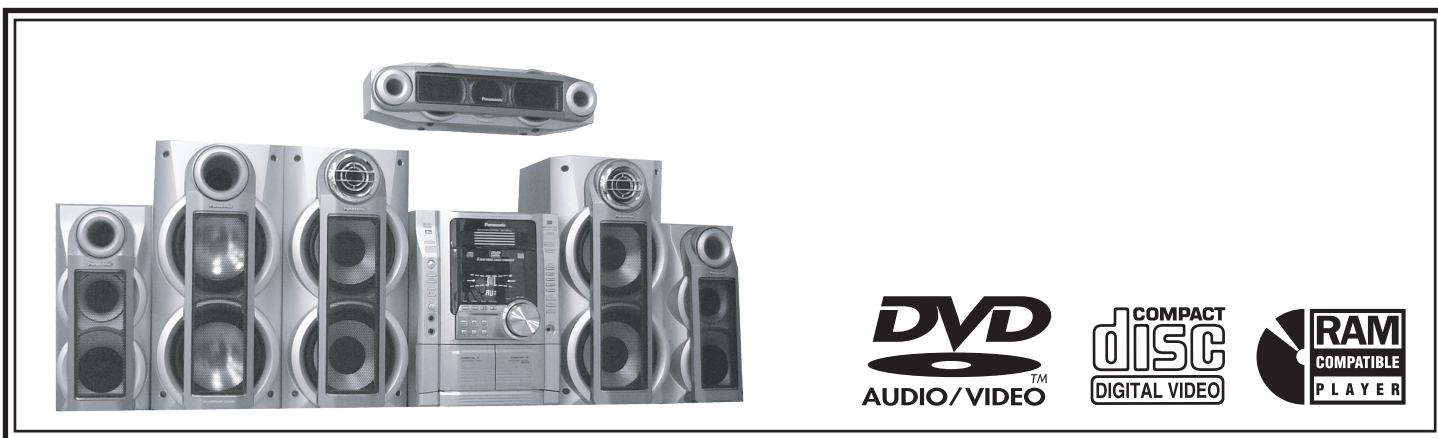


# Service Manual

| MODELO    | UNIDAD    |           |
|-----------|-----------|-----------|
| SC-TM72DV | SA-TM72DV | Estéreo   |
|           | SB-VK81   | Bafles    |
|           | SB-PS81   | Surround  |
|           | SB-PC81   | Central   |
|           | SB-WVK81  | Subwoofer |

Modelo: **SC-TM72DV**



|                       |                                                                          |
|-----------------------|--------------------------------------------------------------------------|
| AMPLIFICADOR          | SC-TM72DV                                                                |
| POTENCIA DE SALIDA:   | 4800 W (P.M.P.O.)                                                        |
| CONSUMO DE POTENCIA:  | 215 W                                                                    |
| ALIMENTACION:         | 127 V ca $\pm$ 10% 60 Hz                                                 |
| SENSIBILIDAD AUX:     | 250 mV                                                                   |
| RANGO DE SINTONIA AM: | 520 - 1710 kHz (paso de 10 kHz)                                          |
| RANGO DE SINTONIA FM: | 87,5 - 108,0 MHz (paso de 0,1 MHz)<br>87,9 - 107,9 MHz (paso de 0,2 MHz) |
| DIMENSIONES (BXHXL):  | 250 mm x 330 mm x 372 mm                                                 |
| PESO:                 | 9.6 kg aprox.                                                            |

| POTENCIA DE SALIDA (AMPLIFICADOR) |           |      |               |                |                 |
|-----------------------------------|-----------|------|---------------|----------------|-----------------|
| SC-TM72DV                         | FRONTAL   | 90 W | RCM por canal | (6 $\Omega$ ), | 1 kHz, 10% DAT  |
|                                   | SURROUND  | 45 W | RCM por canal | (6 $\Omega$ ), | 1 kHz, 10% DAT  |
|                                   | CENTRAL   | 90 W | RCM por canal | (6 $\Omega$ ), | 1 kHz, 10% DAT  |
|                                   | SUBWOOFER | 90 W | RCM por canal | (6 $\Omega$ ), | 100 Hz, 10% DAT |

| ESPECIFICACIONES POR CADA BAFLE |                    |                    |                    |                    |
|---------------------------------|--------------------|--------------------|--------------------|--------------------|
|                                 | FRONTAL            | SURROUND           | SUBWOOFER          | CENTRAL            |
| IMPEDANCIA DE ENTRADA           | 6 $\Omega$         | 6 $\Omega$         | 6 $\Omega$         | 6 $\Omega$         |
| SUPER WOOFER                    | 16 cm              | -----              | -----              | -----              |
| WOOFER                          | 16 cm              | 8 cm               | (x2) 16 cm         | (x2) 8 cm          |
| TWEETER                         | 6 cm               | 6 cm               | -----              | 6 cm               |
| DIMENSIONES (BxHxL)             | 209 x 432 x 296 mm | 150 x 331 x 163 mm | 209 x 432 x 348 mm | 395 x 105 x 124 mm |
| PESO:                           | 5,6 kg aprox.      | 1,55 kg aprox.     | 5,95 kg aprox.     | 1,7 kg aprox.      |

**Panasonic**

**Notas:**

- Las especificaciones están sujetas a cambios sin previo aviso.
- Los pesos y las dimensiones son aproximados.

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# 1 Before Use

Be sure to disconnect the mains cord before adjusting the voltage selector.

Use a minus(-) screwdriver to set the voltage selector (on the rear panel) to the voltage setting for the area in which the unit will be used. (If the power supply in your area is 117V or 120V, set to the “127V” position.)

Note that this unit will be seriously damaged if this setting is not made correctly. (There is no voltage selector for some countries, the correct voltage is already set.)

# 2 Before Repair and Adjustment

Disconnect AC power, discharge Power Supply Capacitors C5815~C5818, C5829~C5830, C5835~C5836 and C5841 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 110/127/220~230V, 50/60 Hz in NO SIGNAL at (vol. min, in CD mode) should be as below:

|            |           |           |
|------------|-----------|-----------|
| AC 50/60Hz | 110 V     | ~ 1200 mA |
|            | 127 V     | ~ 1100 mA |
|            | 220-230 V | ~ 700 mA  |
|            | 240 V     | ~ 650 mA  |

## 2.1 Rework Process for Main Board Versión RJBX0405A-1

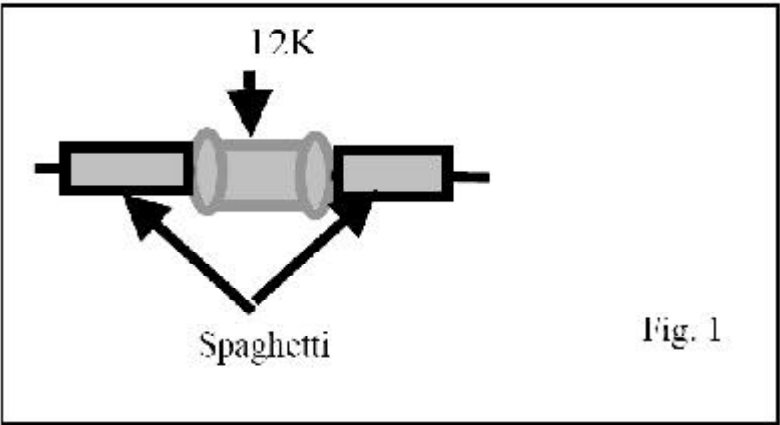
For Main PCB version 1 only (RJBX0405A-1), is necessary add two Axial resistors covered with a plastic tube in order to countermeasure a Pop Noise during Tuner - Recording.

Be sure that during the usage of this PCB these components are included.

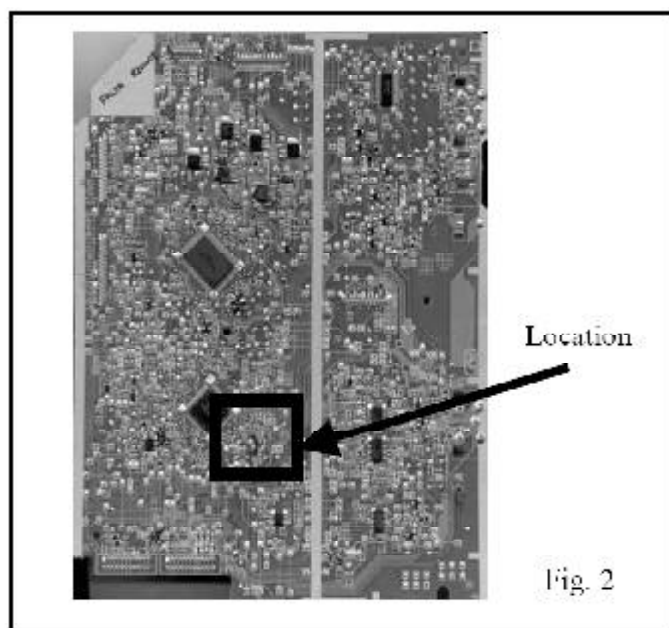
Material Required:

- 1.) 2 Axial Resistor , (ERDS2TJ123T)
- 2) 5 Cm Of Spaghetti , (W1VT)
- 3) 1g of Diabond , (DN83K)

Step1.  
Prepare the axial resistors as showed in the Fig. 1



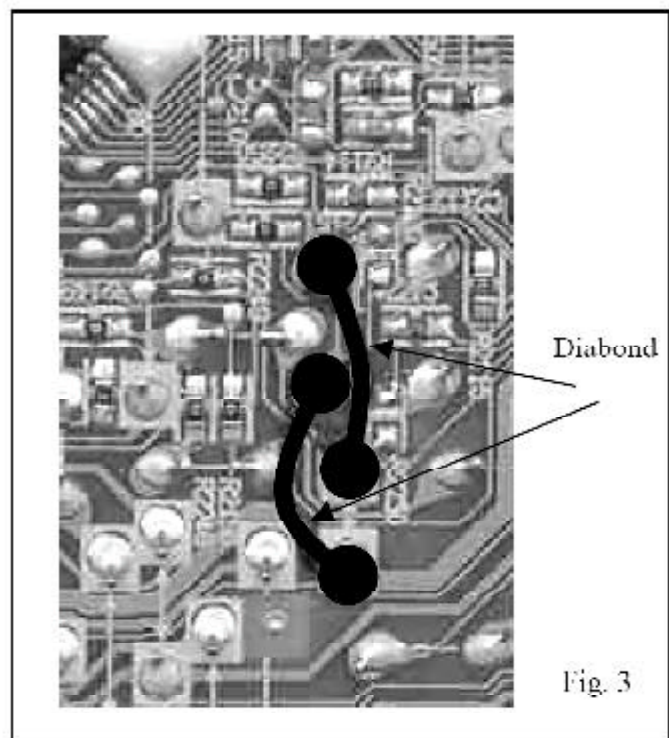
Step2. Locate soldering Points as showed in Fig.2



Step3. Solder the first resistor between W2346 and (-)C2236 Fig3.

Step4. Solder the second resistor between W2346 and (-)C2139 Fig3.

Step 5. Add Diabond to fix the resistor to the PCB. Fig.3



### 3 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.

# 4 Safety Precautions

## 4.1 General Guidelines

### 4.1.1 Leakage Current Cold Check

### 4.1.2 Leakage Current Hot Check (See Figure 1)

## 4.1 General Guidelines

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.

2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.

3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

### 4.1.1 Leakage Current Cold Check

### 4.1.2 Leakage Current Hot Check (See Figure 1)

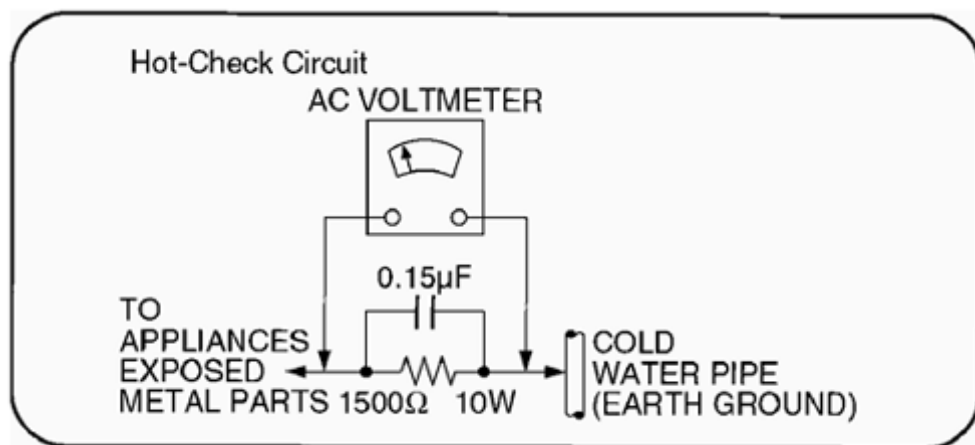
## 4.1.1 Leakage Current Cold Check

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.

2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 1M $\Omega$  and 5.2M $\Omega$ .

When the exposed metal does not have a return path to the chassis, the reading must be  $\infty$ .

Figure 1



## 4.1.2 Leakage Current Hot Check (See Figure 1)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a 1.5k $\Omega$ , 10 watts resistor, in parallel with a 0.15 $\mu$ F capacitor, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is out of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

## 5 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 body 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  $\triangle$  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.

# 6 Handling the Lead-free Solder

## 6.1 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 soldering iron with temperature control, please set it to  $700 \pm 20^\circ\text{F}$  ( $370 \pm 10^\circ\text{C}$ ).

- 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.

# 7 Cautions to be taken when handling Optical Pickup

The laser diode used inside optical pickup could be destroyed due to static electricity as a potential difference is caused by electrostatic load discharged from clothes or human body.

Handling the parts carefully to avoid electrostatic destruction during repair.

## 7.1 Handling Optical Pickup

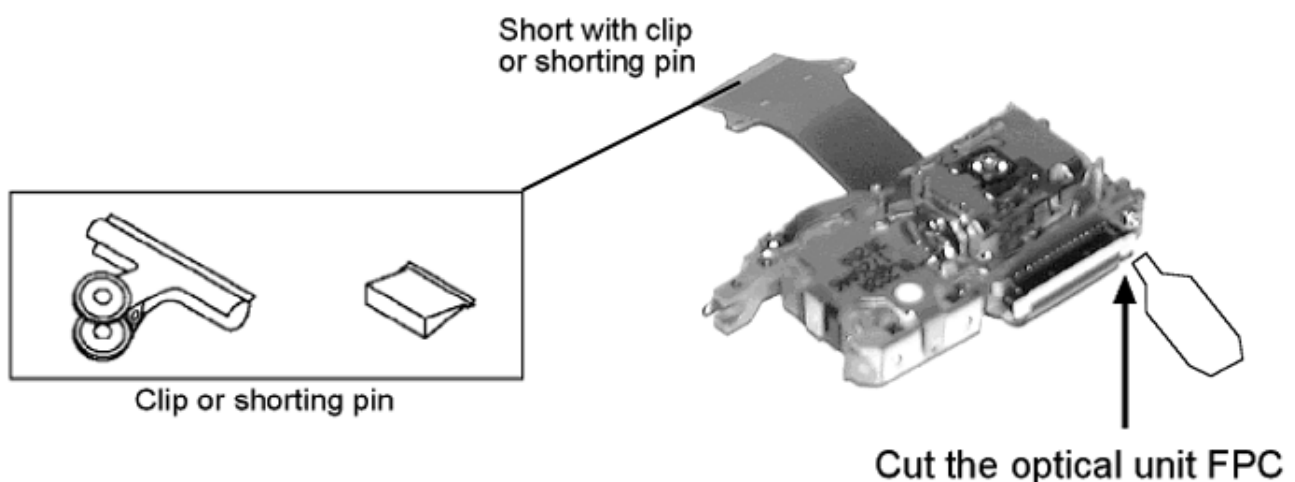
### 7.2 Replacing Precautions for Optical Pickup Unit

### 7.3 Grounding for Preventing Electrostatic Destruction

## 7.1 Handling Optical Pickup

1. Do not impact on optical pickup as the unit structurally uses an extremely precise technology.
2. Short-circuit the flexible cable of optical pickup remove from the circuit board using a short-circuit pin or clip in order to prevent laser diode from electrostatic destruction (Refer to Fig. 7.1 and Fig. 7.2)
3. Do not handle flexible cables forcibly as this may cause snapping. Handle the parts carefully (Refer to Fig. 7.1)
4. A new optical pickup is equipped with an anti-static flexible cable. After replacing and connecting to the flexible board, cut the anti-static flexible cable. (Refer to Fig. 7.1)

Fig. 7.1



## 7.2 Replacing Precautions for Optical Pickup Unit

### DVD/CD Optical Pickup

The optical pickup by which part supply was carried out attaches the short clip to the flexible board for laser diode electrostatic discharge damage prevention. Please remove the short clip and be sure to check that the short land is open, before connecting. (Please remove solder, when the short land short-circuits.)

## 7.3 Grounding for Preventing Electrostatic Destruction

### 1. Human body grounding

Use the anti-static wrist strap to discharge the static electricity accumulated in your body. (Refer to Fig. 7.2)

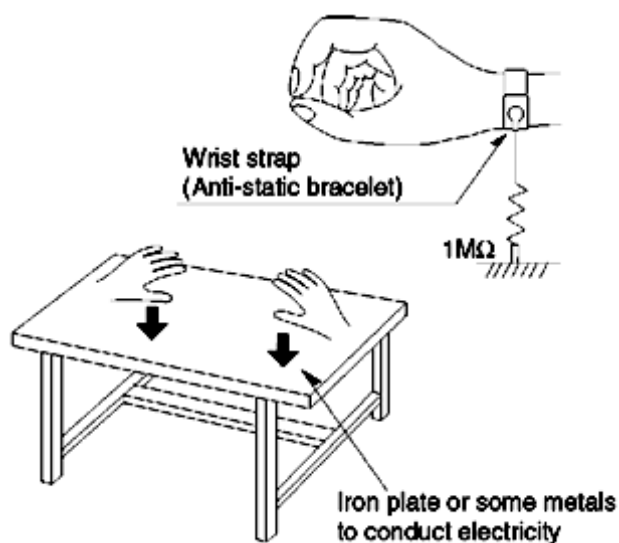
### 2. Work place grounding

Place a conductive material (conductive sheet) or ironboard where optical pickup is placed. (Refer to Fig. 7.2)

### Note :

Keep your clothes away from optical pickup as wrist strap does not release the static electricity charged in clothes.

Fig. 7.2



## 8 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 : 662 nm(CD)/785 nm(DVD) Maximum output radiation power from pick up : 100 μW/ 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. Recommend not to look at pick up lens for a long time.

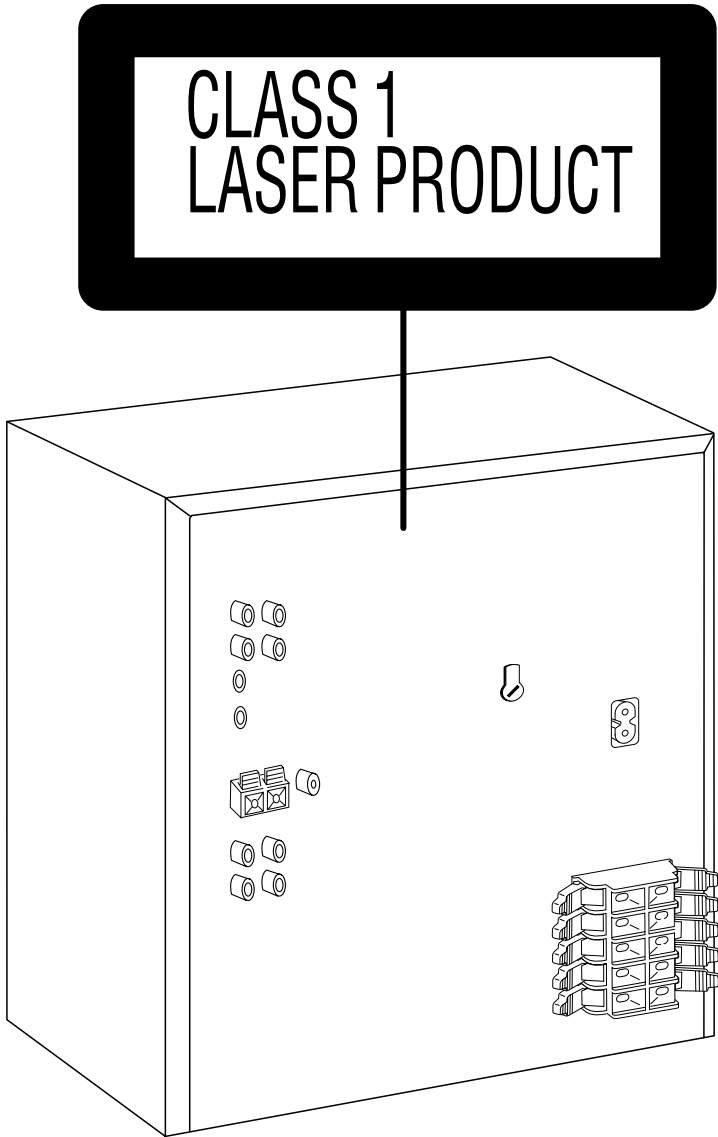
CAUTION!

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.

\_ Use of Caution Labels

|           |                                                                                                     |
|-----------|-----------------------------------------------------------------------------------------------------|
| CAUTION   | - LASER RADIATION WHEN OPEN.<br>DO NOT STARE INTO BEAM. FDA 21 CFR / Class II                       |
| CAUTION   | - VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN.<br>AVOID EXPOSURE TO BEAM. IEC60825-1 / Class 3b |
| VARNING   | - SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN.                   |
| ADVARSEL  | - SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING. UNNGÅ UDSÆTTELSE FOR STRÅLING.                        |
| ADVARSEL  | - SYNLIG OG USYNLIG LASERSTRÅLING NÄR DEKSEL ÅPNES. UNNGÅ EKSPONERING FOR STRÅLEN.                  |
| VARO!     | - AVATTAESSA OLET ALTTIINA NÄKYVÄÄ JA NÄKYMÄTÖN LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.               |
| VORSICHT  | - SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG. WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.    |
| ATTENTION | - RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE. EXPOSITION DANGEREUSE AU FAISCEAU.     |
| 注意        | - 打开时有可见及不可见激光辐射。避免激光束照射。                                                                           |
| 注意        | - ここを開くと可視及び不可視レーザー光が出ます。ビームを見たり、触れたりしないで下さい。 RQLXS0054                                             |

(Inside of product)

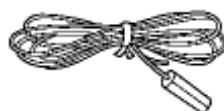


## 9 Accessories

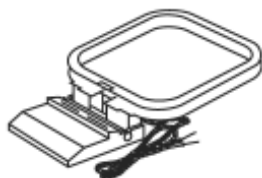
Remote Control  
N2QAJB000110



FM Indoor Antenna  
RSA0007-L



AM Indoor Antenna  
N1DAAA00001



Video Cable  
RJL1P016B15A

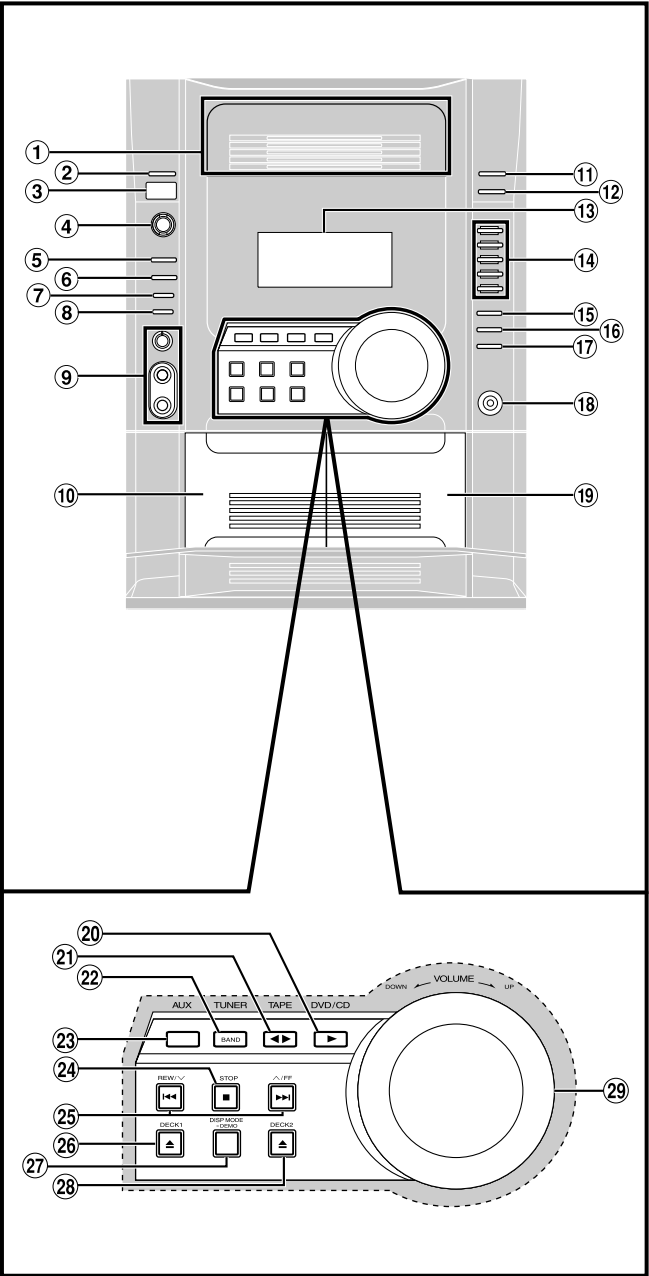




# 10 Operation Procedures

## Control de la Guía de Referencia

### Unidad Principal



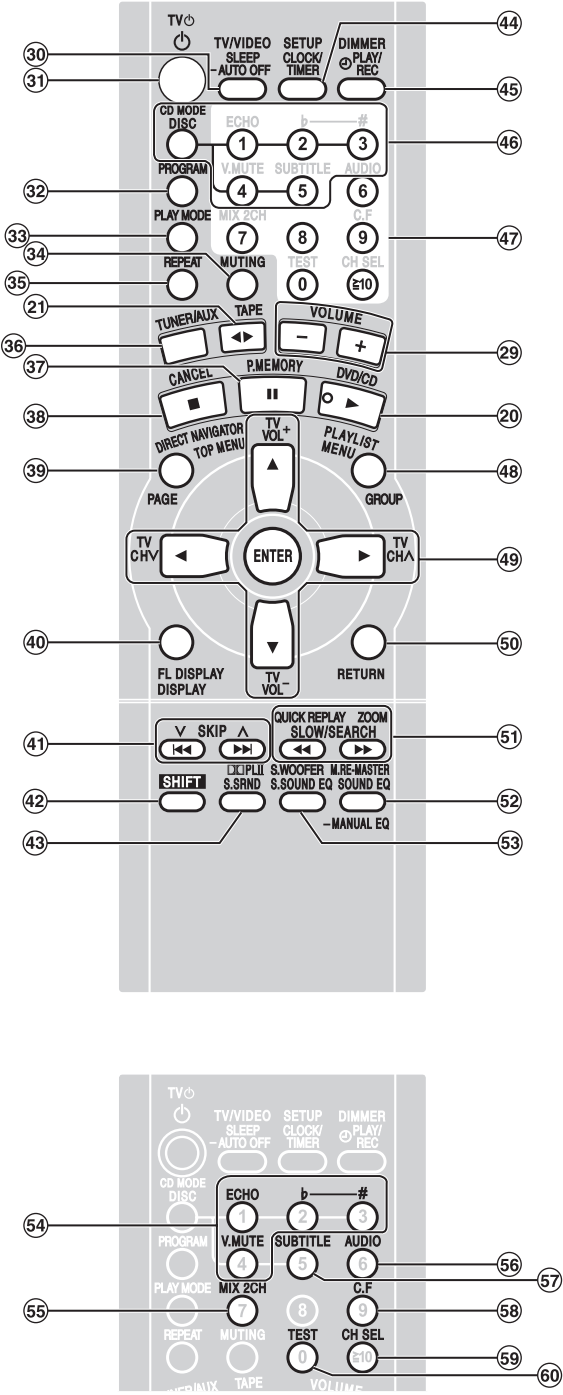
- ① Bandeja de Discos
- ② Botón para chequeo de Disco [DISC CHECK]
- ③ Sensor para la señal del Control Remoto
- ④ Indicador para el suministro de CA [AC IN]  
El indicador se enciende cuando la unidad se conecta al suministro principal CA
- Botón de encendido y modo de espera [⏻/⏷]  
Presione el botón para encender la unidad o en modo de espera. La unidad consumirá una pequeña cantidad de energía.
- ⑤ Botón Multi Re-master [MULTI RE-MASTER]
- ⑥ Botón Super Surround [SUPER SURROUND]
- ⑦ Botón selector de compartimento [DECK 1/2]
- ⑧ Botón para Grabar [● REC]
- ⑨ Control de volumen de micrófono [MIC VOL MIN, MAX]  
Entrada de micrófono [MIC 1, 2]
- ⑩ Compartimento para casete 1
- ⑪ Botón para abrir y cerrar la bandeja de Disco [OPEN/CLOSE ▲]
- ⑫ Botón para cambio de Disco [DISC CHANGE ▲]
- ⑬ Desplegado
- ⑭ Botones para reproducción directa DVD/CD [1-5]
- ⑮ Botón Super Sonido EQ [SUPER SOUND EQ]
- ⑯ Botón Sonido EQ [SOUND EQ]
- ⑰ Botón Subwoofer [SUBWOOFER]
- ⑱ Entrada para Audífonos [PHONES]
- ⑲ Compartimento para casete 2

### Consola Central

- ⑳ Botón Reproductor de DVD/CD [▶, DVD/CD]
- ㉑ Botón para reproducir y direccionar cintas [◀▶, TAPE]
- ㉒ Botón para seleccionar la banda de emisoras [BAND, TUNER]
- ㉓ Botón para reproducción de la unidad auxiliar [AUX]
- ㉔ Botón para detener una acción [■, STOP]
- ㉕ Botón para salto del disco, búsqueda, reproducción de movimiento lento, avanzar y retroceder cinta, sintonizar y ajustar emisora, ajuste del tiempo del reloj.  
[◀◀, REW/∨, ▶▶, ∩/FF]
- ㉖ Botón para abrir compartimento 1 [▲, DECK 1]
- ㉗ Modo de desplegado y botón para demostración [DISP MODE, -DEMO]
- ㉘ Botón para abrir compartimento 2 [▲, DECK 2]
- ㉙ Control de Volumen [VOLUME DOWN, UP]

# Control de la Guía de Referencia

## Control Remoto



- 30 Botón para programar el tiempo de apagado , apagado automático, televisión y video [SLEEP,-AUTO OFF, TV/VIDEO]
- 31 Botón para iniciar sesión y para apagar y encender el televisor [ ⏻ , TV ⏻ ]
- 32 Botón de Programa [PROGRAM]
- 33 Botón para seleccionar el modo de reproducción [PLAY MODE]
- 34 Botón para enmudecer el sonido [MUTING]
- 35 Botón de repetición [REPEAT]
- 36 Botón para frecuencias de radio y unidad auxiliar [TUNER/AUX]
- 37 Botón Pausa y Posición de Memoria [ ⏸ , P. MEMORY]
- 38 Botón Detener y Cancelar [ ■ , CANCEL]
- 39 Botón para seleccionar Menú, Navegador Directo y Página [TOP MENU, DIRECT NAVIATOR, PAGE]
- 40 Botón Desplegado y Desplegado FL [DISPLAY, FL DISPLAY]
- 41 Botón para salto del disco, avanzar y retroceder cinta, sintonizar y ajustar emisora, ajuste del tiempo del reloj. [ ⏮ , ⏭ , ⏪ , ⏩ ]
- 42 Botón de Cambio [SHIFT]  
Para uso en funciones con etiqueta en naranja: Manteniendo presionado [SHIFT], presione el botón correspondiente.
- 43 Botón Super surround, Dolby Pro Logic II [S.SRND, PL II]
- 44 Botón para seleccionar el modo de visualización y ajuste del reloj [CLOCK/TIMER, SETUP]
- 45 Botón para la reproducción y grabación con el tiempo, así como para opacar la iluminación [ ⏻ PLAY/REC, DIMMER]
- 46 Botón para el modo de CD, Selección de disco [DISC, CD MODE], Botón para el disco [1-5]
- 47 Botones numerados [0-9, ≥10]
- 48 Botón Menú, Lista de Reproducción y Grupo [MENU, PLAYLIST, GROUP]
- 49 Botones direccionales [ ⬆ , ⬇ , ⬅ , ➡ ], Botón ejecutar acción [ENTER]  
Estos botones siguen las siguientes funciones.  
[ ⬆ , ⬇ ]: Botones del volumen del televisor [TV VOL +, TV VOL -]  
[ ⬅ , ➡ ]: Botones para seleccionar canales del televisor [TV CH ∇ , TV CH ▲ ]
- 50 Botón para retroceder [RETURN]
- 51 Botones para sintonizar, reproducción lenta y búsqueda [ ⏮ , ⏭ , SLOW/SEARCH]  
Estos botones siguen las siguientes funciones.  
[ ⏮ ]: Botón de repetición rápida [QUICK REPLAY]  
[ ⏭ ]: Botón para cambiar el enfoque [ZOOM]
- 52 Botón Sound EQ, Manual EQ y Multi remaster [SOUND EQ, -MANUAL EQ, M.RE-MASTER]
- 53 Botón Super Sound EQ, Subwoofer [S.SOUND EQ, S.WOOFER]
- 54 Botón Eco [ECHO]  
Botones de control de llave (Key) [ b , # ]
- 55 Botón enmudecer voz [V.MUTE]
- 56 Botón para mezclar 2 canales [MIX 2CH]
- 57 Botón de Audio [AUDIO]
- 58 Botón de Subtítulo [SUBTITLE]
- 59 Botón del Foco Central [C.F]
- 60 Botón de selección de canal [CH SELECT]
- 60 Botón para señal de prueba [TEST]

# 11 Disc information

## Información del Disco

### Discos que pueden ser reproducidos

| Disco         | Logo                                                                               | Indicación para las instrucciones operables                        | Comentarios                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                      |
|---------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DVD-RAM       |   | <b>RAM</b>                                                         | Para grabar en versión 1.1 el Formato de Grabación de Video (unifica un criterio de la grabación en video)                                                                                                                                                                                                                                                                                                                                      | <ul style="list-style-type: none"> <li>• Grabar con DVD-Video grabación, DVD-Video cámaras, computadora personal, etc.</li> <li>• Quite los discos de sus cartuchos antes del uso.</li> </ul>        |
|               |                                                                                    | <b>JPEG</b>                                                        | Graba usando el criterio DCF (Design rule for Camera File system) Regla de diseño para el sistema de archivo de la Cámara.                                                                                                                                                                                                                                                                                                                      | <ul style="list-style-type: none"> <li>• Grabar con Panasonic DVD-Video grabaciones.</li> <li>• Para desplegar archivos en JPEG, seleccione "Play as Data Disc" en otro menú (→ pag. 21).</li> </ul> |
| DVD-Audio     |   | <b>DVD-A</b>                                                       | -----                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                      |
|               |                                                                                    | <b>DVD-V</b>                                                       | Algunos discos de DVD-Audio traen consigo contenido del DVD-Video. Para reproducir el contenido del DVD-Video, seleccione "Play as DVD-Video" en otro menú (→ pag. 21)                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                      |
| DVD-Video     |   | <b>DVD-V</b>                                                       | -----                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                      |
| DVD-R         |   |                                                                    | La finalización* y grabación de los Panasonic DVD-R aplica en Panasonic DVD-Video grabación o DVD-Video cámara y que son reproducidas en DVD-Video con esta unidad.                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                      |
| Video CD      |   | <b>VCD</b>                                                         | -----                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                      |
| SVCD          |   |                                                                    | Conformado para IEC62107                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                      |
| CD            |  | <b>CD</b>                                                          | Esta unidad es compatible con HDCD, pero esta no tendría soporte para una función de un nivel alto. (Una función que expande el rango dinámico de una señal de alto nivel). HDCD-encodifica mejor sonido de los CDs porque esta lo traduce con 20 bits y es comparado con 16 bits para cualquier otro CD.<br><ul style="list-style-type: none"> <li>• Durante la reproducción "HDCD" esta aparece desplegada en la unidad principal.</li> </ul> |                                                                                                                                                                                                      |
| CD-R<br>CD-RW | -----                                                                              | <b>WMA</b><br><b>MP3</b><br><b>JPEG</b><br><b>CD</b><br><b>VCD</b> | <ul style="list-style-type: none"> <li>• Esta unidad puede reproducir CD-R/RW (Disco para grabación de audio) grabando con los formatos de la izquierda. Cierre la sesión o finalice* el disco después de grabar.</li> <li>• <b>Discos HighMAT.</b><br/>Sólo archivos WMA, MP3 o JPEG.<br/>Para reproducir sin usar la función HighMAT, seleccione "Play as Data Disc" en otro menú (→ pag. 21).</li> </ul>                                     |                                                                                                                                                                                                      |

\* Un proceso que permite reproducir en un equipo compatible.

• No puede ser posible reproducir los discos anteriores en todos los casos debido al tipo de disco o la condición de la grabación.

#### ■ Discos que no pueden ser reproducidos

DVD-ROM, CD-ROM, CDV, CD-G, DVD+R,+RW,DVD-RW, SACD, Divx Video Discs y Photo CD, DVD-RAM este no puede ser removido por otro cartucho, 2.6-GB y 5.2-GB DVD-RAM, y "Chaoji VCD" disponible en el mercado incluyendo CVC,DVCD Y SVCD.

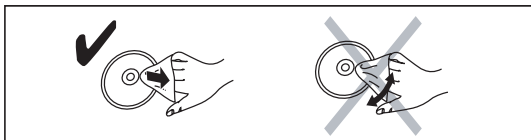
#### Reproduciendo DVDs y Video CDs

El reproductor de estos discos tiene el control como usted al escucharlos, no siempre será capaz de tener dominio al reproducirlos como se describe en este operativo de instrucciones (Por ejemplo si el tiempo de reproducción no es desplegado o si un Video CD trae consigo menús). Lea las instrucciones de los discos cuidadosamente.

#### ■ Para limpiar sus discos

**DVD-A DVD-V VCD CD**

Limpie con una tela húmeda y después límpiela con una tela seca.



**RAM DVD-R**

- Opcional si lo desea, limpie con un disc cleaner DVD-RAM/PD.
- Nunca use trapos o limpiadores para CDs, etc.

#### ■ Cuidados al manipular los discos

- No coloque discos con formas irregulares, sucios o rayados.
- No escriba en el disco con un bolígrafo u otro instrumento con punta o filo.
- No utilice aerosoles de limpieza de discos, bencina, diluyentes líquidos, antiestáticos u otro tipo de solvente.
- No pegue papeles, etiquetas o cintas en el disco. Ni utilice discos con etiquetas semi-desprendidas o con la etiqueta fuera del disco.

#### ■ Video Sistemas

- Esta unidad puede reproducir PAL y NTSC, pero su televisor deberá emparejarse al sistema usado en el disco.
- Los discos PAL no pueden verse correctamente en una televisión NTSC.
- Esta unidad puede convertir las señales NTSC para PAL 60 para verse en un televisor PAL (→ pag. 22, "Video" tab - Capacidad del disco NTSC).

#### Tips para la realización de discos WMA/MP3, CD texto y JPEG.

- Los Discos están conformados para ISO9660 nivel 1 o 2 (excepto para extender formatos).
- Esta unidad es compatible con multi-sesión pero si estas son demasiadas sesiones esto toma mas tiempo para reproducir al comenzar. Cuide el número de sesiones para evitarse al mínimo grado esta situación.

#### Nombrando archivos y carpetas

En el tiempo de grabado, prefije la carpeta y el nombre del archivo con un número de 3 dígitos en el orden que desee para reproducirlo después (esto hace que no se trabaje todo el tiempo).

Los archivos con las siguientes extensiones son:

".WMA" o ".wma"

".MPE" o ".mp3"

".JPG", ".jpg", ".JPEG" o ".jpeg"

#### WMA

No podrá reproducir archivos WMA que sean copias protegidas.

#### MP3

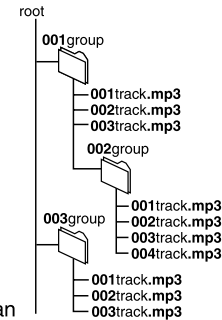
- Esta unidad no es compatible con etiqueta ID3.
- La proporción compatible 8, 11.02, 12, 16, 22.05, 24, 32, 44.1 y 48 kHz.

#### JPEG

- Para ver los archivos JPEG en esta unidad.

Tome en una cámara digital con estas condiciones de DCF (Regla de Diseño para Sistema de Archivo para Cámara) Versión 1.0. Algunas cámaras tienen funciones que no cuentan con el DCF Standard Version 1.0 que tienen rotación automática de cuadro y que en algunos casos este no es viable.

#### Ejemplo: MP3



No altere los archivos de ninguna forma o salve después sobre un nombre diferente.

Esta unidad no puede desplegar cuadros en movimiento, Movimiento en JPEG y otros formatos semejantes, aún otros cuadros en JPEG (ejemplo: TIFF) o reproducción asociada al sonido.

Windows Media y el logo Windows son marcas de fábrica, o registradas por marcas de fábrica de Microsoft Corporation en los Estados Unidos y otros países.



WMA es un formato de compresión desarrollado por Microsoft Corporation. Este logra la misma calidad de sonido en MP3 con el tamaño de archivo que es mas pequeño que de MP3.

MPEG Layer-3 audio decodificando tecnología licencia por Fraunhofer IIS y Thomson multimedia



HighMAT y el logo HighMAT son otras marcas de fábrica o registradas, marcas de fábrica de Microsoft Corporation en los Estados Unidos y otros países.

## 12 About HighMAT

### 12.1 What is HighMAT?

### 12.2 Why use HighMAT?

### 12.3 The advantages of using HighMAT

### 12.4 Outline of the HighMAT standard

## 12.1 What is HighMAT?

This word combines the abbreviations of Matsushita Electric Industrial Co. Ltd. and High Performance Media Access Technology, and is a trademark of Microsoft Corporation. The products with the HighMAT logo shown below are made according to the HighMAT standard.

HighMAT is a format that allows users to save digital contents such as photographs, audio, and images on a CD. This gives consistency in the way of reading data when general consumer products (such as DVD players) and PCs are used, and thus, it is easy to operate for the user.

## 12.2 Why use HighMAT?

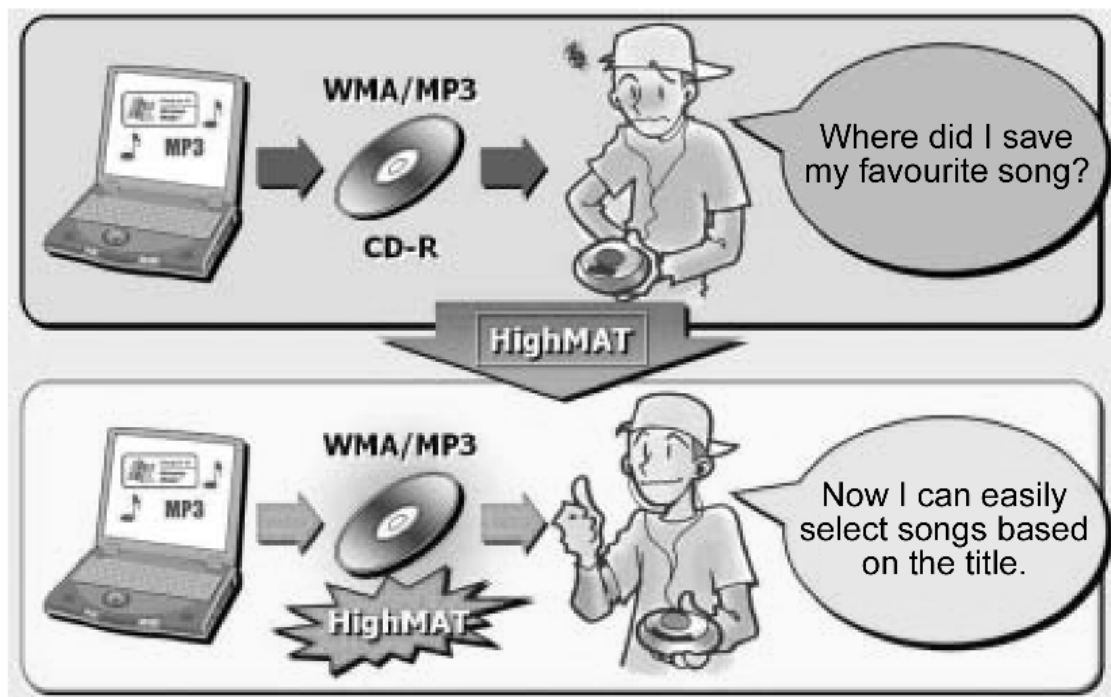
Up to now, there was no harmonized standard from playing digital content stored in CD-ROM formats (including CD-R) on consumer products like DVD players. Therefore, we used to have problems such as follow:

- There was no common play list or attached information on contents, which is called metadata.
- The data compression method differed according to the equipment.
- As the number of CD-ROMs recorded increased retrieved the contents became more difficult.
- Because display and operation methods were different depending on the equipment, the play order of the content on the same disc could change.

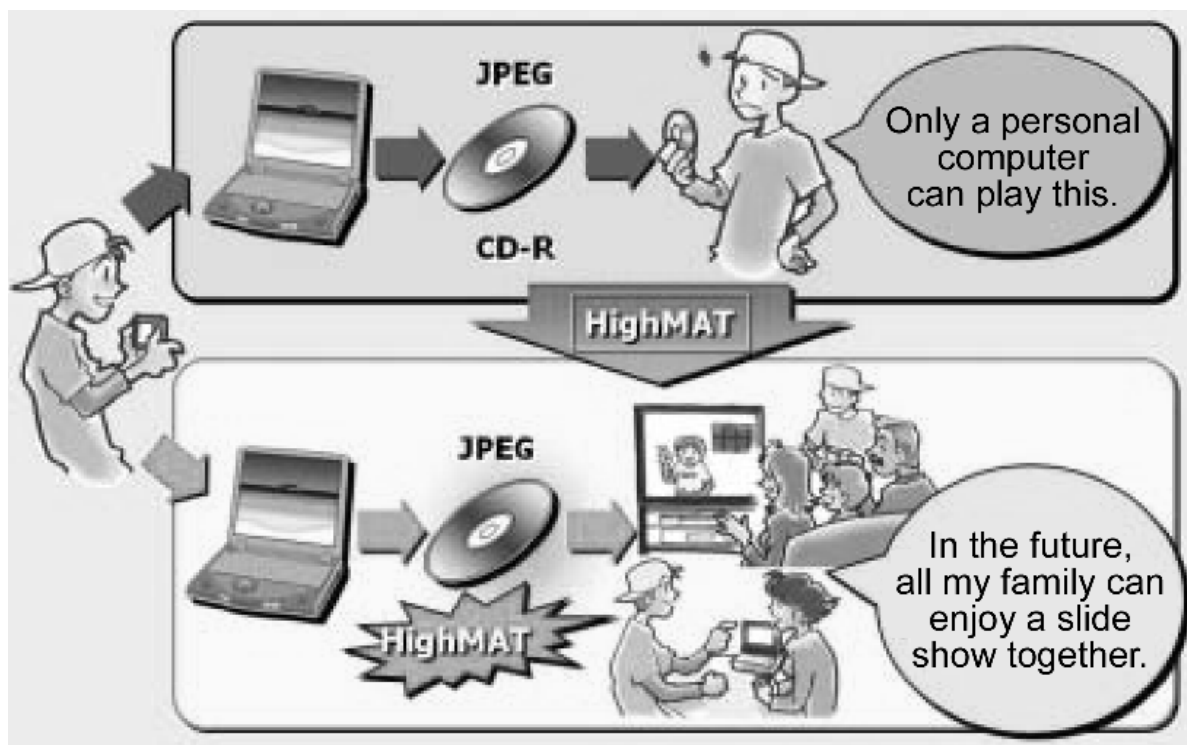
## 12.3 The advantages of using HighMAT

Applying the HighMAT standard will solve the following problems and will improve usability.

- It will create a common user interface for both PC and consumer products.



Regardless of the types of consumer products, such as DVD players, portable CD players, car stereos, and micro computers, a consistent way to pay for digital content will be created and it will make it easier to retrieve data.

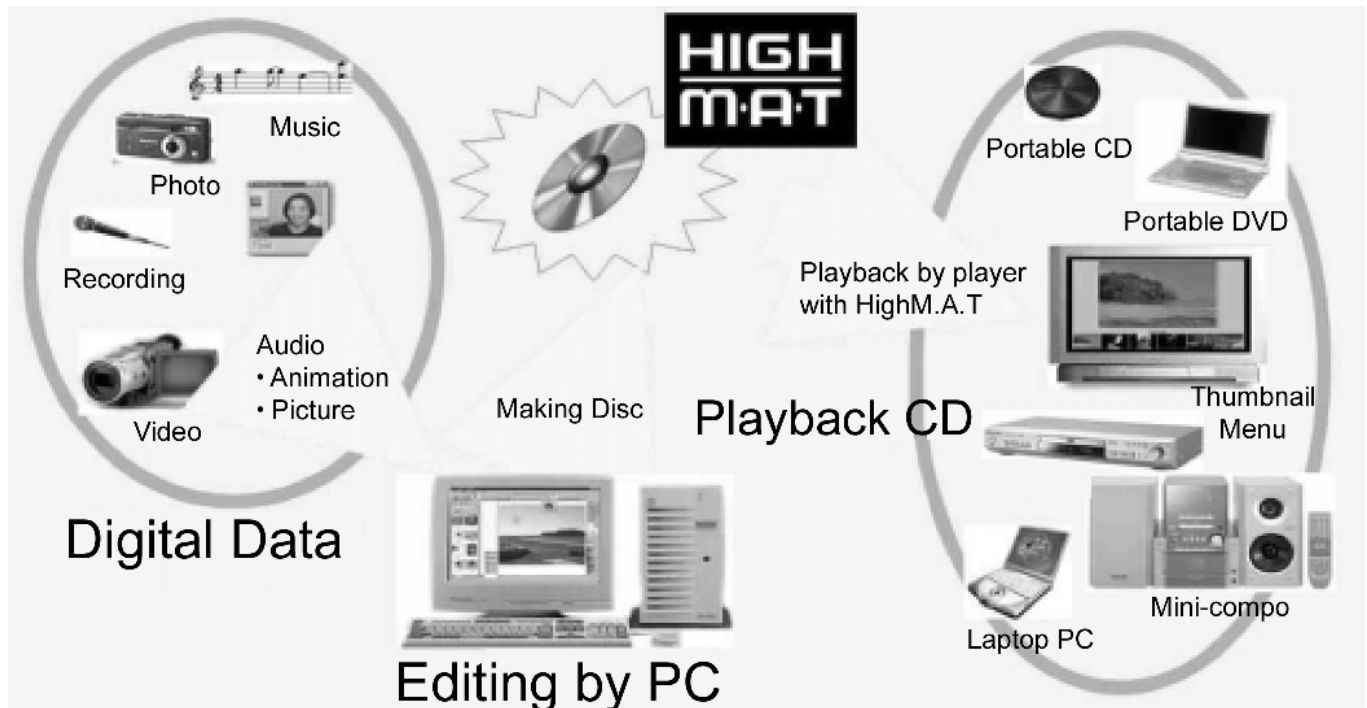


You can also play digital content on the disc, which was created in accordance with the HighMAT format with a conventional CD-ROM player.

# 12.4 Outline of the HighMAT standard

## Recording medium

- CD-R/CD-RW
- Supports ISO 9660 Level Expanded Joliet
- For multiple session



## Support data format

- Level 1 player: WMA, MP3 (MPEG-1 Audio Layer 3)
- Level 2 player: WMA, MP3 (MPEG-1 Audio Layer 3), JPEG
- Level 3 player: WMA, MP3 (MPEG-1 Audio Layer 3), JPEG, WMV, MPEG4 (optional)

## Limitation of data format

- WMA, MP3 (MPEG-1 Audio Layer 3) 64 kbps - 160.999 kbps, 44.1 KHz, stereo, fixed bit rate/ variable bit rate.
- WMA, V2 and above, excluding Lossless/Voice/Pro
- JPEG: Max 6M pixel, Maximum file size: 3 MB

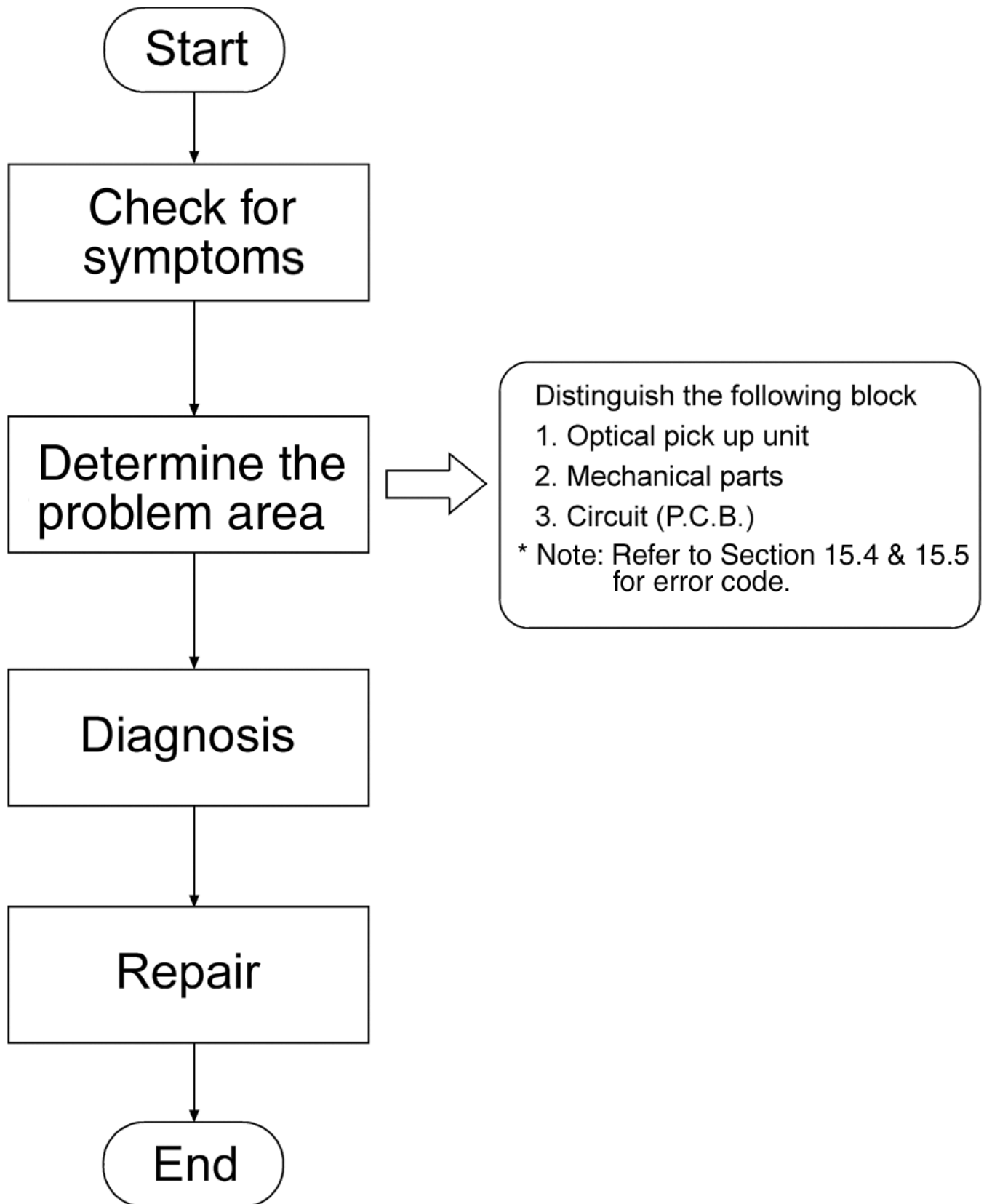
## Limitations regarding the number of files on the media, etc.

- Total number of audio files: Maximum 450
- Total number of still picture files: Maximum 999
- Total number of animation files: Maximum 200
- Total number of directories: Maximum 400
- Length of a file name: Maximum 108 characters (Unicode)
- Total number of play lists: Maximum 200
- Number of contents in the playlist: Maximum 900

## Composition of HighMAT disc

- Menu: Classified for the navigation of the HighMAT digital contents. When menu selected, its submenu or the play list will be displayed.
- Play list: A list in which one or more digital contents are arranged in order
- Group: Sub-divided group of a play list.
- Digital Contents: Audio, still picture, and animation data.

## 13 Procedure for repairing the set



### 13.1 Distinguish the problem

#### 13.1.1 Troubleshooting Guide Part 1

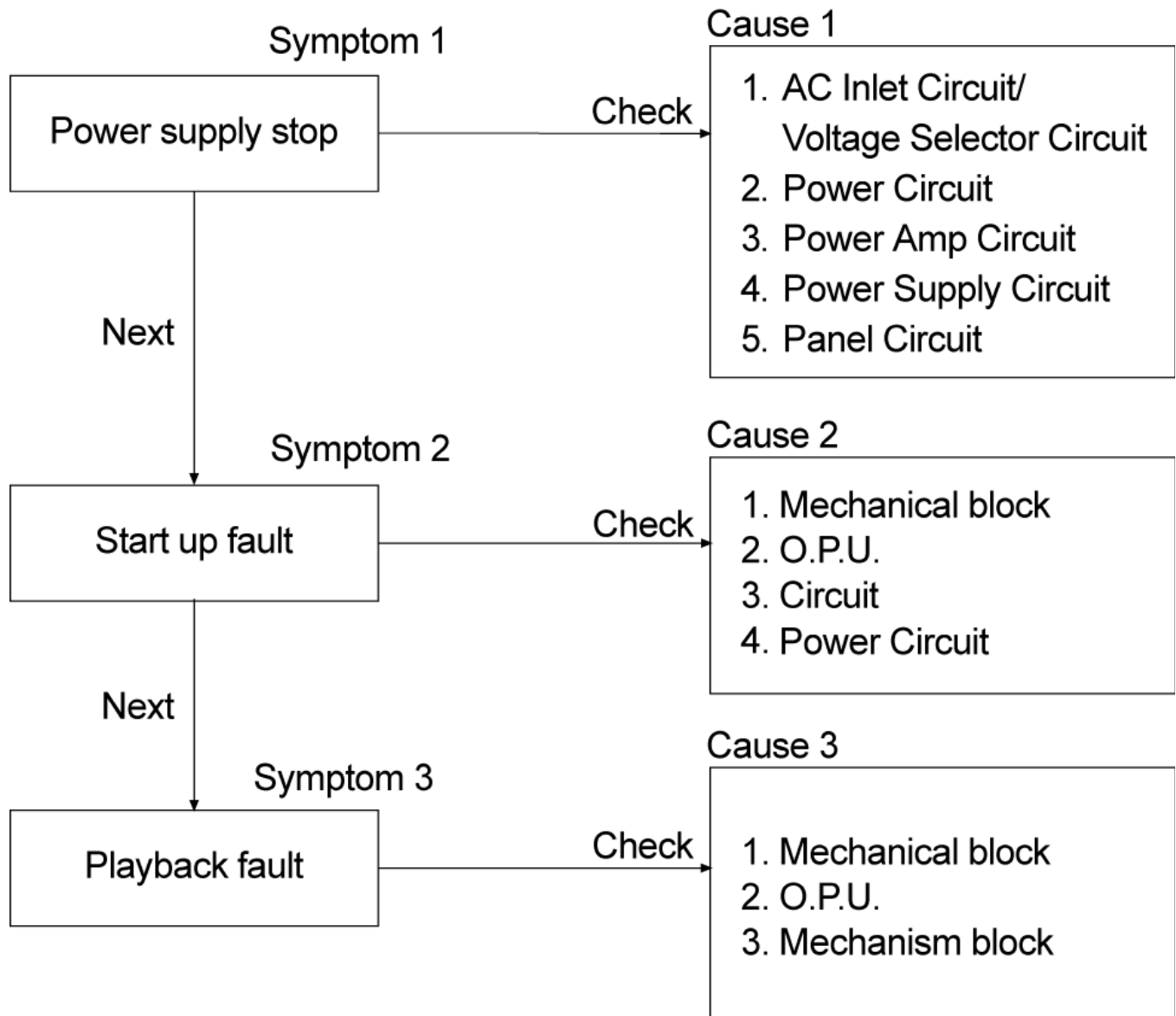
#### 13.1.2 Troubleshooting Guide Part 2

#### 13.1.3 Checking of VIDEO COMPONENT OUTPUT

### 13.2 Diagnosis of Optical Pick-up Unit

## 13.1 Distinguish the problem

- Check flow



### How to distinguish the trouble

View mechanical part if visual damage occurred.

Confirm the movement of mechanical parts assembly (tray ass'y, loading mechanism ass'y, etc.).

Diagnose if Optical Pickup Unit is faulty (refer to diagnosis of Optical Pickup Unit).

If mechanism and OPU are OK, it is P.C.B.

#### 13.1.1 Troubleshooting Guide Part 1

#### 13.1.2 Troubleshooting Guide Part 2

#### 13.1.3 Checking of VIDEO COMPONENT OUTPUT



# 13.1.1 Troubleshooting Guide Part 1

| Checking Points                                 | Possible Faults                                                                                         | Possible Reasons                                                                                                                                                                                                                             | Countermeasure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AC Inlet<br>Circuit/Voltage<br>Selector Circuit | 1. Failure to power-up the main unit.<br>2. Power On switch                                             | <ul style="list-style-type: none"> <li>Wrong selection of AC power to main unit.</li> <li>Voltage selector is faulty.</li> <li>AC inlet JK500 is faulty.</li> <li>AC Line filter L500 is faulty.</li> <li>Power On switch broken.</li> </ul> | <ul style="list-style-type: none"> <li>Replace of fuse if found faulty.</li> <li>Replace of voltage selector if found faulty.</li> <li>Replace of AC Inlet if found faulty or damaged.</li> <li>Replace AC Line filter is found faulty or damaged.</li> <li>Replace Power On button switch if necessary.</li> <li>If conditions as mentioned above is in good condition. Check for wire connection. (W1/W2/W3/W4/W6/W7). If connection is good, please proceed to check for Transformer Circuit.</li> </ul> |
|                                                 | 3. Intermittent Power supply to main unit.                                                              | <ul style="list-style-type: none"> <li>Check for connection.</li> </ul>                                                                                                                                                                      | <ul style="list-style-type: none"> <li>If condition 1 to 4 as mentioned above is in good condition. Check for wire connection. (W1/W2/W3/W4/W6/W7). If connection is good, please proceed to checkfor Transformer Circuit</li> </ul>                                                                                                                                                                                                                                                                        |
| Transformer<br>Circuit                          | 1. No power supply voltage to the Power Circuit from AC In.                                             | <ul style="list-style-type: none"> <li>Transformer no output voltage.</li> <li>Power Line filter relay RL502.</li> </ul>                                                                                                                     | <ul style="list-style-type: none"> <li>Replace of Transformer T501 if found faulty.</li> <li>Replace of Power Relay if found faulty.</li> </ul>                                                                                                                                                                                                                                                                                                                                                             |
|                                                 |                                                                                                         | <ul style="list-style-type: none"> <li>D950 open circuit.</li> </ul>                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Power Circuit                                   | 1. No supply voltage to Power Supply Circuit from Transformer Circuit. (+VccL/+VccH/-VccL/-VccH)        | <ul style="list-style-type: none"> <li>Fuse F3/F4 blown.</li> <li>Rectifier Circuit problem.</li> </ul>                                                                                                                                      | <ul style="list-style-type: none"> <li>Replace fuse F3/F4 if found faulty.</li> <li>Replace D5832/D5831/D5846/D5847 if any is found to be faulty or damage.</li> </ul>                                                                                                                                                                                                                                                                                                                                      |
|                                                 | 1. No supply voltage to Main & Power Supply Circuit from Transformer Circuit. (+VccL/+VccH/-VccL/-VccH) | <ul style="list-style-type: none"> <li>Rectifier Circuit problem.</li> <li>F5801/FP5802 open circuit.</li> </ul>                                                                                                                             | <ul style="list-style-type: none"> <li>Replace D5844 if found faulty.</li> <li>Replace FP5801/FP5802 of the same type as indicated in the part-list if found faulty.</li> </ul>                                                                                                                                                                                                                                                                                                                             |
|                                                 | 1. No supply voltage to Panel Circuit.                                                                  | <ul style="list-style-type: none"> <li>Q5815/D5835 faulty. (-VP voltage not sufficient to power FL display at - 30V)</li> <li>Q5816/D5839 faulty. (Sys 6V not sufficient to power micro-processor IC at 6V.</li> </ul>                       | <ul style="list-style-type: none"> <li>Replace Q5815/D5835 if found faulty.</li> <li>Replace Q5816/D5839 if found faulty.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                        |

## 13.1.2 Troubleshooting Guide Part 2

| Checking Points | Possible Faults                      | Possible Reasons                                                                                                                                                                                                                                | Countermeasure                                                                                                                                                       |
|-----------------|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Deck Circuit    | 1. No PLAYBACK (PB)/Rec signal.      | <ul style="list-style-type: none"> <li>IC1001 problem. (Check pin 23/24 for PB input, pin 5/20 for PB output).</li> <li>Q1013/Q1012 shorted to ground with no muting OFF.</li> <li>Q1020/Q1021 shorted to ground with no muting OFF.</li> </ul> | <ul style="list-style-type: none"> <li>Replace IC1001 if necessary.</li> <li>Replace Q1013/Q1012 if necessary.</li> <li>Replace Q1020/Q1021 if necessary.</li> </ul> |
|                 | 2. Bias frequency.                   | <ul style="list-style-type: none"> <li>L1002 /IC1004/ Q1004/Q1005 problem. Check level of bias frequency and oscillation.</li> </ul>                                                                                                            | <ul style="list-style-type: none"> <li>Replace these components if necessary when level is below specification.</li> </ul>                                           |
|                 | 3. No supply voltage (+B/M0+B)       | <ul style="list-style-type: none"> <li>See section on Panel Circuit.</li> </ul>                                                                                                                                                                 |                                                                                                                                                                      |
| Panel Circuit   | 1. FL No Display                     | <ul style="list-style-type: none"> <li>-Vp too low to power FL display.</li> <li>FL Display Driver IC problem. (IC6803)</li> </ul>                                                                                                              | <ul style="list-style-type: none"> <li>See section on Power Circuit.</li> <li>Replace IC6803 is faulty.</li> </ul>                                                   |
|                 | 2. Error codes                       | <ul style="list-style-type: none"> <li>See section on error codes (Micro-processor IC6800)</li> </ul>                                                                                                                                           |                                                                                                                                                                      |
| Main Circuit    | 1. Audio Signal (I/P & O/P) problem. | <ul style="list-style-type: none"> <li>Check for IC2815.</li> </ul>                                                                                                                                                                             | <ul style="list-style-type: none"> <li>Replace IC2815 if faulty.</li> </ul>                                                                                          |
|                 | 2. Video Signal problem.             | <ul style="list-style-type: none"> <li>Refer to below section.</li> </ul>                                                                                                                                                                       |                                                                                                                                                                      |

## 13.1.3 Checking of VIDEO COMPONENT OUTPUT

| VIDEO SIGNAL | Y              | C              | CR/PR/R         | CB/PB/B         | PY/Y/G         |
|--------------|----------------|----------------|-----------------|-----------------|----------------|
| Input        | Pin 5 (IC2809) | Pin 3 (IC2809) | Pin 14 (IC2809) | Pin 12 (IC2809) | Pin 8 (IC2809) |

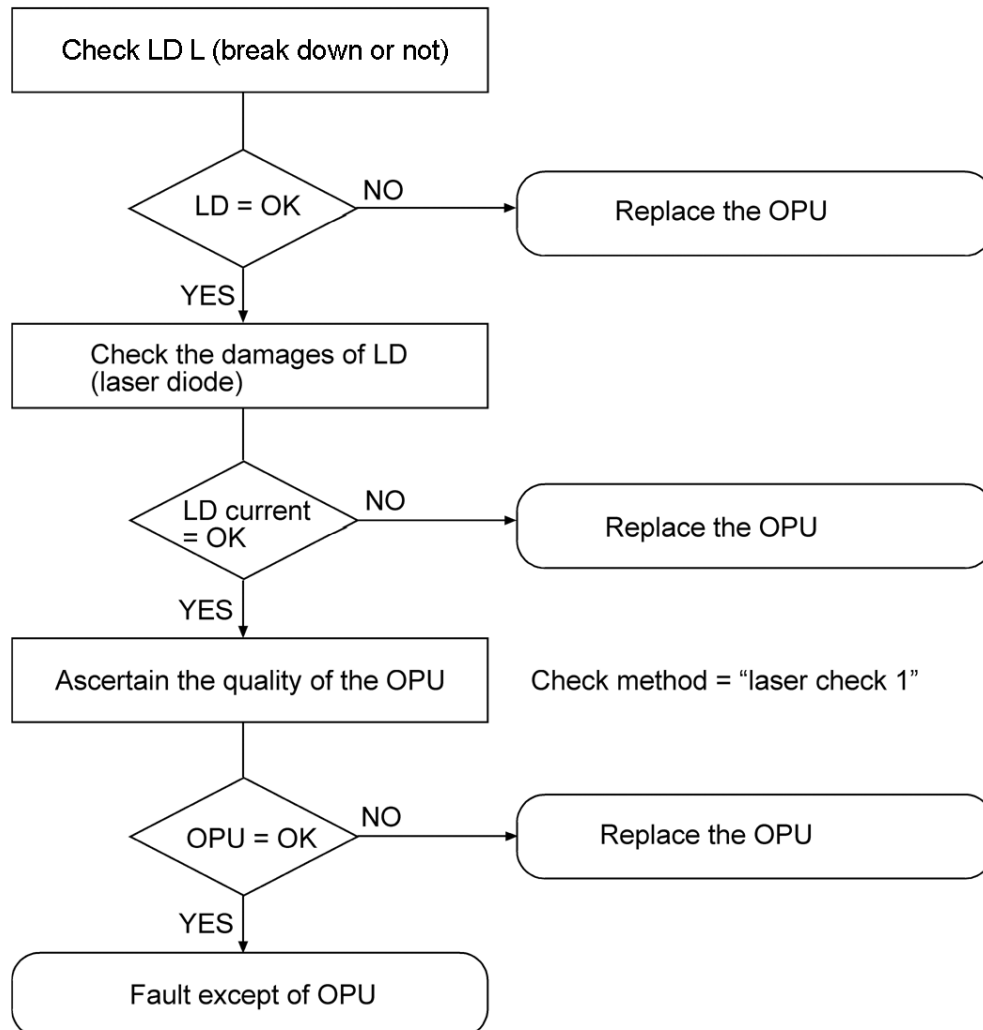
| VIDEO SIGNAL | Y                  | C               | CR              | CB/PB/B         | PY                 |
|--------------|--------------------|-----------------|-----------------|-----------------|--------------------|
| Output       | Pin 24/25 (IC2809) | Pin 32 (IC2809) | Pin 17 (IC2809) | Pin 19 (IC2809) | Pin 21/22 (IC2809) |

### Terminal Definition (IC2809 - C9ZB00000377)

| Pin No  | Pin Name        | Pin Description                                                |
|---------|-----------------|----------------------------------------------------------------|
| 21/22   | PYOUT1/PYOUT2   | Signal Output Terminal for luminance signal (progressive type) |
| 17/19   | CrOUT/CbOUT     | Signal Output Terminal for color-difference signal             |
| 32      | COOUT           | Signal Output Terminal for chroma signal                       |
| 29/30   | MIXOUT1/MIXOUT2 | Signal Output Terminal for Y/C Mix Signal                      |
| 24/25   | YOUT1/YOUT2     | Signal Output Terminal for luminance signal (interlaced type)  |
| 3/12/14 | CIN/CBIN/CRIN   | Input signal terminal for chroma signal and color difference   |
| 5/8     | YIN/PYIN        | Input signal terminal for luminance signal                     |

## 13.2 Diagnosis of Optical Pick-up Unit

Diagnosis Method  
Diagnose the OPU by the following procedure



Note : When LD does not emit light after replacing the OPU, check the LD drive circuit in the module P.C.B.

How to distinguish Laser destruction/damage

#### Confirmation 1

Remove cover of mechanism block so that you will see the lens of optical pickup.

Confirm emission of laser at the moment when power switch is turned on.

If there is no laser emission, laser diode is faulty.

#### Confirmation 2

While press and hold “STOP” on main unit , press “Display” button on the remote controller. Unit display laser current on FL.

From the reading of display, you can judge if laser diode is damaged or not.

Reading on the right side should be less than 70. If reading is more than 70, laser is damaged.

How to confirm if Optical Pickup is OK

#### Confirmation 1

1. Confirmation of jitter value with test disc. (Refer below for how to check jitter)
  2. Lens cleaning.
  3. Reconfirm jitter value.
  4. Perform tilt adjustment. (Refer to tilt adjustment)
  5. Reconfirm jitter value. (To confirm jitter value, while pressing “STOP” on main unit and “5” on remote controller.)
- Unit display jitter value on FL.

#### Confirmation 2

If servo is very unstable due to optical error and you cannot confirm jitter value, clean the lens and check appearance of pick up unit (cutting coil of actuator, etc), then check circuitry.

## 14 Optical Pickup Self-Diagnosis and Replacement Procedure

### 14.1 Self-diagnosis

#### 14.2 Cautions to Be Taken During Replacement of Optical Pickup and Spindle Motor

##### 14.2.1 Cautions to be taken during replacement of optical pickup

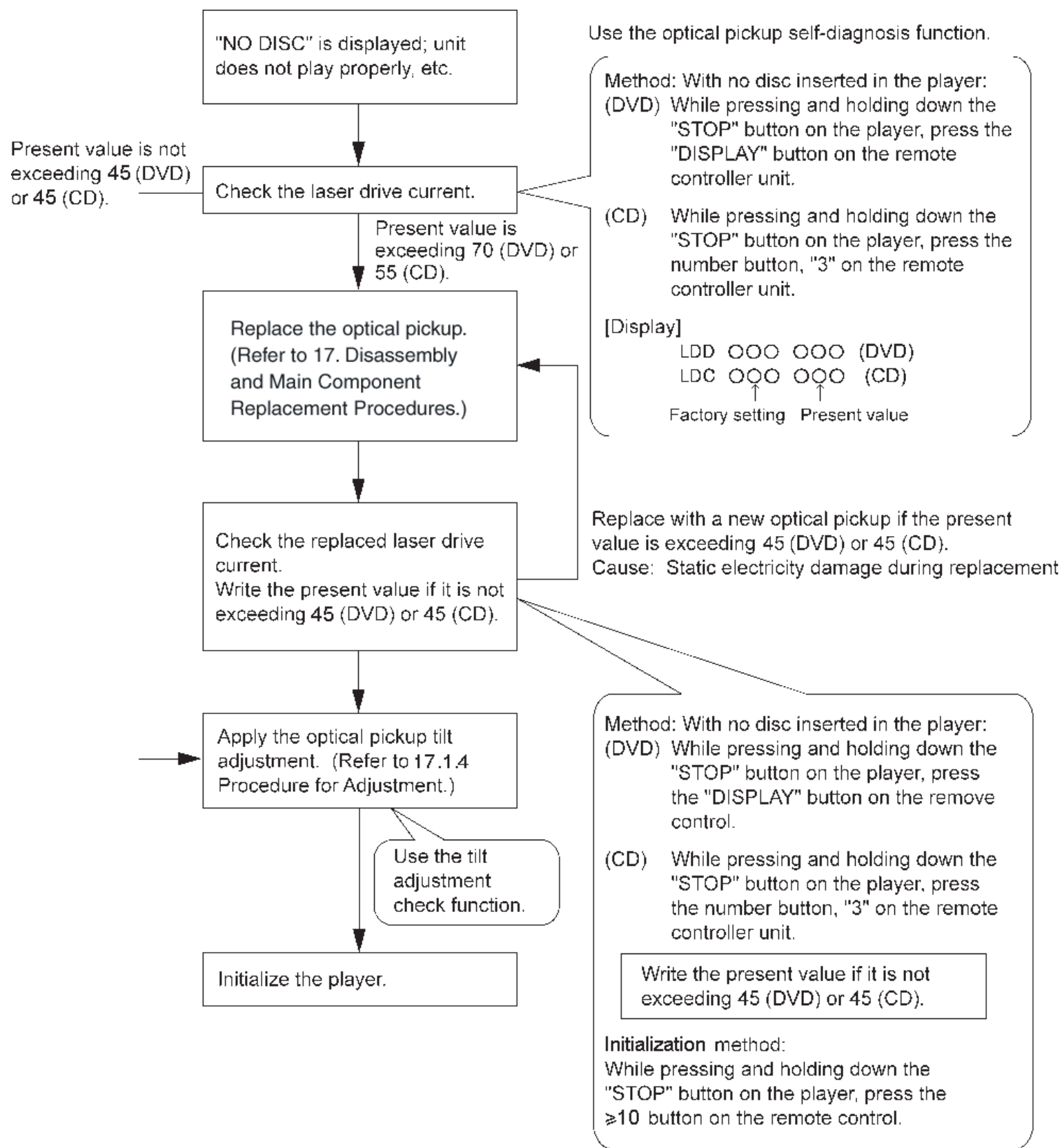
### 14.1 Self-diagnosis

This unit is equipped with the optical pickup self-diagnosis function and the tilt adjustment check function. Follow the procedure described below during repair in order to perform self-diagnosis and tilt adjustment effectively. Especially when “NODISC” is displayed, be sure to apply the self-diagnosis function before replacing with an optical pickup.

Replacement of optical pickup generally requires when the present value of laser drive exceeds 45 (DVD) or 45 (CD).

Note:

Start diagnosis within three minutes after turning on the power (as diagnosis fails when the unit becomes warm).



## 14.2 Cautions to Be Taken During Replacement of Optical Pickup and Spindle Motor

Before replacing the optical pickup and spindle motor, check a total usage time respectively. Follow the checking method described below.

| Item                               | Status and Key Function                                                                                                                                                                                                                                                                                         | Display                                                                                                 |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Checking DVD, CD laser usage time  | With the unit stopped and no disc inserted, press the.<br> button on the player and the<br> button on the remote controller unit.             | T1_xxxx_yyyy<br>xxxx(DVD), yyyy(CD): total time is displayed with a four-digit number by the ten hours. |
| Checking spindle motor usage time  | With the unit stopped and no disc inserted, press the<br> button on the player and the<br> button on the remote controller unit.              | T2_xxxxx<br>xxxxx: total time is displayed with a four-digit number by the ten hours.                   |
| Resetting DVD, CD laser usage time | While the DVD and CD laser usage times are displayed, press the<br> button on the player and the<br> button on the remote controller unit. | T1_0000_0000                                                                                            |
| Resetting spindle motor usage time | While the spindle motor usage time is displayed, press the<br> button on the player and the<br> button on the remote controller unit.     | T2_0000                                                                                                 |

### 14.2.1 Cautions to be taken during replacement of optical pickup

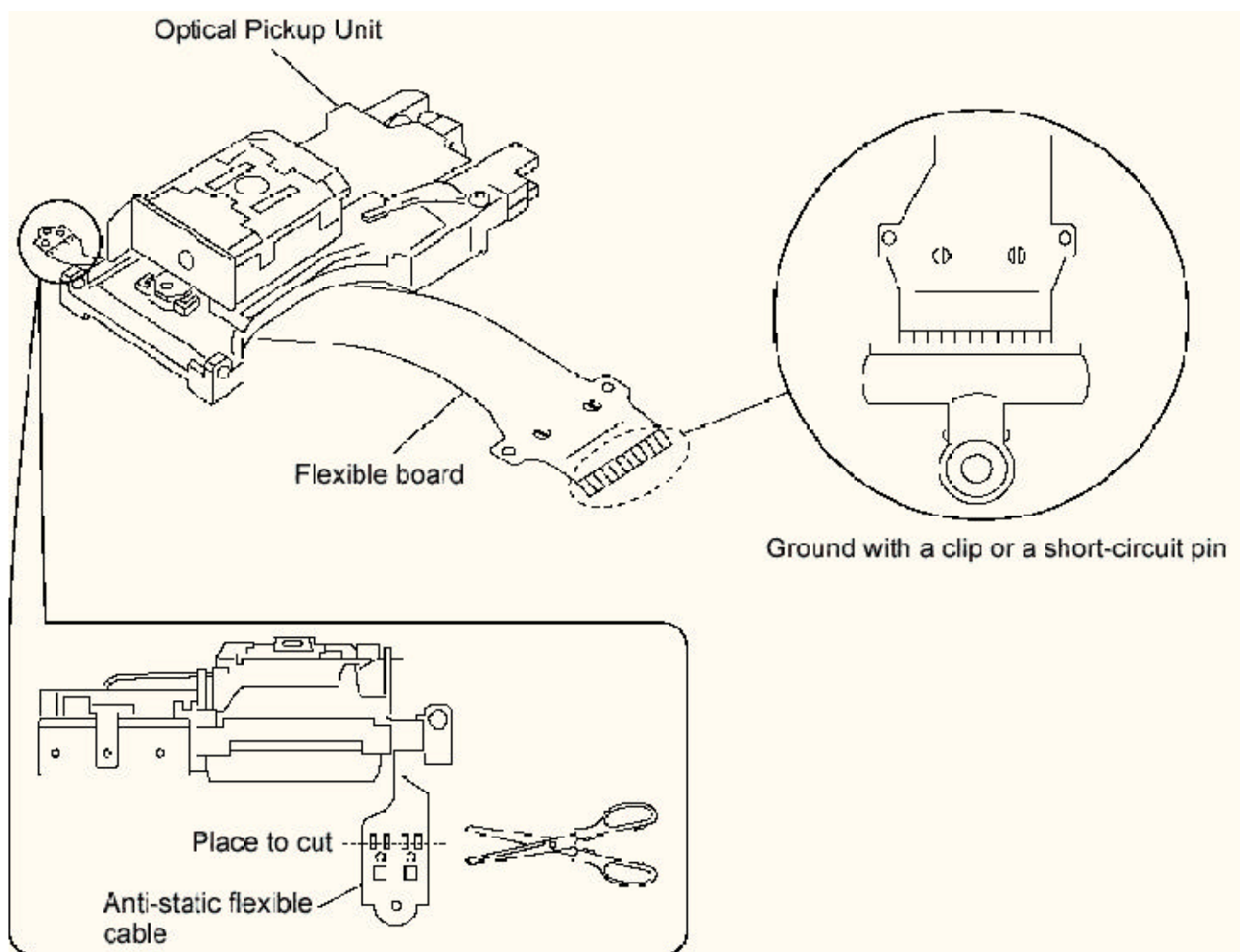
Optical pickup could be damaged due to the static electricity discharged from human body.

Wear proper protection gear against static electricity during optical pickup and its peripheral repair. (Refer to “Cautions to Be Taken When Handling Optical Pickup”.)

- Do not touch laser diode, actuator and their peripherals.
- Do not check laser diode with a tester and such. (The tester will be destroyed.)
- For short-circuiting or removing laser diode, the use of an anti-static soldering iron is recommended. (Recommended model: HAKKO ESD product)
- Solder the land of the flexible cable in the optical pickup.

Note:

If an anti-static soldering iron is not available, short-circuit the terminal surface of the flexible cable and then the land using a clip or equivalent device.



## 15 Self-Diagnosis Function

This unit is equipped with the self-diagnosis function, which displays an error when it occurs, for use during servicing.

### 15.1 Automatic Displayed Error Codes

#### 15.1.1 Automatic Display Function

#### 15.1.2 Re-Display

#### 15.1.3 Description of Error Code

### 15.2 Memorized Error Codes

#### 15.2.1 Activating Self-Diagnosis Function and Displaying Method

#### 15.2.2 Re-Display

### 15.3 Mode Table 1

### 15.4 DVD / CD Self-Diagnosis Error Code Description

### 15.5 Error Codes Stored During No Play

### 15.6 Mode Table 2

### 15.7 Tray Lock Function

#### 15.7.1 Setting

### 15.8 Things to Do After Repair

# 15.1 Automatic Displayed Error Codes

15.1.1 Automatic Display Function

15.1.2 Re-Display

15.1.3 Description of Error Code

## 15.1.1 Automatic Display Function

For a power unit error, the code is automatically displayed.

- F61:

Automatically displayed on the LCD of the player.

## 15.1.2 Re-Display

- For F61 Display

- o When the code, F61 is displayed, the power is automatically turned off.
- o The code, F61 is displayed for three seconds, and then the current time appears.
- o To retrieve the code, turn on the power button so that the code F61 appears, however, is switched to time display after three seconds, and the power is automatically turned off.

- For F76

- o The abnormalities is an output or the abnormalities in a power supply of POWER AMP.

## 15.1.3 Description of Error Code

### 15.1.3.1 F61

- State, Condition

When the power is turned on, the unit is automatically turned off. The power does not turn on.

- Cause, Troubleshooting

Power circuit system failure and/or direct current flown to speaker terminal Identify the cause and replace with new parts.

## 15.2 Memorized Error Codes

15.2.1 Activating Self-Diagnosis Function and Displaying Method

15.2.2 Re-Display



# 15.2.1 Activating Self-Diagnosis Function and Displaying Method

1. Turn on the power.
2. Select DVD/CD function. With no DVD/CD inserted in the player, press and hold down the  button for at least two seconds, and press the “0” button on the remote control for at least two seconds in order to display “DVD\_F\_ \_ \_”.
3. Press the  button. If a memorized error is detected, the result of self diagnosis is displayed.  
(Ex.: T H15)  
If several errors are detected, press the  button to display each.

## 15.2.2 Re-Display

- Press the power button to turn off the power, and then turn on the power
- The details of self diagnosis are stored in the unit memory.

To retrieve them, follow the procedure described the above, “Activating Self- Diagnosis Function and Displaying Method”.

## 15.3 Mode Table 1

Following modes are available with combinations of the pressed buttons on the player and on the remote controller unit.

| Player                                                                                        | Remote Controller Unit | Usage                                                                                                                                                  |
|-----------------------------------------------------------------------------------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br>button | 0                      | Error code display (Refer to the Item 15.4. DVD Error Code Description)                                                                                |
|                                                                                               | 5                      | Tilt adjustment (Jitter)                                                                                                                               |
|                                                                                               | 6                      | Region number and broadcasting system check                                                                                                            |
|                                                                                               | 8                      | Bulit-in program version check (Micro-P)                                                                                                               |
|                                                                                               | DISPLAY                | DVD laser drive current check                                                                                                                          |
|                                                                                               | 3                      | CD laser drive current check                                                                                                                           |
|                                                                                               | PAUSE                  | Writing of laser drive current value after replacement of optical pickup<br>(Do use this function only when optical pickup is replaced.)               |
|                                                                                               | ≧10                    | Initialization of the player (factory setting is restored.)<br>Used after replacement of micro-computer and its peripherals and printed circuit board. |

# 15.4 DVD/CD Self-Diagnosis Error Code Description

| Error Code | State, Condition                                         | Cause, Troubleshooting                                                        |
|------------|----------------------------------------------------------|-------------------------------------------------------------------------------|
| H15        | The disc tray cannot be opened: it closes spontaneously. | Disc tray open/close detection switch (S1001) failure.<br>(Check and replace) |
| H16        | The disc tray cannot be closed: it opens spontaneously.  |                                                                               |

| Error Code  | Meaning                                       | Details                                                                                               |
|-------------|-----------------------------------------------|-------------------------------------------------------------------------------------------------------|
| U. H. Error |                                               |                                                                                                       |
| U11         | Focus servo failure                           |                                                                                                       |
| H01         | Tray loading failure                          |                                                                                                       |
| H02         | Spindle servo failure                         | (Spindle servo, DSC, SP motor, CLV servo failure)                                                     |
| H03         | Traverse motor failure                        |                                                                                                       |
| H04         | Tracking servo error                          |                                                                                                       |
| H05         | Seek timeout failure                          |                                                                                                       |
| H06         | Power supply error                            |                                                                                                       |
| DSC system  |                                               |                                                                                                       |
| F500        | DSC failure                                   | DSC stops due to servo failure.<br>(Startup, focus failure, etc.)                                     |
| F501        | DSC not Ready failure                         | Communication failure between DSC and system computer<br>(No communication because DSC does not move) |
| F502        | DSC Time out failure                          | See F500.                                                                                             |
| F503        | DSC communication failure                     | Communication failure (Result failure occurs after communication command is transmitted.)             |
| F505        | DSC Attention Error                           | See F500.                                                                                             |
| F506        | Invalid media                                 | Disc is placed upside down; TOC is unreadable or invalid disc is inserted.                            |
| Disc Code   |                                               |                                                                                                       |
| F103        | Illegal highlight position                    | Disc standard is possibly illegal when highlight is displayed.                                        |
| IIC Error   |                                               |                                                                                                       |
| F4FF        | Forced initialization failure (Time out)      |                                                                                                       |
| F880        | Unsuitable task number                        | When a message arrives from not existing task                                                         |
| F890        | A message is sent during AV task transmission | During transmission of a message to AV task                                                           |
| F891        | Unable to transmit a message to AV task       | When transmission of a message to AV task starts                                                      |
| F893        | DVD Module problem                            | Check for firmware version                                                                            |
| F894        | EEPROM failure                                |                                                                                                       |
| F895        | Firmware compatibility problem                | Check for firm version for Main & DVD Module P.C.B.                                                   |
| F897        | Initialization is not done properly           | Follow proper steps for initialization & reset                                                        |
| F8A0        | Unsuitable message command                    | When transmission of a message to AV task starts                                                      |

# 15.5 Error Codes Stored During No Play

| Error Code | Meaning                                                          | System Computer Item      | Setting Task | Internal error in system computer |
|------------|------------------------------------------------------------------|---------------------------|--------------|-----------------------------------|
| F0BF       | 6) Unable to replay due to physical layer identification failure | PCND_NOPLAY_PHYSICAL 0x50 | DriveManager | 0xD0BF                            |
| F0C0       | 8) DVD: Unable to replay due to no DVD Video/Audio/VR            | PCND_NOPLAY_VIDEO 0x70    | DiscManager  | 0xD0C0                            |
| F0C1       | 9) DVD: Prohibited due to illegal regional code                  | PCND_NOPLAY_RCD 0x80      | DiscManager  | 0xD0C1                            |
| F0C2       | A) DVD: No replay due to PAL system                              | PCND_NOPLAY_PAL 0x90      | DiscManager  | 0xD0C2                            |
| F0C3       | B) DVD: All title replay prohibited in parental setting          | PCND_NOPLAY_PTL 0xA0      | DiscManager  | 0xD0C3                            |
| F0C4       | C) VCD: Prohibited due to PHOTO CD format                        | PCND_NOPLAY_PHOTOCD 0xB0  | DiscManager  | 0xD0C4                            |
| F0C5       | D) VCD/CD: Prohibited due to CD-ROM without CD-DA                | PCND_NOPLAY_CDROM 0xC0    | DiscManager  | 0xD0C5                            |

# 15.6 Mode Table 2

Following modes are available with combinations of the pressed buttons on the player and on the remote controller unit.

| Item                                                          | Operational Condition and Key Function                                                                                                                                                                                                                                                                                | Details                                                                                                                                                                                                                                                                                                                                                      | Display                                                                                                                                                                                                                                                                                                                                                          | TO Exit Mode                                     |
|---------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| Jitter display                                                | While the player is stopped and no disc is inserted, press and hold down the  button on the player and the number button, “5” on the remote controller unit.                                                                         | Jitter display<br>Measures and displays jitter. Measurement is repeated every second. Read error counter starts at 0 at the mode setting, and increased by one as data read fails at target block. A small defect is allowed to correct by retry. Any possibility is counted as one increment. Repetitive errors after retry increase by two levels or more. | J*1 xxx*2 _yyy*3 _zz*4<br><br>*1 : Jitter display mode<br>*2 : Jitter measurement value<br>*3 : Readerror counter<br>*4 : Focus driving value<br><br>Values are shown to one decimal place in the decimal digit. Focus driving value is displayed in the hexadecimal digit.                                                                                      | Press the STOP or OPEN button.                   |
| Error code display                                            | While the player is stopped and no disc is inserted, press and hold down the  button on the player and the number button, “0” on the remote controller unit.                                                                         | Error code display<br>Displays the latest error code stored in EEPROM.                                                                                                                                                                                                                                                                                       | DVDnn_F---<br>*nn: Error history<br>*--: Error number<br>DVD 01 FOBF                                                                                                                                                                                                                                                                                             | Press the OPEN button.                           |
| Measurement of laser current electricity initialization value | While the player is stopped and no disc is inserted, press and hold down the  button on the player and the  button on the remote controller unit. | Measurement of laser current electricity initialization value<br>Memorizes each initialization value of DVD and CD in EEPROM.                                                                                                                                                                                                                                | LDO*1 _013*2 _032*3<br><br>*1 : Laser current electricity measurement mode<br>*2 : DVD current electricity value<br>*3 : CD current electricity value<br><br>Values are shown in the decimal digit. The above example indicates that the current electricity initialization value is 13mA at DVD laser and 32mA at CD laser when laser is turned on.             | Automatically exits the mode after five seconds. |
| Measurement of DVD laser current electricity                  | While the player is stopped and no disc is inserted, press and hold down the  button on the player and the DISPLAY button on the remote controller unit.                                                                           | Measurement of DVD laser current electricity<br>Measures DVD laser current electricity and displays the result together with the initialization value stored in EEPROM. After measurement, DVD laser is lit till the power is turned off (or goes off when the primary power is turned off).                                                                 | LDD*1 _012*2 _014*3<br><br>*1 : DVD laser current electricity measurement mode<br>*2 : Current electricity initialization value stored in EEPROM<br>*3 : Present value of current electricity<br><br>Values are shown in the decimal digit. The above example indicates that the current electricity initialization value is 12mA and its present value is 14mA. | Automatically exits the mode after five seconds. |
| ADSC internal RAM display                                     | While the player is stopped and no disc is inserted, press and hold down the  button on the player and the number button “1” or “2” on the remote controller unit.                                                                 | ADSC internal RAM display<br>Reads and displays the RAM value inside ADSC. The address is renewed when the CLEAR key is pressed so that the values at eleven points appear.                                                                                                                                                                                  | A*1 _FB0*2 _0000*3<br><br>*1 : ADSC internal RAM display mode<br>*2 : Address<br>*3 : RAM value at displayed address<br><br>Values are shown in the hexadecimal digit. The above example indicates that ADSC value at the address, FB0h is 0000h.                                                                                                                | Press the STOP or OPEN button.                   |

|                                             |                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                    |                                                  |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| Measurement of CD laser current electricity | While the player is stopped and no disc is inserted, press and hold down the  button on the player and the number button “3” on the remote controller unit.                                                                            | Measurement of CD laser current electricity<br>Measures CD laser current electricity and displays the result together with the initialization value stored in EEPROM. After measurement, CD laser is lit till the power is turned off (or goes off when the primary power is turned off). | LDC*1 _032*2 _032*3<br><br>*1 : CD laser current electricity measurement mode<br>*2 : Current electricity initialization value stored in EEPROM<br>*3 : Present value of current electricity<br><br>Values are shown in the decimal digit. The above example indicates the current electricity initialization value is 28mA and its present value is 26mA when laser is turned on. | Automatically exits the mode after five seconds. |
| User initialization                         | While the player is stopped and no disc is inserted, press and hold down the  button on the                                                                                                                                            | User initialization<br>The user setting recovers the factory setting.                                                                                                                                                                                                                     | “INITIALIZE”                                                                                                                                                                                                                                                                                                                                                                       | -                                                |
|                                             | player and the number button  10 on the remote controller unit.                                                                                                                                                                        |                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                    |                                                  |
| Region display                              | While the player is stopped and no disc is inserted, press and hold down the  button on the player and the number button, “6” on the remote controller unit.                                                                          | Region display                                                                                                                                                                                                                                                                            | [srrrxyzzzz]<br><br>s : Panecon model type<br>rrr : Panecon release number<br>x : Syscon generation (45)<br>y : Syscon model type<br>zzz : Syscon release number                                                                                                                                                                                                                   | Automatically exits the mode after five seconds. |
| Firmware version display                    | While the player is stopped and no disc is inserted, press and hold down the  button on the player and the number button, “7” on the remote controller unit.                                                                         | Firmware version display                                                                                                                                                                                                                                                                  | rrr*1 _xx*2 y*3 zzz*4<br><br>*1 : Panel computer release number<br>*2 : System computer generation<br>*3 : System computer model type<br>*4 : System computer release number                                                                                                                                                                                                       | Automatically exits the mode after five seconds. |
| Region and firmware display                 | While the player is stopped and no disc is inserted, press and hold down the  button on the player and the number button, “8” on the remote controller unit.                                                                         | Region and firmware version display                                                                                                                                                                                                                                                       | _r*1 __xx*2 y*3 zzz*4<br><br>*1 : Region number<br>*2 : System computer generation<br>*3 : System computer model type<br>*4 : System computer release number                                                                                                                                                                                                                       | Automatically exits the mode after five seconds. |
| Laser use time                              | While the player is stopped and no disc is inserted, press and hold down the  button on the player and the  button on the remote controller unit. | Laser usage time<br>Measures each for DVD and CD respectively.                                                                                                                                                                                                                            | T1_1234_5678<br><br>The numbers in the left show usage time for DVD laser and those in the right for CD laser. The four-digit number is shown by the ten hours in the decimal digit. The number after 0000 is 9999.                                                                                                                                                                | Automatically exits the mode after five seconds. |

|                             |                                                                                                                                                                                                                                                                                                             |                                                                                                                          |                                                                                                                           |                                                  |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| Reset laser use time        | While the usage time 1 is displayed, press and hold down the<br> button on the player and the<br> button on the remote controller unit.   | Laser usage time reset<br>Resets both for DVD and CD at once.                                                            | T1_0000_0000                                                                                                              | Automatically exits the mode after five seconds. |
| Spindle use time            | While the player is stopped and no disc is inserted, press and hold down the<br> button on the                                                                                                                             | Spindle motor usage time                                                                                                 | T2_12345<br><br>The four-digit number is shown by the ten hours in the decimal digit.<br>The number after 00000 is 99999. | Automatically exits the mode after five seconds. |
|                             | player and the<br> button on the remote controller unit.                                                                                                                                                                   |                                                                                                                          |                                                                                                                           |                                                  |
| User reset                  | While the player is stopped and no disc is inserted, press “STOP” & “ENTER” on remote control.                                                                                                                                                                                                              | Reset the unit.                                                                                                          | “DVD RESET”                                                                                                               | Automatically exits the mode after five seconds. |
| Reset spindle use time      | While the usage time 2 is displayed, press and hold down the<br> button on the player and the<br> button on the remote controller unit. | Usage time 2 reset<br>Spindle motor usage time                                                                           | T2_00000                                                                                                                  | Automatically exits the mode after five seconds. |
| Communication error display | While the player is stopped and no disc is inserted, press and hold down the<br> button on the player and the MENU button on the remote controller unit.                                                                 | Displays frequency of communication errors between system computer firm IC and mechanical computer IC during DVD module. | ERR_00/30                                                                                                                 | Automatically exits the mode after five seconds. |

## 15.7 Tray Lock Function

### 15.7.1 Setting

#### • Disc Lock Function

1. With the SELECTOR on DVD/CD and POWER ON, hold down the [ STOP] KEY on the main unit, and then press the [POWER] KEY on the remote control for 3 seconds to enter toLock mode A.[\_ \_ \_LOCKED\_] will be displayed for 3 seconds, and then current disc will begin playing.
2. In Lock mode A, the following key is disabled.  
[OPEN/CLOSE]

1. With the SELECTOR on DVD/CD and POWER ON, hold down the [CD PLAY] KEY on the main unit, and then press the [POWER] KEY on the remote control for 3 seconds to enter Lock mode B.

[ \_ \_ \_ LOCKED \_ ] will be displayed for 3 seconds, and the current disc will begin playing.

2. Lock mode B primarily controls the selector and disc operations, and disenables for the following keys.

Note:



OPEN/CLOSE

button are invalid and the player displays “\_\_\_LOCKED\_” while the lock function mode is entered.

- Prohibiting operation of selector and disk

1. Select the DVD/CD function.

2. Press and hold down the button  on the player and the power button on the remote controller unit for at least three seconds. (The message, “\_\_\_LOCKED\_” appears when the function is activated.)

Note:

- The following buttons are invalid and the player displays “\_\_\_LOCKED\_” while the lock function mode is entered.

Main unit: PLAY , PAUSE  , STOP  ,  OPEN/CLOSE ,  SKIP  ,  
DISC EXCHANGE ,  / REVERSE ,  / FORWARD

Remote control: PLAY MODE , CANCEL , PLAY , MENU ,  
TOP MENU , ENTER

## 15.8 Things to Do After Repair

Follow the procedure described below after repair.

1. While the power is on, press the  button to close the tray.
2. Press the power button to turn off the power.
3. Unplug the power cable.

Note:

It is prohibited to unplug the power cable while the tray is opened and to close the tray manually.

## 16 Cautions To Be Taken During Servicing

16.1 Recovery after the dvd player is repaired

16.2 DVD Player Firmware Version Upgrade Process

16.3 Firmware Version Upgrade Process by Using Disc and Recovery Process

16.3.1 Self-Diagnosis Function

16.4 Using Recovery Disc

16.4.1 Recovery Process

16.4.2 Version Upgrade Process

16.5 Total Usage Time Display

16.6 After replacement of DVD Module

## 16.1 Recovery after the dvd player is repaired

- When Flash ROM or module(2) P.C.B. is replaced, carry out the recovery processing to optimize the drive. Playback the recovery disc to process the recovery automatically.
- Recovery disc (Product number=RFKZD03R005)
- Performing recovery

1. Load the recovery disc (Product number: RFKZD03R005) to the player and run it.
2. Recovery is performed automatically. When it is finished, a message appears on the screen.
3. Remove the recovery disc.
4. Turn off the power.

## 16.2 DVD Player Firmware Version Upgrade Process

Firmware of DVD player may upgrade to conform to improvement of its performance and quality including operational range, playability of non-standardized discs, etc. The version upgrade disc contains the recovery function, and the recovery disc is not necessary.

Note:

Version upgrade process cannot be complete if the AC power is cut off due to power failure and other occasions during the process. If this occurs, replace FLASH ROM IC and restart version upgrade. Version upgrade disc number is informed when ordered.

## 16.3 Firmware Version Upgrade Process by Using Disc and Recovery Process

- Recovery process
- Firmware version upgrade process

Both of the above procedures automatically start when the recovery disc is replayed. General CD-R disc allows version upgrade process and recovery process, making version upgrade through disc simple.

Recovery process: Optimization process of player after replacement of FLASH ROM, EEPROM, or module circuit board  
Version upgrade process: Renewal of firmware for improvement of operational range and performance

### 16.3.1 Self-Diagnosis Function

- Total usage time display (spindle motor, DVD/CD laser)
- ADSC internal RAM display
- Others: Last error count.....20 items

Efficiency of failure diagnosis is expected to improve by using the above functions together with the repair process.  
[Purpose of Use]

Total usage time display: used for estimating a failure due to exhausted spindle motor, laser, or other parts.

ADSC internal RAM display: used for deciding servo system failure according to servo learning values.

# 16.4 Using Recovery Disc

- 16.4.1 Recovery Process
- 16.4.2 Version Upgrade Process

## 16.4.1 Recovery Process

1. Insert the recovery disc (RFKZD03R005) to the player to replay.
2. The recovery process automatically starts, and a message of completion prompts on the screen.
3. Remove the disc.
4. Turn off the power.

## 16.4.2 Version Upgrade Process

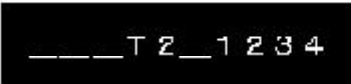
1. Insert the recovery disc to the player to replay.
2. The version of player is automatically checked and prompts if necessary.
3. Select version upgrade process using the cursor keys on the remote controller unit.  
(Select YES or NO)
4. a. If YES is selected, the process starts.  
b. If NO is selected, only the recovery process is applied.
5. a. When the version upgrade process is complete, a message of completion appears on the screen. Remove the disc.  
b. Follow the instruction appearing on the screen, and remove the disc.
6. Turn off the power.

# 16.5 Total Usage Time Display

1. Details of Operation/Display



Total usage time of DVD/CD lasers  
Time is shown by the ten hours in the decimal digit.



Total usage time of spindle motor  
Time is shown by the ten hours in the decimal digit.

Keys for Operation:

- Laser usage time: While the player is stopped and no disc is inserted, press both the button on the player and the button on the remote controller unit.
- Spindle motor usage time: While the player is stopped and no disc is inserted, press both the button on the player and the button on the remote controller unit.

To reset the usage time, while the usage time is displayed:

- Laser usage time: press both the button on the player and the button on the remote controller unit.
- Spindle motor usage time: press both the button on the player and the button on the remote controller unit.

## 2. Purpose of Use

- To obtain reference data of laser and spindle motor systems during failure diagnosis.
- To check faulty parts during re-repair.



## 16.6 After replacement of DVD Module

Below steps is to be performed after changing of DVD Module

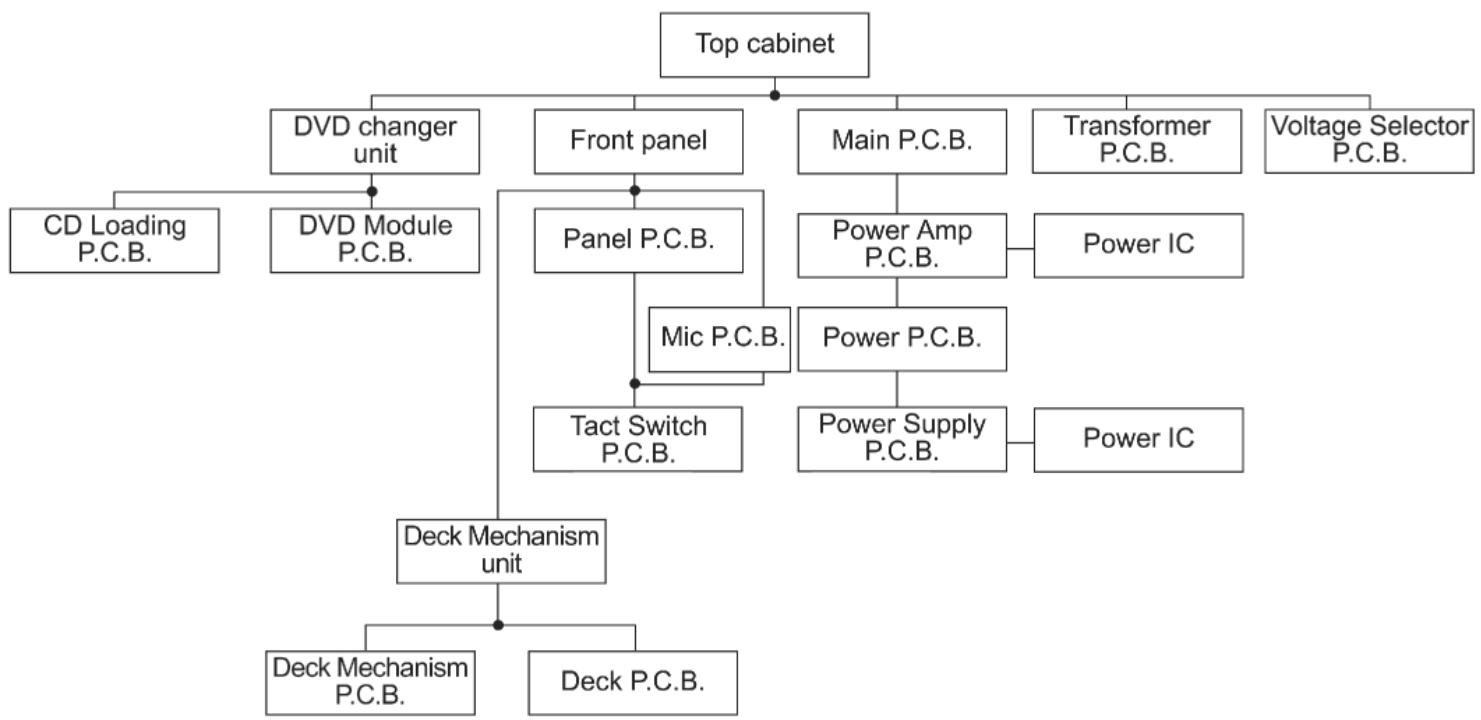
1. Press  on remote control while pressing “STOP” on main unit.
2. FL will display “INITIALIZE”.
3. Press “STOP” & “ENTER” on remote control (For reset of unit)
4. FL will display “DVD RESET” before change to TOC reading again.
5. Power off the set. Unplug AC cord & wait for few seconds.
6. Plug in AC cord & power on set.

## 17 Disassembly and Assembly of Main Component

- 17.1 Disassembly flow chart
- 17.2 Disassembly of Top Cabinet
- 17.3 Disassembly for DVD changer unit
  - 17.3.1 Disassembly of the DVD Module P.C.B.
- 17.4 Disassembly for Panel P.C.B., MIC P.C.B. & Tact Switch P.C.B.
  - 17.4.1 Disassembly of Lid
- 17.5 Disassembly of Main P.C.B., Power P.C.B., , Power Amp P.C.B., Power Supply P.C.B., Transformer P.C.B. & Voltage Selector P.C.B.
  - 17.5.1 Disassembly of Power Amp P.C.B.
  - 17.5.2 Disassembly of Power P.C.B.
  - 17.5.3 Disassembly of Power Supply P.C.B.
  - 17.5.4 Disassembly of Transformer P.C.B. & Voltage Selector P.C.B.
- 17.6 Replacement for traverse deck
- 17.7 Replacement for optical pickup unit (DVD mechanism)
- 17.8 Procedure for removing CD loading mechanism
- 17.9 CR16 mechanism disassembly procedure
  - 17.9.1 Gear for servicing information
  - 17.9.2 Replacement for the disc tray
  - 17.9.3 Replacement for the traverse deck
  - 17.9.4 Disassembly for CD loading unit
- 17.10 CR16 MECHANISM ASSEMBLY PROCEDURE
- 17.11 Disassembly for Traverse Unit
- 17.12 Disassembly of Deck Mechanism Unit
  - 17.12.1 Replacement for the CD motor ass’y, capstan belt A, capstan belt B and winding belt
- 17.13 Replacement for the cassette lid ass’y
- 17.14 Counter-measure for tape trouble

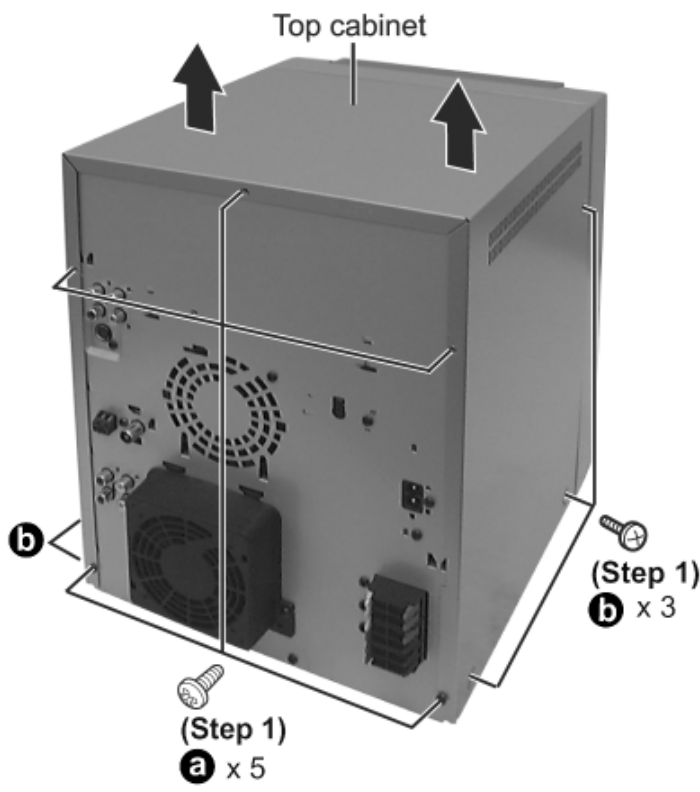
# 17.1 Disassembly flow chart

The following chart is the procedure for disassembling the casing and inside parts for internal inspection when carrying out the servicing.  
To assemble the unit, reverse the steps shown in the chart as below.



# 17.2 Disassembly of Top Cabinet

- 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 top cabinet.



## 17.3 Disassembly for DVD changer unit

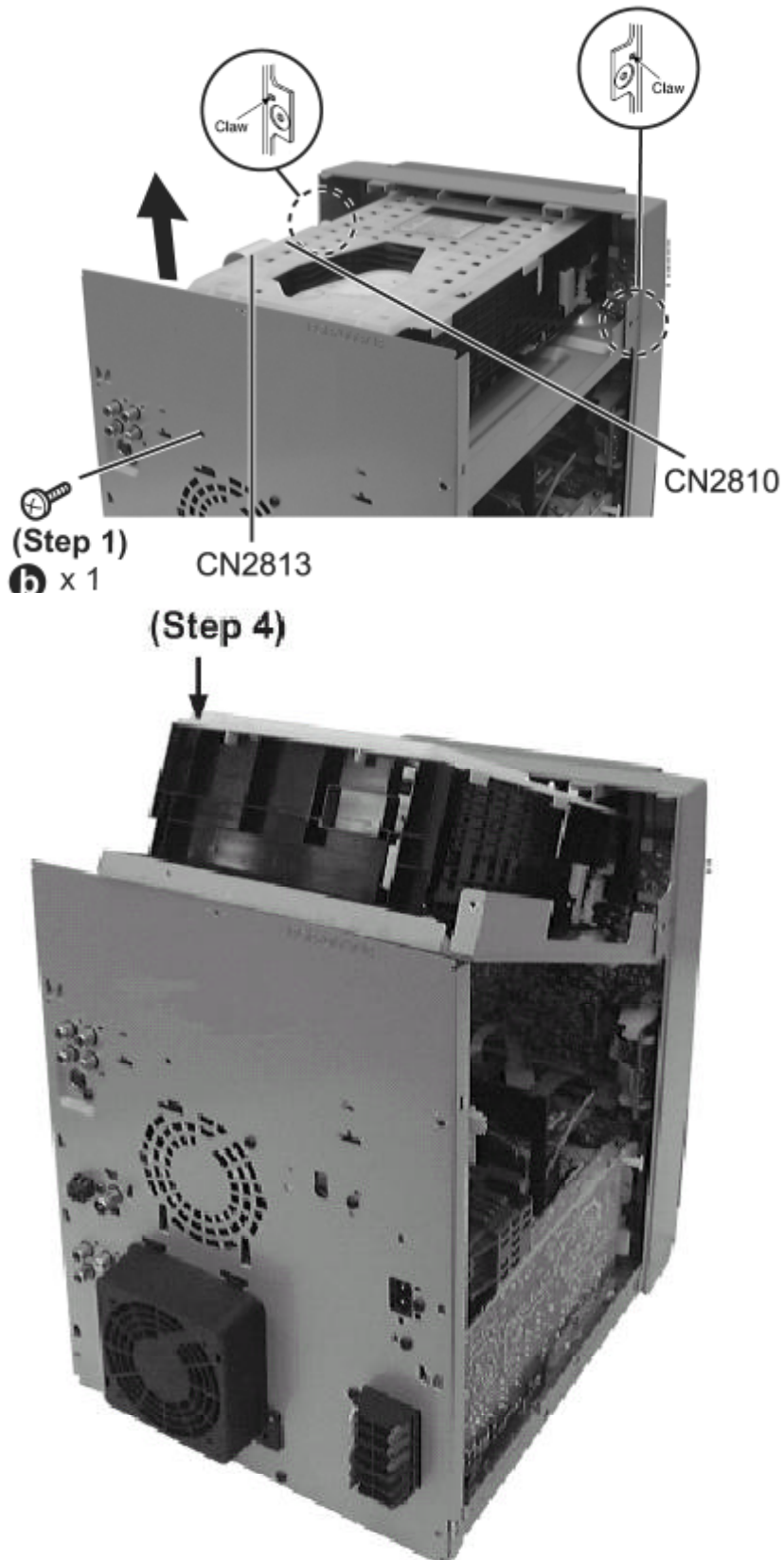
• Follow the (Step 1) - (Step 2) of Item 17.2.

Step 1 Detach FFC Boards (CN2811 & CN2815).

Step 2 Remove 1 screw at rear cabinet as show below.

Step 3 Lift the DVD changer unit upwards.

Step 4 Release the claws on both ends, and remove the DVD changer unit.

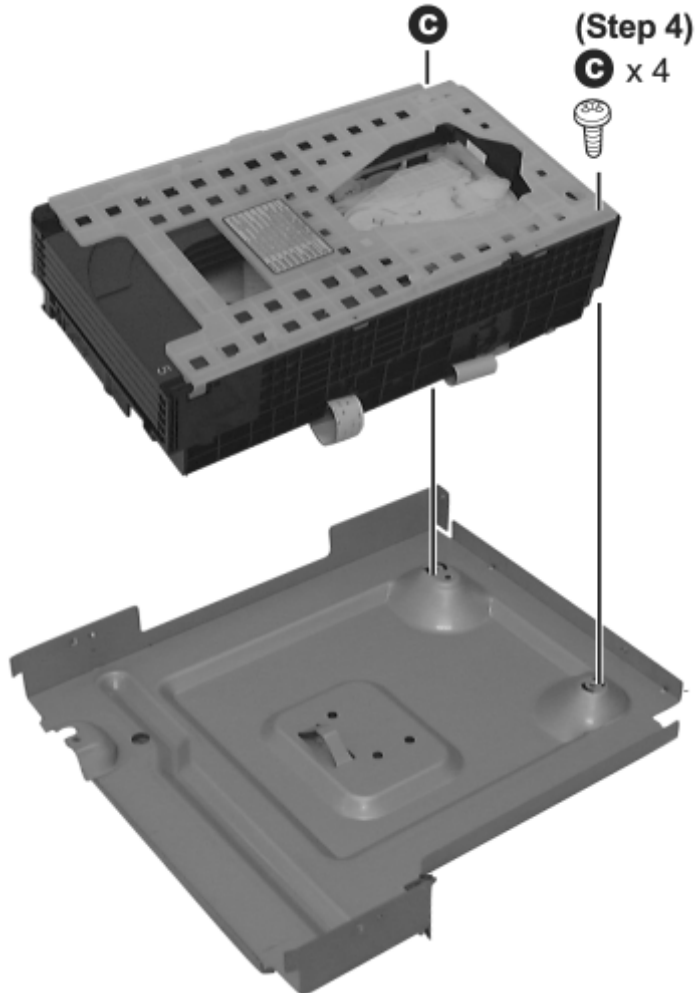


### 17.3.1 Disassembly of the DVD Module P.C.B.

## 17.3.1 Disassembly of the DVD Module P.C.B.

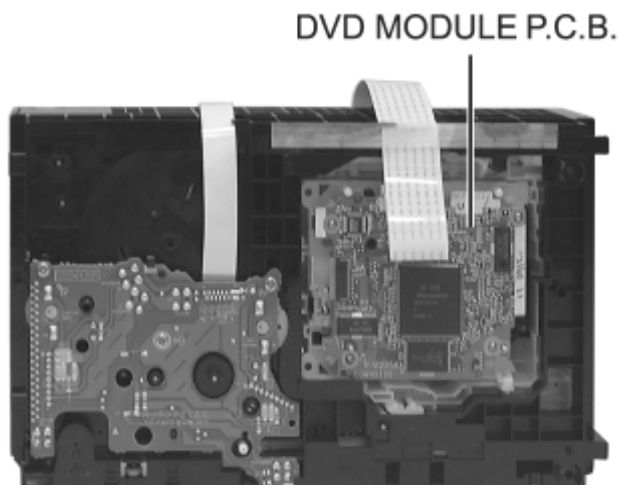
- Follow the (Step 1) - (Step 2) of Item 17.2.
- Follow the (Step 1) - (Step 4) of Item 17.3.

Step 1 Remove 2 screws.



Step 2 Remove the mechanism unit cover.

Step 3 Lay the unit.

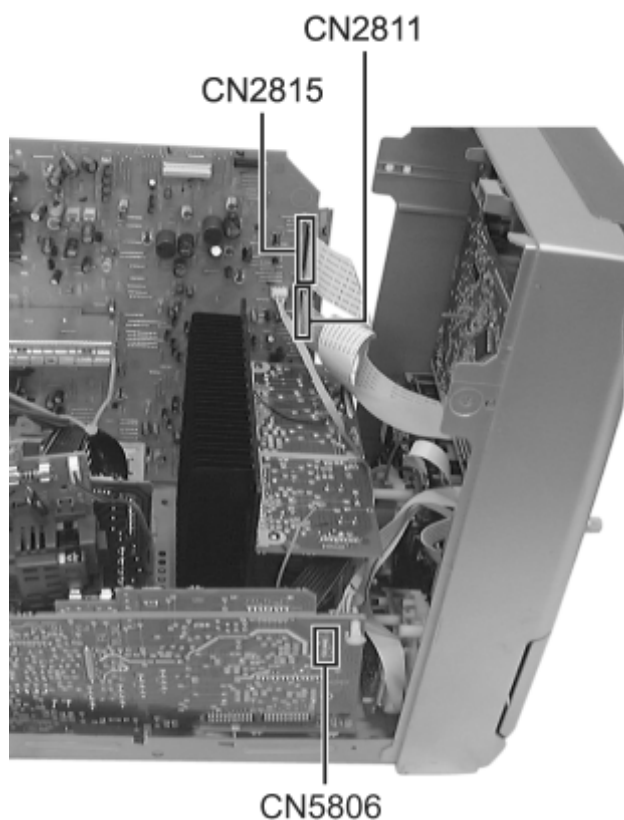


## 17.4 Disassembly for Panel P.C.B., MIC P.C.B. & Tact Switch P.C.B.

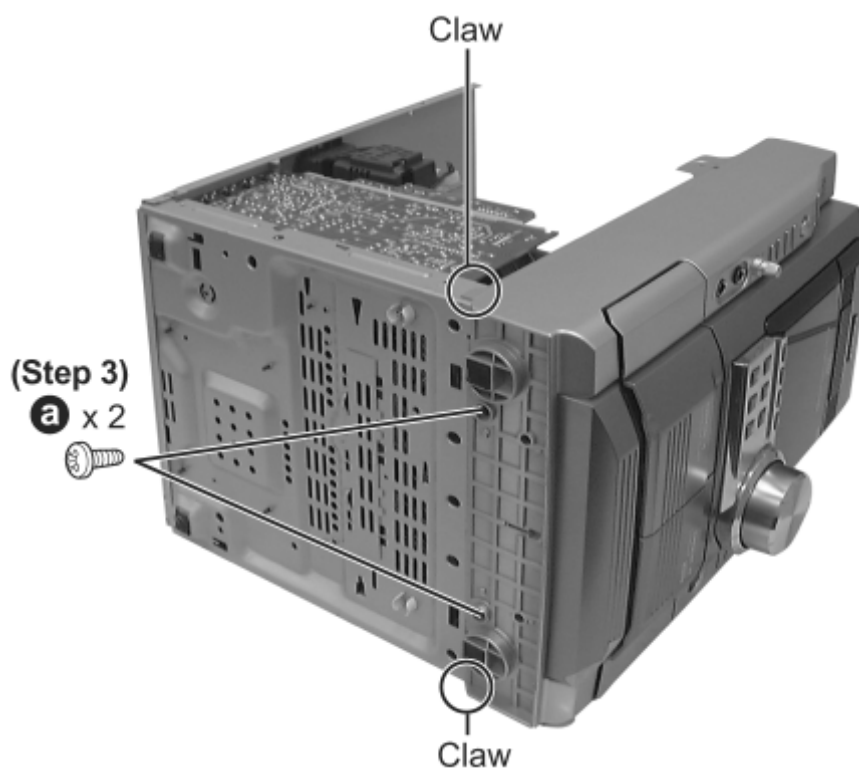
- Follow the (Step 1) - (Step 2) of Item 17.2.

- Follow the (Step 1) - (Step 4) of Item 17.3.

Step 1 Disconnect FFC board (CN2811 , CN2815 & CN5806).



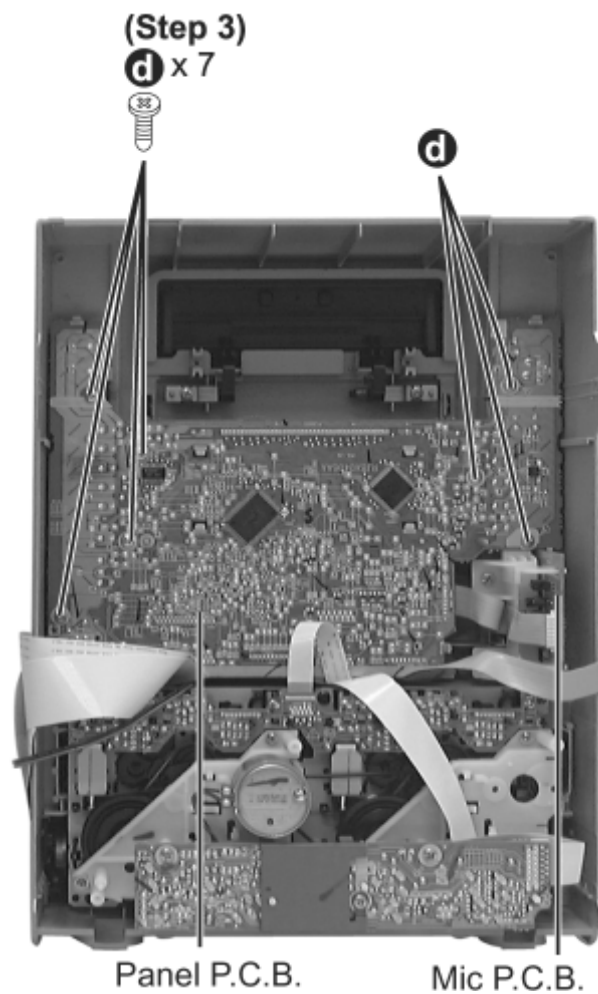
Step 2 Lay the unit as shown below.



Step 3 Remove 2 screws at the bottom chassis.

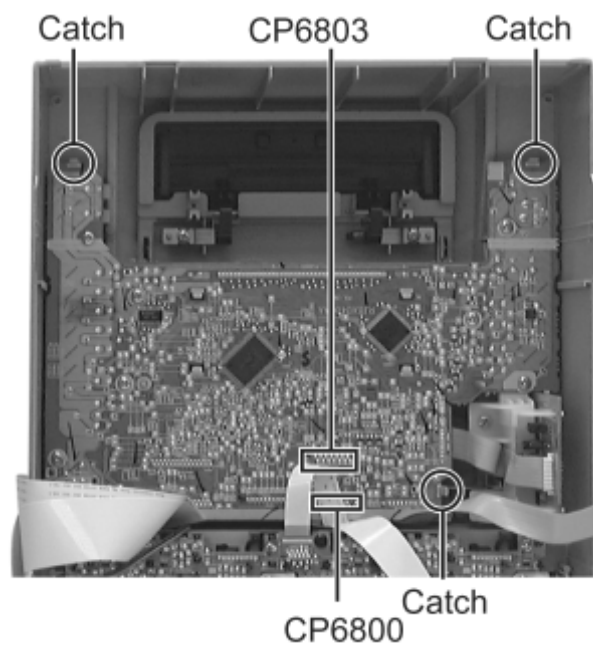
Step 4 Release the 2 claws, and then draw the front panel ass'y forward.

• Disassembly of Panel P.C.B. & Mic P.C.B.

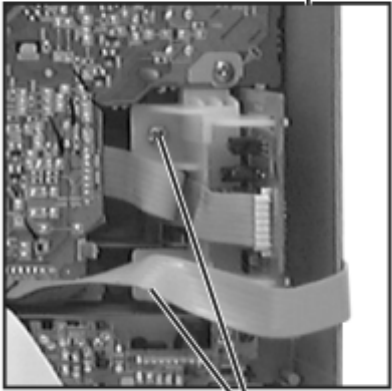
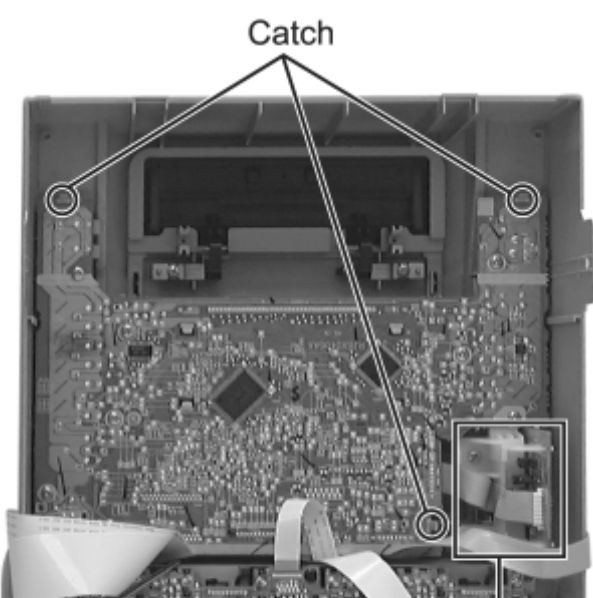


Step 5 Remove 7 screws.

Step 6 Detach FFC board (CP6803 & CP6800).

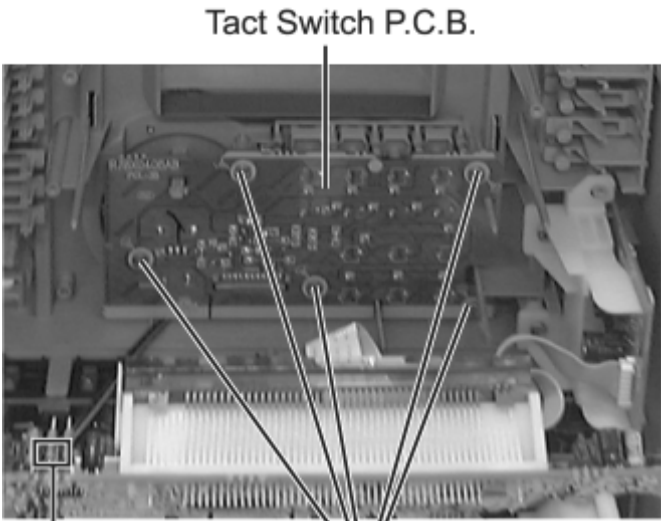


Step 7 Release 3 catches.



**d** x 2  
(Step 8)

- Step 8 Remove 2 screws.
- Step 9 Lift up Mic P.C.B. to remove it.
- Disassembly of Tact Switch P.C.B.
- Step 10 Remove the volume knob.



W601B

**d** x 2  
(Step 12)

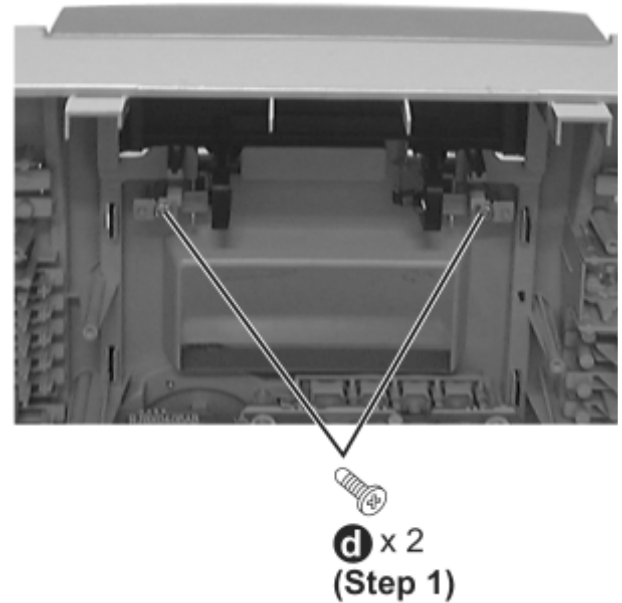
Step 11 Disconnect connector W601B.  
Step 12 Remove 5 screws.  
Step 13 Draw Tact Switch P.C.B. forward.

#### 17.4.1 Disassembly of Lid

### 17.4.1 Disassembly of Lid

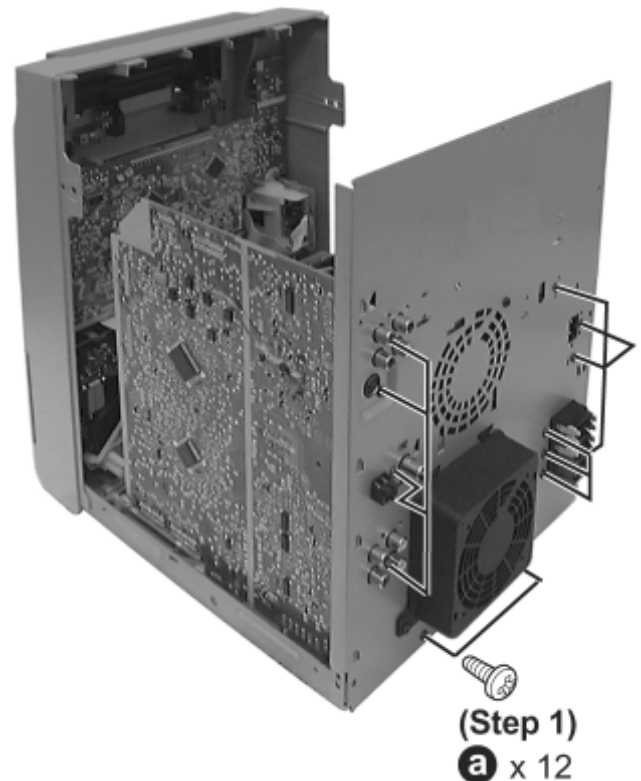
- Follow the (Step 1) - (Step 2) of Item 17.2.
  - Follow the (Step 1) - (Step 4) of Item 17.3.
  - Follow the (Step 1) - (Step 4) of Item 17.4.
- Step 1 Remove 2 screws.

Step 2 Lift the spring sideward.  
Step 3 Remove Lid.  
Note: Do not misplace the spring.



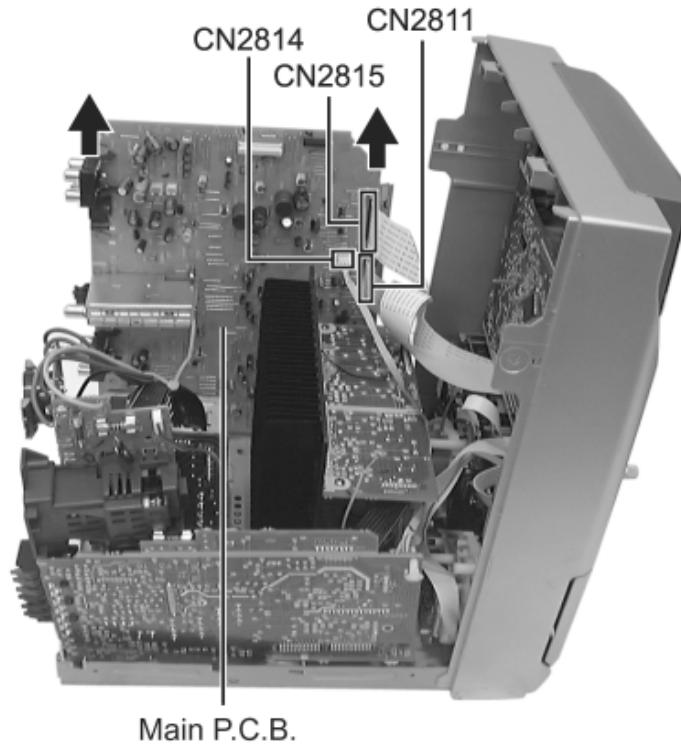
### 17.5 Disassembly of Main P.C.B., Power P.C.B., , Power Amp P.C.B., Power Supply P.C.B., Transformer P.C.B.& Voltage Selector P.C.B.

- Follow the (Step 1) - (Step 2) of Item 17.2.
  - Follow the (Step 1) - (Step 4) of Item 17.3.
  - Disassembly of Main P.C.B.
- Step 1 Remove the 12 screws.  
Step 2 Detach CN2808 & CN2809 (Fan).  
Step 3 Push the catch outwards & draw the rear panel to remove it.





Step 4 Detach FFC boards (CN2811, CN2814 & CN2815).



Step 5 Lift up Main P.C.B. as arrow shown.

17.5.1 Disassembly of Power Amp P.C.B.

17.5.2 Disassembly of Power P.C.B.

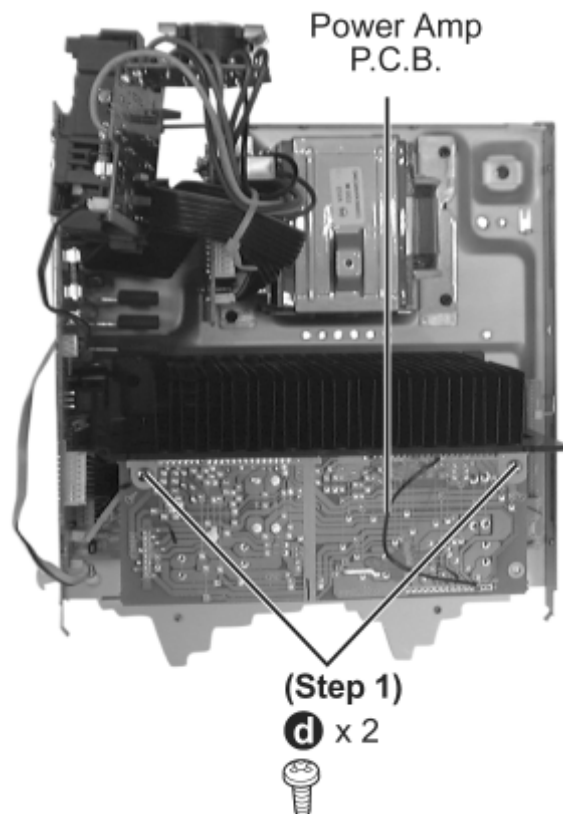
17.5.3 Disassembly of Power Supply P.C.B.

17.5.4 Disassembly of Transformer P.C.B. & Voltage Selector P.C.B.

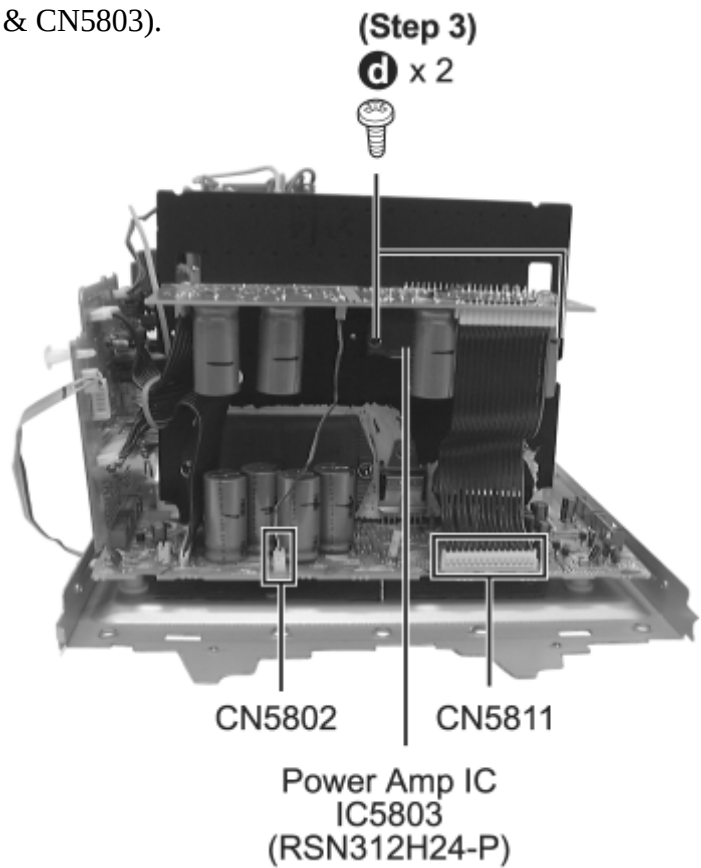
## 17.5.1 Disassembly of Power Amp P.C.B.

- Follow the (Step 1) - (Step 2) of Item 17.2.
- Follow the (Step 1) - (Step 4) of Item 17.3.
- Follow the (Step 1) - (Step 4) of Item 17.4.
- Follow the (Step 1) - (Step 3) of Item 17.5.

Step 1 Remove the 2 screws.



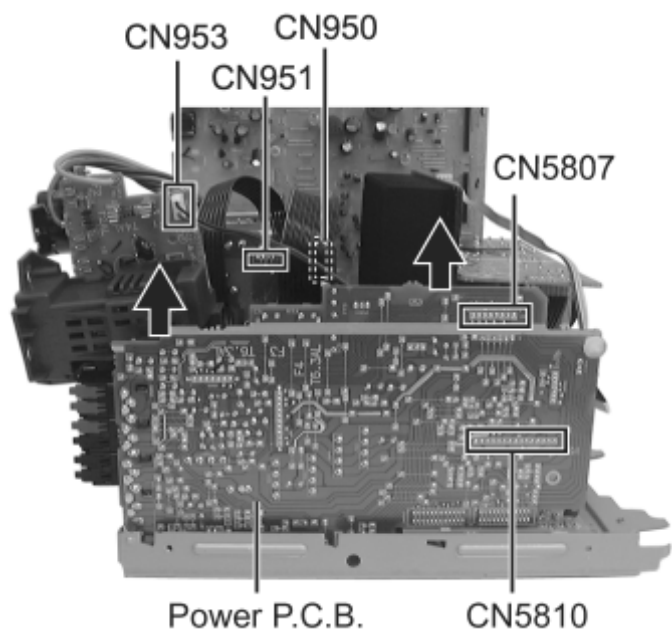
Step 2 Detach cables (CN5802 & CN5803).



Step 3 Remove the 2 screws.

## 17.5.2 Disassembly of Power P.C.B.

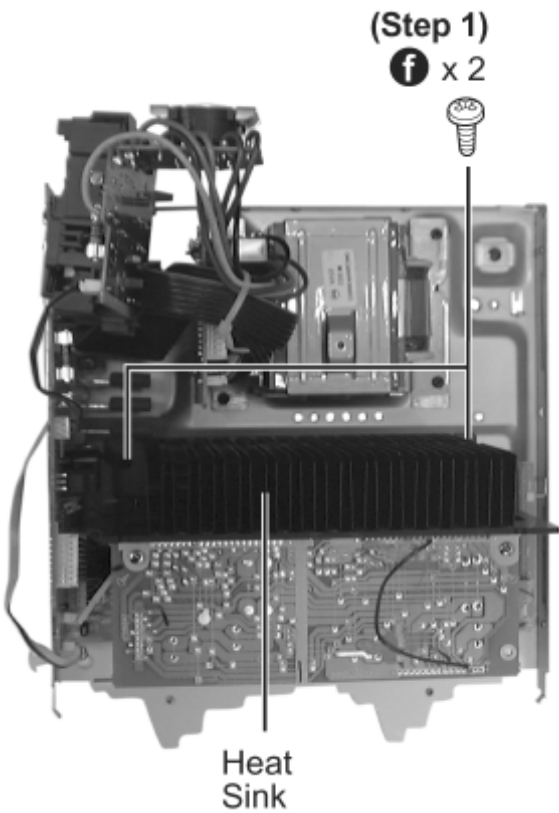
- Follow the (Step 1) - (Step 2) of Item 17.2.
  - Follow the (Step 1) - (Step 4) of Item 17.3.
  - Follow the (Step 1) - (Step 4) of Item 17.4.
  - Follow the (Step 1) - (Step 3) of Item 17.5.
- Step 1 Detach cable (CN953, CN950 & CN951).
- Step 2 Detach cable (CN5807 & CN5810).



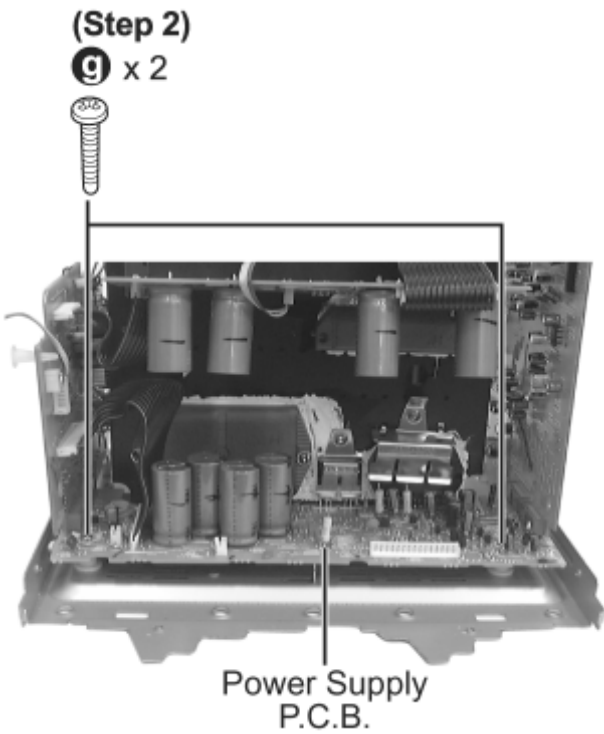
Step 3 Lift up Power P.C.B. as arrow shown.

# 17.5.3 Disassembly of Power Supply P.C.B.

Step 1 Remove the 2 screws at heat sink.

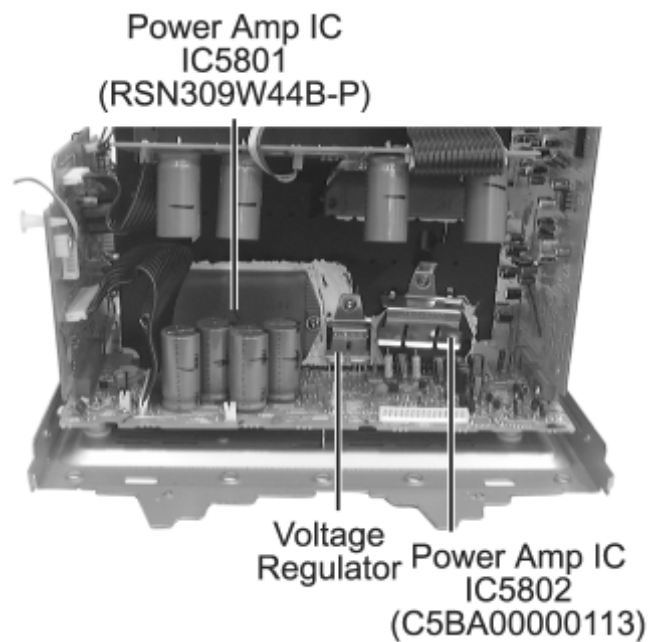


Step 2 Remove the 2 screws.



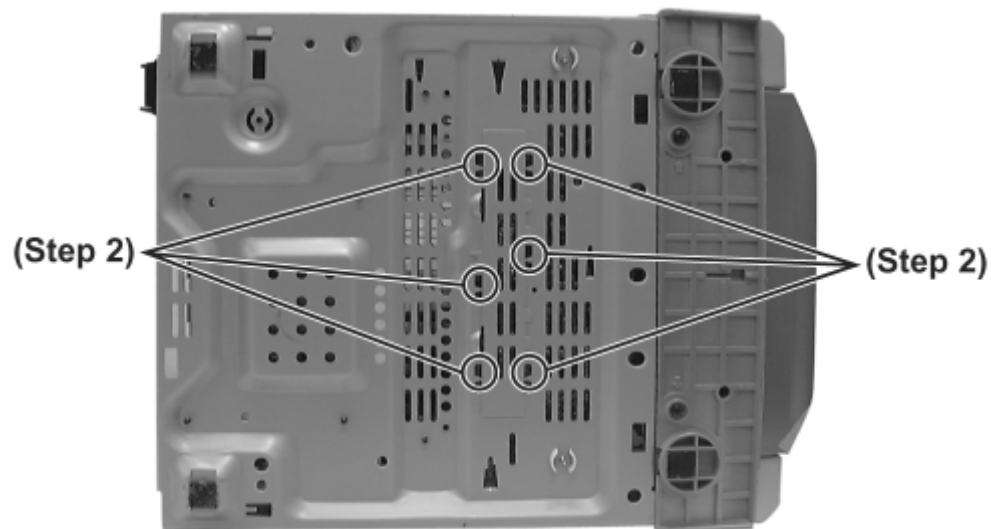
- Replacement of Power Amp IC

Step 1 Remove 2 screws fixed to the Power Amplifier IC.

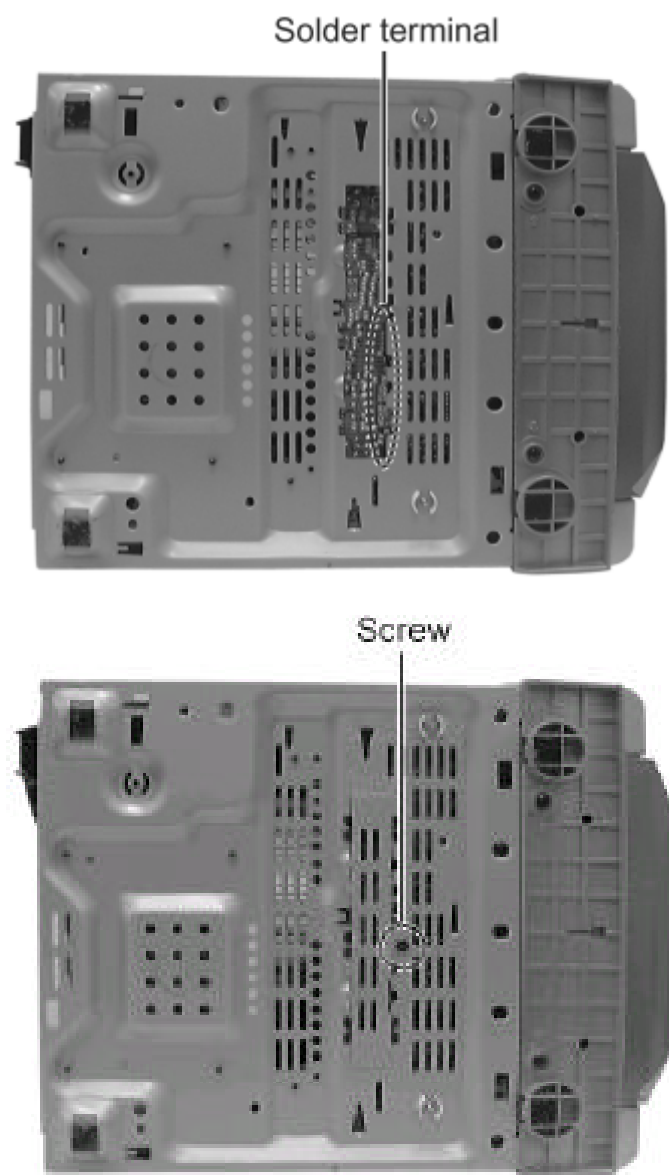


Step 2 Remove 2 screws fixed to the Power Amplifier IC and Voltage Regulator.

Step 3 Break the joint with a metal cutter as shown below.



Step 4 Unsolder the terminals of Power Amp IC, replace the component.



Step 5 Fix back the bottom chassis with a screw as shown.

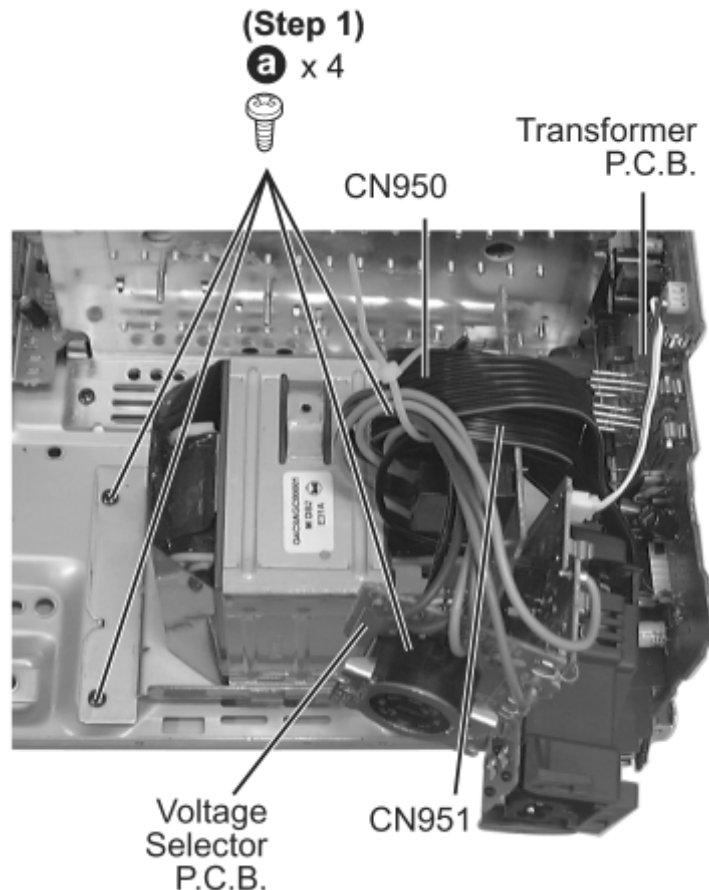
NOTE:

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

## 17.5.4 Disassembly of Transformer P.C.B.& Voltage Selector P.C.B.

- Follow the (Step 1) - (Step 2) of Item 17.2.
- Follow the (Step 1) - (Step 4) of Item 17.3.

Step 1 Remove 4 screws.



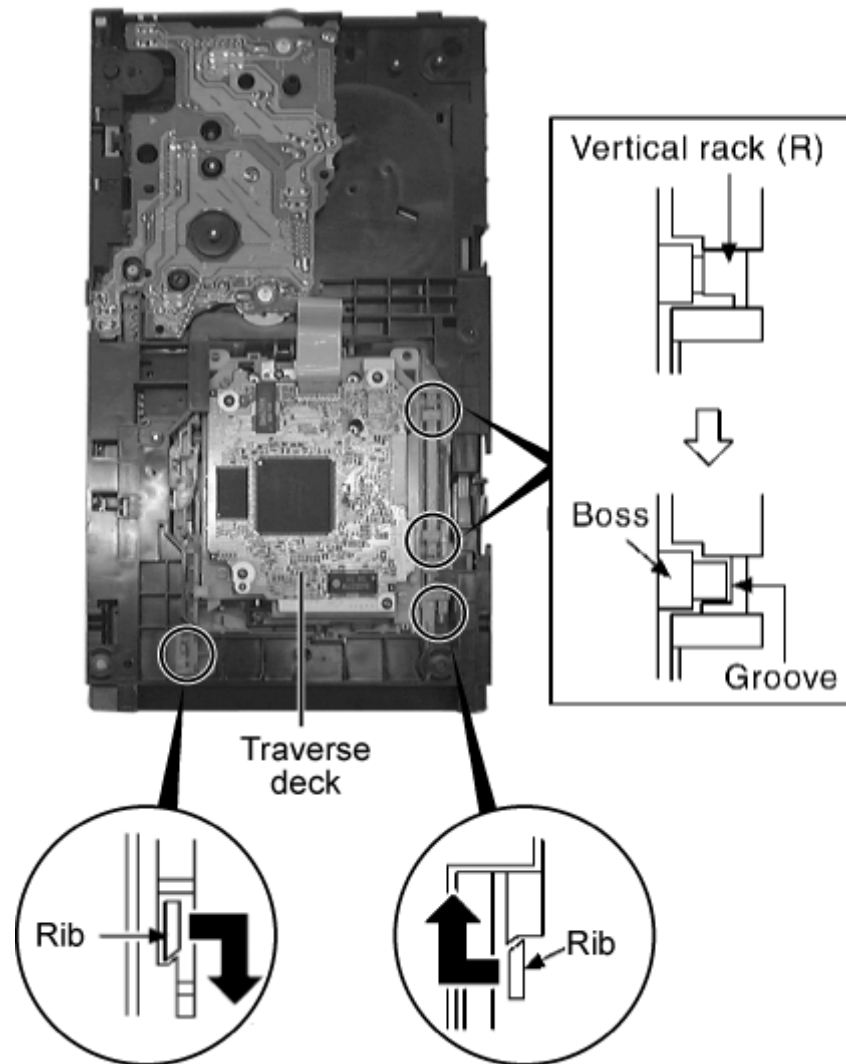
Step 2 Disconnect connector CN950 & CN951.

## 17.6 Replacement for traverse deck

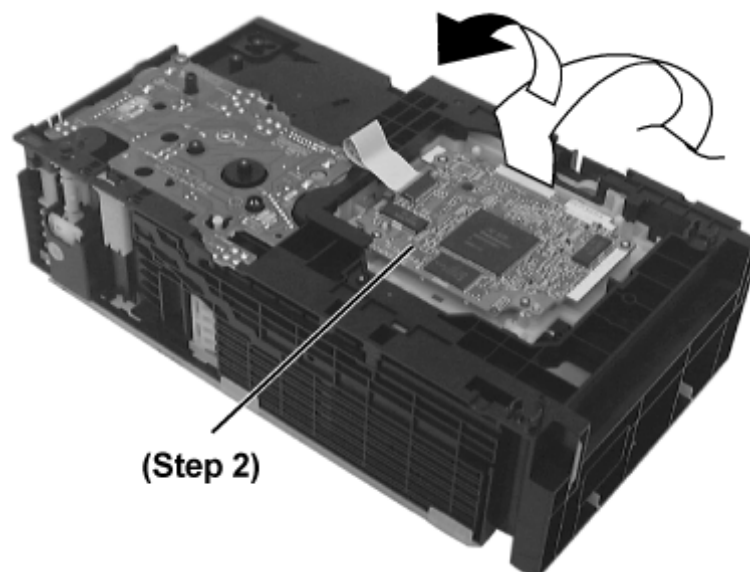
- Follow the (Step 1) - (Step 2) of Item 17.2.
- Follow the (Step 1) - (Step 4) of Item 17.3.
- Follow the (Step 1) - (Step 3) of Item 17.3.1.

Step 1 Move ribs at both sides to the arrow direction (The vertical rack (R) slides and the groove opens).

(Bottom side)

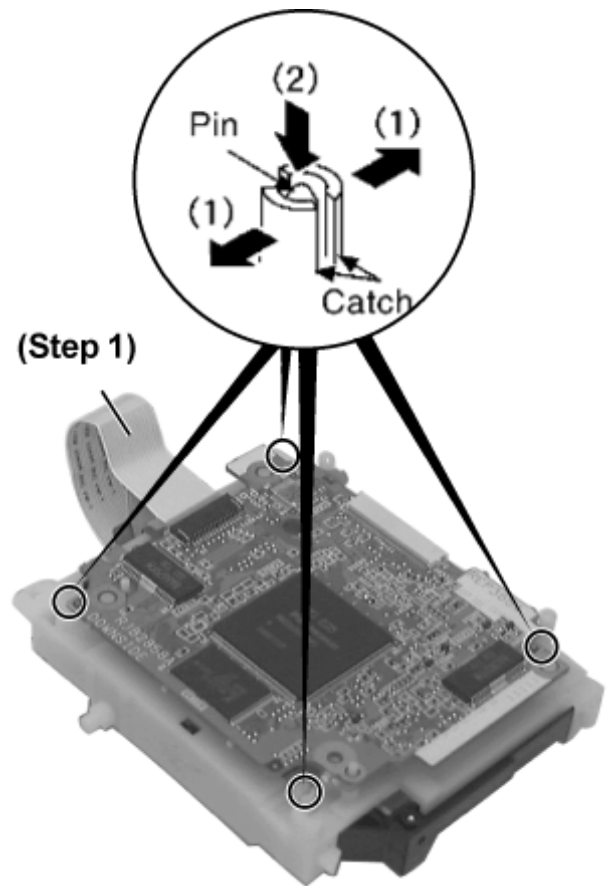


Step 2 Remove CD traverse deck rotating to the arrow direction.

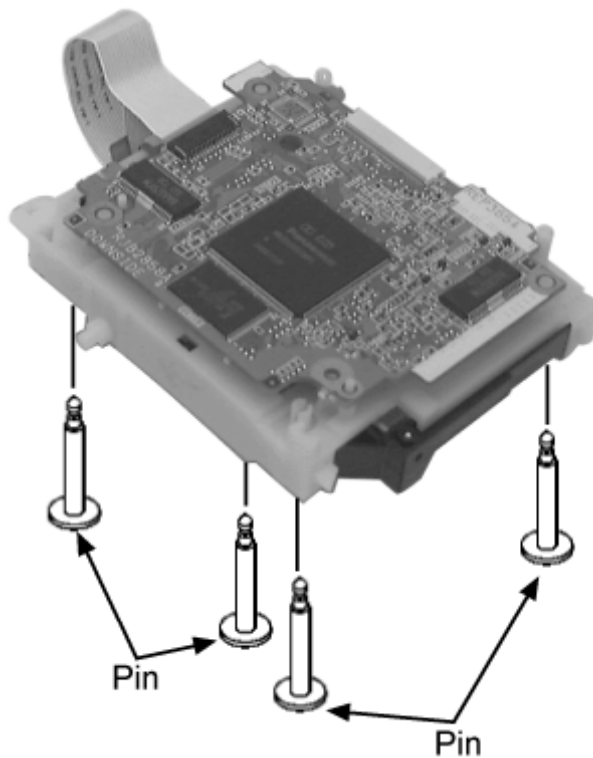


## 17.7 Replacement for optical pickup unit (DVD mechanism)

- Follow the (Step 1) - (Step 2) of Item 17.2
  - Follow the (Step 1) - (Step 4) of Item 17.3.
  - Follow the (Step 1) - (Step 3) of Item 16.3.1.
  - Follow the (Step 1) - (Step 2) of Item 17.6
- Step 1 Pull out FFC.

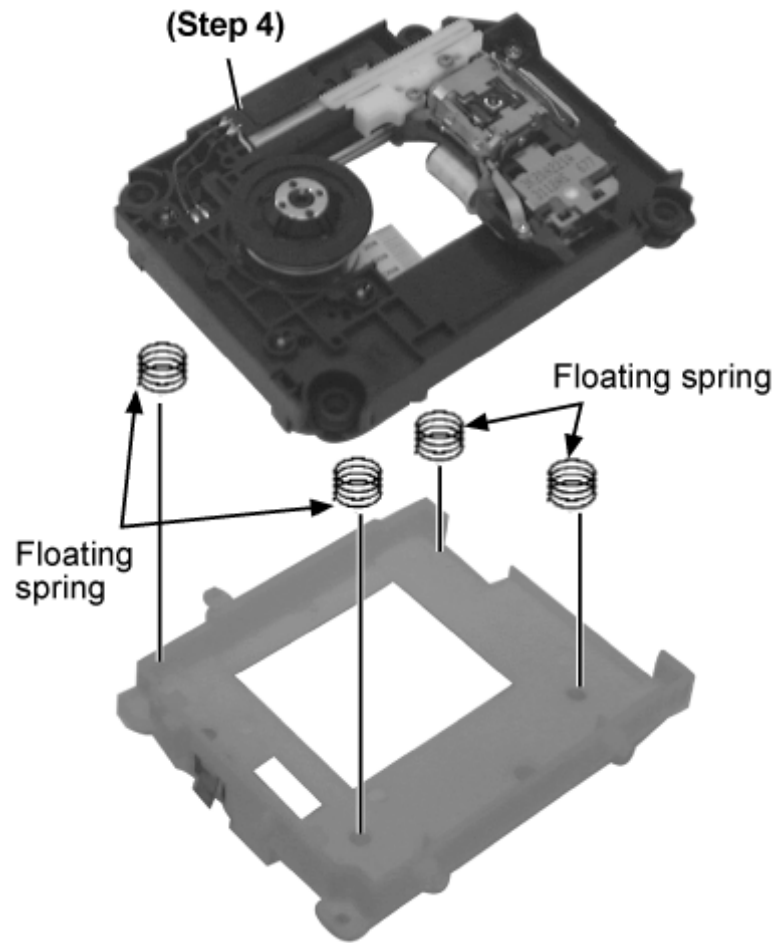


Step 2 Widening the catch, push the pin in.



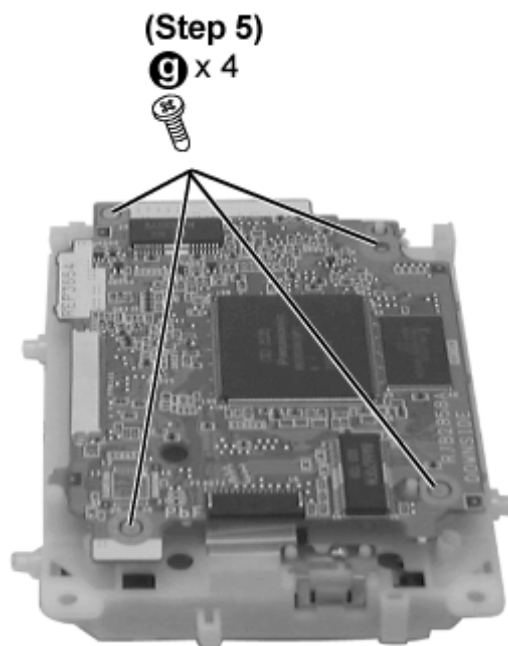


Step 3 Remove 4 pins.



Step 4 Remove the traverse deck.

Note: As floating springs (4 pieces) come off at the same time, be careful not to lose them.

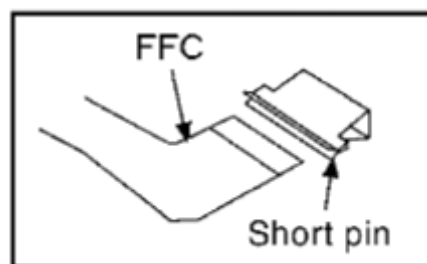
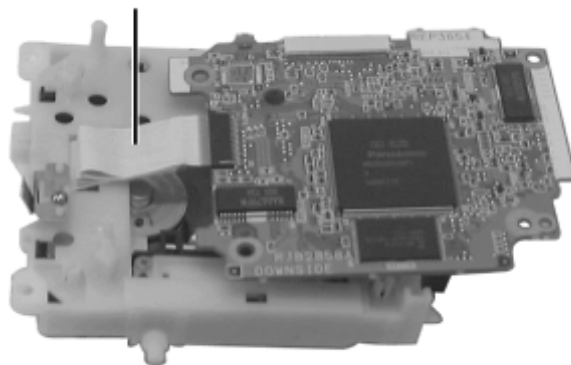


Step 6 Remove the dvd module board and turn it over.

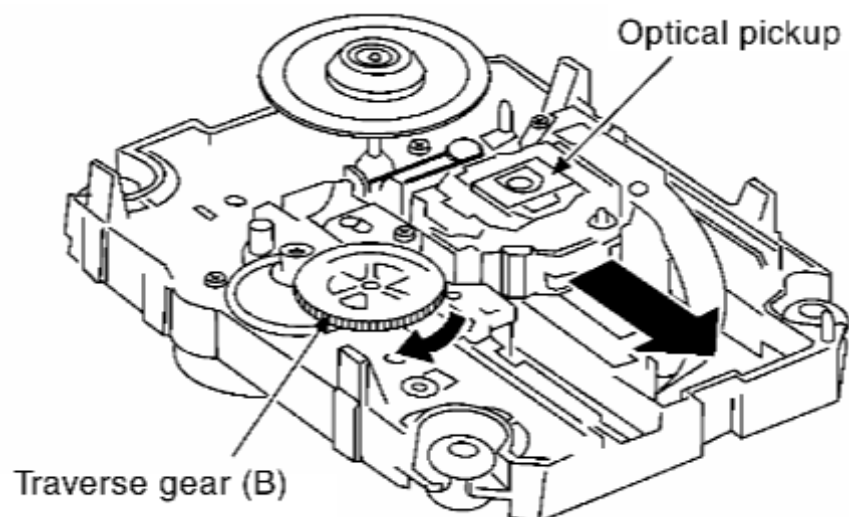
Step 7 Pull FFC out from the connector.

Note: Insert a short pin into FFC of the optical pickup. [See “Notice on handling of the optical pickup”].

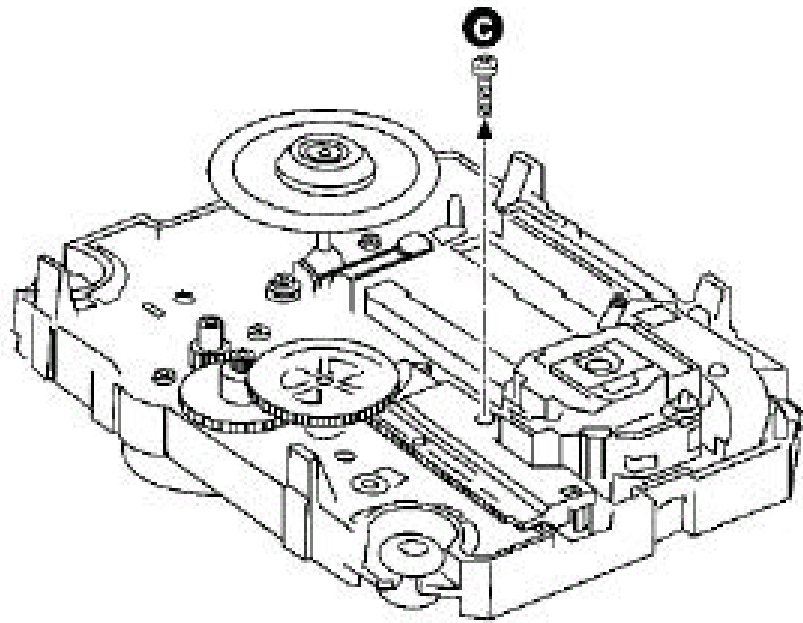
**(Step 7)**



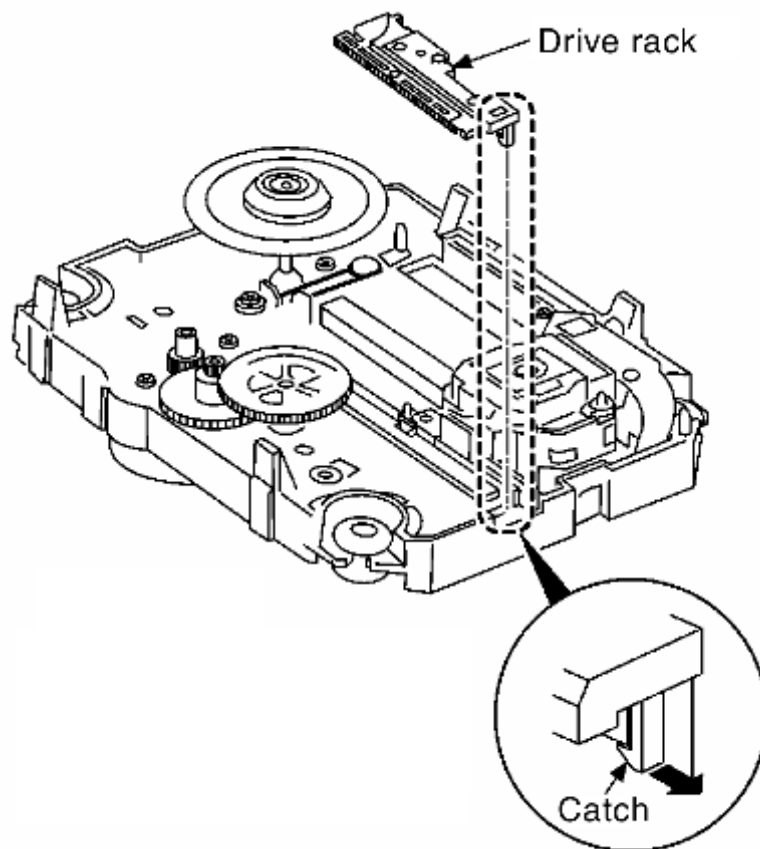
Step 8 Rotate the traverse deck (B) to the arrow direction and shift the optical pickup to the furthest backward.



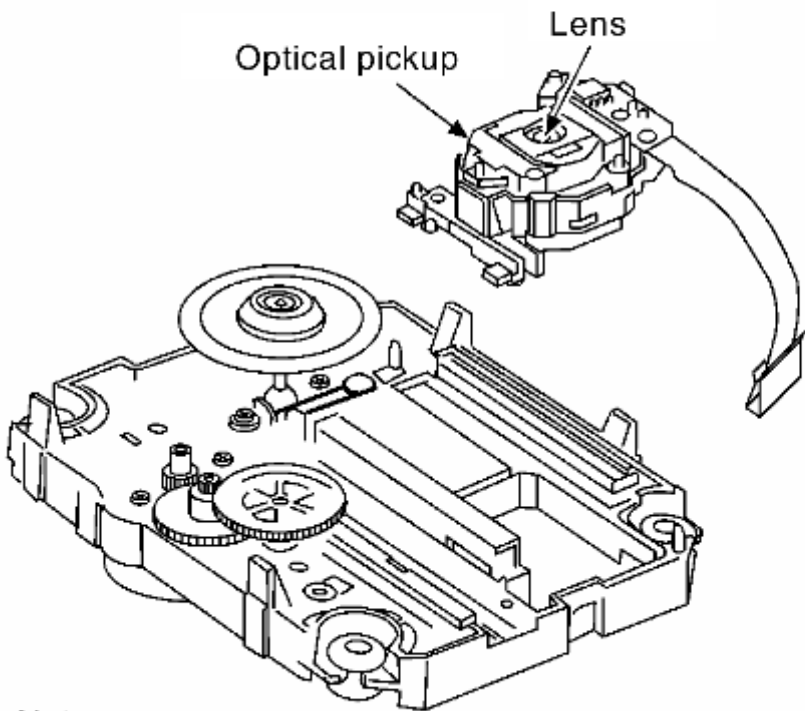
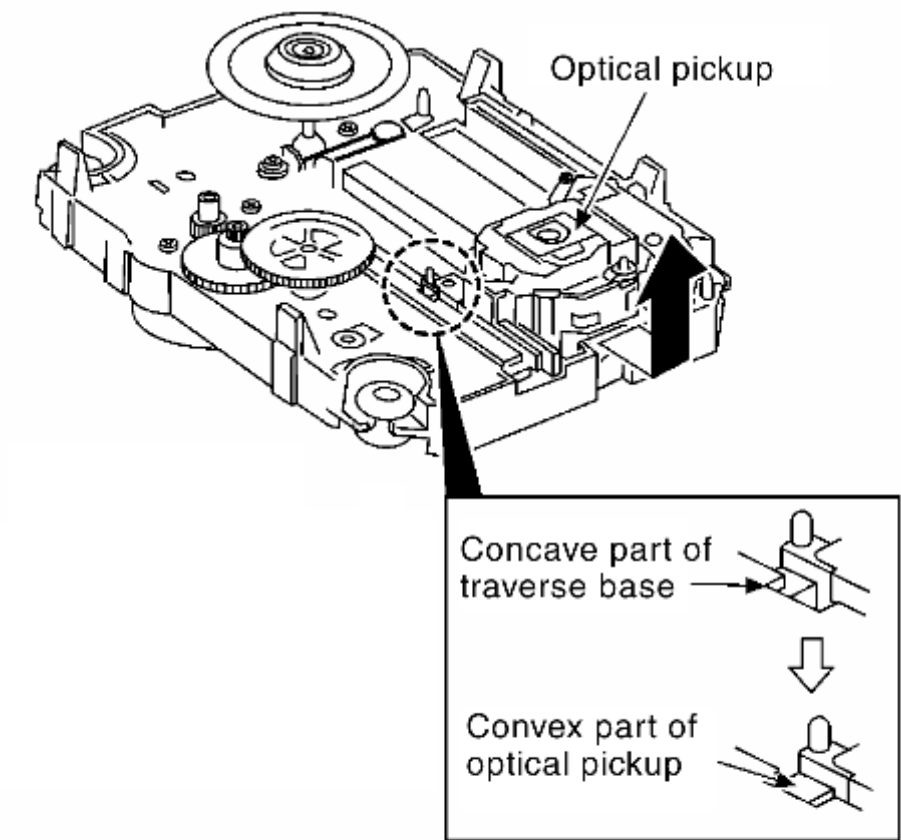
Step 9



Step 10 Remove the catch of the drive rack, and take out the drive rack.



Step 11 Place the convex part of an optical pickup to the concave part of a traverse base, then take out the optical pickup.



Note:  
Do not touch the lens of the optical pickup

## 17.8 Procedure for removing CD loading mechanism

1. Turn off by pressing power SW in the body.
2. Unplug AC power cord after the indication of [GOOD-BYE], then disassemble the body.
3. Disassemble the body, and take out CD loading mechanism.
4. Perform disassembly according to the following procedure for disassembly.

## 17.9 CR16 mechanism disassembly procedure

17.9.1 Gear for servicing information

17.9.2 Replacement for the disc tray

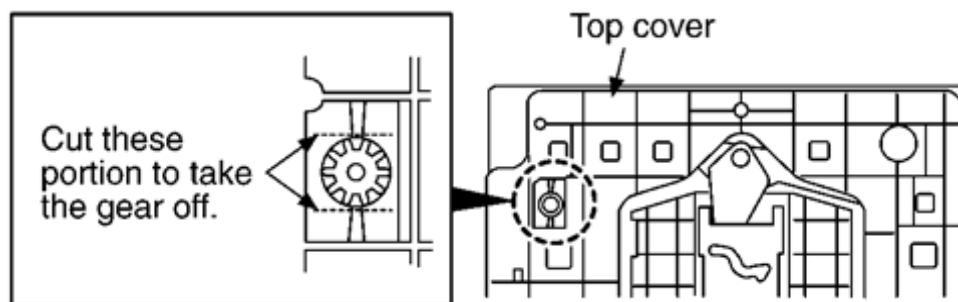
17.9.3 Replacement for the traverse deck

17.9.4 Disassembly for CD loading unit

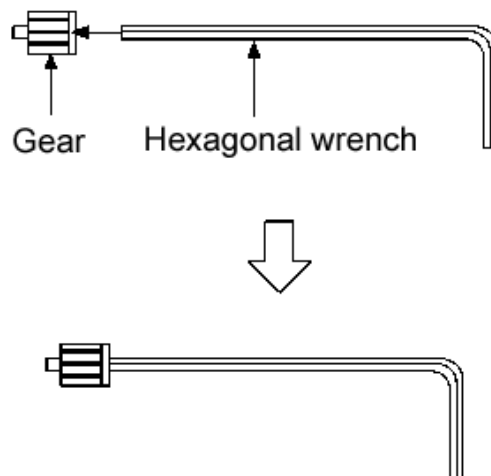
### 17.9.1 Gear for servicing information

- This unit has a gear which used for checking items (open/close of disc tray, up/down operation of traverse unit by manually) when servicing. (For gear information, that is described on the items for disassembly procedures.)
- For preparation of gear (for servicing), perform the procedures as follows.
- In case of re-servicing the same set, the “gear for servicing” may be took off because it had been used. So, the “gear for servicing” must be stored.

1. Remove the gear attached to top cover of CD loading mechanism.



2. Insert the hexagonal wrench (2.5mm) into the gear.

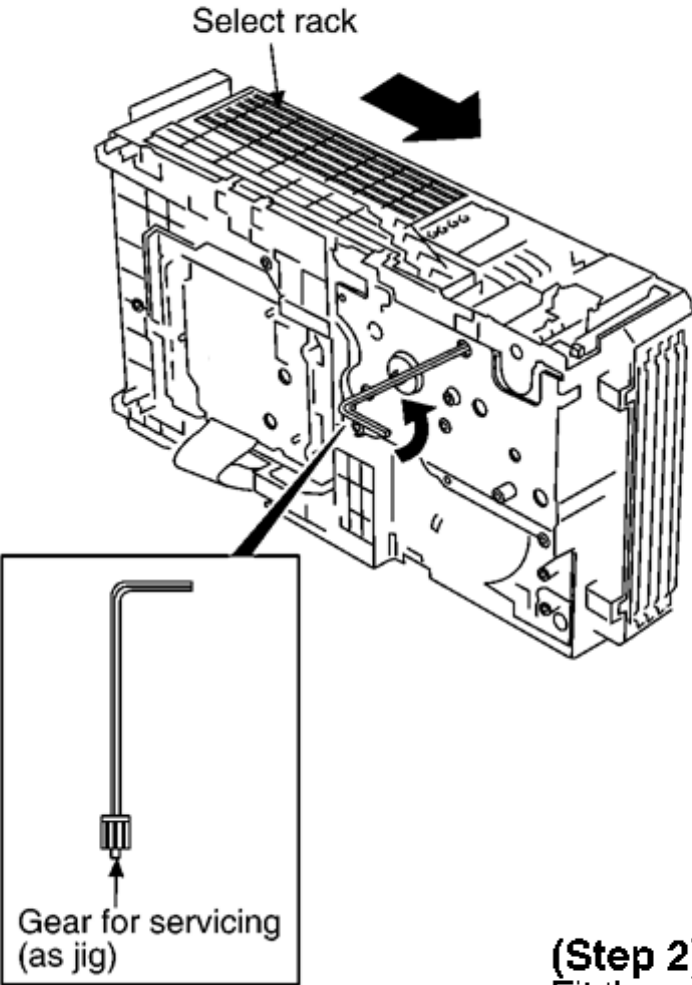


(Preparation of gear as jig is completed)

17.9.2 Replacement for the disc tray

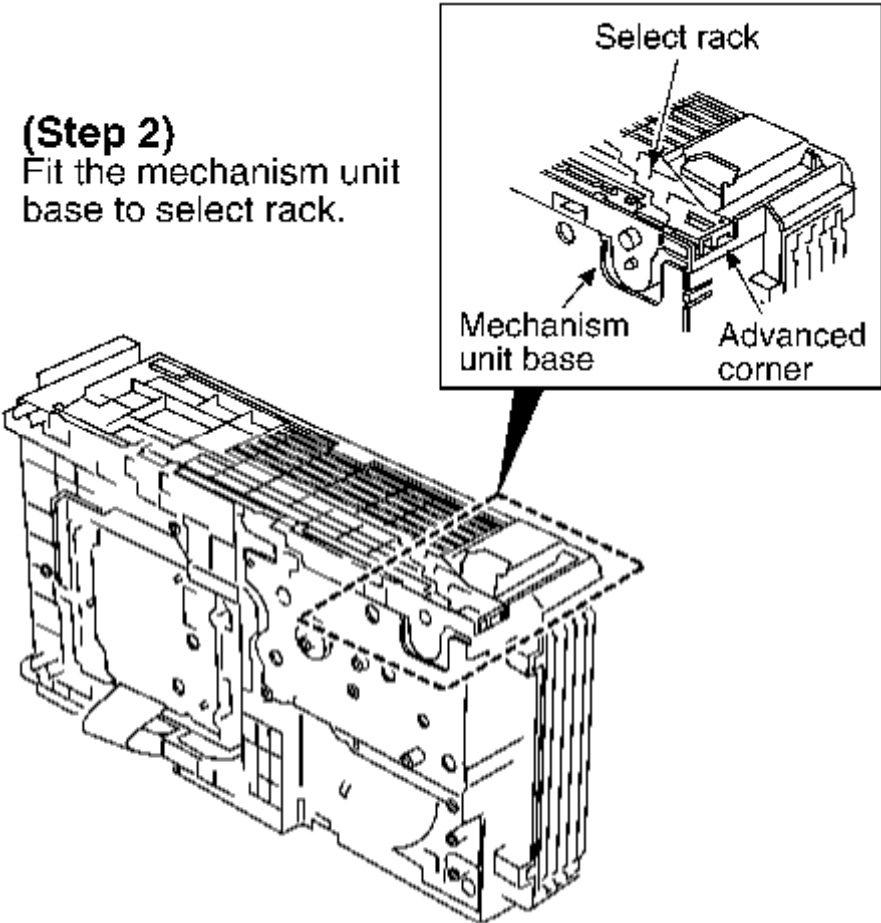
**(Step 1)**

Rotate the gear for servicing and move the select rack to advanced corner.



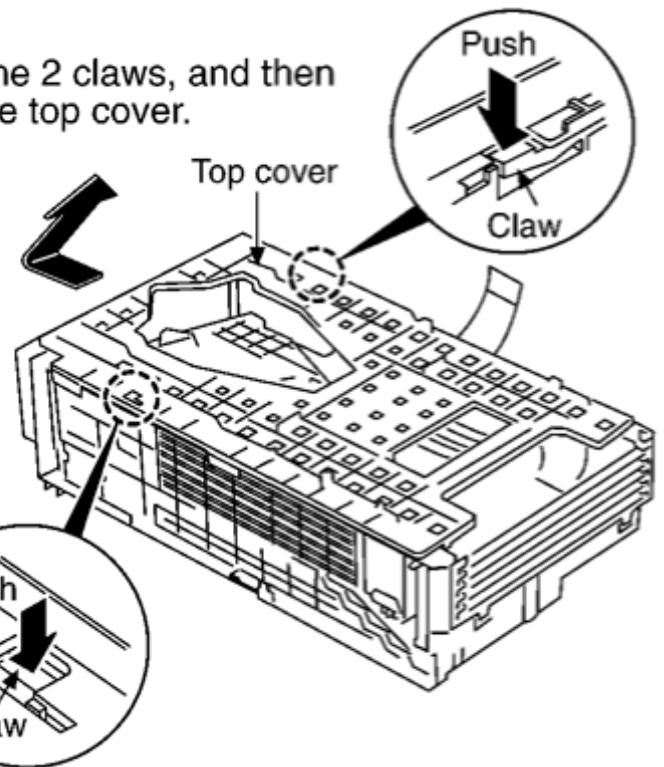
**(Step 2)**

Fit the mechanism unit base to select rack.



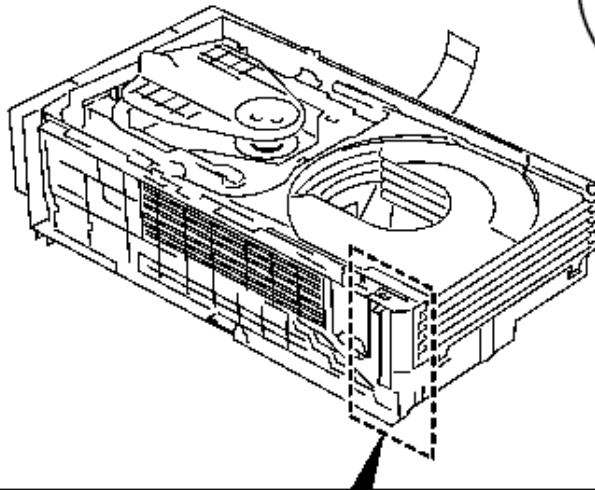
**(Step 3)**

Release the 2 claws, and then remove the top cover.



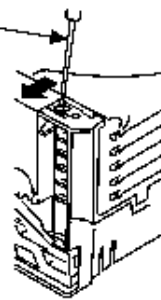
**(Step 4)**

Remove the open switch lever.

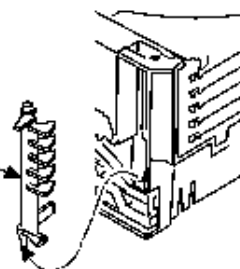


Minus screwdriver

Push the open switch lever  
with minus screwdriver.

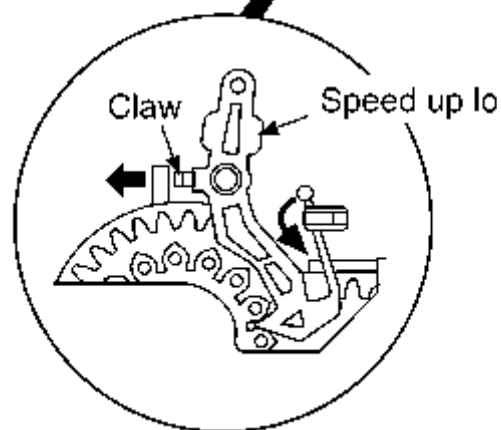
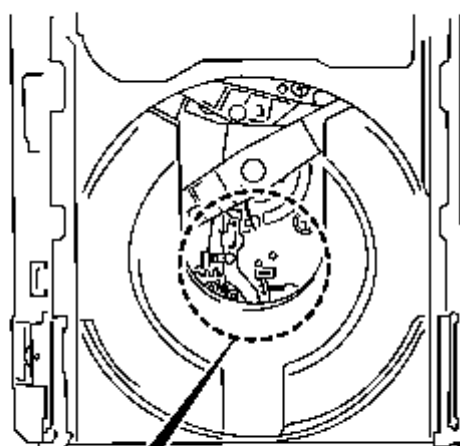


Open switch lever



**(Step 5)**

Release the claw, and then remove the speed up lock.



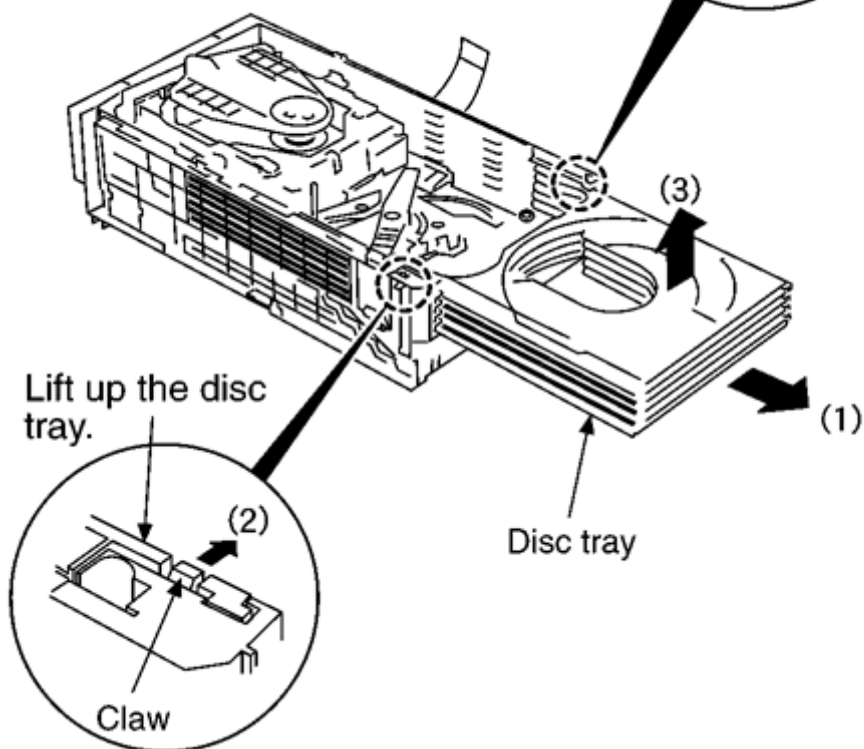
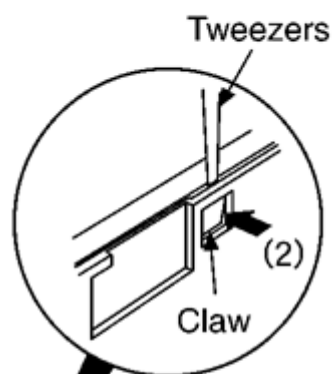
Insert the tweezers between the mechanism base and disc tray, and then lift up the disc tray.

**(Step 6)**

Draw out all disc tray completely.

**(Step 7)**

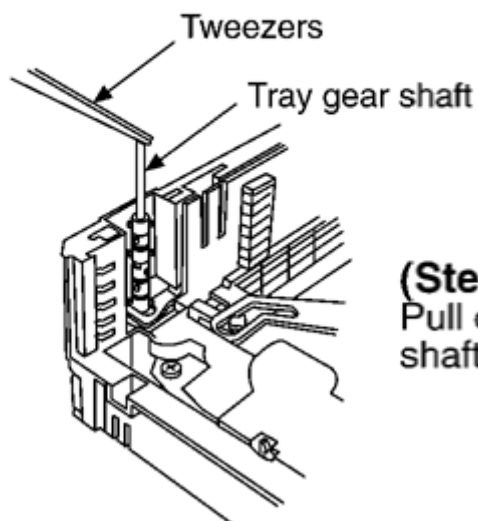
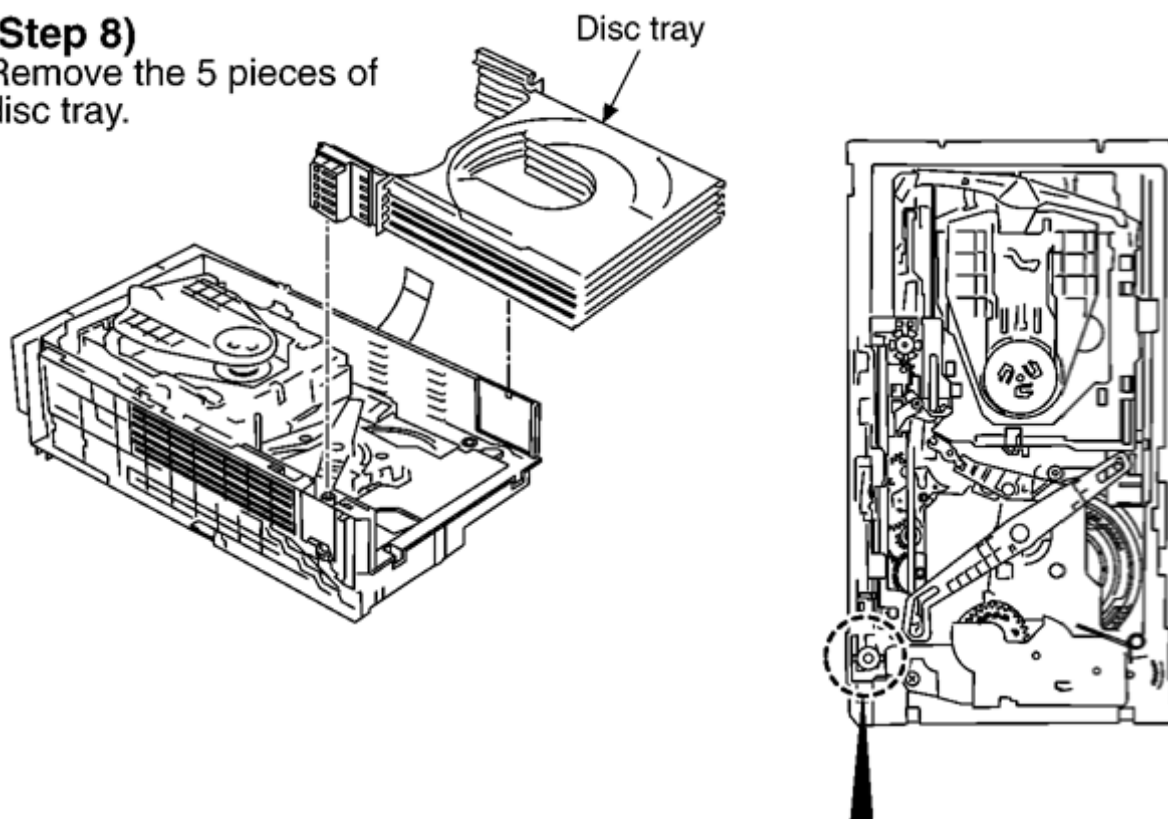
Release the both claws, and then lift up the disc tray.





**(Step 8)**

Remove the 5 pieces of disc tray.



**(Step 9)**

Pull out the tray gear shaft with tweezers.



**(Step 10)**

Remove the tray drive gear ass'y.

## 17.9.3 Replacement for the traverse deck

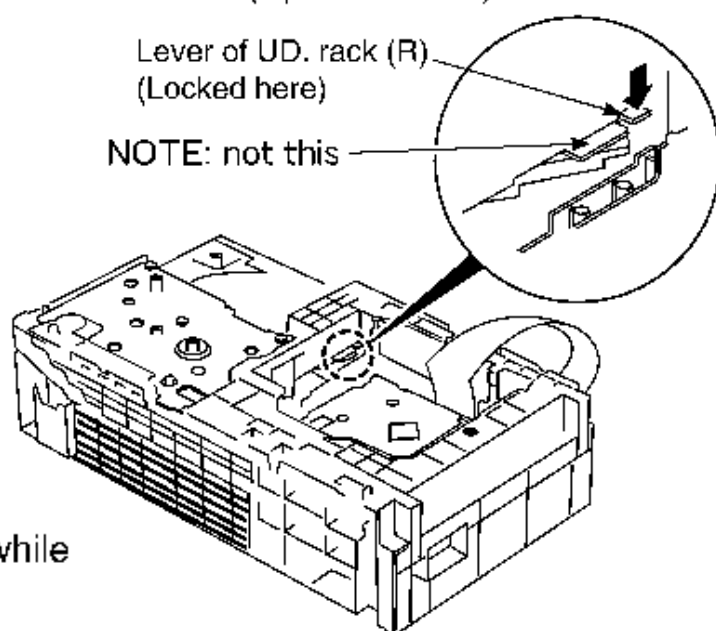
• Follow the (Step 1) - (Step 10) of item 17.9.2.

### (Step 1)

Confirm the position for lever of UD. rack (R) to remove traverse unit.

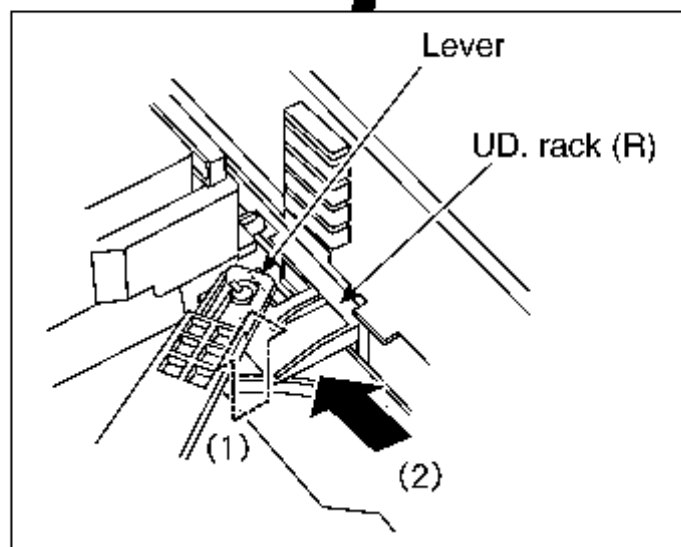
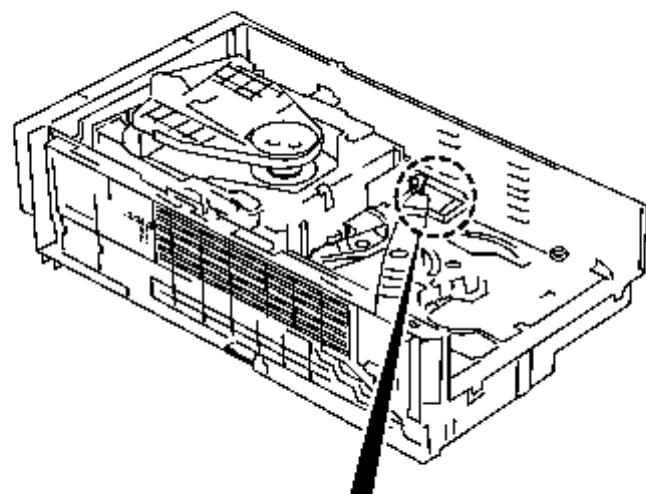
### (Step 2)

Turn the unit over. (Upside: P.C.B.)

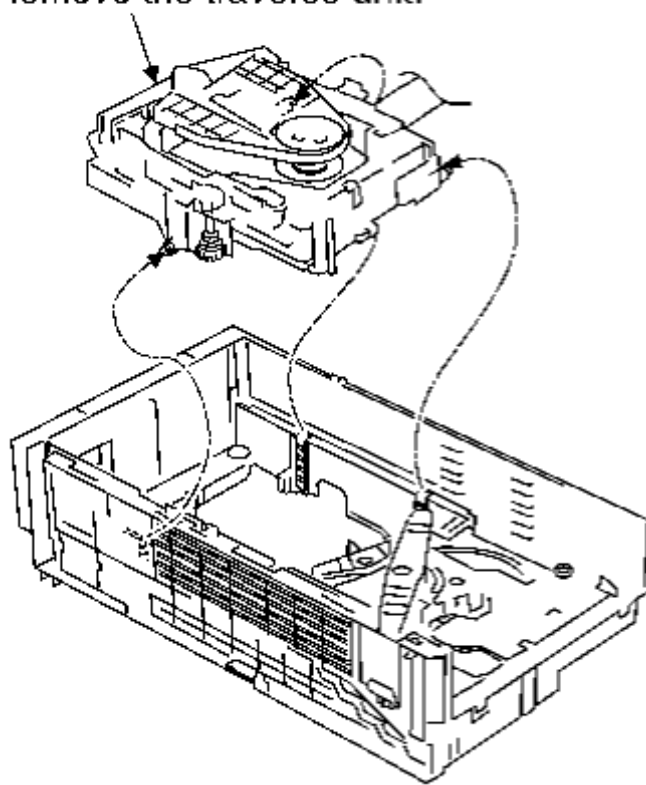


### (Step 3)

Turn the unit over again, slide UD. rack (R) while pushing up the lever from the bottom.

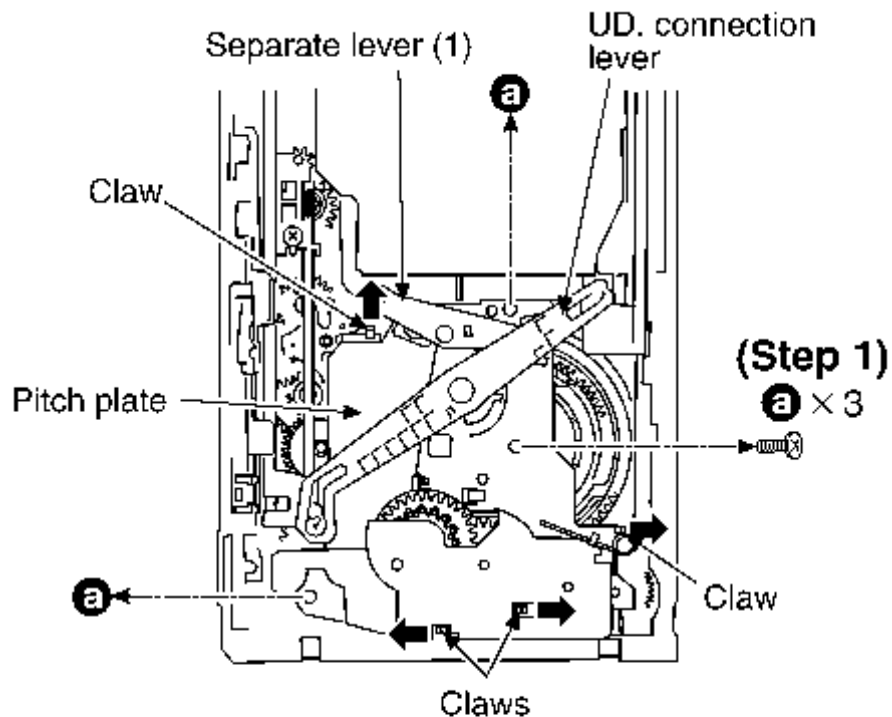


**(Step 4)**  
Remove the traverse unit.



## 17.9.4 Disassembly for CD loading unit

- Follow the (Step 1) - (Step 10) of item 17.9.2.
- Follow the (Step 1) - (Step 3) of item 17.9.3.

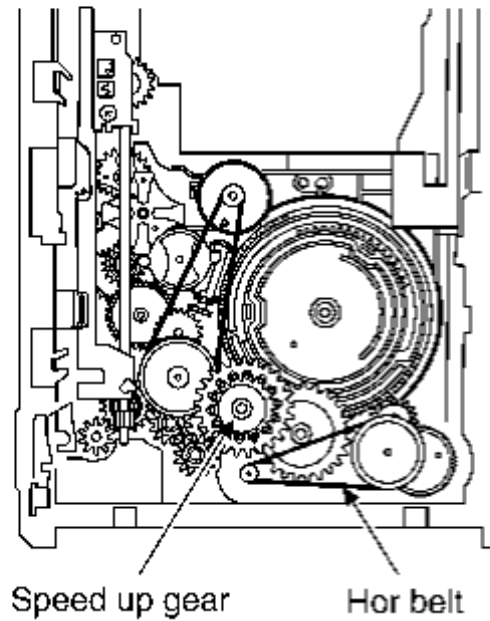


**(Step 2)**

Release the 4 claws, and then remove the pitch plate together with separate lever (1) and UD. connection lever.

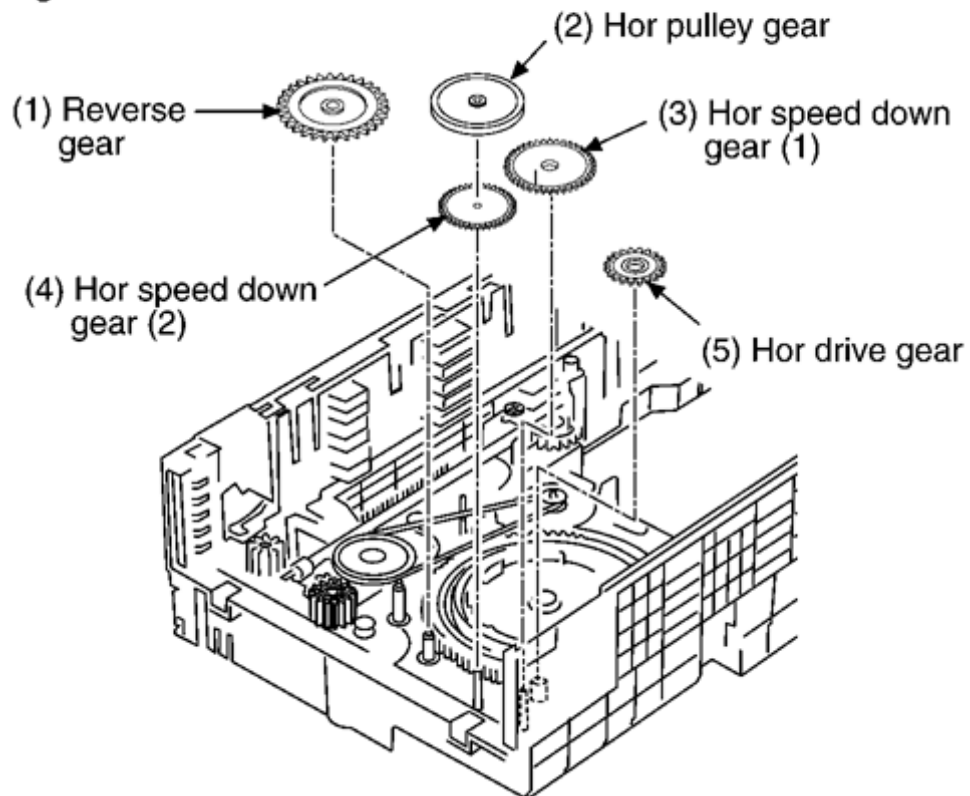
**(Step 3)**

Remove the speed up gear and hor belt.



**(Step 4)**

Remove the reverse gear, hor pulley gear, hor speed down gear (1), hor speed down gear (2) and hor drive gear.

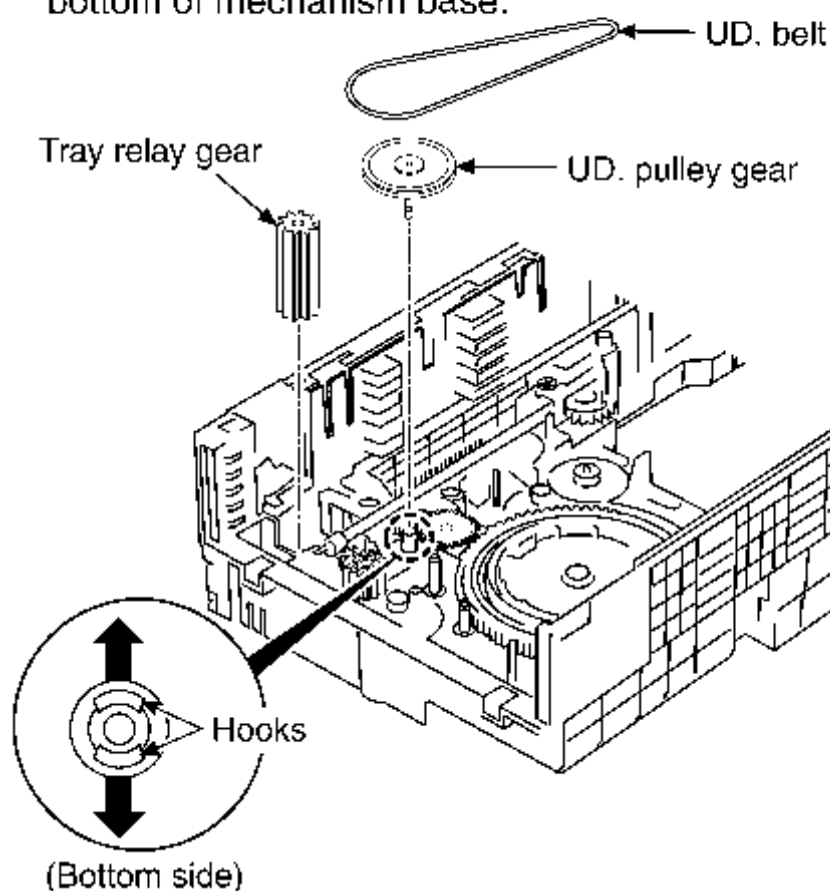


**(Step 5)**

Remove the UD. belt and tray relay gear.

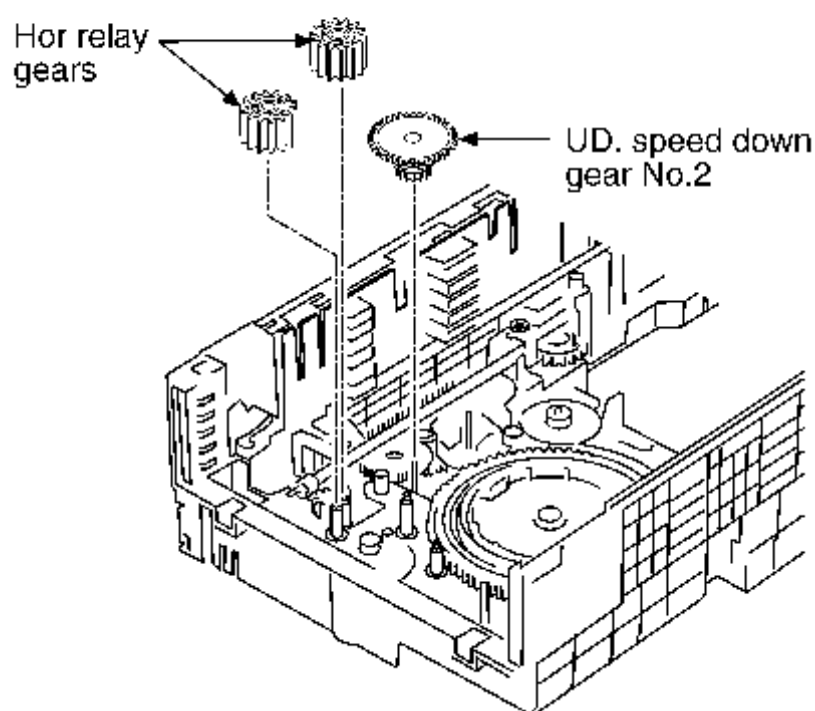
**(Step 6)**

Pull out the UD. pulley gear, loosen 2 hooks of the bottom of mechanism base.



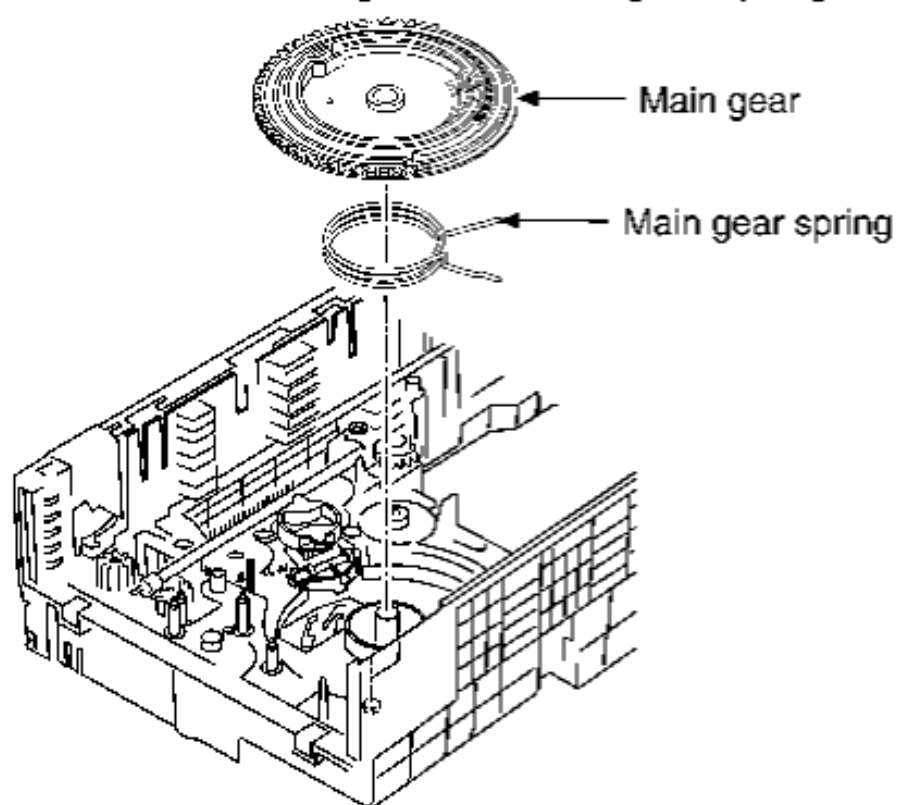
**(Step 7)**

Remove the 2 hor relay gears and UD. speed down gear No.2.



**(Step 8)**

Remove the main gear and main gear spring.

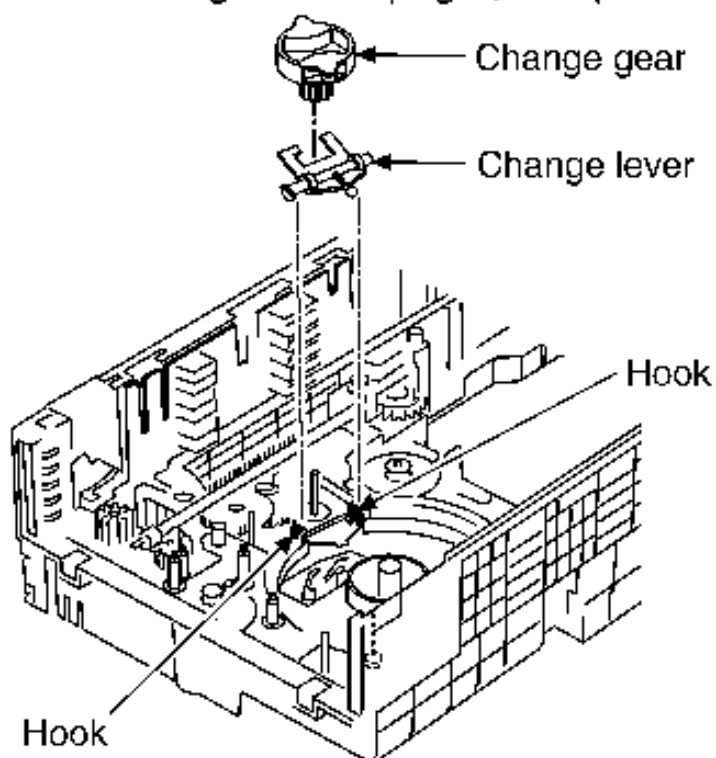


**(Step 9)**

Remove the change gear.

**(Step 10)**

Raise the change lever upright, and pull it out of hook.



**(Step 11)**

**6**

Timing gear plate

Timing gear

Claw

Timing gear plate

Claw

**(Step 12)**

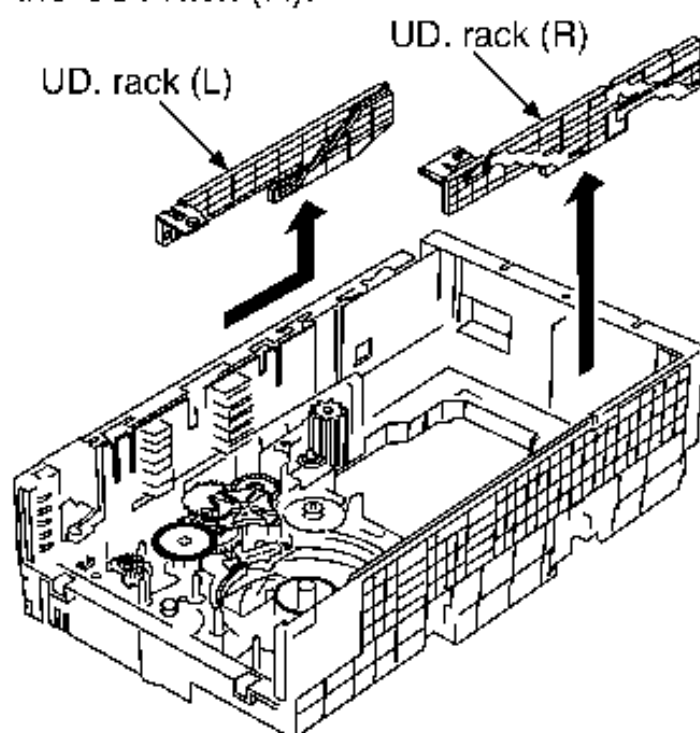
Release the 2 claws, and then remove the timing gear and timing gear plate.

**(Step 13)**

Move the UD. rack (L) to backward, and then remove it.

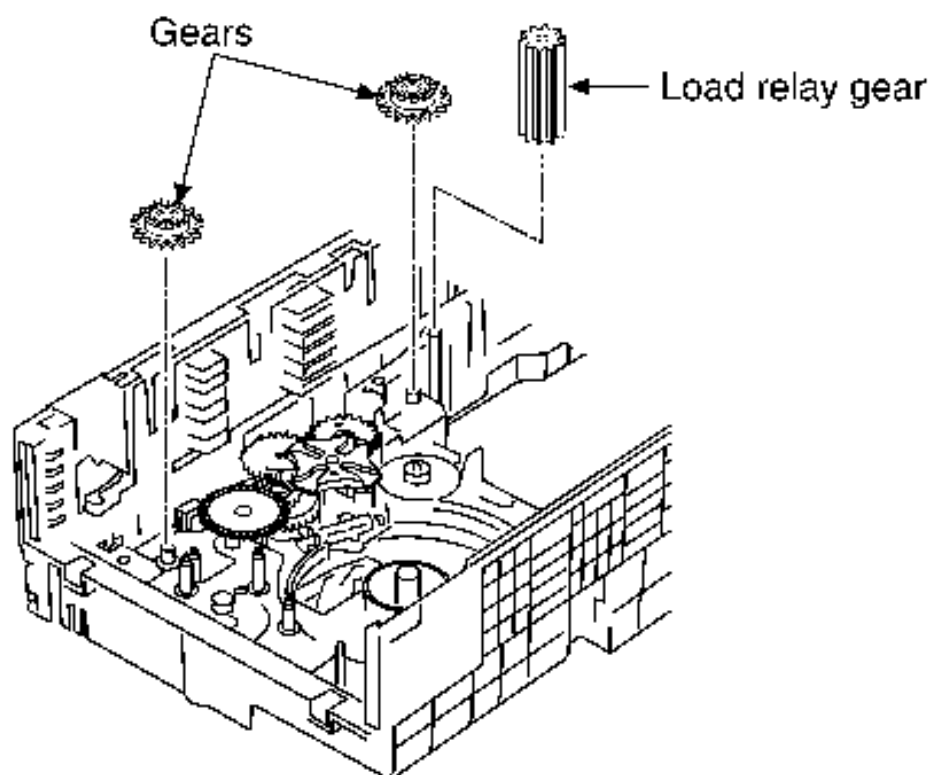
**(Step 14)**

Remove the UD. rack (R).



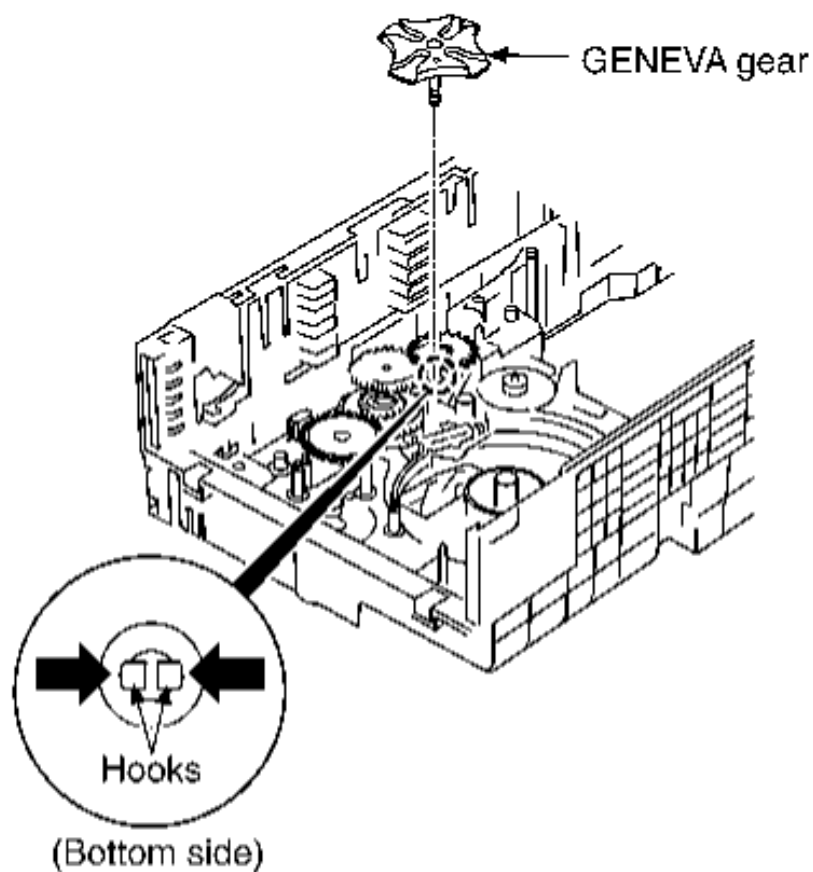
**(Step 15)**

Remove the 2 gears and load relay gear.



**(Step 16)**

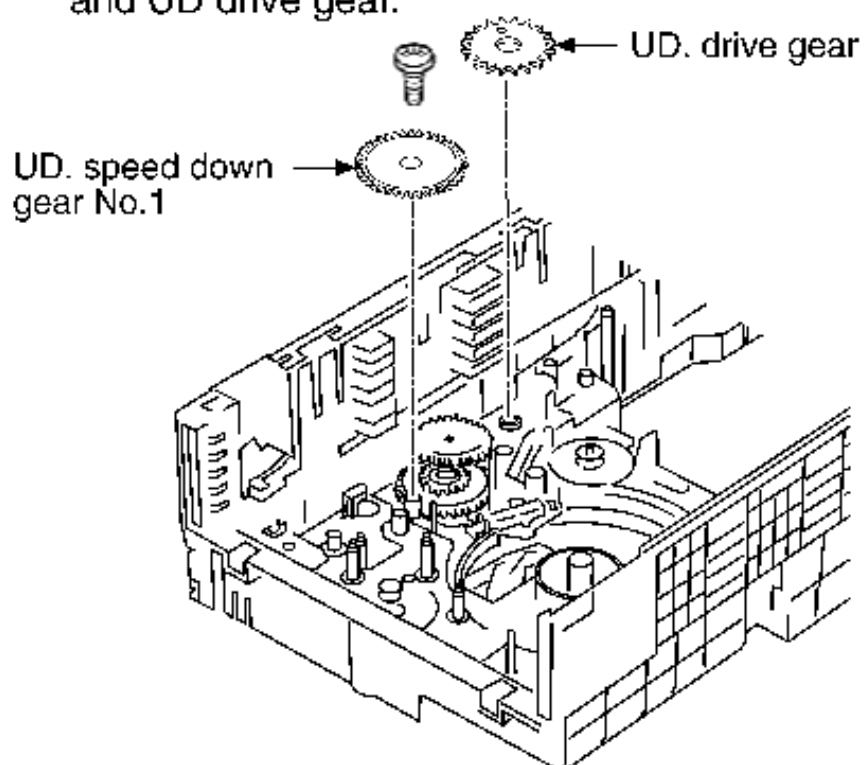
Pull out the GENEVA gear, loosen 2 hooks of the bottom of mechanism base.





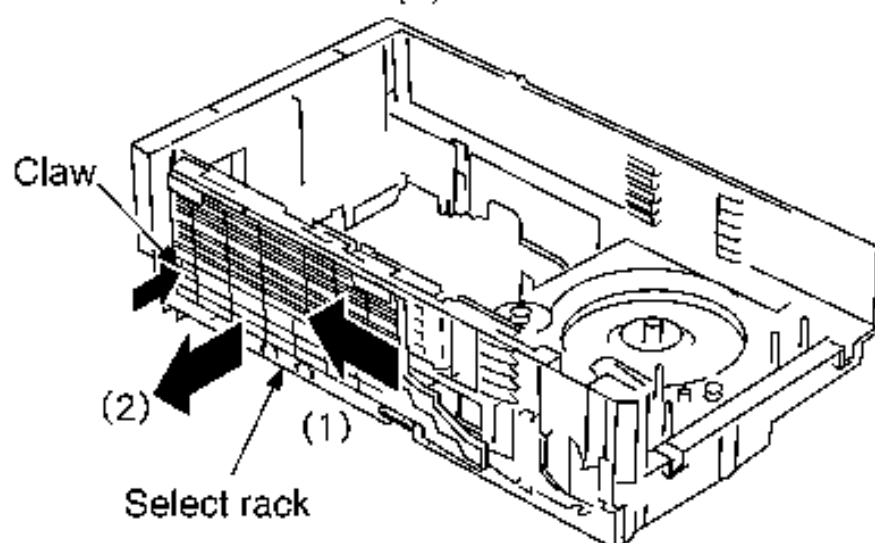
**(Step 17)**

Remove the UD. speed down gear No.1 and UD drive gear.



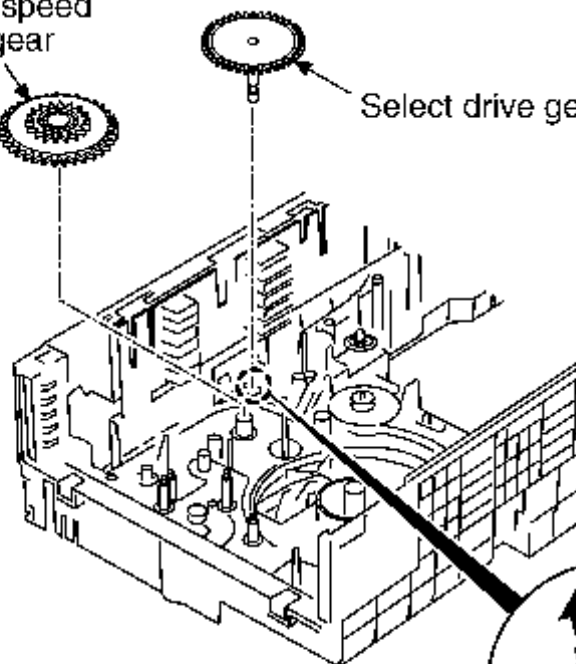
**(Step 18)**

Slide the select rack to the edge direction of the arrow (1). Push the claw and pull out to arrow (2) while sliding the select rack to the arrow (1).



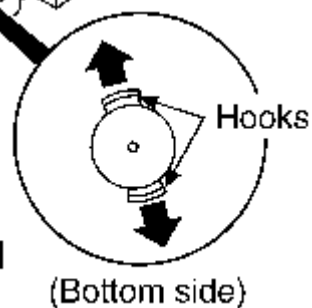
Select speed  
down gear

Select drive gear



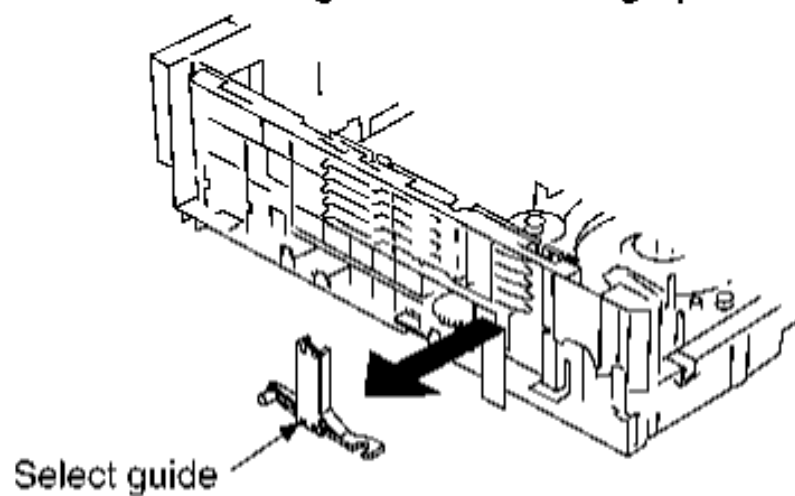
**(Step 19)**

Pull out the select drive gear, loosen 2 hooks of the bottom of mechanism base. Then, remove the select speed down gear.



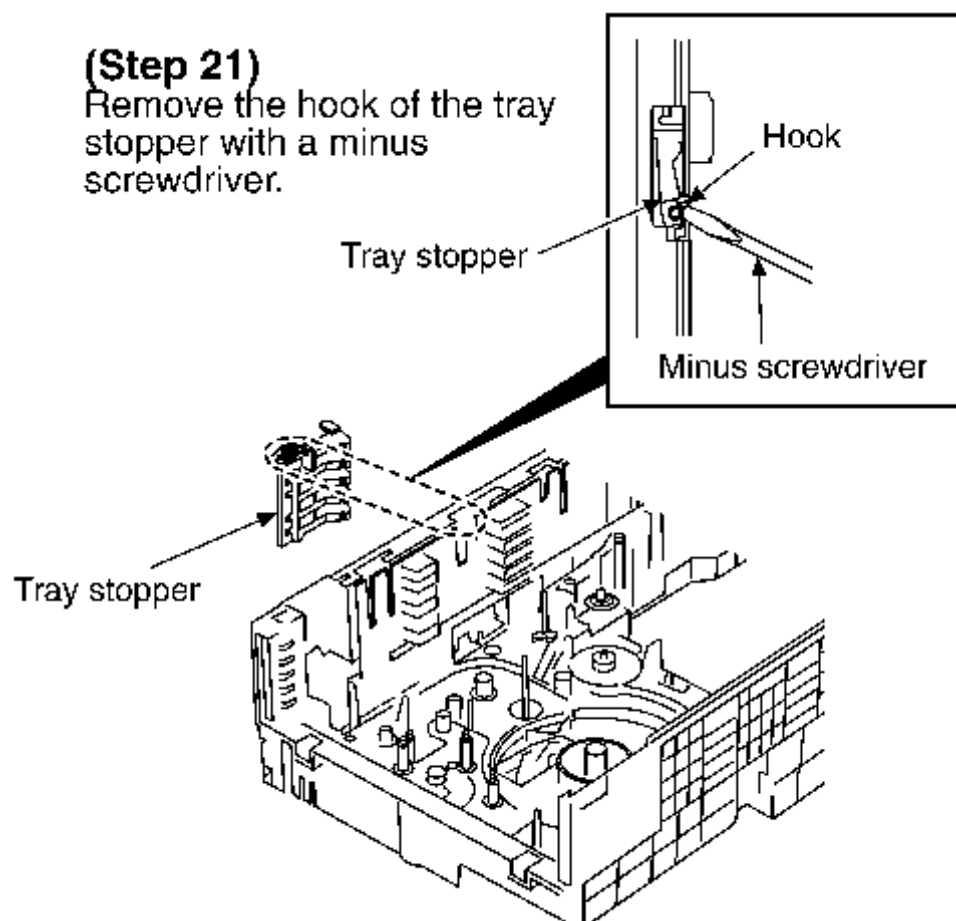
**(Step 20)**

Remove the select guide after sliding upside.



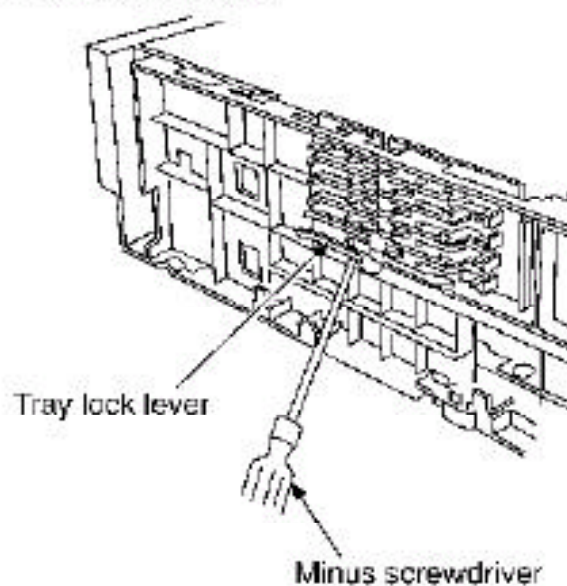
**(Step 21)**

Remove the hook of the tray stopper with a minus screwdriver.



**(Step 22)**

Remove the bottom of the tray lock lever with a minus screwdriver and others.



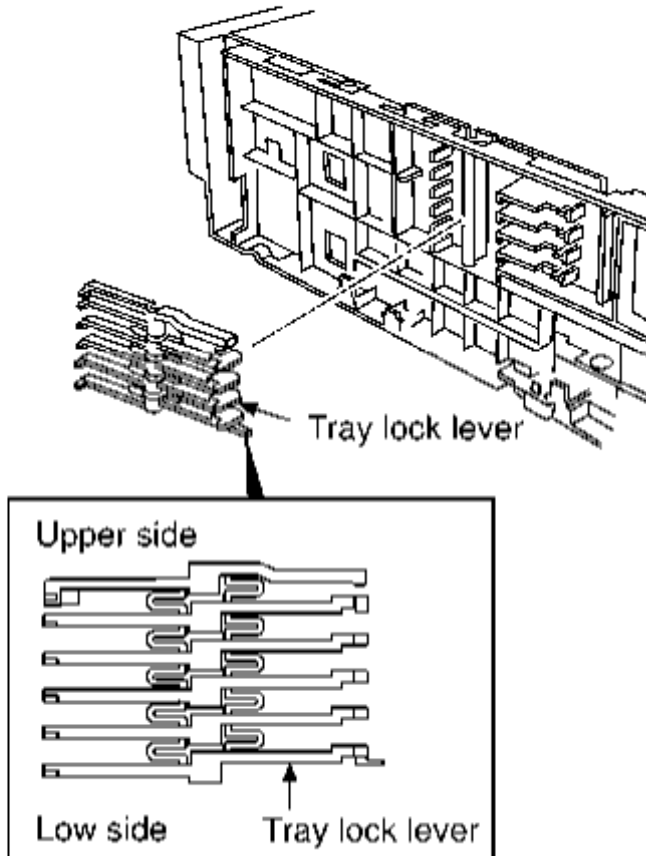
## 17.10 CR16 MECHANISM ASSEMBLY PROCEDURE

The following specified greases and/or oil must be applied when some specific parts are changed.

1. Floil grease (VFK1298) : The floil grease must be applied to tray, tray (L) and tray (R).
2. Hanarl oil (VFK1700) : The hanarl oil must be applied to any parts with grease other than the said parts.

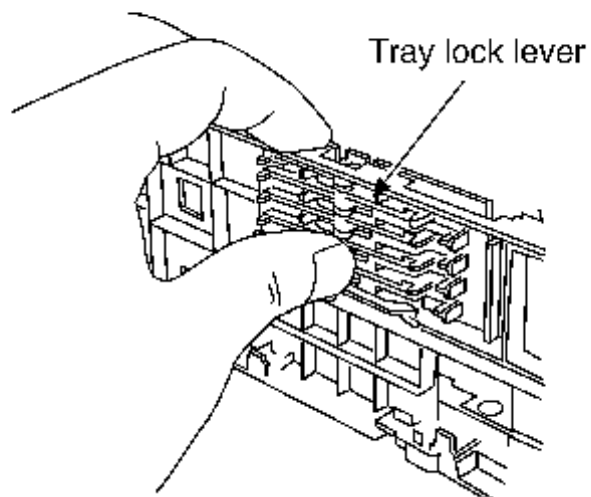
### (Step 1)

Install the tray lock lever to mechanism base.



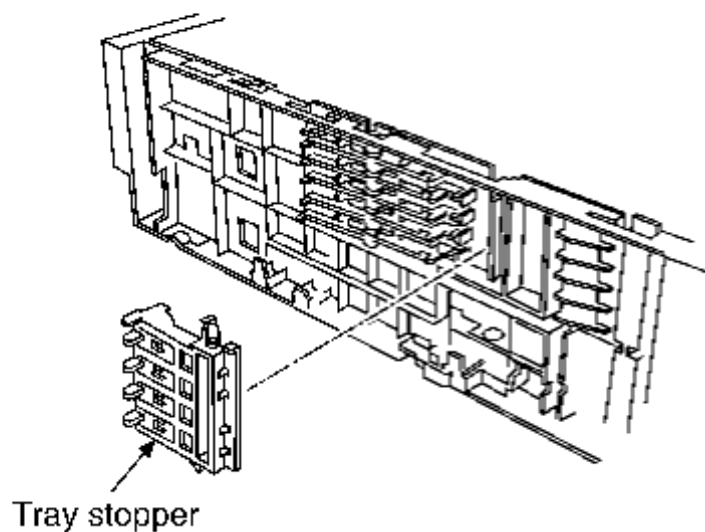
### (Step 2)

Push the tray lock lever with a hand and install it.



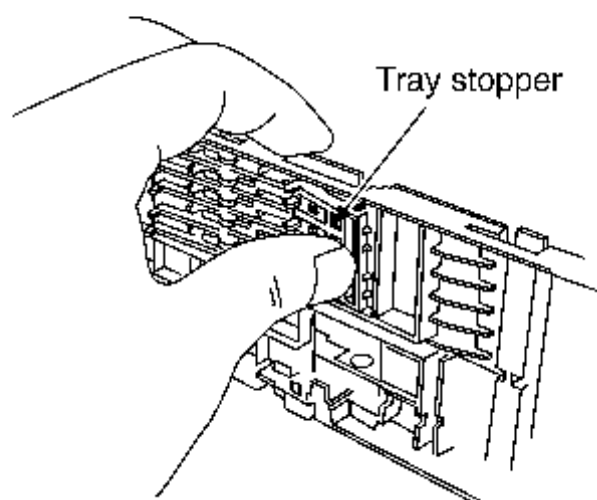
**(Step 3)**

Install the tray stopper to mechanism base.



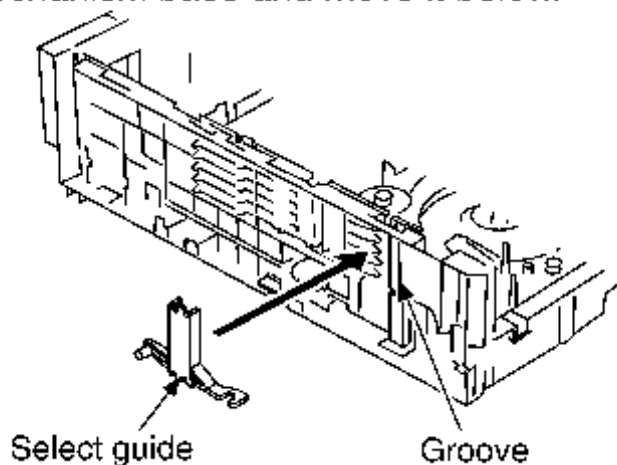
**(Step 4)**

Push the tray stopper with a hand and install it.



**(Step 5)**

Insert the select guide with a groove of the mechanism base and move it below.



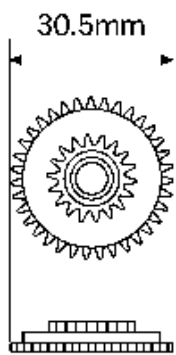
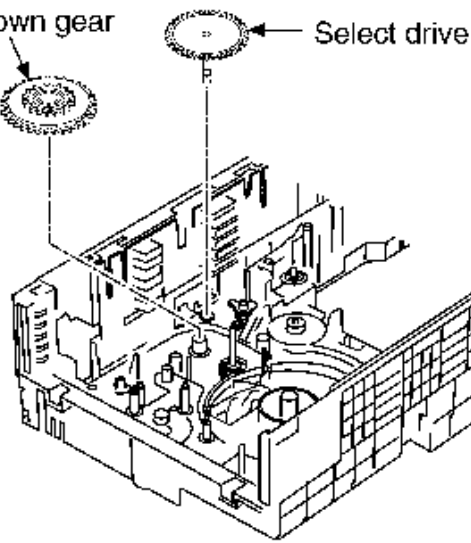
**(Step 6)**

Install the select speed down gear to mechanism base.

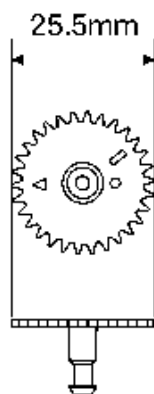
**(Step 7)**

Install the select drive gear to mechanism base.

Select speed down gear      Select drive gear



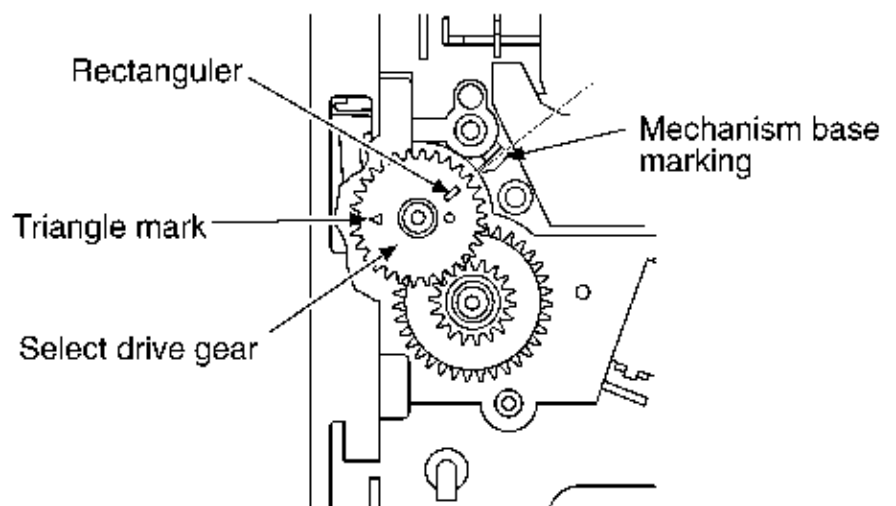
Select speed down gear  
(White)



Select drive gear  
(White)

**(Step 8)**

Fit a mechanism base marking to the rectangular mark of gear so that the triangle mark can indicate the sideward direction.



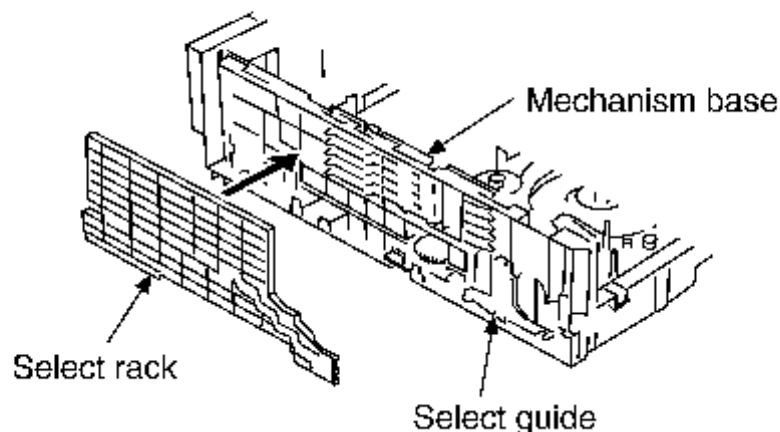
### (Step 9)

Install the select rack to mechanism base.

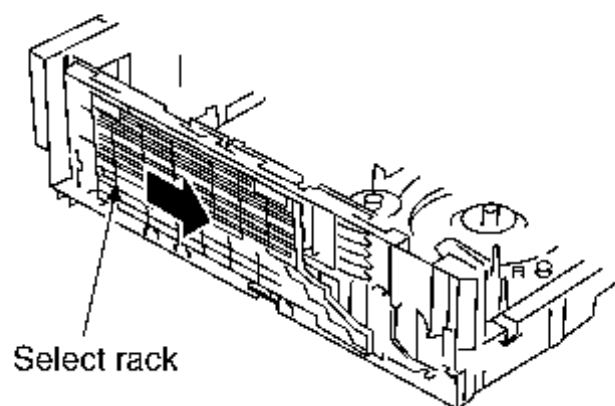
(Checking items before the installation.

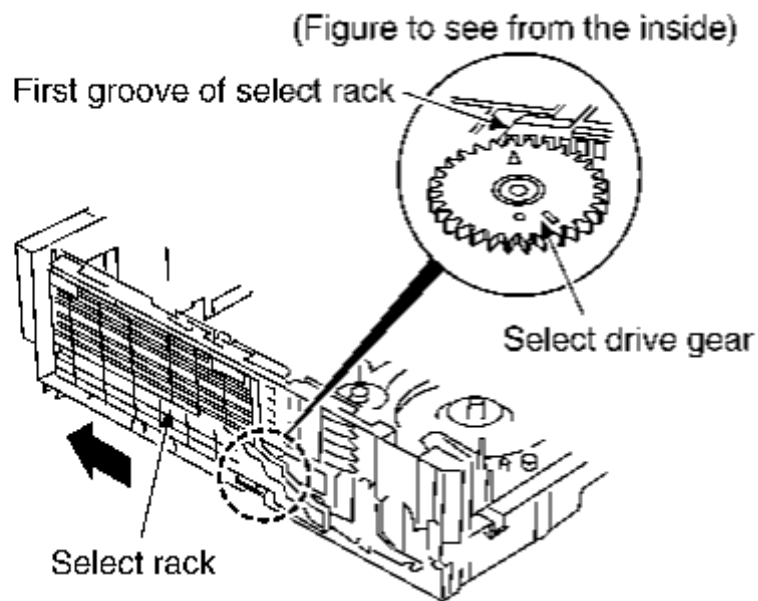
1. Check select guide is completely in lowest position.
2. Check its phase of select drive gear is correct position.(Rectangle/Triangular mark)(Refer to Step 8)

1. Put a select rack down with it fitted to its circumference of mechanism base.



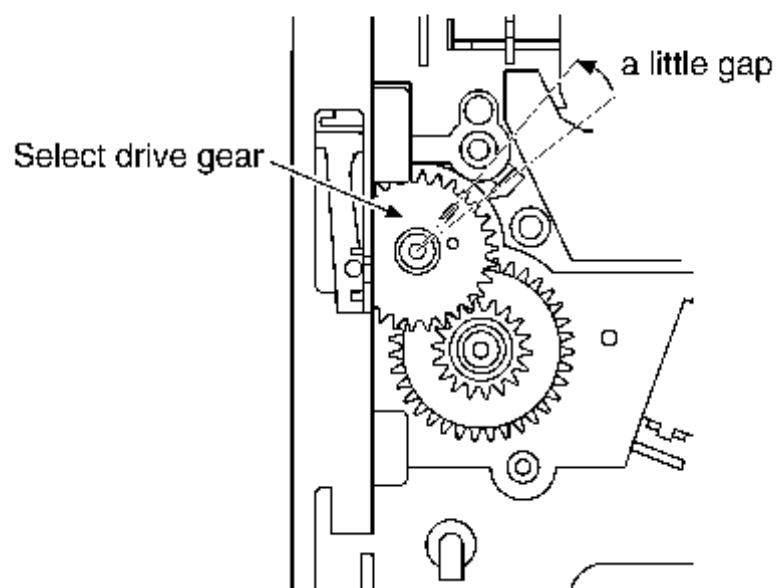
2. Slide the select rack with it's pushing to a little right direction and install it.





3. Check whether its end of triangular mark is in first groove of select rack, after fixing.
4. After insertion of select rack, continue the following work until the indication that it gese forward. And, all the while it must be checked that select rack is in the extreme end.

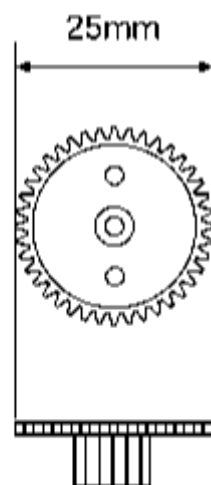
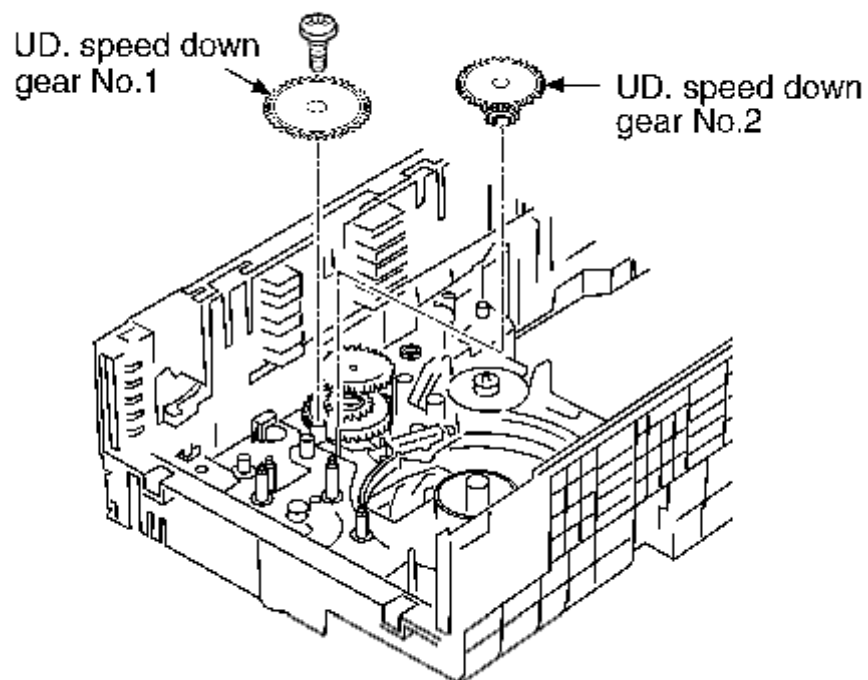
5. After insertion the select rack, the marking of select gear has a little gap when it is in the extreme end.



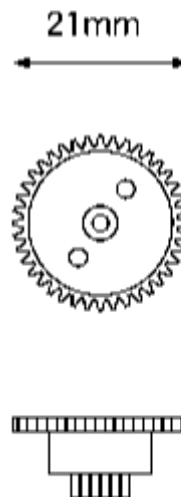


**(Step 10)**

Install the UD. speed down gear No.1 and  
UD. speed down gear No.2.



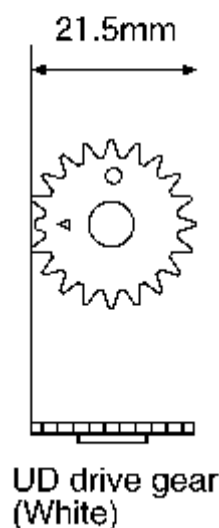
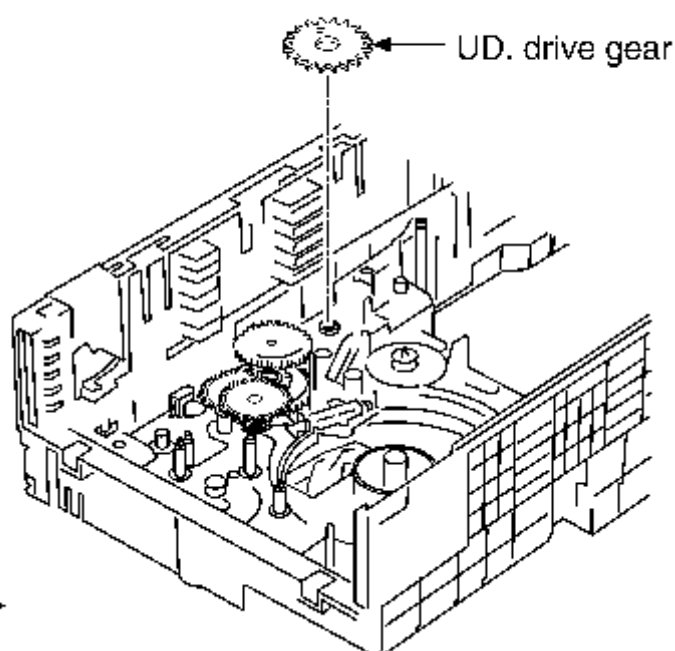
UD. speed down gear No.1  
(White)



UD. speed down gear No.2  
(Semi-transparent)

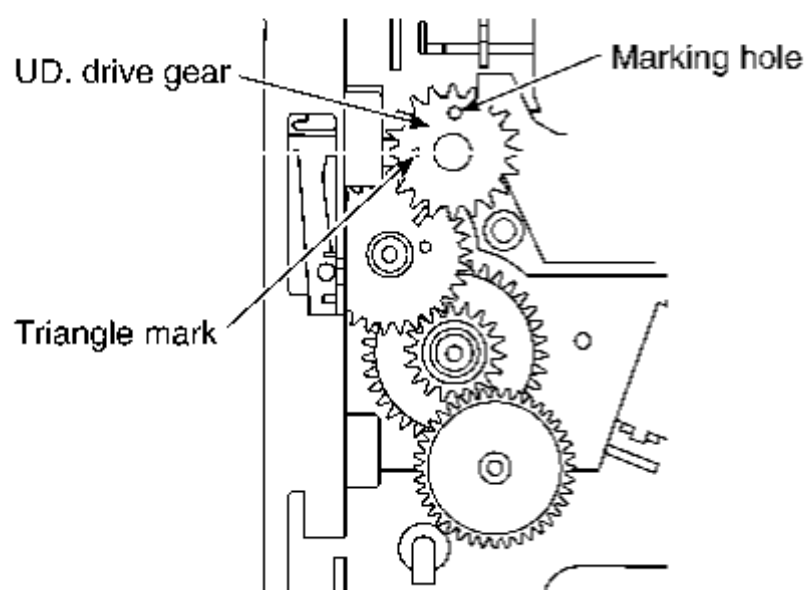
### (Step 11)

Install the UD. drive gear to mechanism base.



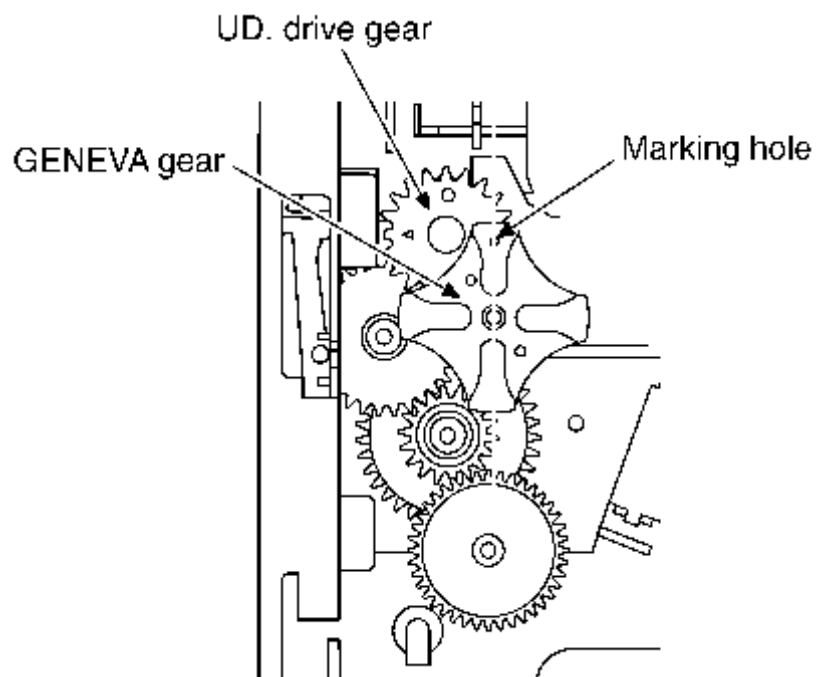
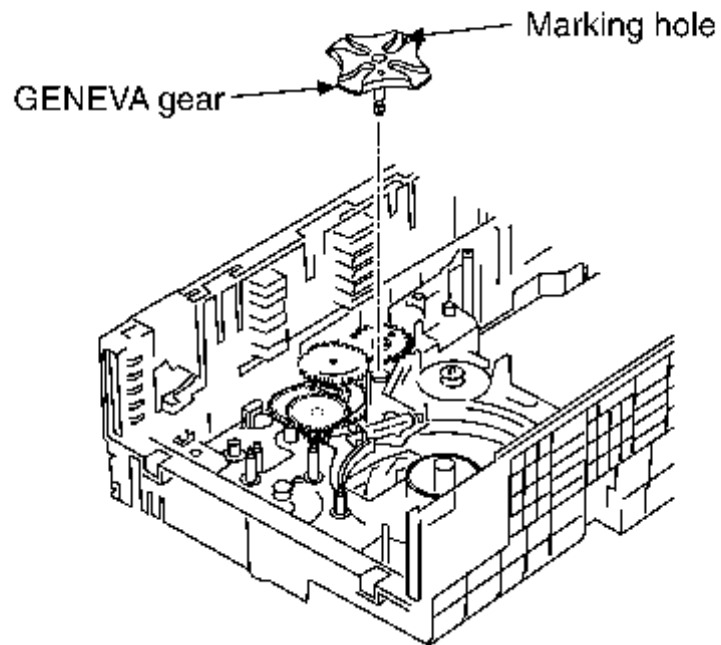
### (Step 12)

Insert the UD. drive gear with its marking hole upward.  
At that time, its triangle mark should be sideways.



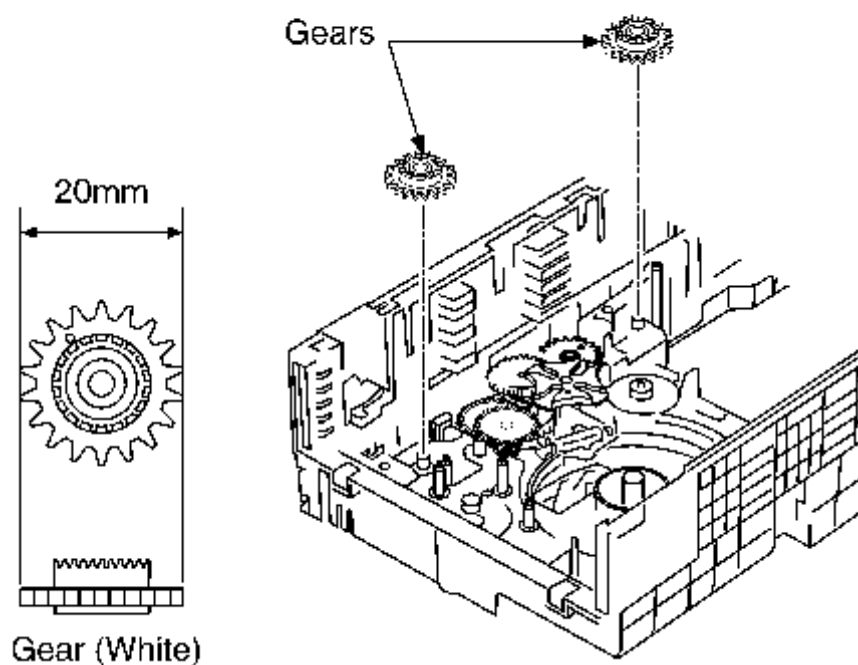
**(Step 13)**

Insert the GENEVA gear with its marking hole upward, and fix it by 2 hooks on bottom of mechanism base. At that time, UD. drive gear mustn't be moved.



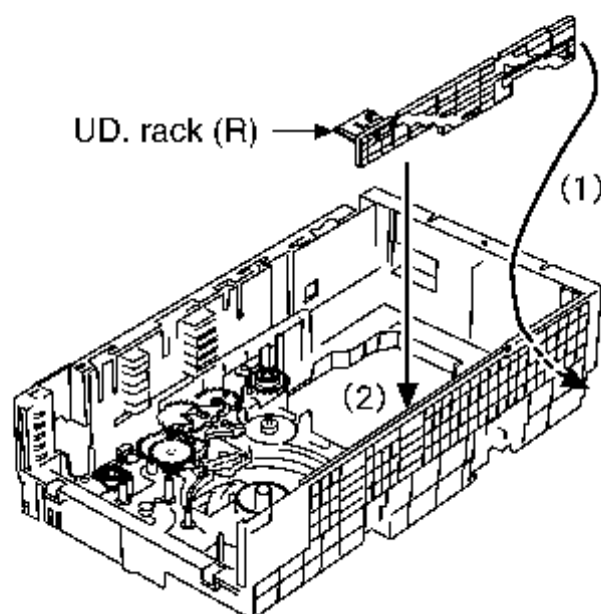
**(Step 14)**

Install the 2 gears to mechanism base.



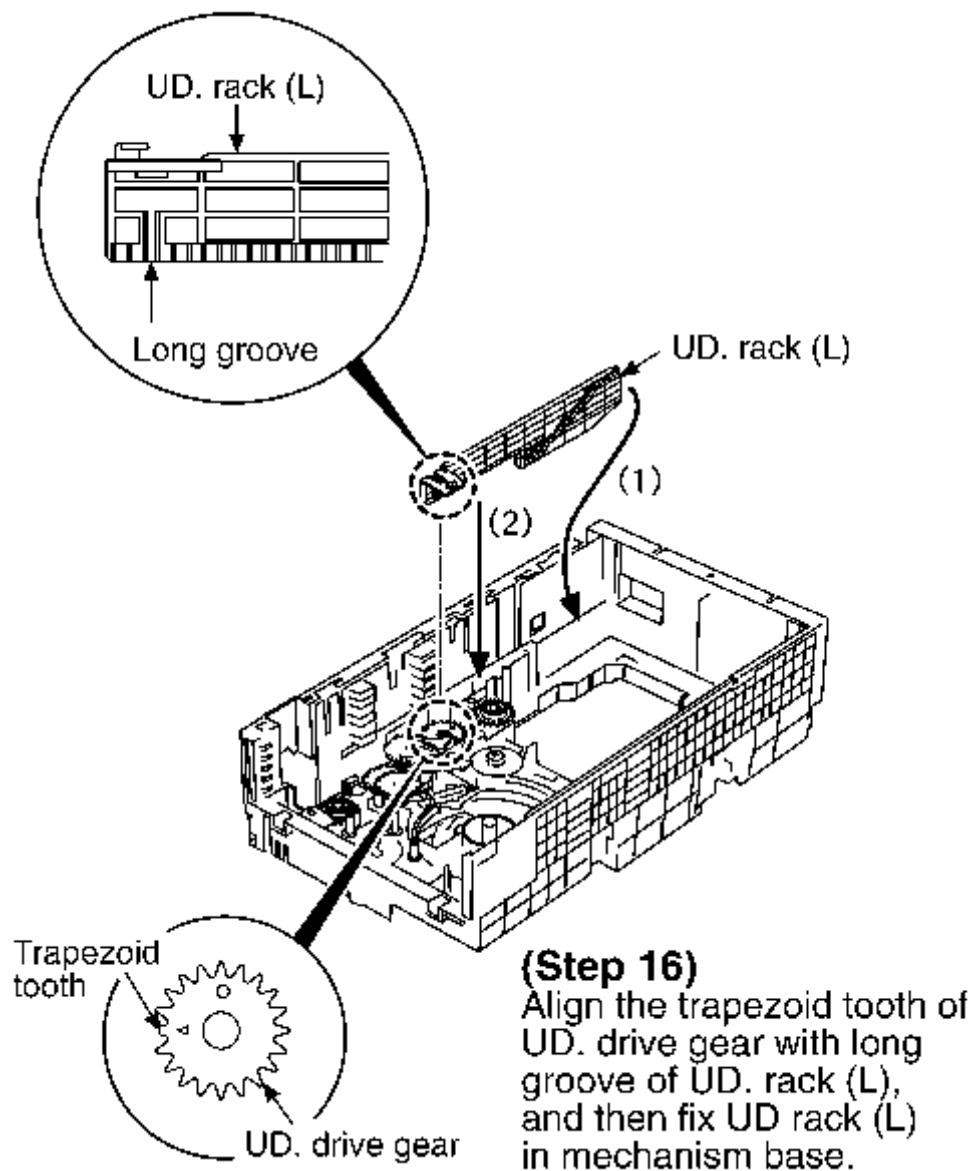
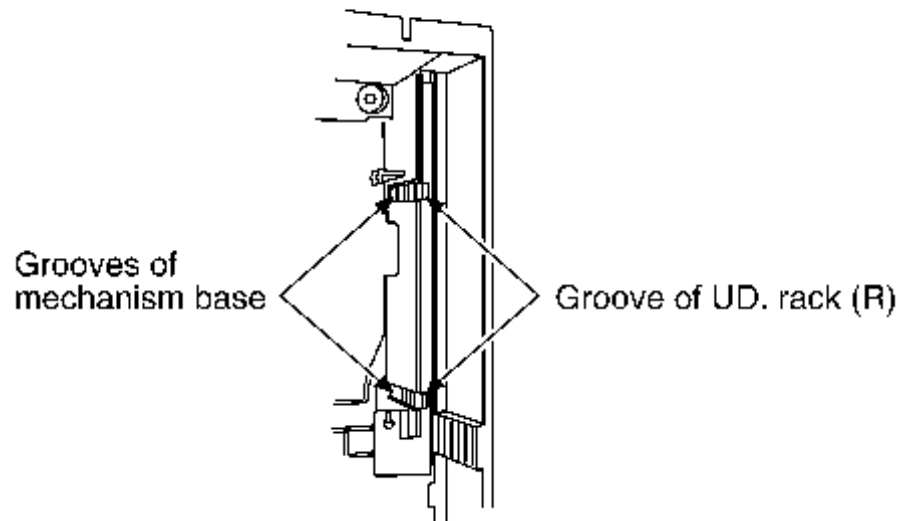
**(Step 15)**

Insert the UD. rack (R) to (2) from arrow (1).

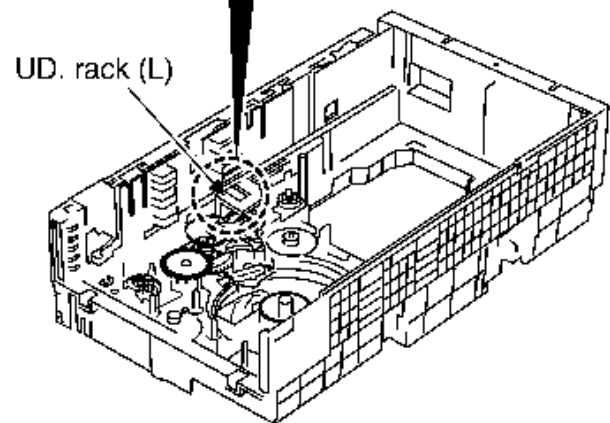
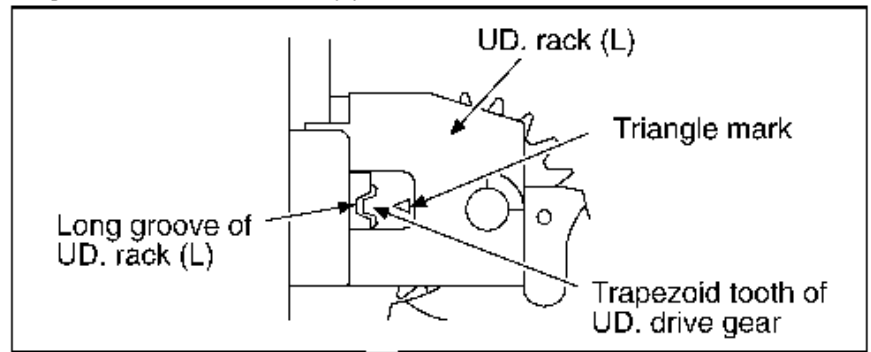


**NOTE:**

Put a groove of the mechanism base to the UD. rack (R).

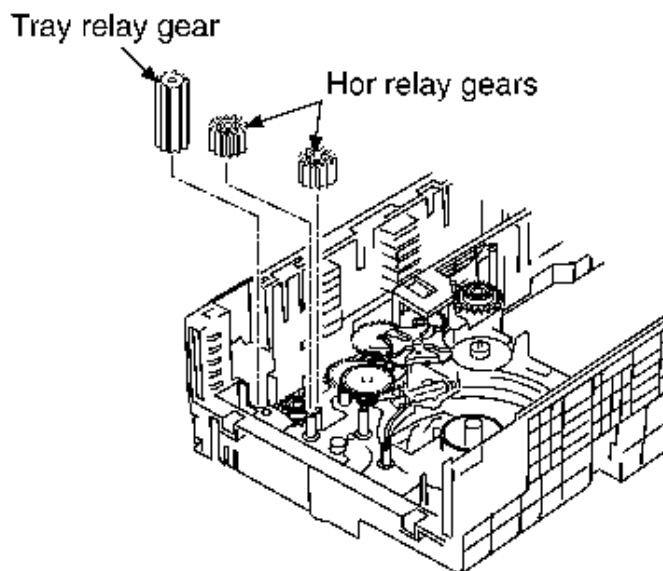


(Figure to see from the upper side)



**(Step 17)**

Install the tray relay gear and 2 hor relay gears.



15.5mm

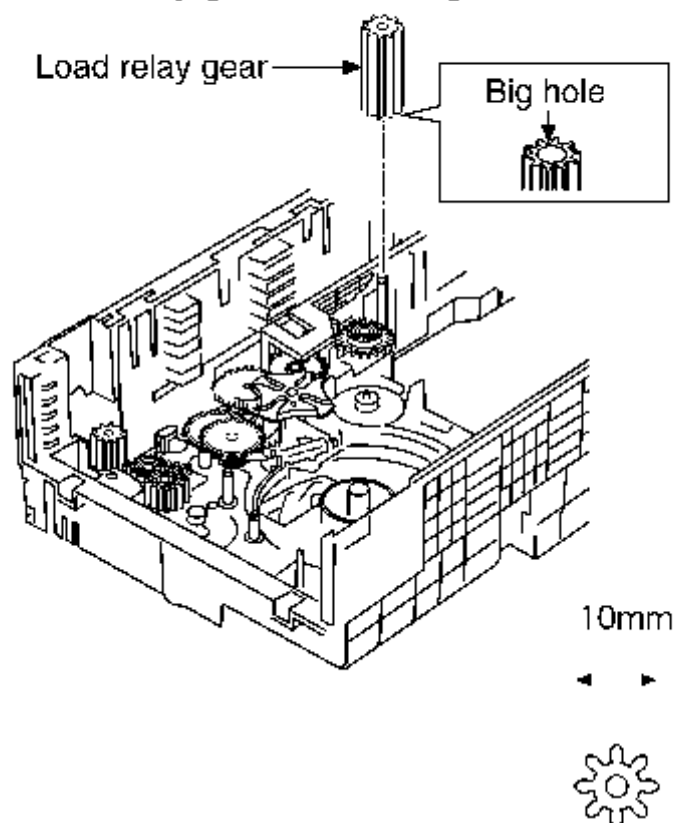


12mm



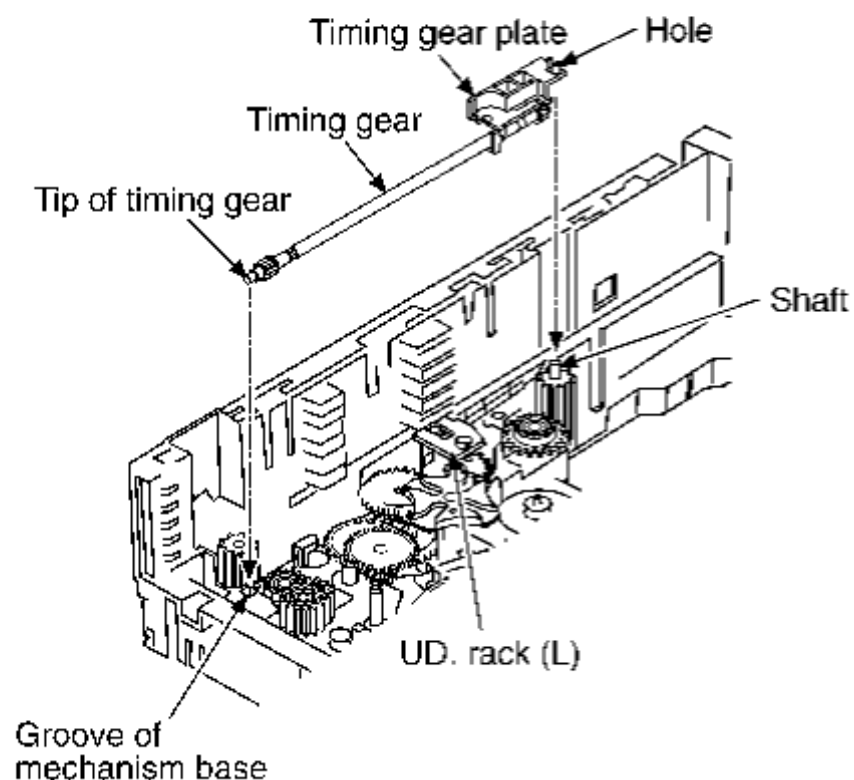
### (Step 18)

Install the load relay gear to mechanism base.  
(Fit load relay gear with its big hole downward.)



### (Step 19)

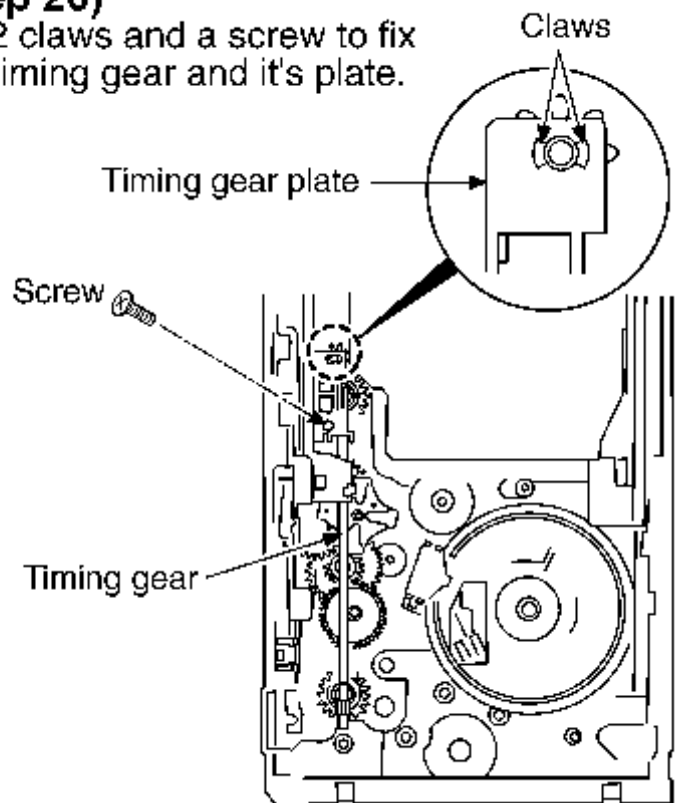
Put on the top of the timing gear, then, install the timing gear and it's plate.  
At that time avoid the UD. rack (L).



Load relay gear  
(White)

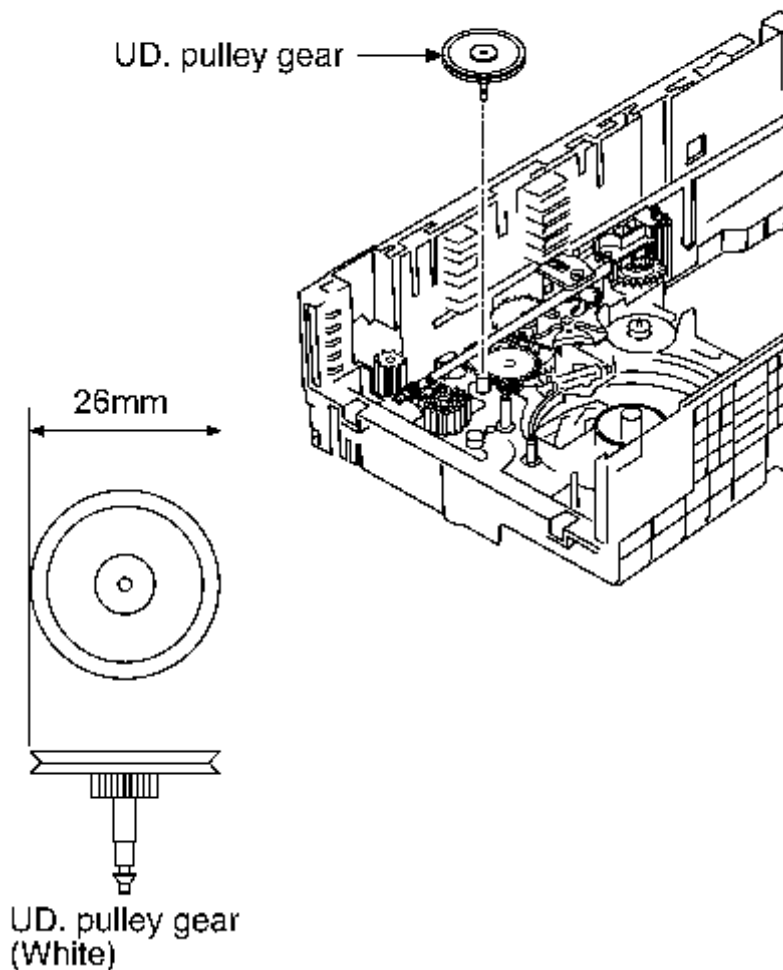
**(Step 20)**

Fix 2 claws and a screw to fix the timing gear and its plate.



**(Step 21)**

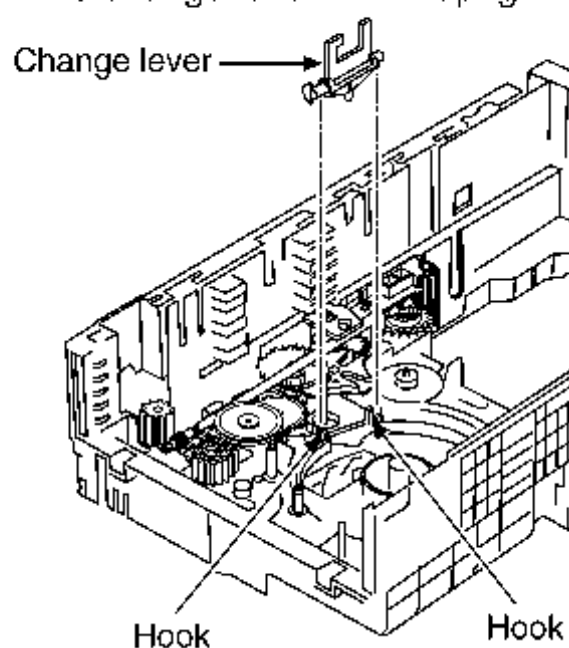
Install the UD. pulley gear to mechanism base.





**(Step 22)**

Insert the change lever with it upright.

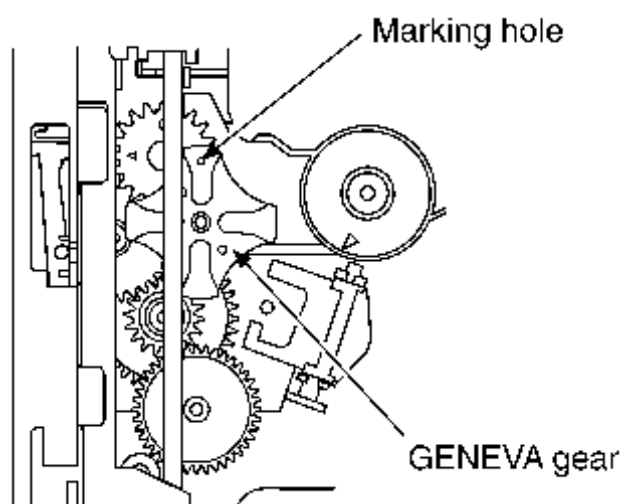
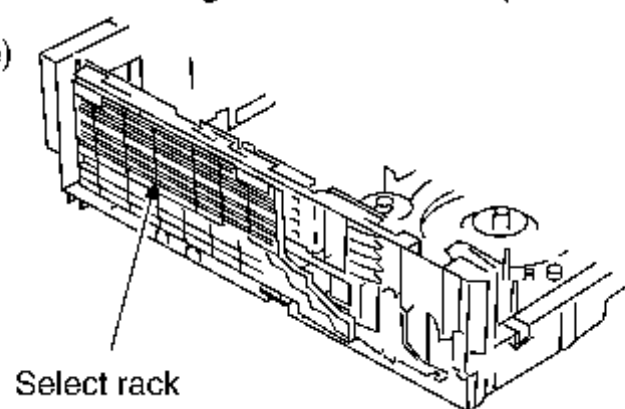


**(Step 23)**

Be sure the notice of bellow before fixing the change gear.

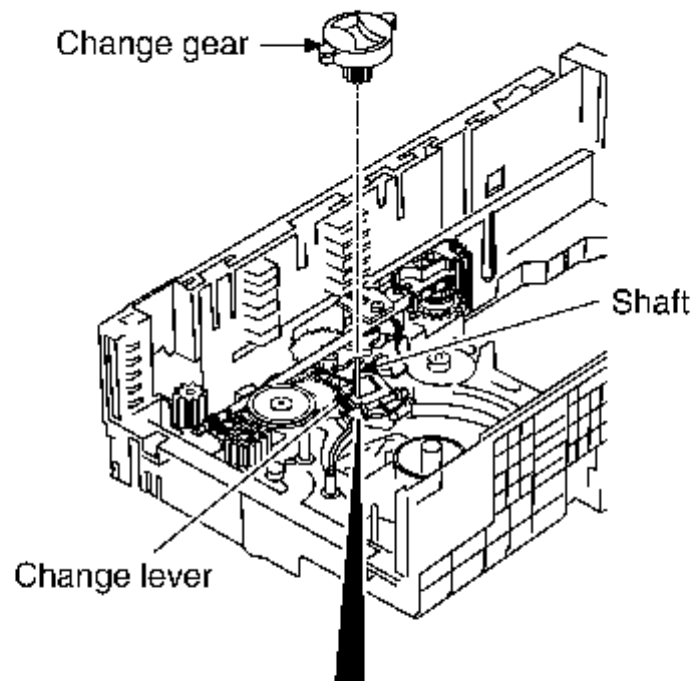
1. Select track should be in the rear of mechanism base.
2. Its hole of GENEVA gear should turn up.

(Rear side)

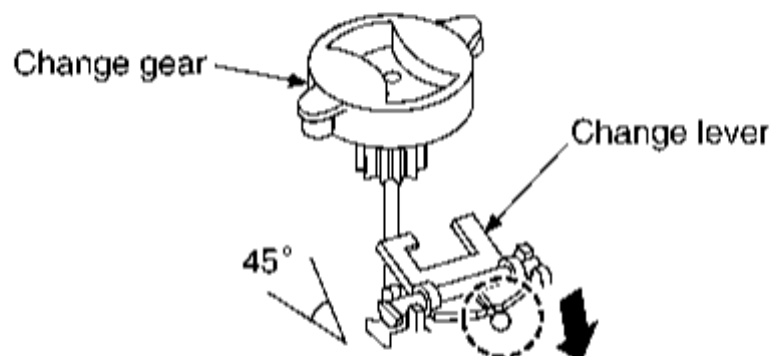


**(Step 24)**

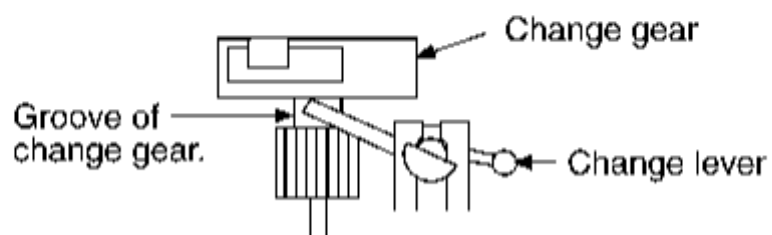
Install the change gear as insert the change lever into the groove of change gear.



1. Pushing the ○ part and pull up the change lever 45°.



2. Insert the change lever into the groove of change gear.



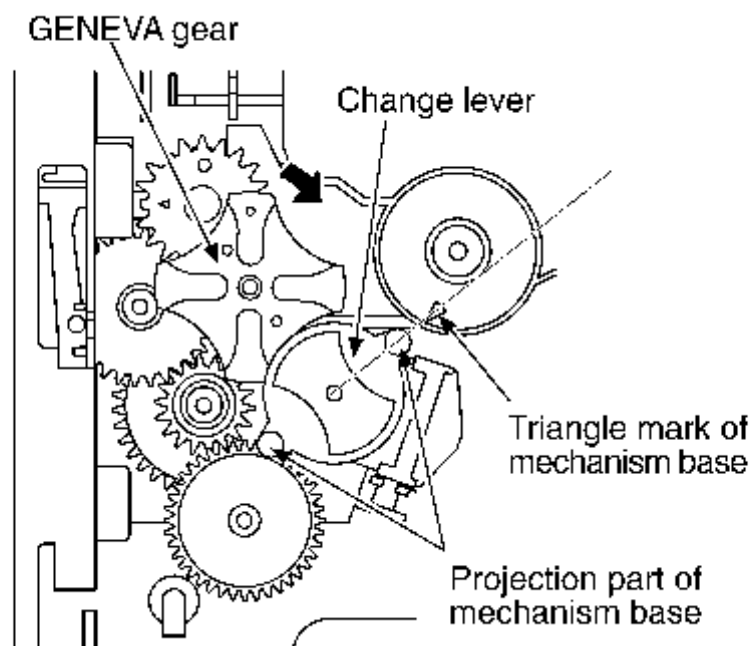
**(Step 25)**

Put change gear down with projection part of change gear fitted to triangle mark of mechanism base, when fixing change gear.

At that time, check change gear is inserted into the groove of change lever.

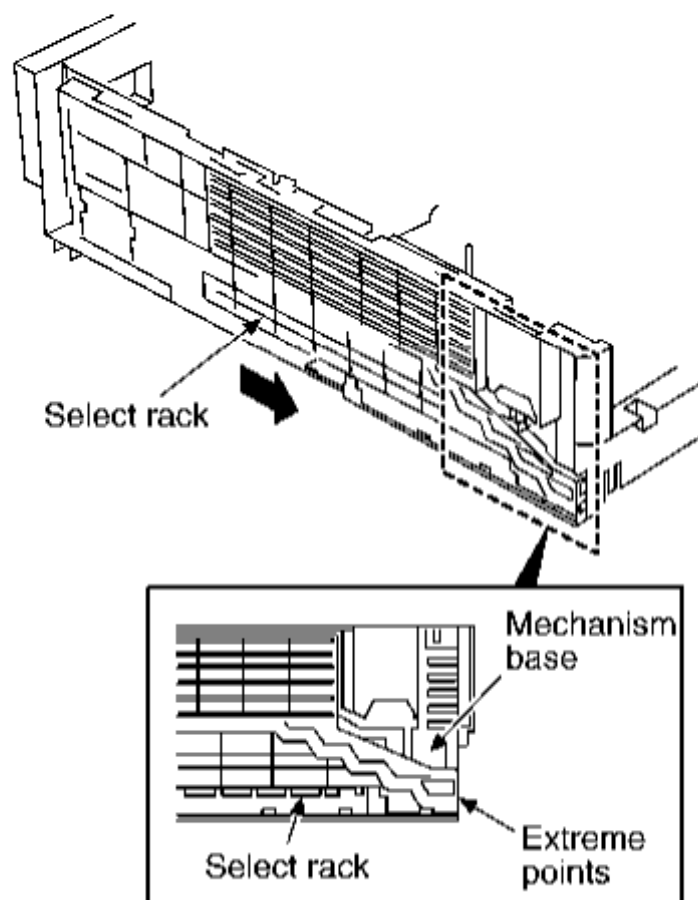
**(Step 26)**

Lastly, turn GENEVA gear clockwise slightly and drop change gear to mechanism base.



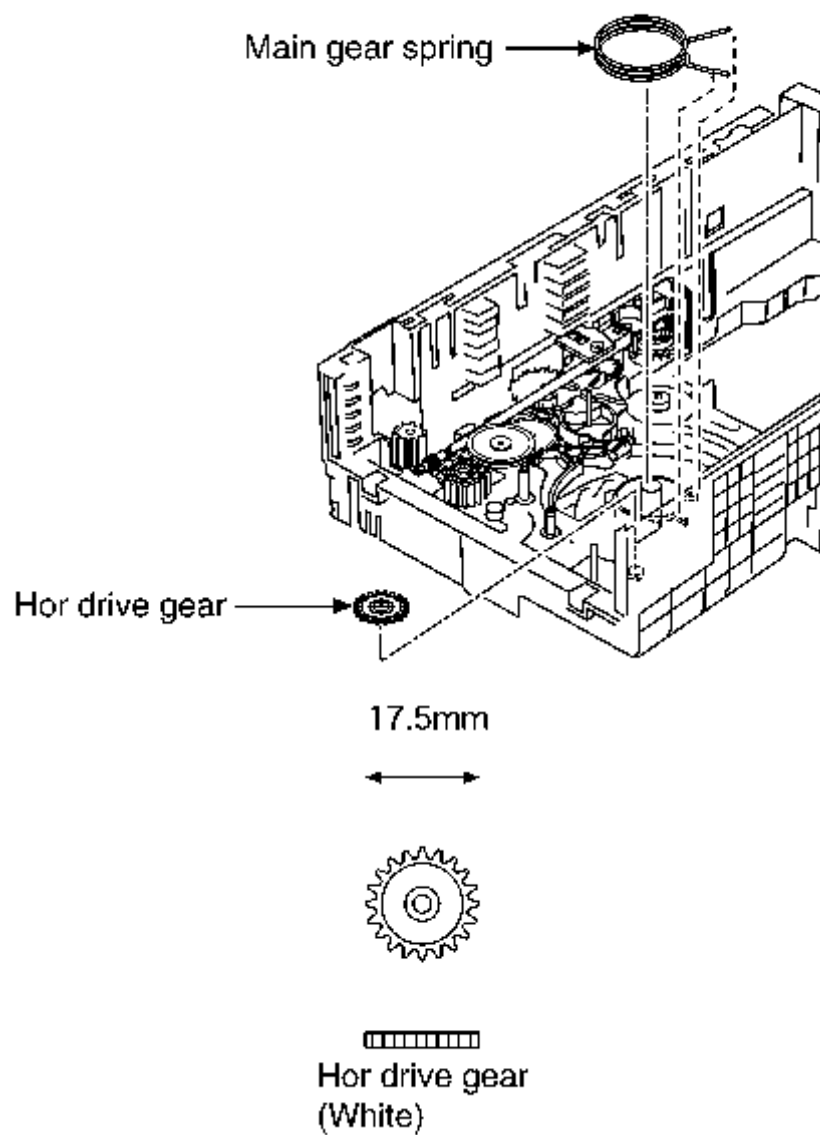
**(Step 27)**

Move the select rack smoothly forward manually until 2 extreme points of both select track and mechanism base.



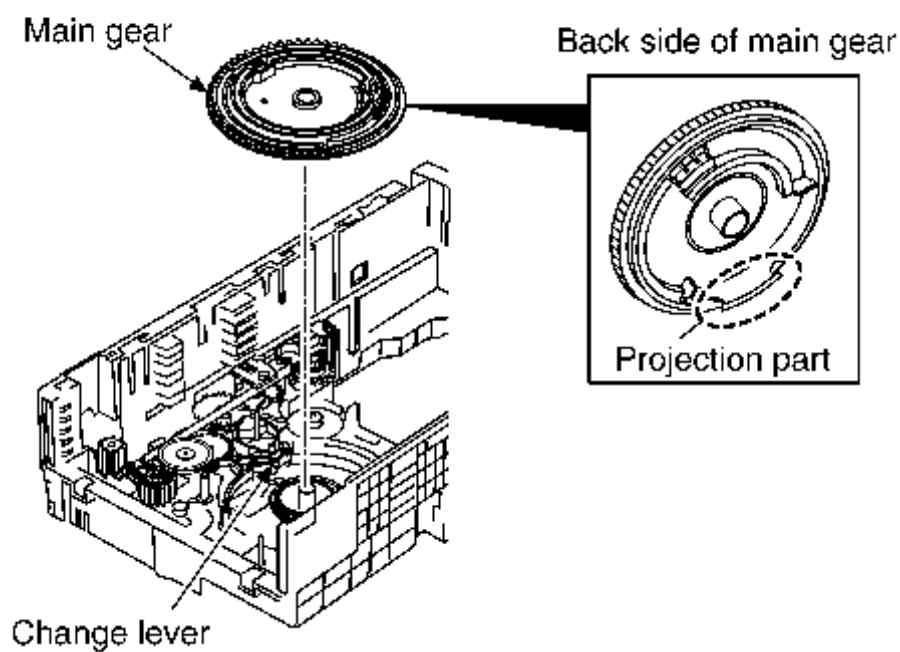
**(Step 28)**

Install the main gear spring and hor drive gear.



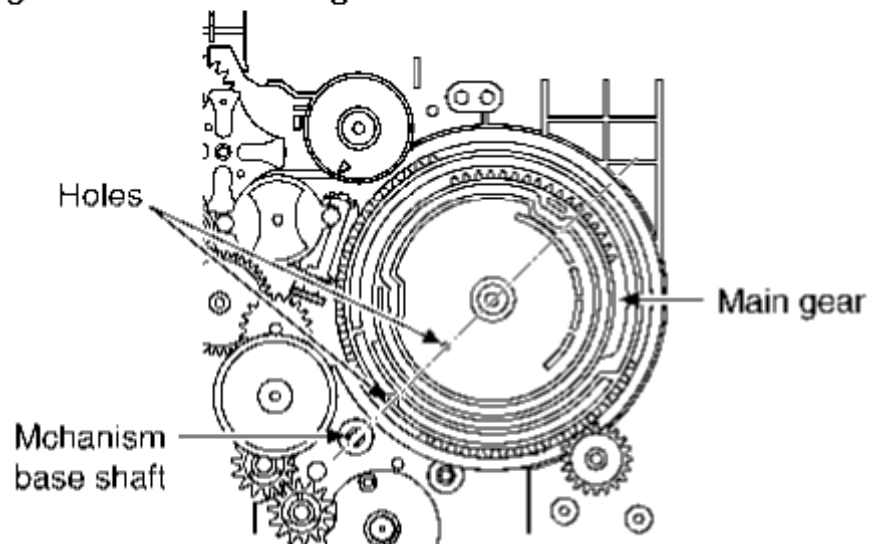
**(Step 29)**

Don't bring change lever into touch to projection part of main gear, when fixing main gear in mechanism base.



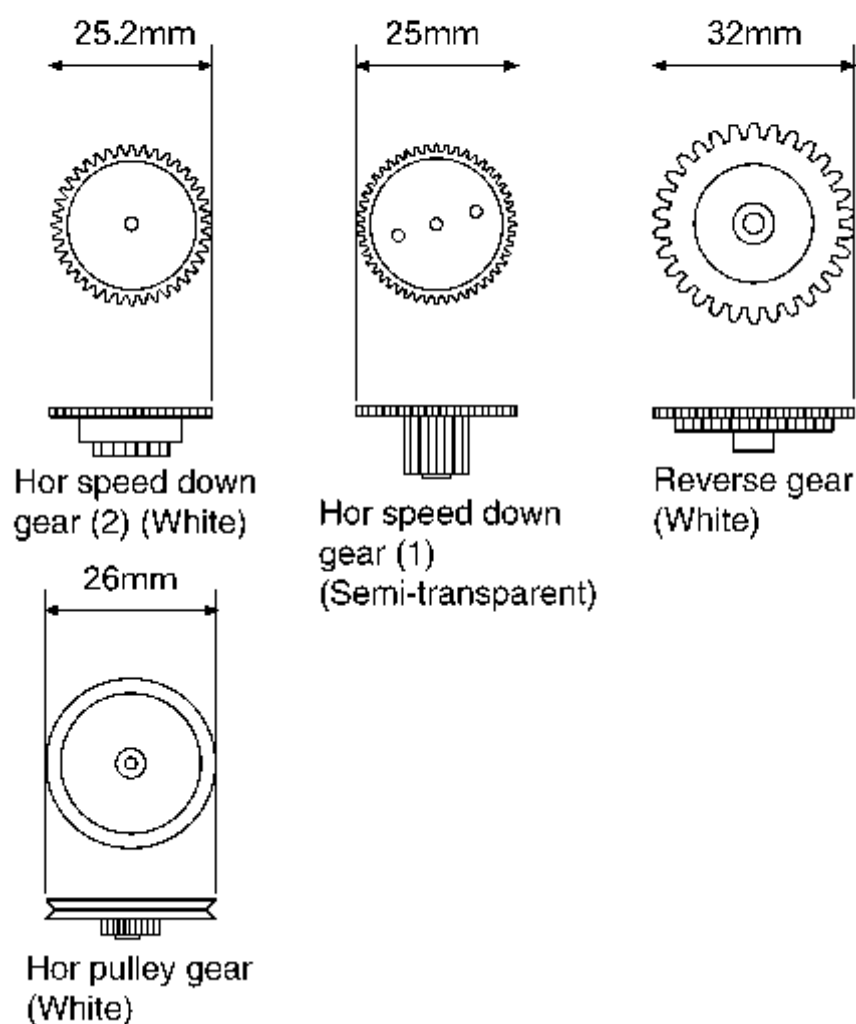
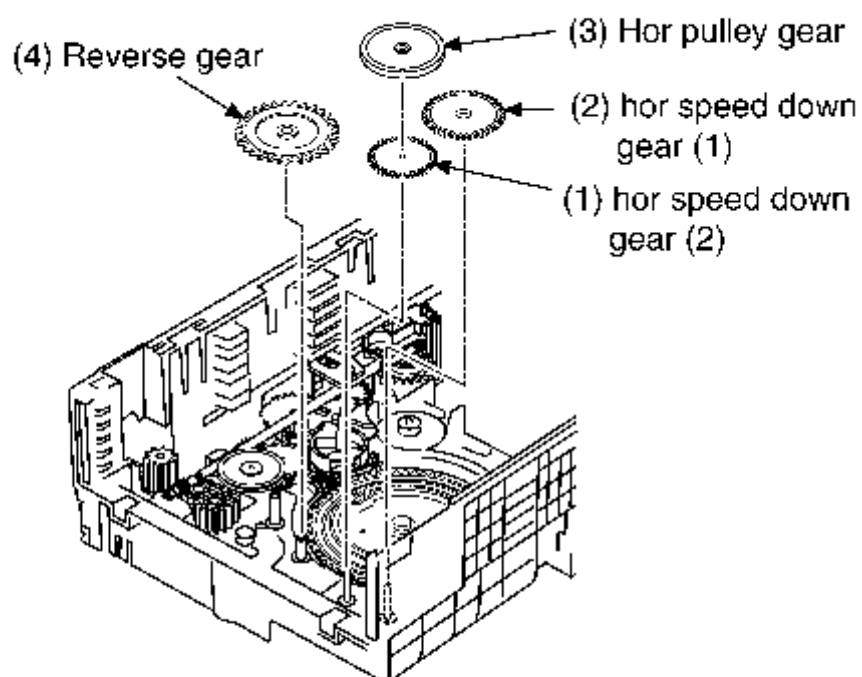
**(Step 30)**

After that, turn main gear so that 2 holes inside main gear would be in alignment with mechanism base.



### (Step 31)

Install the hor speed down gear (2), hor speed down gear (1), hor pulley gear and reverse gear.



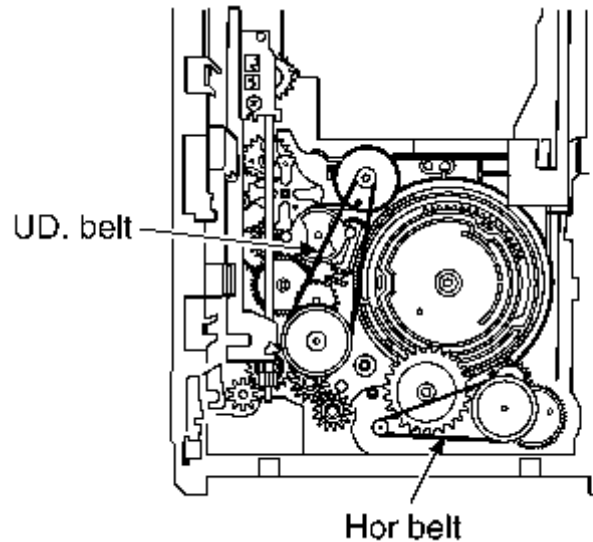


**(Step 32)**

Install the UD. belt and hor belt.

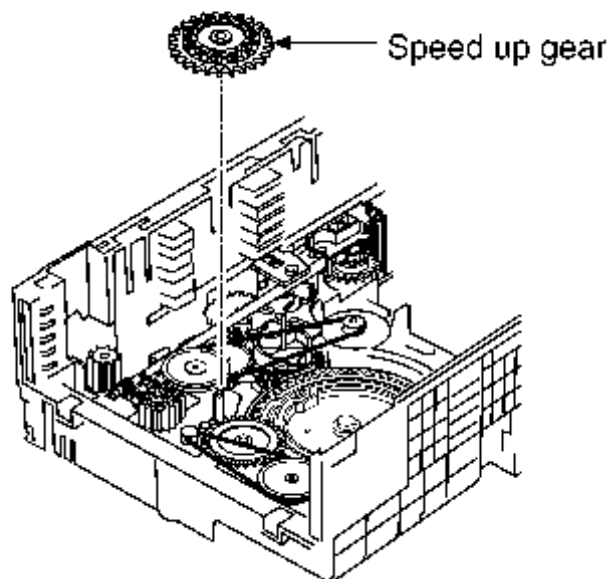
**NOTE:**

1. Take care not apply the grease to the belt.
2. Install the belt without twist.



**(Step 33)**

Install speed up gear to its shaft of mechanism base with 2 fitting.

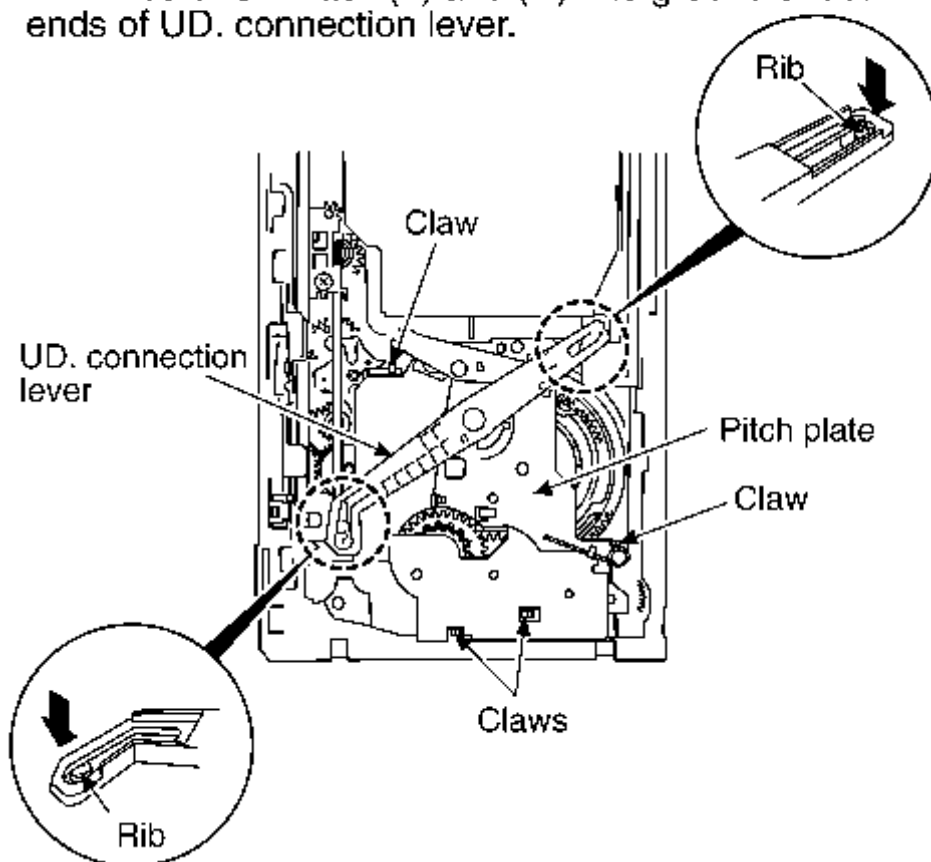


**(Step 34)**

Install the pitch plate. (The 4 claws should be latched.)

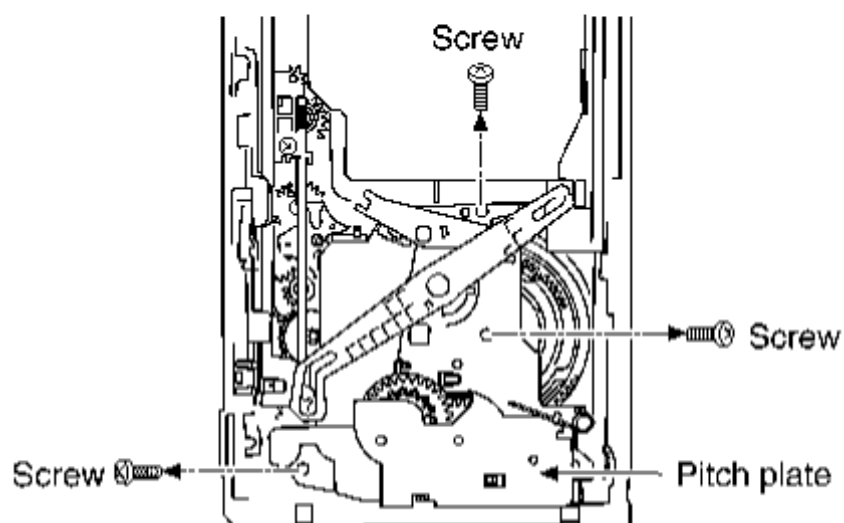
**(Step 35)**

Fix 2 ribs of UD. rack (L) and (R) into groove of both ends of UD. connection lever.



**(Step 36)**

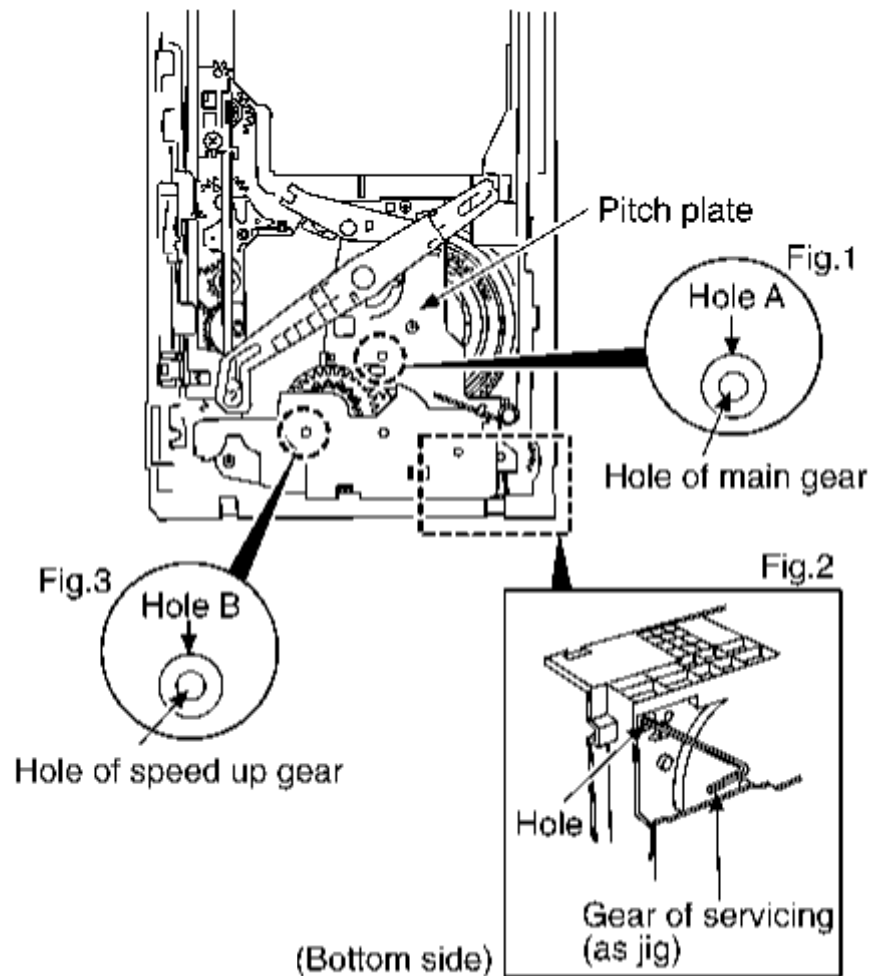
Fixed it by three screws further.



### (Step 37)

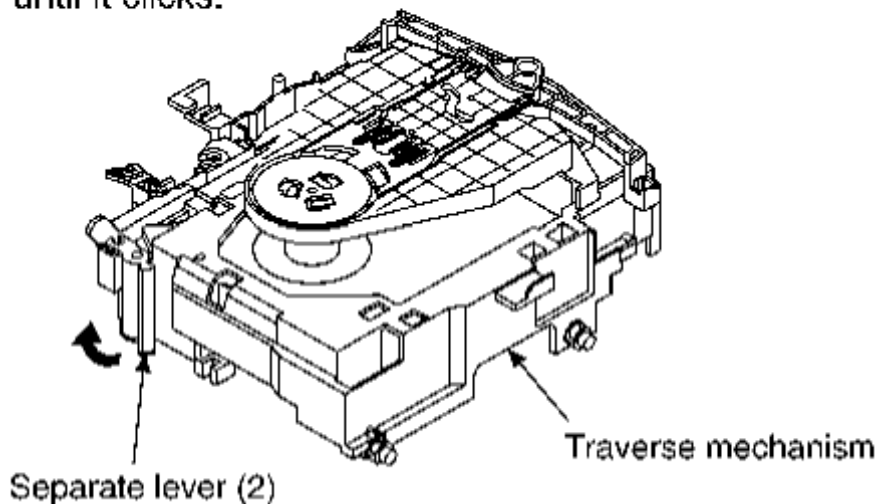
Be sure the notice of below before fixing the traverse mechanism.

1. Check that 2 holes of both pitch plate and main gear is fitted. (Refer to Fig.1)  
If it's not fitted, put the gear for servicing in the hole of the bottom side and adjust it. (Refer to Fig.2)
2. Check that 2 holed of both pitch plate and speed up gear is fitted. (Refer Fig.3)  
If it's not fitted turn the speed up gear to adjust it.



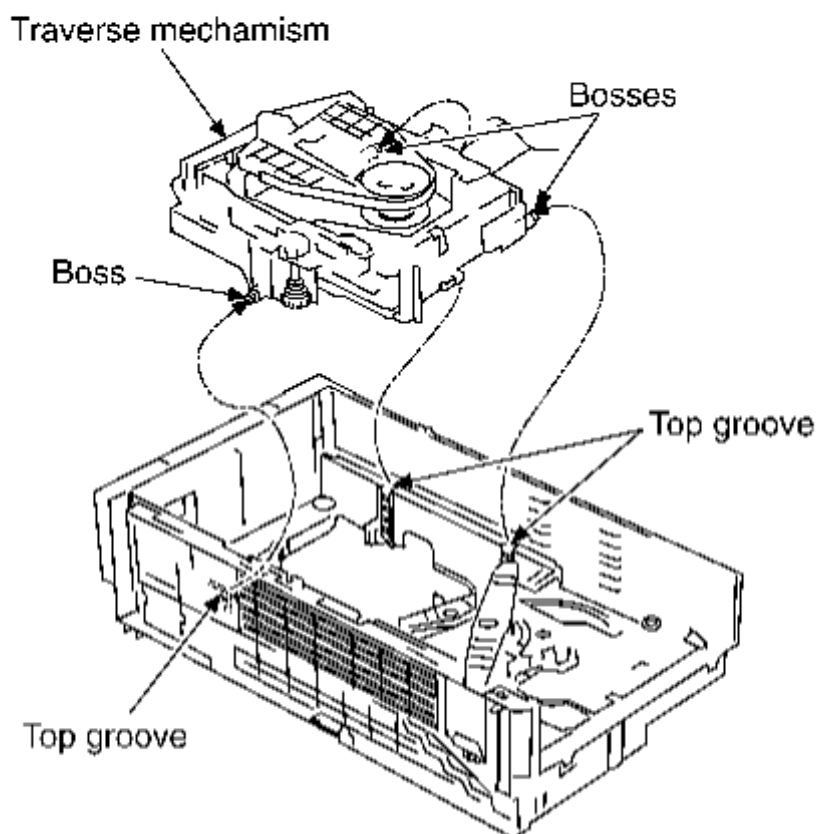
### (Step 38)

Turn the separate lever (2) slowly toward left side until it clicks.



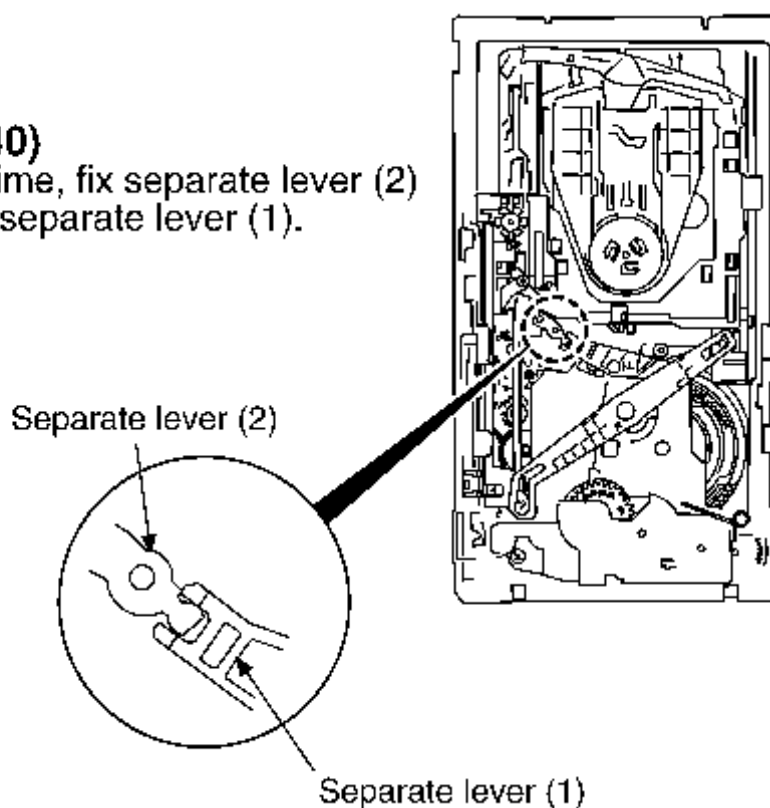
**(Step 39)**

Fix the left boss into the top groove of the UD. rack (L) and fix 2 bosses into the groove of the UD. rack (R).



**(Step 40)**

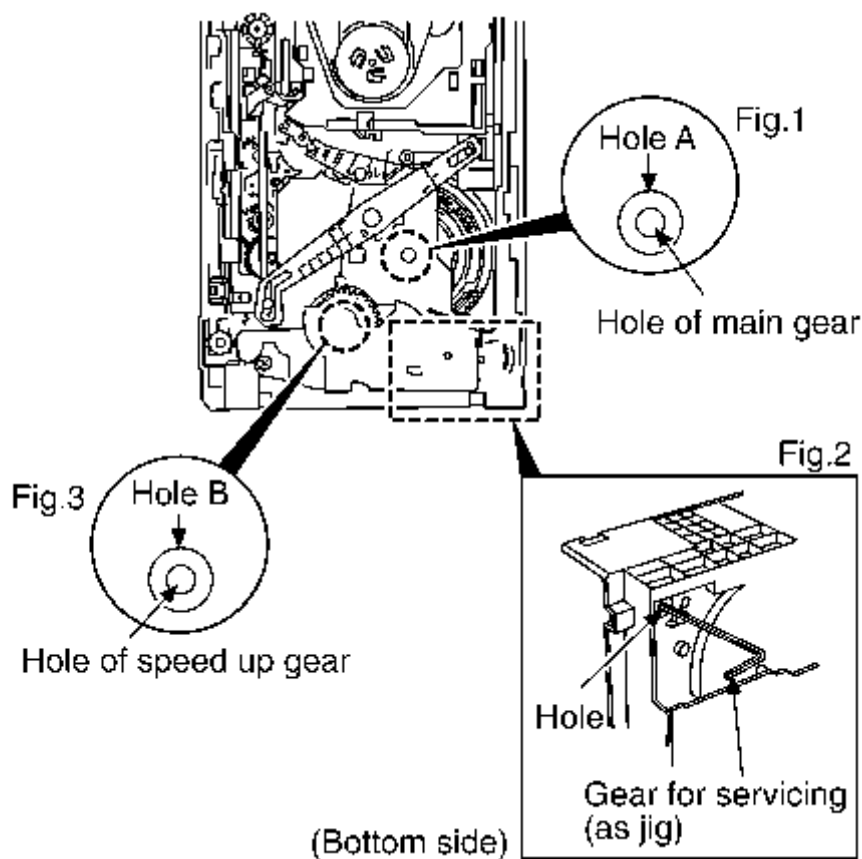
At that time, fix separate lever (2) into the separate lever (1).



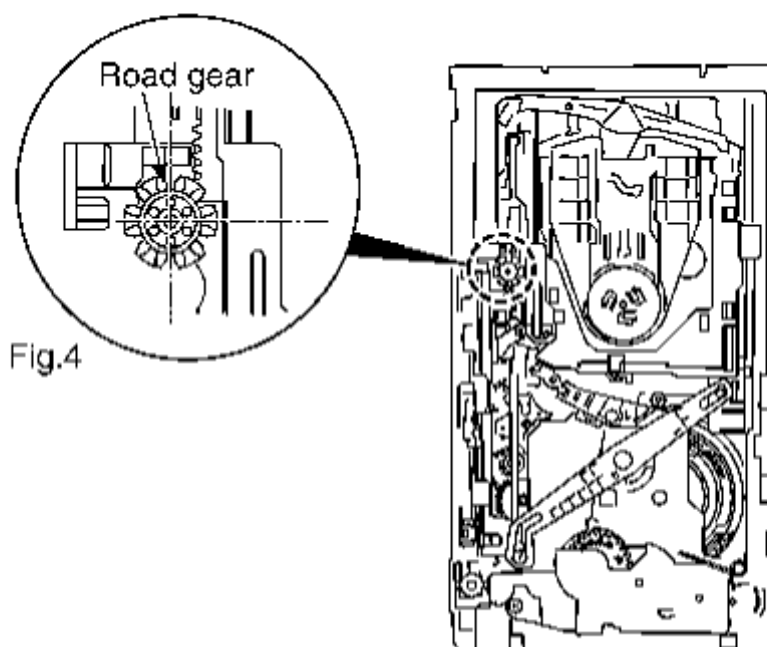
### (Step 41)

After the traverse mechanism fixed,  
confirm the phase in order below.

1. Check that 2 holes of both pitch plate and main gear is fitted. (Refer to Fig.1)  
If it's not fitted, put the gear for servicing in the hole of the bottom side and adjust it. (Refer to Fig.2)
2. Check that 2 holes of both pitch plate and speed up gear is fitted. (Refer Fig.3)  
If it's not fitted turn the speed up gear to adjust it.

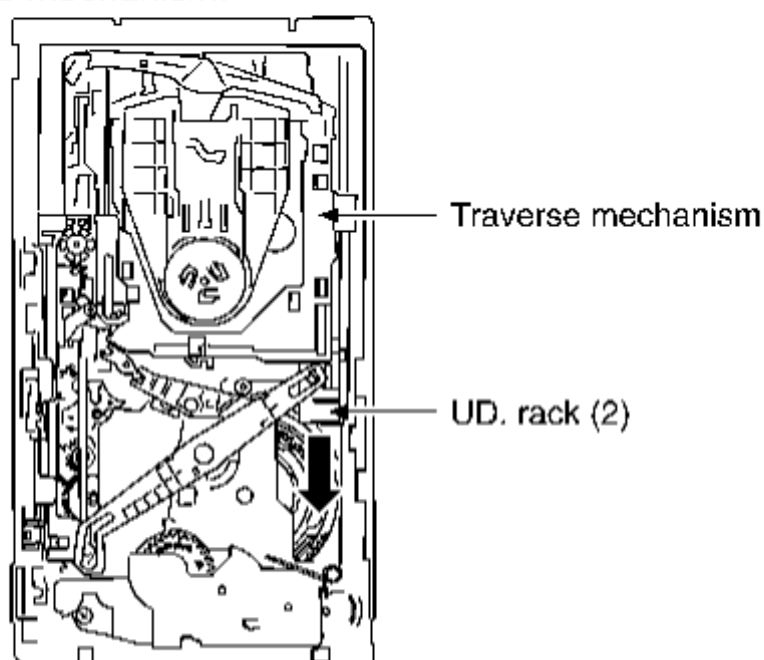


3. In the cog of road gear, the groove with it's cutting halfway set side ward. (Refer to Fig.4)  
Remove the traverse mechanism again when it is not set side ward and install it after adjustment of inserting position.  
NOTE: By this time, do not adjust to rotate the road gear.



#### (Step 42)

After insertion of traverse mechanism, pull the UD. rack (R) on this side that each phase is "OK" and then lock the traverse mechanism.



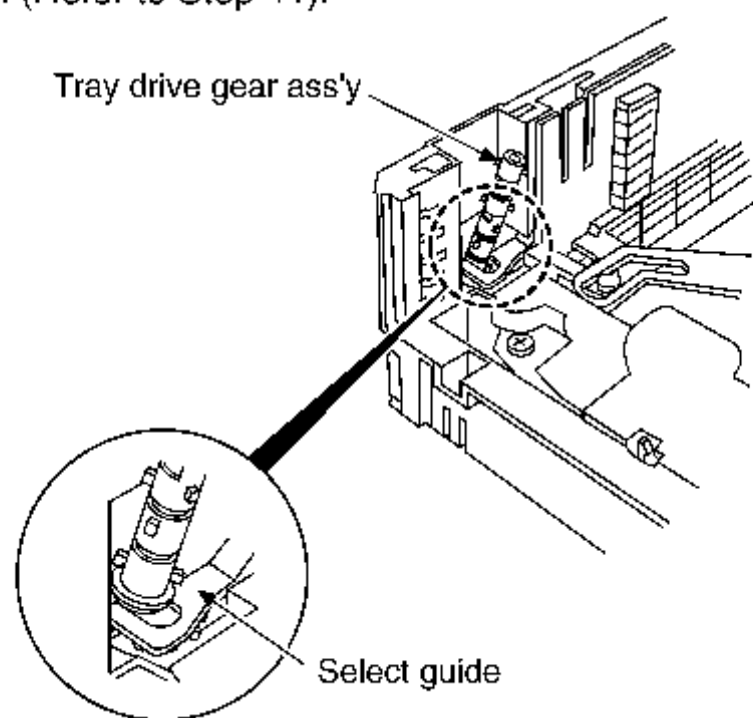
**(Step 43)**

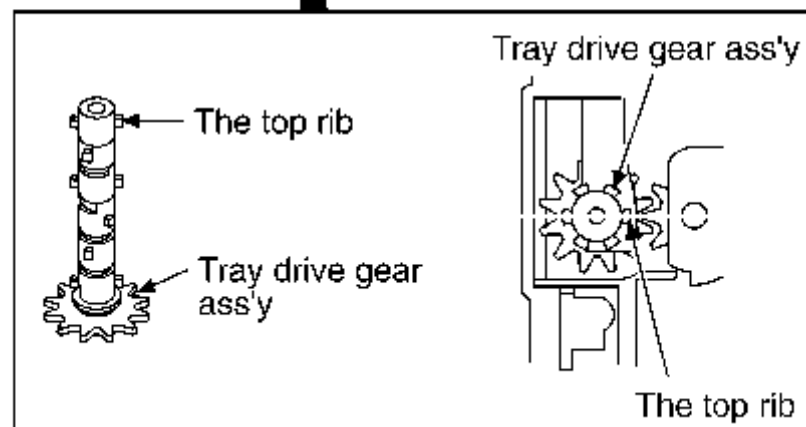
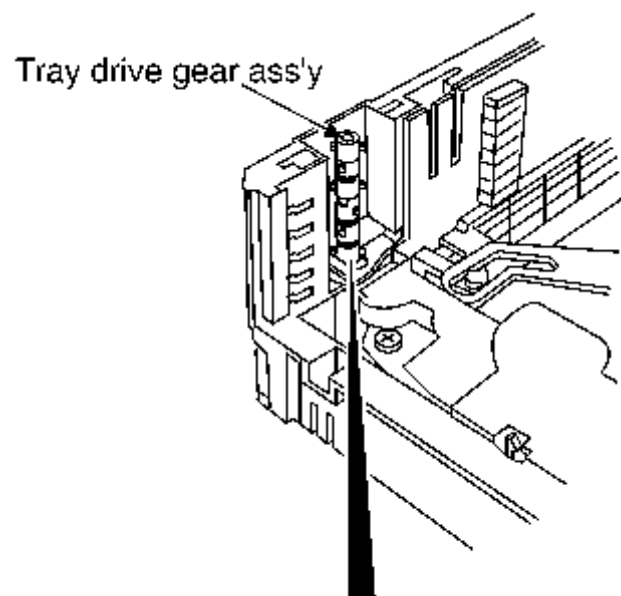
Install the tray drive gear to select guide.

(Install the top rib of the tray drive gear with side ward.)

**NOTE:**

Confirm the each phase surely before install the tray drive gear. (Refer to Step 41).



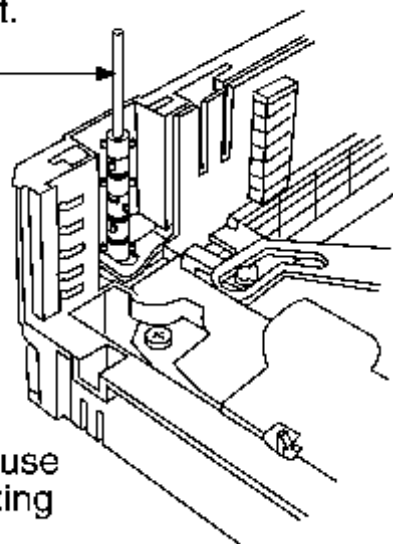




**(Step 44)**

Insert the tray gear shaft.

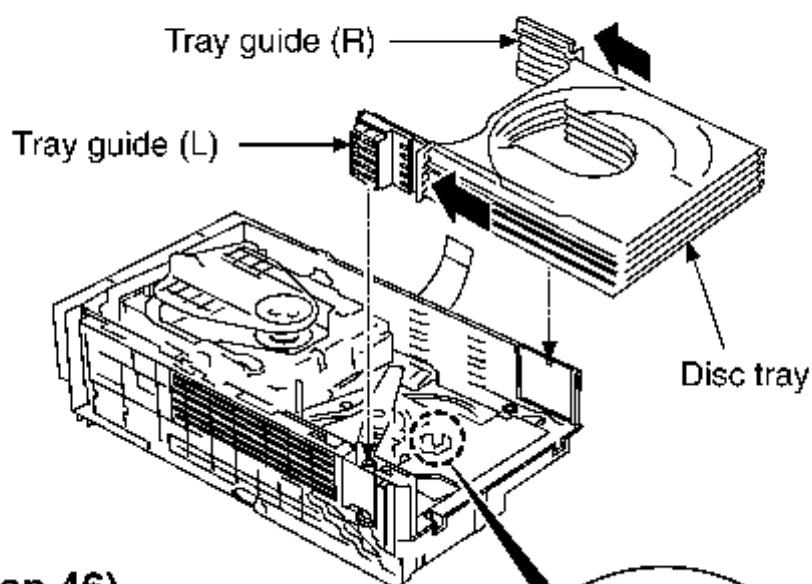
Tray gear shaft

**NOTE:**

Be careful to handle it because the shaft is yet to fix until fixing top cover.

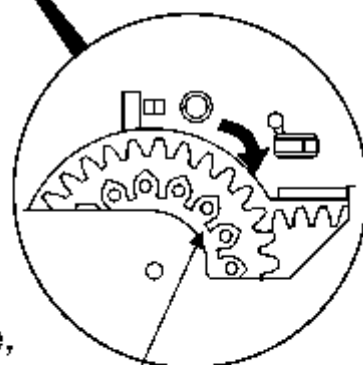
**(Step 45)**

Move the tray guide (R) and (L) to direction of arrow that fixed (stopped) it and install 5 pieces of disc tray.

**(Step 46)**

Confirm that when the disc tray insert the upper side, the speed up gear is rotate clockwise a little.

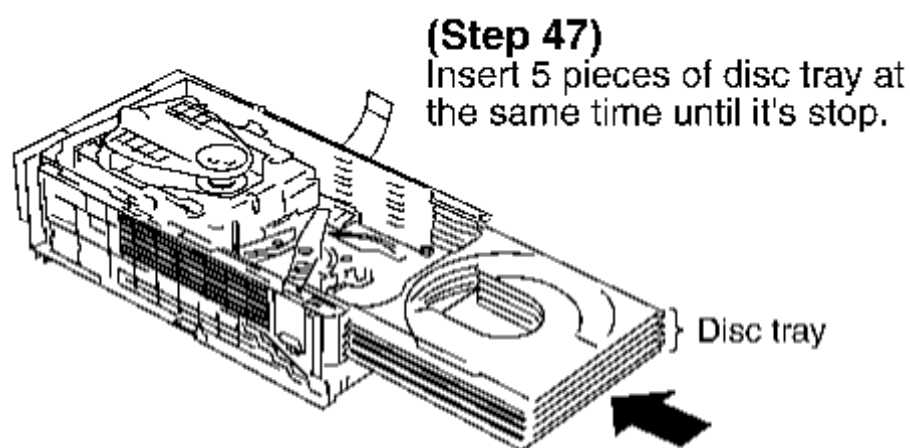
- When the rotation of speed up gear is not clockwise or rotate, repeat from Step 45.
- Until the speed up gear rotate, repeat from Step 45 and 46.



Speed up gear

**NOTE:**

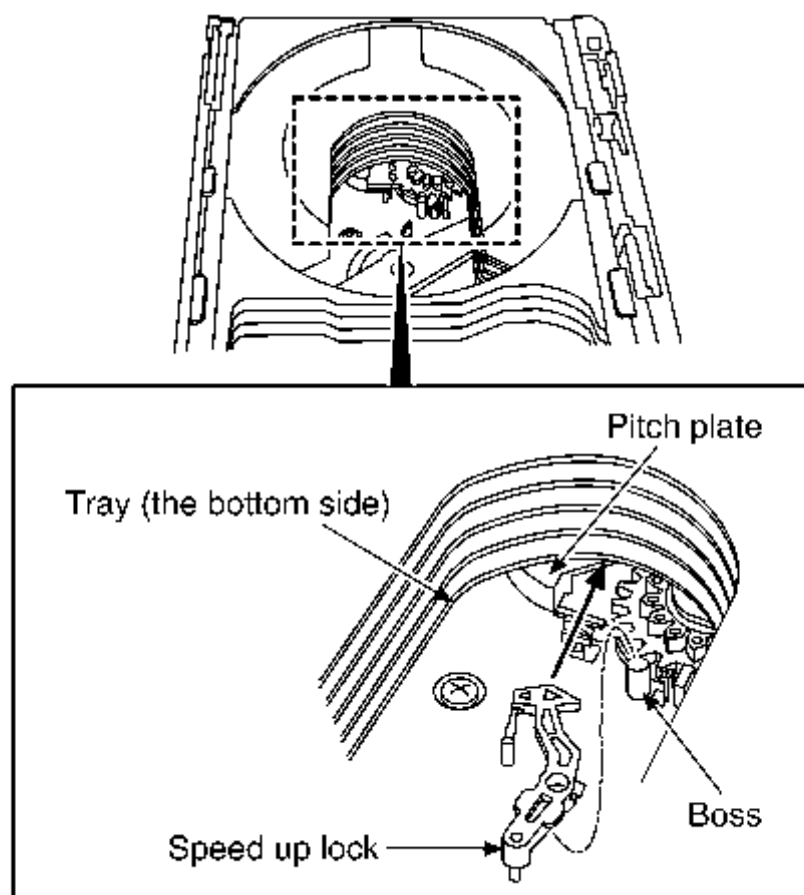
While keeping all position, install 5 pieces of disc tray.



**(Step 48)**  
Turn the traverse side 180°.

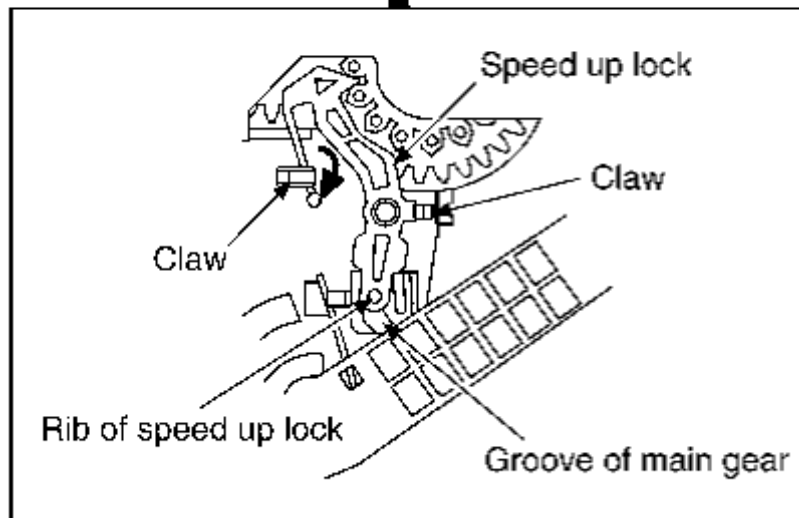
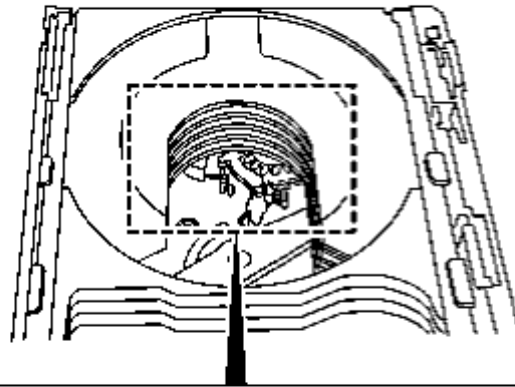
**(Step 49)**  
While install the tip of speed up lock between tray (No.1) of the most lower side and pitch plate for the time being.  
(Do not to insert the cog of speed up gear), insert it to boss.

**NOTE:**  
At that time, do not move the tray.  
(See the tray the most front side)



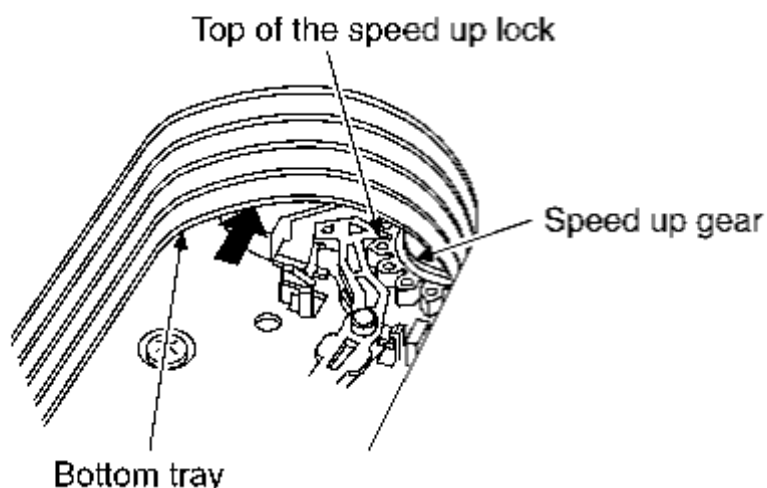
**(Step 50)**

Insert the rib of speed up lock into a groove of main gear, and lock it with 2 claws.



**(Step 51)**

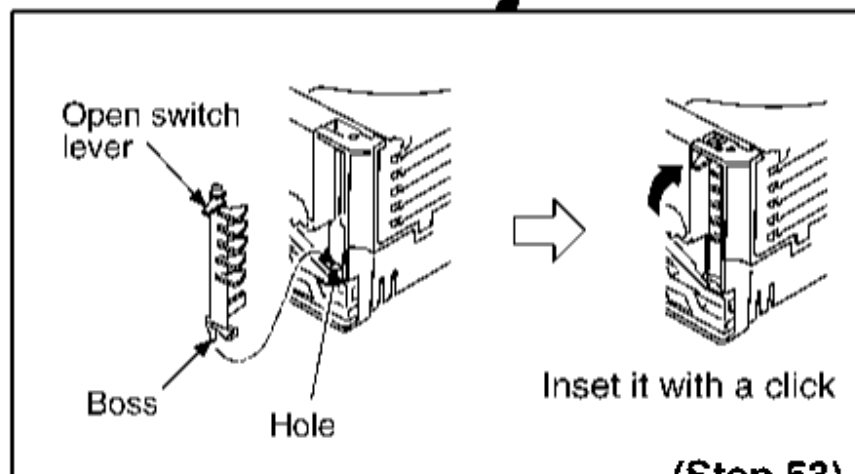
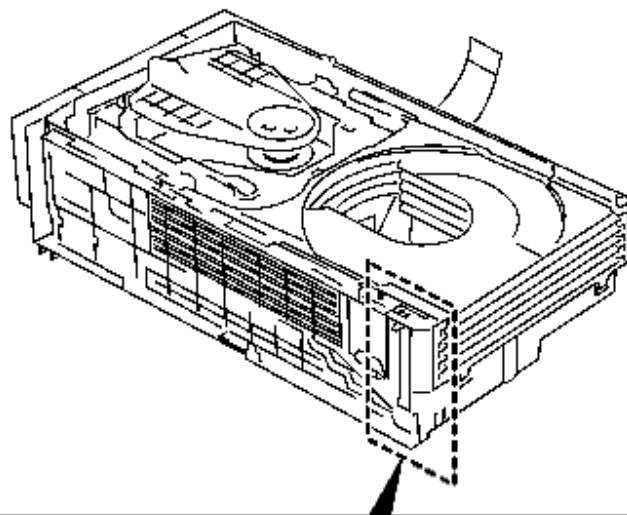
Move the bottom tray to the arrow while pushing the top of the speed up gear. And insert it to a cog of the speed up gear.



**(Step 52)**

Install the open switch lever.

(Put the boss into the hole of the mechanism base.)



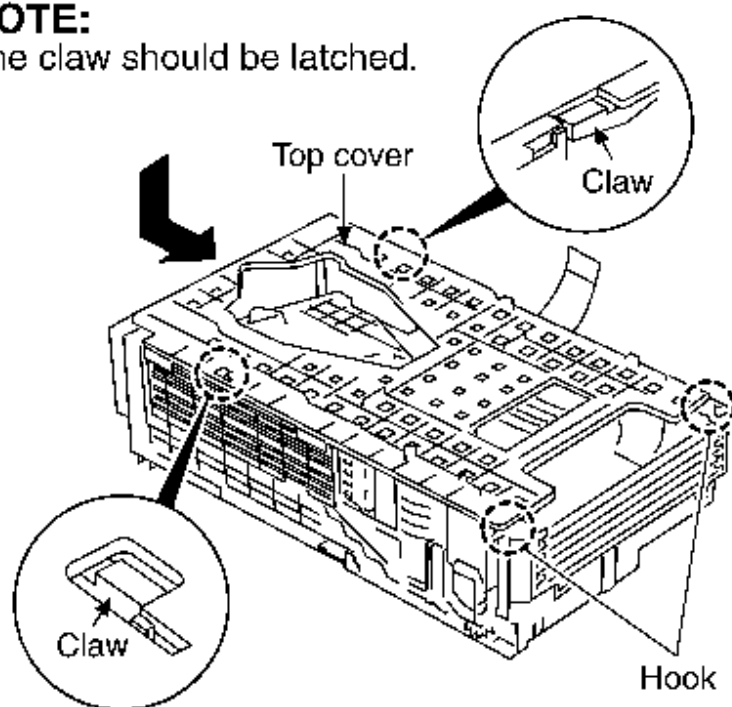
**(Step 53)**

Install the top cover.

Fix it into hooks and slide direction to the arrow.

**NOTE:**

The claw should be latched.



## 17.11 Disassembly for Traverse Unit

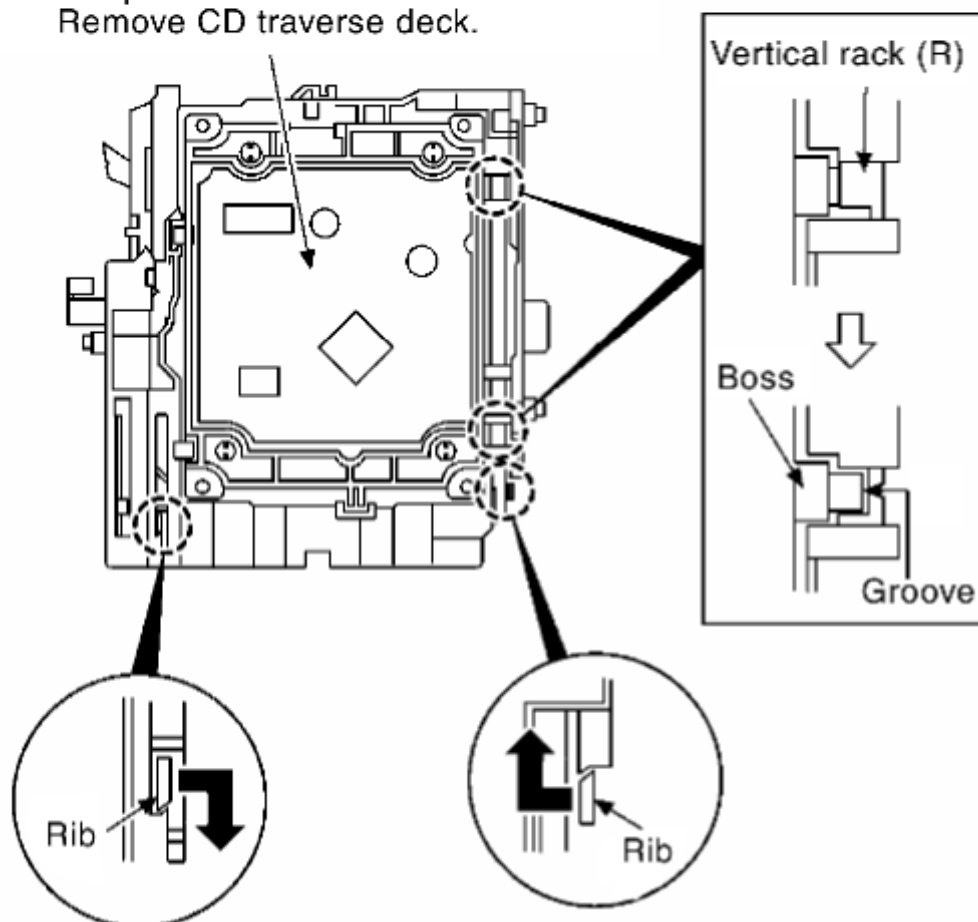
- Follow the (Step 1) - (Step 10) of item 17.9
- Follow the (Step 1) - (Step 3) of item 17.10

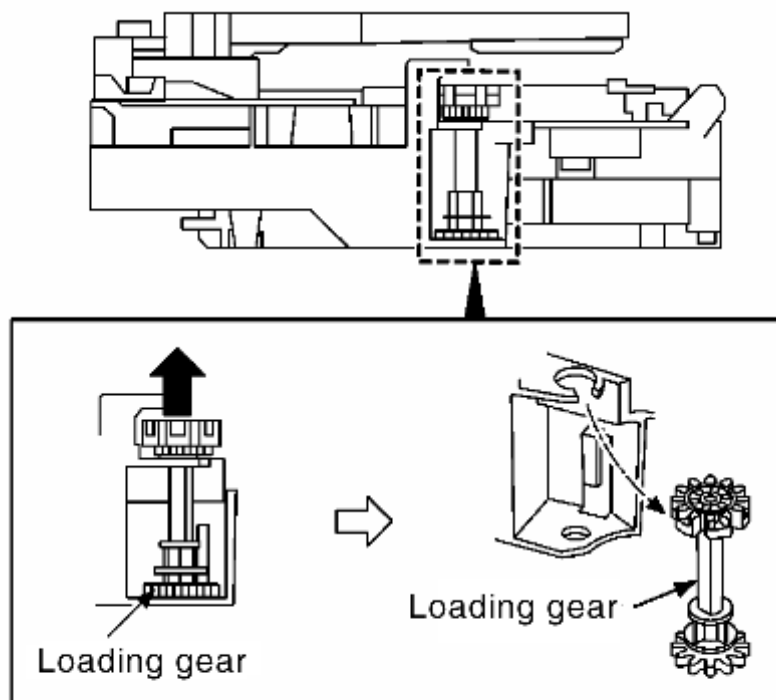
### Step 1

Shift ribs of both side to the arrow direction.  
(A vertical rack (R) slides and groove opens)

### Step 2

Remove CD traverse deck.





### Step 3

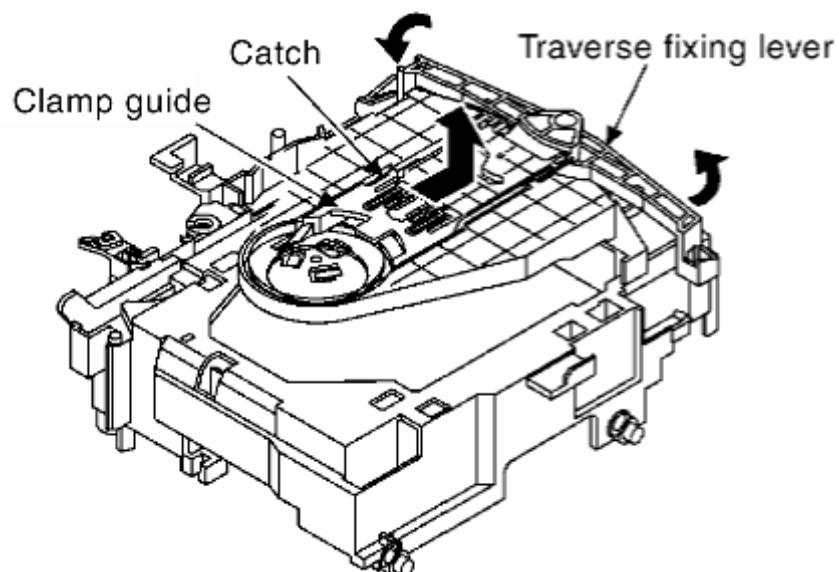
Lift a loading gear slightly and pull out.

### Step 4

Fixing lever to the arrow direction, rotate a traverse.

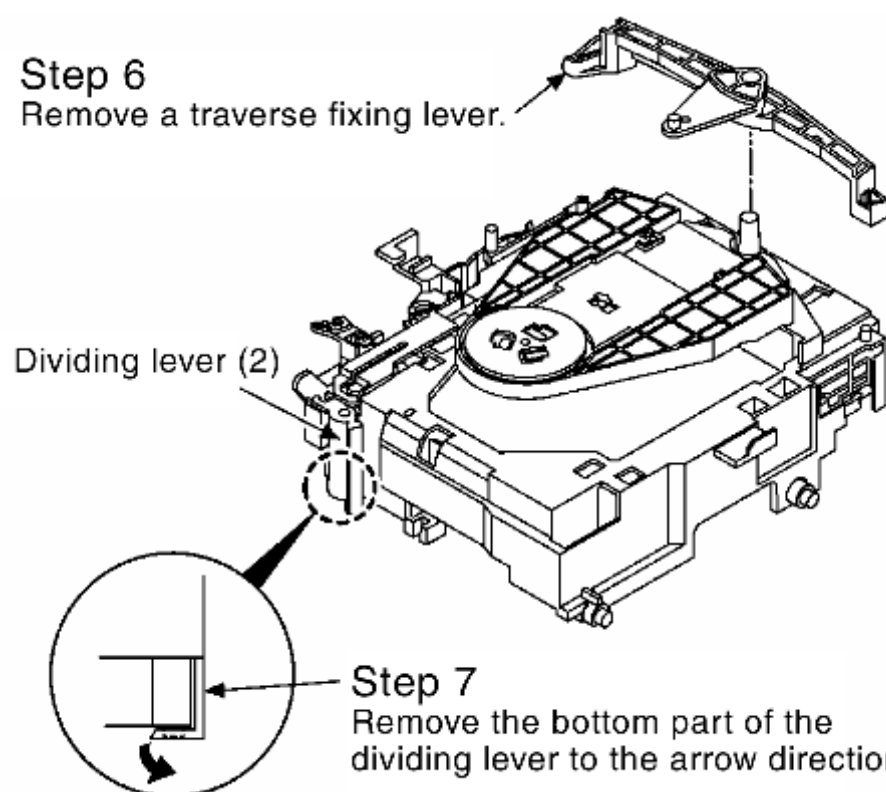
### Step 5

Remove catch and take out a clamp guide.



### Step 6

Remove a traverse fixing lever.

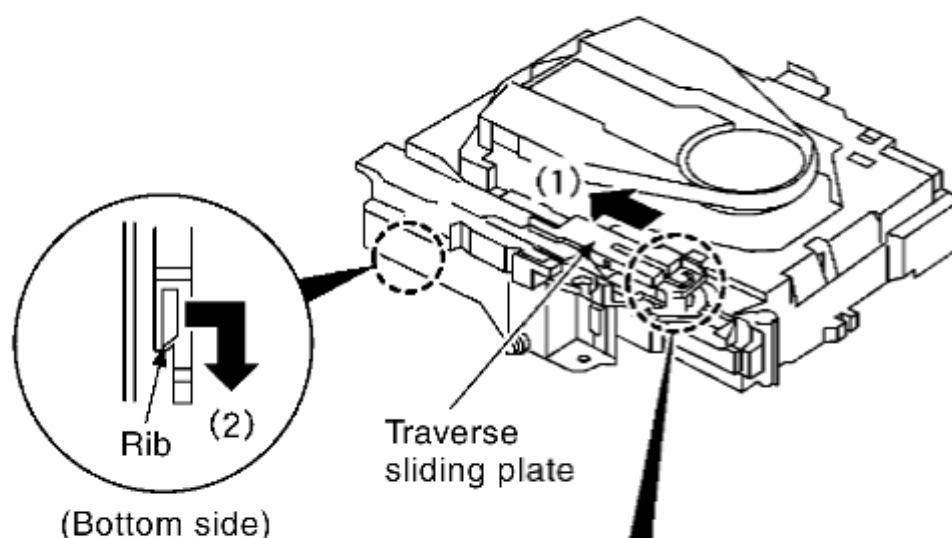


### Step 7

Remove the bottom part of the dividing lever to the arrow direction.

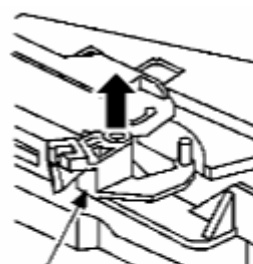
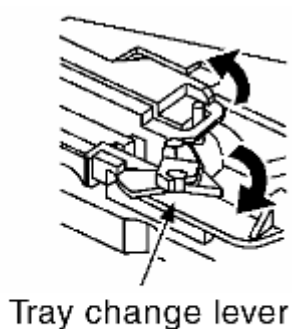
### Step 8

Slide a traverse sliding plate to the arrow direction (1), and shift a rib to the arrow direction (2).



### Step 9

Shifting a traverse sliding plate slightly and rotate a tray change lever.



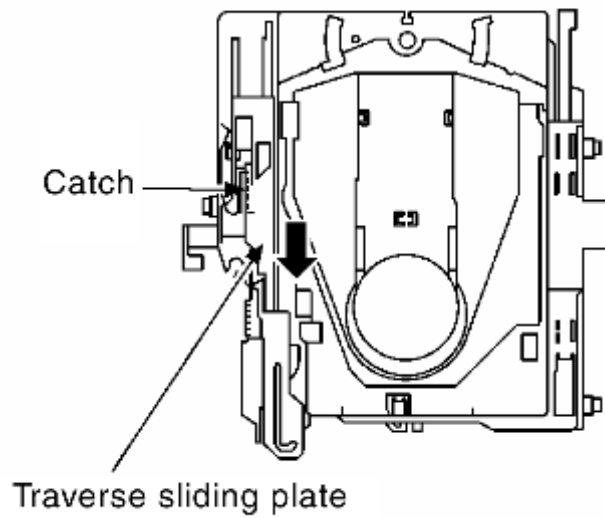
### Step 10

Remove a tray change lever.



### Step 11

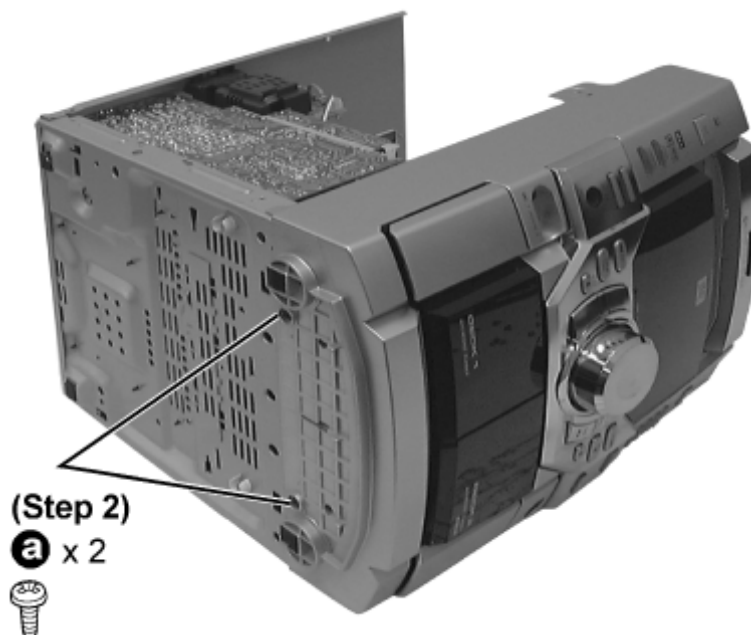
Holding the catch down, slide a traverse sliding plate to the arrow direction and remove it.



## 17.12 Disassembly of Deck Mechanism Unit

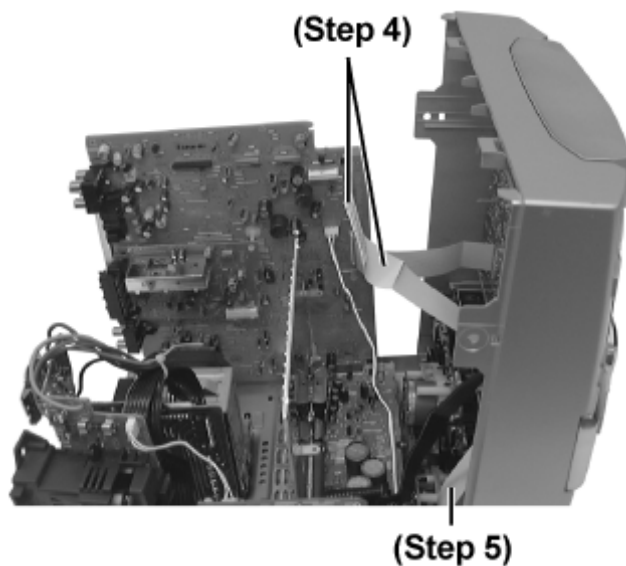
- Follow the (Step 1) - (Step 2) of Item 18.2.
- Follow the (Step 1) - (Step 4) of Item 18.3.
- Follow the (Step 1) - (Step 3) of Item 18.3.1.

Step 1 Remove the connector.



Step 2 Remove 2 screws.

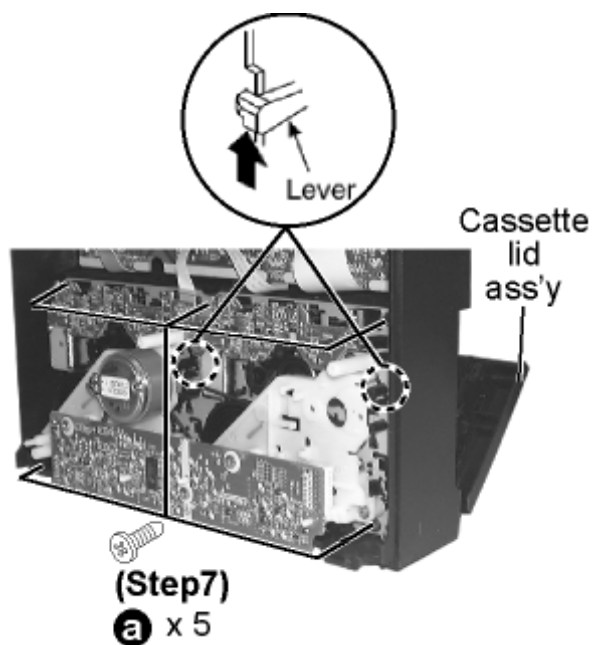
Step 3 Remove the 2 claws, and then draw the front panel ass'y.



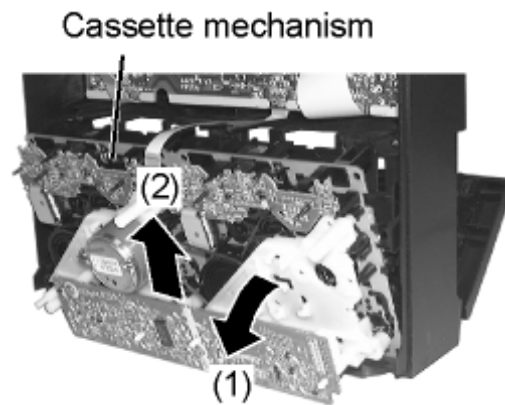
Step 4 Detach FFC Board (CN601 & CN602).

Step 5 Detach flat cable wire (CN1001).

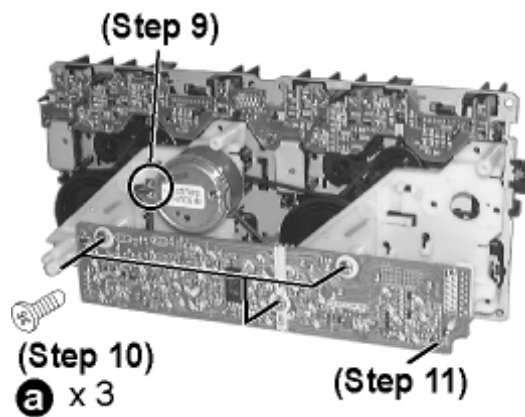
Step 6 Push the lever upward, and then open the cassette lid ass'y (For DECK1 and DECK2).



Step 7 Remove the 5 screw.



Step 8 Tilt the cassette mechanism in the direction of arrow (1), and then remove it in the direction of arrow (2).



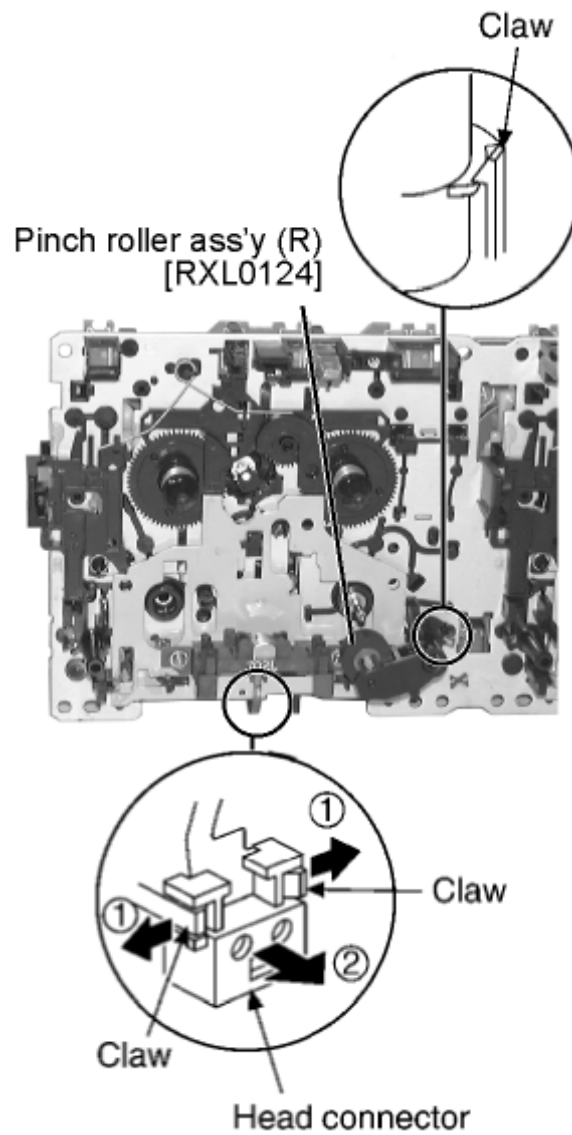
- Disassembly of Deck P.C.B.

Step 9 Unsolder the motor terminals.

Step 10 Remove 4 screws.

Step 11 Remove Deck P.C.B.

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

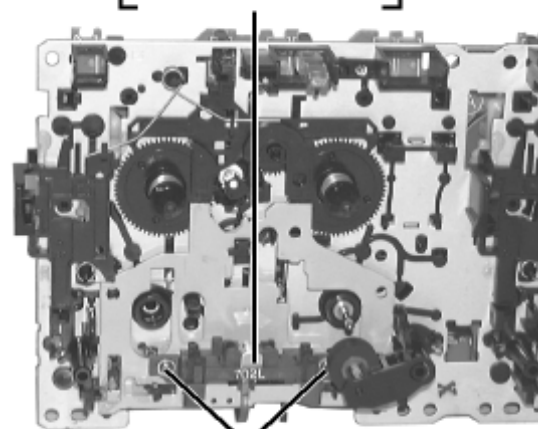


- Disassembly of pinch roller ass'y & head block

Step 12 Release the 2 claws, and then remove the pinch roller (R), (F).

Step 13 Release the 2 claws, and then remove the head connector.

[Head Block  
DECK1:RED0071  
DECK2:RED0072]



Step 14 Remove 2 screws.

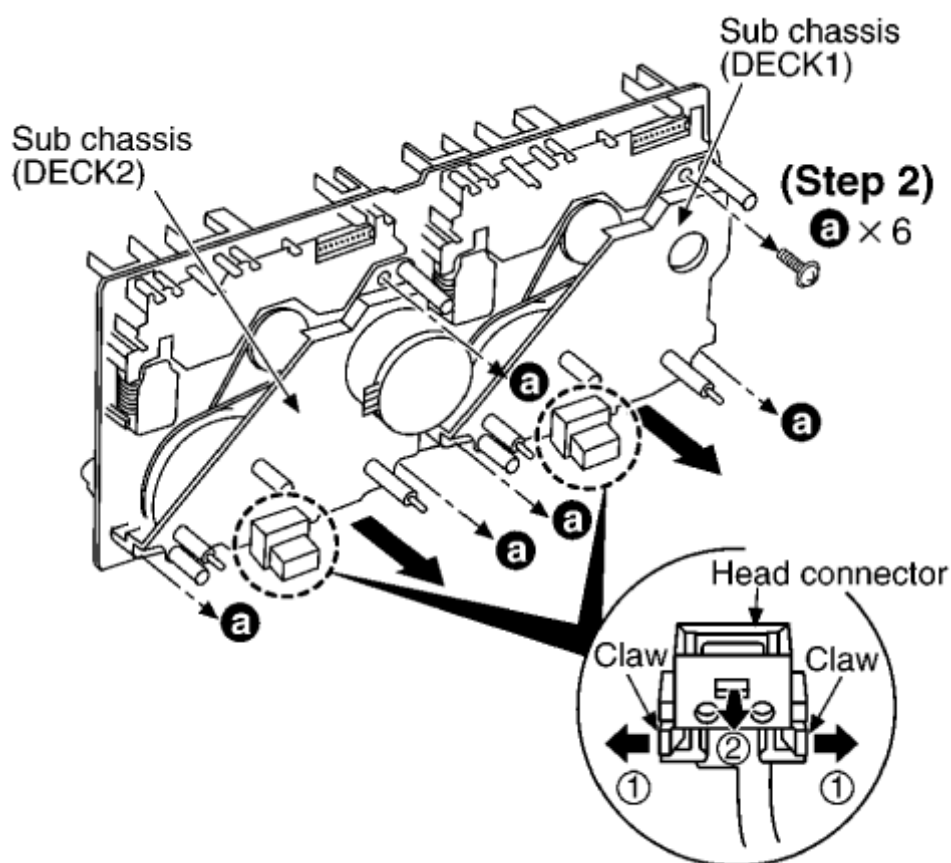
17.12.1 Replacement for the CD motor ass'y, capstan belt A, capstan belt B and winding belt **a** x 2  
(Step 14)

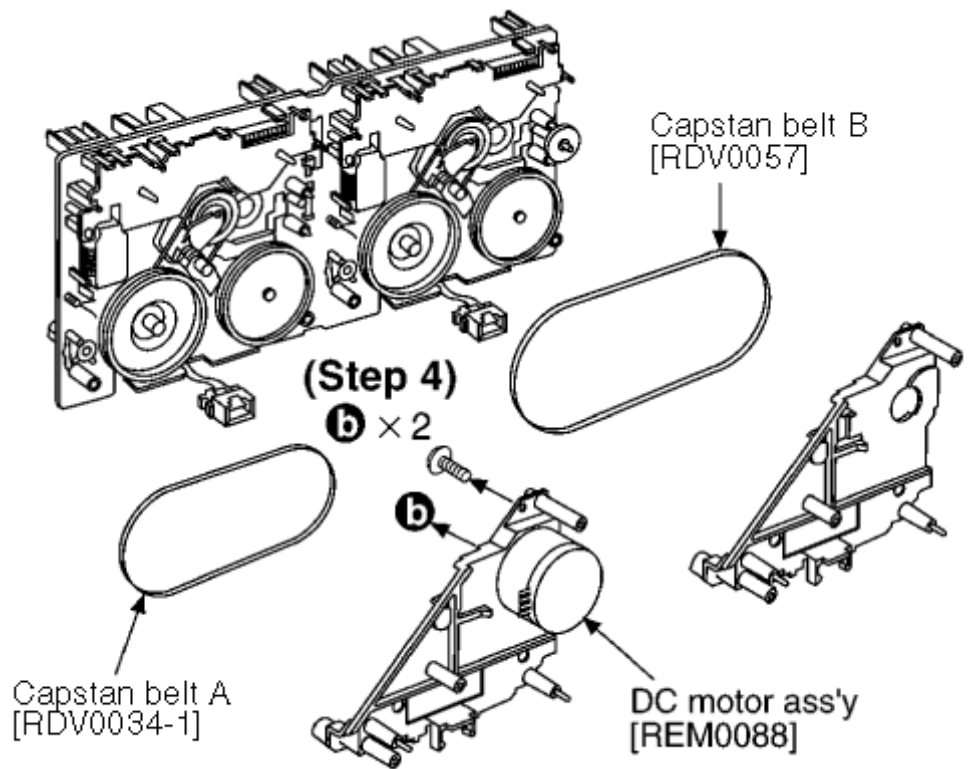
## 17.12.1 Replacement for the CD motor ass'y, capstan belt A, capstan belt B and winding belt

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

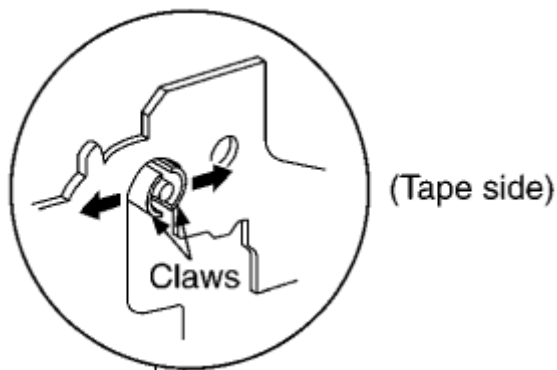
Step 2 Remove 6 screws.

Step 3 Remove the sub chassis.





Step 4 Remove 2 screws●

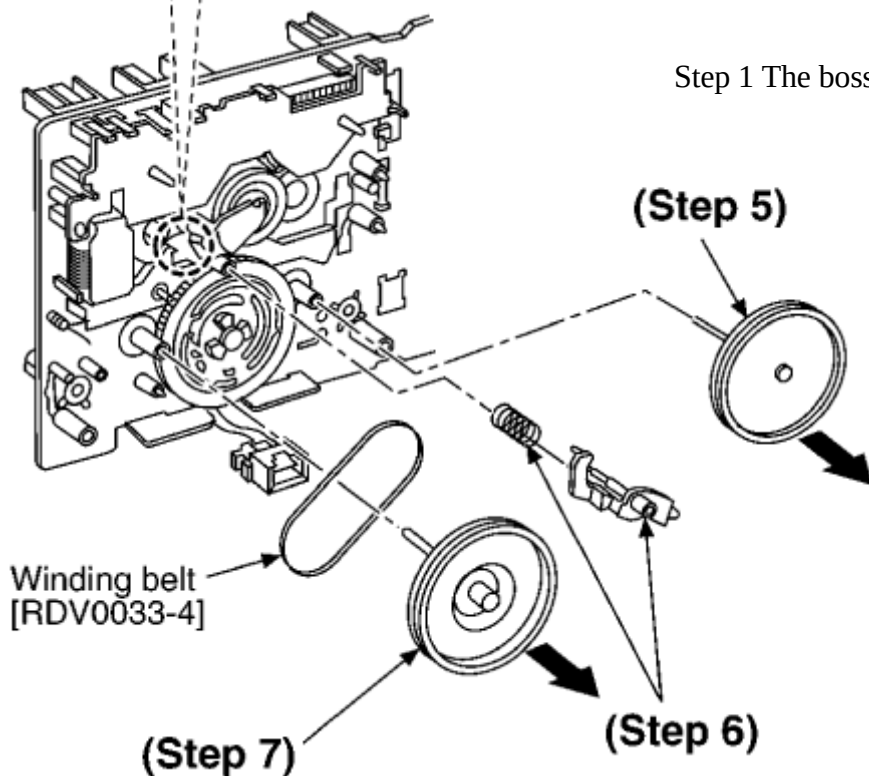


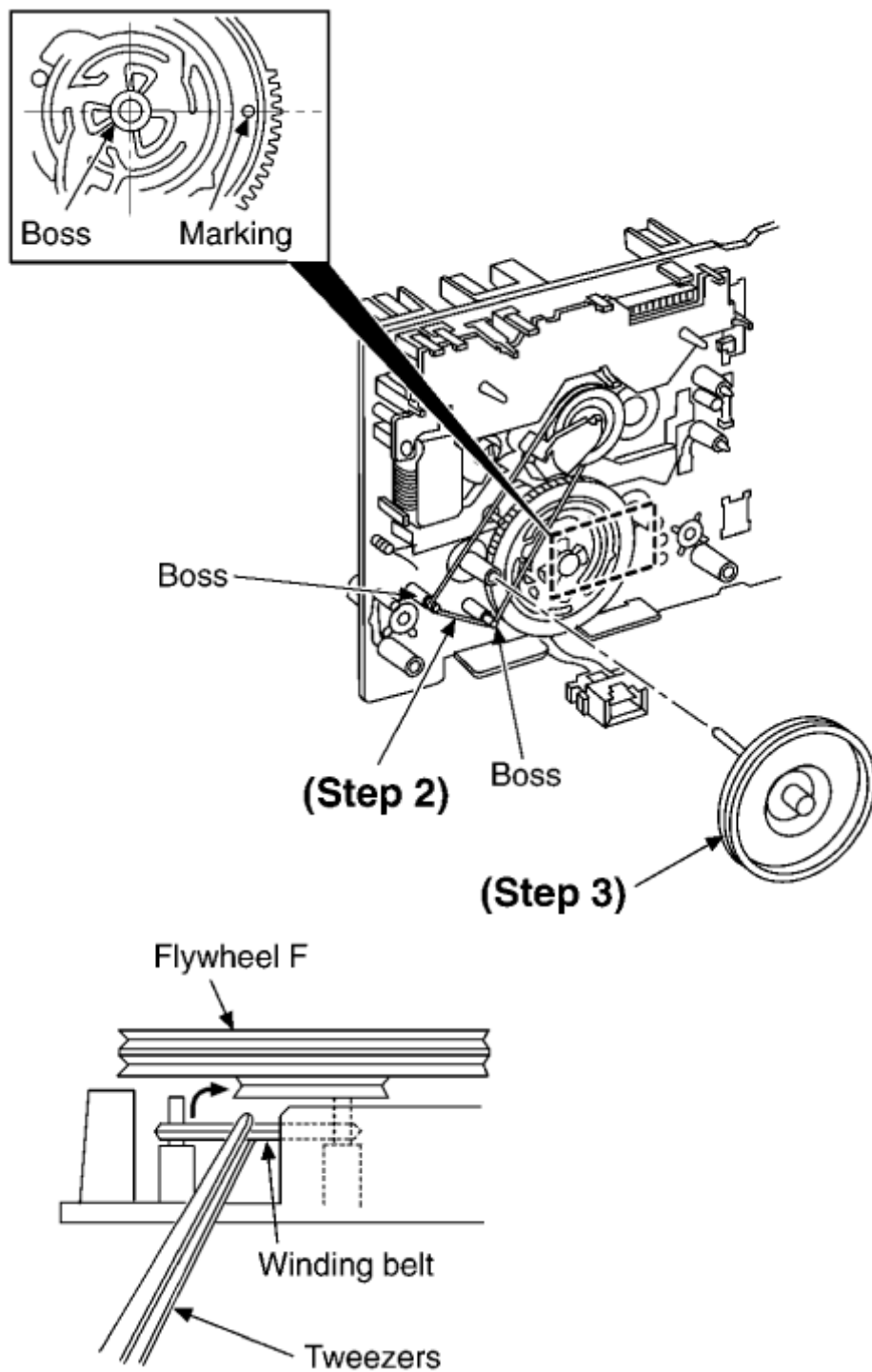
Step 5 Remove the flywheel R.

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.



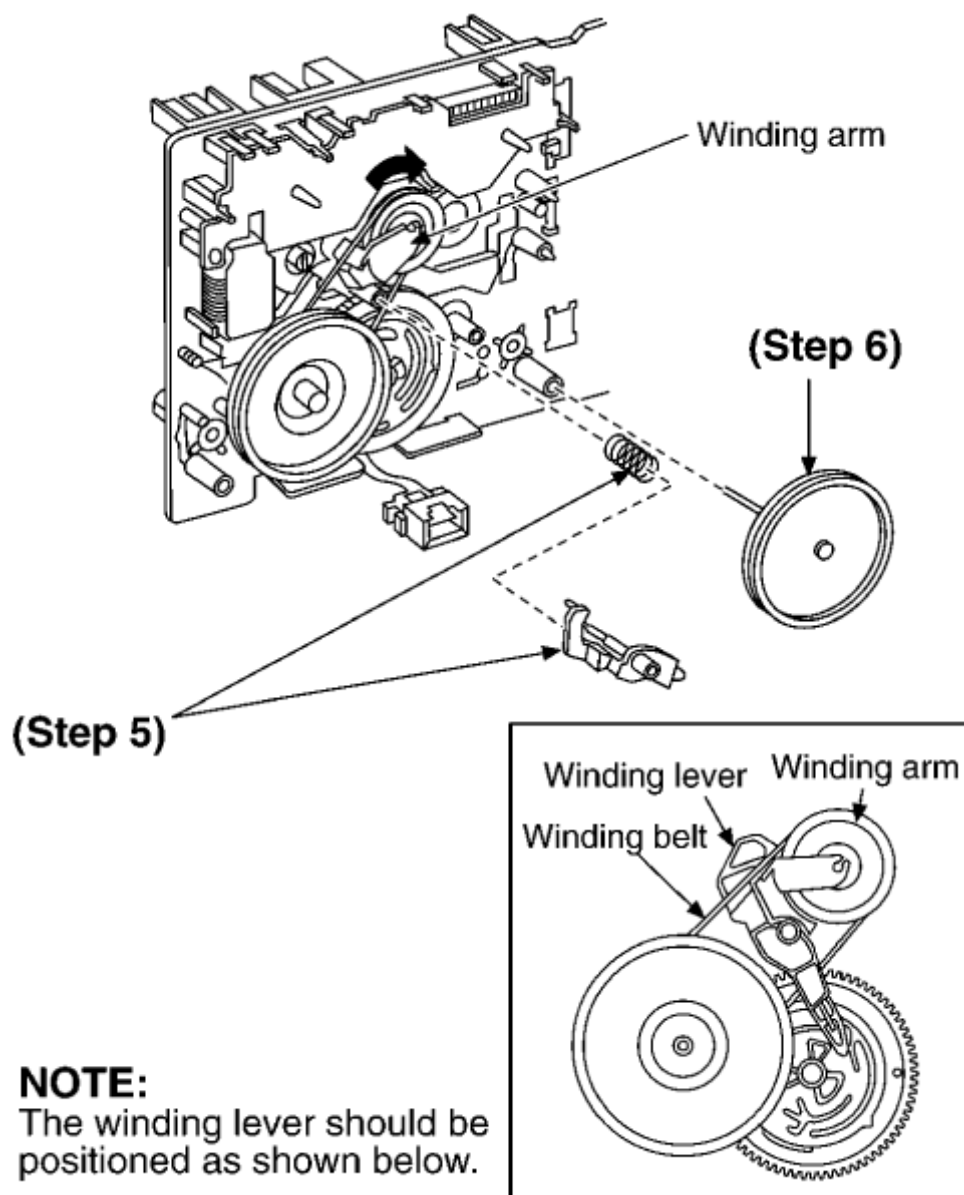


Step 2 Put the winding belt on the pulley temporarily.

Step 3 Install the flywheel F.

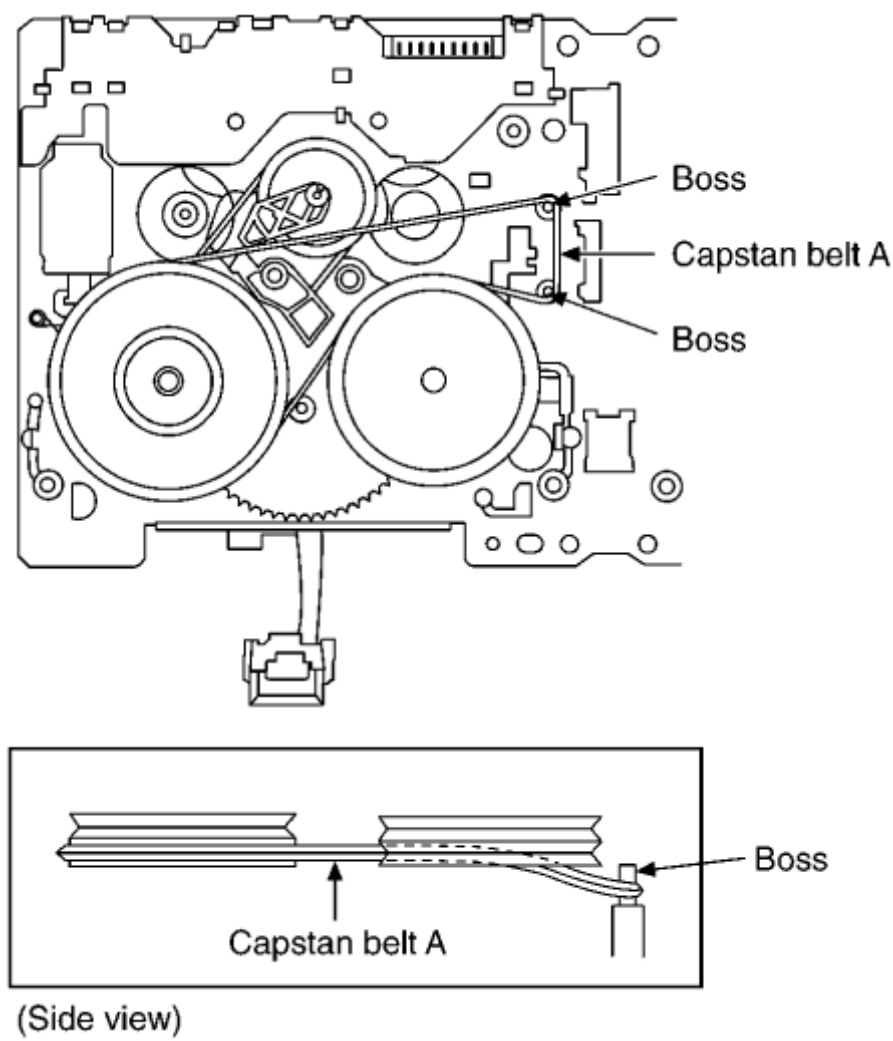
Step 4 Put the winding belt on the flywheel F.

Step 5 Install the winding lever and spring while pressing the winding arm in the direction of arrow.  
Step 6 Install the flywheel R.



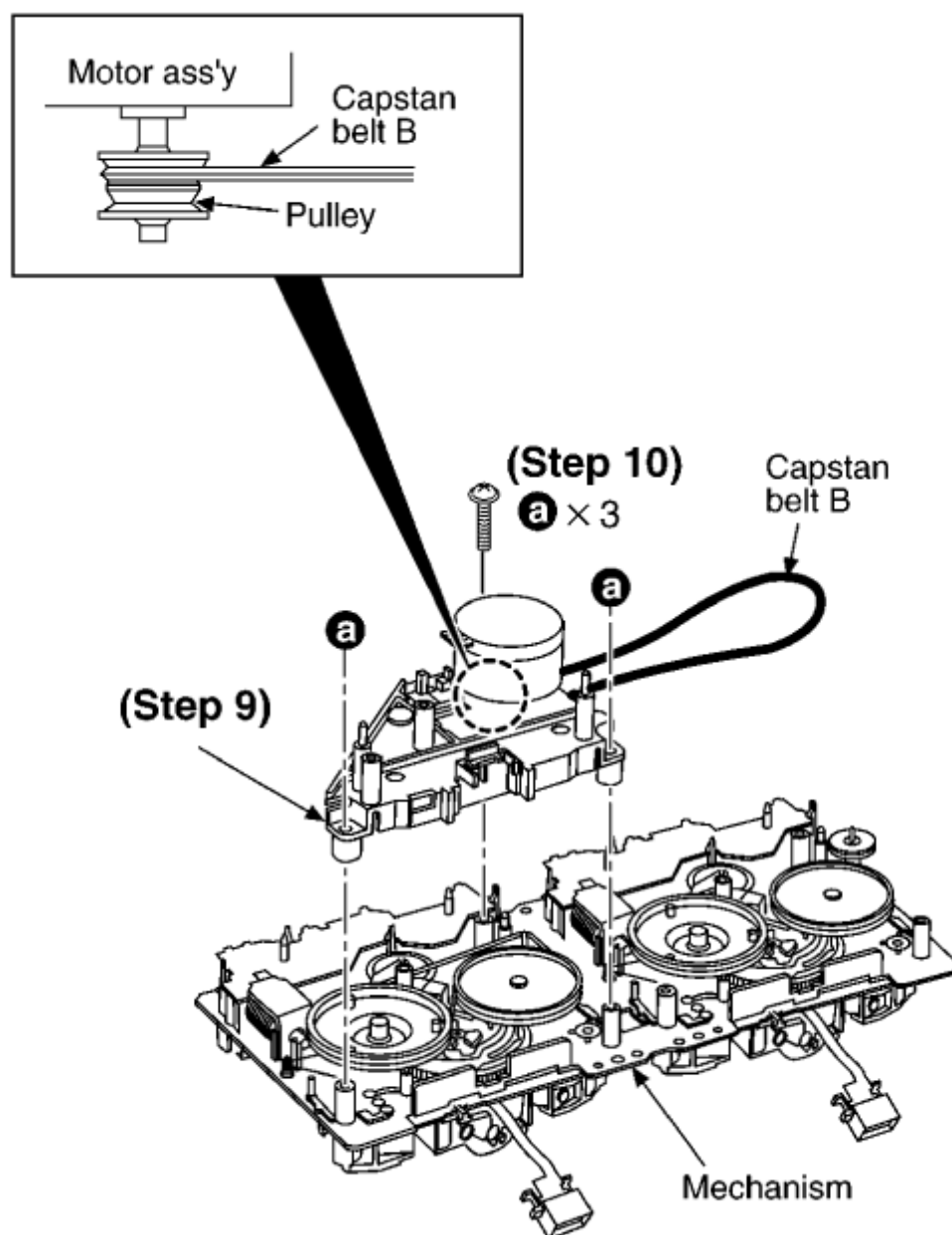


Step 7 Put the capstan belt A temporarily as shown below.



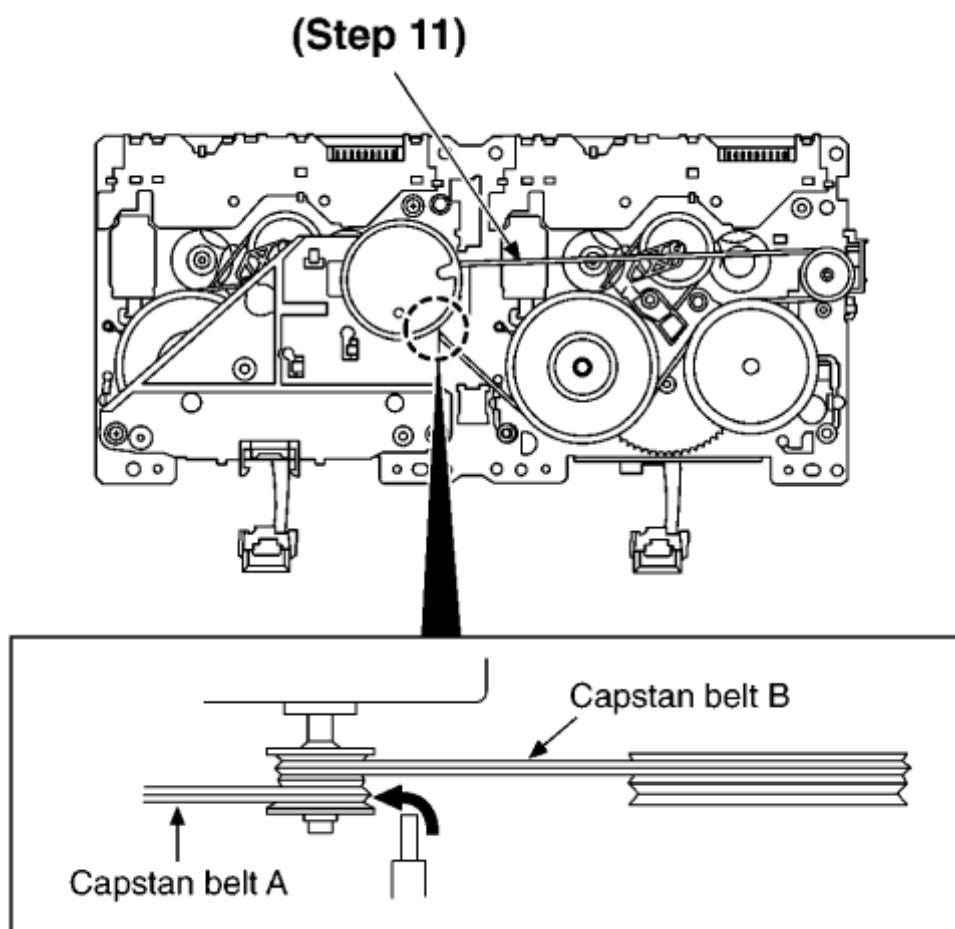
Step 8 Put the capstan belt B on the motor ass'y pulley.

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



Step 10 Remove 3 screws.

Step 11 Put the capstan belt B as shown below.



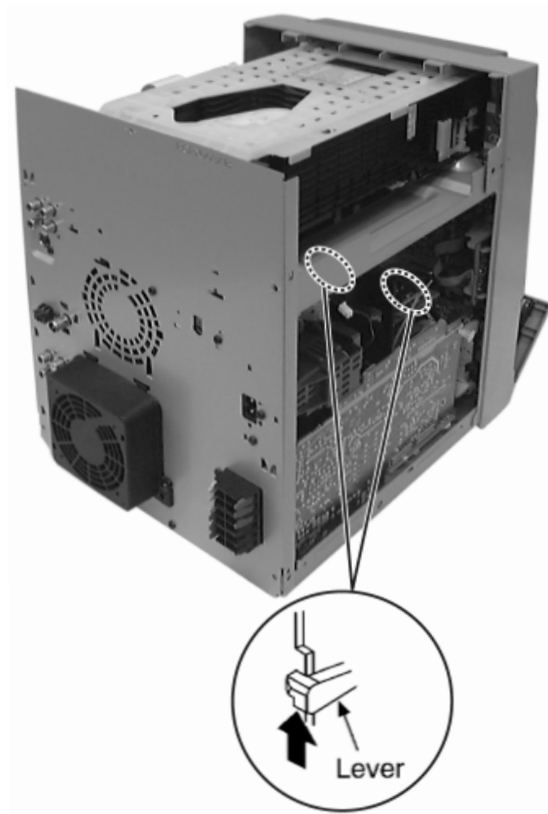
Step 12 Put the capstan belt A on the motor ass'y pulley.

Step 12 Put the capstan belt A on the motor ass'y pulley.

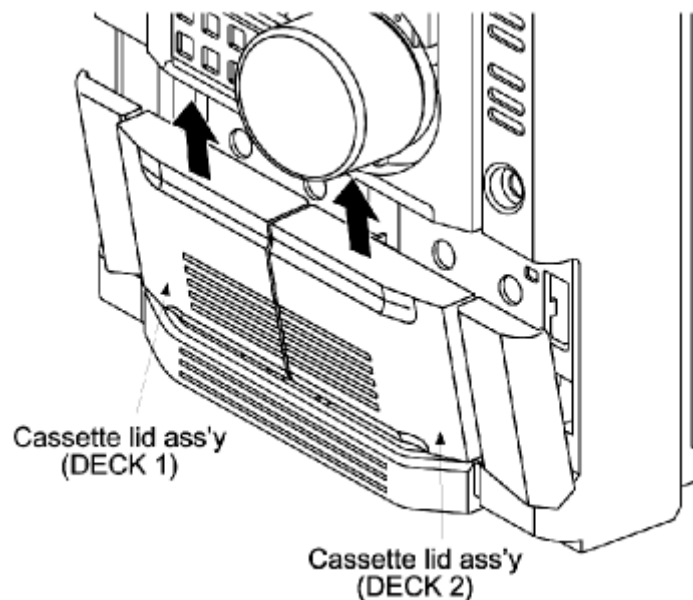
## 17.13 Replacement for the cassette lid ass'y

- Follow the (Step 1) - (Step 2) of Item 17.2.

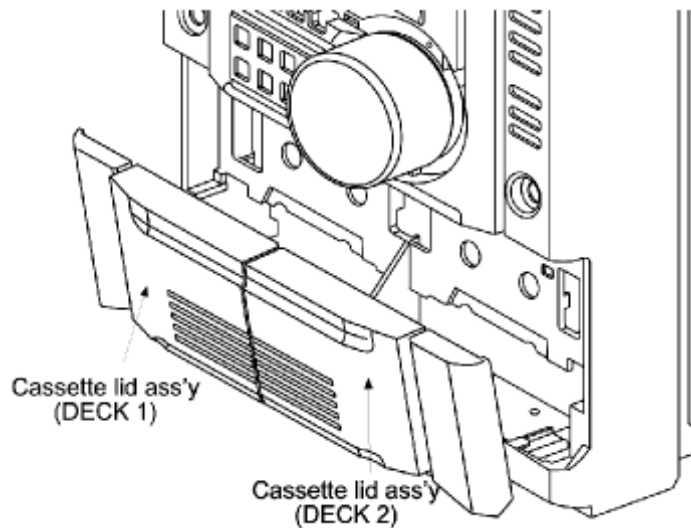
Step 1 Force the lever upward, open the cassette lid ass'y. (For DECK1 and DECK2)



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



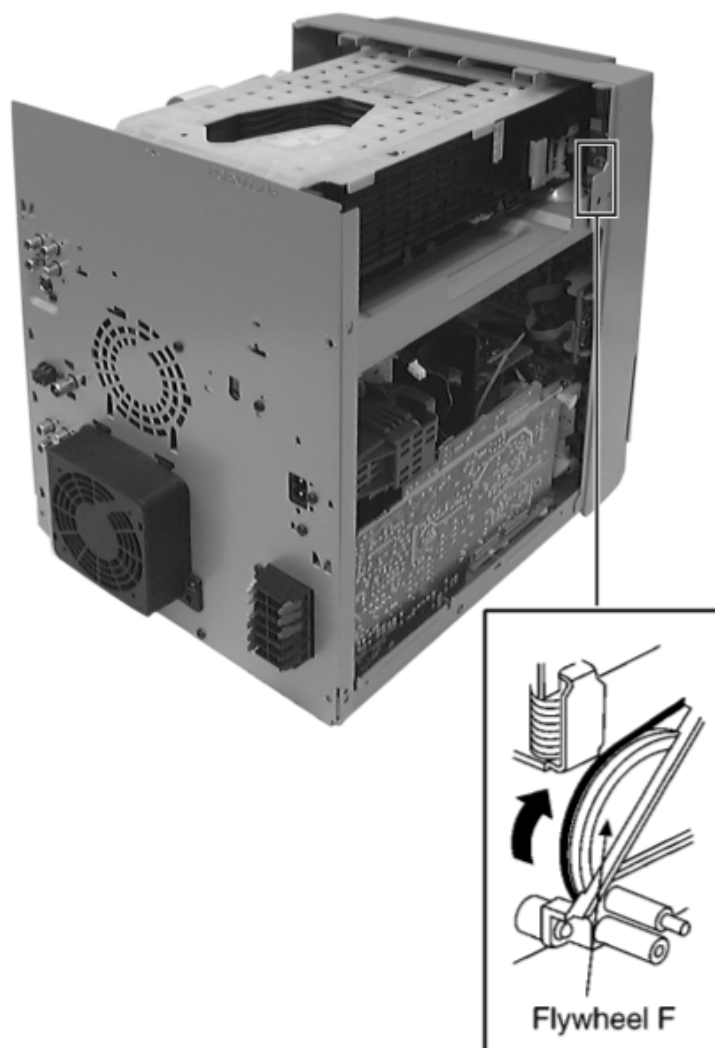
Step 3 Remove the cassette lid ass'y. (For DECK1 and DECK2).



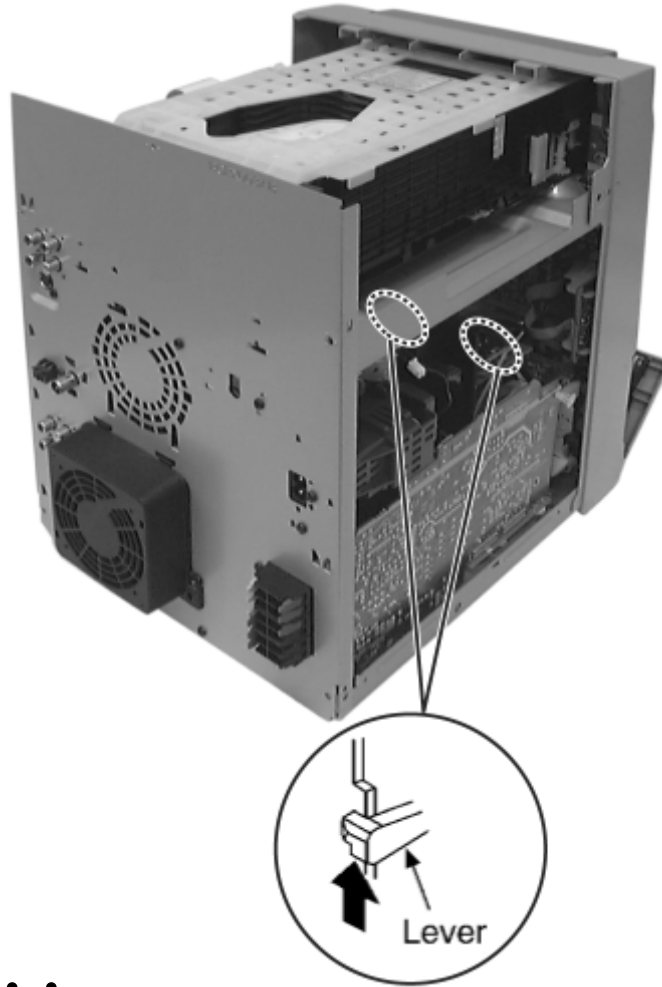
## 17.14 Counter-measure for tape trouble

- Follow the (Step 1) - (Step 2) of Item 17.2.

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 Force the lever upward and open the cassette lid ass'y. Take the cassette tape off.



## 18 Service Position

18.1 Checking Procedure

18.2 Checking the Main P.C.B., Power P.C.B., Power Supply P.C.B., Power Amp P.C.B., Transformer P.C.B., Voltage Selector P.C.B. and AC Inlet P.C.B.

18.3 Checking the Panel P.C.B., Tact Switch P.C.B., Mic P.C.B., Deck P.C.B. & Deck Mechanism P.C.B.

### 18.1 Checking Procedure

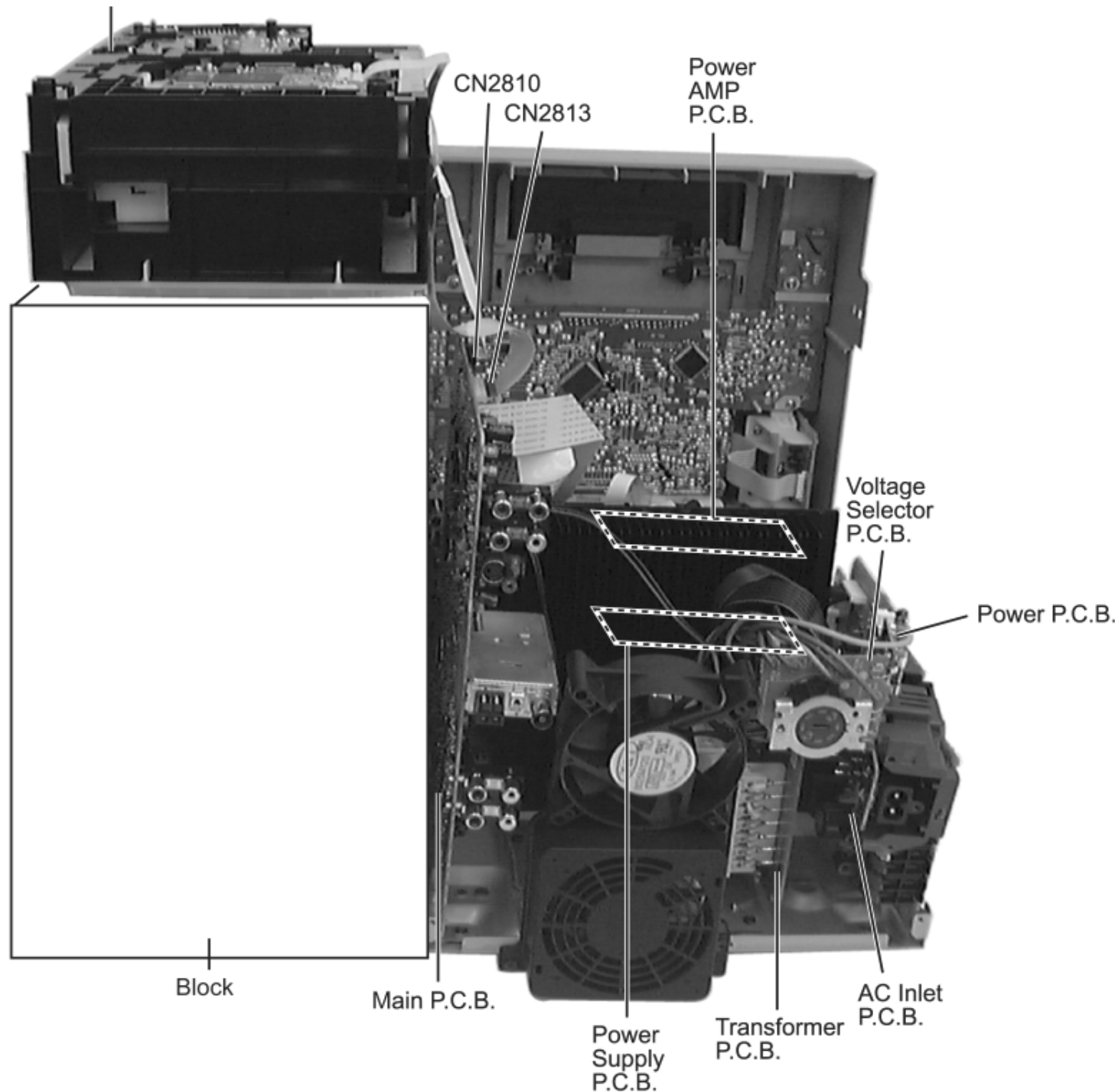
Note:

For the disassembling procedure, see Section 17.

### 18.2 Checking the Main P.C.B., Power P.C.B., Power Supply P.C.B., Power Amp P.C.B., Transformer P.C.B., Voltage Selector P.C.B. and AC Inlet P.C.B.

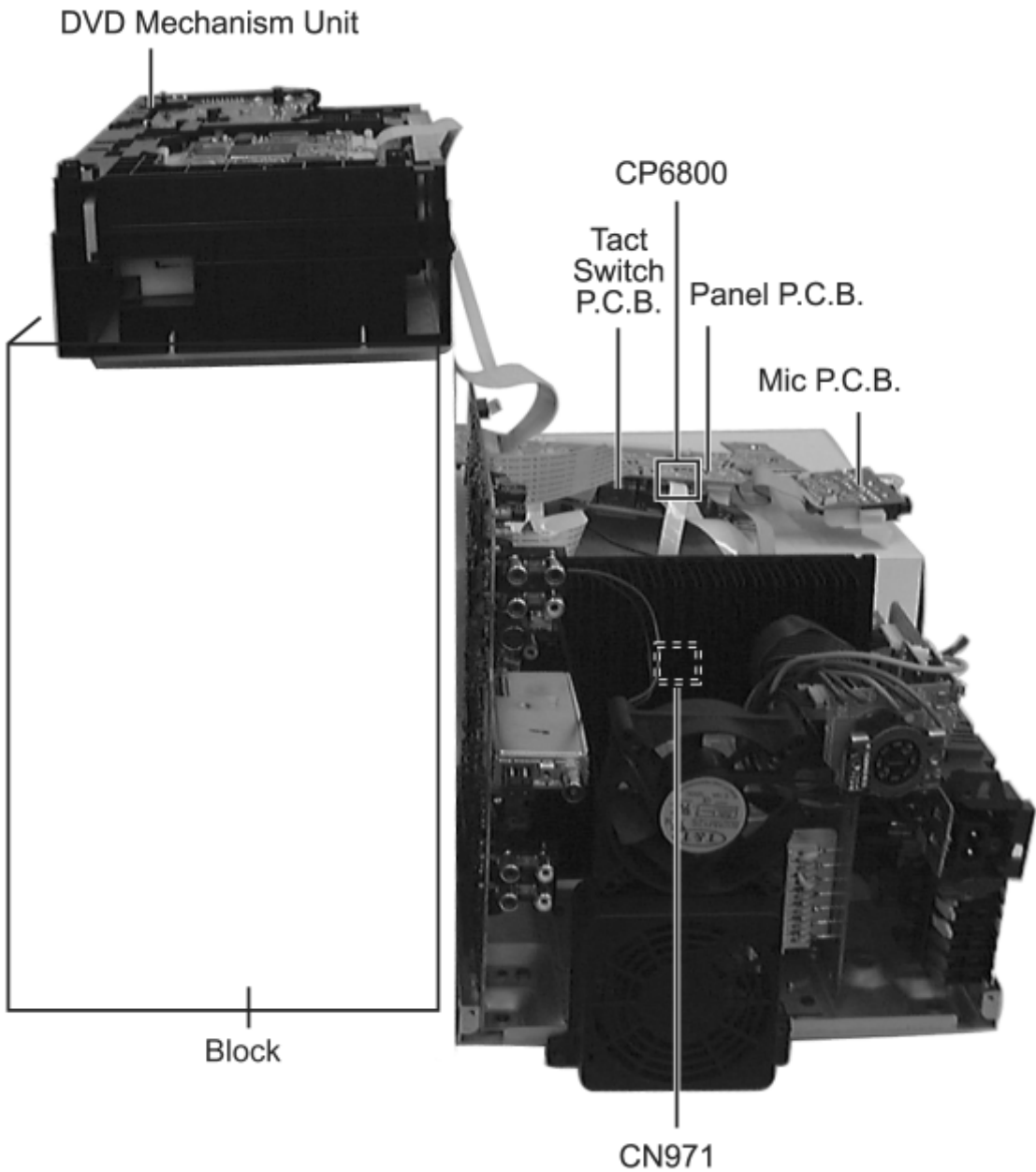
1. Remove Top Cabinet and Rear Panel.
2. Remove DVD Mechanism Unit.
3. Connect FFC board (CN2810 & CN2813) from DVD Mechanism Unit.

DVD Mechanism Unit



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

- 1. Remove Top Cabinet and Rear Panel.
- 2. Remove DVD Mechanism Unit.
- 3. Remove volume knob at front panel.
- 4. Remove Panel P.C.B., Mic P.C.B. & Tact Switch P.C.B.
- 5. Remove Deck Mechanism P.C.B.
- 6. Use the extension cable (REEX0310 - 10 Pins) to reconnect (CP6800) Panel P.C.B. and (CN971) Deck Mechanism P.C.B.



| Service Tools                                         |                       |
|-------------------------------------------------------|-----------------------|
| Extension FFC<br>Panel P.C.B. - Deck Mechanism P.C.B. | REEX0310<br>(10 Pins) |



# 19 Measurements and Adjustments

## 19.1 Cassette Deck Section

### 19.1.1 Head Azimuth Adjustment (Deck 1 / 2)

### 19.1.2 Tape Speed Adjustment (Deck 1 / 2)

### 19.1.3 Bias and Erase Voltage Check

### 19.1.4 Bias Frequency Adjustment (Deck 1 / 2)

## 19.2 Tuner Section

### 19.2.1 AM-IF Alignment

### 19.2.2 AM RF Adjustment

## 19.3 Alignment Points

### 19.3.1 Cassette Deck Section

### 19.3.2 Adjustment Point

## 19.1 Cassette Deck Section

- Measurement Condition

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

- Measuring instrument

- EVM (DC Electronic volmeter)
- Digital frequency counter

- Test Tape

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

### 19.1.1 Head Azimuth Adjustment (Deck 1 / 2)

### 19.1.2 Tape Speed Adjustment (Deck 1 / 2)

### 19.1.3 Bias and Erase Voltage Check

### 19.1.4 Bias Frequency Adjustment (Deck 1 / 2)

## 19.1.1 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.

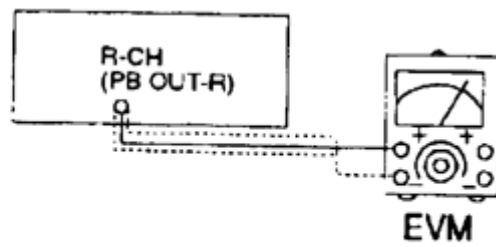


Fig. 1

-  Screw
-  Spings

Fig.2

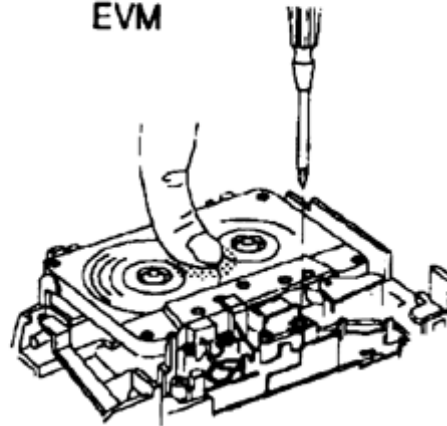


Fig. 3

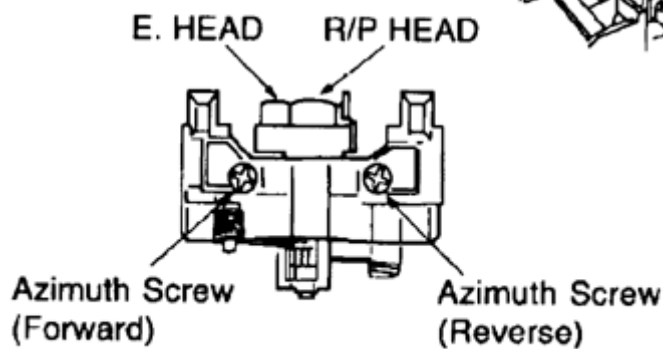


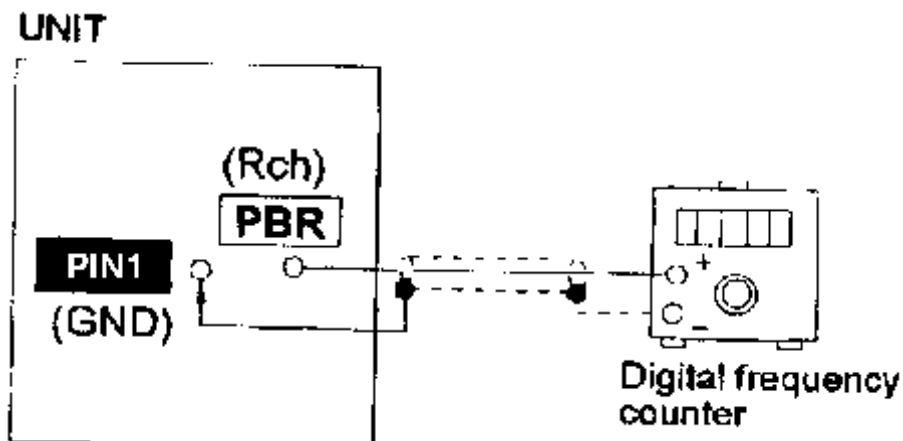
Fig. 4

## 19.1.2 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.



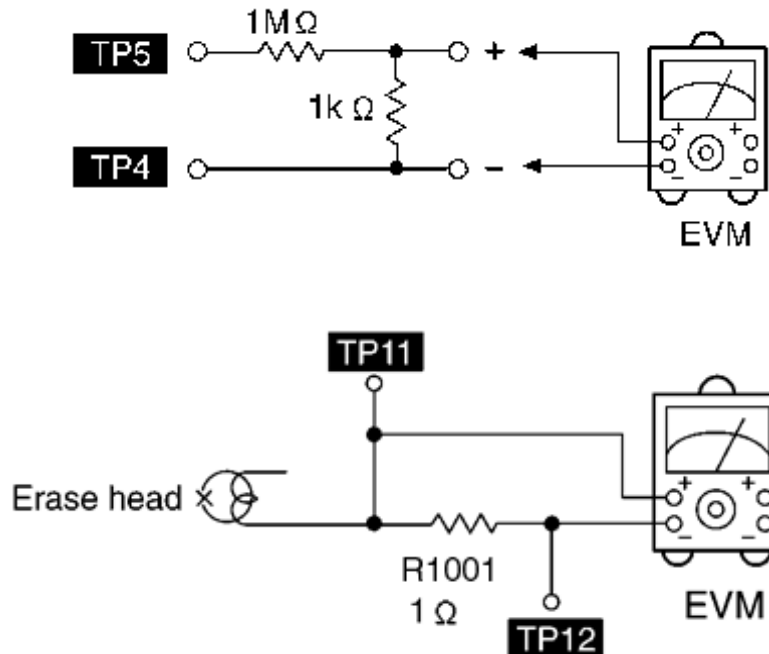
## 19.1.3 Bias and Erase Voltage Check

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

Bias voltage for Deck 2  $14 \pm 4\text{mV}$  (Normal)

Erase voltage for Deck 2  $80\text{mV}$  (Normal)

Fig. 2

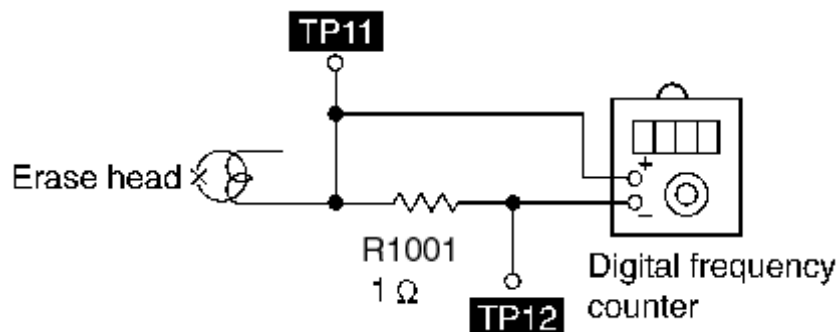


## 19.1.4 Bias Frequency Adjustment (Deck 1/2)

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

Standard Value:  $97 \pm 8\text{ kHz}$

Fig. 4

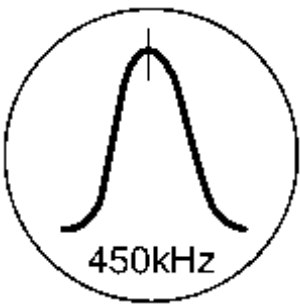
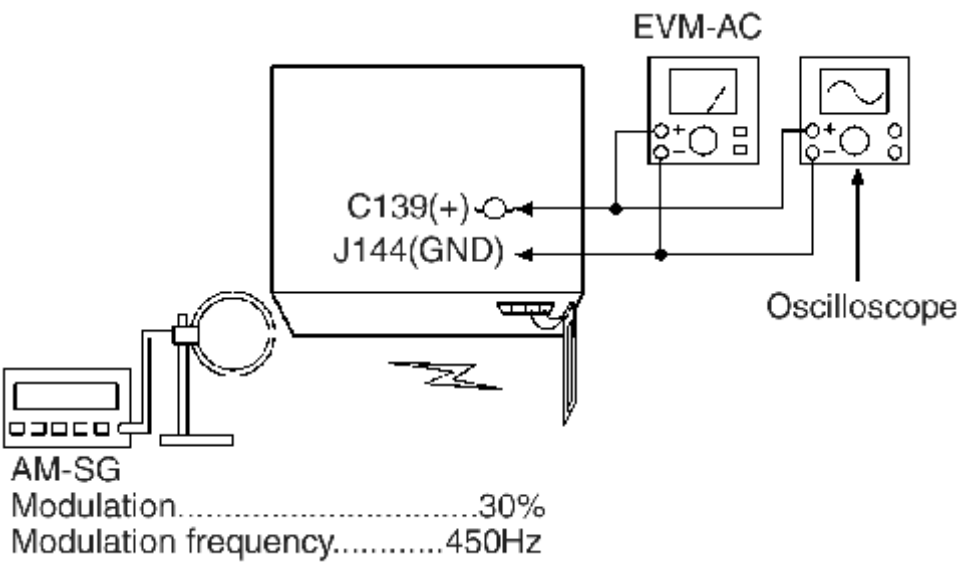


# 19.2 Tuner Section

- 19.2.1 AM-IF Alignment
- 19.2.2 AM RF Adjustment

## 19.2.1 AM-IF Alignment

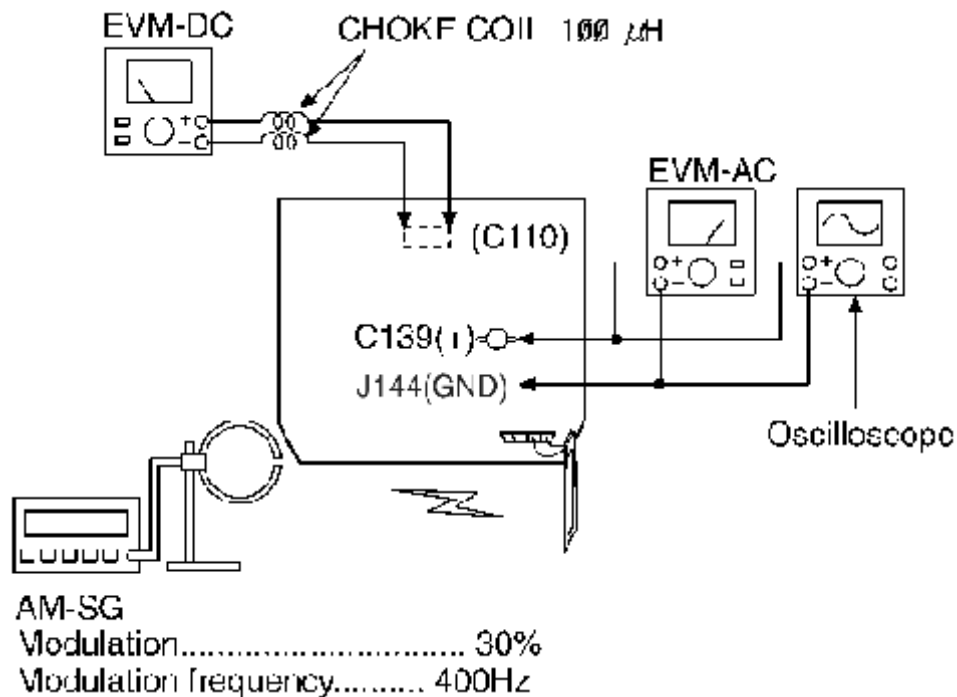
1. Connect the instrument as shown in Fig. 5.
2. Set the unit to AM mode.
3. Apply signal as shown in Fig. 5 from AM-SG.
4. Adjust Z102 so that the output frequency is maximized in Fig. 6.



## 19.2.2 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  $1.1 \pm 0.5V$ .

Fig. 7

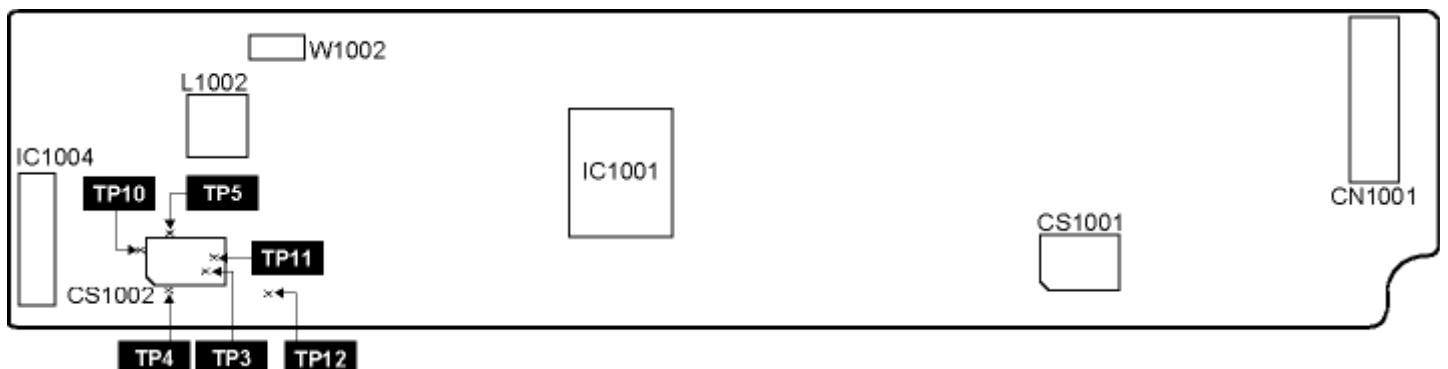


## 19.3 Alignment Points

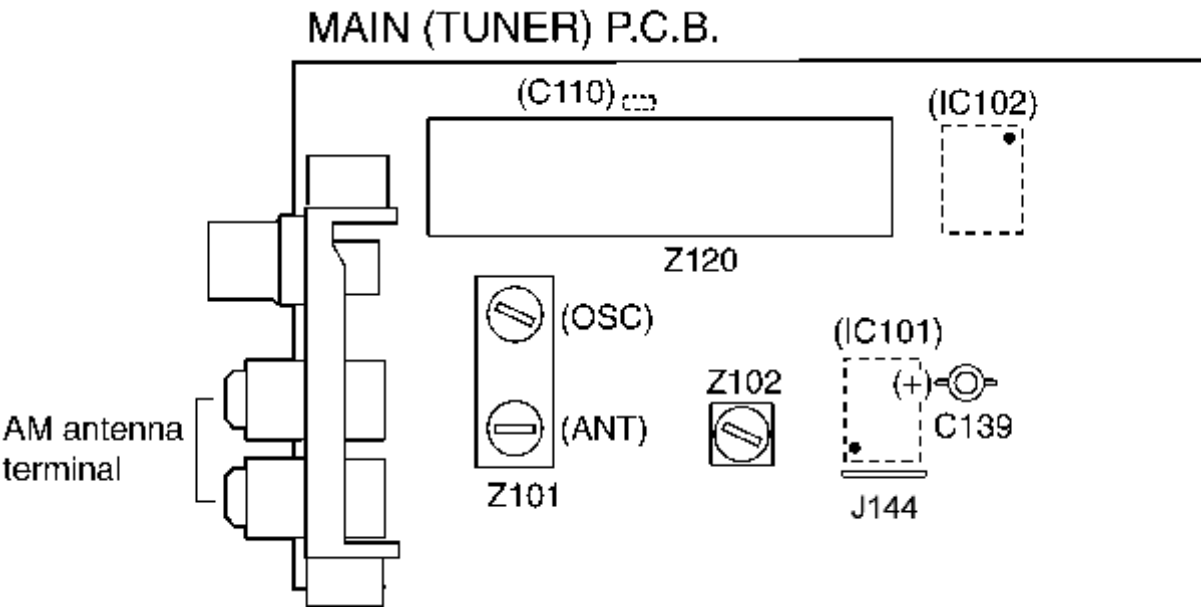
### 19.3.1 Cassette Deck Section

#### 19.3.2 Adjustment Point

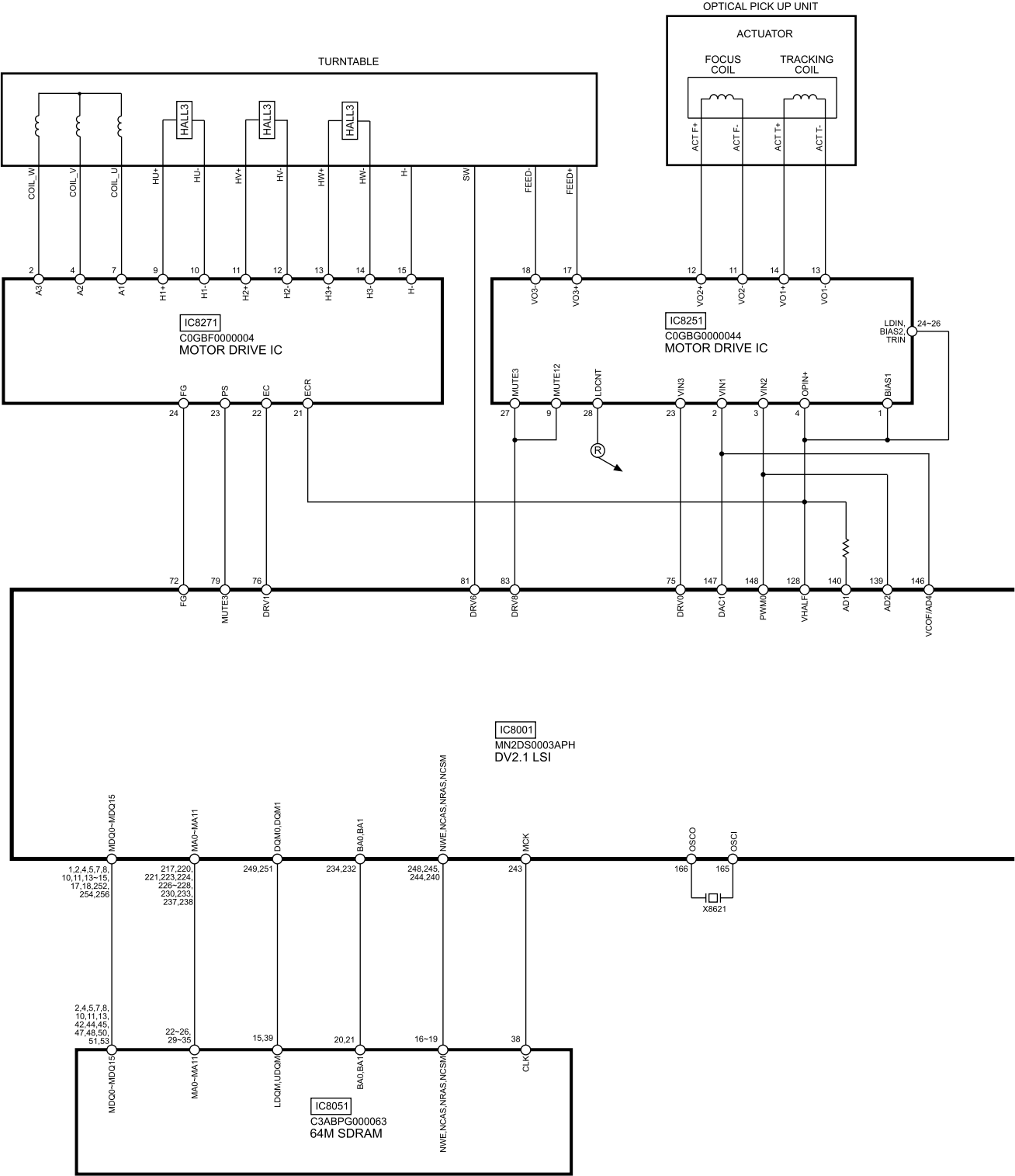
### 19.3.1 Cassette Deck Section

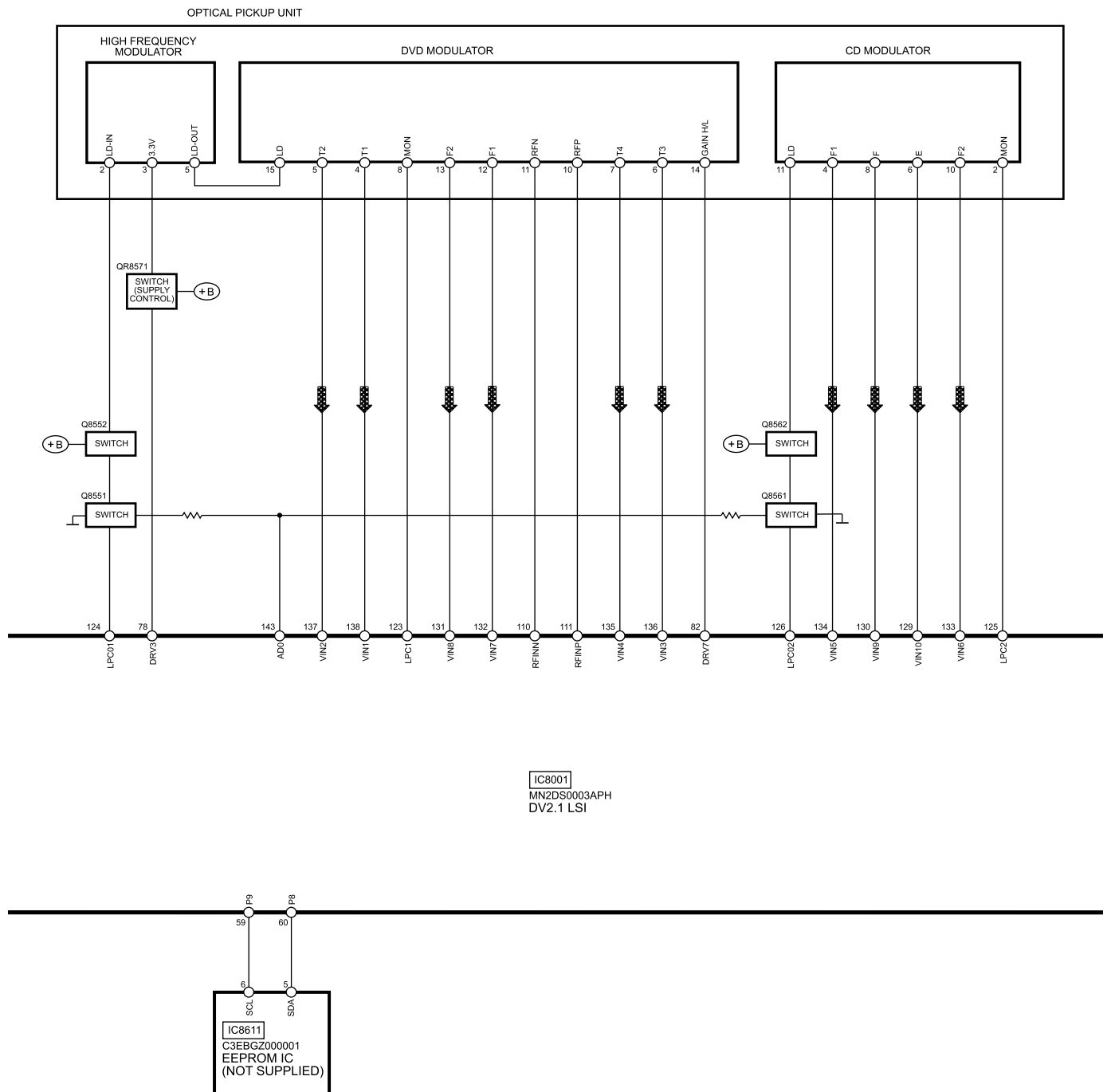


# 19.3.2 Adjustment Point

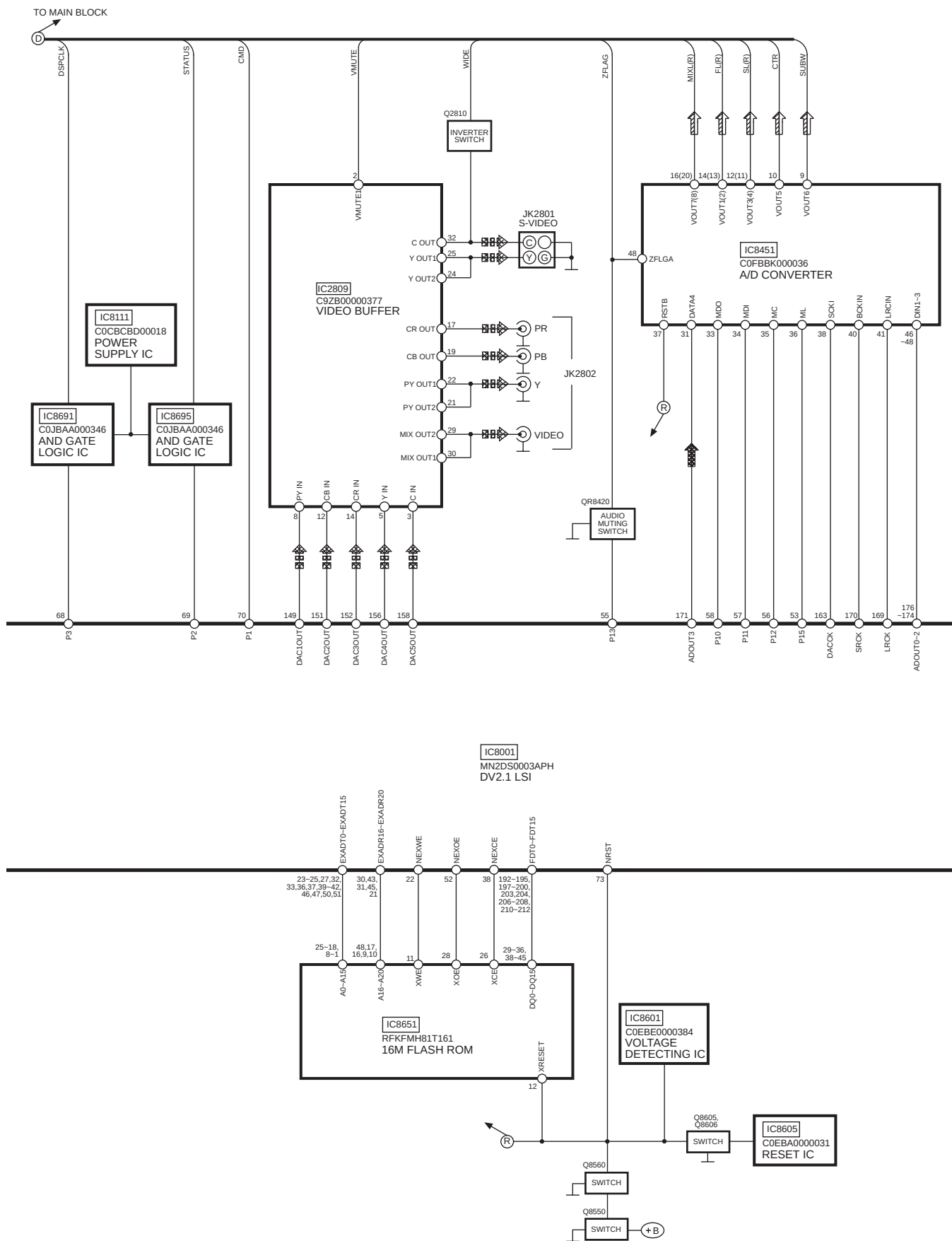


# 20 Block Diagram

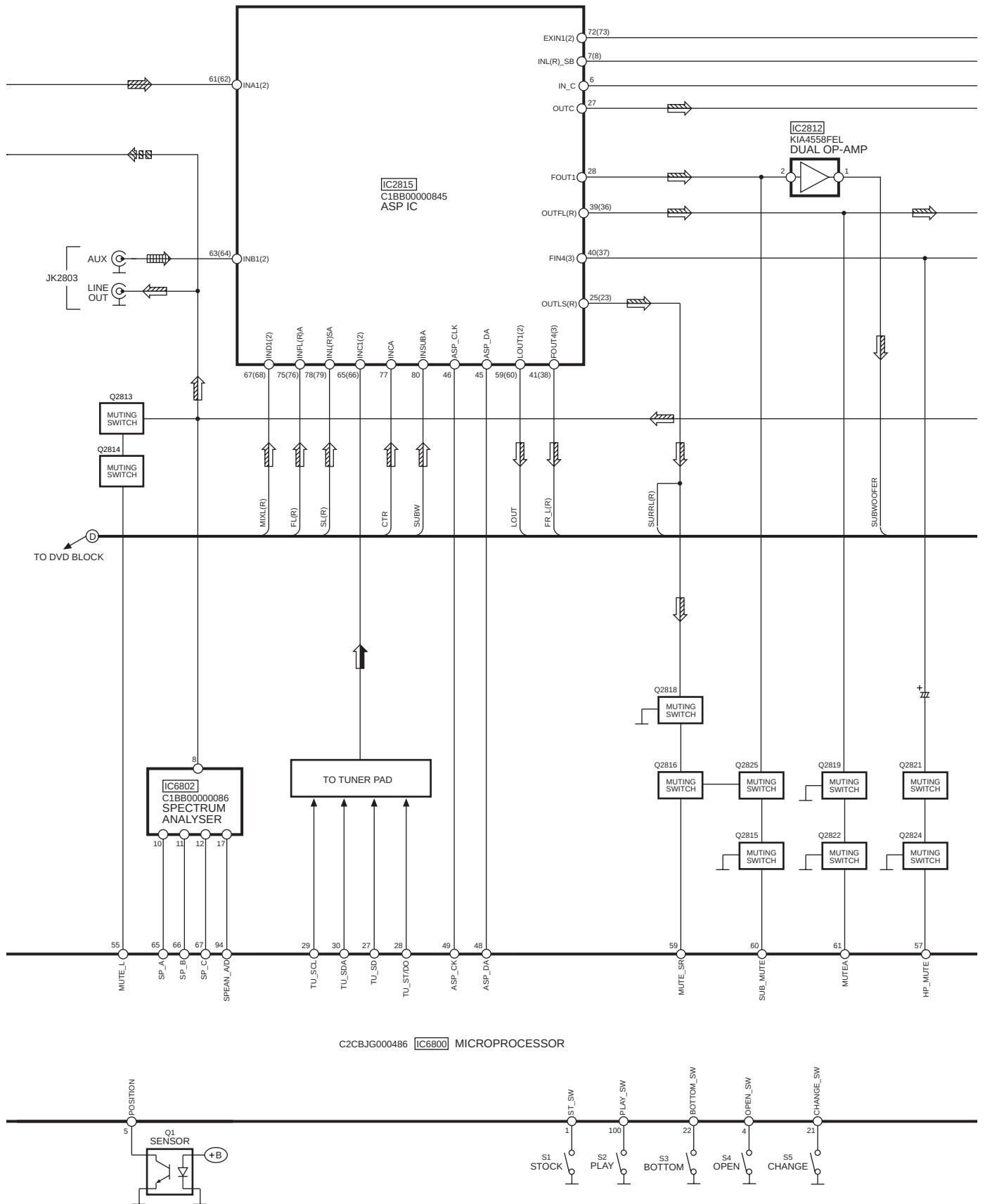


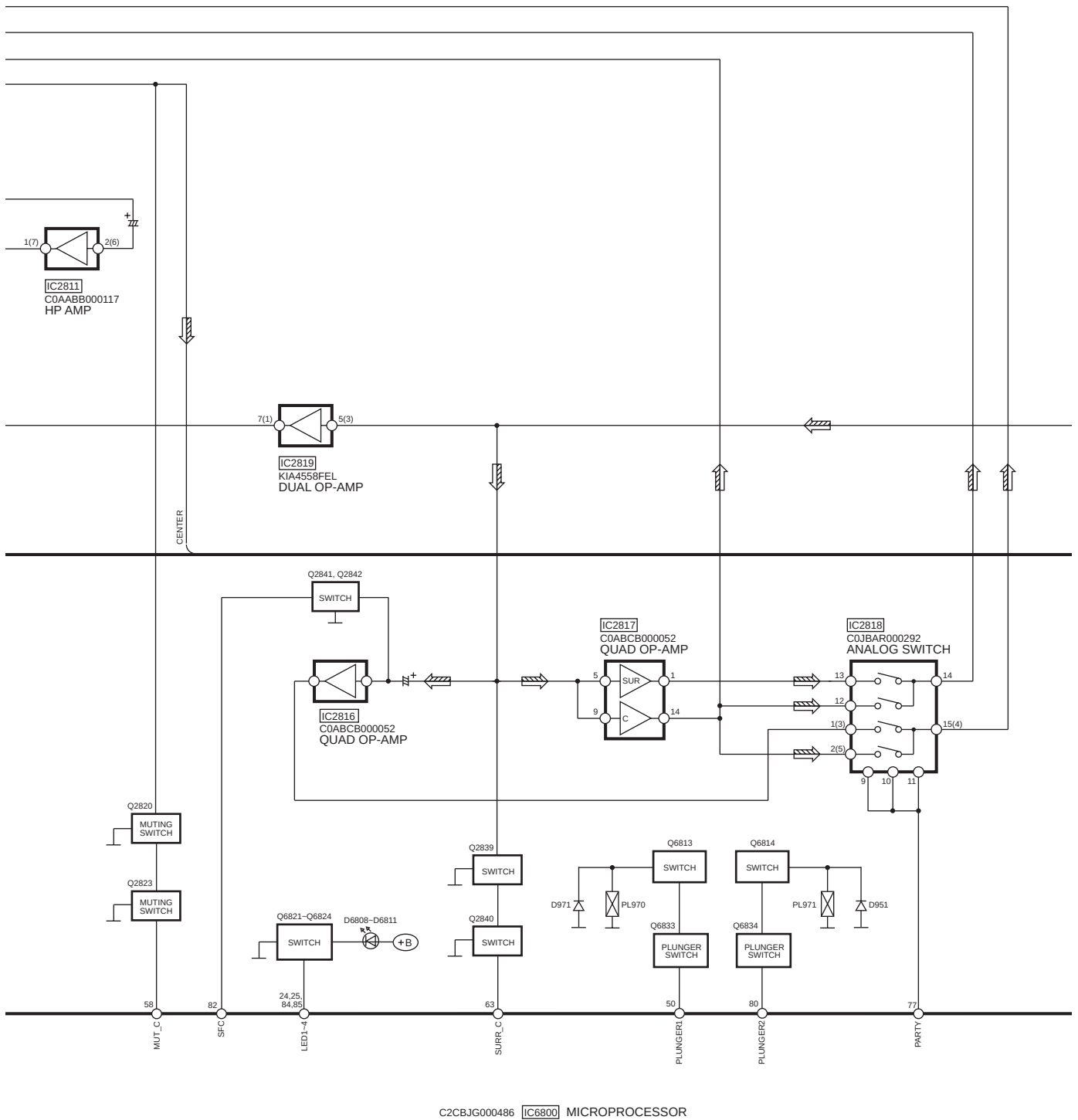


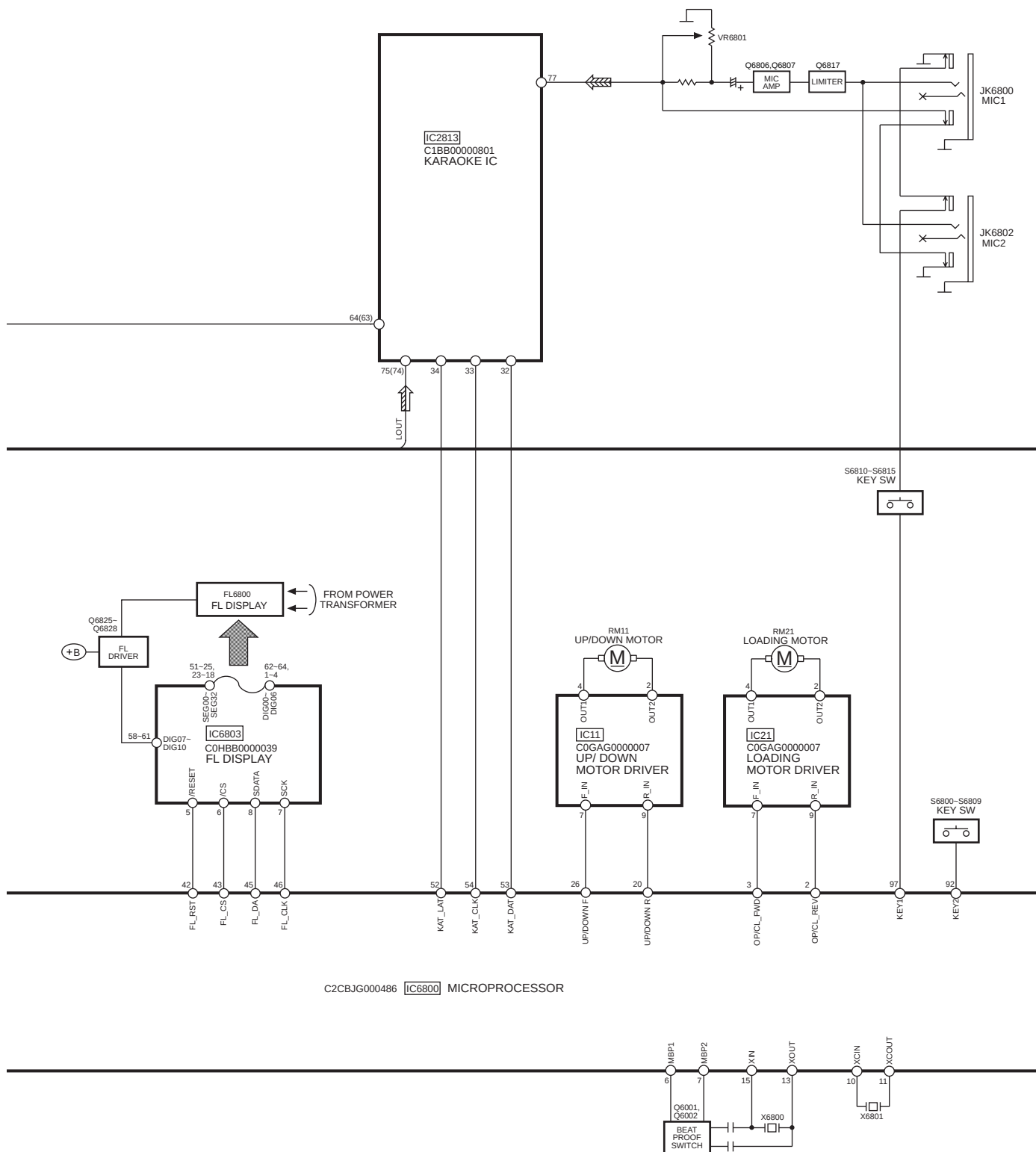


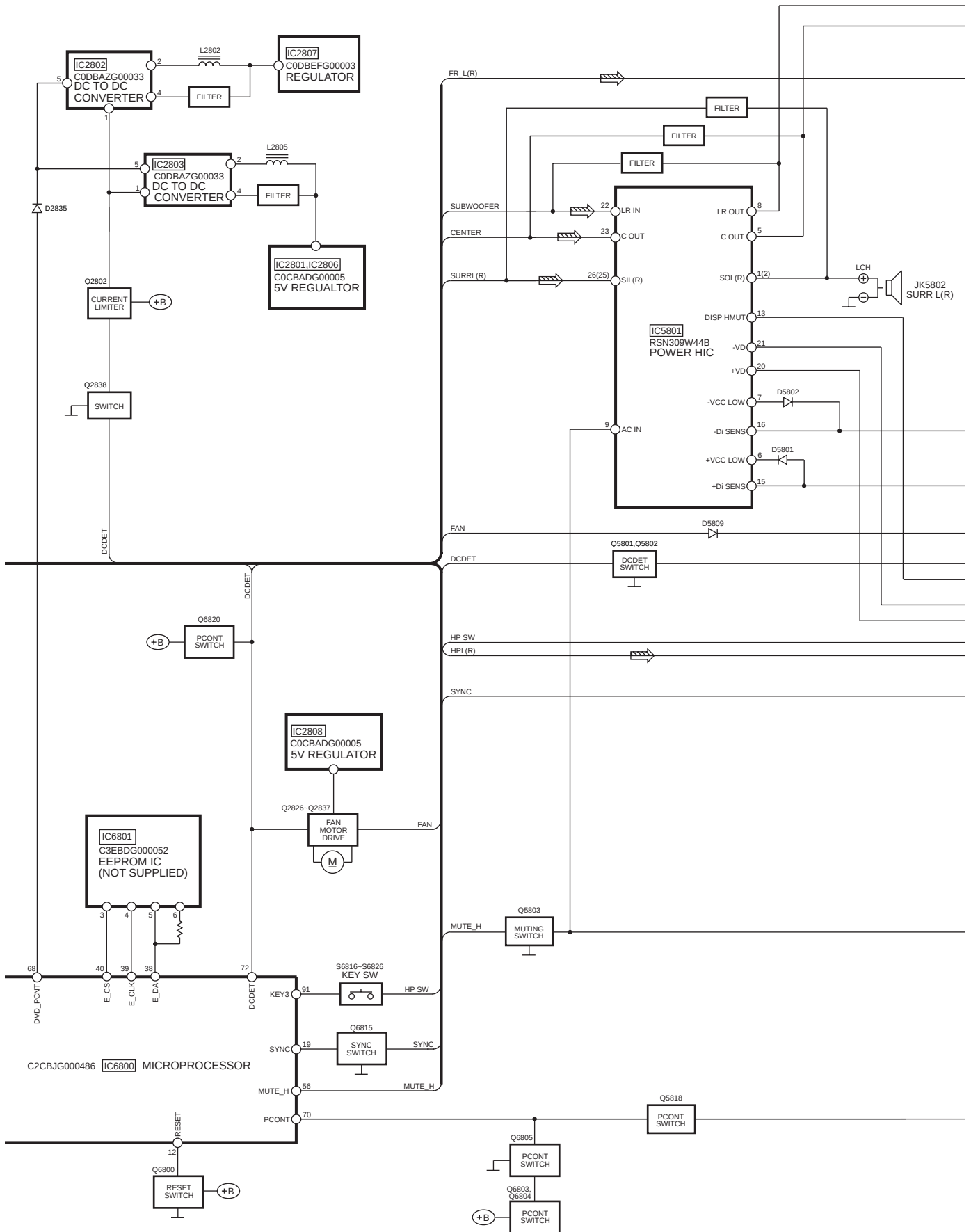


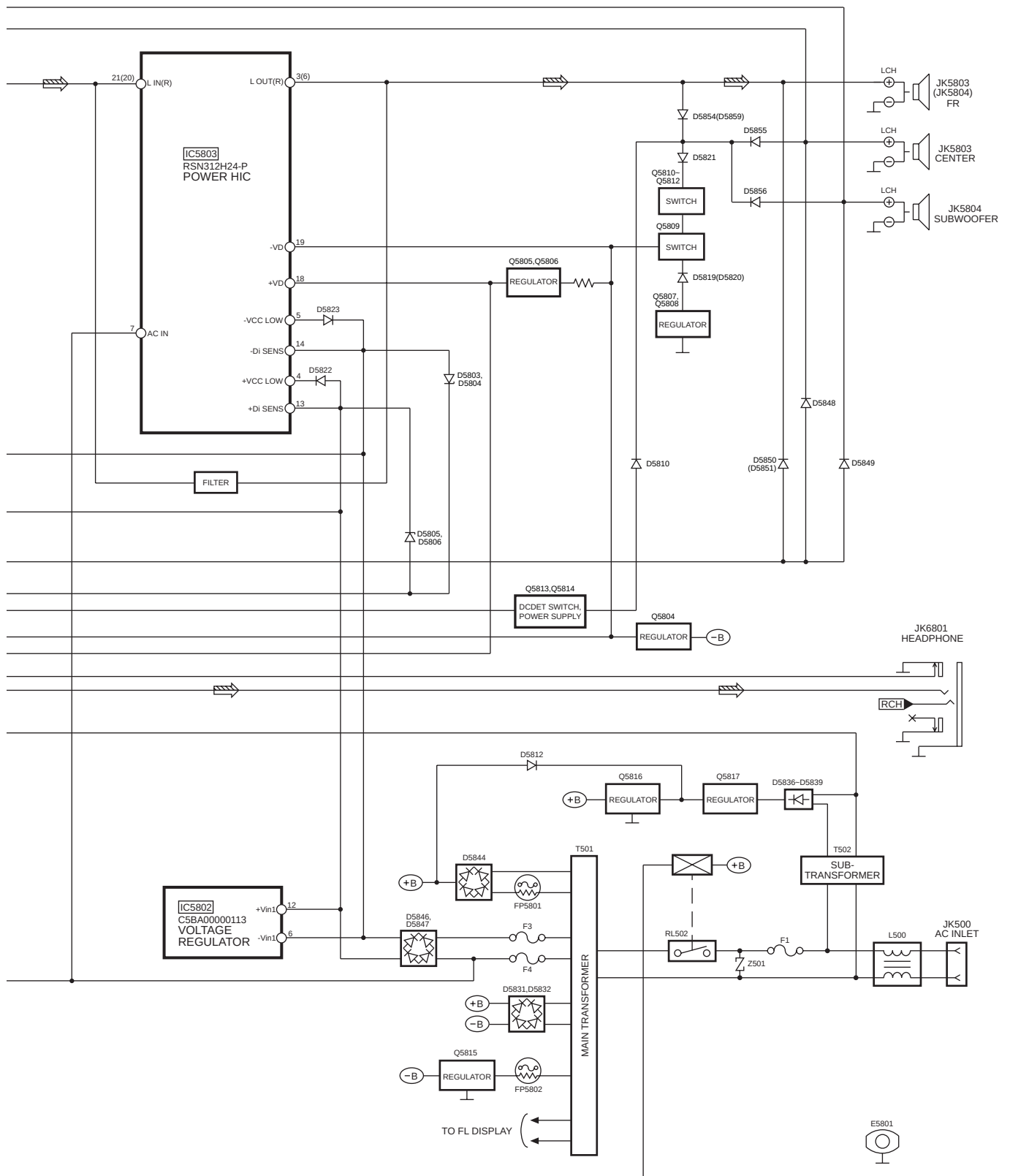












## 20 Schematic Diagram

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

Note:

|               |                          |
|---------------|--------------------------|
| <b>S1</b>     | : Stock Switch           |
| <b>S2</b>     | : Play Switch            |
| <b>S3</b>     | : Bottom Switch          |
| <b>S4</b>     | : Open Switch            |
| <b>S5</b>     | : Change 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>S6800</b>  | : DVD/CD Switch          |
| <b>S6801</b>  | : Tape Switch            |
| <b>S6802</b>  | : Tuner Switch           |
| <b>S6803</b>  | : Aux Switch             |
| <b>S6804</b>  | : Deck 1 Switch          |
| <b>S6805</b>  | : Display Switch         |
| <b>S6806</b>  | : Deck 2 Switch          |
| <b>S6807</b>  | : Rew Switch             |
| <b>S6808</b>  | : FF Switch              |
| <b>S6809</b>  | : Stop Switch            |
| <b>S6810</b>  | : Power Switch           |
| <b>S6811</b>  | : Disc Check Switch      |
| <b>S6812</b>  | : Multi Re-Master Switch |
| <b>S6813</b>  | : Super Surround Switch  |
| <b>S6814</b>  | : Deck1/2 Switch         |
| <b>S6815</b>  | : Rec Switch             |
| <b>S6816</b>  | : CD Open/Close Switch   |
| <b>S6817</b>  | : Disc Change Switch     |
| <b>S6819</b>  | : Disc 5 Switch          |
| <b>S6820</b>  | : Disc 4 Switch          |
| <b>S6821</b>  | : Disc 3 Switch          |
| <b>S6822</b>  | : Disc 2 Switch          |
| <b>S6823</b>  | : Disc 1 Switch          |
| <b>S6824</b>  | : SSEQ Switch            |
| <b>S6825</b>  | : S.Woofer Switch        |
| <b>S6826</b>  | : Sound EQ Switch        |
| <b>VR6800</b> | : VR Volume Jog          |
| <b>VR6801</b> | : VR Mic                 |

- 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.

(( )) : CD < > : FM

### • 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.

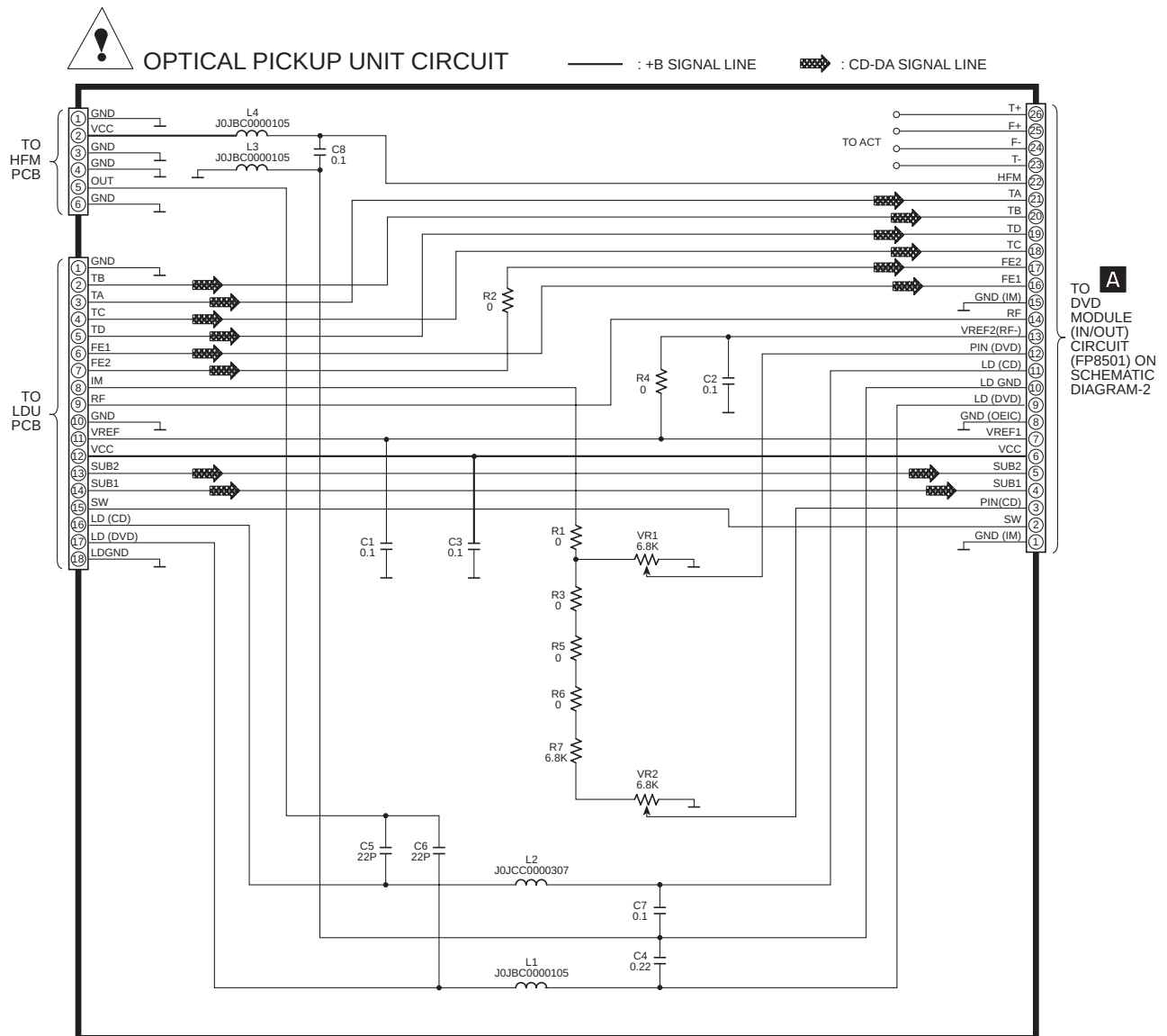
Secondary trouble can be prevented by taking care during repair.

- 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.



## 20.1. Optical Pickup Unit Circuit

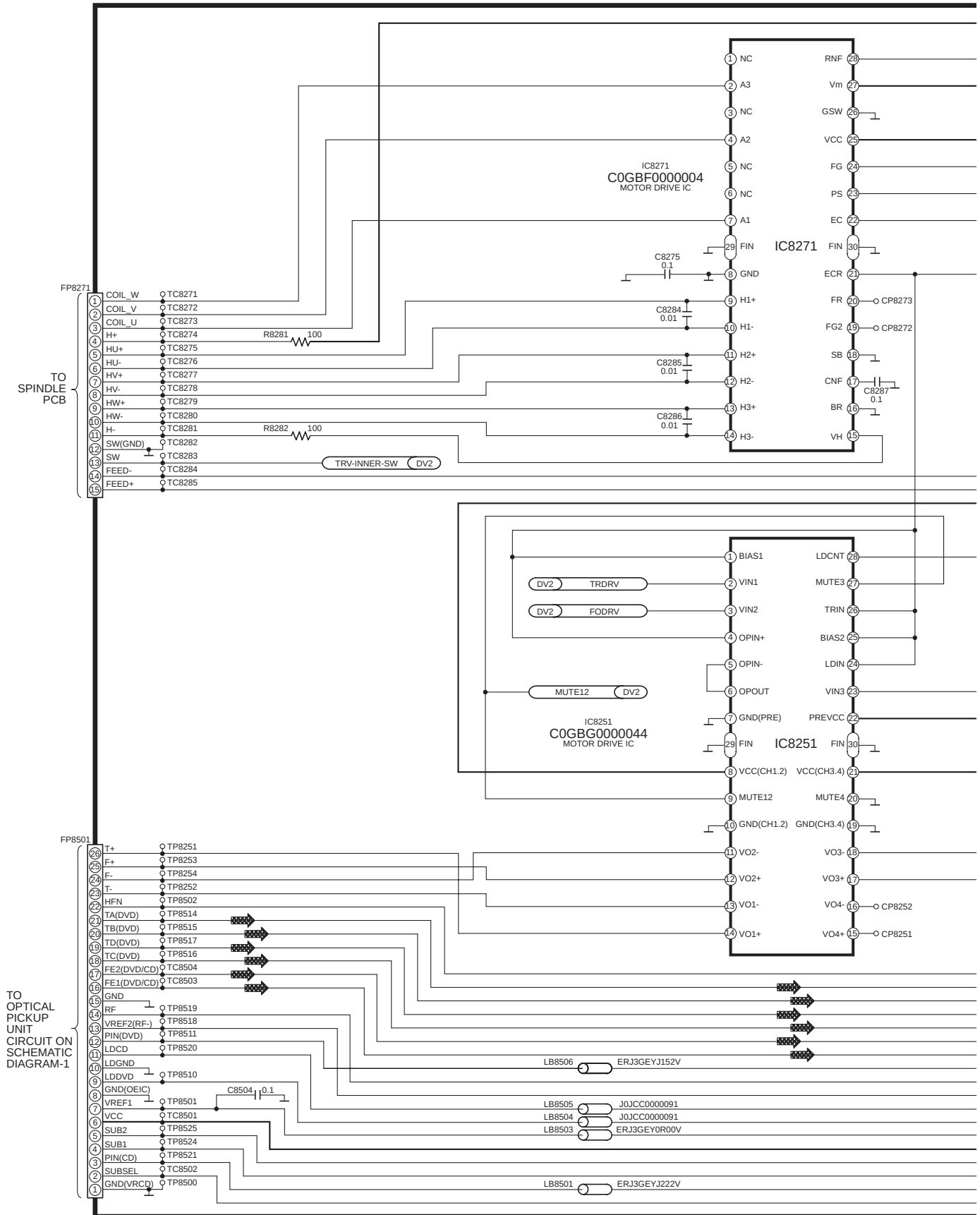
SCHEMATIC DIAGRAM - 1



## 20.2. (A) DVD Module Circuit

SCHEMATIC DIAGRAM - 2

**A** DVD MODULE (IN/OUT) CIRCUIT — : +B SIGNAL LINE ➡ : CD-DA SIGNAL LINE



## A

———— : +B SIGNAL LINE

 : CD-DA SIGNAL LINE



**A**

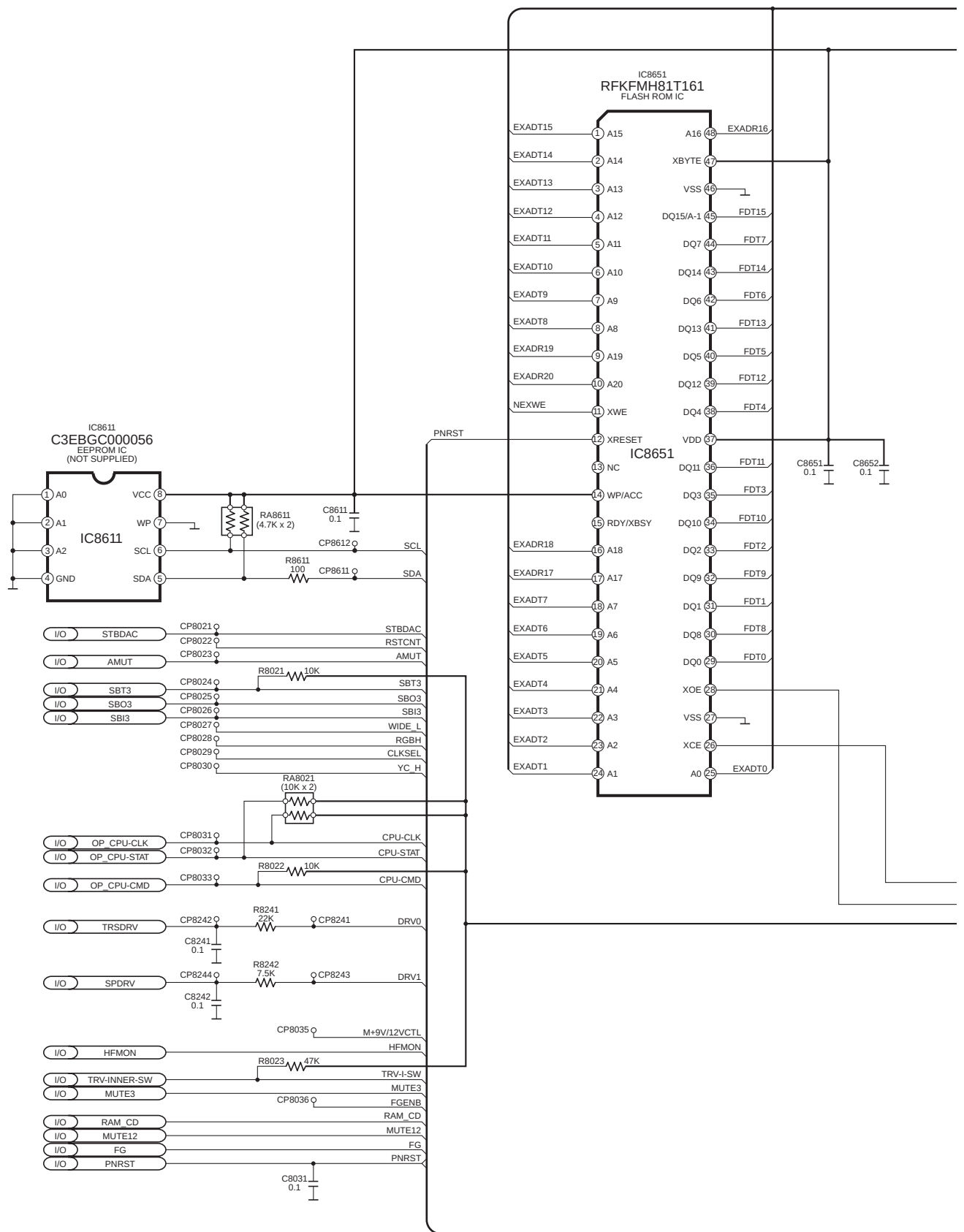
 : MAIN SIGNAL LINE
  : DVD AUDIO SIGNAL LINE  
 : +B SIGNAL LINE
  : DVD VIDEO SIGNAL LINE



# SCHEMATIC DIAGRAM - 5

## A DVD MODULE (DV2) CIRCUIT

— : +B SIGNAL LINE

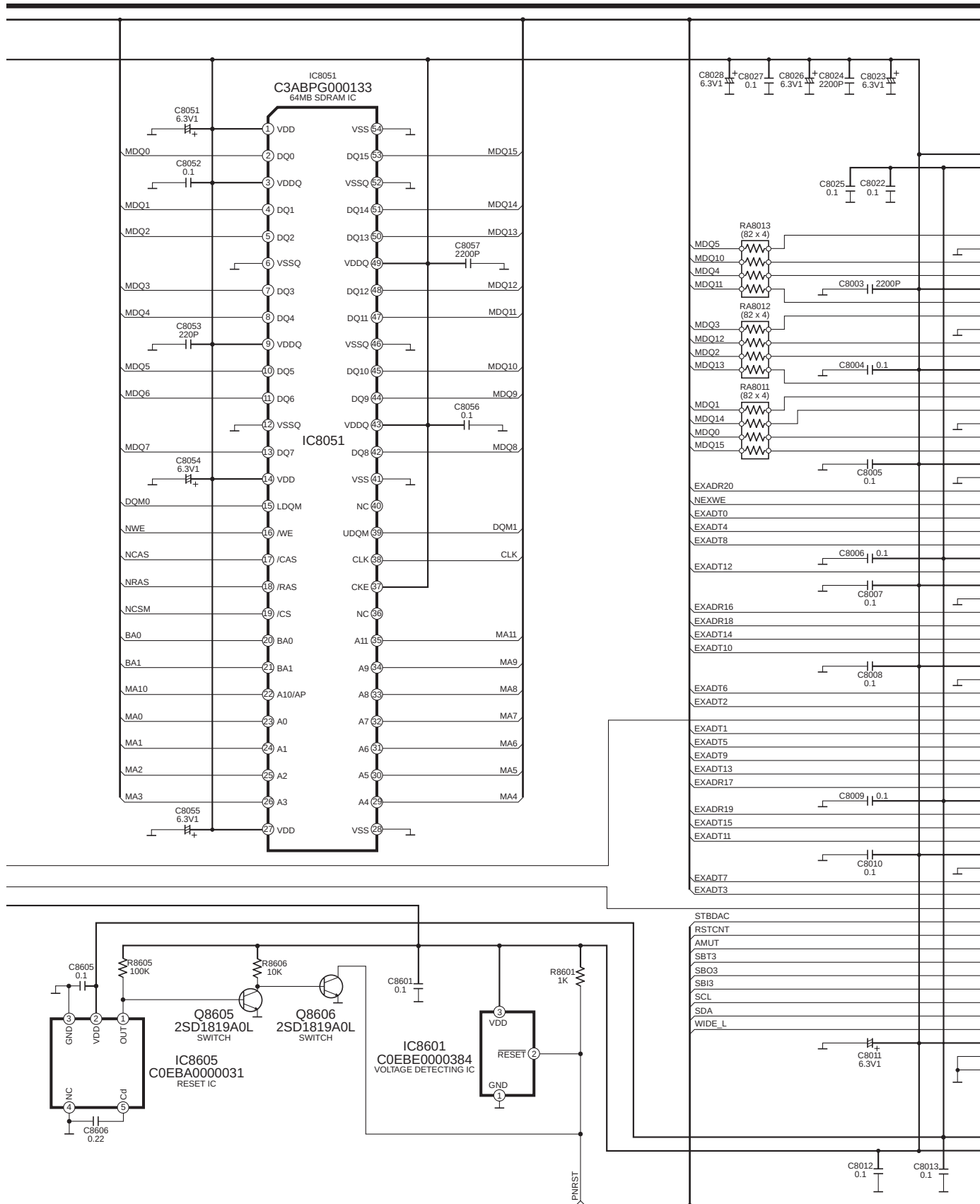


# SCHEMATIC DIAGRAM - 6

**A**

## DVD MODULE (DV2) CIRCUIT

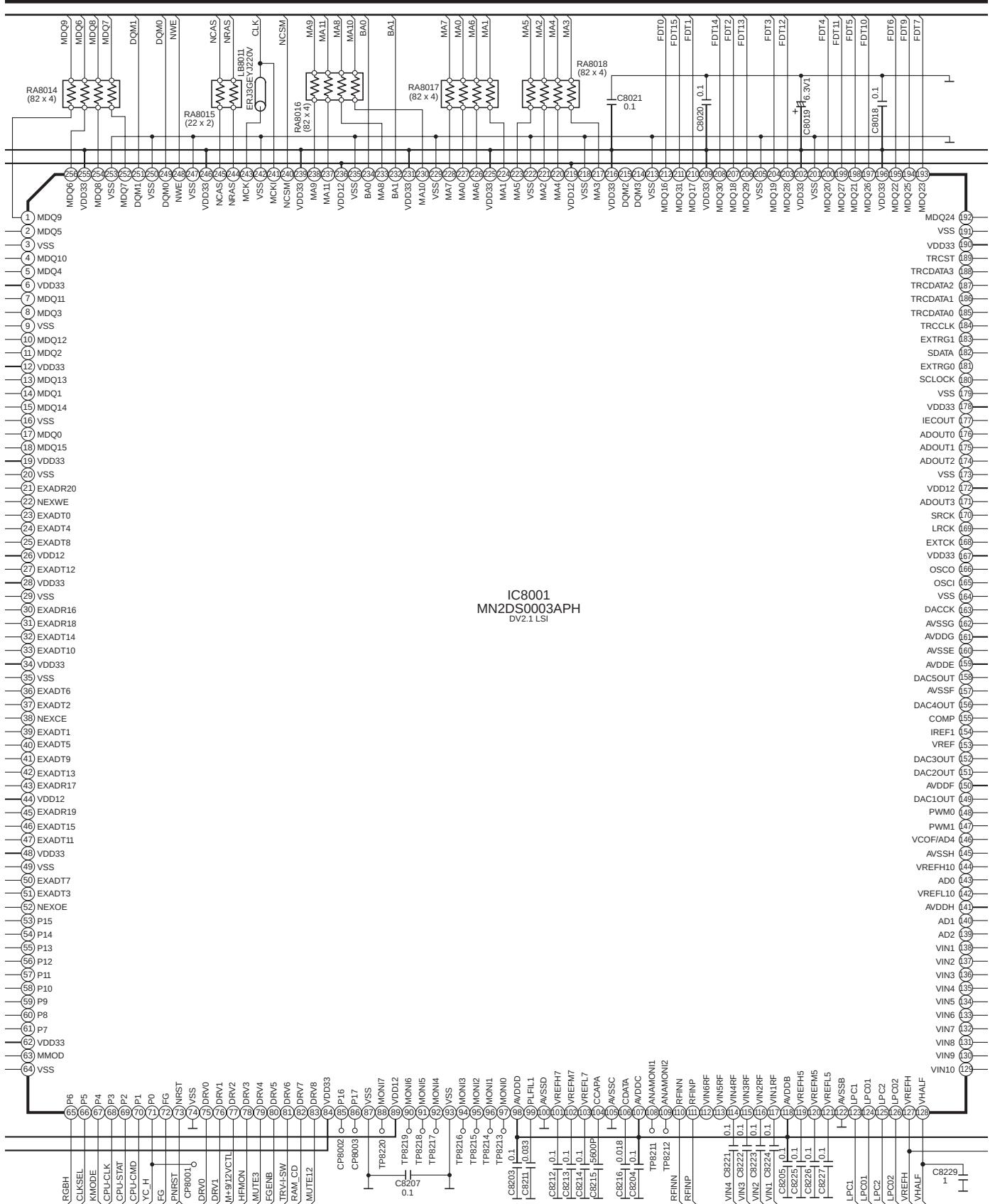
— : +B SIGNAL LINE



# SCHEMATIC DIAGRAM - 7

## DVD MODULE (DV2) CIRCUIT

— : +B SIGNAL LINE



**A**

 : CD-DA SIGNAL LINE

: +B SIGNAL LINE

 : DVD VIDEO SIGNAL LINE

 : DVD AUDIO SIGNAL LINE





### 20.3. (B) Main Circuit

SCHEMATIC DIAGRAM - 9

## B MAIN CIRCUIT

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

 : MIC SIGNAL LINE

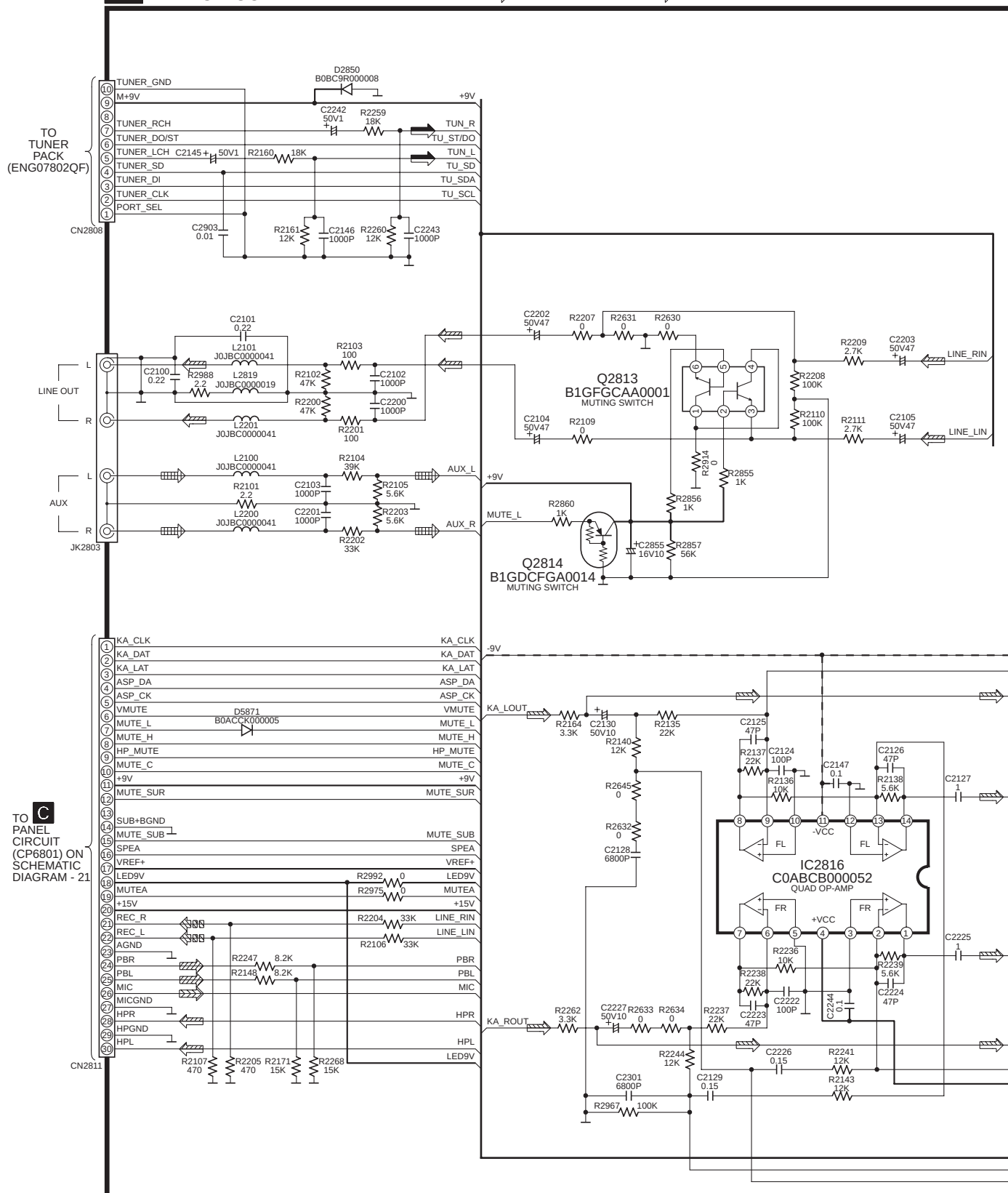
 : MAIN SIGNAL LINE

 : AUX SIGNAL LINE

 : PLAYBACK SIGNAL LINE

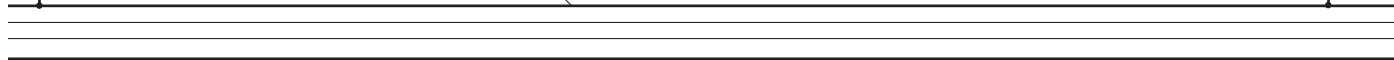
➡ : AM/FM SIGNAL LI

▧ : RECORD SIGNAL LINE



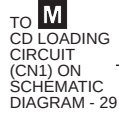
## B MAIN CIRCUIT

— — — : -B SIGNAL LINE       : MAIN SIGNAL LINE



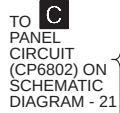
## B MAIN CIRCUIT

 : MAIN SIGNAL LINE



## B MAIN CIRCUIT

 : MAIN SIGNAL LINE  
 : PLAYBACK SIGNAL LINE  
 : RECORD SIGNAL LINE



## B MAIN CIRCUIT

— — — : -B SIGNAL LINE

 : MAIN SIGNAL LINE



## B MAIN CIRCUIT

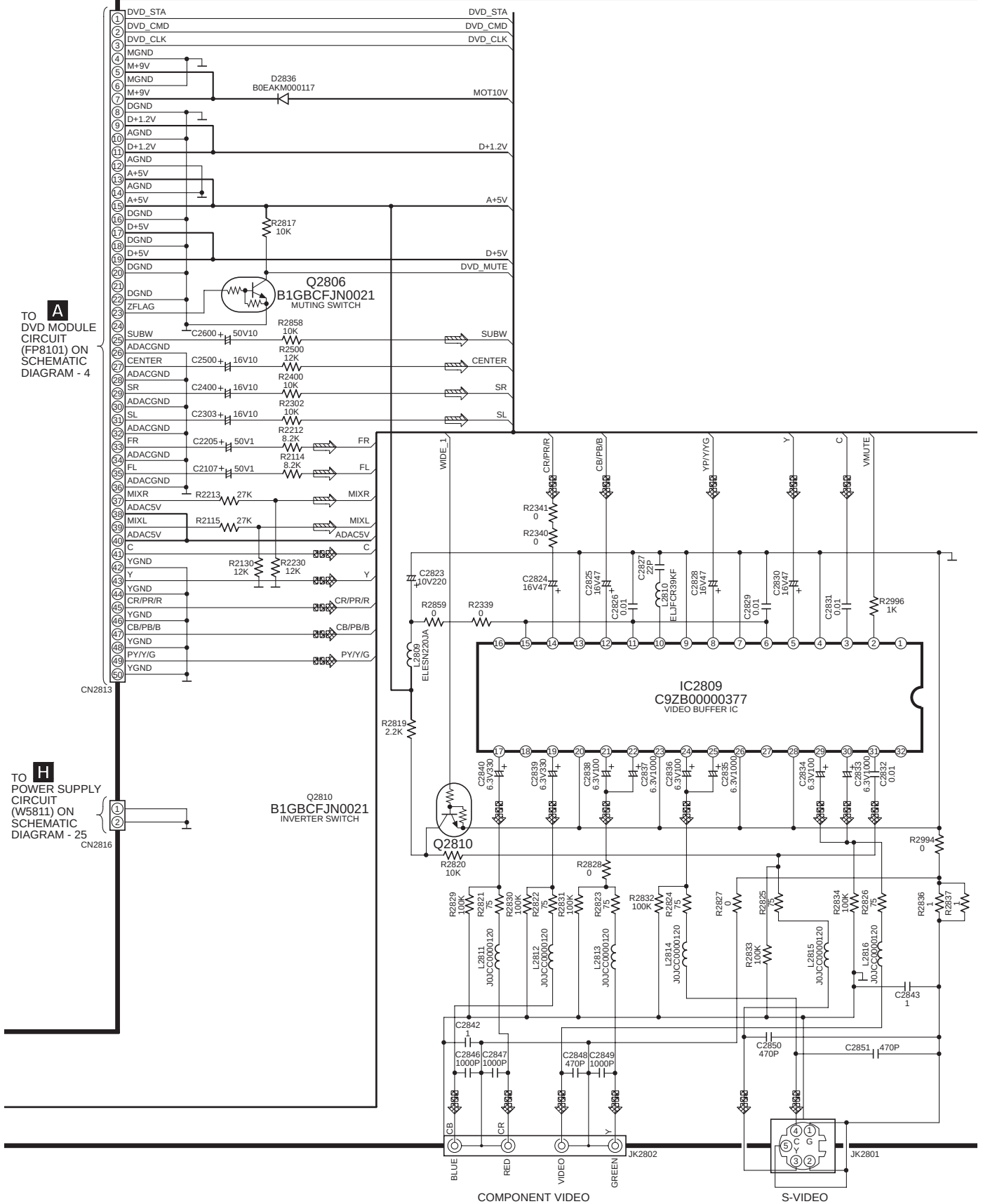
# SCHEMATIC DIAGRAM - 15

## B MAIN CIRCUIT

⬡ : DVD VIDEO SIGNAL LINE

— : +B SIGNAL LINE

⬡ : MAIN SIGNAL LINE



**B**

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



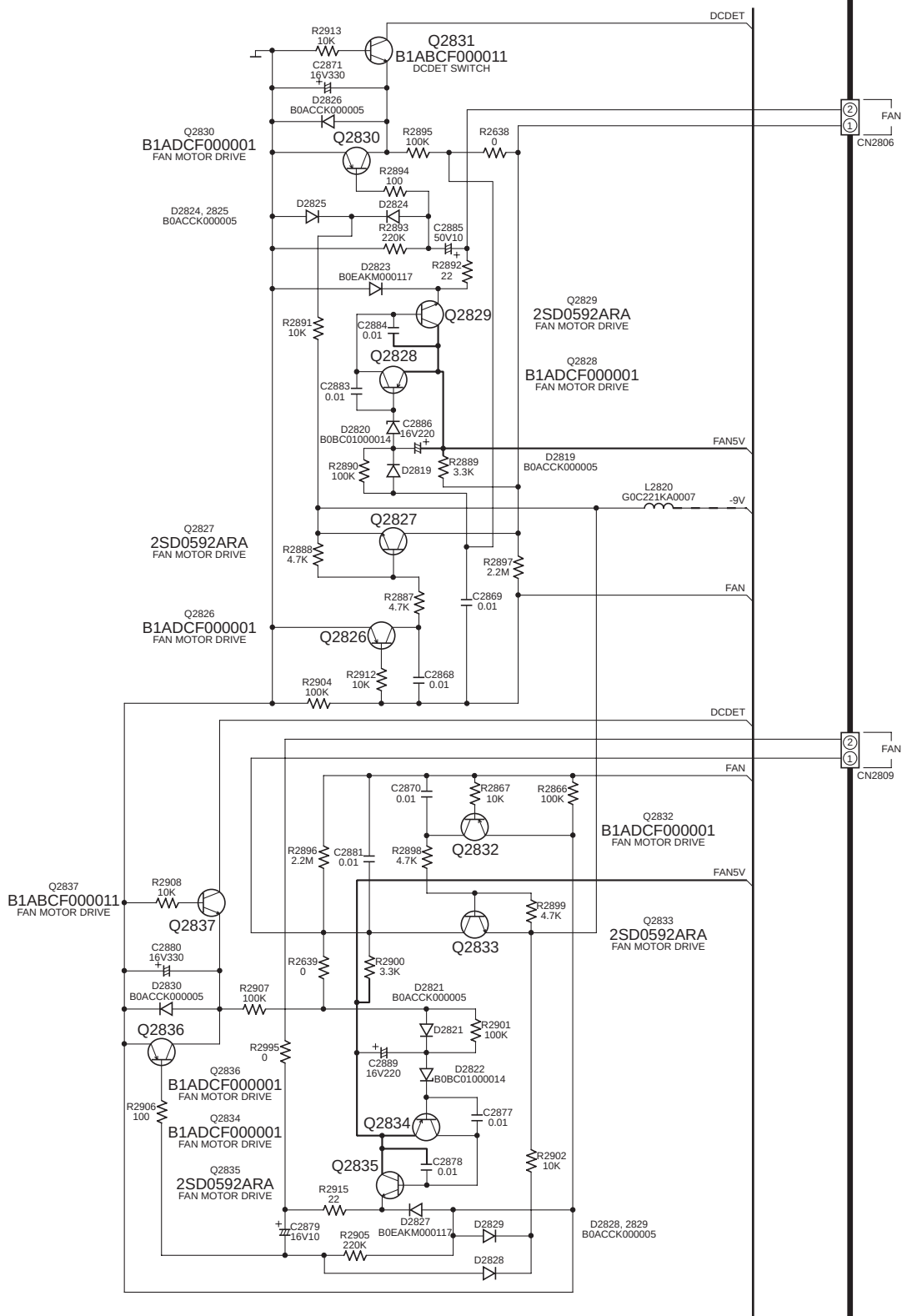


# SCHEMATIC DIAGRAM - 17

**B**

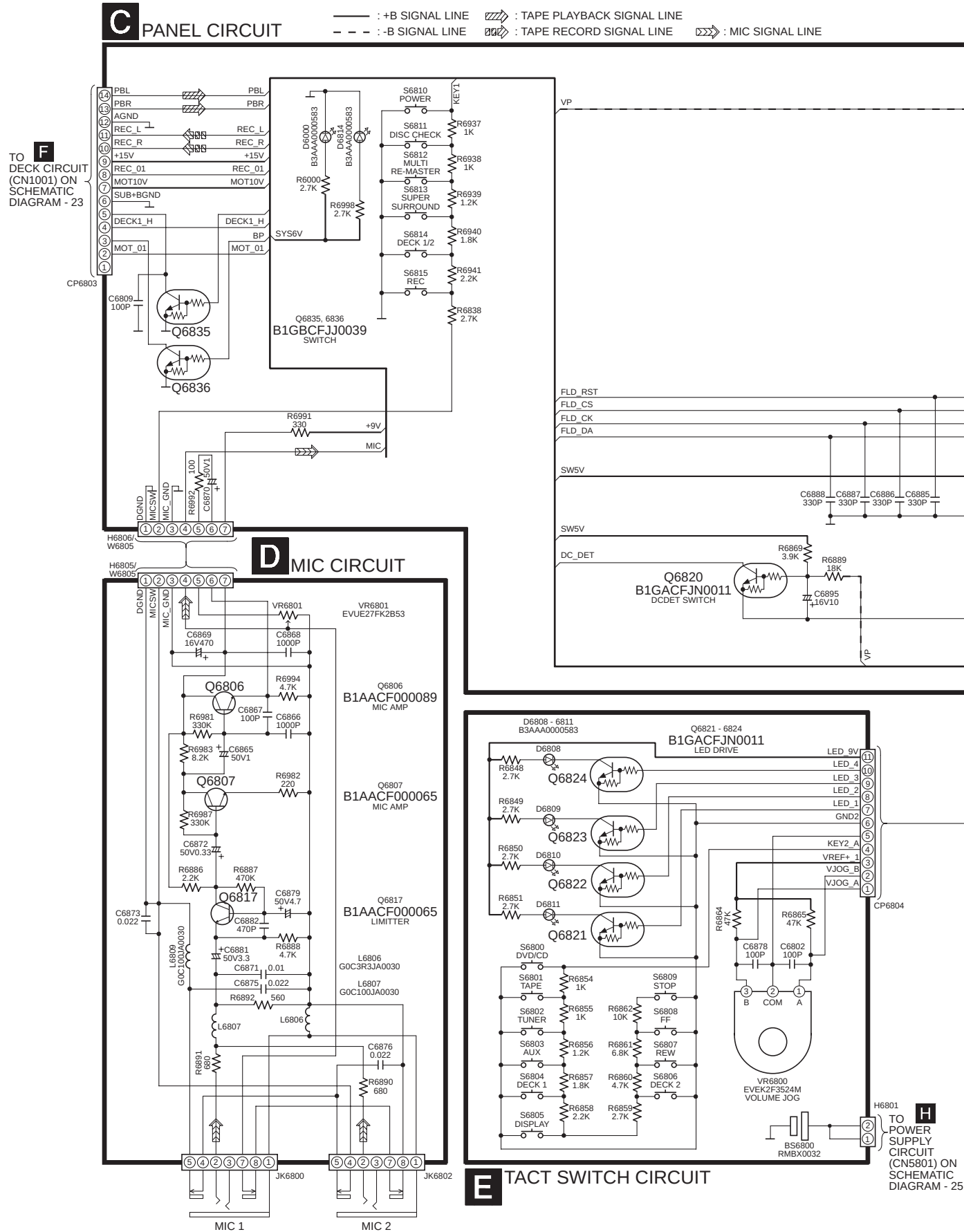
## MAIN CIRCUIT

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



## 20.4. (C) Panel Circuit , (D) Mic Circuit & (E) Tact Switch Circuit

SCHEMATIC DIAGRAM - 18



## C PANEL CIRCUIT

— — — : -B SIGNAL LINE

 : MAIN SIGNAL LINE

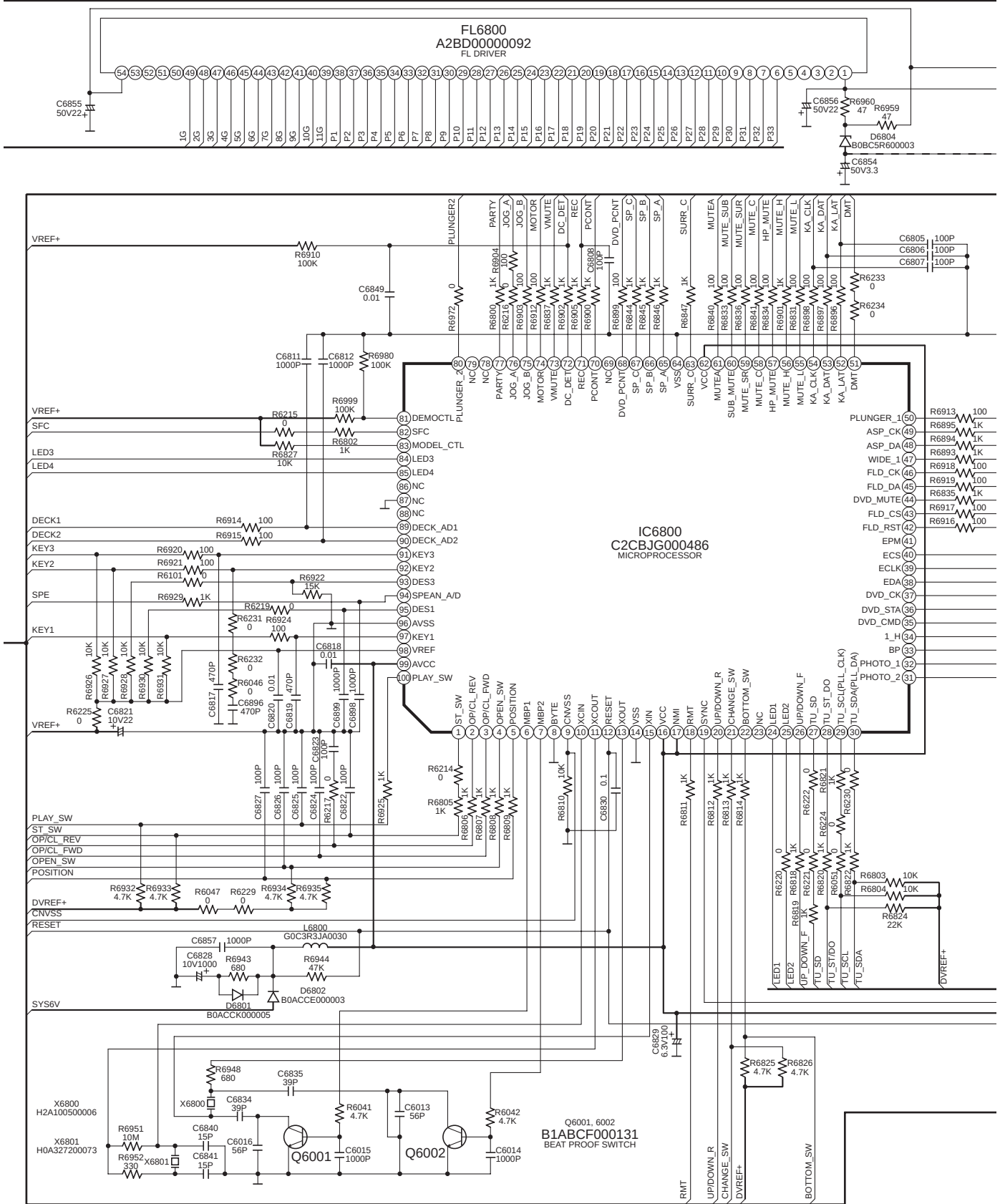


# SCHEMATIC DIAGRAM - 20

**C**

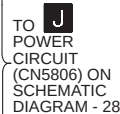
## PANEL CIRCUIT

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



## C PANEL CIRCUIT

— : +B SIGNAL LINE     : TAPE PLAYBACK SIGNAL LINE

 : MAIN SIGNAL LINE

TO **B**  
MAIN CIRCUIT  
(CN2811) ON  
SCHEMATIC  
DIAGRAM - 9

TO **B**  
MAIN CIRCUIT  
(CN2815) ON  
SCHEMATIC  
DIAGRAM - 12

TO  
DECK  
MECHANISM  
CIRCUIT  
(CN971) ON  
SCHEMATIC  
DIAGRAM - 23

## 20.5. (F) Deck Circuit & (G) Deck Mechanism Circuit

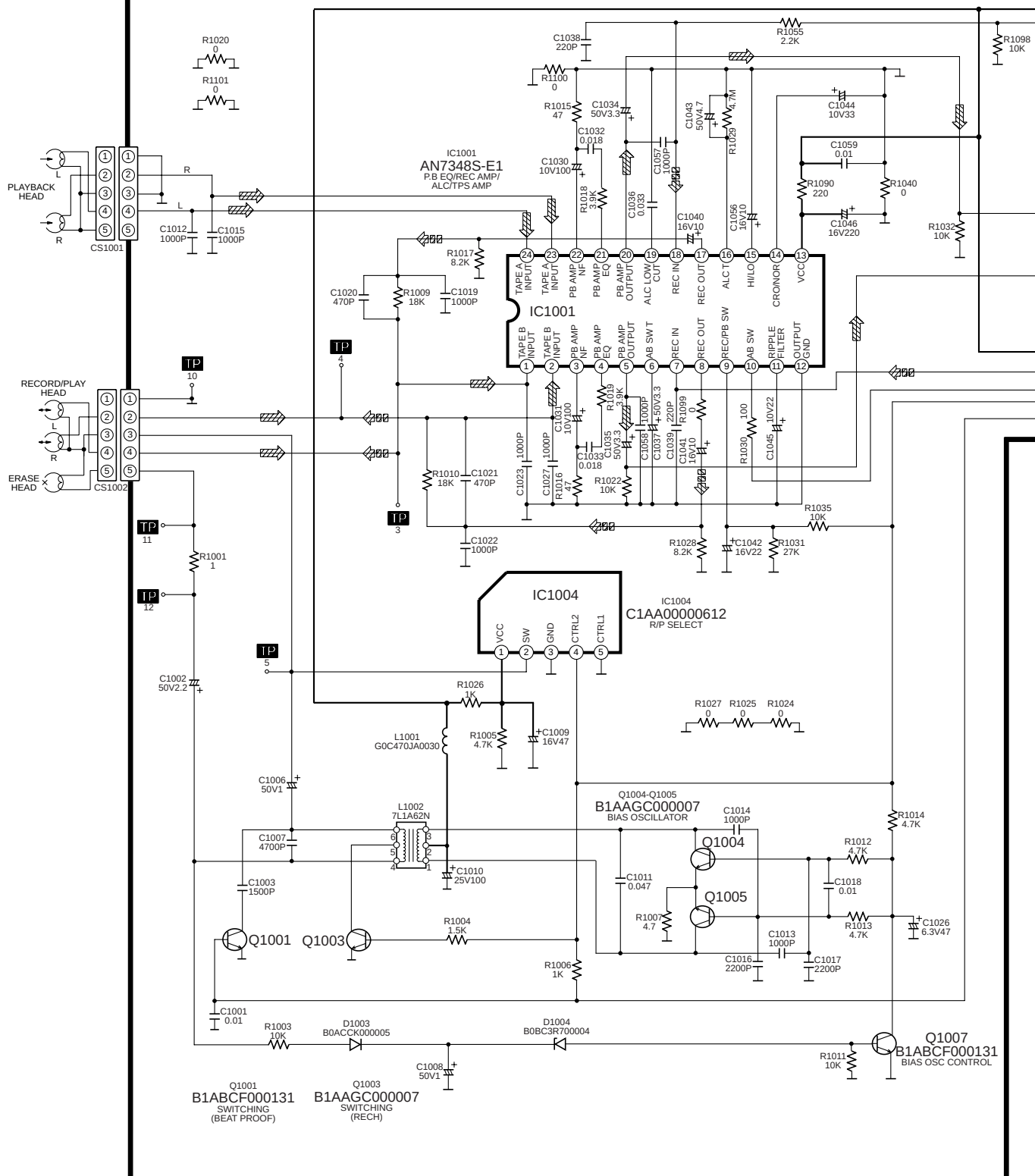
SCHEMATIC DIAGRAM - 22

## F DECK CIRCUIT

— : +B SIGNAL LINE

 : RECORD SIGNAL LINE

 : PLAYBACK SIGNAL LINE



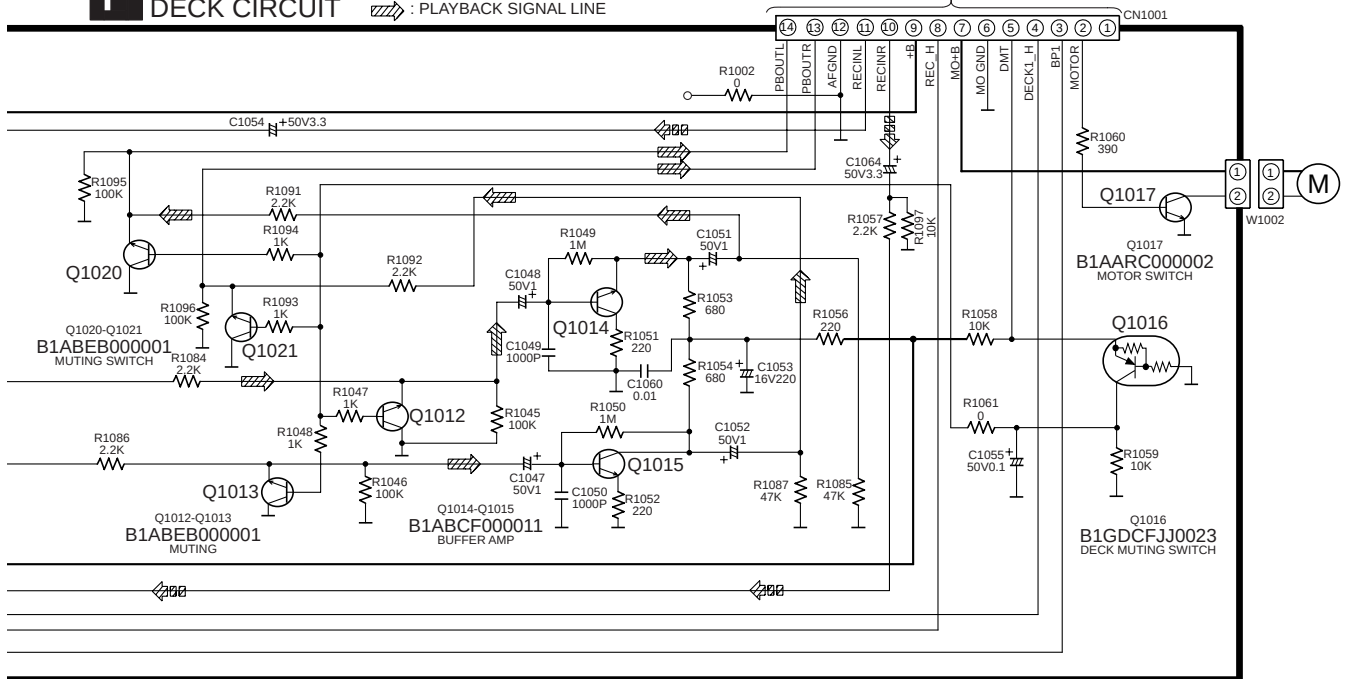
## SCHEMATIC DIAGRAM - 23

**F**

### DECK CIRCUIT

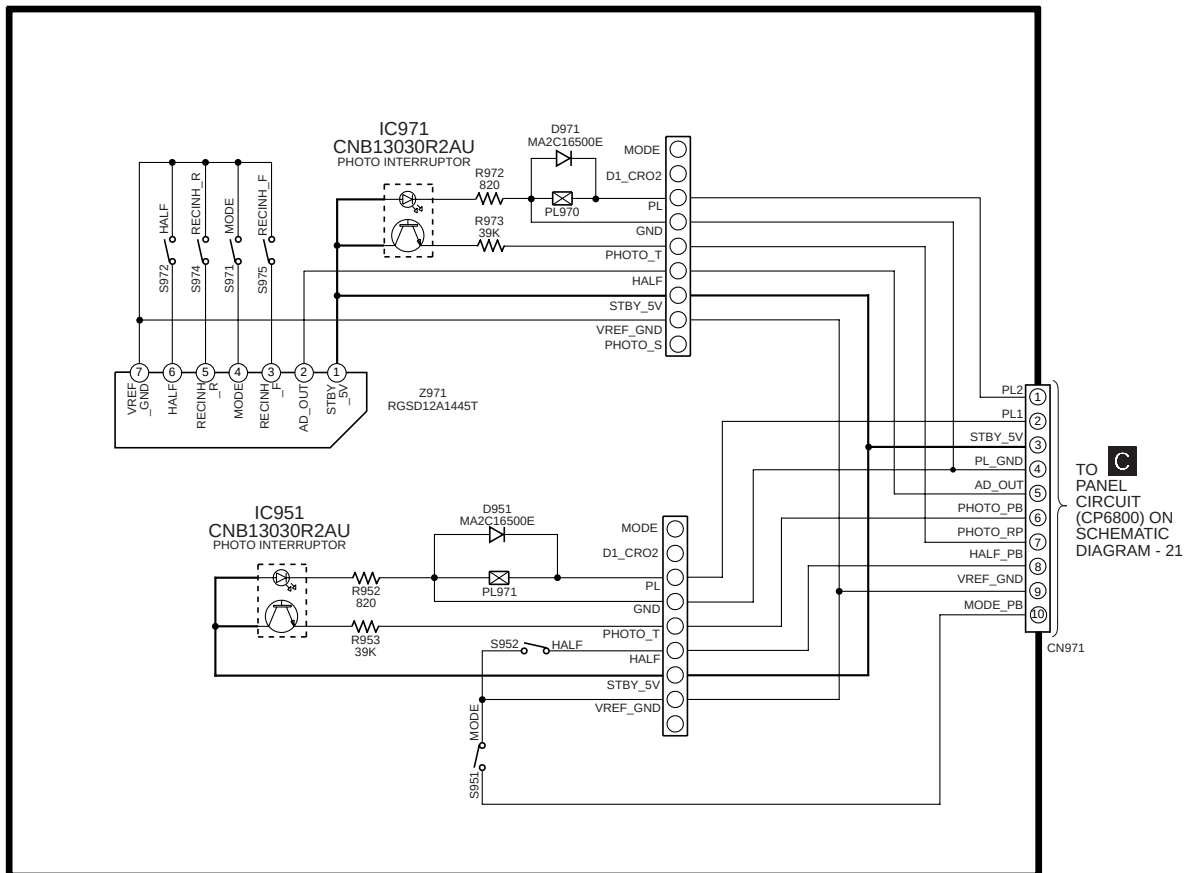
— : +B SIGNAL LINE  
 [Symbol] : RECORD SIGNAL LINE  
 [Symbol] : PLAYBACK SIGNAL LINE

TO **C**  
 PANEL CIRCUIT  
 (CP6803) ON  
 SCHEMATIC  
 DIAGRAM - 18



**G**

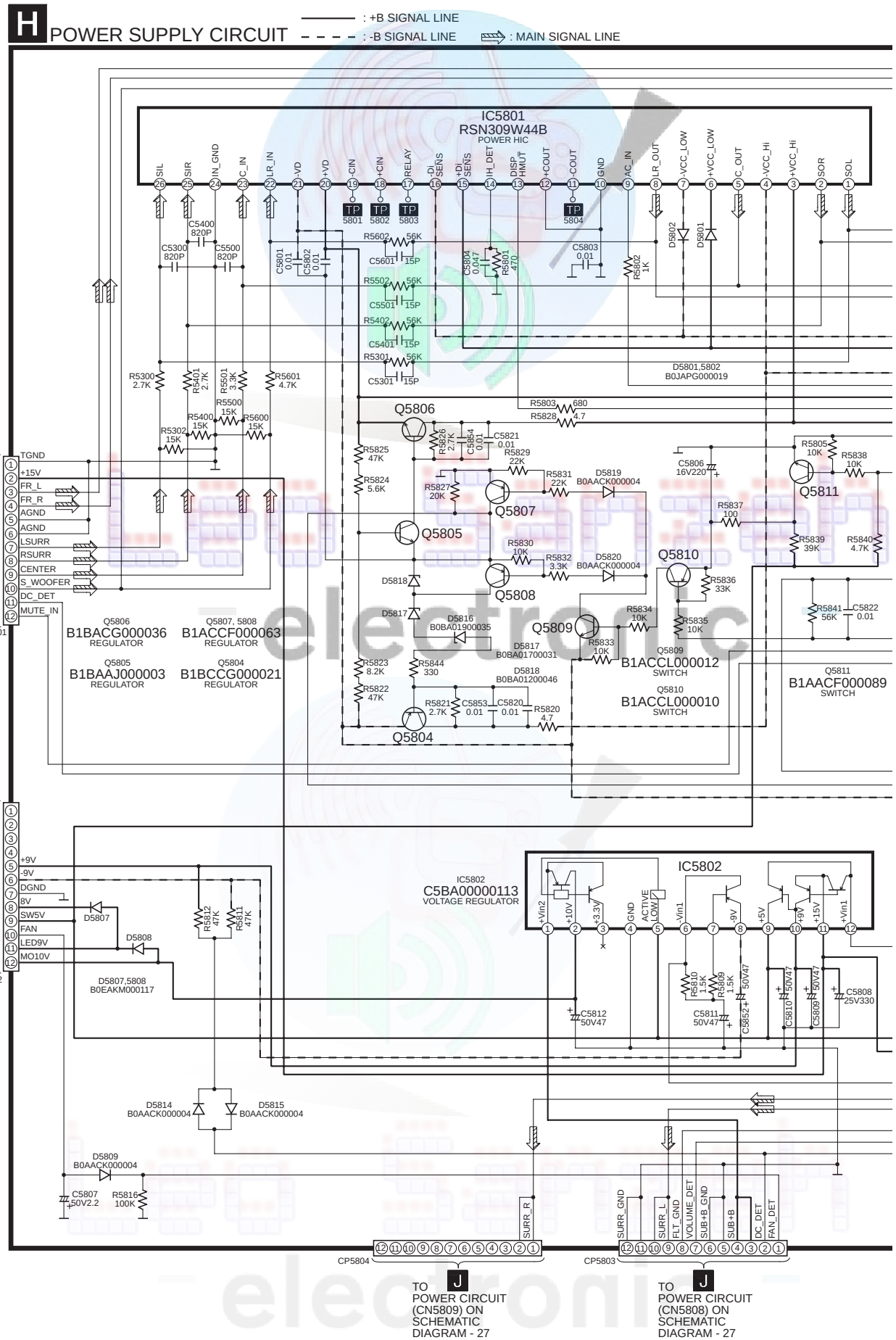
### DECK MECHANISM CIRCUIT





## 20.6. (H) Power Supply Circuit

SCHEMATIC DIAGRAM - 24







———— : +B SIGNAL LINE

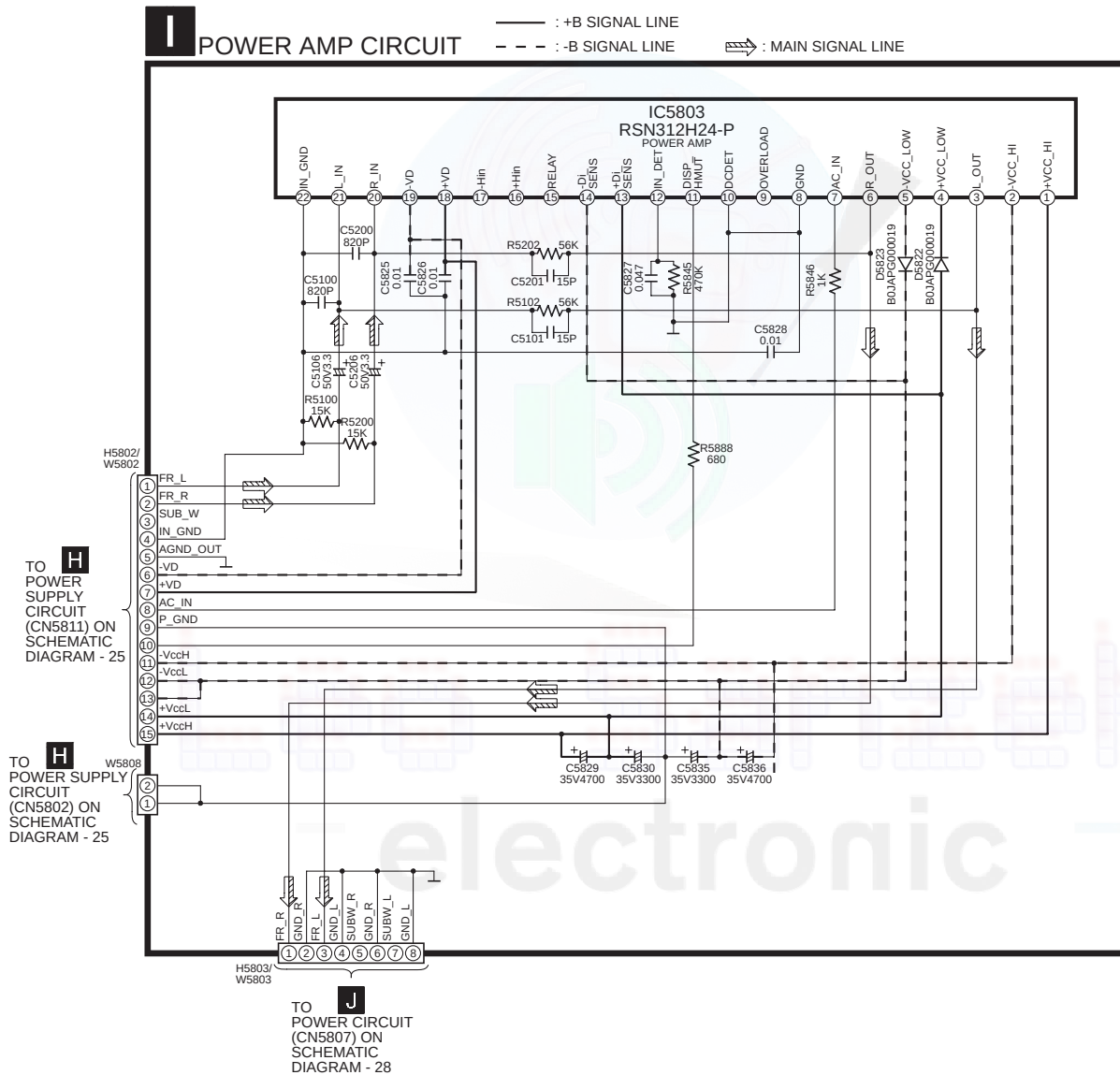
— — — — : -B SIGNAL LINE

 : MAIN SIGNAL LINE



## 20.7. (I) Power Amp Circuit

SCHEMATIC DIAGRAM - 26



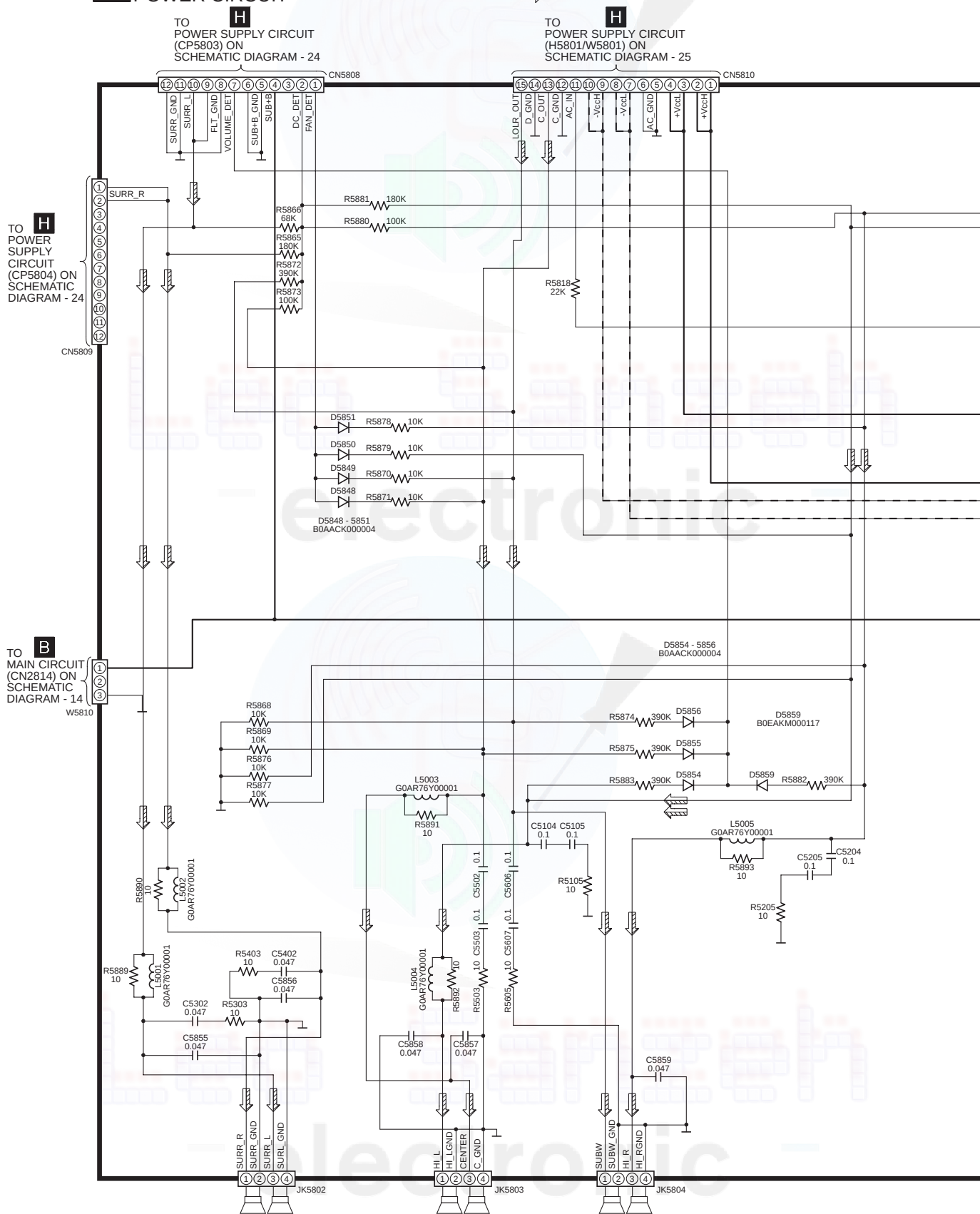
## 20.8. (J) Power Circuit

SCHEMATIC DIAGRAM - 27

**J** POWER CIRCUIT

———— : +B SIGNAL LINE

- - - - : -B SIGNAL LINE

 : MAIN SIGNAL LINE

**J** POWER CIRCUIT

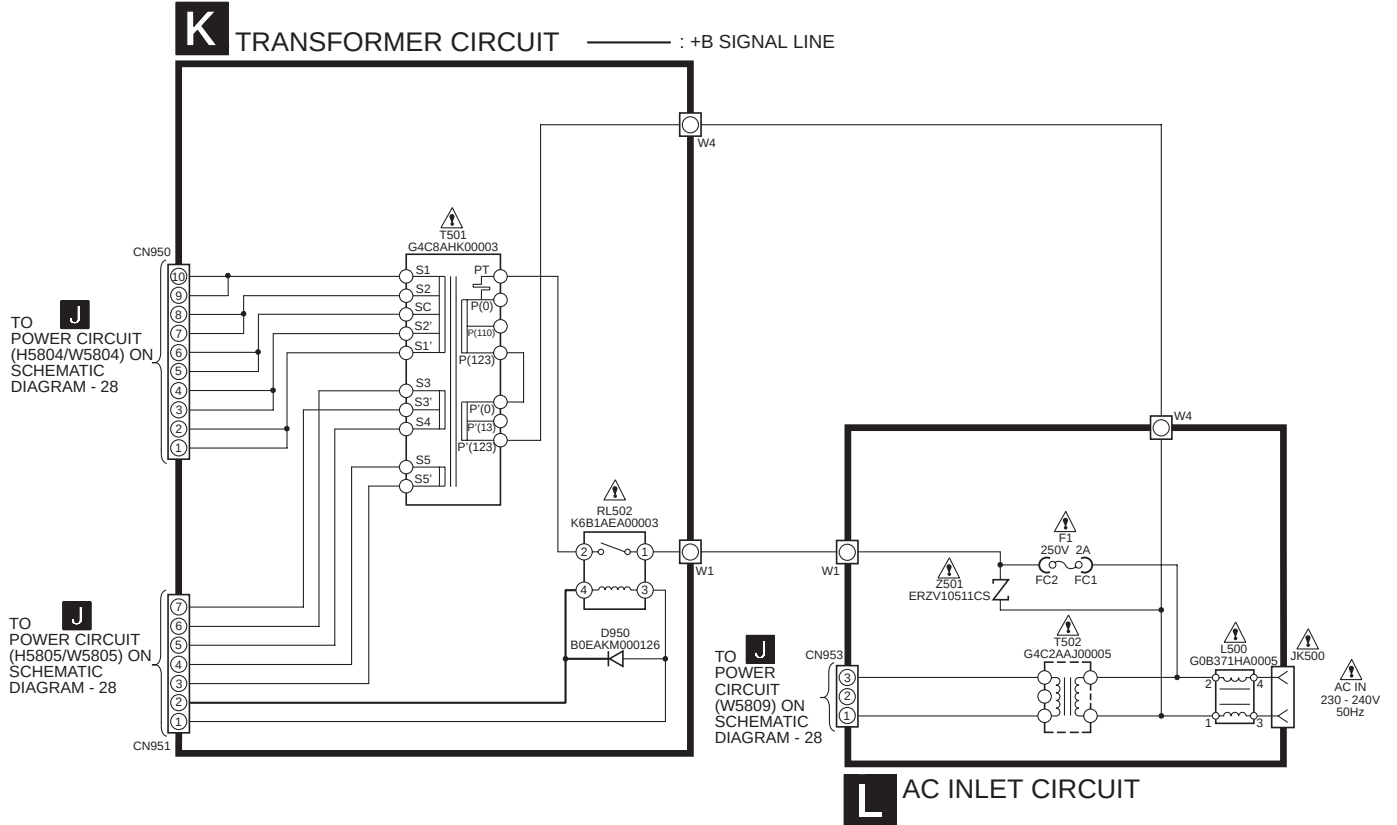
— — — — : -B SIGNAL LINE

 : MAIN SIGNAL LINE

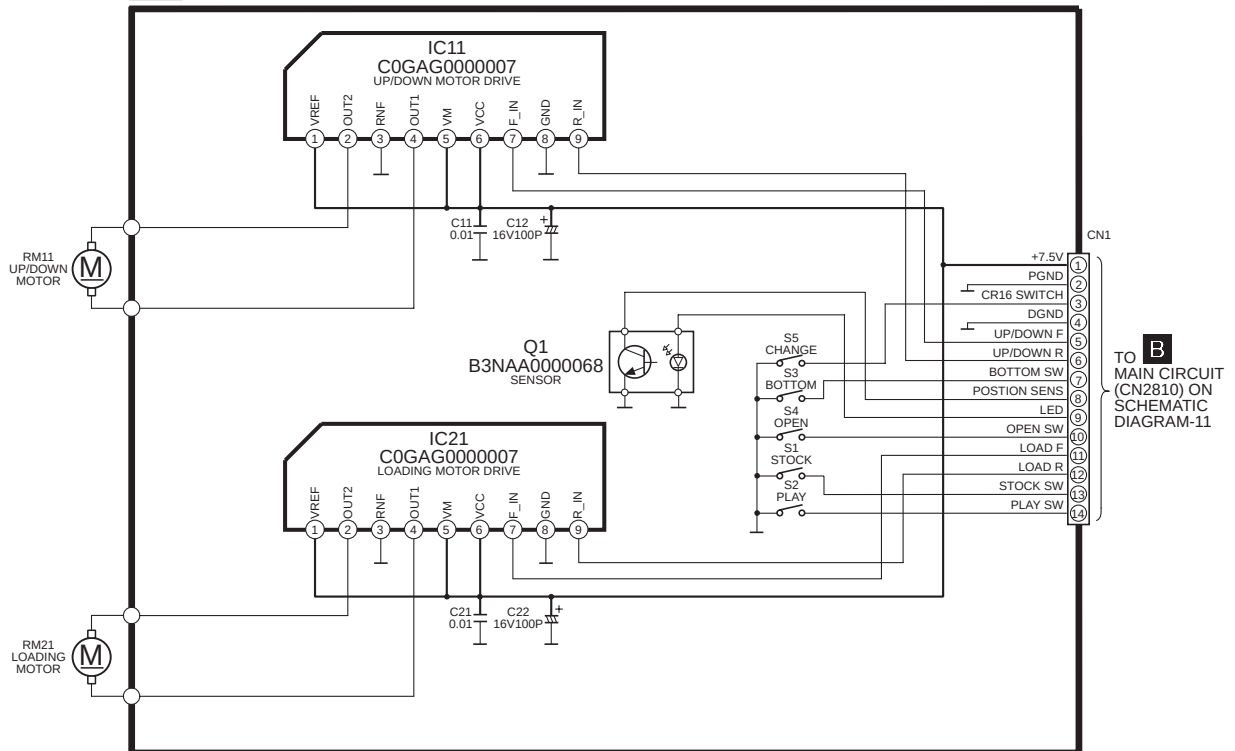


## 20.9. (K) Transformer Circuit, (L) AC Inlet Circuit & (M) CD Loading Circuit

SCHEMATIC DIAGRAM - 29



**M CD LOADING CIRCUIT**



### 21.1. (A) DVD Module P.C.B. (Side: A & B )



(REP3654Q)

FP8501

CP8251

CP8252

C8254

C8255

C8251

C8252

R8251

Q8552

Q8562

C8561

C8550

R8554

C8554

R8553

R8558

R8559

R8557

R8564

R8563

R8565

R8566

R8567

C8551

C8552

C8553

C8554

C8555

C8556

C8557

C8558

C8559

C8560

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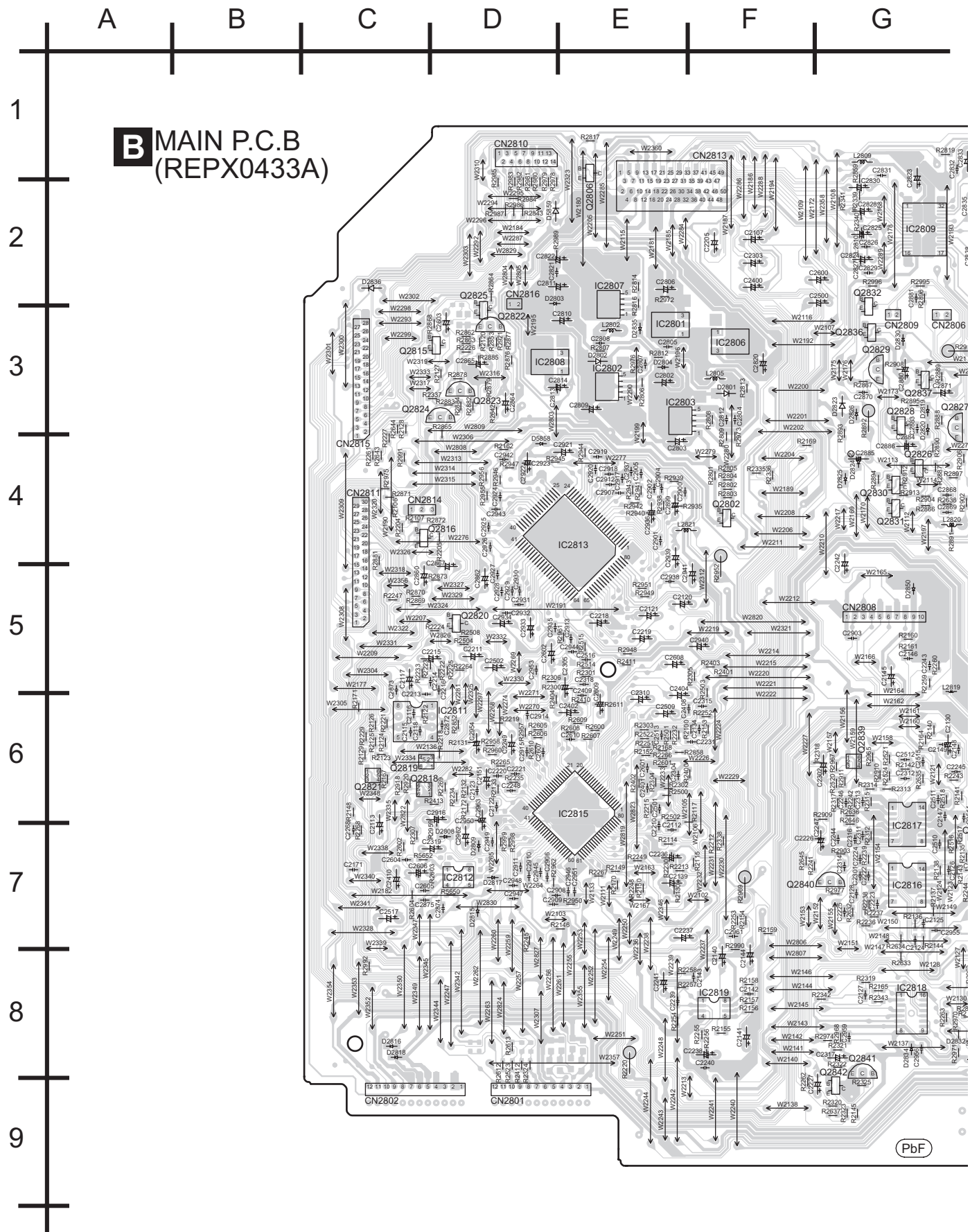
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C8980

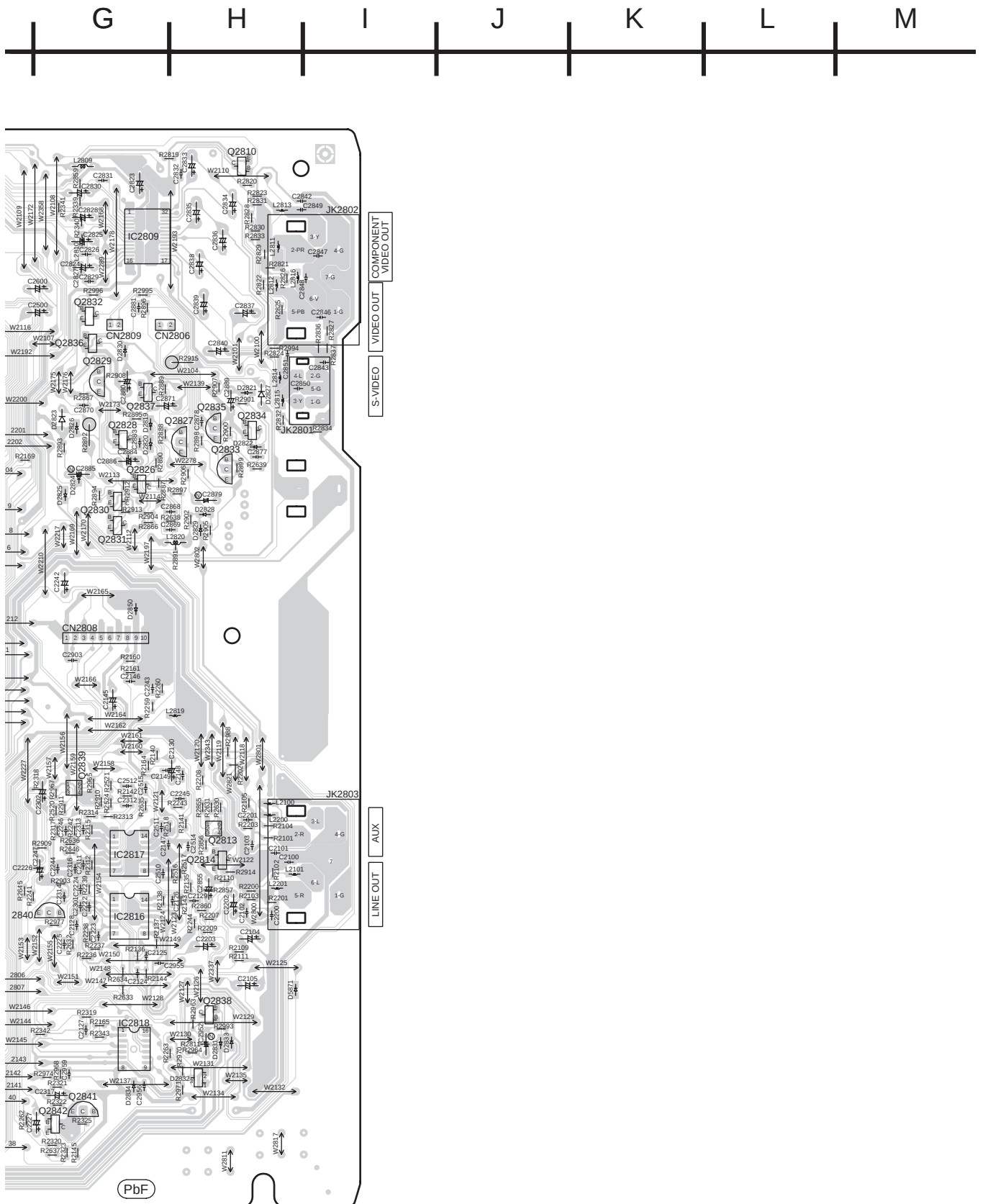
C8



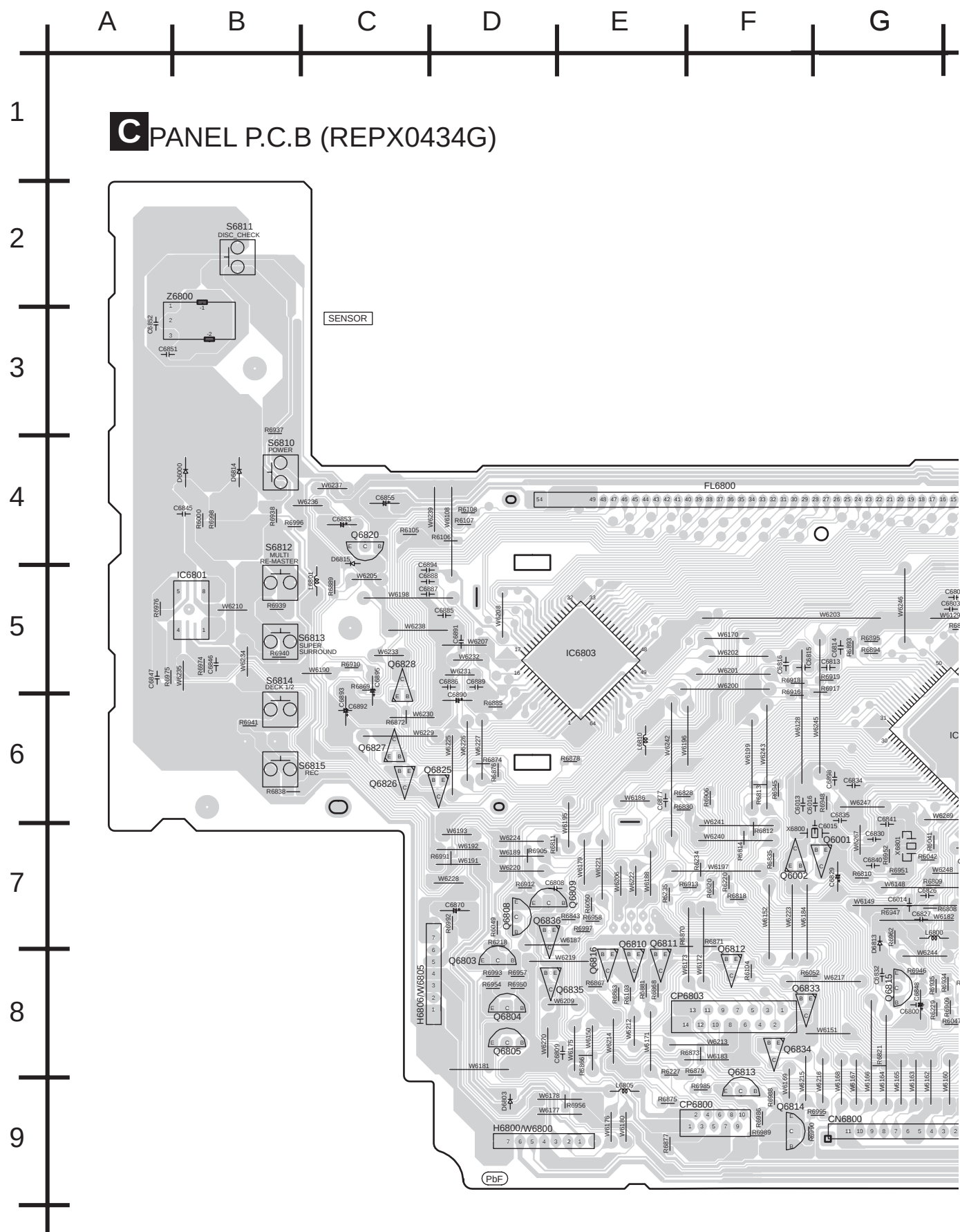
## 21.2. (B) Main P.C.B.

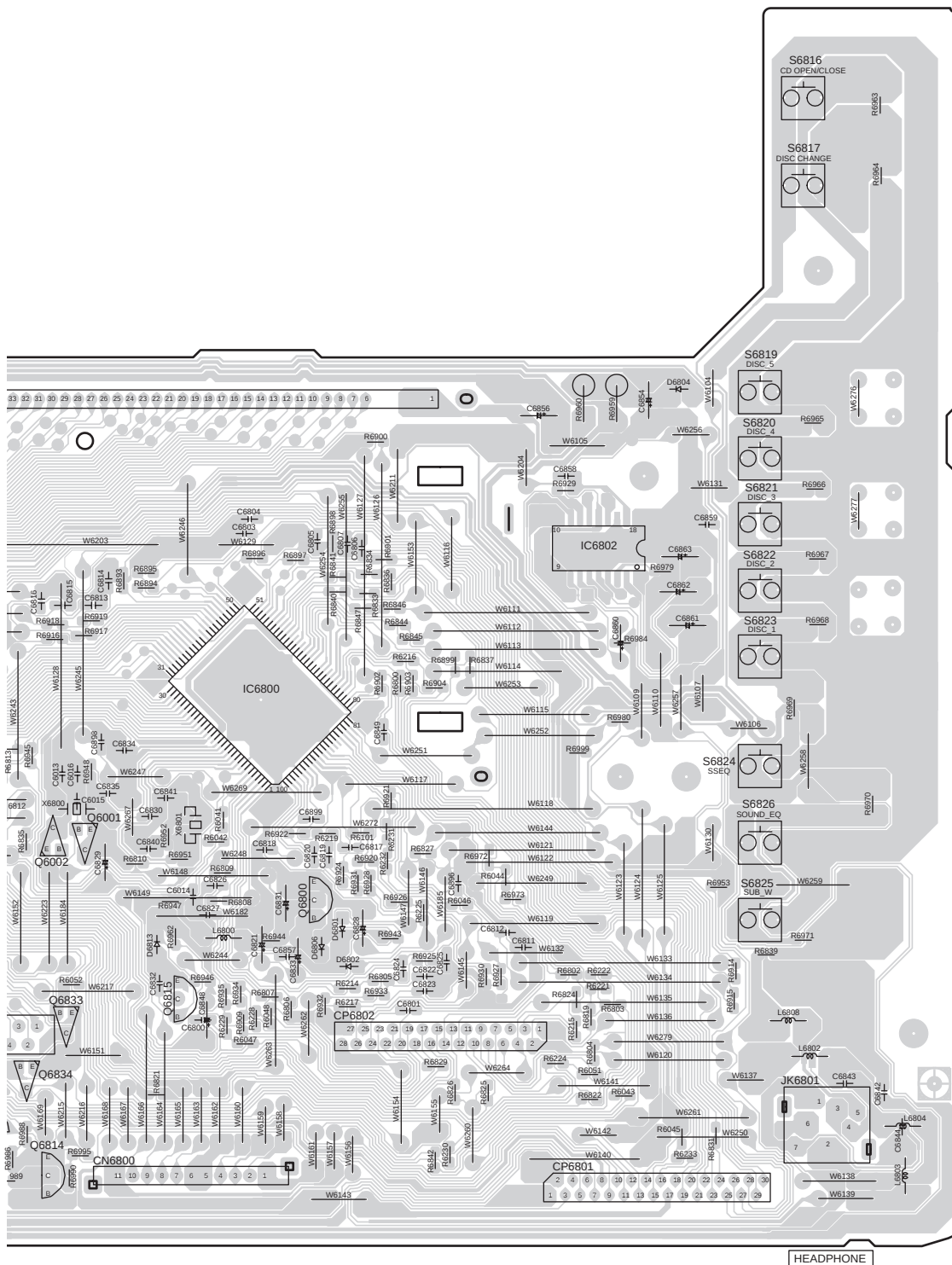






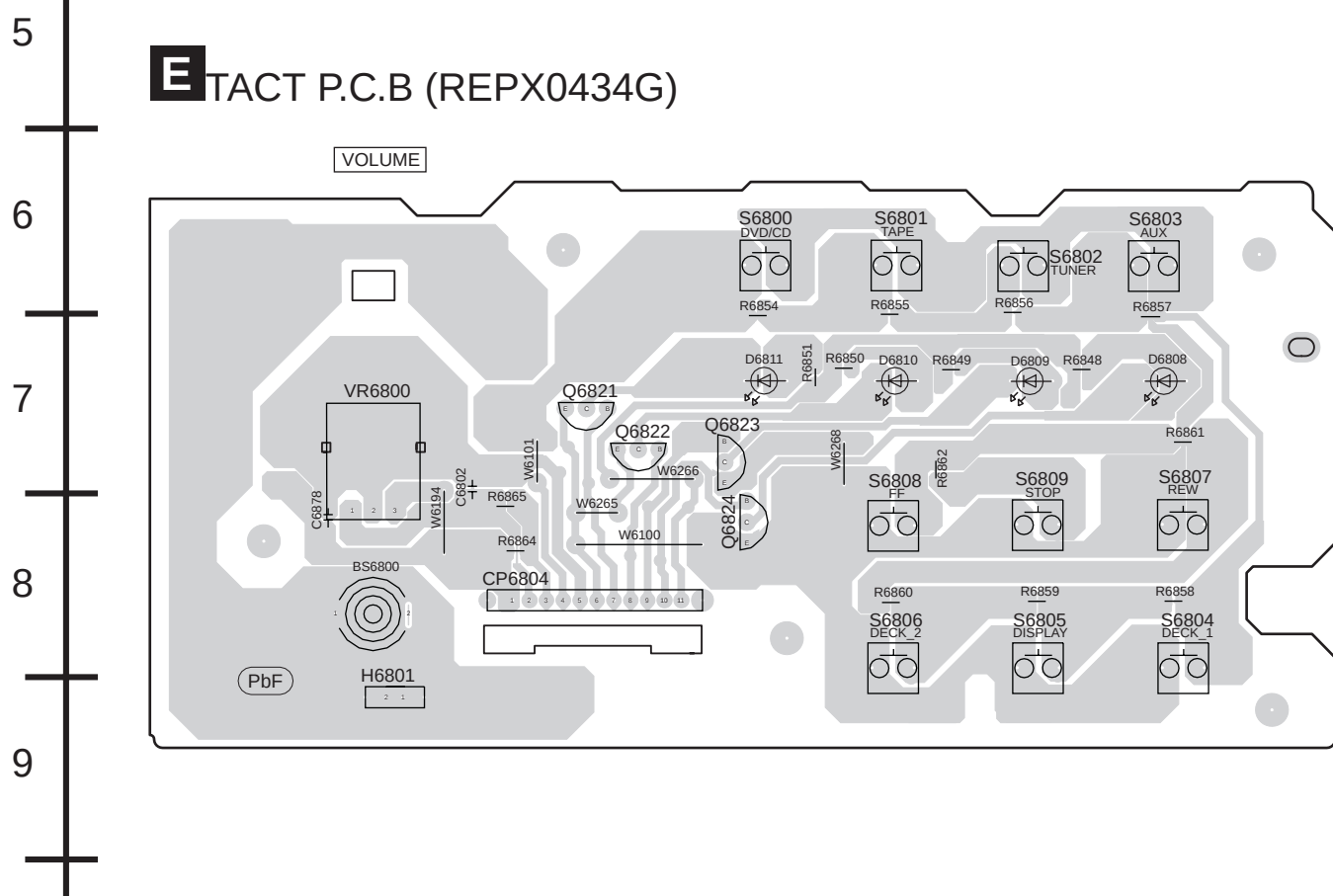
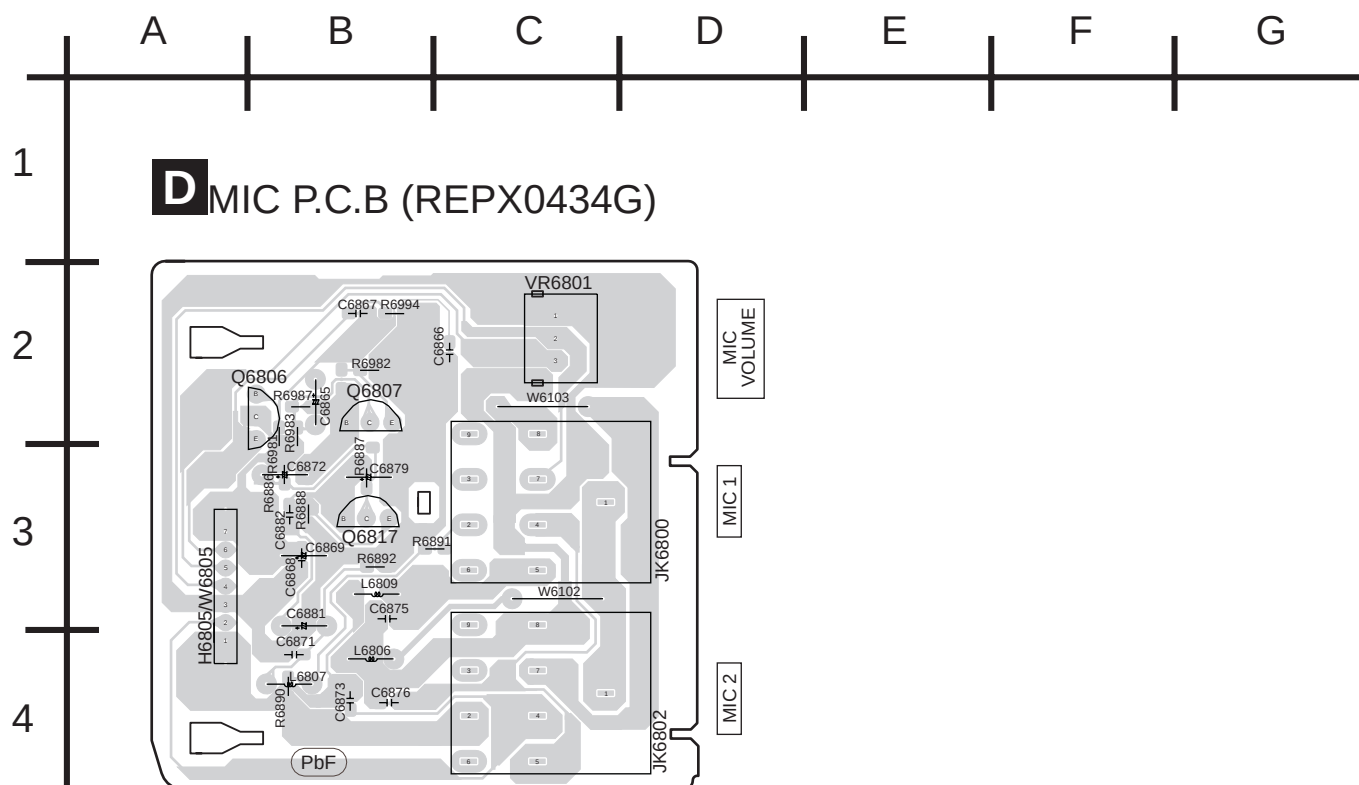
**21.3. (C) Panel P.C.B.**



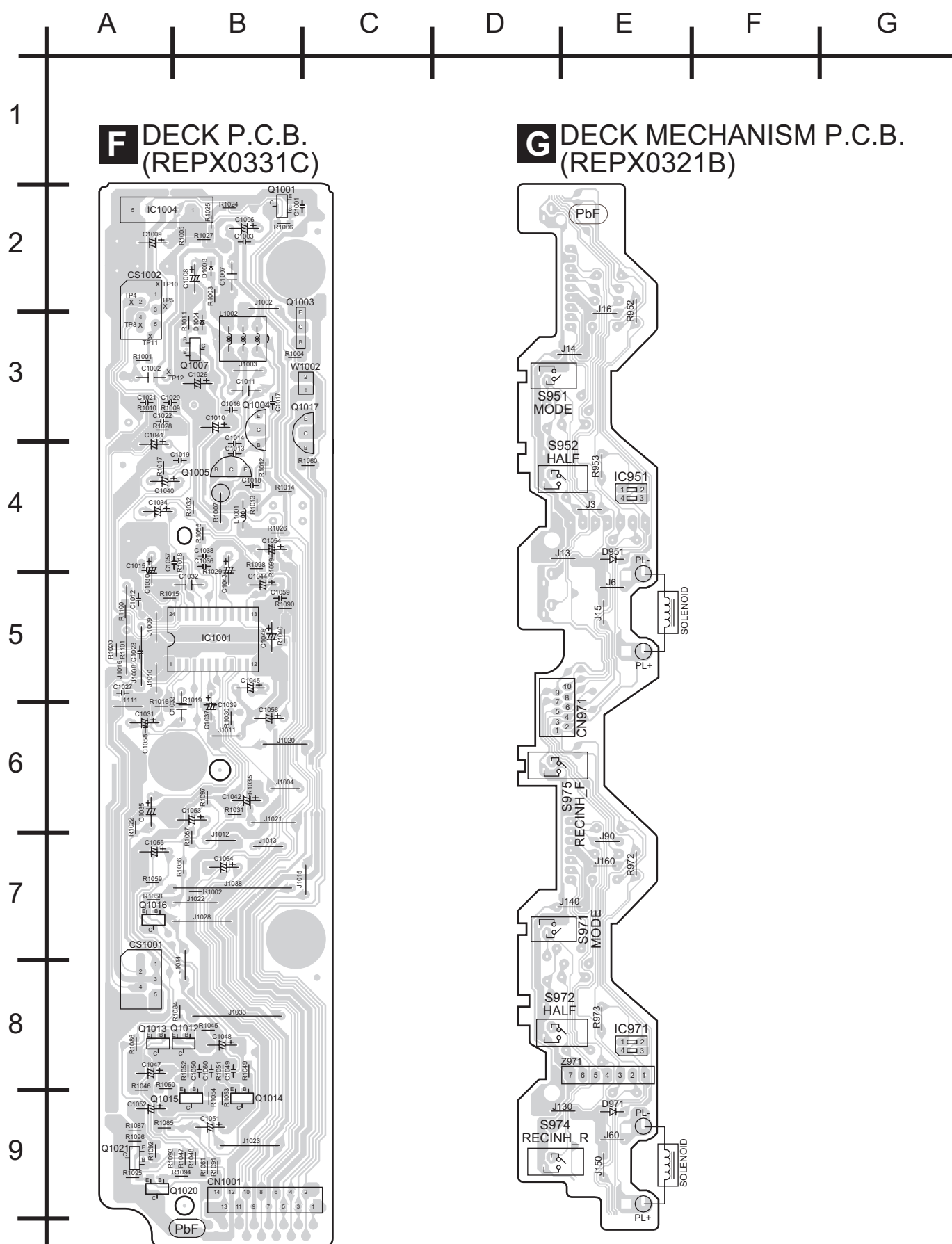


HEADPHONE

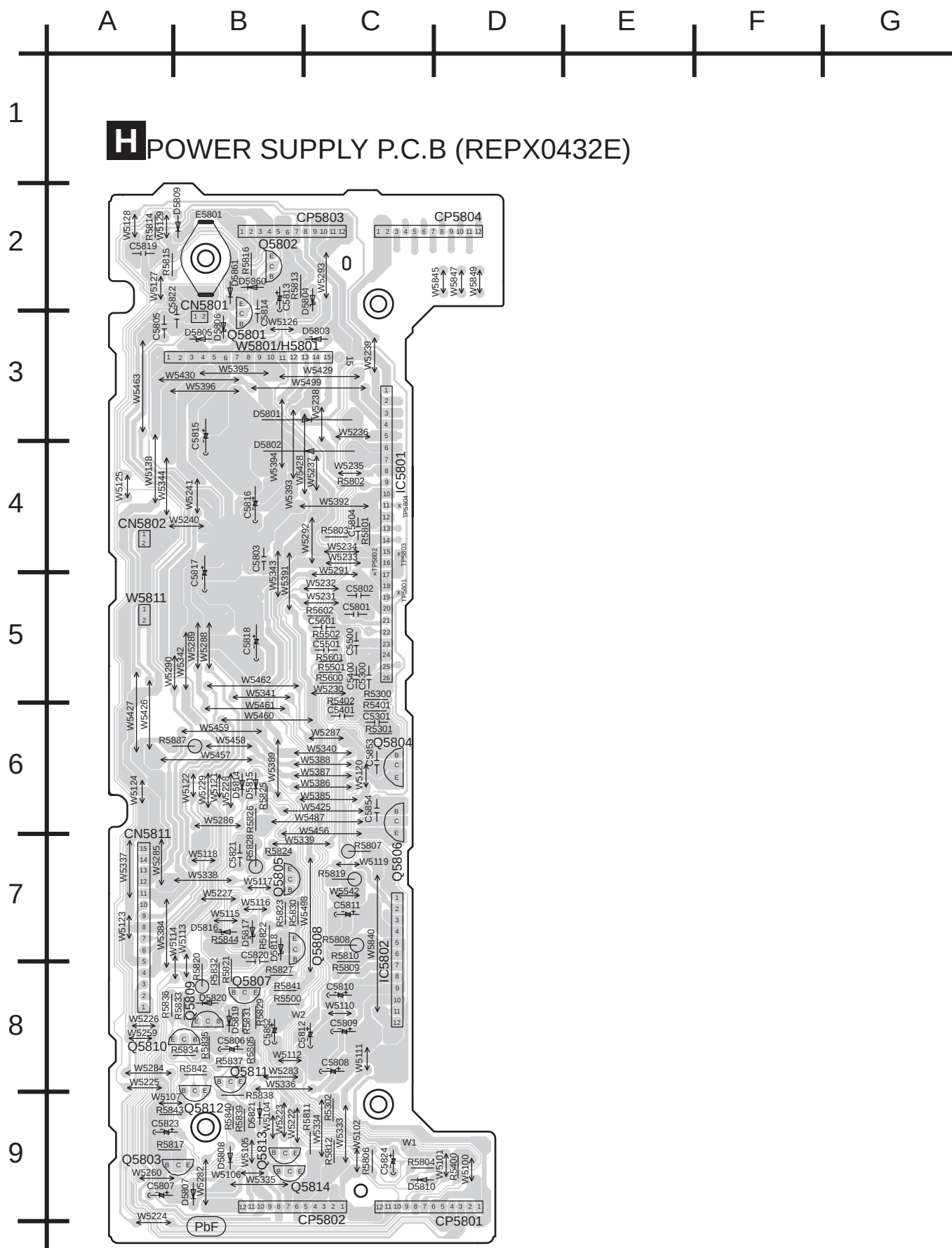
#### 21.4. (D) Mic P.C.B. & (E) Tact P.C.B.



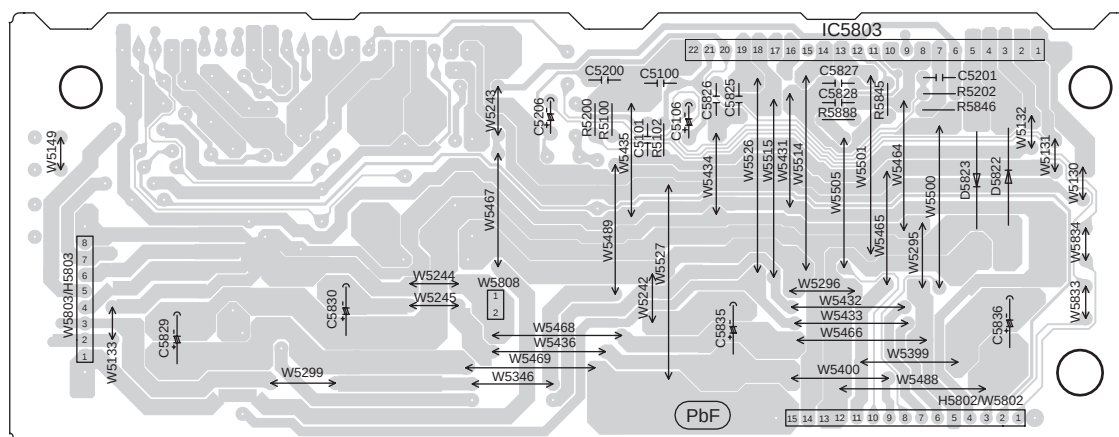
## 21.5. (F) Deck P.C.B. & (G) Deck Mechanism



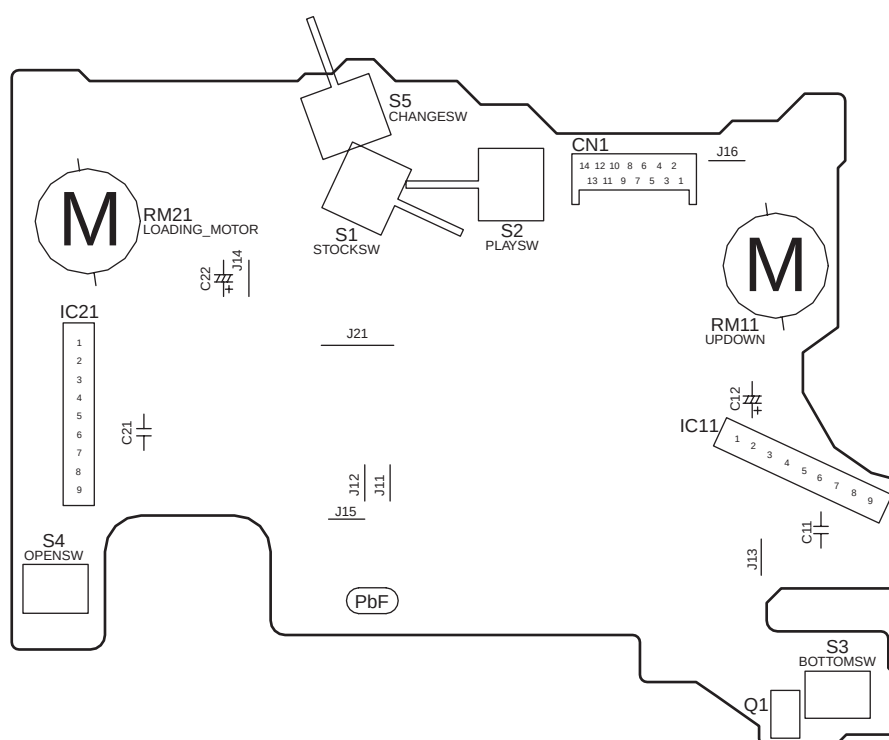
## 21.6. (H) Power Supply P.C.B.



### 21.7. (I) Power Amp P.C.B. & (M) CD Loading P.C.B.

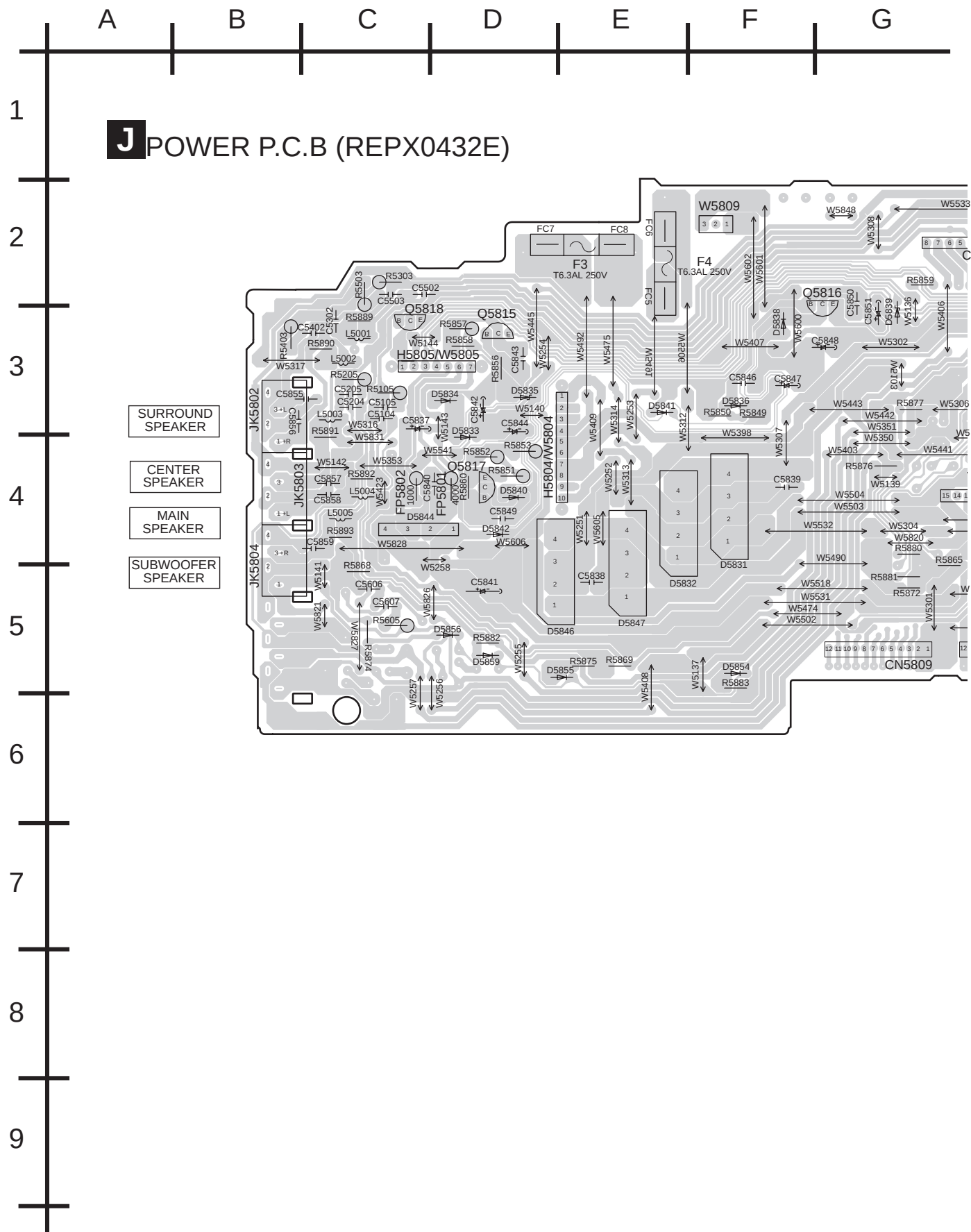


## M CD LOADING P.C.B (REP3569A)

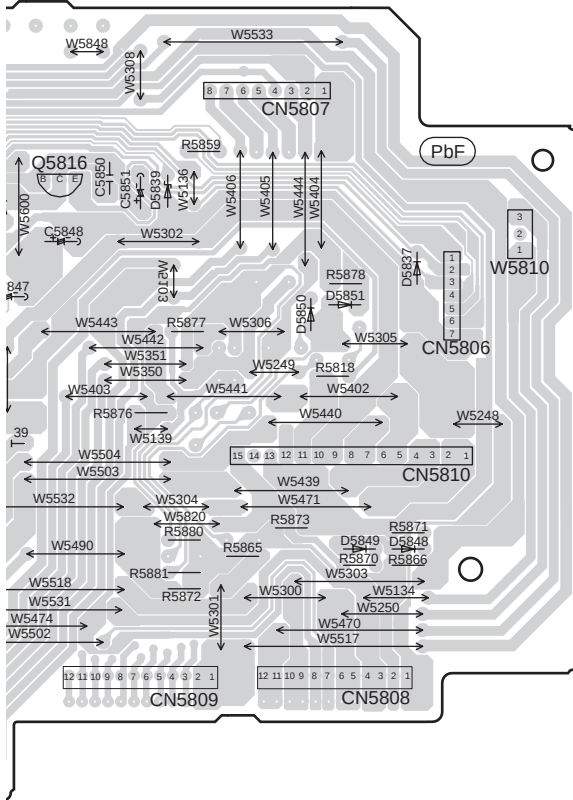
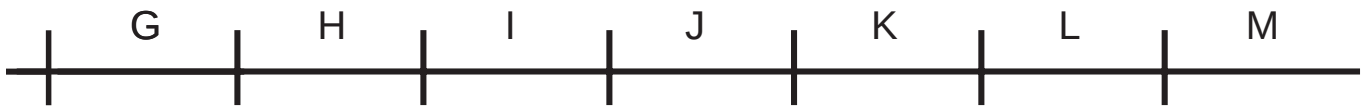




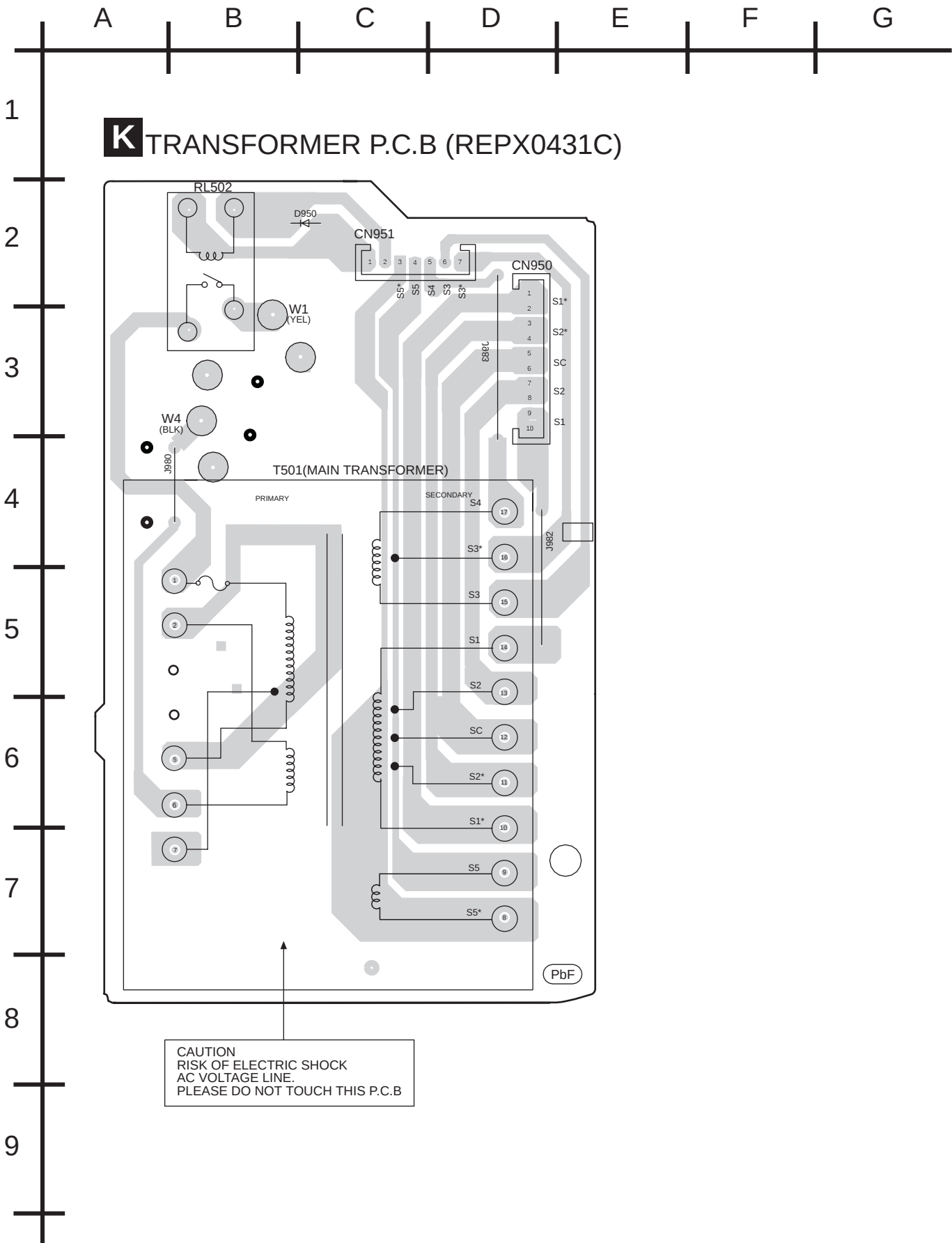
## 21.8. (J) Power P.C.B.



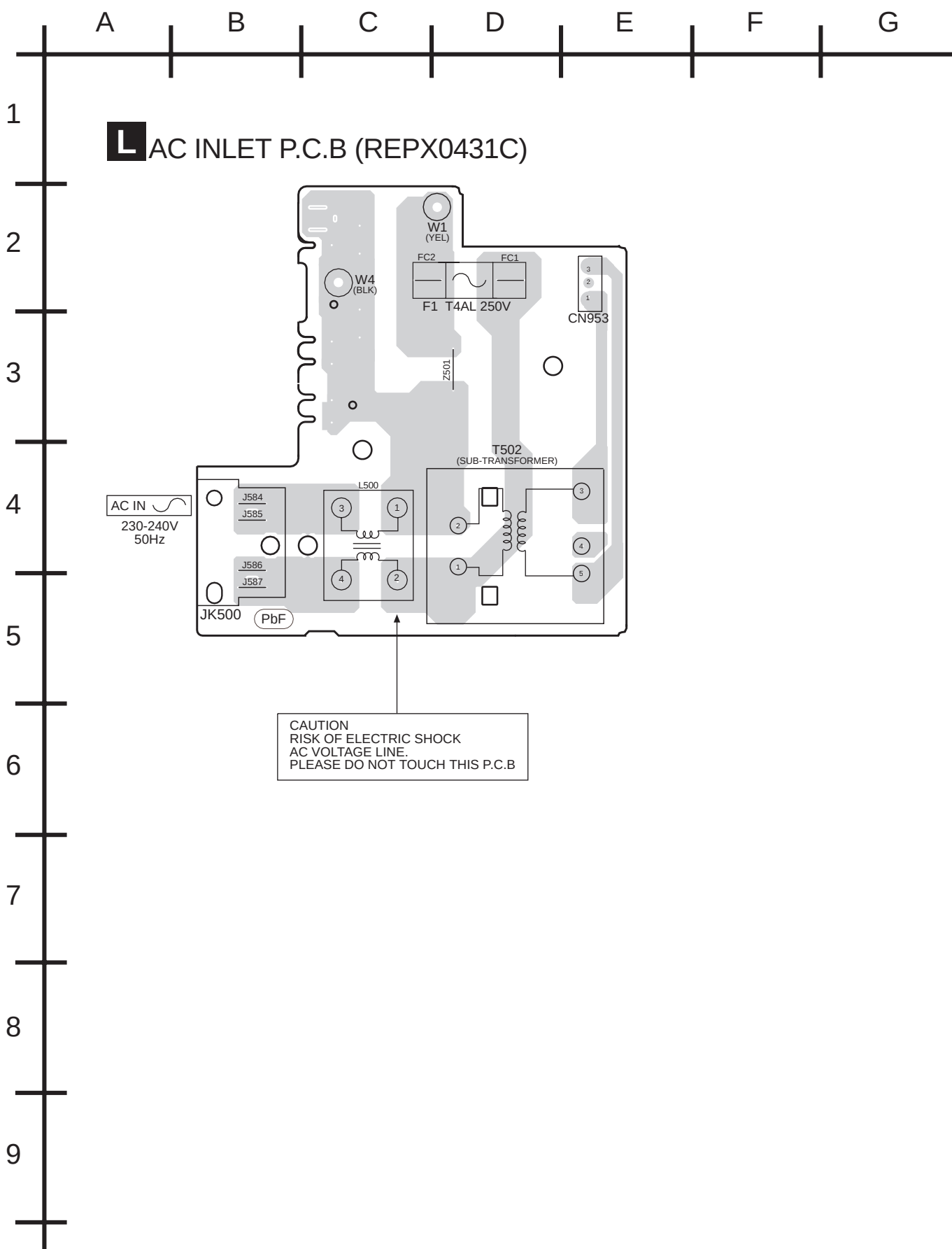




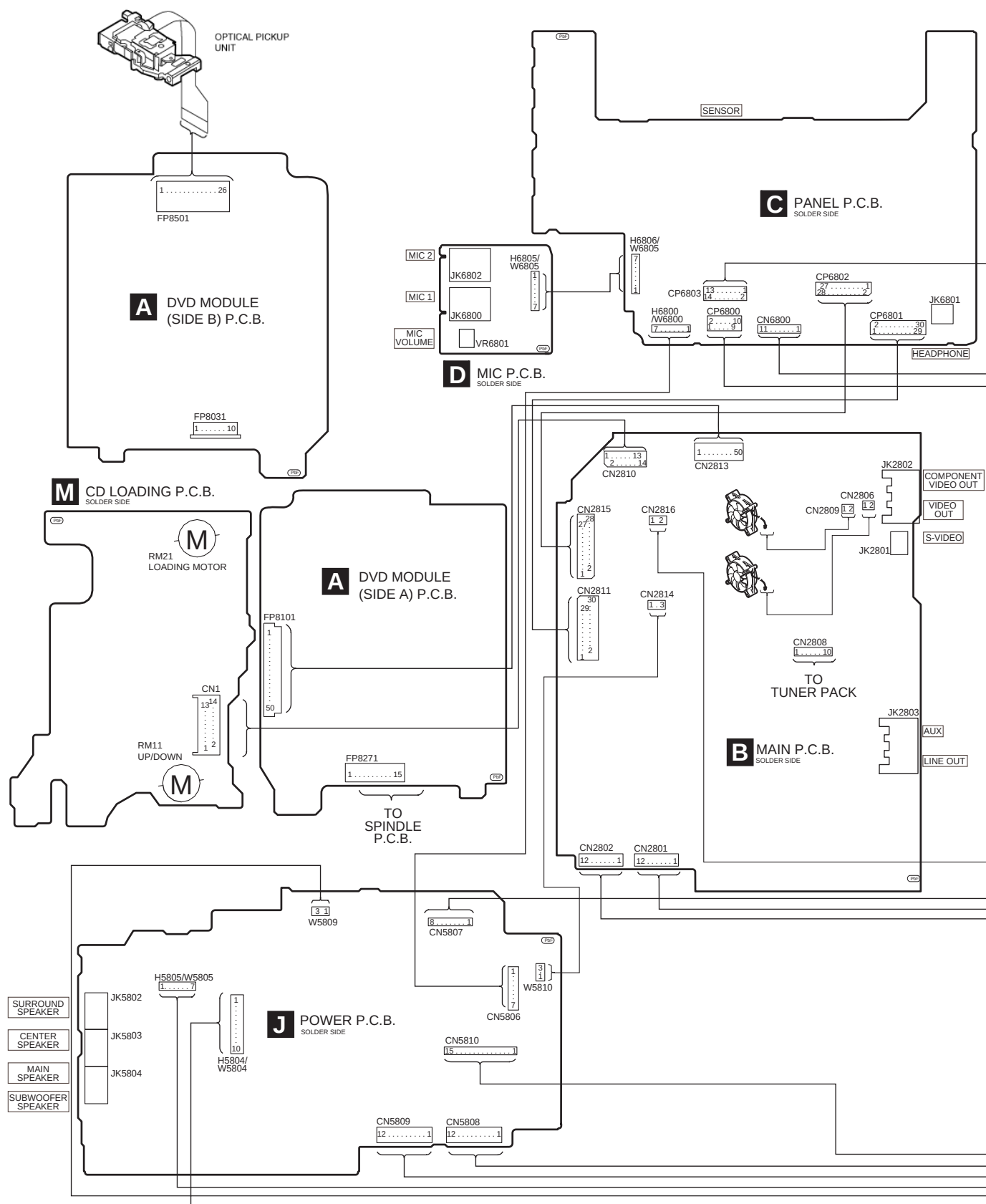
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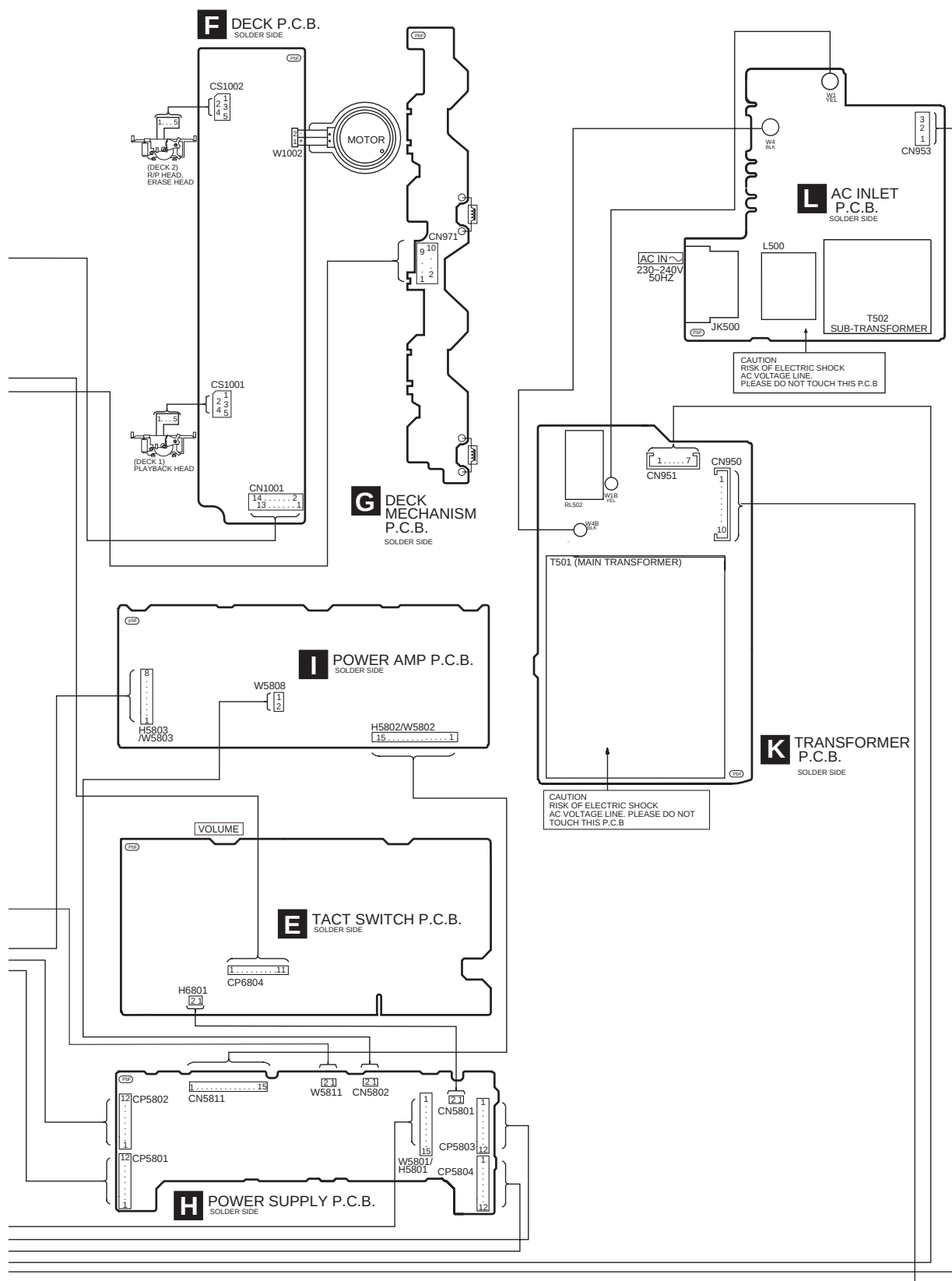


## 21.10. (L) AC Inlet P.C.B.

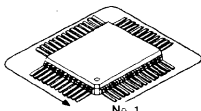
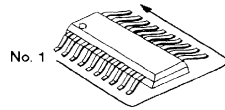
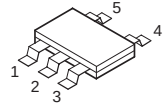
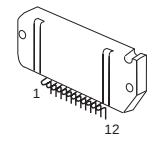
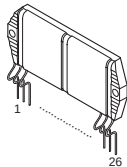
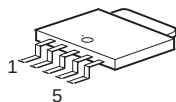
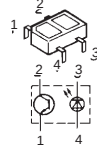
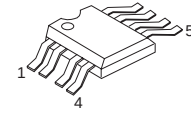
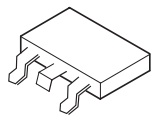
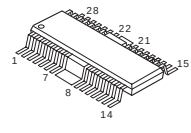
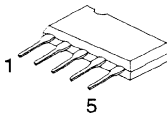
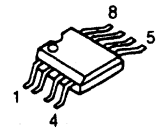
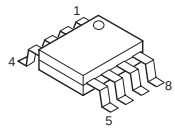
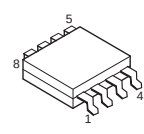
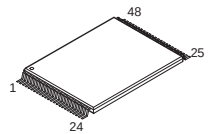
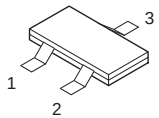
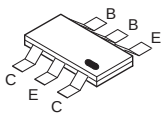
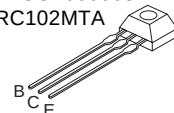
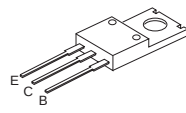
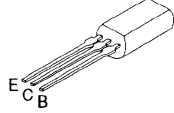
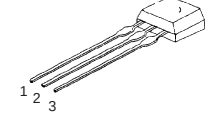
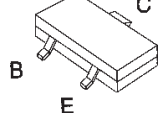
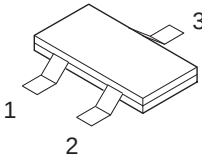
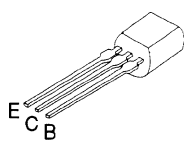
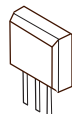
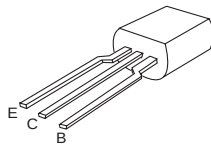
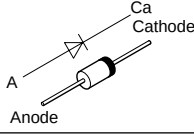
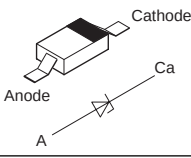
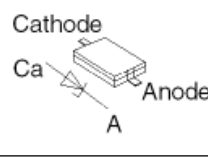
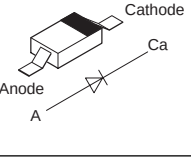
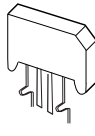
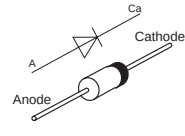
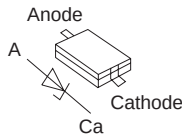
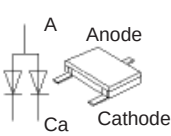
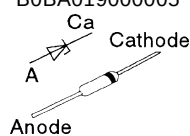
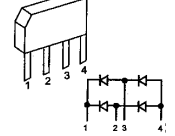
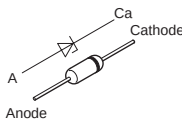
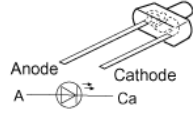
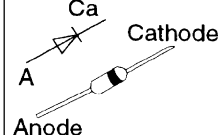
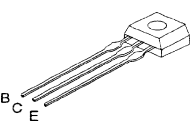


## 22 Wiring Connection Diagram





## 23 Illustration of ICs, Transistors and Diodes

|                                                                                                                                    |                                                                                     |                                                                                                                                              |                                                                                                                     |                                                                                                                       |                                                                                                       |                             |                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------------------|
| C0HBB0000039 (64P)<br>C0FBBK000036 (48P)<br>C1BB00000801 (80P)<br>C1BB00000845 (80P)<br>C2CBJG000460 (100P)<br>MN2DS0003APH (256P) |    | C1BB0000086(18P)<br>C9ZB00000377(32P)<br>KIA4558FEL(8P)<br>C3ABPG000063(54P)<br>C0GBF0000004 (16P)<br>AN7348S-E1 (24P)<br>C0JBAR000292 (16p) | No. 1<br>                          | C0EBE0000384<br>C0EBA0000031<br>C0JBAA000346                                                                          |                    | RSN312H24-P<br>C5BA00000113 |  |
| RSN309W44B                                                                                                                         | C0DBAZG00033 (5P)<br>C0DBEFG00003 (5P)                                              | CNB13030R2AU                                                                                                                                 | C0ABC000052 (14P)<br>C3EBDG000052                                                                                   | C0CBADG00005                                                                                                          | C0GBG0000044                                                                                          |                             |                                                                                     |
|                                                   |    |                                                             |                                    |                                    |                    |                             |                                                                                     |
| C1AA00000612                                                                                                                       | C0AABB000117                                                                        | C0CBCBD00018                                                                                                                                 | C3EBGZ000001                                                                                                        | RFKFMH81T160                                                                                                          | 2SD1819A0L                                                                                            |                             |                                                                                     |
|                                                   |    |                                                             |                                    |                                    |                    |                             |                                                                                     |
| B1GFGCAA0001                                                                                                                       | 2SC1740SSTA<br>B1ACCF000063<br>KRC102MTA                                            | B1BCCG000021                                                                                                                                 | 2SD21370PA                                                                                                          | B1BAAJ000003                                                                                                          | 2SB1219AHL                                                                                            |                             |                                                                                     |
|                                                   |    |                                                             |                                    |                                    |                    |                             |                                                                                     |
| B1GBCFJN0021<br>B1ABCF000131<br>B1GDCFGA0014<br>B1GBCFJA0015<br>B1ABEB000001<br>B1GBCFJJ0039<br>2SB09700RL                         | B1ADCF000001<br>B1ABCF000011<br>B1GDCFJJ0023<br>UNR511V00L<br>UNR521100L            |                                                            | KTA12710YTA<br>2SB621ARSTA<br>B1ACCL000012<br>B1ACCL000010<br>2SD0592ARA                                            |                                   | 2SD1859QRTV2<br> |                             |                                                                                     |
| B1GCCFJJ0015<br>B1GACFLL0007<br>B1GCCFGA0005<br>B1AACF000065<br>B1AARC000002                                                       |  | B0EAKM000117<br>B0BC01000014<br>B0EAKM000125<br>          | B0BC7R500001<br>B0BC5R000009<br> | B0ACCK000005<br>B0BC3R700004<br> | B0ACCE000003<br> |                             |                                                                                     |
| B0FBAM000009                                                                                                                       | B0JAPG000019                                                                        | B0BC5R600003                                                                                                                                 | B0ADCJ000020                                                                                                        | B0BA03100002<br>B0BA019000005                                                                                         | B0EBNL000004                                                                                          |                             |                                                                                     |
|                                                 |  |                                                           |                                  |                                  |                  |                             |                                                                                     |
| B0BA7R000005                                                                                                                       | B3AAA0000583                                                                        | B0AACK00004<br>MA2C16500E<br>M12J72800L                                                                                                      | KTC3199GRTA<br>B1AAGC000007                                                                                         |                                                                                                                       |                                                                                                       |                             |                                                                                     |
|                                                  |  |                                                           |                                  |                                                                                                                       |                                                                                                       |                             |                                                                                     |

## 24 Terminal Function of IC

### 24.1. IC6800 (C2CBJG000486) System Microprocessor

| Pin No. | Mark            | I/O | Function                                             |
|---------|-----------------|-----|------------------------------------------------------|
| 1       | ST_SW           | I   | Stock switch of changer                              |
| 2       | OP/CL_REV       | O   | Reverse control signal for OPEN/CLOSE motor          |
| 3       | OP/CL_FWD       | O   | Forward control signal for OPEN/CLOSE motor          |
| 4       | OPEN_SW         | I   | Signal from Rotary tray OPEN switch                  |
| 5       | POSITION        | I   | Signal from of Position Detection sensor             |
| 6       | MBP1            | O   | Micon Beat Proof 1                                   |
| 7       | MBP2            | O   | Micon Beat Proof 2                                   |
| 8       | BYTE            | I   | VSS (Gnd)                                            |
| 9       | CNVss           | -   | VSS (GND) The only Pull High Pin                     |
| 10      | XCIN            | -   | Sub Clock Input (32.768 kHz)                         |
| 11      | XCOU            | -   | Sub Clock Output (32.768 kHz)                        |
| 12      | RESET           | I   | System Reset Input                                   |
| 13      | XOUT            | -   | Main Clock Output (10 MHz)                           |
| 14      | VSS             | -   | GND (0V)                                             |
| 15      | XIN             | -   | Main Clock Input (10 MHz)                            |
| 16      | VCC             | -   | Power Supply (5V)                                    |
| 17      | NMI             | I   | Connect to VCC, External Interrupt I/P               |
| 18      | RMT             | I   | Remocon Input                                        |
| 19      | SYNC            | I   | AC Failure Detect Input                              |
| 20      | UP/DOWN_R       | O   | Changer Motor 2 Reverse Control                      |
| 21      | CHANGE_SW       | I   | changer Change Switch                                |
| 22      | BOTTOM_SW       | I   | Changer Bottom Switch                                |
| 23      | N.C.            | -   | No Connection                                        |
| 24      | LED1            | O   | Port to Control LED1 (DVD/D)                         |
| 25      | LED2            | O   | Port to Control LED2 (TAPE)                          |
| 26      | UP/DOWN_F       | O   | Changer Motor 2 Forward Control                      |
| 27      | TU_SD           | I   | Signal DET Input from Tuner                          |
| 28      | TU_ST_DO        | I   | Stereo Indicator from Tuner/DO-OUTPUT of Tuner IC    |
| 29      | TU_SCL(PLL_CLK) | O   | I2C Clock for Tuner (Clock Signal for the PLL Tuner) |
| 30      | TU_SDA(PLL_DA)  | O   | I2C Data for Tuner (PLL DATA - DI INPUT of Tuner)    |
| 31      | PHOTO_2         | I   | Deck 2 Photo Detection                               |
| 32      | PHOTO_1         | I   | Deck 2 Photo Detection                               |
| 33      | BP              | O   | AM Beat Proof 1 (Active 1)                           |
| 34      | 1_H             | I   | H WHEN Deck 1 Playback Head is Selected              |
| 35      | DVD_CMD         | O   | CMD signal for the DVD Module                        |
| 36      | DVD_STA         | I   | STATUS signal from the DVD Module                    |
| 37      | DVD_CLK         | I   | CLK signal for the DVD Module                        |
| 38      | EDA             | O/I | DATA Signal for the EEPROM                           |
| 39      | ECLK            | O   | CLOCK Signal for the EEPROM                          |
| 40      | ECA             | O   | LAT Signal for the EEPROM                            |

| Pin No. | Mark      | I/O | Function                                              |
|---------|-----------|-----|-------------------------------------------------------|
| 41      | EPM       | I   | For Flash                                             |
| 42      | FLD_RST   | O   | Reset Signal for the FL Driver                        |
| 43      | FLD_CS    | O   | Latch Signal for the FL Driver                        |
| 44      | DVD_MUTE  | I   | Signal from DVD Module control mute circuit           |
| 45      | FLD_DA    | O   | Data input for the FL Driver                          |
| 46      | FLD_CK    | O   | Clock Signal for the FL Driver                        |
| 47      | WIDE_1    | O   | S-Video output control                                |
| 48      | ASP_DA    | O   | DATA signal for 6ch VOL ASP                           |
| 49      | ASP_CK    | O   | CLOCK signal for 6ch VOL ASP                          |
| 50      | PLUNGER_1 | O   | Deck 1 Plunger Control (L=OFF, H=ON)                  |
| 51      | DMT       | O   | Deck Mute at Mecha Transition (H=Mute Off, L=Mute On) |
| 52      | KA_LAT    | O   | Karaoke Latch                                         |
| 53      | KA_DAT    | O   | Karaoke Data                                          |
| 54      | KA_CLK    | O   | Karaoke Clock                                         |
| 55      | MUTE_L    | O   | Mute control of Lout                                  |
| 56      | MUTE_H    | O   | HIC MUTE                                              |
| 57      | HP_MUTE   | O   | Head Phone Mute signal                                |
| 58      | MUTE_C    | O   | Port for Mute control of Center                       |
| 59      | MUTE_SR   | O   | Port for Mute Control of SL/SR                        |
| 60      | SUB_MUTE  | O   | Subwoofer Mute Signal                                 |
| 61      | MUTE_A    | O   | Mute Control for FL/FR                                |
| 62      | VCC       | -   | POWER SUPPLY 5.0V                                     |
| 63      | SURR_C    | O   | Surround Control Port                                 |
| 64      | VSS       | -   | GND (0V)                                              |
| 65      | SP_A      | O   | Control Speana IC's port A                            |
| 66      | SP_B      | O   | Control Speana IC's port B                            |
| 67      | SP_C      | O   | Control Speana IC's port C                            |
| 68      | DVD_PCNT  | O   | Control Signal for the Power for the DVD Module       |
| 69      | N.C.      | O   | No Connection                                         |
| 70      | PCONT     | O   | Control Signal for the Power Control Relay            |
| 71      | REC       | O   | Deck Recording Control (Recording = L)                |
| 72      | DC_DET    | I   | Signal from the DC Detection circuit                  |
| 73      | VMUTE     | O   | Control Signal for Video Output                       |
| 74      | MOTOR     | O   | Deck Motor Control (L=OFF, H=ON)                      |
| 75      | JOG_B     | I   | Signal B from Volume JOG                              |
| 76      | JOG_A     | I   | Signal A from Volume JOG                              |
| 77      | PARTY     | O   | Party output For Analog Surround Active L (DSP_CLK)   |
| 78-79   | N.C.      | -   | No Connection                                         |
| 80      | PLUNGER_2 | O   | Deck 2 Plunger Control (L=OFF, H=ON)                  |
| 81      | DEMOCAL   | I   | Control for DEMO function                             |
| 82      | SFC       | O   | SFC Out for Analog Surround (Active L)                |
| 83      | MODEL_CTL | I   | To select Model when power on (VK71=L, VK81/91=H)     |
| 84      | LED3      | O   | Port to control LED3 (TUNER)                          |
| 85      | LED4      | O   | Port to control LED4 (AUX)                            |
| 86-88   | N.C.      | -   | No Connection                                         |

| Pin No. | Mark       | I/O      | Function                                |
|---------|------------|----------|-----------------------------------------|
| 89      | DECK_AD1   | A/D<br>I | Deck AD Input 1 (Mode 1/Half 1)         |
| 90      | DECK_AD2   | A/D<br>I | Deck AD Input 2 (RINH/MODE2/RINH/HALF2) |
| 91      | KEY3       | I        | Key 3 line input                        |
| 92      | KEY2       | I        | Key 2 line input                        |
| 93      | DES3       | I        | REGION Setting for DVD                  |
| 94      | SPEANA_A/D | A/DI     | Connect to Speana IC's OUT port         |
| 95      | DES1       | I        | REGION Setting for DVD (Tuner Region)   |
| 96      | AVSS       | -        | ANALOG POWER SUPPLY INPUT               |
| 97      | KEY1       | I        | Key 1 line input                        |
| 98      | VREF       | -        | REFERENCE VOLTAGE INPUT                 |
| 99      | AVCC       | -        | ANALOG POWER SUPPLY INPUT               |
| 100     | PLAY_SW    | I        | Play Switch                             |



# 25 Parts Location and Replacement Parts List

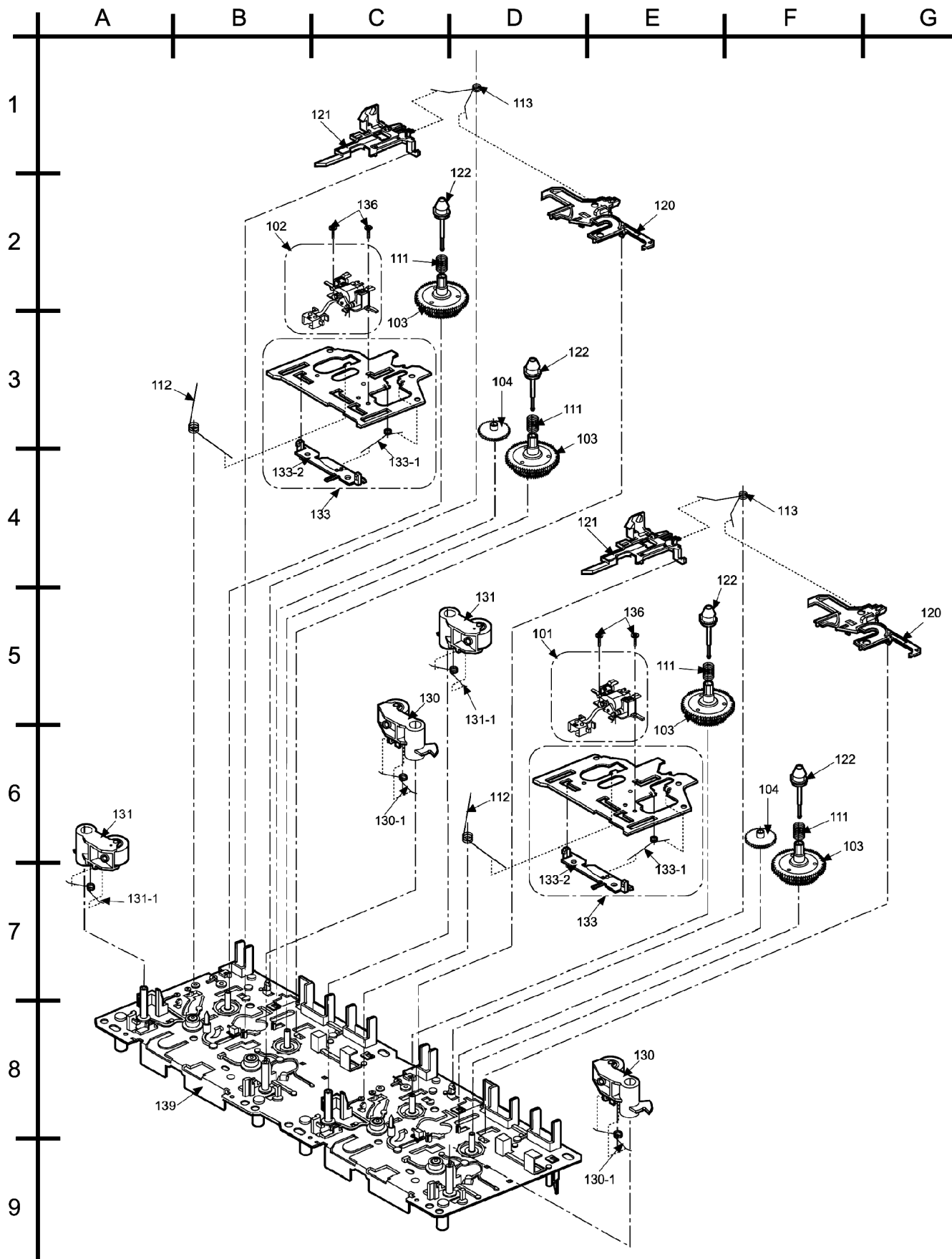
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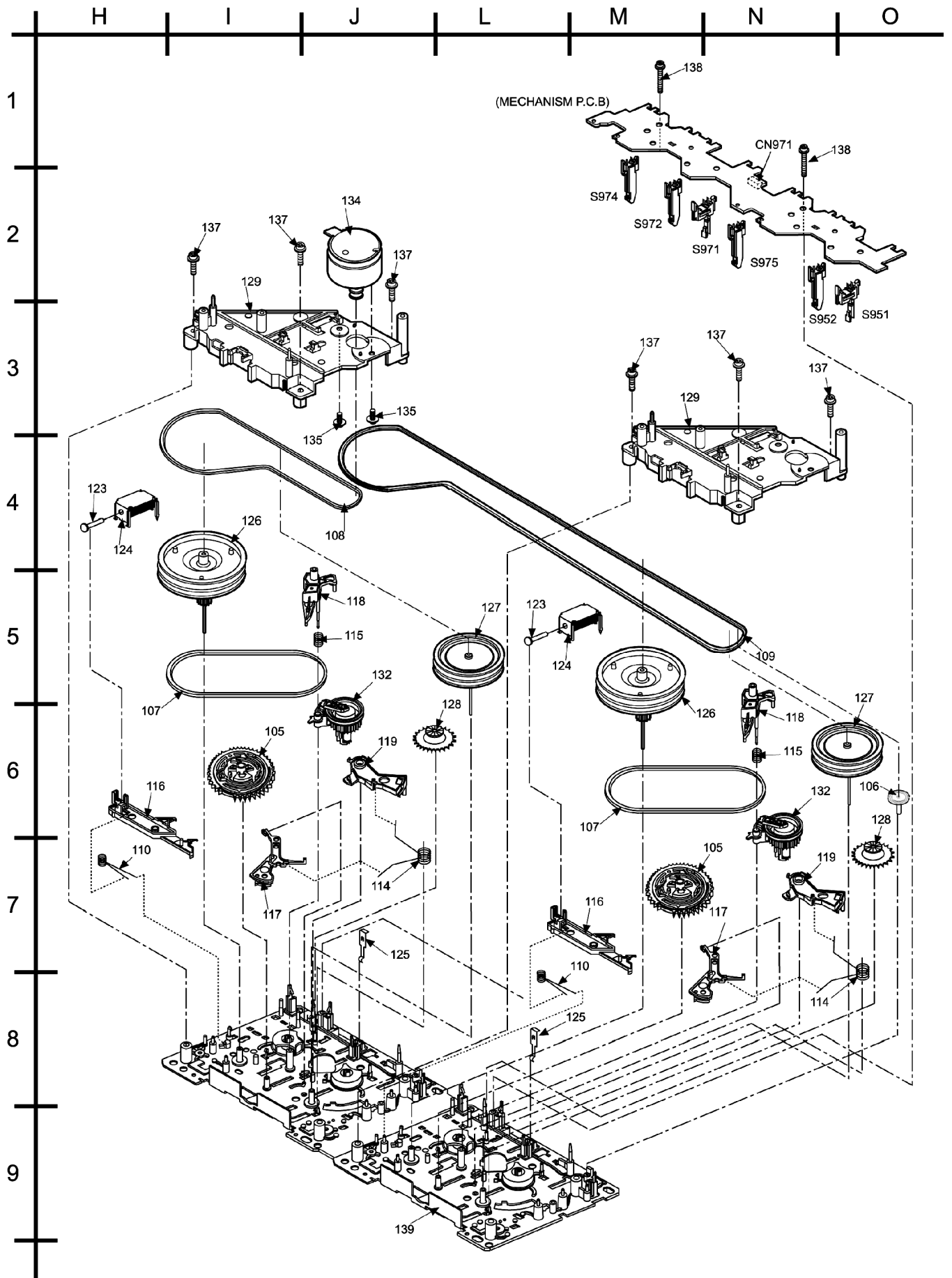
- Important safety notice:  
Components identified by  $\triangle$  mark have special characteristics important for safety.  
Furthermore, special parts which have purposes of fire-retardent (resistors), high-quality sound (capacitors), low noise (resistors), etc are used.  
When replacing any of these 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 ( $\mu$ 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         |      |         |      |         |      |                     |

## 25.1. Deck Mechanism (RAA3412-S)

### 25.1.1. Deck Mechanism Parts Location



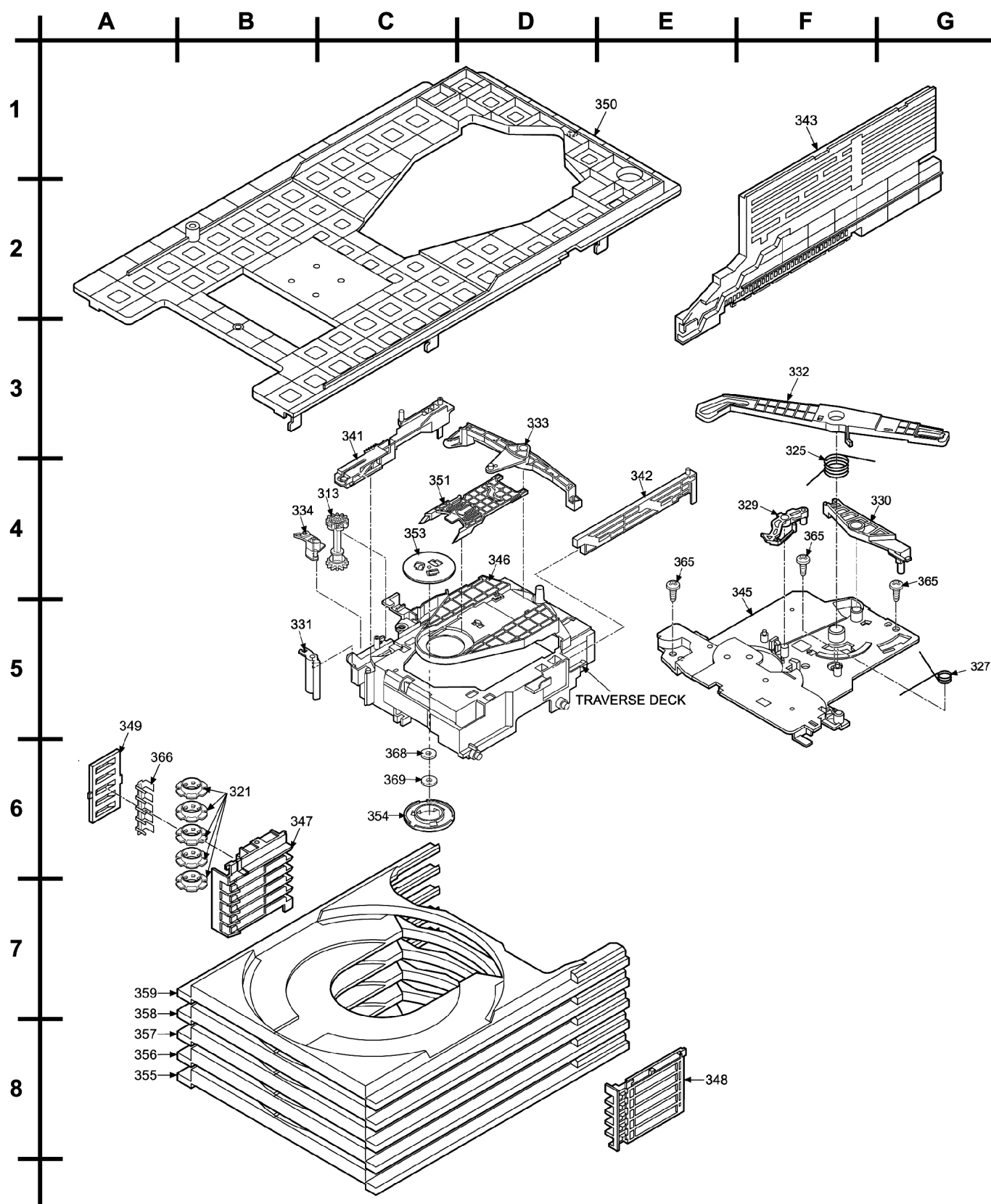


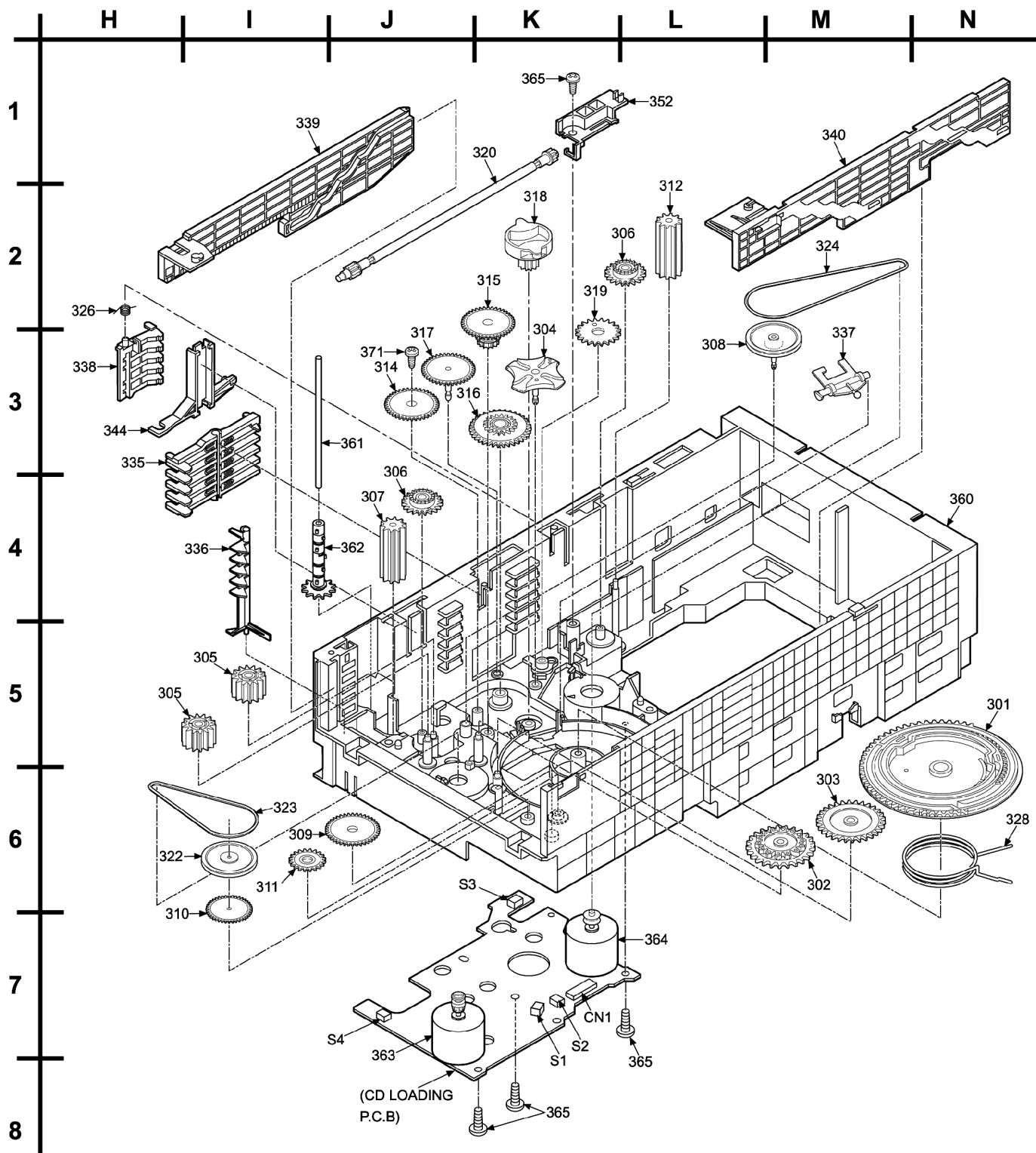
## 25.1.2. Deck Mechanism Parts List

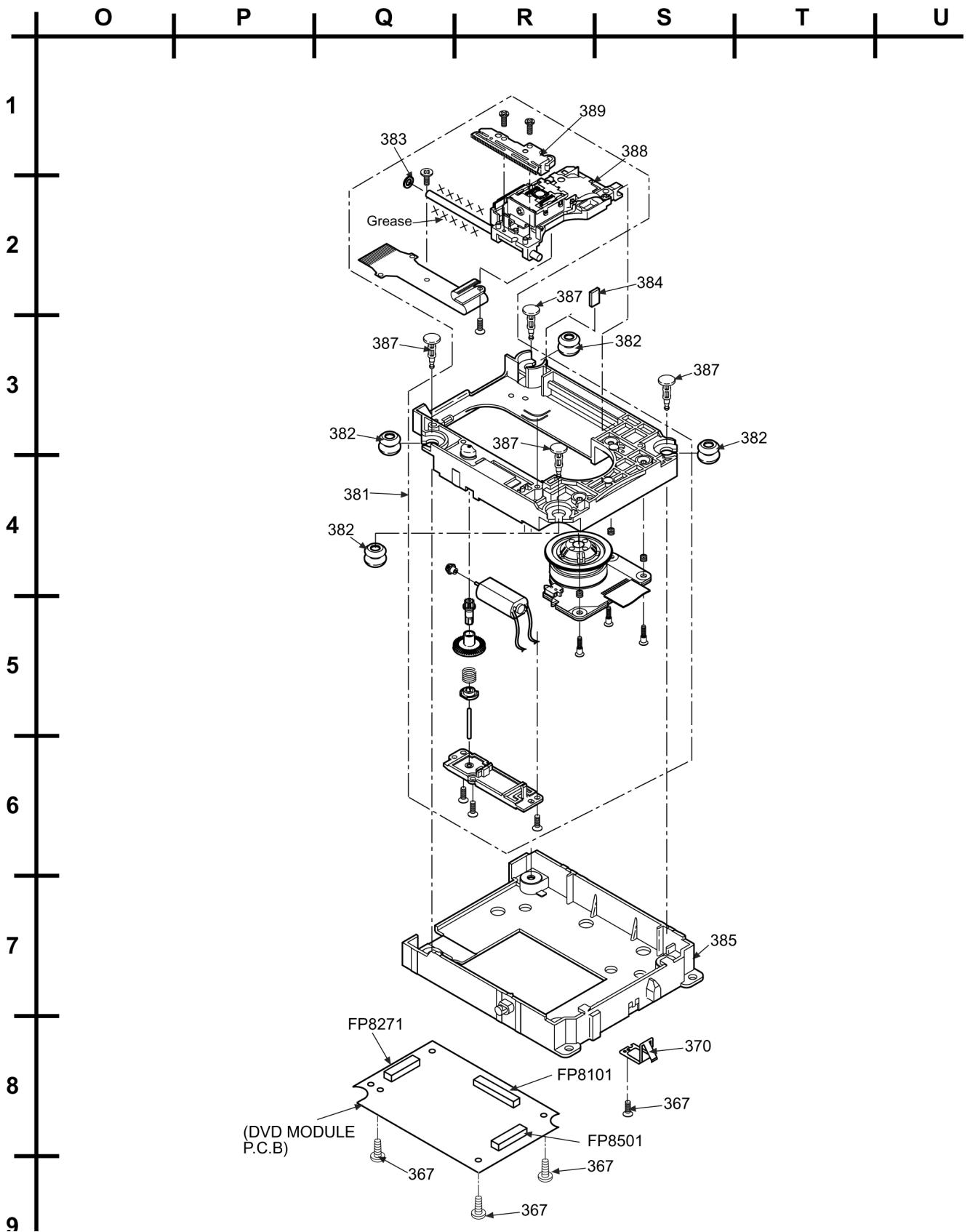
| Ref. No. | Part No.    | Part Name & Description | Remarks |
|----------|-------------|-------------------------|---------|
|          |             | CASSETTE DECK           |         |
|          |             |                         |         |
| 101      | RED0071     | R/P HEAD BLOCK UNIT     | [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      | RDV0034-2   | CAPSTAN BELT A          | [M]     |
| 109      | RDV0057     | MAIN BELT B             | [M]     |
| 110      | RMB0312     | TRIGGER LEVER SPRING    | [M]     |
| 111      | RMB0400     | REEL SPRING             | [M]     |
| 112      | RMB0403     | HEAD 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      | REM0121     | CAP MOTOR ASS'Y         | [M]     |
| 135      | RHD26022    | MOTOR SCREW             | [M]     |
| 136      | XTW2+5L     | HEAD BLOCK UNIT SCRE    | [M]     |
| 137      | XTW26+10S   | SUB-CHASSIS SCREW       | [M]     |
| 138      | XYC2+JF17   | PCB EARTH SCREW         | [M]     |
| 139      | RFKJXED70-K | MAIN CHASSIS            | [M]     |

## 25.2. DVD Loading Mechanism

### 25.2.1. DVD Loading Mechanism Parts Location







## 25.2.2. DVD Loading Mechanism Parts List

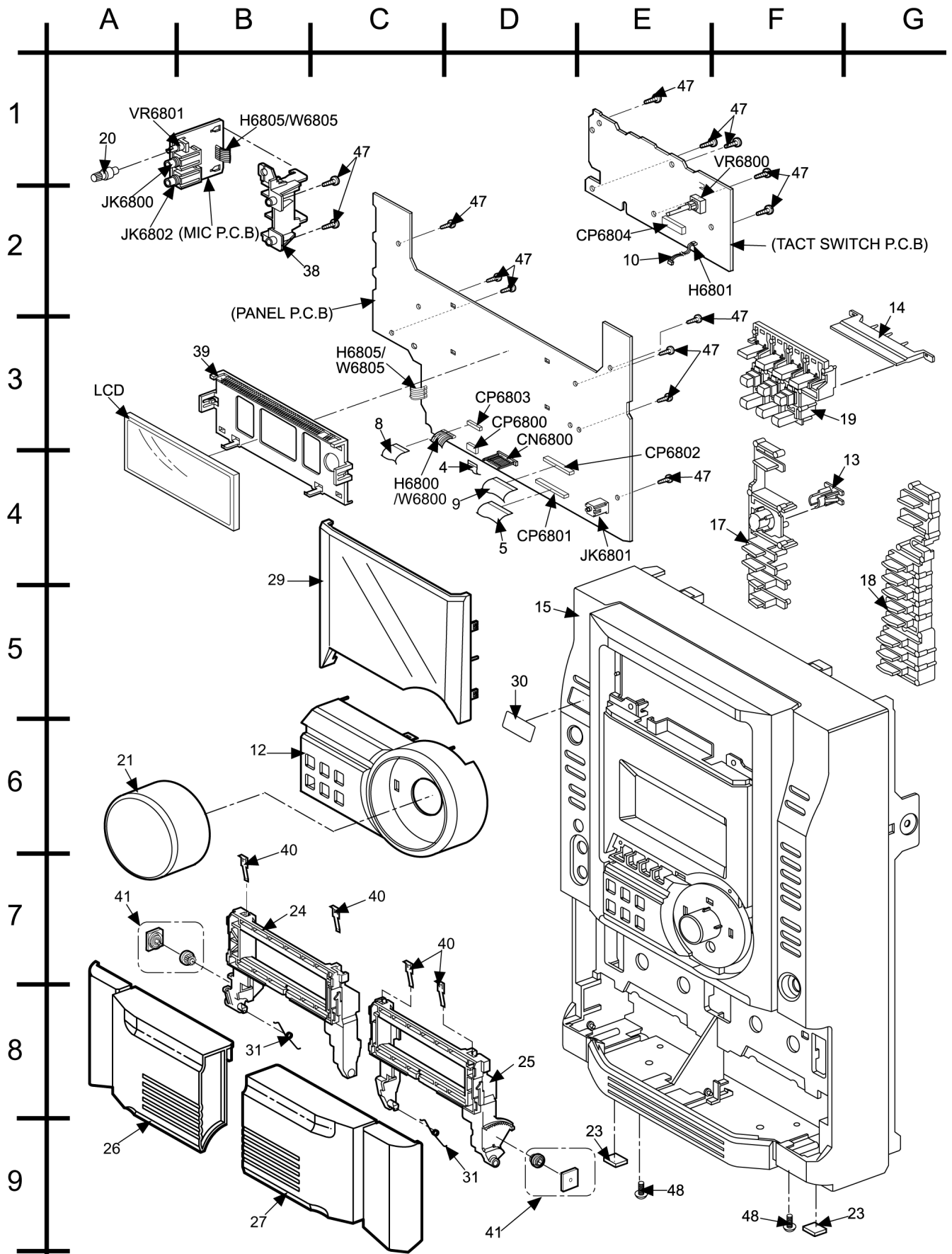
| Ref. No. | Part No.     | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
|          |              | TRAVERSE DECK           |         |
| 301      | RDG0519      | MAIN GEAR               | [M]     |
| 302      | RDG0520      | SPEED UP GEAR           | [M]     |
| 303      | RDG0521      | REVERSE GEAR            | [M]     |
| 304      | RDG0522      | GENEVA GEAR             | [M]     |
| 305      | RDG0523      | HOR RELAY GEAR          | [M]     |
| 306      | RDG0525      | CROWN GEAR              | [M]     |
| 307      | RDG0526      | TRAY RELAY GEAR         | [M]     |
| 308      | RDG0527      | UD PULLEY GEAR          | [M]     |
| 309      | RDG0528      | HOR SPEED DOWN GEAR     | [M]     |
| 310      | RDG0529      | HOR SPEED DOWN GEAR     | [M]     |
| 311      | RDG0530      | HOR DRIVE GEAR          | [M]     |
| 312      | RDG0531      | LOAD RELAY GEAR         | [M]     |
| 313      | RDG0532      | LOAD GEAR               | [M]     |
| 314      | RDG0535      | UD SPEED DOWN GEAR      | [M]     |
| 315      | RDG0534      | UD SPEED DOWN GEAR      | [M]     |
| 316      | RDG0536      | SELECT SPEED DOWN GEAR  | [M]     |
| 317      | RDG0537-1    | SELECT DRIVE GEAR       | [M]     |
| 318      | RDG0538-1    | CHANGE GEAR             | [M]     |
| 319      | RDG0539      | UD DRIVE GEAR           | [M]     |
| 320      | RDG0540      | TIMING GEAR             | [M]     |
| 321      | RDG0542      | TRAY GEAR               | [M]     |
| 322      | RDG0543      | HOR PULLEY GEAR         | [M]     |
| 323      | RDV0068      | HOR BELT                | [M]     |
| 324      | RDV0069      | UD BELT                 | [M]     |
| 325      | RME0344-1    | UD ASSIST SPRING        | [M]     |
| 326      | RME0361      | TRAY STOPPER SPRING     | [M]     |
| 327      | RME0363-1    | LIMIT SPRING            | [M]     |
| 328      | RME0368-1    | MAIN GEAR SPRING        | [M]     |
| 329      | RML0616      | SPEED UP LOCK           | [M]     |
| 330      | RML0617-2    | SEPARATE LEVER 1        | [M]     |
| 331      | RML0618-1    | SEPARATE LEVER 2        | [M]     |
| 332      | RML0619-1    | UD. CONNECTION LEVER    | [M]     |
| 333      | RML0620      | TRV.CONNCT LEVER        | [M]     |
| 334      | RML0621-2    | TRAY CHG. LEVER         | [M]     |
| 335      | RML0622-1    | TRAY LOCK LEVER         | [M]     |
| 336      | RML0623      | OPEN SW. LEVER          | [M]     |
| 337      | RML0624      | CHG. LEVER              | [M]     |
| 338      | RML0637      | TRAY STOPPER            | [M]     |
| 339      | RMM0239-1    | UD.RACK (L)             | [M]     |
| 340      | RMM0240      | UD.RACK (R)             | [M]     |
| 341      | RMM0241-1    | TRV.SLIDE PLATE (L)     | [M]     |
| 342      | RMM0242-1    | TRV.SLIDE PLATE (R)     | [M]     |
| 343      | RMM0243      | SELECT RACK             | [M]     |
| 344      | RMM0244      | SELECT GUIDE            | [M]     |
| 345      | RMQ1051-2    | PITCH PLATE             | [M]     |
| 346      | RMQ1209      | UD BASE                 | [M]     |
| 347      | RMQ1056      | TRAY GUIDE (L)          | [M]     |
| 348      | RMQ1057      | TRAY GUIDE (R)          | [M]     |
| 349      | RMQ1058      | GEAR HOLDER             | [M]     |
| 350      | RMQ1059-2    | TOP COVER               | [M]     |
| 351      | RMQ1060      | CLAMP GUIDE             | [M]     |
| 352      | RMQ1061      | TG.PLATE                | [M]     |
| 353      | RMRI531-X    | FIXTURE                 | [M]     |
| 354      | RMRI446-X    | CLAMPER                 | [M]     |
| 355      | RMRI407A-H1  | TRAY NO. 1              | [M]     |
| 356      | RMRI407B-H1  | TRAY NO. 2              | [M]     |
| 357      | RMRI407C-H1  | TRAY NO. 3              | [M]     |
| 358      | RMRI407D-H1  | TRAY NO. 4              | [M]     |
| 359      | RMRI407E-H1  | TRAY NO. 5              | [M]     |
| 360      | RFXNAPM77MDS | MECHA BASE ASS'Y        | [M]     |
| 361      | RMS0762      | TRAY GEAR SHAFT         | [M]     |
| 362      | RXG0053      | TRAY DRIVE GEAR ASSY    | [M]     |
| 363      | RXQ0803      | LOADING MOTOR ASS'Y     | [M]     |
| 364      | RXQ0804      | UD MOTOR ASS'Y          | [M]     |
| 365      | XTB3+10J     | SCREW                   | [M]     |
| 366      | RMC0472      | TRAY SPRING             | [M]     |
| 367      | XTV2+6G      | SCREW                   | [M]     |
| 368      | XWG6FFY      | BACK YOKE               | [M]     |
| 369      | JSM0048      | MAGNET                  | [M]     |
| 370      | RMC0387      | SUPPORT SPRING          | [M]     |

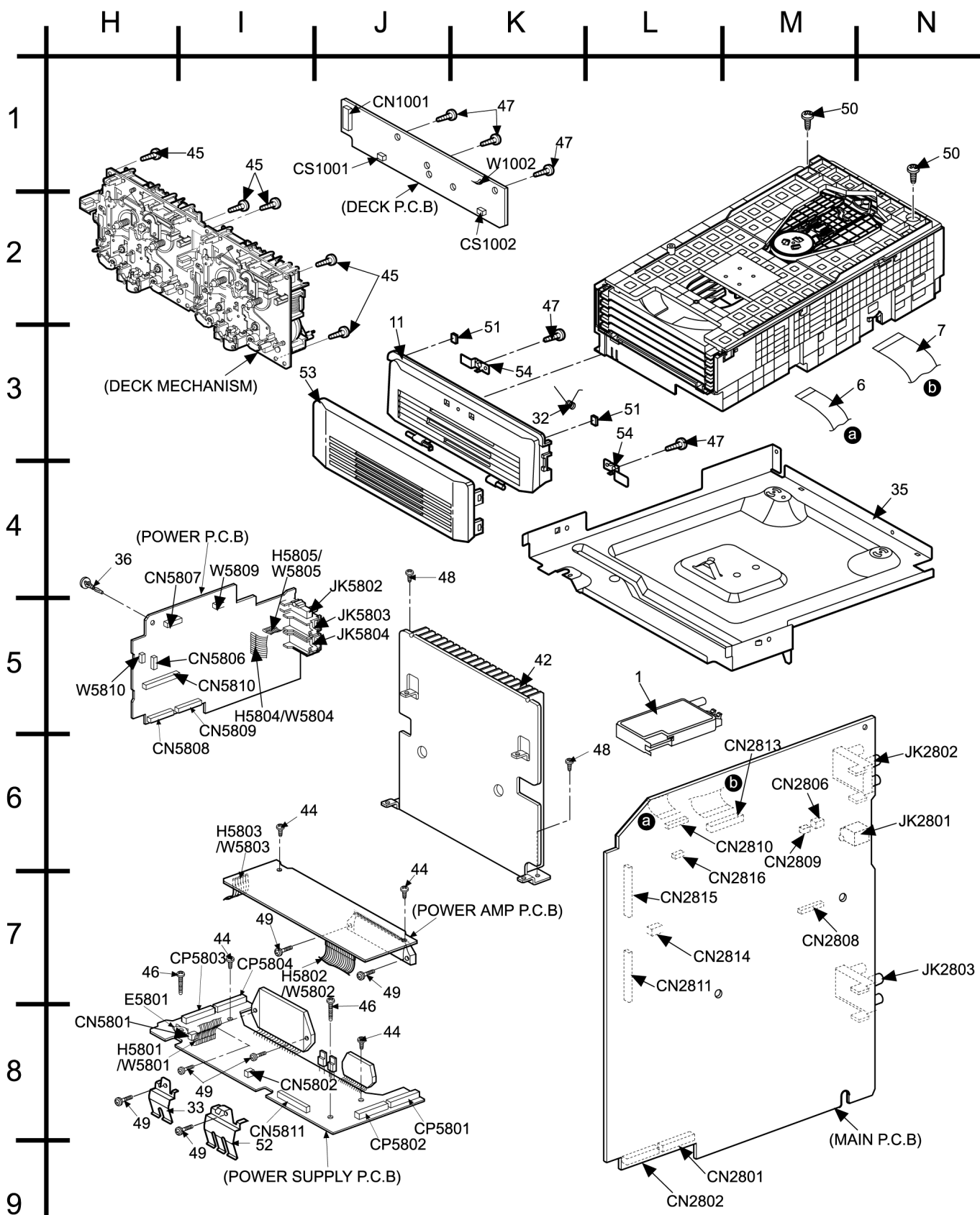
| Ref. No. | Part No.   | Part Name & Description | Remarks |
|----------|------------|-------------------------|---------|
| 371      | XTBS26+8J  | SCREW                   | [M]     |
| 381      | RAE2008W-S | DT68 TRV SUB UNIT       | [M]     |
| 382      | RMG0598-A  | FLOATING RUBBER         | [M]     |
| 383      | RMG0617-H  | CUSHION RUBBER A        | [M]     |
| 384      | RMG0618-H  | CUSHION RUBBER B        | [M]     |
| 385      | RMRI596-X  | MIDDLE CHASSIS          | [M]     |
| 387      | RMS0789    | FIXED PIN               | [M]     |
| 388      | RAF3112A-S | DVD OPU 7.1H            | [M]     |
| 389      | RMM0261    | DRIVE RACK              | [M]     |

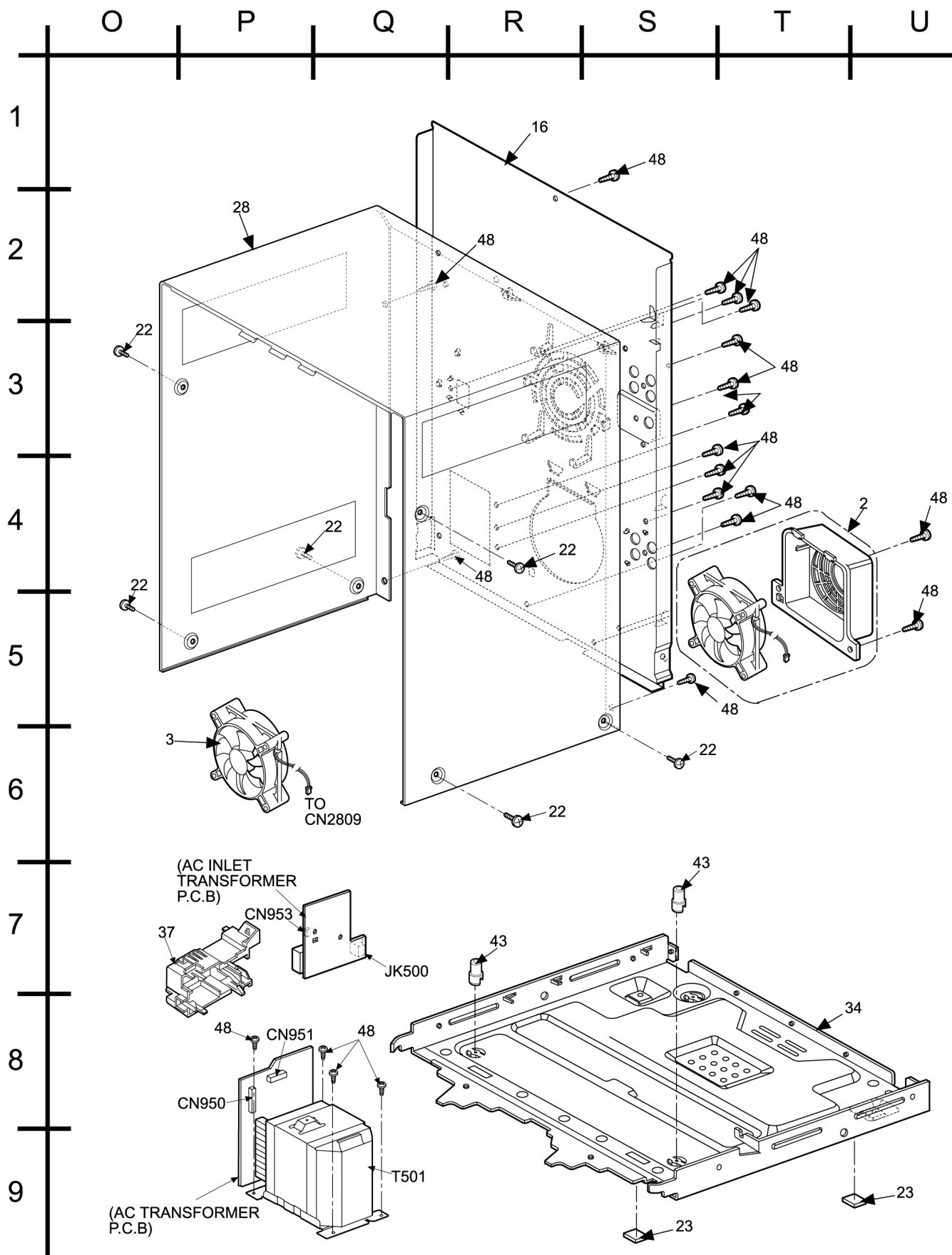


## 25.3. Cabinet

### 25.3.1. Cabinet Parts Location







## 25.3.2. Cabinet Parts List

| Ref. No. | Part No.     | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
|          |              | CABINET AND CHASSIS     |         |
| 1        | ENG07802QF   | TUNER PACK              | [M]     |
| 2        | L6FALEFH0020 | FAN COVER UNIT          | [M]     |
| 3        | L6FALEFH0023 | FAN                     | [M]     |
| 4        | REEX0202     | 10P FFC                 | [M]     |
| 5        | REEX0370     | 30P FFC WIRE            | [M]     |
| 6        | REEX0371     | 14P FFC WIRE            | [M]     |
| 7        | REEX0380     | 50P FFC WIRE            | [M]     |
| 8        | REEX0381     | 14P FFC PANEL-DECK      | [M]     |
| 9        | REEX0382     | 28P FFC (PANEL-MAIN)    | [M]     |
| 10       | REXX0315     | 2P FLAT WIRE (PANEL     | [M]     |
| 11       | RGKX0274-S   | CD LID                  | [M]     |
| 12       | RGKX0275-S1  | CONTROL PANEL           | [M]     |
| 13       | RGLX0095-Q   | POWER LIGHT CHIP        | [M]     |
| 14       | RGLX0096-Q   | CONTROL PANEL LIGHT     | [M]     |
| 15       | RGPX0160A1S4 | FRONT PANEL             | [M]     |
| 16       | RGRX0037C-B  | REAR PANEL              | [M]     |
| 17       | RGUX0583-S   | POWER BUTTON            | [M]     |
| 18       | RGUX0584-S   | CD CONTROL BUTTON       | [M]     |
| 19       | RGUX0585-1S  | FUNCTION BUTTON         | [M]     |
| 20       | RGWX0056-S   | MIC VOL KNOB            | [M]     |
| 21       | RGWX0072-S   | VOLUME KNOB             | [M]     |
| 22       | RHD30004-2S  | SCREW                   | [M]     |
| 23       | RKA0072-KJ   | LEG CUSHION             | [M]     |
| 24       | RKFX0093-K   | CASS. HOLDER (L)        | [M]     |
| 25       | RKFX0094-K   | CASS. HOLDER (R)        | [M]     |
| 26       | RKFX0123-1S  | CASS LID (L)            | [M]     |

| Ref. No. | Part No.     | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| 27       | RKFX0124-1S  | CASS LID (R)            | [M]     |
| 28       | RKMXX0077E-S | TOP CABINET (BENT)      | [M]     |
| 29       | RKWX0236-H3  | FL WINDOW               | [M]     |
| 30       | RKWX0238-S   | REMOTE SENSOR WINDOW    | [M]     |
| 31       | RMBX0021     | CASS OPEN SPRING        | [M]     |
| 32       | RMBX0033     | CD LID OPEN SPRING      | [M]     |
| 33       | RMXX0020     | REGMATOR IC CLIP        | [M]     |
| 34       | RMXX0062     | BOTTOM CHASSIS          | [M]     |
| 35       | RMXX0096     | DVD CHASSIS             | [M]     |
| 36       | RMNX0019     | PCB HOLDER              | [M]     |
| 37       | RMNX0029C-A  | SUB TRANS HOLDER        | [M]     |
| 38       | RMNX0133     | MIC JACK HOLDER         | [M]     |
| 39       | RMNX0134     | FL HOLDER               | [M]     |
| 40       | RUS757ZAA    | CASS HALF SPRING        | [M]     |
| 41       | RXGX0002     | DAMPER GEAR             | [M]     |
| 42       | RXXX0035-2J  | HEAT SINK UNIT          | [M]     |
| 43       | SHE187-5J    | PCB SUPPORT             | [M]     |
| 44       | XTB3+10J     | SCREW                   | [M]     |
| 45       | XTB3+10JFZ   | SCREW                   | [M]     |
| 46       | XTB3+20J     | SCREW                   | [M]     |
| 47       | XTBS26+10J   | SCREW                   | [M]     |
| 48       | XTBS3+8JFZ1  | SCREW                   | [M]     |
| 49       | XTW3+15T     | SCREW                   | [M]     |
| 50       | XTW3+8T      | SCREW                   | [M]     |
| 51       | RMG0547-K    | CUSHION                 | [M]     |
| 52       | RMXX0158-S2  | TR-FIXTURE              | [M]     |
| 53       | RYQX0131A-S1 | CD LID COVER UNIT       | [M]     |
| 54       | RMAX0068     | CD LID SUPPORT          | [M]     |

## 25.4. Electrical Parts List

| Ref. No. | Part No.     | Part Name & Description        | Remarks   |
|----------|--------------|--------------------------------|-----------|
|          |              | PRINTED CIRCUIT BOARD          |           |
|          | REP3654Q     | DVD MODULE P.C.B. (SIDE: A)    | [M] (RTL) |
|          | REP3654Q     | DVD MODULE P.C.B. (SIDE: B)    | [M] (RTL) |
|          | REPX0433A    | MAIN P.C.B.                    | [M] (RTL) |
|          | REPX0434G    | PANEL P.C.B.                   | [M] (RTL) |
|          | REPX0434G    | MIC P.C.B.                     | [M] (RTL) |
|          | REPX0434G    | TACT P.C.B.                    | [M] (RTL) |
|          | REPX0432E    | POWER SUPPLY P.C.B.            | [M] (RTL) |
|          | REPX0432E    | POWER AMP P.C.B.               | [M] (RTL) |
|          | REPX0432E    | POWER P.C.B.                   | [M] (RTL) |
|          | REPX0331C    | DECK P.C.B.                    | [M] (RTL) |
|          | REPX0321B    | DECK MECHANISM P.C.B.          | [M] (RTL) |
|          | REPX0431C    | TRANSFORMER P.C.B.             | [M] (RTL) |
|          | REPX0431C    | AC INLET P.C.B.                | [M] (RTL) |
|          | REP3569A     | CD LOADING P.C.B.              | [M] (RTL) |
|          |              | INTEGRATED CIRCUITS            |           |
| IC11     | C0GAG0000007 | IC UP/DOWN MOTOR DRIVE         | [M]       |
| IC21     | C0GAG0000007 | IC LOADING MOTOR DRIVE         | [M]       |
| IC951    | CNB13030R2AU | IC PHOTO INTERRUPTOR           | [M]       |
| IC971    | CNB13030R2AU | IC PHOTO INTERRUPTOR           | [M]       |
| IC1001   | AN7348S-E1   | IC P.B. EQ/REC AMP/ALC/TPS AMP | [M]       |
| IC1004   | C1AA00000612 | IC R/P SELECT                  | [M]       |
| IC2801   | C0CBADG00005 | IC 5V REGULATOR                | [M]       |
| IC2802   | C0DBAZG00033 | IC DC TO DC CONVERTER          | [M]       |
| IC2803   | C0DBAZG00033 | IC DC TO DC CONVERTER          | [M]       |
| IC2806   | C0CBADG00005 | IC 5V REGULATOR                | [M]       |
| IC2807   | C0DBEFG00003 | IC REGULATOR                   | [M]       |
| IC2808   | C0CBADG00005 | IC 5V REGULATOR                | [M]       |
| IC2809   | C9ZB00000377 | IC VIDEO BUFFER                | [M]       |
| IC2811   | C0AABB000117 | IC HP AMP                      | [M]       |
| IC2812   | KIA4558FEL   | IC DUAL OP-AMP                 | [M]       |
| IC2813   | C1BB00000801 | IC KARAOKE                     | [M]       |
| IC2815   | C1BB00000845 | IC ASP                         | [M]       |
| IC2816   | C0ABCB000052 | IC QUAD OP-AMP                 | [M]       |
| IC2817   | C0ABCB000052 | IC QUAD OP-AMP                 | [M]       |

| Ref. No. | Part No.     | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| IC2818   | C0JBAR000292 | IC ANALOG SW            | [M]     |
| IC2819   | KIA4558FEL   | IC DUAL OP-AMP          | [M]     |
| IC5801   | RSN309W44B   | IC POWER HIC            | [M]     |
| IC5802   | C5BA00000113 | IC VOLTAGE REGULATOR    | [M]     |
| IC5803   | RSN312H24-P  | IC POWER AMP            | [M]     |
| IC6800   | C2CBJG000486 | IC MICROPROCESSOR       | [M]     |
| IC6802   | C1BB00000086 | IC SPECTRUM ANALYZER    | [M]     |
| IC6803   | C0HBB0000039 | IC FL DRIVER            | [M]     |
| IC8001   | MN2DS0003APH | IC DV2.1 LSI            | [M]     |
| IC8051   | C3ABPG000133 | IC 64MB SDRAM           | [M]     |
| IC8111   | C0CBCBD00018 | IC POWER SUPPLY         | [M]     |
| IC8251   | C0GBG0000044 | IC MOTOR DRIVE          | [M]     |
| IC8271   | C0GBF0000004 | IC MOTOR DRIVE          | [M]     |
| IC8451   | C0FBBK000036 | IC AUDIO DAC            | [M]     |
| IC8601   | C0EBE0000384 | IC VOLTAGE DETECTING    | [M]     |
| IC8605   | C0EBA0000031 | IC RESET                | [M]     |
| IC8651   | RFKFMH81T161 | IC FLASH ROM            | [SPC]   |
| IC8691   | C0JBAA000346 | IC AND GATE LOGIC       | [M]     |
| IC8695   | C0JBAA000346 | IC AND GATE LOGIC       | [M]     |
|          |              | TRANSISTORS             |         |
| Q1       | B3NAA0000068 | 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]     |
| Q1015    | B1ABCF000011 | TRANSISTOR              | [M]     |
| Q1016    | B1GDCFJJ0023 | TRANSISTOR              | [M]     |
| Q1017    | B1AARC000002 | TRANSISTOR              | [M]     |
| Q1020    | B1ABEB000001 | TRANSISTOR              | [M]     |
| Q1021    | B1ABEB000001 | TRANSISTOR              | [M]     |
| Q2802    | B1ADCF000001 | TRANSISTOR              | [M]     |
| Q2806    | B1GBCFJN0021 | TRANSISTOR              | [M]     |
| Q2810    | B1GBCFJN0021 | TRANSISTOR              | [M]     |

| Ref. No. | Part No.     | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| Q2813    | B1GFGCAA0001 | TRANSISTOR              | [M]     |
| Q2814    | B1GDCFGA0014 | TRANSISTOR              | [M]     |
| Q2815    | B1GDCFGA0014 | TRANSISTOR              | [M]     |
| Q2816    | B1GDCFGA0014 | TRANSISTOR              | [M]     |
| Q2818    | B1GFGCAA0001 | TRANSISTOR              | [M]     |
| Q2819    | B1GFGCAA0001 | TRANSISTOR              | [M]     |
| Q2820    | B1ABEB000001 | TRANSISTOR              | [M]     |
| Q2821    | B1GFGCAA0001 | TRANSISTOR              | [M]     |
| Q2822    | B1GCCFGA0005 | TRANSISTOR              | [M]     |
| Q2823    | B1GCCFGA0005 | TRANSISTOR              | [M]     |
| Q2824    | B1GCCFGA0005 | TRANSISTOR              | [M]     |
| Q2825    | B1ABEB000001 | TRANSISTOR              | [M]     |
| Q2826    | B1ADCF000001 | TRANSISTOR              | [M]     |
| Q2827    | 2SD0592ARA   | TRANSISTOR              | [M]     |
| Q2828    | B1ADCF000001 | TRANSISTOR              | [M]     |
| Q2829    | 2SD0592ARA   | TRANSISTOR              | [M]     |
| Q2830    | B1ADCF000001 | TRANSISTOR              | [M]     |
| Q2831    | B1ABCF000011 | TRANSISTOR              | [M]     |
| Q2832    | B1ADCF000001 | TRANSISTOR              | [M]     |
| Q2833    | 2SD0592ARA   | TRANSISTOR              | [M]     |
| Q2834    | B1ADCF000001 | TRANSISTOR              | [M]     |
| Q2835    | 2SD0592ARA   | TRANSISTOR              | [M]     |
| Q2836    | B1ADCF000001 | TRANSISTOR              | [M]     |
| Q2837    | B1ABCF000011 | TRANSISTOR              | [M]     |
| Q2838    | B1GBCFJA0015 | TRANSISTOR              | [M]     |
| Q2839    | B1GFGCAA0001 | TRANSISTOR              | [M]     |
| Q2840    | B1GCCFGA0005 | TRANSISTOR              | [M]     |
| Q2841    | B1GCCFGA0005 | TRANSISTOR              | [M]     |
| Q2842    | B1ABEB000001 | TRANSISTOR              | [M]     |
| Q5801    | B1AACF000089 | TRANSISTOR              | [M]     |
| Q5802    | B1AACF000089 | TRANSISTOR              | [M]     |
| Q5803    | B1AAGC000007 | TRANSISTOR              | [M]     |
| Q5804    | B1BCCG000021 | TRANSISTOR              | [M]     |
| Q5805    | B1BAAJ000003 | TRANSISTOR              | [M]     |
| Q5806    | B1BACG000036 | TRANSISTOR              | [M]     |
| Q5807    | B1ACCF000063 | TRANSISTOR              | [M]     |
| Q5808    | B1ACCF000063 | TRANSISTOR              | [M]     |
| Q5809    | B1ACCL000012 | TRANSISTOR              | [M]     |
| Q5810    | B1ACCL000010 | TRANSISTOR              | [M]     |
| Q5811    | B1AACF000089 | TRANSISTOR              | [M]     |
| Q5812    | B1AACF000089 | TRANSISTOR              | [M]     |
| Q5813    | B1AACF000089 | TRANSISTOR              | [M]     |
| Q5814    | B1GCCFJJ0015 | TRANSISTOR              | [M]     |
| Q5815    | 2SB621ARSTA  | TRANSISTOR              | [M]     |
| Q5816    | 2SD21370PA   | TRANSISTOR              | [M]     |
| Q5817    | B1AAGC000007 | TRANSISTOR              | [M]     |
| Q5818    | B1AAGC000007 | TRANSISTOR              | [M]     |
| Q6001    | B1ABCF000131 | TRANSISTOR              | [M]     |
| Q6002    | B1ABCF000131 | TRANSISTOR              | [M]     |
| Q6800    | B1GACFLL0007 | TRANSISTOR              | [M]     |
| Q6803    | B1ACCF000063 | TRANSISTOR              | [M]     |
| Q6804    | B1ACCF000063 | TRANSISTOR              | [M]     |
| Q6805    | B1GACFJJ0016 | TRANSISTOR              | [M]     |
| Q6806    | B1AACF000089 | TRANSISTOR              | [M]     |
| Q6807    | B1AACF000065 | TRANSISTOR              | [M]     |
| Q6808    | B1GCCFJJ0015 | TRANSISTOR              | [M]     |
| Q6809    | B1GCCFJJ0015 | TRANSISTOR              | [M]     |
| Q6810    | B1ABCF000131 | TRANSISTOR              | [M]     |
| Q6811    | B1ABCF000131 | TRANSISTOR              | [M]     |
| Q6812    | B1ABCF000131 | TRANSISTOR              | [M]     |
| Q6813    | B1ACKD000004 | TRANSISTOR              | [M]     |
| Q6814    | B1ACKD000004 | TRANSISTOR              | [M]     |
| Q6815    | B1GACFJJ0016 | TRANSISTOR              | [M]     |
| Q6816    | B1ABCF000131 | TRANSISTOR              | [M]     |
| Q6817    | B1AACF000065 | TRANSISTOR              | [M]     |
| Q6820    | B1GACFJN0011 | TRANSISTOR              | [M]     |
| Q6821    | B1GACFJN0011 | TRANSISTOR              | [M]     |
| Q6822    | B1GACFJN0011 | TRANSISTOR              | [M]     |
| Q6823    | B1GACFJN0011 | TRANSISTOR              | [M]     |
| Q6824    | B1GACFJN0011 | TRANSISTOR              | [M]     |
| Q6825    | B1ABCF000131 | TRANSISTOR              | [M]     |
| Q6826    | B1ABCF000131 | TRANSISTOR              | [M]     |
| Q6827    | B1ABCF000131 | TRANSISTOR              | [M]     |
| Q6828    | B1ABCF000131 | TRANSISTOR              | [M]     |

| Ref. No. | Part No.     | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| Q6833    | B1GBCFJJ0039 | TRANSISTOR              | [M]     |
| Q6834    | B1GBCFJJ0039 | TRANSISTOR              | [M]     |
| Q6835    | B1GBCFJJ0039 | TRANSISTOR              | [M]     |
| Q6836    | B1GBCFJJ0039 | TRANSISTOR              | [M]     |
| Q8550    | 2SB1219AHL   | TRANSISTOR              | [M]     |
| Q8551    | 2SD1819A0L   | TRANSISTOR              | [M]     |
| Q8552    | 2SB09700RL   | TRANSISTOR              | [M]     |
| Q8560    | 2SD1819A0L   | TRANSISTOR              | [M]     |
| Q8561    | 2SD1819A0L   | TRANSISTOR              | [M]     |
| Q8562    | 2SB09700RL   | TRANSISTOR              | [M]     |
| Q8605    | 2SD1819A0L   | TRANSISTOR              | [M]     |
| Q8606    | 2SD1819A0L   | TRANSISTOR              | [M]     |
| QR8420   | UNR521100L   | CHIP TRANSISTOR         | [M]     |
| QR8571   | UNR511V00L   | CHIP TRANSISTOR         | [M]     |
|          |              | DIODES                  |         |
| D950     | B0EAKM000126 | DIODE                   | [M]     |
| D951     | MA2C16500E   | DIODE                   | [M]     |
| D971     | MA2C16500E   | DIODE                   | [M]     |
| D1003    | B0ACCK000005 | DIODE                   | [M]     |
| D1004    | B0BC3R700004 | DIODE                   | [M]     |
| D2801    | B0JCPD000025 | DIODE                   | [M]     |
| D2802    | B0JCPD000025 | DIODE                   | [M]     |
| D2803    | B0BC7R500001 | DIODE                   | [M]     |
| D2804    | B0BC7R500001 | DIODE                   | [M]     |
| D2808    | B0ACCK000005 | DIODE                   | [M]     |
| D2809    | B0ACCK000005 | DIODE                   | [M]     |
| D2815    | B0ACCK000005 | DIODE                   | [M]     |
| D2816    | B0ACCK000005 | DIODE                   | [M]     |
| D2817    | B0ACCK000005 | DIODE                   | [M]     |
| D2818    | B0ACCK000005 | DIODE                   | [M]     |
| D2819    | B0ACCK000005 | DIODE                   | [M]     |
| D2820    | B0BC01000014 | DIODE                   | [M]     |
| D2821    | B0ACCK000005 | DIODE                   | [M]     |
| D2822    | B0BC01000014 | DIODE                   | [M]     |
| D2823    | B0EAKM000117 | DIODE                   | [M]     |
| D2824    | B0ACCK000005 | DIODE                   | [M]     |
| D2825    | B0ACCK000005 | DIODE                   | [M]     |
| D2826    | B0ACCK000005 | DIODE                   | [M]     |
| D2827    | B0EAKM000117 | DIODE                   | [M]     |
| D2828    | B0ACCK000005 | DIODE                   | [M]     |
| D2829    | B0ACCK000005 | DIODE                   | [M]     |
| D2830    | B0ACCK000005 | DIODE                   | [M]     |
| D2831    | B0ACCK000005 | DIODE                   | [M]     |
| D2832    | B0ADJC000020 | DIODE                   | [M]     |
| D2833    | B0ACCK000005 | DIODE                   | [M]     |
| D2834    | B0BC5R000009 | DIODE                   | [M]     |
| D2835    | B0ACCK000005 | DIODE                   | [M]     |
| D2836    | B0EAKM000117 | DIODE                   | [M]     |
| D2850    | B0BC9R000008 | DIODE                   | [M]     |
| D5801    | B0JAPG000019 | DIODE                   | [M]     |
| D5802    | B0JAPG000019 | DIODE                   | [M]     |
| D5803    | B0BA01900005 | DIODE                   | [M]     |
| D5804    | B0BA01900005 | DIODE                   | [M]     |
| D5805    | B0BA01900005 | DIODE                   | [M]     |
| D5806    | B0BA01900005 | DIODE                   | [M]     |
| D5807    | B0EAKM000117 | DIODE                   | [M]     |
| D5808    | B0EAKM000117 | DIODE                   | [M]     |
| D5809    | B0AACK000004 | DIODE                   | [M]     |
| D5810    | B0AACK000004 | DIODE                   | [M]     |
| D5814    | B0AACK000004 | DIODE                   | [M]     |
| D5815    | B0AACK000004 | DIODE                   | [M]     |
| D5816    | B0BA01900035 | DIODE                   | [M]     |
| D5817    | B0BA01700031 | DIODE                   | [M]     |
| D5818    | B0BA01200046 | DIODE                   | [M]     |
| D5819    | B0AACK000004 | DIODE                   | [M]     |
| D5820    | B0AACK000004 | DIODE                   | [M]     |
| D5821    | B0AACK000004 | DIODE                   | [M]     |
| D5822    | B0JAPG000019 | DIODE                   | [M]     |
| D5823    | B0JAPG000019 | DIODE                   | [M]     |
| D5831    | B0FBAM000009 | DIODE                   | [M]     |
| D5832    | B0FBAM000009 | DIODE                   | [M]     |

| Ref. No. | Part No.     | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| D5833    | B0EAKM000126 | DIODE                   | [M]     |
| D5834    | B0EAKM000126 | DIODE                   | [M]     |
| D5835    | B0BA02600018 | DIODE                   | [M]     |
| D5836    | B0EAKM000125 | DIODE                   | [M]     |
| D5837    | B0EAKM000125 | DIODE                   | [M]     |
| D5838    | B0EAKM000125 | DIODE                   | [M]     |
| D5839    | B0BA7R000005 | DIODE                   | [M]     |
| D5840    | B0EAKM000125 | DIODE                   | [M]     |
| D5841    | B0AACK000004 | DIODE                   | [M]     |
| D5842    | B0EAKM000125 | DIODE                   | [M]     |
| D5844    | B0EBNL000004 | DIODE                   | [M]     |
| D5846    | B0FBAM000009 | DIODE                   | [M]     |
| D5847    | B0FBAM000009 | DIODE                   | [M]     |
| D5848    | B0AACK000004 | DIODE                   | [M]     |
| D5849    | B0AACK000004 | DIODE                   | [M]     |
| D5850    | B0AACK000004 | DIODE                   | [M]     |
| D5851    | B0AACK000004 | DIODE                   | [M]     |
| D5854    | B0AACK000004 | DIODE                   | [M]     |
| D5855    | B0AACK000004 | DIODE                   | [M]     |
| D5856    | B0AACK000004 | DIODE                   | [M]     |
| D5858    | B0BC5R000009 | DIODE                   | [M]     |
| D5859    | B0AACK000004 | DIODE                   | [M]     |
| D5859    | B0EAKM000117 | DIODE                   | [M]     |
| D5860    | B0AACK000004 | DIODE                   | [M]     |
| D5861    | B0AACK000004 | DIODE                   | [M]     |
| D5871    | B0ACCK000005 | DIODE                   | [M]     |
| D6000    | B3AAA0000583 | DIODE                   | [M]     |
| D6801    | B0ACCK000005 | DIODE                   | [M]     |
| D6802    | B0ACCE000003 | DIODE                   | [M]     |
| D6803    | B0ACCE000003 | DIODE                   | [M]     |
| D6804    | B0BC5R600003 | DIODE                   | [M]     |
| D6806    | B0ACCK000005 | DIODE                   | [M]     |
| D6808    | B3AAA0000583 | DIODE                   | [M]     |
| D6809    | B3AAA0000583 | DIODE                   | [M]     |
| D6810    | B3AAA0000583 | DIODE                   | [M]     |
| D6811    | B3AAA0000583 | DIODE                   | [M]     |
| D6813    | B0ACCK000005 | DIODE                   | [M]     |
| D6814    | B3AAA0000583 | DIODE                   | [M]     |
| D6815    | B0BC5R600003 | DIODE                   | [M]     |
| D8550    | MA2S11100L   | DIODE                   | [M]     |
| D8571    | MA2J72800L   | DIODE                   | [M]     |
|          |              |                         |         |
|          |              | CHIP INDUCTORS          |         |
|          |              |                         |         |
| LB8001   | J0JHC0000045 | CHIP INDUCTOR           | [M]     |
| LB8002   | J0JHC0000045 | CHIP INDUCTOR           | [M]     |
| LB8011   | ERJ3GEYJ220V | CHIP RESISTOR           | [M]     |
| LB8301   | J0JCC0000119 | CHIP INDUCTOR           | [M]     |
| LB8302   | J0JCC0000119 | CHIP INDUCTOR           | [M]     |
| LB8303   | J0JCC0000119 | CHIP INDUCTOR           | [M]     |
| LB8304   | J0JCC0000119 | CHIP INDUCTOR           | [M]     |
| LB8305   | J0JCC0000119 | CHIP INDUCTOR           | [M]     |
| LB8401   | ERJ3GEYJ151V | 150 1/16W               | [M]     |
| LB8420   | J0JCC0000091 | FILTER                  | [M]     |
| LB8421   | J0JCC0000119 | CHIP INDUCTOR           | [M]     |
| LB8422   | J0JCC0000119 | CHIP INDUCTOR           | [M]     |
| LB8424   | J0JCC0000091 | FILTER                  | [M]     |
| LB8451   | J0JCC0000119 | CHIP INDUCTOR           | [M]     |
| LB8452   | J0JCC0000119 | CHIP INDUCTOR           | [M]     |
| LB8453   | J0JCC0000119 | CHIP INDUCTOR           | [M]     |
| LB8454   | J0JCC0000119 | CHIP INDUCTOR           | [M]     |
| LB8455   | J0JCC0000119 | CHIP INDUCTOR           | [M]     |
| LB8456   | J0JCC0000119 | CHIP INDUCTOR           | [M]     |
| LB8491   | J0JCC0000119 | CHIP INDUCTOR           | [M]     |
| LB8501   | ERJ3GEYJ222V | 2.2K 1/16W              | [M]     |
| LB8502   | J0JHC0000045 | CHIP INDUCTOR           | [M]     |
| LB8503   | ERJ3GEYR000V | 0 1/16W                 | [M]     |
| LB8504   | J0JCC0000091 | FILTER                  | [M]     |
| LB8505   | J0JCC0000091 | FILTER                  | [M]     |
| LB8506   | ERJ3GEYJ152V | 1.5K 1/16W              | [M]     |
| LB8507   | J0JCC0000091 | FILTER                  | [M]     |
| LB8690   | J0JCC0000091 | FILTER                  | [M]     |
| LB8691   | ERJ3GEYJ101V | 100 1/16W               | [M]     |
| LB8692   | ERJ3GEYJ101V | 100 1/16W               | [M]     |

| Ref. No. | Part No.     | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| LB8693   | ERJ3GEYJ101V | 100 1/16W               | [M]     |
|          |              |                         |         |
|          |              | VARIABLE RESISTORS      |         |
|          |              |                         |         |
| VR6800   | EVEKE2F3524M | VR VOLUME JOG           | [M]     |
| VR6801   | EVUE27FK2B53 | VR MIC                  | [M]     |
|          |              |                         |         |
|          |              | SWITCHES                |         |
|          |              |                         |         |
| S1       | K0L1BA000065 | SW STOCK                | [M]     |
| S2       | K0L1BA000065 | SW PLAY                 | [M]     |
| S3       | K0L1BA000078 | SW BOTTOM               | [M]     |
| S4       | RSH1A045-1A  | SW OPEN                 | [M]     |
| S5       | K0L1BA000065 | SW CHANGE               | [M]     |
| S951     | K0J1BB000017 | SW MODE                 | [M]     |
| S952     | RSH1A019-2U  | SW HALF                 | [M]     |
| S971     | K0J1BB000017 | SW MODE                 | [M]     |
| S972     | RSH1A019-2U  | SW HALF                 | [M]     |
| S974     | RSH1A019-2U  | SW RECINH_R             | [M]     |
| S975     | RSH1A019-2U  | SW LEAF                 | [M]     |
| S6800    | EVQ21405R    | SW DVD/CD               | [M]     |
| S6801    | EVQ21405R    | SW TAPE                 | [M]     |
| S6802    | EVQ21405R    | SW TUNER/BAND           | [M]     |
| S6803    | EVQ21405R    | SW AUX                  | [M]     |
| S6804    | EVQ21405R    | SW DECK 1               | [M]     |
| S6805    | EVQ21405R    | SW DISPLAY              | [M]     |
| S6806    | EVQ21405R    | SW DECK 2               | [M]     |
| S6807    | EVQ21405R    | SW REW                  | [M]     |
| S6808    | EVQ21405R    | SW FF                   | [M]     |
| S6809    | EVQ21405R    | SW STOP                 | [M]     |
| S6810    | EVQ21405R    | SW POWER                | [M]     |
| S6811    | EVQ21405R    | SW DISC CHECK           | [M]     |
| S6812    | EVQ21405R    | SW MULTI RE-MASTER      | [M]     |
| S6813    | EVQ21405R    | SW SUPER SURROUND       | [M]     |
| S6814    | EVQ21405R    | SW DECK 1/2             | [M]     |
| S6815    | EVQ21405R    | SW REC                  | [M]     |
| S6816    | EVQ21405R    | SW CD OPEN/CLOSE        | [M]     |
| S6817    | EVQ21405R    | SW DISC CHANGE          | [M]     |
| S6819    | EVQ21405R    | SW DISC 5               | [M]     |
| S6820    | EVQ21405R    | SW DISC 4               | [M]     |
| S6821    | EVQ21405R    | SW DISC 3               | [M]     |
| S6822    | EVQ21405R    | SW DISC 2               | [M]     |
| S6823    | EVQ21405R    | SW DISC 1               | [M]     |
| S6824    | EVQ21405R    | SW SSEQ                 | [M]     |
| S6825    | EVQ21405R    | SW S.WOOFER             | [M]     |
| S6826    | EVQ21405R    | SW SOUND EQ             | [M]     |
|          |              |                         |         |
|          |              | CONNECTORS              |         |
|          |              |                         |         |
| CN1      | K1MN14B00066 | 14P FFC CONNECTOR       | [M]     |
| CN950    | RJT119W10V   | 10P CONNECTOR           | [M]     |
| CN951    | RJT119W07V   | 7P WIRE CONNECTOR       | [M]     |
| CN953    | K1KA03A00083 | 3P CONNECTOR            | [M]     |
| CN971    | K1MN10B00104 | 10P FFC CONNECTOR       | [M]     |
| CN1001   | K1MN14B00058 | 14P CONNECTOR           | [M]     |
| CN2801   | K1KB12B00036 | 12P CONNECTOR           | [M]     |
| CN2802   | K1KB12B00036 | 12P CONNECTOR           | [M]     |
| CN2806   | K1KA02A00008 | 2P CONNECTOR            | [M]     |
| CN2808   | K1KA10A00263 | 10P CONNECTOR           | [M]     |
| CN2809   | K1KA02A00375 | 2P LOADING MOTOR WIRE   | [M]     |
| CN2810   | K1MN14B00066 | 14P CONNECTOR           | [M]     |
| CN2811   | K1MN30A00046 | 30P FFC CONNECTOR       | [M]     |
| CN2813   | K1MN50A00008 | 50P CONNECTORS          | [M]     |
| CN2814   | K1KA03A00083 | 3P CONNECTOR            | [M]     |
| CN2815   | K1MN28A00016 | 28P FFC CONNECTOR       | [M]     |
| CN2816   | K1KA02A00375 | 2P LOADING MOTOR WIRE   | [M]     |
| CN5801   | K1KA02A00375 | 2P LOADING MOTOR WIRE   | [M]     |
| CN5802   | K1KA02A00375 | 2P LOADING MOTOR WIRE   | [M]     |
| CN5806   | K1KA07A00184 | 7P CONNECTOR            | [M]     |
| CN5807   | RJT119W08V   | 8P CONNECTOR            | [M]     |
| CN5808   | K1KB12B00036 | 12P CONNECTOR           | [M]     |
| CN5809   | K1KB12B00036 | 12P CONNECTOR           | [M]     |
| CN5810   | RJT119W15V   | 15P WIRE HOLDER         | [M]     |
| CN5811   | RJT119W15V   | 15P WIRE HOLDER         | [M]     |

| Ref. No. | Part No.     | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| CN6800   | K1KA11B00033 | 11P CONNECTOR           | [M]     |
| CP5801   | K1KA12A00184 | 12P CONNECTOR           | [M]     |
| CP5802   | K1KA12A00184 | 12P CONNECTOR           | [M]     |
| CP5803   | K1KA12A00184 | 12P CONNECTOR           | [M]     |
| CP5804   | K1KA12A00184 | 12P CONNECTOR           | [M]     |
| CP6800   | K1MN10B00104 | 10P FFC CONNECTOR       | [M]     |
| CP6801   | K1MN30A00046 | 30P FFC CONNECTOR       | [M]     |
| CP6802   | K1MN28A00016 | 28P FFC CONNECTOR       | [M]     |
| CP6803   | K1MN14A00049 | 14P FFC CONNECTOR       | [M]     |
| CP6804   | RJU071H11M   | 11P CONNECTOR           | [M]     |
| CS1001   | RJS1A6805-J  | 5P CONNECTOR            | [M]     |
| CS1002   | RJS1A6805-J  | 5P CONNECTOR            | [M]     |
| FP8101   | K1MN50B00031 | 50P CONNECTOR           | [M]     |
| FP8271   | K1MN15B00041 | 15P CONNECTOR           | [M]     |
| FP8501   | K1MN26B00094 | 26P CONNECTOR           | [M]     |
|          |              | COILS & TRANSFORMERS    |         |
| L500     | G0B371HA0005 | LINE FILTER             | [M] △   |
| L1001    | G0C470JA0030 | RF CHOKE COIL           | [M]     |
| L1002    | 7L1A62N      | BIAS OSC COIL           | [M]     |
| L2100    | J0JBC0000041 | CHIP INDUCTOR           | [M]     |
| L2101    | J0JBC0000041 | CHIP INDUCTOR           | [M]     |
| L2200    | J0JBC0000041 | CHIP INDUCTOR           | [M]     |
| L2201    | J0JBC0000041 | CHIP INDUCTOR           | [M]     |
| L2802    | G0A101G00022 | COIL                    | [M]     |
| L2805    | G0A101G00022 | COIL                    | [M]     |
| L2809    | ELESN220JA   | COIL                    | [M]     |
| L2810    | ELJFCR39KF   | CHIP INDUCTOR           | [M]     |
| L2811    | J0JCC0000120 | CHIP INDUCTOR           | [M]     |
| L2812    | J0JCC0000120 | CHIP INDUCTOR           | [M]     |
| L2813    | J0JCC0000120 | CHIP INDUCTOR           | [M]     |
| L2814    | J0JCC0000120 | CHIP INDUCTOR           | [M]     |
| L2815    | J0JCC0000120 | CHIP INDUCTOR           | [M]     |
| L2816    | J0JCC0000120 | CHIP INDUCTOR           | [M]     |
| L2819    | J0JBC0000019 | CHIP INDUCTOR           | [M]     |
| L2820    | G0C221KA0007 | COIL                    | [M]     |
| L2821    | G0C100JA0030 | INDUCTOR                | [M]     |
| L5001    | G0AR76Y00001 | CHOKE COIL              | [M]     |
| L5002    | G0AR76Y00001 | CHOKE COIL              | [M]     |
| L5003    | G0AR76Y00001 | CHOKE COIL              | [M]     |
| L5004    | G0AR76Y00001 | CHOKE COIL              | [M]     |
| L5005    | G0AR76Y00001 | CHOKE COIL              | [M]     |
| L6800    | G0C3R3JA0030 | COIL                    | [M]     |
| L6801    | G0C101JA0030 | INDUCTOR                | [M]     |
| L6802    | G0C101JA0030 | INDUCTOR                | [M]     |
| L6803    | G0C101JA0030 | INDUCTOR                | [M]     |
| L6804    | G0C100JA0030 | INDUCTOR                | [M]     |
| L6805    | G0C100JA0030 | INDUCTOR                | [M]     |
| L6806    | G0C3R3JA0030 | COIL                    | [M]     |
| L6807    | G0C100JA0030 | INDUCTOR                | [M]     |
| L6808    | G0C100JA0030 | INDUCTOR                | [M]     |
| L6809    | G0C100JA0030 | INDUCTOR                | [M]     |
| L6810    | G0C101JA0030 | INDUCTOR                | [M]     |
| L8201    | G1C100K00020 | CHIP INDUCTOR           | [M]     |
| L8202    | J0JCC0000079 | FILTER                  | [M]     |
| L8301    | G1C100KA0055 | CHIP INDUCTOR           | [M]     |
| L8302    | J0JCC0000079 | FILTER                  | [M]     |
| L8420    | G1C220KA0055 | CHIP INDUCTOR           | [M]     |
| L8550    | G1C100KA0055 | CHIP INDUCTOR           | [M]     |
| T501     | G4C8AHK00003 | POWER TRANSFORMER       | [M] △   |
| T502     | G4C2AAJ00005 | BACK-UP TRANSFORMER     | [M] △   |
|          |              | COMPONENT COMBINATION   |         |
| Z501     | ERZV10V511CS | ZENER                   | [M] △   |
| Z971     | RGSD12A1445T | RADA RESISTOR           | [M]     |
| Z6800    | B3RAB0000025 | REMOTE SENSOR           | [M]     |
| BS6800   | RMBX0032     | GROUND SPRING           | [M]     |

| Ref. No. | Part No.     | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
|          |              | RELAY                   |         |
| RL502    | K6B1AEA00003 | MAGNET RELAYS           | [M] △   |
|          |              | OSCILLATORS             |         |
| X6800    | H2A100500006 | RESONATOR               | [M]     |
| X6801    | H0A327200073 | CRYSTAL OSCILLATOR      | [M]     |
| X8621    | H0J270500064 | S/MOUNTING CRYSTAL      | [M]     |
|          |              | DISPLAY TUBE            |         |
| FL6800   | A2BD00000092 | FL DISPLAY              | [M]     |
| FL8101   | F1H0J1050022 | CHIP CAPACITOR          | [M]     |
| FL8102   | F1H0J1050022 | CHIP CAPACITOR          | [M]     |
| FL8103   | F1H0J1050022 | CHIP CAPACITOR          | [M]     |
| FL8104   | F1J1E1040022 | CHIP CAPACITOR          | [M]     |
|          |              | FUSES                   |         |
| F1       | K5D202BL0007 | FUSE 250V T2AL          | [M] △   |
| F3       | K5D632BL0007 | FUSE 250V 6.3A          | [M] △   |
| F4       | K5D632BL0007 | FUSE 250V 6.3A          | [M] △   |
|          |              | FUSE HOLDERS            |         |
| FC1      | EYF52BC      | FUSE HOLDER             | [M]     |
| FC2      | EYF52BC      | FUSE HOLDER             | [M]     |
| FC5      | EYF52BC      | FUSE HOLDER             | [M]     |
| FC6      | EYF52BC      | FUSE HOLDER             | [M]     |
| FC7      | EYF52BC      | FUSE HOLDER             | [M]     |
| FC8      | EYF52BC      | FUSE HOLDER             | [M]     |
|          |              | FUSE PROTECTORS         |         |
| FP5801   | K5G402A00010 | FUSE PROTECTOR          | [M] △   |
| FP5802   | K5G102A00023 | FUSE PROTECTOR          | [M] △   |
|          |              | HOLDERS                 |         |
| H5801    | K1YF15000004 | 15P WIRE HOLDER         | [M]     |
| H5802    | K1YF15000004 | 15P WIRE HOLDER         | [M]     |
| H5803    | RJS1A5508    | 8P WIRE HOLDER          | [M]     |
| H5804    | K1YF10000006 | 10P WIRE HOLDER         | [M]     |
| H5805    | K1YF07000003 | 7P WIRE HOLDER          | [M]     |
| H6800    | RMR0316      | 7P WIRE HOLDER          | [M]     |
| H6801    | K1YZ02000015 | 2P WIRE HOLDER          | [M]     |
| H6805    | RMR0316      | 7P WIRE HOLDER          | [M]     |
| H6806    | RMR0316      | 7P WIRE HOLDER          | [M]     |
|          |              | JACKS                   |         |
| JK500    | K2AA2B000004 | JK AC INLET             | [M] △   |
| JK2801   | K1CB105B0039 | JK S-VIDEO              | [M]     |
| JK2802   | K2HA408B0061 | JK COMP/VIDEO           | [M]     |
| JK2803   | RJH2405L     | JK 4 PIN RCA            | [M]     |
| JK5802   | K4BC04B00083 | JK SPEAKER              | [M]     |
| JK5803   | K4BC04B00082 | JK SPEAKER              | [M]     |
| JK5804   | K4BC04B00084 | JK SPEAKER              | [M]     |
| JK6800   | K2HB102J0038 | JK                      | [M]     |
| JK6801   | K2HC103A0023 | JK SMALL SIGN           | [M]     |
| JK6802   | K2HB102J0038 | JK                      | [M]     |
|          |              | EARTH TERMINAL          |         |
| E5801    | SNE1004-2    | EARTH TERMINAL          | [M]     |
|          |              | WIRES                   |         |
| W1       | REE0971      | WIRE (YELLOW)           | [M]     |
| W4       | REEX0061     | WIRE (BLACK)            | [M]     |
| W1002    | RWJ0102050CK | M/MECHA MOTOR WIRE      | [M]     |
| W5801    | REXX0304     | 15P FLATE WIRE          | [M]     |
| W5802    | REXX0304     | 15P FLATE WIRE          | [M]     |

| Ref. No. | Part No.     | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| W5803    | REXX0302     | 8P FLAT WIRE            | [M]     |
| W5804    | REXX0297     | 10P FLAT WIRE           | [M]     |
| W5805    | REXX0296     | 7P FLAT WIRE            | [M]     |
| W5808    | REXX0383     | 2P WIRE                 | [M]     |
| W5809    | REXX0431     | 3P STANDBY WIRE         | [M]     |
| W5810    | REXX0382-1   | 3P WIRE                 | [M]     |
| W5811    | REXX0433     | 2P WIRE                 | [M]     |
| W6800    | REXX0419     | 7P FLAT WIRE            | [M]     |
| W6805    | REXX0413     | 7P FLAT WIRE            | [M]     |
|          |              |                         |         |
|          |              | RESISTORS               |         |
|          |              |                         |         |
| R7       | ERJ3GEYJ682V | 6.8K 1/16W              | [M]     |
| R952     | ERDS2TJ821T  | 820 1/4W                | [M]     |
| R953     | ERDS2TJ393T  | 39K 1/4W                | [M]     |
| R972     | ERDS2TJ821T  | 820 1/4W                | [M]     |
| R973     | ERDS2TJ393T  | 39K 1/4W                | [M]     |
| R1001    | ERJ3GEYJ1R0V | 1 1/16W                 | [M]     |
| R1002    | ERJ3GEY0R00V | 0 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    | ERJ3GEYJ183V | 18K 1/16W               | [M]     |
| R1010    | ERJ3GEYJ183V | 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]     |
| R1016    | ERJ3GEYJ470V | 47 1/16W                | [M]     |
| R1017    | ERJ3GEYJ822V | 8.2K 1/16W              | [M]     |
| R1018    | ERJ3GEYJ392V | 3.9K 1/16W              | [M]     |
| R1019    | ERJ3GEYJ392V | 3.9K 1/16W              | [M]     |
| R1020    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R1022    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R1024    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R1025    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R1026    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R1027    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R1028    | ERJ3GEYJ822V | 8.2K 1/16W              | [M]     |
| R1029    | ERJ3GEYJ475V | 4.7M 1/16W              | [M]     |
| R1030    | ERJ3GEYJ101V | 100 1/16W               | [M]     |
| R1031    | ERJ3GEYJ273V | 27K 1/16W               | [M]     |
| R1032    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R1035    | ERJ3GEYJ103V | 10K 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    | ERJ3GEYJ103V | 10K 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]     |

| Ref. No. | Part No.     | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| R1095    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R1096    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R1097    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R1098    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R1099    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R1100    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R1101    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2100    | ERJ3GEYJ123V | 12K 1/16W               | [M]     |
| R2101    | ERJ3GEYJ2R2V | 2.2 1/16W               | [M]     |
| R2102    | ERJ3GEYJ473V | 47K 1/16W               | [M]     |
| R2103    | ERJ3GEYJ101V | 100 1/16W               | [M]     |
| R2104    | ERJ3GEYJ333V | 33K 1/16W               | [M]     |
| R2105    | ERJ3GEYJ562V | 5.6K 1/16W              | [M]     |
| R2106    | ERJ3GEYJ333V | 33K 1/16W               | [M]     |
| R2107    | ERJ3GEYJ471V | 470 1/16W               | [M]     |
| R2109    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2110    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R2111    | ERJ3GEYJ272V | 2.7K 1/16W              | [M]     |
| R2114    | ERJ3GEYJ822V | 8.2K 1/16W              | [M]     |
| R2115    | ERJ3GEYJ273V | 27K 1/16W               | [M]     |
| R2117    | ERJ3GEYJ123V | 12K 1/16W               | [M]     |
| R2120    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R2122    | ERJ3GEYJ393V | 39K 1/16W               | [M]     |
| R2123    | ERJ3GEYJ470V | 47 1/16W                | [M]     |
| R2124    | ERJ3GEYJ470V | 47 1/16W                | [M]     |
| R2125    | ERJ3GEYJ470V | 47 1/16W                | [M]     |
| R2126    | ERJ3GEYJ470V | 47 1/16W                | [M]     |
| R2127    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R2128    | ERJ3GEYJ100V | 10 1/16W                | [M]     |
| R2129    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R2130    | ERJ3GEYJ123V | 12K 1/16W               | [M]     |
| R2131    | ERJ3GEYJ683V | 68K 1/16W               | [M]     |
| R2132    | ERJ3GEYJ272V | 2.7K 1/16W              | [M]     |
| R2133    | ERJ3GEYJ563V | 56K 1/16W               | [M]     |
| R2135    | ERJ3GEYJ223V | 22K 1/16W               | [M]     |
| R2136    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R2137    | ERJ3GEYJ223V | 22K 1/16W               | [M]     |
| R2138    | ERJ3GEYJ562V | 5.6K 1/16W              | [M]     |
| R2140    | ERJ3GEYJ123V | 12K 1/16W               | [M]     |
| R2141    | ERJ3GEYJ473V | 47K 1/16W               | [M]     |
| R2142    | ERJ3GEYJ473V | 47K 1/16W               | [M]     |
| R2143    | ERJ3GEYJ123V | 12K 1/16W               | [M]     |
| R2144    | ERJ3GEYJ223V | 22K 1/16W               | [M]     |
| R2145    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R2146    | ERJ3GEYJ822V | 8.2K 1/16W              | [M]     |
| R2148    | ERJ3GEYJ822V | 8.2K 1/16W              | [M]     |
| R2149    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2150    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2151    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2152    | ERJ3GEYJ822V | 8.2K 1/16W              | [M]     |
| R2153    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R2154    | ERJ3GEYJ334V | 330K 1/16W              | [M]     |
| R2155    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R2156    | ERJ3GEYJ473V | 47K 1/16W               | [M]     |
| R2157    | ERJ3GEYJ332V | 3.3K 1/16W              | [M]     |
| R2158    | ERJ3GEYJ273V | 27K 1/16W               | [M]     |
| R2159    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R2160    | ERJ3GEYJ183V | 18K 1/16W               | [M]     |
| R2161    | ERJ3GEYJ123V | 12K 1/16W               | [M]     |
| R2162    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2164    | ERJ3GEYJ332V | 3.3K 1/16W              | [M]     |
| R2165    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R2167    | ERJ3GEYJ222V | 2.2K 1/16W              | [M]     |
| R2168    | ERJ3GEYJ682V | 6.8K 1/16W              | [M]     |
| R2169    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2170    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2171    | ERJ3GEYJ153V | 15K 1/16W               | [M]     |
| R2172    | ERJ3GEYJ821V | 820 1/16W               | [M]     |
| R2200    | ERJ3GEYJ473V | 47K 1/16W               | [M]     |
| R2201    | ERJ3GEYJ101V | 100 1/16W               | [M]     |
| R2202    | ERJ3GEYJ333V | 33K 1/16W               | [M]     |
| R2203    | ERJ3GEYJ562V | 5.6K 1/16W              | [M]     |
| R2204    | ERJ3GEYJ333V | 33K 1/16W               | [M]     |
| R2205    | ERJ3GEYJ471V | 470 1/16W               | [M]     |



| Ref. No. | Part No.     | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| R2207    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2208    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R2209    | ERJ3GEYJ272V | 2.7K 1/16W              | [M]     |
| R2212    | ERJ3GEYJ822V | 8.2K 1/16W              | [M]     |
| R2213    | ERJ3GEYJ273V | 27K 1/16W               | [M]     |
| R2215    | ERJ3GEYJ123V | 12K 1/16W               | [M]     |
| R2218    | ERJ3GEYJ224V | 220K 1/16W              | [M]     |
| R2219    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R2220    | ERDS1FVJ680T | 68 1/2W                 | [M]     |
| R2221    | ERJ3GEYJ393V | 39K 1/16W               | [M]     |
| R2222    | ERJ3GEYJ470V | 47 1/16W                | [M]     |
| R2223    | ERJ3GEYJ470V | 47 1/16W                | [M]     |
| R2224    | ERJ3GEYJ470V | 47 1/16W                | [M]     |
| R2225    | ERJ3GEYJ470V | 47 1/16W                | [M]     |
| R2226    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R2227    | ERJ3GEYJ100V | 10 1/16W                | [M]     |
| R2229    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R2230    | ERJ3GEYJ123V | 12K 1/16W               | [M]     |
| R2232    | ERJ3GEYJ123V | 12K 1/16W               | [M]     |
| R2233    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2234    | ERJ3GEYJ683V | 68K 1/16W               | [M]     |
| R2235    | ERJ3GEYJ272V | 2.7K 1/16W              | [M]     |
| R2236    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R2237    | ERJ3GEYJ223V | 22K 1/16W               | [M]     |
| R2238    | ERJ3GEYJ223V | 22K 1/16W               | [M]     |
| R2239    | ERJ3GEYJ562V | 5.6K 1/16W              | [M]     |
| R2241    | ERJ3GEYJ123V | 12K 1/16W               | [M]     |
| R2242    | ERJ3GEYJ473V | 47K 1/16W               | [M]     |
| R2243    | ERJ3GEYJ473V | 47K 1/16W               | [M]     |
| R2244    | ERJ3GEYJ123V | 12K 1/16W               | [M]     |
| R2245    | ERJ3GEYJ822V | 8.2K 1/16W              | [M]     |
| R2247    | ERJ3GEYJ822V | 8.2K 1/16W              | [M]     |
| R2248    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2249    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2250    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2251    | ERJ3GEYJ822V | 8.2K 1/16W              | [M]     |
| R2252    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R2253    | ERJ3GEYJ334V | 330K 1/16W              | [M]     |
| R2254    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R2255    | ERJ3GEYJ473V | 47K 1/16W               | [M]     |
| R2256    | ERJ3GEYJ332V | 3.3K 1/16W              | [M]     |
| R2257    | ERJ3GEYJ273V | 27K 1/16W               | [M]     |
| R2258    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R2259    | ERJ3GEYJ183V | 18K 1/16W               | [M]     |
| R2260    | ERJ3GEYJ123V | 12K 1/16W               | [M]     |
| R2261    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2262    | ERJ3GEYJ332V | 3.3K 1/16W              | [M]     |
| R2263    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R2264    | ERJ3GEYJ222V | 2.2K 1/16W              | [M]     |
| R2265    | ERJ3GEYJ563V | 56K 1/16W               | [M]     |
| R2266    | ERJ3GEYJ682V | 6.8K 1/16W              | [M]     |
| R2267    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2268    | ERJ3GEYJ153V | 15K 1/16W               | [M]     |
| R2269    | ERJ3GEYJ821V | 820 1/16W               | [M]     |
| R2300    | ERJ3GEYJ273V | 27K 1/16W               | [M]     |
| R2301    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R2302    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R2303    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R2304    | ERJ3GEYJ153V | 15K 1/16W               | [M]     |
| R2305    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R2306    | ERJ3GEYJ182V | 1.8K 1/16W              | [M]     |
| R2307    | ERJ3GEYJ563V | 56K 1/16W               | [M]     |
| R2312    | ERJ3GEYJ273V | 27K 1/16W               | [M]     |
| R2313    | ERJ3GEYJ223V | 22K 1/16W               | [M]     |
| R2314    | ERJ3GEYJ223V | 22K 1/16W               | [M]     |
| R2315    | ERJ3GEYJ223V | 22K 1/16W               | [M]     |
| R2317    | ERJ3GEYJ473V | 47K 1/16W               | [M]     |
| R2318    | ERJ3GEYJ333V | 33K 1/16W               | [M]     |
| R2319    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R2320    | ERJ3GEYJ223V | 22K 1/16W               | [M]     |
| R2321    | ERJ3GEYJ563V | 56K 1/16W               | [M]     |
| R2322    | ERJ3GEYJ223V | 22K 1/16W               | [M]     |
| R2323    | ERJ3GEYJ182V | 1.8K 1/16W              | [M]     |
| R2324    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |

| Ref. No. | Part No.     | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| R2325    | ERJ3GEYJ563V | 56K 1/16W               | [M]     |
| R2335    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2336    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2337    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2338    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2339    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2340    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2341    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2342    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R2343    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2400    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R2401    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R2402    | ERJ3GEYJ153V | 15K 1/16W               | [M]     |
| R2403    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R2404    | ERJ3GEYJ182V | 1.8K 1/16W              | [M]     |
| R2410    | ERJ3GEYJ273V | 27K 1/16W               | [M]     |
| R2411    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R2412    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2413    | ERJ3GEYJ563V | 56K 1/16W               | [M]     |
| R2500    | ERJ3GEYJ123V | 12K 1/16W               | [M]     |
| R2501    | ERJ3GEYJ682V | 6.8K 1/16W              | [M]     |
| R2502    | ERJ3GEYJ153V | 15K 1/16W               | [M]     |
| R2503    | ERJ3GEYJ333V | 33K 1/16W               | [M]     |
| R2504    | ERJ3GEYJ271V | 270 1/16W               | [M]     |
| R2508    | ERJ3GEYJ563V | 56K 1/16W               | [M]     |
| R2514    | ERJ3GEYJ333V | 33K 1/16W               | [M]     |
| R2515    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R2516    | ERJ3GEYJ273V | 27K 1/16W               | [M]     |
| R2517    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R2518    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R2520    | ERJ3GEYJ562V | 5.6K 1/16W              | [M]     |
| R2521    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2522    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2523    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R2524    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R2600    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R2601    | ERJ3GEYJ333V | 33K 1/16W               | [M]     |
| R2602    | ERJ3GEYJ392V | 3.9K 1/16W              | [M]     |
| R2603    | ERJ3GEYJ333V | 33K 1/16W               | [M]     |
| R2604    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R2605    | ERJ3GEYJ562V | 5.6K 1/16W              | [M]     |
| R2606    | ERJ3GEYJ563V | 56K 1/16W               | [M]     |
| R2607    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R2608    | ERJ3GEYJ333V | 33K 1/16W               | [M]     |
| R2609    | ERJ3GEYJ332V | 3.3K 1/16W              | [M]     |
| R2610    | ERJ3GEYJ563V | 56K 1/16W               | [M]     |
| R2611    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R2612    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2613    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2630    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2631    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2632    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2633    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2634    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2635    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2636    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2637    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2638    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2639    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2642    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2643    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2644    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2645    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2646    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R2801    | ERJ3GEYJ1R0V | 1 1/16W                 | [M]     |
| R2802    | ERJ3GEYJ1R0V | 1 1/16W                 | [M]     |
| R2803    | ERJ3GEYJ1R0V | 1 1/16W                 | [M]     |
| R2804    | ERJ3GEYJ1R0V | 1 1/16W                 | [M]     |
| R2805    | ERJ3GEYJ1R0V | 1 1/16W                 | [M]     |
| R2806    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R2807    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R2808    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R2809    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R2811    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |

| Ref. No. | Part No.     | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| R2812    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R2813    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R2814    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R2816    | ERJ3GEYJ331V | 330 1/16W               | [M]     |
| R2817    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R2819    | ERJ3GEYJ222V | 2.2K 1/16W              | [M]     |
| R2820    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R2821    | D0HB750ZA003 | 75 3W                   | [M]     |
| R2822    | D0HB750ZA003 | 75 3W                   | [M]     |
| R2823    | D0HB750ZA003 | 75 3W                   | [M]     |
| R2824    | D0HB750ZA003 | 75 3W                   | [M]     |
| R2825    | D0HB750ZA003 | 75 3W                   | [M]     |
| R2826    | ERJ3GEYD750V | 75 1/16W                | [M]     |
| R2827    | ERJ3GEYOR00V | 0 1/16W                 | [M]     |
| R2828    | ERJ3GEYOR00V | 0 1/16W                 | [M]     |
| R2829    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R2830    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R2831    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R2832    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R2833    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R2834    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R2836    | ERJ3GEYJ1R0V | 1 1/16W                 | [M]     |
| R2837    | ERJ3GEYJ1R0V | 1 1/16W                 | [M]     |
| R2843    | ERJ3GEYJ221V | 220 1/16W               | [M]     |
| R2852    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R2853    | ERJ3GEYJ332V | 3.3K 1/16W              | [M]     |
| R2855    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R2856    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R2857    | ERJ3GEYJ563V | 56K 1/16W               | [M]     |
| R2858    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R2859    | ERJ3GEYOR00V | 0 1/16W                 | [M]     |
| R2860    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R2862    | ERJ3GEYJ682V | 6.8K 1/16W              | [M]     |
| R2863    | ERJ3GEYJ563V | 56K 1/16W               | [M]     |
| R2864    | ERJ3GEYJ222V | 2.2K 1/16W              | [M]     |
| R2865    | ERJ3GEYOR00V | 0 1/16W                 | [M]     |
| R2866    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R2867    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R2868    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R2869    | ERJ3GEYJ563V | 56K 1/16W               | [M]     |
| R2870    | ERJ3GEYJ563V | 56K 1/16W               | [M]     |
| R2871    | ERJ3GEYOR00V | 0 1/16W                 | [M]     |
| R2872    | ERJ3GEYJ563V | 56K 1/16W               | [M]     |
| R2873    | ERJ3GEYJ563V | 56K 1/16W               | [M]     |
| R2876    | ERJ3GEYJ563V | 56K 1/16W               | [M]     |
| R2877    | ERJ3GEYJ563V | 56K 1/16W               | [M]     |
| R2878    | ERJ3GEYJ563V | 56K 1/16W               | [M]     |
| R2879    | ERJ3GEYJ563V | 56K 1/16W               | [M]     |
| R2881    | ERJ3GEYOR00V | 0 1/16W                 | [M]     |
| R2882    | ERJ3GEYOR00V | 0 1/16W                 | [M]     |
| R2883    | ERJ3GEYJ563V | 56K 1/16W               | [M]     |
| R2884    | ERJ3GEYJ563V | 56K 1/16W               | [M]     |
| R2885    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R2887    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R2888    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R2889    | ERJ3GEYJ332V | 3.3K 1/16W              | [M]     |
| R2890    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R2891    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R2892    | ERDS1FVJ220T | 22 1/2W                 | [M]     |
| R2893    | ERJ3GEYJ224V | 220K 1/16W              | [M]     |
| R2894    | ERJ3GEYJ101V | 100 1/16W               | [M]     |
| R2895    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R2896    | ERJ3GEYJ225V | 2.2M 1/16W              | [M]     |
| R2897    | ERJ3GEYJ225V | 2.2M 1/16W              | [M]     |
| R2898    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R2899    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R2900    | ERJ3GEYJ332V | 3.3K 1/16W              | [M]     |
| R2901    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R2902    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R2903    | ERJ3GEYJ563V | 56K 1/16W               | [M]     |
| R2904    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R2905    | ERJ3GEYJ224V | 220K 1/16W              | [M]     |
| R2906    | ERJ3GEYJ101V | 100 1/16W               | [M]     |
| R2907    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |

| Ref. No. | Part No.     | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| R2908    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R2909    | ERJ3GEYJ563V | 56K 1/16W               | [M]     |
| R2910    | ERJ3GEYJ223V | 22K 1/16W               | [M]     |
| R2911    | ERJ3GEYJ223V | 22K 1/16W               | [M]     |
| R2912    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R2913    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R2914    | ERJ3GEYOR00V | 0 1/16W                 | [M]     |
| R2915    | ERDS1FVJ220T | 22 1/2W                 | [M]     |
| R2918    | ERJ3GEYJ224V | 220K 1/16W              | [M]     |
| R2920    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R2921    | ERJ3GEYJ332V | 3.3K 1/16W              | [M]     |
| R2935    | ERJ3GEYJ153V | 15K 1/16W               | [M]     |
| R2938    | ERJ3GEYJ392V | 3.9K 1/16W              | [M]     |
| R2939    | ERJ3GEYJ562V | 5.6K 1/16W              | [M]     |
| R2940    | ERJ3GEYJ123V | 12K 1/16W               | [M]     |
| R2941    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R2942    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R2943    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R2944    | ERJ3GEYJ153V | 15K 1/16W               | [M]     |
| R2945    | ERJ3GEYOR00V | 0 1/16W                 | [M]     |
| R2946    | ERJ3GEYJ123V | 12K 1/16W               | [M]     |
| R2947    | ERJ3GEYJ100V | 10 1/16W                | [M]     |
| R2948    | ERJ3GEYOR00V | 0 1/16W                 | [M]     |
| R2949    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R2950    | ERJ3GEYJ222V | 2.2K 1/16W              | [M]     |
| R2951    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R2952    | ERDS1FVJ680T | 68 1/2W                 | [M]     |
| R2955    | ERJ3GEYJ221V | 220 1/16W               | [M]     |
| R2956    | ERJ3GEYJ221V | 220 1/16W               | [M]     |
| R2957    | ERJ3GEYJ124V | 120K 1/16W              | [M]     |
| R2958    | ERJ3GEYOR00V | 0 1/16W                 | [M]     |
| R2959    | ERJ3GEYJ224V | 220K 1/16W              | [M]     |
| R2960    | ERJ3GEYJ153V | 15K 1/16W               | [M]     |
| R2961    | ERJ3GEYJ222V | 2.2K 1/16W              | [M]     |
| R2962    | ERJ3GEYJ222V | 2.2K 1/16W              | [M]     |
| R2963    | ERJ3GEYJ393V | 39K 1/16W               | [M]     |
| R2964    | ERJ3GEYJ153V | 15K 1/16W               | [M]     |
| R2965    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R2967    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R2968    | ERJ3GEYJ473V | 47K 1/16W               | [M]     |
| R2969    | ERDS1FVJ680T | 68 1/2W                 | [M]     |
| R2970    | ERJ3GEYJ471V | 470 1/16W               | [M]     |
| R2971    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R2972    | ERJ3GEYJ471V | 470 1/16W               | [M]     |
| R2973    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R2974    | ERJ3GEYJ101V | 100 1/16W               | [M]     |
| R2975    | ERJ3GEYOR00V | 0 1/16W                 | [M]     |
| R2976    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R2977    | ERJ3GEYJ182V | 1.8K 1/16W              | [M]     |
| R2978    | ERJ3GEYOR00V | 0 1/16W                 | [M]     |
| R2979    | ERJ3GEYOR00V | 0 1/16W                 | [M]     |
| R2980    | ERJ3GEYOR00V | 0 1/16W                 | [M]     |
| R2981    | ERJ3GEYOR00V | 0 1/16W                 | [M]     |
| R2982    | ERJ3GEYOR00V | 0 1/16W                 | [M]     |
| R2983    | ERJ3GEYOR00V | 0 1/16W                 | [M]     |
| R2984    | ERJ3GEYOR00V | 0 1/16W                 | [M]     |
| R2985    | ERJ3GEYOR00V | 0 1/16W                 | [M]     |
| R2986    | ERJ3GEYOR00V | 0 1/16W                 | [M]     |
| R2987    | ERJ3GEYOR00V | 0 1/16W                 | [M]     |
| R2988    | ERJ3GEYJ2R2V | 2.2 1/16W               | [M]     |
| R2989    | ERJ3GEYOR00V | 0 1/16W                 | [M]     |
| R2990    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R2991    | ERJ3GEYOR00V | 0 1/16W                 | [M]     |
| R2992    | ERJ3GEYOR00V | 0 1/16W                 | [M]     |
| R2993    | ERJ3GEYOR00V | 0 1/16W                 | [M]     |
| R2994    | ERJ3GEYOR00V | 0 1/16W                 | [M]     |
| R2995    | ERJ3GEYOR00V | 0 1/16W                 | [M]     |
| R2996    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R2998    | ERJ3GEYOR00V | 0 1/16W                 | [M]     |
| R2999    | ERJ3GEYOR00V | 0 1/16W                 | [M]     |
| R5100    | ERDS2TJ153T  | 15K 1/4W                | [M]     |
| R5102    | ERDS2TJ563T  | 56K 1/4W                | [M]     |
| R5105    | ERDS1FVJ100T | 10 1/2W                 | [M]     |
| R5200    | ERDS2TJ153T  | 15K 1/4W                | [M]     |

| Ref. No. | Part No.     | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| R5202    | ERDS2TJ563T  | 56K 1/4W                | [M]     |
| R5205    | ERDS1FVJ100T | 10 1/2W                 | [M]     |
| R5300    | ERDS2TJ272T  | 2.7K 1/4W               | [M]     |
| R5301    | ERDS2TJ563T  | 56K 1/4W                | [M]     |
| R5302    | ERDS2TJ153T  | 15K 1/4W                | [M]     |
| R5303    | ERDS1FVJ100T | 10 1/2W                 | [M]     |
| R5400    | ERDS2TJ153T  | 15K 1/4W                | [M]     |
| R5401    | ERDS2TJ272T  | 2.7K 1/4W               | [M]     |
| R5402    | ERDS2TJ563T  | 56K 1/4W                | [M]     |
| R5403    | ERDS1FVJ100T | 10 1/2W                 | [M]     |
| R5500    | ERDS2TJ153T  | 15K 1/4W                | [M]     |
| R5501    | ERDS2TJ332T  | 3.3K 1/4W               | [M]     |
| R5502    | ERDS2TJ563T  | 56K 1/4W                | [M]     |
| R5503    | ERDS1FVJ100T | 10 1/2W                 | [M]     |
| R5600    | ERDS2TJ153T  | 15K 1/4W                | [M]     |
| R5601    | ERDS2TJ472T  | 4.7K 1/4W               | [M]     |
| R5602    | ERDS2TJ563T  | 56K 1/4W                | [M]     |
| R5605    | ERDS1FVJ100T | 10 1/2W                 | [M]     |
| R5650    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R5652    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R5801    | ERDS2TJ474T  | 470K 1/4W               | [M]     |
| R5802    | ERDS2TJ102T  | 1K 1/4W                 | [M]     |
| R5803    | ERDS2TJ681T  | 680 1/4W                | [M]     |
| R5804    | ERDS2TJ393T  | 39K 1/4W                | [M]     |
| R5805    | ERDS2TJ103T  | 10K 1/4W                | [M]     |
| R5806    | ERDS2TJ104T  | 100K 1/4W               | [M]     |
| R5807    | ERDS1FVJ2R2T | 2.2 1/2W                | [M]     |
| R5808    | ERG2SJ220E   | 22 2W                   | [M]     |
| R5809    | ERDS2TJ152T  | 1.5K 1/4W               | [M]     |
| R5810    | ERDS2TJ152T  | 1.5K 1/4W               | [M]     |
| R5811    | ERDS2TJ473T  | 47K 1/4W                | [M]     |
| R5812    | ERDS2TJ473T  | 47K 1/4W                | [M]     |
| R5813    | ERDS2TJ473T  | 47K 1/4W                | [M]     |
| R5814    | ERDS2TJ473T  | 47K 1/4W                | [M]     |
| R5815    | ERDS2TJ104T  | 100K 1/4W               | [M]     |
| R5816    | ERDS2TJ104T  | 100K 1/4W               | [M]     |
| R5817    | ERDS2TJ223T  | 22K 1/4W                | [M]     |
| R5818    | ERDS2TJ223T  | 22K 1/4W                | [M]     |
| R5819    | ERG2SJ220E   | 22 2W                   | [M]     |
| R5820    | ERD2FCVJ4R7T | 4.7 1/4W                | [M]     |
| R5821    | ERDS2TJ272T  | 2.7K 1/4W               | [M]     |
| R5822    | ERDS2TJ473T  | 47K 1/4W                | [M]     |
| R5823    | ERDS2TJ822T  | 8.2K 1/4W               | [M]     |
| R5824    | ERDS2TJ562T  | 5.6K 1/4W               | [M]     |
| R5825    | ERDS2TJ473T  | 47K 1/4W                | [M]     |
| R5826    | ERDS2TJ272T  | 2.7K 1/4W               | [M]     |
| R5827    | ERDS2TJ203T  | 20K 1/4W                | [M]     |
| R5828    | ERD2FCVJ4R7T | 4.7 1/4W                | [M]     |
| R5829    | ERDS2TJ223T  | 22K 1/4W                | [M]     |
| R5830    | ERDS2TJ103T  | 10K 1/4W                | [M]     |
| R5831    | ERDS2TJ223T  | 22K 1/4W                | [M]     |
| R5832    | ERDS2TJ332T  | 3.3K 1/4W               | [M]     |
| R5833    | ERDS2TJ103T  | 10K 1/4W                | [M]     |
| R5834    | ERDS2TJ103T  | 10K 1/4W                | [M]     |
| R5835    | ERDS2TJ103T  | 10K 1/4W                | [M]     |
| R5836    | ERDS2TJ333T  | 33K 1/4W                | [M]     |
| R5837    | ERDS2TJ101T  | 100 1/4W                | [M]     |
| R5838    | ERDS2TJ103T  | 10K 1/4W                | [M]     |
| R5839    | ERDS2TJ393T  | 39K 1/4W                | [M]     |
| R5840    | ERDS2TJ472T  | 4.7K 1/4W               | [M]     |
| R5841    | ERDS2TJ563T  | 56K 1/4W                | [M]     |
| R5842    | ERDS2TJ101T  | 100 1/4W                | [M]     |
| R5843    | ERDS2TJ104T  | 100K 1/4W               | [M]     |
| R5844    | ERDS2TJ331T  | 330 1/4W                | [M]     |
| R5845    | ERDS2TJ474T  | 470K 1/4W               | [M]     |
| R5846    | ERDS2TJ102T  | 1K 1/4W                 | [M]     |
| R5849    | ERDS2TJ122T  | 1.2K 1/4W               | [M]     |
| R5850    | ERDS2TJ152T  | 1.5K 1/4W               | [M]     |
| R5851    | ERDS1FVJ220T | 22 1/2W                 | [M]     |
| R5852    | ERDS1FVJ180T | 18 1/2W                 | [M]     |
| R5853    | ERDS1FVJ120T | 12 1/2W                 | [M]     |
| R5856    | ERDS2TJ151T  | 150 1/4W                | [M]     |
| R5857    | ERD2FCVJ4R7T | 4.7 1/4W                | [M]     |
| R5858    | ERDS2TJ472T  | 4.7K 1/4W               | [M]     |

| Ref. No. | Part No.     | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| R5859    | ERDS2TJ332T  | 3.3K 1/4W               | [M]     |
| R5860    | ERDS2TJ824T  | 820K 1/4W               | [M]     |
| R5865    | ERDS2TJ184T  | 180K 1/4W               | [M]     |
| R5866    | ERDS2TJ683T  | 68K 1/4W                | [M]     |
| R5868    | ERDS2TJ103T  | 10K 1/4W                | [M]     |
| R5869    | ERDS2TJ103T  | 10K 1/4W                | [M]     |
| R5870    | ERDS2TJ103T  | 10K 1/4W                | [M]     |
| R5871    | ERDS2TJ103T  | 10K 1/4W                | [M]     |
| R5872    | ERDS2TJ394T  | 390K 1/4W               | [M]     |
| R5873    | ERDS2TJ104T  | 100K 1/4W               | [M]     |
| R5874    | ERDS2TJ394T  | 390K 1/4W               | [M]     |
| R5875    | ERDS2TJ394T  | 390K 1/4W               | [M]     |
| R5876    | ERDS2TJ103T  | 10K 1/4W                | [M]     |
| R5877    | ERDS2TJ103T  | 10K 1/4W                | [M]     |
| R5878    | ERDS2TJ103T  | 10K 1/4W                | [M]     |
| R5879    | ERDS2TJ103T  | 10K 1/4W                | [M]     |
| R5880    | ERDS2TJ104T  | 100K 1/4W               | [M]     |
| R5881    | ERDS2TJ184T  | 180K 1/4W               | [M]     |
| R5882    | ERDS2TJ394T  | 390K 1/4W               | [M]     |
| R5883    | ERDS2TJ394T  | 390K 1/4W               | [M]     |
| R5887    | ERG2SJ220E   | 22 2W                   | [M]     |
| R5888    | ERDS2TJ681T  | 680 1/4W                | [M]     |
| R5889    | ERDS2TJ100T  | 10 1/4W                 | [M]     |
| R5890    | ERDS2TJ100T  | 10 1/4W                 | [M]     |
| R5891    | ERDS2TJ100T  | 10 1/4W                 | [M]     |
| R5892    | ERDS2TJ100T  | 10 1/4W                 | [M]     |
| R5893    | ERDS2TJ100T  | 10 1/4W                 | [M]     |
| R6000    | ERJ3GEYJ272V | 2.7K 1/16W              | [M]     |
| R6041    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R6042    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R6043    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R6044    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R6045    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R6046    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R6047    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R6048    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R6049    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R6050    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R6051    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R6052    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R6101    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R6103    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R6104    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R6105    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R6106    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R6107    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R6108    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R6214    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R6215    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R6216    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R6217    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R6218    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R6219    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R6220    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R6221    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R6222    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R6224    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R6225    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R6227    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R6228    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R6229    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R6230    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R6231    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R6232    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R6233    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R6234    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R6235    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R6800    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R6802    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R6803    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R6804    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R6805    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R6806    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R6807    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |

| Ref. No. | Part No.     | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| R6808    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R6809    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R6810    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R6811    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R6812    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R6813    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R6814    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R6818    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R6819    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R6820    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R6821    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R6822    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R6824    | ERJ3GEYJ223V | 22K 1/16W               | [M]     |
| R6825    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R6826    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R6827    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R6828    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R6829    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R6830    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R6831    | ERJ3GEYJ101V | 100 1/16W               | [M]     |
| R6833    | ERJ3GEYJ101V | 100 1/16W               | [M]     |
| R6834    | ERJ3GEYJ101V | 100 1/16W               | [M]     |
| R6835    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R6836    | ERJ3GEYJ101V | 100 1/16W               | [M]     |
| R6837    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R6838    | ERJ3GEYJ272V | 2.7K 1/16W              | [M]     |
| R6839    | ERJ3GEYJ223V | 22K 1/16W               | [M]     |
| R6840    | ERJ3GEYJ101V | 100 1/16W               | [M]     |
| R6841    | ERJ3GEYJ101V | 100 1/16W               | [M]     |
| R6842    | ERJ3GEYJ000V | 0 1/16W                 | [M]     |
| R6843    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R6844    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R6845    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R6846    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R6847    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R6848    | ERJ3GEYJ272V | 2.7K 1/16W              | [M]     |
| R6849    | ERJ3GEYJ272V | 2.7K 1/16W              | [M]     |
| R6850    | ERJ3GEYJ272V | 2.7K 1/16W              | [M]     |
| R6851    | ERJ3GEYJ272V | 2.7K 1/16W              | [M]     |
| R6854    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R6855    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R6856    | ERJ3GEYJ122V | 1.2K 1/16W              | [M]     |
| R6857    | ERJ3GEYJ182V | 1.8K 1/16W              | [M]     |
| R6858    | ERJ3GEYJ222V | 2.2K 1/16W              | [M]     |
| R6859    | ERJ3GEYJ272V | 2.7K 1/16W              | [M]     |
| R6860    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R6861    | ERJ3GEYJ682V | 6.8K 1/16W              | [M]     |
| R6862    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R6863    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R6864    | ERJ3GEYJ473V | 47K 1/16W               | [M]     |
| R6865    | ERJ3GEYJ473V | 47K 1/16W               | [M]     |
| R6866    | ERJ3GEYJ563V | 56K 1/16W               | [M]     |
| R6867    | ERJ3GEYJ470V | 47 1/16W                | [M]     |
| R6868    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R6869    | ERJ3GEYJ392V | 3.9K 1/16W              | [M]     |
| R6870    | ERJ3GEYJ563V | 56K 1/16W               | [M]     |
| R6871    | ERJ3GEYJ470V | 47 1/16W                | [M]     |
| R6872    | ERJ3GEYJ000V | 0 1/16W                 | [M]     |
| R6873    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R6874    | ERJ3GEYJ000V | 0 1/16W                 | [M]     |
| R6875    | ERJ3GEYJ101V | 100 1/16W               | [M]     |
| R6876    | ERJ3GEYJ000V | 0 1/16W                 | [M]     |
| R6877    | ERJ3GEYJ223V | 22K 1/16W               | [M]     |
| R6878    | ERJ3GEYJ000V | 0 1/16W                 | [M]     |
| R6879    | ERJ3GEYJ123V | 12K 1/16W               | [M]     |
| R6881    | ERJ3GEYJ101V | 100 1/16W               | [M]     |
| R6885    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R6886    | ERJ3GEYJ222V | 2.2K 1/16W              | [M]     |
| R6887    | ERJ3GEYJ474V | 470K 1/16W              | [M]     |
| R6888    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R6889    | ERJ3GEYJ183V | 18K 1/16W               | [M]     |
| R6890    | ERJ3GEYJ681V | 680 1/16W               | [M]     |
| R6891    | ERJ3GEYJ681V | 680 1/16W               | [M]     |
| R6892    | ERJ3GEYJ561V | 560 1/16W               | [M]     |

| Ref. No. | Part No.     | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| R6893    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R6894    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R6895    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R6896    | ERJ3GEYJ101V | 100 1/16W               | [M]     |
| R6897    | ERJ3GEYJ101V | 100 1/16W               | [M]     |
| R6898    | ERJ3GEYJ101V | 100 1/16W               | [M]     |
| R6899    | ERJ3GEYJ101V | 100 1/16W               | [M]     |
| R6900    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R6901    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R6902    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R6903    | ERJ3GEYJ101V | 100 1/16W               | [M]     |
| R6904    | ERJ3GEYJ101V | 100 1/16W               | [M]     |
| R6905    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R6906    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R6909    | ERJ3GEYJ000V | 0 1/16W                 | [M]     |
| R6910    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R6912    | ERJ3GEYJ101V | 100 1/16W               | [M]     |
| R6913    | ERJ3GEYJ101V | 100 1/16W               | [M]     |
| R6914    | ERJ3GEYJ101V | 100 1/16W               | [M]     |
| R6915    | ERJ3GEYJ101V | 100 1/16W               | [M]     |
| R6916    | ERJ3GEYJ101V | 100 1/16W               | [M]     |
| R6917    | ERJ3GEYJ101V | 100 1/16W               | [M]     |
| R6918    | ERJ3GEYJ101V | 100 1/16W               | [M]     |
| R6919    | ERJ3GEYJ101V | 100 1/16W               | [M]     |
| R6920    | ERJ3GEYJ101V | 100 1/16W               | [M]     |
| R6921    | ERJ3GEYJ101V | 100 1/16W               | [M]     |
| R6922    | ERJ3GEYJ153V | 15K 1/16W               | [M]     |
| R6924    | ERJ3GEYJ101V | 100 1/16W               | [M]     |
| R6925    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R6926    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R6927    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R6928    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R6929    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R6930    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R6931    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R6932    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R6933    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R6934    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R6935    | ERJ3GEYJ473V | 47K 1/16W               | [M]     |
| R6937    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R6938    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R6939    | ERJ3GEYJ122V | 1.2K 1/16W              | [M]     |
| R6940    | ERJ3GEYJ182V | 1.8K 1/16W              | [M]     |
| R6941    | ERJ3GEYJ222V | 2.2K 1/16W              | [M]     |
| R6943    | ERJ3GEYJ681V | 680 1/16W               | [M]     |
| R6944    | ERJ3GEYJ473V | 47K 1/16W               | [M]     |
| R6945    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R6946    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R6947    | ERJ3GEYJ223V | 22K 1/16W               | [M]     |
| R6948    | ERJ3GEYJ681V | 680 1/16W               | [M]     |
| R6950    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R6951    | ERJ3GEYJ106V | 10M 1/16W               | [M]     |
| R6952    | ERJ3GEYJ331V | 330 1/16W               | [M]     |
| R6953    | ERJ3GEYJ223V | 22K 1/16W               | [M]     |
| R6954    | ERJ3GEYJ474V | 470K 1/16W              | [M]     |
| R6956    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R6957    | ERJ3GEYJ474V | 470K 1/16W              | [M]     |
| R6958    | ERJ3GEYJ000V | 0 1/16W                 | [M]     |
| R6959    | ERD2FCVG470T | 47 1/4W                 | [M]     |
| R6960    | ERD2FCVG470T | 47 1/4W                 | [M]     |
| R6962    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R6963    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R6964    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R6965    | ERJ3GEYJ122V | 1.2K 1/16W              | [M]     |
| R6966    | ERJ3GEYJ182V | 1.8K 1/16W              | [M]     |
| R6967    | ERJ3GEYJ222V | 2.2K 1/16W              | [M]     |
| R6968    | ERJ3GEYJ272V | 2.7K 1/16W              | [M]     |
| R6969    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R6970    | ERJ3GEYJ682V | 6.8K 1/16W              | [M]     |
| R6971    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R6972    | ERJ3GEYJ000V | 0 1/16W                 | [M]     |
| R6973    | ERJ3GEYJ000V | 0 1/16W                 | [M]     |
| R6974    | ERJ3GEYJ223V | 22K 1/16W               | [M]     |
| R6975    | ERJ3GEYJ223V | 22K 1/16W               | [M]     |

| Ref. No. | Part No.     | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| R6976    | ERJ3GEYJ222V | 2.2K 1/16W              | [M]     |
| R6979    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R6980    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R6981    | ERJ3GEYJ334V | 330K 1/16W              | [M]     |
| R6982    | ERJ3GEYJ221V | 220 1/16W               | [M]     |
| R6983    | ERJ3GEYJ822V | 8.2K 1/16W              | [M]     |
| R6984    | ERJ3GEYJ101V | 100 1/16W               | [M]     |
| R6985    | ERJ3GEYJ2R7V | 2.7 1/16W               | [M]     |
| R6986    | ERJ3GEYJ223V | 22K 1/16W               | [M]     |
| R6987    | ERJ3GEYJ334V | 330K 1/16W              | [M]     |
| R6988    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R6989    | ERJ3GEYJ2R7V | 2.7 1/16W               | [M]     |
| R6990    | ERJ3GEYJ223V | 22K 1/16W               | [M]     |
| R6991    | ERJ3GEYJ331V | 330 1/16W               | [M]     |
| R6992    | ERJ3GEYJ101V | 100 1/16W               | [M]     |
| R6993    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R6994    | ERJ3GEYJ472V | 4.7K 1/16W              | [M]     |
| R6995    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R6996    | ERJ3GEYJ270V | 27 1/16W                | [M]     |
| R6997    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R6998    | ERJ3GEYJ272V | 2.7K 1/16W              | [M]     |
| R6999    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R8021    | ERJ2GEJ103X  | 10K 2W                  | [M]     |
| R8022    | ERJ2GEJ103X  | 10K 2W                  | [M]     |
| R8023    | ERJ2GEJ473X  | 47K 2W                  | [M]     |
| R8041    | ERJ2GEJ330X  | 33 2W                   | [M]     |
| R8232    | ERJ2GEJ103X  | 10K 2W                  | [M]     |
| R8233    | ERJ3GEYJ153V | 15K 1/16W               | [M]     |
| R8235    | ERJ3GEYJ822V | 8.2K 1/16W              | [M]     |
| R8236    | ERJ3GEYJ822V | 8.2K 1/16W              | [M]     |
| R8241    | ERJ3GEYJ223V | 22K 1/16W               | [M]     |
| R8242    | ERJ3GEYJ752V | 7.5K 1/16W              | [M]     |
| R8251    | ERJ6GEYJ6R8V | 6.8 1/10W               | [M]     |
| R8271    | ERJ14YKR39H  | 0.39 1/4W               | [M]     |
| R8281    | ERJ3GEYJ101V | 100 1/16W               | [M]     |
| R8282    | ERJ3GEYJ101V | 100 1/16W               | [M]     |
| R8311    | ERJ3RBD242V  | 2.4K 3W                 | [M]     |
| R8312    | ERJ3RBD102V  | 1K 3W                   | [M]     |
| R8313    | ERJ3RBD243V  | 24K 3W                  | [M]     |
| R8315    | ERJ3GEYJ6R8V | 6.8 1/16W               | [M]     |
| R8321    | ERJ3RBD161V  | 160 3W                  | [M]     |
| R8322    | ERJ3RED100V  | 10 3W                   | [M]     |
| R8325    | ERJ3RBD161V  | 160 3W                  | [M]     |
| R8326    | ERJ3RED100V  | 10 3W                   | [M]     |
| R8331    | ERJ3RBD161V  | 160 3W                  | [M]     |
| R8332    | ERJ3RED100V  | 10 3W                   | [M]     |
| R8335    | ERJ3RED820V  | 82 3W                   | [M]     |
| R8341    | ERJ3RED820V  | 82 3W                   | [M]     |
| R8401    | ERJ2GEJ473X  | 47K 2W                  | [M]     |
| R8402    | ERJ2GEJ101X  | 100 2W                  | [M]     |
| R8403    | ERJ2GEJ101X  | 100 2W                  | [M]     |
| R8404    | ERJ2GEJ101X  | 100 2W                  | [M]     |
| R8420    | ERJ3GEYJ222V | 2.2K 1/16W              | [M]     |
| R8451    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R8550    | ERJ3GEYJ752V | 7.5K 1/16W              | [M]     |
| R8551    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R8552    | ERJ3GEYJ331V | 330 1/16W               | [M]     |
| R8553    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R8554    | ERJ3GEYJ220V | 22 1/16W                | [M]     |
| R8555    | ERJ3GEYJ2R2V | 2.2 1/16W               | [M]     |
| R8556    | ERJ3GEYJ560V | 56 1/16W                | [M]     |
| R8557    | ERJ3GEYJ510V | 51 1/16W                | [M]     |
| R8558    | ERJ3GEYJ473V | 47K 1/16W               | [M]     |
| R8559    | ERJ3GEYJ153V | 15K 1/16W               | [M]     |
| R8560    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R8561    | ERJ3GEY0R00V | 0 1/16W                 | [M]     |
| R8562    | ERJ3GEYJ331V | 330 1/16W               | [M]     |
| R8563    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R8564    | ERJ3GEYJ100V | 10 1/16W                | [M]     |
| R8565    | ERJ3GEYJ2R2V | 2.2 1/16W               | [M]     |
| R8566    | ERJ3GEYJ560V | 56 1/16W                | [M]     |
| R8567    | ERJ3GEYJ510V | 51 1/16W                | [M]     |
| R8568    | ERJ3GEYJ473V | 47K 1/16W               | [M]     |
| R8569    | ERJ3GEYJ123V | 12K 1/16W               | [M]     |

| Ref. No. | Part No.     | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| R8570    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R8601    | ERJ3GEYJ102V | 1K 1/16W                | [M]     |
| R8605    | ERJ3GEYJ104V | 100K 1/16W              | [M]     |
| R8606    | ERJ3GEYJ103V | 10K 1/16W               | [M]     |
| R8611    | ERJ2GEJ101X  | 100 2W                  | [M]     |
| R8621    | ERJ3GEYJ105V | 1M 1/16W                | [M]     |
| R8622    | ERJ3RBD471V  | 470 3W                  | [M]     |
|          |              |                         |         |
| K8002    | ERJ2GE0R00X  | CHIP JUMPER             | [M]     |
| K8003    | ERJ2GE0R00X  | CHIP JUMPER             | [M]     |
| K8005    | ERJ2GE0R00X  | CHIP JUMPER             | [M]     |
| K8007    | ERJ2GE0R00X  | CHIP JUMPER             | [M]     |
| K8008    | ERJ2GE0R00X  | CHIP JUMPER             | [M]     |
| K8010    | ERJ2GE0R00X  | CHIP JUMPER             | [M]     |
| K8321    | ERJ2GE0R00X  | CHIP JUMPER             | [M]     |
| K8325    | ERJ2GE0R00X  | CHIP JUMPER             | [M]     |
| K8331    | ERJ2GE0R00X  | CHIP JUMPER             | [M]     |
| K8335    | ERJ2GE0R00X  | CHIP JUMPER             | [M]     |
| K8341    | ERJ2GE0R00X  | CHIP JUMPER             | [M]     |
| K8421    | ERJ3GEY0R00V | CHIP JUMPER             | [M]     |
|          |              |                         |         |
| RA8011   | EXB28V820JX  | CHIP RESISTOR           | [M]     |
| RA8012   | EXB28V820JX  | CHIP RESISTOR           | [M]     |
| RA8013   | EXB28V820JX  | CHIP RESISTOR           | [M]     |
| RA8014   | EXB28V820JX  | CHIP RESISTOR           | [M]     |
| RA8015   | D1H422020001 | CHIP RESISTOR           | [M]     |
| RA8016   | EXB28V820JX  | CHIP RESISTOR           | [M]     |
| RA8017   | EXB28V820JX  | CHIP RESISTOR           | [M]     |
| RA8018   | EXB28V820JX  | CHIP RESISTOR           | [M]     |
| RA8021   | D1H410320002 | CHIP RESISTOR           | [M]     |
| RA8031   | D1H447220001 | CHIP RESISTOR           | [M]     |
| RA8032   | D1H447220001 | CHIP RESISTOR           | [M]     |
| RA8271   | D1H410320002 | CHIP RESISTOR           | [M]     |
| RA8401   | D1H410120001 | CHIP RESISTOR           | [M]     |
| RA8402   | D1H410120001 | CHIP RESISTOR           | [M]     |
| RA8501   | D1H456020001 | CHIP RESISTOR           | [M]     |
| RA8502   | EXB28V560JX  | CHIP RESISTOR           | [M]     |
| RA8503   | D1H456020001 | CHIP RESISTOR           | [M]     |
| RA8504   | D1H456020001 | CHIP RESISTOR           | [M]     |
| RA8611   | D1H447220001 | CHIP RESISTOR           | [M]     |
|          |              |                         |         |
|          |              | CAPACITORS              |         |
|          |              |                         |         |
| C11      | F1D1E103A001 | 0.01 25V                | [M]     |
| C12      | F2A1C101A235 | 100 16V                 | [M]     |
| C21      | F1D1E103A001 | 0.01 25V                | [M]     |
| C22      | F2A1C101A235 | 100 16V                 | [M]     |
| C1001    | ECKR2H103ZF5 | 0.01 500V               | [M]     |
| C1001    | F1H1H103A753 | 0.01 50V                | [M]     |
| C1002    | ECEA1HKN2R2B | 2.2 50V                 | [M]     |
| C1003    | ECJ1VB1H152K | 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]     |

| Ref. No. | Part No.     | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| 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]     |
| 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    | ECEA1CKA220B | 22 16V                  | [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]     |
| C2100    | ECJ1VB1A224K | 0.22 10V                | [M]     |
| C2101    | ECJ1VB1A224K | 0.22 10V                | [M]     |
| C2102    | ECJ1VC1H102J | 1000P 50V               | [M]     |
| C2103    | ECJ1VC1H102J | 1000P 50V               | [M]     |
| C2104    | ECEA1HKA470B | 47 50V                  | [M]     |
| C2105    | ECEA1HKA470B | 47 50V                  | [M]     |
| C2107    | ECEA1HKA010B | 1 50V                   | [M]     |
| C2112    | ECJ1VB1H221K | 220P 50V                | [M]     |
| C2113    | ECEA1HKA4R7B | 4.7 50V                 | [M]     |
| C2115    | ECJ1VC1H101K | 100P 50V                | [M]     |
| C2116    | ECJ1VC1H101J | 100P 50V                | [M]     |
| C2117    | ECEA1CKA470B | 47 16V                  | [M]     |
| C2118    | ECJ1VB1H102K | 1000P 50V               | [M]     |
| C2120    | ECEA1CKA100B | 10 16V                  | [M]     |
| C2121    | ECEA1HKA010B | 1 50V                   | [M]     |
| C2122    | ECJ1VB1A224K | 0.22 10V                | [M]     |
| C2123    | ECJ1VB1A224K | 0.22 10V                | [M]     |
| C2124    | ECJ1VC1H101K | 100P 50V                | [M]     |
| C2125    | ECJ1VC1H470J | 47P 50V                 | [M]     |
| C2126    | ECJ1VC1H470J | 47P 50V                 | [M]     |
| C2127    | ECJ1VB1C105K | 1 16V                   | [M]     |
| C2128    | ECJ1VB1H682K | 6800P 50V               | [M]     |
| C2129    | ECJ2VB1C154K | 0.15 16V                | [M]     |
| C2130    | ECEA1HKA100B | 10 50V                  | [M]     |
| C2134    | ECJ1VB1H471K | 470P 50V                | [M]     |
| C2139    | ECEA1HKA4R7B | 4.7 50V                 | [M]     |
| C2140    | ECEA1HKA4R7B | 4.7 50V                 | [M]     |
| C2141    | ECEA1HKA330B | 33 50V                  | [M]     |
| C2142    | ECJ1VC1H330J | 33P 50V                 | [M]     |
| C2143    | ECJ1VB1C103K | 0.01 16V                | [M]     |
| C2144    | ECEA1HKA470B | 47 50V                  | [M]     |
| C2145    | ECEA1HKA010B | 1 50V                   | [M]     |
| C2146    | ECJ1VB1H102K | 1000P 50V               | [M]     |
| C2147    | ECJ1VB1H104K | 0.1 50V                 | [M]     |
| C2148    | ECJ1VB1C105K | 1 16V                   | [M]     |
| C2149    | ECJ1VB1H223K | 0.022 50V               | [M]     |
| C2150    | ECJ1VC1H101K | 100P 50V                | [M]     |
| C2151    | ECEA1HKA4R7B | 4.7 50V                 | [M]     |
| C2171    | ECJ1VC1H102J | 1000P 50V               | [M]     |
| C2200    | ECJ1VC1H102J | 1000P 50V               | [M]     |
| C2201    | ECJ1VC1H102J | 1000P 50V               | [M]     |
| C2202    | ECEA1HKA470B | 47 50V                  | [M]     |
| C2203    | ECEA1HKA470B | 47 50V                  | [M]     |
| C2205    | ECEA1HKA010B | 1 50V                   | [M]     |
| C2210    | ECJ1VB1H221K | 220P 50V                | [M]     |

| Ref. No. | Part No.     | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| C2211    | ECEA1HKA4R7B | 4.7 50V                 | [M]     |
| C2213    | ECJ1VC1H101K | 100P 50V                | [M]     |
| C2214    | ECJ1VC1H101J | 100P 50V                | [M]     |
| C2215    | ECEA1CKA470B | 47 16V                  | [M]     |
| C2216    | ECJ1VB1H102K | 1000P 50V               | [M]     |
| C2218    | ECEA1CKA100B | 10 16V                  | [M]     |
| C2219    | ECEA1HKA010B | 1 50V                   | [M]     |
| C2220    | ECJ1VB1A224K | 0.22 10V                | [M]     |
| C2221    | ECJ1VB1A224K | 0.22 10V                | [M]     |
| C2222    | ECJ1VC1H101K | 100P 50V                | [M]     |
| C2223    | ECJ1VC1H470J | 47P 50V                 | [M]     |
| C2224    | ECJ1VC1H470J | 47P 50V                 | [M]     |
| C2225    | ECJ1VB1C105K | 1 16V                   | [M]     |
| C2226    | ECJ2VB1C154K | 0.15 16V                | [M]     |
| C2227    | ECEA1HKA100B | 10 50V                  | [M]     |
| C2231    | ECJ1VB1H471K | 470P 50V                | [M]     |
| C2236    | ECEA1HKA4R7B | 4.7 50V                 | [M]     |
| C2237    | ECEA1HKA4R7B | 4.7 50V                 | [M]     |
| C2238    | ECEA1HKA330B | 33 50V                  | [M]     |
| C2239    | ECJ1VC1H330J | 33P 50V                 | [M]     |
| C2240    | ECJ1VB1C103K | 0.01 16V                | [M]     |
| C2241    | ECEA1HKA470B | 47 50V                  | [M]     |
| C2242    | ECEA1HKA010B | 1 50V                   | [M]     |
| C2243    | ECJ1VB1H102K | 1000P 50V               | [M]     |
| C2244    | ECJ1VB1H104K | 0.1 50V                 | [M]     |
| C2245    | ECJ1VB1C105K | 1 16V                   | [M]     |
| C2246    | ECJ1VB1H223K | 0.022 50V               | [M]     |
| C2247    | ECEA1HKA100B | 10 50V                  | [M]     |
| C2248    | ECJ1VC1H101K | 100P 50V                | [M]     |
| C2249    | ECEA1HKA4R7B | 4.7 50V                 | [M]     |
| C2268    | ECJ1VC1H102J | 1000P 50V               | [M]     |
| C2301    | ECJ1VB1H682K | 6800P 50V               | [M]     |
| C2302    | ECEA1HKA010B | 1 50V                   | [M]     |
| C2303    | ECEA1CKA100B | 10 16V                  | [M]     |
| C2304    | ECJ1VB1H221K | 220P 50V                | [M]     |
| C2305    | ECEA1HKA010B | 1 50V                   | [M]     |
| C2310    | ECEA1HKA4R7B | 0.47 50V                | [M]     |
| C2311    | ECJ1VC1H180J | 18P 50V                 | [M]     |
| C2312    | ECJ1VB1C823K | 0.082 16V               | [M]     |
| C2313    | ECJ1VC1H220J | 22P 50V                 | [M]     |
| C2314    | ECJ1VB1C105K | 1 16V                   | [M]     |
| C2315    | ECJ1VB1H471K | 470P 50V                | [M]     |
| C2316    | ECJ1VB1H104K | 0.1 50V                 | [M]     |
| C2317    | ECEA1HKA3R3B | 3.3 50V                 | [M]     |
| C2318    | ECJ1VC1H330J | 33P 50V                 | [M]     |
| C2319    | ECEA1HKA4R7B | 0.47 50V                | [M]     |
| C2400    | ECEA1CKA100B | 10 16V                  | [M]     |
| C2401    | ECJ1VB1H221K | 220P 50V                | [M]     |
| C2402    | ECEA1HKA010B | 1 50V                   | [M]     |
| C2404    | ECEA1HKA4R7B | 0.47 50V                | [M]     |
| C2408    | ECJ1VB1H471K | 470P 50V                | [M]     |
| C2409    | ECJ1VC1H330J | 33P 50V                 | [M]     |
| C2410    | ECEA1HKA4R7B | 0.47 50V                | [M]     |
| C2500    | ECEA1CKA100B | 10 16V                  | [M]     |
| C2501    | ECJ1VC1H101K | 100P 50V                | [M]     |
| C2502    | ECEA1CKA100B | 10 16V                  | [M]     |
| C2509    | ECEA1HKA4R7B | 0.47 50V                | [M]     |
| C2510    | ECJ1VC1H220J | 22P 50V                 | [M]     |
| C2511    | F1H1H331A765 | 330P 50V                | [M]     |
| C2512    | ECJ1VB1C105K | 1 16V                   | [M]     |
| C2513    | ECJ1VC1H101K | 100P 50V                | [M]     |
| C2514    | ECJ1VB1H104K | 0.1 50V                 | [M]     |
| C2515    | ECJ1VF1C474Z | 0.47 16V                | [M]     |
| C2516    | ECJ1VC1H330J | 33P 50V                 | [M]     |
| C2517    | ECEA1HKA4R7B | 0.47 50V                | [M]     |
| C2600    | ECEA1HKA100B | 10 50V                  | [M]     |
| C2601    | ECJ1VB1H471K | 470P 50V                | [M]     |
| C2602    | ECEA1HKA010B | 1 50V                   | [M]     |
| C2603    | ECEA1HKA3R3B | 3.3 50V                 | [M]     |
| C2604    | ECJ1VB1H102K | 1000P 50V               | [M]     |
| C2605    | ECJ1VC1H101K | 100P 50V                | [M]     |
| C2606    | ECEA1HKA100B | 10 50V                  | [M]     |
| C2607    | ECJ1VB1C683K | 0.068 16V               | [M]     |
| C2608    | ECEA1HKA4R7B | 0.47 50V                | [M]     |

| Ref. No. | Part No.     | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| C2609    | ECEA1HKA100B | 10 50V                  | [M]     |
| C2610    | ECJ1VC1H102J | 1000P 50V               | [M]     |
| C2802    | EEUFC0J821B  | 820P 6.3V               | [M]     |
| C2803    | ECA1EM221B   | 220 25V                 | [M]     |
| C2804    | ECJ1VF1A105Z | 1 10V                   | [M]     |
| C2805    | ECJ1VF1A105Z | 1 10V                   | [M]     |
| C2806    | ECEA0JKA221B | 220 6.3V                | [M]     |
| C2807    | ECJ1VF1A105Z | 1 10V                   | [M]     |
| C2808    | ECJ1VF1A105Z | 1 10V                   | [M]     |
| C2809    | ECA1EM221B   | 220 25V                 | [M]     |
| C2810    | EEUFC0J821B  | 820P 6.3V               | [M]     |
| C2811    | ECEA1CKA100B | 10 16V                  | [M]     |
| C2812    | ECJ1VF1A105Z | 1 10V                   | [M]     |
| C2813    | ECJ1VF1A105Z | 1 10V                   | [M]     |
| C2814    | ECEA1AKA101B | 100 10V                 | [M]     |
| C2820    | ECEA0JKA221B | 220 6.3V                | [M]     |
| C2821    | ECJ1VF1A105Z | 1 10V                   | [M]     |
| C2822    | ECEA1AKA101B | 100 10V                 | [M]     |
| C2823    | ECEA1AKA221B | 220 10V                 | [M]     |
| C2824    | ECEA1CKA470B | 47 16V                  | [M]     |
| C2825    | ECEA1CKA470B | 47 16V                  | [M]     |
| C2826    | ECJ1VB1H103K | 0.01 50V                | [M]     |
| C2827    | ECJ1VC1H220J | 22P 50V                 | [M]     |
| C2828    | ECEA1CKA470B | 47 16V                  | [M]     |
| C2829    | ECJ1VB1H103K | 0.01 50V                | [M]     |
| C2830    | ECEA1CKA470B | 47 16V                  | [M]     |
| C2831    | ECJ1VB1H103K | 0.01 50V                | [M]     |
| C2832    | ECJ1VB1H103K | 0.01 50V                | [M]     |
| C2833    | F2A0J102A130 | 1000P 6.3V              | [M]     |
| C2834    | ECEA0JKA101B | 100 6.3V                | [M]     |
| C2835    | F2A0J102A130 | 1000P 6.3V              | [M]     |
| C2836    | ECEA0JKA101B | 100 6.3V                | [M]     |
| C2837    | F2A0J102A130 | 1000P 6.3V              | [M]     |
| C2838    | ECEA0JKA101B | 100 6.3V                | [M]     |
| C2839    | ECEA0JKA331B | 330 6.3V                | [M]     |
| C2840    | ECEA0JKA331B | 330 6.3V                | [M]     |
| C2842    | ECJ1VF1A105Z | 1 10V                   | [M]     |
| C2843    | ECJ1VF1A105Z | 1 10V                   | [M]     |
| C2846    | ECJ1VB1H102K | 1000P 50V               | [M]     |
| C2847    | ECJ1VB1H102K | 1000P 50V               | [M]     |
| C2848    | ECJ1VB1H471K | 470P 50V                | [M]     |
| C2849    | ECJ1VB1H102K | 1000P 50V               | [M]     |
| C2850    | ECJ1VB1H471K | 470P 50V                | [M]     |
| C2851    | ECJ1VB1H471K | 470P 50V                | [M]     |
| C2855    | ECEA1CKA100B | 10 16V                  | [M]     |
| C2860    | ECEA1HKA4R7B | 4.7 50V                 | [M]     |
| C2862    | ECEA1HKA4R7B | 4.7 50V                 | [M]     |
| C2864    | ECEA1CKA100B | 10 16V                  | [M]     |
| C2865    | ECEA1HKA4R7B | 4.7 50V                 | [M]     |
| C2867    | ECEA1HKA4R7B | 4.7 50V                 | [M]     |
| C2868    | ECJ1VB1E103K | 0.01 25V                | [M]     |
| C2869    | ECJ1VB1C103K | 0.01 16V                | [M]     |
| C2870    | ECJ1VB1E103K | 0.01 25V                | [M]     |
| C2871    | ECA1CM331B   | 330 16V                 | [M]     |
| C2872    | ECJ1VB1E103K | 0.01 25V                | [M]     |
| C2873    | ECJ1VB1E103K | 0.01 25V                | [M]     |
| C2874    | ECJ1VF1A105Z | 1 10V                   | [M]     |
| C2875    | ECJ1VF1A105Z | 1 10V                   | [M]     |
| C2877    | ECJ1VB1E103K | 0.01 25V                | [M]     |
| C2878    | ECJ1VB1E103K | 0.01 25V                | [M]     |
| C2879    | ECEA1CN100SB | 10 16V                  | [M]     |
| C2880    | ECA1CM331B   | 330 16V                 | [M]     |
| C2881    | ECJ1VB1E103K | 0.01 25V                | [M]     |
| C2883    | ECJ1VB1E103K | 0.01 25V                | [M]     |
| C2884    | ECJ1VB1E103K | 0.01 25V                | [M]     |
| C2885    | F2J1H100A048 | 10P 50V                 | [M]     |
| C2886    | ECA1CM221B   | 220 16V                 | [M]     |
| C2889    | ECA1CM221B   | 220 16V                 | [M]     |
| C2899    | ECEA1HKA2R2B | 2.2 50V                 | [M]     |
| C2900    | ECJ1VB1H472K | 4700P 50V               | [M]     |
| C2901    | ECJ1VB1H561K | 560P 50V                | [M]     |
| C2902    | ECJ1VB1H102K | 1000P 50V               | [M]     |
| C2903    | ECJ1VB1E103K | 0.01 25V                | [M]     |
| C2904    | ECJ1VB1H272K | 2700P 50V               | [M]     |

| Ref. No. | Part No.     | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| C2905    | ECJ1VB1H102K | 1000P 50V               | [M]     |
| C2906    | ECJ1VB1A224K | 0.22 10V                | [M]     |
| C2907    | ECJ1VB1H182K | 1800P 50V               | [M]     |
| C2908    | ECJ1VB1A224K | 0.22 10V                | [M]     |
| C2909    | ECJ1VB1A224K | 0.22 10V                | [M]     |
| C2910    | ECJ1VF1C474Z | 0.47 16V                | [M]     |
| C2911    | ECJ1VF1C474Z | 0.47 16V                | [M]     |
| C2912    | ECJ2VF1E473Z | 0.047 25V               | [M]     |
| C2913    | ECJ1VB1H104K | 0.1 50V                 | [M]     |
| C2914    | ECJ1VB1A224K | 0.22 10V                | [M]     |
| C2915    | ECJ1VB1A224K | 0.22 10V                | [M]     |
| C2916    | ECEA1CKA101B | 100 16V                 | [M]     |
| C2917    | ECJ1VB1C683K | 0.068 16V               | [M]     |
| C2918    | ECJ1VB1C683K | 0.068 16V               | [M]     |
| C2919    | ECJ1VB1C683K | 0.068 16V               | [M]     |
| C2920    | ECJ1VB1C683K | 0.068 16V               | [M]     |
| C2921    | ECEA1CKA470B | 47 16V                  | [M]     |
| C2922    | ECEA1CKA101B | 100 16V                 | [M]     |
| C2923    | ECJ1VB1H104K | 0.1 50V                 | [M]     |
| C2924    | ECJ1VB1H104K | 0.1 50V                 | [M]     |
| C2925    | ECJ1VB1H472K | 4700P 50V               | [M]     |
| C2926    | ECJ1VB1H472K | 4700P 50V               | [M]     |
| C2927    | ECJ1VB1C683K | 0.068 16V               | [M]     |
| C2928    | ECJ1VB1H104K | 0.1 50V                 | [M]     |
| C2929    | ECJ1VB1H104K | 0.1 50V                 | [M]     |
| C2930    | ECJ1VB1C683K | 0.068 16V               | [M]     |
| C2931    | ECJ1VB1H472K | 4700P 50V               | [M]     |
| C2932    | ECJ1VB1H472K | 4700P 50V               | [M]     |
| C2933    | ECEA1HKA010B | 1 50V                   | [M]     |
| C2934    | ECEA1CKA101B | 100 16V                 | [M]     |
| C2935    | ECJ1VB1H104K | 0.1 50V                 | [M]     |
| C2936    | ECEA1HKA2R2B | 2.2 50V                 | [M]     |
| C2937    | ECJ1VB1H332K | 3300P 50V               | [M]     |
| C2938    | ECJ2VB1C154K | 0.15 16V                | [M]     |
| C2939    | ECEA1HKA010B | 1 50V                   | [M]     |
| C2940    | ECEA1HKA010B | 1 50V                   | [M]     |
| C2941    | ECEA1HKA010B | 1 50V                   | [M]     |
| C2942    | ECJ1VB1H102K | 1000P 50V               | [M]     |
| C2943    | ECJ1VB1H102K | 1000P 50V               | [M]     |
| C2944    | ECJ1VB1H103K | 0.01 50V                | [M]     |
| C2945    | ECJ1VB1A224K | 0.22 10V                | [M]     |
| C2946    | ECJ1VB1H272K | 2700P 50V               | [M]     |
| C2947    | ECJ1VC1H102J | 1000P 50V               | [M]     |
| C2948    | ECJ1VC1H102J | 1000P 50V               | [M]     |
| C2949    | ECJ1VB1E103K | 0.01 25V                | [M]     |
| C2950    | ECJ1VB1E103K | 0.01 25V                | [M]     |
| C2951    | ECJ1VB1H272K | 2700P 50V               | [M]     |
| C2952    | ECEA1HKN4R7B | 4.7 50V                 | [M]     |
| C2953    | ECJ1VB1A224K | 0.22 10V                | [M]     |
| C2954    | ECEA1HKA100B | 10 50V                  | [M]     |
| C2955    | ECJ1VB1H104K | 0.1 50V                 | [M]     |
| C2956    | ECJ1VB1H104K | 0.1 50V                 | [M]     |
| C2959    | ECJ1VC1H101K | 100P 50V                | [M]     |
| C2961    | ECJ1VC1H102J | 1000P 50V               | [M]     |
| C2962    | ECEA1CKA470B | 47 16V                  | [M]     |
| C2963    | ECEA1CKA470B | 47 16V                  | [M]     |
| C5100    | ECBT1H821KB5 | 820P 50V                | [M]     |
| C5101    | ECBT1H150JC5 | 15P 50V                 | [M]     |
| C5104    | F1D1H1040002 | 0.1 50V                 | [M]     |
| C5105    | F1D1H1040002 | 0.1 50V                 | [M]     |
| C5106    | ECEA1HKA3R3B | 3.3 50V                 | [M]     |
| C5200    | ECBT1H821KB5 | 820P 50V                | [M]     |
| C5201    | ECBT1H150JC5 | 15P 50V                 | [M]     |
| C5204    | F1D1H1040002 | 0.1 50V                 | [M]     |
| C5205    | F1D1H1040002 | 0.1 50V                 | [M]     |
| C5206    | ECEA1HKA3R3B | 3.3 50V                 | [M]     |
| C5300    | ECBT1H821KB5 | 820P 50V                | [M]     |
| C5301    | ECBT1H150JC5 | 15P 50V                 | [M]     |
| C5302    | F1D1H473A012 | 0.047 50V               | [M]     |
| C5400    | ECBT1H821KB5 | 820P 50V                | [M]     |
| C5401    | ECBT1H150JC5 | 15P 50V                 | [M]     |
| C5402    | F1D1H473A012 | 0.047 50V               | [M]     |
| C5500    | ECBT1H821KB5 | 820P 50V                | [M]     |
| C5501    | ECBT1H150JC5 | 15P 50V                 | [M]     |

| Ref. No. | Part No.     | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| C5502    | F1D1H1040002 | 0.1 50V                 | [M]     |
| C5503    | F1D1H1040002 | 0.1 50V                 | [M]     |
| C5601    | ECBT1H150JC5 | 15P 50V                 | [M]     |
| C5606    | F1D1H1040002 | 0.1 50V                 | [M]     |
| C5607    | F1D1H1040002 | 0.1 50V                 | [M]     |
| C5801    | ECKR1H103ZF5 | 0.01 50V                | [M]     |
| C5802    | ECKR1H103ZF5 | 0.01 50V                | [M]     |
| C5803    | ECBT1E103ZF5 | 0.01 25V                | [M]     |
| C5804    | ECBT1H473ZF5 | 0.047 50V               | [M]     |
| C5805    | ECBT1H102KB5 | 1000P 50V               | [M]     |
| C5806    | ECA1CM221B   | 220 16V                 | [M]     |
| C5807    | ECEA1HKA2R2B | 2.2 50V                 | [M]     |
| C5808    | ECA1EM331B   | 330 25V                 | [M]     |
| C5809    | ECA1HM470B   | 47 50V                  | [M]     |
| C5810    | ECA1HM470B   | 47 50V                  | [M]     |
| C5811    | ECA1HM470B   | 47 50V                  | [M]     |
| C5812    | ECA1HM470B   | 47 50V                  | [M]     |
| C5813    | ECEA0JKA221B | 220 6.3V                | [M]     |
| C5814    | ECBT1H102KB5 | 1000P 50V               | [M]     |
| C5815    | F2A1V472A082 | 4700P 35V               | [M]     |
| C5816    | F2A1H332A236 | 3300P 50V               | [M]     |
| C5817    | F2A1H332A236 | 3300P 50V               | [M]     |
| C5818    | F2A1V472A082 | 4700P 35V               | [M]     |
| C5819    | ECQV1H184JL3 | 0.18 50V                | [M]     |
| C5820    | ECKR1H103ZF5 | 0.01 50V                | [M]     |
| C5821    | ECKR1H103ZF5 | 0.01 50V                | [M]     |
| C5822    | ECBT1H103KB5 | 0.01 50V                | [M]     |
| C5823    | ECEA1HKA2R2B | 2.2 50V                 | [M]     |
| C5824    | ECA0JM471B   | 470 6.3V                | [M]     |
| C5825    | ECKR1H103ZF5 | 0.01 50V                | [M]     |
| C5826    | ECKR1H103ZF5 | 0.01 50V                | [M]     |
| C5827    | ECBT1H473ZF5 | 0.047 50V               | [M]     |
| C5828    | ECBT1E103ZF5 | 0.01 25V                | [M]     |
| C5829    | F2A1V472A082 | 4700P 35V               | [M]     |
| C5830    | F2A1H332A236 | 3300P 50V               | [M]     |
| C5835    | F2A1H332A236 | 3300P 50V               | [M]     |
| C5836    | F2A1V472A082 | 4700P 35V               | [M]     |
| C5837    | ECA1HM470B   | 47 50V                  | [M]     |
| C5838    | ECQE1104KF3  | 0.1 100V                | [M]     |
| C5839    | ECQE1104KF3  | 0.1 100V                | [M]     |
| C5840    | ECKR2H103ZF5 | 0.01 500V               | [M]     |
| C5841    | F2A1V472A155 | 4700P 35V               | [M]     |
| C5842    | ECA1HM470B   | 47 50V                  | [M]     |
| C5843    | ECKR1H103MD5 | 0.01 50V                | [M]     |
| C5844    | ECA2AM100B   | 10 100V                 | [M]     |
| C5846    | ECKR1H103ZF5 | 0.01 50V                | [M]     |
| C5847    | F2A1E471A205 | 470P 25V                | [M]     |
| C5848    | F2A1E471A205 | 470P 25V                | [M]     |
| C5849    | ECKR1H102ZF5 | 1000P 50V               | [M]     |
| C5850    | ECKR1H103MD5 | 0.01 50V                | [M]     |
| C5851    | ECEA1AKA470B | 47 10V                  | [M]     |
| C5852    | ECA1HM470B   | 47 50V                  | [M]     |
| C5853    | ECBT1H103KB5 | 0.01 50V                | [M]     |
| C5854    | ECBT1H103KB5 | 0.01 50V                | [M]     |
| C5855    | F1D1H473A012 | 0.047 50V               | [M]     |
| C5856    | F1D1H473A012 | 0.047 50V               | [M]     |
| C5857    | F1D1H473A012 | 0.047 50V               | [M]     |
| C5858    | F1D1H473A012 | 0.047 50V               | [M]     |
| C5859    | F1D1H473A012 | 0.047 50V               | [M]     |
| C6013    | ECJ1VC1H560J | 56P 50V                 | [M]     |
| C6014    | ECJ1VB1H102K | 1000P 50V               | [M]     |
| C6015    | ECJ1VB1H102K | 1000P 50V               | [M]     |
| C6016    | ECJ1VC1H560J | 56P 50V                 | [M]     |
| C6800    | ECJ1VC1H101K | 100P 50V                | [M]     |
| C6801    | ECJ1VC1H101K | 100P 50V                | [M]     |
| C6802    | ECJ1VC1H101K | 100P 50V                | [M]     |
| C6803    | ECJ1VC1H101K | 100P 50V                | [M]     |
| C6804    | ECJ1VC1H101K | 100P 50V                | [M]     |
| C6805    | ECJ1VC1H101K | 100P 50V                | [M]     |
| C6806    | ECJ1VC1H101K | 100P 50V                | [M]     |
| C6807    | ECJ1VC1H101K | 100P 50V                | [M]     |
| C6808    | ECJ1VC1H101K | 100P 50V                | [M]     |
| C6809    | ECJ1VC1H101K | 100P 50V                | [M]     |
| C6811    | ECJ1VB1H102K | 1000P 50V               | [M]     |

| Ref. No. | Part No.     | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| C6812    | ECJ1VB1H102K | 1000P 50V               | [M]     |
| C6813    | ECJ1VC1H101K | 100P 50V                | [M]     |
| C6814    | ECJ1VC1H101K | 100P 50V                | [M]     |
| C6815    | ECJ1VC1H101K | 100P 50V                | [M]     |
| C6817    | ECJ1VB1H471K | 470P 50V                | [M]     |
| C6818    | ECJ1VB1H103K | 0.01 50V                | [M]     |
| C6819    | ECJ1VB1H471K | 470P 50V                | [M]     |
| C6820    | ECJ1VB1H103K | 0.01 50V                | [M]     |
| C6821    | ECEA1AKA220B | 22 10V                  | [M]     |
| C6822    | ECJ1VC1H101K | 100P 50V                | [M]     |
| C6823    | ECJ1VC1H101K | 100P 50V                | [M]     |
| C6824    | ECJ1VC1H101K | 100P 50V                | [M]     |
| C6825    | ECJ1VC1H101K | 100P 50V                | [M]     |
| C6826    | ECJ1VC1H101K | 100P 50V                | [M]     |
| C6827    | ECJ1VC1H101K | 100P 50V                | [M]     |
| C6828    | ECA1AM102B   | 1000 10V                | [M]     |
| C6829    | ECEA0JKA101B | 100 6.3V                | [M]     |
| C6830    | ECJ1VB1H104K | 0.1 50V                 | [M]     |
| C6831    | ECEA1HKA0R1B | 0.1 50V                 | [M]     |
| C6832    | ECJ1VB1H103K | 0.01 50V                | [M]     |
| C6833    | ECEA1HKA4R7B | 4.7 50V                 | [M]     |
| C6834    | ECJ1VC1H390J | 39P 50V                 | [M]     |
| C6835    | ECJ1VC1H390J | 39P 50V                 | [M]     |
| C6840    | ECJ1VC1H150J | 15P 50V                 | [M]     |
| C6841    | ECJ1VC1H150J | 15P 50V                 | [M]     |
| C6842    | ECJ2VF1E473Z | 0.047 25V               | [M]     |
| C6843    | ECJ1VB1C223K | 0.022 16V               | [M]     |
| C6844    | ECJ1VB1C223K | 0.022 16V               | [M]     |
| C6845    | ECJ1VB1C223K | 0.022 16V               | [M]     |
| C6846    | ECJ1VC1H331J | 330P 50V                | [M]     |
| C6847    | ECJ1VC1H331J | 330P 50V                | [M]     |
| C6848    | ECEA1VKA4R7B | 4.7 35V                 | [M]     |
| C6849    | ECJ1VB1H103K | 0.01 50V                | [M]     |
| C6851    | ECJ1VB1H103K | 0.01 50V                | [M]     |
| C6852    | ECJ1VB1H102K | 1000P 50V               | [M]     |
| C6853    | ECEA0JKA470B | 47 6.3V                 | [M]     |
| C6854    | ECEA1HKA3R3B | 3.3 50V                 | [M]     |
| C6855    | ECEA1HKA220B | 22 50V                  | [M]     |
| C6856    | ECEA1HKA220B | 22 50V                  | [M]     |
| C6857    | ECJ1VB1H102K | 1000P 50V               | [M]     |
| C6858    | ECJ1VB1H103K | 0.01 50V                | [M]     |
| C6859    | ECJ1VB1H103K | 0.01 50V                | [M]     |
| C6860    | ECKR1H103ZF5 | 0.01 50V                | [M]     |
| C6861    | ECEA1HKA0R1B | 0.1 50V                 | [M]     |
| C6862    | ECEA1HKA0R1B | 0.1 50V                 | [M]     |
| C6863    | ECEA1HKA0R1B | 0.1 50V                 | [M]     |
| C6865    | ECEA1HKA010B | 1 50V                   | [M]     |
| C6866    | ECJ1VB1H102K | 1000P 50V               | [M]     |
| C6867    | ECJ1VC1H101K | 100P 50V                | [M]     |
| C6868    | ECJ1VB1H102K | 1000P 50V               | [M]     |
| C6869    | ECA1CM471B   | 470 16V                 | [M]     |
| C6870    | ECEA1HKA010B | 1 50V                   | [M]     |
| C6871    | ECJ1VB1H103K | 0.01 50V                | [M]     |
| C6872    | ECEA1HKA33B  | 0.33 50V                | [M]     |
| C6873    | ECJ1VB1E223K | 0.022 25V               | [M]     |
| C6875    | ECJ1VB1C223K | 0.022 16V               | [M]     |
| C6876    | ECJ1VB1C223K | 0.022 16V               | [M]     |
| C6877    | ECJ1VC1H101K | 100P 50V                | [M]     |
| C6878    | ECJ1VC1H101K | 100P 50V                | [M]     |
| C6879    | ECEA1HKA4R7B | 4.7 50V                 | [M]     |
| C6881    | ECEA1HKA3R3B | 3.3 50V                 | [M]     |
| C6882    | ECJ1VB1H471K | 470P 50V                | [M]     |
| C6885    | ECJ1VB1H102K | 1000P 50V               | [M]     |
| C6886    | ECJ1VB1H331K | 330P 50V                | [M]     |
| C6887    | ECJ1VB1H331K | 330P 50V                | [M]     |
| C6888    | ECJ1VB1H331K | 330P 50V                | [M]     |
| C6889    | ECJ1VB1H104K | 0.1 50V                 | [M]     |
| C6890    | ECA0JAK101XB | 100 6.3V                | [M]     |
| C6891    | ECJ1VC1H101K | 100P 50V                | [M]     |
| C6892    | ECJ1VB1H102K | 1000P 50V               | [M]     |
| C6893    | ECA0JAK101XB | 100 6.3V                | [M]     |
| C6894    | ECJ1VB1H102K | 1000P 50V               | [M]     |
| C6895    | F2A1C100A234 | 10P 16V                 | [M]     |
| C6896    | ECJ1VB1H471K | 470P 50V                | [M]     |



| Ref. No. | Part No.     | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| C6898    | ECJ1VB1H102K | 1000P 50V               | [M]     |
| C6899    | ECJ1VB1H102K | 1000P 50V               | [M]     |
| C8001    | EEEF0C0J101P | 100P 6.3V               | [M]     |
| C8002    | EEE0GA331WP  | 330P 4V                 | [M]     |
| C8003    | ECJ1VB1H222K | 2200P 50V               | [M]     |
| C8004    | ECJ0EF1C104Z | 0.1 16V                 | [M]     |
| C8005    | ECJ1ZF1C104Z | 0.1 16V                 | [M]     |
| C8006    | ECJ1ZF1C104Z | 0.1 16V                 | [M]     |
| C8007    | ECJ0EF1C104Z | 0.1 16V                 | [M]     |
| C8008    | ECJ1ZF1C104Z | 0.1 16V                 | [M]     |
| C8009    | ECJ1ZF1C104Z | 0.1 16V                 | [M]     |
| C8010    | ECJ0EF1C104Z | 0.1 16V                 | [M]     |
| C8011    | ECJ1VB0J105K | 1 6.3V                  | [M]     |
| C8012    | ECJ1ZF1C104Z | 0.1 16V                 | [M]     |
| C8013    | ECJ1ZF1C104Z | 0.1 16V                 | [M]     |
| C8014    | ECJ1ZF1C104Z | 0.1 16V                 | [M]     |
| C8015    | ECJ1VB0J105K | 1 6.3V                  | [M]     |
| C8016    | ECJ1VB0J105K | 1 6.3V                  | [M]     |
| C8017    | ECJ0EF1C104Z | 0.1 16V                 | [M]     |
| C8018    | ECJ0EF1C104Z | 0.1 16V                 | [M]     |
| C8019    | ECJ1VB0J105K | 1 6.3V                  | [M]     |
| C8020    | ECJ0EF1C104Z | 0.1 16V                 | [M]     |
| C8021    | ECJ0EF1C104Z | 0.1 16V                 | [M]     |
| C8022    | ECJ1ZF1C104Z | 0.1 16V                 | [M]     |
| C8023    | ECJ1VB0J105K | 1 6.3V                  | [M]     |
| C8024    | ECJ1VB1H222K | 2200P 50V               | [M]     |
| C8025    | ECJ1ZF1C104Z | 0.1 16V                 | [M]     |
| C8026    | ECJ1VB0J105K | 1 6.3V                  | [M]     |
| C8027    | ECJ0EF1C104Z | 0.1 16V                 | [M]     |
| C8028    | ECJ1VB0J105K | 1 6.3V                  | [M]     |
| C8031    | ECJ1ZF1C104Z | 0.1 16V                 | [M]     |
| C8051    | ECJ1VB0J105K | 1 6.3V                  | [M]     |
| C8052    | ECJ0EF1C104Z | 0.1 16V                 | [M]     |
| C8053    | ECJ1VC1H221J | 220P 50V                | [M]     |
| C8054    | ECJ1VB0J105K | 1 6.3V                  | [M]     |
| C8055    | ECJ1VB0J105K | 1 6.3V                  | [M]     |
| C8056    | ECJ0EF1C104Z | 0.1 16V                 | [M]     |
| C8057    | ECJ1VB1H222K | 2200P 50V               | [M]     |
| C8111    | ECJ1VB1C104K | 0.1 16V                 | [M]     |
| C8112    | ECJ2FB1A105K | 1 10V                   | [M]     |
| C8113    | ECJ1VC1H471J | 470P 50V                | [M]     |
| C8201    | EEEF0JA101WR | 100P 6.3V               | [M]     |
| C8202    | EEEF0C0J101P | 100P 6.3V               | [M]     |
| C8203    | ECJ1ZF1C104Z | 0.1 16V                 | [M]     |
| C8204    | ECJ1ZF1C104Z | 0.1 16V                 | [M]     |
| C8205    | ECJ1ZF1C104Z | 0.1 16V                 | [M]     |
| C8206    | ECJ1VB0J105K | 1 6.3V                  | [M]     |
| C8207    | ECJ1ZF1C104Z | 0.1 16V                 | [M]     |
| C8208    | ECJ1ZF1C104Z | 0.1 16V                 | [M]     |
| C8211    | ECJ1VB1C333K | 0.033 16V               | [M]     |
| C8212    | ECJ1ZF1C104Z | 0.1 16V                 | [M]     |
| C8213    | ECJ1ZF1C104Z | 0.1 16V                 | [M]     |
| C8214    | ECJ1ZF1C104Z | 0.1 16V                 | [M]     |
| C8215    | ECJ1VB1H562K | 5600P 50V               | [M]     |
| C8216    | ECJ1VB1C183K | 0.018 16V               | [M]     |
| C8217    | ECJ1VB0J105K | 1 6.3V                  | [M]     |
| C8218    | ECJ1VB0J105K | 1 6.3V                  | [M]     |
| C8221    | ECJ1VB1C104K | 0.1 16V                 | [M]     |
| C8222    | ECJ1VB1C104K | 0.1 16V                 | [M]     |
| C8223    | ECJ1VB1C104K | 0.1 16V                 | [M]     |
| C8224    | ECJ1VB1C104K | 0.1 16V                 | [M]     |
| C8225    | ECJ1ZF1C104Z | 0.1 16V                 | [M]     |
| C8226    | ECJ1ZF1C104Z | 0.1 16V                 | [M]     |
| C8227    | ECJ1ZF1C104Z | 0.1 16V                 | [M]     |
| C8228    | ECJ2FB1A105K | 1 10V                   | [M]     |
| C8229    | ECJ2FB1A105K | 1 10V                   | [M]     |
| C8232    | ECJ1ZF1C104Z | 0.1 16V                 | [M]     |

| Ref. No. | Part No.     | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| C8233    | ECJ1VB1H472K | 4700P 50V               | [M]     |
| C8234    | ECJ1ZF1C104Z | 0.1 16V                 | [M]     |
| C8235    | ECJ1VC1H102J | 1000P 50V               | [M]     |
| C8236    | ECJ1VC1H102J | 1000P 50V               | [M]     |
| C8237    | ECJ1VC1H102J | 1000P 50V               | [M]     |
| C8238    | ECJ1VC1H821J | 820P 50V                | [M]     |
| C8241    | ECJ1VB1C104K | 0.1 16V                 | [M]     |
| C8242    | ECJ1VB1C104K | 0.1 16V                 | [M]     |
| C8251    | EEEF0C0J221P | 220P 6.3V               | [M]     |
| C8252    | EEE1CA220WR  | 22P 16V                 | [M]     |
| C8253    | ECJ1ZF1C104Z | 0.1 16V                 | [M]     |
| C8254    | ECJ1ZF1C104Z | 0.1 16V                 | [M]     |
| C8255    | ECJ1ZF1C104Z | 0.1 16V                 | [M]     |
| C8261    | ECJ1ZF1C104Z | 0.1 16V                 | [M]     |
| C8271    | EEEF0C1C470P | 47P 16V                 | [M]     |
| C8272    | EEE0JA330WR  | 33P 6.3V                | [M]     |
| C8273    | ECJ1ZF1C104Z | 0.1 16V                 | [M]     |
| C8274    | ECJ1ZF1C104Z | 0.1 16V                 | [M]     |
| C8275    | ECJ1ZF1C104Z | 0.1 16V                 | [M]     |
| C8284    | ECJ1VB1H103K | 0.01 50V                | [M]     |
| C8285    | ECJ1VB1H103K | 0.01 50V                | [M]     |
| C8286    | ECJ1VB1H103K | 0.01 50V                | [M]     |
| C8287    | ECJ1VB1C104K | 0.1 16V                 | [M]     |
| C8288    | ECJ1ZF1C104Z | 0.1 16V                 | [M]     |
| C8301    | EEE0JA221WP  | 220P 6.3V               | [M]     |
| C8302    | EEE0JA330WR  | 33P 6.3V                | [M]     |
| C8303    | ECJ1ZF1C104Z | 0.1 16V                 | [M]     |
| C8304    | ECJ1VB0J105K | 1 6.3V                  | [M]     |
| C8307    | ECJ1ZF1C104Z | 0.1 16V                 | [M]     |
| C8311    | ECJ1ZF1C104Z | 0.1 16V                 | [M]     |
| C8312    | ECJ1VB0J105K | 1 6.3V                  | [M]     |
| C8400    | ECJ1VC1H150J | 15P 50V                 | [M]     |
| C8420    | F2G0J331A015 | 330P 6.3V               | [M]     |
| C8423    | ECJ1ZF1C104Z | 0.1 16V                 | [M]     |
| C8424    | ECJ1ZF1C104Z | 0.1 16V                 | [M]     |
| C8451    | F3F1A106A001 | 10 10V                  | [M]     |
| C8452    | F3F1A106A001 | 10 10V                  | [M]     |
| C8453    | F3F1A106A001 | 10 10V                  | [M]     |
| C8455    | ECJ0EF1C104Z | 0.1 16V                 | [M]     |
| C8456    | ECJ1ZF1C104Z | 0.1 16V                 | [M]     |
| C8461    | F2G0J101A015 | 100P 6.3V               | [M]     |
| C8462    | ECJ1ZF1C104Z | 0.1 16V                 | [M]     |
| C8501    | ECJ3YB1A106M | 10 10V                  | [M]     |
| C8502    | ECJ1ZF1C104Z | 0.1 16V                 | [M]     |
| C8503    | ECJ1ZF1C104Z | 0.1 16V                 | [M]     |
| C8504    | ECJ1ZF1C104Z | 0.1 16V                 | [M]     |
| C8505    | ECJ1VC1H221J | 220P 50V                | [M]     |
| C8506    | ECJ1VC1H101J | 100P 50V                | [M]     |
| C8550    | EEE0JA330WR  | 33P 6.3V                | [M]     |
| C8551    | ECJ1ZF1C104Z | 0.1 16V                 | [M]     |
| C8552    | EEEF0C1C100R | 10P 16V                 | [M]     |
| C8553    | EEE0JA470WR  | 47P 6.3V                | [M]     |
| C8554    | ECJ1VB0J105K | 1 6.3V                  | [M]     |
| C8561    | ECJ1ZF1C104Z | 0.1 16V                 | [M]     |
| C8562    | EEEF0C1C100R | 10P 16V                 | [M]     |
| C8563    | EEE0JA470WR  | 47P 6.3V                | [M]     |
| C8564    | ECJ1VB0J105K | 1 6.3V                  | [M]     |
| C8601    | ECJ0EF1C104Z | 0.1 16V                 | [M]     |
| C8605    | ECJ0EF1C104Z | 0.1 16V                 | [M]     |
| C8606    | ECJ1VB1A224K | 0.22 10V                | [M]     |
| C8611    | ECJ1ZF1C104Z | 0.1 16V                 | [M]     |
| C8621    | ECJ1VC1H390J | 39P 50V                 | [M]     |
| C8622    | ECJ1VC1H050D | 5P 50V                  | [M]     |
| C8651    | ECJ1ZF1C104Z | 0.1 16V                 | [M]     |
| C8652    | ECJ1ZF1C104Z | 0.1 16V                 | [M]     |
| C8691    | ECJ0EF1C104Z | 0.1 16V                 | [M]     |
| C8695    | ECJ0EF1C104Z | 0.1 16V                 | [M]     |

## 25.5. Packing Materials & Accessories Parts List

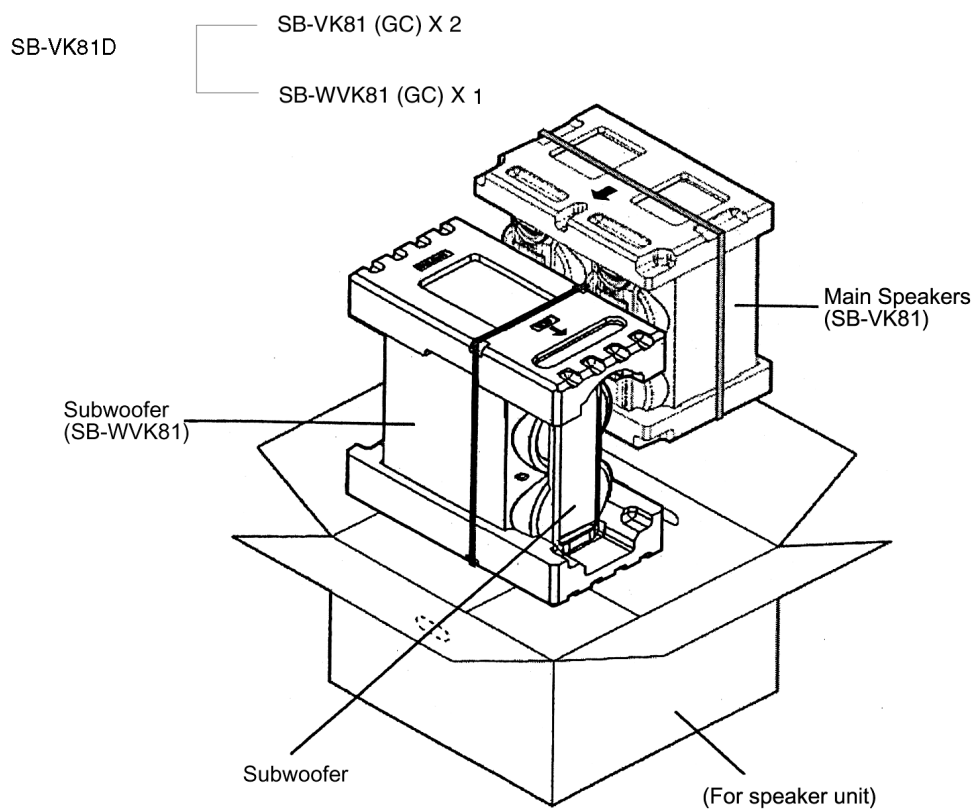
| Ref. No. | Part No. | Part Name & Description | Remarks |
|----------|----------|-------------------------|---------|
|          |          | PACKING MATERIALS       |         |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|----------|----------|-------------------------|---------|
| P1       | RPGX1377 | PACKING CASE            | [M]     |
| P2       | RPNX0252 | POLYFOAM                | [M]     |

| Ref. No. | Part No.     | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| P3       | RPFX0007     | MIRAMAT BAG             | [M]     |
|          |              | ACCESSORIES             |         |
| A1       | N2QAJB000110 | REMOTE CONTROL          | [M]     |
| A1-1     | RKK-HTR0283G | R/C BATTERY COVER       | [M]     |

| Ref. No. | Part No.     | Part Name & Description | Remarks                                                                                 |
|----------|--------------|-------------------------|-----------------------------------------------------------------------------------------|
| A2       | K2CQ2CA00002 | AC CORD                 | [M]  |
| A3       | RQT7700-L    | O/I BOOK (En)           | [M]                                                                                     |
| A3       | RQT7898-R    | O/I BOOK                | [M]                                                                                     |
| A4       | RSA0007-L    | FM ANTENNA              | [M]                                                                                     |
| A5       | N1DAAAA00001 | LINEAR ANTENNA          | [M]                                                                                     |
| A6       | K2KA2CA00011 | VIDEO CABLE             | [M]                                                                                     |

## 25.6. Packaging



- P2 (RPNX0252)      \*P2 (A)
- \* P2 (B)
- SF-VK81D            SA-VK81D (EE) X 1
- SB-PT81 (GC) X 1
- SB-PT81GC          SB-PS81 (GC) X 2
- SB-PC81 (GC) X 1

