

**SONY**<sup>®</sup>

HD ELECTRONIC VIEWFINDER

**HDVF-C950W**

OUTDOOR HOOD  
**VFH-990**

MAINTENANCE MANUAL

1st Edition

Serial No. 100001 and Higher

## **⚠ 警告**

このマニュアルは、サービス専用です。  
お客様が、このマニュアルに記載された設置や保守、点検、修理などを行うと感電や火災、人身事故につながる可能性があります。  
危険をさけるため、サービストレーニングを受けた技術者のみご使用ください。

## **⚠ WARNING**

This manual is intended for qualified service personnel only.  
To reduce the risk of electric shock, fire or injury, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so. Refer all servicing to qualified service personnel.

## **⚠ WARNUNG**

Die Anleitung ist nur für qualifiziertes Fachpersonal bestimmt.  
Alle Wartungsarbeiten dürfen nur von qualifiziertem Fachpersonal ausgeführt werden. Um die Gefahr eines elektrischen Schlages, Feuergefahr und Verletzungen zu vermeiden, sind bei Wartungsarbeiten strikt die Angaben in der Anleitung zu befolgen. Andere als die angegeben Wartungsarbeiten dürfen nur von Personen ausgeführt werden, die eine spezielle Befähigung dazu besitzen.

## **⚠ AVERTISSEMENT**

Ce manuel est destiné uniquement aux personnes compétentes en charge de l'entretien. Afin de réduire les risques de décharge électrique, d'incendie ou de blessure n'effectuer que les réparations indiquées dans le mode d'emploi à moins d'être qualifié pour en effectuer d'autres. Pour toute réparation faire appel à une personne compétente uniquement.

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# Manual Structure

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## Purpose of this manual

This manual is the maintenance manual for HD Electronic Viewfinder HDVF-C950W. This manual describes the information items necessary when the unit is supplied and installed, items that premise the service based on the components parts such as service overview, electrical alignment, spare parts lists, block diagram and schematic diagrams, assuming use of system and service engineers.

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## Relative manual

Besides this maintenance manual the following manual is available for this unit.

- **Operation Manual (supplied with this unit)**

This manual is necessary for application and operation of this unit.

- **“Semiconductor Pin Assignments” CD-ROM (Available on request)**

This “Semiconductor Pin Assignments” CD-ROM allows you to search for semiconductors used in Broadcast and Professional equipment.

The maintenance manual contains a complete list of semiconductors and their ID Nos., and thus should be used together with the CD-ROM.

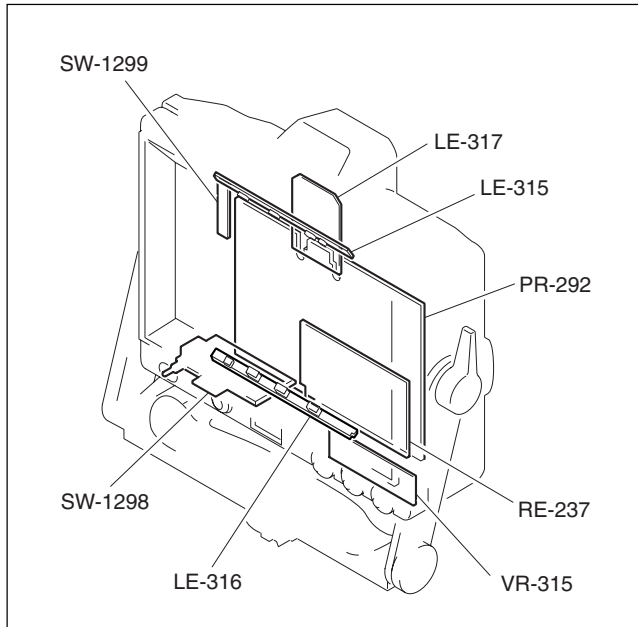
Part number: 9-968-546-0X



# Section 1

## Service Overview

### 1-1. Board Layout



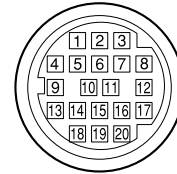
### 1-2. Matching Connectors and Cables

Use the included VF connection cable when connecting to the camera for installation or servicing.

#### 1-2-1. Cable Input/Output Signals

The VF connection cable input/output signals are as follows.

- CAMERA (20-pin Male)



(External view)

No.	Signal	I/O	Specifications
1	S-DATA	IN/OUT	TTL level
2	NC		No connection
3	POWER OFF	IN	ON : OPEN OFF : GND
4	SCK	IN	TTL level
5	COLOR/MONO	OUT	MONO : GND COLOR : OPEN
6	NC		No connection
7	NC		No connection
8	G TALLY	IN	ON : +5 V OFF : GND
9	PEAKING CTL	OUT	0 V to +5 V 0 V : PEAKING OFF +5 V : PEAKING MAX
10	NC		No connection
11	NC		No connection
12	Y VIDEO	IN	1.0 Vp-p, Zi=75 Ω
13	VIDEO GND	–	GND for VIDEO
14	Pb VIDEO	IN	0.7 Vp-p, Zi=75 Ω
15	Pr VIDEO	IN	0.7 Vp-p, Zi=75 Ω
16	NC		No connection
17	R TALLY	IN	ON : +5 V OFF : GND
18	NC		No connection
19	UNREG GND	–	GND for UNREG
20	UNREG	IN	+10.5 V to 17 V





## 1-3. Circuit Overview

### PR-292 board

The PR-292 board consists of the video amplifier circuit, A/D conversion circuit, video processing circuit, clock generation circuit, tally control circuit, and micro computer. The analog HD Y/Pb/Pr signal input from CN1 passes through the pre-filter (FL200-202) and the video amplifier before it is converted into a 74 Msps rate, 10 bit digital signal with the A/D converter (IC214-216). It then passes through FPGA (IC300) before finally being input to the video processing IC (IC400).

In FPGA, PLL is added to the sync signal generated in the sync separation circuit and HD/VD is output.

In addition, the parameter settings for video processing IC and clock generation IC (IC306) are configured, the internal test signal is generated, and IIC communication is performed with the connected camera.

The video processing IC converts the input HD Y/Pb/Pr digital signal into a WVGA RGB digital signal and outputs that signal. Brightness and contrast settings are also performed.

The RGB digital signal is entered into FPGA again where peaking processing and knee correction processing are performed before the signal is converted into an 8 bit digital signal. The video signal is superimposed on the OSD signal and indicator display, and then the signal is output to the LVDS transmitter circuit (IC700).

The LVDS transmitter converts 8 bit RGB digital signals and sync signals into LVDS signals and outputs them to CN5.

CPU (IC600) performs parallel communication with FPGA, controls the character generator (IC601) and D/A converter (IC614), and performs IIC communication with the panel module.

The A/D input port connects to the signal wires for brightness, contrast, peaking, and volume level and controls these parameters.

The D/A converter controls the dimmer for the external tally lamp and the voltage for the backlight power supply. IIC communication with the panel module controls PWM modulated light for the backlight and the black insertion rate.

Data such as luminance and color temperature adjustment data are saved on EEPROM (IC606) on the board.

FPGA can be upgraded for E-Production through CN14. (Refer to Section 1-5-2.)

### RE-237 board

The voltage comparison circuit (IC2) supplies power to each control IC (IC3, IC6, IC7) when the input voltage falls within the appropriate range.

The power supply turns on when the input voltage is within the range of +9.8 V to +19.0 V. After the power supply turns on, it continues to operate until the input voltage falls below the lower limit (+7.5 V).

Each output is connected to a short-circuit detection circuit. If any of the outputs are short-circuited or if a signal is not output due to some error, the short-circuit detection circuit outputs the H SHUT DOWN signal. This signal causes the supplied UNREG +12 V to be cut off at the source.

+5 V, +3.3 V, and +1.8 V use a step-down chopper circuit, and -5 V uses an inverse chopper circuit.

+12 V uses a rising and falling voltage circuit and can control output voltage in a range of +10.0 V to +13.5 V with the control voltage (BRIGHT ADJ) from the PR-292 board.

## 1-4. List of Tools, Used Equipment, and Adjustment Equipment

### Tools

No.	Part No.	Name	Usage
①	A-1239-470-A	PR/RE extension assembly	RE-237 board extension
①-A	1-832-098-11	Flexible card wire (30p, 150 mm)	Refer to Section 1-8.
②	J-7120-140-A	Data download cable	PLD data download
③	J-6352-400-A	Torque screwdriver (3 kgf·cm)	Panel module mounting
③-A		Torque screwdriver bit (M2.6)	

### Used equipment

Used equipment	Model name
HDVS camera	HDC-1500 series or HDW-F900R

### Adjustment equipment

Adjustment equipment	Model name
Display color analyzer	Konica Minolta sensing CA-210 or equivalent
Digital voltmeter	Advantest TR6845 or equivalent

## 1-5. Firmware and Software

### Note

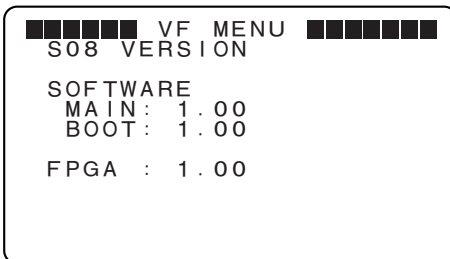
Do not version down the ROM. The equipment may stop working correctly.

The PR-292 board on the unit is equipped with the ROMs.

Board	Ref. No.	Address
PR-292	IC305	D2/A side
	IC314	D2/A side
	IC600	C3/A side

### 1-5-1. Checking the ROM and Software Version

1. Display the TOP menu.  
Refer to “2-2. TOP Menu”.
2. Display the VERSION screen in the SERVICE menu.



3. Check the ROM version.

### 1-5-2. Writing and Rewriting PLD Internal Data

The device is equipped with a PLD (Programmable Logic Device) that can be written and rewritten using the e-Production (EPR) method.

When replacing the following parts or upgrading the PLD version, contact your local Sony Sales Office/Service Center.

### Note

The part number of the PLD (or the ROM for the PLD) noted in “Spare Parts” is for a part with no data written. When you need to replace any part, write data using the steps on the next page.

For a PLD that has a program operating on the externally connected ROM, when a part in the PLD is defective, if you replace only the defective part, you do not have to rewrite the data.

### About e-Production

- When writing or rewriting the PLD internal data,
  1. Standard tools (cables) can be used.
  2. Standard software (PLD Download Tool) can be used.
- The PLD internal data is managed on the Sony database server as a Project file (E\_XXX\_XXX\_XX\_XX).
- The standard connector (EPR connector) for writing PLD internal data on the board is equipped. “EPR” is displayed on the board.

### Corresponding PLDs :

Name of board PLD/ROM	EPR connector	Project file No.
PR-292 IC305*1, IC314*1, IC300	CN14	E_000_003_61_01

\*1 : IC305 and IC314/PR-292 are the ROMs for IC300/PR-292.

## Used equipment

- PLD download tool (Sony part No. : J-7120-140-A)  
Cable to connect PC and the device
- PC  
Computer with a parallel port.  
Computer with PLD Download Tool installed.  
For the supported OS and operating environment, refer to “Download Tool Operation Manual (Device Writing Volume)”.

## Operation procedure

The procedure to write data to the PLD (or the ROM for the PLD) is outlined below.

For details on these steps, refer to “Download Tool Operation Manual (Device Writing Volume)”.

“Download Tool Operation Manual (Device Writing Volume)” can be obtained on the same Web site where the PLD Download Tool software is downloaded.

Step 1. Prepare the Project file.

**Note**

Download the Project file from the Sony database server.

Step 2. With the power of the device turned off, connect the parallel port on the PC and the EPR connector on the target board with the PLD download tool (cable).

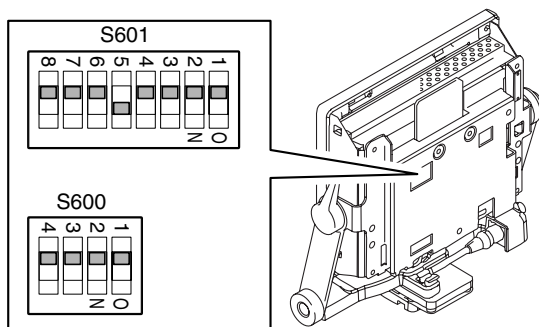
Step 3. Turn on the power of the device.  
Launch the PLD Download Tool software, and import the Project file.

Step 4. Program the PLD (or the ROM for the PLD) by using the PLD Download Tool software.

Step 5. When the programming completes correctly (without an error message), restart the device.

## 1-6. Description of On-board Switches

### PR-292 board



Ref. No.	Name	Bit	Contents	Factory default setting																				
S600	Model ID	1 to 4		All OFF																				
S601	SECOND VF settings	1	OFF: Normal ON : When used as the Second VF*1	OFF																				
	Input signal format settings*2	2 to 4		All OFF																				
			<table border="1"> <thead> <tr> <th></th> <th>AUTO</th> <th>60i</th> <th>50i</th> <th>24PsF</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>OFF</td> <td>ON</td> <td>OFF</td> <td>ON</td> </tr> <tr> <td>3</td> <td>OFF</td> <td>OFF</td> <td>ON</td> <td>ON</td> </tr> <tr> <td>4</td> <td>OFF</td> <td>OFF</td> <td>OFF</td> <td>OFF</td> </tr> </tbody> </table>		AUTO	60i	50i	24PsF	2	OFF	ON	OFF	ON	3	OFF	OFF	ON	ON	4	OFF	OFF	OFF	OFF	
	AUTO	60i	50i	24PsF																				
2	OFF	ON	OFF	ON																				
3	OFF	OFF	ON	ON																				
4	OFF	OFF	OFF	OFF																				
		5		ON																				
		6		OFF																				
	BOOT SOFT VERSION UP	7	OFF: Normal ON : During VERSION UP	OFF																				
	MAIN SOFT VERSION UP	8	OFF: Normal ON : During VERSION UP	OFF																				

\*1 : Set this to ON only when using the device as the second VF by connecting it to the EXT I/O (20P) connector of HDC-950 or HDC-930. (No setting change is required when using the device alone.)

In this case, a dedicated VF connection cable and the corresponding camera settings are needed.

Contact your nearest SONY Office/Service Center for details.

No setting change is required when connecting the device to the EXT I/O (20P) connector of HDC-F950.

\*2 : The input signal format must be set according to the connected camera. Change the setting only when you want to fix the format on the VF side.

## 1-7. Removal/Installation of Main Parts

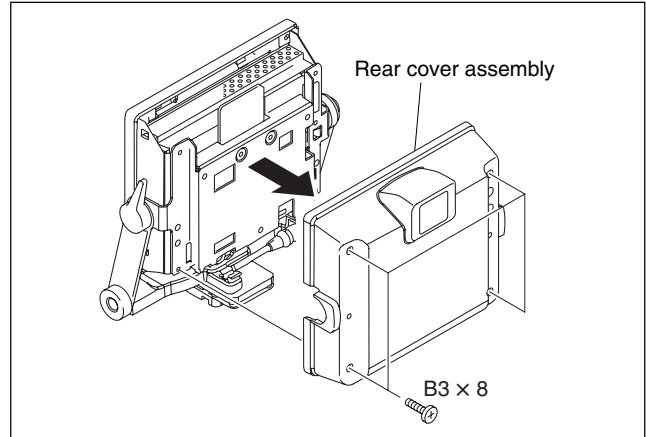
### 1-7-1. Removing LCD Module

#### Note

When installing the dustproof cushions, install new dustproof cushions.

Dustproof cushions (H), (V), conductive fabric tape

1. Remove the four screws and remove the rear cover assembly.



2. Disconnect the six harnesses from the connectors (CN5, CN6, CN8, CN9, CN11 and CN12) of the PR-292 board.

3. Remove the two screws and remove the two GND terminals from the CN box bracket.

#### Note

When installing the GND terminals, install them in the remote location from the hole "A" with the terminal facing inside.

4. Peel the conductive fabric tape at the bottom of the CN box bracket.

#### Precautions for installation

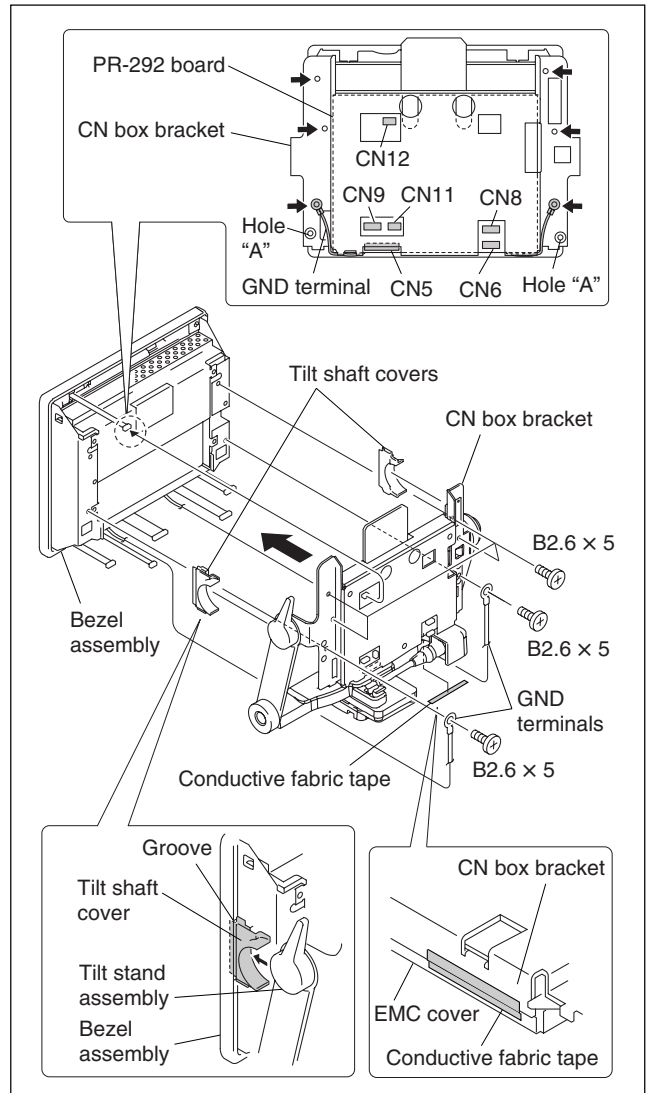
- Affix the conductive fabric tape before connecting the harness.
- Affix the conductive fabric tape to the CN box bracket and the EMC cover after installing the CN box bracket to the bezel assembly.

5. Remove the four screws and remove the bezel assembly from the CN box bracket.

#### Notes

- When the CN box bracket is removed from the bezel assembly, the tilt shaft covers are removed. Be careful not to drop them.
- When installing the bezel assembly to the CN box bracket, install the bezel assembly to the CN box bracket first of all. Then, connect the harnesses.

6. Remove the right and left tilt shaft covers from the groove of the bezel cover assembly.

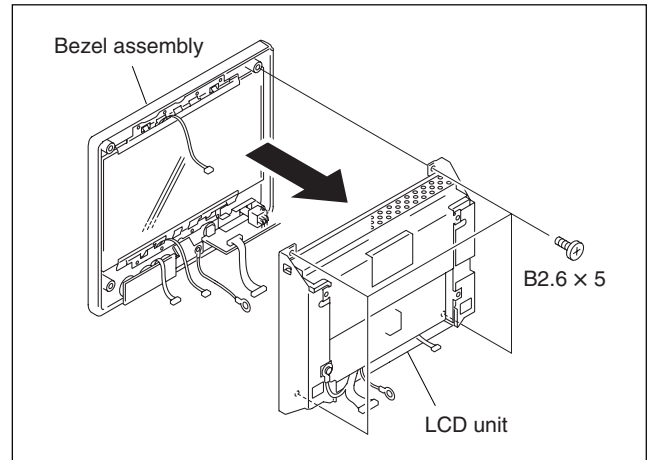


- Remove the four screws and remove the LCD unit.

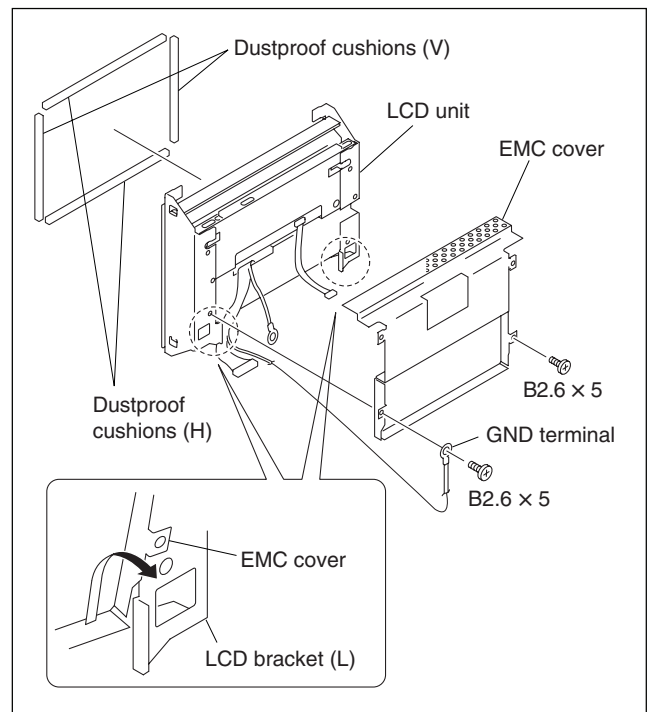
**Note**

Standard tightening torque :

$$25 \times 10^{-2} \text{ N}\cdot\text{m} (2.5 \text{ kg}\cdot\text{cm})$$



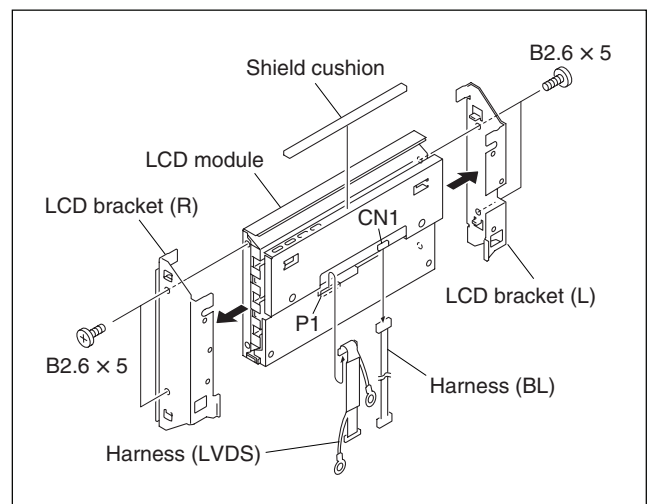
- Remove the two screws and remove the GND terminal and the EMC cover in the direction of arrow.
- Remove the two dustproof cushions (V) and the two dustproof cushions (H) from the front of the LCD panel.



- Remove the four screws and remove the LCD brackets (L) / (R).
- Disconnect the harnesses from the two connectors (CN1, P1) of the LCD module, and remove the shield cushion.
- Reinstall it by reversing the steps 1 to 11 of disassembling.

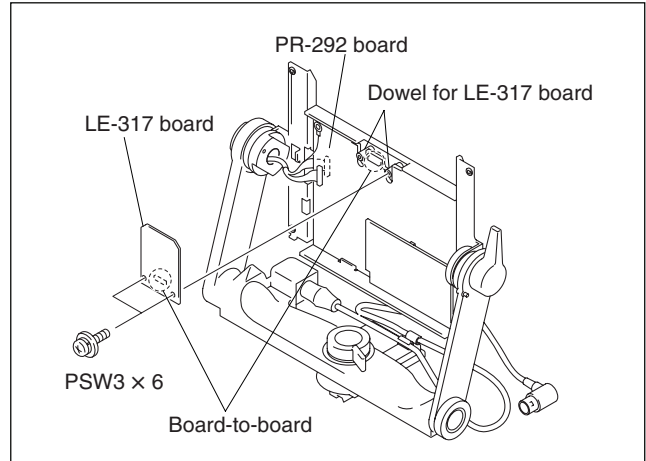
**Note**

When the LCD module is replaced, the adjustment is required. Refer to “Section 3. Electrical Adjustment”.



## 1-7-2. Removing the LE-317 Board

1. Remove the rear cover assembly.  
(Refer to Section 1-7-1 step 1.)
2. Remove the bezel assembly.  
(Refer to Section 1-7-1 steps 2 to 5.)
3. Remove the two screws and remove the LE-317 board from the board-to-board connector of the PR-292 board.
4. Reinstall it by reversing the steps 1 to 3 of disassembling.



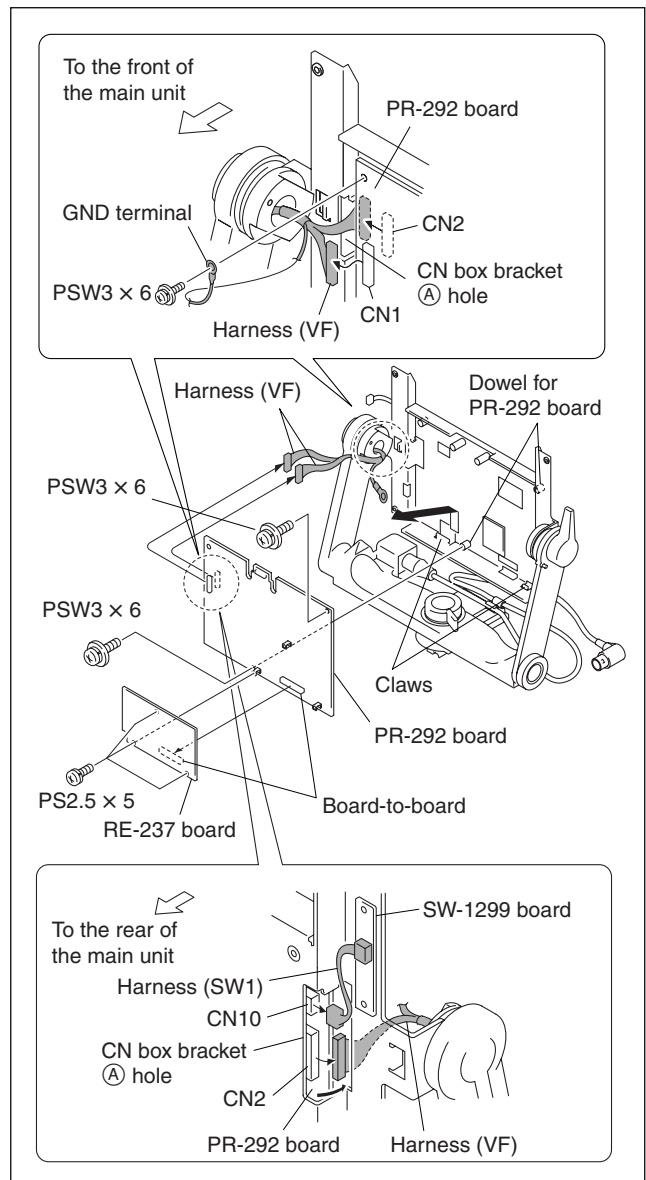
## 1-7-3. Removing the PR-292 Board

1. Remove the rear cover assembly.  
(Refer to Section 1-7-1 step 1.)
  2. Remove the bezel assembly.  
(Refer to Section 1-7-1 steps 2 to 5.)
  3. Remove the LE-317 board.  
(Refer to Section 1-7-2 step 3.)
  4. Remove the screw and remove the GND terminal.
  5. Disconnect the harness from the connector (CN1) of the PR-292 board.
  6. Disconnect the two harnesses from the connectors (CN2, CN10) of the PR-292 board.
- Note**  
Disconnect the harness (VF) on the connector (CN2) side of the PR-292 board toward the front side of the main unit through the CN box bracket (A) hole.
7. Remove the two screws and remove the PR-292 board.
  8. Remove the three screws (PS2.5 × 5), and remove the RE-237 board.

**Note**

When installing the RE-237 board, apply the screw locking compound.

9. Reinstall it by reversing the steps 1 to 8 of disassembling.





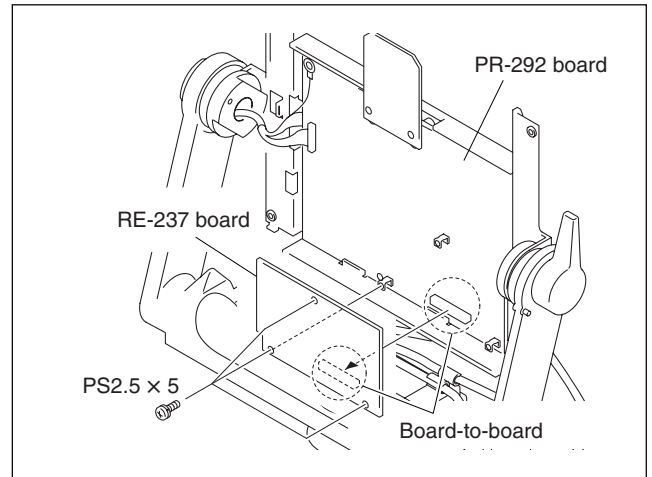
### 1-7-4. Removing the RE-237 Board

1. Remove the rear cover assembly.  
(Refer to Section 1-7-1 step 1.)
2. Remove the bezel assembly.  
(Refer to Section 1-7-1 steps 2 to 5.)
3. Remove the three screws and remove the RE-237 board.

**Note**

When installing the RE-237 board, apply the screw locking compound to the screws.

4. Reinstall it by reversing the steps 1 to 3 of disassembling.



### 1-7-5. Removing the LE-315 Board

1. Remove the rear cover assembly.  
(Refer to Section 1-7-1 step 1.)
2. Remove the LCD unit.  
(Refer to Section 1-7-1 steps 2 to 7.)
3. Remove the four screws and remove the LED bracket and the LE-315 board from the bezel assembly in the direction of arrow.

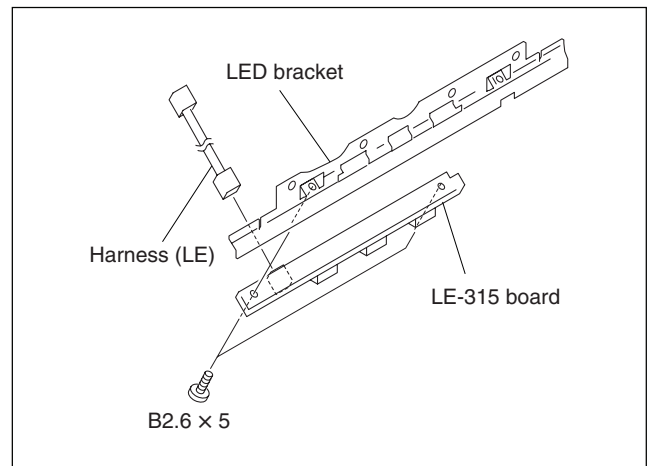
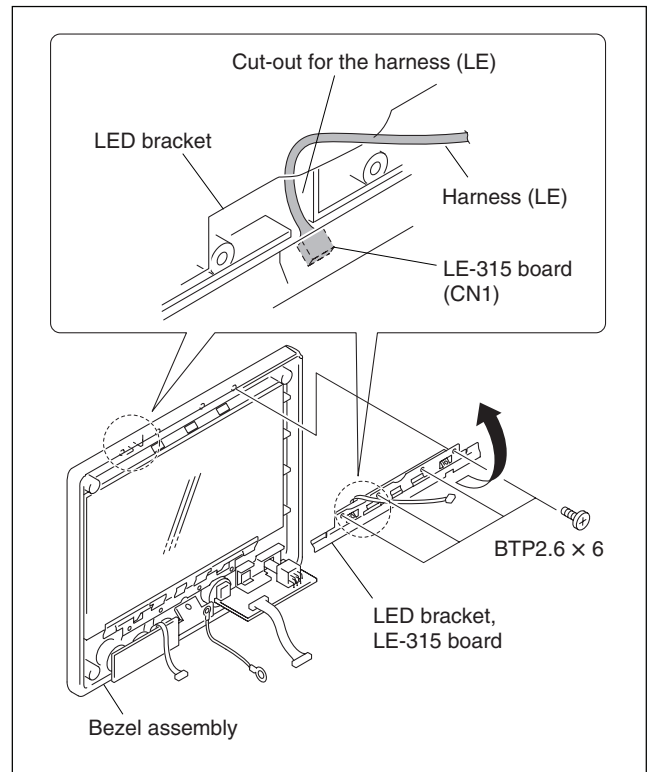
**Notes**

- To install the LED bracket and the LE-315 board to the bezel assembly, pass the harness (LE) through the cut-out for the harness (LE).  
Be careful not to pinch the harness (LE) with the LED bracket.
- Do not scar the protection panel.

**Note**

Standard tightening torque :  
 $25 \times 10^{-2} \text{ N}\cdot\text{m}$  (2.5 kg $\cdot$ cm)

4. Disconnect the harness from the connector (CN1) of the LE-315 board.
5. Remove the two screws and remove the LED bracket from the LE-315 board.
6. Reinstall it by reversing the steps 1 to 5 of disassembling.



## 1-7-6. Removing the LE-316 Board

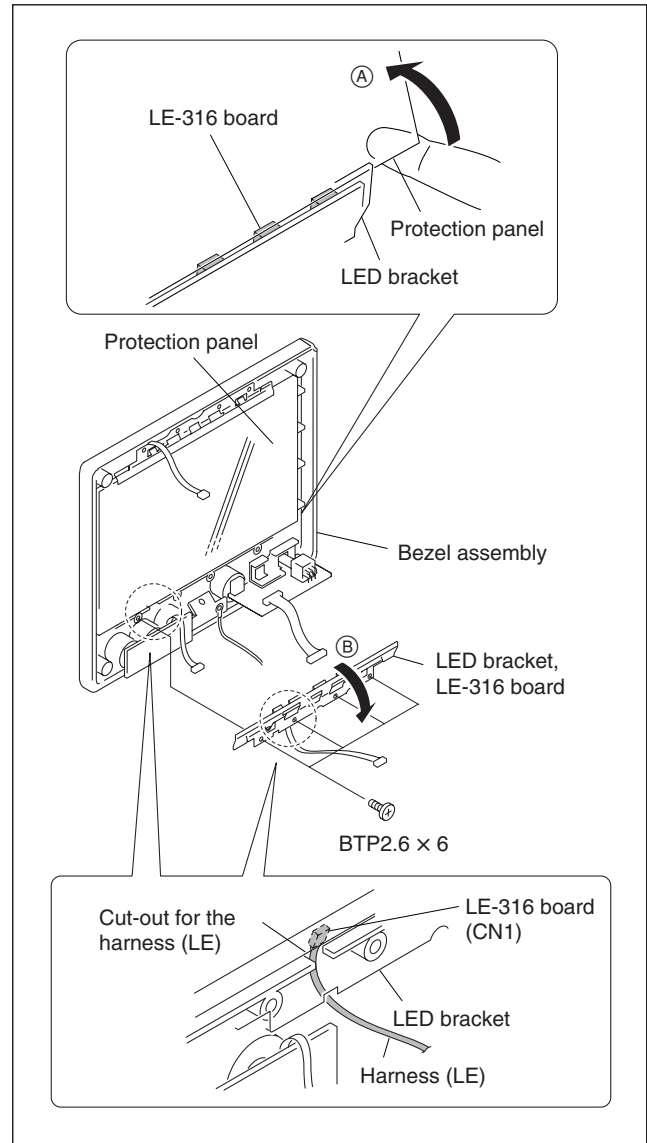
1. Remove the rear cover assembly.  
(Refer to Section 1-7-1 step 1.)
2. Remove the bezel assembly.  
(Refer to Section 1-7-1 steps 2 to 5.)
3. Remove the four screws. Raise the protection panel in the direction of arrow (A), and remove the LED bracket and the LE-316 board in the direction of arrow (B).

### Notes

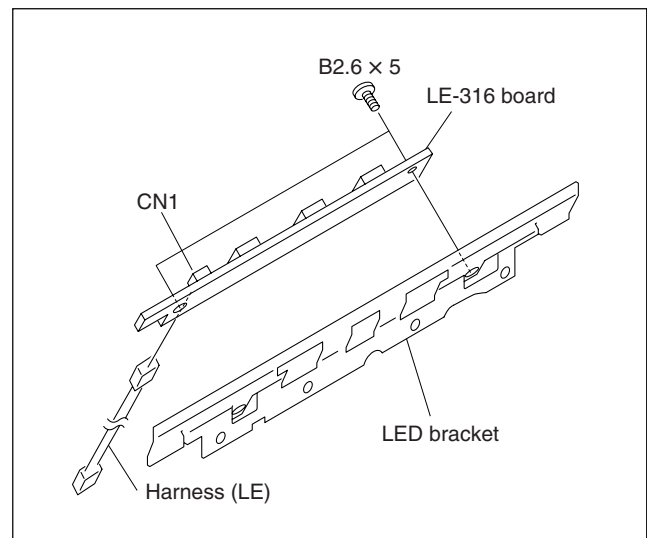
- To install the LED bracket and the LE-316 board in the bezel assembly, pass the harness (LE) through the cut-out for the harness (LE).  
Be careful not to pinch the harness (LE) with the LED bracket.
- Do not scar the protection panel.

### Note

Standard tightening torque :  
 $25 \times 10^{-2} \text{ N}\cdot\text{m}$  (2.5 kg $\cdot$ cm)



4. Disconnect the harness from the connector (CN1) of the LE-316 board.
5. Remove the two screws and remove the LED bracket from the LE-316 board.
6. Reinstall it by reversing the steps 1 to 5 of disassembling.



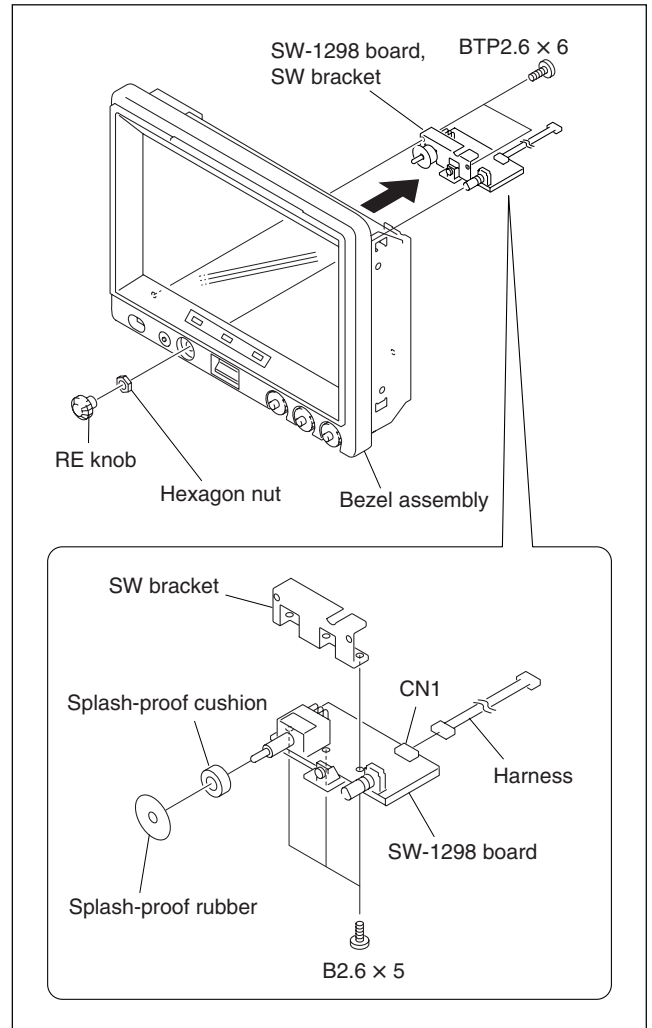
### 1-7-7. Removing the SW-1298 Board

1. Remove the rear cover assembly.  
(Refer to Section 1-7-1 step 1.)
2. Remove the bezel assembly.  
(Refer to Section 1-7-1 steps 2 to 5.)
3. Remove the RE knob and the hexagon nut from the bezel assembly.

**Note**

Do not scar the front panel.

4. Remove the two screws (BTP2.6 × 6), and remove the SW bracket and the SW-1298 board.
5. Remove the three screws (B2.6 × 5), and remove the splash-proof rubber, the splash-proof cushion and the SW bracket from the SW-1298 board.
6. Disconnect the harness from the connector (CN1) of the SW-1298 board
7. Reinstall it by reversing the steps 1 to 6 of disassembling.



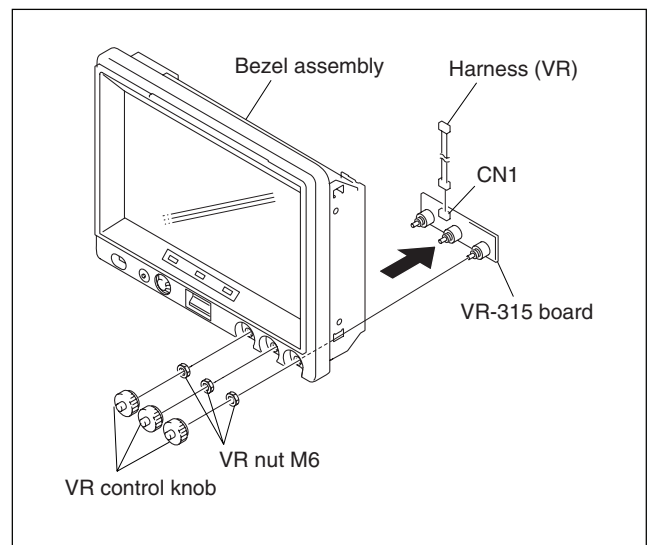
### 1-7-8. Removing the VR-315 Board

1. Remove the rear cover assembly.  
(Refer to Section 1-7-1 step 1.)
2. Remove the bezel assembly.  
(Refer to Section 1-7-1 steps 2 to 5.)
3. Remove the three VR control knobs from the bezel assembly.
4. Remove the three VR nuts M6 and remove the VR-315 board.

**Note**

Do not scar the front panel.

5. Disconnect the harness from the connector (CN1) of the VR-315 board.
6. Reinstall it by reversing the steps 1 to 5 of disassembling.

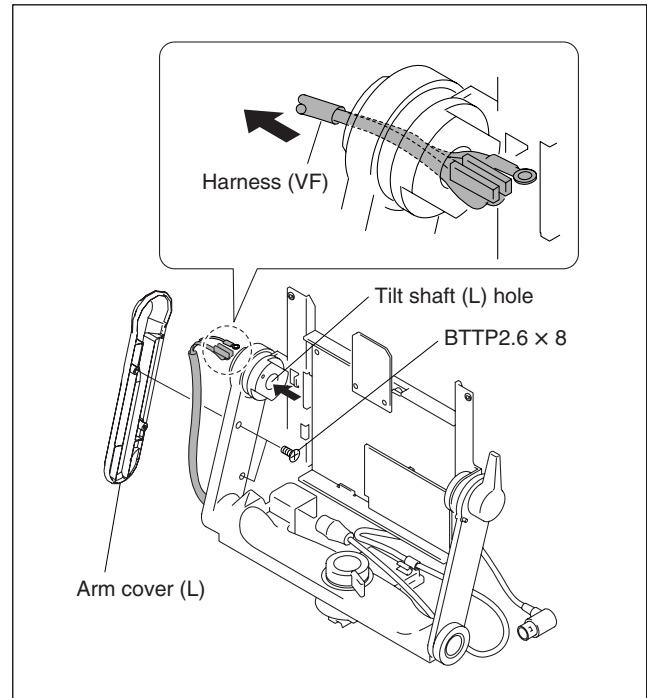


### 1-7-9. Removing the Harness (VF)

1. Remove the rear cover assembly.  
(Refer to Section 1-7-1 step 1.)
2. Remove the bezel assembly.  
(Refer to Section 1-7-1 steps 2 to 5.)
3. Remove the screw and remove the GND terminal.  
(Refer to Section 1-7-3 step 4.)
4. Disconnect the harness from the connector (CN1) of the PR-292 board. (Refer to Section 1-7-3 step 5.)
5. Disconnect the harness from the connector (CN2) of the PR-292 board and remove it toward the front of the machine through the CN box bracket (A) hole.  
(Refer to Section 1-7-3 step 6.)
6. Remove the two screws and remove the arm cover (L).
7. Disconnect the harness through the tilt shaft (L) hole in the direction of arrow.

**Note**

Be careful not damage the harness (VF).

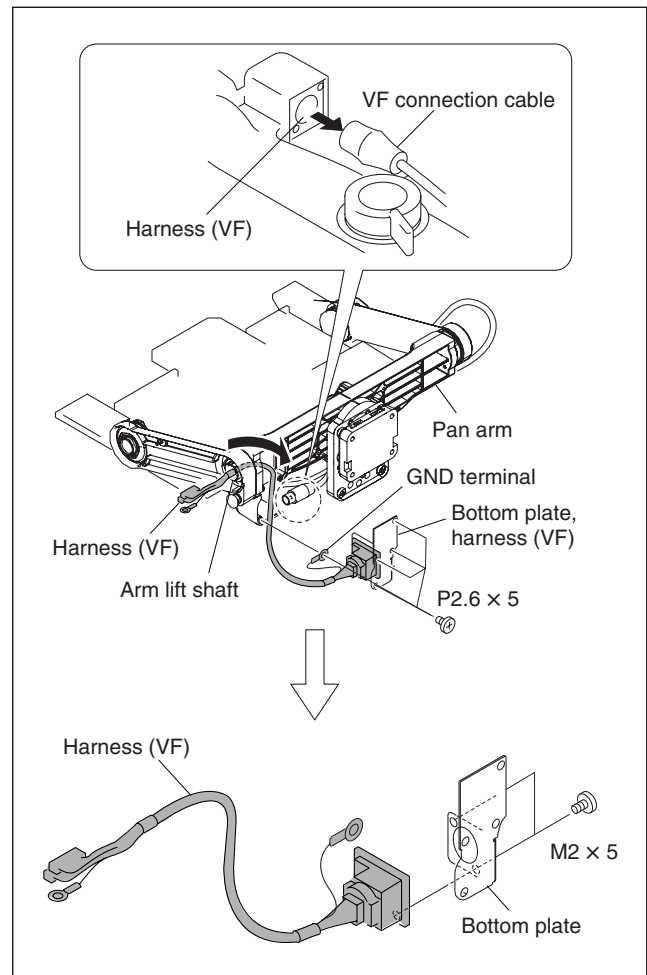


8. Disconnect the VF connection cable from the harness.
9. Remove the four screws (P2.6 x 5), and remove the GND terminal, the bottom plate and harness from the pan arm.
10. Remove the harness from the arm lift shaft in the direction of arrow.

**Note**

Be careful not damage the harness (VF).

11. Remove the two screws (M2 x 5) and remove the harness (VF) from the bottom plate.
12. Reinstall it by reversing the steps 1 to 11 of disassembling.



## 1-8. Extending the Circuit Board

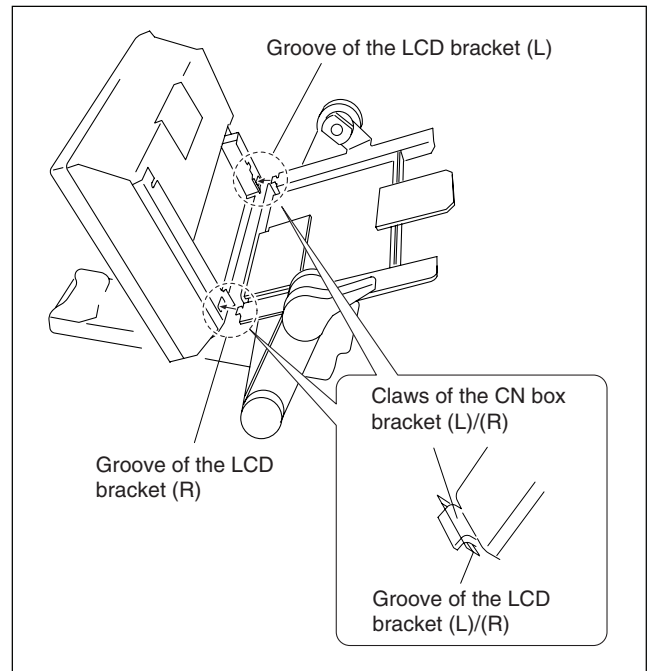
Fixture required: PR/RE extension assembly

### Note

Life of flexible card wire will be significantly shortened if it is folded. Be very careful not to fold the flexible card wire.

### 1-8-1. Service Position

1. Remove the rear cover assembly.  
(Refer to Section 1-7-1 step 1.)
2. Disconnect the two harnesses from the connectors (CN11, CN12) of the PR-292 board. (Refer to Section 1-7-1 step 2.)
3. Remove the bezel assembly.  
(Refer to Section 1-7-1 steps 3 to 5.)
4. Insert the claws of the CN box bracket (L)/(R) into the grooves (L)/(R) of the LCD bracket as shown in the figure.



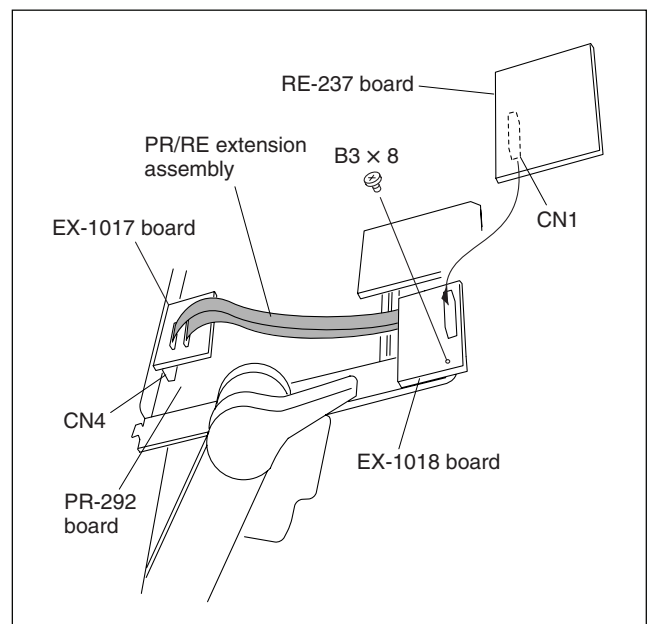
### 1-8-2. RE-237 Board

1. Set the unit to the service position.  
(Refer to Section 1-8-1.)
2. Remove the RE-237 board.  
(Refer to Section 1-7-4 step 3.)
3. Connect the PR/RE extension assembly (EX-1017 board side) to the connector (CN4) of the PR-292 board.
4. Install the PR/RE extension assembly (EX-1018 board side) with the screw to the CN box bracket.

### Note

Fix the EX-1018 board to the position shown in the figure with the screw (B3 × 8) removed from the rear cover.

5. Connect the RE-237 board to the connector of the PR/RE extension assembly (EX-1018 board side).



## 1-9. Fuse and IC Link Replacement

### WARNING

The fuse and IC link are critical parts to safe operation. Replace the components with Sony parts whose part number appear in the manual published by Sony. If the components are replaced by any parts other than the specified ones, this may cause a fire or electric shock.

### CAUTION

If a fuse or IC link is replaced while the main power is kept on, this may cause electric shock.

Before replacing fuse or IC link, not only turn off the POWER switch but also remove the power cable that is connected to the DC IN connector.

The RE-237 board is equipped with fuse. The PR-292 board is equipped with IC link.

Any an excessive current flow due to abnormality inside the equipment, the fuse and IC link blow. If a fuse or IC link blows, turn off the main power of the equipment once and inspect inside of the equipment and remove the cause of excessive current. After that, replace the fuse and/or IC link.

Board	Ref. No.	Description	Part No.
RE-237	F1	Fuse (3.15 A/125 V)	△1-576-269-21
PR-292	PS1, 2, 3, 4	IC link 0.6 A	△1-576-259-21

## 1-10. Unleaded Solder

Boards requiring use of unleaded solder are printed with a lead free mark (LF) indicating the solder contains no lead. (Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size.)

 : LEAD FREE MARK

### Notes

- Be sure to use the unleaded solder for the printed circuit board printed with the lead free mark.
- The unleaded solder melts at a temperature about 40 °C higher than the ordinary solder, therefore, it is recommended to use the soldering iron having a temperature regulator.
- The ordinary soldering iron can be used but the iron tip has to be applied to the solder joint for a slightly longer time. The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful.

## Section 2

# Setting Menu

### 2-1. Setting Menu

The setting menu is used for selecting and adjusting all of the parameters.

#### Setting menu configuration

The Setting menu consists of the following menus.

- OPERATION menu
- SERVICE menu

#### Note

The TOP menu screen is also available for displaying the entire configuration of the menu items.

For information about how to display the TOP menu, refer to “2-2. TOP Menu”.

#### Description of switches

##### MENU knob

Selects items in the menu or changes the parameters.

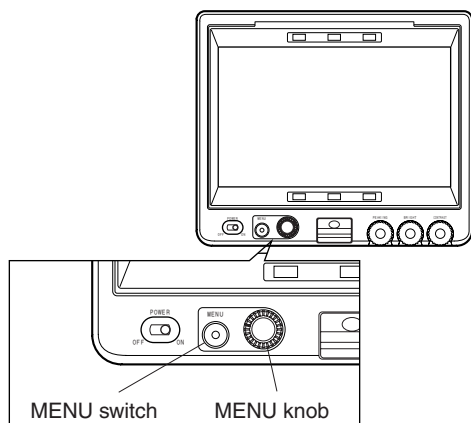
Turn : Move to the next item or page and change parameters.

Press : Select the next item or page and set parameters.

##### MENU switch

Displays the setting menu.

Deletes changed parameters during setting and returns to page selection mode or the TOP menu.



#### Basic operations

1. Display the menu  
Press the MENU switch to display the OPERATION menu.
2. Select the menu page  
With the “?” mark displayed in front of the page number (page selection mode), turn the MENU knob. When the desired page is displayed, press the MENU knob.
3. Select the item  
With the cursor mark “→” display in front of the setting items in the selected page (item selection mode), turn the MENU knob. When the cursor mark “→” lines up with the item you want to change, press the MENU knob.
4. Change the parameter  
With the “?” mark displayed in front of the parameter (parameter changing mode), turn the MENU knob to change the parameter.  
If the parameter is a number, turning the MENU knob clockwise increases the value and turning it counter-clockwise decreases the value.  
Turning the knob far increases the value quickly, while slowly turning the knob fine-tunes the value.
5. Set the parameter  
Press the MENU knob.  
This sets the parameter and returns to item selection mode.  
**Note**  
If the MENU switch is pressed before pressing the MENU knob, the parameter returns to the value before making changes and the screen returns to item selection mode.
6. Exit the menu display  
Every time the MENU switch is pressed, a different operation is performed. First, the screen switches to item selection mode, then page selection mode, then returns to the TOP menu\*1.  
Pressing the MENU switch a final time exits menu display.
7. Return the parameters to the defaults  
Move the cursor mark “→” in front of the parameter that you want to return to default. Press and hold the MENU knob for two or more seconds.

\*1 : Only has to be performed when operating from the TOP menu.  
Refer to “2-2. TOP Menu”.

## 2-2. TOP Menu

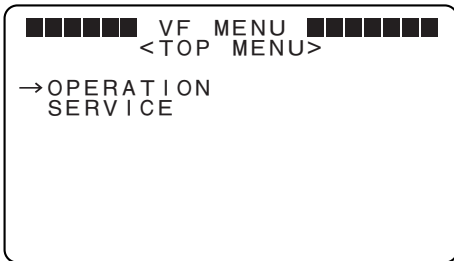
The TOP menu displays all of the menu items.

### Displaying the TOP Menu

1. Set the control knob on the front to the following settings.
  - ① CONTRAST knob : 99 (Turned fully clockwise)
  - ② BRIGHT knob : -99 (Turned fully counter-clockwise)
  - ③ PEAKING knob : 100 (Turned fully clockwise)
2. Press the MENU switch while holding down the MENU knob.  
The TOP menu is displayed.

---

### TOP MENU screen



---

Menu items	Contents
OPERATION	Contains the setting items required when the camera operator is using the device.
SERVICE	Contains items required for maintaining the View Finder, such as electrical alignment, HOURS METER, and self-diagnosis function.

---



## 2-3. OPERATION Menu

The OPERATION menu contains the setting items required when the camera operator is using the device. For more information, refer to the operation manual that comes with this device.

## 2-4. SERVICE Menu

The SERVICE menu contains items required for maintaining the View Finder, such as electrical alignment, HOURS METER, and self-diagnosis function.

### Notes

- The next menu item may not be selectable depending on the current menu item setting.
- “---” is displayed as the parameter for unselectable items.

Page	Menu	Items	Setting (□ indicates the default)	Function
S01*1	ADJUST	INVERTER POWER	0 to 215	Adjusts the inverter power supply voltage
		BL DIMMER	0 to 255	Adjusts the backlight
S02*1	COLOR TEMP	ADJUST BIAS R	-512 to 511	Adjusts the black level color temperature
		ADJUST BIAS G	-512 to 511	
		ADJUST BIAS B	-512 to 511	
		ADJUST GAIN R	0 to 255	Adjusts the white level color temperature.
		ADJUST GAIN G	0 to 255	
		ADJUST GAIN B	0 to 255	
S03	GAMMA/ KNEE	GAMMA SELECT	1 to 7	Switches the gamma table Currently, only 1 is valid
		KNEE POINT	0 to 213 to 255	Sets the knee point level
		KNEE SLOPE	1/2, 1/3, 1/4, CLIP	Sets the knee slope level
S04	PEAKING	FREQUENCY	L, M, MH, H	Sets the center frequency of the peaking signal
		SOURCE	NAMY, Y, R, G, B	Sets the video signal that makes the peaking signal
		B MIX GAIN	0 dB, -6 dB, -12 dB, -18 dB	Sets the mix gain that mixes the peaking signal to the B ch
		CRUMPLE	0 to 1 to 3	Sets the bit shift for crumpling the peaking signal
		RGB MIX	R, G, B, CY, MG, YL, SKIN, SKY, FOIL, ORAN	Sets the mix gain for R ch, G ch, and B ch when mixing the peaking signal to the main signal
		CRISPENING	0 to 5 to 63	Sets the level for crispening the peaking signal

\*1 : The items of S01 and S02 are adjusted when shipped from the factory.  
For information about adjustment, refer to Section 3 “Electrical Alignment”.

Page	Menu	Items	Setting (□ indicates the default)	Function
S05	FUNCTION2	SECOND VF	<input type="checkbox"/> OFF, ON	Switches the IIC address used as the second VF OFF : Normal ON : When used as the second VF*1
		PANEL REV <H>	<input type="checkbox"/> OFF, ON	Inverses the screen display horizontally OFF : Normal ON : Inverses horizontally
		PANEL REV <V>	<input type="checkbox"/> OFF, ON	Inverses the screen display vertically OFF : Normal ON : Inverses vertically
		MAG REL TIME	1 to <input type="text" value="5"/> to 10	Sets the time it takes to return from the enlarged view to the normal view when MAG AUTO RELEASE is set to AUTO*2
		TEST SIGNAL	<input type="checkbox"/> OFF, BARS, SAW, RAST	Sets the internal test signal*3 OFF : Does not output the test signal BARS : Outputs a color bar signal SAW : Outputs a saw-tooth wave test signal RAST : Outputs a rectangular test signal
		COLOR SELECT	<input type="text" value="W"/> , R, G, B, Y, C, M	Selects a display color when a rectangular test signal is selected
		TEST LEVEL	0 to <input type="text" value="255"/>	Sets the signal level when a rectangular test signal is selected
S06	HOURS METER	RESET METER	EXEC	Resets the OPERATION time Press the MENU knob to move to the operation screen*4
		OPERATION	Display only	Displays the total power-on time (resettable)
		TOTAL	Display only	Displays the total power-on time

\*1 : Set this to ON only when using the device as the second VF by connecting it to the EXT I/O (20P) connector of HDC-950 or HDC-930. (No setting change is required when using the device alone.)

In this case, a dedicated VF connection cable and the corresponding camera settings are needed.

Contact your nearest SONY Office/Service Center for details.

No setting change is required when connecting the device to the EXT I/O (20P) connector of HDC-F950.

\*2 : Refer to AUTO RELEASE of OPERATION MENU 03 MEGNIFICATION.

\*3 : This parameter will always start in OFF when the power is turned on.

\*4 : Place the cursor mark "→" on "EXEC" and press the MENU knob to move to the following operation screen.

Place the cursor mark "→" on "YES" and press the MENU knob to perform reset.

```

■■■■■■ VF MENU ■■■■■■
S06 HOURS METER
RESET OK? YES →NO
RESET METER :  EXEC

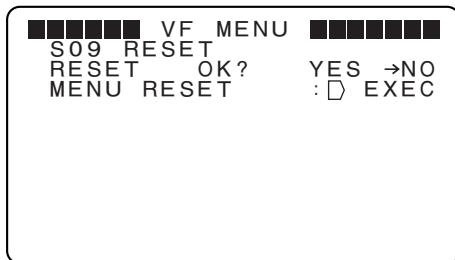
OPERATION : XXXXXXH
TOTAL : XXXXXXH

```

Page	Menu	Items	Setting	Function
S07	DIAGNOSIS	EEPROM	Display only	Indicates the self-diagnosis status for EEPROM (IC606) in the PR board OK : Normal ACCSS : Communication error DATA : Saved data error
		LCD	Display only	Indicates the self-diagnosis status for the LCD panel OK : Normal ACCSS : Communication error
		CLOCK	Display only	Indicates the self-diagnosis status for the clock generation IC (IC306) in the PR board OK : Normal ACCSS : Communication error DATA : Saved data error
		FPGA	Display only	Indicates the self-diagnosis status for FPGA (IC300) in the PR board OK : Normal ACCSS : Communication error
S08	VERSION	SOFTWARE MAIN	Display only	Displays the software version of the IC600/PR-292 board
		BOOT	Display only	Displays the BOOT software version of the IC600/PR-292 board
		FPGA	Display only	Displays the FPGA software version of the IC300/PR-292 board
S09	RESET	MENU RESET	EXEC	Returns the MENU parameters to the defaults*5 Push the MENU knob to switch to the operation screen*6

\*5 : Items in pages 1 and 2 of the SERVICE menu are adjusted when shipped from the factory (for information about adjustment, refer to Section 3 "Electrical Alignment"), and cannot be reset with MENU RESET.

\*6 : Place the cursor mark "→" on "EXEC" and press the MENU knob to move to the following operation screen.  
Place the cursor mark "→" on "YES" and press the MENU knob to perform reset.





## Section 3

# Electrical Alignment

### Note

The device is adjusted when shipped from the factory and the adjusted value is saved in IC606 on the PR-292 board. After replacing the LCD panel module, PR-292 board, or IC606, perform all of the following operations in this section.

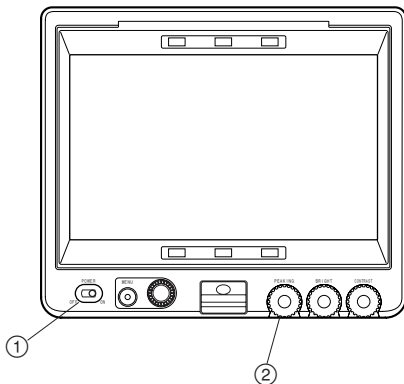
Perform each alignment in order.

## 3-1. Preparation

### 3-1-1. Description of Switches, Controls, and Menu Settings

#### Note

Configure the following settings for the switch, control, and menu settings for making adjustments in this section unless otherwise directed.



- ① POWER switch : ON
- ② PEAKING knob : OFF  
(Turned fully counter-clockwise)
- ③ MENU : OPERATION  
PAGE : 01 OFUNCTION  
ITEM : KNEE → OFF  
: MONOCHROME → OFF
- ④ MENU : OPERATION  
PAGE : 05 ORESPONSE MODE  
ITEM : MODE SELECT → A  
: MODE <A> → LOW
- ⑤ MENU : SERVICE  
PAGE : S05 OFUNCTION 2  
ITEM : TEST SIGNAL → RAST  
: COLOR SELECT → W

### 3-1-2. Used Equipment

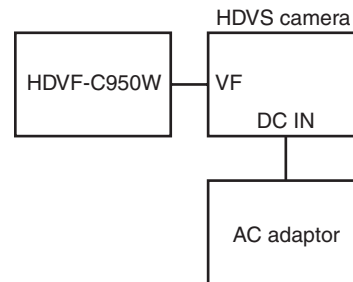
#### Measurement equipments

- Display color analyzer  
Konica Minolta sensing CA-210 or equivalent
- Digital voltmeter  
Advantest TR6845 or equivalent

#### Related equipments

- HDVS camera  
HDC1500, HDW-F900R, or equivalent
- AC adaptor  
Sony AC-DN10 or equivalent

### 3-1-3. Connection



### 3-1-4. Format Settings

Perform adjustment in 1080/60i or 1080/59.94i mode. For information about switching between formats, refer to the operation manual for HDC1500 or HDW-F900R.

### 3-2. Inverter Power Supply Voltage Adjustment

Adjust the INVERTER POWER so that the inverter power supply voltage meets specifications.

Setting MENU : SERVICE  
PAGE : S01○ADJUST  
ITEM : INVERTER POWER  
Measurement equipment : Digital voltmeter  
Measurement point : CL700/PR-292 board  
Specifications : 12.00 ±0.15 V

### 3-3. Brightness Initial Adjustment

#### Notes

- Perform this adjustment after more than 1 hour have passed since turning on the power to allow the brightness to stabilize.
- Perform brightness adjustment with a 100% all white signal as the internal test signal.

1. Set the controls and menus to the following settings.  
① BRIGHT knob : 99 (Turned fully clockwise)  
② CONTRAST knob : 99 (Turned fully clockwise)  
③ MENU : SERVICE  
PAGE : S05○FUNCTION 2  
ITEM : TEST LEVEL → 255
2. Adjust the BL DIMMER so that the brightness in the center of the screen meets specifications.  
Setting MENU : SERVICE  
PAGE : S01○ADJUST  
ITEM : BL DIMMER  
Measurement equipment : Display color analyzer  
Measurement point : Center of the screen  
Specifications : 350 (+10/-0) cd/m<sup>2</sup>

### 3-4. Color Temperature Adjustment

1. Follow steps (1) to (4) below to perform the ADJUST BIAS.  
(1) Set the controls to the following settings.  
① BRIGHT knob : -99 (Turned fully counter-clockwise)  
② CONTRAST knob : -99 (Turned fully counter-clockwise)  
(2) Adjust the TEST LEVEL so that the brightness in the center of the screen meets specifications.  
Setting MENU : SERVICE  
PAGE : S05○FUNCTION 2  
ITEM : TEST LEVEL  
Measurement equipment : Display color analyzer  
Measurement point : Center of the screen  
Specifications : 35 cd/m<sup>2</sup>  
(3) Set the data for ADJUST BIAS G to "0". (ADJUST BIAS G is fixed to 0.)  
(4) Adjust the ADJUST BIAS R/B so that the color temperature in the center of the screen meets specifications.  
Setting MENU : SERVICE  
PAGE : S02○COLOR TEMP  
ITEM : ADJUST BIAS R  
ADJUST BIAS B  
Measurement equipment : Display color analyzer  
Measurement point : Center of the screen  
Specifications :  $x = 0.3133 \pm 0.003$   
 $y = 0.3297 \pm 0.003$
2. Follow steps (1) to (3) below to perform the ADJUST GAIN.  
(1) Set the controls to the following settings.  
① BRIGHT knob : 99 (Turned fully clockwise)  
② CONTRAST knob : 99 (Turned fully clockwise)  
(2) Adjust the TEST LEVEL so that the brightness in the center of the screen meets specifications.  
Setting MENU : SERVICE  
PAGE : S05○FUNCTION 2  
ITEM : TEST LEVEL  
Measurement equipment : Display color analyzer  
Measurement point : Center of the screen  
Specifications : 315 cd/m<sup>2</sup>

- (3) Switch the ADJUST GAIN R/G/B and adjust them so that the color temperature in the center of the screen meets specifications.

**Note**

During this adjustment, either R, G, or B should be fixed to 64, and the remaining two parameters should be set no higher than 64.

Setting MENU : SERVICE  
 PAGE : S02OCOLOR TEMP  
 ITEM : ADJUST GAIN R  
 : ADJUST GAIN G  
 : ADJUST GAIN B

Measurement equipment : Display color analyzer  
 Measurement point : Center of the screen  
 Specifications :  $x = 0.3133 \pm 0.003$   
 :  $y = 0.3297 \pm 0.003$

3. Repeat steps 1 and 2 until the color temperature completely meets the specifications.

### 3-5. Brightness Final Adjustment

1. Set the controls and menus to the following settings.

① BRIGHT knob : 99 (Turned fully clockwise)  
 ② CONTRAST knob : 99 (Turned fully clockwise)  
 ③ MENU : SERVICE  
 PAGE : S05OFUNCTION 2  
 ITEM : TEST LEVEL → 255

2. Adjust the BL DIMMER so that the brightness in the center of the screen meets specifications.

Setting MENU : SERVICE  
 PAGE : S01OADJUST  
 ITEM : BL DIMMER

Measurement equipment : Display color analyzer  
 Measurement point : Center of the screen  
 Specifications :  $350 (+10/-0) \text{ cd/m}^2$





## Section 4

### Spare Parts

#### 4-1. Notes on Repair Parts

##### 1. Safety Related Components Warning

###### WARNING

Components marked  $\triangle$  are critical to safe operation. Therefore, specified parts should be used in the case of replacement.

##### 2. Standardization of Parts

Some repair parts supplied by Sony differ from those used for the unit. These are because of parts commonality and improvement.

Parts list has the present standardized repair parts.

##### 3. Stock of Parts

Parts marked with “o” at SP (Supply Code) column of the spare parts list may not be stocked. Therefore, the delivery date will be delayed.

##### 4. Harness

Harnesses with no part number are not registered as spare parts.

#### 4-1. 補修部品注意事項

##### 1. 安全重要部品

###### $\triangle$ 警告

$\triangle$ 印のついた部品は安全性を維持するために重要な部品です。したがって、交換する時は必ず指定の部品を使ってください。

##### 2. 部品の共通化

ソニーから供給する補修用部品は、セットに使われているものと異なることがあります。

これは部品の共通化、改良等によるものです。

部品表には現時点での共通化された補修用部品が記載されています。

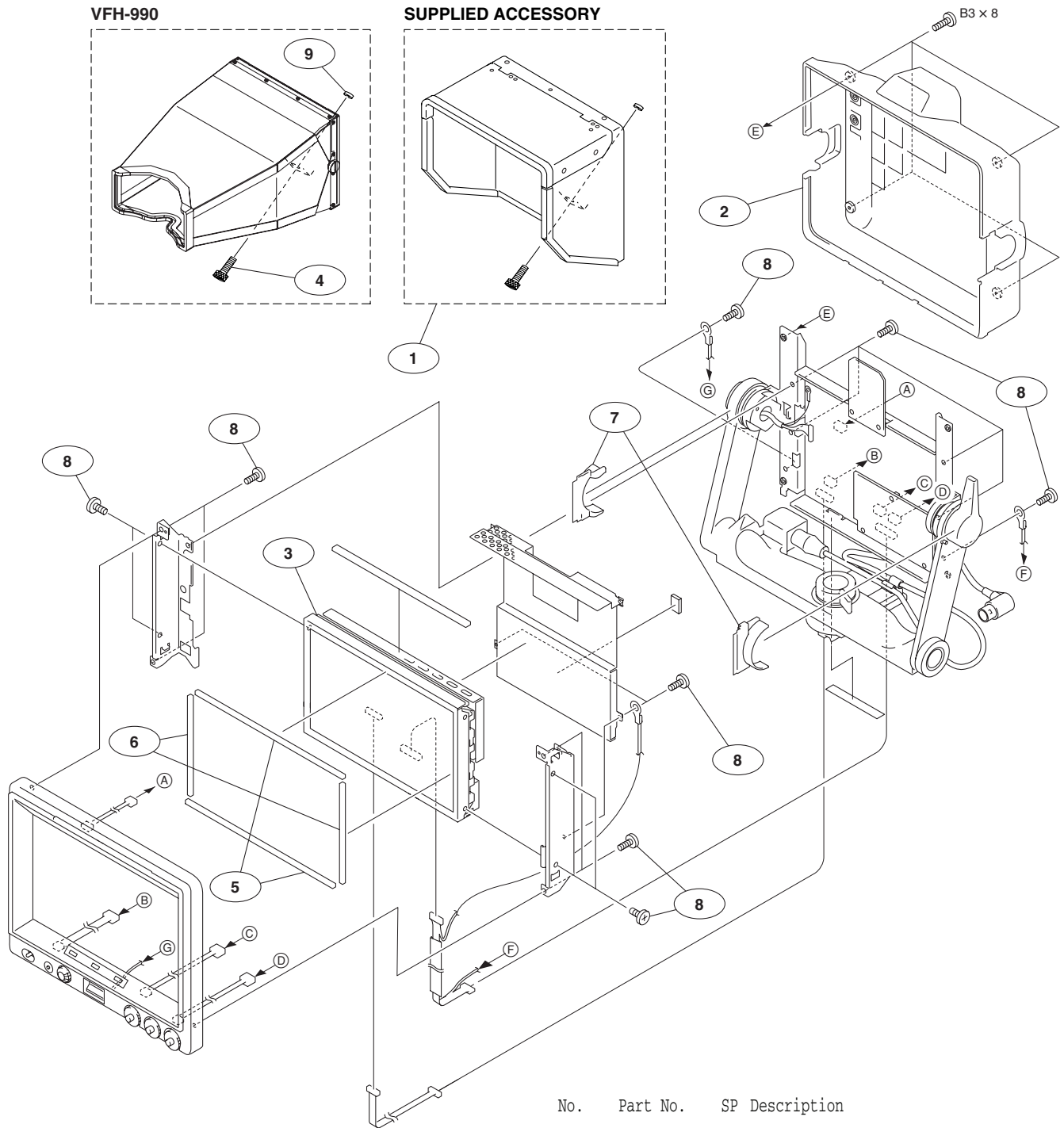
##### 3. 部品の在庫

部品表のSP (Supply code) 欄に “o” で示される部品は在庫していないことがあり、納期が長くなることがあります。

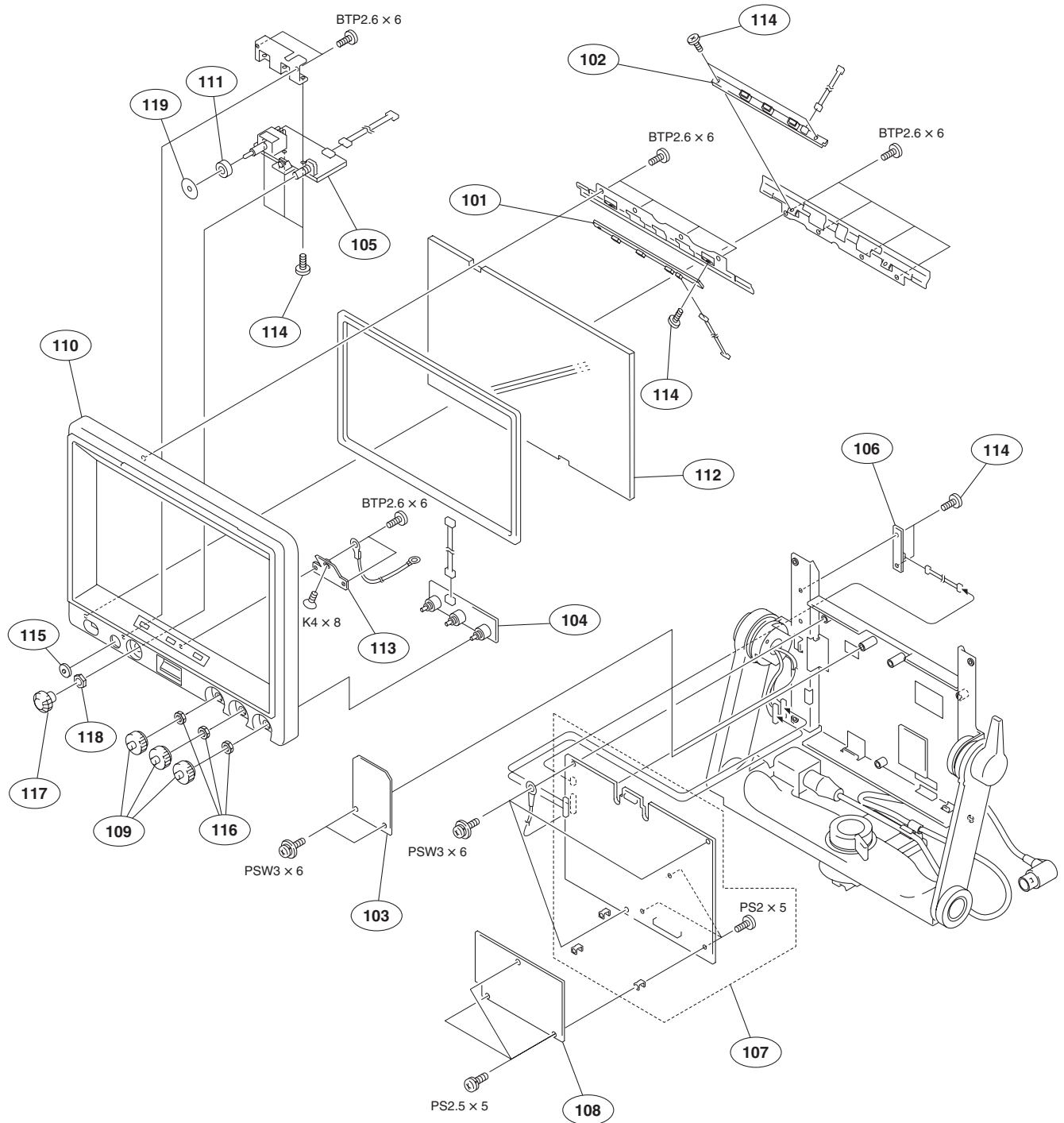
##### 4. ハーネス

部品番号が記載されていないハーネスは、サービス部品として登録されていません。

4-2. Exploded Views



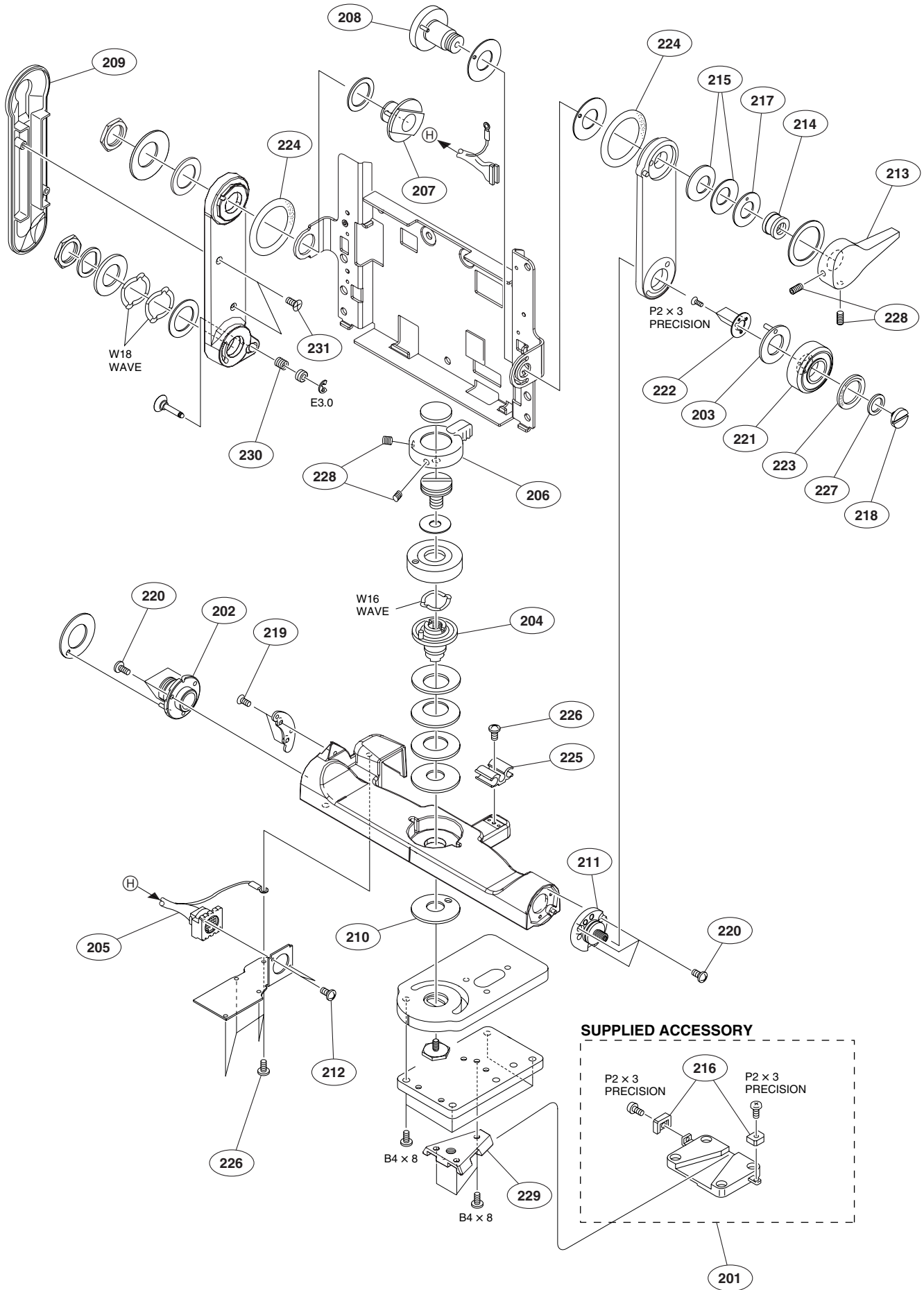
No.	Part No.	SP	Description
1	X-2149-576-1	s	HOOD ASSY, INDOOR
2	X-2149-578-1	s	COVER ASSY, REAR
3	Δ 1-802-297-11	s	MODULE, LCD
4	2-888-461-01	s	SCREW, BINDING
5	2-888-472-01	s	CUSHION (H), DUST PROTECTION
6	2-888-473-01	s	CUSHION (V), DUST PROTECTION
7	2-888-490-01	s	COVER, TILT SHAFT
8	3-364-941-01	s	SCREW (+B) (2.6X5), NYLOK
9	3-701-440-21	s	WASHER, 3.5
	7-682-548-09	s	SCREW, +B 3X8



No.	Part No.	SP Description
101	A-1137-282-A	s MOUNTED CIRCUIT BOARD, LE-315
102	A-1137-283-A	s MOUNTED CIRCUIT BOARD, LE-316
103	A-1137-284-A	s MOUNTED CIRCUIT BOARD, LE-317
104	A-1137-285-A	s MOUNTED CIRCUIT BOARD, VR-315
105	A-1137-286-A	s MOUNTED CIRCUIT BOARD, SW-1298
106	A-1141-332-A	s MOUNTED CIRCUIT BOARD, SW-1299
107	A-1211-827-A	s MOUNTED CIRCUIT BOARD, PR-292
108	A-1211-828-A	s MOUNTED CIRCUIT BOARD, RE-237
109	X-2149-575-1	s KNOB ASSY, VR
110	X-2149-577-1	s BEZEL ASSY
111	2-888-464-01	s CUSHION (PWR SW), PROTECTION
112	2-888-466-01	s PLATE, PROTECTION
113	2-888-618-01	s NUT, HOOD

No.	Part No.	SP Description
114	3-364-941-01	s SCREW (+B) (2.6X5), NYLOK
115	3-676-244-11	s COVER, SW
116	3-685-104-02	s NUT (M6), CONTROL
117	3-692-111-02	s KNOB, RE
118	3-703-078-02	s NUT
119	3-869-883-01	s RUBER, DROP PROTECTION
	7-628-253-15	s SCREW, +PS 2X5
	7-628-254-05	s SCREW, +PS 2.6X5
	7-682-261-09	s SCREW, +K 4X8
	7-682-947-01	s SCREW, +PSW 3X6
	7-685-533-14	s SCREW, +BTP 2.6X6 TYPE2 N-S

# Tilt Table Block



No.	Part No.	SP	Description
201	A-7612-405-D	s	SHOE ASSY, V EDGE
202	X-2149-579-1	s	SHAFT(L) ASSY, ARM LIFT
203	X-2149-580-1	s	PLATE ASSY, PIN
204	X-2149-581-1	s	SHAFT ASSY, PAN
205	1-964-354-11	s	HARNES, SUB (VF CONNECTION)
206	2-888-261-01	s	LEVER, PAN LOCK
207	2-888-264-01	s	SHAFT (L), TILT
208	2-888-265-01	s	SHAFT (R), TILT
209	2-888-266-01	s	COVER (L), ARM
210	2-888-269-01	s	SHEET, PAN
211	2-888-271-01	s	SHAFT(R), ARM LIFT
212	3-080-203-41	s	SREW(M2), LOCK ACE,P2
213	3-167-481-02	o	TILT LOCK LEVER
214	3-167-482-11	o	SCREW, LOCK, TILT
215	3-167-487-01	o	SPRING, PLATE
216	3-167-513-01	o	KNOB, RELEASE LEVER
217	3-169-580-02	s	WASHER, THRUST
218	3-173-371-02	s	SCREW, PUNCHING STOPPER
219	3-345-461-01	s	SCREW (+K) (2.6X6)
220	3-364-941-01	s	SCREW (+B) (2.6X5), NYLOK
221	3-625-379-01	s	KNOB, ARM LOCKING
222	3-625-381-02	s	RETAINER, PIN PLATE
223	3-625-384-01	o	LABEL, LOCKING KNOB
224	3-626-824-01	o	SPACER, DROP PROTECTION
225	3-679-659-05	s	CLAMP, CABLE
226	3-694-181-03	s	TYPE1, AROCK PRECISION +P2.6X5
227	3-701-447-21	s	WASHER, 10
228	3-701-512-01	s	SET SCREW, DOUBLE POINT, (M4X8)
229	3-716-391-02	o	WEDGE, MOUNTING
230	3-951-828-01	s	SPRING, COMPRESSION
231	4-218-253-32	s	SCREW (M2.6), +BTTP
	7-623-710-87	s	WASHER 16, WAVE TYPE
	7-623-710-97	s	WASHER 18, WAVE TYPE
	7-624-106-04	s	STOP RING 3.0, TYPE -E
	7-627-553-38	s	SCREW, PRECISION +P 2X3
	7-682-561-09	s	SCREW +B 4X8

### 4-3. Electrical Parts List

#### LE-315 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1137-282-A	s MOUNTED CIRCUIT BOARD, LE-315
CN1	1-764-088-21	o PIN, CONNECTOR (PC BOARD) 3P
D1	8-719-023-51	s DIODE MU03-2201
D2	6-501-390-01	s DIODE MU03-5202
D3	8-719-023-51	s DIODE MU03-2201

#### LE-316 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1137-283-A	s MOUNTED CIRCUIT BOARD, LE-316
CN1	1-764-088-21	o PIN, CONNECTOR (PC BOARD) 3P
D1	8-719-023-51	s DIODE MU03-2201
D2	6-501-390-01	s DIODE MU03-5202
D3	8-719-023-51	s DIODE MU03-2201

#### LE-317 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1137-284-A	s MOUNTED CIRCUIT BOARD, LE-317
C1	1-126-399-21	s CAP, CHIP ELECT 10MF (5X5.7)
C2	1-126-399-21	s CAP, CHIP ELECT 10MF (5X5.7)
C3	1-126-399-21	s CAP, CHIP ELECT 10MF (5X5.7)
CN1	1-784-435-21	o CONNECTOR, BOARD TO BOARD 30P
D1	8-719-053-96	s DIODE CL-200HR-C-TUL
D2	8-719-053-96	s DIODE CL-200HR-C-TUL
D3	8-719-053-96	s DIODE CL-200HR-C-TUL
D4	8-719-053-96	s DIODE CL-200HR-C-TUL
D5	8-719-053-96	s DIODE CL-200HR-C-TUL
D6	8-719-053-96	s DIODE CL-200HR-C-TUL
D7	8-719-053-96	s DIODE CL-200HR-C-TUL
D8	8-719-053-96	s DIODE CL-200HR-C-TUL
D9	8-719-053-96	s DIODE CL-200HR-C-TUL
D10	8-719-053-96	s DIODE CL-200HR-C-TUL
D11	8-719-053-96	s DIODE CL-200HR-C-TUL
D12	8-719-053-96	s DIODE CL-200HR-C-TUL
D13	8-719-053-96	s DIODE CL-200HR-C-TUL
D14	8-719-053-96	s DIODE CL-200HR-C-TUL
D15	8-719-053-96	s DIODE CL-200HR-C-TUL
D16	8-719-053-96	s DIODE CL-200HR-C-TUL
Q1	8-729-209-77	s TRANSISTOR 2SC2873Y-TE12L
Q2	8-729-209-77	s TRANSISTOR 2SC2873Y-TE12L
Q3	8-729-209-77	s TRANSISTOR 2SC2873Y-TE12L
Q4	8-729-209-77	s TRANSISTOR 2SC2873Y-TE12L
Q14	8-729-928-25	s TRANSISTOR 2SA1774TL-QR
Q15	8-729-928-82	s TRANSISTOR DTC144EE-TL
Q16	8-729-928-05	s TRANSISTOR 2SC4617TL-QR
R1	1-208-859-81	s RES, CHIP 68 (1005)
R2	1-208-859-81	s RES, CHIP 68 (1005)
R3	1-208-859-81	s RES, CHIP 68 (1005)
R4	1-208-859-81	s RES, CHIP 68 (1005)
R14	1-218-602-91	s RES, METAL FILM (CHIP) 1
R16	1-208-891-81	s RES, CHIP 1.5K (1005)
R17	1-208-911-81	s RES, CHIP 10K (1005)
R18	1-208-911-81	s RES, CHIP 10K (1005)
R19	1-208-911-81	s RES, CHIP 10K (1005)
R20	1-208-891-81	s RES, CHIP 1.5K (1005)
R21	1-208-895-81	s RES, CHIP 2.2K (1005)

PR-292 BOARD

(PR-292 BOARD)

Ref. No. or Q'ty	Part No.	SP Description	Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1211-827-A	s MOUNTED CIRCUIT BOARD, PR-292	C214	1-112-777-11	s CAP, CERAMIC 0.01MF X7R 1005
1pc	6-706-771-01	s IC CY22395FZXC-T1	C216	1-164-840-81	s CAP, CHIP CERAMIC 1PF CK 1005
3pcs	7-628-253-15	s SCREW +PS 2X5	C217	1-164-840-81	s CAP, CHIP CERAMIC 1PF CK 1005
C1	1-100-907-11	s CAP, CERAMIC 0.1MF X7R 1005	C218	1-164-850-81	s CAP, CHIP CERAMIC 10PF CH 1005
C2	1-112-777-11	s CAP, CERAMIC 0.01MF X7R 1005	C219	1-100-907-11	s CAP, CERAMIC 0.1MF X7R 1005
C3	1-135-960-91	s CAP, CHIP CERAMIC 10MF B(3225)	C220	1-100-907-11	s CAP, CERAMIC 0.1MF X7R 1005
C4	1-112-691-11	s CAP, CERAMIC 22MF R 3225	C221	1-100-907-11	s CAP, CERAMIC 0.1MF X7R 1005
C5	1-100-907-11	s CAP, CERAMIC 0.1MF X7R 1005	C222	1-164-878-81	s CAP, CHIP CERAMIC 150PF CH 1005
C6	1-112-691-11	s CAP, CERAMIC 22MF R 3225	C223	1-112-064-11	s CAP, CERAMIC 2.2MF X7R 2012
C7	1-100-907-11	s CAP, CERAMIC 0.1MF X7R 1005	C224	1-164-850-81	s CAP, CHIP CERAMIC 10PF CH 1005
C8	1-112-691-11	s CAP, CERAMIC 22MF R 3225	C225	1-164-850-81	s CAP, CHIP CERAMIC 10PF CH 1005
C10	1-100-907-11	s CAP, CERAMIC 0.1MF X7R 1005	C226	1-100-907-11	s CAP, CERAMIC 0.1MF X7R 1005
C11	1-100-907-11	s CAP, CERAMIC 0.1MF X7R 1005	C227	1-100-907-11	s CAP, CERAMIC 0.1MF X7R 1005
C12	1-112-691-11	s CAP, CERAMIC 22MF R 3225	C228	1-100-907-11	s CAP, CERAMIC 0.1MF X7R 1005
C13	1-100-907-11	s CAP, CERAMIC 0.1MF X7R 1005	C229	1-100-907-11	s CAP, CERAMIC 0.1MF X7R 1005
C15	1-112-691-11	s CAP, CERAMIC 22MF R 3225	C230	1-100-907-11	s CAP, CERAMIC 0.1MF X7R 1005
C16	1-112-691-11	s CAP, CERAMIC 22MF R 3225	C231	1-100-907-11	s CAP, CERAMIC 0.1MF X7R 1005
C17	1-100-907-11	s CAP, CERAMIC 0.1MF X7R 1005	C232	1-112-064-11	s CAP, CERAMIC 2.2MF X7R 2012
C18	1-112-691-11	s CAP, CERAMIC 22MF R 3225	C233	1-100-907-11	s CAP, CERAMIC 0.1MF X7R 1005
C19	1-112-046-11	s CAP, CERAMIC 4.7MF X6S 2012	C234	1-100-907-11	s CAP, CERAMIC 0.1MF X7R 1005
C20	1-165-872-21	s CAP, ELECT 47MF (5.0X6.5)	C235	1-100-907-11	s CAP, CERAMIC 0.1MF X7R 1005
C21	1-100-907-11	s CAP, CERAMIC 0.1MF X7R 1005	C236	1-164-843-81	s CAP, CHIP CERAMIC 3PF CJ 1005
C22	1-112-691-11	s CAP, CERAMIC 22MF R 3225	C237	1-164-845-81	s CAP, CHIP CERAMIC 5PF CH 1005
C24	1-135-960-91	s CAP, CHIP CERAMIC 10MF B(3225)	C238	1-164-845-81	s CAP, CHIP CERAMIC 5PF CH 1005
C25	1-114-130-11	s CAP, CERAMIC 1MF X6S 1005	C239	1-112-691-11	s CAP, CERAMIC 22MF R 3225
C26	1-165-872-21	s CAP, ELECT 47MF (5.0X6.5)	C240	1-100-907-11	s CAP, CERAMIC 0.1MF X7R 1005
C29	1-112-046-11	s CAP, CERAMIC 4.7MF X6S 2012	C241	1-112-691-11	s CAP, CERAMIC 22MF R 3225
C31	1-100-907-11	s CAP, CERAMIC 0.1MF X7R 1005	C242	1-112-691-11	s CAP, CERAMIC 22MF R 3225
C32	1-100-907-11	s CAP, CERAMIC 0.1MF X7R 1005	C243	1-100-907-11	s CAP, CERAMIC 0.1MF X7R 1005
C33	1-100-907-11	s CAP, CERAMIC 0.1MF X7R 1005	C244	1-100-907-11	s CAP, CERAMIC 0.1MF X7R 1005
C34	1-112-777-11	s CAP, CERAMIC 0.01MF X7R 1005	C245	1-100-907-11	s CAP, CERAMIC 0.1MF X7R 1005
C35	1-112-777-11	s CAP, CERAMIC 0.01MF X7R 1005	C246	1-100-907-11	s CAP, CERAMIC 0.1MF X7R 1005
C36	1-112-777-11	s CAP, CERAMIC 0.01MF X7R 1005	C247	1-100-907-11	s CAP, CERAMIC 0.1MF X7R 1005
C37	1-114-130-11	s CAP, CERAMIC 1MF X6S 1005	C249	1-100-907-11	s CAP, CERAMIC 0.1MF X7R 1005
C43	1-112-691-11	s CAP, CERAMIC 22MF R 3225	C250	1-114-130-11	s CAP, CERAMIC 1MF X6S 1005
C44	1-164-878-81	s CAP, CHIP CERAMIC 150PF CH 1005	C251	1-114-130-11	s CAP, CERAMIC 1MF X6S 1005
C45	1-100-907-11	s CAP, CERAMIC 0.1MF X7R 1005	C252	1-164-848-81	s CAP, CHIP CERAMIC 8PF CH 1005
C47	1-165-872-21	s CAP, ELECT 47MF (5.0X6.5)	C253	1-114-130-11	s CAP, CERAMIC 1MF X6S 1005
C48	1-165-872-21	s CAP, ELECT 47MF (5.0X6.5)	C254	1-112-064-11	s CAP, CERAMIC 2.2MF X7R 2012
C50	1-112-777-11	s CAP, CERAMIC 0.01MF X7R 1005	C255	1-100-907-11	s CAP, CERAMIC 0.1MF X7R 1005
C51	1-100-907-11	s CAP, CERAMIC 0.1MF X7R 1005	C256	1-112-064-11	s CAP, CERAMIC 2.2MF X7R 2012
C52	1-112-691-11	s CAP, CERAMIC 22MF R 3225	C257	1-112-064-11	s CAP, CERAMIC 2.2MF X7R 2012
C53	1-137-894-21	s CAP, ELECT (CHIP TYPE) 470MF	C258	1-112-064-11	s CAP, CERAMIC 2.2MF X7R 2012
C55	1-100-907-11	s CAP, CERAMIC 0.1MF X7R 1005	C259	1-100-907-11	s CAP, CERAMIC 0.1MF X7R 1005
C56	1-112-777-11	s CAP, CERAMIC 0.01MF X7R 1005	C261	1-100-907-11	s CAP, CERAMIC 0.1MF X7R 1005
C57	1-100-907-11	s CAP, CERAMIC 0.1MF X7R 1005	C262	1-112-691-11	s CAP, CERAMIC 22MF R 3225
C58	1-114-130-11	s CAP, CERAMIC 1MF X6S 1005	C263	1-112-691-11	s CAP, CERAMIC 22MF R 3225
C59	1-165-872-21	s CAP, ELECT 47MF (5.0X6.5)	C264	1-112-691-11	s CAP, CERAMIC 22MF R 3225
C60	1-112-777-11	s CAP, CERAMIC 0.01MF X7R 1005	C265	1-100-907-11	s CAP, CERAMIC 0.1MF X7R 1005
C61	1-100-907-11	s CAP, CERAMIC 0.1MF X7R 1005	C266	1-112-064-11	s CAP, CERAMIC 2.2MF X7R 2012
C62	1-112-777-11	s CAP, CERAMIC 0.01MF X7R 1005	C267	1-164-848-81	s CAP, CHIP CERAMIC 8PF CH 1005
C206	1-100-907-11	s CAP, CERAMIC 0.1MF X7R 1005	C269	1-100-907-11	s CAP, CERAMIC 0.1MF X7R 1005
C207	1-112-691-11	s CAP, CERAMIC 22MF R 3225	C270	1-100-907-11	s CAP, CERAMIC 0.1MF X7R 1005
C209	1-100-907-11	s CAP, CERAMIC 0.1MF X7R 1005	C271	1-100-907-11	s CAP, CERAMIC 0.1MF X7R 1005
C210	1-100-907-11	s CAP, CERAMIC 0.1MF X7R 1005	C272	1-100-907-11	s CAP, CERAMIC 0.1MF X7R 1005
C211	1-100-907-11	s CAP, CERAMIC 0.1MF X7R 1005	C273	1-100-907-11	s CAP, CERAMIC 0.1MF X7R 1005
C212	1-112-064-11	s CAP, CERAMIC 2.2MF X7R 2012	C275	1-100-907-11	s CAP, CERAMIC 0.1MF X7R 1005
C213	1-112-064-11	s CAP, CERAMIC 2.2MF X7R 2012	C276	1-100-907-11	s CAP, CERAMIC 0.1MF X7R 1005
			C277	1-100-907-11	s CAP, CERAMIC 0.1MF X7R 1005

## (PR-292 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
C278	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C279	1-112-691-11	s CAP, CERAMIC 22MF R 3225
C280	1-112-064-11	s CAP, CERAMIC 2.2MF X7R 2012
C281	1-114-130-11	s CAP, CERAMIC 1MF X6S 1005
C282	1-114-130-11	s CAP, CERAMIC 1MF X6S 1005
C284	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C285	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C286	1-112-066-11	s CAP, CERAMIC 10MF X7R 3216
C287	1-164-848-81	s CAP, CHIP CERAMIC 8PF CH 1005
C288	1-112-066-11	s CAP, CERAMIC 10MF X7R 3216
C289	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C290	1-114-130-11	s CAP, CERAMIC 1MF X6S 1005
C291	1-112-066-11	s CAP, CERAMIC 10MF X7R 3216
C292	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C293	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C294	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C295	1-164-854-81	s CAP, CHIP CERAMIC 15PF CH 1005
C296	1-112-691-11	s CAP, CERAMIC 22MF R 3225
C300	1-112-064-11	s CAP, CERAMIC 2.2MF X7R 2012
C301	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C302	1-112-067-11	s CAP, CERAMIC 0.22MF X7R 1608
C303	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C304	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C305	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C306	1-112-691-11	s CAP, CERAMIC 22MF R 3225
C307	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C308	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C309	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C311	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C313	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C315	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C317	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C319	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C321	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C323	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C325	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C327	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C329	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C330	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C332	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C334	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C335	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C338	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C339	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C342	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C344	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C346	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C348	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C350	1-112-067-11	s CAP, CERAMIC 0.22MF X7R 1608
C351	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C352	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C354	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C356	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C358	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C360	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C362	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C364	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C365	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C366	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005

## (PR-292 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
C367	1-112-691-11	s CAP, CERAMIC 22MF R 3225
C368	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C369	1-112-691-11	s CAP, CERAMIC 22MF R 3225
C370	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C371	1-112-778-11	s CAP, CERAMIC 0.022MF X7R 1005
C372	1-114-130-11	s CAP, CERAMIC 1MF X6S 1005
C373	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C374	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C375	1-112-691-11	s CAP, CERAMIC 22MF R 3225
C376	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C377	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C378	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C380	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C381	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C382	1-112-064-11	s CAP, CERAMIC 2.2MF X7R 2012
C383	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C384	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C385	1-165-872-21	s CAP, ELECT 47MF (5.0X6.5)
C386	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C387	1-112-691-11	s CAP, CERAMIC 22MF R 3225
C388	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C389	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C391	1-112-692-81	s CAP,CHIP CERAMIC1000PF CH 1005
C392	1-112-692-81	s CAP,CHIP CERAMIC1000PF CH 1005
C393	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C395	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C396	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C397	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C398	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C400	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C401	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C402	1-165-872-21	s CAP, ELECT 47MF (5.0X6.5)
C404	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C405	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C406	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C407	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C408	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C430	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C431	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C432	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C433	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C434	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C435	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C436	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C437	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C438	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C439	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C440	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C441	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C442	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C443	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C444	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C445	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C446	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C447	1-114-130-11	s CAP, CERAMIC 1MF X6S 1005
C448	1-114-130-11	s CAP, CERAMIC 1MF X6S 1005
C449	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C450	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C451	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005





## (PR-292 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C653	1-100-907-11	s	CAP,CERAMIC 0.1MF X7R 1005
C700	1-107-420-21	s	CAP, CHIP ELECT 47MF
C701	1-107-420-21	s	CAP, CHIP ELECT 47MF
C702	1-112-691-11	s	CAP, CERAMIC 22MF R 3225
C703	1-100-907-11	s	CAP,CERAMIC 0.1MF X7R 1005
C704	1-100-907-11	s	CAP,CERAMIC 0.1MF X7R 1005
C705	1-100-907-11	s	CAP,CERAMIC 0.1MF X7R 1005
C706	1-164-843-81	s	CAP, CHIP CERAMIC 3PF CJ 1005
C707	1-100-907-11	s	CAP,CERAMIC 0.1MF X7R 1005
C709	1-100-907-11	s	CAP,CERAMIC 0.1MF X7R 1005
C720	1-107-420-21	s	CAP, CHIP ELECT 47MF
C721	1-165-872-21	s	CAP, ELECT 47MF (5.0X6.5)
C722	1-107-420-21	s	CAP, CHIP ELECT 47MF
C723	1-107-420-21	s	CAP, CHIP ELECT 47MF
C728	1-112-691-11	s	CAP, CERAMIC 22MF R 3225
CN1	1-764-099-21	s	PIN, CONNECTOR (PC BOARD) 14P
CN2	1-695-210-21	o	PIN, CONNECTOR (PC BOARD) 15P
CN5	1-785-947-21	s	PIN, CONNECTOR (PC BOARD) 31P
CN6	1-764-093-21	o	PIN, CONNECTOR (PC BOARD) 8P
CN7	1-784-241-21	o	CONNECTOR, BOARD TO BOARD 30P
CN8	1-695-208-21	o	PIN, CONNECTOR (PC BOARD) 7P
CN9	1-695-207-21	o	PIN, AONNECTOR (PC BOARD) 6P
CN10	1-764-089-21	o	PIN, CONNECTOR (PC BOARD) 4P
CN11	1-764-078-21	s	PIN, CONNECTOR (PC BOARD) 3P
CN12	1-764-078-21	s	PIN, CONNECTOR (PC BOARD) 3P
CN13	1-573-290-21	s	PIN, CONNECTOR (1.5MM) (SMD)4P
CN14	1-764-080-21	o	PIN, CONNECTOR (PC BOARD) 8P
D1	8-719-017-03	s	DIODE 02DZ4.7-TPH3
D300	8-719-074-31	s	DIODE CL-196YG-CD-T
D301	8-719-074-31	s	DIODE CL-196YG-CD-T
D302	8-719-074-31	s	DIODE CL-196YG-CD-T
D304	8-719-941-84	s	DIODE DA204UT106
D305	8-719-941-84	s	DIODE DA204UT106
E1	1-535-877-22	s	CHIP, CHECKER
E2	1-535-877-22	s	CHIP, CHECKER
FB1	1-414-581-21	s	FERRITE, EMI (SMD) (4516)
FB2	1-414-581-21	s	FERRITE, EMI (SMD) (4516)
FB3	1-414-581-21	s	FERRITE, EMI (SMD) (4516)
FB4	1-414-581-21	s	FERRITE, EMI (SMD) (4516)
FB5	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB6	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB7	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB701	1-414-581-21	s	FERRITE, EMI (SMD) (4516)
FB702	1-414-581-21	s	FERRITE, EMI (SMD) (4516)
FL200	1-233-996-21	s	FILTER, LOW PASS
FL201	1-233-996-21	s	FILTER, LOW PASS
FL202	1-233-996-21	s	FILTER, LOW PASS
FL700	1-234-830-21	s	FILTER, EMI (ARRAY)
FL701	1-234-830-21	s	FILTER, EMI (ARRAY)
FL702	1-234-830-21	s	FILTER, EMI (ARRAY)
IC2	8-759-185-42	s	IC LM4040AIM3-2.5
IC3	8-759-347-09	s	IC NJU7034V-TE2
IC4	8-759-662-38	s	IC 74VHCT08AMTCX
IC5	8-759-592-47	s	IC TC7SZ08FU (TE85R)
IC6	6-706-478-01	s	IC TC7SET08FU (T5RSOJF)
IC8	8-759-327-01	s	IC NJM062V (TE2)

## (PR-292 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
IC9	8-759-564-49	s	IC TC7W53FU (TE12R)
IC10	6-706-478-01	s	IC TC7SET08FU (T5RSOJF)
IC11	8-759-327-01	s	IC NJM062V (TE2)
IC200	8-759-447-20	s	IC AD8041ARZ-REEL
IC201	8-759-447-20	s	IC AD8041ARZ-REEL
IC202	8-759-447-20	s	IC AD8041ARZ-REEL
IC203	8-759-447-20	s	IC AD8041ARZ-REEL
IC204	8-759-447-20	s	IC AD8041ARZ-REEL
IC205	8-759-447-20	s	IC AD8041ARZ-REEL
IC206	8-759-655-23	s	IC TC75W57FK (TE85R)
IC207	8-759-347-09	s	IC NJU7034V-TE2
IC208	8-759-447-20	s	IC AD8041ARZ-REEL
IC209	8-759-447-20	s	IC AD8041ARZ-REEL
IC210	8-759-447-20	s	IC AD8041ARZ-REEL
IC211	8-759-287-55	s	IC TC7S66FU (TE85R)
IC212	8-759-287-55	s	IC TC7S66FU (TE85R)
IC213	8-759-287-55	s	IC TC7S66FU (TE85R)
IC214	6-709-733-01	s	IC LTC2239IUH#TR
IC215	6-709-733-01	s	IC LTC2239IUH#TR
IC216	6-709-733-01	s	IC LTC2239IUH#TR
IC217	8-759-592-47	s	IC TC7SZ08FU (TE85R)
IC218	8-759-592-44	s	IC TC7SZ04FU (TE85R)
IC301	8-759-592-44	s	IC TC7SZ04FU (TE85R)
IC302	8-759-592-44	s	IC TC7SZ04FU (TE85R)
IC303	6-709-646-01	s	IC TLC2933AIPWR
IC304	8-759-592-47	s	IC TC7SZ08FU (TE85R)
IC305	6-700-387-01	s	IC EPC2LC20N-TP
IC306	6-806-950-01	s	IC CY22395FZXC-T1-HDVF9P01
IC307	6-710-018-01	s	IC CAT24C02WI-GT3
IC308	8-759-488-34	s	IC TLV2221CDBV
IC309	8-759-330-14	s	IC TL7700CPS-E20
IC310	8-759-829-30	s	IC CY2305SXC-1HT
IC313	8-759-564-49	s	IC TC7W53FU (TE12R)
IC314	6-700-387-01	s	IC EPC2LC20N-TP
IC319	8-759-592-42	s	IC TC7SZ00FU (TE85R)
IC320	8-759-592-44	s	IC TC7SZ04FU (TE85R)
IC321	8-759-592-44	s	IC TC7SZ04FU (TE85R)
IC322	8-759-592-47	s	IC TC7SZ08FU (TE85R)
IC323	8-759-592-47	s	IC TC7SZ08FU (TE85R)
IC328	8-759-592-47	s	IC TC7SZ08FU (TE85R)
IC500	6-707-726-01	s	IC EDS6432AFTA-6B-E
IC501	6-707-726-01	s	IC EDS6432AFTA-6B-E
IC600	6-703-421-01	s	IC HD64F7145F50
IC601	6-706-088-01	s	IC UPD6467GR-560-E2
IC602	8-759-287-55	s	IC TC7S66FU (TE85R)
IC603	8-759-592-47	s	IC TC7SZ08FU (TE85R)
IC604	8-759-287-55	s	IC TC7S66FU (TE85R)
IC605	8-759-592-47	s	IC TC7SZ08FU (TE85R)
IC606	6-710-021-01	s	IC CAT24C16WI-GT3
IC607	8-759-592-47	s	IC TC7SZ08FU (TE85R)
IC608	8-759-592-47	s	IC TC7SZ08FU (TE85R)
IC609	6-707-870-01	s	IC TC74VHC157FT (EKJ)
IC610	8-759-656-54	s	IC TC7WH14FK (TE85R)
IC611	6-704-832-01	s	IC IS61LV6416-10TLT
IC612	6-706-478-01	s	IC TC7SET08FU (T5RSOJF)
IC613	6-707-868-01	s	IC TC74VHC138FT (EKJ)
IC614	8-759-672-76	s	IC AK9813BF-E2
IC615	6-708-016-01	s	IC LM75BIMX-3/NOPB
IC700	6-701-098-11	s	IC THC63LVDM83R-T

## (PR-292 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
L1	1-416-344-21	s	COIL, CHOKE 10UH
L3	1-414-394-41	s	INDUCTOR (SMD) 2.2UH
L5	1-414-394-41	s	INDUCTOR (SMD) 2.2UH
L6	1-416-344-21	s	COIL, CHOKE 10UH
L200	1-414-394-41	s	INDUCTOR (SMD) 2.2UH
L201	1-414-754-91	s	INDUCTOR 10.0UH
L202	1-414-754-91	s	INDUCTOR 10.0UH
L203	1-414-754-91	s	INDUCTOR 10.0UH
L204	1-414-754-91	s	INDUCTOR 10.0UH
L205	1-414-754-91	s	INDUCTOR 10.0UH
L206	1-414-394-41	s	INDUCTOR (SMD) 2.2UH
L207	1-414-754-91	s	INDUCTOR 10.0UH
L300	1-414-398-41	s	INDUCTOR (SMD) 10.0UH
L301	1-414-394-41	s	INDUCTOR (SMD) 2.2UH
L302	1-414-394-41	s	INDUCTOR (SMD) 2.2UH
L303	1-414-394-41	s	INDUCTOR (SMD) 2.2UH
L304	1-414-394-41	s	INDUCTOR (SMD) 2.2UH
L305	1-414-394-41	s	INDUCTOR (SMD) 2.2UH
L306	1-414-394-41	s	INDUCTOR (SMD) 2.2UH
L400	1-414-398-41	s	INDUCTOR (SMD) 10.0UH
L401	1-414-394-41	s	INDUCTOR (SMD) 2.2UH
L402	1-414-394-41	s	INDUCTOR (SMD) 2.2UH
L500	1-416-344-21	s	COIL, CHOKE 10UH
L600	1-414-754-91	s	INDUCTOR 10.0UH
L601	1-414-754-91	s	INDUCTOR 10.0UH
L602	1-414-394-41	s	INDUCTOR (SMD) 2.2UH
L700	1-416-344-21	s	COIL, CHOKE 10UH
L701	1-416-948-21	s	COIL, CHOKE 10UH
L702	1-414-394-41	s	INDUCTOR (SMD) 2.2UH
PS1	△ 1-576-259-21	s	RINK, IC (0.6A/72V)
PS2	△ 1-576-259-21	s	RINK, IC (0.6A/72V)
PS3	△ 1-576-259-21	s	RINK, IC (0.6A/72V)
PS4	△ 1-576-259-21	s	RINK, IC (0.6A/72V)
Q1	8-729-117-36	s	TRANSISTOR 2SC4177-T1L5
Q2	8-729-209-73	s	TRANSISTOR 2SA1213Y-TE12L
Q3	8-729-209-73	s	TRANSISTOR 2SA1213Y-TE12L
Q4	8-729-928-28	s	TRANSISTOR DTA144EE-TL
Q5	8-729-117-36	s	TRANSISTOR 2SC4177-T1L5
Q6	8-729-041-24	s	TRANSISTOR NDS355AN
Q7	8-729-041-24	s	TRANSISTOR NDS355AN
Q8	8-729-928-82	s	TRANSISTOR DTC144EE-TL
Q9	8-729-041-24	s	TRANSISTOR NDS355AN
Q10	8-729-041-23	s	TRANSISTOR NDS356AP
Q11	8-729-928-82	s	TRANSISTOR DTC144EE-TL
Q12	8-729-041-24	s	TRANSISTOR NDS355AN
Q13	8-729-041-23	s	TRANSISTOR NDS356AP
Q14	8-729-209-73	s	TRANSISTOR 2SA1213Y-TE12L
Q15	8-729-117-36	s	TRANSISTOR 2SC4177-T1L5
Q200	8-729-140-64	s	TRANSISTOR 2SA1611T1-M5M6
Q201	8-729-140-64	s	TRANSISTOR 2SA1611T1-M5M6
Q300	8-729-117-36	s	TRANSISTOR 2SC4177-T1L5
Q301	8-729-117-36	s	TRANSISTOR 2SC4177-T1L5
Q302	8-729-928-28	s	TRANSISTOR DTA144EE-TL
Q702	6-551-380-01	s	TRANSISTOR SI4425BDY-T1
Q703	6-551-380-01	s	TRANSISTOR SI4425BDY-T1
Q704	8-729-928-91	s	TRANSISTOR DTC114EE-TL
Q705	8-729-928-91	s	TRANSISTOR DTC114EE-TL
R2	1-218-990-81	s	CONDUCTOR, CHIP (1005)

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Ref. No. or Q'ty	Part No.	SP	Description
R3	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R6	1-208-887-81	s	RES, CHIP 1.0K (1005)
R7	1-208-887-81	s	RES, CHIP 1.0K (1005)
R8	1-208-887-81	s	RES, CHIP 1.0K (1005)
R11	1-208-887-81	s	RES, CHIP 1.0K (1005)
R12	1-208-863-81	s	RES, CHIP 100 (1005)
R13	1-208-907-81	s	RES, CHIP 6.8K (1005)
R14	1-208-911-81	s	RES, CHIP 10K (1005)
R18	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R19	1-218-263-91	s	RES, SQUARE TYPE CHIP 75 (4532)
R20	1-208-887-81	s	RES, CHIP 1.0K (1005)
R21	1-208-887-81	s	RES, CHIP 1.0K (1005)
R22	1-208-935-81	s	RES, CHIP 100K (1005)
R24	1-218-233-91	s	RES, SQUARE TYPE CHIP 47 (4532)
R26	1-218-263-91	s	RES, SQUARE TYPE CHIP 75 (4532)
R27	1-218-263-91	s	RES, SQUARE TYPE CHIP 75 (4532)
R28	1-208-887-81	s	RES, CHIP 1.0K (1005)
R29	1-208-887-81	s	RES, CHIP 1.0K (1005)
R30	1-208-935-81	s	RES, CHIP 100K (1005)
R31	1-218-263-91	s	RES, SQUARE TYPE CHIP 75 (4532)
R32	1-218-233-91	s	RES, SQUARE TYPE CHIP 47 (4532)
R33	1-208-863-81	s	RES, CHIP 100 (1005)
R34	1-218-263-91	s	RES, SQUARE TYPE CHIP 75 (4532)
R35	1-220-250-91	s	RES, SQUARE TYPE CHIP 10 (4532)
R36	1-208-887-81	s	RES, CHIP 1.0K (1005)
R37	1-208-887-81	s	RES, CHIP 1.0K (1005)
R38	1-208-935-81	s	RES, CHIP 100K (1005)
R40	1-218-263-91	s	RES, SQUARE TYPE CHIP 75 (4532)
R41	1-218-263-91	s	RES, SQUARE TYPE CHIP 75 (4532)
R42	1-218-233-91	s	RES, SQUARE TYPE CHIP 47 (4532)
R44	1-208-887-81	s	RES, CHIP 1.0K (1005)
R45	1-208-887-81	s	RES, CHIP 1.0K (1005)
R47	1-218-263-91	s	RES, SQUARE TYPE CHIP 75 (4532)
R48	1-220-250-91	s	RES, SQUARE TYPE CHIP 10 (4532)
R52	1-208-919-81	s	RES, CHIP 22K (1005)
R54	1-208-899-81	s	RES, CHIP 3.3K (1005)
R55	1-208-919-81	s	RES, CHIP 22K (1005)
R56	1-208-923-81	s	RES, CHIP 33K (1005)
R65	1-208-895-81	s	RES, CHIP 2.2K (1005)
R66	1-208-911-81	s	RES, CHIP 10K (1005)
R67	1-208-875-81	s	RES, CHIP 330 (1005)
R68	1-208-915-81	s	RES, CHIP 15K (1005)
R69	1-208-903-81	s	RES, CHIP 4.7K (1005)
R71	1-208-887-81	s	RES, CHIP 1.0K (1005)
R72	1-208-911-81	s	RES, CHIP 10K (1005)
R73	1-208-911-81	s	RES, CHIP 10K (1005)
R74	1-208-887-81	s	RES, CHIP 1.0K (1005)
R100	1-208-887-81	s	RES, CHIP 1.0K (1005)
R101	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R103	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R105	1-208-887-81	s	RES, CHIP 1.0K (1005)
R106	1-220-874-81	s	RES, CHIP 15 (1005)
R107	1-208-859-81	s	RES, CHIP 68 (1005)
R108	1-220-878-81	s	RES, CHIP 22 (1005)
R109	1-220-878-81	s	RES, CHIP 22 (1005)
R110	1-220-878-81	s	RES, CHIP 22 (1005)
R111	1-220-878-81	s	RES, CHIP 22 (1005)
R112	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R113	1-218-990-81	s	CONDUCTOR, CHIP (1005)

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Ref. No. or Q'ty	Part No.	SP Description
R114	1-218-990-81	s CONDUCTOR, CHIP (1005)
R115	1-220-878-81	s RES, CHIP 22 (1005)
R116	1-220-878-81	s RES, CHIP 22 (1005)
R117	1-220-878-81	s RES, CHIP 22 (1005)
R118	1-220-878-81	s RES, CHIP 22 (1005)
R119	1-220-878-81	s RES, CHIP 22 (1005)
R120	1-220-878-81	s RES, CHIP 22 (1005)
R121	1-208-935-81	s RES, CHIP 100K (1005)
R122	1-208-935-81	s RES, CHIP 100K (1005)
R123	1-208-935-81	s RES, CHIP 100K (1005)
R124	1-208-935-81	s RES, CHIP 100K (1005)
R125	1-208-935-81	s RES, CHIP 100K (1005)
R126	1-208-935-81	s RES, CHIP 100K (1005)
R127	1-220-878-81	s RES, CHIP 22 (1005)
R129	1-218-990-81	s CONDUCTOR, CHIP (1005)
R130	1-208-863-81	s RES, CHIP 100 (1005)
R131	1-208-875-81	s RES, CHIP 330 (1005)
R132	1-220-882-81	s RES, CHIP 33 (1005)
R133	1-220-882-81	s RES, CHIP 33 (1005)
R134	1-208-871-81	s RES, CHIP 220 (1005)
R135	1-208-883-81	s RES, CHIP 680 (1005)
R136	1-220-878-81	s RES, CHIP 22 (1005)
R137	1-208-887-81	s RES, CHIP 1.0K (1005)
R138	1-208-887-81	s RES, CHIP 1.0K (1005)
R139	1-218-990-81	s CONDUCTOR, CHIP (1005)
R141	1-218-990-81	s CONDUCTOR, CHIP (1005)
R143	1-220-878-81	s RES, CHIP 22 (1005)
R148	1-208-887-81	s RES, CHIP 1.0K (1005)
R149	1-208-887-81	s RES, CHIP 1.0K (1005)
R150	1-208-887-81	s RES, CHIP 1.0K (1005)
R151	1-218-990-81	s CONDUCTOR, CHIP (1005)
R153	1-218-990-81	s CONDUCTOR, CHIP (1005)
R159	1-208-875-81	s RES, CHIP 330 (1005)
R160	1-208-887-81	s RES, CHIP 1.0K (1005)
R161	1-208-887-81	s RES, CHIP 1.0K (1005)
R162	1-208-887-81	s RES, CHIP 1.0K (1005)
R200	1-208-860-81	s RES, CHIP 75 (1005)
R201	1-208-860-81	s RES, CHIP 75 (1005)
R202	1-208-860-81	s RES, CHIP 75 (1005)
R212	1-208-887-81	s RES, CHIP 1.0K (1005)
R213	1-208-887-81	s RES, CHIP 1.0K (1005)
R214	1-208-887-81	s RES, CHIP 1.0K (1005)
R215	1-208-887-81	s RES, CHIP 1.0K (1005)
R216	1-208-887-81	s RES, CHIP 1.0K (1005)
R217	1-208-887-81	s RES, CHIP 1.0K (1005)
R218	1-208-887-81	s RES, CHIP 1.0K (1005)
R219	1-208-887-81	s RES, CHIP 1.0K (1005)
R220	1-208-887-81	s RES, CHIP 1.0K (1005)
R221	1-208-887-81	s RES, CHIP 1.0K (1005)
R222	1-208-887-81	s RES, CHIP 1.0K (1005)
R223	1-208-887-81	s RES, CHIP 1.0K (1005)
R224	1-208-863-81	s RES, CHIP 100 (1005)
R225	1-218-990-81	s CONDUCTOR, CHIP (1005)
R226	1-218-990-81	s CONDUCTOR, CHIP (1005)
R227	1-218-990-81	s CONDUCTOR, CHIP (1005)
R230	1-218-990-81	s CONDUCTOR, CHIP (1005)
R231	1-218-990-81	s CONDUCTOR, CHIP (1005)
R232	1-208-871-81	s RES, CHIP 220 (1005)
R233	1-208-895-81	s RES, CHIP 2.2K (1005)

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Ref. No. or Q'ty	Part No.	SP Description
R234	1-208-927-81	s RES, CHIP 47K (1005)
R235	1-208-927-81	s RES, CHIP 47K (1005)
R236	1-208-883-81	s RES, CHIP 680 (1005)
R237	1-208-907-81	s RES, CHIP 6.8K (1005)
R238	1-208-887-81	s RES, CHIP 1.0K (1005)
R239	1-208-887-81	s RES, CHIP 1.0K (1005)
R240	1-218-990-81	s CONDUCTOR, CHIP (1005)
R241	1-208-899-81	s RES, CHIP 3.3K (1005)
R242	1-208-899-81	s RES, CHIP 3.3K (1005)
R243	1-208-899-81	s RES, CHIP 3.3K (1005)
R244	1-208-883-81	s RES, CHIP 680 (1005)
R245	1-208-899-81	s RES, CHIP 3.3K (1005)
R246	1-208-891-81	s RES, CHIP 1.5K (1005)
R247	1-208-891-81	s RES, CHIP 1.5K (1005)
R248	1-208-891-81	s RES, CHIP 1.5K (1005)
R249	1-208-935-81	s RES, CHIP 100K (1005)
R250	1-208-903-81	s RES, CHIP 4.7K (1005)
R251	1-208-923-81	s RES, CHIP 33K (1005)
R252	1-208-927-81	s RES, CHIP 47K (1005)
R253	1-208-863-81	s RES, CHIP 100 (1005)
R254	1-218-990-81	s CONDUCTOR, CHIP (1005)
R255	1-218-990-81	s CONDUCTOR, CHIP (1005)
R256	1-208-907-81	s RES, CHIP 6.8K (1005)
R257	1-208-887-81	s RES, CHIP 1.0K (1005)
R258	1-208-891-81	s RES, CHIP 1.5K (1005)
R259	1-218-990-81	s CONDUCTOR, CHIP (1005)
R262	1-208-895-81	s RES, CHIP 2.2K (1005)
R263	1-208-879-81	s RES, CHIP 470 (1005)
R264	1-208-903-81	s RES, CHIP 4.7K (1005)
R265	1-208-915-81	s RES, CHIP 15K (1005)
R266	1-208-887-81	s RES, CHIP 1.0K (1005)
R267	1-208-863-81	s RES, CHIP 100 (1005)
R268	1-208-863-81	s RES, CHIP 100 (1005)
R269	1-208-875-81	s RES, CHIP 330 (1005)
R270	1-208-875-81	s RES, CHIP 330 (1005)
R271	1-208-875-81	s RES, CHIP 330 (1005)
R272	1-208-887-81	s RES, CHIP 1.0K (1005)
R273	1-208-887-81	s RES, CHIP 1.0K (1005)
R274	1-208-871-81	s RES, CHIP 220 (1005)
R275	1-208-871-81	s RES, CHIP 220 (1005)
R276	1-208-923-81	s RES, CHIP 33K (1005)
R277	1-208-923-81	s RES, CHIP 33K (1005)
R278	1-208-879-81	s RES, CHIP 470 (1005)
R279	1-208-879-81	s RES, CHIP 470 (1005)
R280	1-208-891-81	s RES, CHIP 1.5K (1005)
R281	1-208-903-81	s RES, CHIP 4.7K (1005)
R282	1-220-870-81	s RES, CHIP 10 (1005)
R283	1-208-883-81	s RES, CHIP 680 (1005)
R284	1-208-903-81	s RES, CHIP 4.7K (1005)
R285	1-218-990-81	s CONDUCTOR, CHIP (1005)
R286	1-208-911-81	s RES, CHIP 10K (1005)
R287	1-208-911-81	s RES, CHIP 10K (1005)
R288	1-208-887-81	s RES, CHIP 1.0K (1005)
R289	1-208-895-81	s RES, CHIP 2.2K (1005)
R290	1-208-911-81	s RES, CHIP 10K (1005)
R291	1-208-911-81	s RES, CHIP 10K (1005)
R292	1-208-951-81	s RES, CHIP 470K (1005)
R293	1-220-882-81	s RES, CHIP 33 (1005)
R294	1-208-883-81	s RES, CHIP 680 (1005)

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Ref. No. or Q'ty	Part No.	SP	Description
R295	1-208-887-81	s	RES, CHIP 1.0K (1005)
R296	1-208-887-81	s	RES, CHIP 1.0K (1005)
R297	1-208-855-81	s	RES, CHIP 47 (1005)
R298	1-208-855-81	s	RES, CHIP 47 (1005)
R299	1-208-855-81	s	RES, CHIP 47 (1005)
R300	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R301	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R302	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R303	1-208-911-81	s	RES, CHIP 10K (1005)
R304	1-208-863-81	s	RES, CHIP 100 (1005)
R305	1-208-887-81	s	RES, CHIP 1.0K (1005)
R306	1-208-855-81	s	RES, CHIP 47 (1005)
R307	1-208-855-81	s	RES, CHIP 47 (1005)
R348	1-208-911-81	s	RES, CHIP 10K (1005)
R349	1-208-911-81	s	RES, CHIP 10K (1005)
R350	1-208-855-81	s	RES, CHIP 47 (1005)
R351	1-208-911-81	s	RES, CHIP 10K (1005)
R352	1-208-935-81	s	RES, CHIP 100K (1005)
R354	1-208-855-81	s	RES, CHIP 47 (1005)
R355	1-208-887-81	s	RES, CHIP 1.0K (1005)
R356	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R357	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R358	1-208-935-81	s	RES, CHIP 100K (1005)
R359	1-208-855-81	s	RES, CHIP 47 (1005)
R360	1-208-935-81	s	RES, CHIP 100K (1005)
R361	1-208-855-81	s	RES, CHIP 47 (1005)
R362	1-220-878-81	s	RES, CHIP 22 (1005)
R363	1-208-935-81	s	RES, CHIP 100K (1005)
R364	1-208-935-81	s	RES, CHIP 100K (1005)
R365	1-220-878-81	s	RES, CHIP 22 (1005)
R366	1-208-935-81	s	RES, CHIP 100K (1005)
R368	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R369	1-208-935-81	s	RES, CHIP 100K (1005)
R370	1-208-935-81	s	RES, CHIP 100K (1005)
R371	1-208-935-81	s	RES, CHIP 100K (1005)
R372	1-208-935-81	s	RES, CHIP 100K (1005)
R373	1-208-935-81	s	RES, CHIP 100K (1005)
R374	1-208-935-81	s	RES, CHIP 100K (1005)
R375	1-220-882-81	s	RES, CHIP 33 (1005)
R377	1-208-887-81	s	RES, CHIP 1.0K (1005)
R378	1-208-935-81	s	RES, CHIP 100K (1005)
R379	1-208-935-81	s	RES, CHIP 100K (1005)
R380	1-208-935-81	s	RES, CHIP 100K (1005)
R381	1-208-935-81	s	RES, CHIP 100K (1005)
R382	1-208-935-81	s	RES, CHIP 100K (1005)
R383	1-208-935-81	s	RES, CHIP 100K (1005)
R384	1-220-882-81	s	RES, CHIP 33 (1005)
R385	1-220-882-81	s	RES, CHIP 33 (1005)
R386	1-208-863-81	s	RES, CHIP 100 (1005)
R389	1-208-887-81	s	RES, CHIP 1.0K (1005)
R390	1-208-935-81	s	RES, CHIP 100K (1005)
R391	1-208-903-81	s	RES, CHIP 4.7K (1005)
R392	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R395	1-208-899-81	s	RES, CHIP 3.3K (1005)
R396	1-208-857-81	s	RES, CHIP 56 (1005)
R397	1-208-855-81	s	RES, CHIP 47 (1005)
R401	1-208-939-81	s	RES, CHIP 150K (1005)
R402	1-208-919-81	s	RES, CHIP 22K (1005)
R403	1-208-915-81	s	RES, CHIP 15K (1005)

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Ref. No. or Q'ty	Part No.	SP	Description
R404	1-208-887-81	s	RES, CHIP 1.0K (1005)
R405	1-208-855-81	s	RES, CHIP 47 (1005)
R406	1-220-878-81	s	RES, CHIP 22 (1005)
R410	1-208-871-81	s	RES, CHIP 220 (1005)
R411	1-208-871-81	s	RES, CHIP 220 (1005)
R412	1-208-871-81	s	RES, CHIP 220 (1005)
R414	1-208-899-81	s	RES, CHIP 3.3K (1005)
R415	1-208-855-81	s	RES, CHIP 47 (1005)
R417	1-208-887-81	s	RES, CHIP 1.0K (1005)
R418	1-208-899-81	s	RES, CHIP 3.3K (1005)
R419	1-208-859-81	s	RES, CHIP 68 (1005)
R420	1-220-878-81	s	RES, CHIP 22 (1005)
R421	1-208-899-81	s	RES, CHIP 3.3K (1005)
R422	1-208-927-81	s	RES, CHIP 47K (1005)
R423	1-208-951-81	s	RES, CHIP 470K (1005)
R424	1-208-951-81	s	RES, CHIP 470K (1005)
R429	1-208-899-81	s	RES, CHIP 3.3K (1005)
R431	1-208-907-81	s	RES, CHIP 6.8K (1005)
R432	1-208-863-81	s	RES, CHIP 100 (1005)
R433	1-208-863-81	s	RES, CHIP 100 (1005)
R434	1-208-907-81	s	RES, CHIP 6.8K (1005)
R435	1-208-935-81	s	RES, CHIP 100K (1005)
R437	1-208-935-81	s	RES, CHIP 100K (1005)
R471	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R475	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R476	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R477	1-208-911-81	s	RES, CHIP 10K (1005)
R479	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R486	1-208-911-81	s	RES, CHIP 10K (1005)
R488	1-208-887-81	s	RES, CHIP 1.0K (1005)
R489	1-208-911-81	s	RES, CHIP 10K (1005)
R490	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R491	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R502	1-208-911-81	s	RES, CHIP 10K (1005)
R505	1-208-911-81	s	RES, CHIP 10K (1005)
R506	1-208-911-81	s	RES, CHIP 10K (1005)
R509	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R510	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R512	1-220-870-81	s	RES, CHIP 10 (1005)
R513	1-220-870-81	s	RES, CHIP 10 (1005)
R600	1-208-935-81	s	RES, CHIP 100K (1005)
R601	1-208-935-81	s	RES, CHIP 100K (1005)
R602	1-208-911-81	s	RES, CHIP 10K (1005)
R603	1-208-911-81	s	RES, CHIP 10K (1005)
R604	1-208-911-81	s	RES, CHIP 10K (1005)
R605	1-208-911-81	s	RES, CHIP 10K (1005)
R606	1-208-911-81	s	RES, CHIP 10K (1005)
R607	1-208-911-81	s	RES, CHIP 10K (1005)
R608	1-208-911-81	s	RES, CHIP 10K (1005)
R609	1-208-935-81	s	RES, CHIP 100K (1005)
R610	1-208-935-81	s	RES, CHIP 100K (1005)
R611	1-208-903-81	s	RES, CHIP 4.7K (1005)
R612	1-208-935-81	s	RES, CHIP 100K (1005)
R613	1-208-935-81	s	RES, CHIP 100K (1005)
R614	1-208-935-81	s	RES, CHIP 100K (1005)
R615	1-208-935-81	s	RES, CHIP 100K (1005)
R616	1-208-935-81	s	RES, CHIP 100K (1005)
R617	1-208-935-81	s	RES, CHIP 100K (1005)
R618	1-208-935-81	s	RES, CHIP 100K (1005)

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Ref. No. or Q'ty	Part No.	SP Description
R619	1-208-911-81	s RES, CHIP 10K (1005)
R620	1-208-935-81	s RES, CHIP 100K (1005)
R621	1-208-935-81	s RES, CHIP 100K (1005)
R622	1-208-863-81	s RES, CHIP 100 (1005)
R623	1-208-863-81	s RES, CHIP 100 (1005)
R624	1-208-935-81	s RES, CHIP 100K (1005)
R625	1-208-935-81	s RES, CHIP 100K (1005)
R626	1-208-935-81	s RES, CHIP 100K (1005)
R627	1-208-935-81	s RES, CHIP 100K (1005)
R628	1-208-935-81	s RES, CHIP 100K (1005)
R629	1-208-935-81	s RES, CHIP 100K (1005)
R630	1-208-935-81	s RES, CHIP 100K (1005)
R631	1-208-911-81	s RES, CHIP 10K (1005)
R632	1-208-911-81	s RES, CHIP 10K (1005)
R633	1-220-878-81	s RES, CHIP 22 (1005)
R634	1-208-855-81	s RES, CHIP 47 (1005)
R635	1-208-899-81	s RES, CHIP 3.3K (1005)
R636	1-208-871-81	s RES, CHIP 220 (1005)
R637	1-208-911-81	s RES, CHIP 10K (1005)
R639	1-220-878-81	s RES, CHIP 22 (1005)
R640	1-208-907-81	s RES, CHIP 6.8K (1005)
R641	1-208-907-81	s RES, CHIP 6.8K (1005)
R642	1-208-863-81	s RES, CHIP 100 (1005)
R643	1-208-863-81	s RES, CHIP 100 (1005)
R644	1-208-887-81	s RES, CHIP 1.0K (1005)
R646	1-208-911-81	s RES, CHIP 10K (1005)
R647	1-208-911-81	s RES, CHIP 10K (1005)
R649	1-208-911-81	s RES, CHIP 10K (1005)
R651	1-208-863-81	s RES, CHIP 100 (1005)
R652	1-208-863-81	s RES, CHIP 100 (1005)
R654	1-208-911-81	s RES, CHIP 10K (1005)
R655	1-208-855-81	s RES, CHIP 47 (1005)
R659	1-208-863-81	s RES, CHIP 100 (1005)
R660	1-208-863-81	s RES, CHIP 100 (1005)
R661	1-208-863-81	s RES, CHIP 100 (1005)
R662	1-208-911-81	s RES, CHIP 10K (1005)
R663	1-208-863-81	s RES, CHIP 100 (1005)
R664	1-208-911-81	s RES, CHIP 10K (1005)
R665	1-208-863-81	s RES, CHIP 100 (1005)
R666	1-220-878-81	s RES, CHIP 22 (1005)
R667	1-208-911-81	s RES, CHIP 10K (1005)
R669	1-208-935-81	s RES, CHIP 100K (1005)
R670	1-208-935-81	s RES, CHIP 100K (1005)
R671	1-208-863-81	s RES, CHIP 100 (1005)
R672	1-208-863-81	s RES, CHIP 100 (1005)
R673	1-208-911-81	s RES, CHIP 10K (1005)
R674	1-208-911-81	s RES, CHIP 10K (1005)
R675	1-208-863-81	s RES, CHIP 100 (1005)
R676	1-208-863-81	s RES, CHIP 100 (1005)
R677	1-208-887-81	s RES, CHIP 1.0K (1005)
R678	1-208-887-81	s RES, CHIP 1.0K (1005)
R679	1-208-935-81	s RES, CHIP 100K (1005)
R680	1-208-935-81	s RES, CHIP 100K (1005)
R681	1-208-911-81	s RES, CHIP 10K (1005)
R682	1-208-863-81	s RES, CHIP 100 (1005)
R683	1-220-878-81	s RES, CHIP 22 (1005)
R684	1-220-878-81	s RES, CHIP 22 (1005)
R685	1-220-878-81	s RES, CHIP 22 (1005)
R686	1-218-990-81	s CONDUCTOR, CHIP (1005)

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Ref. No. or Q'ty	Part No.	SP Description
R687	1-208-911-81	s RES, CHIP 10K (1005)
R700	1-208-911-81	s RES, CHIP 10K (1005)
R702	1-208-911-81	s RES, CHIP 10K (1005)
R703	1-208-911-81	s RES, CHIP 10K (1005)
R704	1-208-863-81	s RES, CHIP 100 (1005)
R714	1-208-923-81	s RES, CHIP 33K (1005)
R715	1-208-935-81	s RES, CHIP 100K (1005)
R716	1-208-935-81	s RES, CHIP 100K (1005)
R717	1-208-911-81	s RES, CHIP 10K (1005)
R718	1-208-887-81	s RES, CHIP 1.0K (1005)
R719	1-208-887-81	s RES, CHIP 1.0K (1005)
R720	1-208-887-81	s RES, CHIP 1.0K (1005)
R721	1-208-887-81	s RES, CHIP 1.0K (1005)
R723	1-208-911-81	s RES, CHIP 10K (1005)
R724	1-208-911-81	s RES, CHIP 10K (1005)
R725	1-208-935-81	s RES, CHIP 100K (1005)
R726	1-208-935-81	s RES, CHIP 100K (1005)
R727	1-208-935-81	s RES, CHIP 100K (1005)
RB200	1-234-370-21	s RES, NETWORK 22 (1005X4)
RB201	1-234-370-21	s RES, NETWORK 22 (1005X4)
RB202	1-234-370-21	s RES, NETWORK 22 (1005X4)
RB203	1-234-370-21	s RES, NETWORK 22 (1005X4)
RB204	1-234-370-21	s RES, NETWORK 22 (1005X4)
RB205	1-234-370-21	s RES, NETWORK 22 (1005X4)
RB206	1-234-381-21	s RES, NETWORK 100K (1005X4)
RB207	1-234-381-21	s RES, NETWORK 100K (1005X4)
RB208	1-234-381-21	s RES, NETWORK 100K (1005X4)
RB209	1-234-381-21	s RES, NETWORK 100K (1005X4)
RB210	1-234-381-21	s RES, NETWORK 100K (1005X4)
RB211	1-234-381-21	s RES, NETWORK 100K (1005X4)
RB300	1-234-378-21	s RES, NETWORK 10K (1005X4)
RB302	1-234-378-21	s RES, NETWORK 10K (1005X4)
RB304	1-234-378-21	s RES, NETWORK 10K (1005X4)
RB305	1-234-378-21	s RES, NETWORK 10K (1005X4)
RB400	1-234-371-21	s RES, NETWORK 47 (1005X4)
RB401	1-234-371-21	s RES, NETWORK 47 (1005X4)
RB402	1-234-371-21	s RES, NETWORK 47 (1005X4)
RB403	1-234-371-21	s RES, NETWORK 47 (1005X4)
RB404	1-234-371-21	s RES, NETWORK 47 (1005X4)
RB405	1-234-371-21	s RES, NETWORK 47 (1005X4)
RB406	1-234-371-21	s RES, NETWORK 47 (1005X4)
RB407	1-234-371-21	s RES, NETWORK 47 (1005X4)
RB408	1-234-371-21	s RES, NETWORK 47 (1005X4)
RB409	1-234-371-21	s RES, NETWORK 47 (1005X4)
RB410	1-234-371-21	s RES, NETWORK 47 (1005X4)
RB411	1-234-371-21	s RES, NETWORK 47 (1005X4)
RB412	1-234-371-21	s RES, NETWORK 47 (1005X4)
RB413	1-234-371-21	s RES, NETWORK 47 (1005X4)
RB414	1-234-371-21	s RES, NETWORK 47 (1005X4)
RB415	1-234-371-21	s RES, NETWORK 47 (1005X4)
RB416	1-234-371-21	s RES, NETWORK 47 (1005X4)
RB417	1-234-371-21	s RES, NETWORK 47 (1005X4)
RB418	1-234-378-21	s RES, NETWORK 10K (1005X4)
RB419	1-234-378-21	s RES, NETWORK 10K (1005X4)
RB500	1-234-371-21	s RES, NETWORK 47 (1005X4)
RB501	1-234-371-21	s RES, NETWORK 47 (1005X4)
RB502	1-234-371-21	s RES, NETWORK 47 (1005X4)
RB503	1-234-371-21	s RES, NETWORK 47 (1005X4)

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Ref. No. or Q'ty	Part No.	SP	Description
RB504	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB505	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB506	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB507	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB508	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB509	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB510	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB511	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB512	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB513	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB514	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB515	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB600	1-234-378-21	s	RES, NETWORK 10K (1005X4)
RB601	1-234-378-21	s	RES, NETWORK 10K (1005X4)
RB602	1-234-378-21	s	RES, NETWORK 10K (1005X4)
RB603	1-234-378-21	s	RES, NETWORK 10K (1005X4)
RB604	1-234-378-21	s	RES, NETWORK 10K (1005X4)
RB605	1-234-378-21	s	RES, NETWORK 10K (1005X4)
RB606	1-234-378-21	s	RES, NETWORK 10K (1005X4)
RB607	1-234-378-21	s	RES, NETWORK 10K (1005X4)
RB608	1-234-378-21	s	RES, NETWORK 10K (1005X4)
RB609	1-234-378-21	s	RES, NETWORK 10K (1005X4)
RB610	1-234-381-21	s	RES, NETWORK 100K (1005X4)
RB611	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB612	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB613	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB614	1-234-381-21	s	RES, NETWORK 100K (1005X4)
RB615	1-234-381-21	s	RES, NETWORK 100K (1005X4)
RB616	1-234-381-21	s	RES, NETWORK 100K (1005X4)
RB617	1-234-381-21	s	RES, NETWORK 100K (1005X4)
RB618	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB700	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB701	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB702	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB703	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB704	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB705	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB706	1-234-371-21	s	RES, NETWORK 47 (1005X4)
S600	1-692-270-41	s	SWITCH, SLIDE
S601	1-692-271-41	s	SWITCH, SLIDE
TP200	1-535-877-22	s	CHIP, CHECKER
TP201	1-535-877-22	s	CHIP, CHECKER
TP202	1-535-877-22	s	CHIP, CHECKER
X300	1-795-933-11	s	OSCILLATOR (VOLTAGE CONTROL)

## RE-237 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-1211-828-A	s	MOUNTED CIRCUIT BOARD, RE-237
C2	1-100-566-91	s	CAP, CHIP CERAMIC 0.1MF B 1608
C3	1-112-777-11	s	CAP, CERAMIC 0.01MF X7R 1005
C4	1-162-923-91	s	CAP, CERAMIC 47PF CH 1608
C5	1-100-566-91	s	CAP, CHIP CERAMIC 0.1MF B 1608
C6	1-100-566-91	s	CAP, CHIP CERAMIC 0.1MF B 1608
C7	1-112-777-11	s	CAP, CERAMIC 0.01MF X7R 1005
C8	1-112-778-11	s	CAP, CERAMIC 0.022MF X7R 1005
C9	1-112-778-11	s	CAP, CERAMIC 0.022MF X7R 1005
C10	1-100-566-91	s	CAP, CHIP CERAMIC 0.1MF B 1608
C11	1-162-969-91	s	CAP, CERAMIC 6800PF B 1608
C12	1-125-827-91	s	CAP, CHIP CERAMIC 1MF B
C13	1-162-969-91	s	CAP, CERAMIC 6800PF B 1608
C14	1-100-909-11	s	CAP, CERAMIC 10MF X6S 2012
C15	1-100-909-11	s	CAP, CERAMIC 10MF X6S 2012
C16	1-100-909-11	s	CAP, CERAMIC 10MF X6S 2012
C17	1-135-960-91	s	CAP, CHIP CERAMIC 10MF B(3225)
C18	1-135-960-91	s	CAP, CHIP CERAMIC 10MF B(3225)
C19	1-100-566-91	s	CAP, CHIP CERAMIC 0.1MF B 1608
C20	1-100-566-91	s	CAP, CHIP CERAMIC 0.1MF B 1608
C22	1-100-390-21	s	CAP, ELECT 180MF (6.3X6)
C23	1-135-349-21	s	CAP, ELECT 22MF (6.3X6)
C24	1-100-391-21	s	CAP, ELECT 180MF (5X6)
C25	1-112-046-11	s	CAP, CERAMIC 4.7MF X6S 2012
C26	1-100-909-11	s	CAP, CERAMIC 10MF X6S 2012
C27	1-100-909-11	s	CAP, CERAMIC 10MF X6S 2012
C28	1-100-909-11	s	CAP, CERAMIC 10MF X6S 2012
C29	1-100-909-11	s	CAP, CERAMIC 10MF X6S 2012
C30	1-112-777-11	s	CAP, CERAMIC 0.01MF X7R 1005
C31	1-164-874-81	s	CAP,CHIP CERAMIC 100PF CH 1005
C32	1-100-566-91	s	CAP, CHIP CERAMIC 0.1MF B 1608
C33	1-100-909-11	s	CAP, CERAMIC 10MF X6S 2012
C34	1-100-566-91	s	CAP, CHIP CERAMIC 0.1MF B 1608
C35	1-112-778-11	s	CAP, CERAMIC 0.022MF X7R 1005
C36	1-100-566-91	s	CAP, CHIP CERAMIC 0.1MF B 1608
C37	1-100-566-91	s	CAP, CHIP CERAMIC 0.1MF B 1608
C39	1-100-566-91	s	CAP, CHIP CERAMIC 0.1MF B 1608
C40	1-112-777-11	s	CAP, CERAMIC 0.01MF X7R 1005
C41	1-112-777-11	s	CAP, CERAMIC 0.01MF X7R 1005
C42	1-112-046-11	s	CAP, CERAMIC 4.7MF X6S 2012
C43	1-112-046-11	s	CAP, CERAMIC 4.7MF X6S 2012
C44	1-112-046-11	s	CAP, CERAMIC 4.7MF X6S 2012
C45	1-114-214-81	s	CAP,CHIP CERAMIC470PF CH1005
C46	1-112-046-11	s	CAP, CERAMIC 4.7MF X6S 2012
C48	1-112-046-11	s	CAP, CERAMIC 4.7MF X6S 2012
C49	1-115-339-91	s	CAP, CERAMIC 0.1MF B (2012)
C51	1-100-566-91	s	CAP, CHIP CERAMIC 0.1MF B 1608
C52	1-135-960-91	s	CAP, CHIP CERAMIC 10MF B(3225)
C53	1-115-416-91	s	CAP,CHIP CERAMIC1000PF CH 1608
C54	1-115-339-91	s	CAP, CERAMIC 0.1MF B (2012)
C55	1-115-339-91	s	CAP, CERAMIC 0.1MF B (2012)
C56	1-107-491-91	s	CAP, ELECT 1000MF
C57	1-135-349-21	s	CAP, ELECT 22MF (6.3X6)
C58	1-135-349-21	s	CAP, ELECT 22MF (6.3X6)
C59	1-135-960-91	s	CAP, CHIP CERAMIC 10MF B(3225)
C60	1-164-874-81	s	CAP,CHIP CERAMIC 100PF CH 1005
C64	1-135-960-91	s	CAP, CHIP CERAMIC 10MF B(3225)
C65	1-135-960-91	s	CAP, CHIP CERAMIC 10MF B(3225)

## (RE-237 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
C66	1-100-566-91	s CAP, CHIP CERAMIC 0.1MF B 1608
C67	1-100-566-91	s CAP, CHIP CERAMIC 0.1MF B 1608
C68	1-100-390-21	s CAP, ELECT 180MF (6.3X6)
C69	1-100-827-21	s CAP, ELECT 150MF (8X7)
C70	1-100-909-11	s CAP, CERAMIC 10MF X6S 2012
C71	1-100-909-11	s CAP, CERAMIC 10MF X6S 2012
C72	1-135-960-91	s CAP, CHIP CERAMIC 10MF B(3225)
C73	1-100-566-91	s CAP, CHIP CERAMIC 0.1MF B 1608
C74	1-135-960-91	s CAP, CHIP CERAMIC 10MF B(3225)
C75	1-135-960-91	s CAP, CHIP CERAMIC 10MF B(3225)
C76	1-165-681-21	s CAP, ELECT 180MF
C77	1-165-681-21	s CAP, ELECT 180MF
C82	1-112-777-11	s CAP, CERAMIC 0.01MF X7R 1005
C83	1-112-777-11	s CAP, CERAMIC 0.01MF X7R 1005
C84	1-135-960-91	s CAP, CHIP CERAMIC 10MF B(3225)
C85	1-135-960-91	s CAP, CHIP CERAMIC 10MF B(3225)
C86	1-164-878-81	s CAP,CHIP CERAMIC 150PF CH 1005
D1	8-719-069-28	s DIODE 1SS400TE-61
D2	8-719-065-59	s DIODE MBR0530T1
D3	8-719-065-59	s DIODE MBR0530T1
D5	8-719-069-28	s DIODE 1SS400TE-61
D6	8-719-069-28	s DIODE 1SS400TE-61
D7	8-719-069-28	s DIODE 1SS400TE-61
D8	8-719-036-87	s DIODE RD4.7SB-T1
D9	8-719-072-43	s DIODE RB050L-40TE25
D10	8-719-072-43	s DIODE RB050L-40TE25
D11	6-500-693-01	s DIODE DE10SC4S
D12	8-719-037-29	s DIODE RD15SB-T1
D13	8-719-069-28	s DIODE 1SS400TE-61
D17	8-719-037-02	s DIODE RD6.8SB-T1
D18	8-719-069-28	s DIODE 1SS400TE-61
D19	8-719-069-28	s DIODE 1SS400TE-61
D20	8-719-065-59	s DIODE MBR0530T1
D21	8-719-036-91	s DIODE RD5.1SB-T1
E1	1-535-877-22	s CHIP, CHECKER
E2	1-535-877-22	s CHIP, CHECKER
F1	△ 1-576-269-21	s FUSE (SMD) (3.15A/125V)
IC1	6-707-828-01	s IC MM1431ANRE
IC2	8-759-338-95	s IC NJM2903V(Te2)
IC3	6-702-510-01	s IC TPS5120DBTRG4
IC4	6-707-828-01	s IC MM1431ANRE
IC5	8-759-338-95	s IC NJM2903V(Te2)
IC6	8-759-669-64	s IC TL1451ACPWR-12
IC7	8-759-669-64	s IC TL1451ACPWR-12
IC8	8-759-337-40	s IC NJM2904V(Te2)
IC9	6-706-487-01	s IC TC7SH08FU(T5RSOYJF)
IC10	6-706-487-01	s IC TC7SH08FU(T5RSOYJF)
L1	1-419-822-21	s COIL, CHOKE 7UH
L2	1-457-145-11	s CHOKE COIL 5.8UH
L3	1-456-622-21	s COIL, CHOKE 1UH
L4	1-456-622-21	s COIL, CHOKE 1UH
L5	1-400-868-11	s COIL, CHOKE 22UH
L6	1-456-622-21	s COIL, CHOKE 1UH
L7	1-456-622-21	s COIL, CHOKE 1UH
L8	1-419-524-21	s COIL, CHOKE
L9	1-416-510-21	s COIL, CHOKE 100UH
L10	1-400-868-11	s COIL, CHOKE 22UH

## (RE-237 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
L11	1-419-524-21	s COIL, CHOKE
L12	1-456-622-21	s COIL, CHOKE 1UH
L13	1-456-622-21	s COIL, CHOKE 1UH
L14	1-457-145-11	s CHOKE COIL 5.8UH
Q1	8-729-054-67	s TRANSISTOR FDS6690S
Q2	8-729-054-67	s TRANSISTOR FDS6690S
Q3	8-729-929-27	s TRANSISTOR DTC114TE-TL
Q4	8-729-929-27	s TRANSISTOR DTC114TE-TL
Q5	8-729-928-05	s TRANSISTOR 2SC4617TL-QR
Q6	6-551-380-01	s TRANSISTOR SI4425BDY-T1
Q7	8-729-929-27	s TRANSISTOR DTC114TE-TL
Q8	8-729-929-27	s TRANSISTOR DTC114TE-TL
Q9	8-729-929-27	s TRANSISTOR DTC114TE-TL
Q10	8-729-929-27	s TRANSISTOR DTC114TE-TL
Q11	8-729-929-27	s TRANSISTOR DTC114TE-TL
Q12	8-729-928-28	s TRANSISTOR DTA144EE-TL
Q13	8-729-928-82	s TRANSISTOR DTC144EE-TL
Q14	8-729-046-04	s TRANSISTOR FDS6690A
Q15	8-729-046-04	s TRANSISTOR FDS6690A
Q16	8-729-929-27	s TRANSISTOR DTC114TE-TL
Q17	8-729-929-27	s TRANSISTOR DTC114TE-TL
Q18	8-729-929-27	s TRANSISTOR DTC114TE-TL
Q19	8-729-929-27	s TRANSISTOR DTC114TE-TL
Q20	8-729-929-27	s TRANSISTOR DTC114TE-TL
Q21	8-729-928-82	s TRANSISTOR DTC144EE-TL
Q22	8-729-928-05	s TRANSISTOR 2SC4617TL-QR
Q23	8-729-012-34	s TRANSISTOR 2SK711-BL(Te85L)
Q24	8-729-012-34	s TRANSISTOR 2SK711-BL(Te85L)
Q25	8-729-012-34	s TRANSISTOR 2SK711-BL(Te85L)
Q26	8-729-019-12	s TRANSISTOR 2SC3739-T1B12B13B14
Q27	8-729-019-07	s TRANSISTOR 2SA1464-T1Y12Y13Y14
Q28	8-729-019-12	s TRANSISTOR 2SC3739-T1B12B13B14
Q29	8-729-019-07	s TRANSISTOR 2SA1464-T1Y12Y13Y14
Q30	8-729-019-12	s TRANSISTOR 2SC3739-T1B12B13B14
Q31	8-729-019-07	s TRANSISTOR 2SA1464-T1Y12Y13Y14
Q32	6-551-662-01	s TRANSISTOR SI4431BDY-T1-E3
Q33	6-551-662-01	s TRANSISTOR SI4431BDY-T1-E3
Q34	6-550-651-01	s TRANSISTOR FDS5690
Q35	8-729-928-05	s TRANSISTOR 2SC4617TL-QR
Q37	8-729-929-27	s TRANSISTOR DTC114TE-TL
Q38	8-729-928-05	s TRANSISTOR 2SC4617TL-QR
Q39	8-729-928-05	s TRANSISTOR 2SC4617TL-QR
Q40	8-729-928-28	s TRANSISTOR DTA144EE-TL
Q43	8-729-928-82	s TRANSISTOR DTC144EE-TL
R1	1-208-907-81	s RES, CHIP 6.8K (1005)
R2	1-208-919-81	s RES, CHIP 22K (1005)
R3	1-208-907-81	s RES, CHIP 6.8K (1005)
R4	1-208-907-81	s RES, CHIP 6.8K (1005)
R5	1-208-935-81	s RES, CHIP 100K (1005)
R6	1-208-935-81	s RES, CHIP 100K (1005)
R7	1-208-919-81	s RES, CHIP 22K (1005)
R8	1-208-919-81	s RES, CHIP 22K (1005)
R9	1-208-887-81	s RES, CHIP 1.0K (1005)
R10	1-208-907-81	s RES, CHIP 6.8K (1005)
R11	1-208-903-81	s RES, CHIP 4.7K (1005)
R12	1-218-990-81	s CONDUCTOR, CHIP (1005)
R13	1-208-895-81	s RES, CHIP 2.2K (1005)
R14	1-208-871-81	s RES, CHIP 220 (1005)
R15	1-218-990-81	s CONDUCTOR, CHIP (1005)



## (RE-237 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R16	1-208-903-81	s	RES, CHIP 4.7K (1005)
R17	1-208-907-81	s	RES, CHIP 6.8K (1005)
R18	1-208-863-81	s	RES, CHIP 100 (1005)
R19	1-208-863-81	s	RES, CHIP 100 (1005)
R20	1-208-863-81	s	RES, CHIP 100 (1005)
R21	1-208-919-81	s	RES, CHIP 22K (1005)
R22	1-208-931-81	s	RES, CHIP 68K (1005)
R23	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R24	1-208-879-81	s	RES, CHIP 470 (1005)
R25	1-208-911-81	s	RES, CHIP 10K (1005)
R26	1-208-863-81	s	RES, CHIP 100 (1005)
R27	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R28	1-208-911-81	s	RES, CHIP 10K (1005)
R29	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R30	1-208-907-81	s	RES, CHIP 6.8K (1005)
R31	1-208-911-81	s	RES, CHIP 10K (1005)
R32	1-208-887-81	s	RES, CHIP 1.0K (1005)
R33	1-208-927-81	s	RES, CHIP 47K (1005)
R34	1-208-923-81	s	RES, CHIP 33K (1005)
R35	1-208-895-81	s	RES, CHIP 2.2K (1005)
R36	1-208-911-81	s	RES, CHIP 10K (1005)
R37	1-208-923-81	s	RES, CHIP 33K (1005)
R38	1-208-911-81	s	RES, CHIP 10K (1005)
R39	1-208-899-81	s	RES, CHIP 3.3K (1005)
R40	1-208-883-81	s	RES, CHIP 680 (1005)
R41	1-208-899-81	s	RES, CHIP 3.3K (1005)
R42	1-208-883-81	s	RES, CHIP 680 (1005)
R43	1-208-879-81	s	RES, CHIP 470 (1005)
R44	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R45	1-208-919-81	s	RES, CHIP 22K (1005)
R46	1-208-919-81	s	RES, CHIP 22K (1005)
R47	1-208-907-81	s	RES, CHIP 6.8K (1005)
R48	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R49	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R50	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R51	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R52	1-208-907-81	s	RES, CHIP 6.8K (1005)
R53	1-208-907-81	s	RES, CHIP 6.8K (1005)
R54	1-208-927-81	s	RES, CHIP 47K (1005)
R55	1-208-927-81	s	RES, CHIP 47K (1005)
R56	1-208-927-81	s	RES, CHIP 47K (1005)
R58	1-208-911-81	s	RES, CHIP 10K (1005)
R59	1-208-915-81	s	RES, CHIP 15K (1005)
R60	1-208-919-81	s	RES, CHIP 22K (1005)
R62	1-208-879-81	s	RES, CHIP 470 (1005)
R63	1-208-903-81	s	RES, CHIP 4.7K (1005)
R64	1-208-911-81	s	RES, CHIP 10K (1005)
R66	1-208-915-81	s	RES, CHIP 15K (1005)
R67	1-208-915-81	s	RES, CHIP 15K (1005)
R68	1-208-903-81	s	RES, CHIP 4.7K (1005)
R69	1-208-899-81	s	RES, CHIP 3.3K (1005)
R70	1-208-891-81	s	RES, CHIP 1.5K (1005)
R71	1-208-863-81	s	RES, CHIP 100 (1005)
R72	1-208-895-81	s	RES, CHIP 2.2K (1005)
R73	1-208-919-81	s	RES, CHIP 22K (1005)
R74	1-208-911-81	s	RES, CHIP 10K (1005)
R75	1-208-911-81	s	RES, CHIP 10K (1005)
R76	1-208-907-81	s	RES, CHIP 6.8K (1005)
R77	1-208-863-81	s	RES, CHIP 100 (1005)

## (RE-237 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R78	1-208-899-81	s	RES, CHIP 3.3K (1005)
R79	1-208-883-81	s	RES, CHIP 680 (1005)
R80	1-208-903-81	s	RES, CHIP 4.7K (1005)
R81	1-208-903-81	s	RES, CHIP 4.7K (1005)
R82	1-208-863-81	s	RES, CHIP 100 (1005)
R83	1-208-891-81	s	RES, CHIP 1.5K (1005)
R84	1-208-927-81	s	RES, CHIP 47K (1005)
R85	1-208-907-81	s	RES, CHIP 6.8K (1005)
R86	1-208-903-81	s	RES, CHIP 4.7K (1005)
R87	1-208-903-81	s	RES, CHIP 4.7K (1005)
R88	1-208-911-81	s	RES, CHIP 10K (1005)
R89	1-208-919-81	s	RES, CHIP 22K (1005)
R90	1-208-935-81	s	RES, CHIP 100K (1005)
R91	1-208-943-81	s	RES, CHIP 220K (1005)
R93	1-208-927-81	s	RES, CHIP 47K (1005)
R94	1-208-895-81	s	RES, CHIP 2.2K (1005)
R95	1-208-911-81	s	RES, CHIP 10K (1005)
R98	1-208-919-81	s	RES, CHIP 22K (1005)
R99	1-208-899-81	s	RES, CHIP 3.3K (1005)
R100	1-208-927-81	s	RES, CHIP 47K (1005)
R101	1-208-923-81	s	RES, CHIP 33K (1005)
R102	1-208-923-81	s	RES, CHIP 33K (1005)
R103	1-208-887-81	s	RES, CHIP 1.0K (1005)
R104	1-208-915-81	s	RES, CHIP 15K (1005)
R105	1-208-891-81	s	RES, CHIP 1.5K (1005)
R106	1-208-935-81	s	RES, CHIP 100K (1005)
R107	1-208-907-81	s	RES, CHIP 6.8K (1005)
R108	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R109	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R110	1-208-911-81	s	RES, CHIP 10K (1005)
R111	1-208-895-81	s	RES, CHIP 2.2K (1005)
R112	1-208-919-81	s	RES, CHIP 22K (1005)
R113	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R114	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R115	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R116	1-208-923-81	s	RES, CHIP 33K (1005)
R117	1-208-919-81	s	RES, CHIP 22K (1005)
R118	1-208-911-81	s	RES, CHIP 10K (1005)
R119	1-208-907-81	s	RES, CHIP 6.8K (1005)
R120	1-208-859-81	s	RES, CHIP 68 (1005)
R121	1-208-859-81	s	RES, CHIP 68 (1005)
R123	1-208-859-81	s	RES, CHIP 68 (1005)
R124	1-208-927-81	s	RES, CHIP 47K (1005)
R125	1-208-959-81	s	RES, CHIP 1M (1005)
R127	1-208-935-81	s	RES, CHIP 100K (1005)
R128	1-208-919-81	s	RES, CHIP 22K (1005)
R129	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R130	1-208-911-81	s	RES, CHIP 10K (1005)
R131	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R132	1-208-915-81	s	RES, CHIP 15K (1005)
R133	1-208-911-81	s	RES, CHIP 10K (1005)
R134	1-208-911-81	s	RES, CHIP 10K (1005)
R135	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R136	1-208-911-81	s	RES, CHIP 10K (1005)
R137	1-208-935-81	s	RES, CHIP 100K (1005)
R138	1-219-610-21	s	RES, CHIP (SQUARE TYPE) 0.022
R139	1-208-895-81	s	RES, CHIP 2.2K (1005)
R140	1-208-895-81	s	RES, CHIP 2.2K (1005)
R142	1-208-895-81	s	RES, CHIP 2.2K (1005)

(RE-237 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R143	1-208-903-81	s RES, CHIP 4.7K (1005)
R144	1-208-927-81	s RES, CHIP 47K (1005)
R145	1-208-931-81	s RES, CHIP 68K (1005)
R146	1-208-911-81	s RES, CHIP 10K (1005)
R149	1-218-990-81	s CONDUCTOR, CHIP (1005)
R152	1-208-931-81	s RES, CHIP 68K (1005)
R154	1-208-915-81	s RES, CHIP 15K (1005)
R155	1-218-990-81	s CONDUCTOR, CHIP (1005)
R156	1-208-959-81	s RES, CHIP 1M (1005)
R157	1-208-911-81	s RES, CHIP 10K (1005)
R158	1-218-990-81	s CONDUCTOR, CHIP (1005)
R159	1-218-990-81	s CONDUCTOR, CHIP (1005)
R160	1-218-990-81	s CONDUCTOR, CHIP (1005)
R161	1-208-959-81	s RES, CHIP 1M (1005)
R162	1-208-891-81	s RES, CHIP 1.5K (1005)
R164	1-208-927-81	s RES, CHIP 47K (1005)
R165	1-208-911-81	s RES, CHIP 10K (1005)
R168	1-218-990-81	s CONDUCTOR, CHIP (1005)
R169	1-208-911-81	s RES, CHIP 10K (1005)
R170	1-208-895-81	s RES, CHIP 2.2K (1005)
R171	1-218-990-81	s CONDUCTOR, CHIP (1005)
R172	1-208-911-81	s RES, CHIP 10K (1005)
R173	1-208-903-81	s RES, CHIP 4.7K (1005)
R174	1-208-923-81	s RES, CHIP 33K (1005)
R175	1-208-911-81	s RES, CHIP 10K (1005)
R176	1-208-927-81	s RES, CHIP 47K (1005)
R177	1-208-931-81	s RES, CHIP 68K (1005)
R178	1-208-911-81	s RES, CHIP 10K (1005)
R179	1-208-911-81	s RES, CHIP 10K (1005)
R180	1-218-990-81	s CONDUCTOR, CHIP (1005)
R181	1-218-990-81	s CONDUCTOR, CHIP (1005)
R182	1-218-990-81	s CONDUCTOR, CHIP (1005)
R183	1-218-990-81	s CONDUCTOR, CHIP (1005)

SW-1298 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1137-286-A	s MOUNTED CIRCUIT BOARD, SW-1298
C1	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C2	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C3	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C4	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C5	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
EN1	1-467-973-21	s ENCODER, ROTARY
R1	1-208-863-81	s RES, CHIP 100 (1005)
R2	1-208-863-81	s RES, CHIP 100 (1005)
R3	1-208-863-81	s RES, CHIP 100 (1005)
R4	1-208-863-81	s RES, CHIP 100 (1005)
R5	1-208-863-81	s RES, CHIP 100 (1005)
S1	1-553-001-11	s SWITCH, TOGGLE
S2	1-554-088-41	s SWITCH, KEY BOARD

SW-1299 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1141-332-A	s MOUNTED CIRCUIT BOARD, SW-1299
C2	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C3	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
CN1	1-764-089-21	o PIN, CONNECTOR (PC BOARD) 4P
R1	1-208-863-81	s RES, CHIP 100 (1005)
R2	1-208-863-81	s RES, CHIP 100 (1005)
S1	1-571-381-21	s SWITCH, TACTIL (REFLOW TYPE)
S2	1-571-381-21	s SWITCH, TACTIL (REFLOW TYPE)

VR-315 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1137-285-A	s MOUNTED CIRCUIT BOARD, VR-315
C1	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C2	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C3	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
C5	1-100-907-11	s CAP,CERAMIC 0.1MF X7R 1005
CN1	1-764-091-21	o PIN, CONNECTOR (PC BOARD) 6P
R1	1-218-990-81	s CONDUCTOR, CHIP (1005)
R2	1-218-990-81	s CONDUCTOR, CHIP (1005)
R3	1-218-990-81	s CONDUCTOR, CHIP (1005)
R4	1-218-990-81	s CONDUCTOR, CHIP (1005)
R5	1-218-990-81	s CONDUCTOR, CHIP (1005)
RV1	1-238-293-11	s RES, VAR, CARBON 10K
RV2	1-238-293-11	s RES, VAR, CARBON 10K
RV3	1-238-293-11	s RES, VAR, CARBON 10K

#### 4-4. Packing Materials & Supplied Accessories

Ref. No. or Q'ty	Part No.	SP Description
15pcs	1-566-360-21	s TERMINAL, SOLDERLESS (M)
1pc	1-830-631-11	s CORD, CONNECTION (VF)
1pc	2-236-956-02	s SCREW, STEP
1pc	Δ 2-697-741-01	s MANUAL, OPERATION
6pcs	3-080-203-41	s SREW(M2), LOCK ACE, P2
2pcs	3-167-513-01	o KNOB, RELEASE LEVER
1pc	3-546-614-01	s SPRING, COMPRESSION
1pc	3-701-440-21	s WASHER, 3.5
1pc	3-992-443-01	s SPRING, COMPRESSION
1pc	4-027-937-03	s PLATE, NUMBER
5pcs	4-672-834-11	s SCREW, +B EG GRIP
2pcs	7-621-775-40	s SCREW +B 2.6X8
2pcs	7-627-553-38	s SCREW, PRECISION +P 2X3
4pcs	7-627-556-38	s SCREW +P 2.6X4.0
4pcs	7-682-563-09	s SCREW +B 4X12
4pcs	7-683-421-04	o BOLT, HEXAGON SOCKET 4X12
1pc	7-721-130-20	s WRENCH, L (3.0MM)
1pc	A-7612-405-D	s SHOE ASSY, V EDGE
1pc	X-2149-576-1	s HOOD ASSY, INDOOR



## Section 5

# Semiconductor Pin Assignments

The following describes the semiconductor types used in this unit.

For semiconductors marked with page numbers in the index, refer to the corresponding pages in this section.

However, in some cases incompatible types are also listed, therefore, when a part is to be replaced, also refer to the Spare Parts section.

In addition, for semiconductors with ID Nos., refer to the separate CD-ROM titled "Semiconductor Pin Assignments" (Sony Part No. 9-968-546-xx) that allows searching for parts by semiconductor type or ID No.

The semiconductors in the manual or on the CD-ROM are listed by equivalent types. Thus the external view or the index mark indication may differ from the actual type.

Pin assignments and block diagrams are based on the IC manufacturer's data book.

本機に使用されている半導体型名の一覧を下記に示します。索引中、ページが記載されている半導体は、本章の該当ページを参照してください。ただし、互換性のない型名を併記している場合がありますので、部品を交換するときは、Spare Partsの章を参照してください。

また、ID番号が記載されている半導体は、別途発行の "Semiconductor Pin Assignments" CD-ROM版 (ソニー部品番号：9-968-546-xx)を参照してください。半導体型名またはID番号から検索ができます。

マニュアルまたはCD-ROMに掲載されている半導体は、それぞれの機能を等価的に表わしたものです。

外観やインデックスマークの表示方法が実物と異なる場合があります。

ピン配置およびブロック図はICメーカーのデータブックに従いました。

<b>DIODE</b>	<b>Page or ID No.</b>	<b>IC</b>	<b>Page or ID No.</b>
02DZ4.7-TPH3 .....	DC008-04	74VHCT08AMTCX .....	TC74HC08P
DA204UT106 .....	DC001-01	AK9813BF-E2 .....	MB88E346PFV-G-BND-ER
MBR0530T1 .....	DC008-02	EPC2LC20N-TP .....	EPC2LC20
RB050L-40TE25 .....	DC007-01	HD64F7145F50 .....	HD64F7145F50
RD6.8SB-T1 .....	DC008-04	LM4040AIM3-2.5 .....	LM4040BIM3
<b>LED</b>	<b>Page or ID No.</b>		
CL-196YG-CD-T .....	LC001-01	NJM062V(TE2) .....	RC4558
MU03-2201 .....	LR057-02	NJM062V(TE2) .....	RC4558
		NJM2903V(TE2) .....	UA393DC
		NJM2904V(TE2) .....	RC4558
		NJU7034V-TE2 .....	NJU7024M
		TC7SZ00FU(TE85R) .....	TC7S00F
		TC7SZ04FU(TE85R) .....	TC7S04F
		TC7SZ08FU(TE85R) .....	TC7S08F
		TC7W53FU(TE12R) .....	TC4W53FU
		TC7WH14FK(TE85R) .....	TC7W14FU
		THC63LVDM83R-T .....	THC63LVDM83A-T
		TL1451ACPWR-12 .....	TL1451CNS
		TLV2221CDBV .....	TA75S01F
<b>TRANSISTOR</b>	<b>Page or ID No.</b>		
2SA1213Y-TE12L .....	TC002-01		
2SA1611T1-M5M6 .....	TC001-01		
2SK711-BL(TE85L) .....	TC001-05		
DTA144EE-TL .....	TC001-04		
DTC114TE-TL .....	TC001-18		
DTC144EE-TL .....	TC001-03		
FDS6690A .....	TC013-06		
FDS6690S .....	TC013-06		
NDS355AN .....	TC001-07		
NDS356AP .....	TC001-20		

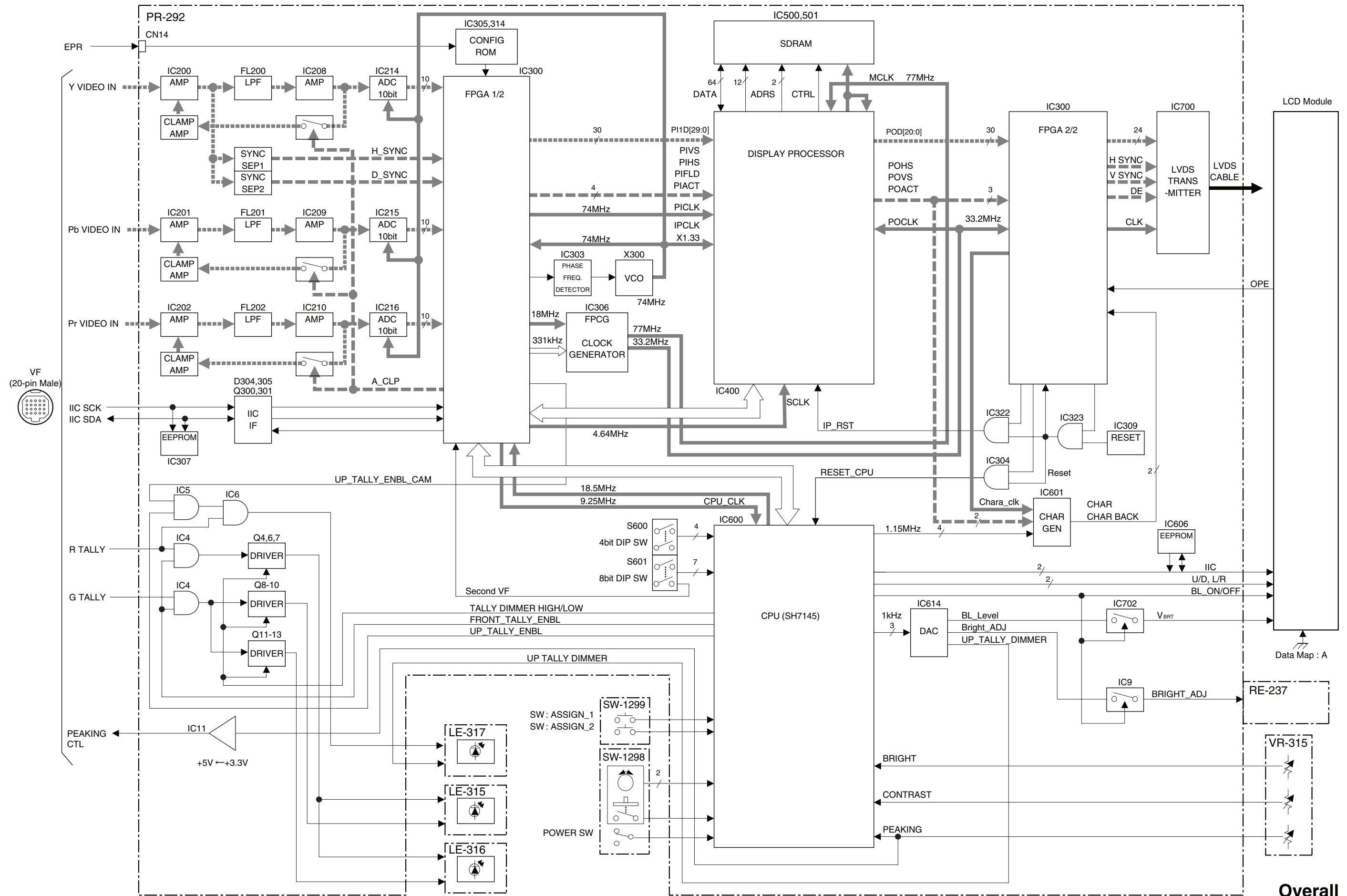


## Section 6 Block Diagrams

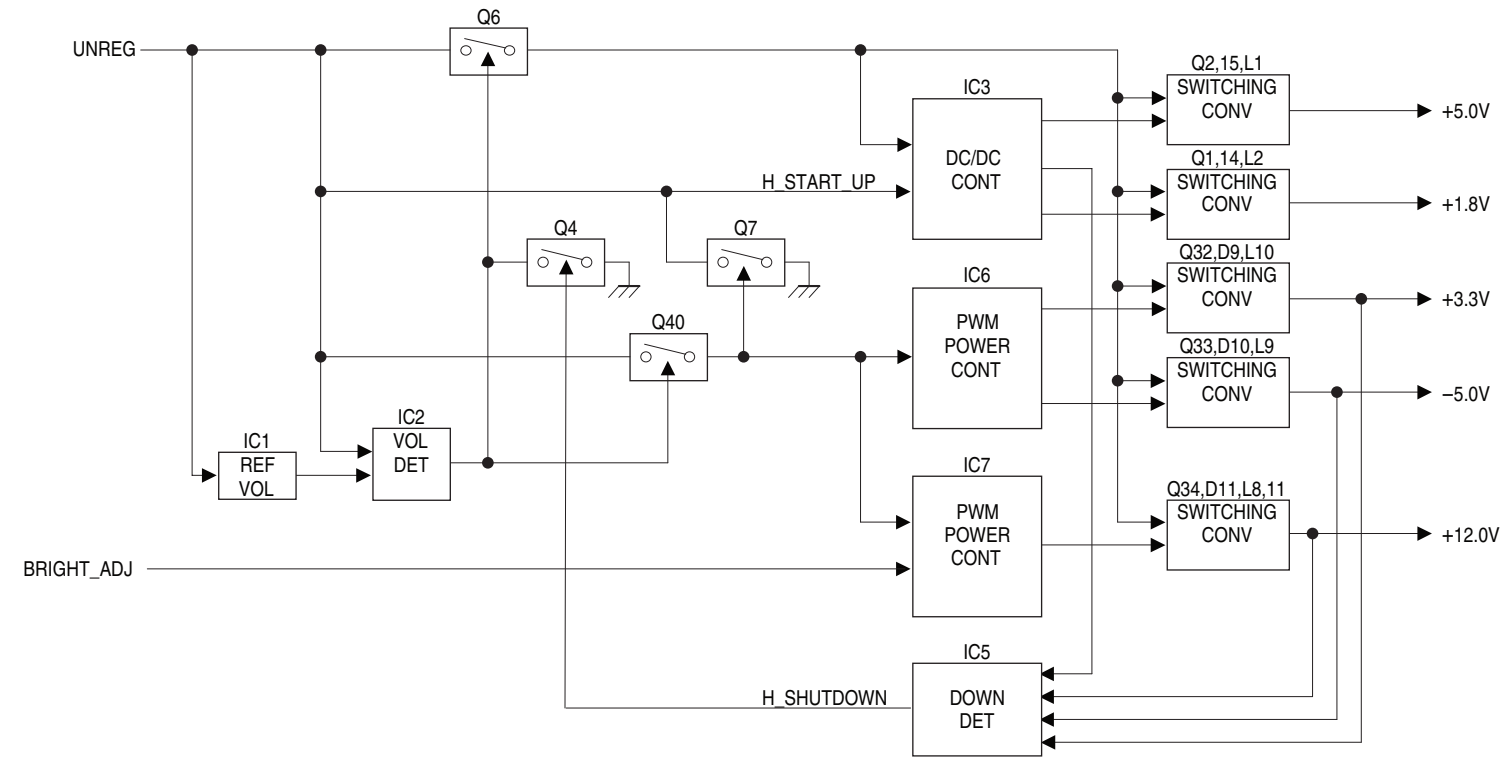
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# Overall Overall





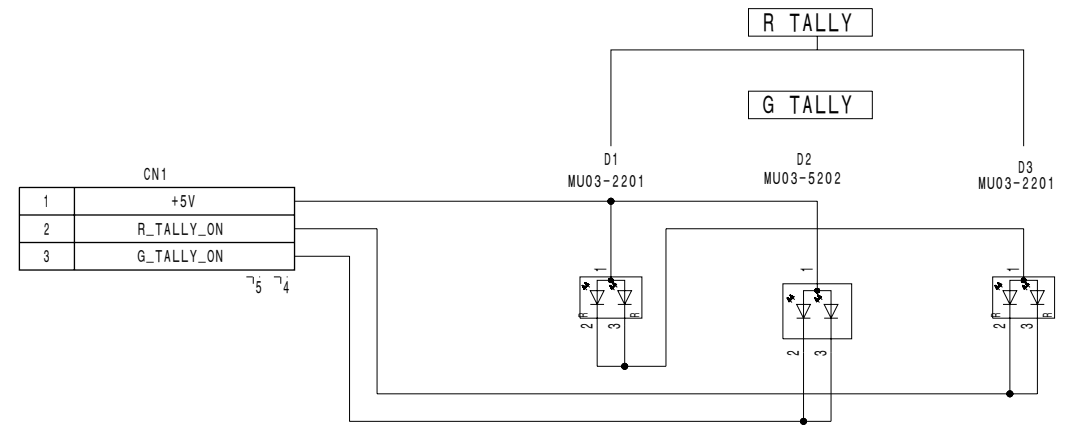




**Section 7**  
**Schematic Diagrams**

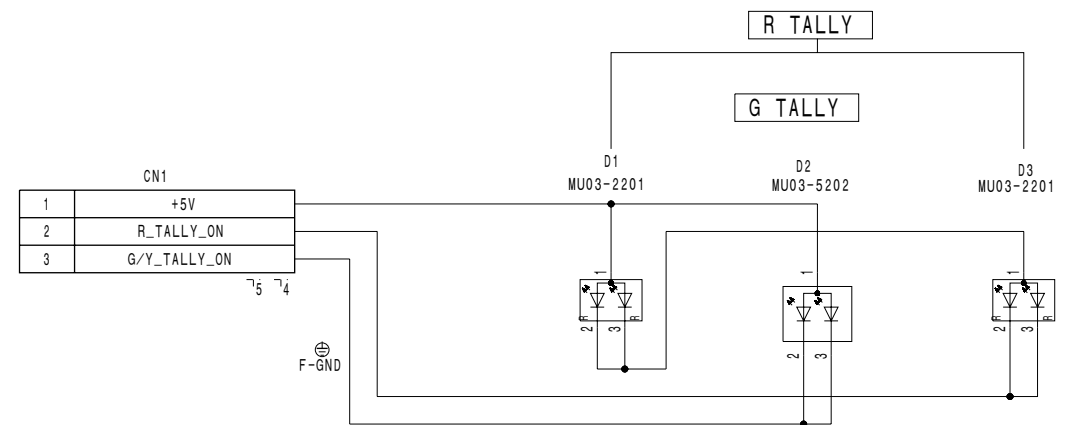
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PR-292	7-3
RE-237	7-10
SW-1298	7-12
SW-1299	7-12
VR-315	7-12
Frame Wiring	7-13



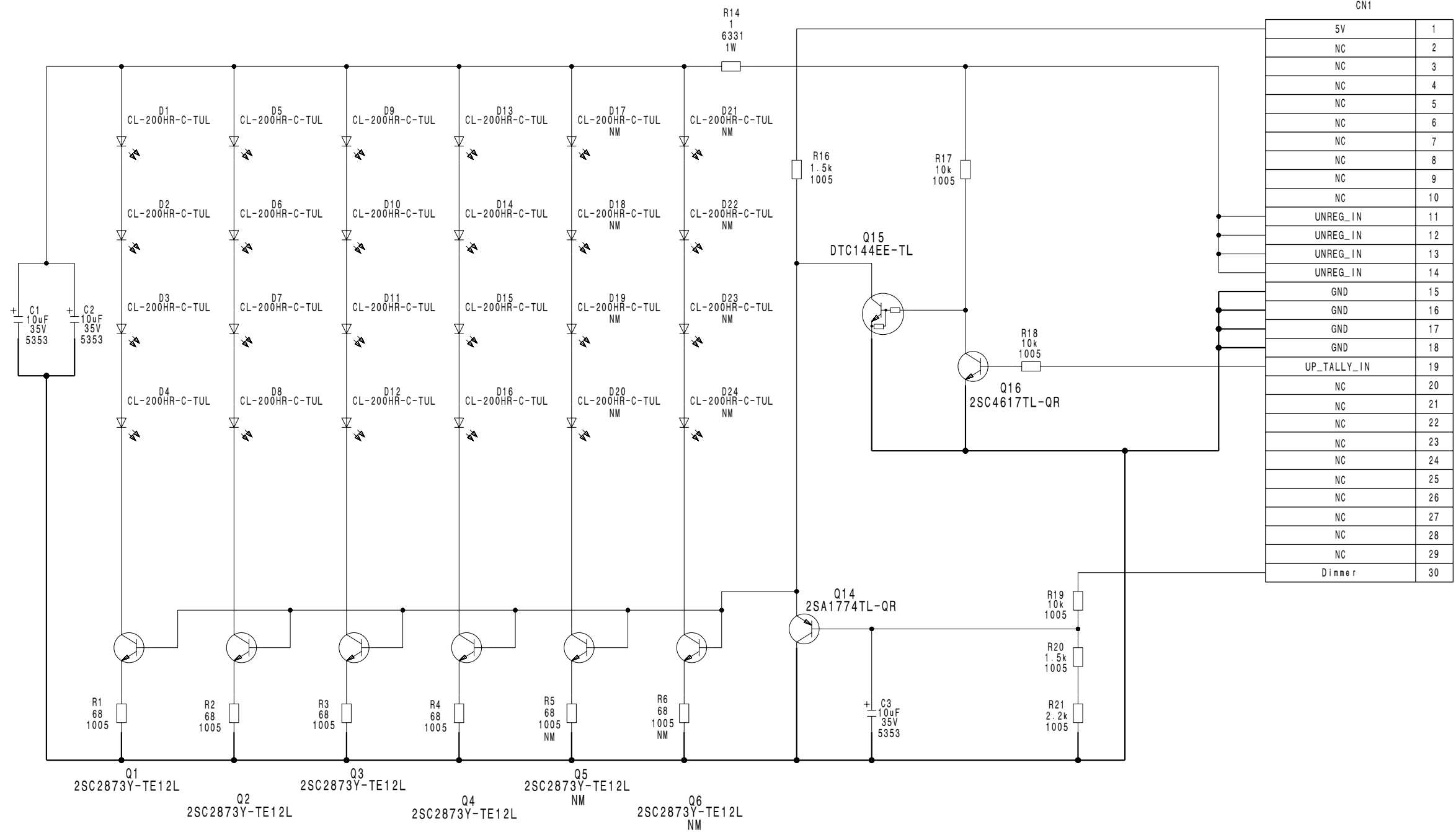
**LE-315**

BOARD NO. 1-868-137-11  
 HDVF-C950W\_LE-315\_11F\_1



**LE-316**

BOARD NO. 1-868-138-11  
 HDVF-C950W\_LE-316\_11F\_1



CN1	
5V	1
NC	2
NC	3
NC	4
NC	5
NC	6
NC	7
NC	8
NC	9
NC	10
UNREG_IN	11
UNREG_IN	12
UNREG_IN	13
UNREG_IN	14
GND	15
GND	16
GND	17
GND	18
UP_TALLY_IN	19
NC	20
NC	21
NC	22
NC	23
NC	24
NC	25
NC	26
NC	27
NC	28
NC	29
Dimmer	30

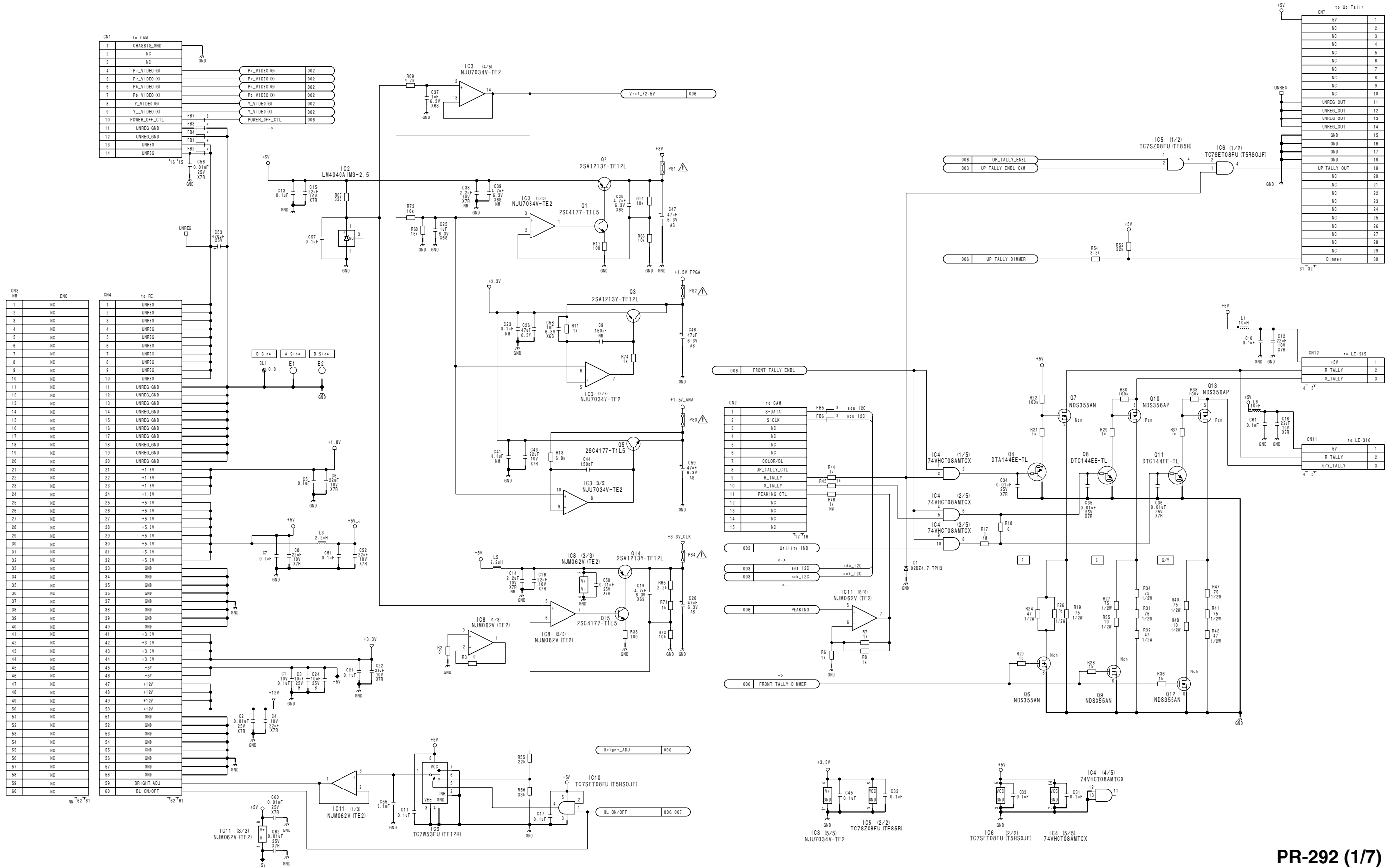
1

2

3

4

5



1

2

3

4

5

A

B

C

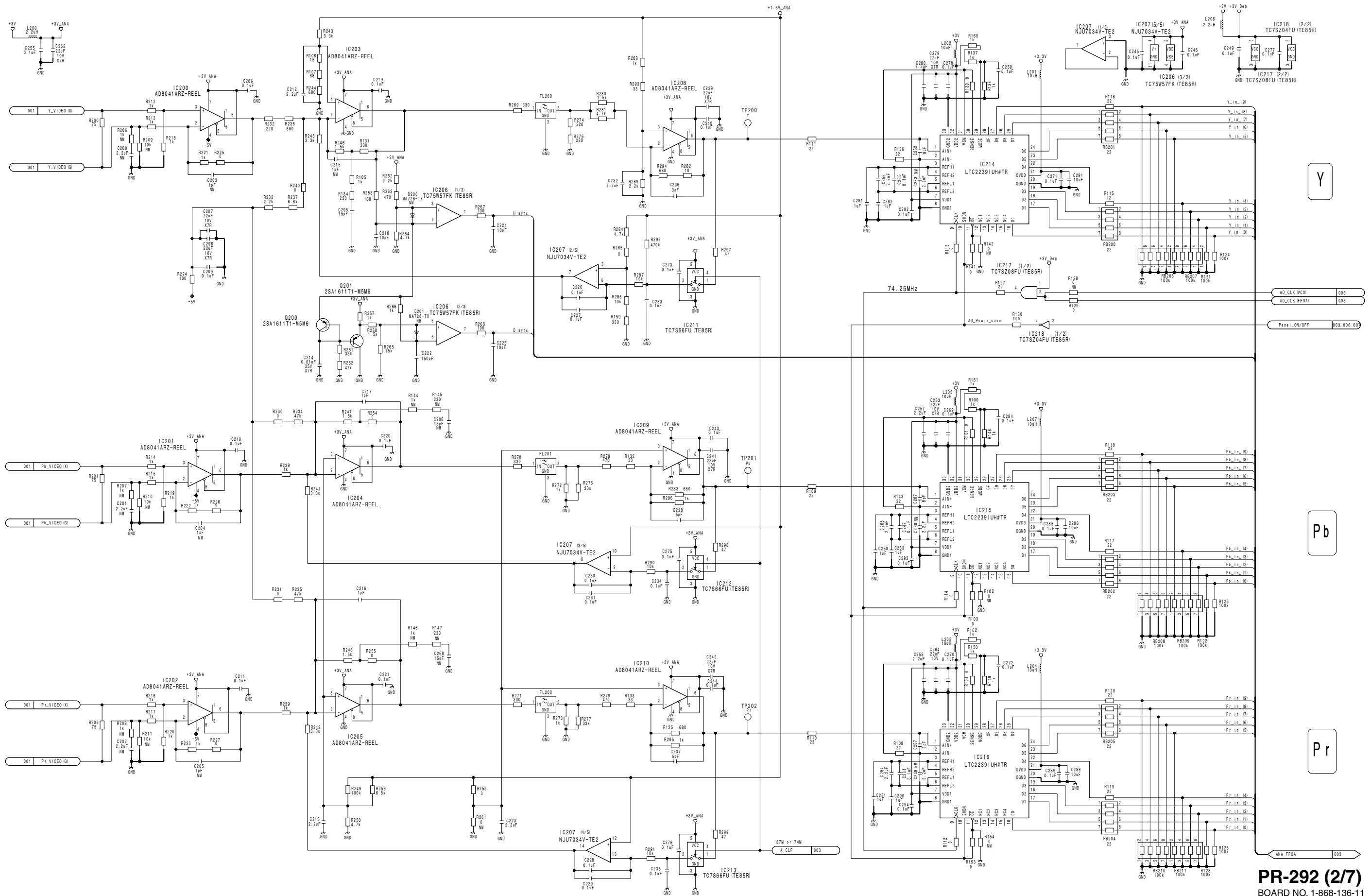
D

E

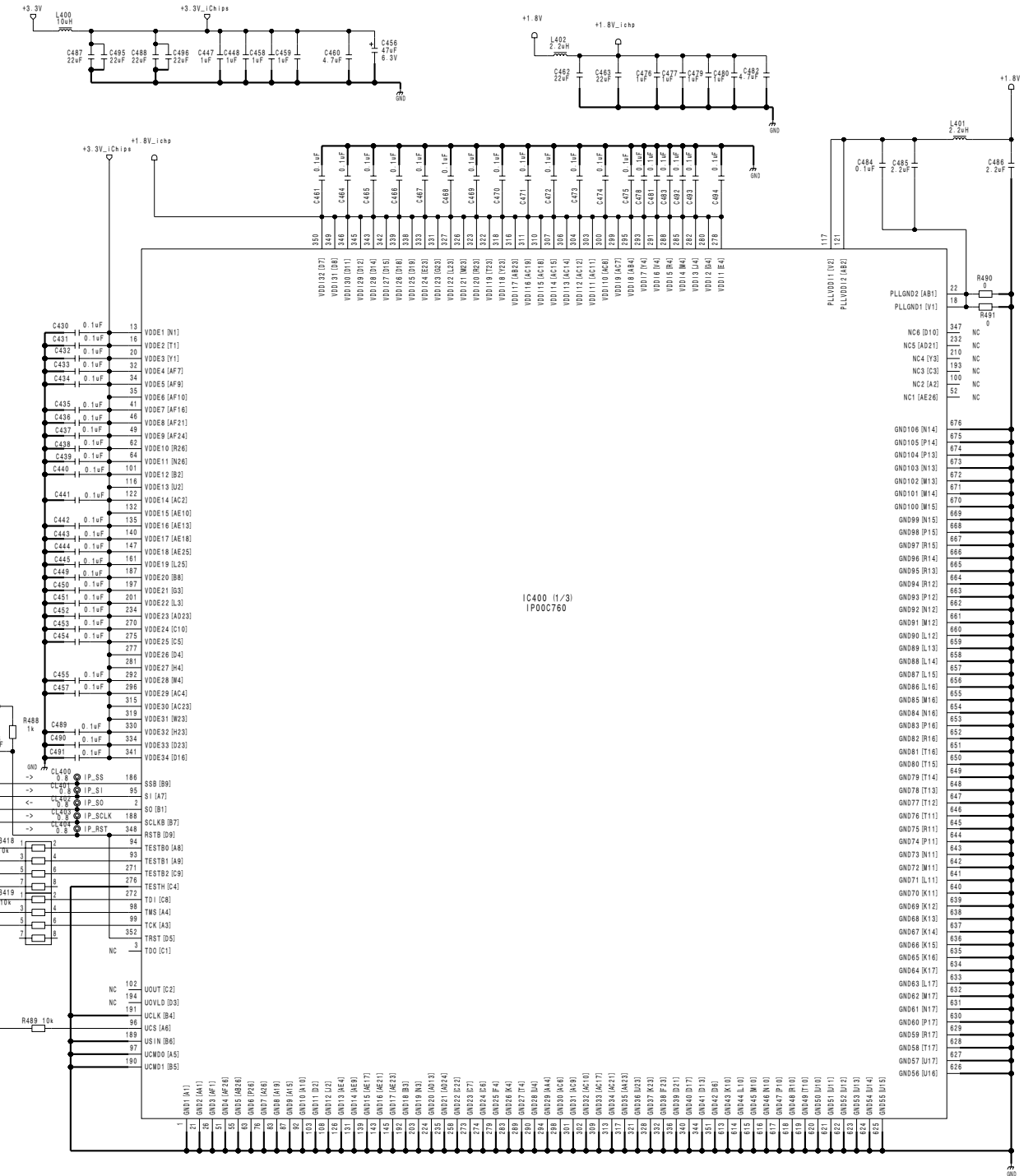
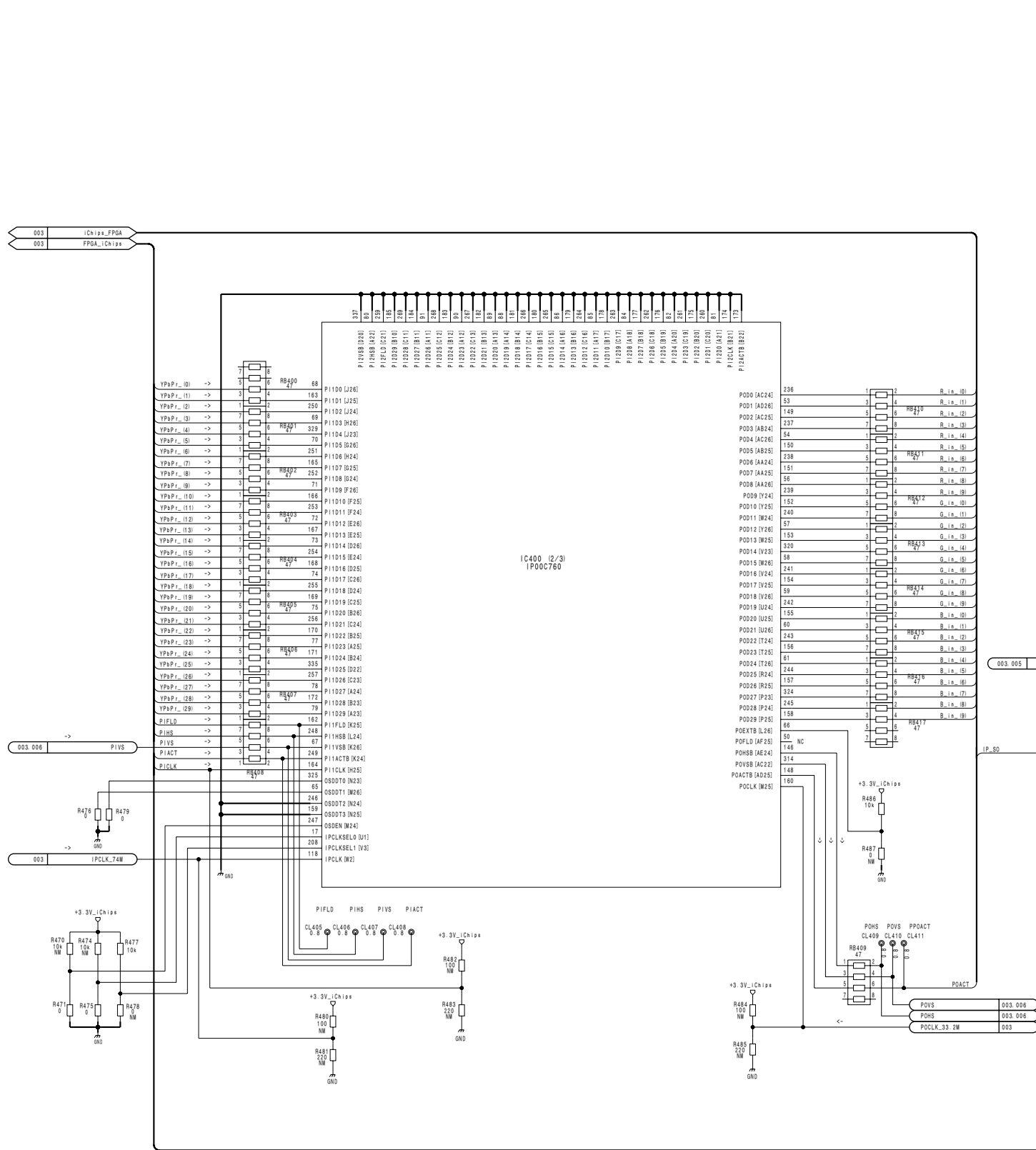
F

G

H







1

2

3

4

5

7-6

7-6

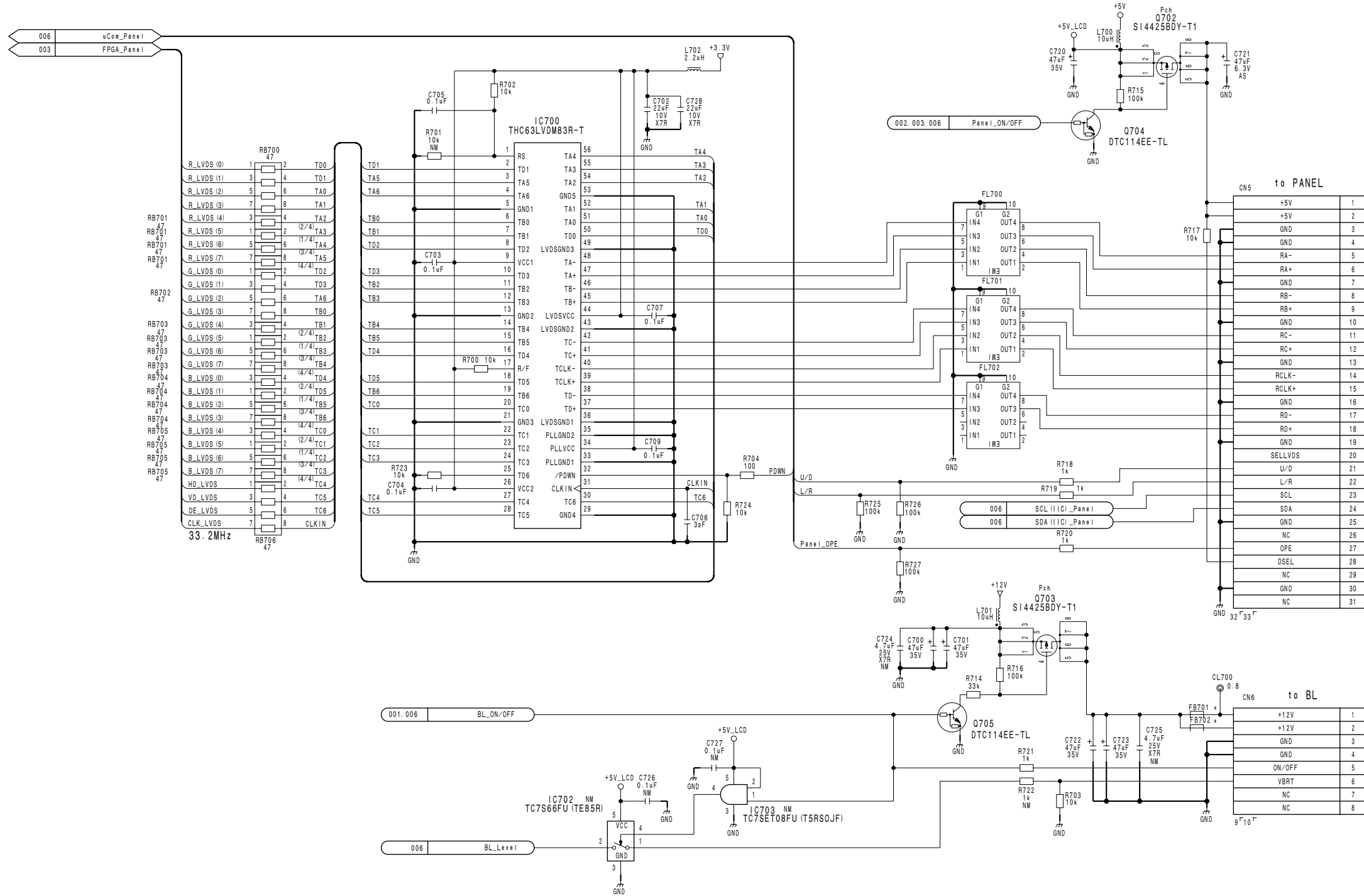
HDVF-C950W

A B C D E F G H

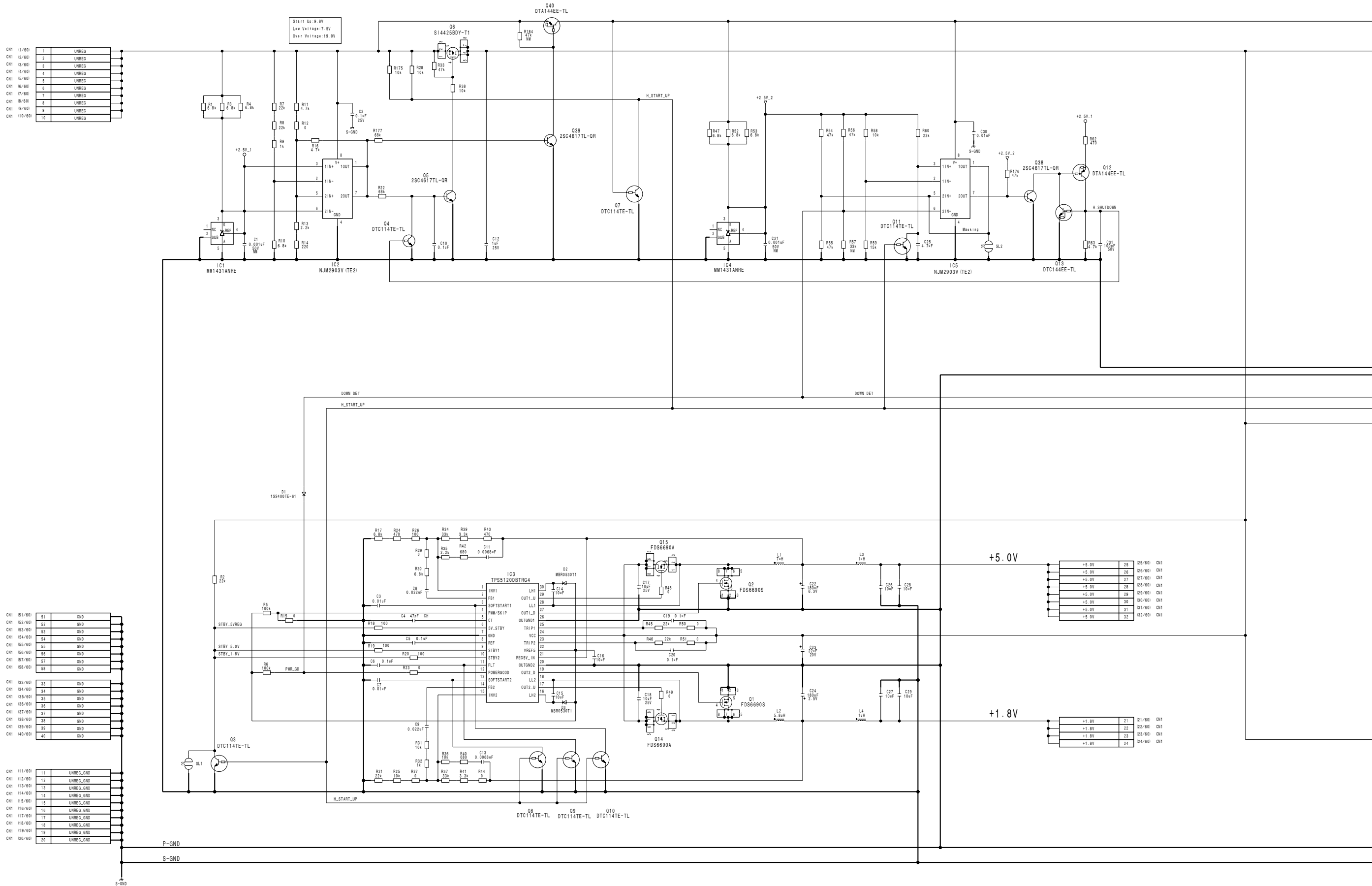








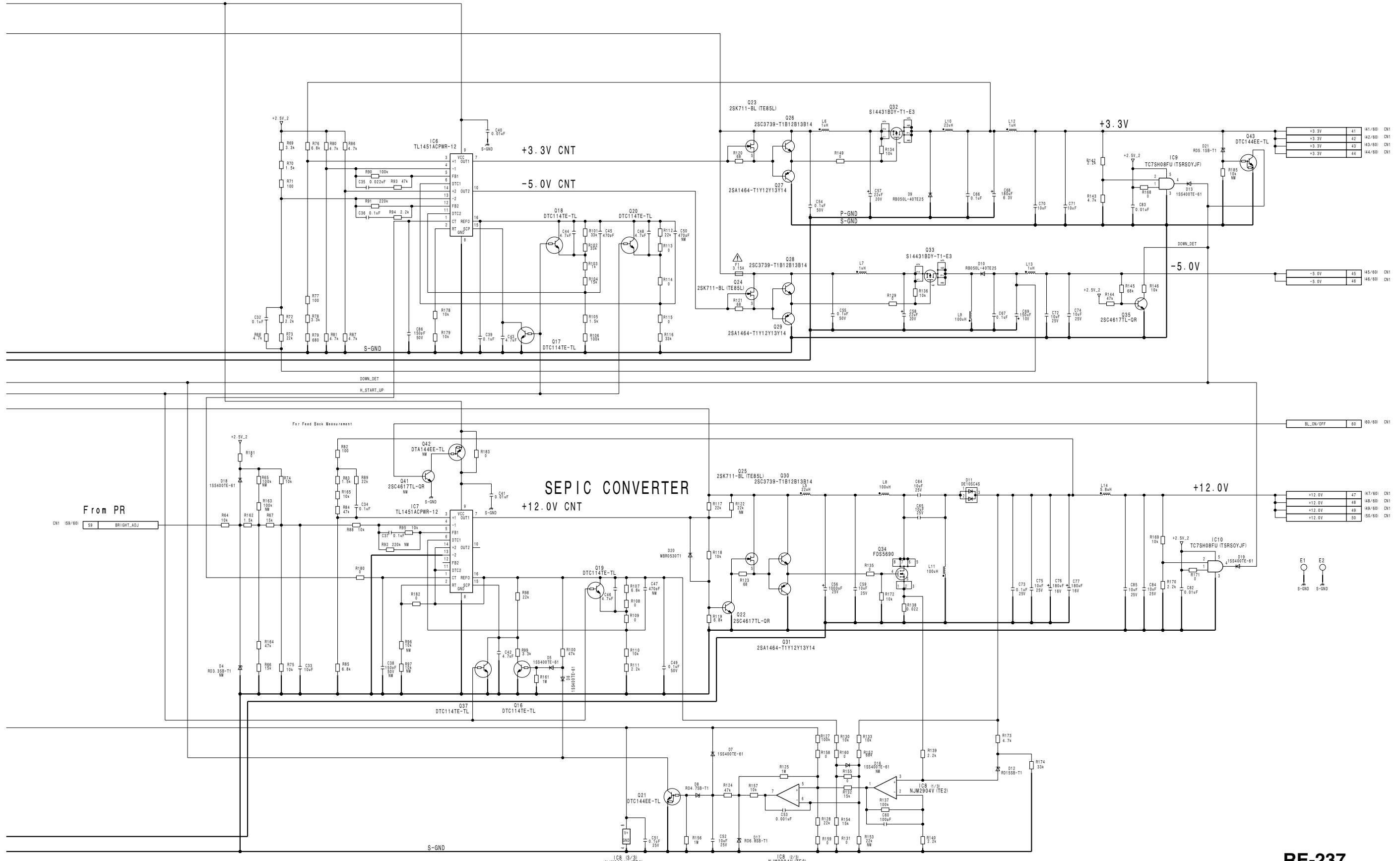
RE-237 SUFFIX: -11 RE-237 SUFFIX: -11

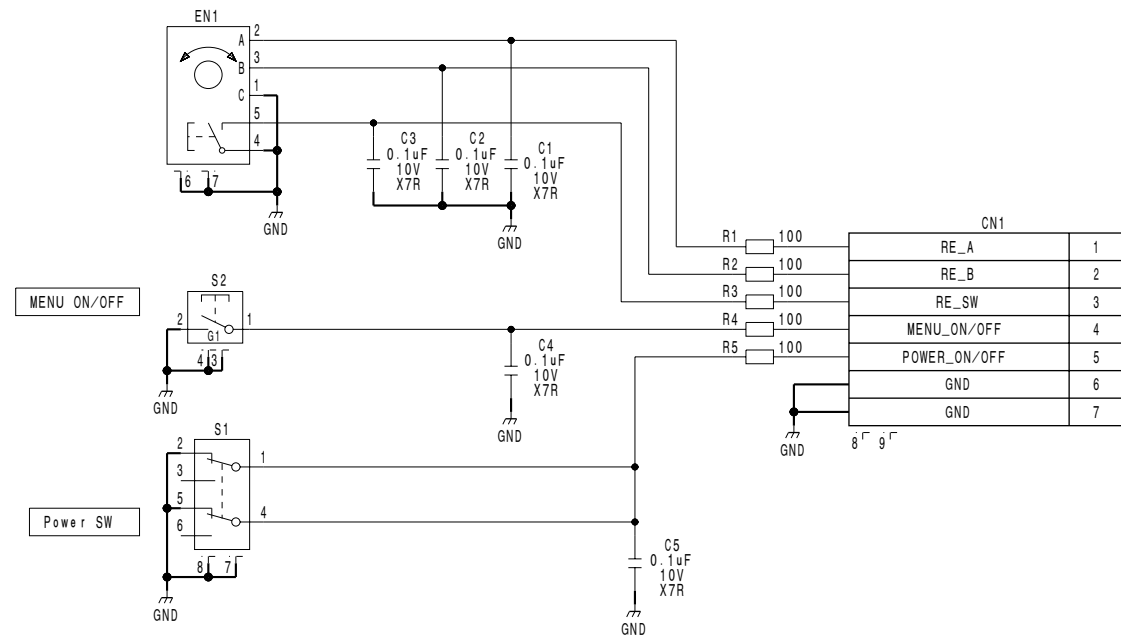


7-10

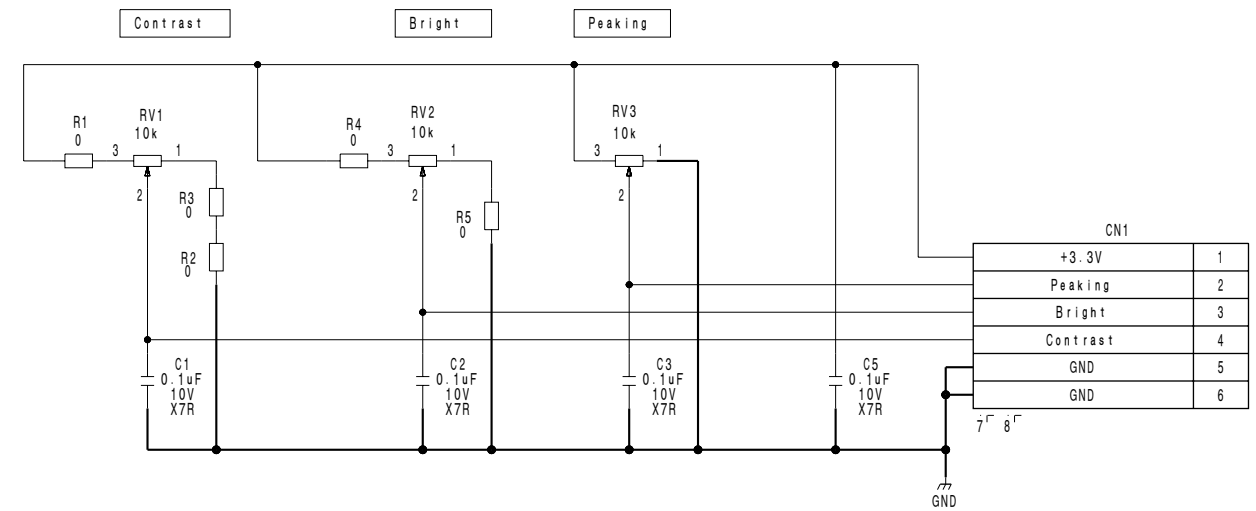
7-10

A B C D E F G H

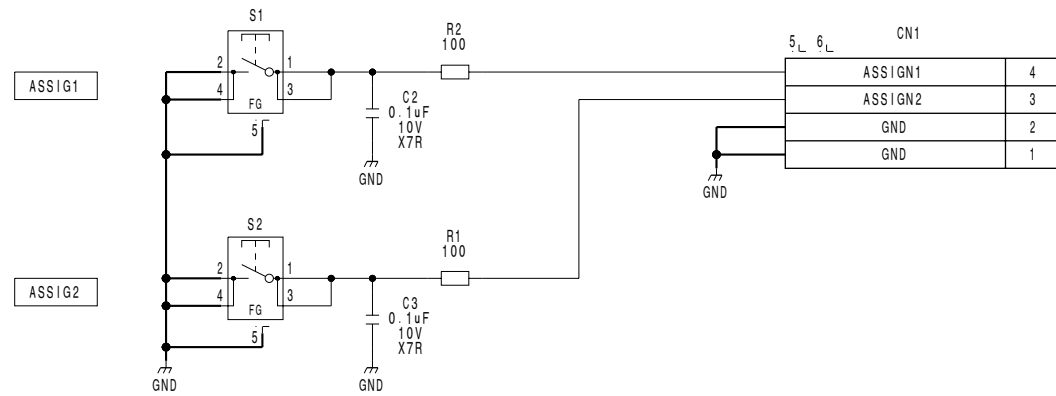




**SW-1298**  
 BOARD NO. 1-868-141-11  
 HDVF-C950W\_SW-1298\_11F\_1



**VR-315**  
 BOARD NO. 1-868-140-11  
 HDVF-C950W\_VR-315\_11F\_1



**SW-1299**  
 BOARD NO. 1-868-347-11  
 HDVF-C950W\_SW-1299\_11F\_1



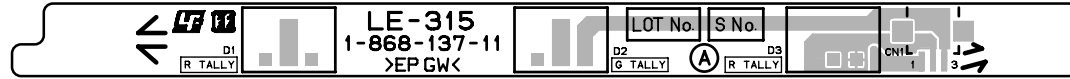




## Section 8 Board Layouts

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**LE-315 -A SIDE-**  
SUFFIX: -11



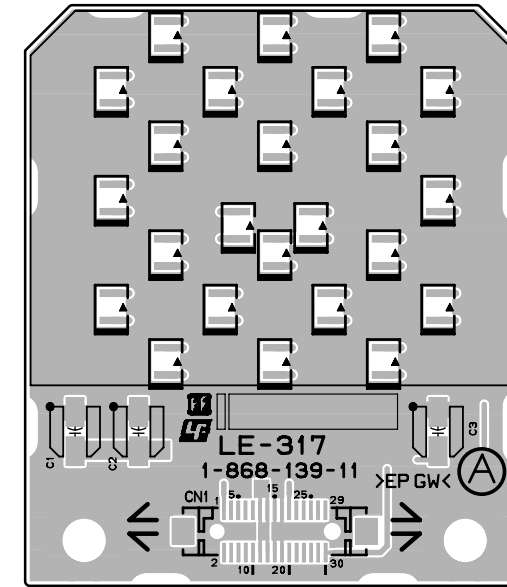
**LE-315 -B SIDE-**  
SUFFIX: -11



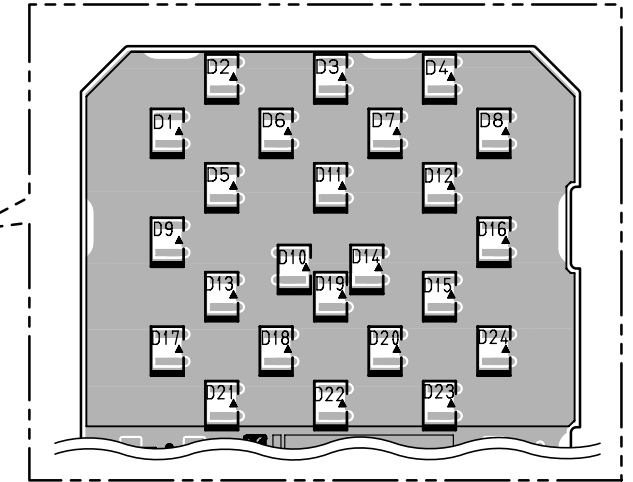
**LE-316 -A SIDE-**  
SUFFIX: -11



**LE-316 -B SIDE-**  
SUFFIX: -11



**LE-317 -A SIDE-**  
SUFFIX: -11



LE-317 (1-868-139-11)

\*: B SIDE

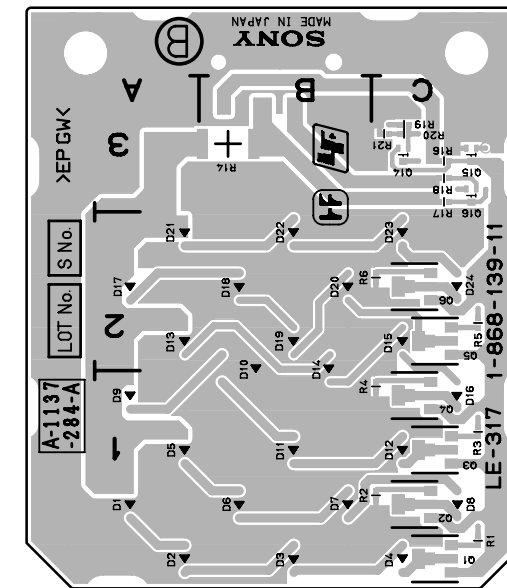
C1 A3  
C2 A3  
C3 C3

CN1 B3

D1 A1  
D2 A1  
D3 B1  
D4 C1  
D5 A1  
D6 B1  
D7 B1  
D8 C1  
D9 A1  
D10 B2  
D11 B1  
D12 C1  
D13 A2  
D14 B2  
D15 C2  
D16 C1  
D17 A2  
D18 B2  
D19 B2  
D20 B2  
D21 A2  
D22 B2  
D23 C2  
D24 C2

Q1 \*C1  
Q2 \*C1  
Q3 \*C1  
Q4 \*C1  
Q5 \*C2  
Q6 \*C2  
Q14 \*C3  
Q15 \*C3  
Q16 \*C3

R1 \*C1  
R2 \*C1  
R3 \*C1  
R4 \*C1  
R5 \*C2  
R6 \*C2  
R14 \*B3  
R16 \*C3  
R17 \*C3  
R18 \*C3  
R19 \*C3  
R20 \*C3  
R21 \*C3

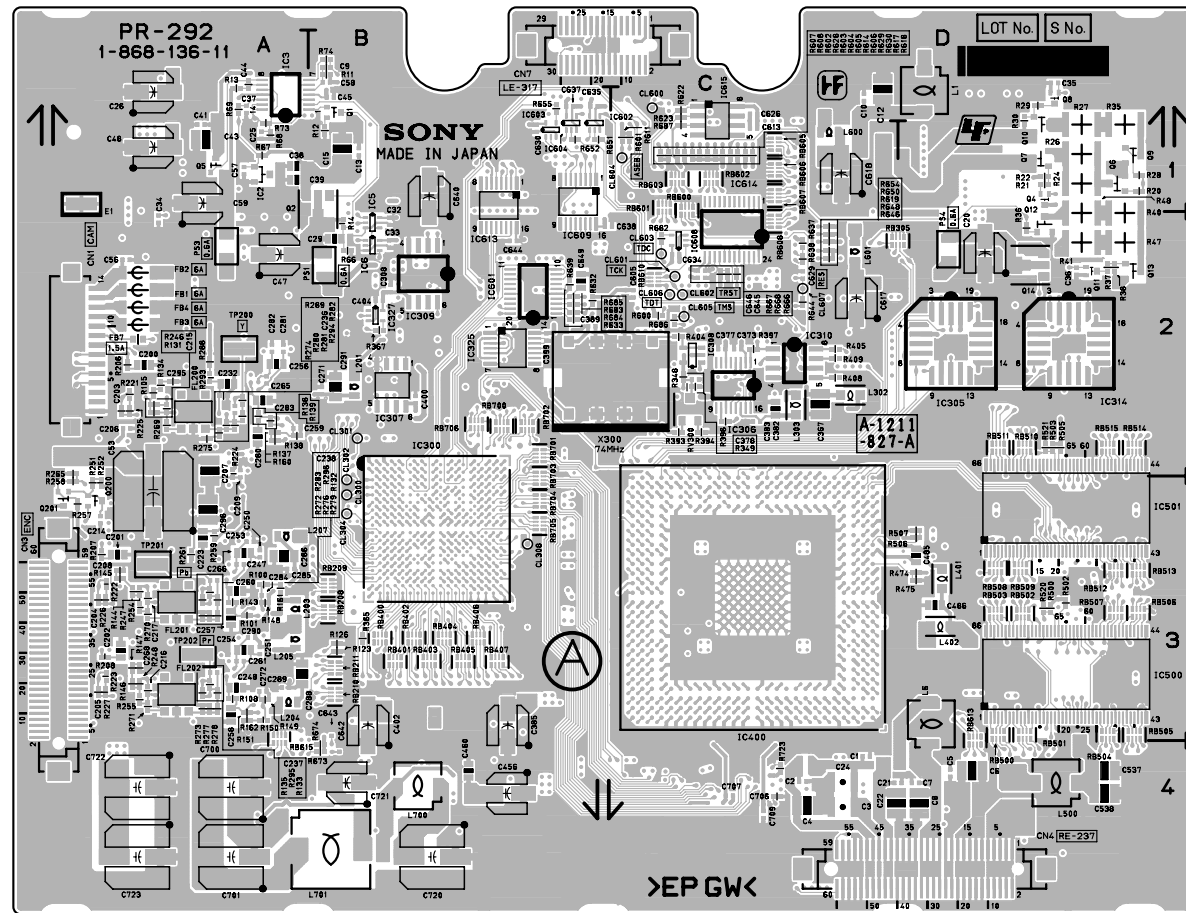


**LE-317 -B SIDE-**  
SUFFIX: -11

PR-292 (1-868-136-11)

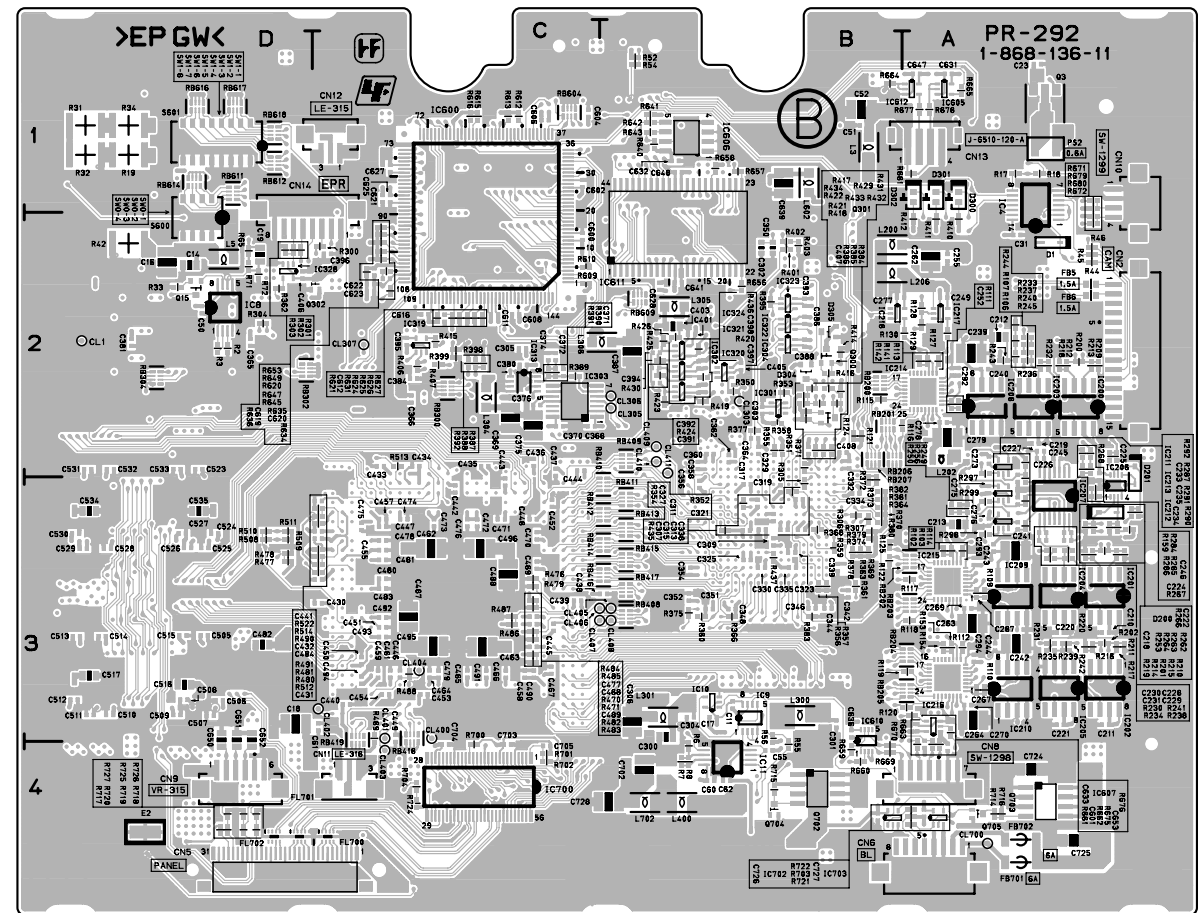
\*:B SIDE

C1	C4	C236	A2	C470	*C3	C642	B4	FB1	A2	L1	D1	R41	D2	R217	*A3	R350	*B2	R479	*C3	R661	*A4	RB507	D3
C2	C4	C352	*B3	C471	*C3	C643	B3	FB2	A2	L3	*B1	R42	*D2	R218	*A2	R351	*B2	R480	*C3	R662	*A4	RB508	D3
C3	C4	C354	*B3	C472	*C3	C644	B2	FB3	A2	L5	*D2	R44	*A2	R219	*A3	R352	*B3	R481	*C3	R663	*A3	RB509	D3
C4	C4	C356	*B3	C473	*C3	C645	C2	FB4	A2	L6	D3	R45	*A2	R220	*A3	R353	*B2	R482	*C3	R664	*B1	RB510	D2
C5	D4	C358	*B2	C474	*C3	C646	C2	FB5	*A2	L200	*B2	R46	*A2	R221	A2	R354	*B3	R483	*C3	R665	*A1	RB511	D2
C6	D4	C360	*B2	C475	*C3	C647	*A1	FB6	*A2	L201	B2	R47	D2	R222	A3	R355	*B2	R484	*C3	R666	C2	RB512	D3
C7	D4	C362	*B2	C476	*C3	C648	*B1	FB7	A2	L202	*A2	R48	D2	R223	A3	R356	*B3	R485	*C3	R667	C2	RB513	D3
C8	D4	C364	*B2	C477	*C3	C649	B2	FB701	*A4	L203	A3	R52	*B1	R224	A2	R357	*B3	R486	*C3	R668	C2	RB514	D2
C9	B1	C365	*D2	C478	*C3	C650	*D4	FB702	*A4	L204	A3	R54	*B1	R225	A2	R358	*B2	R487	*C3	R669	*B4	RB515	D2
C10	C1	C366	*C2	C479	*C3	C651	*D4			L205	A3	R55	*B4	R226	A3	R359	*B3	R488	*C3	R670	*B4	RB600	C2
C11	*B3	C367	C2	C480	*C3	C652	*D4	FL200	A2	L206	*B2	R56	*B3	R227	A3	R360	*B3	R489	*C3	R671	*A1	RB601	C1
C12	C1	C368	*C2	C481	*C3	C653	*A4	FL201	A3	L207	A3	R65	*D2	R230	*A3	R361	*B3	R490	*C3	R672	*A2	RB602	C1
C13	B1	C369	*C2	C482	*D3	C700	A4	FL202	A3	L300	*B3	R66	B2	R231	*A3	R362	*D2	R491	*C3	R673	B4	RB603	C1
C14	*D2	C370	*C2	C483	*C3	C701	A4	FL700	*C4	L301	*B3	R67	A1	R232	*A2	R363	*B3	R500	D3	R674	B4	RB604	*C1
C15	B1	C371	*C2	C484	*C3	C702	*B4	FL701	*D4	L302	C2	R68	A1	R233	*A2	R364	*B3	R502	D3	R675	*A4	RB605	C1
C16	*D2	C372	*C2	C485	D3	C703	*C4	FL702	*D4	L303	C2	R69	A1	R234	*A3	R365	B3	R503	D2	R676	*A3	RB606	C1
C17	*B3	C373	C2	C486	D3	C704	*C4			L304	*C2	R71	*D2	R235	*A3	R366	*B3	R505	D2	R677	*A1	RB607	C1
C18	*D3	C374	*C2	C487	*C3	C705	*C4	IC2	A1	L305	*B2	R72	*D2	R236	*A2	R367	B2	R506	D3	R678	*A1	RB608	C2
C19	*D2	C375	*C2	C488	*C3	C706	C4	IC3	B1	L306	*B2	R73	A1	R237	*A2	R368	*B3	R507	D3	R679	*A1	RB609	*B2
C20	D2	C376	*C2	C489	*C3	C707	C4	IC4	*A2	L400	*B4	R74	B1	R238	*A3	R369	*B3	R508	*D3	R680	*A2	RB610	C2
C21	C4	C377	C2	C490	*C3	C709	C4	IC5	B2	L401	D3	R100	A3	R239	*A3	R370	*B3	R509	*D3	R681	*A1	RB611	*D1
C22	C4	C378	C2	C491	*C3	C720	B4	IC6	B2	L402	D3	R101	A3	R240	*A2	R371	*B2	R510	*D3	R682	C2	RB612	*D1
C23	*A1	C380	*C2	C492	*C3	C721	B4	IC8	*D2	L500	D4	R102	*A3	R241	*A3	R372	*B3	R511	*D3	R683	B2	RB613	D4
C24	C4	C381	*D2	C493	*C3	C722	A4	IC9	*B3	L600	C1	R103	*A3	R242	*A3	R373	*B3	R512	*C3	R684	B2	RB614	*D1
C25	A1	C382	C2	C494	*C3	C723	A4	IC10	*B3	L601	C2	R105	A2	R243	*A2	R374	*B3	R513	*C2	R685	B2	RB615	A4
C26	A1	C383	C2	C495	*C3	C724	*A4	IC11	*B4	L602	*B1	R106	*A2	R244	*A2	R375	*B3	R514	*C3	R686	C2	RB616	*D1
C29	B2	C384	*C2	C496	*C3	C725	*A4	IC200	*A2	L700	B4	R107	*A2	R245	*A2	R377	*B2	R520	D3	R687	C1	RB617	*D1
C31	*A2	C385	B3	C505	*D3	C726	*B4	IC201	*A3	L701	B4	R108	A3	R246	A2	R378	*B3	R521	D2	R700	*C4	RB618	*D1
C32	B2	C386	*B2	C506	*D3	C727	*A4	IC202	*A3	L702	*B4	R109	*A3	R247	A3	R379	*B3	R522	*C3	R701	*C4	RB700	B2
C33	B2	C387	*B2	C507	*D3	C728	*B4	IC203	*A2			R110	*A3	R248	A3	R380	*B3	R600	C2	R702	*C4	RB701	B2
C34	A2	C388	*B2	C508	*D3			IC204	*A3	PS1	B2	R111	*A2	R249	*A3	R381	*B3	R601	C1	R703	*A4	RB702	B2
C35	D1	C389	B2	C509	*D3	CL1	*D2	IC205	*A3	PS2	*A1	R112	*A3	R250	*A3	R382	*B3	R602	C1	R704	*C4	RB703	B3
C36	D2	C391	*B2	C510	*D3	CL300	B3	IC206	*A3	PS3	A2	R113	*A2	R251	A3	R383	*B3	R603	C1	R714	*A4	RB704	B3
C37	A1	C392	*B2	C511	*D3	CL301	B2	IC207	*A2	PS4	D2	R114	*A3	R252	A3	R384	*B2	R604	C1	R715	*B4	RB705	B3
C38	A1	C393	*B2	C512	*D3	CL302	B3	IC208	*A2			R115	*B2	R253	*A3	R385	*B2	R605	C1	R716	*A4	RB706	B2
C39	A1	C394	*B2	C513	*D3	CL303	*B2	IC209	*A3	Q1	B1	R116	*A2	R254	A3	R386	*B2	R606	C1	R717	*D4		
C41	A1	C395	*C2	C514	*D3	CL304	B3	IC210	*A3	Q2	B1	R117	*A3	R255	A3	R387	*C2	R607	C1	R718	*D4	RV300	C2
C43	A1	C396	*C2	C515	*D3	CL305	*B2	IC211	*A2	Q3	*A1	R118	*A3	R256	*A3	R388	*C2	R608	C1	R719	*D4		
C44	A1	C397	*B2	C516	*D3	CL306	*B2	IC212	*A3	Q4	D1	R119	*A3	R257	A3	R389	*C2	R609	*C2	R720	*D4	S600	*D2
C45	B1	C398	*B2	C517	*D3	CL307	*C2	IC213	*A3	Q5	A1	R120	*A3	R258	A3	R390	*C2	R610	*C2	R721	*A4	S601	*D1
C47	A2	C399	B2	C523	*D2	CL308	B3	IC214	*A2	Q6	D1	R121	*B2	R259	A3	R391	*C2	R611	C1	R722	*A4		
C48	A1	C400	B2	C524	*D3	CL400	*C3	IC215	*A3	Q7	D1	R122	*B3	R261	A3	R392	*C2	R612	*C1	R723	C4	TP200	A2
C50	*D2	C401	*B2	C525	*D3	CL401	*C3	IC216	*A3	Q8	D1	R123	B3	R262	*A3	R393	C2	R613	*C1	R724	*C4	TP201	A3
C51	*B1	C402	B3	C526	*D3	CL402	*C3	IC217	*A2	Q9	D1	R124	*B2	R263	*A3	R394	C2	R614	C1	R725	*D4	TP202	A3
C52	*B1	C403	*B2	C527	*D3	CL403	*C4	IC218	*B2	Q10	D1	R125	*B3	R264	*A3	R395	*B2	R615	*C1	R726	*D4		
C53	A3	C404	B2	C528	*D3	CL404	*C3	IC300	B3	Q11	D2	R126	B3	R265	A2	R396	C2	R616	*C1	R727	*D4	X300	B2
C55	*B4	C405	*B2	C529	*D3	CL405	*B3	IC301	*B2	Q12	D2	R127	*A2	R266	*A3	R397	C2	R617	C1				
C56	A2	C406	*D2	C530	*D3	CL406	*B3	IC302	*B2	Q13	D2	R128	*A2	R267	*A3	R398	*C2	R618	C1	RB200	*B2		
C57	A1	C407	*B2	C531	*D2	CL407	*B3	IC303	*C2	Q14	D2	R129	*A2	R268	*A2	R399	*C2	R619	C2	RB201	*B2		
C58	B1	C408	*B2	C532	*D2	CL408	*B3	IC304	*B2	Q15	*D2	R130	*A2	R269	A2	R401	*B2	R620	*C2	RB202	*A3		
C59	A1	C430	*C3	C533	*D2	CL409	*B2	IC305	D2	Q200	A3	R131	A2	R270	A3	R402	*B2	R621	*C2	RB203	*A3		
C60	*B4	C431	*C3	C534	*D3	CL410	*B2	IC306	C2	Q201	A3	R132	A3	R271	A3	R403	*B2	R622	C1	RB204	*A3		
C61	*C3	C432	*C3	C535	*D3	CL411	*B2	IC307	B2	Q300	*B2	R133	A3	R272	A3	R404	C2	R623	C1	RB205	*A3		
C62	*B4	C433	*C2	C537	D4	CL600	C1	IC308	C2	Q301	*B2	R134	A2	R273	A3	R405	C2	R624	*C2	RB206	*B2		
C200	A2	C434	*C2	C538	D4	CL601	C2	IC309	B2	Q302	*C2	R135	A3	R274	A2	R406	*C2	R625	*C2	RB207	*B2		
C201	A3	C435	*C2	C600	*C2	CL602	C2	IC310	C2	Q702	*B4	R136	A2	R275	A2	R407	*C2	R626	*C2	RB208	B3		
C202	A3	C436	*C2	C601	*A4	CL603	C2	IC313	*C2	Q703	*A4	R137	A2	R276	A3	R408	C2	R627	*C2	RB209	B3		
C203	A2	C437	*C2	C602	*C1	CL604	C1	IC314	D2	Q704	*B4	R138	A2	R277	A3	R409	C2	R628	C1	RB210	B3		
C204	A3	C438	*B3	C604	*C1	CL605	C2	IC319	*C2	Q705	*A4	R139	A2	R278	A3	R410	*A2	R629	C1	RB211	B3		
C205	A3	C439	*C3	C605	C2	CL606	C2	IC320	*B2			R141	*A2	R279	A3	R411	*A2	R630	C1	RB300	*C2		
C206	A2	C440	*C3	C606	*C1	CL607	C2	IC321	*B2	R2	*D2	R142	*A2	R280	A2	R412	*A2	R631	*C2	RB302	*D2		
C207	A2	C441	*C3	C608	*C2	CL700	*A4	IC322	*B2	R3	*D2	R143	A3	R281	A2	R414	*B2	R632	B2	RB304	*D2		
C208	A3	C442	*C3	C611	*C2			IC323	*B2	R6	*B4	R144	A3	R282	A2	R415	*C2	R633	B2	RB305	C2		
C209	A2	C443	*C3	C612	*C2	CN1	A2	IC324	*B2	R7	*B4	R145	A3	R283	A3	R416	*B2	R634	*C2	RB400	B3		
C210	*A3	C444	*C2	C613	C1	CN2	*A2	IC325	B2	R8	*B4	R146	A3	R284	*A2	R417	*B2	R635	*C2	RB401	B3		
C211	*A3	C445	*C3	C616	*C2	CN3	A3	IC327	B2	R11	B1	R147	A3	R285	*A2	R418	*B2	R636	*C2	RB402	B3		
C212	*A2	C446	*C3	C617	C2	CN4	D4	IC328	*D2	R12	B1	R148	A3	R286	*A2	R419	*B2	R637	C2	RB403	B3		
C213	*A3	C447	*C3	C618	C1	CN5	*D4	IC400	C3	R13	A1	R149	A3	R287	*A3	R420	*B2	R638	C2	RB404	B3		
C214	A3	C448	*C3	C619	*C2	CN6	*A4	IC500	D3	R14	B2	R150	A3	R288	A2	R421	*B2	R639	B2	RB405	B3		
C2																							



Components location list ; previous page

**PR-292 -A SIDE-**  
**SUFFIX: -11**

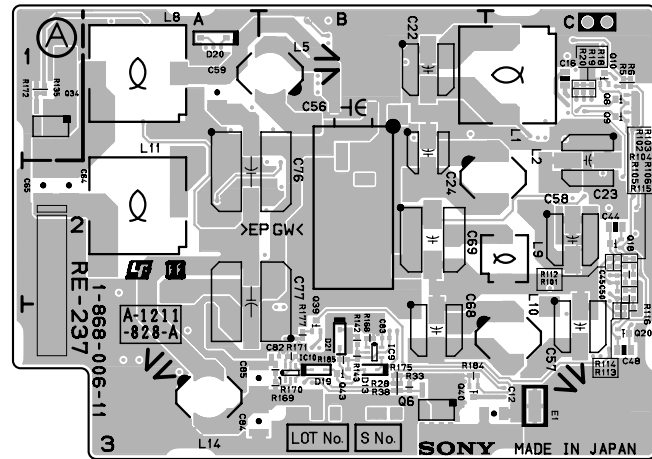


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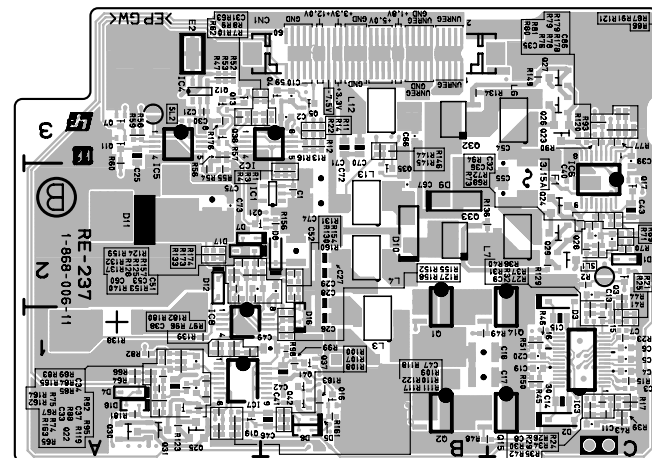
RE-237 (1-868-006-11)

\*:B SIDE

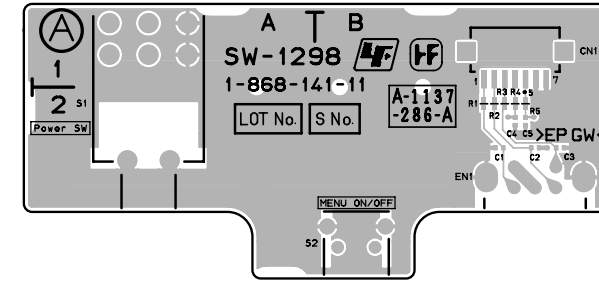
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C3	*C1	D11	*A2	R7	*B3	R98	*B1
C4	*C1	D12	*A2	R8	*B3	R99	*B1
C5	*C1	D13	B3	R9	*A3	R100	*B1
C6	*C1	D16	*B1	R10	*A3	R101	C2
C7	*C1	D17	*A2	R11	*B3	R102	C2
C8	*C1	D18	*A1	R12	*B3	R103	C2
C9	*C1	D19	B3	R13	*B3	R104	C2
C10	*B3	D20	A1	R14	*B3	R105	C2
C11	*C1	D21	B3	R15	*C1	R106	C2
C12	C3			R16	*B3	R107	*B1
C13	*C2	E1	C3	R17	*C1	R108	*B1
C14	*C1	E2	*A3	R18	C1	R109	*A1
C15	*C1			R19	C1	R110	*A1
C16	C1	F1	*C2	R20	C1	R111	*A1
C17	*B1			R21	*C1	R112	C2
C18	*B1	IC1	*B2	R22	*B3	R113	C3
C19	*C1	IC2	*A3	R23	*C1	R114	C3
C20	*C1	IC3	*C1	R24	*C1	R115	C2
C21	*A3	IC4	*A3	R25	*C1	R116	C3
C22	B1	IC5	*A3	R26	*C1	R117	*A1
C23	C2	IC6	*C3	R27	*C1	R118	*A1
C24	B1	IC7	*A1	R28	B3	R119	*A1
C25	*A3	IC8	*A1	R29	*C1	R120	*C3
C26	*B1	IC9	B3	R30	*C1	R121	*C2
C27	*B2	IC10	B3	R31	*C1	R122	*A1
C28	*B2			R32	*C1	R123	*A1
C29	*B2	L1	C1	R33	B3	R124	*A2
C30	*A3	L2	C2	R34	*C1	R125	*A2
C31	*B3	L3	*B1	R35	*C1	R127	*B1
C32	*C2	L4	*B2	R36	*C2	R128	*A2
C33	*A1	L5	B1	R37	*C1	R129	*C2
C34	*A1	L6	*C3	R38	B3	R130	*B2
C35	*C3	L7	*C2	R39	*C1	R131	*B2
C36	*C2	L8	A1	R40	*C2	R132	*A2
C37	*A1	L9	C2	R41	*C2	R133	*A2
C38	*A1	L10	C3	R42	*C1	R134	*B3
C39	*C3	L11	A2	R43	*C1	R135	A1
C40	*C2	L12	*B3	R44	*C2	R136	*B2
C41	*B1	L13	*B2	R45	*C1	R137	*A2
C42	*B1	L14	A3	R46	*C1	R138	*A1
C43	*C2			R47	*A3	R139	*A1
C44	C2	Q1	*B2	R48	*B1	R140	*A2
C45	C2	Q2	*B1	R49	*B1	R142	B3
C46	*B1	Q3	*C2	R50	*C1	R143	B3
C47	*A1	Q4	*B3	R51	*C1	R144	*B3
C48	C3	Q5	*B3	R52	*A3	R145	*B3
C49	*B1	Q6	B3	R53	*A3	R146	*B3
C50	C2	Q7	*A3	R54	*A2	R149	*C3
C51	*B2	Q8	C1	R55	*A2	R152	*B1
C52	*B2	Q9	C1	R56	*A3	R153	*A2
C53	*A2	Q10	C1	R57	*A3	R154	*B2
C54	*C3	Q11	*A3	R58	*A3	R155	*B1
C55	*C2	Q12	*A3	R59	*A3	R156	*B2
C56	B1	Q13	*A3	R60	*A3	R157	*B2
C57	C3	Q14	*C2	R62	*A3	R158	*B1
C58	C2	Q15	*C1	R63	*A3	R159	*A2
C59	A1	Q16	*B1	R64	*A1	R160	*B2
C60	*A2	Q17	*C2	R65	*A1	R161	*B1
C64	A2	Q18	C2	R66	*A1	R162	*A1
C65	A2	Q19	*A1	R67	*A1	R163	*A1
C66	*B3	Q20	C3	R68	*C2	R164	*A1
C67	*B2	Q21	*A2	R69	*C2	R165	*A1
C68	B3	Q22	*A1	R70	*C2	R168	B3
C69	B2	Q23	*C3	R71	*C2	R169	B3
C70	*B3	Q24	*C2	R72	*C2	R170	B3
C71	*B3	Q25	*A1	R73	*C2	R171	B3
C72	*B2	Q26	*C3	R74	*A1	R172	A1
C73	*A2	Q27	*C3	R75	*A1	R173	*A2
C74	*B2	Q28	*C2	R76	*C3	R174	*A2
C75	*A2	Q29	*C2	R77	*C3	R175	B3
C76	A2	Q30	*A1	R78	*C3	R176	*A3
C77	A2	Q31	*A1	R79	*C3	R177	B3
C82	B3	Q32	*B3	R80	*C3	R178	*C3
C83	B3	Q33	*B2	R81	*C3	R179	*C3
C84	A3	Q34	A1	R82	*A1	R180	*A1
C85	A3	Q35	*B2	R83	*A1	R181	*A1
C86	*C3	Q37	*B1	R84	*A1	R182	*A1
		Q38	*A3	R85	*A1	R183	*B1
CN1	*B3	Q39	B3	R86	*C2	R184	B3
		Q40	B3	R87	*C2	R185	B3
D1	*C2	Q41	*B1	R88	*A1		
D2	*C1	Q42	*B1	R89	*A1	SL1	*C2
D3	*C2	Q43	B3	R90	*C3	SL2	*A3
D4	*A1			R91	*C2		
D5	*B1	R1	*B2	R92	*A1		
D6	*B1	R2	*C2	R93	*C3		
D7	*A2	R3	*B2	R94	*C2		
D8	*B2	R4	*B2	R95	*A1		



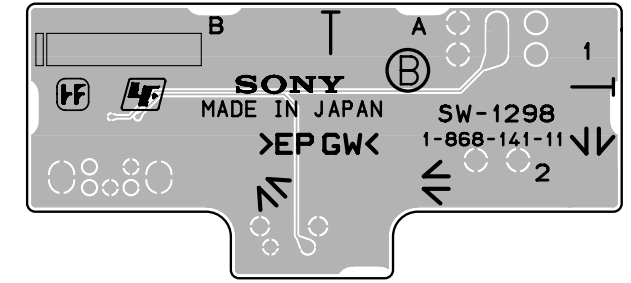
RE-237 - A SIDE-  
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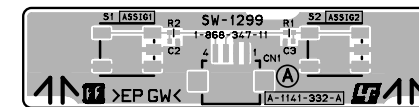
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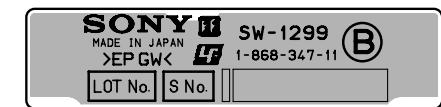
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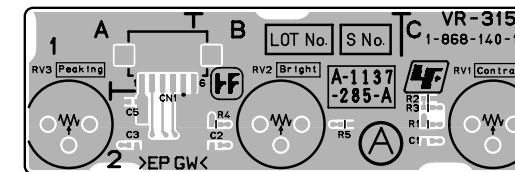
SW-1298 - B SIDE-  
SUFFIX: -11



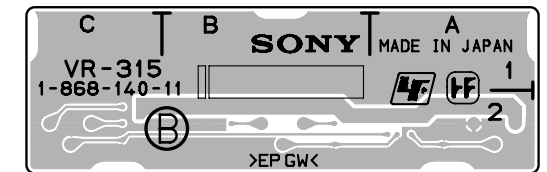
SW-1299 - A SIDE-  
SUFFIX: -11



SW-1299 - B SIDE-  
SUFFIX: -11



VR-315 - A SIDE-  
SUFFIX: -11



VR-315 - B SIDE-  
SUFFIX: -11



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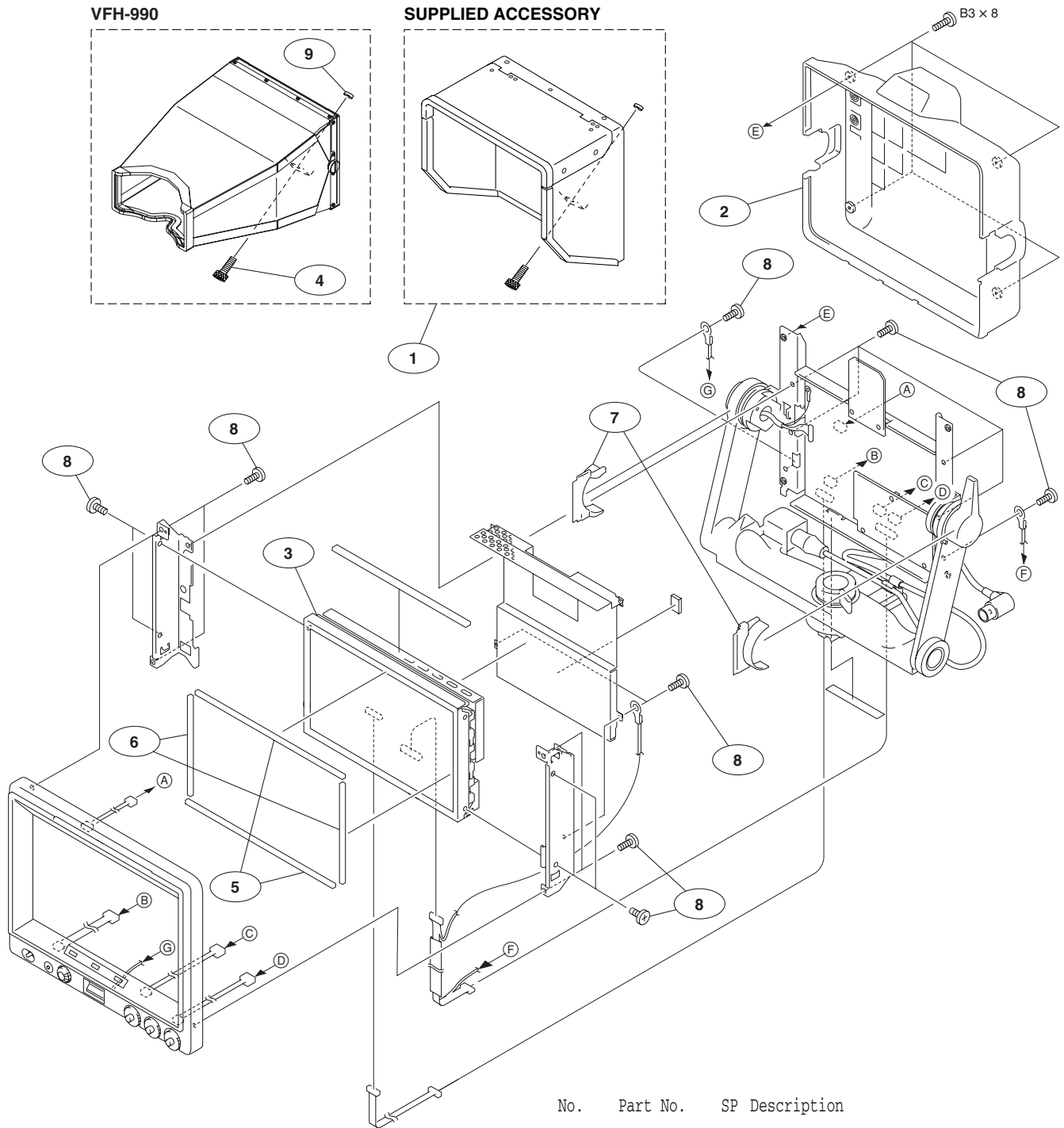
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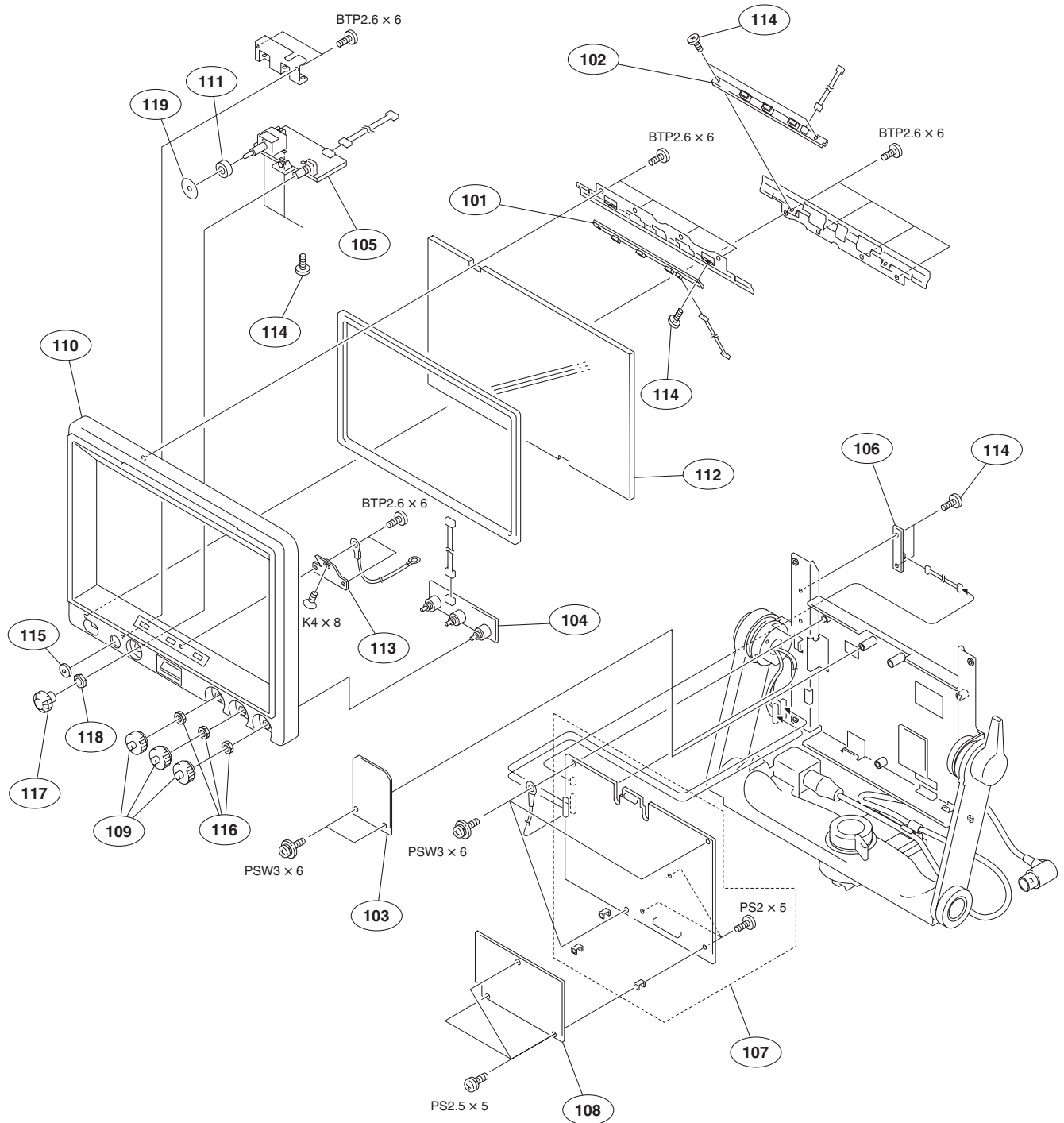




4-2. Exploded Views



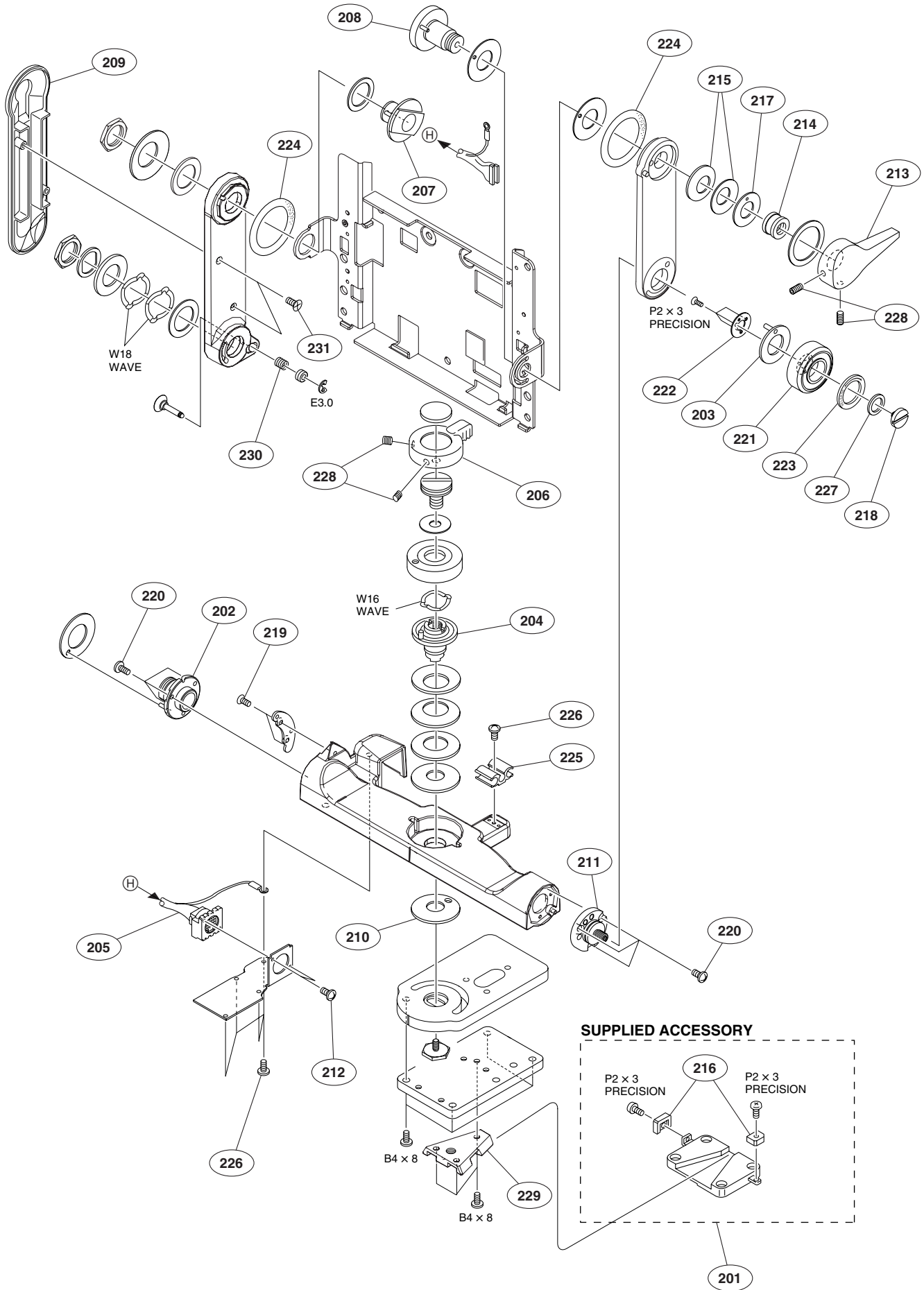
No.	Part No.	SP	Description
1	X-2149-576-1	s	HOOD ASSY, INDOOR
2	X-2149-578-1	s	COVER ASSY, REAR
3	Δ 1-802-297-11	s	MODULE, LCD
4	2-888-461-01	s	SCREW, BINDING
5	2-888-472-01	s	CUSHION (H), DUST PROTECTION
6	2-888-473-01	s	CUSHION (V), DUST PROTECTION
7	2-888-490-01	s	COVER, TILT SHAFT
8	3-364-941-01	s	SCREW (+B) (2.6X5), NYLOK
9	3-701-440-21	s	WASHER, 3.5
	7-682-548-09	s	SCREW, +B 3X8



No.	Part No.	SP Description
101	A-1137-282-A	s MOUNTED CIRCUIT BOARD, LE-315
102	A-1137-283-A	s MOUNTED CIRCUIT BOARD, LE-316
103	A-1137-284-A	s MOUNTED CIRCUIT BOARD, LE-317
104	A-1137-285-A	s MOUNTED CIRCUIT BOARD, VR-315
105	A-1137-286-A	s MOUNTED CIRCUIT BOARD, SW-1298
106	A-1141-332-A	s MOUNTED CIRCUIT BOARD, SW-1299
107	A-1211-827-A	s MOUNTED CIRCUIT BOARD, PR-292
108	A-1211-828-A	s MOUNTED CIRCUIT BOARD, RE-237
109	X-2149-575-1	s KNOB ASSY, VR
110	X-2149-577-1	s BEZEL ASSY
111	2-888-464-01	s CUSHION (PWR SW), PROTECTION
112	2-888-466-01	s PLATE, PROTECTION
113	2-888-618-01	s NUT, HOOD

No.	Part No.	SP Description
114	3-364-941-01	s SCREW (+B) (2.6X5), NYLOK
115	3-676-244-11	s COVER, SW
116	3-685-104-02	s NUT (M6), CONTROL
117	3-692-111-02	s KNOB, RE
118	3-703-078-02	s NUT
119	3-869-883-01	s RUBER, DROP PROTECTION
	7-628-253-15	s SCREW, +PS 2X5
	7-628-254-05	s SCREW, +PS 2.6X5
	7-682-261-09	s SCREW, +K 4X8
	7-682-947-01	s SCREW, +PSW 3X6
	7-685-533-14	s SCREW, +BTP 2.6X6 TYPE2 N-S

# Tilt Table Block



No.	Part No.	SP	Description
201	A-7612-405-D	s	SHOE ASSY, V EDGE
202	X-2149-579-1	s	SHAFT(L) ASSY, ARM LIFT
203	X-2149-580-1	s	PLATE ASSY, PIN
204	X-2149-581-1	s	SHAFT ASSY, PAN
205	1-964-354-11	s	HARNES, SUB (VF CONNECTION)
206	2-888-261-01	s	LEVER, PAN LOCK
207	2-888-264-01	s	SHAFT (L), TILT
208	2-888-265-01	s	SHAFT (R), TILT
209	2-888-266-01	s	COVER (L), ARM
210	2-888-269-01	s	SHEET, PAN
211	2-888-271-01	s	SHAFT(R), ARM LIFT
212	3-080-203-41	s	SREW(M2), LOCK ACE,P2
213	3-167-481-02	o	TILT LOCK LEVER
214	3-167-482-11	o	SCREW, LOCK, TILT
215	3-167-487-01	o	SPRING, PLATE
216	3-167-513-01	o	KNOB, RELEASE LEVER
217	3-169-580-02	s	WASHER, THRUST
218	3-173-371-02	s	SCREW, PUNCHING STOPPER
219	3-345-461-01	s	SCREW (+K) (2.6X6)
220	3-364-941-01	s	SCREW (+B) (2.6X5), NYLOK
221	3-625-379-01	s	KNOB, ARM LOCKING
222	3-625-381-02	s	RETAINER, PIN PLATE
223	3-625-384-01	o	LABEL, LOCKING KNOB
224	3-626-824-01	o	SPACER, DROP PROTECTION
225	3-679-659-05	s	CLAMP, CABLE
226	3-694-181-03	s	TYPE1, AROCK PRECISION +P2.6X5
227	3-701-447-21	s	WASHER, 10
228	3-701-512-01	s	SET SCREW, DOUBLE POINT, (M4X8)
229	3-716-391-02	o	WEDGE, MOUNTING
230	3-951-828-01	s	SPRING, COMPRESSION
231	4-218-253-32	s	SCREW (M2.6), +BTTP
	7-623-710-87	s	WASHER 16, WAVE TYPE
	7-623-710-97	s	WASHER 18, WAVE TYPE
	7-624-106-04	s	STOP RING 3.0, TYPE -E
	7-627-553-38	s	SCREW, PRECISION +P 2X3
	7-682-561-09	s	SCREW +B 4X8