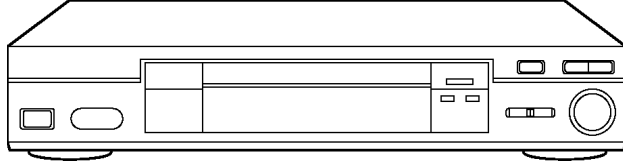


# Service Manual

## DVD Player



### DVD-RV60

Area

PM.....South America.

## Specifications

### ●General

<b>Power requirements:</b>	AC 110-240 V, 50/60 Hz
<b>Power consumption:</b>	18 W (approx. 4.0 W in STANDBY mode)
<b>Dimensions:</b>	430 (W)×271 (D)×82 (H) mm (excluding protrusions)
<b>Mass:</b>	2.9 kg
<b>Signal system:</b>	NTSC
<b>Operating temperature range:</b>	+5 to +35°C
<b>Operating humidity range:</b>	5-90 % RH (no condensation)
<b>Region number:</b>	Region NO.4

### ●Discs played

#### (1) DVD-Video disc:

- 12 cm single-sided, single-layer
- 12 cm single-sided, dual-layer
- 12 cm double-sided, single-layer
- 8 cm single-sided, single-layer
- 8 cm single-sided, dual-layer
- 8 cm double-sided, single-layer

#### (2) Compact disc (CD-DA, Video CD):

- 12 cm disc
- 8 cm disc

### ●Video output

<b>Output level:</b>	1 Vp-p (75 Ω)
<b>Output terminal:</b>	Pin jack (2 systems)

### ●S video output

<b>Y output level:</b>	1 Vp-p (75 Ω)
<b>C output level:</b>	0.286 Vp-p (75 Ω)
<b>Output terminal:</b>	S terminal (1 system)

### ●Component video output

<b>Y output level:</b>	1 Vp-p (75 Ω)
<b>P<sub>B</sub> output level:</b>	0.7 Vp-p (75 Ω)
<b>P<sub>R</sub> output level:</b>	0.7 Vp-p (75 Ω)

### Output terminal:

Pin jack  
(Y: green, P<sub>B</sub>: blue, P<sub>R</sub>: red)

### ●Audio output

**Output level:** 2 Vrms (1 kHz, 0 dB)

### Output terminal:

Mixed output (L/R): Pin jack (1 system)  
5.1ch discrete output: Pin jack (1 system)

### ●Audio signal output characteristics

#### (1) Frequency response:

- DVD (linear audio): 4 Hz-22 kHz (48 kHz sampling)  
4 Hz-44 kHz (96 kHz sampling)
- CD audio: 4 Hz-20 kHz (EIAJ)

#### (2) S/N ratio:

- CD audio: 115 dB (EIAJ)

#### (3) Dynamic range:

- DVD (linear audio): 102 dB
- CD audio: 98 dB (EIAJ)

#### (4) Total harmonic distortion:

- CD audio: 0.0025 % (EIAJ)

### ●Digital audio output

**Optical digital output:** Optical terminal  
**Coaxial audio output:** Pin jack

### ●Pickup

**Wave length:** 665 nm  
**Laser power:** CLASS 2

### Notes:

Specifications are subject to change without notice.  
Mass and dimensions are approximate.

## ⚠ WARNING

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

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# 1 SAFETY PRECAUTIONS

## 1.1. 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.

### 1.1.1. 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  $\infty$ .

### 1.1.2. 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  $0.15\mu F$  capacitors, 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 outside 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.

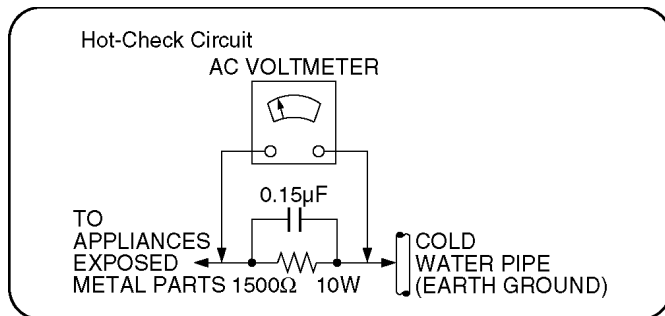


Figure 1

## 2 PREVENTION OF ELECTRO STATIC DISCHARGE (ESD) TO ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static 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 aluminum foil, to prevent electrostatic charge buildup 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 removal device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient 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, aluminum 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.

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

**IMPORTANT SAFETY NOTICE**

There are special components used in this equipment which are important for safety. These parts are marked by  $\triangle$  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.

### 3 PRECAUTION OF LASER DIODE

**Caution**

This unit utilizes a class I laser. Invisible laser radiation is emitted from the optical pickup lens when the unit is turned on:

- Do not look directly into the pickup lens.
- Do not use optical instruments to look at the pickup lens.
- Do not adjust the preset variable resistor on the optical pickup.
- Do not disassemble the optical pickup unit.
- If the optical pickup is replaced, use the manufacturer's specified replacement pickup only.
- Use of control or adjustment or performance of procedures other than those specified herein may result in hazardous radiation exposure.

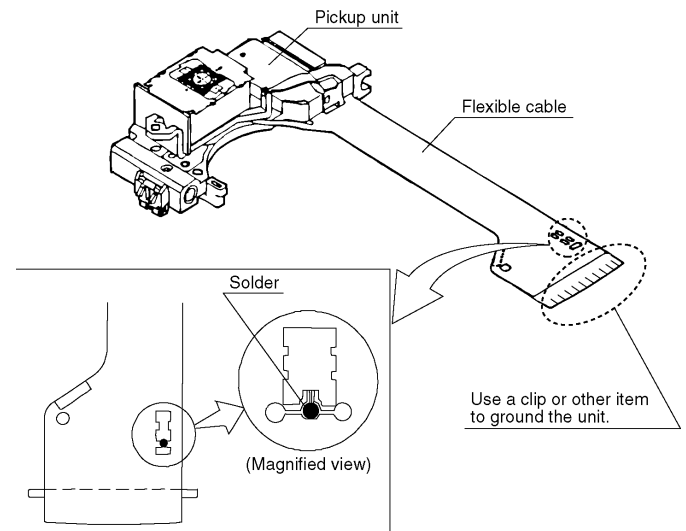
### 4 HANDLING PRECAUTIONS FOR TRAVERSE DECK

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

So be careful of electrostatic break down during repair of the optical pickup.

#### 4.1. Handling of optical pickup

- Do not subject the optical pickup to static electricity as it is extremely sensitive to electrical shock.
- To prevent the breakdown of the laser diode, an antistatic shorting pin is inserted into the flexible board (FPC Board). When removing or connecting the short pin, finish the job in as short times as possible.
- Be careful not to apply excessive stress to the flexible board (FPC Board).
- Do not turn the variable resistor (Laser power adjustment).

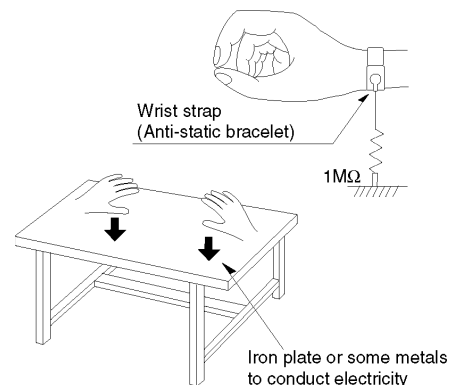


#### 4.2. Grounding for electrostatic breakdown prevention

- Human body grounding**  
Use the antistatic wrist strap to discharge the static electricity from your body.
- Work table grounding**  
Put a conductive material (sheet) or steel sheet on the area where the optical pickup is placed and ground the sheet.

**Caution**

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



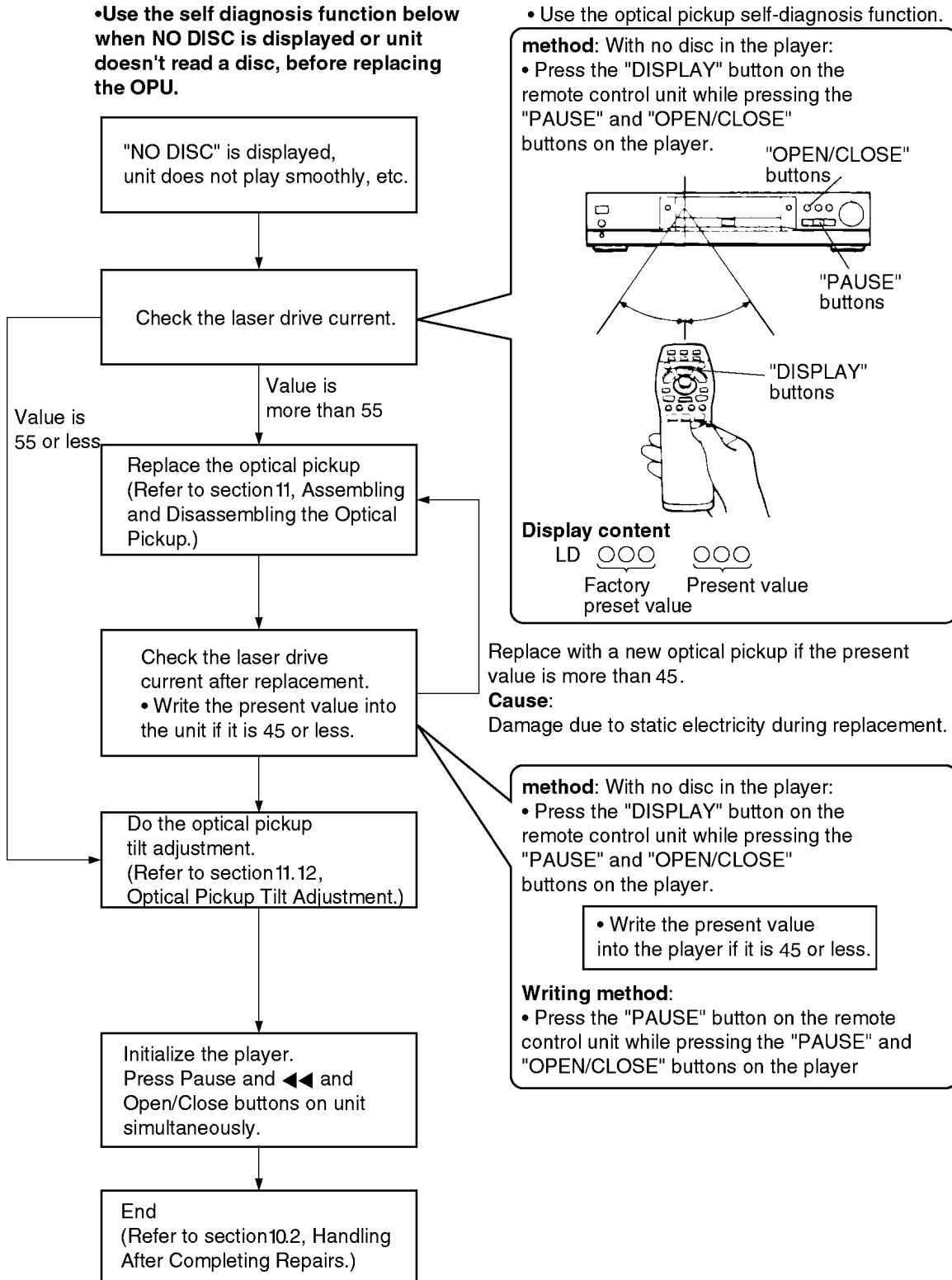
## 5 Optical Pickup Self-Diagnosis and Replacement Procedure

The optical pickup self-diagnosis function and tilt adjustment check function have been newly added to this player. When repairing, use the following procedure for effective Self-diagnosis and tilt adjustment.

Be sure to use the self-diagnosis function before replacing the optical pickup when "NO DISC" is displayed. As a guideline, you should replace the optical pickup when the value of the laser drive current is more than 55.

### Note

Press the power button to turn on the power, and check the value before the unit warms up (within three minutes).



## 6 Self-Diagnosis Function and Service Modes

### 6.1. Service Mode Table

The service modes can be activated by pressing various button combinations on the player and remote control unit.

Player buttons	Remote control unit buttons	Application	Note
PAUSE + OPEN/CLOSE	0	Displaying the UHF display F _ _ _	Refer to section 6.2, Self-Diagnosis Function (UHF Display).
	5	Jitter check, Tilt adjustment *Display shows JITXXX * * * The 3 digit number (JITXXX) indicates the Jitter rate (JIT088=8.8%) The 3 digit number * * * the right of JITXXX displays an error counter (increases as errors occur) but does not necessarily mean picture/ playback problems will occur. (This number is not as important as the JITXXX) Refer to section 11.12 for Optical Pickup Tilt Adjustment Procedure	Refer to section 11.12, Optical Pickup Tilt Adjustment.
	6	Checking the region numbers and broadcast system	
	7	Checking the program version	Check the IC6302 FLASH ROM program.
	9	Lighting Confirmation Function of Display Tube	
	DISPLAY	Checking the laser drive current	Refer to section 5, Optical Pickup Self-Diagnosis and Replacement
	PAUSE	Writing the laser drive current value after replacing the optical pickup (do not use for anything other than optical pickup replacement)	Procedure.
PAUSE SKIP/SEARCH<< OPEN/CLOSE		Initializing the DVD player (restoring factory preset settings) *Use when replacing a microprocessor, microprocessor peripheral parts, or P.C.B.	Refer to section 10.1, Initializing the DVD Player

### 6.2. Self-Diagnosis Function (UHF Display)

This unit incorporates a convenient self-diagnosis function for use in troubleshooting.

Display method	Display	Diagnosis	Checkpoints
Service numbers displayed during use	CHECK THE DISC	Focus error	IC2001, IC2511, IC5201, pickup
	H01	Tray loading error	IC2001, IC2511, loading motor
	H02	Spindle servo error	Spindle motor, IC2501, IC2001
	H03	Traverse error	Stepping motor, IC2511, IC2001
	H04	Tracking servo error	IC2001, IC2501, IC5201, pickup, disc
	H05	Seek error	Stepping motor, IC2511, IC2001
	H06	Power supply error	IC1125, IC1151, IC6001
Press the "0" button on the remote control unit while pressing the "PAUSE" and "OPEN/CLOSE" button on the player.	F0**	Disc format error	If this type of error occurs, refer to section 6.3, Examples of Repairs Using Error Codes.
	F1**	Disc code error	
	F2**	Decoder LSI error	
	F3**	SDRAM error	
	F4**	IIC BUS error	
	F5**	DSC	
	F6**	ECC error	
	F7**	Microprocessor error	
F8**	Microprocessor error		

## 6.3. Examples of Repairs Using Error Codes

Refer to this section when carrying out repairs.

Error display	Malfunction example
F0**	Disc, IC7001
F103	Disc, IC7001
F4FF	IC6001
F500	Optical pickup, IC2001, IC5201, IC2511, IC2501
F501	IC2001, IC6201
F502	IC2501, IC2511, IC2001, IC5201
F504	IC5201, IC2001
F505	Disc, IC2501, IC2511, IC5201, IC2001
F506	Disc, Optical pickup, IC2001
F600	Disc, IC7001, IC5201, IC2001
F601	Disc, IC7001
F602	Disc, IC5201, IC2001
F603	Disc, IC5201, IC2001
F610	IC7001
F611	IC7001, IC5201, IC2001
F612	IC7001, IC5201, IC2001
F620	Laser drive circuit
F621	Laser drive circuit
F700	IC6201
F701	IC6201
F702	IC6201
F880	IC6201
F890	IC6201
F891	IC6201
F8A0	IC6201
F893	IC6302
F894	IC6303

## 6.4. Sales Demonstration Lock Function

This function prevents discs from being lost when the unit is used for sales demonstrations, by disabling the disc eject function. "LOCKED" is displayed on the unit, and ordinary operation is disabled.

### 6.4.1. Setting Method

The sales demonstration lock function is set by simultaneously pressing the "POWER" button of DVD Player on the remote control unit and the "STOP" button on the main unit. ("LOCKED" is displayed when the lock function is engaged.)

### 6.4.2. Release Method

The function can be released using the same procedure as for setting. If the remote control unit is not at hand, the function can be released by using the same method as for player initialization (pressing the "PAUSE," "SKIP/SEARCH<<" and "OPEN/CLOSE" buttons simultaneously).



## 7 Service Tools and Equipment

### 7.1. Service Tools and Equipment Table

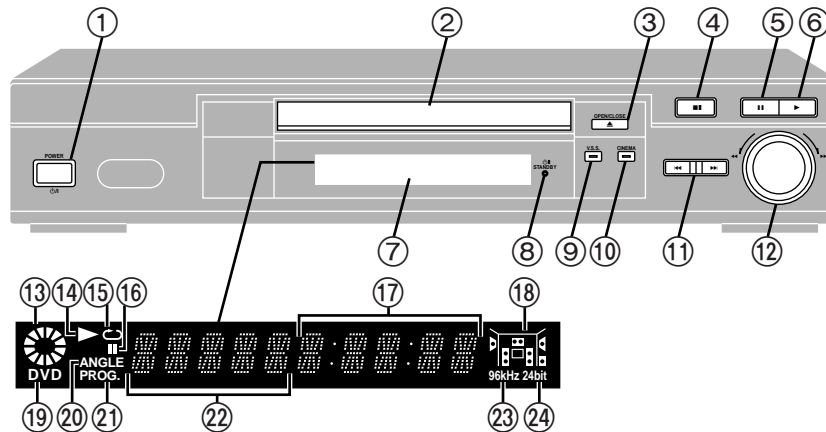
Application	Name	Number
General	DVD test disc	DVDT-S15 or DVDT-S01
Tilt adjustment	Hex wrench	JGS0100
	Adjustment table	VFK0539
Inspection	Extension cable (power supply P.C.B. to mother P.C.B.)	JGS0099
	Extension cable (mechanism loading P.C.B. to mother P.C.B.)	VUC8027
	Extension cables (module P.C.B. to mother P.C.B.)	JGS0116, JGS0098
Others	Screw lock	RZZ0L01
	Grease	JGS0091
		JGS0092
	Lubricant	JZS0648
Confirmation	CD test disc	SZZP1054C
	VCD test disc	PVCD_K06
Electrical adjustment	Oscilloscope	
	Probe	
	AV cable	VJA0658
	TV monitor	
General	General tools (Screw driver. etc)	
Static electricity countermeasures	Soldering iron (with ESD countermeasure)	
	Anti-static wrist strap	
	Conductive material (conductive sheet)	

### 7.2. Storing and Handling Test Discs





- Surface precision is vital for DVD test discs. Be sure to store and handle them carefully.
  1. Do not place discs directly onto the workbench, etc., after use.
  2. Handle discs carefully in order to maintain their flatness.  
Place them into their case after use and store them vertically. Store discs in a cool place where they are not exposed to direct sunlight or air from air conditioners.
  3. Accurate adjustment will not be possible if the disc is warped from being placed on a surface made of glass, etc. If this happens, use a new test disc to make optical adjustments.
  4. If adjustment is done using a warped disc, the adjustment will be incorrect and some discs will not be playable.

# 8 General Description

## 8.1. Operating Instructions

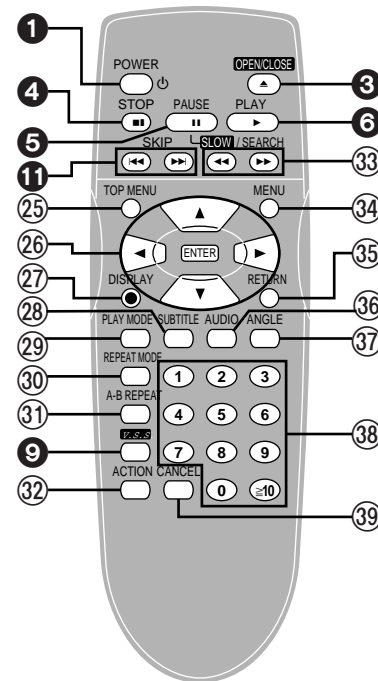


### Main unit

- ① **Standby/on switch (POWER,  $\updownarrow$ /I)**  
Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.
- ② **Disc tray**
- ③ **Disc tray open/close button ( $\blacktriangle$  OPEN/CLOSE)**
- ④ **Stop button ( $\blacksquare$ )**
- ⑤ **Pause button ( $\parallel$ )**
- ⑥ **Play button ( $\blacktriangleright$ )**
- ⑦ **FL display**
- ⑧ **Standby indicator ( $\updownarrow$  STANDBY)**  
When the unit is connected to the AC mains supply, this indicator lights up in standby mode and goes out when the unit is turned on.
- ⑨ **Virtual Surround Sound button/indicator (V.S.S.)**
- ⑩ **Cinema button/indicator (CINEMA)**
- ⑪ **Skip buttons ( $\lll$ ,  $\ggg$ )**
- ⑫ **Shuttle dial ( $\lll$ ,  $\ggg$ )**
- ⑬  **Rotates during play.**  
 **Rotates fast clockwise or counterclockwise during rapid advance (rapid reverse).**  
 **Rotates slowly clockwise or counterclockwise during slow-motion play. DVD V-CD**
-  **Illuminates in the stop mode.**
- ⑭ **Illuminates during play.**  
**Flashes when the RESUME function is ON.**
- ⑮ **Illuminates during repeat play.**
- ⑯ **Illuminates in the still picture (pause) mode.**
- ⑰ **Elapsed playing time from the start of the title/track during play**
- ⑱ **Audio channel information recorded in the disc being played (e.g. 2ch or 5.1ch)**  

a	Surround (left)	b	Center
c	Surround (right)	d	Subwoofer
e	Front (left)	f	Front (right)
- ⑲ **A DVD is loaded.**
- ⑳ **Illuminates when you can change the angle. DVD**
- ㉑ **Illuminates during program play. V-CD CD**
- ㉒ **Title/chapter number DVD**  
Track number V-CD CD
- ㉓ **Linear PCM of 96 kHz sampling is being played.**
- ㉔ **Linear PCM of 24 bit is being played.**

Buttons such as ① function in exactly the same way as the buttons on the main unit.



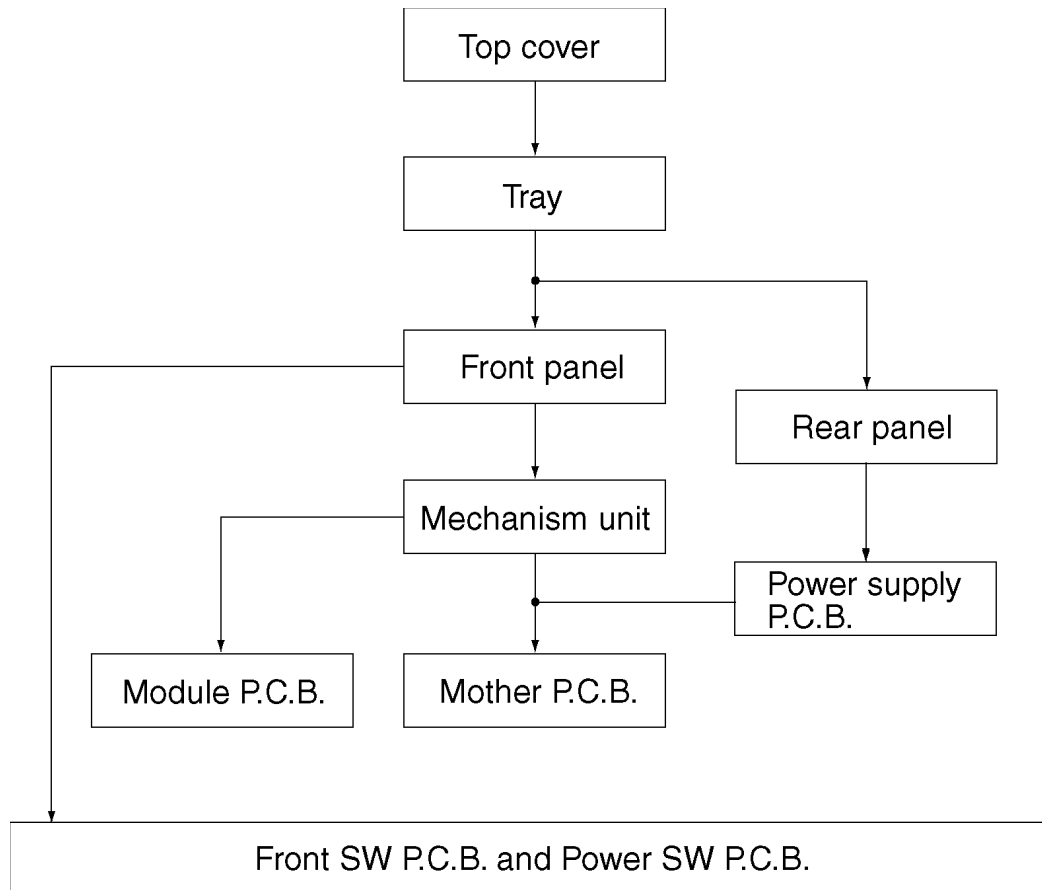
### Remote control

- ㉕ **Top menu button (TOP MENU)**
- ㉖ **Cursor buttons ( $\blacktriangle$ ,  $\blacktriangledown$ ,  $\blacktriangleleft$ ,  $\blacktriangleright$ )/Enter button (ENTER)**
- ㉗ **Display button (DISPLAY)**
- ㉘ **Subtitle button (SUBTITLE)**
- ㉙ **Play mode button (PLAY MODE)**
- ㉚ **Repeat mode button (REPEAT MODE)**
- ㉛ **A-B repeat button (A-B REPEAT)**
- ㉜ **Action button (ACTION)**
- ㉝ **Slow/Search buttons ( $\lll$ ,  $\ggg$  SLOW/SEARCH)**
- ㉞ **Menu button (MENU)**
- ㉟ **Return button (RETURN)**
- ㊱ **Audio button (AUDIO)**
- ㊲ **Angle button (ANGLE)**
- ㊳ **Numeric buttons (1–9, 0,  $\geq 10$ )**  
  - To select a 2-digit number
  - Example: To select track 23
  - Press [ $\geq 10$ ], then [2] and [3].
- ㊴ **Cancel button (CANCEL)**

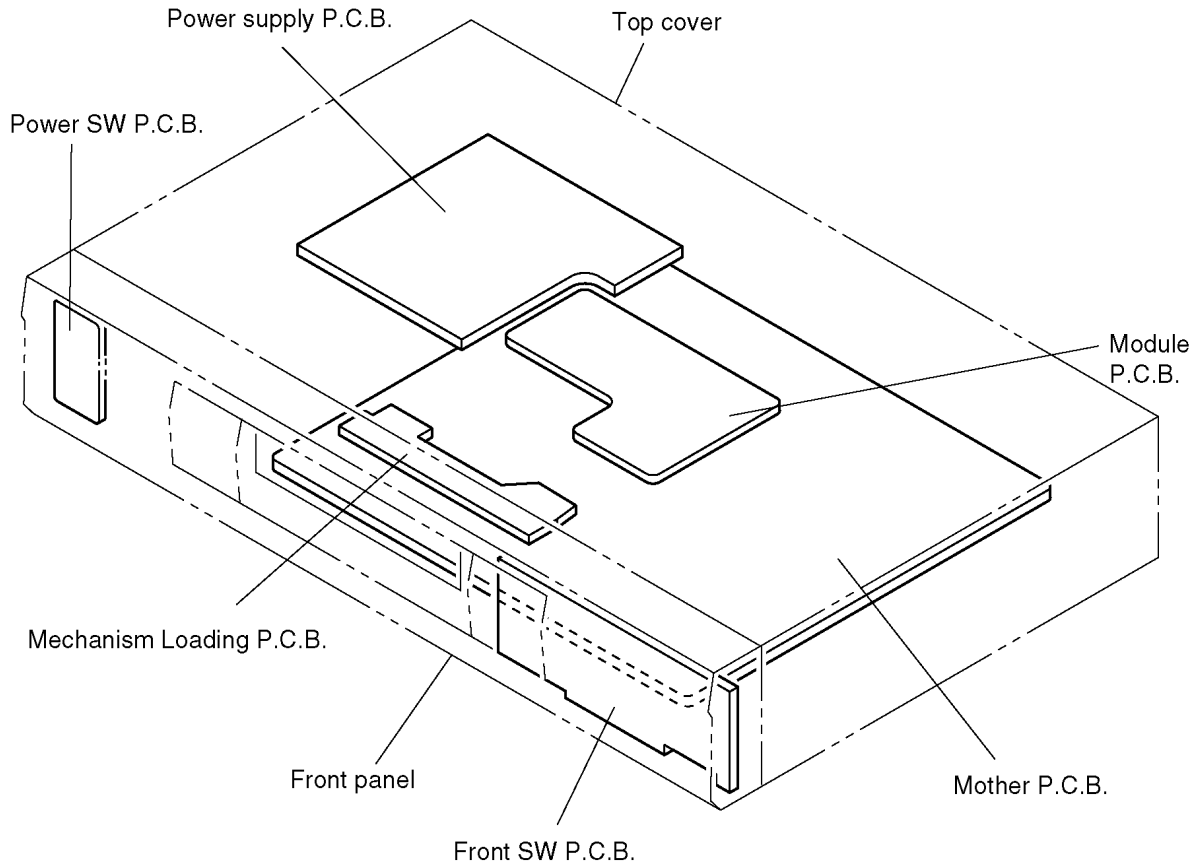
## 9 Assembling and Disassembling the Casing and Checking P.C.B.s

### 9.1. Disassembly Procedure

When servicing the unit, use the following procedure to disassemble the casing and inside parts for internal inspection.



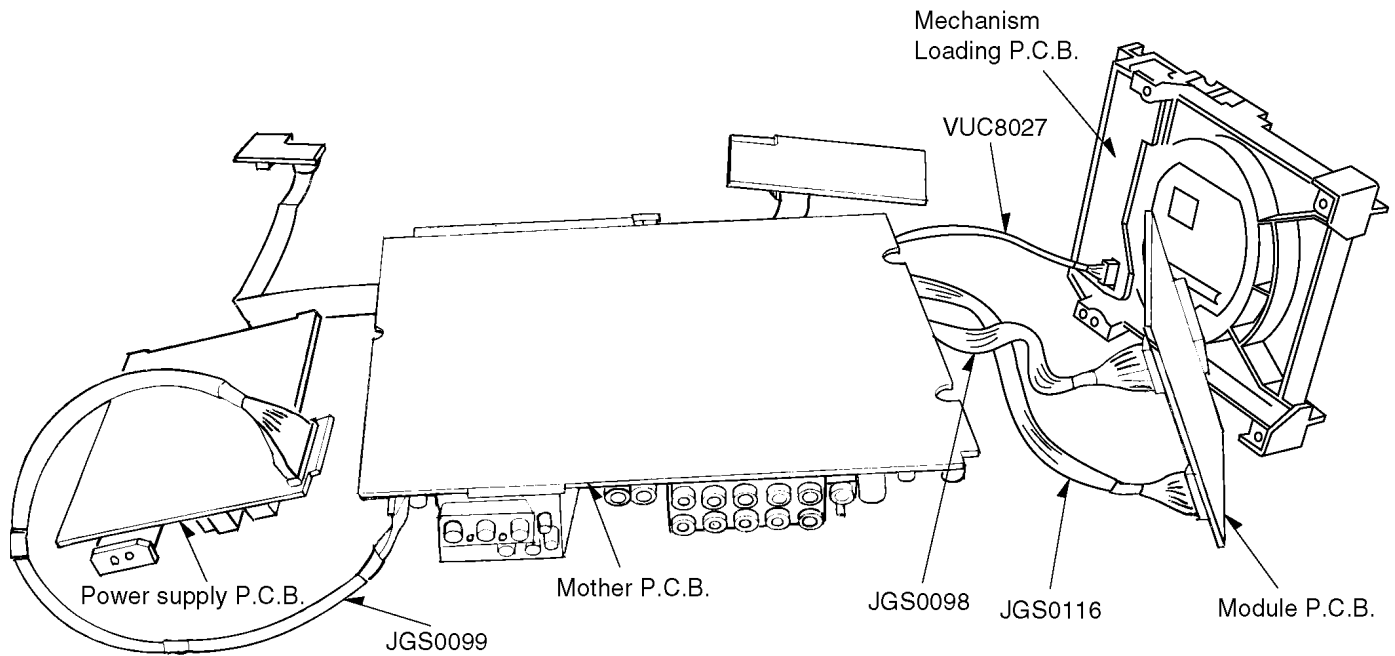
## 9.2. Casing Parts and P.C.B. Positions



## 9.3. Service Positions

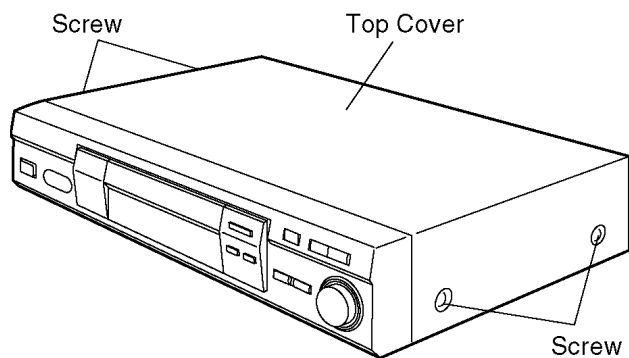
### Note

To inspect the loading base unit, position the left side upward (as viewed from the front).

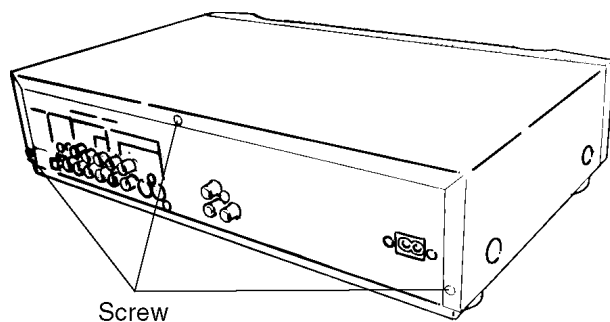


## 9.4. Disassembling the Top Cover

1. Remove the 4 screws.

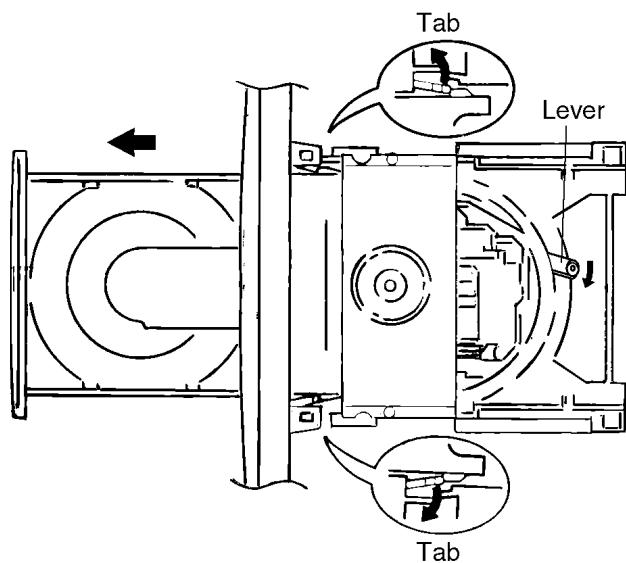


2. Remove the 3 screws.



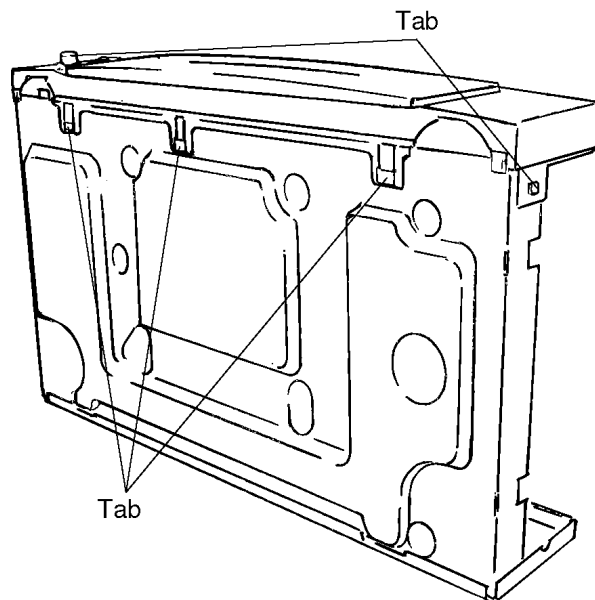
## 9.5. Disassembling the Tray

1. Turn the lever clockwise.
2. Move the tray in the direction of the arrow until it locks.
3. Release the tab locks on the left and right, then pull out the tray.

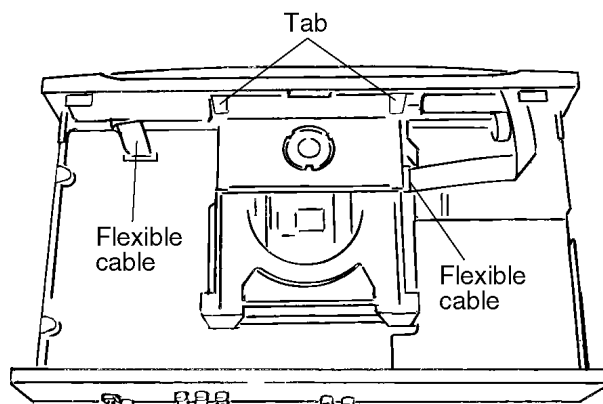


## 9.6. Disassembling the Front Panel

1. Release the 3 tabs on the bottom.
2. Release the 2 tabs on the left and right.



3. Release the 2 tabs.
4. Disconnect the 2 flexible cables.

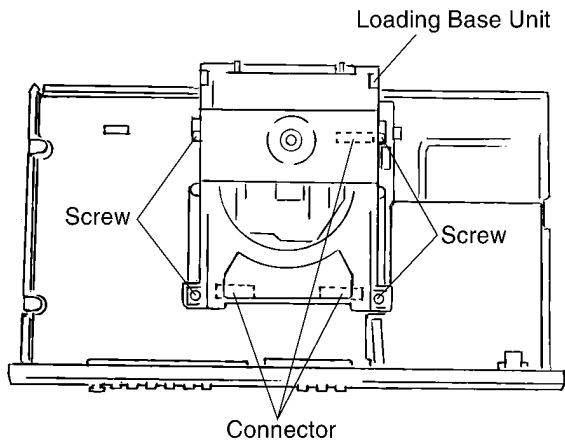


## 9.7. Disassembling the Loading Base Unit

1. Remove the 4 screws.
2. Pull out the loading base unit vertically.

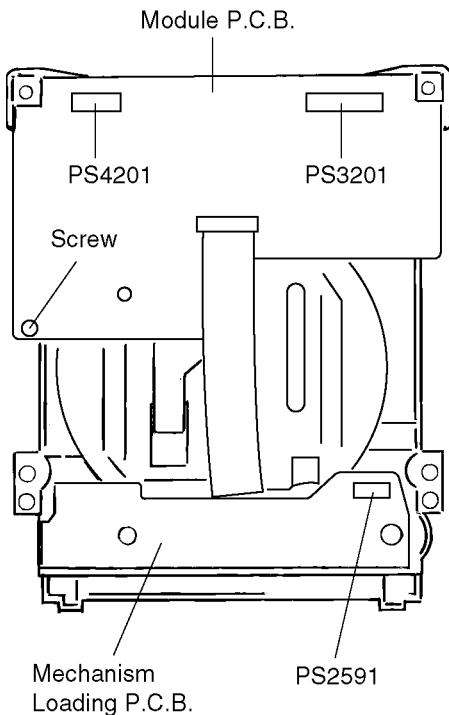
### Note

There is a danger of damaging the connectors.



## 9.8. Checking the Module P.C.B.

1. Remove the screw.

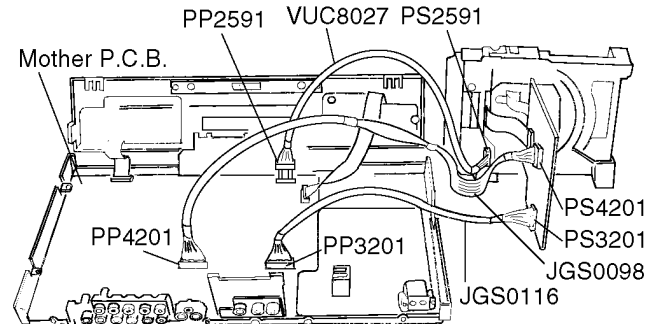


2. Connect the module P.C.B. to the mother P.C.B. with the extension cables for inspection.

- Extension cable: JGS0098
- Extension cable: JGS0116
- Mother P.C.B. Module P.C.B.
- PP4201-PS4201
- PP3201-PS3201

3. Connect the mechanism loading P.C.B. to the mother P.C.B. with the extension cable: for inspection.

- Extension cable: VUC8027
- Mother P.C.B. Mechanism Loading P.C.B.
- PP2591-PS2591

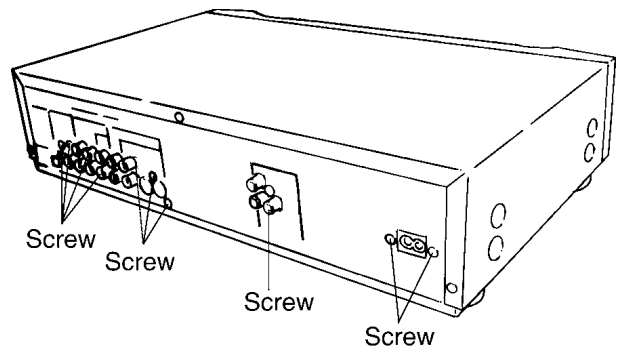


### Note

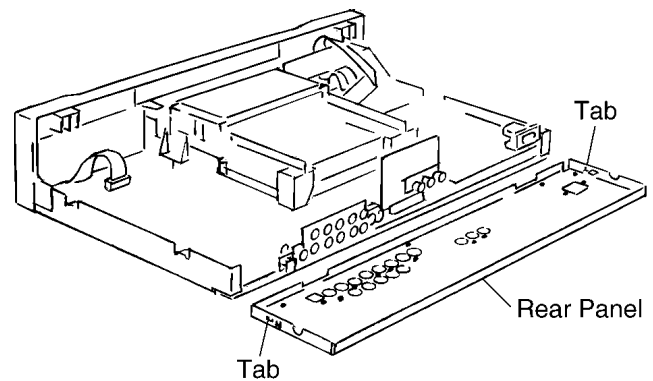
Be sure to initialize the player whenever you replace a P.C.B. (Refer to section 10.1, Initializing the DVD Player.)

## 9.9. Disassembling the Rear Panel

1. Remove all of the screws connected to the rear panel. (The number of screws varies according to the model).

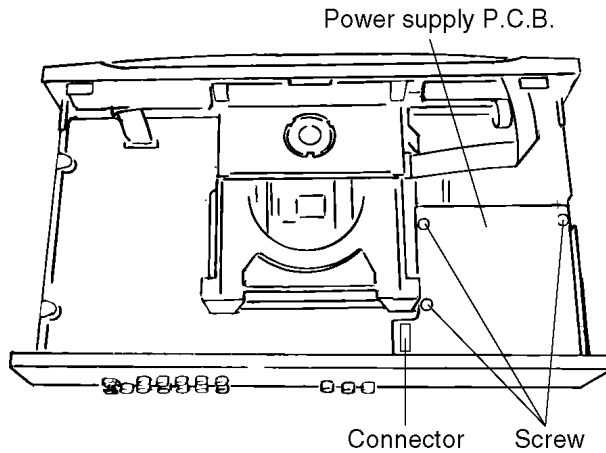


2. Release the two tabs on the left and right.



## 9.10. Checking the Power Supply P.C.B.

1. Remove the 3 screws.



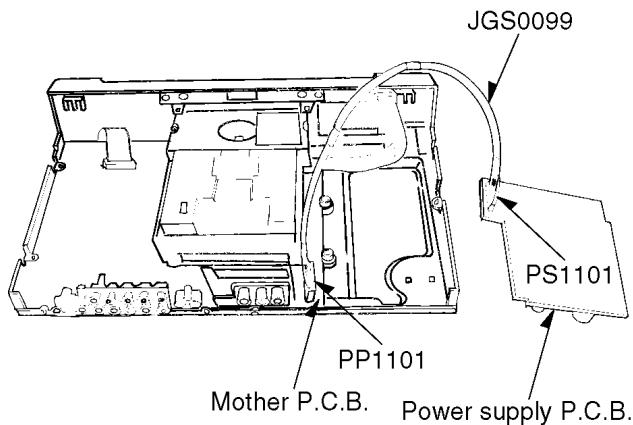
2. Carefully pull out the power supply P.C.B.

### Note

There is a danger of damaging the connectors.

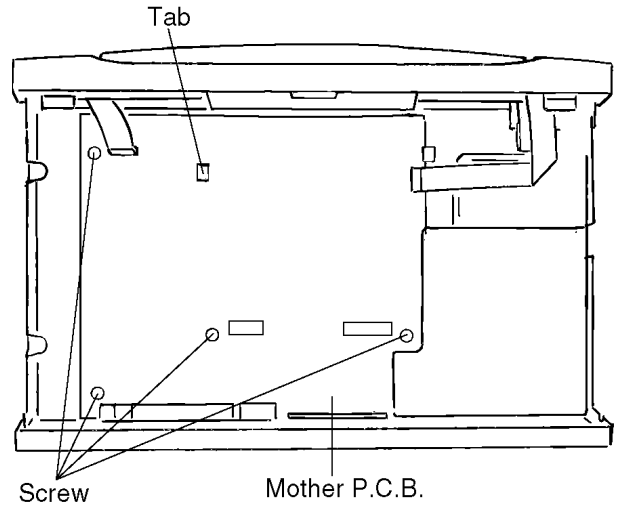
3. Connect the power supply P.C.B. and the mother P.C.B. with the extension cable for inspection.

- Extension cable: JGS0099 (connects the power supply P.C.B. PS1101 and the mother P.C.B. PP1101)



## 9.11. Checking the Mother P.C.B.

1. Remove the 4 screws.
2. Release the tab.

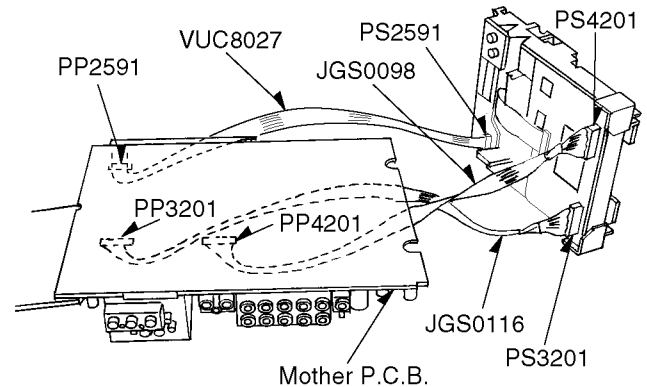


3. Check by connecting the module P.C.B. and the mother P.C.B. with the extension cables.

- Extension cable: JGS0116
  - Extension cable: JGS0098
- Module P.C.B. Mother P.C.B.  
PS3201-PP3201  
PS4201-PP4201

4. Check by connecting the mechanism loading P.C.B. and the mother P.C.B. with the extension cable.

- Extension cable: VUC8027
- Mechanism Loading P.C.B. Mother P.C.B.  
PS2591-PP2591



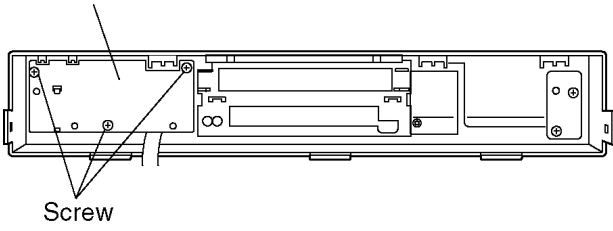
### Note

Be sure to initialize the player whenever you replace a P.C.B. (Refer to section 10.1, Initializing the DVD player.)

## 9.12. Checking the Front Switch P.C.B.

1. Remove the 3 screws.

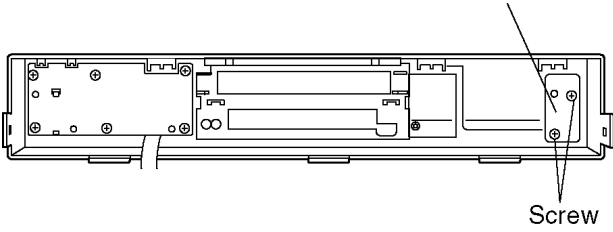
Front SW P.C.B.



## 9.13. Checking the Power Switch P.C.B.

1. Remove the 2 screws.

Power SW P.C.B.





## 10 Service Precautions

### 10.1. Initializing the DVD Player

Initialize the DVD player whenever you replace a microprocessor, microprocessor peripheral parts, module P.C.B. or mother P.C.B.

#### 10.1.1. Precautions

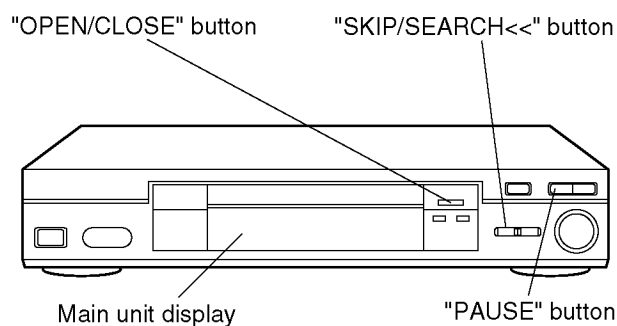
The customer settings will return to factory preset settings when the player is initialized. Make a note of the settings and reset them after initializing.

- When resetting, see the Initial Settings in the Operating Instructions.

#### 10.1.2. Initialization Method

The player will be initialized (return to the factory preset condition) when you press the "PAUSE," "SKIP/SEARCH<<" and "OPEN/CLOSE" buttons simultaneously. When the DVD player is initialized, "Initialized" appears on screen, it also displays "INITIALIZE".

Press them at the least for three seconds after you confirmed the display.



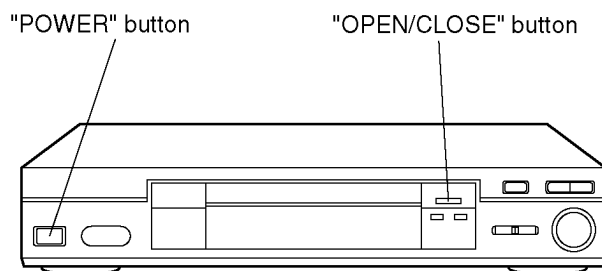
### 10.2. Handling After Completing Repairs

Use the following procedure to secure the traverse unit in the standby position.

#### 10.2.1. Method

Confirm that the power is turned on:

1. Press the "OPEN/CLOSE" button to close the tray.
2. Press the "POWER" button to turn off the power.
3. Disconnect the power plug from the outlet.



#### 10.2.2. Precautions

Do not disconnect the power plug from the outlet with the tray still open, then close the tray manually. If you were to do so, the traverse unit would not go to the upper (standby) position, and the player could not be transported.

# 11 Assembling and Disassembling the Optical Pickup (Mechanical Parts)

The optical pickup can be damaged by static electricity from your body. Be sure to take static electricity countermeasures when working around the optical pickup.

## 11.1. Handling the Optical Pickup

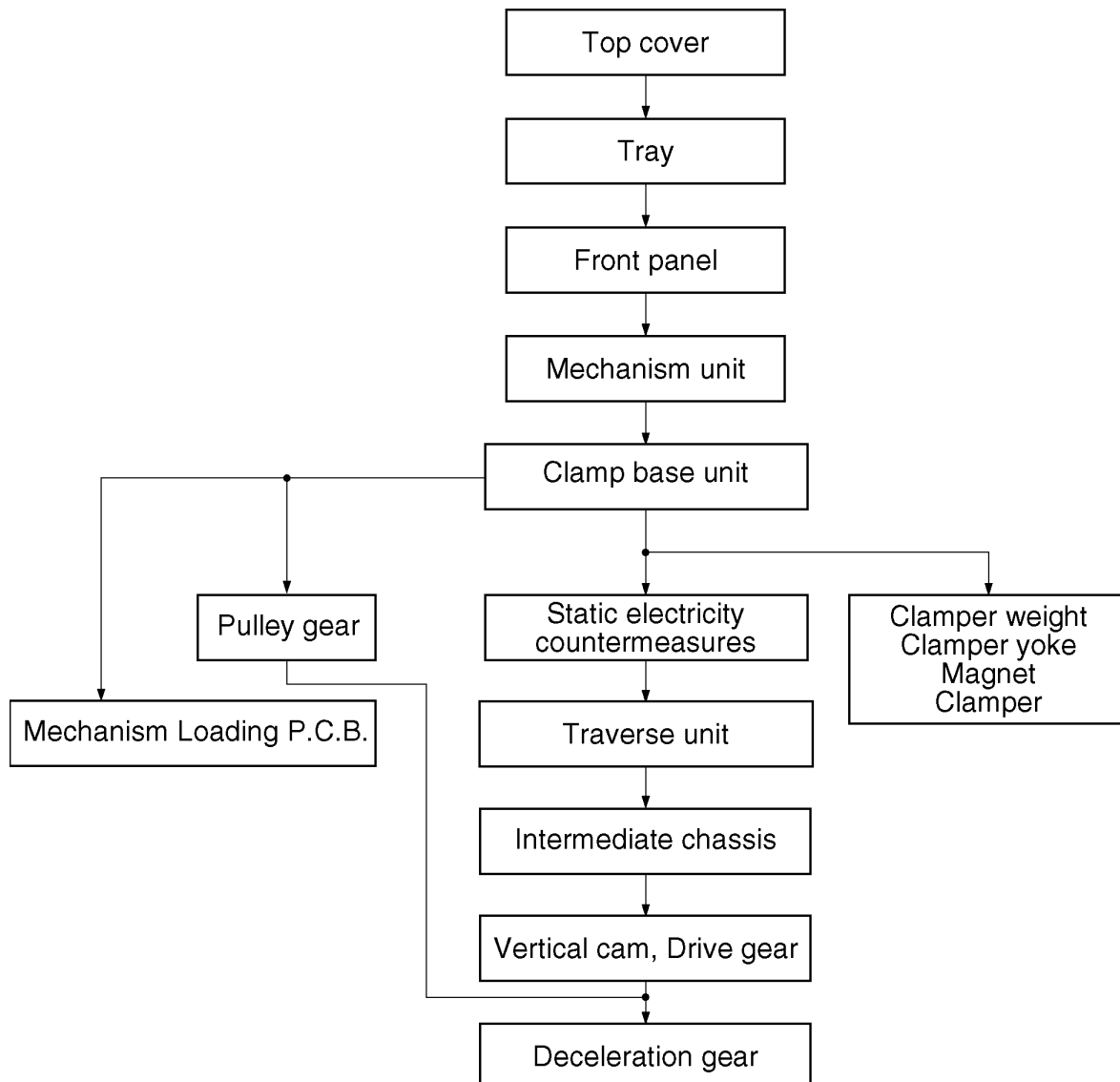
The optical pickup can be damaged by static electricity from your body. Be sure to take static electricity countermeasures when working around the optical pickup.

1. The optical pickup is an extremely high-precision mechanism. Do not subject it to strong impact.
2. To preserve the quality of the optical pickup replacement parts during transport and installation, the terminals of the laser diode are short-circuited. After replacing the parts, use the proper procedure to return the laser diode to its original condition. (Refer to section 11.10, Assembling the Optical Pickup.)
3. Testers cannot be used to check the laser diode of the optical pickup. The power supply inside the tester can easily damage the laser diode.
4. Take care when handling the flexible cable because excessive force can cause it to break.
5. You cannot adjust the semifixed resistor for laser power adjustment. Do not turn it.

## 11.2. Disassembly Procedure

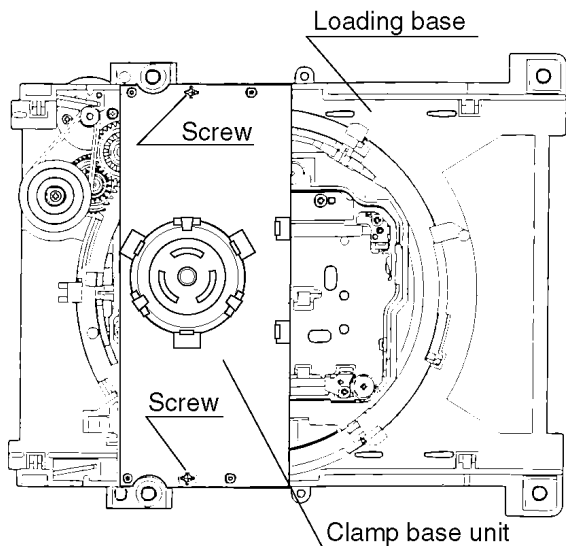
Use the following procedure to replace major parts.

For the assembly procedure, follow the flow chart in reverse.

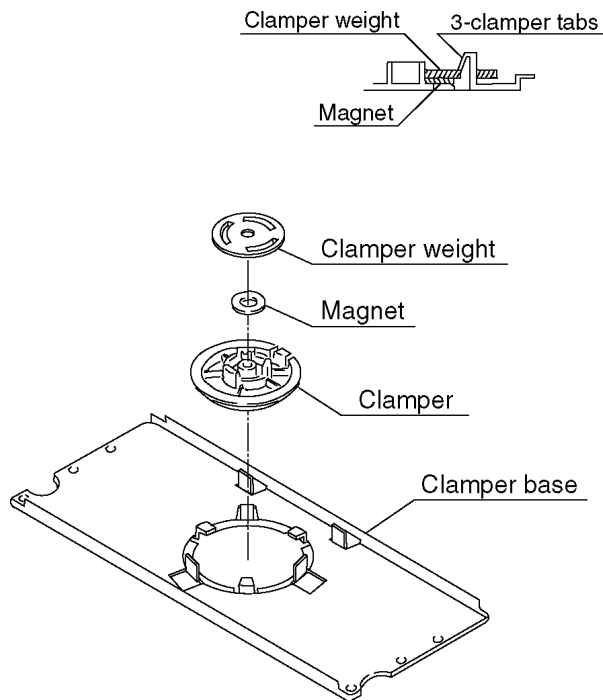


### 11.3. Disassembling the Clamp Base Unit

1. Remove the 2 screws.

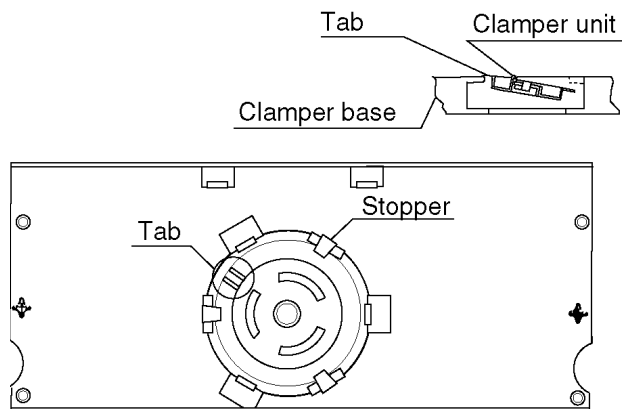


2. Release the 3 tabs on the clamper.



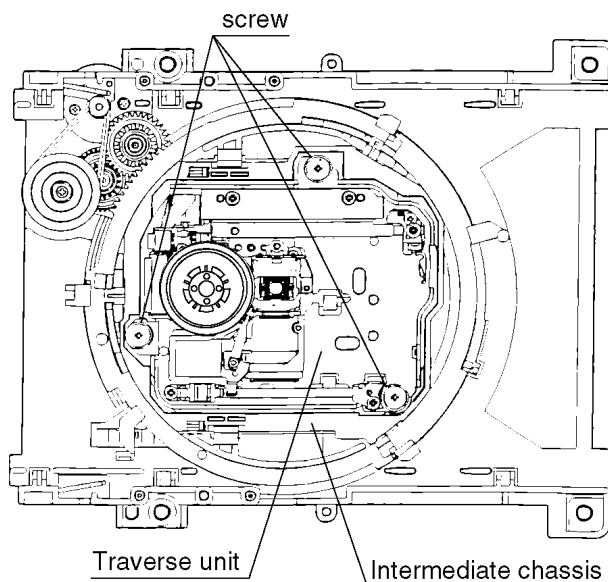
### 11.4. Disassembling the Clamper Weight, Clamper Yoke, Magnet and Clamper

1. Release the tab, and pull out the clamper.



### 11.5. Disassembling the Traverse Unit

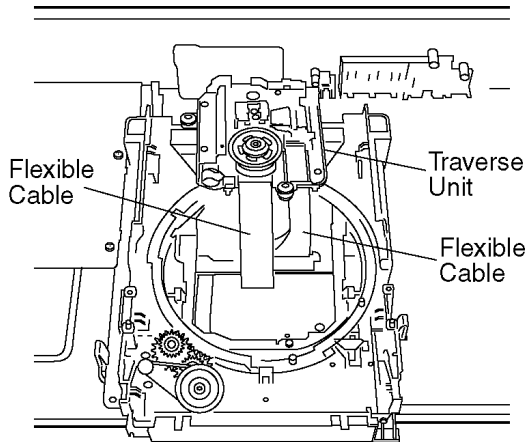
1. Remove the 3 screws.



**Note**

Be sure to take static electricity countermeasures before disconnecting the flexible cable. (Refer to section 4, HANDLING PRECAUTIONS FOR TRAVERSE DECK.)

2. Disconnect the 2 flexible cables.

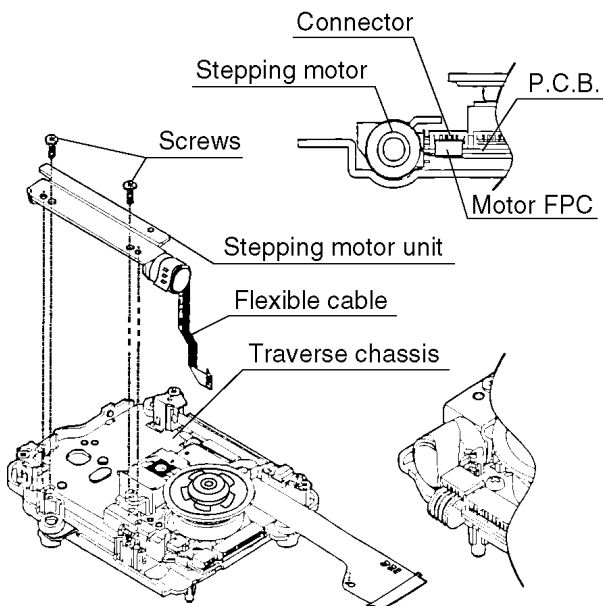


## 11.6. Disassembling the Stepping Motor Unit

1. Disconnect the flexible cable.
2. Remove the 2 screws.

### Note

Take care when handling the flexible cable because it can be broken by excessive force.



## 11.7. Disassembling the Optical Pickup Unit

1. Remove the screw.
2. Release the tab, then remove spring holder 1.

### Note

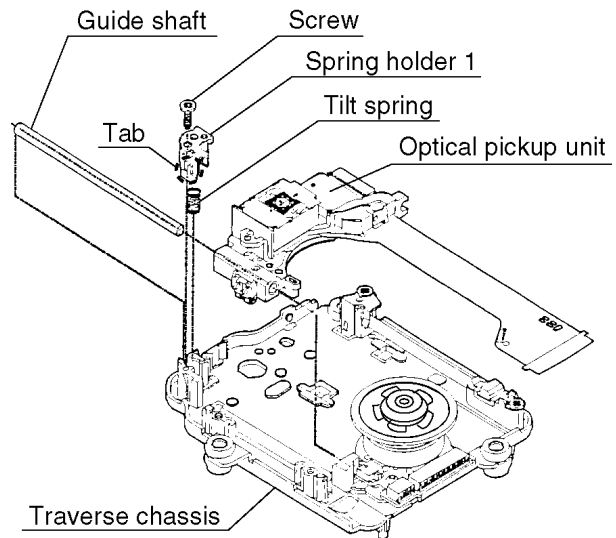
Be sure not to lose the spring.

3. Remove the guide shaft.

### Note

Be sure to adjust the optical pickup tilt after replacing the optical pickup.

(Refer to section 11.12, Optical Pickup Tilt Adjustment.)

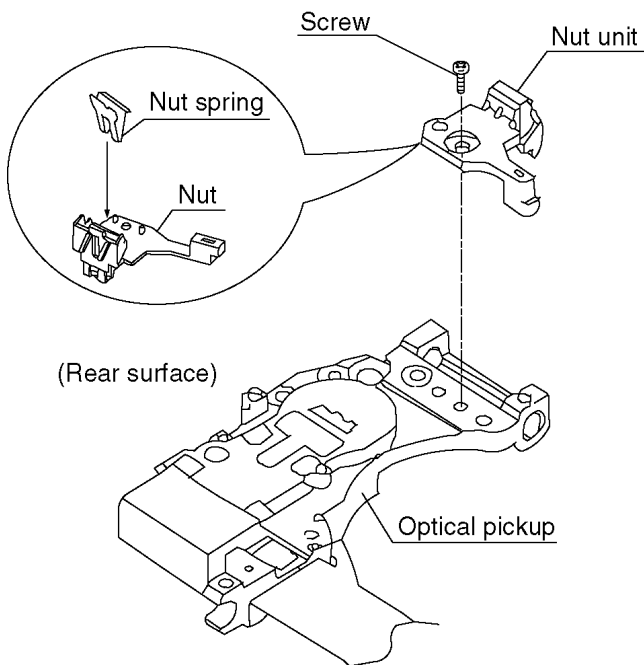


## 11.8. Disassembling the Nut Unit

1. Remove the screw.

### Notes

- The nut unit is not part of the optical pickup. Before replacing the optical pickup, remove the nut unit for use with the new optical pickup.
- After installation, use screw lock to lock the screw in position.
- When reassembling, use screw lock to lock the screw in position after attaching it.

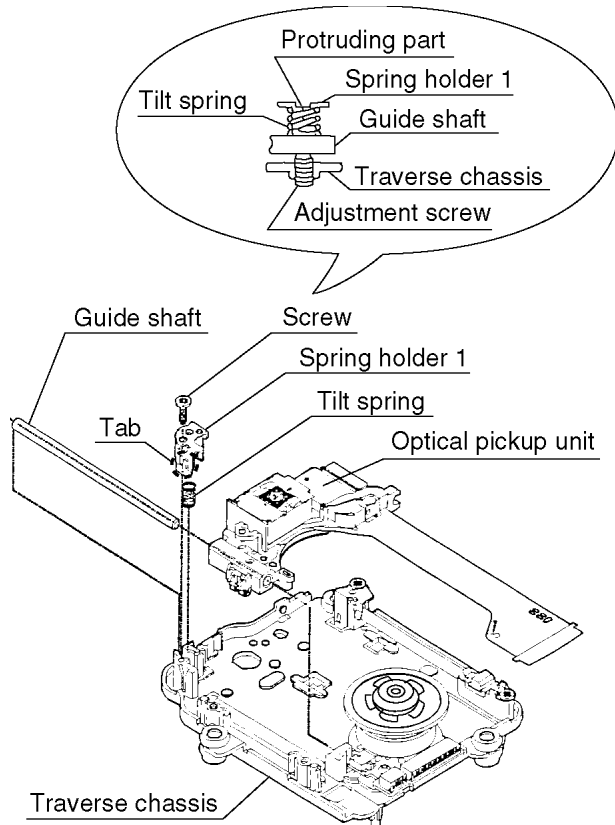


## 11.10. Assembling the Optical Pickup

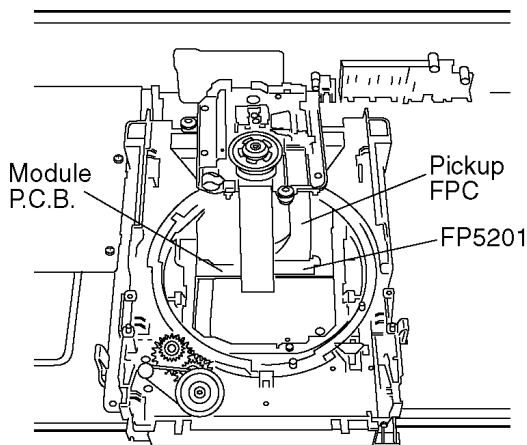
1. Install the optical pickup.

### Note

Take care not to attach the tilt spring and guide shaft in the wrong order.



2. Insert the pickup FPC into connector FP5201 on the module P.C.B.

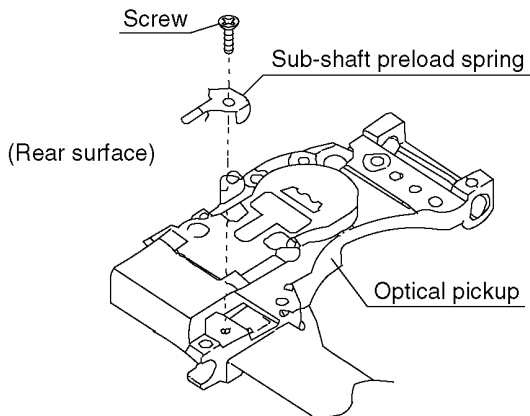


## 11.9. Disassembling the Sub-Shaft Preload Spring

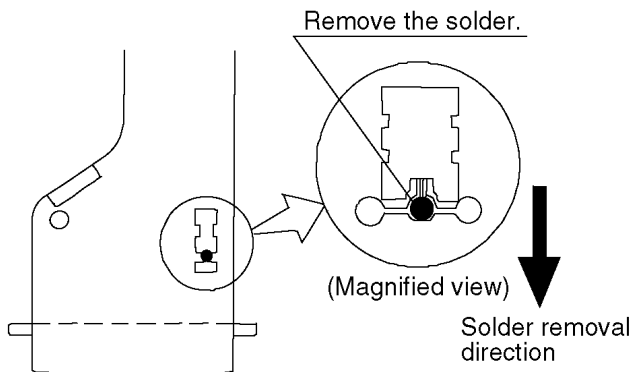
1. Remove the screw.

### Notes

- Handle the sub-shaft preload spring carefully because the shape of the tip is easily deformed.
- The sub-shaft preload spring is not part of the optical pickup. Before replacing the optical pickup, remove the sub-shaft preload spring for use with the new optical pickup.
- After installation, use screw lock to lock the screw in position.



3. Remove the solder from the pickup FPC's soldered short-circuit.



Open the circuit after short-circuiting it.

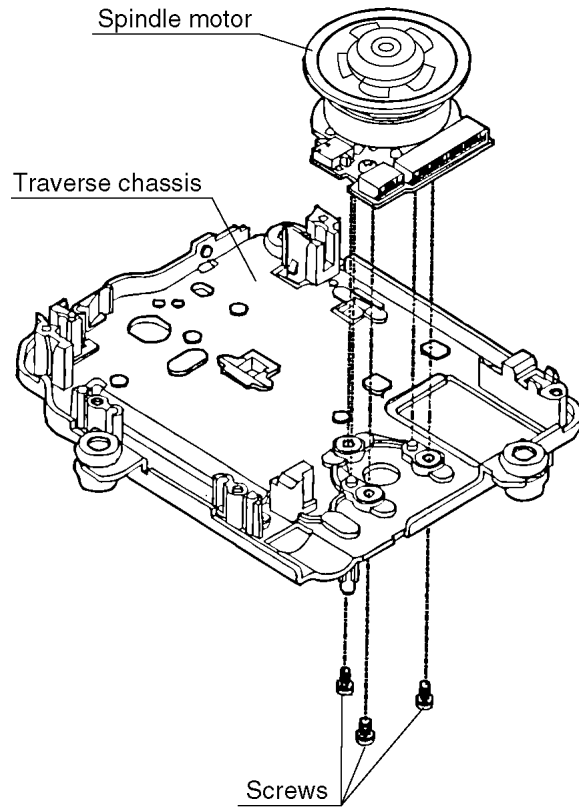
4. Adjust the optical pickup tilt after removing the solder. (Refer to section 11.12, Optical Pickup Tilt Adjustment.)

## 11.11. Disassembling the Spindle Motor Unit

1. Remove the three screws.

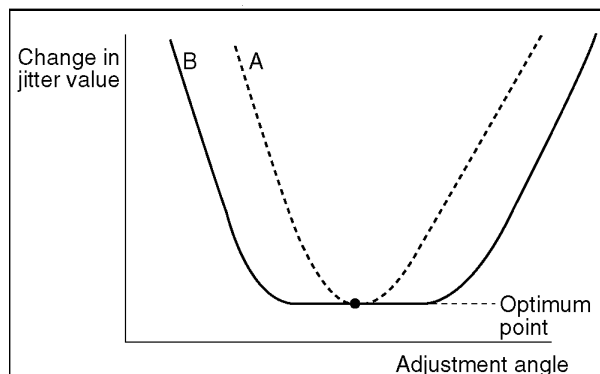
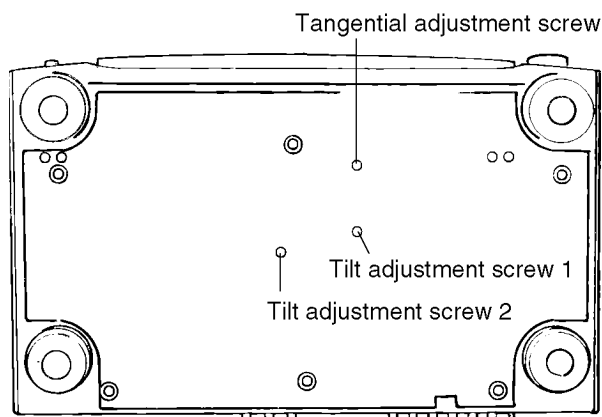
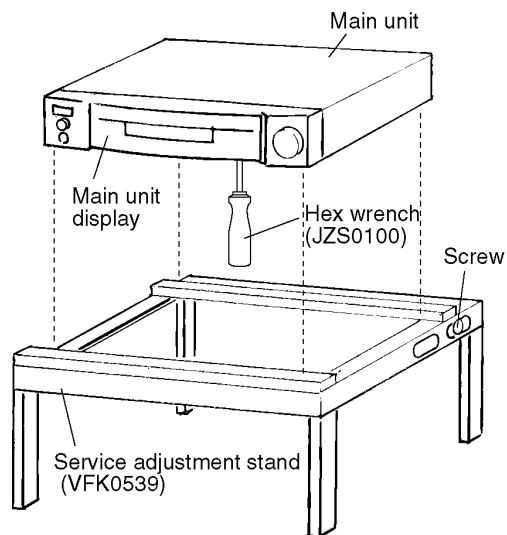
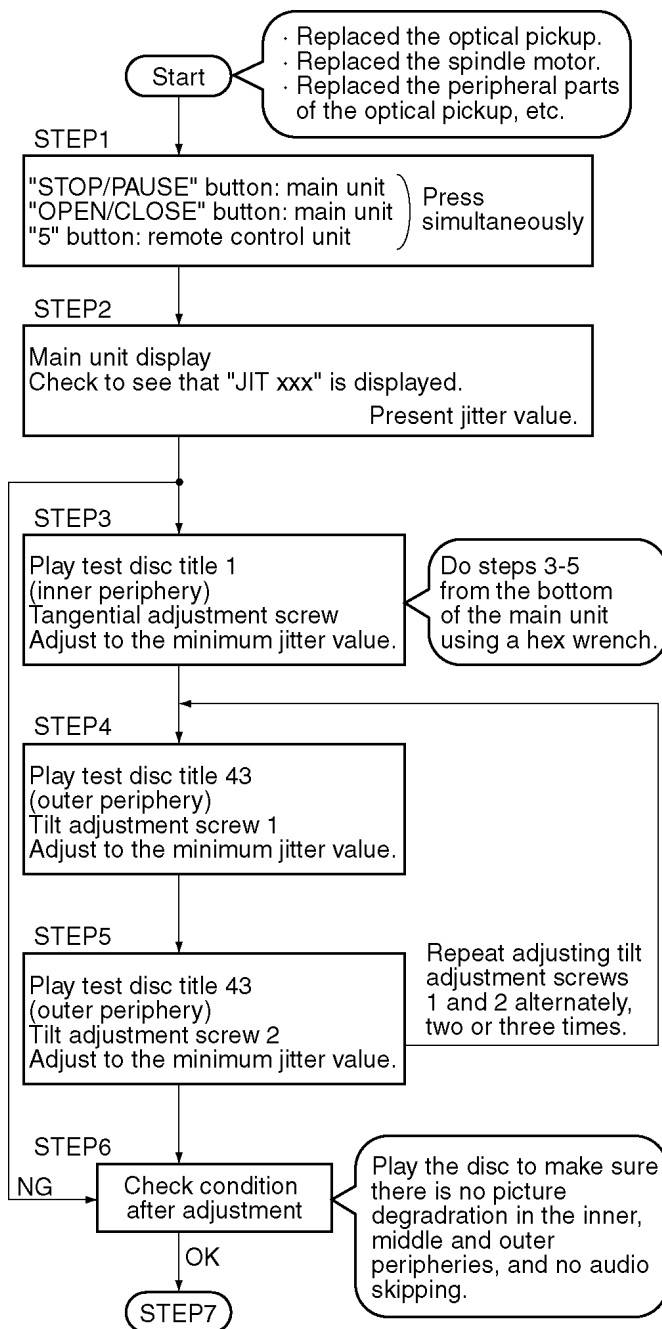
### Note

Be sure to adjust the optical pickup tilt after replacing the spindle motor unit.

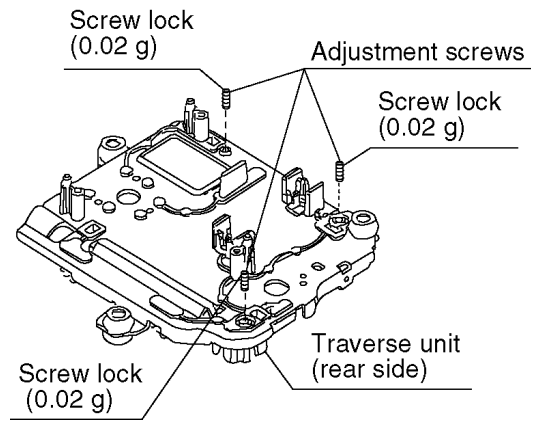
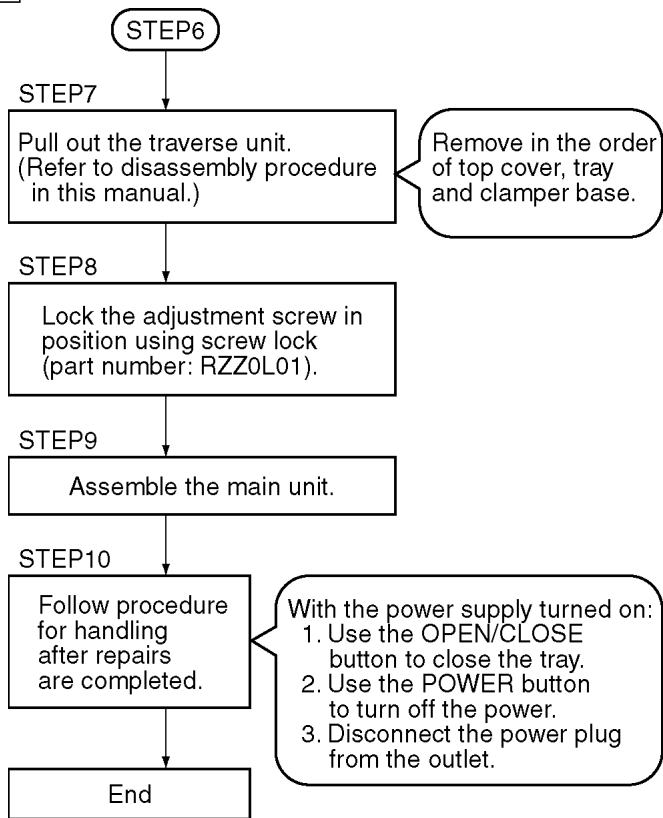


# 11.12. Optical Pickup Tilt Adjustment

Measurement point	Adjustment point	Mode	Disc
Main unit service display	Tangential adjustment screw Tilt adjustment screw	T1 (inner periphery) play T43 (outer periphery) play	DVDT-S15 or DVDT-S01
Measuring equipment, tools		Adjustment value	
Hex wrench (part number: JZS0100) Screw lock (part number: RZZ0L01)		Adjust to the minimum jitter value.	



- Jitter value depends on the model:
  - (1) If the jitter value changes like A, the optimum point is easy to find.
  - (2) If the jitter value changes like B, set the optimum point near the middle.



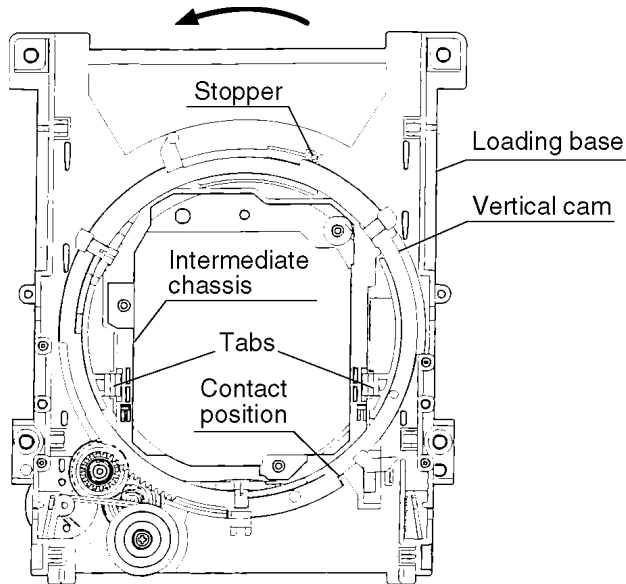
#### Notes

- Adjustment is generally unnecessary after replacing other parts of the traverse unit. However, adjust if there is a noticeable degradation in picture quality.
- Optical adjustments cannot be made inside the optical pickup.
- Adjustment is generally unnecessary after replacing the traverse unit.



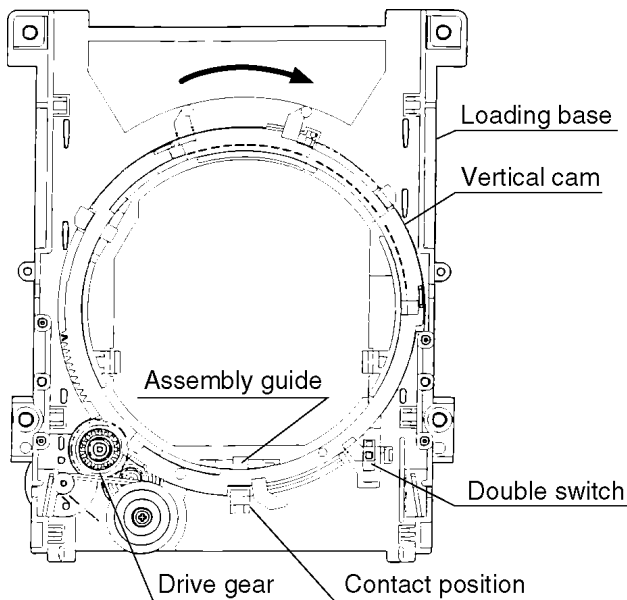
### 11.13. Disassembling the Intermediate Chassis

1. Push the stopper downward, then rotate it until it contacts the Vertical cam.
2. Release the 2 tabs.



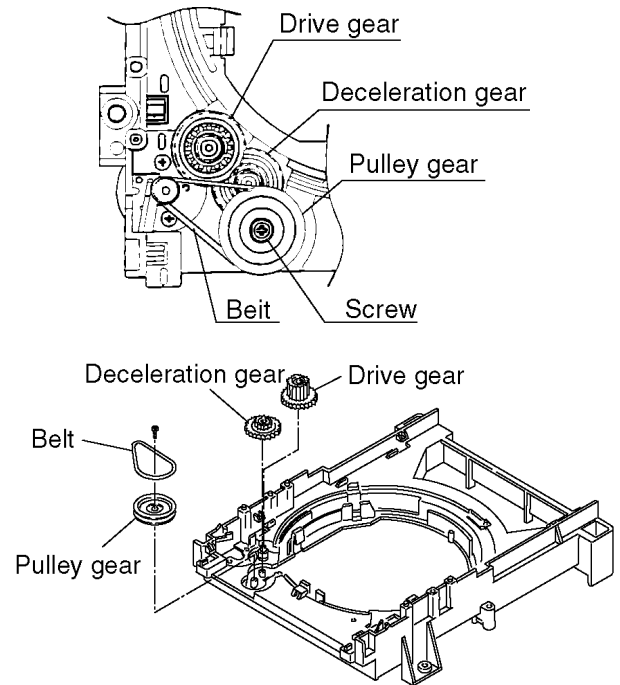
### 11.14. Disassembling the Vertical cam and Drive gear

1. Rotate the Vertical cam until it reaches the contact position.
2. Lift the Vertical cam straight upward to pull it out.
3. Remove the Drive gear.



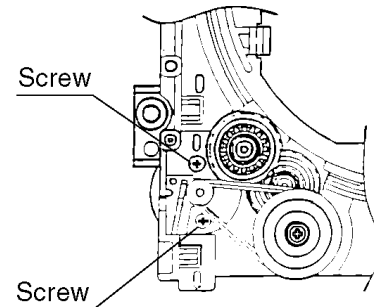
### 11.15. Disassembling the Pulley Gear and Deceleration Gear

1. Remove the screw.
2. Remove the pulley gear.
3. Remove the belt.
4. Remove the deceleration gear.



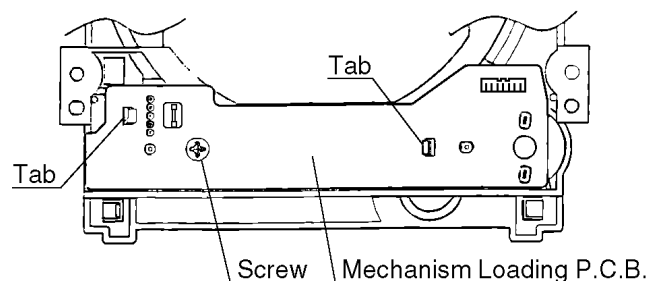
### 11.16. Disassembling the Mechanism Loading P.C.B.

1. Remove the 2 screws.



2. Remove the 2 screws.
3. Release the 2 tabs.

(Rear surface)



## 12 Electrical Adjustment

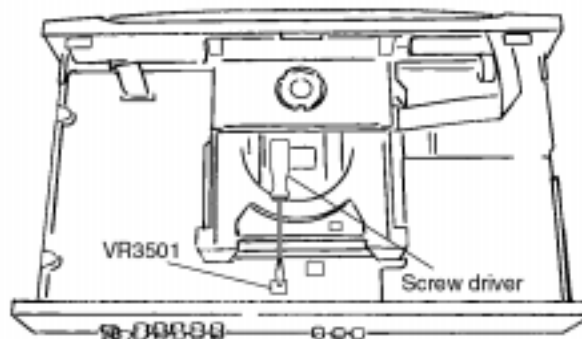
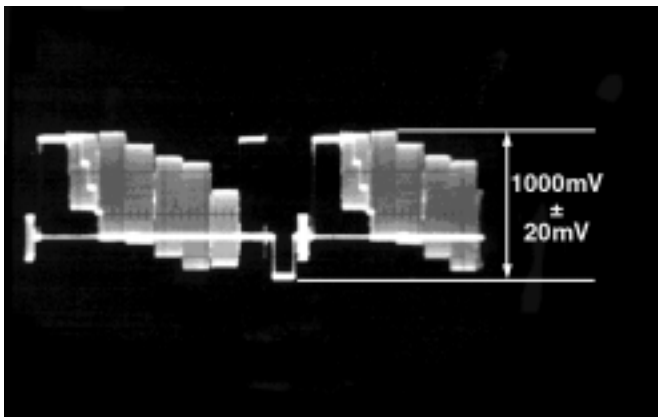
### 12.1. Video Output (Luminance Signal) Adjustment

Do this adjustment after replacing a P.C.B.

Measurement point	Adjustment point	Mode	Disc
Video output terminal	VR3501 (mother P.C.B.)	Color bar 75% PLAY (Title 46):DVDT-S15 PLAY (Title 12):DVDT-S01	DVDT-S15 or DVDT-S01
Measuring equipment, tools		Adjustment value	
Screwdriver, Oscilloscope 200mV/div, 10µsec/div		1000mVp-p±20mV	

Purpose: To maintain video signal output compatibility.

1. Connect the oscilloscope to the video output terminal and terminate at 75 ohms.
2. Adjust VR3501 so that the luminance signal (Y+S) level becomes 1000 mVp-p±20 mV.



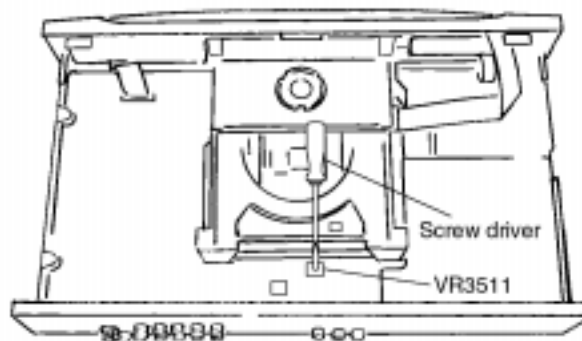
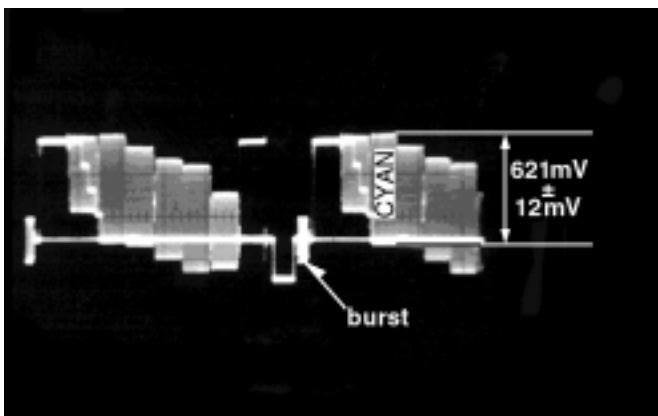
### 12.2. Video Output (Chrominance Signal) Adjustment

Do this adjustment after replacing a P.C.B.

Measurement point	Adjustment point	Mode	Disc
Video output terminal	VR3511 (mother P.C.B.)	Color bar 75% PLAY (Title 46):DVDT-S15 PLAY (Title 12):DVDT-S01	DVDT-S15 or DVDT-S01
Measuring equipment, tools		Adjustment value	
Screwdriver, Oscilloscope 200mV/div, 10µsec/div		621mVp-p±12mV	

Purpose: To maintain video signal output compatibility.

1. Connect the oscilloscope to the video output terminal and terminate at 75 ohms.
2. Adjust VR3511 so that the chrominance signal (C) level becomes 621 mVp-p±12 mV.



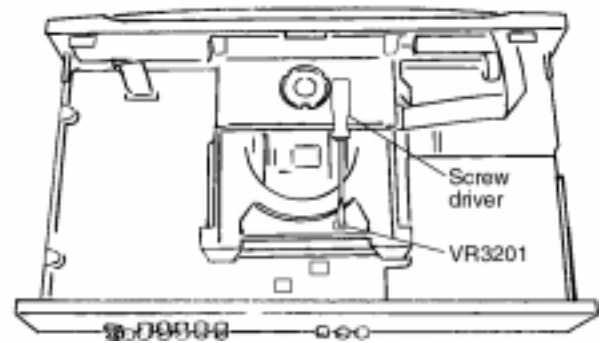
## 12.3. Video Component Signal (CB) Output Adjustment

Do this adjustment after replacing a P.C.B.

Measurement point	Adjustment point	Mode	Disc
Video output terminal (Y) (CB) Output terminal	VR3201 (module P.C.B.)	Color bar 75% PLAY (Title 46):DVDT-S15 PLAY (Title 12):DVDT-S01	DVDT-S15 or DVDT-S01
Measuring equipment, tools		Adjustment value	
Screwdriver, Oscilloscope 100mV/div, 10μsec/div		486mVp-p±10mV	

**Purpose:** To maintain video signal output compatibility.

1. Connect the oscilloscope to the video component output terminal and terminate at 75 ohms.
2. Apply the trigger at the Y output terminal signal.
3. Adjust VR3201 so that the video component signal (CB) level becomes 486 mVp-p ±10 mV.



# 13 Abbreviations

INITIAL/LOGO		ABBREVIATIONS
A	A0-UP	ADDRESS
	ACLK	AUDIO CLOCK
	AD0-UP	ADDRESS BUS
	ADATA	AUDIO PES PACKET DATA
	ALE	ADDRESS LATCH ENABLE
	AMUTE	AUDIO MUTE
	AREQ	AUDIO PES PACKET REQUEST
	ARF	AUDIO RF
	ASI	SERVO AMP INVERTED INPUT
	ASO	SERVO AMP OUTPUT
ASYN	AUDIO WORD DISTINCTION SYNC	
B	BCK	BIT CLOCK (PCM)
	BCKIN	BIT CLOCK INPUT
	BDO	BLACK DROP OUT
	BLKCK	SUB CODE BLOCK CLOCK
	BOTTOM	CAP. FOR BOTTOM HOLD
	BYP	BYPATH
BYTCK	BYTE CLOCK	
C	CAV	CONSTANT ANGULAR VELOCITY
	CBDO	CAP. BLACK DROP OUT
	CD	COMPACT DISC
	CDSCK	CD SERIAL DATA CLOCK
	CDSRDATA	CD SERIAL DATA
	CDRF	CD RF (EFM) SIGNAL
	CDV	COMPACT DISC-VIDEO
	CHNDATA	CHANNEL DATA
	CKSL	SYSTEM CLOCK SELECT
	CLV	CONSTANT LINEAR VELOCITY
	COFTR	CAP. OFF TRACK
	CPA	CPU ADDRESS
	CPCS	CPU CHIP SELECT
	CPDT	CPU DATA
	CPUADR	CPU ADDRESS LATCH
	CPUADT	CPU ADDRESS DATA BUS
	CPUIRQ	CPU INTERRUPT REQUEST
	CPRD	CPU READ ENABLE
	CPWR	CPU WRITE ENABLE
	CS	CHIP SELECT
	CSYNIN	COMPOSITE SYNC IN
	CSYNOUT	COMPOSITE SYNC OUT
	D	DACCK
DEEMP		DEEMPHASIS BIT ON/OFF
DEMPH		DEEMPHASIS SWITCHING
DIG0-UP		FL DIGIT OUTPUT
DIN		DATA INPUT
DMSRCK		DM SERIAL DATA READ CLOCK
DMUTE		DIGITAL MUTE CONTROL
DO		DROP OUT
DOUT0-UP		DATA OUTPUT
DRF		DATA SLICE RF (BIAS)
DRPOUT		DROP OUT SIGNAL
DREQ		DATA REQUEST
DRESP		DATA RESPONSE
DSC		DIGITAL SERVO CONTROLLER
DSLFF		DATA SLICE LOOP FILTER
DVD		DIGITAL VIDEO DISC

INITIAL/LOGO		ABBREVIATIONS
E	EC	ERROR TORQUE CONTROL
	ECR	ERROR TORQUE CONTROL REFERENCE
	ENCSEL	ENCODER SELECT
	ETMCLK	EXTERNAL M CLOCK (81MHz/40.5MHz)
ETSCLK	EXTERNAL S CLOCK (54MHz)	
F	FBAL	FOCUS BALANCE
	FCLK	FRAME CLOCK
	FE	FOCUS ERROR
	FFI	FOCUS ERROR AMP INVERTED INPUT
	FEO	FOCUS ERROR AMP OUTPUT
	FG	FREQUENCY GENERATOR
	FSC	FREQUENCY SUB CARRIER
FSC	FS (384 OVER SAMPLING) CLOCK	
G	GND	COMMON GROUNDING (EARTH)
H	HA0-UP	HOST ADDRESS
	HD0-UP	HOST DATA
	HINT	HOST INTERRUPT
	HRXW	HOST READ/WRITE
I	IECOUT	IEC958 FORMAT DATA OUTPUT
	IPFRAG	INTERPOLATION FLAG
	IREF	I (CURRENT) REFERENCE
ISEL	INTERFACE MODE SELECT	
L	LDON	LASER DIODE CONTROL
	LPC	LASER POWER CONTROL
	LRCK	L CH/R CH DISTINCTION CLOCK
M	MA0-UP	MEMORY ADDRESS
	MCK	MEMORY CLOCK
	MCKI	MEMORY CLOCK INPUT
	MCLK	MEMORY SERIAL COMMAND CLOCK
	MDATA	MEMORY SERIAL COMMAND DATA
	MDQ0-UP	MEMORY DATA INPUT/OUTPUT
	MDQM	MEMORY DATA I/O MASK
	MLD	MEMORY SERIAL COMMAND LOAD
MPEG	MOVING PICTURE EXPERTS GROUP	
O	ODC	OPTICAL DISC CONTROLLER
	OFTR	OFF TRACKING
	OSCI	OSCILLATOR INPUT
	OSCO	OSCILLATOR OUTPUT
OSD	ON SCREEN DISPLAY	
P	P1-UP	PORT
	PCD	CD TRACKING PHASE DIFFERENCE
	PCK	PLL CLOCK
	PDVD	DVD TRACKING PHASE DIFFERENCE
	PEAK	CAP. FOR PEAK HOLD
	PLLCLK	CHANNEL PLL CLOCK
	PLLOK	PLL LOCK
	PWMCTL	PWM OUTPUT CONTROL
	PWMDA	PULSE WAVE MOTOR DRIVE A
	PWMOA, B	PULSE WAVE MOTOR OUT A, B

INITIAL/LOGO		ABBREVIATIONS
R	RE	READ ENABLE
	RFENV	RF ENVELOPE
	RFO	RF PHASE DIFFERENCE OUTPUT
	RS	(CD-ROM) REGISTER SELECT
	RSEL	RF POLARITY SELECT
	RST	RESET
RSV	RESERVE	
S	SBI0, 1	SERIAL DATA INPUT
	SBO0	SERIAL DATA OUTPUT
	SBT0, 1	SERIAL CLOCK
	SCK	SERIAL DATA CLOCK
	SCKR	AUDIO SERIAL CLOCK RECEIVER
	SCL	SERIAL CLOCK
	SCLK	SERIAL CLOCK
	SDA	SERIAL DATA
	SEG0-UP	FL SEGMENT OUTPUT
	SELCLK	SELECT CLOCK
	SEN	SERIAL PORT ENABLE
	SIN1, 2	SERIAL DATA IN
	SOUT1, 2	SERIAL DATA OUT
	SPDI	SERIAL PORT DATA INPUT
	SPDO	SERIAL PORT DATA OUTPUT
	SPEN	SERIAL PORT R/W ENABLE
	SPRCLK	SERIAL PORT READ CLOCK
	SPWCLK	SERIAL PORT WRITE CLOCK
	SQCK	SUB CODE Q CLOCK
	SQCX	SUB CODE Q DATA READ CLOCK
	SRDATA	SERIAL DATA
	SRMADR	SRAM ADDRESS BUS
	SRMDT0-7	SRAM DATA BUS 0-7
	SS	START/STOP
	STAT	STATUS
	STCLK	STREAM DATA CLOCK
	STD0-UP	STREAM DATA
	STENABLE	STREAM DATA INPUT ENABLE
	STSEL	STREAM DATA POLARITY SELECT
	STVALID	STREAM DATA VALIDITY
	SUBC	SUB CODE SERIAL
	SBCK	SUB CODE CLOCK
	SUBQ	SUB CODE Q DATA
SYSCLK	SYSTEM CLOCK	
T	TE	TRACKING ERROR
	TIBAL	BALANCE CONTROL
	TID	BALANCE OUTPUT 1
	TIN	BALANCE INPUT
	TIP	BALANCE INPUT
	TIS	BALANCE OUTPUT 2
	TPSN	OP AMP INPUT
	TPSO	OP AMP OUTPUT
	TPSP	OP AMP INVERTED INPUT
	TRCRS	TRACK CROSS SIGNAL
	TRON	TRACKING ON
	TRSON	TRAVERSE SERVO ON

INITIAL/LOGO		ABBREVIATIONS
V	VBLANK	V BLANKING
	VCC	COLLECTOR POWER SUPPLY VOLTAGE
	VCDCONT	VIDEO CD CONTROL (TRACKING BALANCE)
	VDD	DRAIN POWER SUPPLY VOLTAGE
	VFB	VIDEO FEED BACK
	VREF	VOLTAGE REFERENCE
VSS	SOURCE POWER SUPPLY VOLTAGE	
W	WAIT	BUS CYCLE WAIT
	WDCK	WORD CLOCK
	WEH	WRITE ENABLE HIGH
	WSR	WORD SELECT RECEIVER
X	X	X' TAL
	XALE	X ADDRESS LATCH ENABLE
	XAREQ	X AUDIO DATA REQUEST
	XCDROM	X CD ROM CHIP SELECT
	XCS	X CHIP SELECT
	XCSYNC	X COMPOSITE SYNC
	XDS	X DATA STROBE
	XHSYNCO	X HORIZONTAL SYNC OUTPUT
	XHINT	XH INTERRUPT REQUEST
	XI	X' TAL OSCILLATOR INPUT
	XINT	X INTERRUPT
	XMW	X MEMORY WRITE ENABLE
	XO	X' TAL OSCILLATOR OUTPUT
	XRE	X READ ENABLE
	XSRMCE	X SRAM CHIP ENABLE
	XSRMOE	X SRAM OUTPUT ENABLE
	XSRMWE	X SRAM WRITE ENABLE
	XVCS	X V-DEC CHIP SELECT
	XVDS	X V-DEC CONTROL BUS STROBE
XVSYNCO	X VERTICAL SYNC OUTPUT	

# 14 VOLTAGE CHART

## 14.1. POWER SUPPLY P.C.B.

Ref No.	IC1021							IC2201			IC1125									
MODE	1	2	3	4	5	6	7	A	K	R	1	2	3	4						
STOP	-26.0	0	0	0	17.0	0.5	0.2	0	3.9	2.5	5.1	3.3	0	3.4						
PLAY	-26.0	0	0	0	17.0	0.5	0.2	0	3.9	2.5	5.1	3.3	0	3.4						
Ref No.	IC1151																			
MODE	1	2	3	4	5															
STOP	0	3.4	8.9	8.9	12.5															
PLAY	0	3.4	8.9	8.9	12.5															
Ref No.	Q1051				Q1111															
MODE	1	2	3	4	S	D	G													
STOP	5.2	4.1	0.5	16.6	5.1	5.1	0													
PLAY	5.2	4.1	0.5	16.6	5.1	5.1	0													
Ref No.	QR1111																			
MODE	E	C	B																	
STOP	0	0	3.4																	
PLAY	0	0	3.4																	

## 14.2. MODULE P.C.B.

Ref No.	IC2001																				
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
STOP	1.7	1.6	1.6	3.3	1.7	0	0	1.6	1.6	1.5	0	0	0	3.3	1.6	2.8	0.2	2.2	1.5	0	
PLAY	1.5	0	1.7	3.3	1.5	1.7	0	1.6	1.6	1.5	1.5	1.5	1.6	3.3	1.7	2.8	0.2	2.2	1.5	0	
Ref No.	IC2001																				
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
STOP	2.2	2.2	0	0	1.5	2.2	3.3	1.7	0	0	1.7	0.4	1.7	1.6	0	1.6	1.7	3.3	0	1.7	
PLAY	1.8	1.7	1.5	1.7	1.5	2.2	3.3	1.7	1.2	0	1.7	1.2	1.7	1.6	0	1.6	1.7	3.3	1.7	1.7	
Ref No.	IC2001																				
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	
STOP	0	2.1	1.4	1.6	0	3.3	3.0	1.5	0	0	0	0	0	0	0	0	0	2.5	0	0	
PLAY	0	2.0	1.6	1.7	0	3.3	0	0	0	0.4	1.5	1.6	1.4	3.3	3.3	0	0	3.0	3.0	0	
Ref No.	IC2001																				
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	
STOP	3.3	0	0	0	0	0	3.3	0	0	1.4	0	0	0	0	3.3	1.6	1.6	1.6	1.6	0	
PLAY	3.3	0	3.3	0	0	0	0	1.7	0	1.4	0	0	0	0	0	1.6	1.6	1.6	1.6	1.6	
Ref No.	IC2001																				
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	
STOP	0	0	0	3.2	3.3	3.3	3.3	3.1	3.3	3.1	0	0	0	0.1	0	2.5	1.7	1.6	1.6	1.7	
PLAY	0	3.3	3.3	3.3	0	0	3.3	3.2	3.3	3.1	0	0	0	0	0	2.5	1.4	1.8	1.4	2.2	
Ref No.	IC2501																				
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
STOP	0	5.0	5.0	0	5.1	5.1	5.1	5.1	5.1	0	5.0	2.7	3.3	0	0	5.0	1.7	1.7	0	0	
PLAY	0	0	0	0	2.9	2.9	0.8	0	0	3.3	5.0	1.4	3.3	0	0	5.0	0	1.6	0	0.6	
Ref No.	IC2501																				
MODE	21	22	23	24	25	26	27	28													
STOP	9.0	9.0	0	0	0	1.5	1.6	1.7													
PLAY	9.0	9.0	0	0	0	7.4	7.4	7.4													
Ref No.	IC2511																				
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
STOP	1.7	1.7	1.7	1.6	1.7	1.6	1.6	0	0	5.1	2.4	0.5	0.5	0.5	6.7	7.0	7.1	7.4	9.0	0	
PLAY	1.7	1.7	1.7	1.7	1.7	0	1.7	0	3.3	5.0	2.6	2.4	2.4	2.7	4.8	3.7	3.4	5.0	9.0	0	
Ref No.	IC2511																				
MODE	21	22	23	24	25	26	27	28													
STOP	0	1.9	1.9	1.7	2.0	2.0	1.7	9.0													
PLAY	0	1.5	1.7	1.7	1.8	1.7	1.7	9.0													

Ref No.	IC3001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	3.3	0	1.2	0	0	1.2	0	1.0	3.3	1.2	3.3	3.2	3.3	1.8	0	0	0	0	0	0
PLAY	3.3	0	1.1	0	0	1.1	0	1.0	3.3	2.0	3.3	3.2	3.3	1.8	0	0	0	0	0	0
Ref No.	IC3001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	0	0	0	0	0	0	3.3	3.3	0	3.3	3.1	3.3	1.5	3.3	3.0	3.0	2.9	3.0	1.8	2.8
PLAY	0	0	0	0	0	0	0	3.3	0	3.3	3.3	3.3	1.5	3.3	3.3	3.3	3.3	0	1.8	3.3
Ref No.	IC3001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	3.1	2.8	2.7	0	2.9	2.9	2.9	3.3	3.1	3.1	3.1	0	3.3	3.1	3.1	3.1	3.2	0	3.2	3.1
PLAY	0	3.3	3.3	0	3.3	0	0	3.3	3.3	3.3	0	0	3.3	3.3	3.3	3.3	3.3	0	3.3	3.3
Ref No.	IC3001																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
STOP	3.1	3.1	1.8	3.1	3.2	3.1	3.2	0	3.2	0	1.6	3.3	3.3	3.3	3.3	0	3.3	0	1.8	0
PLAY	3.3	3.3	1.8	3.3	3.3	3.3	3.3	0	3.3	0	1.6	3.3	3.3	3.3	0	3.3	3.3	3.3	1.8	3.3
Ref No.	IC3001																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
STOP	3.3	0	3.3	0	1.6	0	1.8	1.4	1.6	1.6	3.3	0	0	0	0	0	0	3.3	1.6	3.3
PLAY	3.3	3.3	3.3	1.7	0	1.8	1.4	1.7	1.6	0	0	0	0	0	0	3.3	1.5	3.3	3.3	3.3
Ref No.	IC3001																			
MODE	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
STOP	1.1	0	0	1.8	1.8	0	0	1.8	3.3	1.6	3.3	3.3	0.6	0	0	1.0	1.0	2.3	0.6	3.3
PLAY	1.3	0	0.2	1.8	0	0	0	0	3.3	1.6	3.3	3.3	0	0	0	1.0	0	0	0.6	3.3
Ref No.	IC3001																			
MODE	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140
STOP	0.6	0.6	2.4	0.4	0	0.6	0.6	2.3	0.4	3.3	1.3	1.3	2.2	0.4	0	0	0	0	0	0
PLAY	0.6	0.6	0	0.4	0	0.6	0.6	2.3	0.4	3.3	1.3	2.2	0.5	0	0	0	0	0	0	0
Ref No.	IC3001																			
MODE	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160
STOP	0	0	3.3	3.1	0	1.8	0	0	0	0	0	0	0	0	0	3.3	0	2.8	2.9	3.3
PLAY	0	0	3.3	3.1	0	1.8	0	0	0	0	0	0	0	0	0	3.3	0	2.7	0	3.3
Ref No.	IC3001																			
MODE	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180
STOP	2.6	2.8	0	2.7	2.8	3.3	3.0	2.8	0	2.8	3.1	3.3	0	1.8	2.9	0	2.8	2.7	3.3	2.9
PLAY	2.6	2.7	0	2.6	2.5	3.3	2.5	2.5	0	2.5	2.6	3.3	2.5	1.8	2.6	0	3.3	3.3	3.3	2.6
Ref No.	IC3001																			
MODE	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200
STOP	2.8	0	1.7	3.3	0	0	0	1.8	2.6	3.3	3.3	0	3.2	0	0	3.1	3.3	3.3	3.0	0
PLAY	2.6	0	1.6	3.3	1.6	0	3.3	1.8	2.2	3.3	3.3	1.9	3.3	3.3	3.2	3.3	3.3	3.0	0	0
Ref No.	IC3001																			
MODE	201	202	203	204	205	206	207	208												
STOP	0	1.8	1.2	0	3.3	0	0.9	0												
PLAY	0	0	1.4	0	0	0	1.2	0												
Ref No.	IC3002																			
MODE	1	2	3	4	5															
STOP	2.6	2.6	1.8	0	0															
PLAY	2.6	2.6	1.8	0	0															
Ref No.	IC3061																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	3.3	2.8	2.8	0	2.8	3.3	3.3	3.1	2.9	0	2.7	2.8	3.3	2.6	3.2	3.2	3.1	3.0	1.2	0
PLAY	3.3	3.1	3.1	0	3.3	3.3	3.3	3.3	3.3	0	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	0	0
Ref No.	IC3061																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	0	0	0	1.2	3.3	0	1.0	0	0	0	0	0	0	3.3	1.7	2.6	0	3.3	2.9	2.8
PLAY	0	0	0	0	3.3	0	0	0	1.4	0	0	0	0	0	0	0	0	3.3	0	2.5
Ref No.	IC3061										IC3091									
MODE	41	42	43	44	45	46	47	48	49	50		1	2	3	4	5	6			
STOP	0	2.6	0	3.3	2.9	2.8	0	2.6	2.8	0		5.0	0	1.3	3.3	0	5.0			
PLAY	0	2.5	2.5	3.3	2.7	2.6	0	0	0.2	0		5.0	0	1.3	3.3	0	5.0			
Ref No.	IC3251																			
MODE	1	2	3	4	5	6														
STOP	5.0	0	1.3	3.3	0	5.0														
PLAY	5.0	0	1.3	3.3	0	5.0														
Ref No.	IC4201																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	1.7	0	1.6	1.7	1.6	2.6	0	4.9	4.9	0	2.4	0	0	0	4.9	2.5	0	2.4	0	4.9
PLAY	1.7	1.2	1.6	1.7	1.6	2.6	0	4.9	4.9	0	2.4	0	2.4	0	4.9	0	0	0	0	0
Ref No.	IC4201																			
MODE	21	22	23	24	25	26	27	28												
STOP	0.2	3.2	0	0	4.9	3.3	3.2	3.3												
PLAY	4.2	3.2	0	4.9	4.9	0	3.2	3.3												
Ref No.	IC5201																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0	4.4	0.9	0.9	0	1.7	1.7	1.9	0.6	1.6	1.6	3.2	1.7	3.3	3.3	3.3	0	0	1.7	1.7
PLAY	0.6	3.3	1.3	1.3	0	1.7	1.7	1.9	1.1	1.6	1.6	3.2	1.7	3.3	3.2	3.3	1.2	0	1.7	1.7
Ref No.	IC5201																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	3.3	0	0	0	0	0	1.7	1.7	0	0	0	2.2	2.1	5.0	5.0	2.8	2.1	0	1.6	3.4
PLAY	3.3	3.3	3.2	1.2	0	0	1.7	1.7	1.7	1.7	1.7	1.9	2.1	0	4.9	2.8	2.1	0.1	1.6	3.4
Ref No.	IC5201																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	3.6	2.1	1.1	2.2	2.2	0	1.7	1.5	1.7	2.2	0	2.2	2.2	2.2	2.2	2.2	2.2	0	0	0
PLAY	3.7	2.2	1.2	2.2	2.2	0	0	1.5	1.7	2.2	0	0	2.2	0	0	1.9	0	0	0	0
Ref No.	IC5201																			
MODE	61	62	63	64																
STOP	5.0	0	0	0																
PLAY	0	2.2	0	0																





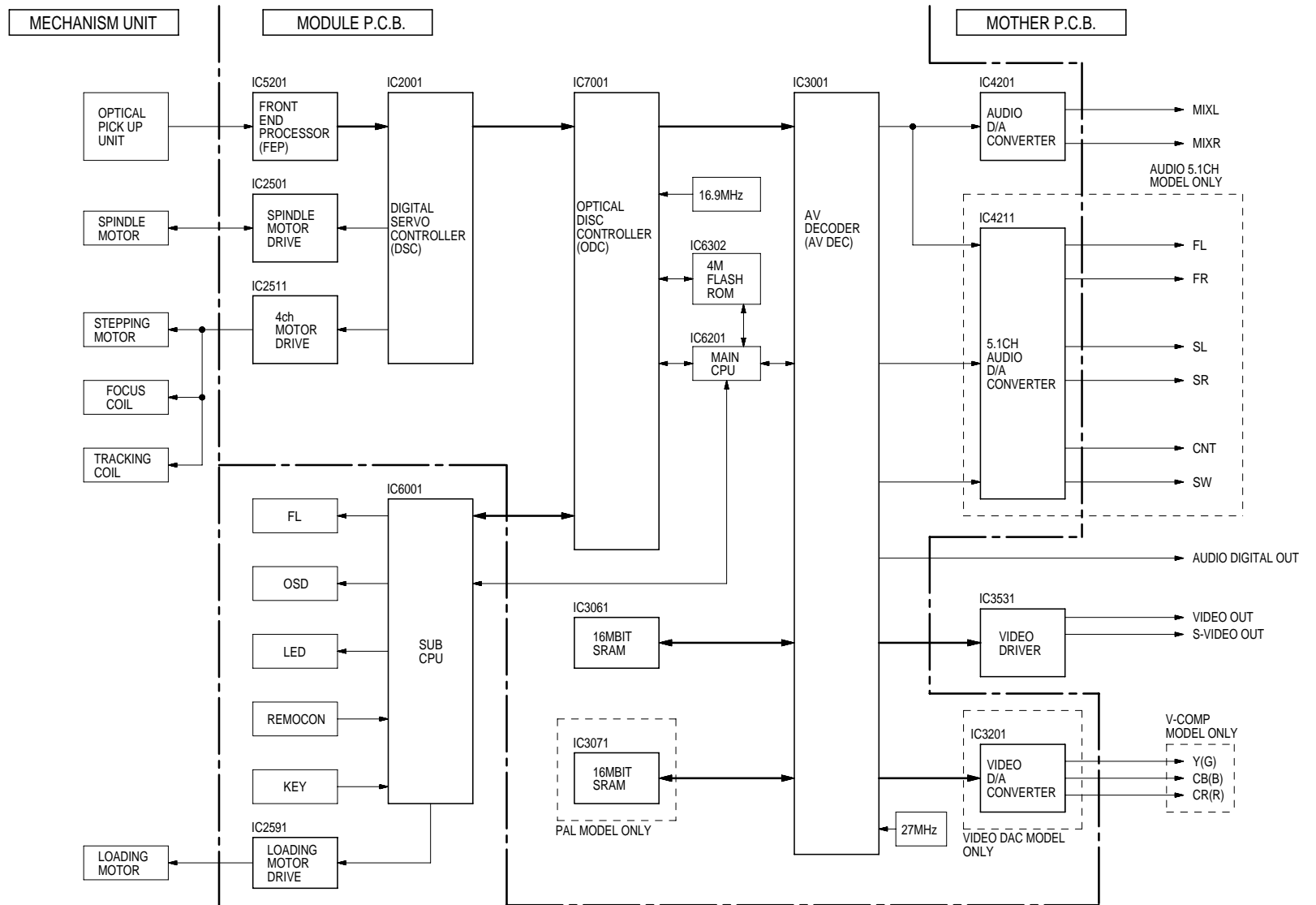
## 14.3. MOTHER P.C.B.

Ref No.	IC2591																																	
MODE	1	2	3	4	5	6	7	8	9																									
STOP	7.4	0.2	0	0.2	9.0	9.0	0	0	0																									
PLAY	7.4	2.8	0	2.8	9.0	9.0	0	0	0																									
Ref No.	IC3511																																	
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20														
STOP	3.2	0.7	1.0	0	0	4.9	0.7	0	0.7	0	0.9	0	0.1	0.1	1.3	0.9	4.9	0.9	0	1.5														
PLAY	3.2	0.9	1.2	0	0	4.9	0.7	0	0.7	0	0	0	0.1	0.1	1.3	0.9	4.9	0.9	0	1.8														
Ref No.	IC3511																																	
MODE	21	22	23	24																														
STOP	1.5	4.9	0	0.4																														
PLAY	1.9	0	0.4	0.4																														
Ref No.	IC4321										IC4471																							
MODE	1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8																	
STOP	0	0	0	-8.1	0	0	0	8.1		0	0	0	-8.1	0	0	0	8.1																	
PLAY	0	0	0	-8.1	0	0	0	8.1		0	0	0	-8.1	0	0	0	8.1																	
Ref No.	IC4781					IC4902					IC4911																							
MODE	1	2	3		1	2	3		1	2	3																							
STOP	1.7	5.1	0		8.1	0	10.1		0	-10.2	-8.1																							
PLAY	1.7	5.1	0		8.1	0	10.1		0	-10.2	-8.1																							
Ref No.	IC6001																																	
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20														
STOP	1.5	3.8	4.3	5.1	5.1	5.1	0	5.1	2.4	2.5	0	0	5.1	0	0	5.1	5.1	5.1	1.9	1.9														
PLAY	1.5	3.8	4.3	5.1	0	5.1	0	5.1	2.4	2.5	0	0	5.1	0	0	5.1	5.1	5.1	1.2	1.2														
Ref No.	IC6001																																	
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40														
STOP	1.8	1.9	1.8	5.1	0	5.1	5.1	0	0	0	0	0	5.1	2.0	1.9	1.3	1.4	1.0	5.1	0														
PLAY	1.2	1.3	1.3	5.1	0	5.1	5.1	0	0	0	0	0	5.1	0.7	0.7	0.7	0.7	0.7	5.1	0														
Ref No.	IC6001																																	
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60														
STOP	1.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	2.8	4.9	-25.0	-25.0	-24.9	-24.9	-24.9	-24.9	-24.9	-24.9	-24.9														
PLAY	0.8	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-4.8	4.9	-25.1	-25.1	-25.1	-24.9	-24.9	-24.9	-24.9	-24.9	-24.9														
Ref No.	IC6001																																	
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80														
STOP	-24.9	-24.9	-24.9	-24.9	-15.5	-24.6	-24.6	-24.6	-20.0	-20.0	-20.0	-20.1	-22.5	-20.3	-24.9	-24.9	-24.9	-22.5	-15.5	3.8														
PLAY	-24.9	-24.9	-24.9	-24.9	-8.6	-22.4	-20.0	-24.7	-8.7	-8.6	-20.2	-20.2	-9.0	-13.6	-24.9	-24.9	-24.9	-18.1	-11.2	3.7														
Ref No.	IC6001																																	
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100														
STOP	3.7	3.8	3.8	4.1	3.8	4.4	4.4	4.4	4.5	4.1	4.6	4.6	4.2	4.4	4.5	4.5	4.4	4.4	4.4	-27.1														
PLAY	0	0	3.6	3.9	0	0	0	4.2	4.2	0	4.4	4.5	0	4.3	0	4.3	4.3	4.3	4.3	-27.3														
Ref No.	IC6002					IC6003					IC6004					IC6005																		
MODE	1	2	3	4		1	2	3		1	2	3	4	5		1	2	3	4	5														
STOP	0	0	5.1	5.1		5.1	0	5.1		2.8	2.8	0	4.3	5.1		2.5	2.5	0	3.9	5.1														
PLAY	0	0	5.1	5.1		5.1	0	5.1		2.8	2.8	0	4.3	5.1		2.5	2.5	0	3.8	5.1														
Ref No.	Q3501				Q4501				Q4511				Q4521				Q4531																	
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B															
STOP	0.6	4.9	1.2		0	0	0.7		0	0	0.7		0	0	-4.8		0	0	0.7															
PLAY	0.7	4.9	1.4		0	0	-4.8		0	0	-4.8		0	0	-4.8		0	0	-4.8															
Ref No.	Q6009																																	
MODE	E	C	B																															
STOP	-20.2	-20.1	-19.4																															
PLAY	-20.1	-20.1	-19.4																															
Ref No.	QR3521				QR4521				QR4593				QR4594				QR4596																	
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B															
STOP	0	5.0	0		0	-4.8	0		0	2.9	0.2		2.9	2.8	0		2.9	2.8	0															
PLAY	0	5.0	0		0	-4.8	0		0	0.1	3.8		0.1	-4.8	0		0	-4.8	0															
Ref No.	QR6009																																	
MODE	E	C	B																															
STOP	5.1	-2.1	5.1																															
PLAY	5.1	-2.0	5.1																															

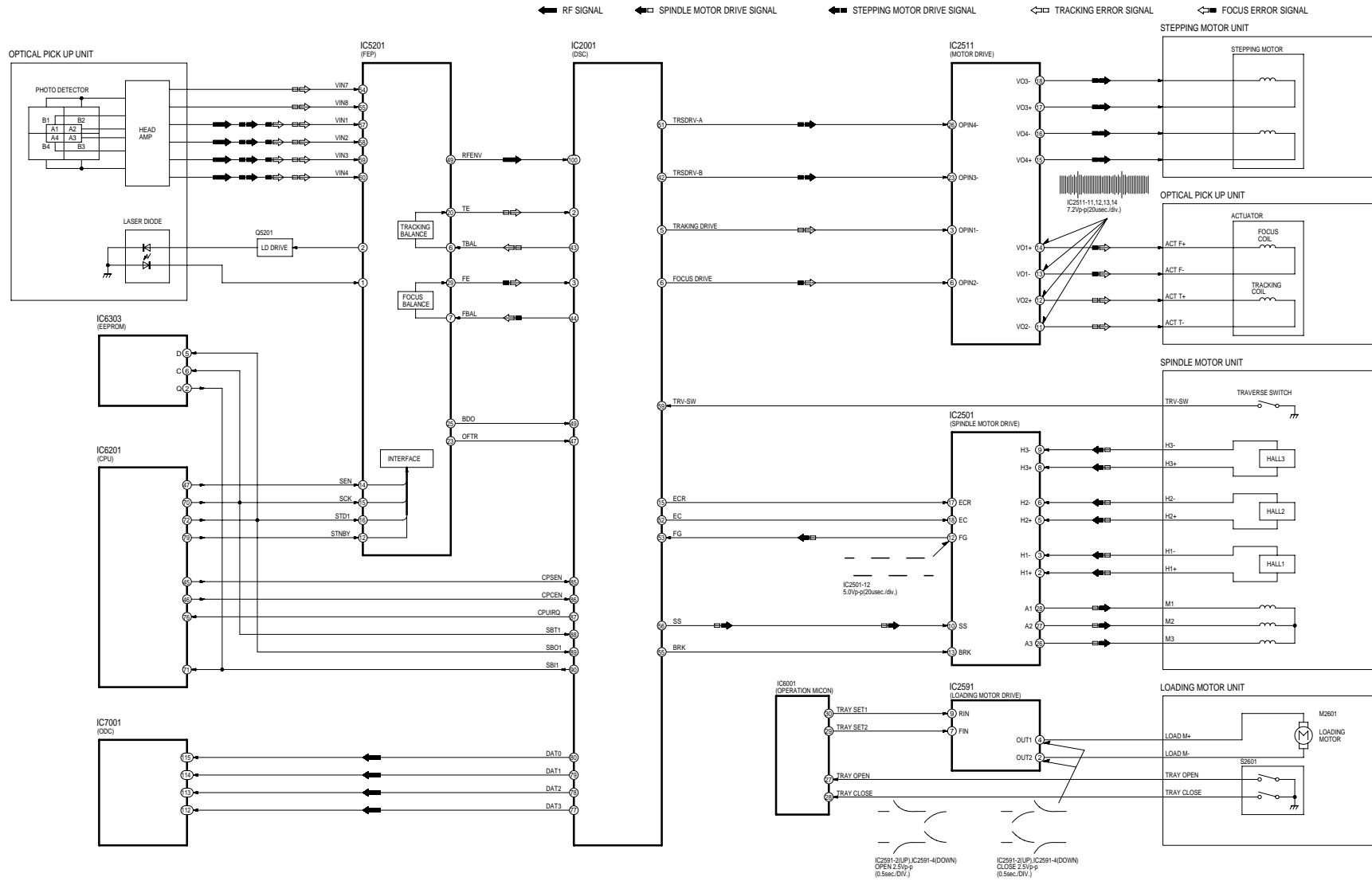


# 15 BLOCK DIAGRAM

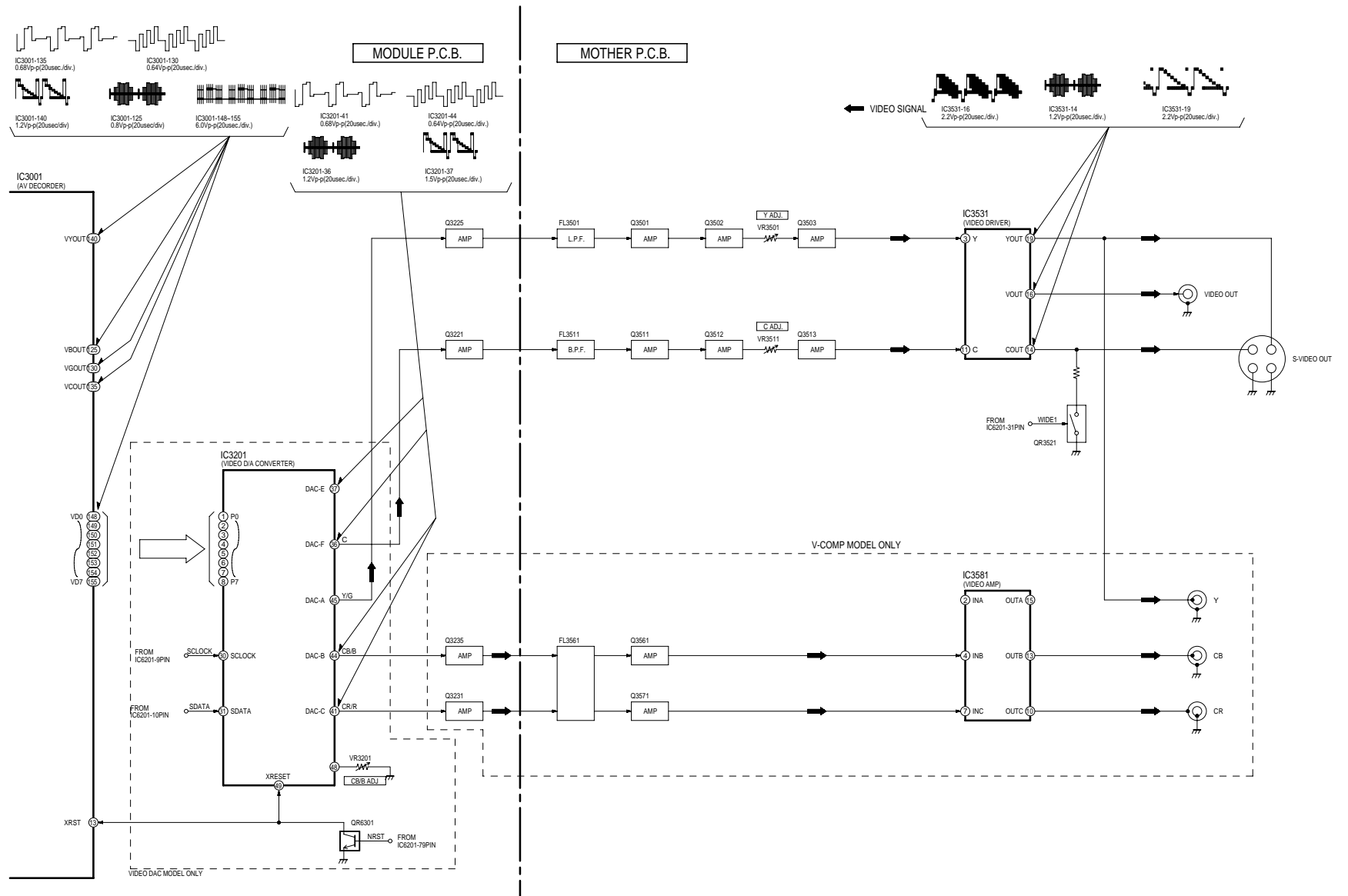
## 15.1. OVERALL BLOCK DIAGRAM



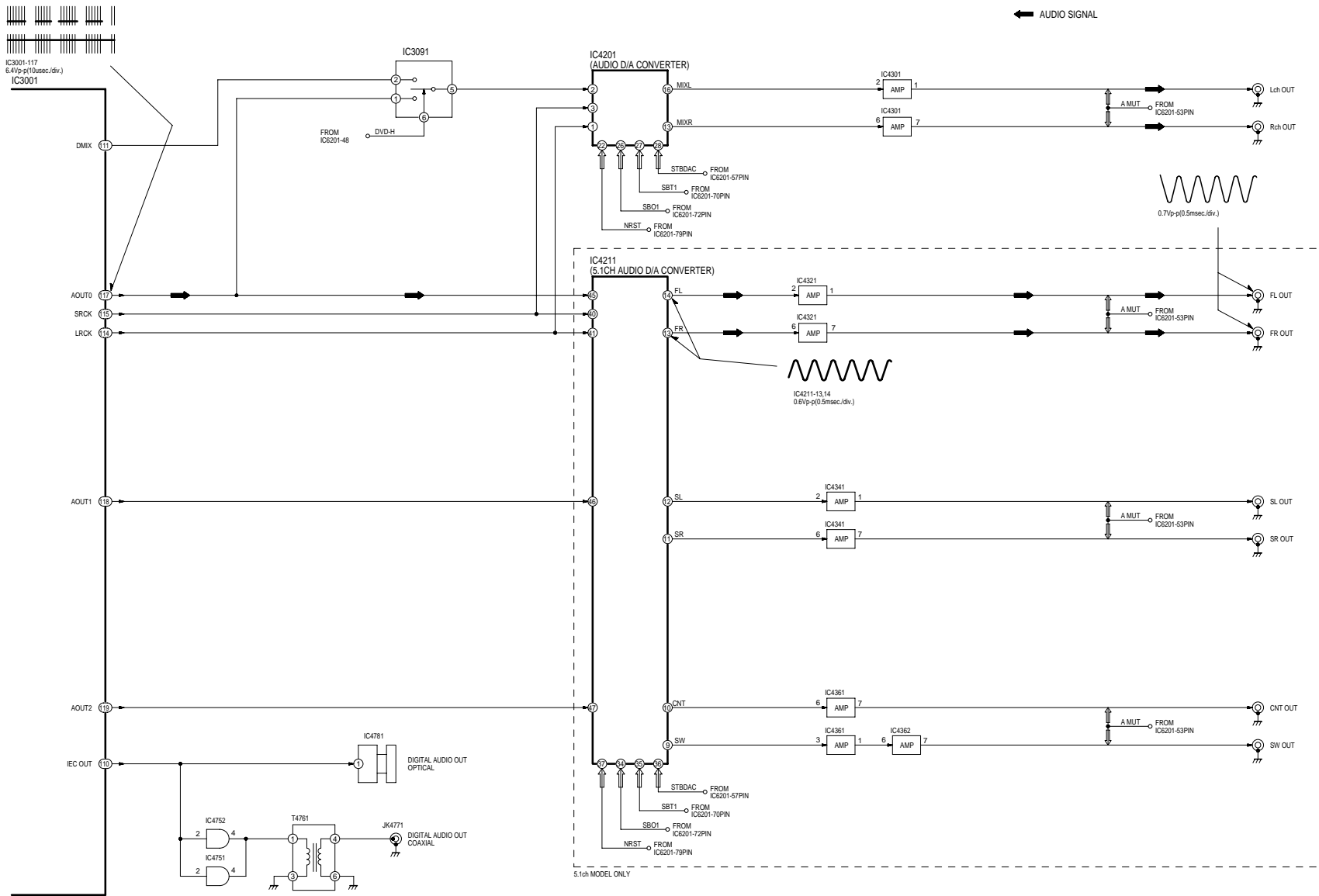
# 15.2. SERVO BLOCK DIAGRAM



### 15.3. VIDEO BLOCK DIAGRAM

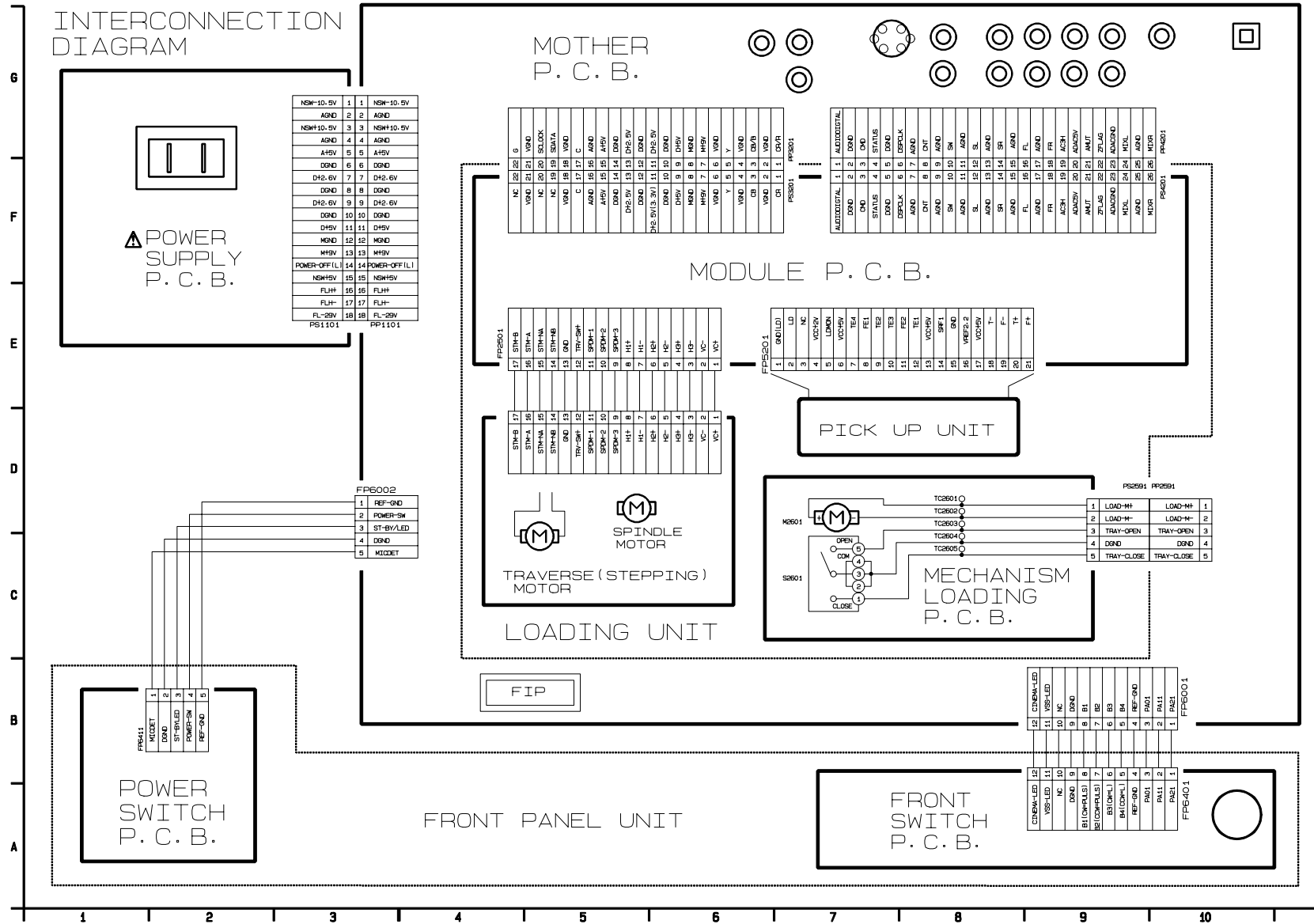


# 15.4. AUDIO BLOCK DIAGRAM

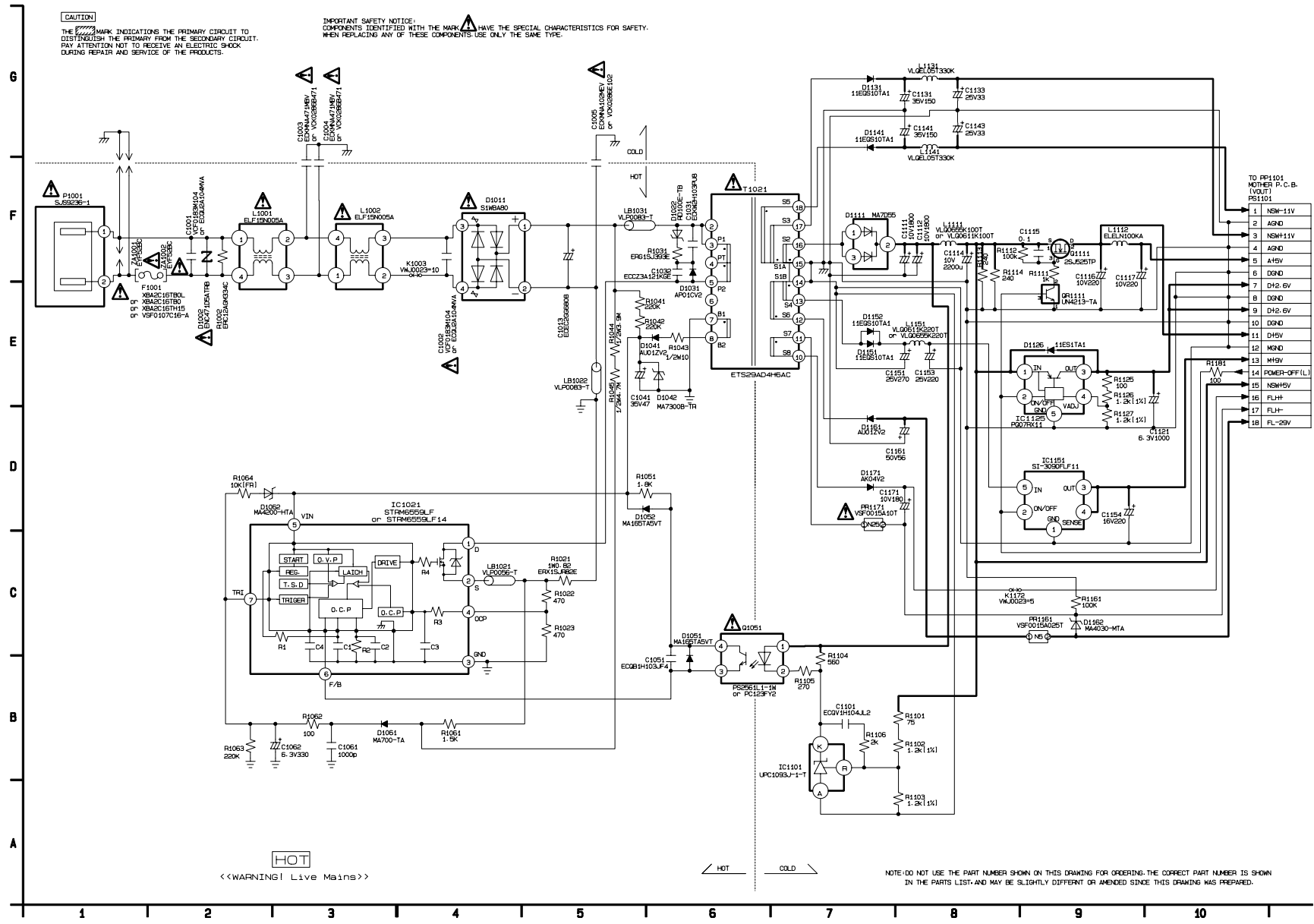


# 16 SCHEMATIC DIAGRAM

## 16.1. INTERCONNECTION SCHEMATIC DIAGRAM



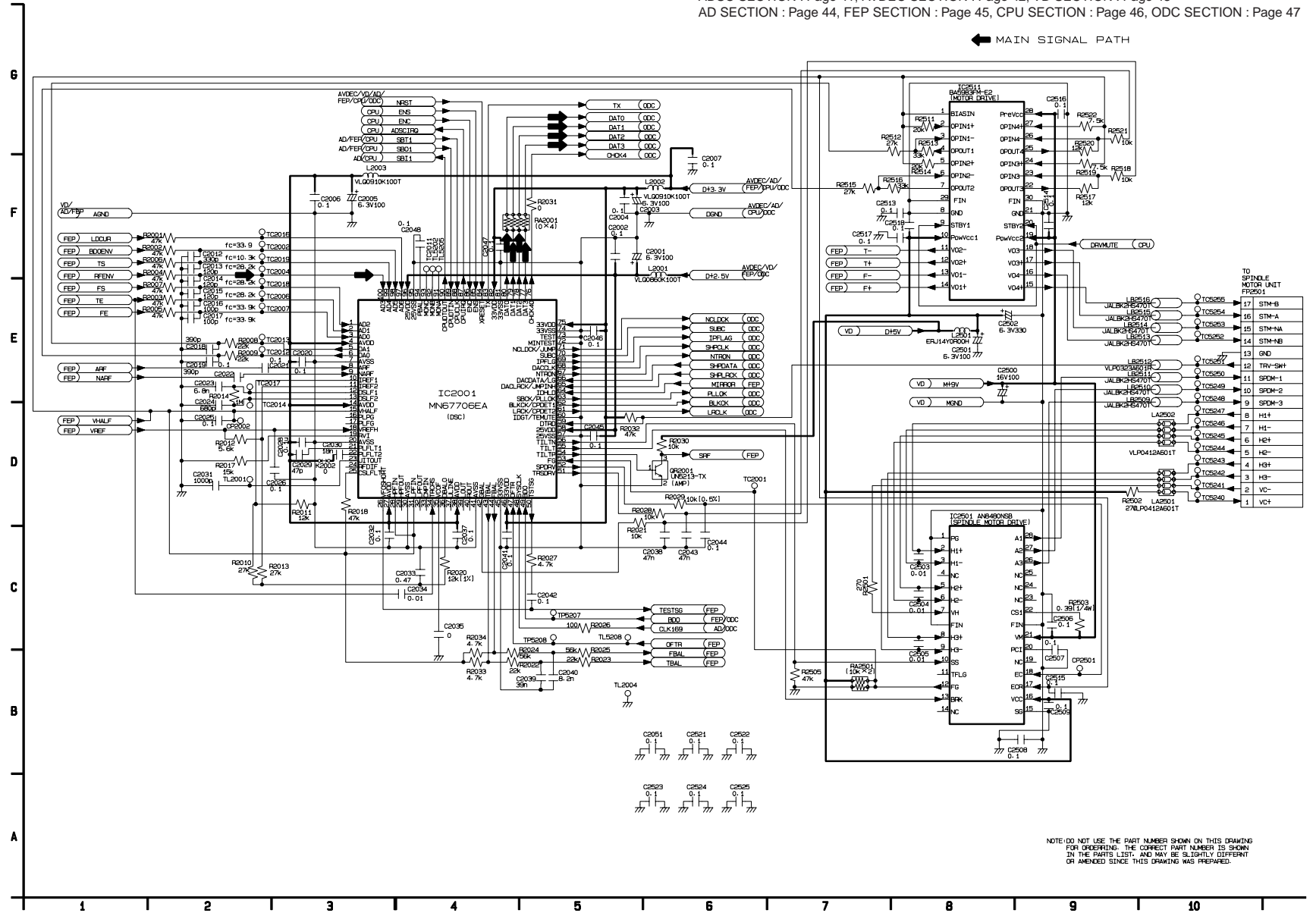
# 16.2. POWER SUPPLY SCHEMATIC DIAGRAM





16.3. ADSC SECTION (MODULE P.C.B. (17)) SCHEMATIC DIAGRAM

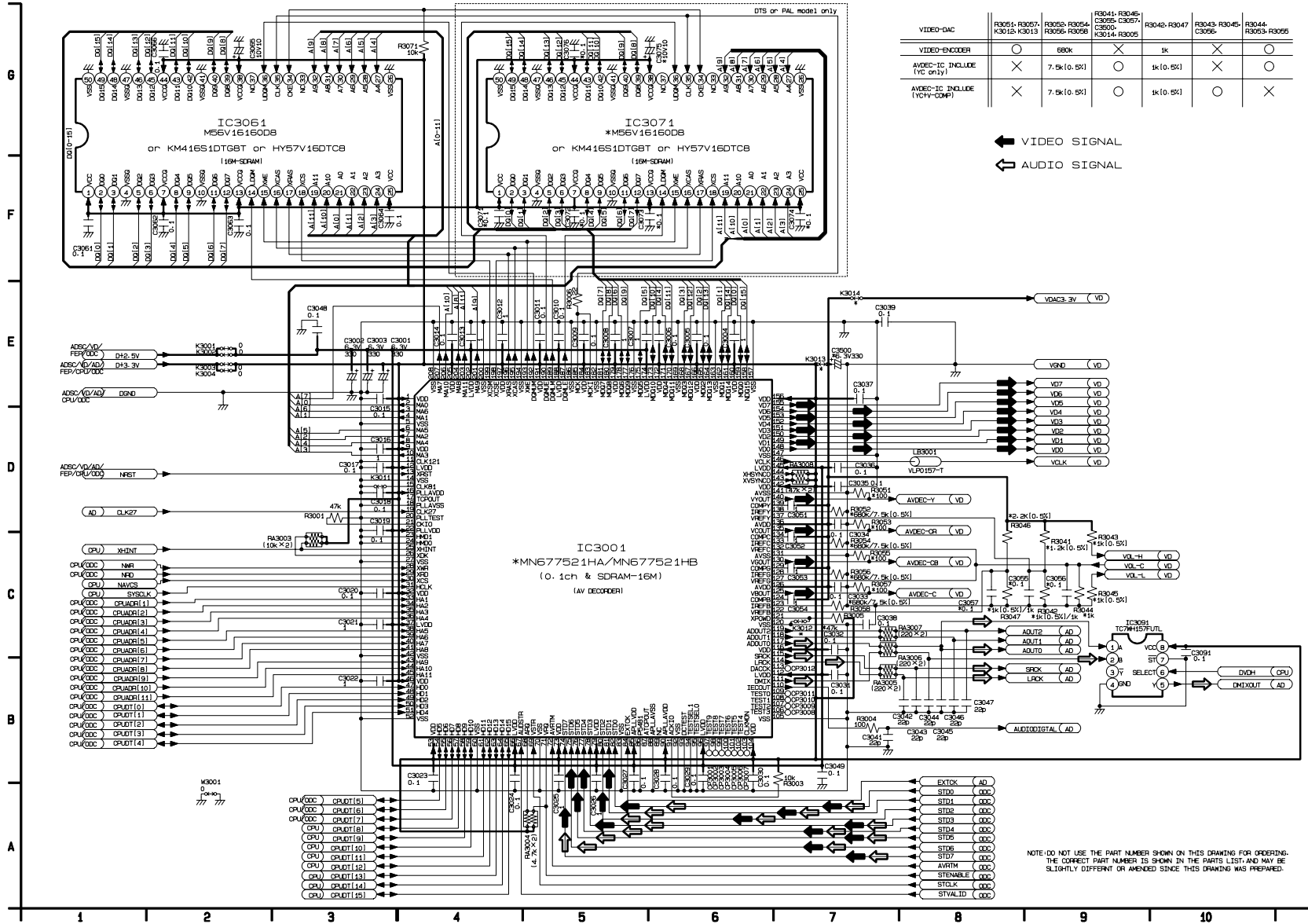
ADSC SECTION : Page 41, AVDEC SECTION : Page 42, VD SECTION : Page 43  
 AD SECTION : Page 44, FEP SECTION : Page 45, CPU SECTION : Page 46, ODC SECTION : Page 47



NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

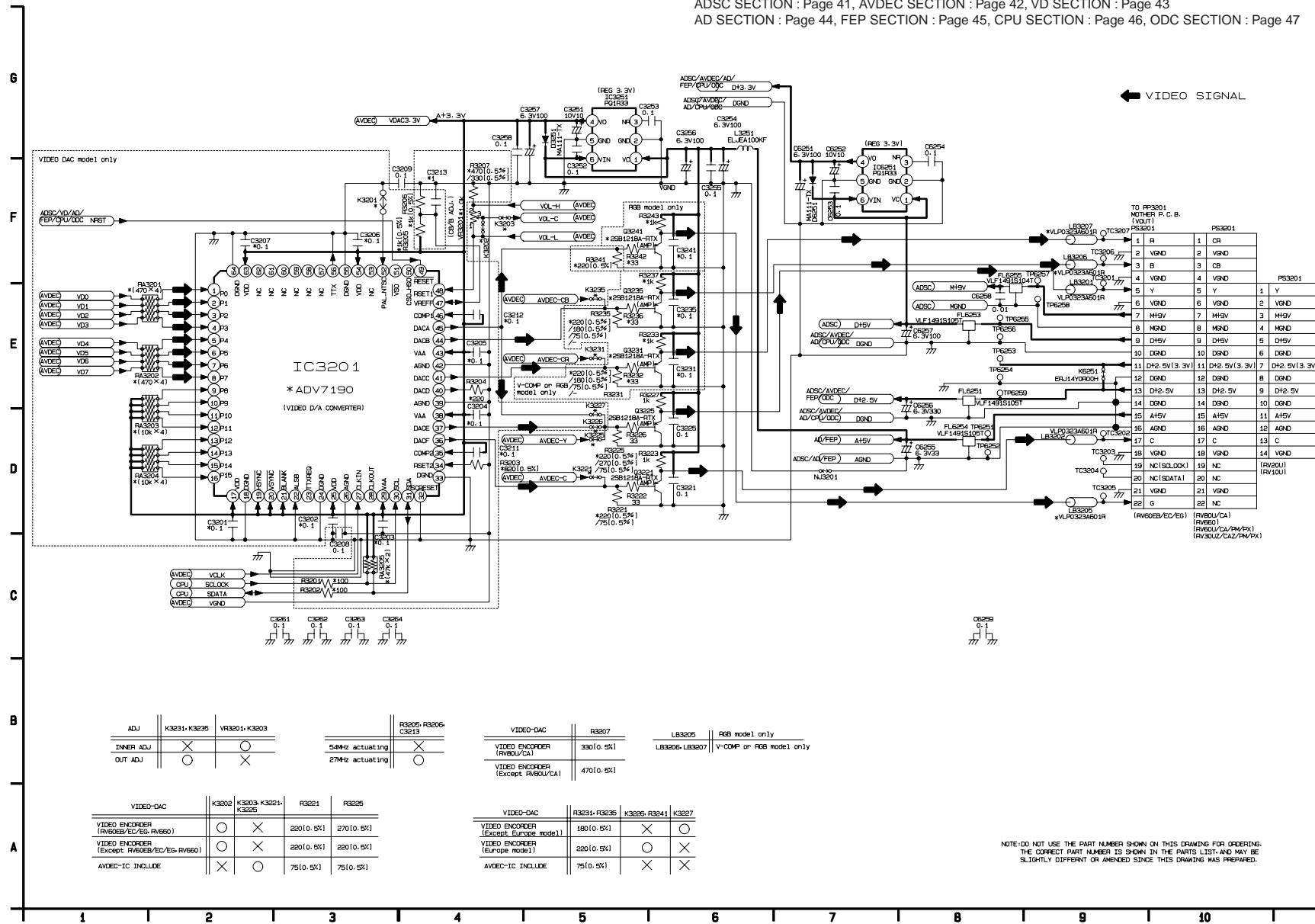
# 16.4. AV DECODER SECTION (MODULE P.C.B. (2/7)) SCHEMATIC DIAGRAM

ADSC SECTION : Page 41, AVDEC SECTION : Page 42, VD SECTION : Page 43  
 AD SECTION : Page 44, FEP SECTION : Page 45, CPU SECTION : Page 46, ODC SECTION : Page 47



# 16.5. VIDEO D/A CONVERTER SECTION (MODULE P.C.B. (3/7)) SCHEMATIC DIAGRAM

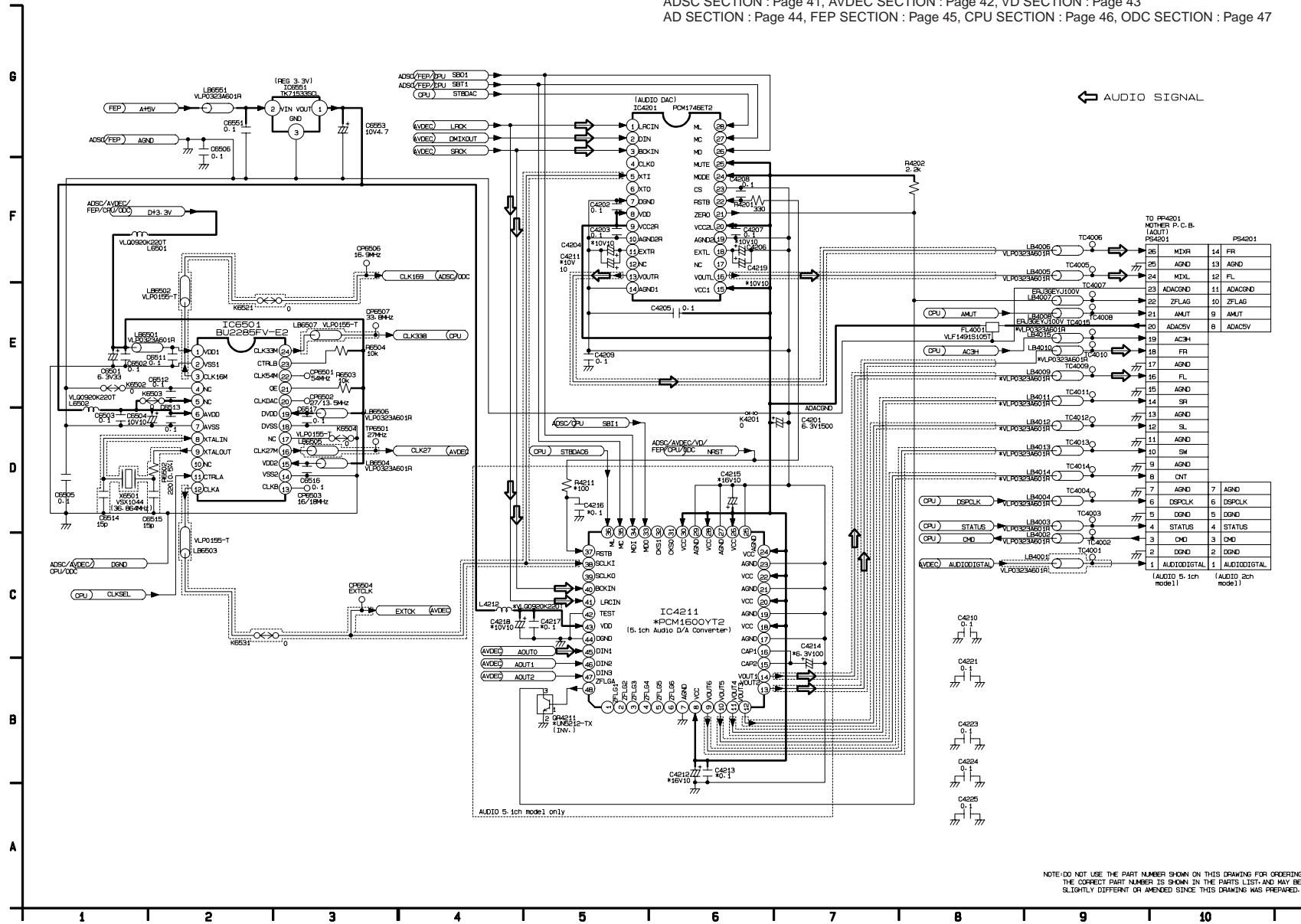
ADSC SECTION : Page 41, AVDEC SECTION : Page 42, VD SECTION : Page 43  
 AD SECTION : Page 44, FEP SECTION : Page 45, CPU SECTION : Page 46, ODC SECTION : Page 47



NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

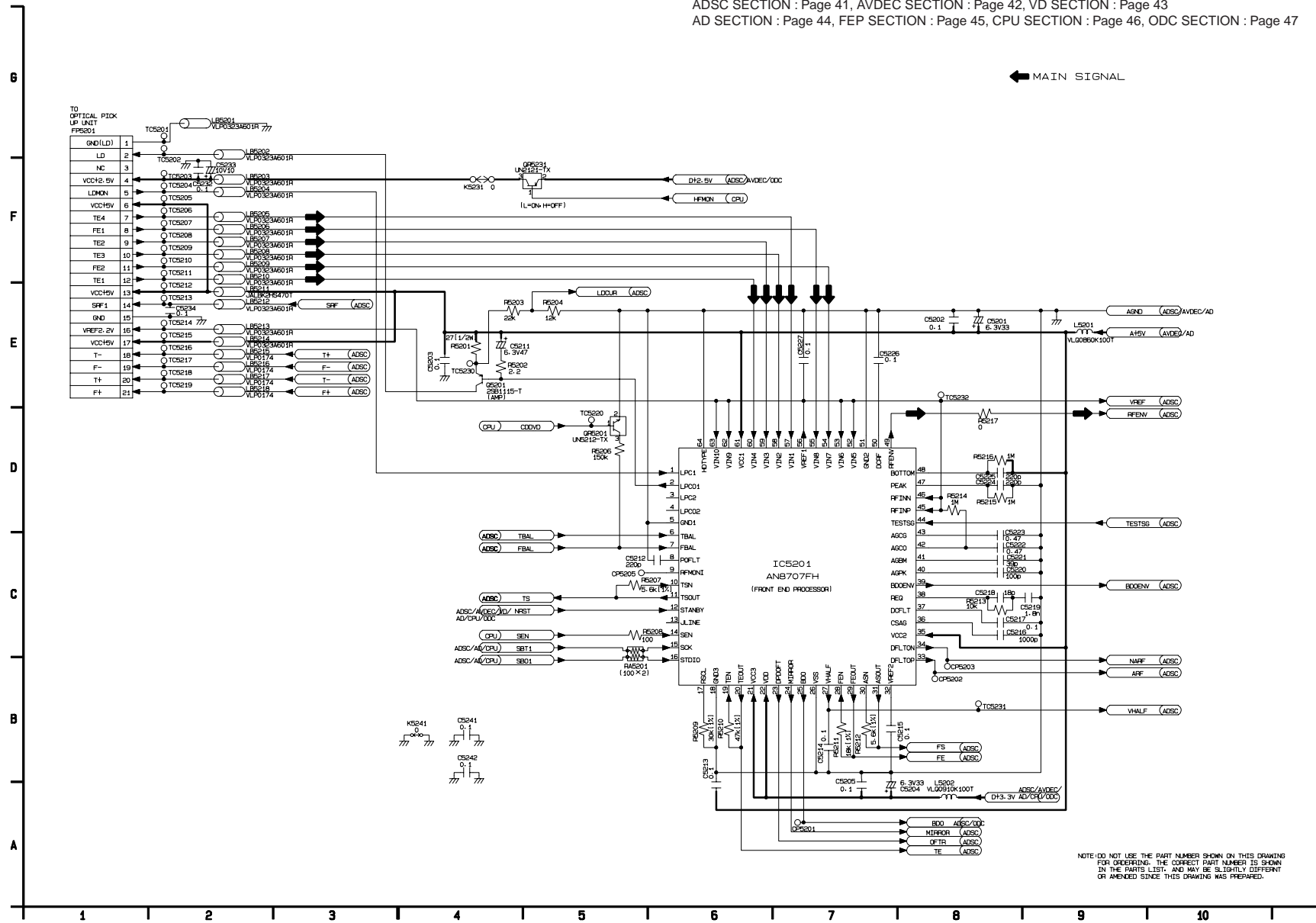
# 16.6. AUDIO SECTION (MODULE P.C.B. (4/7)) SCHEMATIC DIAGRAM

ADSC SECTION : Page 41, AVDEC SECTION : Page 42, VD SECTION : Page 43  
 AD SECTION : Page 44, FEP SECTION : Page 45, CPU SECTION : Page 46, ODC SECTION : Page 47



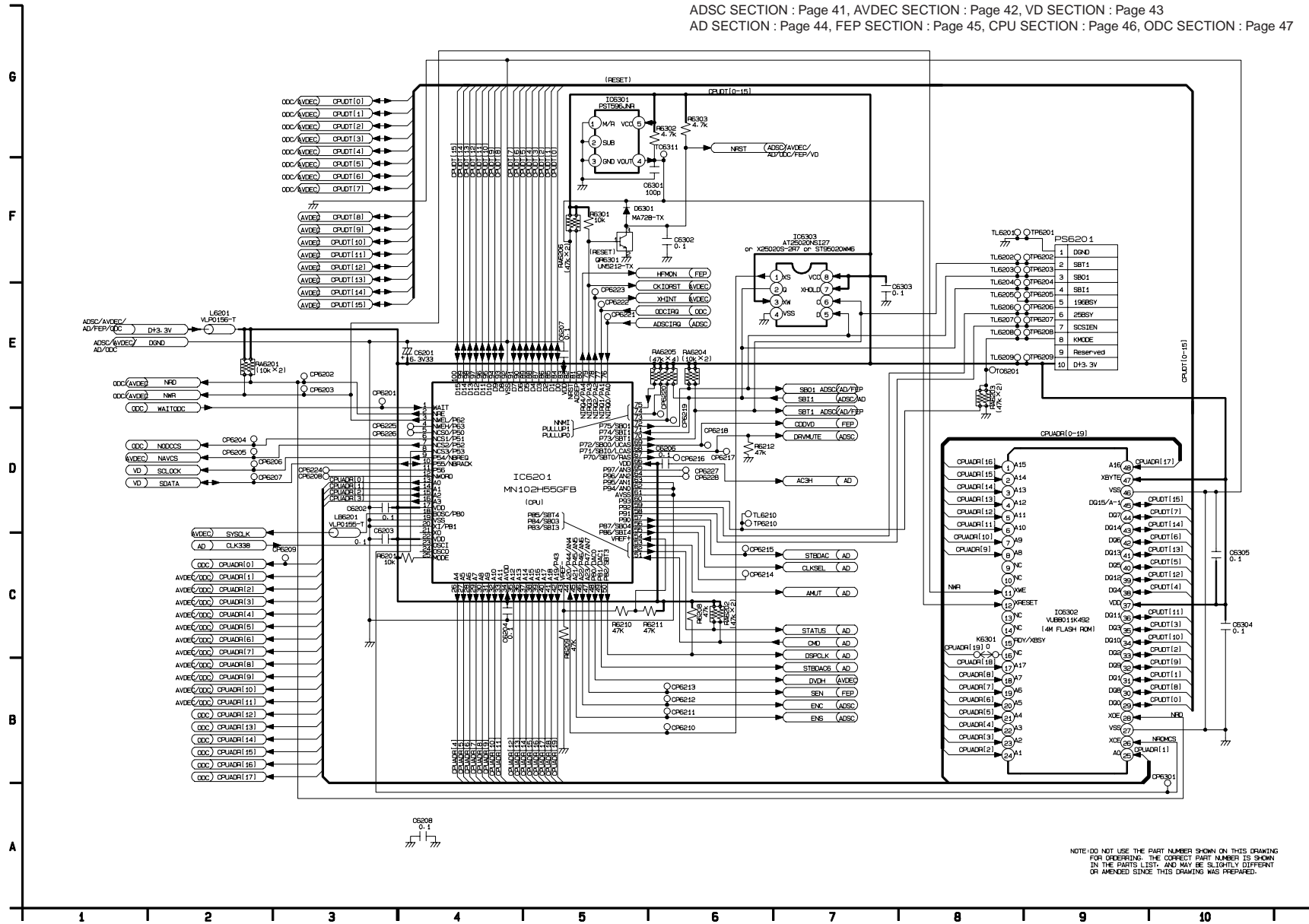
# 16.7. FEP SECTION (MODULE P.C.B. (5/7)) SCHEMATIC DIAGRAM

ADSC SECTION : Page 41, AVDEC SECTION : Page 42, VD SECTION : Page 43  
 AD SECTION : Page 44, FEP SECTION : Page 45, CPU SECTION : Page 46, ODC SECTION : Page 47



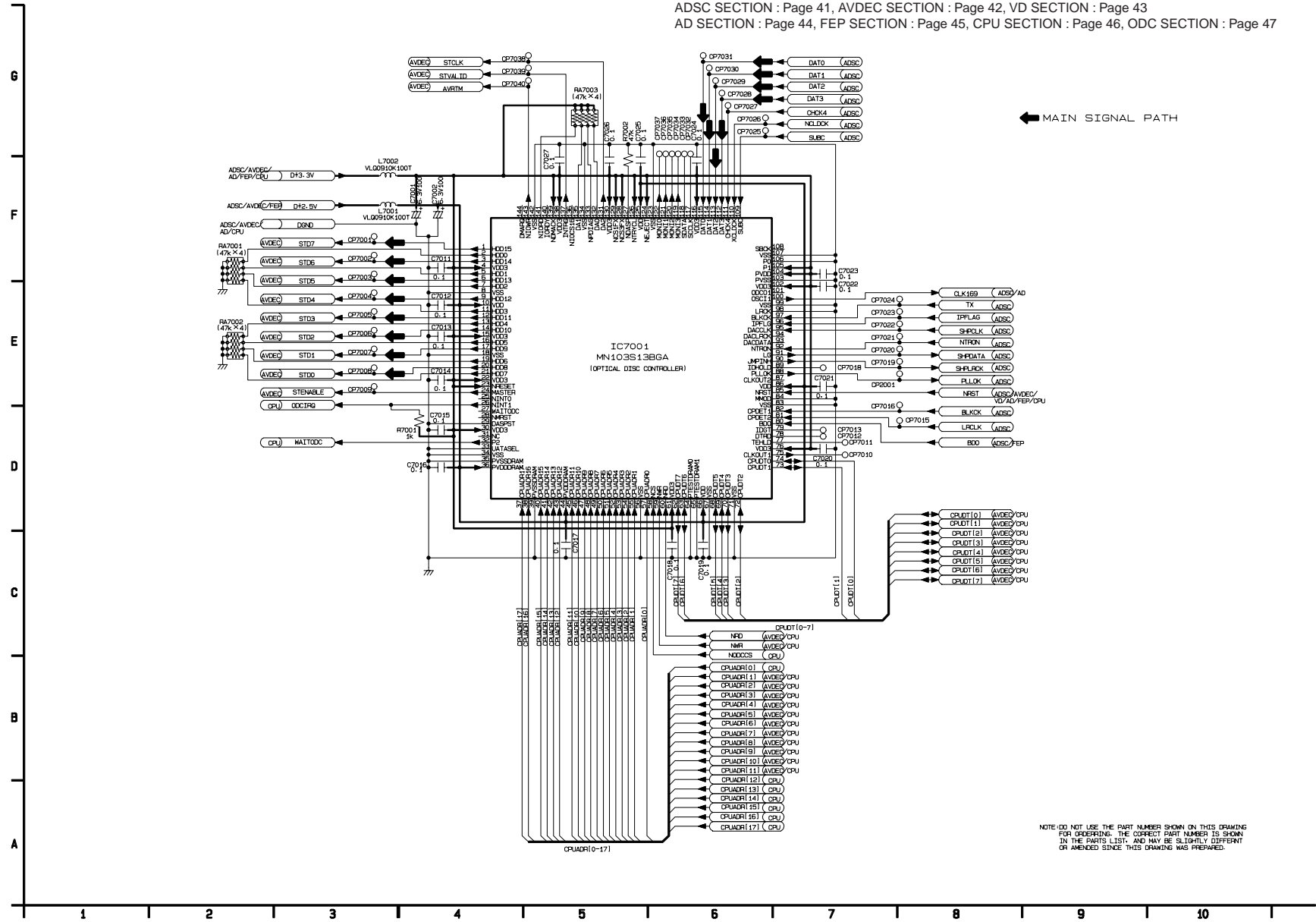
# 16.8. CPU SECTION (MODULE P.C.B. (6/7)) SCHEMATIC DIAGRAM

ADSC SECTION : Page 41, AVDEC SECTION : Page 42, VD SECTION : Page 43  
 AD SECTION : Page 44, FEP SECTION : Page 45, CPU SECTION : Page 46, ODC SECTION : Page 47



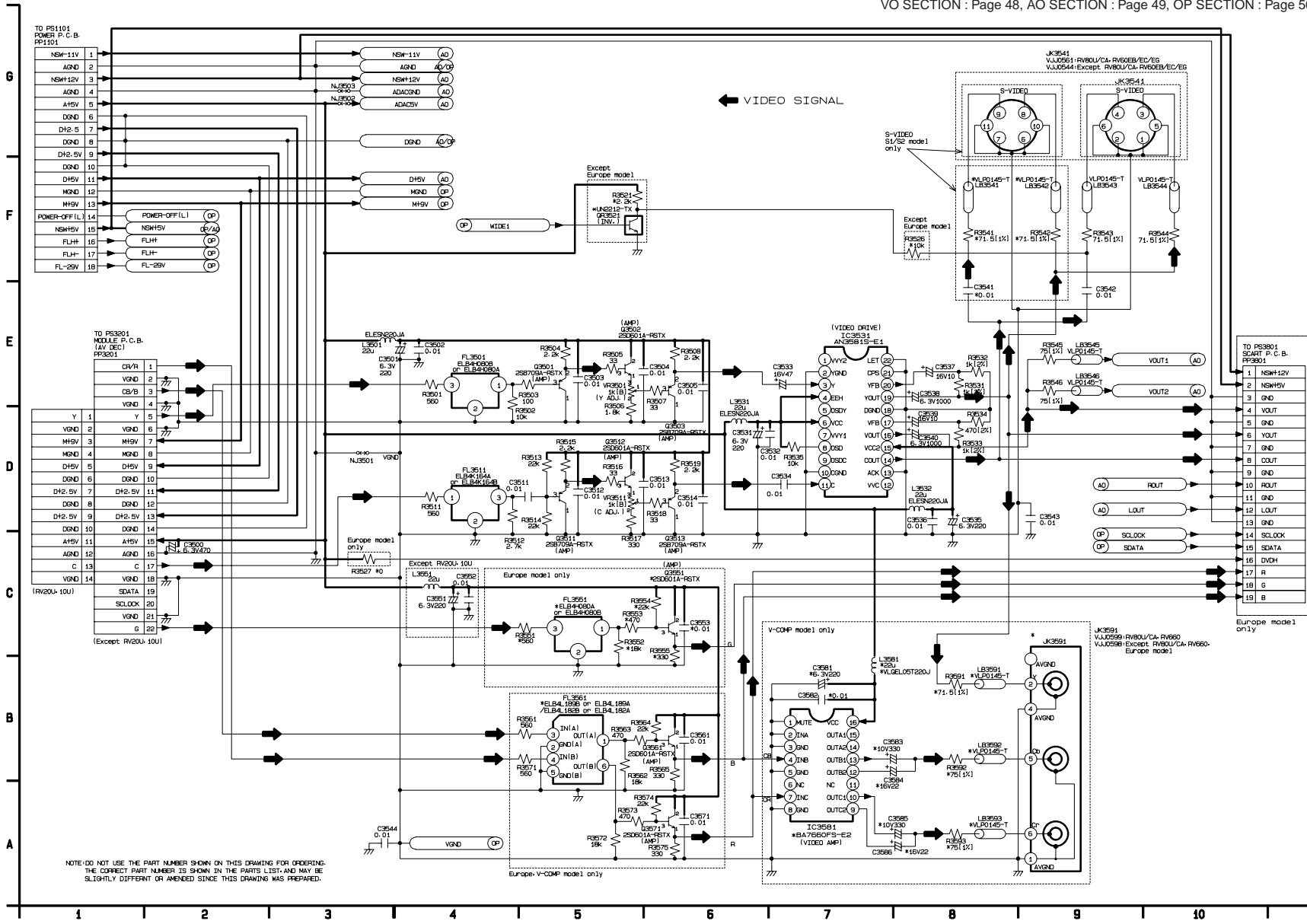
16.9. ODC SECTION (MODULE P.C.B. (77)) SCHEMATIC DIAGRAM

ADSC SECTION : Page 41, AVDEC SECTION : Page 42, VD SECTION : Page 43  
 AD SECTION : Page 44, FEP SECTION : Page 45, CPU SECTION : Page 46, ODC SECTION : Page 47



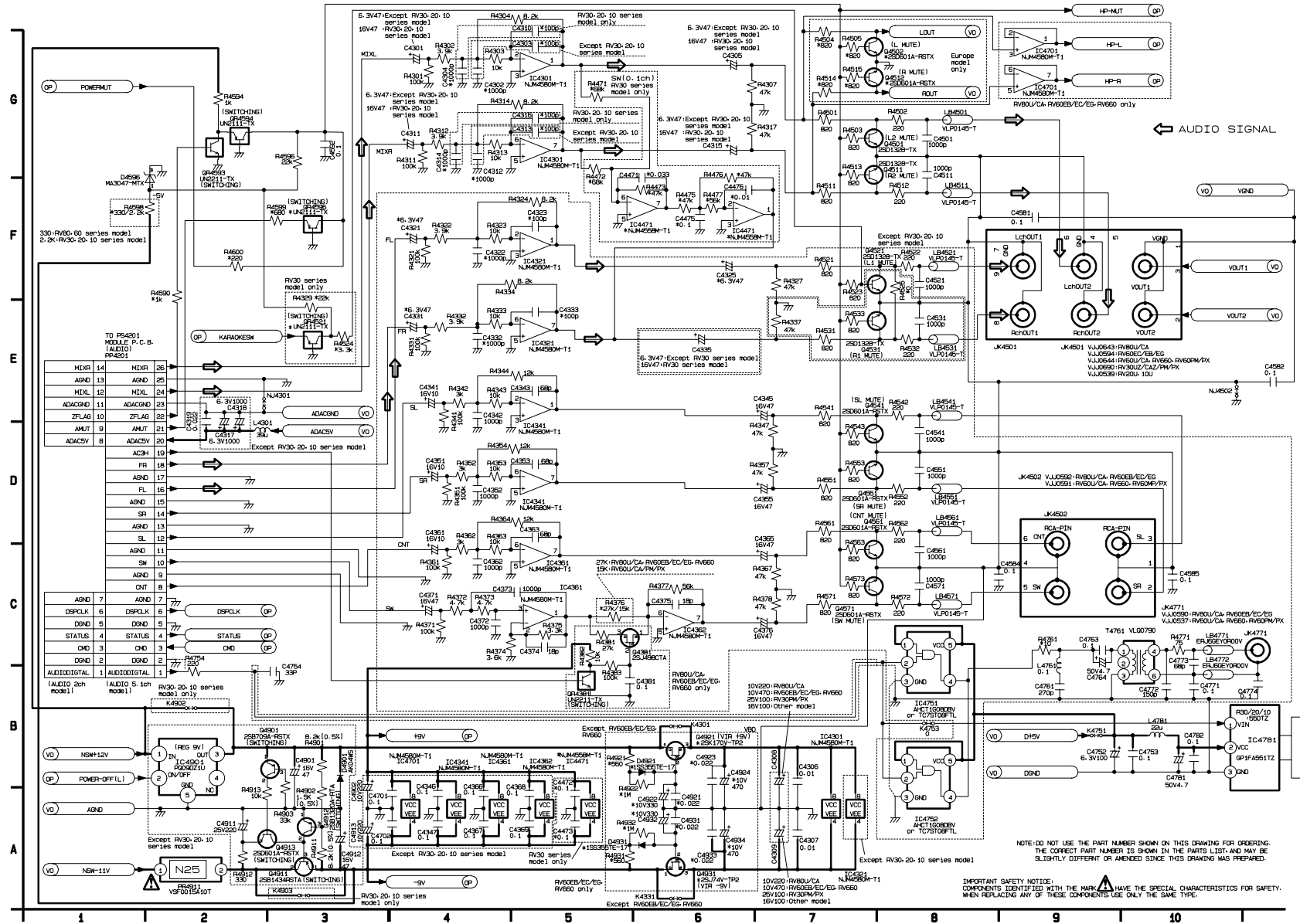
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

# 16.10. VIDEO OUT SECTION (MOTHER P.C.B. (1/3)) SCHEMATIC DIAGRAM

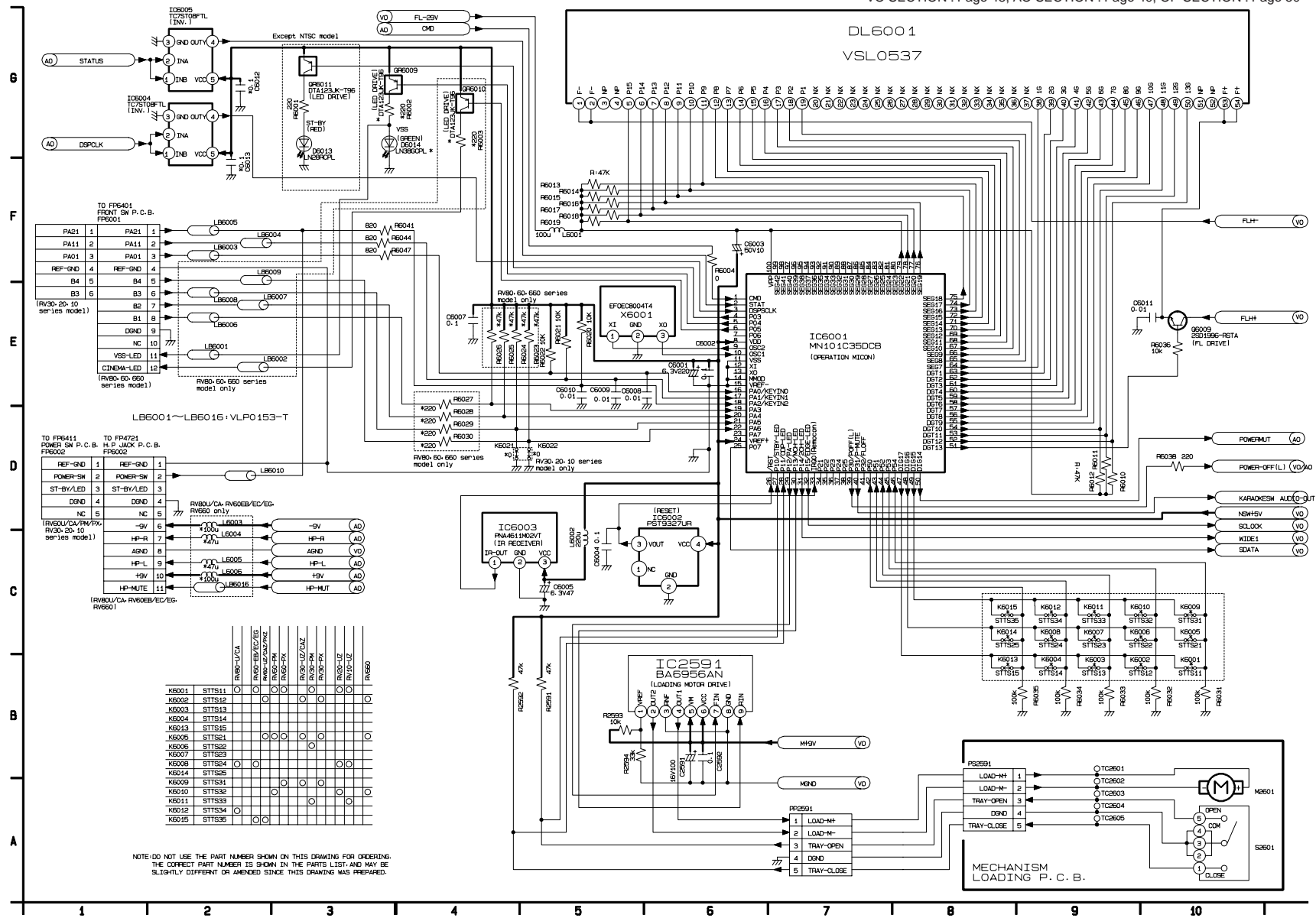




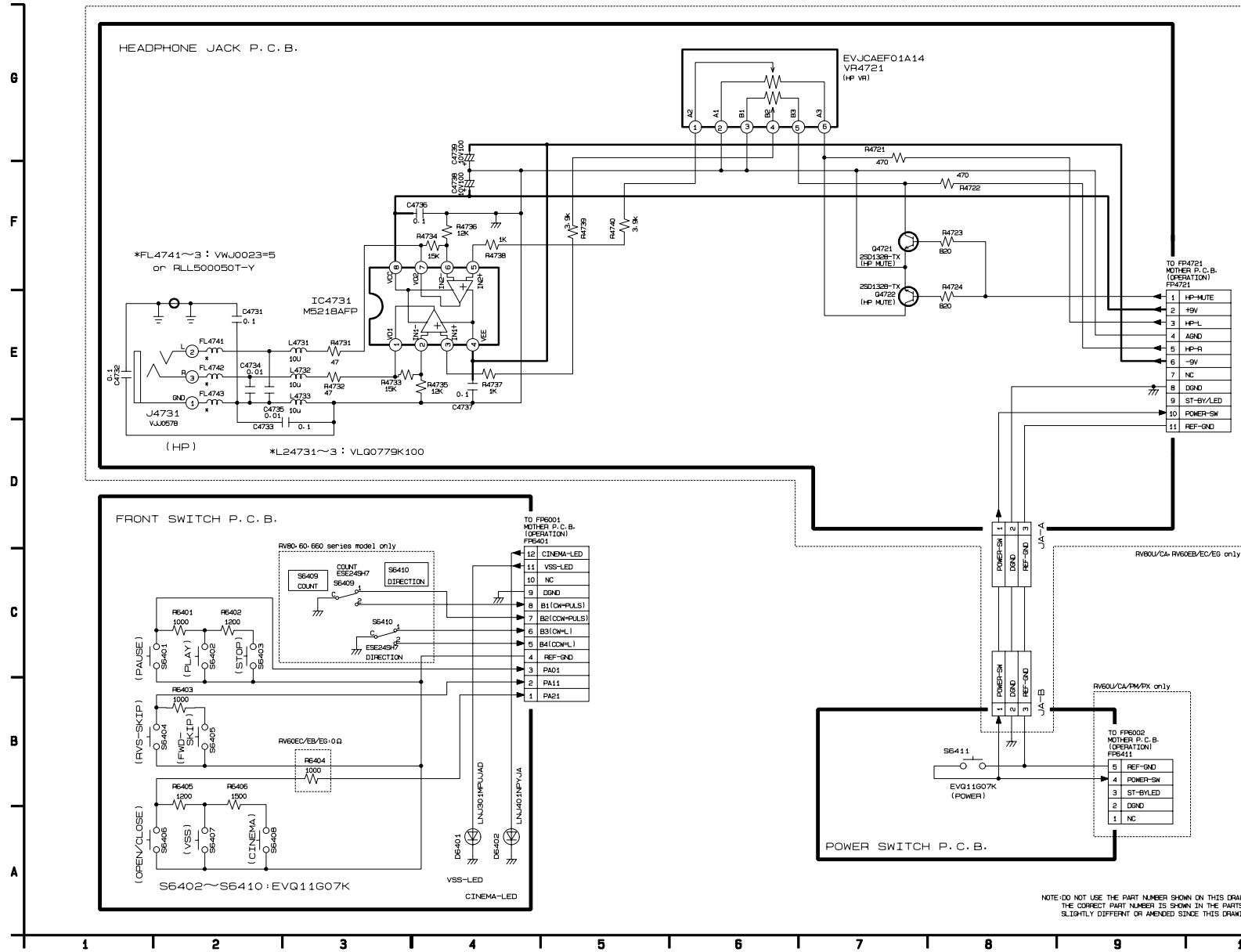
16.11. AUDIO OUT SECTION (MOTHER P.C.B. (2/3)) SCHEMATIC DIAGRAM



16.12. OPERATION SECTION (MOTHER P.C.B. (3/3)) SCHEMATIC DIAGRAM



# 16.13. FRONT SWITCH AND POWER SWITCH SCHEMATIC DIAGRAM



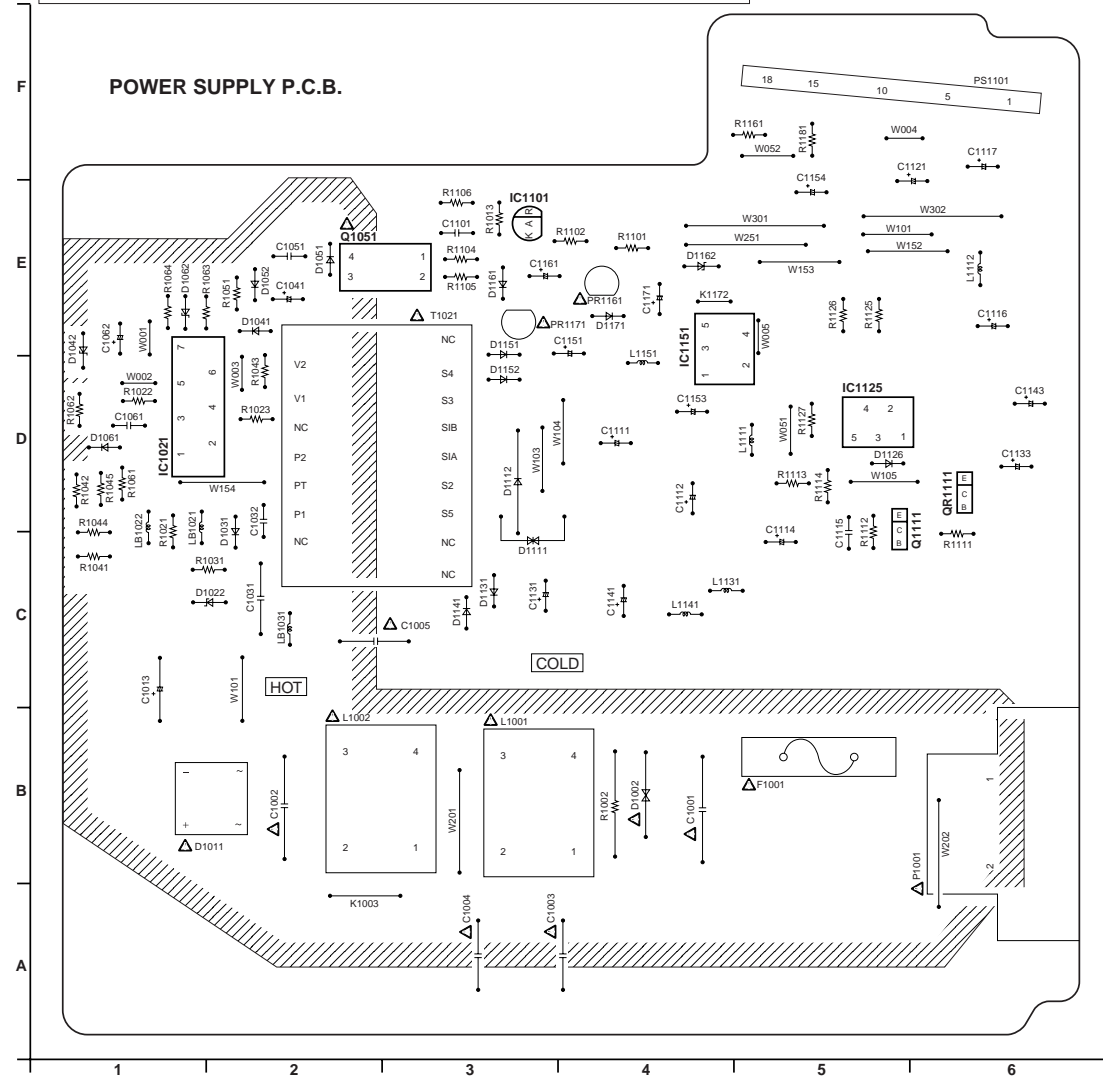
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.



# 17 PRINTED CIRCUIT BOARD DIAGRAM

## 17.1. POWER SUPPLY P.C.B.

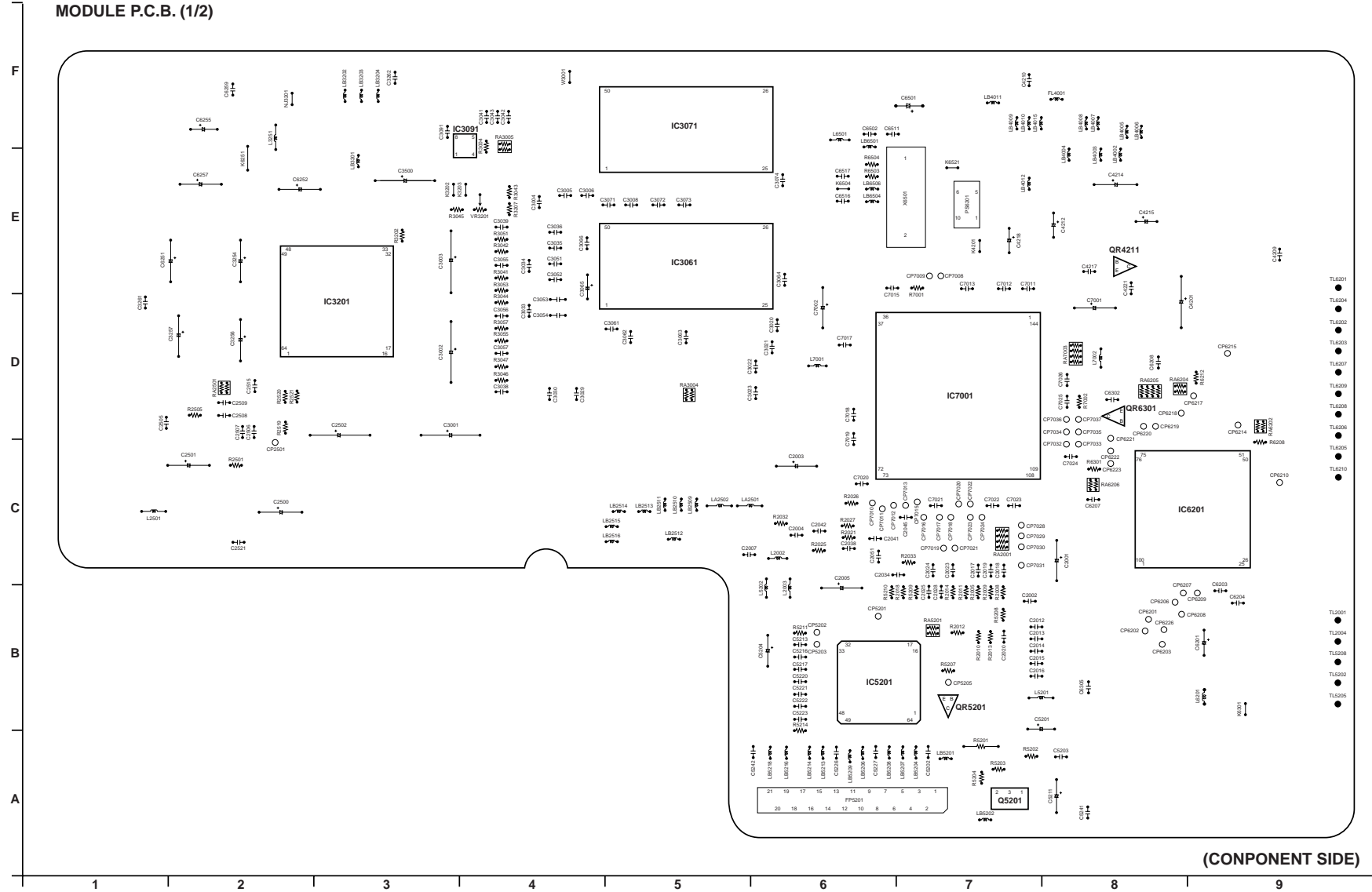
**CAUTION** THE STRIPED FRAME INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT. PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.



POWER SUPPLY P.C.B.			
Transistors		Integrated Circuits	
Q1051	E-2	IC1021	D-1
Q1111	D-6	IC1101	E-3
Transistor-resistors		IC1125	D-5
QR1111	D-7	IC1151	E-4
Connectors			
P1001	B-6	PS1101	F-6

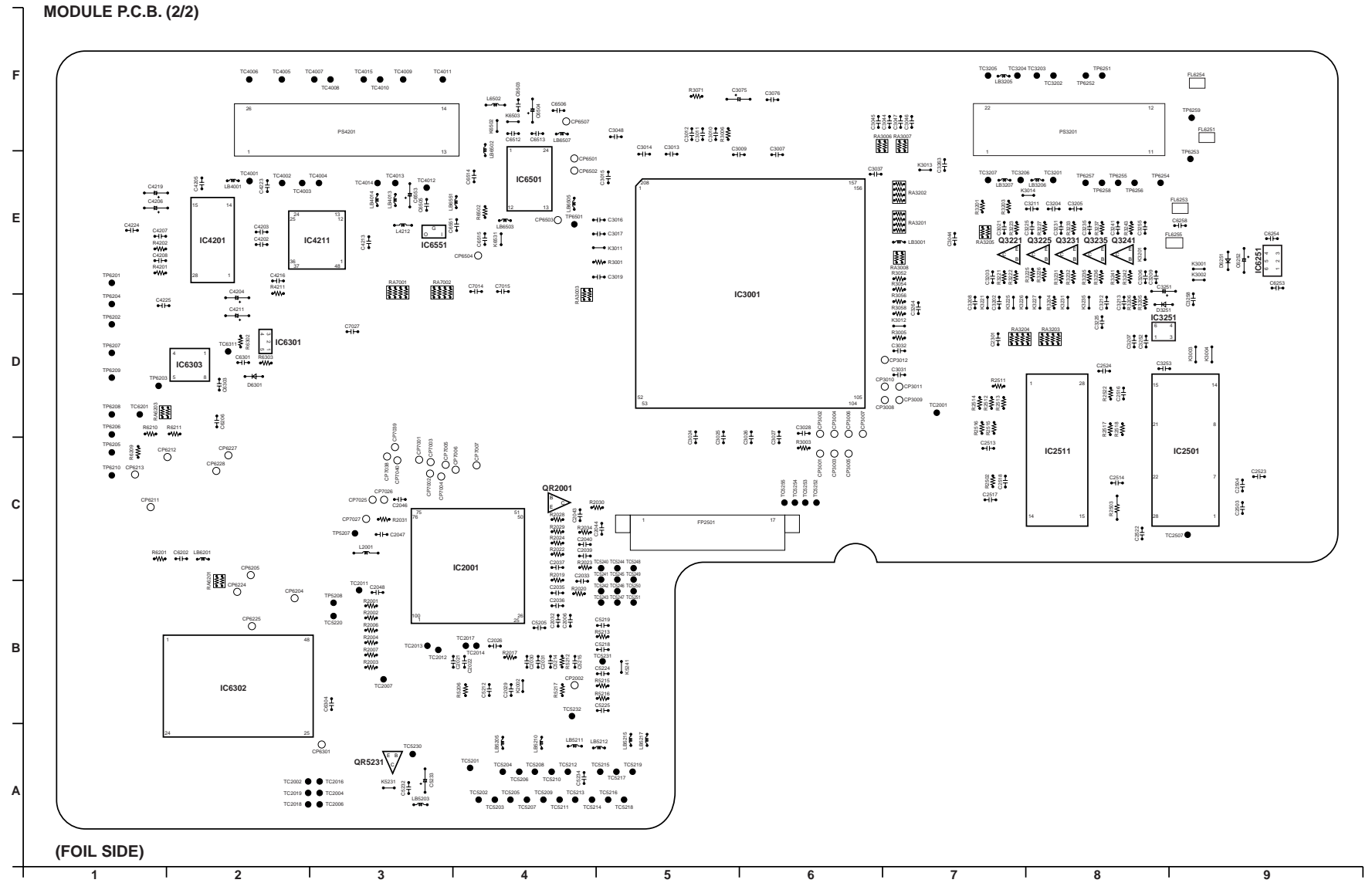
ADDRESS INFORMATION

MODULE P.C.B. (1/2)



(COMPONENT SIDE)

# 17.3. MODULE P.C.B. (2/2) (FOIL SIDE)



## 17.4. MODULE P.C.B. AND MOTHER P.C.B. ADDRESS INFORMATION

MODULE P.C.B.									
<b>Transistors</b>		IC3201	D-3	C	TP6207	D-1	F		
Q3221	E-7	F	IC3251	D-8	F	TP6208	D-1	F	
Q3225	E-8	F	IC4201	E-2	F	TP6209	D-1	F	
Q3231	E-8	F	IC4211	E-3	F	TP6210	C-1	F	
Q3235	E-8	F	IC5201	B-6	C	TP6251	F-8	F	
Q3241	E-8	F	IC6201	C-8	C	TP6252	F-8	F	
Q5201	A-7	C	IC6251	E-9	F	TP6253	F-9	F	
<b>Transistor-resistors</b>		IC6301	D-2	F	TP6254	E-8	F		
QR2001	C-4	F	IC6302	D-2	F	TP6255	E-8	F	
QR4211	E-8	C	IC6303	D-2	F	TP6256	E-8	F	
QR5201	B-7	C	IC6501	E-4	F	TP6257	E-8	F	
QR5231	A-3	F	IC6551	E-3	F	TP6258	E-8	F	
QR6301	D-8	C	IC7001	D-7	C	TP6259	F-9	F	
<b>Integrated Circuits</b>		<b>Test Points</b>		<b>Adjustments</b>					
IC2001	C-4	F	TP5207	C-3	F	VR3201	E-4	C	
IC2501	C-9	F	TP5208	B-3	F				
IC2511	C-8	F	TP6201	E-1	F				
IC3001	E-6	F	TP6202	D-1	F				
IC3061	E-5	C	TP6203	D-1	F	FP2501	C-5	F	
IC3071	F-5	C	TP6204	D-1	F	PS3201	F-8	F	
IC3081	E-4	C	TP6205	C-1	F	PS4201	F-3	F	
IC3091	F-4	C	TP6206	D-1	F	PS6201	E-7	C	

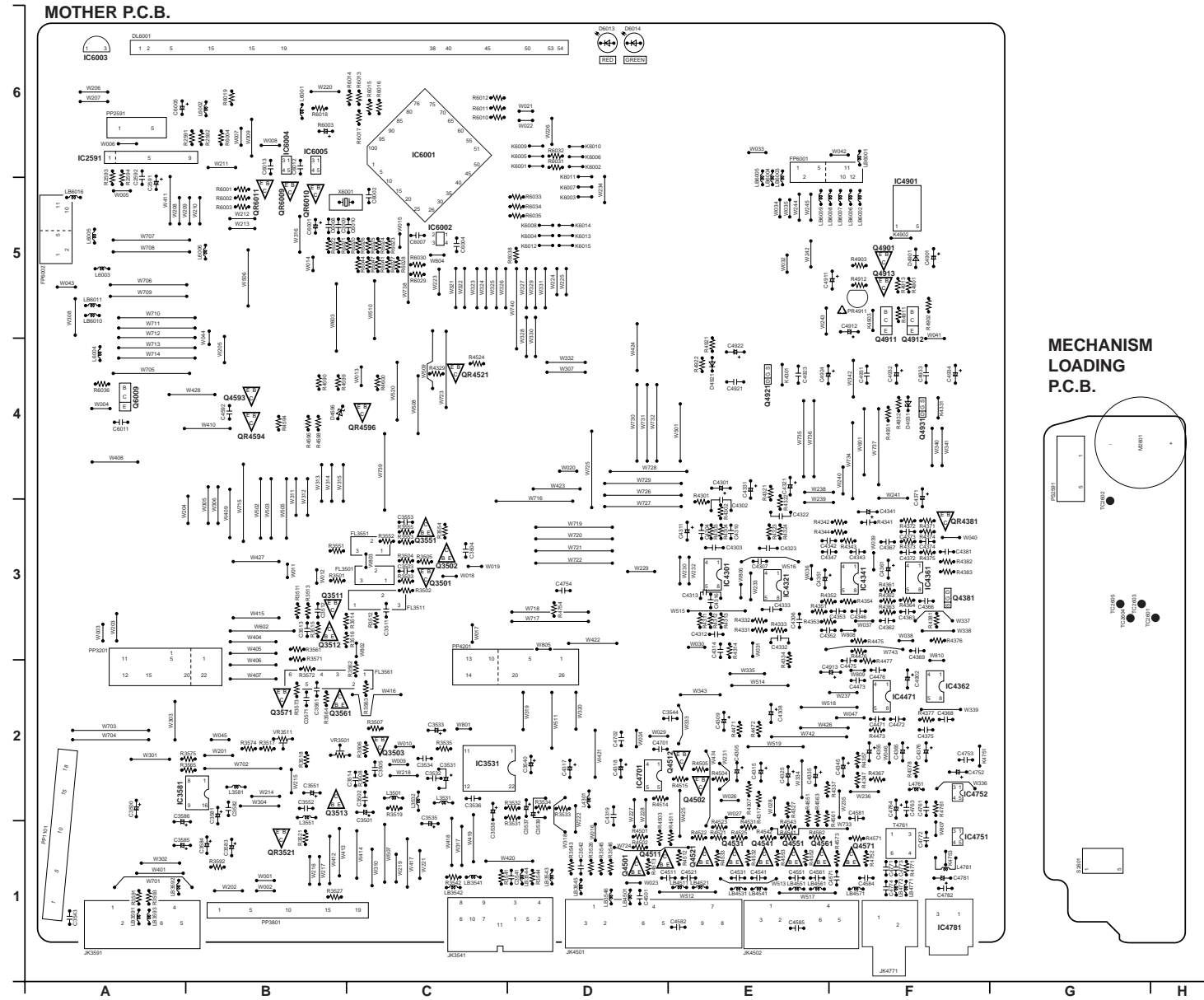
ADDRESS INFORMATION  
 C ... COMPONENT SIDE  
 F ... FOIL SIDE

MOTHER P.C.B.									
<b>Transistors</b>		Q4911	F-4	IC4341	F-3	PP3201	A-3		
Q3501	C-3	Q4912	F-4	IC4361	F-3	PP3801	B-1		
Q3502	C-3	Q4913	F-5	IC4362	F-2	PP4201	C-3		
Q3503	C-2	Q4921	E-4	IC4471	F-2	JK3541	C-1		
Q3511	B-3	Q4931	F-4	IC4701	D-2	JK3591	A-1		
Q3512	B-3	Q5421	E-1	IC4751	F-1	JK4501	D-1		
Q3531	B-2	Q6009	A-4	IC4752	F-2	JK4502	E-1		
Q3551	C-3	<b>Transistor-resistors</b>		IC4781	F-1	JK4771	F-1		
Q3561	B-2	QR3521	B-1	IC4901	F-5				
Q3571	B-2	QR4361	F-3	IC8001	C-6				
Q4381	F-3	QR4521	C-4	IC8002	C-5				
Q4501	D-1	QR4594	B-4	IC8003	A-6				
Q4502	E-2	QR4596	C-4	IC6004	B-6				
Q4511	D-1	QR6009	B-5	IC6005	B-6				
Q4512	E-2	QR6010	B-5	<b>Adjustments</b>					
Q4531	E-1	QR6011	B-5	VR3501	B-2				
Q4541	E-1	<b>Integrated Circuits</b>		VR3511	B-2				
Q4551	E-1	IC2591	A-6	<b>Connectors</b>					
Q4561	E-1	IC3531	C-2	FP6001	E-6				
Q4571	F-1	IC3581	A-2	FP6002	A-5				
Q4593	B-4	IC4301	E-3	PP1101	A-1				
Q4901	F-5	IC4321	E-3	PP2591	A-6				

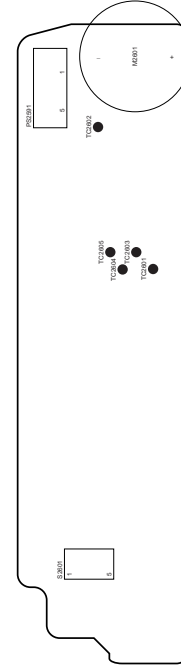
ADDRESS INFORMATION



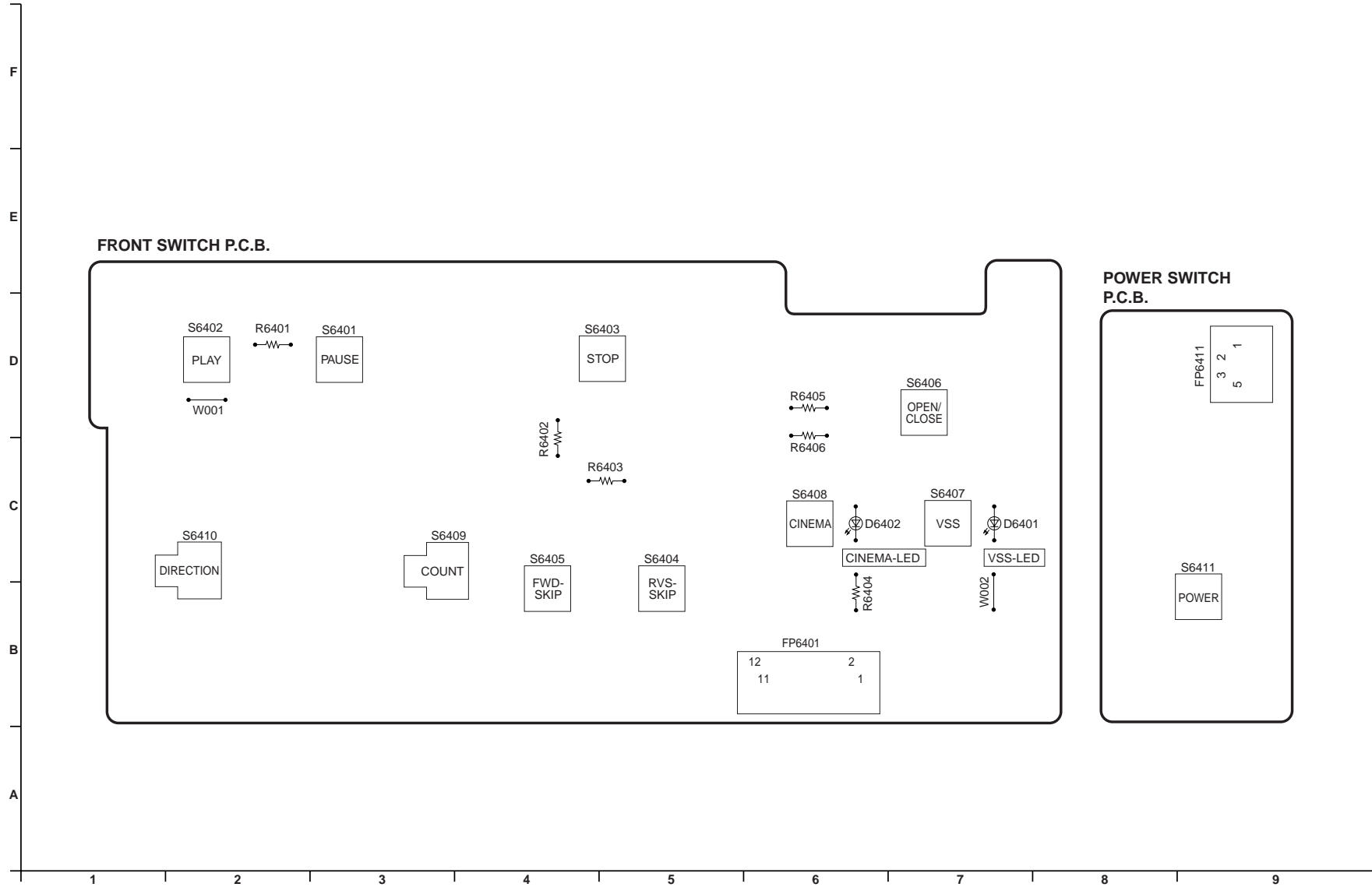
# 17.5. MOTHER P.C.B.



## MECHANISM LOADING P.C.B.

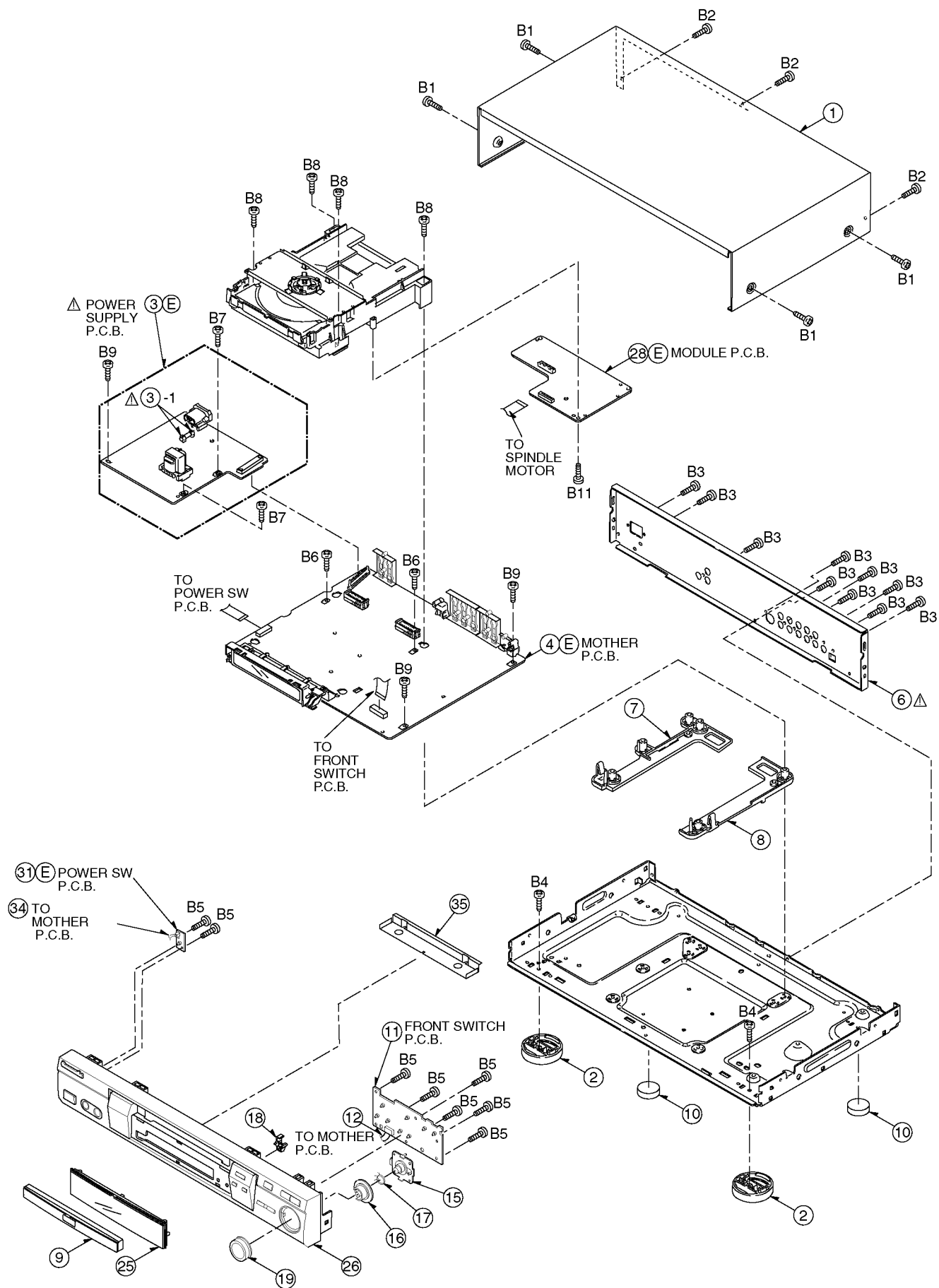


17.6. FRONT SWITCH P.C.B. AND POWER SWITCH P.C.B.



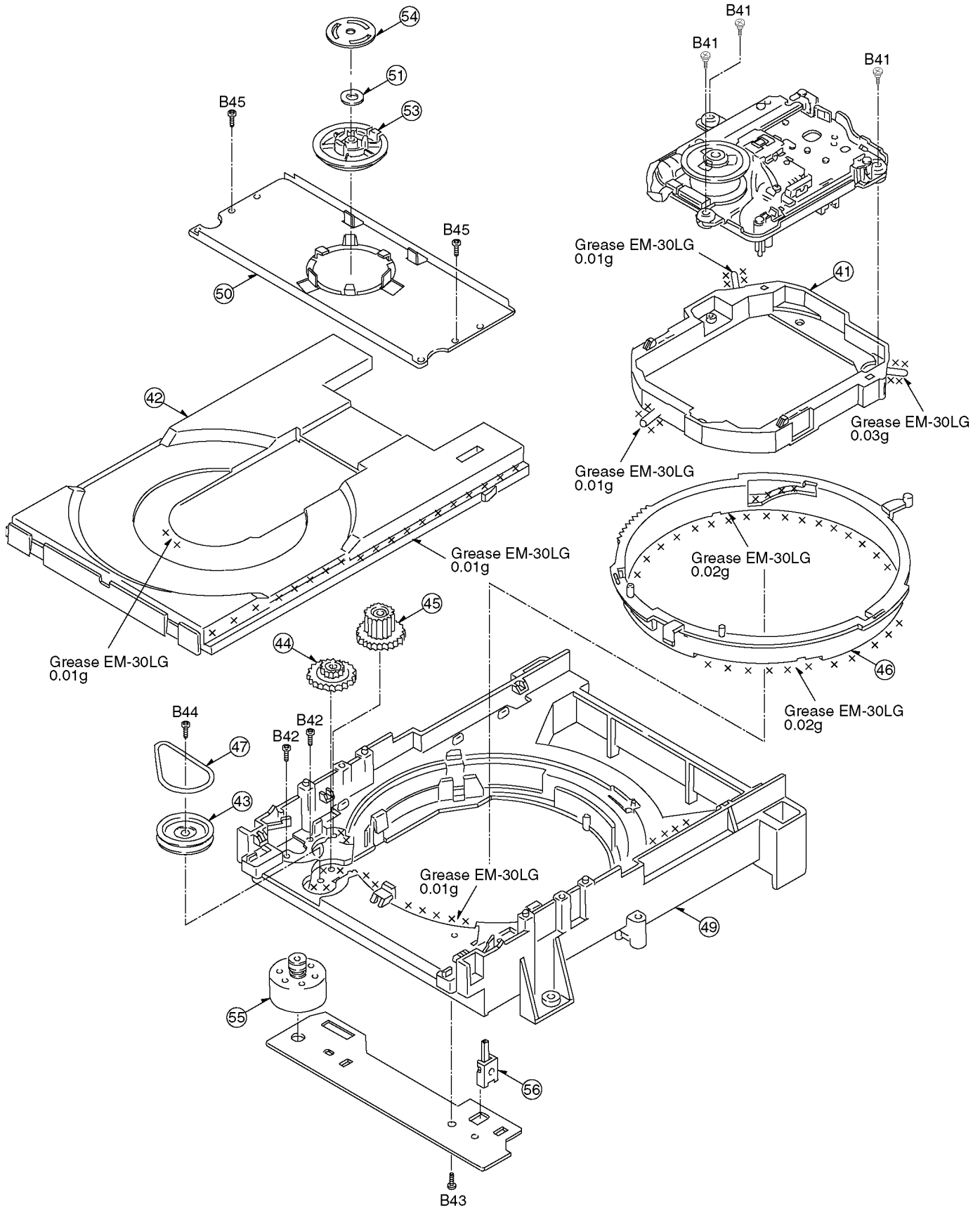
# 18 EXPLODED VIEWS

## 18.1. Casing Parts & Mechanism Section Exploded View



## 18.2. Loading Mechanism Section Exploded View

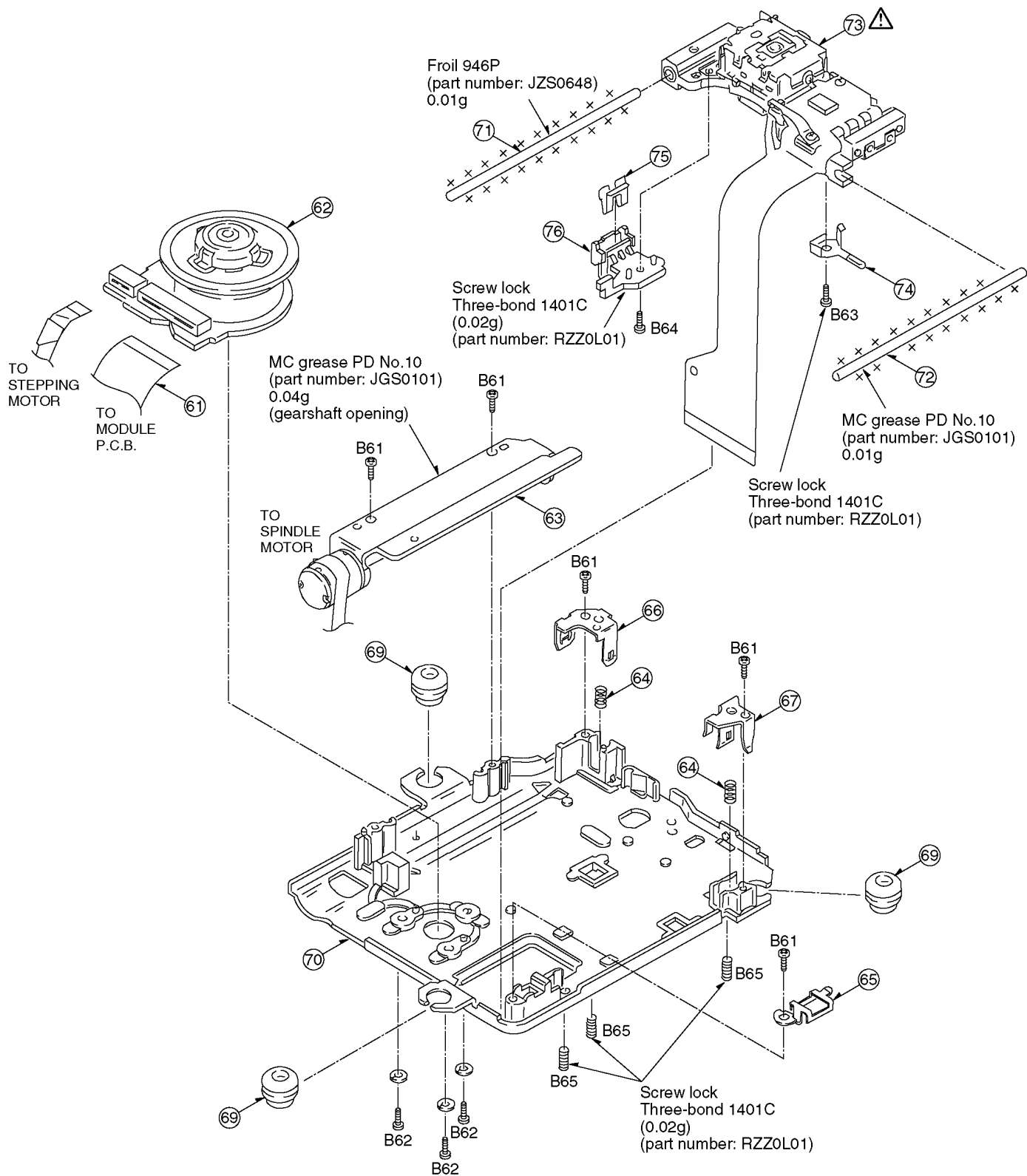
When replacing parts, lubricate the parts marked "xxx" in the diagram.



	Part number	Service Tool
Grease	JGS0091	Grease EM-30LG

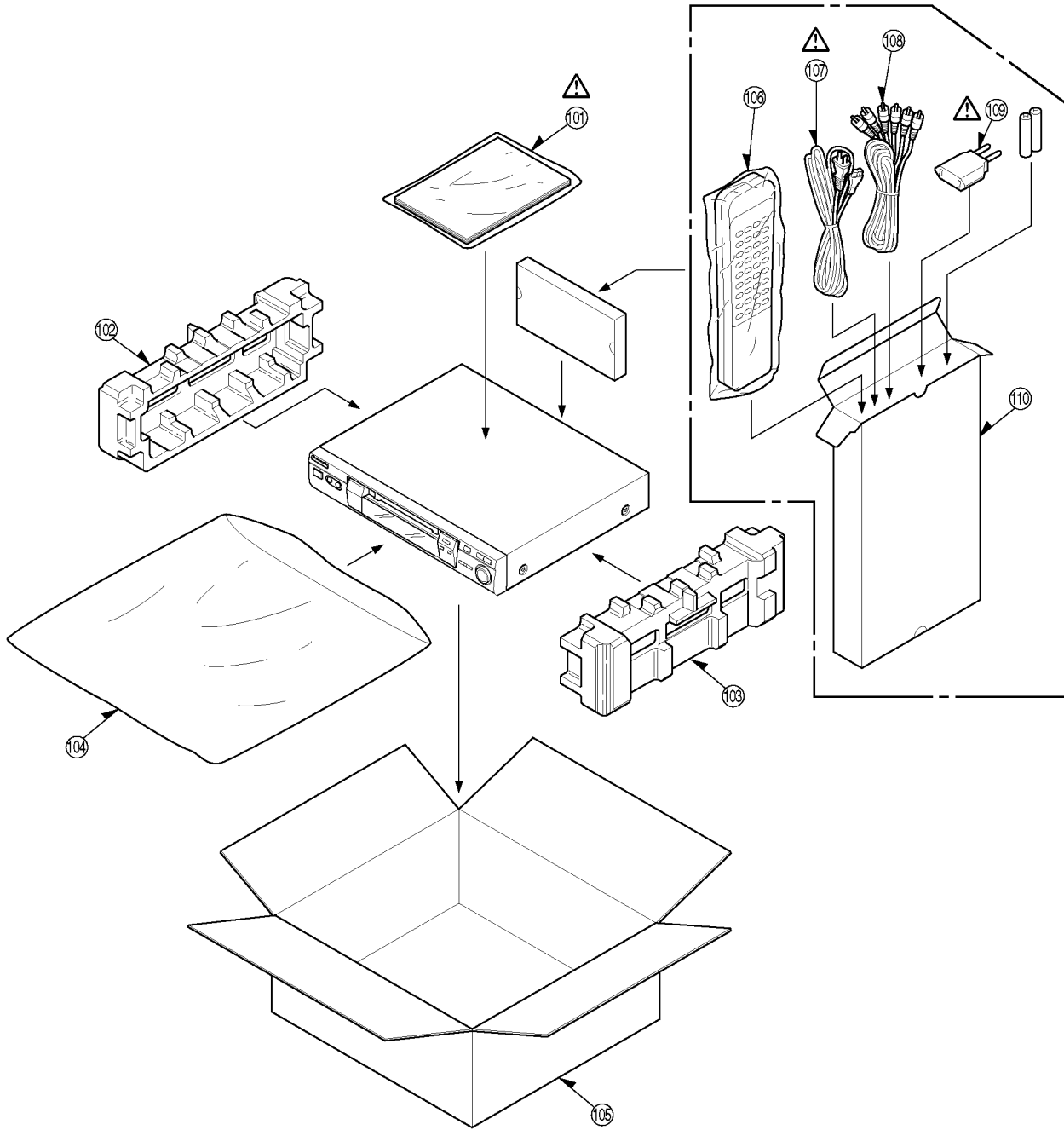
### 18.3. Traverse Section Exploded View

When replacing parts, lubricate the parts marked "xxx" in the diagram.



	Parts number	Service Tool
Screw lock	RZZ0L01	Three-bond 1401C
Lubricating oil	JZS0648	Froil 946P
Grease	JGS0101	MC grease PD No.10

# 18.4. Packing & Accessories Section Exploded View



# 19 REPLACEMENT PARTS LIST

## 19.1. Casing Parts & Mechanism Section Parts List

Note: 1. "Be sure to make your orders of replacement parts according to this list.  
2. IMPORTANT SAFETY NOTICE  
Components identified with the mark  $\triangle$  have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1 (1)	VGM1696	TOP COVER	1	
2 (1)	VYK8895	LEG	2	
3 (1)	VEP91251A	POWER SUPPLY P.C.B.	1	(RTL) $\triangle$
3-1 (1)	EYF52BC	FUSE HOLDER	2	$\triangle$
4 (1)	VEP99145J	MOTHER P.C.B.	1	(RTL)
6 (1)	VMA0P67	REAR PANEL	1	$\triangle$
7 (1)	VMD3854	SPACER (L)	1	
8 (1)	VMD3855	SPACER (R)	1	
9 (1)	VYF2675	TRAY TOP	1	
10 (1)	VKA0039	FOOT RUBBER	2	
11 (1)	VEP96587A	FRONT SWITCH P.C.B.	1	(RTL)
12 (1)	VWJ1406	12-PIN FLEXIBLE CABLE	1	(FP6401-FP6001)
14-* (1)	VGQ5639	MASK SHEET	1	
15 (1)	VMD3955	SHUTTLE BASE	1	
16 (1)	VDK0164	SHUTTLE CAM	1	
17 (1)	VMB3430	SHUTTLE SPRING	1	
18 (1)	VGL0812	HOLDER	1	
19 (1)	VYQ1896	SHUTTLE KNOB	1	
25 (1)	VKW2802	FRONT COVER	1	
26 (1)	VYP7772	FRONT PANEL	1	
28 (1)	VEP96586C	MODULE P.C.B.	1	(RTL)
31 (1)	VEP96588A	POWER SWITCH P.C.B.	1	(RTL)
34 (1)	VWJ1439	5-PIN FLEXIBLE CABLE	1	(FP6411-FP6002)
35 (1)	VMA0E29	FRONT ANGLE	1	
B1 (1)	VHD1094	SCREW	4	
B2 (1)	VHD0690	SCREW	3	
B3 (1)	VHD0690	SCREW	10	
B4 (1)	XTV3+8G	SCREW	2	
B5 (1)	XTBS26+10J	SCREW	8	
B6 (1)	XYE3+EF12	SCREW	2	
B7 (1)	XYE3+EF20	SCREW	2	
B8 (1)	XYE3+EF25	SCREW	4	
B9 (1)	XYE3+EF8	SCREW	3	
B11 (1)	XTV3+10G	SCREW	1	

## 19.2. Loading Mechanism Section Parts List

Note: 1. "Be sure to make your orders of replacement parts according to this list.  
2. IMPORTANT SAFETY NOTICE  
Components identified with the mark  $\triangle$  have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
41 (2)	VMD3270	INTERMEDIATE CHASSIS	1	
42 (2)	VMD3265	TRAY	1	
43 (2)	VDG1308	PULLEY GEAR	1	
44 (2)	VDG1309	DECELERATION GEAR	1	
45 (2)	VDG1310	DRIVE GEAR	1	
46 (2)	VDK0156	VERTICAL CAM	1	
47 (2)	VDV0373	BELT	1	
49 (2)	VMD3266	LOADING BASE	1	
50 (2)	VMA0E55-2	CLAMPER BASE	1	
51 (2)	RHM245ZA	MAGNET	1	
53 (2)	VMD3884	CLAMPER	1	
54 (2)	VMA0E54	CLAMPER WEIGHT	1	
55 (2)	VEM0664	LOADING MOTOR UNIT	1	
56 (2)	VSH0170	DOUBLE SWITCH	1	
B41 (2)	VHD1223	SCREW	3	
B42 (2)	XONQC17+3	SCREW	2	
B43 (2)	XTV3+10G	SCREW	1	
B44 (2)	VHD1330	SCREW	1	
B45 (2)	XTV3+10G	SCREW	2	

## 19.3. Traverse Section Parts List

Note: 1. Be sure to make your orders of replacement parts according to this list.  
 2. IMPORTANT SAFETY NOTICE  
 Components identified with the mark  $\triangle$  have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
61 (3)	VWJ1388	SPINDLE FFC	1	(DISC MOTOR-FP2501)
62 (3)	BML3E4CRU	SPINDLE MOTOR	1	
63 (3)	VEM0720	STEPPING MOTOR UNIT	1	
64 (3)	VMB3278	TILT SPRING	2	
65 (3)	VMC1487	SUB-SHAFT TILT SPRING	1	
66 (3)	VMC1606	SPRING HOLDER 1	1	
67 (3)	VMC1607	SPRING HOLDER 2	1	
69 (3)	VMG1166	FLOATING RUBBER	3	
70 (3)	VMK0502	TRAVERSE CHASSIS	1	
71 (3)	VMS6471	GUIDE SHAFT 1	1	
72 (3)	VMS6472	GUIDE SHAFT 2	1	
73 (3)	VED0402-1	OPTICAL PICK-UP	1	$\triangle$
74 (3)	VMC1491	SUB-SHAFT PRELOAD SPRING	1	
75 (3)	VMC1490	SCREW NUT	1	
76 (3)	VMD3260	NUT	1	
B61 (3)	VHD1224	SCREW	5	
B62 (3)	VHD1358	SCREW	3	
B63 (3)	VHD1057	SCREW	1	
B64 (3)	XQNC17+3	SCREW	1	
B65 (3)	XXE26C6FN	SCREW	3	

## 19.4. Packing & Accessories Section Parts List

Note: 1. Be sure to make your orders of replacement parts according to this list.  
 2. IMPORTANT SAFETY NOTICE  
 Components identified with the mark  $\triangle$  have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
101 (4)	VQT8623	OPERATING INSTRUCTIONS	1	$\triangle$
102 (4)	VPN5369	CUSHION(L)	1	
103 (4)	VPN5370	CUSHION(R)	1	
104 (4)	VPF0731	POLYETHYLENE BAG	1	
105 (4)	VPG0E30	PACKING CASE	1	
106 (4)	VEQ2377	REMOTE CONTROL UNIT	1	
106-* (4)	TR1122722010	BATTERY COVER	1	
107 (4)	VJA0667	AC CORD	1	$\triangle$
108 (4)	VJA1062	A/V CORD	1	
109 (4)	VJS1993	AC PLUG ADAPTOR	1	$\triangle$
110 (4)	VPK1891Z	ACCESSORY CASE	1	



# 19.5. Electrical Replacement Parts List

Note: 1. Be sure to make your orders of replacement parts according to this list.  
 2. IMPORTANT SAFETY NOTICE: Components identified with the mark  $\Delta$  have the special characteristics for safety. When replacing any of these components, use only the same type.  
 3. Unless otherwise specified,  
 All resistors are in OHMS, K=1,000 OHMS. All capacitors are in MICROFARADS ( $\mu$ F), P=1000P.  
 4. The P.C. Board units marked with  $\blacksquare$  show below the main assembled parts.  
 5. The marking (RTL) indicates the retention time is limited for this item.  
 After the discontinuation of this assembly in production, it will no longer be available.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
$\blacksquare$	VEP96586C	MODULE P.C.B.	1	(RTL)
$\blacksquare$	VEP99145J	MOTHER P.C.B.	1	(RTL)
$\blacksquare$	VEP91251A	POWER SUPPLY P.C.B.	1	(RTL) $\Delta$
$\blacksquare$	VEP96587A	FRONT SWITCH P.C.B.	1	(RTL)
$\blacksquare$	VEP96588A	POWER SWITCH P.C.B.	1	(RTL)
$\blacksquare$		LOADING P.C.B.	1	
$\blacksquare$	VEP96586C	MODULE P.C.B.	1	(RTL)
C2001	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C2002	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C2003	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C2004	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C2005	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C2006	ECUX1C104KBV	C.CAPACITOR 16V 0.1U	CH 1	
C2007	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C2012	ECUX1H331JCV	C.CAPACITOR 50V 330P	CH 1	
C2013	ECUX1H121JCV	C.CAPACITOR 50V 120P	CH 1	
C2014	ECUX1H121JCV	C.CAPACITOR 50V 120P	CH 1	
C2015	ECUX1H121JCV	C.CAPACITOR 50V 120P	CH 1	
C2016	ECUX1H101JCV	C.CAPACITOR 50V 100P	CH 1	
C2017	ECUX1H101JCV	C.CAPACITOR 50V 100P	CH 1	
C2018	ECUX1H391JCV	C.CAPACITOR 50V 390P	CH 1	
C2019	ECUX1H391JCV	C.CAPACITOR 50V 390P	CH 1	
C2020	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C2021	ECUX1C104KBV	C.CAPACITOR 16V 0.1U	CH 1	
C2022	ECUX1C104KBV	C.CAPACITOR 16V 0.1U	CH 1	
C2023	ECUX1H682KBV	C.CAPACITOR 50V 6800P	CH 1	
C2024	ECUX1H681JCV	C.CAPACITOR 50V 680P	CH 1	
C2025	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C2026	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C2028	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C2029	ECUX1H470JCV	C.CAPACITOR 50V 47P	CH 1	
C2030	ECUX1C183KBV	C.CAPACITOR 16V 0.018U	CH 1	
C2031	ECUX1H102JCV	C.CAPACITOR 50V 1000P	CH 1	
C2032	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C2033	ECUM1C474KBN	C.CAPACITOR 16V 0.47U	CH 1	
C2034	ECUX1H103KBV	C.CAPACITOR 50V 0.01U	CH 1	
C2035	ERJ3GEY0R00	M.RESISTOR 1/16W 0	CH 1	
C2037	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C2038	ECUX1C473KBV	C.CAPACITOR 16V 0.047U	CH 1	
C2039	ECUX1C393KBV	C.CAPACITOR 16V 0.039U	CH 1	
C2040	ECUX1H822KBV	C.CAPACITOR 50V 8200P	CH 1	
C2041	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C2042	ECUX1C104KBV	C.CAPACITOR 16V 0.1U	CH 1	
C2043	ECUX1C473KBV	C.CAPACITOR 16V 0.047U	CH 1	
C2044	ECUX1C104KBV	C.CAPACITOR 16V 0.1U	CH 1	
C2045	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C2046	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C2047	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C2048	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C2051	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C2500	ECEV1CA101W	E.CAPACITOR 16V 100U	CH 1	
C2501	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C2502	ECEV0JA331P	E.CAPACITOR CH6.3V 330U	1	
C2503	ECUX1H103KBV	C.CAPACITOR 50V 0.01U	CH 1	
C2504	ECUX1H103KBV	C.CAPACITOR 50V 0.01U	CH 1	
C2505	ECUX1H103KBV	C.CAPACITOR 50V 0.01U	CH 1	
C2506	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C2507	ECUX1C104KBV	C.CAPACITOR 16V 0.1U	CH 1	
C2508	ECUX1C104KBV	C.CAPACITOR 16V 0.1U	CH 1	
C2509	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C2513	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C2514	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C2515	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C2516	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C2517	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C2518	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C2521	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C2522	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C2523	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C2524	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C2525	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C3001	ECEV0JA331P	E.CAPACITOR CH6.3V 330U	1	
C3002	ECEV0JA331P	E.CAPACITOR CH6.3V 330U	1	
C3003	ECEV0JA331P	E.CAPACITOR CH6.3V 330U	1	
C3004	ECUX1A105ZFV	C.CAPACITOR 10V 1U	CH 1	
C3005	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C3006	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C3007	ECUX1A105ZFV	C.CAPACITOR 10V 1U	CH 1	
C3008	ECUX1A105ZFV	C.CAPACITOR 10V 1U	CH 1	
C3009	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C3010	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C3011	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C3012	ECUX1A105ZFV	C.CAPACITOR 10V 1U	CH 1	
C3013	ECUX1A105ZFV	C.CAPACITOR 10V 1U	CH 1	
C3014	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C3015	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C3016	ECUX1A105ZFV	C.CAPACITOR 10V 1U	CH 1	
C3017	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C3018	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C3019	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C3020	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C3021	ECUX1A105ZFV	C.CAPACITOR 10V 1U	CH 1	
C3022	ECUX1A105ZFV	C.CAPACITOR 10V 1U	CH 1	
C3023	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C3024	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C3025	ECUX1A105ZFV	C.CAPACITOR 10V 1U	CH 1	
C3026	ECUX1A105ZFV	C.CAPACITOR 10V 1U	CH 1	
C3027	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C3028	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C3029	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C3030	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C3031	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C3032	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3033	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C3034	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C3035	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C3036	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C3037	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C3038	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C3039	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C3041	ECUX1H220JCV	C.CAPACITOR 50V 22P	CH 1	
C3048	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C3049	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C3051	ECUM1A105KBN	C.CAPACITOR 10V 1U	CH 1	
C3052	ECUM1A105KBN	C.CAPACITOR 10V 1U	CH 1	
C3053	ECUM1A105KBN	C.CAPACITOR 10V 1U	CH 1	
C3054	ECUM1A105KBN	C.CAPACITOR 10V 1U	CH 1	
C3061	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C3062	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C3063	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C3064	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C3065	VCS1AS106	T.CAPACITOR 10V 10U	CH 1	
C3066	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C3091	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C3201	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C3202	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C3203	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C3204	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C3205	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C3206	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C3207	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C3208	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C3209	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C3211	ECUX1C104KBV	C.CAPACITOR 16V 0.1U	CH 1	
C3212	ECUX1C104KBV	C.CAPACITOR 16V 0.1U	CH 1	
C3213	ECUM1A105KBN	C.CAPACITOR 10V 1U	CH 1	
C3221	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C3225	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C3231	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C3235	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C3251	VCS1AS106	T.CAPACITOR 10V 10U	CH 1	
C3252	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C3253	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3254	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C3255	ECUX1C104ZJV	C.CAPACITOR 16V 0.1U	CH 1	
C3256	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C3257	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C3258	ECUX1C104ZJV	C.CAPACITOR 16V 0.1U	CH 1	
C3261	ECUX1C104ZJV	C.CAPACITOR 16V 0.1U	CH 1	
C3262	ECUX1C104ZJV	C.CAPACITOR 16V 0.1U	CH 1	
C3263	ECUX1C104ZJV	C.CAPACITOR 16V 0.1U	CH 1	
C3264	ECUX1C104ZJV	C.CAPACITOR 16V 0.1U	CH 1	
C4201	EEVFC0J152XP	E.CAPACITOR 6.3V 1500U	1	
C4202	ECUX1C104ZJV	C.CAPACITOR 16V 0.1U	CH 1	
C4203	ECUX1C104ZJV	C.CAPACITOR 16V 0.1U	CH 1	
C4204	VCS1AS106	T.CAPACITOR 10V 10U	CH 1	
C4205	ECUX1C104ZJV	C.CAPACITOR 16V 0.1U	CH 1	
C4206	VCS1AS106	T.CAPACITOR 10V 10U	CH 1	
C4207	ECUX1C104ZJV	C.CAPACITOR 16V 0.1U	CH 1	
C4208	ECUX1C104ZJV	C.CAPACITOR 16V 0.1U	CH 1	
C4209	ECUX1C104ZJV	C.CAPACITOR 16V 0.1U	CH 1	
C4210	ECUX1C104ZJV	C.CAPACITOR 16V 0.1U	CH 1	
C4212	VCS1CU106	T.CAPACITOR 16V 10U	CH 1	
C4213	ECUX1C104ZJV	C.CAPACITOR 16V 0.1U	CH 1	
C4214	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C4215	VCS1CU106	T.CAPACITOR 16V 10U	CH 1	
C4216	ECUX1C104ZJV	C.CAPACITOR 16V 0.1U	CH 1	
C4217	ECUX1C104ZJV	C.CAPACITOR 16V 0.1U	CH 1	
C4218	VCS1AS106	T.CAPACITOR 10V 10U	CH 1	
C4221	ECUX1C104ZJV	C.CAPACITOR 16V 0.1U	CH 1	
C4223	ECUX1C104ZJV	C.CAPACITOR 16V 0.1U	CH 1	
C4224	ECUX1C104ZJV	C.CAPACITOR 16V 0.1U	CH 1	
C4225	ECUX1C104ZJV	C.CAPACITOR 16V 0.1U	CH 1	
C5201	EEVHB0J330R	E.CAPACITOR 6.3V 33U	1	
C5202	ECUX1C104ZJV	C.CAPACITOR 16V 0.1U	CH 1	
C5203	ECUX1C104ZJV	C.CAPACITOR 16V 0.1U	CH 1	
C5204	EEVHB0J330R	E.CAPACITOR 6.3V 33U	1	
C5205	ECUX1C104ZJV	C.CAPACITOR 16V 0.1U	CH 1	
C5211	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C5212	ECUX1H221JCV	C.CAPACITOR 50V 220P	CH 1	
C5213	ECUX1C104KBV	C.CAPACITOR 16V 0.1U	CH 1	
C5214	ECUX1C104ZJV	C.CAPACITOR 16V 0.1U	CH 1	
C5215	ECUX1C104ZJV	C.CAPACITOR 16V 0.1U	CH 1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C5216	ECUX1H102JCV	C.CAPACITOR 50V 1000P	CH 1	
C5217	ECUX1C104KBV	C.CAPACITOR 16V 0.1U	CH 1	
C5218	ECUX1H180JCV	C.CAPACITOR 50V 18P	CH 1	
C5219	ECUX1H182KBV	C.CAPACITOR 50V 1800P	CH 1	
C5220	ECUX1H101JCV	C.CAPACITOR 50V 100P	CH 1	
C5221	ECUX1H390JCV	C.CAPACITOR 50V 39P	CH 1	
C5222	ECUV1A474KBV	C.CAPACITOR 10V 0.47U	CH 1	
C5223	ECUV1A474KBV	C.CAPACITOR 10V 0.47U	CH 1	
C5224	ECUX1H221JCV	C.CAPACITOR 50V 220P	CH 1	
C5225	ECUX1H221JCV	C.CAPACITOR 50V 220P	CH 1	
C5226	ECUX1C104KBV	C.CAPACITOR 16V 0.1U	CH 1	
C5227	ECUX1C104ZJV	C.CAPACITOR 16V 0.1U	CH 1	
C5232	ECUX1C104ZJV	C.CAPACITOR 16V 0.1U	CH 1	
C5233	VCS1AS106	T.CAPACITOR 10V 10U	CH 1	
C5234	ECUX1C104ZJV	C.CAPACITOR 16V 0.1U	CH 1	
C5241	ECUX1C104ZJV	C.CAPACITOR 16V 0.1U	CH 1	
C5242	ECUX1C104ZJV	C.CAPACITOR 16V 0.1U	CH 1	
C6201	EEVHB0J330R	E.CAPACITOR 6.3V 33U	1	
C6202	ECUX1C104ZJV	C.CAPACITOR 16V 0.1U	CH 1	
C6203	ECUX1C104ZJV	C.CAPACITOR 16V 0.1U	CH 1	
C6204	ECUX1C104ZJV	C.CAPACITOR 16V 0.1U	CH 1	
C6206	ECUX1C104ZJV	C.CAPACITOR 16V 0.1U	CH 1	
C6207	ECUX1C104ZJV	C.CAPACITOR 16V 0.1U	CH 1	
C6208	ECUX1C104ZJV	C.CAPACITOR 16V 0.1U	CH 1	
C6251	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C6252	VCS1AS106	T.CAPACITOR 10V 10U	CH 1	
C6253	ECUX1C104ZJV	C.CAPACITOR 16V 0.1U	CH 1	
C6254	ECUX1C104ZJV	C.CAPACITOR 16V 0.1U	CH 1	
C6255	EEVHB0J330R	E.CAPACITOR 6.3V 33U	1	
C6256	ECEV0JA331P	E.CAPACITOR CH6.3V 330U	1	
C6257	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C6258	ECUX1H103KBV	C.CAPACITOR 50V 0.01U	CH 1	
C6259	ECUX1C104ZJV	C.CAPACITOR 16V 0.1U	CH 1	
C6301	ECUX1H101JCV	C.CAPACITOR 50V 100P	CH 1	
C6302	ECUX1C104KBV	C.CAPACITOR 16V 0.1U	CH 1	
C6303	ECUX1C104ZJV	C.CAPACITOR 16V 0.1U	CH 1	
C6304	ECUX1C104ZJV	C.CAPACITOR 16V 0.1U	CH 1	
C6305	ECUX1C104ZJV	C.CAPACITOR 16V 0.1U	CH 1	
C6501	EEVHB0J330R	E.CAPACITOR 6.3V 33U	1	
C6502	ECUX1C104ZJV	C.CAPACITOR 16V 0.1U	CH 1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C6503	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C6504	VCS1AS106	T.CAPACITOR 10V 10U	CH 1	
C6505	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C6506	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C6511	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C6512	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C6513	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C6514	ECUX1H150JCV	C.CAPACITOR 50V 15P	CH 1	
C6515	ECUX1H150JCV	C.CAPACITOR 50V 15P	CH 1	
C6516	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C6517	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C6551	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C6553	VCS1AS475	T.CAPACITOR 10V 4.7U	CH 1	
C7001	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C7002	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C7011	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C7012	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C7013	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C7014	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C7015	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C7016	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C7017	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C7018	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C7019	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C7020	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C7021	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C7022	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C7023	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C7024	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C7025	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C7026	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
C7027	ECUX1C104ZFV	C.CAPACITOR 16V 0.1U	CH 1	
D3251	MA111	DIODE	1	
D6251	MA111	DIODE	1	
D6301	MA728	DIODE	1	
FL4001	VLF1491S105	FILTER	1	
FL6251	VLF1491S105	FILTER	1	
FL6253	VLF1491S105	FILTER	1	
FL6254	VLF1491S105	FILTER	1	
FL6255	VLF1491S104	FILTER	1	
FP2501	VJS4383D017B	CONNECTOR (FEMALE) 17P	1	
FP5201	VJS3913A021	CONNECTOR (FEMALE) 21P	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC2001	MN67706EA	IC	1	
IC2501	AN8480NSB	IC	1	
IC2511	BA5983FM	IC	1	
IC3001	MN677521HB	IC	1	
IC3061	M56V16160D8	IC	1	
IC3091	TC7WH157FU	IC	1	
IC3201	ADV7190	IC	1	
IC3251	PQ1R33	IC	1	
IC4201	PCM1746E	IC	1	
IC4211	PCM1600Y	IC	1	
IC5201	AN8707FH	IC	1	
IC6201	MN102H55GFB	IC	1	
IC6251	PQ1R33	IC	1	
IC6301	PST596JNR	IC	1	
IC6302	VUB8011K492	IC	1	
IC6303	AT25020NSI27	IC	1	
IC6501	BU2285FV	IC	1	
IC6551	TK71533SCL	IC	1	
IC7001	MN103S13BGA	IC	1	
K2002	ERJ3GEY0R00	M.RESISTOR 1/16W 0	CH 1	
K3001	ERJ6GEY0R00	M.RESISTOR 1/10W 0	CH 1	
K3002	ERJ6GEY0R00	M.RESISTOR 1/10W 0	CH 1	
K3003	ERJ6GEY0R00	M.RESISTOR 1/10W 0	CH 1	
K3004	ERJ6GEY0R00	M.RESISTOR 1/10W 0	CH 1	
K3011	ERJ3GEY0R00	M.RESISTOR 1/16W 0	CH 1	
K3012	ERJ3GEY0R00	M.RESISTOR 1/16W 0	CH 1	
K3013	ERJ3GEY0R00	M.RESISTOR 1/16W 0	CH 1	
K3201	ERJ3GEY0R00	M.RESISTOR 1/16W 0	CH 1	
K3202	ERJ3GEY0R00	M.RESISTOR 1/16W 0	CH 1	
K3227	ERJ3GEY0R00	M.RESISTOR 1/16W 0	CH 1	
K4201	ERJ6GEY0R00	M.RESISTOR 1/10W 0	CH 1	
K5231	ERJ3GEY0R00	M.RESISTOR 1/16W 0	CH 1	
K5241	ERJ3GEY0R00	M.RESISTOR 1/16W 0	CH 1	
K6251	ERJ14Y0R00	M.RESISTOR 1/4W 0	CH 1	
K6502	ERJ3GEY0R00	M.RESISTOR 1/16W 0	CH 1	
K6503	ERJ3GEY0R00	M.RESISTOR 1/16W 0	CH 1	
K6504	ERJ3GEY0R00	M.RESISTOR 1/16W 0	CH 1	
K6521	ERJ3GEY0R00	M.RESISTOR 1/16W 0	CH 1	
K6531	ERJ3GEY0R00	M.RESISTOR 1/16W 0	CH 1	
L2001	VLQ0860K100	COIL 10UH	1	
L2002	VLQ0910K100	COIL 10UH	1	
L2003	VLQ0910K100	COIL 10UH	1	
L2501	ERJ14Y0R00	M.RESISTOR 1/4W 0	CH 1	
L3251	ELJEA100KF	COIL	1	
L4212	ERJ8GEYJ470	M.RESISTOR 1/8W 47	CH 1	
L5201	VLQ0860K100	COIL 10UH	1	
L5202	VLQ0910K100	COIL 10UH	1	
L6201	VLP0156	COIL	1	
L6501	VLQ0920K220	COIL 22UH	1	
L6502	VLQ0920K220	COIL 22UH	1	
L7001	VLQ0910K100	COIL 10UH	1	
L7002	VLQ0910K100	COIL 10UH	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
LA2501	VLP0412A601	CHIP SOLID INDUCTOR	1	
LA2502	VLP0412A601	CHIP SOLID INDUCTOR	1	
LB2509	JALBK2HS470T	COIL	1	
LB2510	JALBK2HS470T	COIL	1	
LB2511	JALBK2HS470T	COIL	1	
LB2512	VLP0323A601R	CHIP SOLID INDUCTOR	1	
LB2513	JALBK2HS470T	COIL	1	
LB2514	JALBK2HS470T	COIL	1	
LB2515	JALBK2HS470T	COIL	1	
LB2516	JALBK2HS470T	COIL	1	
LB3001	VLP0157	COIL	1	
LB3201	VLP0323A601R	CHIP SOLID INDUCTOR	1	
LB3202	VLP0323A601R	CHIP SOLID INDUCTOR	1	
LB3206	VLP0323A601R	CHIP SOLID INDUCTOR	1	
LB3207	VLP0323A601R	CHIP SOLID INDUCTOR	1	
LB4001	VLP0323A601R	CHIP SOLID INDUCTOR	1	
LB4002	VLP0323A601R	CHIP SOLID INDUCTOR	1	
LB4003	VLP0323A601R	CHIP SOLID INDUCTOR	1	
LB4004	VLP0323A601R	CHIP SOLID INDUCTOR	1	
LB4005	VLP0323A601R	CHIP SOLID INDUCTOR	1	
LB4006	VLP0323A601R	CHIP SOLID INDUCTOR	1	
LB4007	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	
LB4008	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	
LB4009	VLP0323A601R	CHIP SOLID INDUCTOR	1	
LB4010	VLP0323A601R	CHIP SOLID INDUCTOR	1	
LB4011	VLP0323A601R	CHIP SOLID INDUCTOR	1	
LB4012	VLP0323A601R	CHIP SOLID INDUCTOR	1	
LB4013	VLP0323A601R	CHIP SOLID INDUCTOR	1	
LB4014	VLP0323A601R	CHIP SOLID INDUCTOR	1	
LB5201	VLP0323A601R	CHIP SOLID INDUCTOR	1	
LB5202	VLP0323A601R	CHIP SOLID INDUCTOR	1	
LB5203	VLP0323A601R	CHIP SOLID INDUCTOR	1	
LB5204	VLP0323A601R	CHIP SOLID INDUCTOR	1	
LB5205	VLP0323A601R	CHIP SOLID INDUCTOR	1	
LB5206	VLP0323A601R	CHIP SOLID INDUCTOR	1	
LB5207	VLP0323A601R	CHIP SOLID INDUCTOR	1	
LB5208	VLP0323A601R	CHIP SOLID INDUCTOR	1	
LB5209	VLP0323A601R	CHIP SOLID INDUCTOR	1	
LB5210	VLP0323A601R	CHIP SOLID INDUCTOR	1	
LB5211	JALBK2HS470T	COIL	1	
LB5212	VLP0323A601R	CHIP SOLID INDUCTOR	1	
LB5213	VLP0323A601R	CHIP SOLID INDUCTOR	1	
LB5214	VLP0323A601R	CHIP SOLID INDUCTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
LB5215	VLP0174	COIL	1	
LB5216	VLP0174	COIL	1	
LB5217	VLP0174	COIL	1	
LB5218	VLP0174	COIL	1	
LB6201	VLP0155	COIL	1	
LB6501	VLP0323A601R	CHIP SOLID INDUCTOR	1	
LB6502	VLP0155	COIL	1	
LB6503	VLP0155	COIL	1	
LB6504	VLP0323A601R	CHIP SOLID INDUCTOR	1	
LB6505	VLP0155	COIL	1	
LB6506	VLP0323A601R	CHIP SOLID INDUCTOR	1	
LB6507	VLP0155	COIL	1	
LB6551	VLP0323A601R	CHIP SOLID INDUCTOR	1	
PS3201	VJS4222C022B	CONNECTOR (FEMALE) 22P	1	
PS4201	VJS4222A026B	CONNECTOR (FEMALE) 26P	1	
PS6201	VJS2961A010	CONNECTOR (FEMALE) 10P	1	
Q3221	2SB1218A-R	TRANSISTOR	1	
Q3225	2SB1218A-R	TRANSISTOR	1	
Q3231	2SB1218A-R	TRANSISTOR	1	
Q3235	2SB1218A-R	TRANSISTOR	1	
Q5201	2SB1115-T	TRANSISTOR	1	
QR2001	UN5213	TRANSISTOR- RESISTOR	1	
QR4211	UN5212	TRANSISTOR- RESISTOR	1	
QR5201	UN5212	TRANSISTOR- RESISTOR	1	
QR5231	UN2121	TRANSISTOR- RESISTOR	1	
QR6301	UN5212	TRANSISTOR- RESISTOR	1	
R2001	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R2002	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R2003	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R2004	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R2005	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R2006	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R2007	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R2008	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R2009	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R2010	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R2011	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R2012	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R2013	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R2014	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R2017	ERJ3GEYF153	M.RESISTOR CH 1/16W 15K	1	
R2018	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R2020	ERJ3GEYF123	M.RESISTOR CH 1/16W 12K	1	
R2021	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R2022	ERJ3GEYJ223	M.RESISTOR 1/16W 22K	CH 1	
R2023	ERJ3GEYJ223	M.RESISTOR 1/16W 22K	CH 1	
R2024	ERJ3GEYJ563	M.RESISTOR 1/16W 56K	CH 1	
R2025	ERJ3GEYJ563	M.RESISTOR 1/16W 56K	CH 1	
R2026	ERJ3GEYJ101	M.RESISTOR 1/16W 100	CH 1	
R2027	ERJ3GEYJ472	M.RESISTOR 1/16W 4.7K	CH 1	
R2028	ERJ3GEYJ103	M.RESISTOR 1/16W 10K	CH 1	
R2029	ERJ3RBD103	M.RESISTOR 1/16W 10K	CH 1	
R2030	ERJ3GEYJ103	M.RESISTOR 1/16W 10K	CH 1	
R2031	ERJ3GEY0R00	M.RESISTOR 1/16W 0	CH 1	
R2032	ERJ3GEYJ473	M.RESISTOR 1/16W 47K	CH 1	
R2033	ERJ3GEYJ472	M.RESISTOR 1/16W 4.7K	CH 1	
R2034	ERJ3GEYJ472	M.RESISTOR 1/16W 4.7K	CH 1	
R2501	ERJ3GEYJ271	M.RESISTOR 1/16W 270	CH 1	
R2502	ERJ3GEYJ271	M.RESISTOR 1/16W 270	CH 1	
R2503	ERJ14YKR39	M.RESISTOR 1/4W 0.39	CH 1	
R2505	ERJ3GEYJ473	M.RESISTOR 1/16W 47K	CH 1	
R2511	ERJ3GEYJ203	M.RESISTOR 1/16W 20K	CH 1	
R2512	ERJ3GEYJ273	M.RESISTOR 1/16W 27K	CH 1	
R2513	ERJ3GEYJ333	M.RESISTOR 1/16W 33K	CH 1	
R2514	ERJ3GEYJ203	M.RESISTOR 1/16W 20K	CH 1	
R2515	ERJ3GEYJ273	M.RESISTOR 1/16W 27K	CH 1	
R2516	ERJ3GEYJ333	M.RESISTOR 1/16W 33K	CH 1	
R2517	ERJ3GEYJ123	M.RESISTOR 1/16W 12K	CH 1	
R2518	ERJ3GEYJ103	M.RESISTOR 1/16W 10K	CH 1	
R2519	ERJ3GEYJ752	M.RESISTOR 1/16W 7.5K	CH 1	
R2520	ERJ3GEYJ123	M.RESISTOR 1/16W 12K	CH 1	
R2521	ERJ3GEYJ103	M.RESISTOR 1/16W 10K	CH 1	
R2522	ERJ3GEYJ752	M.RESISTOR 1/16W 7.5K	CH 1	
R3001	ERJ3GEYJ473	M.RESISTOR 1/16W 47K	CH 1	
R3003	ERJ3GEYJ103	M.RESISTOR 1/16W 10K	CH 1	
R3004	ERJ3GEYJ101	M.RESISTOR 1/16W 100	CH 1	
R3006	ERJ3GEYJ220	M.RESISTOR 1/16W 22	CH 1	
R3042	ERJ3GEYJ102	M.RESISTOR 1/16W 1K	CH 1	
R3044	ERJ3GEYJ102	M.RESISTOR 1/16W 1K	CH 1	
R3047	ERJ3GEYJ102	M.RESISTOR 1/16W 1K	CH 1	
R3051	ERJ3GEYJ101	M.RESISTOR 1/16W 100	CH 1	
R3052	ERJ3GEYJ684	M.RESISTOR 1/16W 680K	CH 1	
R3053	ERJ3GEYJ101	M.RESISTOR 1/16W 100	CH 1	
R3054	ERJ3GEYJ684	M.RESISTOR 1/16W 680K	CH 1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3055	ERJ3GEYJ101	M.RESISTOR 1/16W 100	CH 1	
R3056	ERJ3GEYJ684	M.RESISTOR 1/16W 680K	CH 1	
R3057	ERJ3GEYJ101	M.RESISTOR 1/16W 100	CH 1	
R3058	ERJ3GEYJ684	M.RESISTOR 1/16W 680K	CH 1	
R3071	ERJ3GEYJ103	M.RESISTOR 1/16W 10K	CH 1	
R3201	ERJ3GEYJ101	M.RESISTOR 1/16W 100	CH 1	
R3202	ERJ3GEYJ101	M.RESISTOR 1/16W 100	CH 1	
R3203	ERJ3RBD821	M.RESISTOR 1/16W 820	CH 1	
R3204	ERJ3GEYJ221	M.RESISTOR 1/16W 220	CH 1	
R3205	ERJ3RBD102	M.RESISTOR 1/16W 1K	CH 1	
R3206	ERJ3RBD102	M.RESISTOR 1/16W 1K	CH 1	
R3207	ERJ3RBD471	M.RESISTOR 1/16W 470	CH 1	
R3221	ERJ3RBD221	M.RESISTOR 1/16W 220	CH 1	
R3222	ERJ3GEYJ330	M.RESISTOR 1/16W 33	CH 1	
R3223	ERJ3GEYJ102	M.RESISTOR 1/16W 1K	CH 1	
R3225	ERJ3RBD221	M.RESISTOR 1/16W 220	CH 1	
R3226	ERJ3GEYJ330	M.RESISTOR 1/16W 33	CH 1	
R3227	ERJ3GEYJ102	M.RESISTOR 1/16W 1K	CH 1	
R3231	ERJ3RBD181	M.RESISTOR 1/16W 180	CH 1	
R3232	ERJ3GEYJ330	M.RESISTOR 1/16W 33	CH 1	
R3233	ERJ3GEYJ102	M.RESISTOR 1/16W 1K	CH 1	
R3235	ERJ3RBD181	M.RESISTOR 1/16W 180	CH 1	
R3236	ERJ3GEYJ330	M.RESISTOR 1/16W 33	CH 1	
R3237	ERJ3GEYJ102	M.RESISTOR 1/16W 1K	CH 1	
R4201	ERJ3GEYJ331	M.RESISTOR 1/16W 330	CH 1	
R4202	ERJ3GEYJ222	M.RESISTOR 1/16W 2.2K	CH 1	
R4211	ERJ3GEYJ101	M.RESISTOR 1/16W 100	CH 1	
R5201	ERJ12YJ270	M.RESISTOR 1/2W 27	CH 1	
R5202	ERJ3GEYJ2R2	M.RESISTOR 1/16W 2.2	CH 1	
R5203	ERJ3GEYJ223	M.RESISTOR 1/16W 22K	CH 1	
R5204	ERJ3GEYJ123	M.RESISTOR 1/16W 12K	CH 1	
R5206	ERJ3GEYJ154	M.RESISTOR 1/16W 150K	CH 1	
R5207	ERJ3GEYF562	M.RESISTOR 1/16W 5.6K	CH 1	
R5208	ERJ3GEYJ101	M.RESISTOR 1/16W 100	CH 1	
R5209	ERJ3GEYF303	M.RESISTOR 1/16W 30K	CH 1	
R5210	ERJ3GEYF473	M.RESISTOR 1/16W 47K	CH 1	
R5211	ERJ3GEYF183	M.RESISTOR 1/16W 18K	CH 1	
R5212	ERJ3GEYF562	M.RESISTOR 1/16W 5.6K	CH 1	
R5213	ERJ3GEYJ103	M.RESISTOR 1/16W 10K	CH 1	
R5214	ERJ3GEYJ105	M.RESISTOR 1/16W 1M	CH 1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R5215	ERJ3GEYJ105	M.RESISTOR 1/16W 1M	CH 1	
R5216	ERJ3GEYJ105	M.RESISTOR 1/16W 1M	CH 1	
R5217	ERJ3GEY0R00	M.RESISTOR 1/16W 0	CH 1	
R6201	ERJ3GEYJ103	M.RESISTOR 1/16W 10K	CH 1	
R6208	ERJ3GEYJ473	M.RESISTOR 1/16W 47K	CH 1	
R6209	ERJ3GEYJ473	M.RESISTOR 1/16W 47K	CH 1	
R6210	ERJ3GEYJ473	M.RESISTOR 1/16W 47K	CH 1	
R6211	ERJ3GEYJ473	M.RESISTOR 1/16W 47K	CH 1	
R6212	ERJ3GEYJ473	M.RESISTOR 1/16W 47K	CH 1	
R6301	ERJ3GEYJ103	M.RESISTOR 1/16W 10K	CH 1	
R6302	ERJ3GEYJ472	M.RESISTOR 1/16W 4.7K	CH 1	
R6303	ERJ3GEYJ472	M.RESISTOR 1/16W 4.7K	CH 1	
R6502	ERJ3RBD221	M.RESISTOR 1/16W 220	CH 1	
R6503	ERJ3GEYJ103	M.RESISTOR 1/16W 10K	CH 1	
R6504	ERJ3GEYJ103	M.RESISTOR 1/16W 10K	CH 1	
R7001	ERJ3GEYJ102	M.RESISTOR 1/16W 1K	CH 1	
R7002	ERJ3GEYJ473	M.RESISTOR 1/16W 47K	CH 1	
RA2001	EXBV8VR000	RESISTOR- RESISTOR	1	
RA2501	EXBV4V103J	RESISTOR- RESISTOR	1	
RA3003	EXBV4V103J	RESISTOR- RESISTOR	1	
RA3004	EXBV4V472J	RESISTOR- RESISTOR	1	
RA3005	EXBV4V221J	RESISTOR- RESISTOR	1	
RA3006	EXBV4V221J	RESISTOR- RESISTOR	1	
RA3007	EXBV4V221J	RESISTOR- RESISTOR	1	
RA3008	EXBV4V473J	RESISTOR- RESISTOR	1	
RA3201	EXBV8V471J	RESISTOR- RESISTOR	1	
RA3202	EXBV8V471J	RESISTOR- RESISTOR	1	
RA3203	EXBV8V103J	RESISTOR- RESISTOR	1	
RA3204	EXBV8V103J	RESISTOR- RESISTOR	1	
RA3205	EXBV4V473J	RESISTOR- RESISTOR	1	
RA5201	EXBV4V101J	RESISTOR- RESISTOR	1	
RA6201	EXBV4V103J	RESISTOR- RESISTOR	1	
RA6202	EXBV4V473J	RESISTOR- RESISTOR	1	
RA6203	EXBV4V473J	RESISTOR- RESISTOR	1	
RA6204	EXBV4V103J	RESISTOR- RESISTOR	1	
RA6205	EXBV8V473J	RESISTOR- RESISTOR	1	
RA6206	EXBV4V473J	RESISTOR- RESISTOR	1	
RA7001	EXBV8V473J	RESISTOR- RESISTOR	1	
RA7002	EXBV8V473J	RESISTOR- RESISTOR	1	
RA7003	EXBV8V473J	RESISTOR- RESISTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
VR3201	VRV0293B102T	VARIABLE RESISTOR	1	
W3001	ERJ6GEY0R00	M.RESISTOR 1/10W 0	CH 1	
X6501	VSX1044	CRYSTAL OSCILLATOR	1	
■	VEP99145J	MOTHER P.C.B.	1	(RTL)
C2591	ECEA1CKA101	E.CAPACITOR 16V 100U	16V 1	
C2592	ECUM1H104ZFN	C.CAPACITOR 50V 0.1U	CH 1	
C3500	ECA0JM471	E.CAPACITOR 470U	6.3V 1	
C3501	ECA0JM221	E.CAPACITOR 220U	6.3V 1	
C3502	ECUM1H103ZFN	C.CAPACITOR 50V 0.01U	CH 1	
C3503	ECUM1H103ZFN	C.CAPACITOR 50V 0.01U	CH 1	
C3504	ECUM1H103ZFN	C.CAPACITOR 50V 0.01U	CH 1	
C3505	ECUM1H103ZFN	C.CAPACITOR 50V 0.01U	CH 1	
C3511	ECUM1H103KBN	C.CAPACITOR 50V 0.01U	CH 1	
C3512	ECUM1H103ZFN	C.CAPACITOR 50V 0.01U	CH 1	
C3513	ECUM1H103ZFN	C.CAPACITOR 50V 0.01U	CH 1	
C3514	ECUM1H103ZFN	C.CAPACITOR 50V 0.01U	CH 1	
C3531	ECA0JM221	E.CAPACITOR 220U	6.3V 1	
C3532	ECUM1H103ZFN	C.CAPACITOR 50V 0.01U	CH 1	
C3533	ECEA1CKA470	E.CAPACITOR 47U	16V 1	
C3534	ECUM1H103KBN	C.CAPACITOR 50V 0.01U	CH 1	
C3535	ECA0JM221	E.CAPACITOR 220U	6.3V 1	
C3536	ECUM1H103ZFN	C.CAPACITOR 50V 0.01U	CH 1	
C3537	ECEA1CKA100	E.CAPACITOR 10U	16V 1	
C3538	ECA0JM102	E.CAPACITOR 1000U	6.3V 1	
C3539	ECEA1CKA100	E.CAPACITOR 10U	16V 1	
C3540	ECA0JM102	E.CAPACITOR 1000U	6.3V 1	
C3542	ECUM1H103KBN	C.CAPACITOR 50V 0.01U	CH 1	
C3543	ECUM1H103ZFN	C.CAPACITOR 50V 0.01U	CH 1	
C3544	ECUM1H103ZFN	C.CAPACITOR 50V 0.01U	CH 1	
C3551	ECA0JM221	E.CAPACITOR 220U	6.3V 1	
C3552	ECUM1H103ZFN	C.CAPACITOR 50V 0.01U	CH 1	
C3561	ECUM1H103ZFN	C.CAPACITOR 50V 0.01U	CH 1	
C3571	ECUM1H103ZFN	C.CAPACITOR 50V 0.01U	CH 1	
C3581	ECEA0JKA221	E.CAPACITOR 220U	6.3V 1	
C3582	ECUM1H103ZFN	C.CAPACITOR 50V 0.01U	CH 1	
C3583	ECA1AM331	E.CAPACITOR 330U	10V 1	
C3584	ECEA1CKA220	E.CAPACITOR 22U	16V 1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3585	ECALAM331	E.CAPACITOR 10V 330U	1	
C3586	ECEA1CKA220	E.CAPACITOR 16V 22U	1	
C4301	ECEA0JPZ470	E.CAPACITOR 6.3V 47U	1	
C4302	ECQB1H102JZ	P.CAPACITOR 50V 1000P	1	
C4303	ECQB1H101JZ	C.CAPACITOR 50V 100U	1	
C4305	ECEA0JPZ470	E.CAPACITOR 6.3V 47U	1	
C4306	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4307	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4308	ECA1APX221B	E.CAPACITOR 10V 220U	1	
C4309	ECA1APX221B	E.CAPACITOR 10V 220U	1	
C4311	ECEA0JPZ470	E.CAPACITOR 6.3V 47U	1	
C4312	ECQB1H102JZ	P.CAPACITOR 50V 1000P	1	
C4313	ECQB1H101JZ	C.CAPACITOR 50V 100U	1	
C4315	ECEA0JPZ470	E.CAPACITOR 6.3V 47U	1	
C4317	ECA0JXP102	E.CAPACITOR 6.3V 1000U	1	
C4318	ECA0JXP102	E.CAPACITOR 6.3V 1000U	1	
C4319	ECHR1H223JZ	P.CAPACITOR 50V 0.022U	1	
C4321	ECEA0JPZ470	E.CAPACITOR 6.3V 47U	1	
C4322	ECQB1H102JZ	P.CAPACITOR 50V 1000P	1	
C4323	ECQB1H101JZ	C.CAPACITOR 50V 100U	1	
C4325	ECEA0JPZ470	E.CAPACITOR 6.3V 47U	1	
C4331	ECEA0JPZ470	E.CAPACITOR 6.3V 47U	1	
C4332	ECQB1H102JZ	P.CAPACITOR 50V 1000P	1	
C4333	ECQB1H101JZ	C.CAPACITOR 50V 100U	1	
C4335	ECEA0JPZ470	E.CAPACITOR 6.3V 47U	1	
C4341	ECA1CAK100X	E.CAPACITOR 16V 10U	1	
C4342	ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C4343	ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C4345	ECA1CAK470X	E.CAPACITOR 16V 47U	1	
C4346	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4347	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4351	ECA1CAK100X	E.CAPACITOR 16V 10U	1	
C4352	ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C4353	ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C4355	ECA1CAK470X	E.CAPACITOR 16V 47U	1	
C4361	ECA1CAK100X	E.CAPACITOR 16V 10U	1	
C4362	ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C4363	ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C4365	ECA1CAK470X	E.CAPACITOR 16V 47U	1	
C4366	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C4367	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4368	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4369	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4371	ECA1CAK470X	E.CAPACITOR 16V 47U	1	
C4372	ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C4373	ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C4374	ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C4375	ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C4376	ECA1ANK470X	E.CAPACITOR 10V 47U	1	
C4501	ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C4511	ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C4521	ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C4531	ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C4541	ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C4551	ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C4561	ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C4571	ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C4581	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4582	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4584	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4585	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4592	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4751	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4752	ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C4753	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4754	ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C4755	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4761	ECUM1H271JCN	C.CAPACITOR CH 50V 270P	1	
C4763	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4764	ECEA1HKA4R7	E.CAPACITOR 50V 4.7U	1	
C4771	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4772	ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C4773	ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C4774	ECUM1H102ZFN	C.CAPACITOR CH 50V 1000P	1	
C4781	ECEA1HKA4R7	E.CAPACITOR 50V 4.7U	1	
C4782	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4901	VCEA1CJC470	E.CAPACITOR 16V 47U	1	
C4902	ECA1APX221B	E.CAPACITOR 10V 220U	1	
C4911	VCEA1EJC221	E.CAPACITOR 25V 220U	1	
C4912	VCEA1CJC470	E.CAPACITOR 16V 47U	1	



Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C4913	ECA1APX221B	E.CAPACITOR 10V 220U	1	
C6001	ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C6002	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C6003	ECEA1HKA100	E.CAPACITOR 50V 10U	1	
C6004	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C6005	ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C6007	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C6008	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6009	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6010	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6011	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6012	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C6013	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
D4596	MA3047M	ZENER DIODE	1	
D4901	AK04WS	DIODE	1	
D6013	LN28RCPL	DIODE	1	
DL6001	VSL0537	DISPLAY TUBE	1	
FL3501	ELB4H080B	FILTER	1	
FL3511	ELB4K164B	FILTER	1	
FL3561	ELB4L182B	FILTER	1	
FP6001	VJS3537A012G	CONNECTOR (FEMALE) 12P	1	
FP6002	VJS3537B005G	CONNECTOR (FEMALE) 5P	1	
IC2591	BA6956AN	IC	1	
IC3531	AN3581S	IC	1	
IC3581	BA7660FS	IC	1	
IC4301	NJM4580M	IC	1	
IC4321	NJM4580M	IC	1	
IC4341	NJM4580M	IC	1	
IC4361	NJM4580M	IC	1	
IC4362	NJM4580M	IC	1	
IC4751	AHCT1G08DBV	IC	1	
IC4752	AHCT1G08DBV	IC	1	
IC4781	GP1FA551TZ	IC	1	
IC4901	PQ09DZ1U	IC	1	
IC6001	MN101C35DCC	IC	1	
IC6002	PST9327UR	IC	1	
IC6003	PNA4611M02VT	IR RECEIVER UNIT	1	
IC6004	TC7ST08F	IC	1	
IC6005	TC7ST08F	IC	1	
JK3541	VJJ0544	Y/C CONNECTOR 1	1	
JK3591	VJJ0598	PIN JACK (3P)	1	
JK4501	VJJ0644	RCA JACK (6P)	1	
JK4502	VJJ0591	PIN JACK (4P)	1	
JK4771	VJJ0537-B	PIN JACK (1P)	1	
K4753	ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K6001	ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K6005	ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K6010	ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
L3501	ELESN220JA		1	
L3531	ELESN220JA		1	
L3532	ELESN220JA		1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
L3551	ELESN220JA		1	
L3581	VLQEL05S220J	COIL 22UH	1	
L4301	ELESE390JA	INDUCTOR 39UH	1	
L4761	ELJNDR10JF	COIL	1	
L4781	ELESN220JA		1	
L6001	VLQEL05S101J	COIL 100UH	1	
L6002	VLQEL05S221J	COIL 220UH	1	
LB3543	VLP0145	COIL	1	
LB3544	VLP0145	COIL	1	
LB3545	VLP0145	COIL	1	
LB3546	VLP0145	COIL	1	
LB3591	VLP0145	COIL	1	
LB3592	VLP0145	COIL	1	
LB3593	VLP0145	COIL	1	
LB4501	VLP0145	COIL	1	
LB4511	VLP0145	COIL	1	
LB4521	VLP0145	COIL	1	
LB4531	VLP0145	COIL	1	
LB4541	VLP0145	COIL	1	
LB4551	VLP0145	COIL	1	
LB4561	VLP0145	COIL	1	
LB4571	VLP0145	COIL	1	
LB4771	VLFI148A121	CHIP BEAD	1	
LB4772	VLFI148A121	CHIP BEAD	1	
LB6001	VLP0153	COIL	1	
LB6002	VLP0153	COIL	1	
LB6003	VLP0153	COIL	1	
LB6004	VLP0153	COIL	1	
LB6005	VLP0153	COIL	1	
LB6006	VLP0153	COIL	1	
LB6007	VLP0153	COIL	1	
LB6008	VLP0153	COIL	1	
LB6009	VLP0153	COIL	1	
LB6010	VLP0153	COIL	1	
PP1101	VJP4223E018B	CONNECTOR (MALE) 18P	1	
PP2591	VJP4366A005B	CONNECTOR (MALE) 5P	1	
PP3201	VJP4370E022B	CONNECTOR (MALE) 22P	1	
PP4201	VJP4369A026B	CONNECTOR (MALE) 26P	1	
PR4911	VSF0015A10	FUSE	1	
Q3501	2SB709A	TRANSISTOR	1	
Q3502	2SD601A	TRANSISTOR	1	
Q3503	2SB709A	TRANSISTOR	1	
Q3511	2SB709A	TRANSISTOR	1	
Q3512	2SD601A	TRANSISTOR	1	
Q3513	2SB709A	TRANSISTOR	1	
Q3561	2SD601A	TRANSISTOR	1	
Q3571	2SD601A	TRANSISTOR	1	
Q4501	2SD1328	TRANSISTOR	1	
Q4511	2SD1328	TRANSISTOR	1	
Q4521	2SD1328	TRANSISTOR	1	
Q4531	2SD1328	TRANSISTOR	1	
Q4541	2SD601A	TRANSISTOR	1	
Q4551	2SD601A	TRANSISTOR	1	
Q4561	2SD601A	TRANSISTOR	1	
Q4571	2SD601A	TRANSISTOR	1	
Q4901	2SB709A	TRANSISTOR	1	
Q4911	2SB1434R	TRANSISTOR	1	
Q4912	2SB1320A-R	TRANSISTOR	1	
Q4913	2SD601A	TRANSISTOR	1	
QR3521	UN2212	TRANSISTOR-RESISTOR	1	
QR4593	UN2211	TRANSISTOR	1	
QR4594	UN2111	TRANSISTOR	1	
QR4596	UN2111	TRANSISTOR	1	
QR6009	DTA123JK	TRANSISTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
QR6010	DTA123JK	TRANSISTOR	1	
QR6011	DTA123JK	TRANSISTOR	1	
R2591	ERJ6GMYJ473	M.RESISTOR 1/10W 47K	CH 1	
R2592	ERJ6GMYJ473	M.RESISTOR 1/10W 47K	CH 1	
R2593	ERJ6GMYJ103	M.RESISTOR 1/10W 10K	CH 1	
R2594	ERJ6GMYJ333	M.RESISTOR 1/10W 33K	CH 1	
R3501	ERJ6GMYJ561	M.RESISTOR 1/10W 560	CH 1	
R3502	ERJ6GMYJ103	M.RESISTOR 1/10W 10K	CH 1	
R3503	ERJ6GMYJ101	M.RESISTOR 1/10W 100	CH 1	
R3504	ERJ6GMYJ222	M.RESISTOR 1/10W 2.2K	CH 1	
R3505	ERJ6GMYJ330	M.RESISTOR 1/10W 33	CH 1	
R3506	ERJ6GMYJ182	M.RESISTOR 1/10W 1.8K	CH 1	
R3507	ERJ6GMYJ330	M.RESISTOR 1/10W 33	CH 1	
R3508	ERJ6GMYJ222	M.RESISTOR 1/10W 2.2K	CH 1	
R3511	ERJ6GMYJ561	M.RESISTOR 1/10W 560	CH 1	
R3512	ERJ6GMYJ272	M.RESISTOR 1/10W 2.7K	CH 1	
R3513	ERJ6GMYJ223	M.RESISTOR 1/10W 22K	CH 1	
R3514	ERJ6GMYJ223	M.RESISTOR 1/10W 22K	CH 1	
R3515	ERJ6GMYJ222	M.RESISTOR 1/10W 2.2K	CH 1	
R3516	ERJ6GMYJ330	M.RESISTOR 1/10W 33	CH 1	
R3517	ERJ6GMYJ331	M.RESISTOR 1/10W 330	CH 1	
R3518	ERJ6GMYJ330	M.RESISTOR 1/10W 33	CH 1	
R3519	ERJ6GMYJ222	M.RESISTOR 1/10W 2.2K	CH 1	
R3521	ERJ6GMYJ222	M.RESISTOR 1/10W 2.2K	CH 1	
R3526	ERJ6GMYJ103	M.RESISTOR 1/10W 10K	CH 1	
R3531	ERJ6GMYG102	M.RESISTOR 1/10W 1K	CH 1	
R3532	ERJ6GMYG102	M.RESISTOR 1/10W 1K	CH 1	
R3533	ERJ6GMYG102	M.RESISTOR 1/10W 1K	CH 1	
R3534	ERJ6GMYG471	M.RESISTOR 1/10W 470	CH 1	
R3535	ERJ6GMYJ103	M.RESISTOR 1/10W 10K	CH 1	
R3543	ERJ6ENF71R5	M.RESISTOR 1/10W 71.5	CH 1	
R3544	ERJ6ENF71R5	M.RESISTOR 1/10W 71.5	CH 1	
R3545	ERJ6ENF75R0	M.RESISTOR 1/10W 75	CH 1	
R3546	ERJ6ENF75R0	M.RESISTOR 1/10W 75	CH 1	
R3561	ERJ6GMYJ561	M.RESISTOR 1/10W 560	CH 1	
R3562	ERJ6GMYJ183	M.RESISTOR 1/10W 18K	CH 1	
R3563	ERJ6GMYJ471	M.RESISTOR 1/10W 470	CH 1	
R3564	ERJ6GMYJ223	M.RESISTOR 1/10W 22K	CH 1	
R3565	ERJ6GMYJ331	M.RESISTOR 1/10W 330	CH 1	
R3571	ERJ6GMYJ561	M.RESISTOR 1/10W 560	CH 1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3572	ERJ6GMYJ183	M.RESISTOR 1/10W 18K	CH 1	
R3573	ERJ6GMYJ471	M.RESISTOR 1/10W 470	CH 1	
R3574	ERJ6GMYJ223	M.RESISTOR 1/10W 22K	CH 1	
R3575	ERJ6GMYJ331	M.RESISTOR 1/10W 330	CH 1	
R3591	ERJ6ENF71R5	M.RESISTOR 1/10W 71.5	CH 1	
R3592	ERJ6ENF75R0	M.RESISTOR 1/10W 75	CH 1	
R3593	ERJ6ENF75R0	M.RESISTOR 1/10W 75	CH 1	
R4301	ERJ6GMYJ104	M.RESISTOR 1/10W 100K	CH 1	
R4302	ERJ6GMYJ392	M.RESISTOR 1/10W 3.9K	CH 1	
R4303	ERJ6GMYJ103	M.RESISTOR 1/10W 10K	CH 1	
R4304	ERJ6GMYJ822	M.RESISTOR 1/10W 8.2K	CH 1	
R4307	ERJ6GMYJ473	M.RESISTOR 1/10W 47K	CH 1	
R4311	ERJ6GMYJ104	M.RESISTOR 1/10W 100K	CH 1	
R4312	ERJ6GMYJ392	M.RESISTOR 1/10W 3.9K	CH 1	
R4313	ERJ6GMYJ103	M.RESISTOR 1/10W 10K	CH 1	
R4314	ERJ6GMYJ822	M.RESISTOR 1/10W 8.2K	CH 1	
R4317	ERJ6GMYJ473	M.RESISTOR 1/10W 47K	CH 1	
R4321	ERJ6GMYJ104	M.RESISTOR 1/10W 100K	CH 1	
R4322	ERA6YED392	M.RESISTOR 1/10W 3.9K	CH 1	
R4323	ERA6YED103	M.RESISTOR 1/10W 10K	CH 1	
R4324	ERA6YED822	M.RESISTOR 1/10W 8.2K	CH 1	
R4327	ERJ6GMYJ473	M.RESISTOR 1/10W 47K	CH 1	
R4331	ERJ6GMYJ104	M.RESISTOR 1/10W 100K	CH 1	
R4332	ERA6YED392	M.RESISTOR 1/10W 3.9K	CH 1	
R4333	ERA6YED103	M.RESISTOR 1/10W 10K	CH 1	
R4334	ERA6YED822	M.RESISTOR 1/10W 8.2K	CH 1	
R4337	ERJ6GMYJ473	M.RESISTOR 1/10W 47K	CH 1	
R4341	ERJ6GMYJ104	M.RESISTOR 1/10W 100K	CH 1	
R4342	ERJ6GMYJ302	M.RESISTOR 1/10W 3K	CH 1	
R4343	ERJ6GMYJ103	M.RESISTOR 1/10W 10K	CH 1	
R4344	ERJ6GMYJ123	M.RESISTOR 1/10W 12K	CH 1	
R4347	ERJ6GMYJ473	M.RESISTOR 1/10W 47K	CH 1	
R4351	ERJ6GMYJ104	M.RESISTOR 1/10W 100K	CH 1	
R4352	ERJ6GMYJ302	M.RESISTOR 1/10W 3K	CH 1	
R4353	ERJ6GMYJ103	M.RESISTOR 1/10W 10K	CH 1	
R4354	ERJ6GMYJ123	M.RESISTOR 1/10W 12K	CH 1	
R4357	ERJ6GMYJ473	M.RESISTOR 1/10W 47K	CH 1	
R4361	ERJ6GMYJ104	M.RESISTOR 1/10W 100K	CH 1	
R4362	ERJ6GMYJ302	M.RESISTOR 1/10W 3K	CH 1	
R4363	ERJ6GMYJ103	M.RESISTOR 1/10W 10K	CH 1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R4364	ERJ6GMYJ123	M.RESISTOR 1/10W 12K	CH 1	
R4367	ERJ6GMYJ473	M.RESISTOR 1/10W 47K	CH 1	
R4371	ERJ6GMYJ104	M.RESISTOR 1/10W 100K	CH 1	
R4372	ERJ6GMYJ472	M.RESISTOR 1/10W 4.7K	CH 1	
R4373	ERJ6GMYJ472	M.RESISTOR 1/10W 4.7K	CH 1	
R4374	ERJ6GMYJ362	M.RESISTOR 1/10W 3.6K	CH 1	
R4375	ERJ6GMYJ332	M.RESISTOR 1/10W 3.3K	CH 1	
R4376	ERJ6RBD153	M.RESISTOR 1/10W 15K	CH 1	
R4377	ERJ6GMYJ563	M.RESISTOR 1/10W 56K	CH 1	
R4378	ERJ6GMYJ473	M.RESISTOR 1/10W 47K	CH 1	
R4501	ERJ6GMYJ821	M.RESISTOR 1/10W 820	CH 1	
R4502	ERJ6GMYJ221	M.RESISTOR 1/10W 220	CH 1	
R4503	ERJ6GMYJ821	M.RESISTOR 1/10W 820	CH 1	
R4511	ERJ6GMYJ821	M.RESISTOR 1/10W 820	CH 1	
R4512	ERJ6GMYJ221	M.RESISTOR 1/10W 220	CH 1	
R4513	ERJ6GMYJ821	M.RESISTOR 1/10W 820	CH 1	
R4521	ERJ6GMYJ821	M.RESISTOR 1/10W 820	CH 1	
R4522	ERJ6GMYJ221	M.RESISTOR 1/10W 220	CH 1	
R4523	ERJ6GMYJ821	M.RESISTOR 1/10W 820	CH 1	
R4531	ERJ6GMYJ821	M.RESISTOR 1/10W 820	CH 1	
R4532	ERJ6GMYJ221	M.RESISTOR 1/10W 220	CH 1	
R4533	ERJ6GMYJ821	M.RESISTOR 1/10W 820	CH 1	
R4541	ERJ6GMYJ821	M.RESISTOR 1/10W 820	CH 1	
R4542	ERJ6GMYJ221	M.RESISTOR 1/10W 220	CH 1	
R4543	ERJ6GMYJ821	M.RESISTOR 1/10W 820	CH 1	
R4551	ERJ6GMYJ821	M.RESISTOR 1/10W 820	CH 1	
R4552	ERJ6GMYJ221	M.RESISTOR 1/10W 220	CH 1	
R4553	ERJ6GMYJ821	M.RESISTOR 1/10W 820	CH 1	
R4561	ERJ6GMYJ821	M.RESISTOR 1/10W 820	CH 1	
R4562	ERJ6GMYJ221	M.RESISTOR 1/10W 220	CH 1	
R4563	ERJ6GMYJ821	M.RESISTOR 1/10W 820	CH 1	
R4571	ERJ6GMYJ821	M.RESISTOR 1/10W 820	CH 1	
R4572	ERJ6GMYJ221	M.RESISTOR 1/10W 220	CH 1	
R4573	ERJ6GMYJ821	M.RESISTOR 1/10W 820	CH 1	
R4590	ERJ6GMYJ102	M.RESISTOR 1/10W 1K	CH 1	
R4594	ERJ8GEYJ102	M.RESISTOR 1/8W 1K	CH 1	
R4596	ERJ6GMYJ223	M.RESISTOR 1/10W 22K	CH 1	
R4598	ERJ6GMYJ331	M.RESISTOR 1/10W 330	CH 1	
R4599	ERJ6GMYJ681	M.RESISTOR 1/10W 680	CH 1	
R4600	ERJ6GMYJ221	M.RESISTOR 1/10W 220	CH 1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R4754	ERJ6GMYJ221	M.RESISTOR 1/10W 220	CH 1	
R4761	ERJ6GMYJ220	M.RESISTOR 1/10W 22	CH 1	
R4771	ERJ6GMYJ750	M.RESISTOR 1/10W 75	CH 1	
R4901	ERJ6RBD822	M.RESISTOR 1/10W 8.2K	CH 1	
R4902	ERJ6RBD152	M.RESISTOR 1/10W 1.5K	CH 1	
R4903	ERJ6GMYJ333	M.RESISTOR 1/10W 33K	CH 1	
R4911	ERJ6RBD822	M.RESISTOR 1/10W 8.2K	CH 1	
R4912	ERJ6GMYJ331	M.RESISTOR 1/10W 330	CH 1	
R4913	ERJ6GMYJ103	M.RESISTOR 1/10W 10K	CH 1	
R6001	ERJ6GMYJ221	M.RESISTOR 1/10W 220	CH 1	
R6002	ERJ6GMYJ221	M.RESISTOR 1/10W 220	CH 1	
R6003	ERJ6GMYJ221	M.RESISTOR 1/10W 220	CH 1	
R6004	ERJ6GMZ0R00	M.RESISTOR 1/10W 0	CH 1	
R6010	ERJ6GMYJ473	M.RESISTOR 1/10W 47K	CH 1	
R6011	ERJ6GMYJ473	M.RESISTOR 1/10W 47K	CH 1	
R6012	ERJ6GMYJ473	M.RESISTOR 1/10W 47K	CH 1	
R6013	ERJ6GMYJ473	M.RESISTOR 1/10W 47K	CH 1	
R6014	ERJ6GMYJ473	M.RESISTOR 1/10W 47K	CH 1	
R6015	ERJ6GMYJ473	M.RESISTOR 1/10W 47K	CH 1	
R6016	ERJ6GMYJ473	M.RESISTOR 1/10W 47K	CH 1	
R6017	ERJ6GMYJ473	M.RESISTOR 1/10W 47K	CH 1	
R6018	ERJ6GMYJ473	M.RESISTOR 1/10W 47K	CH 1	
R6019	ERJ6GMYJ473	M.RESISTOR 1/10W 47K	CH 1	
R6020	ERJ6GMYJ103	M.RESISTOR 1/10W 10K	CH 1	
R6021	ERJ6GMYJ103	M.RESISTOR 1/10W 10K	CH 1	
R6022	ERJ6GMYJ103	M.RESISTOR 1/10W 10K	CH 1	
R6023	ERJ6GMYJ473	M.RESISTOR 1/10W 47K	CH 1	
R6024	ERJ6GMYJ473	M.RESISTOR 1/10W 47K	CH 1	
R6025	ERJ6GMYJ473	M.RESISTOR 1/10W 47K	CH 1	
R6026	ERJ6GMYJ473	M.RESISTOR 1/10W 47K	CH 1	
R6027	ERJ6GMYJ221	M.RESISTOR 1/10W 220	CH 1	
R6028	ERJ6GMYJ221	M.RESISTOR 1/10W 220	CH 1	
R6029	ERJ6GMYJ221	M.RESISTOR 1/10W 220	CH 1	
R6030	ERJ6GMYJ221	M.RESISTOR 1/10W 220	CH 1	
R6031	ERJ6GMYJ104	M.RESISTOR 1/10W 100K	CH 1	
R6032	ERJ6GMYJ104	M.RESISTOR 1/10W 100K	CH 1	
R6033	ERJ6GMYJ104	M.RESISTOR 1/10W 100K	CH 1	
R6034	ERJ6GMYJ104	M.RESISTOR 1/10W 100K	CH 1	
R6035	ERJ6GMYJ104	M.RESISTOR 1/10W 100K	CH 1	
R6038	ERJ6GMYJ221	M.RESISTOR 1/10W 220	CH 1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6041	ERJ6GMYJ821	M.RESISTOR 1/10W 820	CH 1	
R6044	ERJ6GMYJ821	M.RESISTOR 1/10W 820	CH 1	
R6047	ERJ6GMYJ821	M.RESISTOR 1/10W 820	CH 1	
T4761	VLQ0790	TRANSFORMER	1	△
VR3501	EVNCYAA03B13	TRIMMER POTENTIOMETER	1	
VR3511	EVNCYAA03B13	TRIMMER POTENTIOMETER	1	
W801	ERJ6GMZ0R00	M.RESISTOR 1/10W 0	CH 1	
W802	ERJ6GMZ0R00	M.RESISTOR 1/10W 0	CH 1	
W803	ERJ6GMZ0R00	M.RESISTOR 1/10W 0	CH 1	
W804	ERJ6GMZ0R00	M.RESISTOR 1/10W 0	CH 1	
W805	ERJ6GMZ0R00	M.RESISTOR 1/10W 0	CH 1	
W806	ERJ6GMZ0R00	M.RESISTOR 1/10W 0	CH 1	
W807	ERJ6GMZ0R00	M.RESISTOR 1/10W 0	CH 1	
W808	ERJ6GMZ0R00	M.RESISTOR 1/10W 0	CH 1	
W809	ERJ6GMZ0R00	M.RESISTOR 1/10W 0	CH 1	
W810	ERJ6GMZ0R00	M.RESISTOR 1/10W 0	CH 1	
X6001	EF0EC8004A4	CERAMIC OSCILLATOR	1	
ZA3501	VJR0978	EARTH ANGLE	1	
ZA4201	VJR0978	EARTH ANGLE	1	
ZA4751	VJR0978	EARTH ANGLE	1	
ZA4752	VMC1446	EARTH SPRING	1	
ZA6001	VJR0978	EARTH ANGLE	1	
		MISCELLANEOUS		
	VYQ1654	FL HOLDER UNIT	1	
■	VEP91251A	POWER SUPPLY P.C.B.	1	(RTL) △
C1001	VCF0183M104	POLYESTER FILM CAPACITOR	1	△
C1002	VCF0183M104	POLYESTER FILM CAPACITOR	1	△
C1003	ECKMNA471MBV	C.CAPACITOR 470P	1	△
C1004	ECKMNA471MBV	C.CAPACITOR 470P	1	△
C1005	ECKMNA102MEV	C.CAPACITOR 1000P	1	△
C1013	ECEC2GG680	E.CAPACITOR 400V 68U	1	
C1031	ECKD2H103PU	C.CAPACITOR 500V 0.01U	1	
C1032	ECCZ3A121KGE	C.CAPACITOR 1KV 120P	1	
C1041	VCEA1VJC470	E.CAPACITOR 35V 47U	1	
C1051	ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C1061	ECKF1H102KB	C.CAPACITOR 50V 1000P	1	
C1062	VCEA0JJC331	E.CAPACITOR 6.3V 330U	1	
C1101	ECQV1H104JL	P.CAPACITOR 50V 0.1U	1	
C1111	VCEA1AJH182	E.CAPACITOR 10V 1800U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C1112	VCEA1AJH182	E.CAPACITOR 10V 1800U	1	
C1114	VCEA1AJC222	E.CAPACITOR 10V 2200U	1	
C1115	ECFR1E104ZF5	C.CAPASITOR 25V 0.1U	1	
C1116	VCEA1AJC221	E.CAPACITOR 10V 220U	1	
C1117	ECA1APX221B	E.CAPACITOR 10V 220U	1	
C1121	ECA0JM102	E.CAPACITOR 6.3V 1000U	1	
C1131	VCEA1VJH151	E.CAPACITOR 35V 150U	1	
C1133	VCEA1EJC330	E.CAPACITOR 25V 33U	1	
C1141	VCEA1VJH151	E.CAPACITOR 35V 150U	1	
C1143	VCEA1EJC330	E.CAPACITOR 25V 33U	1	
C1151	VCEA1EJH271	E.CAPACITOR 25V 270U	1	
C1153	VCEA1EJC221	E.CAPACITOR 25V 220U	1	
C1154	VCEA1CJC221	E.CAPACITOR 16V 220U	1	
C1161	VCEA1HJH560	E.CAPACITOR 50V 56U	1	
C1171	VCEA1AJH181	E.CAPACITOR 10V 180U	1	
D1002	ENC471D5ATR	DIODE	1	△
D1011	SLWBA80	DIODE	1	△
D1022	RD100E	ZENER DIODE	1	
D1031	AP01C	DIODE	1	△
D1041	AU01Z	DIODE	1	
D1042	MA7300B	DIODE	1	
D1051	MA165	DIODE	1	
D1052	MA165	DIODE	1	
D1061	MA700	DIODE	1	
D1062	MA4200H	DIODE	1	
D1111	MA7D55	DIODE	1	
D1126	11ES1	DIODE	1	
D1131	11EQS10	DIODE	1	
D1141	11EQS10	DIODE	1	
D1151	11EQS10	DIODE	1	
D1152	11EQS10	DIODE	1	
D1161	AU01Z	DIODE	1	
D1162	MA4030	DIODE	1	
D1171	AK04	DIODE	1	
F1001	XBA2C16TB0	FUSE	1	△
IC1021	STRM6559LF	IC	1	
IC1101	UPC1093J	IC	1	
IC1125	PQ07RX11	IC	1	
IC1151	SI-3090FLF11	IC	1	
L1001	ELF15N005A	NOISE FILTER	1	△
L1002	ELF15N005A	NOISE FILTER	1	△
L1111	VLQ0611K100	COIL 10UH	1	
L1112	ELELN100KA	INDUCTOR 10UH	1	
L1131	VLQEL05S330K	COIL 33UH	1	
L1141	VLQEL05S330K	COIL 33UH	1	
L1151	VLQ0611K220	COIL 22UH	1	
LB1021	VLP0056	COIL	1	
LB1022	VLP0083	COIL	1	
LB1031	VLP0083	COIL	1	
P1001	SJS9236	AC INLET	1	△
PR1161	VSF0015A025	IC PROTECTOR	1	△
PR1171	VSF0015A10	FUSE	1	△

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
PS1101	VJS4223A018	CONNECTOR (FEMALE) 18P	1	
Q1051	PS2561L1	PHOTO COUPLER	1	△
Q1111	2SJ525	TRANSISTOR	1	
QR1111	UN4213	TRANSISTOR	1	
R1002	ERC12AGM334	S.RESISTOR 1/2W 330K	1	△
R1021	ERX1SJR82	M.RESISTOR 1W 0.82	1	
R1022	ERDS2FJ471	C.RESISTOR 1/4W 470	1	
R1023	ERDS2FJ471	C.RESISTOR 1/4W 470	1	
R1031	ERG1SJJ393	M.RESISTOR 1W 39K	1	
R1041	ERDS2FJ224	C.RESISTOR 1/4W 220K	1	
R1042	ERDS2FJ224	C.RESISTOR 1/4W 220K	1	
R1043	ERG12SJJ100	M.RESISTOR 1/2W 10	1	
R1044	ERDS1TJ395	C.RESISTOR 1/2W 3.9M	1	
R1045	ERDS1TJ475	C.RESISTOR 1/2W 4.7M	1	
R1051	ERDS2FJ182	C.RESISTOR 1/4W 1.8K	1	
R1061	ERDS2FJ152	C.RESISTOR 1/4W 1.5K	1	
R1062	ERDS2FJ101	C.RESISTOR 1/4W 100	1	
R1063	ERDS2FJ224	C.RESISTOR 1/4W 220K	1	
R1064	ERDS2FJ103	C.RESISTOR 1/4W 10K	1	
R1101	ERDS2TJ750	C.RESISTOR 1/4W 75	1	
R1102	ER0S2CKF1201	M.RESISTOR 1/4W 1.2K	1	
R1103	ER0S2CKF1201	M.RESISTOR 1/4W 1.2K	1	
R1104	ERDS2TJ561	C.RESISTOR 1/4W 560	1	
R1105	ERDS2TJ271	C.RESISTOR 1/4W 270	1	
R1106	ERDS2TJ202	C.RESISTOR 1/4W 2K	1	
R1111	ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R1112	ERDS2TJ104	C.RESISTOR 1/4W 100K	1	
R1113	ERDS2TJ241	C.RESISTOR 1/4W 240	1	
R1114	ERDS2TJ241	C.RESISTOR 1/4W 240	1	
R1125	ERDS2TJ101	C.RESISTOR 1/4W 100	1	
R1126	ER0S2CKF1201	M.RESISTOR 1/4W 1.2K	1	
R1127	ER0S2CKF1201	M.RESISTOR 1/4W 1.2K	1	
R1161	ERDS2TJ104	C.RESISTOR 1/4W 100K	1	
R1181	ERDS2TJ101	C.RESISTOR 1/4W 100	1	
T1021	ETS29AD4H6AC	TRANSFORMER	1	△
ZA1001	EYF52BC	FUSE HOLDER	1	△
ZA1002	EYF52BC	FUSE HOLDER	1	△
ZA1111	VJR0978	EARTH ANGLE	1	
ZA1125	VSC5095	HEAT SINK	1	
■	VEP96587A	FRONT SWITCH P.C.B.	1	(RTL)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D6401	LNJ301MPUJAD	LED (GREEN)	1	
D6402	LNJ401NPYJA	LED (AMBER)	1	
FP6401	VJS3537B012G	CONNECTOR (FEMALE) 12P	1	
R6401	ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R6402	ERDS2TJ122	C.RESISTOR 1/4W 1.2K	1	
R6403	ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R6404	ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R6405	ERDS2TJ122	C.RESISTOR 1/4W 1.2K	1	
R6406	ERDS2TJ152	C.RESISTOR 1/4W 1.5K	1	
S6401	EVQ11G07K	SWITCH	1	
S6402	EVQ11G07K	SWITCH	1	
S6403	EVQ11G07K	SWITCH	1	
S6404	EVQ11G07K	SWITCH	1	
S6405	EVQ11G07K	SWITCH	1	
S6406	EVQ11G07K	SWITCH	1	
S6407	EVQ11G07K	SWITCH	1	
S6408	EVQ11G07K	SWITCH	1	
S6409	ESE24SH7	SWITCH	1	
S6410	ESE24SH7	SWITCH	1	
		MISCELLANEOUS		
	VWJ1406	FLAT CARD CABLE	1	
■	VEP96588A	POWER SWITCH P.C.B.	1	(RTL)
FP6411	VJS3537B005G	CONNECTOR (FEMALE) 5P	1	
S6411	EVQ11G07K	SWITCH	1	
		MISCELLANEOUS		
	VWJ1439	FLAT CARD CABLE	1	
■		LOADING P.C.B.	1	
PS2591	VJS4366A005B	CONNECTOR (MALE) 5P	1	

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