     |
| R2910    | D0GB563JA002 | 56K 1/16W               | [M]     |
| R2911    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2918    | ERJ3GEYJ222V | 2.2K 1/16W              | [M]     |
| R2919    | ERJ3GEYJ222V | 2.2K 1/16W              | [M]     |
| R2920    | ERJ3GEYJ220V | 22 1/16W                | [M]     |
| R2940    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R2941    | ERJ3GEYJ473V | 47K 1/16W               | [M]     |
| R2942    | ERJ3GEYJ473V | 47K 1/16W               | [M]     |
| R2943    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R2944    | ERJ3GEYJ223V | 22K 1/16W               | [M]     |
| R2945    | ERJ3GEYJ123V | 12K 1/16W               | [M]     |
| R2946    | ERJ3GEYJ223V | 22K 1/16W               | [M]     |
| R2947    | ERJ3GEYJ123V | 12K 1/16W               | [M]     |
| R2948    | ERJ3GEYJ221V | 220 1/16W               | [M]     |
| R2949    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R2950    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R2955    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R2956    | ERJ3GEYJ221V | 220 1/16W               | [M]     |
| R2957    | ERJ3GEYJ223V | 22K 1/16W               | [M]     |
| R2958    | D0GB333JA002 | 33K 1/16W               | [M]     |
| R2959    | ERJ3GEYJ473V | 47K 1/16W               | [M]     |
| R2960    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R2961    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R2962    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2964    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2970    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R2971    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R2972    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R2973    | D0GB332JA002 | 3.3K 1/16W              | [M]     |
| R2974    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R2975    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R2976    | ERDS1FVJ220T | 22 1/2W                 | [M]     |
| R2977    | ERJ3GEYJ224V | 220K 1/16W              | [M]     |
| R2978    | D0GB101JA002 | 100 1/16W               | [M]     |
| R2979    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R2981    | ERJ3GEYJ225V | 2.2M 1/16W              | [M]     |
| R2984    | ERJ3GEYJ470V | 47 1/16W                | [M]     |
| R2985    | ERJ3GEYJ470V | 47 1/16W                | [M]     |
| R2986    | ERJ3GEYJ470V | 47 1/16W                | [M]     |
| R2988    | ERD25FVJ4R7T | 4.7 1/4W                | [M]     |
| R2992    | D0GB101JA002 | 100 1/16W               | [M]     |
| R2993    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R2994    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R2995    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R2996    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2997    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2998    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R2999    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R5245    | ERDS2TJ332T  | 3.3K 1/4W               | [M]     |
| R5246    | ERDS2TJ153T  | 15K 1/4W                | [M]     |
| R5247    | ERDS2TJ332T  | 3.3K 1/4W               | [M]     |
| R5248    | ERDS2TJ153T  | 15K 1/4W                | [M]     |
| R5249    | ERDS2TJ683T  | 68K 1/4W                | [M]     |
| R5250    | ERDS2TJ683T  | 68K 1/4W                | [M]     |
| R5251    | ERDS2TJ154T  | 150K 1/4W               | [M]     |
| R5252    | ERDS2TJ104T  | 100K 1/4W               | [M]     |
| R5253    | ERDS2TJ100T  | 10 1/4W                 | [M]     |
| R5254    | ERDS2TJ100T  | 10 1/4W                 | [M]     |
| R5255    | ERDS1FVJ100T | 10 1/2W                 | [M]     |
| R5256    | ERDS1FVJ100T | 10 1/2W                 | [M]     |
| R5445    | ERDS2TJ332T  | 3.3K 1/4W               | [M]     |
| R5446    | ERDS2TJ153T  | 15K 1/4W                | [M]     |
| R5447    | ERDS2TJ332T  | 3.3K 1/4W               | [M]     |
| R5448    | ERDS2TJ153T  | 15K 1/4W                | [M]     |

| Ref. No. | Part No.     | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| R5449    | ERDS2TJ683T  | 68K 1/4W                | [M]     |
| R5450    | ERDS2TJ683T  | 68K 1/4W                | [M]     |
| R5451    | ERDS2TJ563T  | 56K 1/4W                | [M]     |
| R5452    | ERDS2TJ224T  | 220K 1/4W               | [M]     |
| R5453    | ERDS2TJ100T  | 10 1/4W                 | [M]     |
| R5454    | ERDS2TJ100T  | 10 1/4W                 | [M]     |
| R5455    | ERDS1FVJ100T | 10 1/2W                 | [M]     |
| R5456    | ERDS1FVJ100T | 10 1/2W                 | [M]     |
| R5801    | ERDS2TJ103T  | 10K 1/4W                | [M]     |
| R5802    | ERDS2TJ223T  | 22K 1/4W                | [M]     |
| R5803    | ERDS2TJ123T  | 12K 1/4W                | [M]     |
| R5804    | ERDS2TJ473T  | 47K 1/4W                | [M]     |
| R5805    | ERDS2TJ473T  | 47K 1/4W                | [M]     |
| R5806    | ERDS2TJ104T  | 100K 1/4W               | [M]     |
| R5807    | ERDS1FVJ271T | 270 1/2W                | [M]     |
| R5808    | ERDS1FVJ271T | 270 1/2W                | [M]     |
| R5809    | ERDS1FVJ391T | 390 1/2W                | [M]     |
| R5810    | ERDS2TJ272T  | 2.7K 1/4W               | [M]     |
| R5811    | ERDS2TJ561T  | 560 1/4W                | [M]     |
| R5812    | ERDS2TJ272T  | 2.7K 1/4W               | [M]     |
| R5813    | ERDS2TJ332T  | 3.3K 1/4W               | [M]     |
| R5814    | ERDS2TJ332T  | 3.3K 1/4W               | [M]     |
| R5815    | ERDS1FVJ270T | 27 1/2W                 | [M]     |
| R5816    | ERDS1FVJ150T | 15 1/2W                 | [M]     |
| R5817    | D0C14R7JA020 | 4.7 1W                  | [M]     |
| R5818    | D0C14R7JA020 | 4.7 1W                  | [M]     |
| R5819    | D0C18R2JA020 | 8.2 1W                  | [M]     |
| R5820    | D0C18R2JA020 | 8.2 1W                  | [M]     |
| R5821    | D0C18R2JA020 | 8.2 1W                  | [M]     |
| R5822    | ERDS2TJ332T  | 3.3K 1/4W               | [M]     |
| R5823    | ERDS2TJ471T  | 470 1/4W                | [M]     |
| R5824    | ERDS2TJ2R2T  | 2.2 1/4W                | [M]     |
| R5825    | ERDS2TJ2R2T  | 2.2 1/4W                | [M]     |
| R5826    | ERDS2TJ2R2T  | 2.2 1/4W                | [M]     |
| R5827    | ERDS2TJ2R2T  | 2.2 1/4W                | [M]     |
| R5828    | ERDS2TJ103T  | 10K 1/4W                | [M]     |
| R5829    | ERDS1FVJ331T | 330 1/2W                | [M]     |
| R5830    | ERDS2TJ122T  | 1.2K 1/4W               | [M]     |
| R5831    | ERDS2TJ222T  | 2.2K 1/4W               | [M]     |
| R5832    | ERDS2TJ151T  | 150 1/4W                | [M]     |
| R5834    | ERDS1FVJ270T | 27 1/2W                 | [M]     |
| R5853    | ERDS2TJ224T  | 220K 1/4W               | [M]     |
| R5854    | ERDS2TJ103T  | 10K 1/4W                | [M]     |
| R5855    | ERDS2TJ223T  | 22K 1/4W                | [M]     |
| R5856    | ERDS2TJ103T  | 10K 1/4W                | [M]     |
| R5857    | ERDS2TJ223T  | 22K 1/4W                | [M]     |
| R5858    | D0C18R2JA020 | 8.2 1W                  | [M]     |
| R7102    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R7104    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R7105    | D0GB273JA002 | 27K 1/16W               | [M]     |
| R7106    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R7107    | ERJ3GEYJ154V | 150K 1/16W              | [M]     |
| R7108    | ERJ3GEYJ154V | 150K 1/16W              | [M]     |
| R7144    | D0GB393JA002 | 39K 1/16W               | [M]     |
| R7151    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R7152    | ERJ3GEYJ153V | 15K 1/16W               | [M]     |
| R7209    | ERJ3GEYJ473V | 47K 1/16W               | [M]     |
| R7211    | ERJ3GEYJ823V | 82K 1/16W               | [M]     |
| R7212    | D0GB271JA002 | 270 1/16W               | [M]     |
| R7214    | ERJ3GEYJ682V | 6.8K 1/16W              | [M]     |
| R7221    | D0GB101JA002 | 100 1/16W               | [M]     |
| R7241    | ERJ3GEYJ473V | 47K 1/16W               | [M]     |
| R7242    | ERJ3GEYJ224V | 220K 1/16W              | [M]     |
| R7253    | ERJ3GEYJ100V | 10 1/16W                | [M]     |
| R7254    | ERJ3GEYD103V | 10K 1/16W               | [M]     |
| R7255    | ERJ3GEYD562V | 5.6K 1/16W              | [M]     |
| R7262    | D0GB272JA002 | 2.7K 1/16W              | [M]     |
| R7315    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R7323    | ERJ3GEYJ682V | 6.8K 1/16W              | [M]     |
| R7324    | D0GB333JA002 | 33K 1/16W               | [M]     |
| R7325    | ERJ3GEYJ391V | 390 1/16W               | [M]     |
| R7327    | D0GB392JA002 | 3.9K 1/16W              | [M]     |
| R7328    | D0GB392JA002 | 3.9K 1/16W              | [M]     |
| R7329    | D0GB392JA002 | 3.9K 1/16W              | [M]     |

| Ref. No. | Part No.     | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| R7331    | ERJ3GEYJ682V | 6.8K 1/16W              | [M]     |
| R7335    | D0GB101JA002 | 100 1/16W               | [M]     |
| R7336    | ERJ3GEYJ100V | 10 1/16W                | [M]     |
| R7349    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R7601    | D0GB4R7JA008 | 4.7 1/16W               | [M]     |
| R7650    | ERJ3GEYJ5R6V | 5.6 1/16W               | [M]     |
|          |              |                         |         |
|          |              | CAPACITORS              |         |
|          |              |                         |         |
| C1       | ECEA1CKA101B | 100 16V                 | [M]     |
| C2       | ECBT1E103ZF5 | 0.01 25V                | [M]     |
| C600     | RCE1AM102B   | 1000P 10V               | [M]     |
| C601     | ECEA1AKA220B | 22 10V                  | [M]     |
| C602     | ECBT1E103ZF5 | 0.01 25V                | [M]     |
| C603     | ECBT1H331KB5 | 330P 50V                | [M]     |
| C604     | ECBT1E103ZF5 | 0.01 25V                | [M]     |
| C605     | ECEA0JKA101B | 100 6.3V                | [M]     |
| C606     | ECBT1H104ZF5 | 0.1 50V                 | [M]     |
| C607     | ECBT1H101KB5 | 100P 50V                | [M]     |
| C608     | ECEA1HKA010B | 1 50V                   | [M]     |
| C609     | ECBT1H101KB5 | 100P 50V                | [M]     |
| C610     | ECEA1HKA2R2B | 2.2 50V                 | [M]     |
| C611     | ECBT1H680J5  | 68P 50V                 | [M]     |
| C612     | ECBT1H680J5  | 68P 50V                 | [M]     |
| C613     | ECBT1H560J5  | 56P 50V                 | [M]     |
| C616     | ECBT1H560J5  | 56P 50V                 | [M]     |
| C617     | ECBT1H180JC5 | 18P 50V                 | [M]     |
| C618     | ECBT1H150JC5 | 15P 50V                 | [M]     |
| C619     | F1D1H473A012 | 0.047 50V               | [M]     |
| C620     | ECBT1E223ZF5 | 0.022 25V               | [M]     |
| C621     | ECBT1E223ZF5 | 0.022 25V               | [M]     |
| C622     | ECBT1E223ZF5 | 0.022 25V               | [M]     |
| C623     | ECBT1H331KB5 | 330P 50V                | [M]     |
| C624     | ECBT1H331KB5 | 330P 50V                | [M]     |
| C625     | ECBT1H103KB5 | 0.01 50V                | [M]     |
| C626     | ECBT1H103KB5 | 0.01 50V                | [M]     |
| C627     | F1D1H1040002 | 0.1 50V                 | [M]     |
| C628     | ECBT1H103KB5 | 0.01 50V                | [M]     |
| C634     | ECBT1H101KB5 | 100P 50V                | [M]     |
| C635     | ECBT1H101KB5 | 100P 50V                | [M]     |
| C636     | ECBT1H104ZF5 | 0.1 50V                 | [M]     |
| C637     | ECBT1E103ZF5 | 0.01 25V                | [M]     |
| C638     | ECBT1H102KB5 | 1000P 50V               | [M]     |
| C639     | ECEA0JKA470B | 47 6.3V                 | [M]     |
| C640     | ECEA1HKA3R3B | 3.3 50V                 | [M]     |
| C641     | ECEA1VKA220B | 22 35V                  | [M]     |
| C642     | ECEA1VKA220B | 22 35V                  | [M]     |
| C644     | F1D1H1040002 | 0.1 50V                 | [M]     |
| C645     | ECBT1H561KB5 | 560P 50V                | [M]     |
| C646     | ECBT1H561KB5 | 560P 50V                | [M]     |
| C647     | ECBT1H561KB5 | 560P 50V                | [M]     |
| C648     | ECBT1H561KB5 | 560P 50V                | [M]     |
| C649     | ECBT1H561KB5 | 560P 50V                | [M]     |
| C650     | ECBT1H561KB5 | 560P 50V                | [M]     |
| C651     | ECBT1H102KB5 | 1000P 50V               | [M]     |
| C652     | ECBT1H561KB5 | 560P 50V                | [M]     |
| C653     | ECBT1H561KB5 | 560P 50V                | [M]     |
| C654     | ECBT1H561KB5 | 560P 50V                | [M]     |
| C655     | ECBT1H561KB5 | 560P 50V                | [M]     |
| C656     | ECBT1E103ZF5 | 0.01 25V                | [M]     |
| C657     | ECBT1E103ZF5 | 0.01 25V                | [M]     |
| C658     | ECEA1HKA0R1B | 0.1 50V                 | [M]     |
| C659     | ECEA1HKA0R1B | 0.1 50V                 | [M]     |
| C660     | ECEA1HKA0R1B | 0.1 50V                 | [M]     |
| C661     | ECEA1HKA0R1B | 0.1 50V                 | [M]     |
| C662     | ECBT1H473ZF5 | 0.047 50V               | [M]     |
| C663     | ECEA1HKA010B | 1 50V                   | [M]     |
| C664     | ECBT1H102KB5 | 1000P 50V               | [M]     |
| C665     | ECBT1H101KB5 | 100P 50V                | [M]     |
| C666     | ECBT1H102KB5 | 1000P 50V               | [M]     |
| C667     | ECEA1AKA101B | 100 10V                 | [M]     |
| C669     | ECBT1E103ZF5 | 0.01 25V                | [M]     |
| C670     | ECEA1HKAR33B | 0.33 50V                | [M]     |
| C671     | ECBT1E223ZF5 | 0.022 25V               | [M]     |

| Ref. No. | Part No.     | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| C672     | ECBT1H103KB5 | 0.01 50V                | [M]     |
| C901     | ECBT1H101KB5 | 100P 50V                | [M]     |
| C902     | ECBT1H101KB5 | 100P 50V                | [M]     |
| C903     | ECEA1HKA010B | 1 50V                   | [M]     |
| C904     | ECBT1C332KR5 | 3300P 16V               | [M]     |
| C905     | ECEA1HKAR47B | 0.47 50V                | [M]     |
| C906     | ECBT0J153MS5 | 0.015 6.3V              | [M]     |
| C907     | F1C1C333A004 | 0.033 16V               | [M]     |
| C908     | ECEA1CKA220B | 22 16V                  | [M]     |
| C909     | ECBT1E103ZF5 | 0.01 25V                | [M]     |
| C910     | ECBT0J153MS5 | 0.015 6.3V              | [M]     |
| C911     | ECBT1C472KR5 | 4700P 16V               | [M]     |
| C912     | F1C1C333A004 | 0.033 16V               | [M]     |
| C913     | ECBT1E103ZF5 | 0.01 25V                | [M]     |
| C914     | ECBT1H151KB5 | 150P 50V                | [M]     |
| C916     | ECEA1HKA4R7B | 4.7 50V                 | [M]     |
| C917     | ECBT1H102KB5 | 1000P 50V               | [M]     |
| C918     | ECEA1HKA3R3B | 3.3 50V                 | [M]     |
| C919     | ECBT1H471KB5 | 470P 50V                | [M]     |
| C920     | ECEA1HKA010B | 1 50V                   | [M]     |
| C922     | ECBT1H103KB5 | 0.01 50V                | [M]     |
| C950     | ECA1EM472B   | 4700 25V                | [M]     |
| C951     | ECKR1H103ZF5 | 0.01 50V                | [M]     |
| C952     | ECEA1AKA470B | 47 10V                  | [M]     |
| C953     | ECKR1H103MD5 | 0.01 50V                | [M]     |
| C954     | ECKR1H103ZF5 | 0.01 50V                | [M]     |
| C955     | ECA1HM101B   | 100 50V                 | [M]     |
| C956     | ECA1JM101B   | 100 63V                 | [M]     |
| C957     | ECEA2AU100B  | 10 100V                 | [M]     |
| C958     | ECKR1H103MD5 | 0.01 50V                | [M]     |
| C959     | ECKR2H103ZF5 | 0.01 500V               | [M]     |
| C960     | ECQE1104KF3  | 0.1 100V                | [M]     |
| C961     | ECA1CM102B   | 1000 16V                | [M]     |
| C962     | ECA1CM102B   | 1000 16V                | [M]     |
| C963     | ECEA1VKA4R7B | 4.7 35V                 | [M]     |
| C964     | ECKR1H102ZF5 | 1000P 50V               | [M]     |
| C1001    | F1H1H103A753 | 0.01 50V                | [M]     |
| C1002    | ECEA1HKN2R2B | 2.2 50V                 | [M]     |
| C1003    | ECUV1H152KBV | 1500P 50V               | [M]     |
| C1006    | ECEA1HKA010B | 1 50V                   | [M]     |
| C1007    | F0A2A472A015 | 4700P 100V              | [M]     |
| C1008    | ECEA1HKA010B | 1 50V                   | [M]     |
| C1009    | ECEA1CKA470B | 47 16V                  | [M]     |
| C1010    | ECA1EM101B   | 100 25V                 | [M]     |
| C1011    | ECQV1H473JZ3 | 0.047 50V               | [M]     |
| C1012    | ECJ1VB1H102K | 1000P 50V               | [M]     |
| C1013    | ECJ1VB1H102K | 1000P 50V               | [M]     |
| C1014    | ECJ1VB1H102K | 1000P 50V               | [M]     |
| C1015    | ECJ1VB1H102K | 1000P 50V               | [M]     |
| C1016    | ECJ1VB1H222K | 2200P 50V               | [M]     |
| C1017    | ECJ1VB1H222K | 2200P 50V               | [M]     |
| C1018    | ECJ1VB1H103K | 0.01 50V                | [M]     |
| C1019    | ECJ1VB1H102K | 1000P 50V               | [M]     |
| C1020    | ECJ1VB1H471K | 470P 50V                | [M]     |
| C1021    | ECJ1VB1H471K | 470P 50V                | [M]     |
| C1022    | ECJ1VB1H102K | 1000P 50V               | [M]     |
| C1023    | ECJ1VB1H102K | 1000P 50V               | [M]     |
| C1026    | ECEA0JKA470B | 47 6.3V                 | [M]     |
| C1027    | ECJ1VB1H102K | 1000P 50V               | [M]     |
| C1030    | ECEA1AKA101B | 100 10V                 | [M]     |
| C1031    | ECEA1AKA101B | 100 10V                 | [M]     |
| C1032    | F1C1C183A001 | 0.018 16V               | [M]     |
| C1033    | F1C1C183A001 | 0.018 16V               | [M]     |
| C1034    | ECEA1HKA3R3B | 3.3 50V                 | [M]     |
| C1035    | ECEA1HKA3R3B | 3.3 50V                 | [M]     |
| C1036    | ECJ1VB1C333K | 0.033 16V               | [M]     |
| C1037    | ECEA1HKA3R3B | 3.3 50V                 | [M]     |
| C1038    | ECJ1VB1H221K | 220P 50V                | [M]     |
| C1039    | ECJ1VB1H221K | 220P 50V                | [M]     |
| C1040    | ECEA1CKA100B | 10 16V                  | [M]     |
| C1041    | ECEA1CKA100B | 10 16V                  | [M]     |
| C1042    | ECEA1CKA220B | 22 16V                  | [M]     |
| C1043    | ECEA1HKA4R7B | 4.7 50V                 | [M]     |
| C1044    | ECEA1AKA330B | 33 10V                  | [M]     |

| Ref. No. | Part No.     | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| C1045    | ECEA1AKA220B | 22 10V                  | [M]     |
| C1046    | ECEA1CKA221B | 220 16V                 | [M]     |
| C1047    | ECEA1HKA010B | 1 50V                   | [M]     |
| C1048    | ECEA1HKA010B | 1 50V                   | [M]     |
| C1049    | ECJ1VB1H102K | 1000P 50V               | [M]     |
| C1050    | ECJ1VB1H102K | 1000P 50V               | [M]     |
| C1051    | ECEA1HKA010B | 1 50V                   | [M]     |
| C1052    | ECEA1HKA010B | 1 50V                   | [M]     |
| C1053    | ECA1CM221B   | 220 16V                 | [M]     |
| C1054    | ECEA1HKA3R3B | 3.3 50V                 | [M]     |
| C1055    | ECEA1HKA0R1B | 0.1 50V                 | [M]     |
| C1056    | ECEA1CKA100B | 10 16V                  | [M]     |
| C1057    | ECJ1VB1H102K | 1000P 50V               | [M]     |
| C1058    | ECJ1VB1H102K | 1000P 50V               | [M]     |
| C1059    | ECJ1VB1H103K | 0.01 50V                | [M]     |
| C1060    | ECJ1VB1H103K | 0.01 50V                | [M]     |
| C1064    | ECEA1HKA3R3B | 3.3 50V                 | [M]     |
| C1101    | ECJ1VB1E103K | 0.01 25V                | [M]     |
| C1102    | ECEA1CKA100B | 10 16V                  | [M]     |
| C1103    | ECJ1VB1E103K | 0.01 25V                | [M]     |
| C1104    | ECJ1VB1H102K | 1000P 50V               | [M]     |
| C1105    | ECJ1VB1H102K | 1000P 50V               | [M]     |
| C1106    | ECJ1VB1E103K | 0.01 25V                | [M]     |
| C1107    | ECJ1VF1E473Z | 0.047 25V               | [M]     |
| C1108    | ECJ1VC1H080D | 8P 50V                  | [M]     |
| C1109    | ECJ1VB1H102K | 1000P 50V               | [M]     |
| C1110    | ECJ1VB1E103K | 0.01 25V                | [M]     |
| C1111    | ECEA1HKA4R7B | 4.7 50V                 | [M]     |
| C1112    | ECJ1VB1E103K | 0.01 25V                | [M]     |
| C1113    | ECJ1VB1H102K | 1000P 50V               | [M]     |
| C1114    | ECEA1HKA3R3B | 3.3 50V                 | [M]     |
| C1115    | ECEA1HKA4R7B | 4.7 50V                 | [M]     |
| C1116    | ECJ1VB1C333K | 0.033 16V               | [M]     |
| C1117    | ECJ1VB1E103K | 0.01 25V                | [M]     |
| C1118    | ECJ1VB1E103K | 0.01 25V                | [M]     |
| C1119    | F0A2A561A015 | 560P 100V               | [M]     |
| C1120    | ECEA1CKA100B | 10 16V                  | [M]     |
| C1121    | ECEA1HKAR47B | 0.47 50V                | [M]     |
| C1122    | ECEA1HKA010B | 1 50V                   | [M]     |
| C1123    | ECEA1HKA010B | 1 50V                   | [M]     |
| C1124    | ECJ1VC1H101K | 100P 50V                | [M]     |
| C1125    | ECEA1CKA220B | 22 16V                  | [M]     |
| C1126    | ECJ2VF1C105Z | 1 16V                   | [M]     |
| C1127    | ECEA1CKA220B | 22 16V                  | [M]     |
| C1129    | ECEA0JKA101B | 100 6.3V                | [M]     |
| C1130    | ECEA0JKA101B | 100 6.3V                | [M]     |
| C1131    | ECJ1VC1H101J | 100P 50V                | [M]     |
| C1132    | ECJ1VB1H102K | 1000P 50V               | [M]     |
| C1133    | ECJ1VC1H270J | 27P 50V                 | [M]     |
| C1134    | ECJ1VC1H270J | 27P 50V                 | [M]     |
| C1136    | ECJ1VB1H102K | 1000P 50V               | [M]     |
| C1137    | ECJ1VB1H332K | 3300P 50V               | [M]     |
| C1138    | ECJ1VB1E103K | 0.01 25V                | [M]     |
| C1139    | ECEA1HKA4R7B | 4.7 50V                 | [M]     |
| C1141    | ECEA1HKA010B | 1 50V                   | [M]     |
| C1142    | ECEA1HKA010B | 1 50V                   | [M]     |
| C1143    | ECJ1VB1H472K | 4700P 50V               | [M]     |
| C1144    | ECJ1VB1H472K | 4700P 50V               | [M]     |
| C1147    | ECJ1VB1H102K | 1000P 50V               | [M]     |
| C1148    | ECJ1VB1E103K | 0.01 25V                | [M]     |
| C1149    | ECUV1C104ZFV | 0.1 16V                 | [M]     |
| C2100    | ECUVNC104KBV | 0.1 16V                 | [M]     |
| C2101    | ECEV1CA100SR | 10 16V                  | [M]     |
| C2101    | ECJ1VB1H681K | 680P 50V                | [M]     |
| C2102    | ECJ1VC1H101K | 100P 50V                | [M]     |
| C2103    | ECJ1VB1H102K | 1000P 50V               | [M]     |
| C2103    | ECUVNC104KBV | 0.1 16V                 | [M]     |
| C2104    | ECJ1VB1H221K | 220P 50V                | [M]     |
| C2105    | ECJ1VB1H221K | 220P 50V                | [M]     |
| C2105    | ECUVNC104KBV | 0.1 16V                 | [M]     |
| C2106    | ECEA1CKA100B | 10 16V                  | [M]     |
| C2107    | ECEA1CKA100B | 10 16V                  | [M]     |
| C2108    | ECEA1CKA100B | 10 16V                  | [M]     |
| C2109    | ECEA1CKA100B | 10 16V                  | [M]     |

| Ref. No. | Part No.     | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| C2110    | ECUVNC104KBV | 0.1 16V                 | [M]     |
| C2111    | ECEA1CKA100B | 10 16V                  | [M]     |
| C2112    | ECEA1CKA100B | 10 16V                  | [M]     |
| C2113    | ECEA1HKAR33B | 0.33 50V                | [M]     |
| C2114    | ECEA1HKAR33B | 0.33 50V                | [M]     |
| C2115    | ECJ2VB1E273K | 0.027 25V               | [M]     |
| C2116    | ECJ2VB1E273K | 0.027 25V               | [M]     |
| C2117    | ECJ1VB1H222K | 2200P 50V               | [M]     |
| C2118    | ECEA1CKA100B | 10 16V                  | [M]     |
| C2119    | ECQV1H474JZ3 | 0.47 50V                | [M]     |
| C2120    | ECQV1H474JZ3 | 0.47 50V                | [M]     |
| C2120    | ECUVNC104KBV | 0.1 16V                 | [M]     |
| C2121    | ECEA1CKA100B | 10 16V                  | [M]     |
| C2122    | ECJ1VB1E183K | 0.018 25V               | [M]     |
| C2123    | ECJ1VB1H222K | 2200P 50V               | [M]     |
| C2124    | ECEA1HKA3R3B | 3.3 50V                 | [M]     |
| C2125    | ECJ1VC1H101K | 100P 50V                | [M]     |
| C2126    | ECJ1VC1H470J | 47P 50V                 | [M]     |
| C2127    | ECEA1CKA100B | 10 16V                  | [M]     |
| C2128    | ECEA1CKA100B | 10 16V                  | [M]     |
| C2129    | ECEA1HKA010B | 1 50V                   | [M]     |
| C2130    | ECJ1VB1H153K | 0.015 50V               | [M]     |
| C2131    | ECJ1VB1H821K | 820P 50V                | [M]     |
| C2132    | FIH1H822A022 | 8200P 50V               | [M]     |
| C2133    | FIH1H822A022 | 8200P 50V               | [M]     |
| C2134    | ECEA1HKA010B | 1 50V                   | [M]     |
| C2135    | ECEA1HKAR47B | 0.47 50V                | [M]     |
| C2137    | ECJ1VC1H101K | 100P 50V                | [M]     |
| C2138    | ECEA1HKA3R3B | 3.3 50V                 | [M]     |
| C2139    | ECEA1HKA3R3B | 3.3 50V                 | [M]     |
| C2140    | ECJ1VB1H102K | 1000P 50V               | [M]     |
| C2141    | ECJ1VC1H470J | 47P 50V                 | [M]     |
| C2142    | ECJ1VC1H101K | 100P 50V                | [M]     |
| C2143    | ECJ1VB1H681K | 680P 50V                | [M]     |
| C2144    | ECEA1CKA100B | 10 16V                  | [M]     |
| C2145    | ECEA1CKA100B | 10 16V                  | [M]     |
| C2146    | ECJ2VB1E104K | 0.1 25V                 | [M]     |
| C2147    | ECEA1CKA100B | 10 16V                  | [M]     |
| C2162    | ECEV1CA100SR | 10 16V                  | [M]     |
| C2200    | ECEV1CA100SR | 10 16V                  | [M]     |
| C2201    | ECEV1CA100SR | 10 16V                  | [M]     |
| C2202    | ECJ1VC1H330J | 33P 50V                 | [M]     |
| C2203    | ECEV1CA100SR | 10 16V                  | [M]     |
| C2204    | ECJ1VB1H221K | 220P 50V                | [M]     |
| C2300    | ECUVNC104KBV | 0.1 16V                 | [M]     |
| C2301    | ECEV1CA100SR | 10 16V                  | [M]     |
| C2302    | ECUVNC104KBV | 0.1 16V                 | [M]     |
| C2303    | ECUVNC104KBV | 0.1 16V                 | [M]     |
| C2304    | ECEV1CA100SR | 10 16V                  | [M]     |
| C2305    | ECUVNC104KBV | 0.1 16V                 | [M]     |
| C2350    | ECUVNC104KBV | 0.1 16V                 | [M]     |
| C2351    | ECUVNC104KBV | 0.1 16V                 | [M]     |
| C2352    | ECUVNC104KBV | 0.1 16V                 | [M]     |
| C2353    | ECUVNC104KBV | 0.1 16V                 | [M]     |
| C2354    | ECUVNC104KBV | 0.1 16V                 | [M]     |
| C2355    | ECUVNC104KBV | 0.1 16V                 | [M]     |
| C2356    | ECUVNC104KBV | 0.1 16V                 | [M]     |
| C2357    | ECUVNC104KBV | 0.1 16V                 | [M]     |
| C2358    | ECJ1VC1H150J | 15P 50V                 | [M]     |
| C2359    | ECJ1VC1H050D | 5P 50V                  | [M]     |
| C2360    | ECUVNC104KBV | 0.1 16V                 | [M]     |
| C2361    | ECEV1CA101WP | 100 16V                 | [M]     |
| C2362    | ECUVNC104KBV | 0.1 16V                 | [M]     |
| C2363    | ECUVNC104KBV | 0.1 16V                 | [M]     |
| C2364    | ECEV1CA101WP | 100 16V                 | [M]     |
| C2365    | ECUVNC104KBV | 0.1 16V                 | [M]     |
| C2366    | EEVFC1C470P  | 47P 16V                 | [M]     |
| C2367    | ECJ1VC1H471J | 470P 50V                | [M]     |
| C2368    | ECJ1VC1H471J | 470P 50V                | [M]     |
| C2369    | ECEV1CA101WP | 100 16V                 | [M]     |
| C2370    | ECUVNC104KBV | 0.1 16V                 | [M]     |
| C2371    | ECUVNC104KBV | 0.1 16V                 | [M]     |
| C2372    | ECUVNC104KBV | 0.1 16V                 | [M]     |
| C2373    | EEVHB0J470R  | 47P 6.3V                | [M]     |

| Ref. No. | Part No.     | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| C2374    | ECJ1VB1C103K | 0.01 16V                | [M]     |
| C2400    | ECEV1CA100SR | 10 16V                  | [M]     |
| C2401    | ECEV1CA100SR | 10 16V                  | [M]     |
| C2402    | ECJ1VC1H330J | 33P 50V                 | [M]     |
| C2403    | ECEV1CA100SR | 10 16V                  | [M]     |
| C2404    | ECJ1VB1H221K | 220P 50V                | [M]     |
| C2701    | ECJ1VB1H681K | 680P 50V                | [M]     |
| C2701    | ECUVNC104KBV | 0.1 16V                 | [M]     |
| C2702    | ECJ1VC1H101K | 100P 50V                | [M]     |
| C2702    | ECUVNC104KBV | 0.1 16V                 | [M]     |
| C2703    | ECJ1VB1H102K | 1000P 50V               | [M]     |
| C2703    | ECUVNC104KBV | 0.1 16V                 | [M]     |
| C2704    | ECJ1VB1H221K | 220P 50V                | [M]     |
| C2705    | ECJ1VB1H221K | 220P 50V                | [M]     |
| C2706    | ECEA1CKA100B | 10 16V                  | [M]     |
| C2707    | ECEA1CKA100B | 10 16V                  | [M]     |
| C2708    | ECEA1CKA100B | 10 16V                  | [M]     |
| C2709    | ECEA1CKA100B | 10 16V                  | [M]     |
| C2711    | ECEA1CKA100B | 10 16V                  | [M]     |
| C2712    | ECEA1CKA100B | 10 16V                  | [M]     |
| C2713    | ECEA1HKAR33B | 0.33 50V                | [M]     |
| C2714    | ECEA1HKAR33B | 0.33 50V                | [M]     |
| C2715    | ECJ2VB1E273K | 0.027 25V               | [M]     |
| C2716    | ECJ2VB1E273K | 0.027 25V               | [M]     |
| C2717    | ECJ1VB1H222K | 2200P 50V               | [M]     |
| C2718    | ECEA1CKA100B | 10 16V                  | [M]     |
| C2719    | ECQV1H474JZ3 | 0.47 50V                | [M]     |
| C2720    | ECQV1H474JZ3 | 0.47 50V                | [M]     |
| C2721    | ECEA1CKA100B | 10 16V                  | [M]     |
| C2722    | ECJ1VB1E183K | 0.018 25V               | [M]     |
| C2723    | ECJ1VB1H222K | 2200P 50V               | [M]     |
| C2724    | ECEA1HKA3R3B | 3.3 50V                 | [M]     |
| C2725    | ECJ1VC1H101K | 100P 50V                | [M]     |
| C2726    | ECJ1VC1H470J | 47P 50V                 | [M]     |
| C2727    | ECEA1CKA100B | 10 16V                  | [M]     |
| C2728    | ECEA1CKA100B | 10 16V                  | [M]     |
| C2729    | ECEA1HKA010B | 1 50V                   | [M]     |
| C2730    | ECJ1VB1H153K | 0.015 50V               | [M]     |
| C2731    | ECJ1VB1H821K | 820P 50V                | [M]     |
| C2732    | FIH1H822A022 | 8200P 50V               | [M]     |
| C2733    | FIH1H822A022 | 8200P 50V               | [M]     |
| C2734    | ECEA1HKA010B | 1 50V                   | [M]     |
| C2735    | ECEA1HKAR47B | 0.47 50V                | [M]     |
| C2737    | ECJ1VC1H101K | 100P 50V                | [M]     |
| C2738    | ECEA1HKA3R3B | 3.3 50V                 | [M]     |
| C2739    | ECEA1HKA3R3B | 3.3 50V                 | [M]     |
| C2740    | ECJ1VB1H102K | 1000P 50V               | [M]     |
| C2741    | ECJ1VC1H470J | 47P 50V                 | [M]     |
| C2742    | ECJ1VC1H101K | 100P 50V                | [M]     |
| C2743    | ECJ1VB1H681K | 680P 50V                | [M]     |
| C2744    | ECEA1CKA100B | 10 16V                  | [M]     |
| C2745    | ECEA1CKA100B | 10 16V                  | [M]     |
| C2800    | ECA0JM471B   | 470 6.3V                | [M]     |
| C2801    | ECEA1AKA101B | 100 10V                 | [M]     |
| C2802    | ECUV1H104KBV | 0.1 50V                 | [M]     |
| C2803    | ECJ1VB1H471K | 470P 50V                | [M]     |
| C2805    | ECUV1H104KBV | 0.1 50V                 | [M]     |
| C2806    | ECUV1H104KBV | 0.1 50V                 | [M]     |
| C2807    | ECEA1AKA101B | 100 10V                 | [M]     |
| C2808    | ECEA1AKA101B | 100 10V                 | [M]     |
| C2809    | ECJ1VC1H101K | 100P 50V                | [M]     |
| C2811    | ECJ1VB1H223K | 0.022 50V               | [M]     |
| C2813    | ECEA0JKA101B | 100 6.3V                | [M]     |
| C2814    | ECJ1VB1H103K | 0.01 50V                | [M]     |
| C2815    | ECJ2VB1E104K | 0.1 25V                 | [M]     |
| C2816    | ECJ1VB1H331K | 330P 50V                | [M]     |
| C2817    | ECJ1VB1H331K | 330P 50V                | [M]     |
| C2818    | ECEA0JKA101B | 100 6.3V                | [M]     |
| C2819    | ECJ2VB1E104K | 0.1 25V                 | [M]     |
| C2820    | ECJ1VB1H103K | 0.01 50V                | [M]     |
| C2824    | ECJ2VF1H104Z | 0.1 50V                 | [M]     |
| C2825    | ECEA1AKA220B | 22 10V                  | [M]     |
| C2826    | ECA1CM331B   | 330 16V                 | [M]     |
| C2827    | F2A0J471A201 | 470P 6.3V               | [M]     |

| Ref. No. | Part No.      | Part Name & Description | Remarks |
|----------|---------------|-------------------------|---------|
| C2828    | ECJ2VB1H471K  | 470P 50V                | [M]     |
| C2829    | ECUV1C104KBV  | 0.1 16V                 | [M]     |
| C2832    | ECEA1AKA101B  | 100 10V                 | [M]     |
| C2833    | EEUFCL1A681LB | 680P 10V                | [M]     |
| C2834    | ECA1HM101B    | 100 50V                 | [M]     |
| C2835    | ECJ2VB1C224K  | 0.22 16V                | [M]     |
| C2901    | ECJ1VB1H102K  | 1000P 50V               | [M]     |
| C2902    | ECJ1VB1E103K  | 0.01 25V                | [M]     |
| C2903    | ECJ1VB1H102K  | 1000P 50V               | [M]     |
| C2904    | ECEA1HKA010B  | 1 50V                   | [M]     |
| C2905    | ECEA1CKA221B  | 220 16V                 | [M]     |
| C2906    | ECJ2VB1C154K  | 0.15 16V                | [M]     |
| C2908    | ECJ2VC1H101J  | 100P 50V                | [M]     |
| C2909    | ECEA1HKN4R7B  | 4.7 50V                 | [M]     |
| C2910    | ECEA0JKA101B  | 100 6.3V                | [M]     |
| C2911    | ECEA0JKA101B  | 100 6.3V                | [M]     |
| C2912    | ECJ1VB1E103K  | 0.01 25V                | [M]     |
| C2913    | ECJ1VB1E103K  | 0.01 25V                | [M]     |
| C2926    | ECJ1VF1C474Z  | 0.47 16V                | [M]     |
| C2929    | ECEA1CKA100B  | 10 16V                  | [M]     |
| C2930    | ECJ1VB1C393K  | 0.039 16V               | [M]     |
| C2931    | ECJ1VB1A224K  | 0.22 10V                | [M]     |
| C2932    | ECJ1VB1A224K  | 0.22 10V                | [M]     |
| C2933    | ECEA1HKN4R7B  | 4.7 50V                 | [M]     |
| C2934    | ECJ1VB1E103K  | 0.01 25V                | [M]     |
| C2935    | ECJ1VB1E103K  | 0.01 25V                | [M]     |
| C2936    | ECJ2VB1E104K  | 0.1 25V                 | [M]     |
| C2937    | ECJ2VB1E104K  | 0.1 25V                 | [M]     |
| C2938    | ECJ2VB1C224K  | 0.22 16V                | [M]     |
| C2939    | ECJ2VB1C224K  | 0.22 16V                | [M]     |
| C2940    | ECJ2VB1E104K  | 0.1 25V                 | [M]     |
| C2941    | ECJ2VB1C224K  | 0.22 16V                | [M]     |
| C2943    | ECJ2VB1C224K  | 0.22 16V                | [M]     |
| C2970    | ECJ1VB1E103K  | 0.01 25V                | [M]     |
| C2971    | ECJ1VB1E103K  | 0.01 25V                | [M]     |
| C2972    | ECA1CM221B    | 220 16V                 | [M]     |
| C2973    | RCE1HKN100BG  | 10P 50V                 | [M]     |
| C2975    | ECA1CM331B    | 330 16V                 | [M]     |
| C2976    | ECJ1VB1E103K  | 0.01 25V                | [M]     |
| C2977    | ECJ1VB1E103K  | 0.01 25V                | [M]     |
| C2978    | ECEA1CKA100B  | 10 16V                  | [M]     |
| C5240    | ECBT1H821KB5  | 820P 50V                | [M]     |
| C5241    | ECBT1H150JC5  | 15P 50V                 | [M]     |
| C5242    | ECBT1H821KB5  | 820P 50V                | [M]     |
| C5243    | ECBT1H150JC5  | 15P 50V                 | [M]     |
| C5244    | F1D1H473A012  | 0.047 50V               | [M]     |
| C5245    | F1D1H473A012  | 0.047 50V               | [M]     |
| C5246    | F1D1H473A012  | 0.047 50V               | [M]     |
| C5247    | F1D1H473A012  | 0.047 50V               | [M]     |
| C5248    | ECBT1C472KR5  | 4700P 16V               | [M]     |
| C5440    | ECBT1H821KB5  | 820P 50V                | [M]     |
| C5441    | ECBT1H150JC5  | 15P 50V                 | [M]     |
| C5442    | ECBT1H821KB5  | 820P 50V                | [M]     |
| C5443    | ECBT1H150JC5  | 15P 50V                 | [M]     |
| C5444    | F1D1H473A012  | 0.047 50V               | [M]     |
| C5445    | F1D1H473A012  | 0.047 50V               | [M]     |
| C5446    | F1D1H473A012  | 0.047 50V               | [M]     |

| Ref. No. | Part No.     | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| C5447    | F1D1H473A012 | 0.047 50V               | [M]     |
| C5448    | ECBT1H103KB5 | 0.01 50V                | [M]     |
| C5801    | ECBT1H103KB5 | 0.01 50V                | [M]     |
| C5802    | ECA1CM471B   | 470 16V                 | [M]     |
| C5803    | ECBT1H102KB5 | 1000P 50V               | [M]     |
| C5804    | ECKR1H103MD5 | 0.01 50V                | [M]     |
| C5805    | ECEA1CKA101B | 100 16V                 | [M]     |
| C5806    | ECKR1H103MD5 | 0.01 50V                | [M]     |
| C5807    | ECEA1CKA100B | 10 16V                  | [M]     |
| C5808    | ECEA1CKA100B | 10 16V                  | [M]     |
| C5809    | ECKR1H103MD5 | 0.01 50V                | [M]     |
| C5810    | ECA1EM101B   | 100 25V                 | [M]     |
| C5811    | ECKR1H103MD5 | 0.01 50V                | [M]     |
| C5812    | ECEA1EKA330B | 33 25V                  | [M]     |
| C5813    | ECEA1EKA100B | 10 25V                  | [M]     |
| C5814    | ECKR1H103MD5 | 0.01 50V                | [M]     |
| C5820    | ECA1JM222B   | 2200 63V                | [M]     |
| C5830    | ECQV1H184JL3 | 0.18 50V                | [M]     |
| C5838    | ECEA1HKA2R2B | 2.2 50V                 | [M]     |
| C5840    | ECA1JM222B   | 2200 63V                | [M]     |
| C7102    | F1H1A334A025 | 0.33 10V                | [M]     |
| C7103    | ECEA0JKA101I | 100 6.3V                | [M]     |
| C7104    | ECUVNC104KBV | 0.1 16V                 | [M]     |
| C7105    | ECUVNC104KBV | 0.1 16V                 | [M]     |
| C7106    | F1H1A334A025 | 0.33 10V                | [M]     |
| C7107    | ECJ1VB1C393K | 0.039 16V               | [M]     |
| C7110    | F1H1H561A765 | 560P 50V                | [M]     |
| C7111    | ECJ1VB1H272K | 2700P 50V               | [M]     |
| C7112    | ECJ1VB1H272K | 2700P 50V               | [M]     |
| C7142    | ECJ1VB1E473K | 0.047 25V               | [M]     |
| C7147    | ECJ1VB1H471K | 470P 50V                | [M]     |
| C7149    | ECJ1VB1H222K | 2200P 50V               | [M]     |
| C7216    | F1H1H681A789 | 680P 50V                | [M]     |
| C7217    | ECUVNC104ZV  | 0.1 16V                 | [M]     |
| C7218    | ECJ1VB1A124K | 0.12 10V                | [M]     |
| C7221    | ECJ1VC1H020C | 2P 50V                  | [M]     |
| C7222    | ECJ1VC1H020C | 2P 50V                  | [M]     |
| C7223    | ECEA0JKA221I | 220 6.3V                | [M]     |
| C7224    | ECUVNC104ZV  | 0.1 16V                 | [M]     |
| C7230    | ECUVNC104ZV  | 0.1 16V                 | [M]     |
| C7231    | ECEA0JKA221I | 220 6.3V                | [M]     |
| C7232    | ECEA0JKA221I | 220 6.3V                | [M]     |
| C7233    | ECUVNC104ZV  | 0.1 16V                 | [M]     |
| C7243    | ECUVNC104ZV  | 0.1 16V                 | [M]     |
| C7244    | ECJ1VB1C153K | 0.015 16V               | [M]     |
| C7245    | ECJ1VB1H102K | 1000P 50V               | [M]     |
| C7260    | ECUV1C104KBV | 0.1 16V                 | [M]     |
| C7270    | ECUV1C224KBV | 0.22 16V                | [M]     |
| C7315    | ECJ1VB1C393K | 0.039 16V               | [M]     |
| C7334    | ECEA1AKA221I | 220 10V                 | [M]     |
| C7335    | ECUVNC104ZV  | 0.1 16V                 | [M]     |
| C7338    | ECJ1VB1H332K | 3300P 50V               | [M]     |
| C7339    | ECJ1VB1H103K | 0.01 50V                | [M]     |
| C7352    | F1H1H822A022 | 8200P 50V               | [M]     |
| C7601    | ECEA0JKA330I | 33 6.3V                 | [M]     |
| C7613    | ECUVNC104ZV  | 0.1 16V                 | [M]     |
| C7614    | ECEA0JKA101I | 100 6.3V                | [M]     |

## 22.5. Packing Materials & Accessories Parts List

| Ref. No. | Part No.   | Part Name & Description | Remarks |
|----------|------------|-------------------------|---------|
|          |            | PACKING MATERIALS       |         |
| P1       | RPGX1330-1 | PACKING CASE            | [M]     |
| P2       | RPNX0269   | POLYFOAM                | [M]     |
| P3       | RPF0007    | MIRAMAT BAG             | [M]     |
|          |            | ACCESSORIES             |         |

| Ref. No. | Part No.     | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| A1       | N2QAJB000117 | REMOTE CONTROL          | [M]     |
| A2       | RJA0019-2A   | AC CORD                 | [M] △   |
| A3       | RQT7704-R    | O/I BOOK (En/Ru)        | [M]     |
| A4       | RSA0007-L    | FM ANTENNA              | [M]     |
| A5       | N1DADYY00002 | AM LOOP ANTENNA         | [M]     |
| A6       | RJL1P016B15A | VIDEO CABLE             | [M]     |

## 22.6. Packaging

