

SONY®

HD ELECTRONIC VIEWFINDER

HDVF-EL70

HDVF-EL75

OUTDOOR HOOD
VFH-790

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

Purpose of this manual

This manual is the maintenance manual for HD Electronic Viewfinder HDVF-EL70/EL75.

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 alignment, schematic diagrams, board layouts and spare parts lists, assuming use of system and service engineers.

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)**

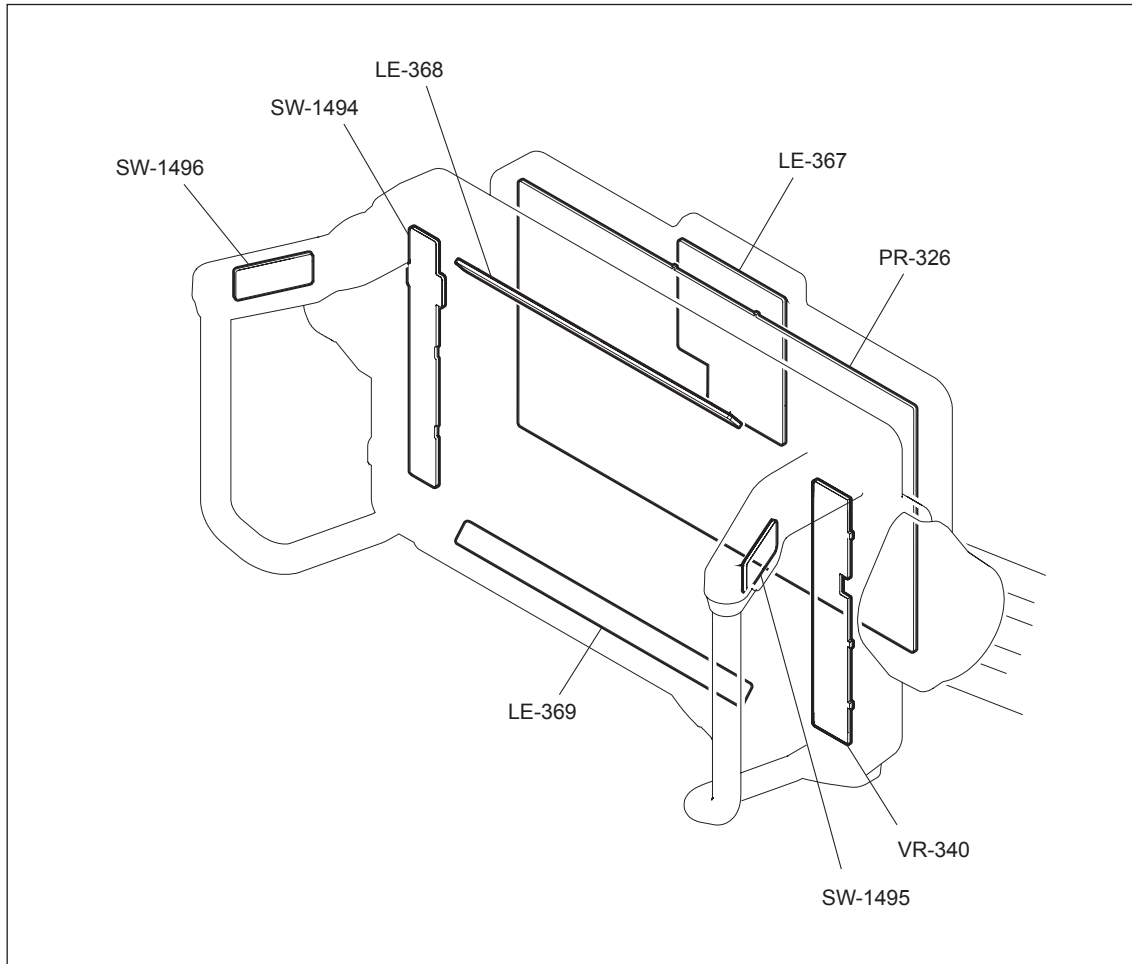
This “Semiconductor Pin Assignments” CD-ROM allows you to search for semiconductors used in Broadcast and Professional equipment.

Part number: 9-968-546-06

Section 1

Service Overview

1-1. Board Location

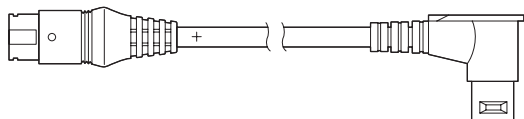


1-2. Connector Input/Output Signals

1-2-1. Conforming Cable

When connecting the HDVF-EL75 to a camera at the time of installation or service, use the supplied VF cable.

Sony part No.: 1-838-608-11



VF side

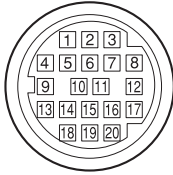
CAMERA side

1-2-2. External Connectors

HDVF-EL75

The following lists input signals and output signals of the VF cable.

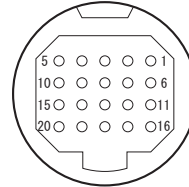
CAMERA (20P, MALE)



(External view)

No.	Signal	I/O	Specifications
1	SDA	IN/OUT	TTL level
2	Y TALLY	IN	ON: +5 V OFF: GND
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 (X)	IN	1.0 Vp-p, Zi = 75 Ω
13	VIDEO GND	—	GND for VIDEO
14	Pb VIDEO (X)	IN	0.7 Vp-p, Zi = 75 Ω
15	Pr VIDEO (X)	IN	0.7 Vp-p, Zi = 75 Ω
16	REC (L)	IN	ON: +5 V OFF: GND
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

VF (20P, MALE)

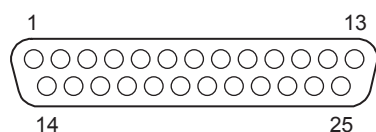


(External view)

No.	Signal	I/O	Specifications
1	SDA	IN/OUT	TTL level
2	Y TALLY	IN	ON: +5 V OFF: GND
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	UNREG	IN	+10.5 V to 17 V
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	UNREG GND	—	GND for UNREG
12	Y VIDEO (X)	IN	1.0 Vp-p, Zi = 75 Ω
13	VIDEO GND	—	GND for VIDEO
14	Pb VIDEO (X)	IN	0.7 Vp-p, Zi = 75 Ω
15	Pr VIDEO (X)	IN	0.7 Vp-p, Zi = 75 Ω
16	REC (L)	IN	ON: +5 V OFF: GND
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

HDVF-EL70

D-SUB (25P, MALE)

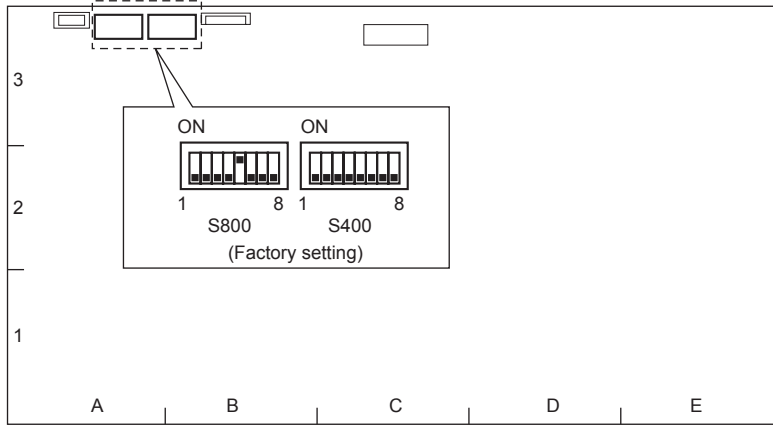


(External view)

No.	Signal	I/O	Specifications
1	Y VIDEO (X)	IN	1.0 Vp-p, Zi = 75 Ω
2	Pr VIDEO GND	—	GND for Pr VIDEO
3	Pr VIDEO (X)	IN	0.7 Vp-p, Zi = 75 Ω
4	Pb VIDEO GND	—	GND for Pb VIDEO
5	Pb VIDEO (X)	IN	0.7 Vp-p, Zi = 75 Ω
6	PEAKING CTL	OUT	ON: +5 V OFF: GND
7	UNREG	IN	+10.5 V to 17 V
8	UNREG	IN	+10.5 V to 17 V
9	UP TALLY	IN	ON: +5 V OFF: GND
10	SDA	IN/OUT	TTL level
11	R TALLY	IN	ON: +5 V OFF: GND
12	NC	—	No connection
13	NC	—	No connection
14	Y VIDEO GND	—	GND for Y VIDEO
15	SCK	IN	TTL level
16	NC	—	No connection
17	CHASSIS GND	—	GND for CHASSIS
18	G TALLY	IN	ON: +5 V OFF: GND
19	UNREG GND	—	GND for UNREG
20	UNREG GND	—	GND for UNREG
21	COLOR/MONO	OUT	COLOR: OPEN MONO: GND
22	NC	—	No connection
23	Y TALLY	IN	ON: +5 V OFF: GND
24	NC	—	No connection
25	NC	—	No connection

1-3. Onboard Switches

PR-326 board



PR-326 board (Side A)

Ref. No.	Name	Bit	Description	Factory setting
S400	—	1 to 3	Not used	All OFF
	—	4, 5	Selection of signal output to TP400/ TP450 4 5 OFF OFF : No output ON OFF : Y or G VIDEO OFF ON : Pb or B VIDEO ON ON : Pr or R VIDEO	All OFF
	—	6, 7	Selection of signal output to TP450 6 7 OFF OFF : IC500 input (PI1D) ON OFF : IC500 input (PI2D) — ON : IC700 input (LVDS)	All OFF
	—	8	Selection of signal output to TP400 OFF: IC250 output ON: IC500 output (POD)	OFF
S800	PORTABLE/ STUDIO	1	Selection of model OFF: HDVF-EL75 ON: HDVF-EL70	All OFF Note These bits were set for the HDVF-EL75 when the board was purchased. When installing this board to the HDVF-EL70, change the setting of these bits.
	IND SEL	2	Selection of function of upper-right indicator OFF: BATT IND (HDVF-EL75) ON: SECRET IND (HDVF-EL70)	
	—	3, 4	Not used	All OFF
	—	5	CPU Issue	ON (always)
	—	6	Not used	OFF
	BOOT SOFT VERSION UP	7	OFF: Normal ON: During upgrading	OFF
	MAIN SOFT VERSION UP	8	OFF: Normal ON: During upgrading	OFF

1-4. Circuit Description

PR-326 Board

The PR-326 board consists of a power supply circuit, video amplifier circuit, low-pass filter (LPF), A/D converter circuit, video signal processing circuit, clock generator circuit, tally control circuit, and micro-processor.

(1) Video signal processing

The analog HD Y/Pb/Pr signal input from CN1 is passed through a video amplifier (IC100, IC130, and IC160) and LPF (IC101). After that, the signal is converted into a 10-bit digital signal of 74 Mbps using an A/D converter (IC250) and output to FPGA (IC300).

FPGA discriminates the format of an input signal using the H/V sync signal generated by a sync separator IC (IC202), and outputs the H/V sync signal (by adding PLL to the sync signal) to the A/D converter.

FPGA also distributes the input HD Y/Pb/Pr digital signal input from the A/D converter to two lines. The distributed digital signal is peaked respectively and output to an image processing IC (IC500).

The image processing IC converts image size and IP and also converts the input HD Y/Pb/Pr digital signal into a Quarter HD RGB digital signal. It also sets brightness and contrast and synthesizes two screens.

The Q-HD RGB digital signal output from the image processing IC is input into FPGA again. FPGA knee-corrects an input signal, superimposes an OSD signal, and outputs it to an LVDS transmitter (IC700).

The LVDS transmitter converts each 10-bit digital signal of RGB and sync signal into an LVDS signal and outputs it to CN8.

(2) Internal test signal generation

FPGA (IC300) has an internal test signal generator circuit and performs switching with a main line's signal.

(3) Control system

CPU (IC800) mutually communicates with FPGA, image processing IC, and a D/A converter (IC9) by serial communication and sets the parameters of an LED driver (IC10) and OSD (IC801). It also sets the parameters of the LPF, A/D converter, and clock generator IC (IC302) by I²C communication. Moreover, the CPU controls a panel module.

The brightness, contrast, and peaking volume level signal lines are connected to the A/D input port of the CPU so as to control them.

The LED driver controls the luminance of a tally and indicator using the PWM control. The D/A converter controls the luminance of an up-tally lamp.

FPGA (IC300) performs I²C communication with the connected camera.

(4) EEPROM

The setting data and the current conduction duration of this unit are recorded in EEPROM (IC903) on the PR-326 board. The model information such as the serial number of this unit is recorded in EEPROM (IC900).

FPGA is compatible with e-Production. It can be upgraded from CN12. (Refer to Section 1-11.)

(5) Power supply circuit

The power supply circuit operates in the range of proper input power supply and has 17 outputs including one circuit directly connected to the UNREG power supply.

- Input voltage monitoring circuit

The input voltage monitoring circuit (IC1001) supplies power to each DC/DC controller IC (IC1100, IC1001, IC1200, IC1201) when an input voltage is in the proper range.

Power operates within an input voltage range of +9.8 V to +19.0 V. Once the power operates, the input voltage monitoring circuit operates within an input voltage range of +7.5 V to +19.5 V. When the input voltage drops below +7.5 V or rises above +19.5 V, Q1003 is turned off and the supply of UNREG power voltage is shut off from the source. The UNREG power voltage is not restored until it enters the proper range.

- Output short-circuit protection circuit

IC1005 to IC1007 monitor output voltages +5 V_A, +3.3 V_D1, +3.3 V_D2, +3.3 V_D3, and +2.5 V. When even one of the output voltages does not satisfy specifications, a DOWN_DET signal (low level) is output.

The controller ICs (IC1100, IC1001, IC1200, IC1201) have an internal output short-circuit protection circuit. When, even in one line, an abnormality occurs in output, the POWERGOOD pin level is turned low.

IC1004 monitors output voltages +9 V_PANEL and +5 V_D. When, even in one line, an output over-voltage occurs, a DOWN_DET signal (low level) is output. When, even in one line, an output voltage drops abnormally, an alarm detection signal is sent to the CPU through IC1008.

The DOWN_DET signal and the POWERGOOD pin output signal are input to IC1003. When an abnormality is detected, IC1003 outputs a SHUT DOWN signal.

Using this SHUT DOWN signal, Q1003 is turned off and the supply of UNREG power voltage is shut off from the source.

- Power control circuit

The +9 V_PANEL, +5 V_D, +5 V_A, +3.3 V_D1, +3.3 V_D2, +3.3 V_D3, and +2.5 V control circuit is a step-down chopper circuit that is controlled by the controller ICs (IC1100, IC1001, IC1200, IC1201).

+9 V_PANEL and +5 V_D are panel power voltages and are turned on and off through IC1008 using the control signal from the CPU.

- Fan control

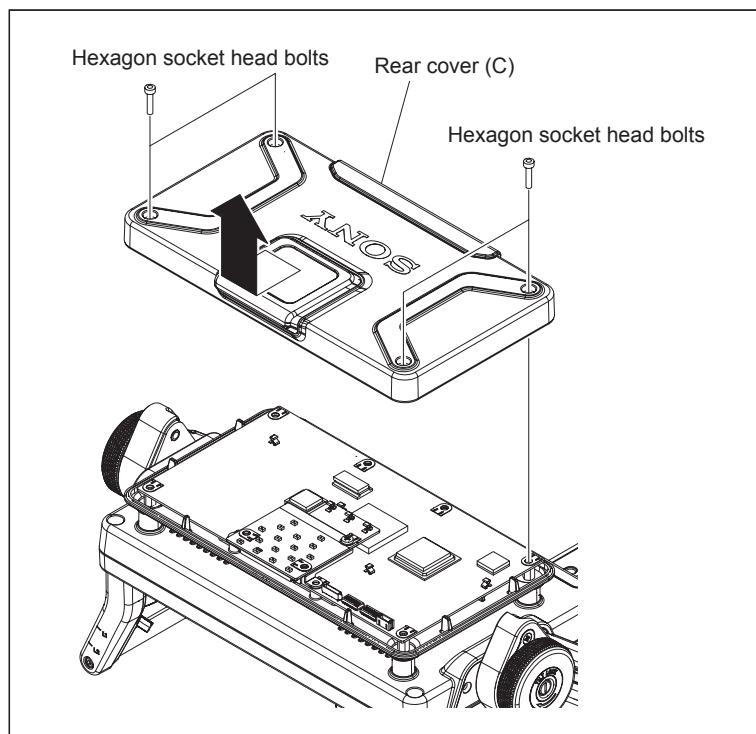
FAN POWER is the DC-DC power voltage generated by IC1306 as fan drive power. It is controlled by the control signal from the CPU in conjunction with the internal temperature sensor (IC905). The output in three modes (fan stop, fan low, and fan high) is available. When the fan fails, an alarm detection signal is sent to the CPU.

IC1307 monitors the output voltage. When an abnormality occurs, an alarm detection signal is sent to the CPU through IC1008. Upon receiving the alarm signal, the CPU outputs a fan stop signal through IC1008 to stop operation of IC1306.

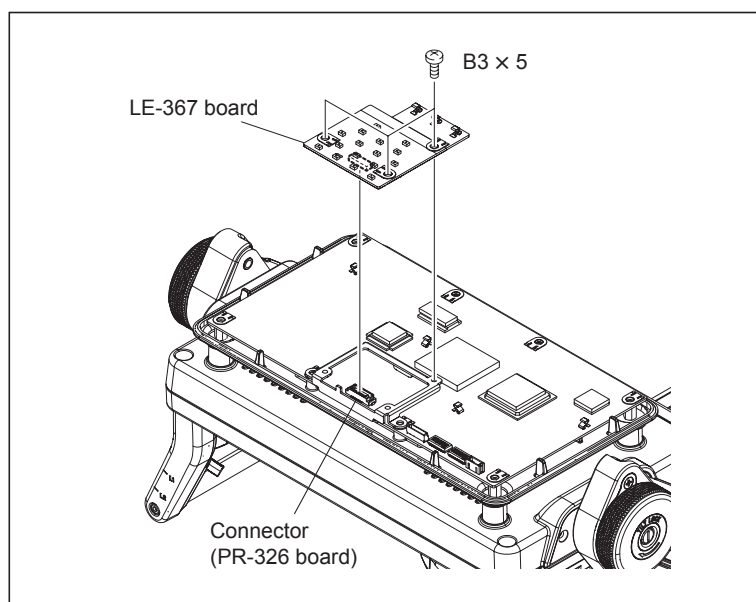
1-5. Removing/Installing Boards

1-5-1. LE-367 Board

1. Remove the four hexagon socket head bolts to detach the rear cover (C) in the arrow direction.



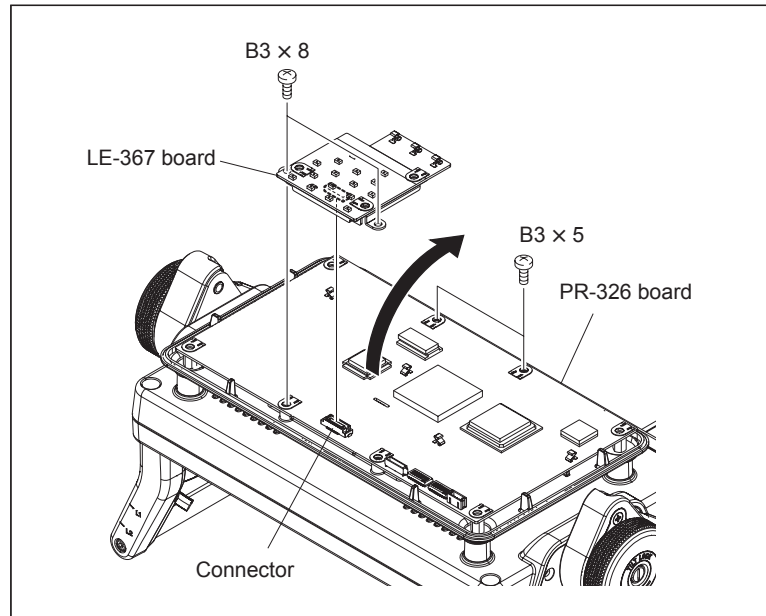
2. Remove the three screws.
3. Remove the LE-367 board from the connector on the PR-326 board.



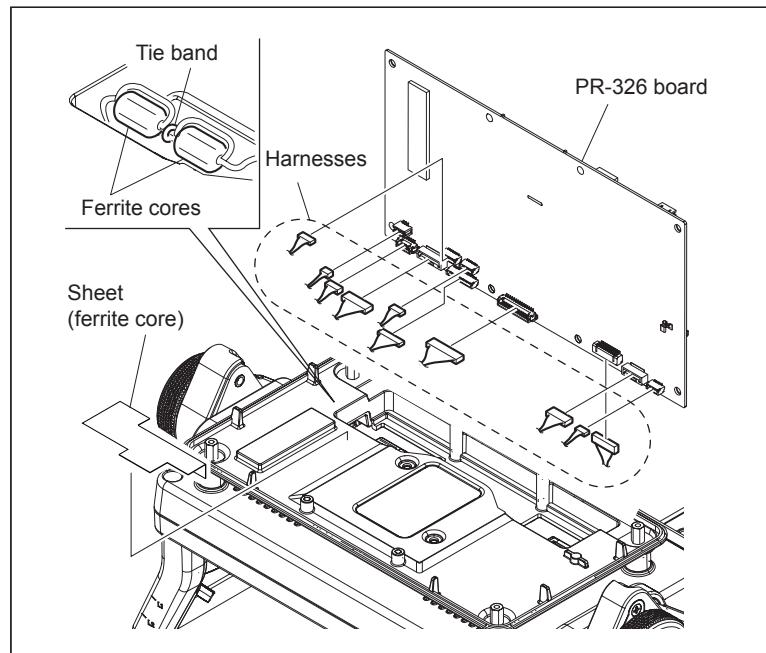
4. Install the removed parts by reversing the steps of removal.

1-5-2. PR-326 Board

1. Remove the two screws.
2. Remove the LE-367 board from the connector on the PR-326 board.
3. Remove the two screws and open the PR-326 board in the arrow direction.



4. Remove the sheet (ferrite core).
5. Cut the tie band that bundles two harnesses with ferrite core.
6. Disconnect the 10 harnesses from the connectors on the PR-326 board, and remove the PR-326 board.

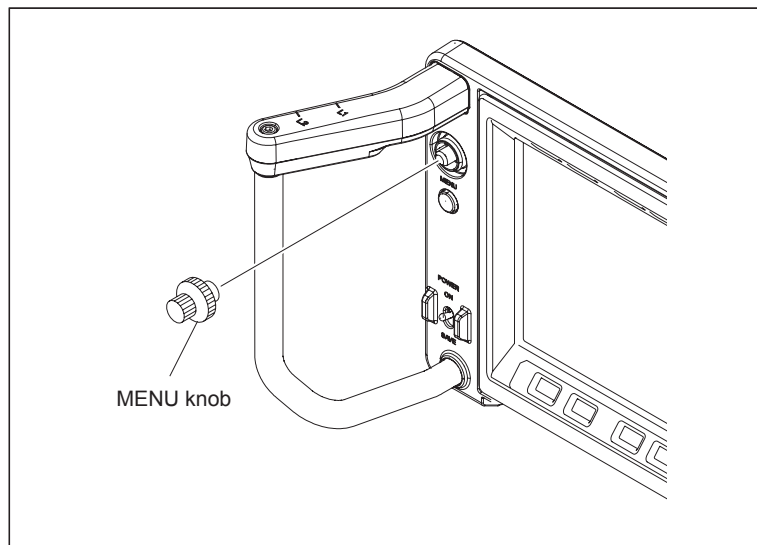


7. Make settings of the DIP switch (S800) on the new PR-326 board. (Refer to Section 1-3.)
8. Install the removed parts by reversing the steps of removal.

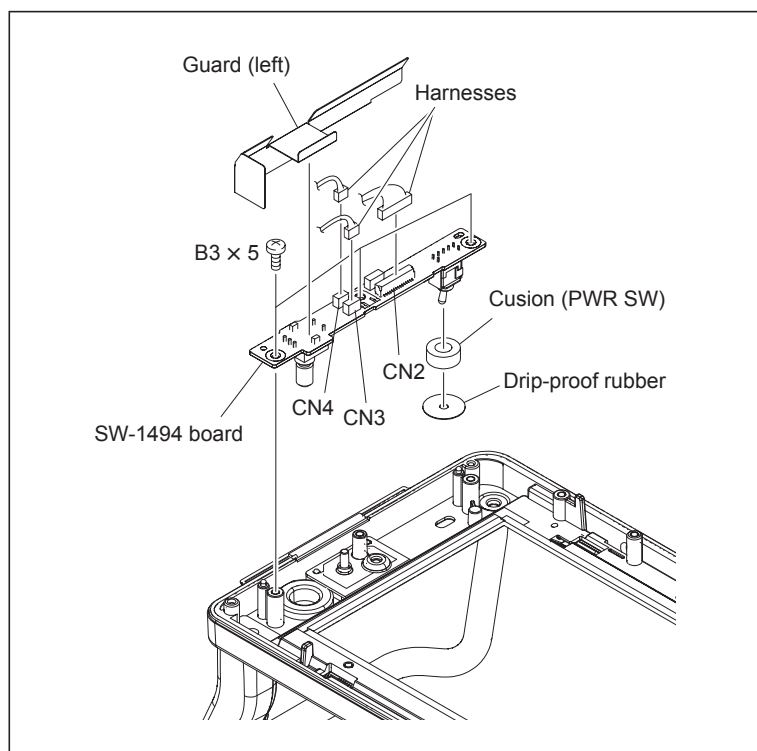


1-5-3. SW-1494 Board

1. Remove the PR-326 board. (Refer to Section 1-5-2.)
2. Remove the OLED panel. (Refer to Section 1-7.)
3. Remove the MENU knob.



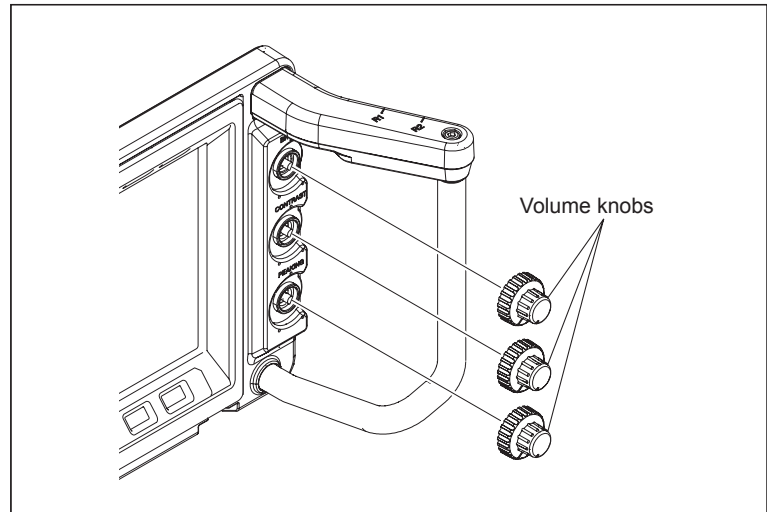
4. Remove the guard (left).
5. Disconnect the three harnesses from the connectors on the SW-1494 board.
6. Remove the three screws and remove the SW-1494 board.
7. Remove the drip-proof rubber and the cushion (PWR SW) from the power switch on the SW-1494 board.



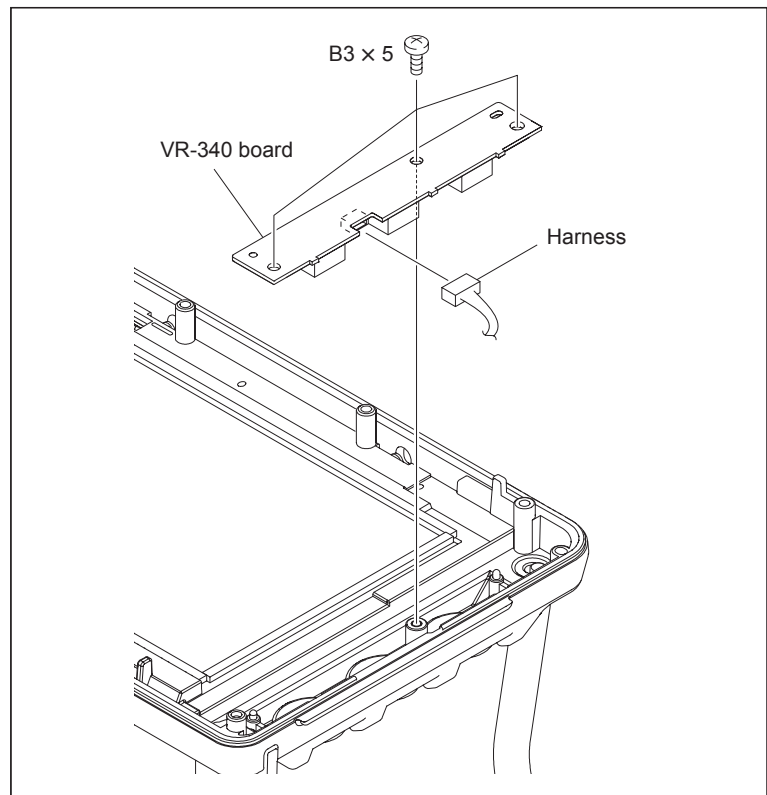
8. Install the removed parts by reversing the steps of removal.

1-5-4. VR-340 Board

1. Remove the PR-326 board. (Refer to Section 1-5-2.)
2. Remove the OLED panel. (Refer to Section 1-7.)
3. Remove the three volume knobs.



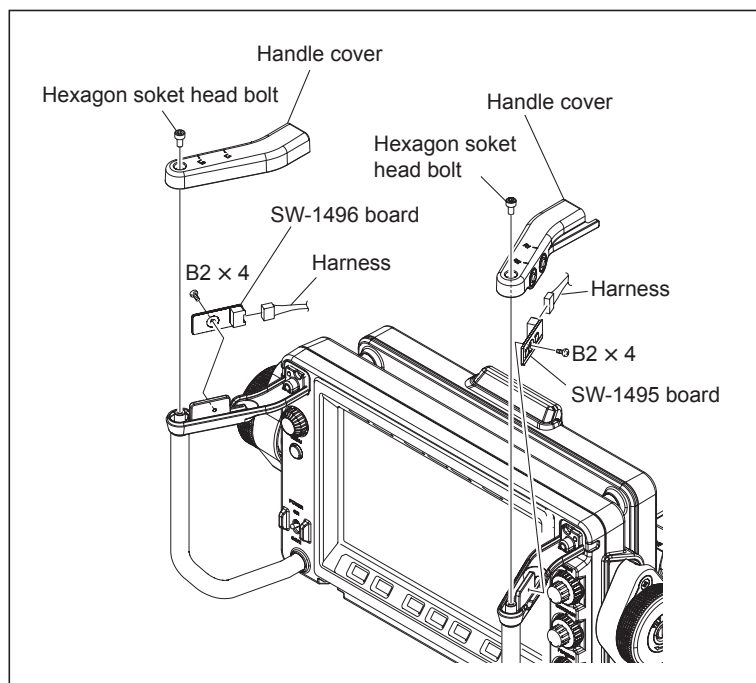
4. Disconnect the harness from the connector on the VR-340 board.
5. Remove the three screws and remove the VR-340 board.



6. Install the removed parts by reversing the steps of removal.

1-5-5. SW-1495 Board/SW-1496 Board

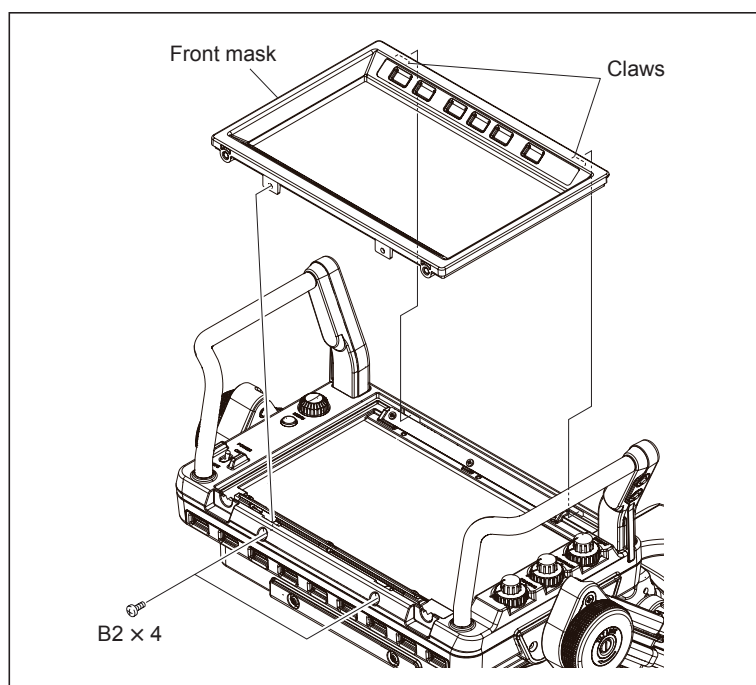
1. Remove the hexagon socket head bolts to detach the handle covers.
2. Disconnect the harness from the connector on the SW-1495 board (or SW-1496 board).
3. Remove the screw to detach the SW-1495 board (or SW-1496 board).



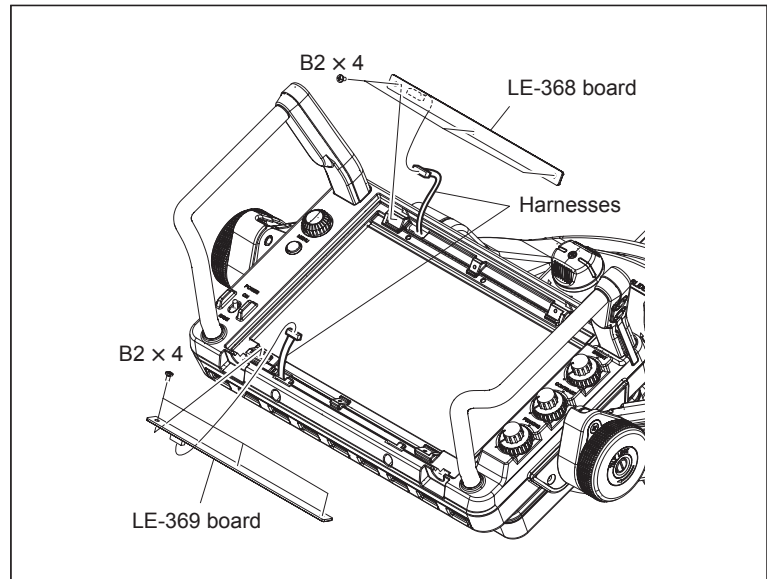
4. Install the removed parts by reversing the steps of removal.

1-5-6. LE-368 Board/LE-369 Board

1. Remove the two screws and detach the front mask while releasing the two claws.



2. Remove the three screws and remove the LE-368 board (or LE-369 board).
3. Disconnect the harness from the connector on the LE-368 board (or LE-369 board).



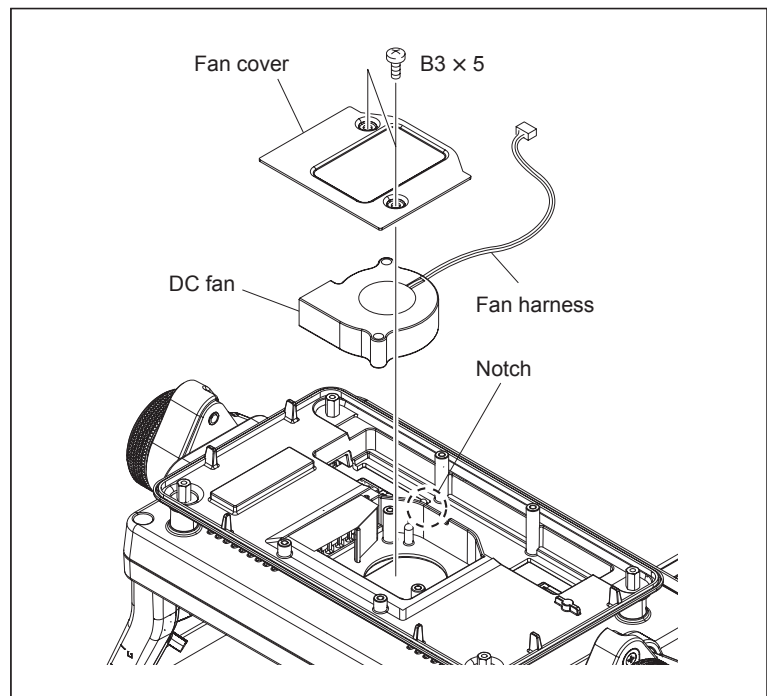
4. Install the removed parts by reversing the steps of removal.

1-6. Replacing the DC Fan

1. Remove the PR-326 board. (Refer to Section 1-5-2.)
2. Remove the two screws to detach the fan cover.
3. Remove the DC fan.
4. Install a new DC fan by reversing the steps of removal.

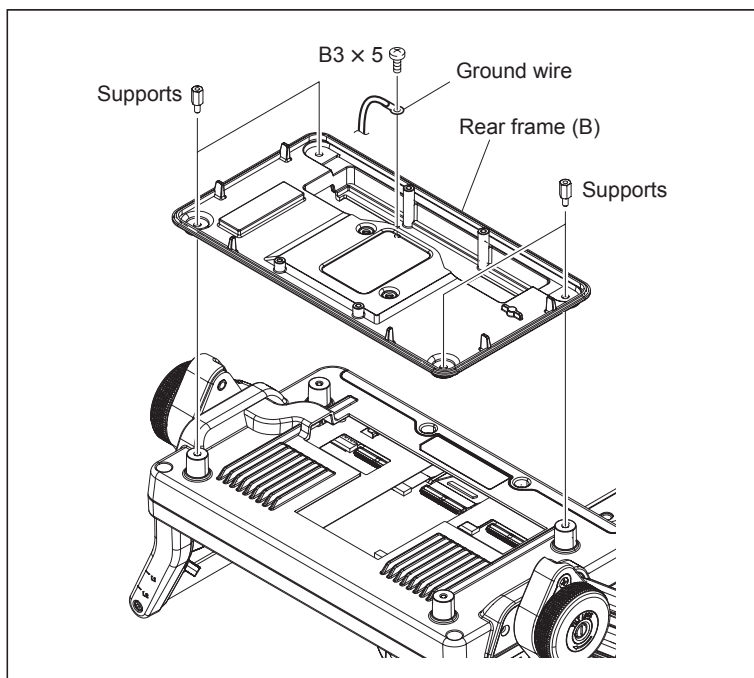
Note

Attach the fan cover carefully so that the fan harness is not caught by the fan cover and check that the fan harness passes through the notch of the chassis.

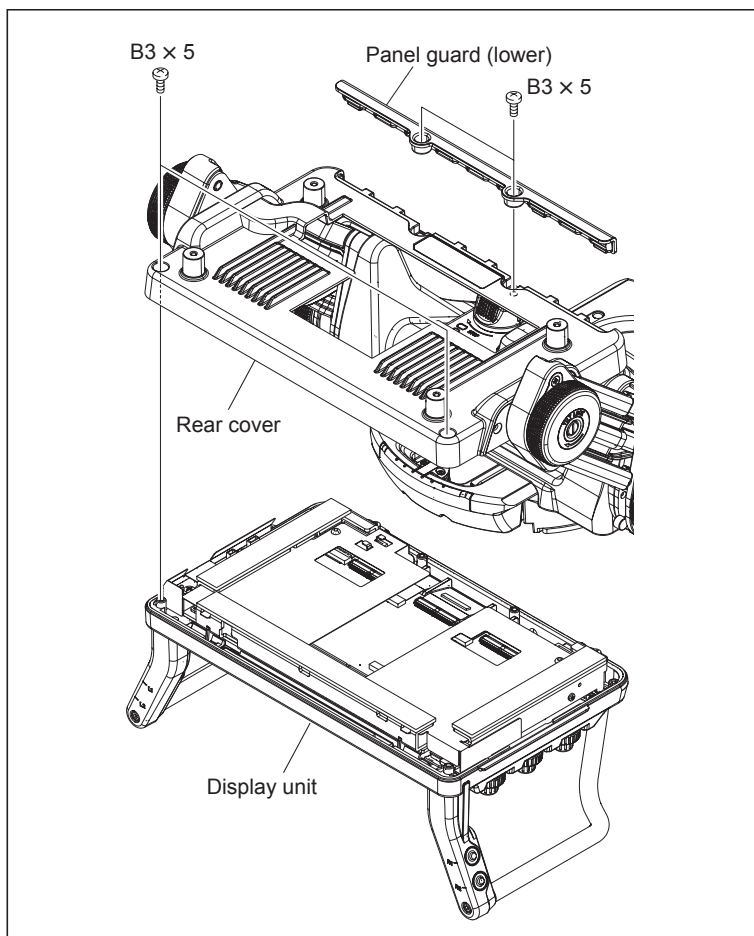


1-7. Replacing the OLED Panel

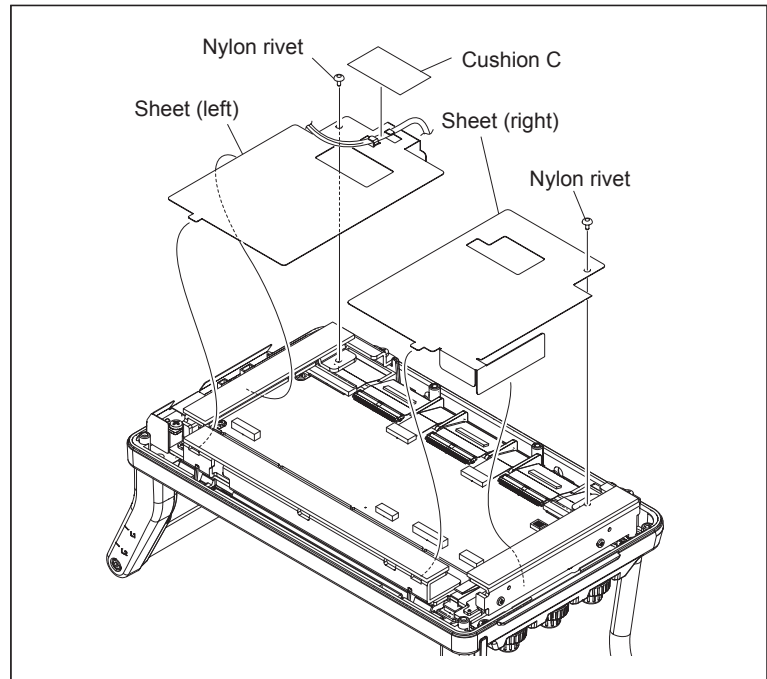
1. Remove the PR-326 board. (Refer to Section 1-5-2.)
2. Remove the screw to disconnect the ground wire.
3. Remove the four supports to detach the rear frame (B).



4. Remove the two screws to detach the panel guard (lower).
5. Remove the two screws and remove the display unit from the rear cover.



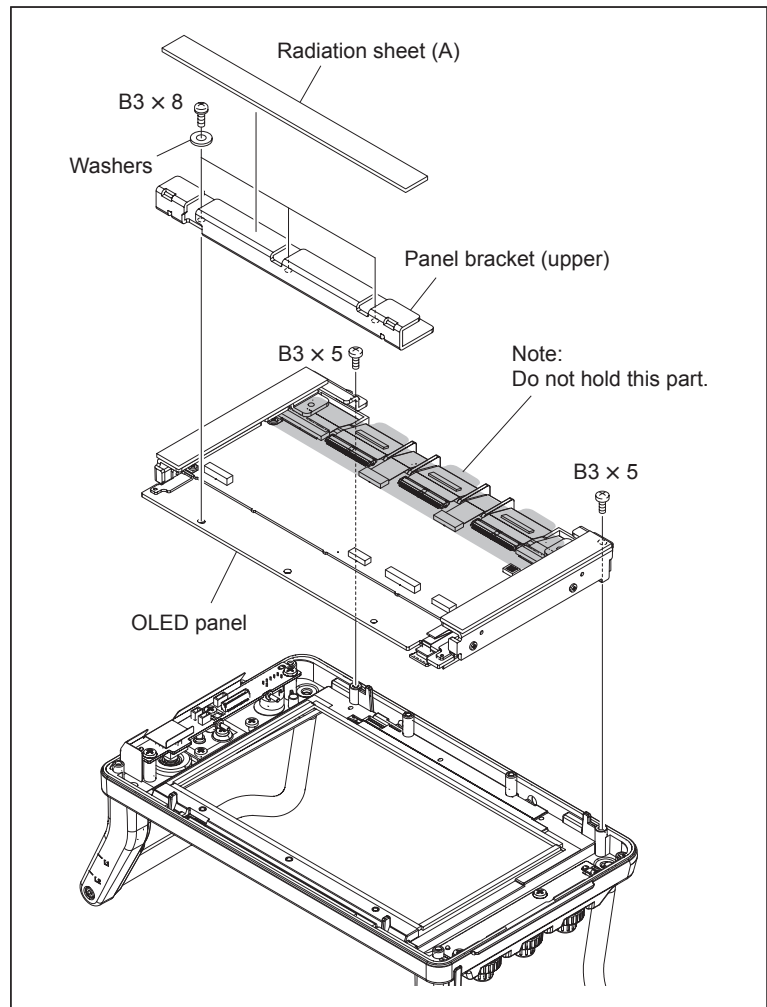
6. Remove the cushion C.
7. Remove the two nylon rivets to detach the sheet (right) and the sheet (left).



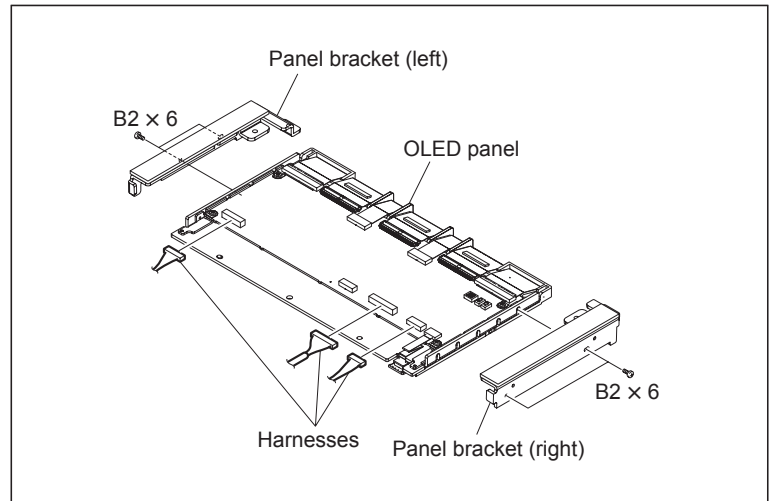
8. Remove the radiation sheet (A).
9. Remove the three screws (B3 × 8) and three washers to detach the panel bracket (upper).
10. Remove the two screws (B3 × 5) and detach the OLED panel paying attention not to catch the harnesses.

Note

Do not hold the area shown in the figure when detaching the OLED panel.



11. Remove the two screws to detach the panel bracket (right).
12. Remove the two screws to detach the panel bracket (left).
13. Disconnect the three harnesses from the connectors.



14. Install a new OLED panel by reversing the steps of removal.

1-8. Replacing VF Holder Unit Components

Note

Tighten screws of the VF holder unit to the following tightening torques.

Setscrew (M3 WP): $0.8 \pm 0.12 \text{ N}\cdot\text{m}$

M3 : $0.8 \pm 0.12 \text{ N}\cdot\text{m}$

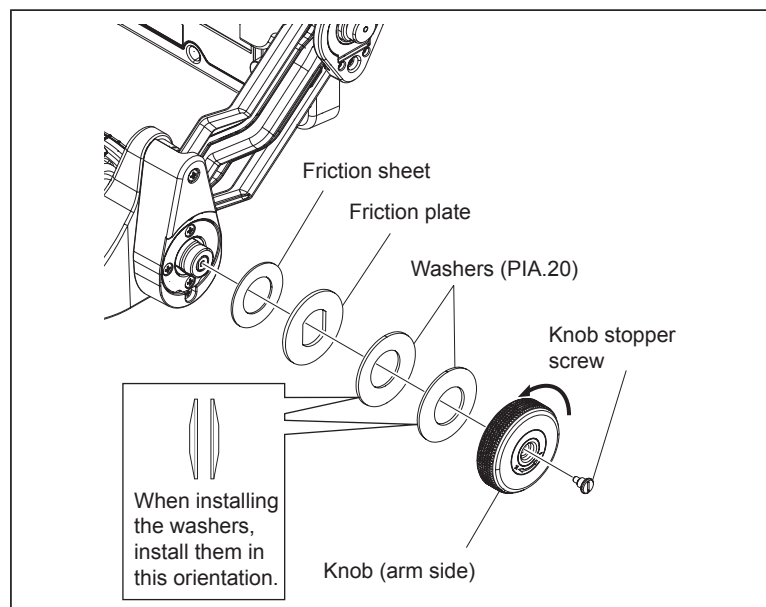
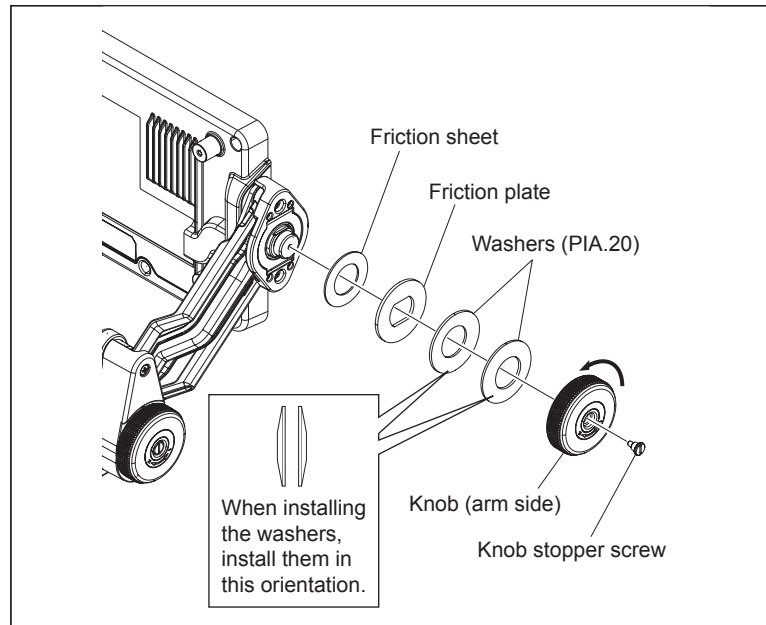
M2.6 : $0.4 \pm 0.10 \text{ N}\cdot\text{m}$

M2 : $0.2 \pm 0.03 \text{ N}\cdot\text{m}$

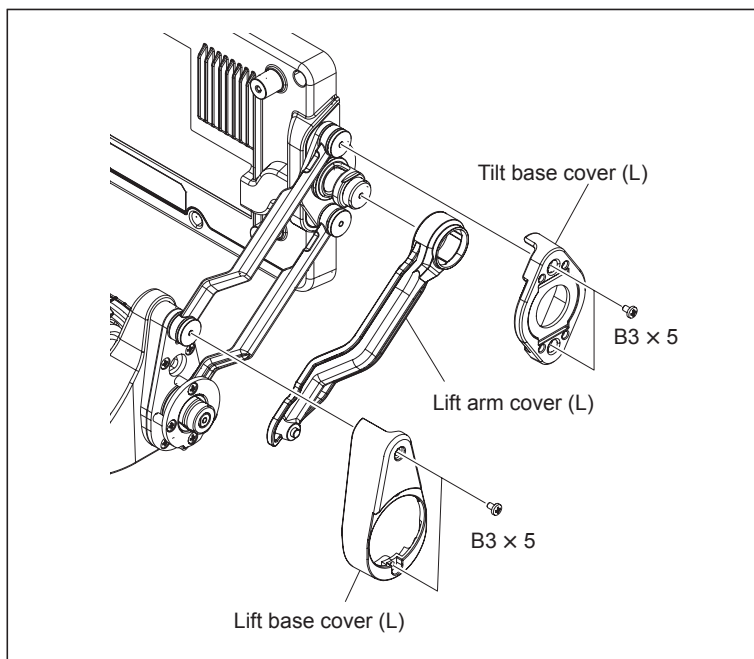
1-8-1. Harness (VF Connection 1) (HDVF-EL70)

Removal

1. Remove the PR-326 board. (Refer to Section 1-5-2.)
2. Perform steps 1 to 5 in “Replacing the OLED Panel” to remove the display unit from the rear panel. (Refer to Section 1-7.)
3. Remove the knob stopper screw.
4. Turn the knob (arm side) counterclockwise to detach it.
5. Remove the two washers (PIA.20), friction plate, and friction sheet.
6. Remove the knob stopper screw.
7. Turn the knob (arm side) counterclockwise to detach it.
8. Remove the two washers (PIA.20), friction plate, and friction sheet.



9. Remove the two screws to detach the tilt base cover (L).
10. Remove the two screws to detach the lift base cover (L).
11. Remove the lift arm cover (L).

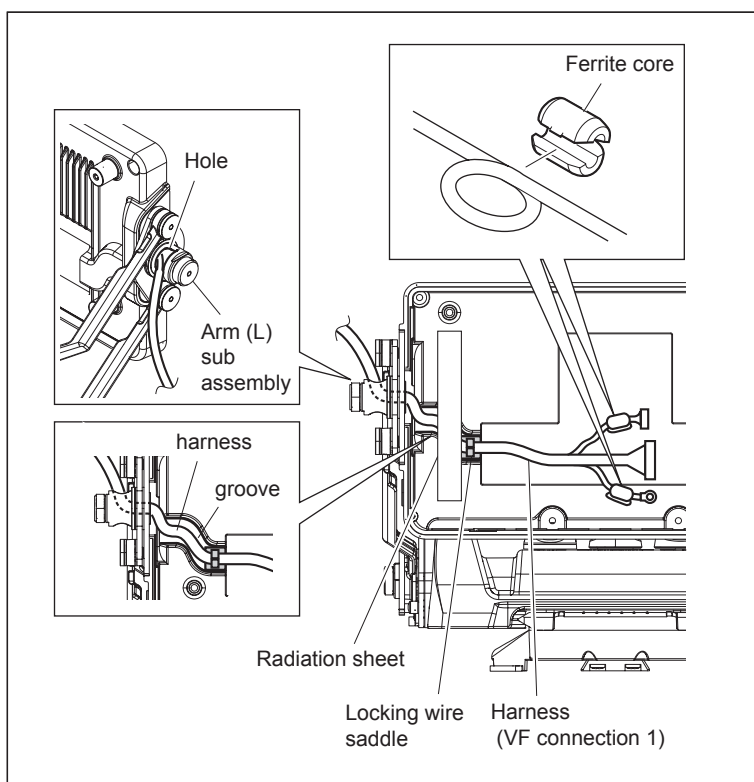


12. Remove the radiation sheet.

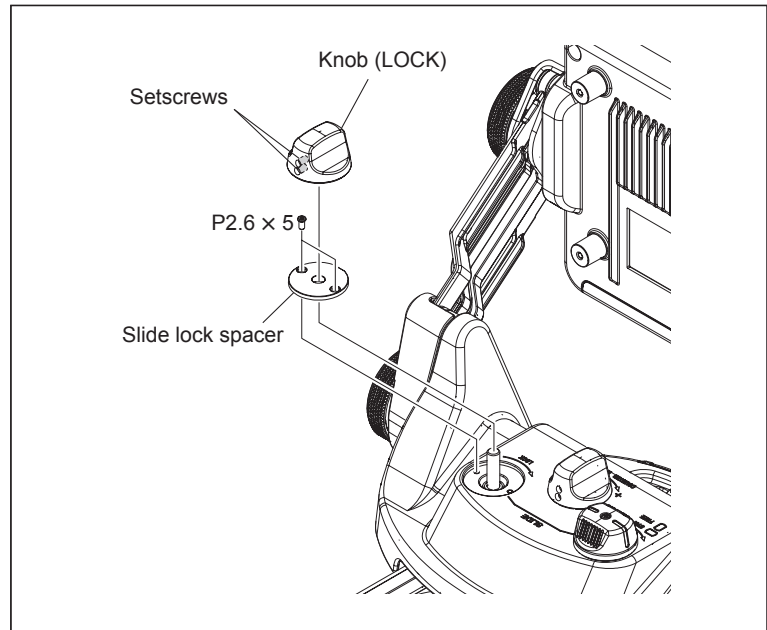
Note

When sticking the radiation sheet, confirm that the harness is fit in the groove.

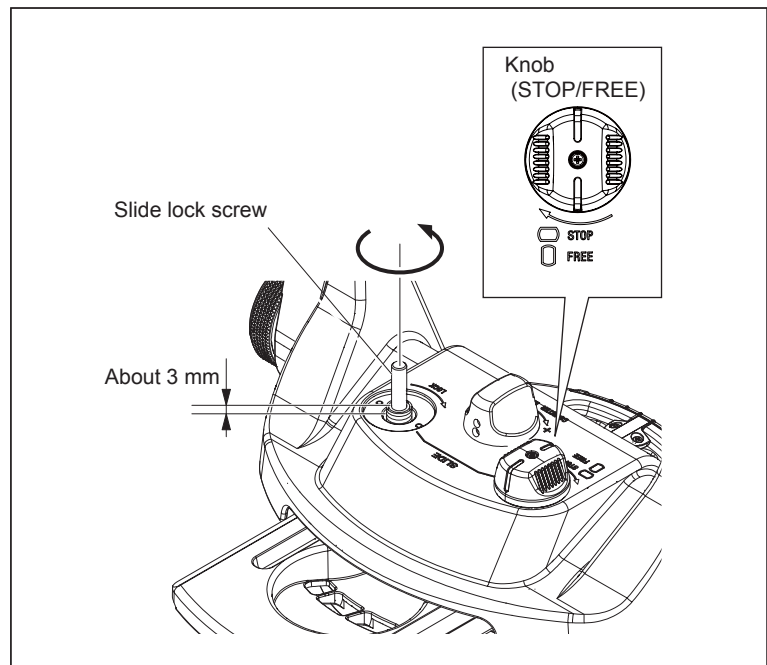
13. Release the harness (VF Connection 1) from the locking wire saddle.
14. Remove the two ferrite cores from the harness (VF Connection 1).
15. Pull the harness (VF Connection 1) out of the hole in the arm (L) sub assembly.



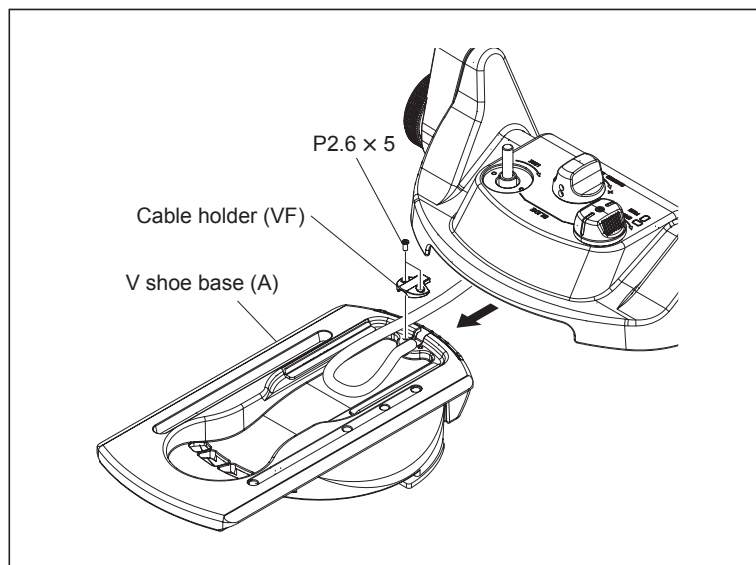
16. Loosen the two setscrews to detach the knob (LOCK).
17. Remove the two screws to detach the slide lock spacer.



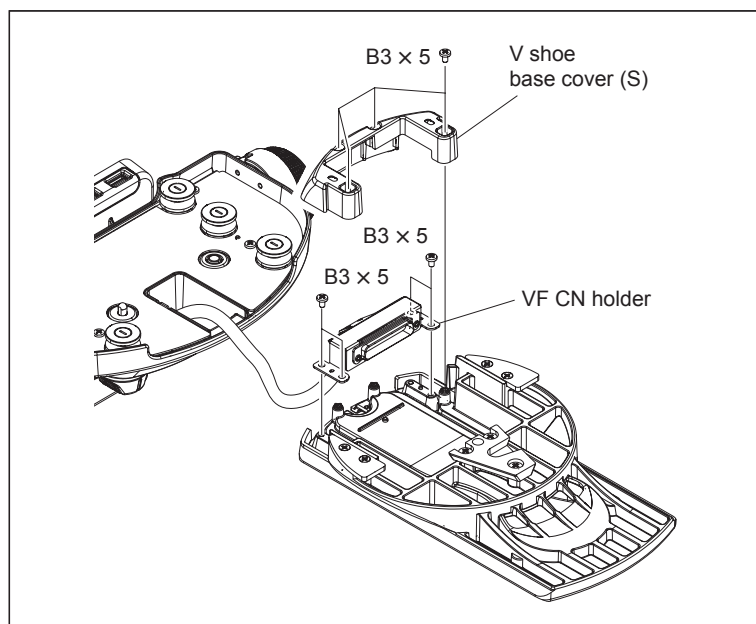
18. Set the knob (STOP/FREE) to "FREE."
19. Turn the slide lock screw counterclockwise to a position where screw threads of about 3 mm are visible.



20. Slide the V shoe base (A) in the arrow direction to remove it.
21. Remove the two screws to detach the cable holder (VF).



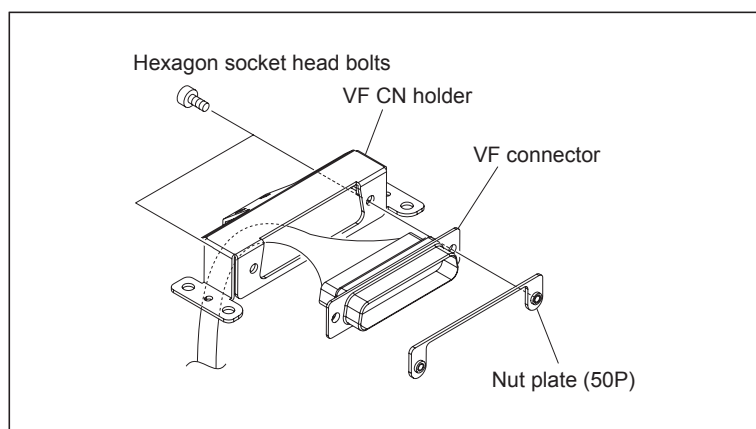
22. Remove the four screws to detach the V shoe base cover (S).
23. Remove the four screws to detach the VF CN holder.



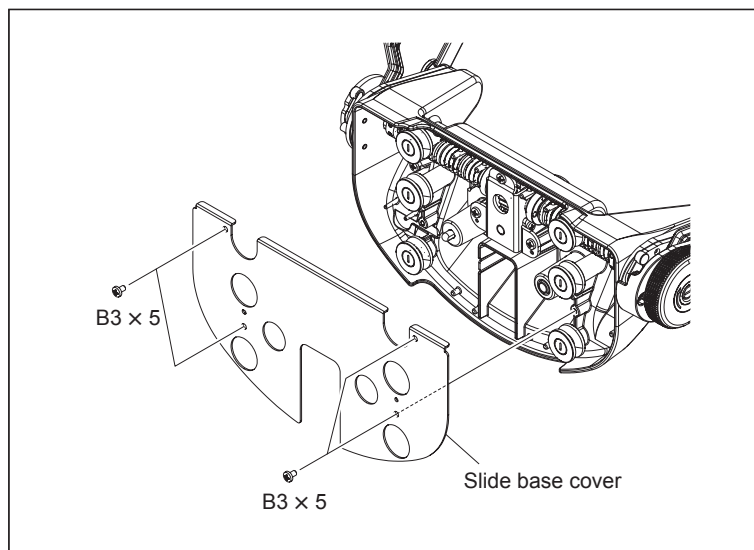
24. Remove the two hexagon socket head bolts and remove the VF connector from the VF CN holder.

Note

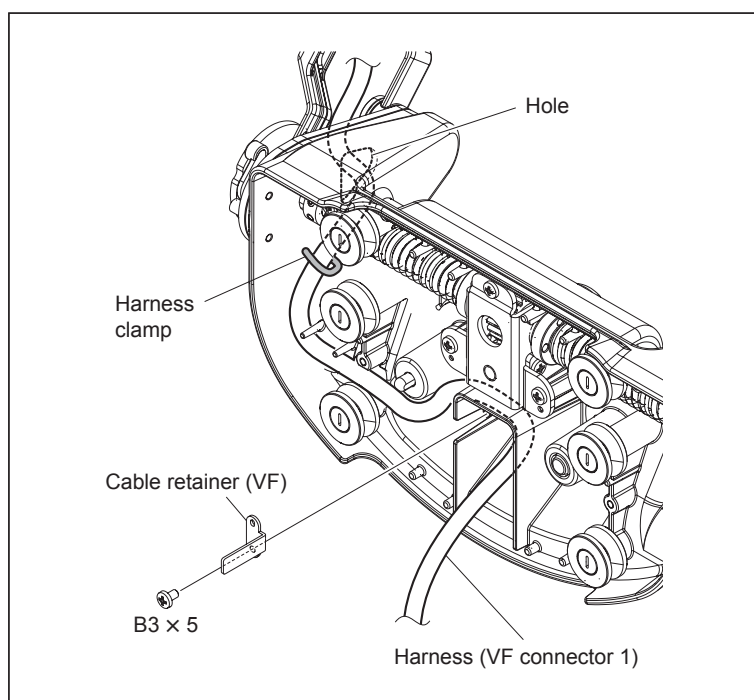
When assembling, install the VF CN holder first, VF connector, and then nut plate.



25. Remove the four screws to detach the slide base cover.

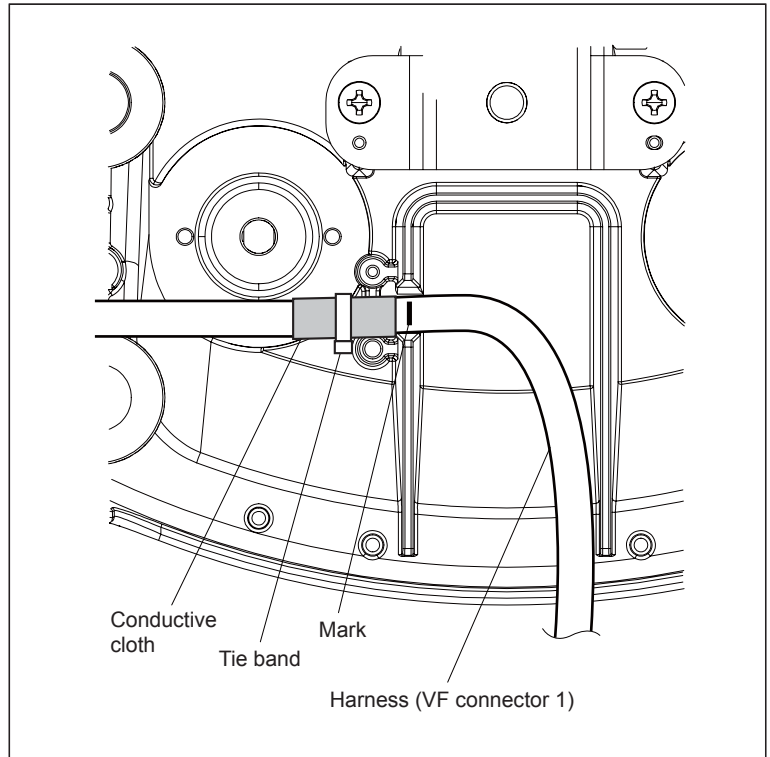


26. Release the harness (VF Connection 1) from the harness clamp.
27. Remove the screw to detach the cable retainer (VF).
28. Pull the harness (VF Connection 1) out of the hole in the slide base.



Installation

1. Pass a new harness (VF Connection 1) through the hole in the slide base.
2. Set the mark on the harness (VF Connection 1) at the position shown in the figure, and secure the cable retainer (VF) with a screw.



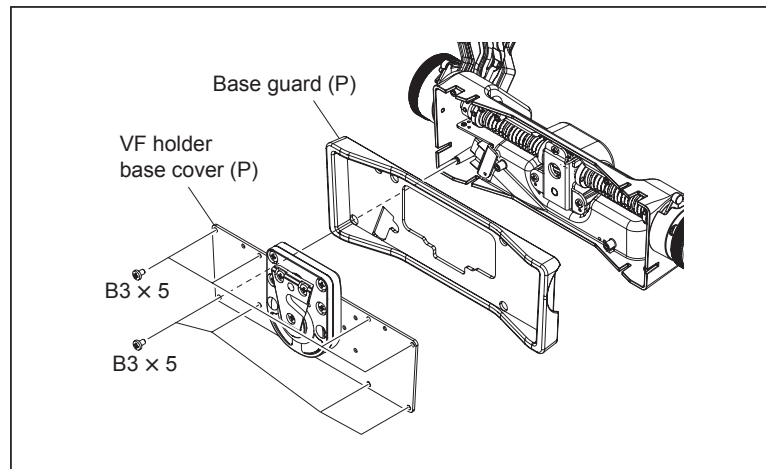
3. Install the removed parts by reversing steps 1 to 26 of removal.

Notes

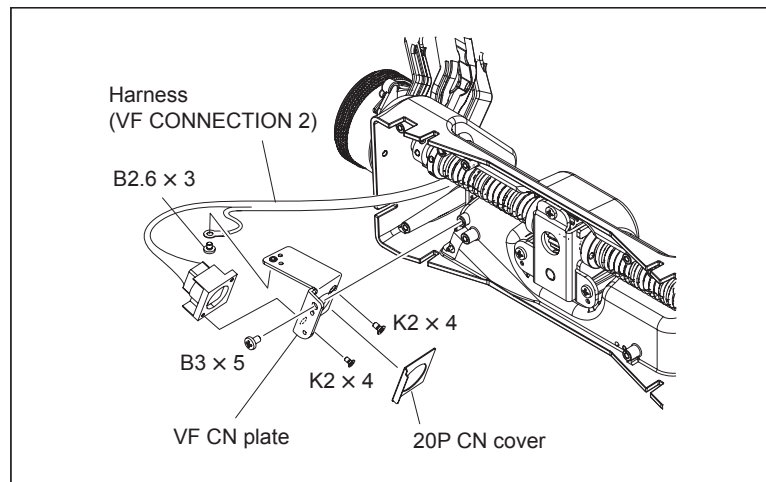
- When installing the VF connector, pay attention to the installation order. (Refer to step 24 of removal.)
- When sticking the radiation sheet, pay attention to the arrangement of the harness. (Refer to step 12 of removal.)

1-8-2. Harness (VF Connection 2) (HDVF-EL75)

1. Perform steps 1 to 15 in “1-8-1. Harness (VF Connection 1)” to pull the harness (VF Connection 2) out of the hole in the arm (L) sub assembly.
2. Remove the eight screws to detach the VF holder base cover (P).
3. Detach the base guard (P).



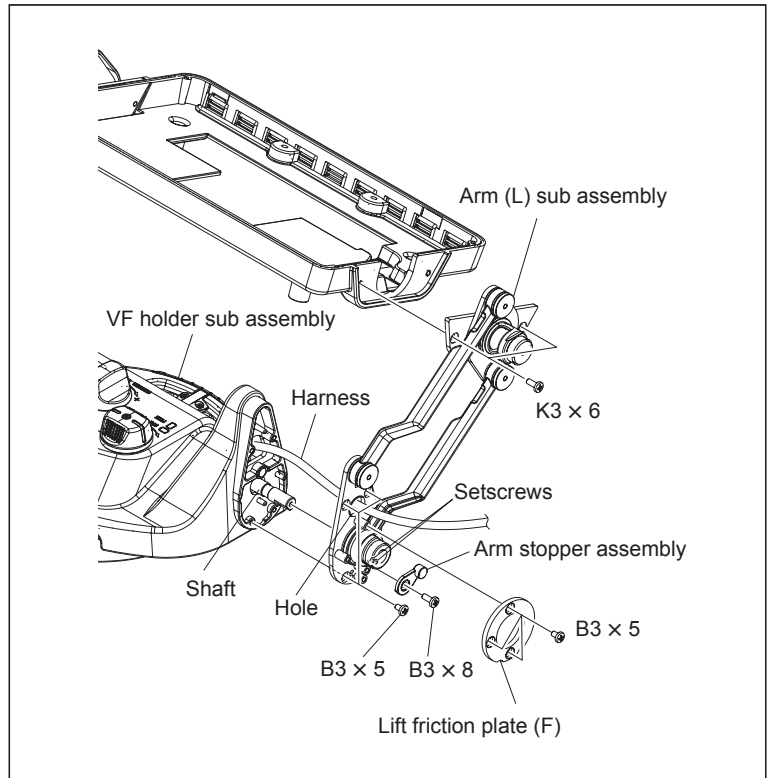
4. Remove the screw (B3 x 5).
5. Remove the screw (B2.6 x 3).
6. Detach the 20P CN cover.
7. Remove the two screws (K2 x 4) and disconnect the harness (VF CONNECTION 2) from the VF CN plate.
8. Pull the harness (VF CONNECTION 2) out of the hole in the VF holder.



9. Install the removed parts by reversing the steps of removal.

1-8-3. Arm (L) Sub Assembly

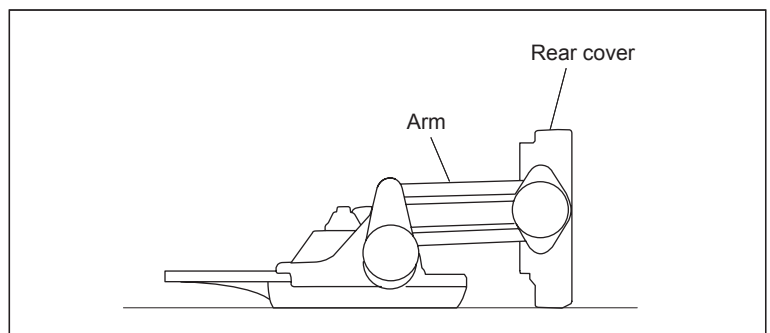
1. Perform steps 1 to 15 in “1-8-1. Harness (VF Connection 1)” to pull the harness (VF Connection 1 or VF Connection 2) out of the hole in the arm (L) sub assembly.
2. Remove the three screws (B3 × 5) to detach the lift friction plate (F).
3. Loosen the two setscrews.
4. Remove the two screws (K3 × 6) of the arm (L) sub assembly.
5. Remove the screw (B3 × 8) to detach the arm stopper assembly.
6. Remove the three screws (B3 × 5) of the arm (L) sub assembly.
7. While pulling the harness out of the hole in the arm (L) sub assembly, remove the arm (L) sub assembly from the shaft of the VF holder sub assembly.



8. Install the removed parts by reversing the steps of removal.

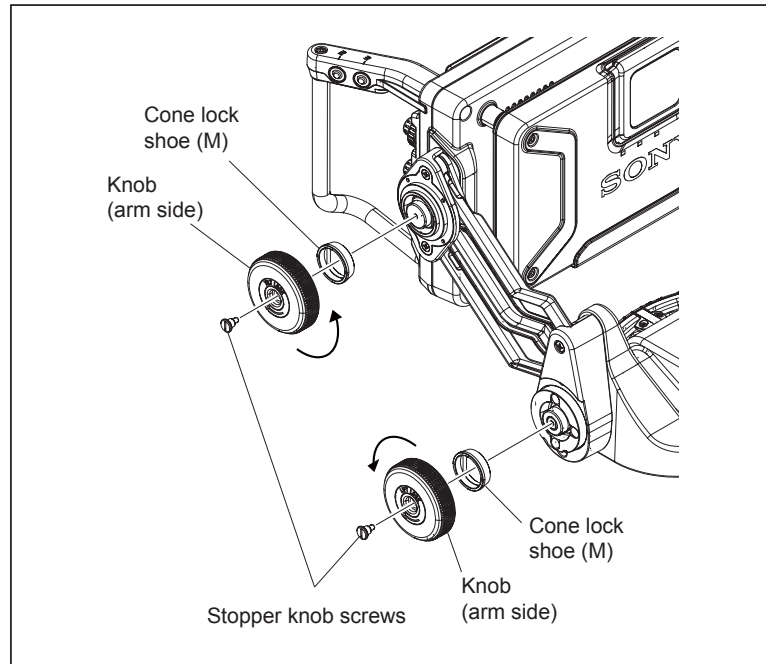
Notes

- Install the right and left arms of the arm assembly in parallel. Otherwise, the rear cover (screen) may tilt.
- To make the right and left arms parallel, it is recommended that you put the rear cover vertically on a level object (such as desk) and tighten setscrews to place the arms on the horizontal surface.

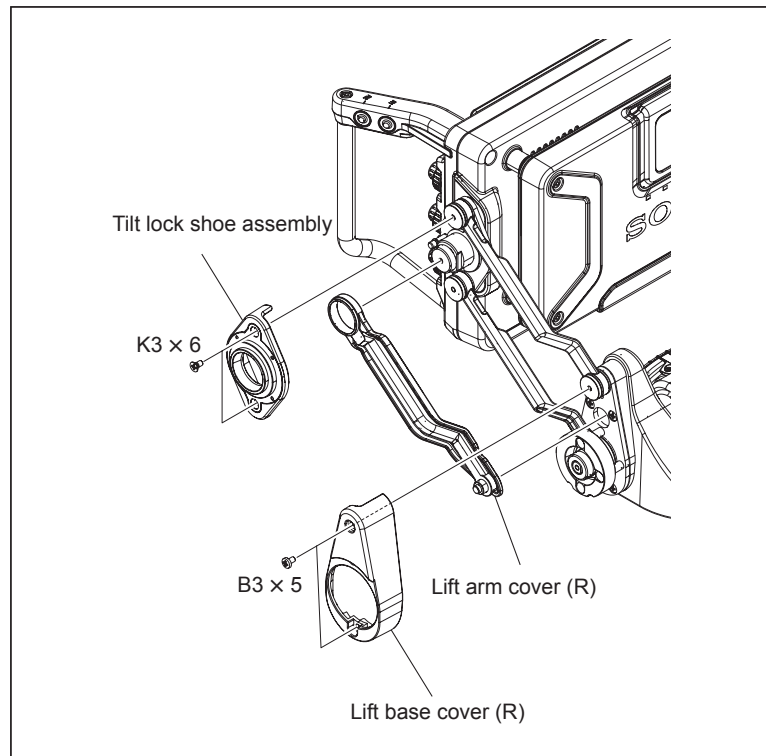


1-8-4. Arm (R) Sub Assembly

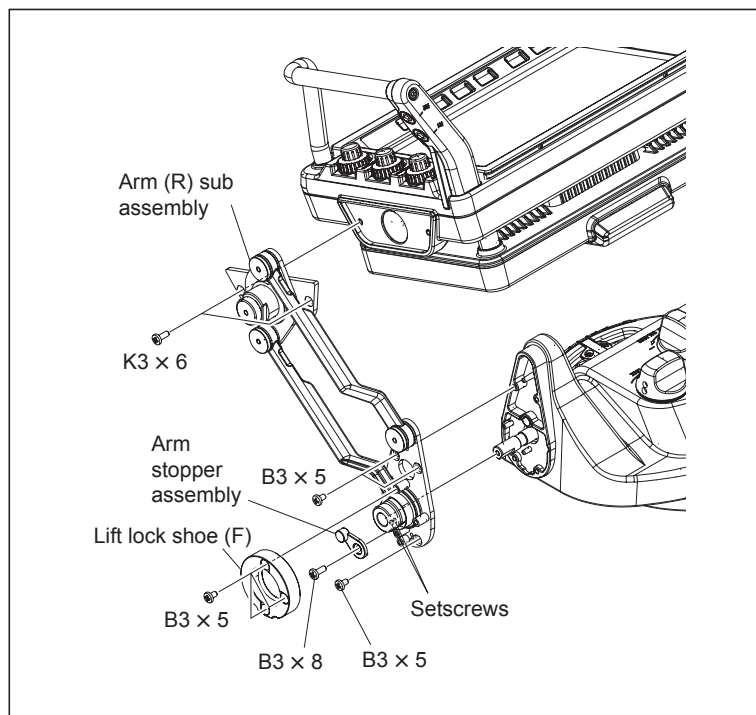
1. Remove the two stopper knob screws and turn the two knobs (arm side) counterclockwise to detach them.
2. Detach the two cone lock shoes (M).



3. Remove the two screws (K3 × 6) to detach the tilt lock shoe assembly.
4. Remove the two screws (B3 × 5) to detach the lift base cover (R).
5. Detach the lift arm cover (R).



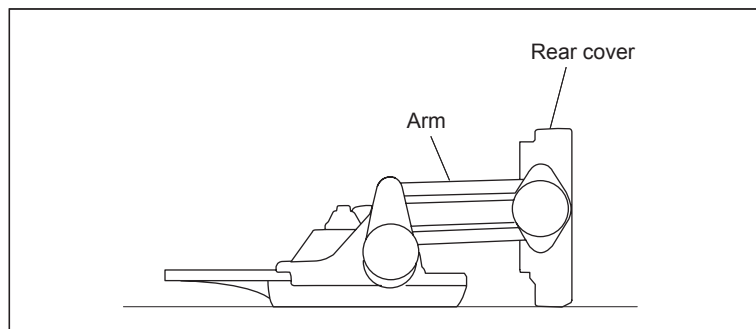
6. Remove the three screws (B3 × 5) to detach the lift lock shoe (F).
7. Loosen the two setscrews.
8. Remove the two screws (K3 × 6) of the arm (R) sub assembly.
9. Remove the screw (B3 × 8) to detach the arm stopper assembly.
10. Remove the three screws (B3 × 5) of the arm (R) sub assembly.
11. Remove the arm (R) sub assembly from the shaft of the VF holder sub assembly.



12. Install the removed parts by reversing the steps of removal.

Notes

- Install the right and left arms of the arm assembly in parallel. Otherwise, the rear cover (screen) may tilt.
- To make the right and left arms parallel, it is recommended that you put the rear cover vertically on a level object (such as desk) and tighten setscrews to place the arms on the horizontal surface.



1-8-5. Adjusting the Arm Lift Angle

The arm lift angle is set as shown in the figure.
Check and adjust the lift angle as needed.

Lift angle range of the arm

HDVF-EL70

HDVF-EL75

Lift stopper (lower-limit setting)

- Set the arm angle to 15 degrees downward and contact the arm with the stopper pin from the other side of the arm.
- Apply locking compound to the two setscrews (WP3 × 4) and tighten them to the specified torque.

Tightening torque:
 $0.8 \pm 0.12 \text{ N}\cdot\text{m}$

Lift stopper (upper-limit setting)

- Set the arm angle to 40 degrees upward and contact the arm with the stopper pin from the arm side.
- Apply locking compound to the two setscrews (WP3 × 4) and tighten them to the specified torque.

Tightening torque:
 $0.8 \pm 0.12 \text{ N}\cdot\text{m}$

Lift stopper (lower-limit setting)

- Set the arm angle to 5 degrees upward and contact the arm with the stopper pin from the other side of the arm.
- Apply locking compound to the two setscrews (WP3 × 4) and tighten them to the specified torque.

Tightening torque:
 $0.8 \pm 0.12 \text{ N}\cdot\text{m}$

Lift stopper (upper-limit setting)

- Set the arm angle to 75 degrees upward and contact the arm with the stopper pin from the arm side.
- Apply locking compound to the two setscrews (WP3 × 4) and tighten them to the specified torque.

Tightening torque:
 $0.8 \pm 0.12 \text{ N}\cdot\text{m}$

HDVF-EL70

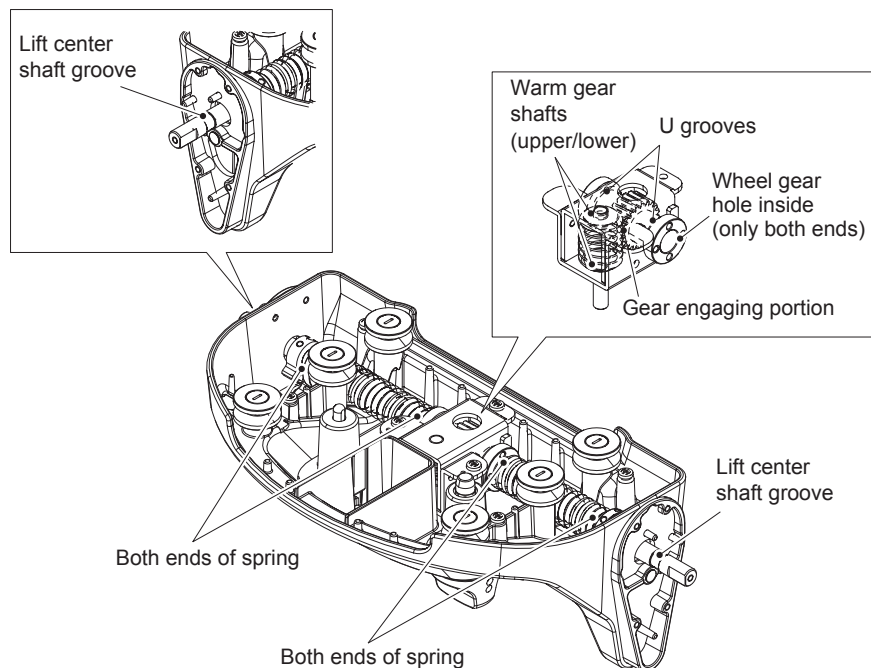
HDVF-EL75

1-9. Notes on Replacing Parts

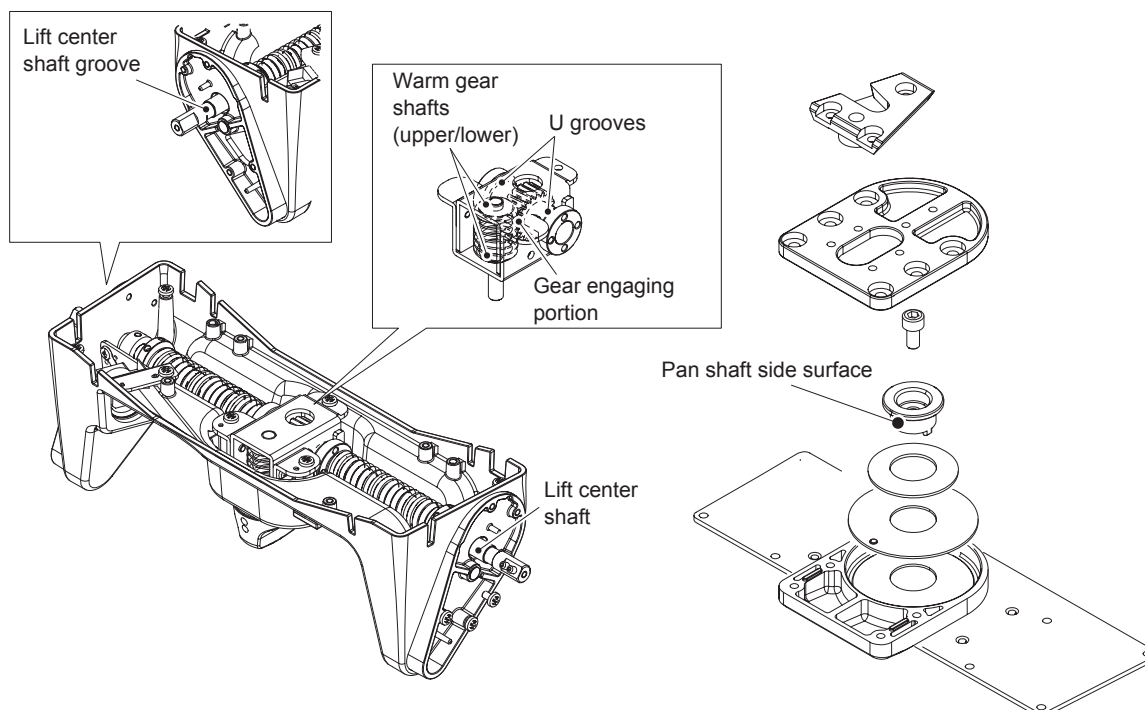
1-9-1. Greasing

The following figures show locations that require greasing. Apply grease to these locations as needed.

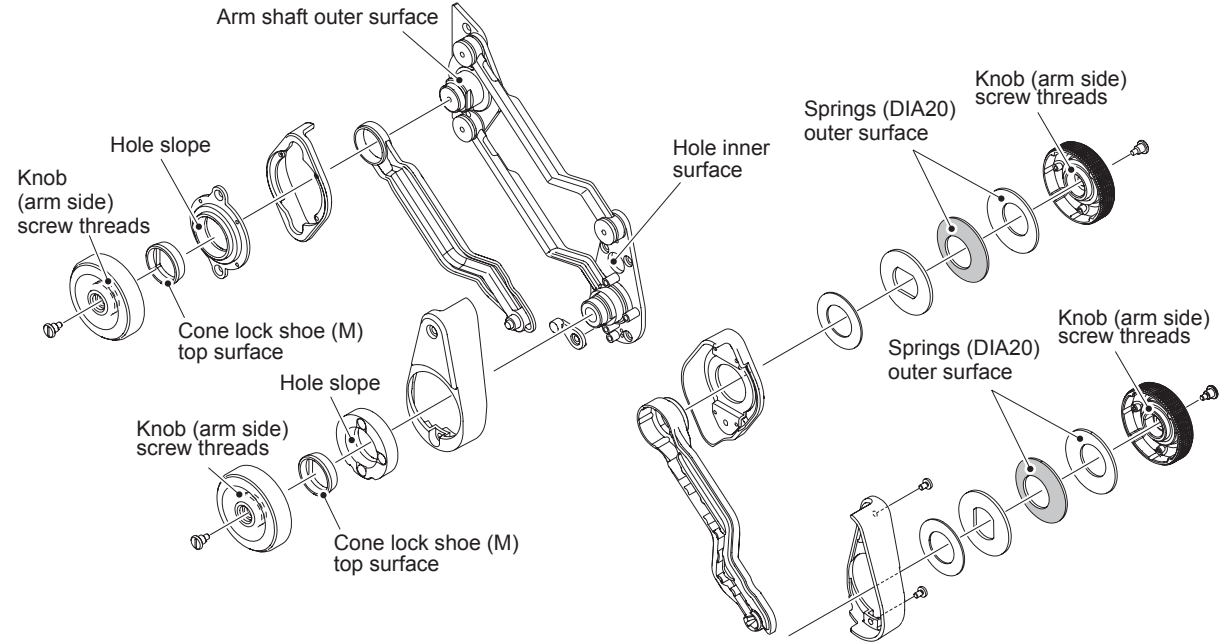
Slide base (S)



Slide base (P)

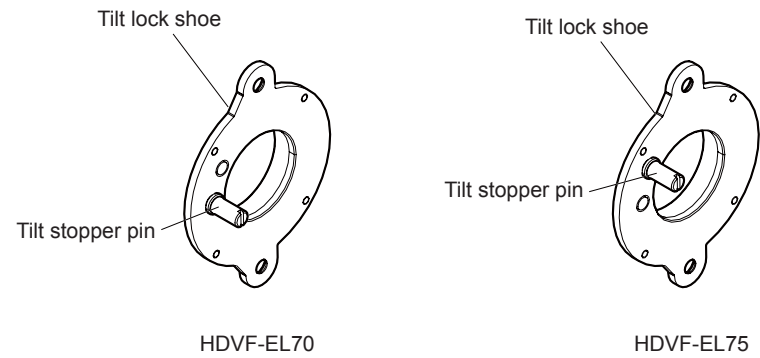


Arm (R), Arm (L)



1-9-2. Tilt Lock Shoe

The tilt stopper pin position of the tilt lock shoe of the HDVF-EL70 is different from that of the HDVF-EL75. Attach the tilt stopper pin at the correct position referring to the figure below.



1-10. List of Tool, Required Equipment, and Adjustment Equipment

Tool

Parts No.	Name	Application
J-7120-220-A	PLD download tool (for USB)	Used for PLD data downloading

Required equipment

Equipment	Model name
HDVS camera	HDC1000R, HDC1500R + HDLA1500, or the equivalent HDDC1500R or the equivalent HDCU1000/1500 or the equivalent

Adjustment Equipment

Adjuster	Model name
Display color analyzer	Konica Minolta sensing CA-210 or the equivalent

1-11. Firmware and PLD Upgrading

Note

Do not version down the ROM. Equipment may not operate normally.

ROMs are mounted on the PR-326 board of this unit.

Board	Ref.No.	Address
PR-326	IC301	B-3/side A
	IC800	A-3/side A

1-11-1. ROM and Software Versions Check

1. Display the TOP menu. (Refer to Section 3-2.)
2. Display the VERSION screen in the SERVICE menu.
3. Confirm the version of ROM

1-11-2. 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 (EPR2) 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 (EPR2 connector) for writing PLD internal data on the board is equipped.
“EPR2” is displayed on the board.

Corresponding PLDs :

Name of board	PLD/ROM	EPR connector	Project file No.
PR-326	IC300/IC301*	CN12	E_000_005_03_xx

* : IC301/PR-326 is the ROM for IC300/PR-326.

Used equipment

- PLD download tool (for USB) (Sony part No. : J-7120-220-A)
- PC
 - Computer with a USB 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 “Procedure of the PLD Download”.

“Procedure of the PLD Download” can be obtained on the same Web site where the PLD Download Tool software is downloaded.

1. Prepare the Project file.

Note

The Project file is made available by downloading it from the Sony database server.

2. With the power of the device turned off, connect the USB port on the PC and the EPR2 connector on the target board with the PLD download tool (cable).
3. Turn on the power of the device.
 - Launch the PLD Download Tool software, and import the Project file.
4. Program the PLD (or the ROM for the PLD) by using the PLD Download Tool software.
5. When the programming completes correctly (without an error message), restart the device.

1-12. Fuse and IC Link Replacement

WARNING

The fuse and IC link are important components for maintaining safety.

Do not replace them with any components other than those specified. This may cause a fire and electric shock. Be sure to use the components specified in a manual.

CAUTION

Do not replace a fuse or IC link with the power connected. This may cause an electric shock.

Do not only turn off the power switch, but also remove this unit from a camera when replacing a fuse or IC link.

The fuse and IC link are mounted on the PR-326 board.

A fuse or IC link is blown when abnormality occurs in equipment and when an overcurrent flows. In this case, turn off the power of the main unit once, inspect the inside of equipment, and remove the cause of an overcurrent. After that, replace the fuse and/or IC link.

Board	Ref. No.	Name	Parts No.
PR-326	F1, F1300	Fuse (1 A/72 V)	△ 1-576-604-21
	F1000, F1100, F1101	Fuse (3.15 A/72 V)	△ 1-576-488-21
	PS1300	IC link (0.4 A)	△ 1-576-122-21

1-13. Lead-free Solder

Boards requiring use of lead-free 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 lead-free solder for the printed circuit board printed with the lead free mark.
- The lead-free 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

Diagnostics

This unit has a diagnostics function for internal errors and multiple internal test signal generator circuits. This section describes troubleshooting.

2-1. STATUS Indicator

This unit has a warning system based on lamp display. The STATUS indicator lights or blinks when an error occurs.

Display	Description	Remedy
Blinking in intervals of 0.5 seconds for two times, followed by going off for 2 seconds.	The internal temperature increased.	Turn off the power once or move the unit to a cool place. The error messages below may be displayed. VF TEMP HIGH: Temperature error
Blinking in intervals of 2 seconds.	IBAC* (screen saver) is in the start state.	To cancel the IBAC* (screen saver), operate a camera or this unit so that an image changes.
Lights.	A fan is in the forced stop state.	The indicator goes off about five minutes after the fan is forcibly stopped, and the fan is switched to automatic control.
Blinking in intervals of 0.5 seconds.	A failure was detected during self-diagnosis.	Check the contents of a failure in "S08 DIAGNOSIS" of a SERVICE menu. (Refer to Section 3-4.) The error messages below may be displayed. BACKUP ERROR: The backup data of EEPROM does not coincide in checksum. VF TEMP HIGH: Temperature error DEVICE ERROR: Device errors other than those described above

※: IBAC (Intelligent Brightness Ambient Control)

This unit has an IBAC function to mitigate burn-in of the screen. When a predetermined time period has passed with an almost still picture displayed, this function is activated automatically to lower the brightness of the screen.

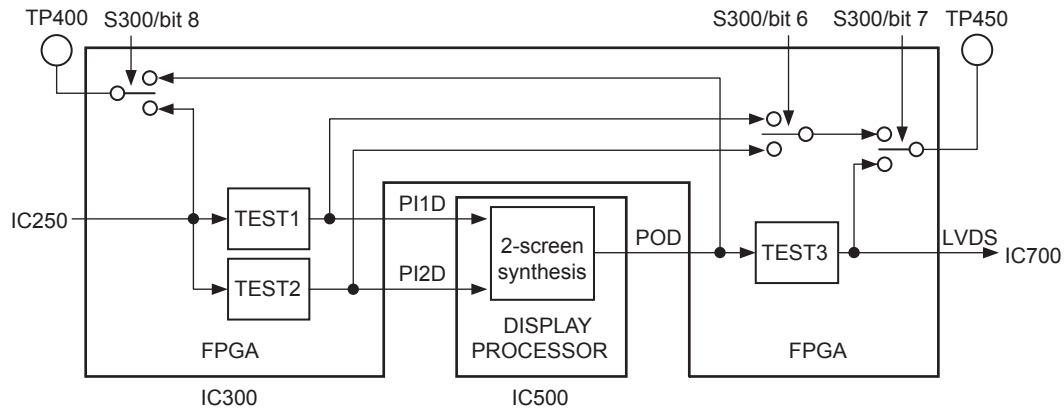
2-2. Device Check

This unit has a self-diagnosis function that checks the communication function of each device. The result of diagnosis is displayed in "S08 DIAGNOSIS" of a SERVICE menu.
(For more details, refer to Section 3-4.)

2-3. Internal Test Signal

A PR-326 board mounts an internal test signal generator circuit.

A defective point can be specified by displaying an internal test signal and observing the waveforms at test pins. (Refer to Section 1-3 for how to switch the signals output to each test pin.)



Section 3

Setting Menu

3-1. Setting Menu

The setting menu is used for selection or adjustment of various setting values.

Setting menu configuration

The setting menu consists of the menus below.

- OPERATION menu
- SERVICE menu

Note

The TOP menu screen is available as another screen that displays the whole configuration of menu items. To display the TOP menu, refer to “3-2. TOP Menu”.

Description of switches

MENU control

This control selects a menu item or changes a setting value.

Turn: Shifts a page or item and changes a setting value.

Press: Determines a page or item and determines a setting value.

MENU switch

This switch displays a setting menu.

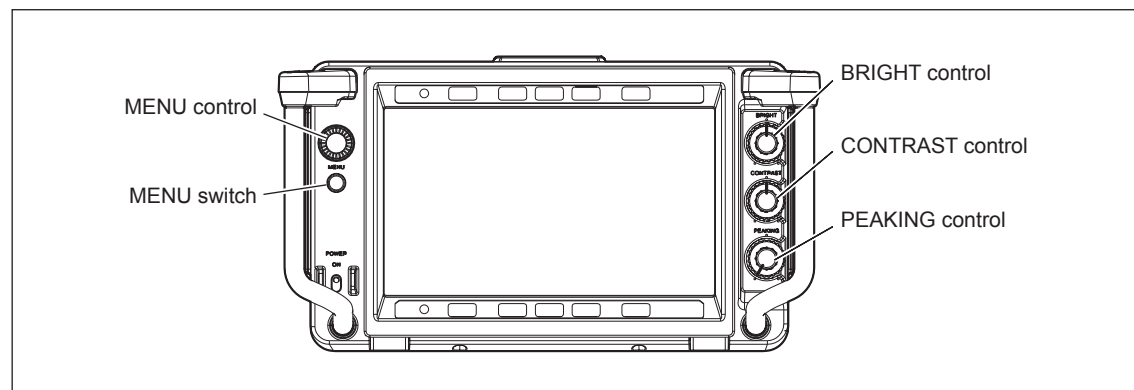
The MENU switch is used when canceling the contents of setting in progress and returning to the page selection mode or TOP menu.

BRIGHT control

CONTRAST control

PEAKING control

This control setting is required when entering a TOP menu.



Basic operations

1. Display the menu.
The OPERATION menu is displayed when you press the MENU switch.
2. Select the menu page.
Turn the MENU control with the “?” mark displayed before the page number (in the page selection mode), display the desired page, and press the MENU control.
3. Select the item.
Turn the MENU control with the “→” mark displayed in the setting item of the selected page (in the item selection mode), move the “→” mark to the item to be changed, and press the MENU control.
4. Change the setting value.
Turn the MENU control with the “?” mark displayed in a setting value (in the setting value change mode) and change the setting value.
For a setting value consisting of numeric characters, the numeric value increases when you turn the MENU control clockwise (↻). It decreases when you turn the MENU control counterclockwise (↻). The numeric value much changes when you rapidly turn the MENU control. It can be fine-adjusted when you slowly turn the MENU control.
5. Determine the setting value.
Press the MENU control.
The setting value is determined, and the current state is returned to the item selection mode.

Note

When you press the MENU switch before pressing the MENU control, the setting value is returned to the value before change and the current state is returned to the item selection mode.
6. Exit the menu display.
The screen is returned to the item selection mode, page selection mode, and then TOP menu* whenever you press the MENU switch. After that, the menu display disappears when you press the MENU switch.
7. Return the setting value to the factory-setting value.
Press the MENU control for two seconds or more with the “?” mark displayed in the setting value to be returned to the factory setting (in the setting value change mode).

*: The operation above is applied to only the operation from a TOP menu. Refer to “3-2. TOP Menu”.

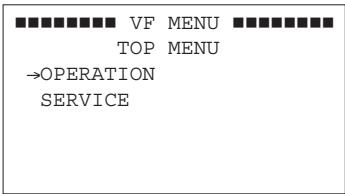
3-2. TOP Menu

The TOP menu is a screen that displays the whole configuration of menu items.

How to display the TOP menu

1. Set the three controls as described below.
BRIGHT control: 99 (Fully clockwise (↻))
CONTRAST control: -99 (Fully counterclockwise (↻))
PEAKING control: 100 (Fully clockwise (↻))
2. Press the MENU switch while holding down the MENU control.
The TOP menu is displayed.

TOP MENU screen



Menu item	Description
OPERATION	The setting items required for operation of this unit are summarized.
SERVICE	The items required for maintenance of this unit such as the electrical adjustment, hours meter, or self-diagnosis function of this unit are summarized.

3-3. OPERATION Menu

The setting items required for operation of this unit are summarized in this OPERATION menu.
For more details, refer to the Operation Manual supplied for this unit.

3-4. SERVICE Menu

The items required for maintenance of this unit such as the electrical adjustment, hours meter, or self-diagnosis function of this unit are summarized in this SERVICE menu.

Notes

- The item may be not able to be selected in the menu item below by the current menu item setting.
- For the item that cannot be selected, “— — —” is displayed in the setting value.

Page	Menu	Item	Setting (□ is a factory-setting value.)	Function
S01	FUNCTION 2	MAG REL TIME	1 to 5 to 10	Sets the time required until returning from the expanded display to the ordinary display when MAGNIFICATION AUTO RELEASE is set to AUTO*1.
		VF ASSIGN SW	LEFT, RIGHT	Switches combination of switches that are settable for the camera ASSIGNABLE switch*2. LEFT: ASSIGN.SW L1/L2 of the left handle is assigned. RIGHT: ASSIGN.SW R1/R2 of the right handle is assigned.
		MENU DISPLAY	AUTO , MANUAL	Sets menu display erasing method. AUTO: Menu display is erased automatically if no menu operation is performed for about one minute after the menu is displayed.*3 MANUAL: Menu display is not erased automatically
		AJC MODE	MODE1 , MODE2	Sets brightness correction mode of the panel module. MODE1 is used normally.
		SECRET IND	OFF , ON	Enables or disables the secret indicator.*4 OFF: Disabled ON: Enabled
S02	TEST	TEST1	OFF , BARS, SAW, RASTER, WINDOW	Sets the internal test signal on the input 1 side before scaling*5. OFF: Outputs no test signal. BARS: Outputs a color bars signal. SAW: Outputs the test signal of a sawtooth waveform. RASTER: Outputs a rectangular test signal. WINDOW: Outputs a window test signal.
		COLOR SELECT	W , R, G, B, YL, CY, MG	Sets the display color during selection of RASTER or WINDOW in TEST1.
		TEST LEVEL	0% to 100% to 109%, MAX	Sets the signal level during selection of RASTER or WINDOW in TEST1.
		TEST2	OFF , BARS, SAW, RASTER, WINDOW	Sets the internal test signal on the input 2 side before scaling*5. OFF: Outputs no test signal. BARS: Outputs a color bars signal. SAW: Outputs the test signal of a sawtooth waveform. RASTER: Outputs a rectangular test signal. WINDOW: Outputs a window test signal.
		COLOR SELECT	W , R, G, B, YL, CY, MG	Sets the display color during selection of RASTER or WINDOW in TEST2.
		TEST LEVEL	0% to 100% to 109%, MAX	Sets the signal level during selection of RASTER or WINDOW in TEST2.
		TEST3	OFF , BARS, SAW, RASTER, WINDOW	Sets the internal test signal after scaling*5. OFF: Outputs no test signal. BARS: Outputs a color bars signal. SAW: Outputs the test signal of a sawtooth waveform. RASTER: Outputs a rectangular test signal. WINDOW: Outputs a window test signal.

(Continued)

*1: Refer to AUTO RELEASE of OPERATION MENU 03 MAGNIFICATION.

*2: Check whether the camera to be connected supports VF ASSIGNABLE SW.

*3: While the SERVICE menu is displayed, this item is disabled (menu display is not erased automatically).

*4: This item is available only for HDVF-EL70 and only when S800-2 on the PR-326 board is set to ON. (Refer to Section 1-3.)

*5: Necessarily operates in the OFF state when the power is turned on.

Page	Menu	Item	Setting (□ is a factory-setting value.)	Function
S02	TEST	COLOR SELECT	[W] , R, G, B, YL, CY, MG	Sets the display color during selection of RASTER or WINDOW in TEST3.
		TEST LEVEL	0% to [100%] to 109%, MAX	Sets the signal level during selection of RASTER or WINDOW in TEST3.
S03	COLOR TEMP	ADJUST ITEM	[OFF] , BIAS, GAIN	Switches the display when adjusting the color temperature of a screen.*5 OFF: Displays an ordinary screen. BIAS: Displays a BIAS adjustment screen. GAIN: Displays a GAIN adjustment screen.
		ADJUST BIAS R	−512 to [0] to 511	Adjusts the color balance (bias).
		ADJUST BIAS G	−512 to [0] to 511	
		ADJUST BIAS B	−512 to [0] to 511	
		ADJUST GAIN R	0 to [256] to 1023	Adjusts the color balance (gain).
		ADJUST GAIN G	0 to [256] to 1023	
		ADJUST GAIN B	0 to [256] to 1023	
		COLOR TEMP	[LOW] , HIGH	Switches the color temperature. LOW: D65 HIGH: D93
S04	KNEE	KNEE	[OFF] , ON	Sets a knee correction circuit to ON and OFF. OFF: Invalid ON: Valid
		KNEE POINT	0 to [180] to 255	Sets a knee point level.
		KNEE SLOPE	1/2, 1/3, [1/4]	Sets a knee slope level.
S05	PEAKING 1	PEAKING MODE	[STD] , PLUS	Select a PEAKING mode. STD: Ordinary mode PLUS: PEAKING PLUS mode
		COLOR/AREA SEL	[COLOR] , AREA, BOTH	In the PEAKING mode, select the mode during selection of PLUS. COLOR: Emphasizes the contour of only the selected color. AREA: Emphasizes the contour of only the selected area. BOTH: Emphasizes the contour of only the selected color and area.
		POSITION	[CENTER] , UPPER, RIGHT, LOWER, LEFT	Select the contour correction target area when AREA or BOTH is selected in COLOR/AREA SEL. CENTER: The center is emphasized in contour. UPPER: The upper part is emphasized in contour. RIGHT: The right is emphasized in contour. LOWER: The lower part is emphasized in contour. LEFT: The left is emphasized in contour.
		PEAKING UP	[OFF] , ON	Sets a function, which increases the amount of peaking by +6 dB in the PEAKING mode during selection of PLUS, to OFF and ON. OFF: RANGE setting value ON: RANGE setting value +6 dB

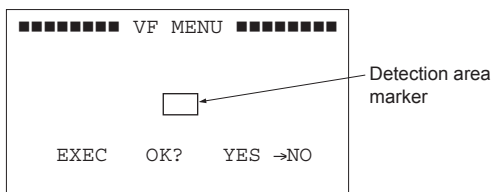
(Continued)

*5: Necessarily operates in the OFF state when the power is turned on.

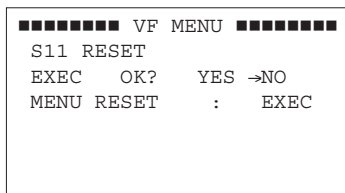
Page	Menu	Item	Setting (□ is a factory-setting value.)	Function
S05	PEAKING 1	COLOR DETECT	EXEC	Automatic color detection function Note These functions only when COLOR or BOTH is selected. The current display is shifted to the execution screen when moving the marker to the color of the desired subject and pressing the MENU control*6.
		LUMINANCE	0 to □512 to 1023	Sets the center value of the luminance to be peaked.
		HUE	0 to □512 to 1023	Sets the center phase of the hue to be peaked.
		SATURATION	0 to □512 to 1023	Sets the center value of the saturation to be peaked.
		LUMI WIDTH	0 to □1023	Sets the range of the luminance to be peaked.
		HUE WIDTH	0 to □64 to 127	Sets the range of the hue to be peaked.
		SAT WIDTH	0 to □128 to 255	Sets the range of the saturation to be peaked.
S06	PEAKING 2	FREQUENCY	L, □M, MH, H	Sets the center frequency of a peaking signal.
		RANGE	1 to □2 to 3	Sets variable peaking amount.
		CRISPENING	0 to □12 to 63	Sets the level in which a peaking is crispened.
S07	HOURS METER	RESET METER	EXEC	Resets operation time. The current display is shifted to the execution screen when you press the MENU control*7.
		OPERATION	Only display	Total power-on time (resettable)
		PANEL	Only display	Total power-on time of panel
		TOTAL	Only display	Total power-on time

(Continued)

*6: The current display is shifted to the execution screen below by moving a "→" mark to EXEC and pressing the MENU control.
Place the detection area marker at the color you want to correct.
This function is executed by moving the "→" mark to "YES" and pressing the MENU control.



*7: The current display is shifted to the execution screen below when moving a "→" mark to EXEC and pressing the MENU control.
This function is executed when moving the "→" mark to "YES" and pressing the MENU control.



Page	Menu	Item	Setting (□ is a factory-setting value.)	Function
S08	DIAGNOSIS	EEPROM	Only display	Displays the self-diagnosis result of EEPROM (IC900) on the PR-326 board. OK: Normal NG: A problem exists in communication or saved data.
		SCALER	Only display	Displays the self-diagnosis result of an image processing IC (IC500) on the PR-326 board. OK: Normal NG: A problem exists in communication.
		FPGA	Only display	Displays the self-diagnosis result of FPGA (IC300) on the PR-326 board. OK: Normal NG: A problem exists in communication.
		CLOCK	Only display	Displays the self-diagnosis result of a clock generation circuit (IC302) on the PR-326 board. OK: Normal NG: A problem exists in communication.
		LPF	Only display	Displays the self-diagnosis result of a LPF (IC101) on the PR-326 board. OK: Normal NG: A problem exists in communication.
		ADC	Only display	Displays the self-diagnosis result of ADC (IC250) on the PR-326 board. OK: Normal NG: A problem exists in communication.
		I/O	Only display	Displays the self-diagnosis result of I/O EXPANDER (IC1008) on the PR-326 board. OK: Normal NG: A problem exists in communication.
		TEMP	Only display	Displays the self-diagnosis result of a temperature sensor (IC905) on the PR-326 board. OK: Normal NG: A problem exists in communication.
		IIC	Only display	Displays the self-diagnosis result of communication with the panel module. OK: Normal NG: A problem exists in communication.
		CC	Only display	Displays the self-diagnosis result of chromaticity correction of the panel module. OK: Normal NG: A problem exists in chromaticity correction.
		POWER	Only display	Displays the self-diagnosis result of power supply to the panel module. OK: Normal NG: A problem exists in power supply.
		FAN	Only display	Displays the fan self-diagnosis result. OK: Normal NG: Failure —: Undefined

(Continued)

Page	Menu	Item	Setting (□ is a factory-setting value.)	Function
S09	VERSION	SOFTWARE	Only display	Displays the software version of IC800 on the PR-326 board.
		FPGA	Only display	Displays the FPGA version of IC300 on the PR-326 board.
		PANEL		
		SOFTWARE	Only display	Displays the software version of the panel module.
		FPGA	Only display	Displays the FPGA version of the panel module.
S10	SERIAL NO.	NVM	Only display	Displays the NVM version of the panel module.
		STORE	EXEC	Writes the serial number of this unit into EEPROM (IC903) on the PR-326 board. The current display is shifted to the execution screen when you press the MENU control*7.
		NO.	xxxxxx	Displays and sets the serial number of this unit.
S11	RESET	MODEL	Only display	Displays the model name of this unit.
		MENU RESET	EXEC	Returns the setting values in a menu to the factory-setting values*8. The current display is shifted to the execution screen when you press the MENU control*7.

*7: The current display is shifted to the execution screen below when moving a "→" mark to EXEC and pressing the MENU control.
This function is executed when moving the "→" mark to "YES" and pressing the MENU control.

```

■■■■■■■■ VF MENU ■■■■■■■■
S11 RESET
EXEC  OK?   YES →NO
MENU RESET :   EXEC

```

*8: The items on page S03 in the SERVICE menu is adjusted during factory setting. They are not reset even if MENU RESET is executed. For the adjustment, refer to "Section 4 Electrical Alignment".

Section 4

Electrical Alignment

Note

This unit is adjusted during factory setting. Adjustment values are saved in IC900 on the PR-326 board. Perform this adjustment when replacing a PR-326 board, or IC900.

4-1. Preparation

4-1-1. Setting of Switches, Volume Controls, and Menus

Note

Set the switches, volume controls, and menus used for adjustment as described below unless otherwise specified.

- ① POWER switch: ON
- ② BRIGHT volume control: 0 (Center)
- ③ CONTRAST volume control: 0 (Center)
- ④ PEAKING volume control: 0 (Fully counterclockwise (↺))

- ⑤ MENU: OPERATION
PAGE: 01 FUNCTION
ITEM: KNEE → OFF
MONOCHROME → OFF
CHROMA → 0
MATRIX → ITU709

- ⑥ MENU: OPERATION
PAGE: 03 PEAKING
ITEM: PEAKING MODE → STD

- ⑦ MENU: OPERATION
PAGE: 04 MAGNIFICATION
ITEM: MAGNIFICATION → OFF

- ⑧ MENU: OPERATION
PAGE: 05 PRESET
ITEM: PRESET → OFF

- ⑨ MENU: OPERATION
PAGE: 08 COLOR TEMP
ITEM: ADJUST BIAS R → 0
ADJUST BIAS G → 0
ADJUST BIAS B → 0
ADJUST GAIN R → 0
ADJUST GAIN G → 0
ADJUST GAIN B → 0

4-1-2. Required Equipment

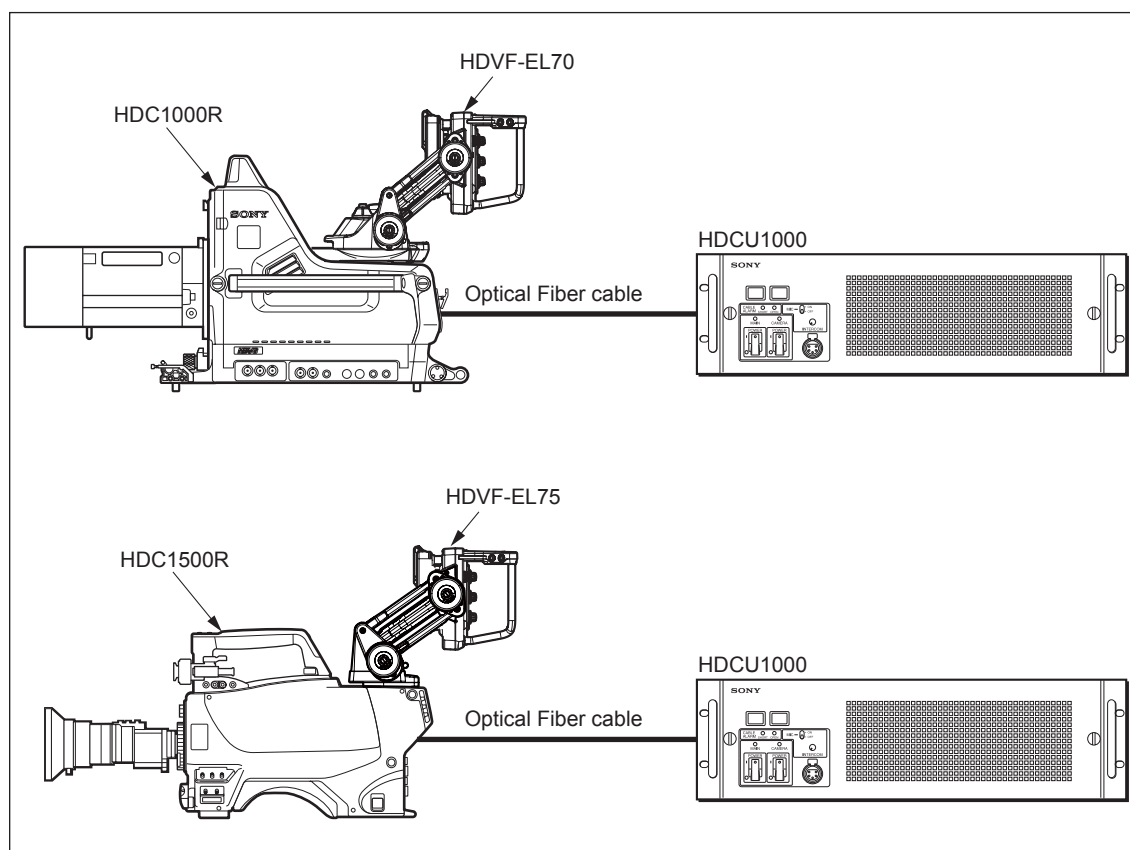
Measuring equipment

- Display color analyzer: Konica Minolta sensing CA-210 or the equivalent

Related equipment

- HDVS camera system: HDC1000R, and HDC1500R + HDLA1500 or the equivalent
HDC1500R or the equivalent
HDCU1000, and HDCU1500 or the equivalent
- Optical fiber cable

4-1-3. Connection



4-1-4. Setting Format

Make adjustments in the 1080/59.94i mode.

For switching format, refer to the operation manual of HDC1000R or HDC1500R.

4-2. Color Temperature Adjustment

Notes

- Adjust it when the color temperature changed due to the aged change after use of this unit.
 - Apply an electric current for about 30 minutes and perform adjustment after luminance is stabilized.
1. Set COLOR TEMP to LOW.
Setting MENU: SERVICE
PAGE: S03 COLOR TEMP
ITEM: COLOR TEMP → LOW
 2. Execute steps (1) and (2) below and perform ADJUST GAIN adjustment.
 - (1) Set ADJUST ITEM to GAIN.
Setting MENU: SERVICE
PAGE: S03 COLOR TEMP
ITEM: ADJUST ITEM → GAIN
 - (2) Switch ADJUST GAIN R, G, and B for adjustment so that the color temperature in the center of a screen satisfies specifications.

Note

Fix the gain of either R, G, or B to 256, and adjust the gain so that the gain of other two colors does not exceed 256.

Setting MENU: SERVICE

PAGE: S03 COLOR TEMP

ITEM: ADJUST GAIN R

ADJUST GAIN G

ADJUST GAIN B

Measuring equipment: Display color analyzer

Measurement point: Center of screen

Specifications: $x = 0.313 \pm 0.005$

$y = 0.329 \pm 0.005$

3. Execute steps (1) to (3) below and perform ADJUST BIAS adjustment.
 - (1) Set ADJUST ITEM to BIAS.
Setting MENU: SERVICE
PAGE: S03 COLOR TEMP
ITEM: ADJUST ITEM → BIAS
 - (2) Set ADJUST BIAS G data to “0”. (ADJUST BIAS G = Fixed to “0”.)
 - (3) Adjust ADJUST BIAS R and B so that the color temperature in the center of a screen satisfies specifications.
Setting MENU: SERVICE
PAGE: S03 COLOR TEMP
ITEM: ADJUST BIAS R
ADJUST BIAS B
Measuring equipment: Display color analyzer
Measurement point: Center of screen
Specifications: $x = 0.313 \pm 0.005$
 $y = 0.329 \pm 0.005$
4. Repeat steps 2 and 3 so that each specification is satisfied.
5. Set ADJUST ITEM to OFF.
Setting MENU: SERVICE
PAGE: S03 COLOR TEMP
ITEM: ADJUST ITEM → OFF

Section 5

Spare Parts

5-1. Notes on Repair Parts

1. Safety Related Components Warning

WARNING

Components marked △ 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.

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.

5-1. 補修部品注意事項

1. 安全重要部品

△警告

△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。

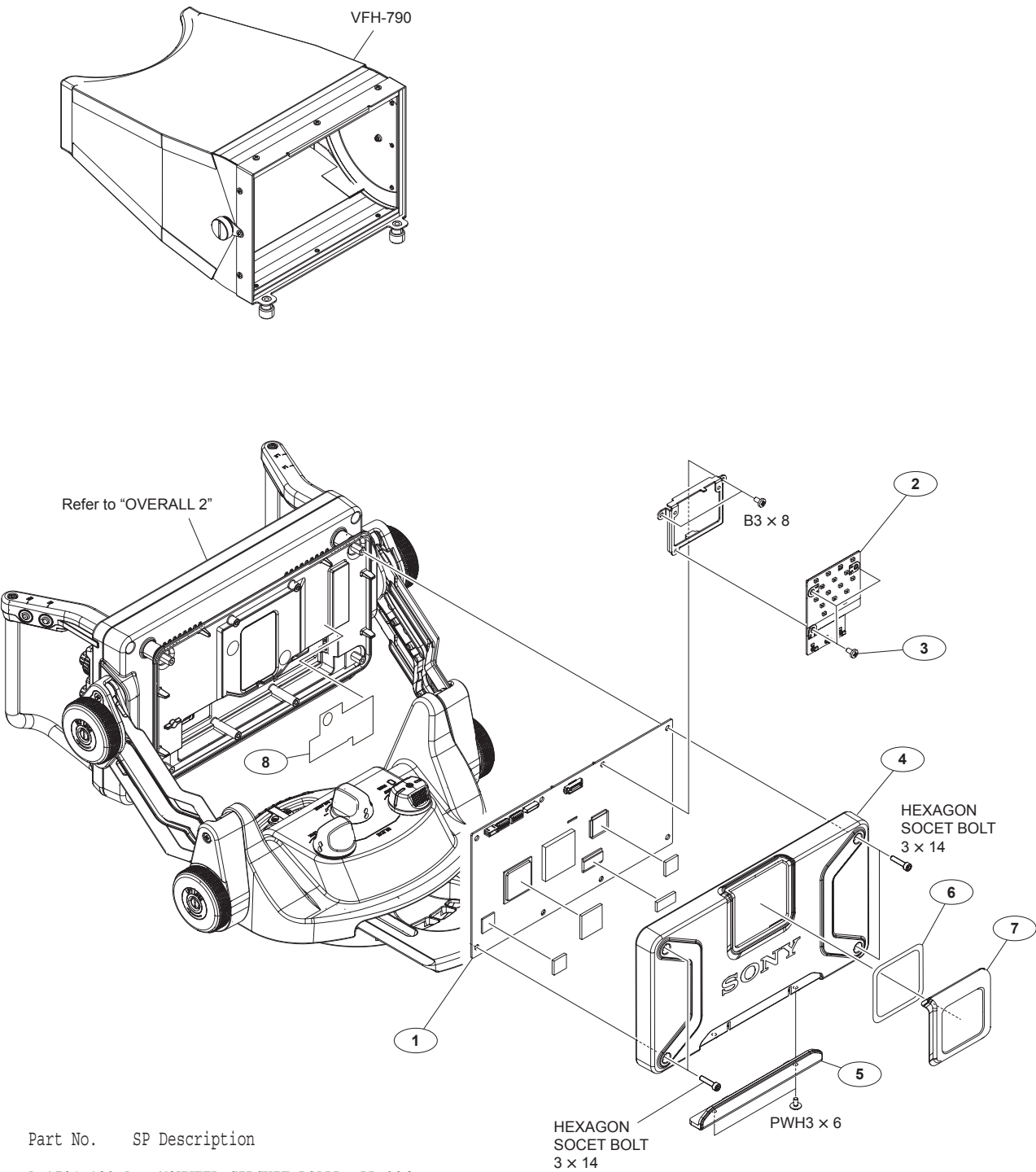
3. 部品の在庫

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。

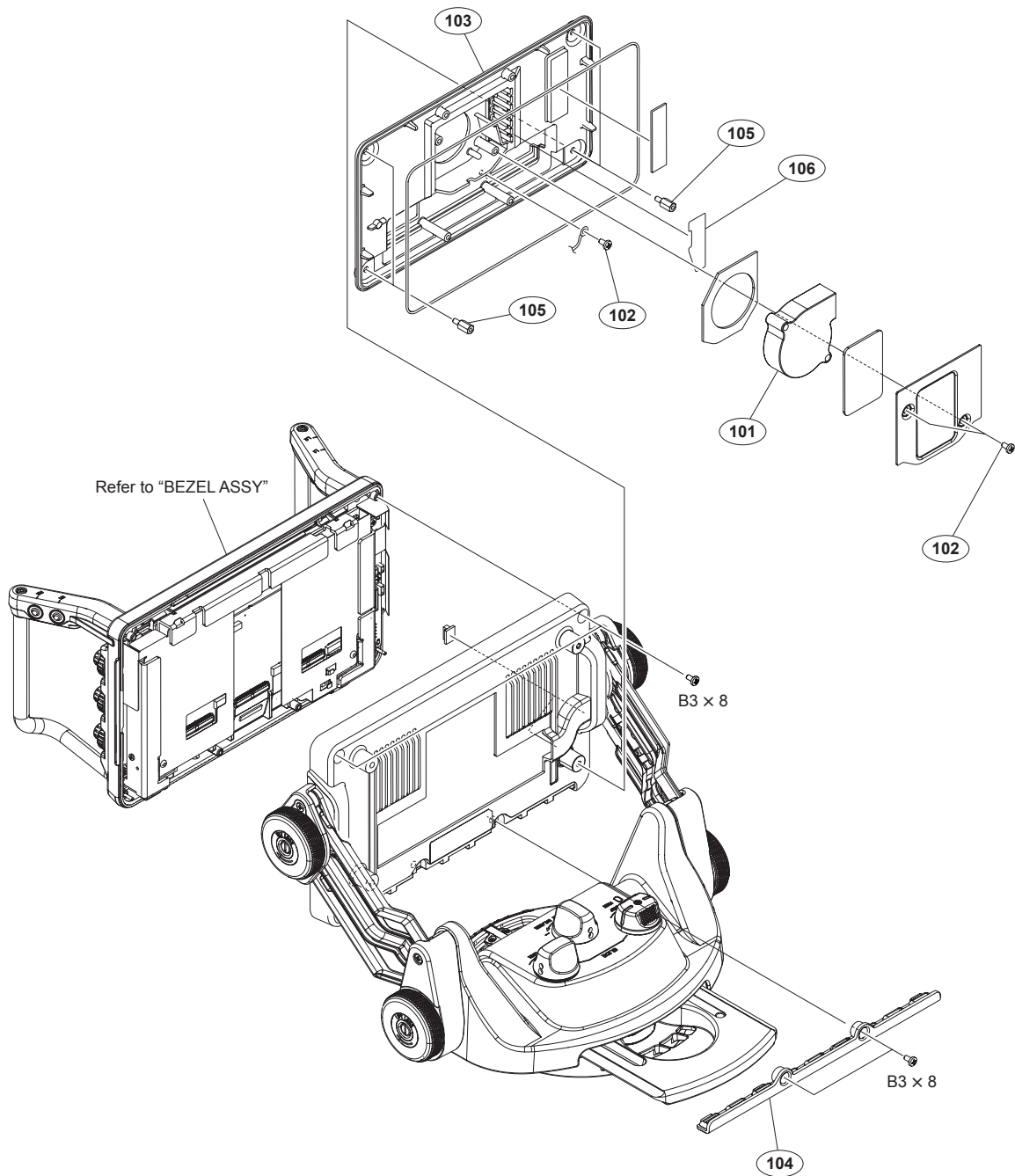
4. ハーネス

部品番号の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。

5-2. Exploded Views

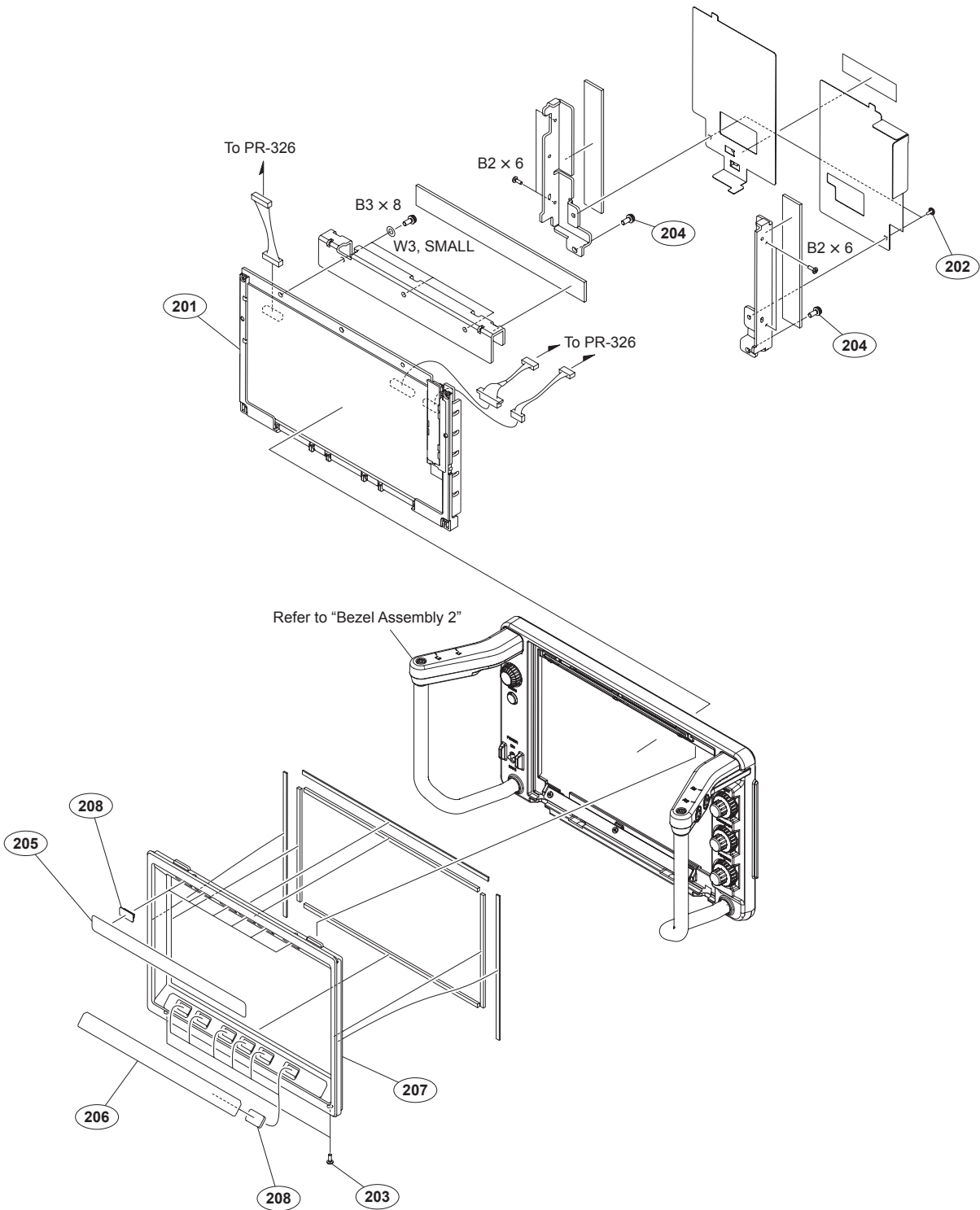


No.	Part No.	SP Description
1	A-1784-183-A	s MOUNTED CIRCUIT BOARD, PR-326
2	A-1784-185-A	s MOUNTED CIRCUIT BOARD, LE-367
3	4-150-565-01	s SCREW +B 3X5 NI (SCOTCH GRIP)
4	4-195-854-02	s COVER (C), REAR
5	4-195-862-02	s PAD, REAR
6	4-195-869-02	s ADHESIVE (TALLY)
7	4-195-870-02	s COVER, TALLY
8	4-262-515-02	s SHEET (FERRITE CORE)
	7-682-548-04	s SCREW +B 3X8
	7-682-903-19	s SCREW +PWH 3X6
	7-683-407-04	s BOLT, HEXAGON SOCKET 3X14

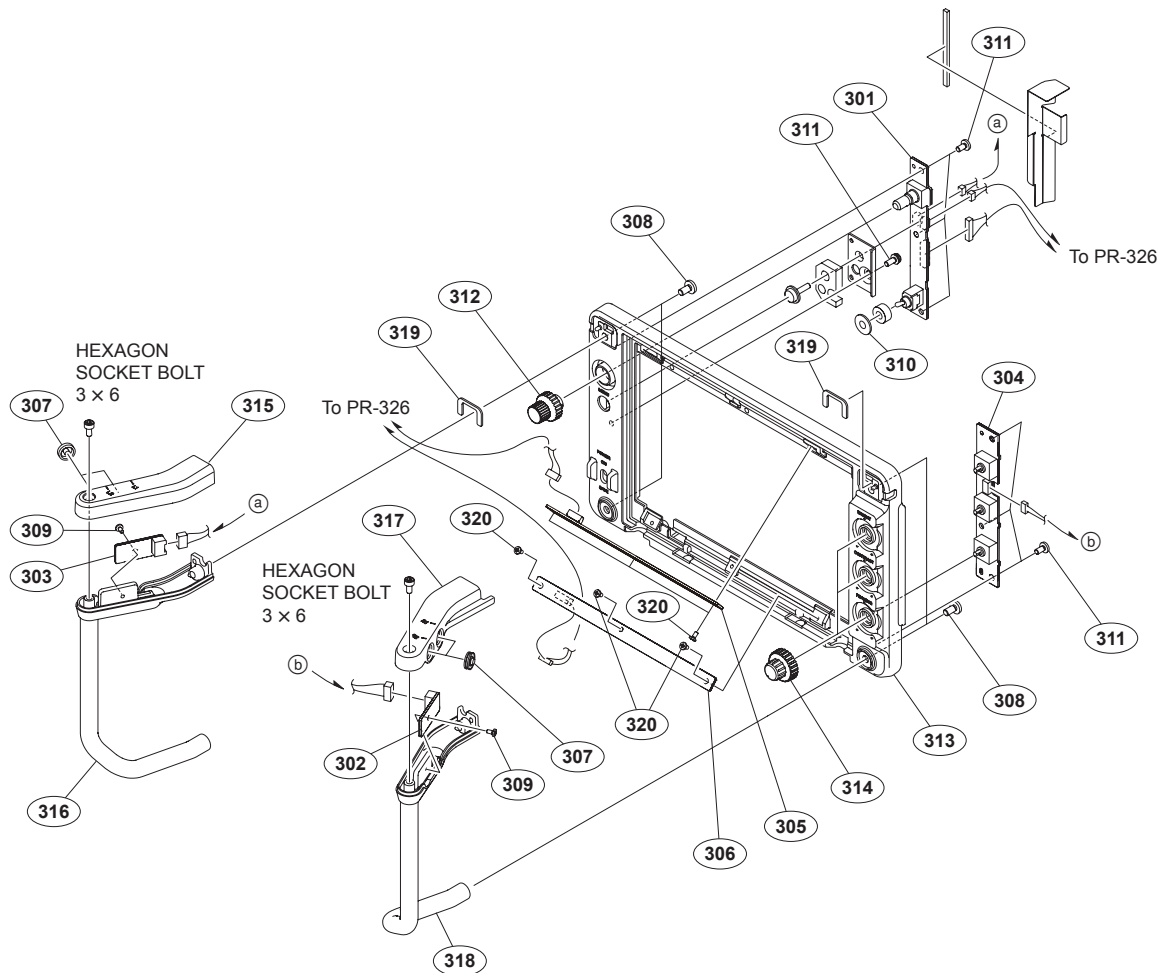


No.	Part No.	SP Description
101	1-787-656-11	s D.C. FAN
102	4-150-565-01	s SCREW +B 3X5 NI (SCOTCH GRIP)
103	4-195-858-02	s FRAME (B), REAR
104	4-195-861-01	s GUARD (LOWER), PANEL
105	4-198-669-01	s SUPPORT (L=9)
106	4-262-514-01	s SHEET (FAN), SEALING
	7-682-548-04	s SCREW +B 3X8

Bezel Assembly 1

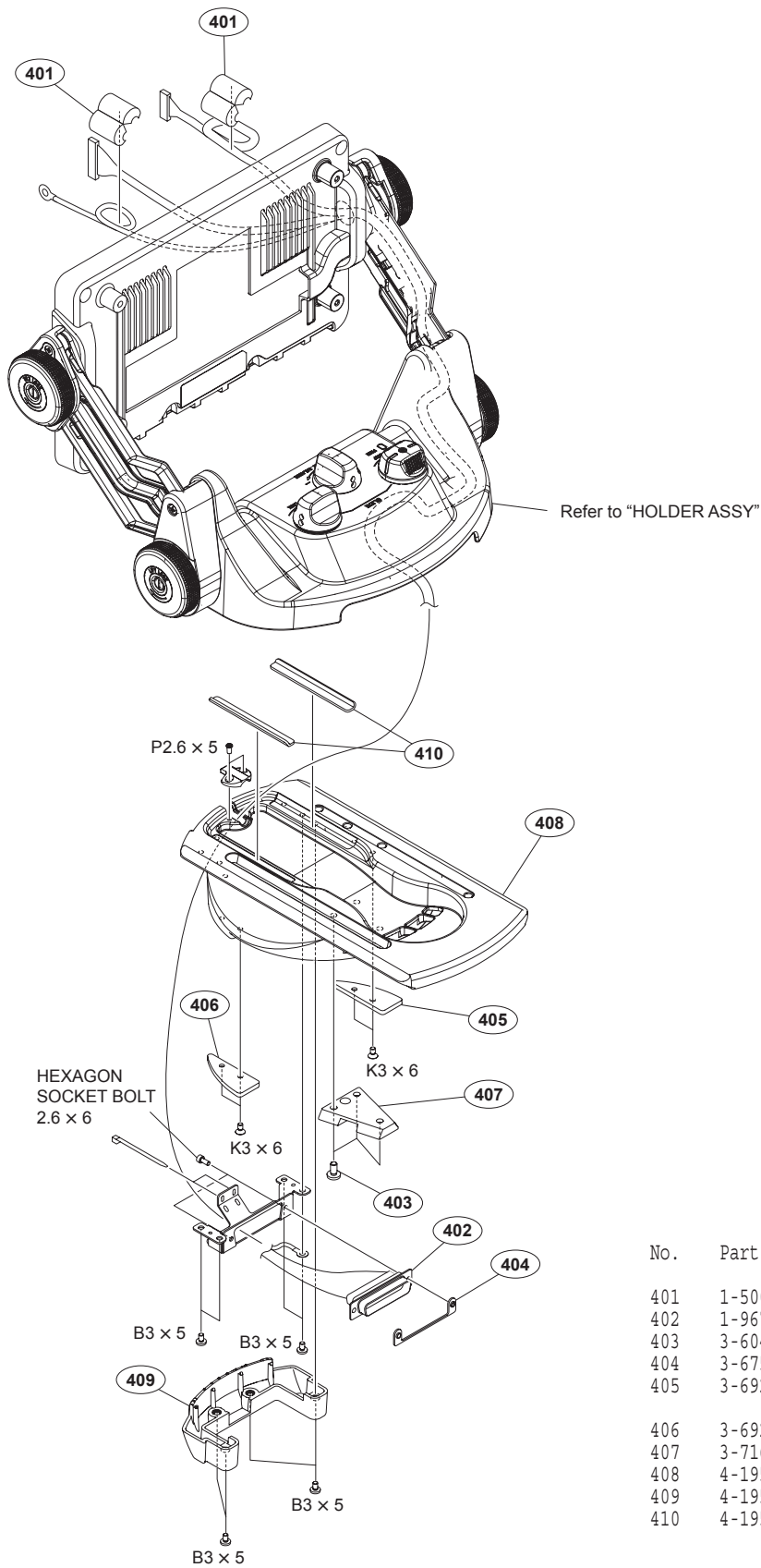


No.	Part No.	SP Description	No.	Part No.	SP Description
201	△ A-1796-939-A	s PANEL ASSY (HDVF), SERVICE	206	4-195-851-01	s SHEET (LOWER), TALLY
202	2-279-715-01	s RIVET, NYLON	207	4-195-853-02	s MASK, FRONT
203	3-729-076-11	s SCREW (+B) (2X4)	208	4-195-865-01	s GUIDE, LIGHT
204	4-150-565-01	s SCREW +B 3X5 NI (SCOTCH GRIP)			
205	4-196-225-01	s SHEET (UPPER) S, TALLY (EL70)			
		(for HDVF-EL70)			
	4-195-839-01	s SHEET (UPPER) P, TALLY (EL75)			
		(for HDVF-EL75)			
				7-621-772-38	s SCREW +B 2X6
				7-682-548-04	s SCREW +B 3X8
				7-688-003-01	s W 3, SMALL

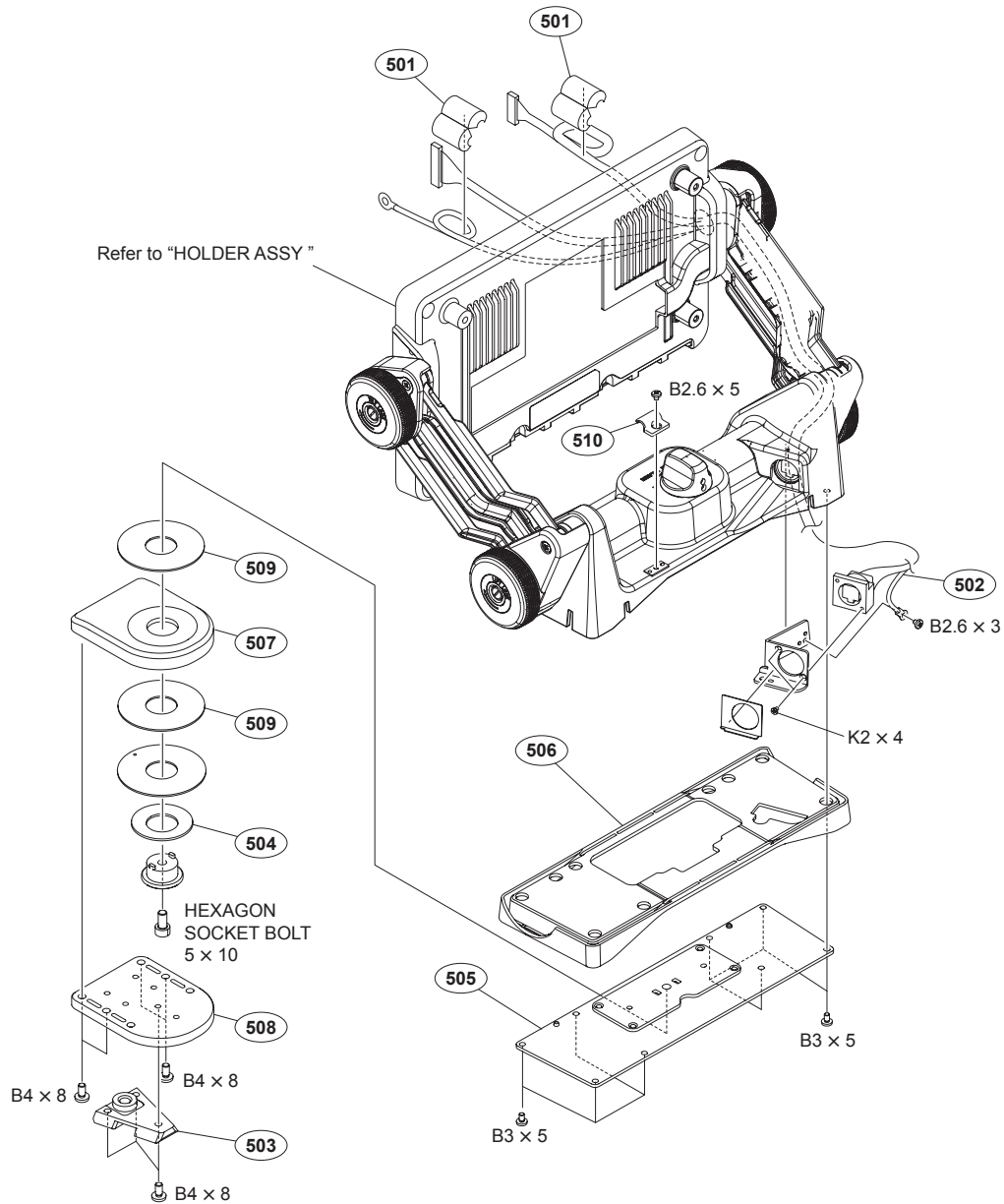


No.	Part No.	SP Description
301	A-1784-175-A	s MOUNTED CIRCUIT BOARD, SW-1494
302	A-1784-176-A	s MOUNTED CIRCUIT BOARD, SW-1495
303	A-1784-177-A	s MOUNTED CIRCUIT BOARD, SW-1496
304	A-1784-178-A	s MOUNTED CIRCUIT BOARD, VR-340
305	A-1784-186-A	s MOUNTED CIRCUIT BOARD, LE-368
306	A-1784-187-A	s MOUNTED CIRCUIT BOARD, LE-369
307	3-676-244-03	s COVER, SWITCH
308	3-685-694-02	s NYLOCK +PSW M4
309	3-729-076-11	s SCREW (+B) (2X4)
310	3-869-883-01	s RUBER,DROP PROTECTION
311	4-150-565-01	s SCREW +B 3X5 NI (SCOTCH GRIP)
312	4-183-519-01	s KNOB(B),RE
313	4-195-852-02	s BEZEL
314	4-195-859-02	s KNOB, VOLUME
315	4-195-863-01	s COVER (LEFT), HANDLE
316	4-195-864-02	s BASE (LEFT), HANDLE
317	4-195-867-01	s COVER (RIGHT), HANDLE
318	4-195-868-02	s BASE (RIGHT), HANDLE
319	4-196-282-01	s SHEET(HANDLE), SEALING
320	3-729-076-11	s NYLOCK (+B) (2X4)
	7-683-403-04	s BOLT,HEXAGON SOCKET 3X6

VF Holder Unit (S) (HDVF-EL70)



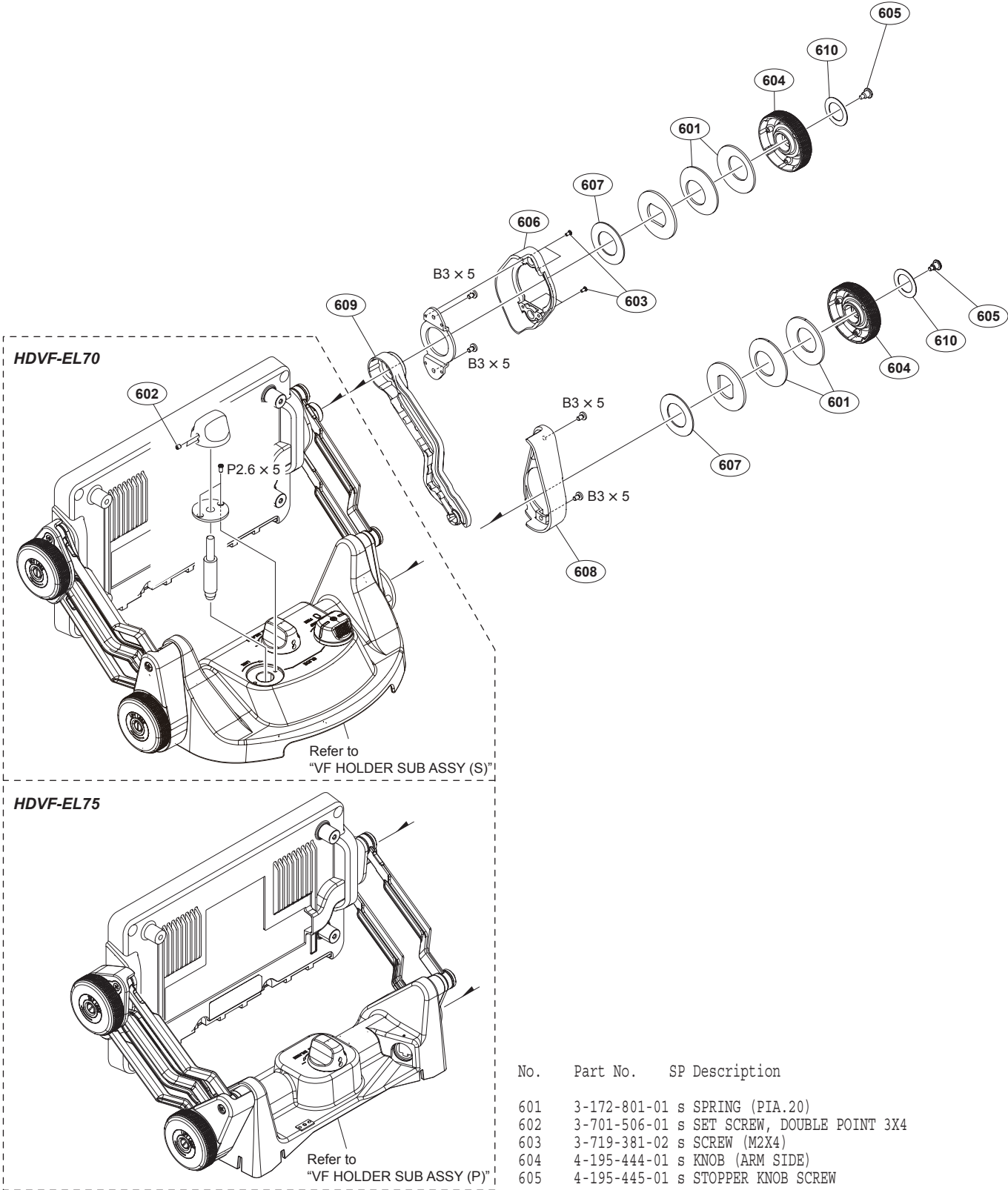
No.	Part No.	SP Description
401	1-500-249-11	s BEAD, FERRITE (CASE)
402	1-967-456-11	s HARNESS, SUB (VF CONNECTION1)
403	3-604-479-02	s ALOCK +B4X8
404	3-675-929-02	s NUT (50P), PLATE
405	3-692-333-01	o PLATE (LEFT)
406	3-692-334-01	o PLATE (RIGHT)
407	3-716-391-02	o WEDGE, MOUNTING
408	4-195-344-01	s V-SHOE BASE (A)
409	4-195-345-01	s V-SHOE BASE COVER (S)
410	4-195-347-01	s CARRY CUSHION
	7-627-556-58	s SCREW +P 2.6X5
	7-682-247-04	s SCREW +K 3X6
	7-682-546-09	s SCREW +B 3X5
	7-683-412-05	s BOLT,HEXAGON SOCKET 2.6X6



No.	Part No.	SP Description
501	1-500-249-11	s BEAD, FERRITE (CASE)
502	1-967-457-11	s HARNESS, SUB (VF CONNECTION2)
503	3-854-770-02	s WEDGE (D), MOUNTING
504	4-027-627-01	o SPRING (DIA. 18)
505	4-195-518-01	s VF HOLDER BASE CONER (P)
506	4-195-519-01	s BASE GUARD (P)
507	4-195-522-01	s BASE (TOP), PAN
508	4-195-523-02	s BASE (BOTTOM), PAN
509	4-195-525-02	s SHEET, PAN
510	4-197-161-01	s HOLDER, CABLE

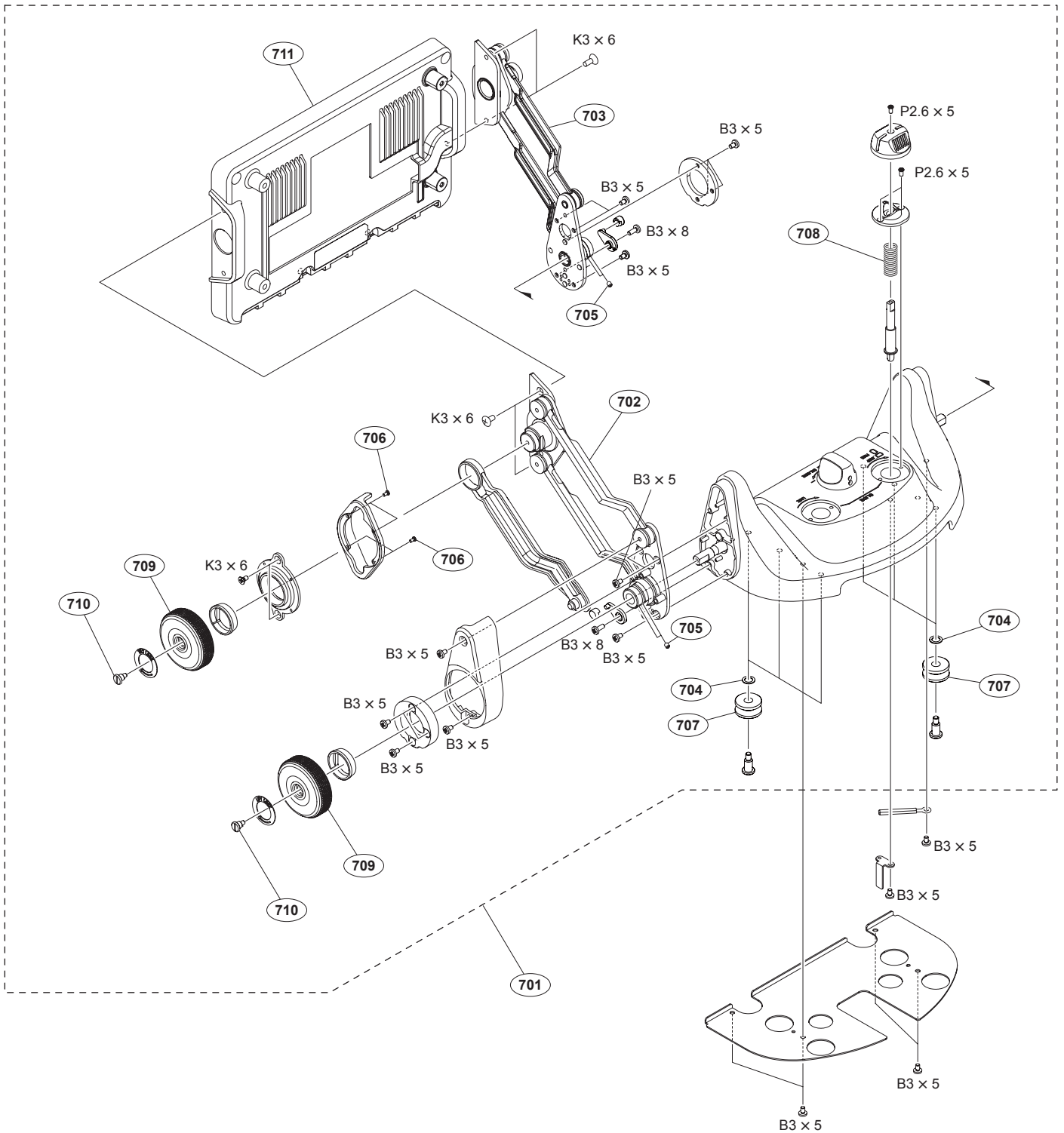
No.	Part No.	SP Description
	7-621-591-00	s SCREW +K 2X4
	7-621-775-08	s SCREW +B 2.6X3
	7-621-775-20	s SCREW +B 2.6X5
	7-682-546-09	s SCREW +B 3X5
	7-682-561-04	s SCREW +B 4X8
	7-683-435-04	s BOLT, HEXAGON SOCKET 5X10

Holder Assembly



No.	Part No.	SP Description
601	3-172-801-01	s SPRING (PIA.20)
602	3-701-506-01	s SET SCREW, DOUBLE POINT 3X4
603	3-719-381-02	s SCREW (M2X4)
604	4-195-444-01	s KNOB (ARM SIDE)
605	4-195-445-01	s STOPPER KNOB SCREW
606	4-195-446-01	s TILT BASE COVER (L)
607	4-195-448-02	s FRICTION SHEET (35X20X1)
608	4-195-450-02	s LIFT BASE COVER (L)
609	4-195-451-01	s LIFT ARM COVER (L)
610	4-195-452-01	s NAME PLATE (+- ARROW)

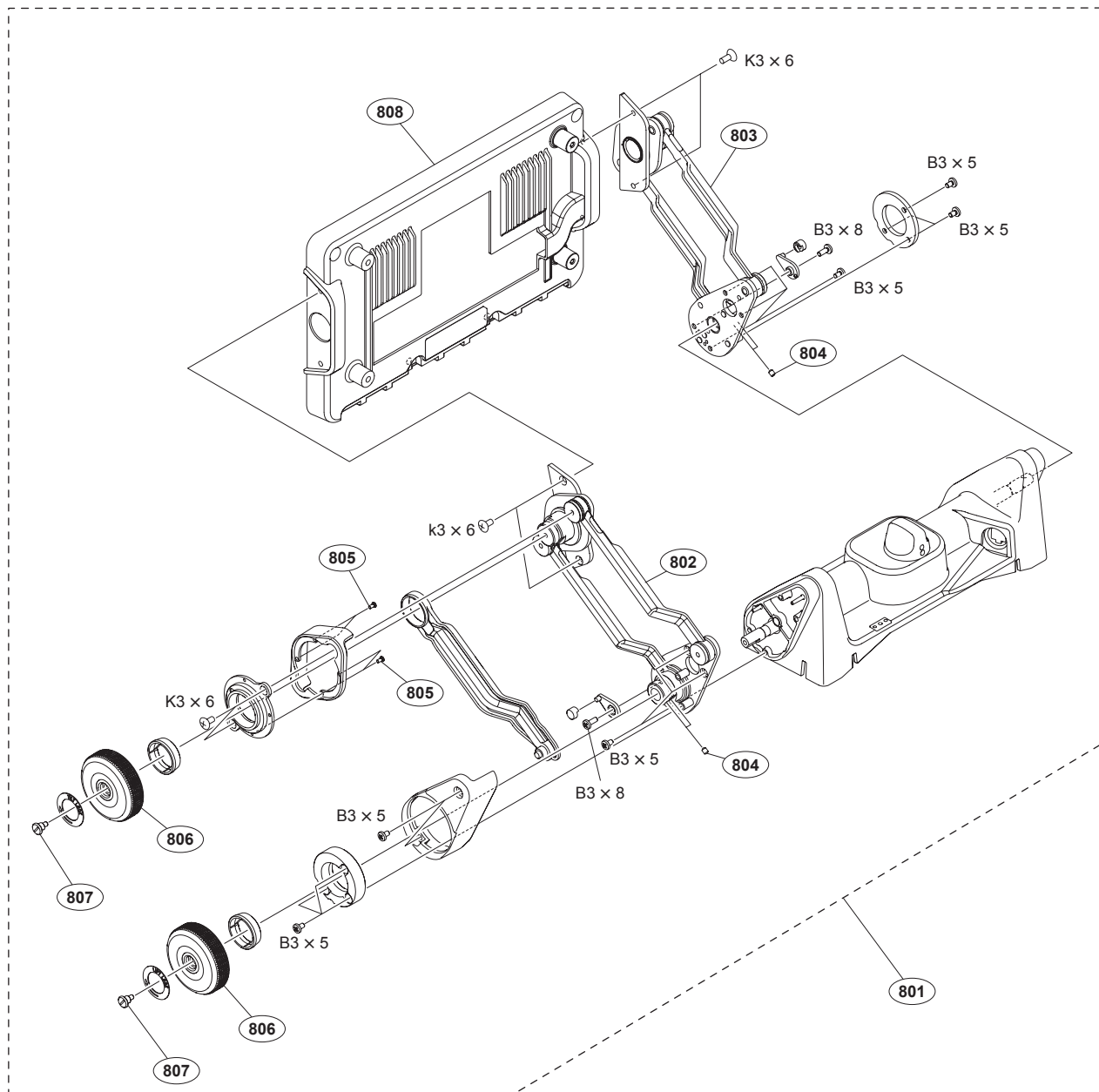
7-627-556-58 s SCREW +P 2.6X5
7-682-546-09 s SCREW +B 3X5



No.	Part No.	SP Description
701	A-1793-284-A	s VF HOLDER SUB ASSY (S)
702	X-2548-740-2	s ARM(R) SUB ASSY
703	X-2560-539-1	s ARM(LS) SUB ASSY
704	3-701-444-21	s WASHER, 6
705	3-701-506-01	s SET SCREW, DOUBLE POINT 3X4
706	3-719-381-02	s SCREW (M2X4)
707	4-195-359-01	s GUIDE ROLLER (M)
708	4-195-365-01	s CLICK SPRING
709	4-195-444-01	s KNOB (ARM SIDE)
710	4-195-445-01	s STOPPER KNOB SCREW

No.	Part No.	SP Description
711	4-195-835-02	s COVER, REAR
	7-627-556-58	s SCREW +P 2.6X5
	7-682-247-09	s SCREW +K 3X6
	7-682-546-09	s SCREW +B 3X5
	7-682-548-09	s SCREW +B 3X8

VF Holder Sub Assembly (P) (HDVF-EL75)



No.	Part No.	SP Description
801	A-1793-282-A	s VF HOLDER SUB ASSY (P)
802	X-2548-740-2	s ARM(R) SUB ASSY
803	X-2548-741-3	s ARM(L) SUB ASSY
804	3-701-506-01	s SET SCREW, DOUBLE POINT 3X4
805	3-719-381-02	s SCREW (M2X4)
806	4-195-444-01	s KNOB (ARM SIDE)
807	4-195-445-01	s STOPPER KNOB SCREW
808	4-195-835-02	s COVER, REAR

7-682-247-09	s SCREW +K 3X6
7-682-546-09	s SCREW +B 3X5
7-682-548-09	s SCREW +B 3X8

5-3. Electrical Parts List

LE-367 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1784-185-A	s MOUNTED CIRCUIT BOARD, LE-367
C1	1-114-334-11	s CAP, CERAMIC 10MF X7R 3225
C2	1-114-334-11	s CAP, CERAMIC 10MF X7R 3225
C3	1-114-334-11	s CAP, CERAMIC 10MF X7R 3225
C4	1-100-909-11	s CAP, CERAMIC 10MF X6S 2012
CN1	1-785-912-21	o CONNECTOR, BOARD TO BOARD 20P
D1	6-500-621-01	s DIODE SML-012UTT86
D2	6-500-621-01	s DIODE SML-012UTT86
D3	6-500-621-01	s DIODE SML-012UTT86
D4	6-500-621-01	s DIODE SML-012UTT86
D5	6-500-621-01	s DIODE SML-012UTT86
D6	6-500-621-01	s DIODE SML-012UTT86
D7	6-500-621-01	s DIODE SML-012UTT86
D8	6-500-621-01	s DIODE SML-012UTT86
D9	6-500-621-01	s DIODE SML-012UTT86
D10	6-500-621-01	s DIODE SML-012UTT86
D11	6-500-621-01	s DIODE SML-012UTT86
D12	6-500-621-01	s DIODE SML-012UTT86
D13	6-500-621-01	s DIODE SML-012UTT86
D14	6-500-621-01	s DIODE SML-012UTT86
D15	6-500-621-01	s DIODE SML-012UTT86
D16	6-500-621-01	s DIODE SML-012UTT86
E1	1-694-592-21	o TERMINAL
E2	1-694-592-21	o TERMINAL
E3	1-694-592-21	o TERMINAL
Q1	6-550-632-01	s TRANSISTOR 2SC4672-T100-Q
Q2	6-550-632-01	s TRANSISTOR 2SC4672-T100-Q
Q3	6-550-632-01	s TRANSISTOR 2SC4672-T100-Q
Q4	6-550-632-01	s TRANSISTOR 2SC4672-T100-Q
Q5	8-729-928-25	s TRANSISTOR 2SA1774TL-QR
Q6	8-729-928-82	s TRANSISTOR DTC144EE-TL
Q7	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)
R5	1-208-891-81	s RES, CHIP 1.5K (1005)
R6	1-208-911-81	s RES, CHIP 10K (1005)
R7	1-208-891-81	s RES, CHIP 1.5K (1005)
R8	1-208-895-81	s RES, CHIP 2.2K (1005)
R9	1-208-911-81	s RES, CHIP 10K (1005)
R10	1-218-602-91	s RES, METAL FILM (CHIP) 1
R11	1-208-911-81	s RES, CHIP 10K (1005)

LE-368 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1784-186-A	s MOUNTED CIRCUIT BOARD, LE-368
C1	1-114-331-11	s CAP, CERAMIC 4.7MF X7R 2012
C2	1-114-331-11	s CAP, CERAMIC 4.7MF X7R 2012
C3	1-114-331-11	s CAP, CERAMIC 4.7MF X7R 2012
C4	1-114-331-11	s CAP, CERAMIC 4.7MF X7R 2012
C5	1-114-331-11	s CAP, CERAMIC 4.7MF X7R 2012
C6	1-114-331-11	s CAP, CERAMIC 4.7MF X7R 2012
CN1	1-779-806-21	s CONNECTOR 8P
D1	6-501-436-01	s DIODE SML412BC6TT86
D2	6-502-195-01	s DI SML-D12D8WT86SQ
D3	6-502-195-01	s DI SML-D12D8WT86SQ
D4	6-502-195-01	s DI SML-D12D8WT86SQ
D5	8-719-077-09	s DIODE CL-196HR-CD-T
D6	8-719-077-09	s DIODE CL-196HR-CD-T
D7	8-719-077-09	s DIODE CL-196HR-CD-T
D8	6-501-358-01	s DIODE CL-197HG5-CD-T
D9	6-501-358-01	s DIODE CL-197HG5-CD-T
D10	6-501-358-01	s DIODE CL-197HG5-CD-T
D11	8-719-077-09	s DIODE CL-196HR-CD-T
D12	8-719-077-09	s DIODE CL-196HR-CD-T
D13	8-719-077-09	s DIODE CL-196HR-CD-T
D14	8-719-077-09	s DIODE CL-196HR-CD-T
D15	8-719-077-09	s DIODE CL-196HR-CD-T
D16	8-719-077-09	s DIODE CL-196HR-CD-T
D17	6-502-195-01	s DI SML-D12D8WT86SQ
D18	6-502-195-01	s DI SML-D12D8WT86SQ
D20	8-719-069-55	s DI UDZSUSTE-175.6B
D21	8-719-069-55	s DI UDZSUSTE-175.6B
D22	8-719-069-55	s DI UDZSUSTE-175.6B
D23	8-719-069-55	s DI UDZSUSTE-175.6B
D24	8-719-069-55	s DI UDZSUSTE-175.6B
D25	8-719-069-55	s DI UDZSUSTE-175.6B

LE-369 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1784-187-A	s MOUNTED CIRCUIT BOARD, LE-369
C1	1-114-331-11	s CAP, CERAMIC 4.7MF X7R 2012
C2	1-114-331-11	s CAP, CERAMIC 4.7MF X7R 2012
C3	1-114-331-11	s CAP, CERAMIC 4.7MF X7R 2012
C4	1-114-331-11	s CAP, CERAMIC 4.7MF X7R 2012
C5	1-114-331-11	s CAP, CERAMIC 4.7MF X7R 2012
CN1	1-784-210-21	s CONNECTOR 7P
D1	6-502-195-01	s DI SML-D12D8WT86SQ
D2	6-502-195-01	s DI SML-D12D8WT86SQ
D3	6-502-195-01	s DI SML-D12D8WT86SQ
D4	6-502-195-01	s DI SML-D12D8WT86SQ
D5	8-719-077-09	s DIODE CL-196HR-CD-T
D6	8-719-077-09	s DIODE CL-196HR-CD-T
D7	8-719-077-09	s DIODE CL-196HR-CD-T
D8	6-501-358-01	s DIODE CL-197HG5-CD-T
D9	6-501-358-01	s DIODE CL-197HG5-CD-T
D10	6-501-358-01	s DIODE CL-197HG5-CD-T
D11	8-719-077-09	s DIODE CL-196HR-CD-T
D12	8-719-077-09	s DIODE CL-196HR-CD-T
D13	8-719-077-09	s DIODE CL-196HR-CD-T
D14	6-502-196-01	s DI SML-D12Y8WT86SP
D15	6-502-196-01	s DI SML-D12Y8WT86SP
D16	6-502-196-01	s DI SML-D12Y8WT86SP
D20	8-719-069-55	s DI UDZSUSTE-175.6B
D21	8-719-069-55	s DI UDZSUSTE-175.6B
D22	8-719-069-55	s DI UDZSUSTE-175.6B
D23	8-719-069-55	s DI UDZSUSTE-175.6B
D24	8-719-069-55	s DI UDZSUSTE-175.6B

PR-326 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1784-183-A	s MOUNTED CIRCUIT BOARD, PR-326
C2	1-100-916-11	s CAP, CERAMIC 0.1MF X7R 1005
C3	1-100-916-11	s CAP, CERAMIC 0.1MF X7R 1005
C4	1-100-916-11	s CAP, CERAMIC 0.1MF X7R 1005
C5	1-100-916-11	s CAP, CERAMIC 0.1MF X7R 1005
C6	1-100-916-11	s CAP, CERAMIC 0.1MF X7R 1005
C7	1-100-916-11	s CAP, CERAMIC 0.1MF X7R 1005
C8	1-100-916-11	s CAP, CERAMIC 0.1MF X7R 1005
C9	1-112-691-11	s CAP, CERAMIC 22MF R 3225
C10	1-100-916-11	s CAP, CERAMIC 0.1MF X7R 1005
C11	1-100-916-11	s CAP, CERAMIC 0.1MF X7R 1005
C12	1-100-916-11	s CAP, CERAMIC 0.1MF X7R 1005
C13	1-112-691-11	s CAP, CERAMIC 22MF R 3225
C14	1-100-916-11	s CAP, CERAMIC 0.1MF X7R 1005
C15	1-100-916-11	s CAP, CERAMIC 0.1MF X7R 1005
C17	1-100-916-11	s CAP, CERAMIC 0.1MF X7R 1005
C18	1-100-916-11	s CAP, CERAMIC 0.1MF X7R 1005
C19	1-112-777-11	s CAP, CERAMIC 0.01MF X7R 1005
C20	1-100-916-11	s CAP, CERAMIC 0.1MF X7R 1005
C21	1-114-334-11	s CAP, CERAMIC 10MF X7R 3225
C22	1-112-691-11	s CAP, CERAMIC 22MF R 3225
C23	1-100-916-11	s CAP, CERAMIC 0.1MF X7R 1005
C24	1-100-916-11	s CAP, CERAMIC 0.1MF X7R 1005
C25	1-112-691-11	s CAP, CERAMIC 22MF R 3225
C26	1-112-691-11	s CAP, CERAMIC 22MF R 3225
C27	1-100-916-11	s CAP, CERAMIC 0.1MF X7R 1005
C28	1-100-916-11	s CAP, CERAMIC 0.1MF X7R 1005
C29	1-100-916-11	s CAP, CERAMIC 0.1MF X7R 1005
C30	1-112-691-11	s CAP, CERAMIC 22MF R 3225
C31	1-100-916-11	s CAP, CERAMIC 0.1MF X7R 1005
C32	1-100-916-11	s CAP, CERAMIC 0.1MF X7R 1005
C33	1-100-916-11	s CAP, CERAMIC 0.1MF X7R 1005
C101	1-100-916-11	s CAP, CERAMIC 0.1MF X7R 1005
C102	1-100-916-11	s CAP, CERAMIC 0.1MF X7R 1005
C103	1-100-916-11	s CAP, CERAMIC 0.1MF X7R 1005
C105	1-100-916-11	s CAP, CERAMIC 0.1MF X7R 1005
C106	1-164-848-81	s CAP, CHIP CERAMIC 8PF CH 1005
C107	1-100-909-11	s CAP, CERAMIC 10MF X6S 2012
C108	1-100-916-11	s CAP, CERAMIC 0.1MF X7R 1005
C109	1-112-691-11	s CAP, CERAMIC 22MF R 3225
C112	1-100-916-11	s CAP, CERAMIC 0.1MF X7R 1005
C115	1-112-691-11	s CAP, CERAMIC 22MF R 3225
C117	1-100-909-11	s CAP, CERAMIC 10MF X6S 2012
C131	1-100-916-11	s CAP, CERAMIC 0.1MF X7R 1005
C132	1-100-916-11	s CAP, CERAMIC 0.1MF X7R 1005
C133	1-100-916-11	s CAP, CERAMIC 0.1MF X7R 1005
C135	1-100-916-11	s CAP, CERAMIC 0.1MF X7R 1005
C136	1-164-848-81	s CAP, CHIP CERAMIC 8PF CH 1005
C137	1-100-909-11	s CAP, CERAMIC 10MF X6S 2012
C138	1-112-691-11	s CAP, CERAMIC 22MF R 3225
C141	1-100-916-11	s CAP, CERAMIC 0.1MF X7R 1005
C145	1-112-691-11	s CAP, CERAMIC 22MF R 3225
C161	1-100-916-11	s CAP, CERAMIC 0.1MF X7R 1005
C162	1-100-916-11	s CAP, CERAMIC 0.1MF X7R 1005
C163	1-100-916-11	s CAP, CERAMIC 0.1MF X7R 1005
C165	1-100-916-11	s CAP, CERAMIC 0.1MF X7R 1005
C166	1-164-848-81	s CAP, CHIP CERAMIC 8PF CH 1005
C167	1-100-909-11	s CAP, CERAMIC 10MF X6S 2012

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Ref. No. or Q'ty	Part No.	SP	Description
C630	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C631	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C632	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C633	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C634	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C635	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C636	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C637	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C638	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C639	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C670	1-114-331-11	s	CAP, CERAMIC 4.7MF X7R 2012
C671	1-114-331-11	s	CAP, CERAMIC 4.7MF X7R 2012
C672	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C673	1-116-099-11	s	CAP, ELECT 100MF 105
C674	1-112-691-11	s	CAP, CERAMIC 22MF R 3225
C675	1-112-691-11	s	CAP, CERAMIC 22MF R 3225
C676	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C677	1-116-100-11	s	CAP, ELECT 220MF 105
C678	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C680	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C681	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C682	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C683	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C684	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C685	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C686	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C687	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C688	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C689	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C690	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C691	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C692	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C693	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C700	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C701	1-112-691-11	s	CAP, CERAMIC 22MF R 3225
C702	1-112-691-11	s	CAP, CERAMIC 22MF R 3225
C703	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C704	1-164-843-81	s	CAP, CHIP CERAMIC 3PF CJ 1005
C705	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C706	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C707	1-164-874-81	s	CAP,CHIP CERAMIC 100PF CH 1005
C708	1-164-874-81	s	CAP,CHIP CERAMIC 100PF CH 1005
C709	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C800	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C801	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C802	1-114-130-11	s	CAP, CERAMIC 1MF X6S 1005
C803	1-114-130-11	s	CAP, CERAMIC 1MF X6S 1005
C804	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C805	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C806	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C807	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C808	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C809	1-116-346-11	s	CAP, ELECT 47MF 105
C810	1-116-346-11	s	CAP, ELECT 47MF 105
C811	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C812	1-114-214-81	s	CAP,CHIP CERAMIC470PF CH1005
C813	1-114-130-11	s	CAP, CERAMIC 1MF X6S 1005
C814	1-112-777-11	s	CAP, CERAMIC 0.01MF X7R 1005
C815	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005

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Ref. No. or Q'ty	Part No.	SP Description
C816	1-100-916-11 s	CAP, CERAMIC 0.1MF X7R 1005
C817	1-100-916-11 s	CAP, CERAMIC 0.1MF X7R 1005
C818	1-100-916-11 s	CAP, CERAMIC 0.1MF X7R 1005
C819	1-100-916-11 s	CAP, CERAMIC 0.1MF X7R 1005
C820	1-100-916-11 s	CAP, CERAMIC 0.1MF X7R 1005
C821	1-100-916-11 s	CAP, CERAMIC 0.1MF X7R 1005
C823	1-100-916-11 s	CAP, CERAMIC 0.1MF X7R 1005
C824	1-112-777-11 s	CAP, CERAMIC 0.01MF X7R 1005
C825	1-112-777-11 s	CAP, CERAMIC 0.01MF X7R 1005
C826	1-100-916-11 s	CAP, CERAMIC 0.1MF X7R 1005
C827	1-100-916-11 s	CAP, CERAMIC 0.1MF X7R 1005
C828	1-100-916-11 s	CAP, CERAMIC 0.1MF X7R 1005
C829	1-100-916-11 s	CAP, CERAMIC 0.1MF X7R 1005
C830	1-112-691-11 s	CAP, CERAMIC 22MF R 3225
C831	1-100-916-11 s	CAP, CERAMIC 0.1MF X7R 1005
C832	1-114-130-11 s	CAP, CERAMIC 1MF X6S 1005
C833	1-114-130-11 s	CAP, CERAMIC 1MF X6S 1005
C834	1-100-916-11 s	CAP, CERAMIC 0.1MF X7R 1005
C835	1-114-130-11 s	CAP, CERAMIC 1MF X6S 1005
C837	1-100-916-11 s	CAP, CERAMIC 0.1MF X7R 1005
C838	1-100-916-11 s	CAP, CERAMIC 0.1MF X7R 1005
C839	1-100-916-11 s	CAP, CERAMIC 0.1MF X7R 1005
C840	1-100-916-11 s	CAP, CERAMIC 0.1MF X7R 1005
C841	1-100-916-11 s	CAP, CERAMIC 0.1MF X7R 1005
C842	1-100-916-11 s	CAP, CERAMIC 0.1MF X7R 1005
C843	1-100-916-11 s	CAP, CERAMIC 0.1MF X7R 1005
C844	1-116-346-11 s	CAP, ELECT 47MF 105
C845	1-100-916-11 s	CAP, CERAMIC 0.1MF X7R 1005
C846	1-112-691-11 s	CAP, CERAMIC 22MF R 3225
C847	1-100-916-11 s	CAP, CERAMIC 0.1MF X7R 1005
C848	1-100-916-11 s	CAP, CERAMIC 0.1MF X7R 1005
C849	1-100-916-11 s	CAP, CERAMIC 0.1MF X7R 1005
C850	1-100-916-11 s	CAP, CERAMIC 0.1MF X7R 1005
C851	1-100-916-11 s	CAP, CERAMIC 0.1MF X7R 1005
C900	1-100-916-11 s	CAP, CERAMIC 0.1MF X7R 1005
C901	1-100-916-11 s	CAP, CERAMIC 0.1MF X7R 1005
C902	1-112-692-81 s	CAP,CHIP CERAMIC1000PF CH 1005
C903	1-100-916-11 s	CAP, CERAMIC 0.1MF X7R 1005
C904	1-100-916-11 s	CAP, CERAMIC 0.1MF X7R 1005
C906	1-100-916-11 s	CAP, CERAMIC 0.1MF X7R 1005
C907	1-100-916-11 s	CAP, CERAMIC 0.1MF X7R 1005
C908	1-100-916-11 s	CAP, CERAMIC 0.1MF X7R 1005
C1000	1-100-912-11 s	CAP, CERAMIC 1.0MF X7R (2012)
C1002	1-100-597-91 s	CAP, CHIP CERAMIC 0.1MF B 1608
C1003	1-114-130-11 s	CAP, CERAMIC 1MF X6S 1005
C1004	1-100-912-11 s	CAP, CERAMIC 1.0MF X7R (2012)
C1007	1-114-331-11 s	CAP, CERAMIC 4.7MF X7R 2012
C1008	1-112-777-11 s	CAP, CERAMIC 0.01MF X7R 1005
C1009	1-112-777-11 s	CAP, CERAMIC 0.01MF X7R 1005
C1010	1-164-874-81 s	CAP,CHIP CERAMIC 100PF CH 1005
C1011	1-164-874-81 s	CAP,CHIP CERAMIC 100PF CH 1005
C1012	1-100-916-11 s	CAP, CERAMIC 0.1MF X7R 1005
C1013	1-114-130-11 s	CAP, CERAMIC 1MF X6S 1005
C1014	1-114-130-11 s	CAP, CERAMIC 1MF X6S 1005
C1015	1-100-916-11 s	CAP, CERAMIC 0.1MF X7R 1005
C1016	1-100-916-11 s	CAP, CERAMIC 0.1MF X7R 1005
C1017	1-100-916-11 s	CAP, CERAMIC 0.1MF X7R 1005
C1018	1-100-916-11 s	CAP, CERAMIC 0.1MF X7R 1005
C1019	1-100-916-11 s	CAP, CERAMIC 0.1MF X7R 1005

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Ref. No. or Q'ty	Part No.	SP Description
C1020	1-100-916-11 s	CAP, CERAMIC 0.1MF X7R 1005
C1021	1-100-916-11 s	CAP, CERAMIC 0.1MF X7R 1005
C1022	1-100-916-11 s	CAP, CERAMIC 0.1MF X7R 1005
C1023	1-114-130-11 s	CAP, CERAMIC 1MF X6S 1005
C1024	1-100-597-91 s	CAP, CHIP CERAMIC 0.1MF B 1608
C1100	1-100-916-11 s	CAP, CERAMIC 0.1MF X7R 1005
C1101	1-112-777-11 s	CAP, CERAMIC 0.01MF X7R 1005
C1102	1-164-858-81 s	CAP, CHIP CERAMIC 22PF CH 1005
C1103	1-164-858-81 s	CAP, CHIP CERAMIC 22PF CH 1005
C1104	1-100-916-11 s	CAP, CERAMIC 0.1MF X7R 1005
C1105	1-100-916-11 s	CAP, CERAMIC 0.1MF X7R 1005
C1106	1-112-777-11 s	CAP, CERAMIC 0.01MF X7R 1005
C1107	1-112-778-11 s	CAP, CERAMIC 0.022MF X7R 1005
C1108	1-112-778-11 s	CAP, CERAMIC 0.022MF X7R 1005
C1109	1-162-969-91 s	CAP, CERAMIC 6800PF B 1608
C1110	1-162-969-91 s	CAP, CERAMIC 6800PF B 1608
C1111	1-100-909-11 s	CAP, CERAMIC 10MF X6S 2012
C1112	1-100-909-11 s	CAP, CERAMIC 10MF X6S 2012
C1113	1-100-909-11 s	CAP, CERAMIC 10MF X6S 2012
C1114	1-114-334-11 s	CAP, CERAMIC 10MF X7R 3225
C1115	1-114-334-11 s	CAP, CERAMIC 10MF X7R 3225
C1116	1-100-597-91 s	CAP, CHIP CERAMIC 0.1MF B 1608
C1117	1-100-597-91 s	CAP, CHIP CERAMIC 0.1MF B 1608
C1118	1-116-118-11 s	CAP, ELECT 47MF 105
C1119	1-116-107-11 s	CAP, ELECT 220MF 105
C1120	1-116-107-11 s	CAP, ELECT 220MF 105
C1121	1-100-916-11 s	CAP, CERAMIC 0.1MF X7R 1005
C1122	1-112-691-11 s	CAP, CERAMIC 22MF R 3225
C1123	1-100-597-91 s	CAP, CHIP CERAMIC 0.1MF B 1608
C1124	1-100-916-11 s	CAP, CERAMIC 0.1MF X7R 1005
C1126	1-114-214-81 s	CAP,CHIP CERAMIC470PF CH1005
C1127	1-114-331-11 s	CAP, CERAMIC 4.7MF X7R 2012
C1128	1-112-067-11 s	CAP, CERAMIC 0.22MF X7R 1608
C1129	1-116-118-11 s	CAP, ELECT 47MF 105
C1130	1-116-116-11 s	CAP, ELECT 220MF 105
C1132	1-114-335-11 s	CAP, CERAMIC 22MF X7R 3225
C1133	1-114-335-11 s	CAP, CERAMIC 22MF X7R 3225
C1134	1-112-691-11 s	CAP, CERAMIC 22MF R 3225
C1135	1-100-916-11 s	CAP, CERAMIC 0.1MF X7R 1005
C1136	1-112-692-81 s	CAP,CHIP CERAMIC1000PF CH 1005
C1200	1-112-777-11 s	CAP, CERAMIC 0.01MF X7R 1005
C1201	1-164-858-81 s	CAP, CHIP CERAMIC 22PF CH 1005
C1202	1-164-858-81 s	CAP, CHIP CERAMIC 22PF CH 1005
C1203	1-100-916-11 s	CAP, CERAMIC 0.1MF X7R 1005
C1204	1-100-916-11 s	CAP, CERAMIC 0.1MF X7R 1005
C1205	1-112-777-11 s	CAP, CERAMIC 0.01MF X7R 1005
C1206	1-112-778-11 s	CAP, CERAMIC 0.022MF X7R 1005
C1207	1-112-778-11 s	CAP, CERAMIC 0.022MF X7R 1005
C1208	1-162-969-91 s	CAP, CERAMIC 6800PF B 1608
C1209	1-162-969-91 s	CAP, CERAMIC 6800PF B 1608
C1210	1-100-909-11 s	CAP, CERAMIC 10MF X6S 2012
C1211	1-100-909-11 s	CAP, CERAMIC 10MF X6S 2012
C1212	1-100-909-11 s	CAP, CERAMIC 10MF X6S 2012
C1213	1-114-334-11 s	CAP, CERAMIC 10MF X7R 3225
C1214	1-114-334-11 s	CAP, CERAMIC 10MF X7R 3225
C1215	1-100-597-91 s	CAP, CHIP CERAMIC 0.1MF B 1608
C1216	1-100-597-91 s	CAP, CHIP CERAMIC 0.1MF B 1608
C1217	1-116-118-11 s	CAP, ELECT 47MF 105
C1218	1-116-107-11 s	CAP, ELECT 220MF 105

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Ref. No. or Q'ty	Part No.	SP	Description
C1219	1-116-107-11	s	CAP, ELECT 220MF 105
C1220	1-100-909-11	s	CAP, CERAMIC 10MF X6S 2012
C1221	1-100-909-11	s	CAP, CERAMIC 10MF X6S 2012
C1222	1-100-909-11	s	CAP, CERAMIC 10MF X6S 2012
C1223	1-100-909-11	s	CAP, CERAMIC 10MF X6S 2012
C1224	1-112-777-11	s	CAP, CERAMIC 0.01MF X7R 1005
C1225	1-164-858-81	s	CAP, CHIP CERAMIC 22PF CH 1005
C1226	1-164-858-81	s	CAP, CHIP CERAMIC 22PF CH 1005
C1227	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C1228	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C1229	1-112-777-11	s	CAP, CERAMIC 0.01MF X7R 1005
C1230	1-112-778-11	s	CAP, CERAMIC 0.022MF X7R 1005
C1231	1-112-778-11	s	CAP, CERAMIC 0.022MF X7R 1005
C1232	1-162-969-91	s	CAP, CERAMIC 6800PF B 1608
C1233	1-162-969-91	s	CAP, CERAMIC 6800PF B 1608
C1234	1-100-909-11	s	CAP, CERAMIC 10MF X6S 2012
C1235	1-100-909-11	s	CAP, CERAMIC 10MF X6S 2012
C1236	1-100-909-11	s	CAP, CERAMIC 10MF X6S 2012
C1237	1-114-334-11	s	CAP, CERAMIC 10MF X7R 3225
C1238	1-114-334-11	s	CAP, CERAMIC 10MF X7R 3225
C1239	1-100-597-91	s	CAP, CHIP CERAMIC 0.1MF B 1608
C1240	1-100-597-91	s	CAP, CHIP CERAMIC 0.1MF B 1608
C1241	1-116-118-11	s	CAP, ELECT 47MF 105
C1242	1-116-107-11	s	CAP, ELECT 220MF 105
C1243	1-116-107-11	s	CAP, ELECT 220MF 105
C1244	1-100-909-11	s	CAP, CERAMIC 10MF X6S 2012
C1245	1-100-909-11	s	CAP, CERAMIC 10MF X6S 2012
C1246	1-100-909-11	s	CAP, CERAMIC 10MF X6S 2012
C1247	1-100-909-11	s	CAP, CERAMIC 10MF X6S 2012
C1248	1-100-909-11	s	CAP, CERAMIC 10MF X6S 2012
C1300	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C1301	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C1302	1-112-691-11	s	CAP, CERAMIC 22MF R 3225
C1303	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C1304	1-114-331-11	s	CAP, CERAMIC 4.7MF X7R 2012
C1305	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C1306	1-114-331-11	s	CAP, CERAMIC 4.7MF X7R 2012
C1307	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C1308	1-100-909-11	s	CAP, CERAMIC 10MF X6S 2012
C1309	1-100-909-11	s	CAP, CERAMIC 10MF X6S 2012
C1310	1-100-909-11	s	CAP, CERAMIC 10MF X6S 2012
C1311	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C1312	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C1313	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C1314	1-112-691-11	s	CAP, CERAMIC 22MF R 3225
C1315	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C1316	1-164-850-81	s	CAP, CHIP CERAMIC 10PF CH 1005
C1317	1-112-776-11	s	CAP, CERAMIC 4700PF X7R 1005
C1318	1-114-214-81	s	CAP, CHIP CERAMIC 470PF CH1005
C1319	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C1320	1-112-691-11	s	CAP, CERAMIC 22MF R 3225
C1321	1-116-099-11	s	CAP, ELECT 100MF 105
C1322	1-164-850-81	s	CAP, CHIP CERAMIC 10PF CH 1005
C1323	1-114-130-11	s	CAP, CERAMIC 1MF X6S 1005
C1324	1-112-691-11	s	CAP, CERAMIC 22MF R 3225
C1325	1-116-099-11	s	CAP, ELECT 100MF 105
C1327	1-164-850-81	s	CAP, CHIP CERAMIC 10PF CH 1005
C1328	1-112-776-11	s	CAP, CERAMIC 4700PF X7R 1005
C1329	1-114-214-81	s	CAP, CHIP CERAMIC 470PF CH1005

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Ref. No. or Q'ty	Part No.	SP	Description
C1330	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C1331	1-112-691-11	s	CAP, CERAMIC 22MF R 3225
C1332	1-116-099-11	s	CAP, ELECT 100MF 105
C1333	1-164-850-81	s	CAP, CHIP CERAMIC 10PF CH 1005
C1334	1-114-130-11	s	CAP, CERAMIC 1MF X6S 1005
C1335	1-112-691-11	s	CAP, CERAMIC 22MF R 3225
C1336	1-116-099-11	s	CAP, ELECT 100MF 105
C1338	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C1339	1-114-334-11	s	CAP, CERAMIC 10MF X7R 3225
C1340	1-114-334-11	s	CAP, CERAMIC 10MF X7R 3225
C1341	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C1342	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C1343	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C1344	1-100-916-11	s	CAP, CERAMIC 0.1MF X7R 1005
C1345	1-112-777-11	s	CAP, CERAMIC 0.01MF X7R 1005
C1346	1-164-882-81	s	CAP, CHIP CERAMIC 220PF CH 1005
C1347	1-112-778-11	s	CAP, CERAMIC 0.022MF X7R 1005
CN1	1-819-443-11	o	HEADER ASSEMBLY FOR PWB 15P
CN2	1-819-474-11	s	HEADER ASSEMBLY FOR PWB 6P
CN3	1-778-006-21	o	CONNECTOR, BOARD TO BOARD 20P
CN4	1-784-210-21	s	CONNECTOR 7P
CN5	1-779-806-21	s	CONNECTOR 8P
CN6	1-793-027-21	s	CONNECTOR 14P
CN7	1-785-125-21	s	CONNECTOR 6P
CN9	1-819-476-11	s	HEADER ASSEMBLY FOR PWB 8P
CN10	1-819-337-11	s	HEADER ASSEMBLY FOR PWB 10P
CN11	1-691-550-21	s	PIN, CONNECTOR (1.5MM) (SMD) 3P
CN12	1-784-254-21	s	CONNECTOR 10P
CN13	1-573-290-21	s	PIN, CONNECTOR (1.5MM) (SMD) 4P
D1	8-719-083-60	s	DI UDZSUSTE-174.7B
D2	8-719-083-60	s	DI UDZSUSTE-174.7B
D3	8-719-083-60	s	DI UDZSUSTE-174.7B
D4	8-719-083-60	s	DI UDZSUSTE-174.7B
D5	8-719-083-60	s	DI UDZSUSTE-174.7B
D300	8-719-083-57	s	DI UDZSUSTE-173.6B
D301	8-719-083-57	s	DI UDZSUSTE-173.6B
D302	8-719-083-57	s	DI UDZSUSTE-173.6B
D303	8-719-083-57	s	DI UDZSUSTE-173.6B
D304	8-719-083-57	s	DI UDZSUSTE-173.6B
D305	8-719-083-57	s	DI UDZSUSTE-173.6B
D306	8-719-083-57	s	DI UDZSUSTE-173.6B
D307	8-719-083-57	s	DI UDZSUSTE-173.6B
D308	8-719-069-28	s	DI 1SS400FJTE61
D309	8-719-069-28	s	DI 1SS400FJTE61
D400	6-502-196-01	s	DI SML-D12Y8WT86SP
D401	6-502-196-01	s	DI SML-D12Y8WT86SP
D402	6-502-196-01	s	DI SML-D12Y8WT86SP
D800	8-719-069-55	s	DI UDZSUSTE-175.6B
D801	8-719-069-55	s	DI UDZSUSTE-175.6B
D900	8-719-069-55	s	DI UDZSUSTE-175.6B
D901	8-719-069-55	s	DI UDZSUSTE-175.6B
D902	8-719-083-57	s	DI UDZSUSTE-173.6B
D903	8-719-083-57	s	DI UDZSUSTE-173.6B
D1000	8-719-069-28	s	DI 1SS400FJTE61
D1001	8-719-069-28	s	DI 1SS400FJTE61
D1002	8-719-069-28	s	DI 1SS400FJTE61
D1003	8-719-069-28	s	DI 1SS400FJTE61
D1004	8-719-069-28	s	DI 1SS400FJTE61

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Ref. No. or Q'ty	Part No.	SP Description
D1005	8-719-069-28	s DI 1SS400FJTE61
D1100	8-719-069-28	s DI 1SS400FJTE61
D1101	8-719-065-59	s DIODE MBR0530T1
D1102	8-719-065-59	s DIODE MBR0530T1
D1103	8-719-069-59	s DI UDZSUSTE-178.2B
D1104	8-719-065-59	s DIODE MBR0530T1
D1105	6-501-123-01	s DIODE RB160M-60TR
D1200	8-719-069-28	s DI 1SS400FJTE61
D1201	8-719-065-59	s DIODE MBR0530T1
D1202	8-719-065-59	s DIODE MBR0530T1
D1203	8-719-069-59	s DI UDZSUSTE-178.2B
D1204	8-719-069-28	s DI 1SS400FJTE61
D1205	8-719-065-59	s DIODE MBR0530T1
D1206	8-719-065-59	s DIODE MBR0530T1
D1207	8-719-069-59	s DI UDZSUSTE-178.2B
D1302	8-719-069-28	s DI 1SS400FJTE61
D1304	8-719-069-28	s DI 1SS400FJTE61
D1305	8-719-069-28	s DI 1SS400FJTE61
D1306	6-501-124-01	s DIODE RSX101VA-30TR
D1307	8-719-069-28	s DI 1SS400FJTE61
E1	1-535-757-21	s CHIP, CHECKER
E2	1-535-757-21	s CHIP, CHECKER
E250	1-535-757-21	s CHIP, CHECKER
E251	1-535-757-21	s CHIP, CHECKER
E400	1-694-592-21	o TERMINAL
E600	1-694-592-21	o TERMINAL
E800	1-535-757-21	s CHIP, CHECKER
E801	1-535-757-21	s CHIP, CHECKER
E1100	1-535-757-21	s CHIP, CHECKER
E1101	1-535-757-21	s CHIP, CHECKER
E1300	1-694-592-21	o TERMINAL
F1	△ 1-576-604-21	s FUSE (1A/72V)
F1000	△ 1-576-488-21	s FUSE (3.15A/72V)
F1100	△ 1-576-488-21	s FUSE (3.15A/72V)
F1101	△ 1-576-488-21	s FUSE (3.15A/72V)
F1300	△ 1-576-604-21	s FUSE (1A/72V)
FB1	1-414-864-21	s FERRITE, EMI (SMD) (1608)
FB2	1-414-864-21	s FERRITE, EMI (SMD) (1608)
FB3	1-414-864-21	s FERRITE, EMI (SMD) (1608)
FB4	1-414-864-21	s FERRITE, EMI (SMD) (1608)
FB305	1-414-864-21	s FERRITE, EMI (SMD) (1608)
FB306	1-414-864-21	s FERRITE, EMI (SMD) (1608)
FB307	1-414-864-21	s FERRITE, EMI (SMD) (1608)
FB308	1-414-864-21	s FERRITE, EMI (SMD) (1608)
FB309	1-414-864-21	s FERRITE, EMI (SMD) (1608)
FB310	1-414-864-21	s FERRITE, EMI (SMD) (1608)
FB311	1-414-864-21	s FERRITE, EMI (SMD) (1608)
FB313	1-414-864-21	s FERRITE, EMI (SMD) (1608)
FB314	1-414-864-21	s FERRITE, EMI (SMD) (1608)
FB315	1-414-864-21	s FERRITE, EMI (SMD) (1608)
FB316	1-414-864-21	s FERRITE, EMI (SMD) (1608)
FB1100	1-414-864-21	s FERRITE, EMI (SMD) (1608)
FB1300	1-414-864-21	s FERRITE, EMI (SMD) (1608)
FL700	1-234-493-21	s FILTER, EMI
FL701	1-234-493-21	s FILTER, EMI
FL702	1-234-493-21	s FILTER, EMI
FL1100	1-234-979-21	s FILTER, EMI REMOVAL (SMD)

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Ref. No. or Q'ty	Part No.	SP Description
IC2	8-759-675-54	s IC TC7W53FK (TE85R)
IC3	6-706-481-01	s IC TC7SET32FU
IC4	8-759-675-54	s IC TC7W53FK (TE85R)
IC5	6-706-481-01	s IC TC7SET32FU
IC6	6-706-476-01	s IC TC7SET04FU
IC7	8-759-645-76	s IC TC74VHCT32AFT
IC9	8-759-672-76	s IC AK9813BF-E2
IC10	6-711-232-01	s IC MAX6966AEE+T
IC11	6-706-364-01	s IC MAX4737EUD
IC12	6-707-851-01	s IC TC74LCX32FT (EKJ)
IC13	6-706-364-01	s IC MAX4737EUD
IC14	8-759-675-54	s IC TC7W53FK (TE85R)
IC15	6-706-481-01	s IC TC7SET32FU
IC16	6-706-478-01	s IC TC7SET08FU
IC17	6-706-481-01	s IC TC7SET32FU
IC18	8-759-592-48	s IC TC7SZ32FU (TE85R)
IC20	6-706-476-01	s IC TC7SET04FU
IC21	6-706-476-01	s IC TC7SET04FU
IC22	8-759-675-54	s IC TC7W53FK (TE85R)
IC100	6-702-231-01	s IC LMH6642MFX/NOPB
IC101	6-708-749-01	s IC SM5308AS-G-ET
IC130	6-702-231-01	s IC LMH6642MFX/NOPB
IC160	6-702-231-01	s IC LMH6642MFX/NOPB
IC202	6-710-776-01	s IC LMH1981MTX
IC250	6-708-816-01	s IC ADV7403BSTZ-110
IC301	6-713-821-01	s IC EPCS16SI8N (AMK)
IC302	6-706-771-01	s IC CY22395FZXC-T1
IC303	8-759-330-14	s IC TL7700CPS-E20
IC600	6-714-435-01	s IC EDD1232ACBH-5B-F
IC601	6-707-035-01	s IC LP2996MRX
IC700	6-711-751-11	s IC THC63LVD103D-R
IC800	6-703-421-01	s IC HD64F7145F50
IC801	6-707-183-01	s IC MB90098APF-G-168-ERE1
IC802	8-759-592-49	s IC TC7SZ125FU (TE85R)
IC803	8-759-592-49	s IC TC7SZ125FU (TE85R)
IC804	6-707-870-01	s IC TC74VHC157FT (EKJ)
IC805	6-704-832-01	s IC IS61LV6416-10TLT
IC806	6-707-868-01	s IC TC74VHC138FT (EKJ)
IC807	8-759-592-47	s IC TC7SZ08FU (TE85R)
IC808	8-759-592-47	s IC TC7SZ08FU (TE85R)
IC809	6-706-478-01	s IC TC7SET08FU
IC810	8-759-592-47	s IC TC7SZ08FU (TE85R)
IC811	8-759-656-54	s IC TC7WH14FK
IC900	6-712-526-01	s IC CAT24C32WI-GT3 (E)
IC901	6-708-758-01	s IC PCA9517DP.118
IC902	6-709-250-01	s IC PCA9516APW-118
IC903	6-710-018-01	s IC CAT24C02WI-GT3
IC904	8-759-592-44	s IC TC7SZ04FU (TE85R)
IC905	6-711-915-01	s IC LM73CIMK-0
IC1000	8-759-183-53	s IC TL431CPK-E2
IC1001	8-759-338-95	s IC NJM2903V (TE2)
IC1002	8-759-183-53	s IC TL431CPK-E2
IC1003	8-759-338-95	s IC NJM2903V (TE2)
IC1005	8-759-338-95	s IC NJM2903V (TE2)
IC1008	6-715-174-01	s IC PCA9539PW-T
IC1100	6-702-510-01	s IC TPS5120DBTRG4
IC1101	8-759-638-44	s IC LTC1625CGN-E2
IC1200	6-702-510-01	s IC TPS5120DBTRG4
IC1201	6-702-510-01	s IC TPS5120DBTRG4

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Ref. No. or Q'ty	Part No.	SP	Description
IC1300	6-709-014-01	s	IC UPC2933BT-E2-AZ
IC1301	6-703-976-01	s	IC R1114Q181D-TR-FA
IC1302	6-712-875-01	s	IC MAX1697UEUT#TG16
IC1303	6-709-012-01	s	IC UPC2918BT-E2-AZ
IC1304	6-713-169-01	s	IC LTC3412AEFE#TR
IC1305	6-713-169-01	s	IC LTC3412AEFE#TR
IC1306	6-711-654-01	s	IC TPS5420DRG4
IC1307	8-759-338-95	s	IC NJM2903V(Te2)
L1	1-469-555-21	s	INDUCTOR, CHIP 10UH (LB2016)
L2	1-469-555-21	s	INDUCTOR, CHIP 10UH (LB2016)
L3	1-469-555-21	s	INDUCTOR, CHIP 10UH (LB2016)
L4	1-469-549-21	s	INDUCTOR, CHIP 1.0UH (LB2016)
L5	1-469-549-21	s	INDUCTOR, CHIP 1.0UH (LB2016)
L6	1-469-549-21	s	INDUCTOR, CHIP 1.0UH (LB2016)
L7	1-469-555-21	s	INDUCTOR, CHIP 10UH (LB2016)
L10	1-469-551-21	s	INDUCTOR, CHIP 2.2UH (LB2016)
L100	1-469-551-21	s	INDUCTOR, CHIP 2.2UH (LB2016)
L101	1-469-555-21	s	INDUCTOR, CHIP 10UH (LB2016)
L200	1-469-555-21	s	INDUCTOR, CHIP 10UH (LB2016)
L250	1-469-549-21	s	INDUCTOR, CHIP 1.0UH (LB2016)
L251	1-469-551-21	s	INDUCTOR, CHIP 2.2UH (LB2016)
L252	1-469-551-21	s	INDUCTOR, CHIP 2.2UH (LB2016)
L253	1-469-551-21	s	INDUCTOR, CHIP 2.2UH (LB2016)
L300	1-469-555-21	s	INDUCTOR, CHIP 10UH (LB2016)
L301	1-469-555-21	s	INDUCTOR, CHIP 10UH (LB2016)
L302	1-469-555-21	s	INDUCTOR, CHIP 10UH (LB2016)
L303	1-469-555-21	s	INDUCTOR, CHIP 10UH (LB2016)
L304	1-469-555-21	s	INDUCTOR, CHIP 10UH (LB2016)
L305	1-469-555-21	s	INDUCTOR, CHIP 10UH (LB2016)
L306	1-469-555-21	s	INDUCTOR, CHIP 10UH (LB2016)
L307	1-469-555-21	s	INDUCTOR, CHIP 10UH (LB2016)
L309	1-469-555-21	s	INDUCTOR, CHIP 10UH (LB2016)
L310	1-469-555-21	s	INDUCTOR, CHIP 10UH (LB2016)
L311	1-469-551-21	s	INDUCTOR, CHIP 2.2UH (LB2016)
L312	1-469-555-21	s	INDUCTOR, CHIP 10UH (LB2016)
L313	1-469-555-21	s	INDUCTOR, CHIP 10UH (LB2016)
L314	1-469-555-21	s	INDUCTOR, CHIP 10UH (LB2016)
L500	1-419-630-21	s	COIL, CHOKE 4.7UH
L501	1-469-551-21	s	INDUCTOR, CHIP 2.2UH (LB2016)
L502	1-469-551-21	s	INDUCTOR, CHIP 2.2UH (LB2016)
L503	1-469-551-21	s	INDUCTOR, CHIP 2.2UH (LB2016)
L670	1-416-344-21	s	COIL, CHOKE 10UH
L700	1-469-551-21	s	INDUCTOR, CHIP 2.2UH (LB2016)
L800	1-469-555-21	s	INDUCTOR, CHIP 10UH (LB2016)
L801	1-469-555-21	s	INDUCTOR, CHIP 10UH (LB2016)
L802	1-469-555-21	s	INDUCTOR, CHIP 10UH (LB2016)
L803	1-469-555-21	s	INDUCTOR, CHIP 10UH (LB2016)
L804	1-469-551-21	s	INDUCTOR, CHIP 2.2UH (LB2016)
L805	1-469-555-21	s	INDUCTOR, CHIP 10UH (LB2016)
L806	1-469-555-21	s	INDUCTOR, CHIP 10UH (LB2016)
L900	1-469-555-21	s	INDUCTOR, CHIP 10UH (LB2016)
L901	1-469-555-21	s	INDUCTOR, CHIP 10UH (LB2016)
L903	1-469-555-21	s	INDUCTOR, CHIP 10UH (LB2016)
L1000	1-456-622-21	s	COIL, CHOKE 1UH
L1100	1-400-869-11	s	COIL, CHOKE 47UH
L1101	1-400-869-11	s	COIL, CHOKE 47UH
L1102	1-456-622-21	s	COIL, CHOKE 1UH
L1103	1-416-281-21	s	COIL, CHOKE 22UH

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Ref. No. or Q'ty	Part No.	SP	Description
L1104	1-419-630-21	s	COIL, CHOKE 4.7UH
L1105	1-456-622-21	s	COIL, CHOKE 1UH
L1106	1-419-630-21	s	COIL, CHOKE 4.7UH
L1200	1-400-869-11	s	COIL, CHOKE 47UH
L1201	1-400-869-11	s	COIL, CHOKE 47UH
L1202	1-456-622-21	s	COIL, CHOKE 1UH
L1203	1-456-622-21	s	COIL, CHOKE 1UH
L1204	1-400-869-11	s	COIL, CHOKE 47UH
L1205	1-400-868-11	s	COIL, CHOKE 22UH
L1206	1-456-622-21	s	COIL, CHOKE 1UH
L1207	1-456-622-21	s	COIL, CHOKE 1UH
L1208	1-456-622-21	s	COIL, CHOKE 1UH
L1300	1-469-549-21	s	INDUCTOR, CHIP 1.0UH (LB2016)
L1301	1-469-549-21	s	INDUCTOR, CHIP 1.0UH (LB2016)
L1302	1-469-549-21	s	INDUCTOR, CHIP 1.0UH (LB2016)
L1303	1-456-622-21	s	COIL, CHOKE 1UH
L1304	1-456-622-21	s	COIL, CHOKE 1UH
L1305	1-456-622-21	s	COIL, CHOKE 1UH
L1306	1-416-510-21	s	COIL, CHOKE 100UH
L1307	1-469-555-21	s	INDUCTOR, CHIP 10UH (LB2016)
L1308	1-469-555-21	s	INDUCTOR, CHIP 10UH (LB2016)
PS1300	Δ 1-576-122-21	s	LINK, IC (0.4A/72V)
Q100	8-729-928-25	s	TRANSISTOR 2SA1774TL-QR
Q130	8-729-928-25	s	TRANSISTOR 2SA1774TL-QR
Q160	8-729-928-25	s	TRANSISTOR 2SA1774TL-QR
Q300	8-729-928-28	s	TRANSISTOR DTA144EE-TL
Q400	8-729-928-82	s	TRANSISTOR DTC144EE-TL
Q401	8-729-928-82	s	TRANSISTOR DTC144EE-TL
Q402	8-729-928-82	s	TRANSISTOR DTC144EE-TL
Q1000	8-729-928-05	s	TRANSISTOR 2SC4617TL-QR
Q1001	8-729-929-27	s	TRANSISTOR DTC114TE-TL
Q1002	8-729-928-05	s	TRANSISTOR 2SC4617TL-QR
Q1003	6-552-545-01	s	TR SI4425DDY-T1-GE3
Q1004	8-729-928-05	s	TRANSISTOR 2SC4617TL-QR
Q1005	8-729-928-28	s	TRANSISTOR DTA144EE-TL
Q1006	8-729-929-27	s	TRANSISTOR DTC114TE-TL
Q1007	8-729-929-27	s	TRANSISTOR DTC114TE-TL
Q1008	8-729-928-28	s	TRANSISTOR DTA144EE-TL
Q1009	8-729-928-05	s	TRANSISTOR 2SC4617TL-QR
Q1010	8-729-928-28	s	TRANSISTOR DTA144EE-TL
Q1011	8-729-928-82	s	TRANSISTOR DTC144EE-TL
Q1012	6-552-545-01	s	TR SI4425DDY-T1-GE3
Q1013	8-729-928-05	s	TRANSISTOR 2SC4617TL-QR
Q1100	8-729-929-27	s	TRANSISTOR DTC114TE-TL
Q1101	8-729-929-27	s	TRANSISTOR DTC114TE-TL
Q1102	8-729-929-27	s	TRANSISTOR DTC114TE-TL
Q1103	8-729-929-27	s	TRANSISTOR DTC114TE-TL
Q1104	6-551-190-01	s	TRANSISTOR HAT2218R-EL-E
Q1105	6-551-190-01	s	TRANSISTOR HAT2218R-EL-E
Q1106	8-729-928-82	s	TRANSISTOR DTC144EE-TL
Q1107	6-551-190-01	s	TRANSISTOR HAT2218R-EL-E
Q1108	8-729-928-82	s	TRANSISTOR DTC144EE-TL
Q1200	8-729-928-82	s	TRANSISTOR DTC144EE-TL
Q1201	8-729-929-27	s	TRANSISTOR DTC114TE-TL
Q1202	8-729-929-27	s	TRANSISTOR DTC114TE-TL
Q1203	8-729-929-27	s	TRANSISTOR DTC114TE-TL
Q1204	8-729-929-27	s	TRANSISTOR DTC114TE-TL

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Ref. No. or Q'ty	Part No.	SP Description
Q1205	6-551-190-01	s TRANSISTOR HAT2218R-EL-E
Q1206	6-551-190-01	s TRANSISTOR HAT2218R-EL-E
Q1207	8-729-929-27	s TRANSISTOR DTC114TE-TL
Q1208	8-729-929-27	s TRANSISTOR DTC114TE-TL
Q1209	8-729-929-27	s TRANSISTOR DTC114TE-TL
Q1210	6-551-190-01	s TRANSISTOR HAT2218R-EL-E
Q1211	6-551-190-01	s TRANSISTOR HAT2218R-EL-E
Q1300	8-729-929-27	s TRANSISTOR DTC114TE-TL
Q1306	8-729-928-82	s TRANSISTOR DTC144EE-TL
R8	1-208-887-81	s RES, CHIP 1.0K (1005)
R9	1-208-887-81	s RES, CHIP 1.0K (1005)
R10	1-208-887-81	s RES, CHIP 1.0K (1005)
R11	1-208-887-81	s RES, CHIP 1.0K (1005)
R12	1-208-887-81	s RES, CHIP 1.0K (1005)
R15	1-208-863-81	s RES, CHIP 100 (1005)
R16	1-208-863-81	s RES, CHIP 100 (1005)
R17	1-208-863-81	s RES, CHIP 100 (1005)
R19	1-220-878-81	s RES, CHIP 22 (1005)
R20	1-220-878-81	s RES, CHIP 22 (1005)
R21	1-208-911-81	s RES, CHIP 10K (1005)
R23	1-208-935-81	s RES, CHIP 100K (1005)
R24	1-208-935-81	s RES, CHIP 100K (1005)
R25	1-208-935-81	s RES, CHIP 100K (1005)
R29	1-208-863-81	s RES, CHIP 100 (1005)
R30	1-208-863-81	s RES, CHIP 100 (1005)
R31	1-208-863-81	s RES, CHIP 100 (1005)
R32	1-208-863-81	s RES, CHIP 100 (1005)
R33	1-208-863-81	s RES, CHIP 100 (1005)
R34	1-208-863-81	s RES, CHIP 100 (1005)
R100	1-208-860-81	s RES, CHIP 75 (1005)
R101	1-218-990-81	s CONDUCTOR, CHIP (1005)
R102	1-208-911-81	s RES, CHIP 10K (1005)
R103	1-208-887-81	s RES, CHIP 1.0K (1005)
R104	1-208-887-81	s RES, CHIP 1.0K (1005)
R105	1-208-887-81	s RES, CHIP 1.0K (1005)
R109	1-208-887-81	s RES, CHIP 1.0K (1005)
R112	1-220-878-81	s RES, CHIP 22 (1005)
R119	1-208-895-81	s RES, CHIP 2.2K (1005)
R120	1-220-878-81	s RES, CHIP 22 (1005)
R121	1-208-887-81	s RES, CHIP 1.0K (1005)
R122	1-208-863-81	s RES, CHIP 100 (1005)
R130	1-208-860-81	s RES, CHIP 75 (1005)
R131	1-218-990-81	s CONDUCTOR, CHIP (1005)
R132	1-208-911-81	s RES, CHIP 10K (1005)
R133	1-208-887-81	s RES, CHIP 1.0K (1005)
R134	1-208-887-81	s RES, CHIP 1.0K (1005)
R135	1-208-887-81	s RES, CHIP 1.0K (1005)
R139	1-208-887-81	s RES, CHIP 1.0K (1005)
R142	1-220-878-81	s RES, CHIP 22 (1005)
R143	1-208-891-81	s RES, CHIP 1.5K (1005)
R144	1-208-875-81	s RES, CHIP 330 (1005)
R149	1-208-895-81	s RES, CHIP 2.2K (1005)
R150	1-220-878-81	s RES, CHIP 22 (1005)
R151	1-208-887-81	s RES, CHIP 1.0K (1005)
R152	1-208-863-81	s RES, CHIP 100 (1005)
R160	1-208-860-81	s RES, CHIP 75 (1005)
R161	1-218-990-81	s CONDUCTOR, CHIP (1005)
R162	1-208-911-81	s RES, CHIP 10K (1005)
R163	1-208-887-81	s RES, CHIP 1.0K (1005)

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Ref. No. or Q'ty	Part No.	SP Description
R164	1-208-887-81	s RES, CHIP 1.0K (1005)
R165	1-208-887-81	s RES, CHIP 1.0K (1005)
R169	1-208-887-81	s RES, CHIP 1.0K (1005)
R172	1-220-878-81	s RES, CHIP 22 (1005)
R173	1-220-878-81	s RES, CHIP 22 (1005)
R174	1-220-878-81	s RES, CHIP 22 (1005)
R179	1-208-895-81	s RES, CHIP 2.2K (1005)
R180	1-220-878-81	s RES, CHIP 22 (1005)
R181	1-208-887-81	s RES, CHIP 1.0K (1005)
R182	1-208-863-81	s RES, CHIP 100 (1005)
R216	1-208-911-81	s RES, CHIP 10K (1005)
R217	1-208-863-81	s RES, CHIP 100 (1005)
R218	1-208-863-81	s RES, CHIP 100 (1005)
R219	1-208-863-81	s RES, CHIP 100 (1005)
R220	1-208-863-81	s RES, CHIP 100 (1005)
R221	1-208-863-81	s RES, CHIP 100 (1005)
R222	1-208-863-81	s RES, CHIP 100 (1005)
R223	1-220-878-81	s RES, CHIP 22 (1005)
R250	1-208-855-81	s RES, CHIP 47 (1005)
R251	1-208-855-81	s RES, CHIP 47 (1005)
R252	1-208-855-81	s RES, CHIP 47 (1005)
R253	1-208-855-81	s RES, CHIP 47 (1005)
R254	1-208-855-81	s RES, CHIP 47 (1005)
R255	1-208-855-81	s RES, CHIP 47 (1005)
R256	1-208-959-81	s RES, CHIP 1M (1005)
R257	1-208-855-81	s RES, CHIP 47 (1005)
R258	1-208-887-81	s RES, CHIP 1.0K (1005)
R259	1-208-879-81	s RES, CHIP 470 (1005)
R260	1-208-863-81	s RES, CHIP 100 (1005)
R261	1-208-863-81	s RES, CHIP 100 (1005)
R262	1-208-863-81	s RES, CHIP 100 (1005)
R263	1-208-863-81	s RES, CHIP 100 (1005)
R264	1-208-863-81	s RES, CHIP 100 (1005)
R265	1-220-878-81	s RES, CHIP 22 (1005)
R266	1-220-878-81	s RES, CHIP 22 (1005)
R267	1-208-863-81	s RES, CHIP 100 (1005)
R268	1-208-887-81	s RES, CHIP 1.0K (1005)
R269	1-208-897-81	s RES, CHIP 2.7K (1005)
R270	1-208-897-81	s RES, CHIP 2.7K (1005)
R271	1-220-882-81	s RES, CHIP 33 (1005)
R300	1-208-863-81	s RES, CHIP 100 (1005)
R301	1-208-863-81	s RES, CHIP 100 (1005)
R302	1-208-863-81	s RES, CHIP 100 (1005)
R303	1-208-863-81	s RES, CHIP 100 (1005)
R304	1-208-855-81	s RES, CHIP 47 (1005)
R305	1-208-863-81	s RES, CHIP 100 (1005)
R306	1-208-863-81	s RES, CHIP 100 (1005)
R307	1-208-911-81	s RES, CHIP 10K (1005)
R309	1-208-911-81	s RES, CHIP 10K (1005)
R310	1-208-911-81	s RES, CHIP 10K (1005)
R311	1-208-911-81	s RES, CHIP 10K (1005)
R312	1-208-911-81	s RES, CHIP 10K (1005)
R313	1-208-911-81	s RES, CHIP 10K (1005)
R314	1-208-911-81	s RES, CHIP 10K (1005)
R315	1-208-911-81	s RES, CHIP 10K (1005)
R346	1-208-935-81	s RES, CHIP 100K (1005)
R347	1-218-990-81	s CONDUCTOR, CHIP (1005)
R348	1-208-863-81	s RES, CHIP 100 (1005)
R349	1-220-878-81	s RES, CHIP 22 (1005)

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Ref. No. or Q'ty	Part No.	SP Description
R350	1-220-878-81	s RES, CHIP 22 (1005)
R352	1-208-895-81	s RES, CHIP 2.2K (1005)
R353	1-208-895-81	s RES, CHIP 2.2K (1005)
R354	1-208-911-81	s RES, CHIP 10K (1005)
R355	1-208-911-81	s RES, CHIP 10K (1005)
R356	1-218-990-81	s CONDUCTOR, CHIP (1005)
R357	1-220-878-81	s RES, CHIP 22 (1005)
R362	1-218-990-81	s CONDUCTOR, CHIP (1005)
R364	1-208-911-81	s RES, CHIP 10K (1005)
R365	1-208-911-81	s RES, CHIP 10K (1005)
R366	1-208-939-81	s RES, CHIP 150K (1005)
R367	1-208-919-81	s RES, CHIP 22K (1005)
R368	1-208-915-81	s RES, CHIP 15K (1005)
R369	1-208-899-81	s RES, CHIP 3.3K (1005)
R370	1-208-863-81	s RES, CHIP 100 (1005)
R380	1-208-855-81	s RES, CHIP 47 (1005)
R383	1-208-863-81	s RES, CHIP 100 (1005)
R384	1-208-855-81	s RES, CHIP 47 (1005)
R386	1-208-863-81	s RES, CHIP 100 (1005)
R388	1-208-863-81	s RES, CHIP 100 (1005)
R391	1-220-878-81	s RES, CHIP 22 (1005)
R392	1-220-878-81	s RES, CHIP 22 (1005)
R400	1-218-990-81	s CONDUCTOR, CHIP (1005)
R404	1-208-863-81	s RES, CHIP 100 (1005)
R406	1-208-863-81	s RES, CHIP 100 (1005)
R411	1-208-863-81	s RES, CHIP 100 (1005)
R413	1-208-895-81	s RES, CHIP 2.2K (1005)
R414	1-208-895-81	s RES, CHIP 2.2K (1005)
R415	1-208-895-81	s RES, CHIP 2.2K (1005)
R421	1-218-990-81	s CONDUCTOR, CHIP (1005)
R423	1-208-863-81	s RES, CHIP 100 (1005)
R425	1-208-863-81	s RES, CHIP 100 (1005)
R429	1-220-878-81	s RES, CHIP 22 (1005)
R430	1-220-878-81	s RES, CHIP 22 (1005)
R431	1-220-878-81	s RES, CHIP 22 (1005)
R432	1-220-878-81	s RES, CHIP 22 (1005)
R433	1-220-878-81	s RES, CHIP 22 (1005)
R434	1-220-878-81	s RES, CHIP 22 (1005)
R444	1-218-990-81	s CONDUCTOR, CHIP (1005)
R450	1-218-990-81	s CONDUCTOR, CHIP (1005)
R451	1-218-990-81	s CONDUCTOR, CHIP (1005)
R452	1-218-990-81	s CONDUCTOR, CHIP (1005)
R453	1-218-990-81	s CONDUCTOR, CHIP (1005)
R454	1-220-878-81	s RES, CHIP 22 (1005)
R455	1-220-878-81	s RES, CHIP 22 (1005)
R456	1-220-878-81	s RES, CHIP 22 (1005)
R457	1-220-878-81	s RES, CHIP 22 (1005)
R463	1-218-990-81	s CONDUCTOR, CHIP (1005)
R465	1-208-911-81	s RES, CHIP 10K (1005)
R466	1-220-878-81	s RES, CHIP 22 (1005)
R467	1-208-855-81	s RES, CHIP 47 (1005)
R470	1-220-882-81	s RES, CHIP 33 (1005)
R472	1-220-878-81	s RES, CHIP 22 (1005)
R476	1-208-863-81	s RES, CHIP 100 (1005)
R477	1-208-855-81	s RES, CHIP 47 (1005)
R486	1-208-855-81	s RES, CHIP 47 (1005)
R492	1-220-882-81	s RES, CHIP 33 (1005)
R494	1-220-878-81	s RES, CHIP 22 (1005)
R495	1-208-863-81	s RES, CHIP 100 (1005)

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Ref. No. or Q'ty	Part No.	SP Description
R496	1-208-863-81	s RES, CHIP 100 (1005)
R497	1-208-863-81	s RES, CHIP 100 (1005)
R499	1-208-855-81	s RES, CHIP 47 (1005)
R505	1-208-911-81	s RES, CHIP 10K (1005)
R506	1-208-863-81	s RES, CHIP 100 (1005)
R515	1-208-883-81	s RES, CHIP 680 (1005)
R516	1-208-863-81	s RES, CHIP 100 (1005)
R517	1-208-877-81	s RES, CHIP 390 (1005)
R519	1-220-878-81	s RES, CHIP 22 (1005)
R520	1-208-855-81	s RES, CHIP 47 (1005)
R560	1-208-887-81	s RES, CHIP 1.0K (1005)
R561	1-208-855-81	s RES, CHIP 47 (1005)
R562	1-220-878-81	s RES, CHIP 22 (1005)
R563	1-208-911-81	s RES, CHIP 10K (1005)
R564	1-208-911-81	s RES, CHIP 10K (1005)
R565	1-208-911-81	s RES, CHIP 10K (1005)
R566	1-208-911-81	s RES, CHIP 10K (1005)
R567	1-208-911-81	s RES, CHIP 10K (1005)
R568	1-208-911-81	s RES, CHIP 10K (1005)
R569	1-208-911-81	s RES, CHIP 10K (1005)
R570	1-208-911-81	s RES, CHIP 10K (1005)
R571	1-208-911-81	s RES, CHIP 10K (1005)
R572	1-208-911-81	s RES, CHIP 10K (1005)
R573	1-208-911-81	s RES, CHIP 10K (1005)
R575	1-208-855-81	s RES, CHIP 47 (1005)
R630	1-220-878-81	s RES, CHIP 22 (1005)
R631	1-220-878-81	s RES, CHIP 22 (1005)
R632	1-220-878-81	s RES, CHIP 22 (1005)
R633	1-220-878-81	s RES, CHIP 22 (1005)
R634	1-220-878-81	s RES, CHIP 22 (1005)
R635	1-220-878-81	s RES, CHIP 22 (1005)
R636	1-220-878-81	s RES, CHIP 22 (1005)
R637	1-220-878-81	s RES, CHIP 22 (1005)
R638	1-220-878-81	s RES, CHIP 22 (1005)
R639	1-220-878-81	s RES, CHIP 22 (1005)
R640	1-220-878-81	s RES, CHIP 22 (1005)
R641	1-220-878-81	s RES, CHIP 22 (1005)
R642	1-220-878-81	s RES, CHIP 22 (1005)
R643	1-220-878-81	s RES, CHIP 22 (1005)
R644	1-220-878-81	s RES, CHIP 22 (1005)
R645	1-220-878-81	s RES, CHIP 22 (1005)
R646	1-220-878-81	s RES, CHIP 22 (1005)
R647	1-208-863-81	s RES, CHIP 100 (1005)
R648	1-208-863-81	s RES, CHIP 100 (1005)
R649	1-208-863-81	s RES, CHIP 100 (1005)
R650	1-208-863-81	s RES, CHIP 100 (1005)
R651	1-208-863-81	s RES, CHIP 100 (1005)
R652	1-208-863-81	s RES, CHIP 100 (1005)
R653	1-208-863-81	s RES, CHIP 100 (1005)
R654	1-208-863-81	s RES, CHIP 100 (1005)
R655	1-208-863-81	s RES, CHIP 100 (1005)
R656	1-208-863-81	s RES, CHIP 100 (1005)
R657	1-208-863-81	s RES, CHIP 100 (1005)
R658	1-208-863-81	s RES, CHIP 100 (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	1-208-863-81	s RES, CHIP 100 (1005)
R663	1-208-863-81	s RES, CHIP 100 (1005)

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Ref. No. or Q'ty	Part No.	SP Description
R680	1-208-867-81	s RES, CHIP 150 (1005)
R700	1-208-911-81	s RES, CHIP 10K (1005)
R701	1-208-911-81	s RES, CHIP 10K (1005)
R702	1-208-911-81	s RES, CHIP 10K (1005)
R704	1-208-863-81	s RES, CHIP 100 (1005)
R705	1-208-911-81	s RES, CHIP 10K (1005)
R706	1-208-911-81	s RES, CHIP 10K (1005)
R707	1-220-878-81	s RES, CHIP 22 (1005)
R708	1-220-878-81	s RES, CHIP 22 (1005)
R709	1-220-878-81	s RES, CHIP 22 (1005)
R800	1-208-911-81	s RES, CHIP 10K (1005)
R801	1-208-911-81	s RES, CHIP 10K (1005)
R802	1-208-911-81	s RES, CHIP 10K (1005)
R803	1-208-911-81	s RES, CHIP 10K (1005)
R804	1-208-911-81	s RES, CHIP 10K (1005)
R805	1-208-911-81	s RES, CHIP 10K (1005)
R806	1-208-911-81	s RES, CHIP 10K (1005)
R808	1-208-935-81	s RES, CHIP 100K (1005)
R809	1-208-903-81	s RES, CHIP 4.7K (1005)
R810	1-208-935-81	s RES, CHIP 100K (1005)
R811	1-208-935-81	s RES, CHIP 100K (1005)
R812	1-208-935-81	s RES, CHIP 100K (1005)
R813	1-208-935-81	s RES, CHIP 100K (1005)
R814	1-208-935-81	s RES, CHIP 100K (1005)
R815	1-208-911-81	s RES, CHIP 10K (1005)
R816	1-208-935-81	s RES, CHIP 100K (1005)
R817	1-208-935-81	s RES, CHIP 100K (1005)
R818	1-208-935-81	s RES, CHIP 100K (1005)
R819	1-208-935-81	s RES, CHIP 100K (1005)
R820	1-208-935-81	s RES, CHIP 100K (1005)
R821	1-208-935-81	s RES, CHIP 100K (1005)
R822	1-208-935-81	s RES, CHIP 100K (1005)
R823	1-208-935-81	s RES, CHIP 100K (1005)
R824	1-208-935-81	s RES, CHIP 100K (1005)
R825	1-208-935-81	s RES, CHIP 100K (1005)
R826	1-208-899-81	s RES, CHIP 3.3K (1005)
R827	1-208-871-81	s RES, CHIP 220 (1005)
R828	1-208-911-81	s RES, CHIP 10K (1005)
R829	1-208-855-81	s RES, CHIP 47 (1005)
R830	1-220-878-81	s RES, CHIP 22 (1005)
R831	1-220-878-81	s RES, CHIP 22 (1005)
R832	1-208-887-81	s RES, CHIP 1.0K (1005)
R833	1-208-911-81	s RES, CHIP 10K (1005)
R834	1-220-878-81	s RES, CHIP 22 (1005)
R835	1-220-878-81	s RES, CHIP 22 (1005)
R836	1-220-878-81	s RES, CHIP 22 (1005)
R837	1-208-855-81	s RES, CHIP 47 (1005)
R838	1-220-878-81	s RES, CHIP 22 (1005)
R839	1-220-878-81	s RES, CHIP 22 (1005)
R841	1-208-911-81	s RES, CHIP 10K (1005)
R842	1-208-863-81	s RES, CHIP 100 (1005)
R843	1-208-863-81	s RES, CHIP 100 (1005)
R844	1-208-911-81	s RES, CHIP 10K (1005)
R846	1-208-911-81	s RES, CHIP 10K (1005)
R849	1-208-911-81	s RES, CHIP 10K (1005)
R850	1-208-935-81	s RES, CHIP 100K (1005)
R851	1-208-935-81	s RES, CHIP 100K (1005)
R852	1-208-863-81	s RES, CHIP 100 (1005)
R853	1-208-911-81	s RES, CHIP 10K (1005)

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Ref. No. or Q'ty	Part No.	SP Description
R854	1-208-911-81	s RES, CHIP 10K (1005)
R855	1-208-863-81	s RES, CHIP 100 (1005)
R858	1-208-911-81	s RES, CHIP 10K (1005)
R859	1-208-863-81	s RES, CHIP 100 (1005)
R860	1-208-855-81	s RES, CHIP 47 (1005)
R864	1-208-887-81	s RES, CHIP 1.0K (1005)
R865	1-208-887-81	s RES, CHIP 1.0K (1005)
R866	1-208-911-81	s RES, CHIP 10K (1005)
R867	1-220-878-81	s RES, CHIP 22 (1005)
R868	1-220-878-81	s RES, CHIP 22 (1005)
R870	1-208-863-81	s RES, CHIP 100 (1005)
R871	1-208-863-81	s RES, CHIP 100 (1005)
R872	1-208-863-81	s RES, CHIP 100 (1005)
R900	1-208-907-81	s RES, CHIP 6.8K (1005)
R901	1-208-863-81	s RES, CHIP 100 (1005)
R905	1-208-907-81	s RES, CHIP 6.8K (1005)
R906	1-208-863-81	s RES, CHIP 100 (1005)
R907	1-208-911-81	s RES, CHIP 10K (1005)
R908	1-208-911-81	s RES, CHIP 10K (1005)
R909	1-208-863-81	s RES, CHIP 100 (1005)
R910	1-208-863-81	s RES, CHIP 100 (1005)
R911	1-208-863-81	s RES, CHIP 100 (1005)
R912	1-208-863-81	s RES, CHIP 100 (1005)
R914	1-208-895-81	s RES, CHIP 2.2K (1005)
R915	1-208-895-81	s RES, CHIP 2.2K (1005)
R916	1-208-895-81	s RES, CHIP 2.2K (1005)
R920	1-208-895-81	s RES, CHIP 2.2K (1005)
R921	1-208-895-81	s RES, CHIP 2.2K (1005)
R922	1-208-895-81	s RES, CHIP 2.2K (1005)
R923	1-208-895-81	s RES, CHIP 2.2K (1005)
R924	1-208-895-81	s RES, CHIP 2.2K (1005)
R925	1-208-895-81	s RES, CHIP 2.2K (1005)
R926	1-208-895-81	s RES, CHIP 2.2K (1005)
R927	1-220-878-81	s RES, CHIP 22 (1005)
R928	1-220-878-81	s RES, CHIP 22 (1005)
R931	1-208-935-81	s RES, CHIP 100K (1005)
R932	1-220-878-81	s RES, CHIP 22 (1005)
R933	1-220-878-81	s RES, CHIP 22 (1005)
R936	1-220-878-81	s RES, CHIP 22 (1005)
R937	1-220-878-81	s RES, CHIP 22 (1005)
R1004	1-208-907-81	s RES, CHIP 6.8K (1005)
R1005	1-208-907-81	s RES, CHIP 6.8K (1005)
R1006	1-208-907-81	s RES, CHIP 6.8K (1005)
R1007	1-208-931-81	s RES, CHIP 68K (1005)
R1008	1-208-903-81	s RES, CHIP 4.7K (1005)
R1009	1-208-903-81	s RES, CHIP 4.7K (1005)
R1010	1-208-931-81	s RES, CHIP 68K (1005)
R1011	1-218-990-81	s CONDUCTOR, CHIP (1005)
R1013	1-208-911-81	s RES, CHIP 10K (1005)
R1014	1-208-875-81	s RES, CHIP 330 (1005)
R1015	1-208-887-81	s RES, CHIP 1.0K (1005)
R1016	1-208-895-81	s RES, CHIP 2.2K (1005)
R1017	1-208-899-81	s RES, CHIP 3.3K (1005)
R1018	1-208-899-81	s RES, CHIP 3.3K (1005)
R1019	1-208-863-81	s RES, CHIP 100 (1005)
R1020	1-208-903-81	s RES, CHIP 4.7K (1005)
R1021	1-208-911-81	s RES, CHIP 10K (1005)
R1022	1-208-931-81	s RES, CHIP 68K (1005)
R1023	1-208-931-81	s RES, CHIP 68K (1005)

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Ref. No. or Q'ty	Part No.	SP Description
R1024	1-208-911-81 s	RES, CHIP 10K (1005)
R1025	1-208-927-81 s	RES, CHIP 47K (1005)
R1026	1-208-911-81 s	RES, CHIP 10K (1005)
R1027	1-208-903-81 s	RES, CHIP 4.7K (1005)
R1028	1-208-907-81 s	RES, CHIP 6.8K (1005)
R1029	1-208-907-81 s	RES, CHIP 6.8K (1005)
R1030	1-208-907-81 s	RES, CHIP 6.8K (1005)
R1031	1-208-927-81 s	RES, CHIP 47K (1005)
R1032	1-208-927-81 s	RES, CHIP 47K (1005)
R1033	1-208-927-81 s	RES, CHIP 47K (1005)
R1034	1-208-927-81 s	RES, CHIP 47K (1005)
R1035	1-208-927-81 s	RES, CHIP 47K (1005)
R1037	1-208-911-81 s	RES, CHIP 10K (1005)
R1038	1-208-915-81 s	RES, CHIP 15K (1005)
R1039	1-208-895-81 s	RES, CHIP 2.2K (1005)
R1040	1-208-919-81 s	RES, CHIP 22K (1005)
R1041	1-208-927-81 s	RES, CHIP 47K (1005)
R1042	1-208-879-81 s	RES, CHIP 470 (1005)
R1043	1-208-903-81 s	RES, CHIP 4.7K (1005)
R1046	1-208-927-81 s	RES, CHIP 47K (1005)
R1047	1-208-891-81 s	RES, CHIP 1.5K (1005)
R1048	1-208-907-81 s	RES, CHIP 6.8K (1005)
R1049	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R1050	1-208-923-81 s	RES, CHIP 33K (1005)
R1051	1-208-907-81 s	RES, CHIP 6.8K (1005)
R1052	1-208-923-81 s	RES, CHIP 33K (1005)
R1053	1-208-907-81 s	RES, CHIP 6.8K (1005)
R1054	1-208-915-81 s	RES, CHIP 15K (1005)
R1055	1-208-907-81 s	RES, CHIP 6.8K (1005)
R1056	1-208-911-81 s	RES, CHIP 10K (1005)
R1057	1-208-911-81 s	RES, CHIP 10K (1005)
R1058	1-208-923-81 s	RES, CHIP 33K (1005)
R1059	1-208-907-81 s	RES, CHIP 6.8K (1005)
R1060	1-208-915-81 s	RES, CHIP 15K (1005)
R1061	1-208-907-81 s	RES, CHIP 6.8K (1005)
R1062	1-208-915-81 s	RES, CHIP 15K (1005)
R1063	1-208-907-81 s	RES, CHIP 6.8K (1005)
R1064	1-208-915-81 s	RES, CHIP 15K (1005)
R1065	1-208-907-81 s	RES, CHIP 6.8K (1005)
R1066	1-208-911-81 s	RES, CHIP 10K (1005)
R1067	1-208-907-81 s	RES, CHIP 6.8K (1005)
R1068	1-208-911-81 s	RES, CHIP 10K (1005)
R1069	1-208-907-81 s	RES, CHIP 6.8K (1005)
R1071	1-208-915-81 s	RES, CHIP 15K (1005)
R1072	1-208-907-81 s	RES, CHIP 6.8K (1005)
R1073	1-208-927-81 s	RES, CHIP 47K (1005)
R1074	1-208-923-81 s	RES, CHIP 33K (1005)
R1075	1-208-911-81 s	RES, CHIP 10K (1005)
R1076	1-208-907-81 s	RES, CHIP 6.8K (1005)
R1077	1-208-919-81 s	RES, CHIP 22K (1005)
R1078	1-208-923-81 s	RES, CHIP 33K (1005)
R1082	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R1083	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R1084	1-208-887-81 s	RES, CHIP 1.0K (1005)
R1089	1-208-911-81 s	RES, CHIP 10K (1005)
R1100	1-208-919-81 s	RES, CHIP 22K (1005)
R1101	1-208-863-81 s	RES, CHIP 100 (1005)
R1102	1-208-863-81 s	RES, CHIP 100 (1005)
R1103	1-208-863-81 s	RES, CHIP 100 (1005)

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Ref. No. or Q'ty	Part No.	SP Description
R1104	1-208-911-81 s	RES, CHIP 10K (1005)
R1105	1-208-935-81 s	RES, CHIP 100K (1005)
R1107	1-208-895-81 s	RES, CHIP 2.2K (1005)
R1108	1-208-903-81 s	RES, CHIP 4.7K (1005)
R1109	1-208-903-81 s	RES, CHIP 4.7K (1005)
R1110	1-208-895-81 s	RES, CHIP 2.2K (1005)
R1111	1-208-911-81 s	RES, CHIP 10K (1005)
R1112	1-208-915-81 s	RES, CHIP 15K (1005)
R1113	1-208-911-81 s	RES, CHIP 10K (1005)
R1114	1-208-915-81 s	RES, CHIP 15K (1005)
R1115	1-208-887-81 s	RES, CHIP 1.0K (1005)
R1116	1-208-911-81 s	RES, CHIP 10K (1005)
R1117	1-208-911-81 s	RES, CHIP 10K (1005)
R1118	1-208-887-81 s	RES, CHIP 1.0K (1005)
R1119	1-208-895-81 s	RES, CHIP 2.2K (1005)
R1120	1-208-919-81 s	RES, CHIP 22K (1005)
R1121	1-208-923-81 s	RES, CHIP 33K (1005)
R1122	1-208-895-81 s	RES, CHIP 2.2K (1005)
R1123	1-208-923-81 s	RES, CHIP 33K (1005)
R1124	1-208-883-81 s	RES, CHIP 680 (1005)
R1125	1-208-919-81 s	RES, CHIP 22K (1005)
R1126	1-208-927-81 s	RES, CHIP 47K (1005)
R1127	1-208-927-81 s	RES, CHIP 47K (1005)
R1128	1-208-927-81 s	RES, CHIP 47K (1005)
R1129	1-208-883-81 s	RES, CHIP 680 (1005)
R1130	1-208-927-81 s	RES, CHIP 47K (1005)
R1131	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R1133	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R1134	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R1136	1-208-903-81 s	RES, CHIP 4.7K (1005)
R1137	1-208-903-81 s	RES, CHIP 4.7K (1005)
R1138	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R1139	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R1143	1-208-959-81 s	RES, CHIP 1M (1005)
R1144	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R1145	1-208-923-81 s	RES, CHIP 33K (1005)
R1147	1-220-878-81 s	RES, CHIP 22 (1005)
R1150	1-208-923-81 s	RES, CHIP 33K (1005)
R1151	1-208-883-81 s	RES, CHIP 680 (1005)
R1152	1-208-903-81 s	RES, CHIP 4.7K (1005)
R1156	1-208-935-81 s	RES, CHIP 100K (1005)
R1201	1-208-919-81 s	RES, CHIP 22K (1005)
R1202	1-208-919-81 s	RES, CHIP 22K (1005)
R1203	1-208-935-81 s	RES, CHIP 100K (1005)
R1204	1-208-863-81 s	RES, CHIP 100 (1005)
R1205	1-208-863-81 s	RES, CHIP 100 (1005)
R1206	1-208-863-81 s	RES, CHIP 100 (1005)
R1208	1-208-899-81 s	RES, CHIP 3.3K (1005)
R1209	1-208-895-81 s	RES, CHIP 2.2K (1005)
R1210	1-208-899-81 s	RES, CHIP 3.3K (1005)
R1211	1-208-895-81 s	RES, CHIP 2.2K (1005)
R1212	1-208-919-81 s	RES, CHIP 22K (1005)
R1213	1-208-927-81 s	RES, CHIP 47K (1005)
R1214	1-208-919-81 s	RES, CHIP 22K (1005)
R1215	1-208-927-81 s	RES, CHIP 47K (1005)
R1216	1-208-887-81 s	RES, CHIP 1.0K (1005)
R1217	1-208-911-81 s	RES, CHIP 10K (1005)
R1218	1-208-911-81 s	RES, CHIP 10K (1005)
R1219	1-208-887-81 s	RES, CHIP 1.0K (1005)

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Ref. No. or Q'ty	Part No.	SP Description
R1220	1-208-895-81 s	RES, CHIP 2.2K (1005)
R1221	1-208-895-81 s	RES, CHIP 2.2K (1005)
R1222	1-208-927-81 s	RES, CHIP 47K (1005)
R1223	1-208-927-81 s	RES, CHIP 47K (1005)
R1224	1-208-883-81 s	RES, CHIP 680 (1005)
R1225	1-208-927-81 s	RES, CHIP 47K (1005)
R1226	1-208-927-81 s	RES, CHIP 47K (1005)
R1227	1-208-927-81 s	RES, CHIP 47K (1005)
R1228	1-208-927-81 s	RES, CHIP 47K (1005)
R1229	1-208-927-81 s	RES, CHIP 47K (1005)
R1230	1-208-883-81 s	RES, CHIP 680 (1005)
R1231	1-208-927-81 s	RES, CHIP 47K (1005)
R1234	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R1235	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R1237	1-208-903-81 s	RES, CHIP 4.7K (1005)
R1238	1-208-903-81 s	RES, CHIP 4.7K (1005)
R1239	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R1240	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R1244	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R1245	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R1246	1-208-935-81 s	RES, CHIP 100K (1005)
R1247	1-208-863-81 s	RES, CHIP 100 (1005)
R1248	1-208-863-81 s	RES, CHIP 100 (1005)
R1249	1-208-863-81 s	RES, CHIP 100 (1005)
R1251	1-208-895-81 s	RES, CHIP 2.2K (1005)
R1252	1-208-899-81 s	RES, CHIP 3.3K (1005)
R1253	1-208-923-81 s	RES, CHIP 33K (1005)
R1254	1-208-923-81 s	RES, CHIP 33K (1005)
R1255	1-208-919-81 s	RES, CHIP 22K (1005)
R1256	1-208-927-81 s	RES, CHIP 47K (1005)
R1257	1-208-919-81 s	RES, CHIP 22K (1005)
R1258	1-208-911-81 s	RES, CHIP 10K (1005)
R1259	1-208-887-81 s	RES, CHIP 1.0K (1005)
R1260	1-208-911-81 s	RES, CHIP 10K (1005)
R1261	1-208-911-81 s	RES, CHIP 10K (1005)
R1262	1-208-887-81 s	RES, CHIP 1.0K (1005)
R1263	1-208-895-81 s	RES, CHIP 2.2K (1005)
R1264	1-208-927-81 s	RES, CHIP 47K (1005)
R1265	1-208-927-81 s	RES, CHIP 47K (1005)
R1266	1-208-895-81 s	RES, CHIP 2.2K (1005)
R1267	1-208-927-81 s	RES, CHIP 47K (1005)
R1268	1-208-883-81 s	RES, CHIP 680 (1005)
R1269	1-208-927-81 s	RES, CHIP 47K (1005)
R1270	1-208-927-81 s	RES, CHIP 47K (1005)
R1271	1-208-927-81 s	RES, CHIP 47K (1005)
R1272	1-208-927-81 s	RES, CHIP 47K (1005)
R1273	1-208-883-81 s	RES, CHIP 680 (1005)
R1274	1-208-927-81 s	RES, CHIP 47K (1005)
R1277	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R1278	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R1280	1-208-895-81 s	RES, CHIP 2.2K (1005)
R1281	1-208-895-81 s	RES, CHIP 2.2K (1005)
R1282	1-208-887-81 s	RES, CHIP 1.0K (1005)
R1283	1-208-903-81 s	RES, CHIP 4.7K (1005)
R1300	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R1301	1-208-943-81 s	RES, CHIP 220K (1005)
R1302	1-208-931-81 s	RES, CHIP 68K (1005)
R1303	1-208-903-81 s	RES, CHIP 4.7K (1005)
R1304	1-220-804-81 s	RES, CHIP 2.2M

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Ref. No. or Q'ty	Part No.	SP Description
R1306	1-208-947-81 s	RES, CHIP 330K (1005)
R1308	1-208-935-81 s	RES, CHIP 100K (1005)
R1310	1-208-935-81 s	RES, CHIP 100K (1005)
R1312	1-208-935-81 s	RES, CHIP 100K (1005)
R1313	1-208-935-81 s	RES, CHIP 100K (1005)
R1317	1-208-903-81 s	RES, CHIP 4.7K (1005)
R1318	1-220-804-81 s	RES, CHIP 2.2M
R1320	1-208-947-81 s	RES, CHIP 330K (1005)
R1322	1-208-935-81 s	RES, CHIP 100K (1005)
R1324	1-208-935-81 s	RES, CHIP 100K (1005)
R1326	1-208-935-81 s	RES, CHIP 100K (1005)
R1327	1-208-935-81 s	RES, CHIP 100K (1005)
R1332	1-208-863-81 s	RES, CHIP 100 (1005)
R1335	1-208-931-81 s	RES, CHIP 68K (1005)
R1336	1-208-911-81 s	RES, CHIP 10K (1005)
R1337	1-208-895-81 s	RES, CHIP 2.2K (1005)
R1338	1-208-903-81 s	RES, CHIP 4.7K (1005)
R1339	1-208-903-81 s	RES, CHIP 4.7K (1005)
R1341	1-208-911-81 s	RES, CHIP 10K (1005)
R1342	1-208-895-81 s	RES, CHIP 2.2K (1005)
R1343	1-208-911-81 s	RES, CHIP 10K (1005)
R1344	1-208-919-81 s	RES, CHIP 22K (1005)
R1345	1-208-911-81 s	RES, CHIP 10K (1005)
R1346	1-208-911-81 s	RES, CHIP 10K (1005)
R1347	1-208-863-81 s	RES, CHIP 100 (1005)
R1348	1-208-895-81 s	RES, CHIP 2.2K (1005)
R1349	1-208-919-81 s	RES, CHIP 22K (1005)
R1400	1-218-602-91 s	METAL FILM (CHIP) 1
R1401	1-208-927-81 s	RES, CHIP 47K (1005)
R1402	1-208-911-81 s	RES, CHIP 10K (1005)
R1403	1-208-935-81 s	RES, CHIP 100K (1005)
R1404	1-208-935-81 s	RES, CHIP 100K (1005)
R1405	1-208-939-81 s	RES, CHIP 150K (1005)
R1406	1-208-939-81 s	RES, CHIP 150K (1005)
R1407	1-208-923-81 s	RES, CHIP 33K (1005)
R1408	1-208-923-81 s	RES, CHIP 33K (1005)
R1409	1-208-923-81 s	RES, CHIP 33K (1005)
R1410	1-208-935-81 s	RES, CHIP 100K (1005)
R1411	1-208-935-81 s	RES, CHIP 100K (1005)
R1412	1-208-935-81 s	RES, CHIP 100K (1005)
R1413	1-208-935-81 s	RES, CHIP 100K (1005)
RB1	1-234-381-21 s	RES, NETWORK 100K (1005X4)
RB250	1-234-371-21 s	RES, NETWORK 47 (1005X4)
RB251	1-234-371-21 s	RES, NETWORK 47 (1005X4)
RB252	1-234-371-21 s	RES, NETWORK 47 (1005X4)
RB253	1-234-371-21 s	RES, NETWORK 47 (1005X4)
RB254	1-234-371-21 s	RES, NETWORK 47 (1005X4)
RB255	1-234-371-21 s	RES, NETWORK 47 (1005X4)
RB400	1-242-963-21 s	RES, NETWORK 33 (1005X4)
RB401	1-242-963-21 s	RES, NETWORK 33 (1005X4)
RB402	1-242-963-21 s	RES, NETWORK 33 (1005X4)
RB403	1-242-963-21 s	RES, NETWORK 33 (1005X4)
RB404	1-242-963-21 s	RES, NETWORK 33 (1005X4)
RB405	1-242-963-21 s	RES, NETWORK 33 (1005X4)
RB406	1-242-963-21 s	RES, NETWORK 33 (1005X4)
RB407	1-242-963-21 s	RES, NETWORK 33 (1005X4)
RB408	1-234-371-21 s	RES, NETWORK 47 (1005X4)
RB409	1-234-375-21 s	RES, NETWORK 1K (1005X4)

(PR-326 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
RB566	1-234-378-21	s RES,	NETWORK 10K (1005X4)
RB567	1-234-378-21	s RES,	NETWORK 10K (1005X4)
RB568	1-234-378-21	s RES,	NETWORK 10K (1005X4)
RB569	1-234-378-21	s RES,	NETWORK 10K (1005X4)
RB570	1-234-378-21	s RES,	NETWORK 10K (1005X4)
RB571	1-234-378-21	s RES,	NETWORK 10K (1005X4)
RB600	1-234-372-21	s RES,	NETWORK 100 (1005X4)
RB601	1-234-372-21	s RES,	NETWORK 100 (1005X4)
RB602	1-234-372-21	s RES,	NETWORK 100 (1005X4)
RB603	1-234-372-21	s RES,	NETWORK 100 (1005X4)
RB604	1-234-372-21	s RES,	NETWORK 100 (1005X4)
RB605	1-234-372-21	s RES,	NETWORK 100 (1005X4)
RB606	1-234-372-21	s RES,	NETWORK 100 (1005X4)
RB607	1-234-372-21	s RES,	NETWORK 100 (1005X4)
RB608	1-234-370-21	s RES,	NETWORK 22 (1005X4)
RB609	1-234-370-21	s RES,	NETWORK 22 (1005X4)
RB610	1-234-370-21	s RES,	NETWORK 22 (1005X4)
RB611	1-234-370-21	s RES,	NETWORK 22 (1005X4)
RB612	1-234-370-21	s RES,	NETWORK 22 (1005X4)
RB613	1-234-370-21	s RES,	NETWORK 22 (1005X4)
RB614	1-234-370-21	s RES,	NETWORK 22 (1005X4)
RB615	1-234-370-21	s RES,	NETWORK 22 (1005X4)
RB616	1-234-372-21	s RES,	NETWORK 100 (1005X4)
RB617	1-234-372-21	s RES,	NETWORK 100 (1005X4)
RB618	1-234-372-21	s RES,	NETWORK 100 (1005X4)
RB619	1-234-372-21	s RES,	NETWORK 100 (1005X4)
RB620	1-234-372-21	s RES,	NETWORK 100 (1005X4)
RB621	1-234-372-21	s RES,	NETWORK 100 (1005X4)
RB622	1-234-372-21	s RES,	NETWORK 100 (1005X4)
RB623	1-234-372-21	s RES,	NETWORK 100 (1005X4)
RB630	1-234-370-21	s RES,	NETWORK 22 (1005X4)
RB631	1-234-370-21	s RES,	NETWORK 22 (1005X4)
RB632	1-234-370-21	s RES,	NETWORK 22 (1005X4)
RB633	1-234-372-21	s RES,	NETWORK 100 (1005X4)
RB634	1-234-372-21	s RES,	NETWORK 100 (1005X4)
RB635	1-234-372-21	s RES,	NETWORK 100 (1005X4)
RB800	1-234-378-21	s RES,	NETWORK 10K (1005X4)
RB801	1-234-378-21	s RES,	NETWORK 10K (1005X4)
RB802	1-234-378-21	s RES,	NETWORK 10K (1005X4)
RB803	1-234-378-21	s RES,	NETWORK 10K (1005X4)
RB804	1-234-378-21	s RES,	NETWORK 10K (1005X4)
RB805	1-234-378-21	s RES,	NETWORK 10K (1005X4)
RB806	1-234-378-21	s RES,	NETWORK 10K (1005X4)
RB807	1-234-378-21	s RES,	NETWORK 10K (1005X4)
RB808	1-234-378-21	s RES,	NETWORK 10K (1005X4)
RB809	1-234-381-21	s RES,	NETWORK 100K (1005X4)
RB810	1-234-372-21	s RES,	NETWORK 100 (1005X4)
RB811	1-234-372-21	s RES,	NETWORK 100 (1005X4)
RB812	1-234-381-21	s RES,	NETWORK 100K (1005X4)
RB813	1-234-381-21	s RES,	NETWORK 100K (1005X4)
RB814	1-234-372-21	s RES,	NETWORK 100 (1005X4)
RB815	1-234-372-21	s RES,	NETWORK 100 (1005X4)
RB816	1-234-372-21	s RES,	NETWORK 100 (1005X4)
RB817	1-234-381-21	s RES,	NETWORK 100K (1005X4)
RB818	1-234-381-21	s RES,	NETWORK 100K (1005X4)
RB819	1-234-370-21	s RES,	NETWORK 22 (1005X4)
RB820	1-234-370-21	s RES,	NETWORK 22 (1005X4)
S300	1-771-721-21	s SWITCH,	TACTILE

(PR-326 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
S400	1-692-271-41	s SWITCH, SLIDE
S800	1-692-271-41	s SWITCH, SLIDE
TP100	1-535-757-21	s CHIP, CHECKER
TP130	1-535-757-21	s CHIP, CHECKER
TP160	1-535-757-21	s CHIP, CHECKER
TP201	1-535-757-21	s CHIP, CHECKER
TP202	1-535-757-21	s CHIP, CHECKER
TP203	1-535-757-21	s CHIP, CHECKER
TP204	1-535-757-21	s CHIP, CHECKER
TP400	1-535-757-21	s CHIP, CHECKER
TP450	1-535-757-21	s CHIP, CHECKER
TP500	1-535-757-21	s CHIP, CHECKER
TP1300	1-535-757-21	s CHIP, CHECKER
X250	1-813-826-21	s VIBRATOR, CRYSTAL (28.63636 MHz)
X300	1-814-021-11	s OSCILLATOR, CRYSTAL (74.250MHZ)

SW-1494 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1784-175-A	s MOUNTED CIRCUIT BOARD, SW-1494
C2	1-100-916-11	s CAP, CERAMIC 0.1MF X7R 1005
C3	1-100-916-11	s CAP, CERAMIC 0.1MF X7R 1005
C4	1-100-916-11	s CAP, CERAMIC 0.1MF X7R 1005
C5	1-100-916-11	s CAP, CERAMIC 0.1MF X7R 1005
C6	1-100-916-11	s CAP, CERAMIC 0.1MF X7R 1005
C7	1-100-916-11	s CAP, CERAMIC 0.1MF X7R 1005
C9	1-100-916-11	s CAP, CERAMIC 0.1MF X7R 1005
C10	1-100-916-11	s CAP, CERAMIC 0.1MF X7R 1005
C11	1-100-916-11	s CAP, CERAMIC 0.1MF X7R 1005
CN1	1-793-027-21	s CONNECTOR 14P
CN3	1-785-946-21	s CONNECTOR 3P
CN4	1-779-884-21	s CONNECTOR 4P
EN1	1-487-191-11	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)
R8	1-208-863-81	s RES, CHIP 100 (1005)
S2	1-786-157-51	s TACTILE SWITCH

SW-1495 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1784-176-A	s MOUNTED CIRCUIT BOARD, SW-1495
C1	1-100-916-11	s CAP, CERAMIC 0.1MF X7R 1005
C2	1-100-916-11	s CAP, CERAMIC 0.1MF X7R 1005
CN1	1-770-620-21	s PIN, CONNECTOR 3P
R1	1-208-863-81	s RES, CHIP 100 (1005)
R2	1-208-863-81	s RES, CHIP 100 (1005)
S1	1-786-157-51	s TACTILE SWITCH
S2	1-786-157-51	s TACTILE SWITCH

SW-1496 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1784-177-A	s MOUNTED CIRCUIT BOARD, SW-1496
C1	1-100-916-11	s CAP, CERAMIC 0.1MF X7R 1005
C2	1-100-916-11	s CAP, CERAMIC 0.1MF X7R 1005
CN2	1-770-621-21	s PIN, CONNECTOR 4P
R1	1-208-863-81	s RES, CHIP 100 (1005)
R2	1-208-863-81	s RES, CHIP 100 (1005)
S1	1-786-157-51	s TACTILE SWITCH
S2	1-786-157-51	s TACTILE SWITCH

VR-340 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1784-178-A	s MOUNTED CIRCUIT BOARD, VR-340
C1	1-100-916-11	s CAP, CERAMIC 0.1MF X7R 1005
C2	1-100-916-11	s CAP, CERAMIC 0.1MF X7R 1005
C3	1-100-916-11	s CAP, CERAMIC 0.1MF X7R 1005
C4	1-100-916-11	s CAP, CERAMIC 0.1MF X7R 1005
C9	1-112-691-11	s CAP, CERAMIC 22MF R 3225
CN1	1-770-623-21	s PIN, CONNECTOR 6P
FB1	1-469-094-21	s FERRITE, EMI (SMD) (1608)
RV1	1-225-566-11	s RES, VAR, CARBON 50K
RV2	1-225-566-11	s RES, VAR, CARBON 50K
RV3	1-225-566-11	s RES, VAR, CARBON 50K

5-4. Supplied Accessories

HDVF-EL70

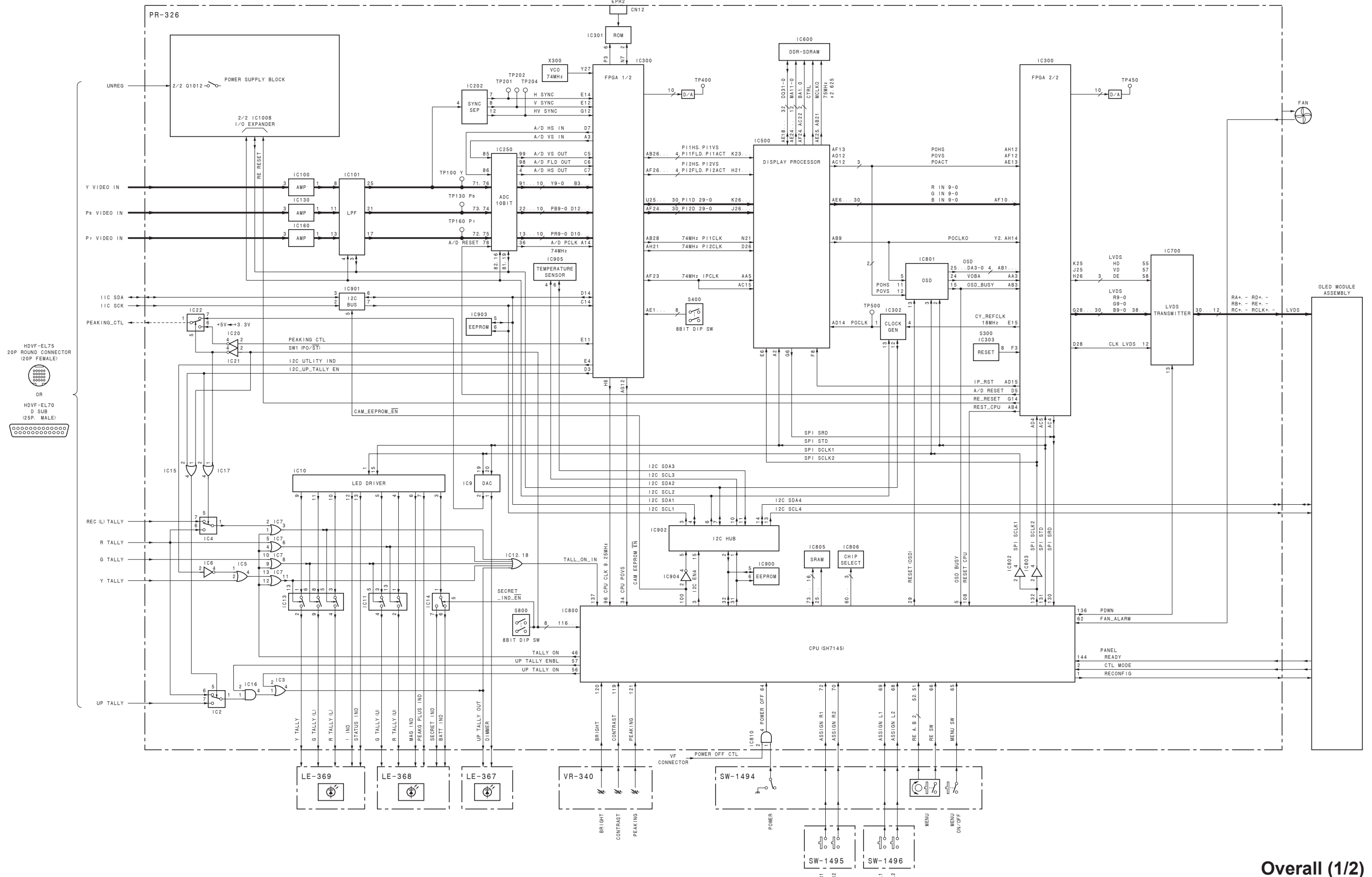
Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1793-995-A	s HOOD ASSY, INDOOR
1pc	X-2025-305-1	s CLOTH ASSY, CLEANING
1pc	4-027-937-03	s PLATE, NUMBER
1pc	4-258-596-01	s OPERATION MANUAL

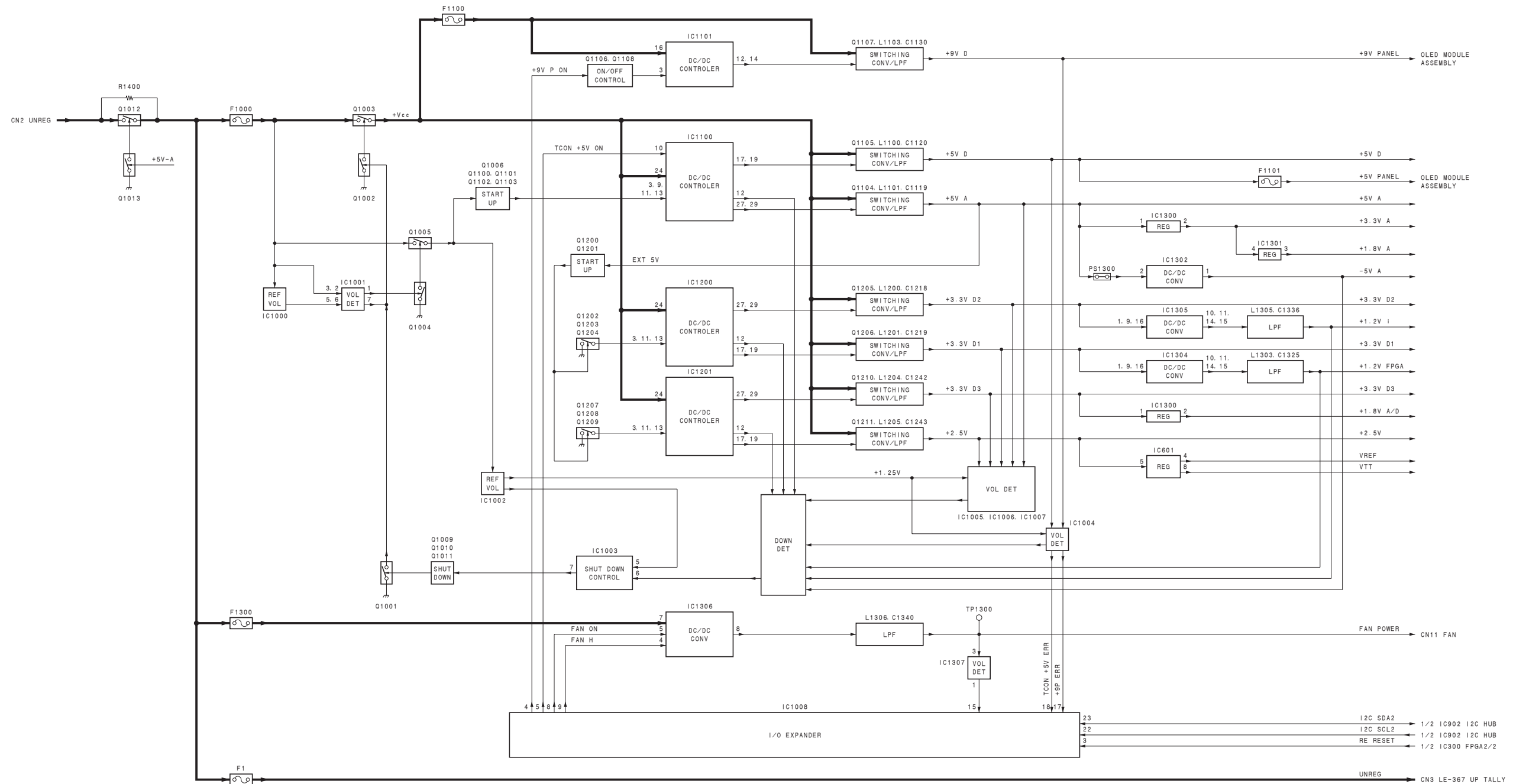
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1pc	A-1793-995-A	s HOOD ASSY, INDOOR
1pc	A-7612-405-F	s SHOE ASSY, V EDGE
1pc	X-2025-305-1	s CLOTH ASSY, CLEANING
1pc	1-838-608-11	s CORD, CONNECTION (VF)
1pc	4-027-937-03	s PLATE, NUMBER
1pc	4-258-602-01	s OPERATION MANUAL
4pcs	7-683-421-04	o BOLT, HEXAGON SOCKET 4X12
1pc	7-721-130-20	s WRENCH, L (3.0MM)

Section 6

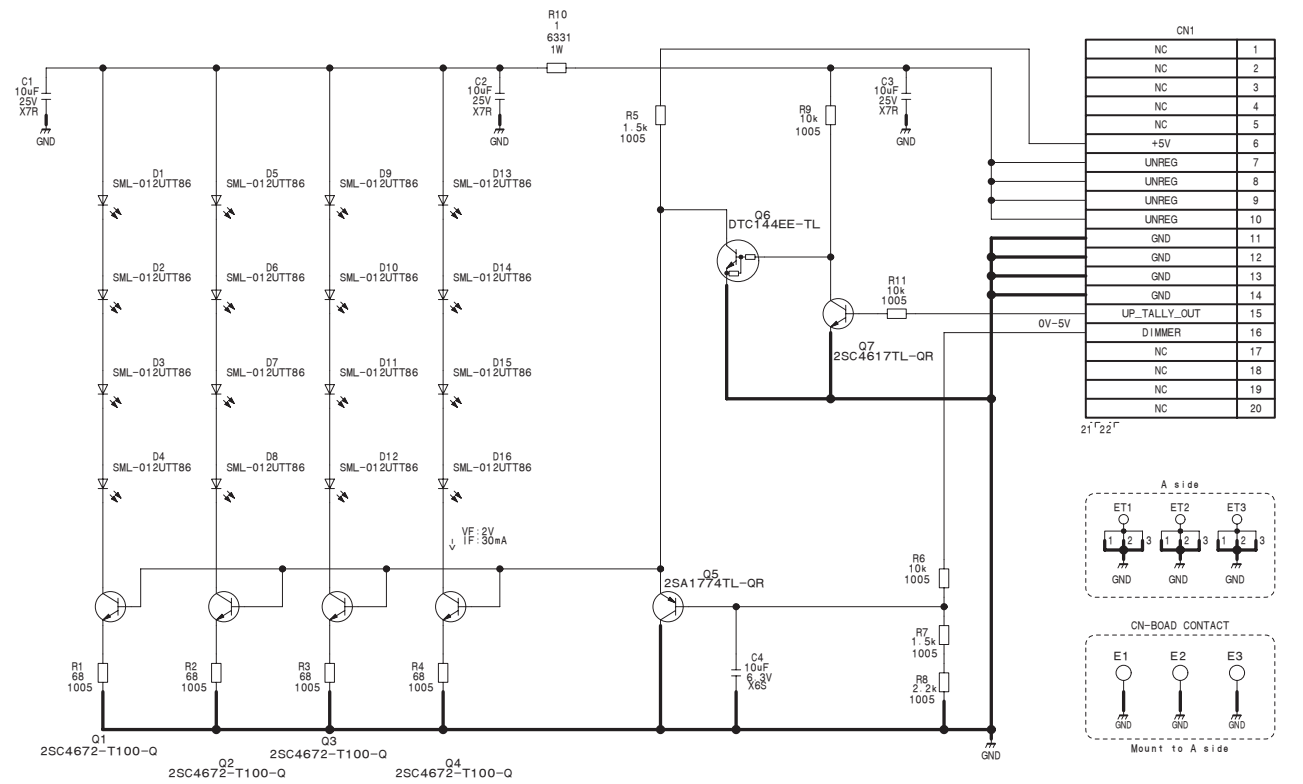
Block Diagrams





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LE-367
BOARD NO. 1-882-769-11
CAX-199_LE-367_011_1

LE-368, LE-369
SUFFIX: -11 SUFFIX: -11

LE-368, LE-369
SUFFIX: -11 SUFFIX: -11

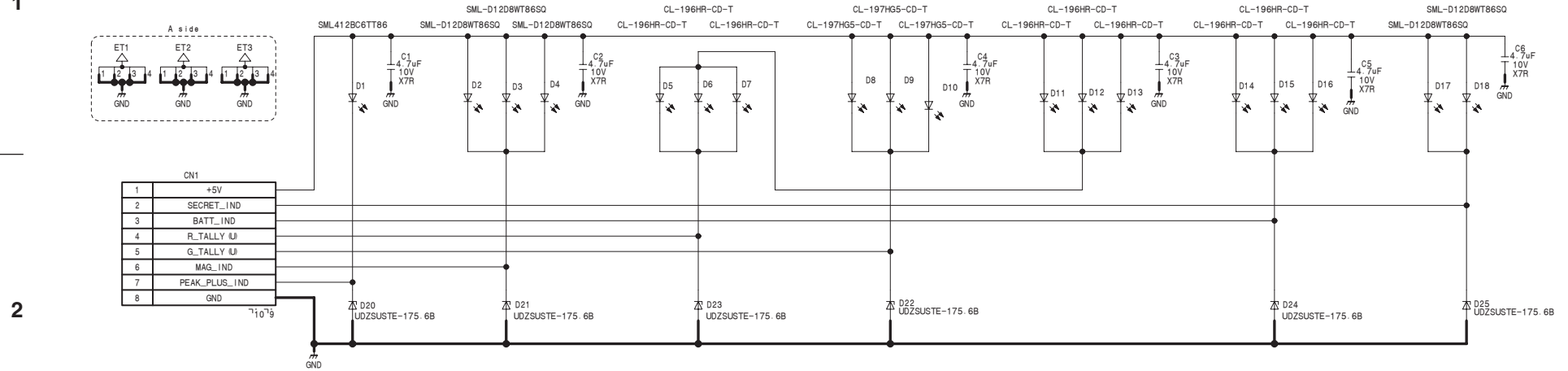
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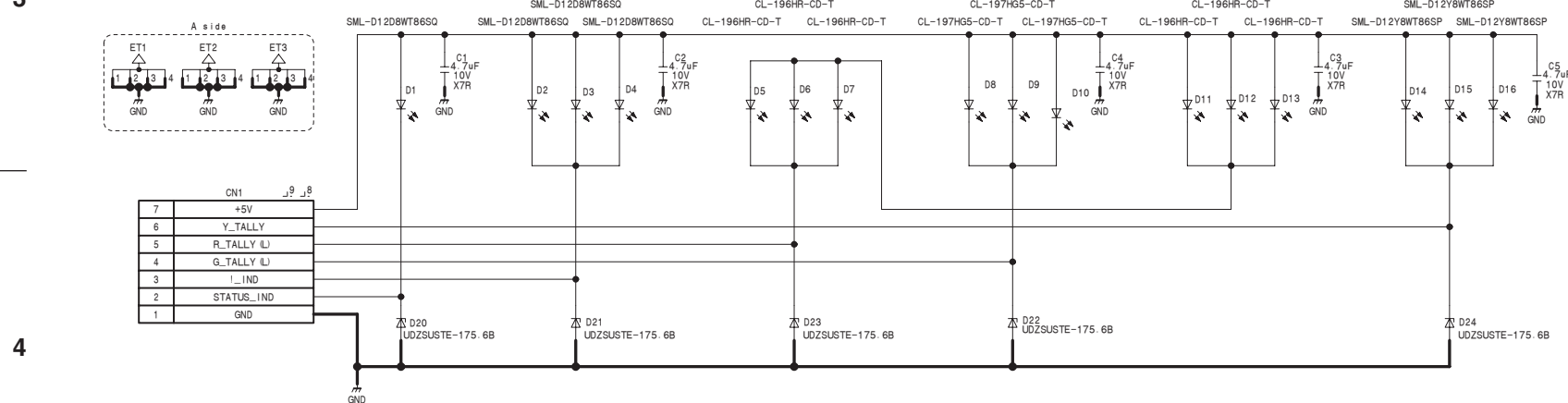
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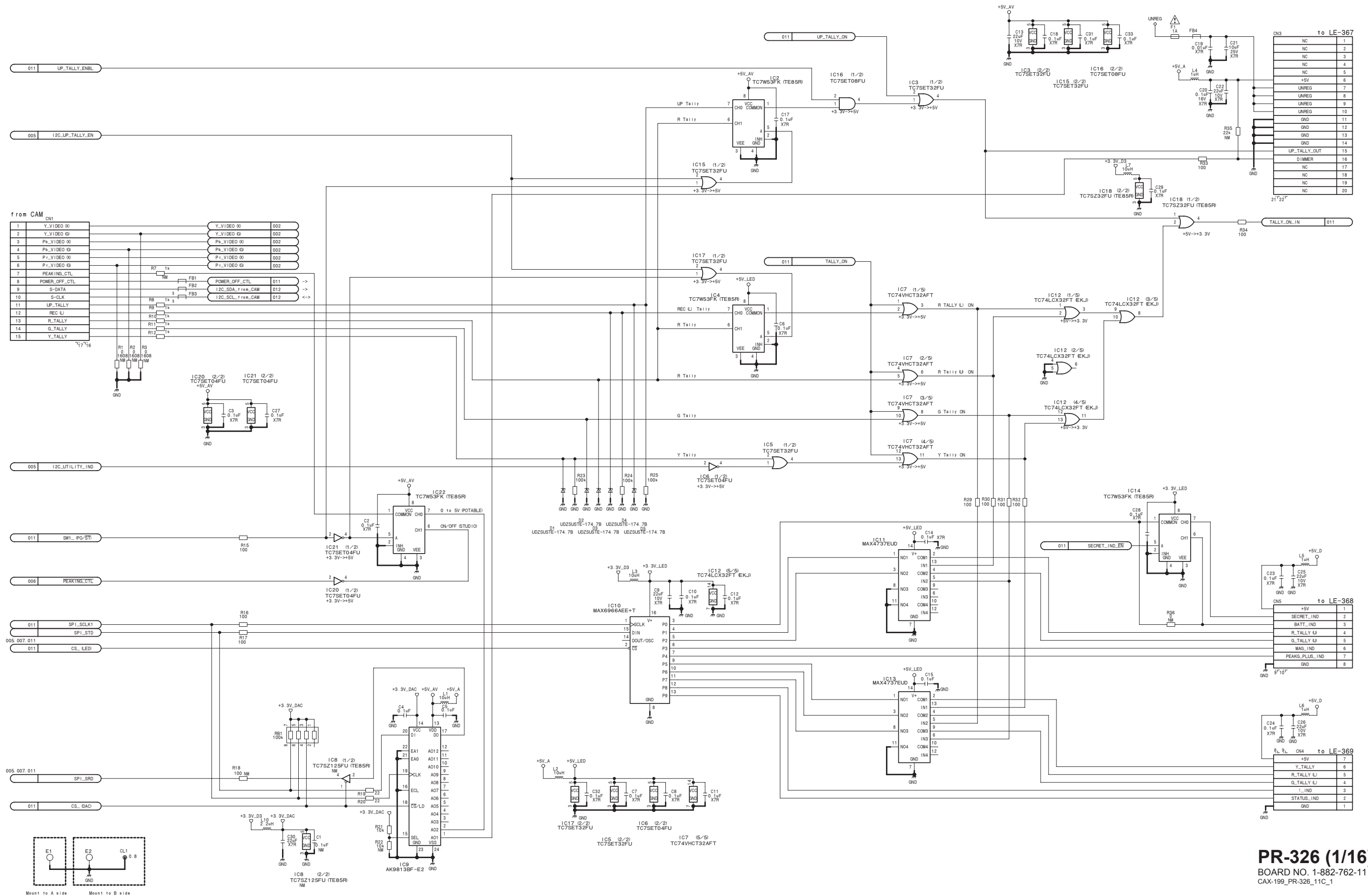
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LE-369

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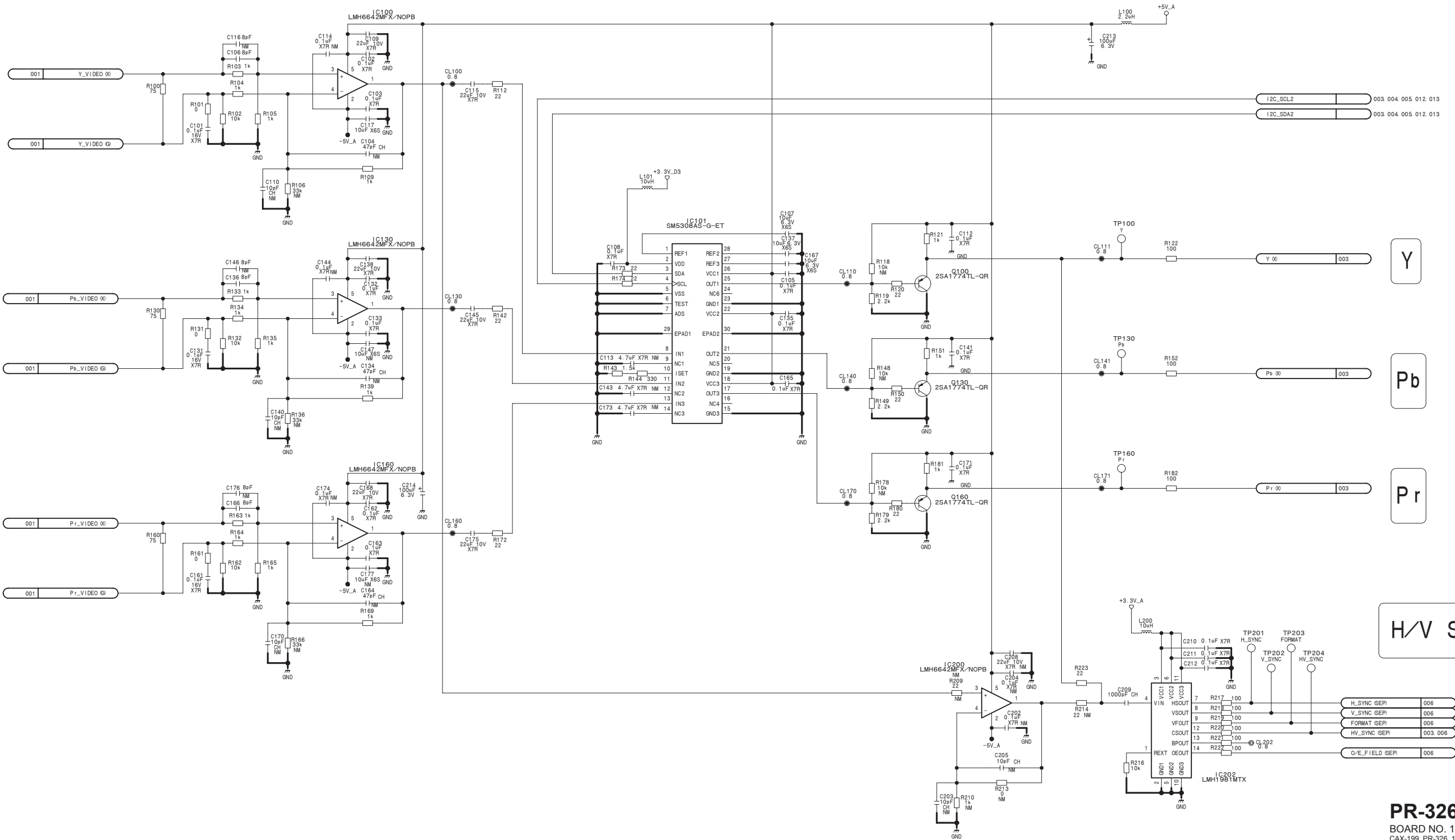
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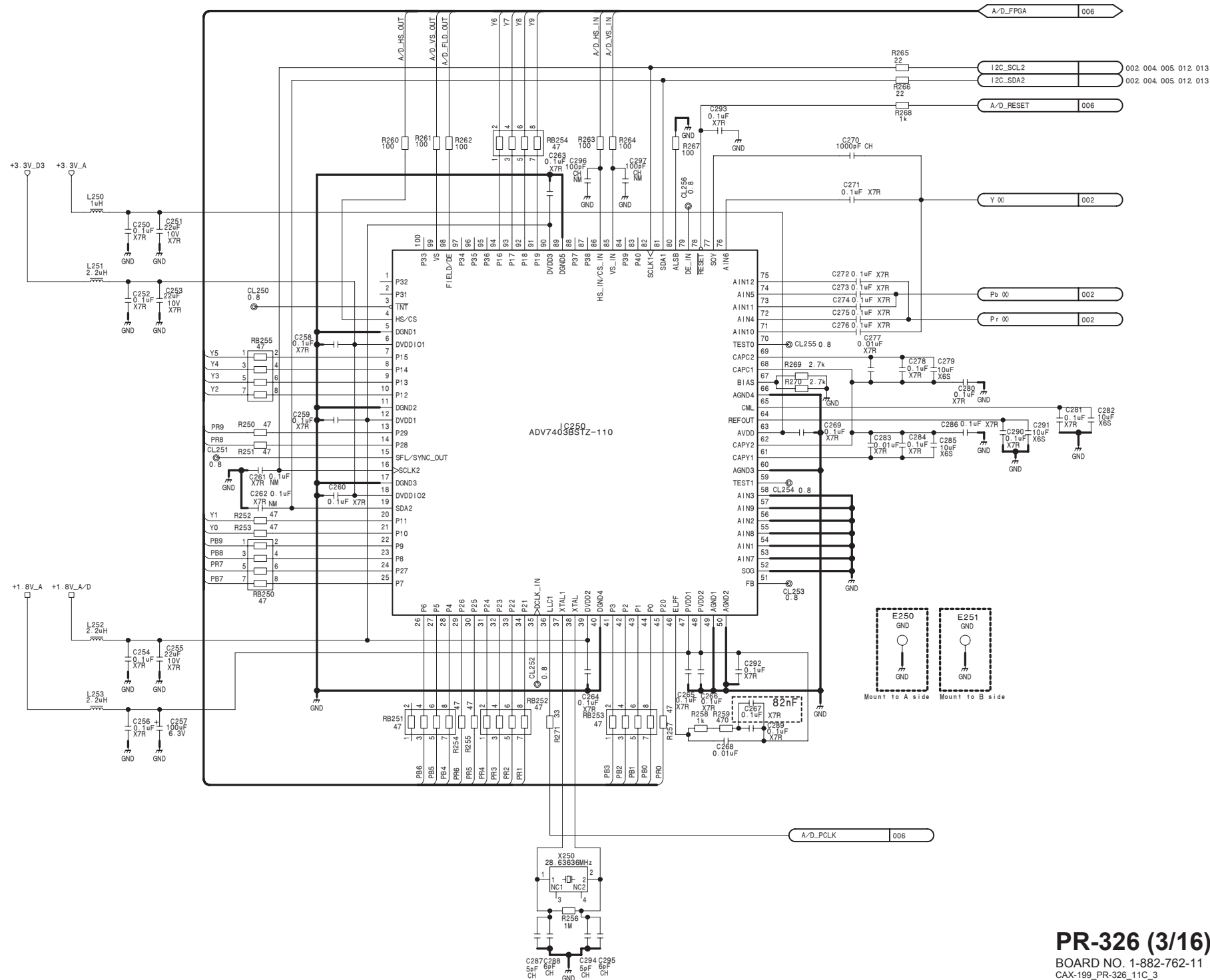
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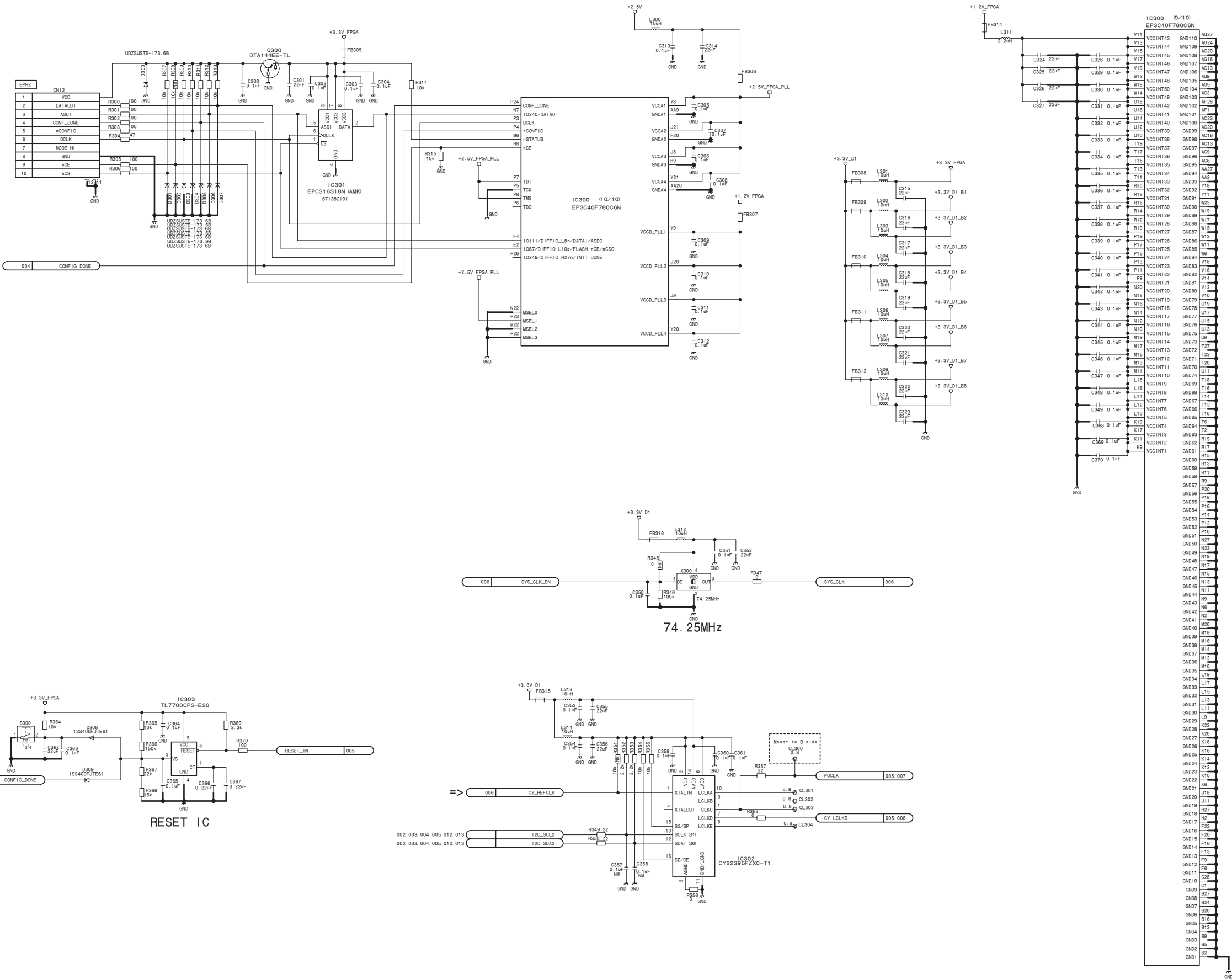
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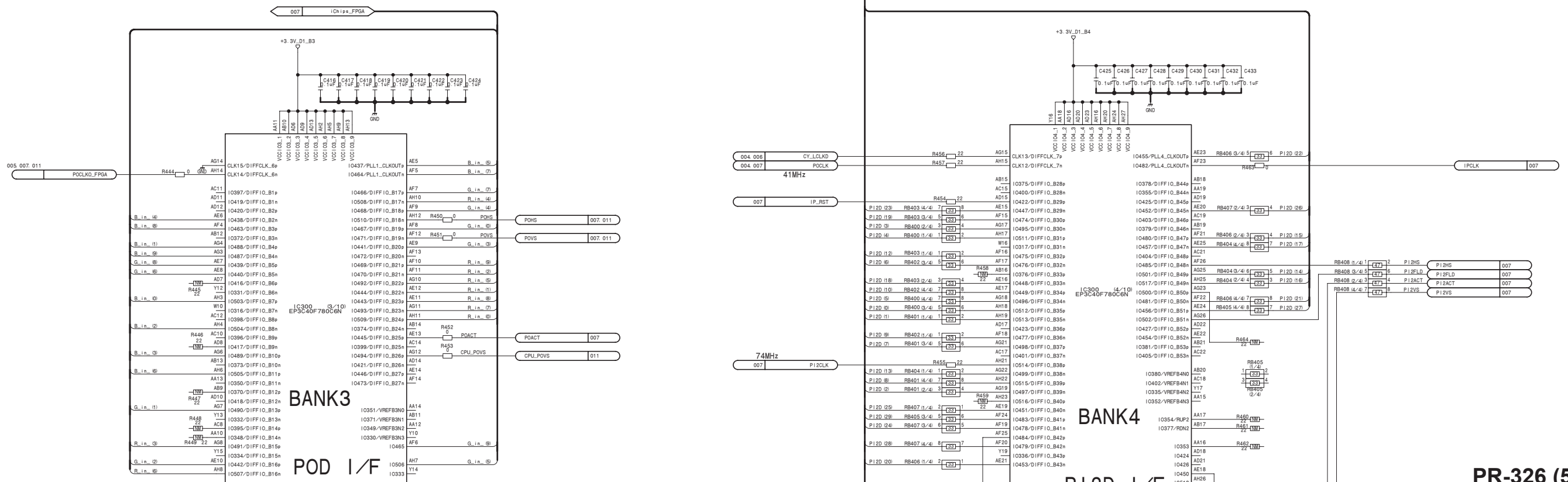
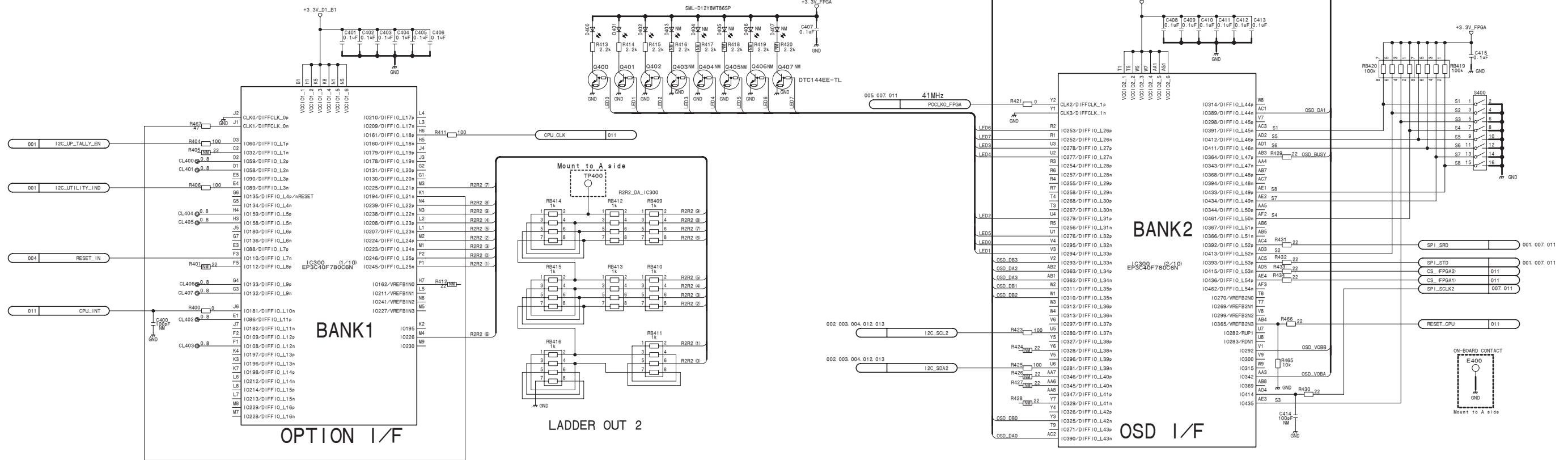




PR-326 (3/16)

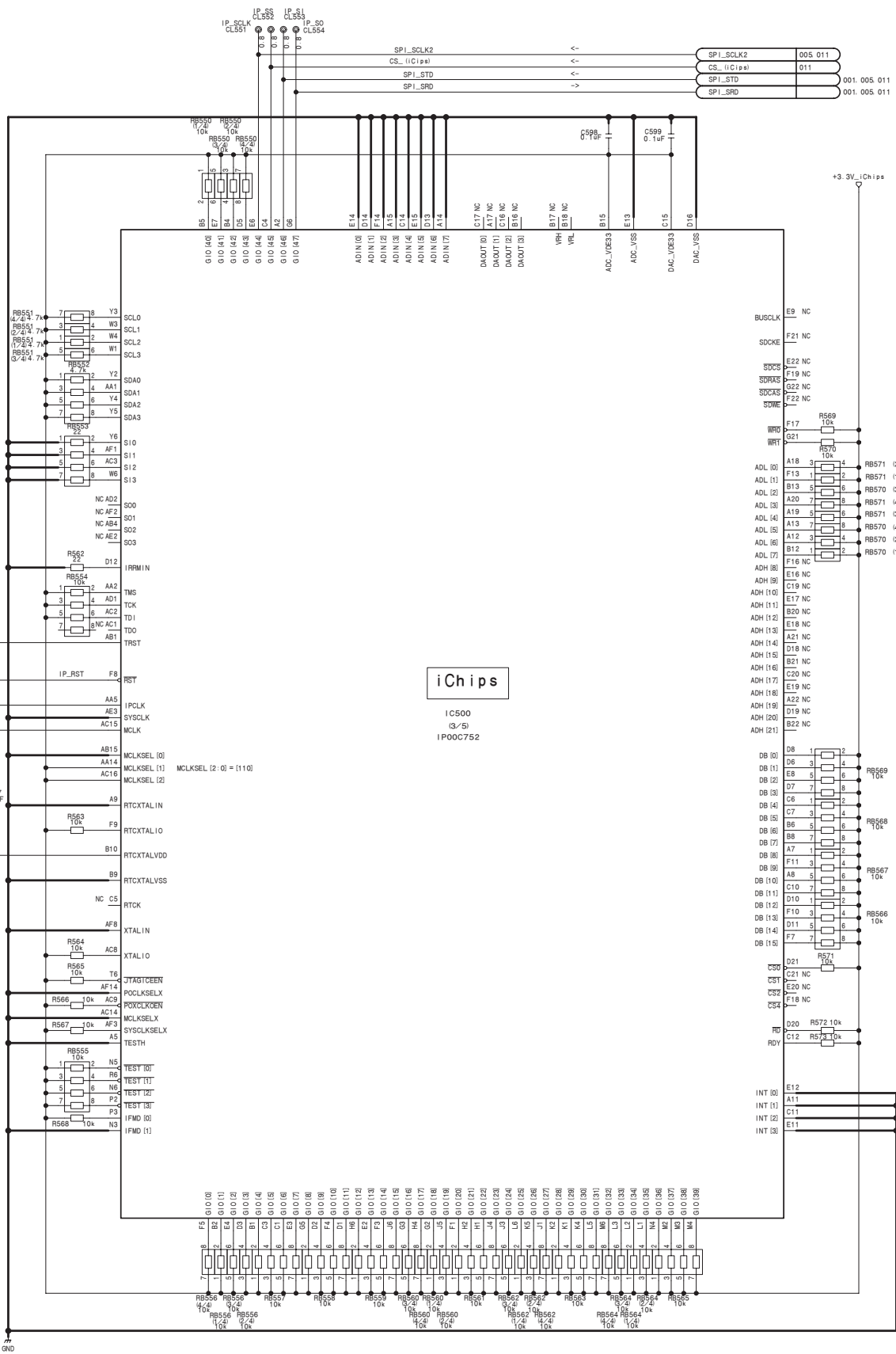
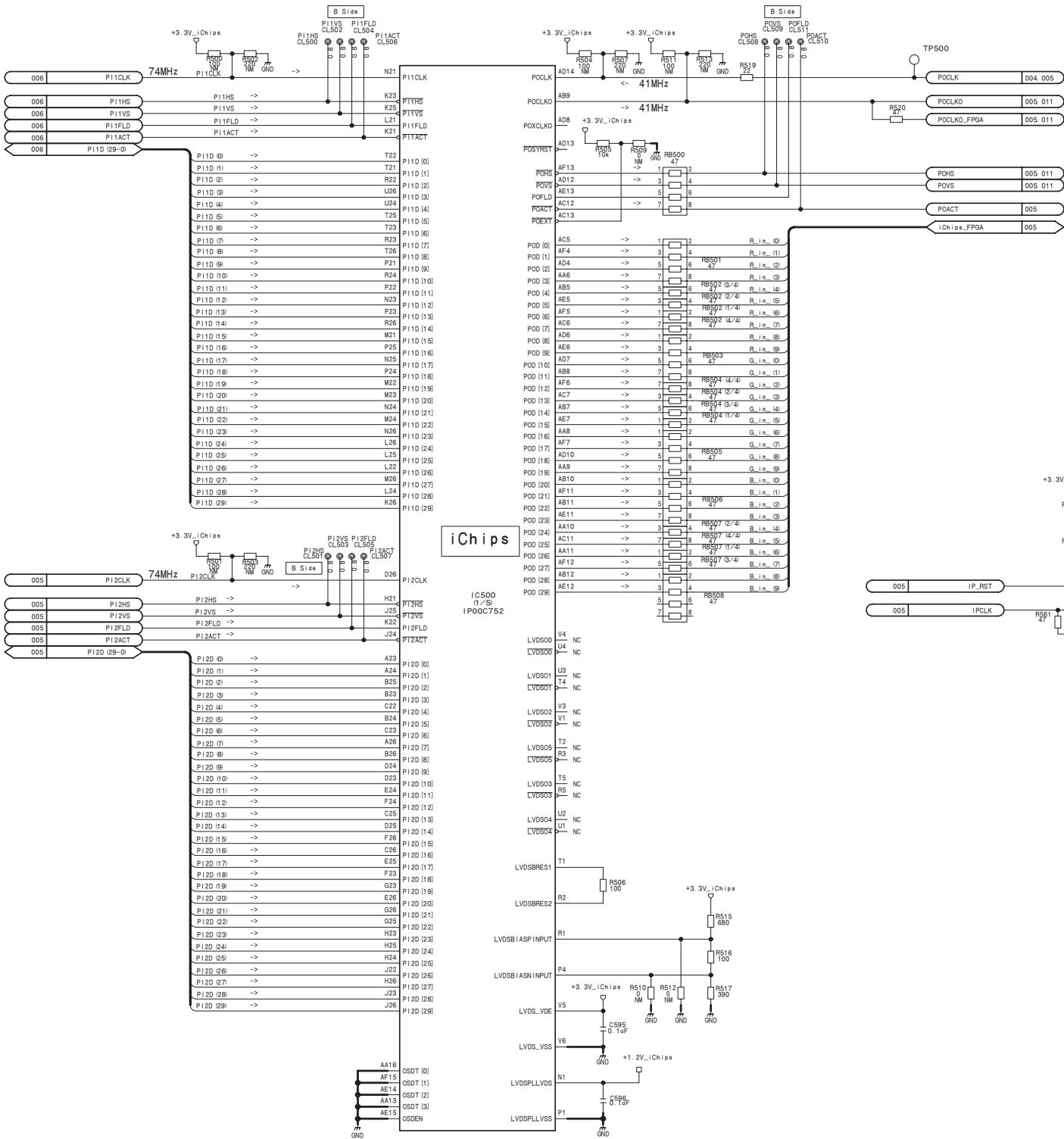
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CAX-199_PR-326_11C_6





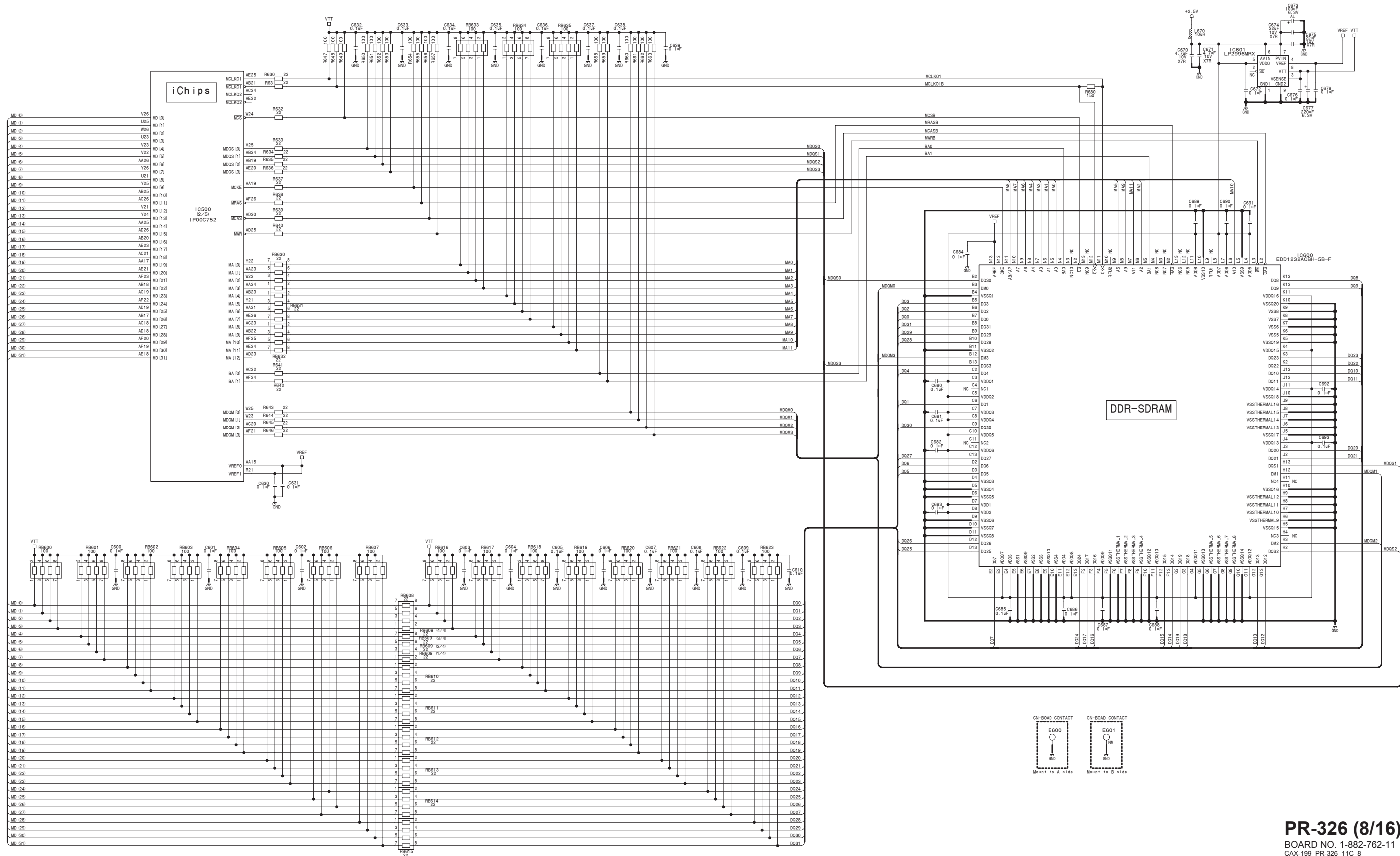
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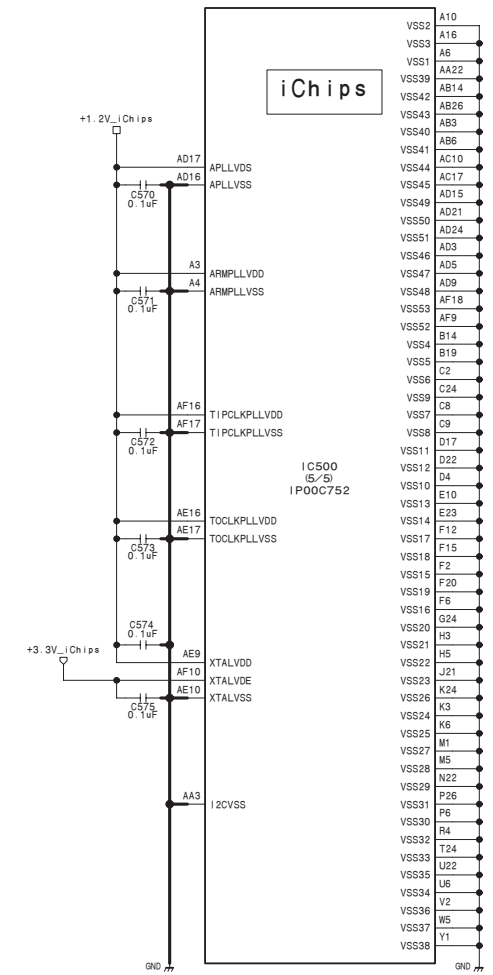
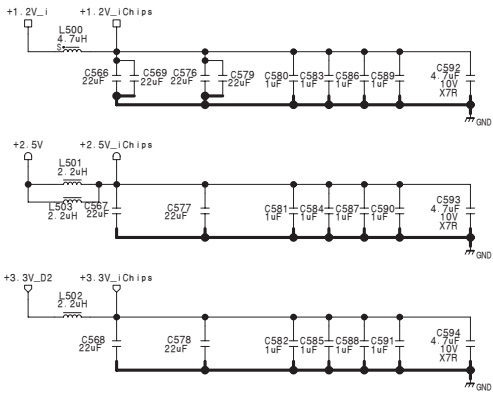
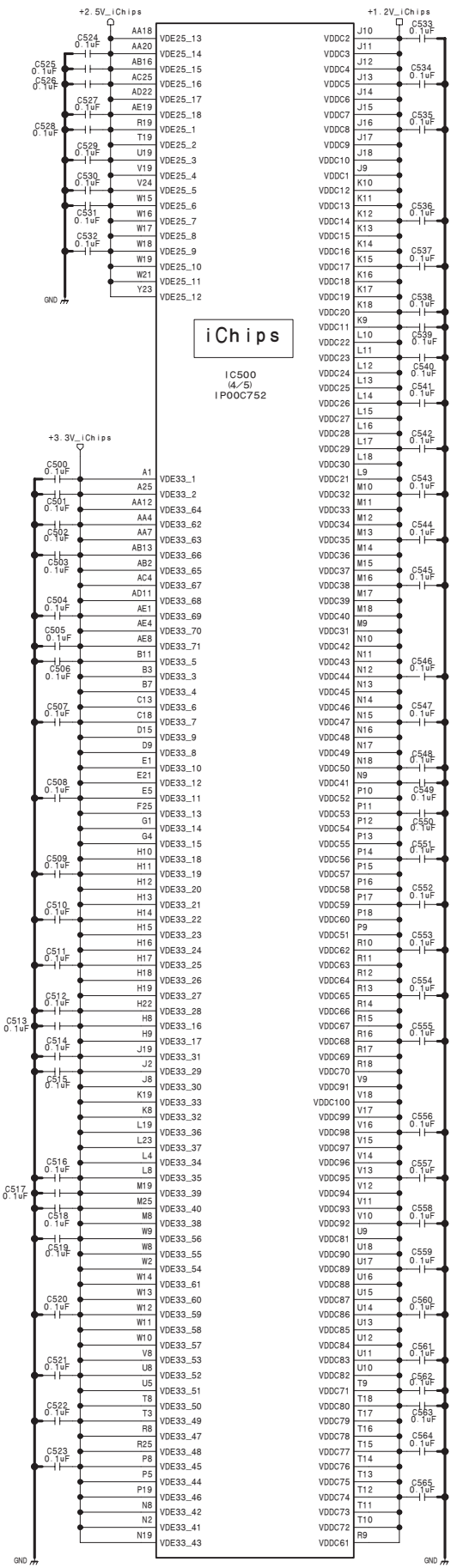
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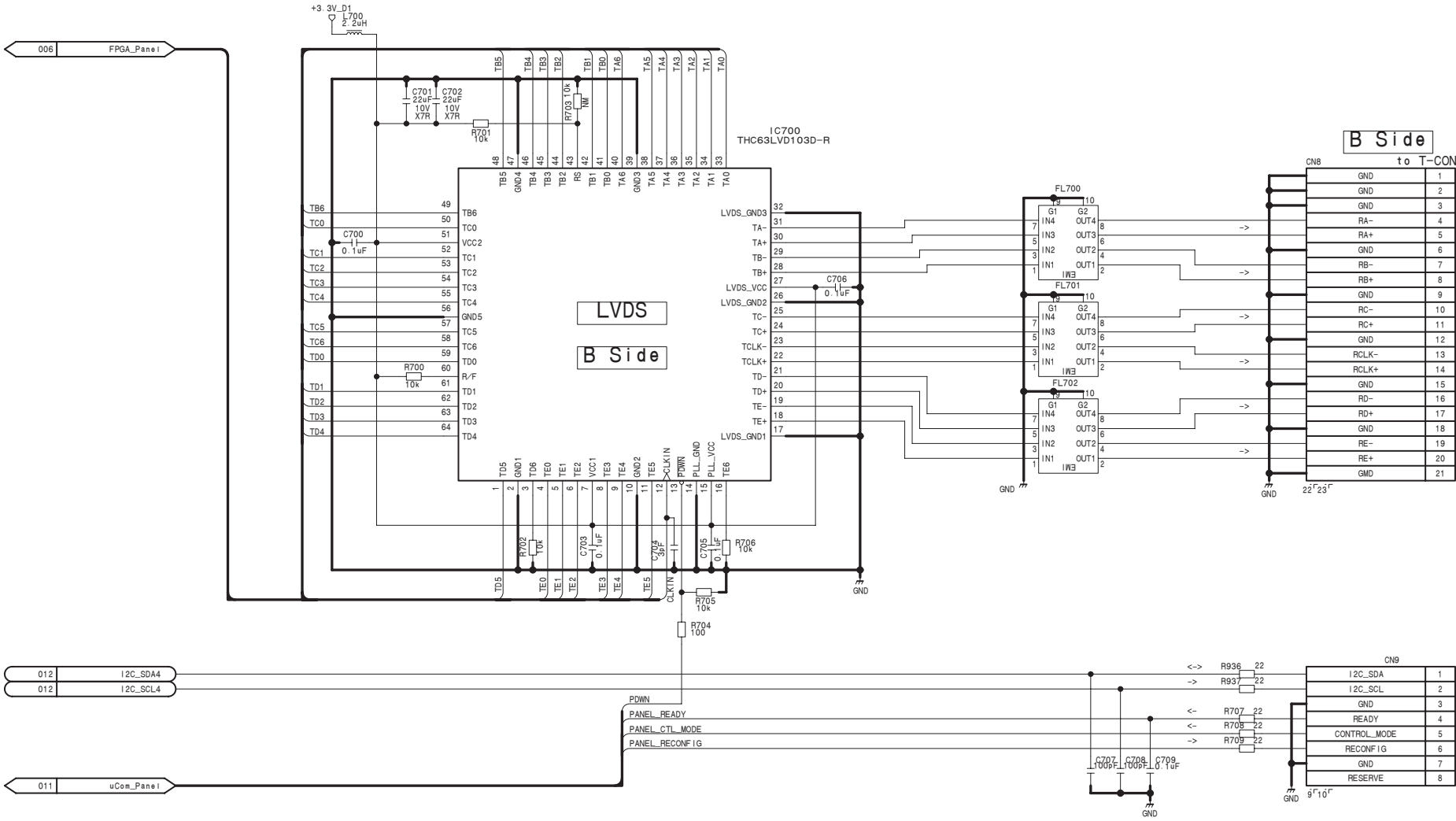
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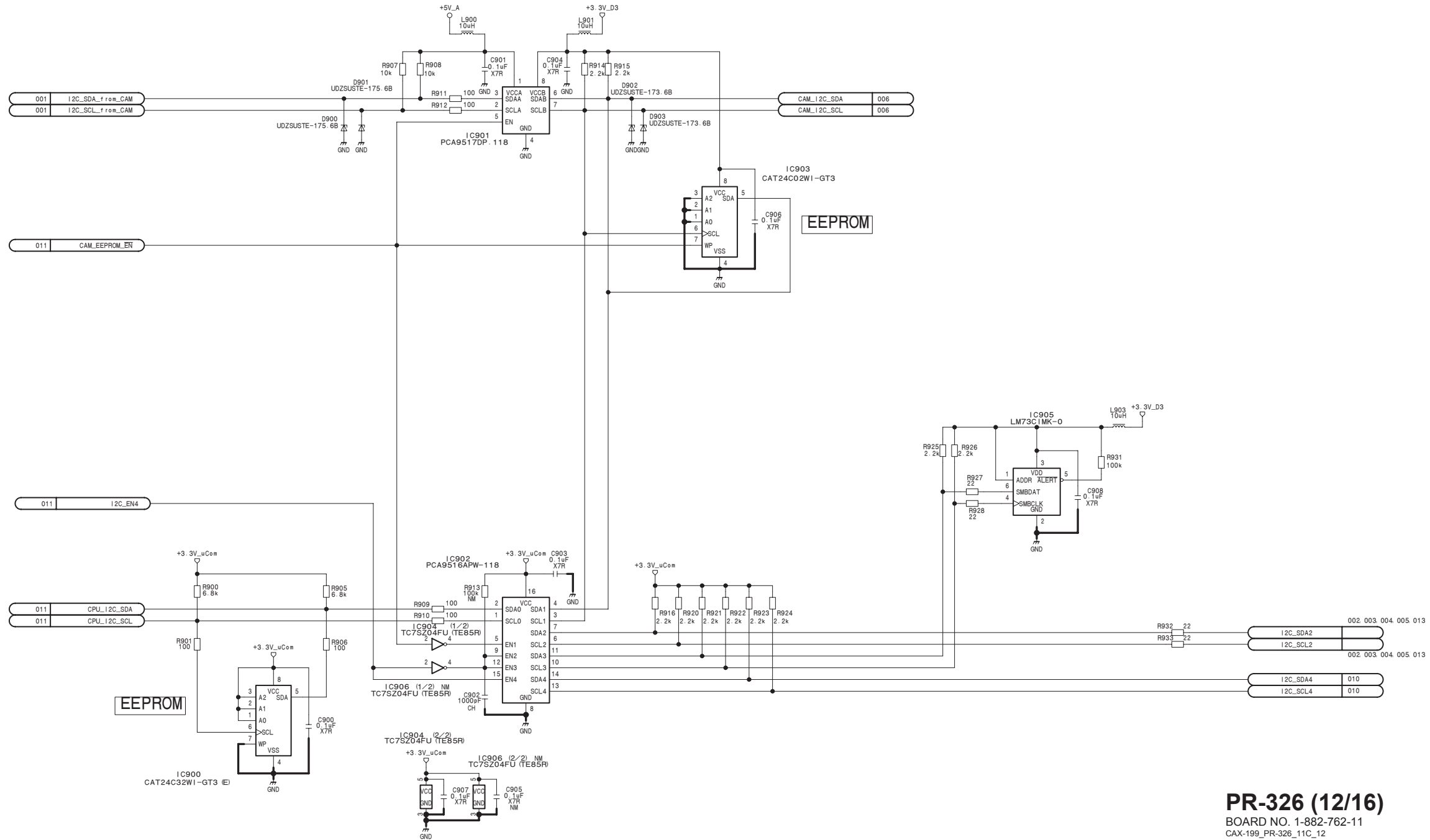
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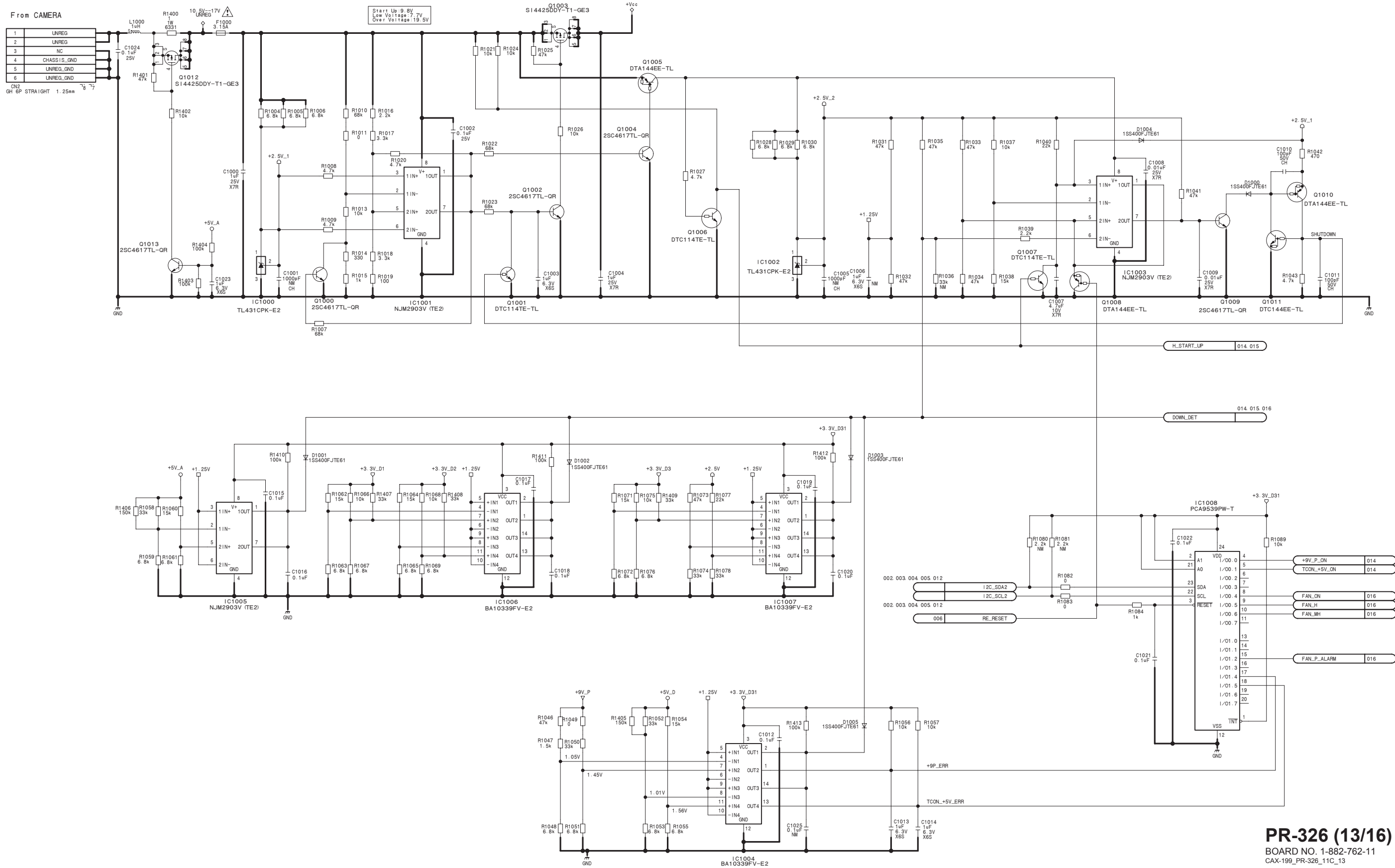
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BOARD NO. 1-882-762-11
CAX-199_PR-326_11C_10





PR-326 (12/16)

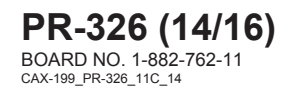
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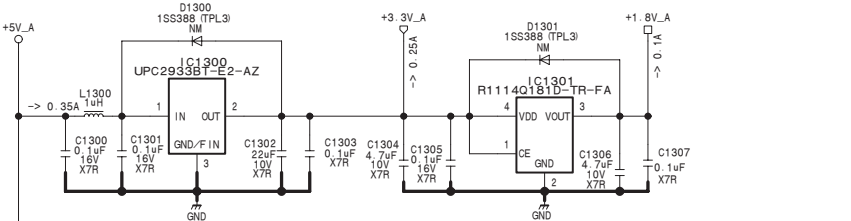
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BOARD NO. 1-882-762-11
CAX-199 PR-326 11C_13

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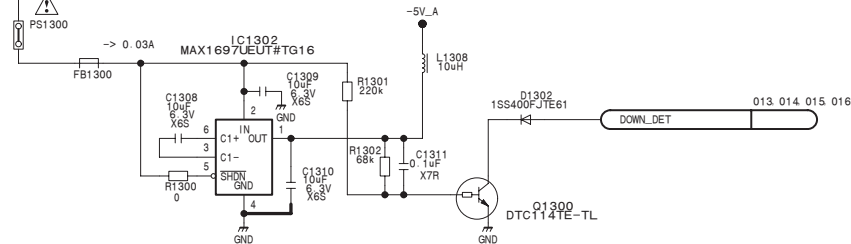
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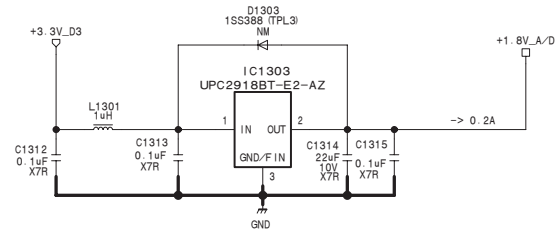
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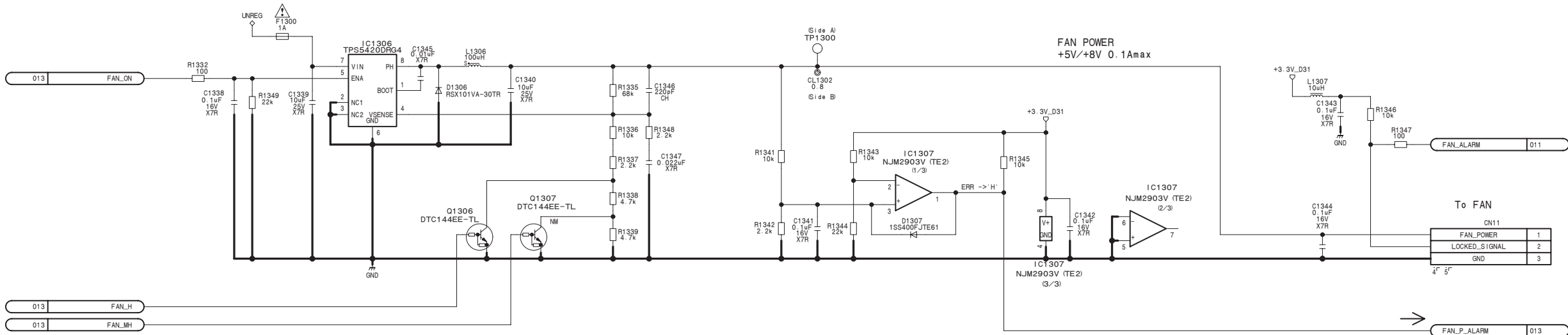
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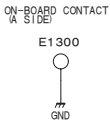
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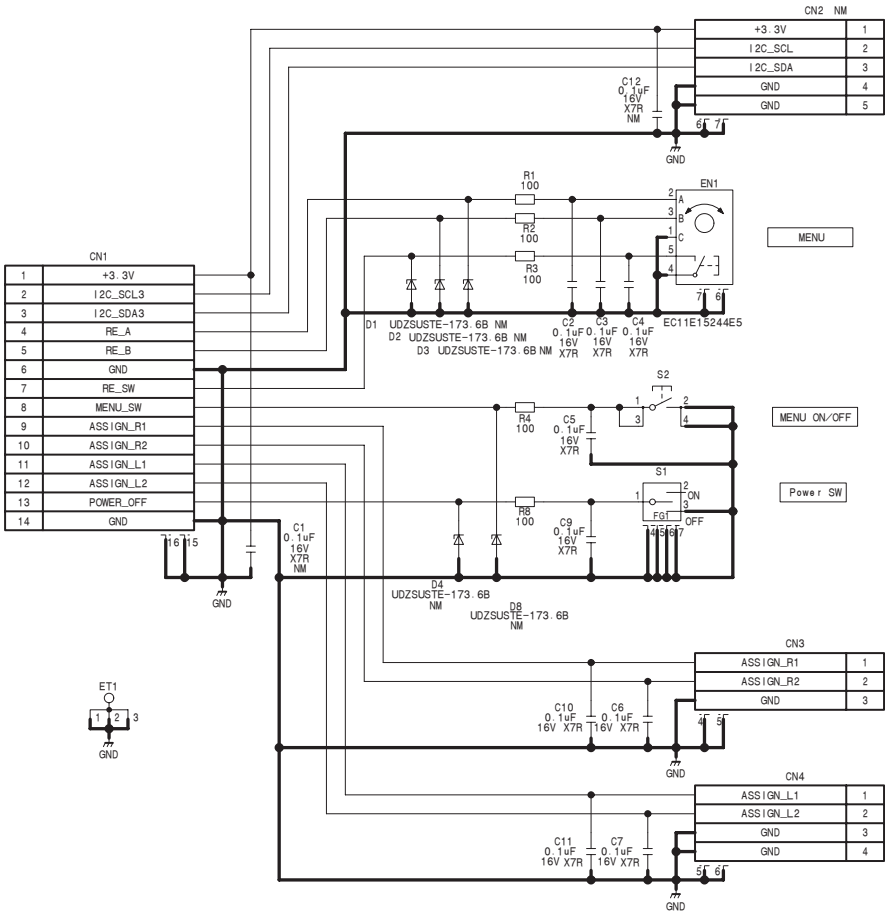
PR-326 (16/16)
BOARD NO. 1-882-762-11
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SW-1494, SW-1495, SW-1496, VR-340

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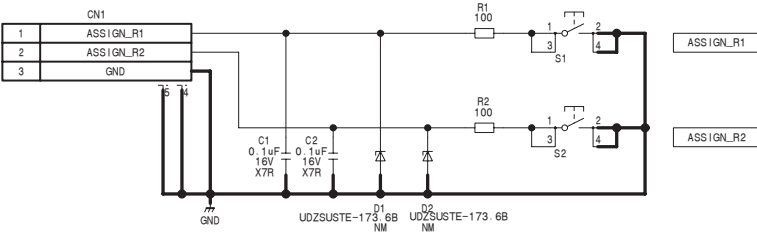
SW-1494, SW-1495, SW-1496, VR-340

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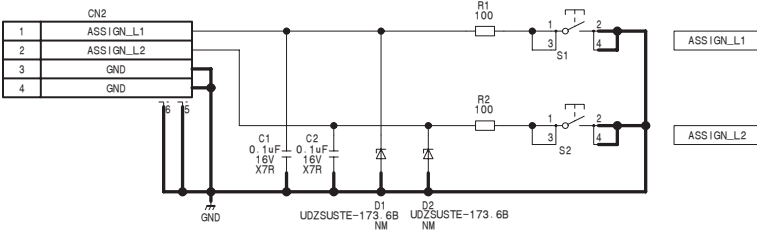
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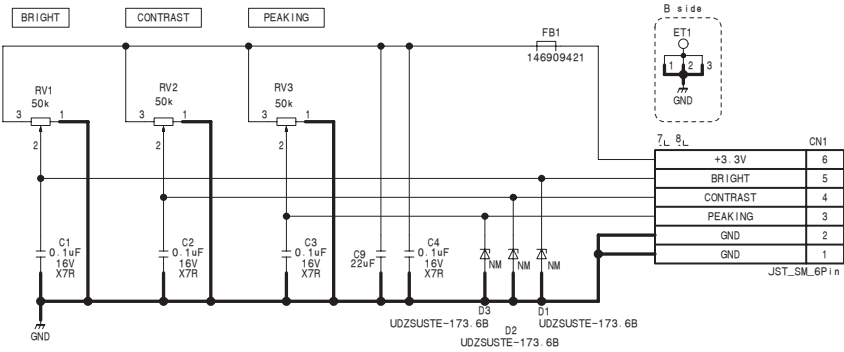
SW-1495

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SW-1496

BOARD NO. 1-882-767-11
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VR-340

BOARD NO. 1-882-768-11
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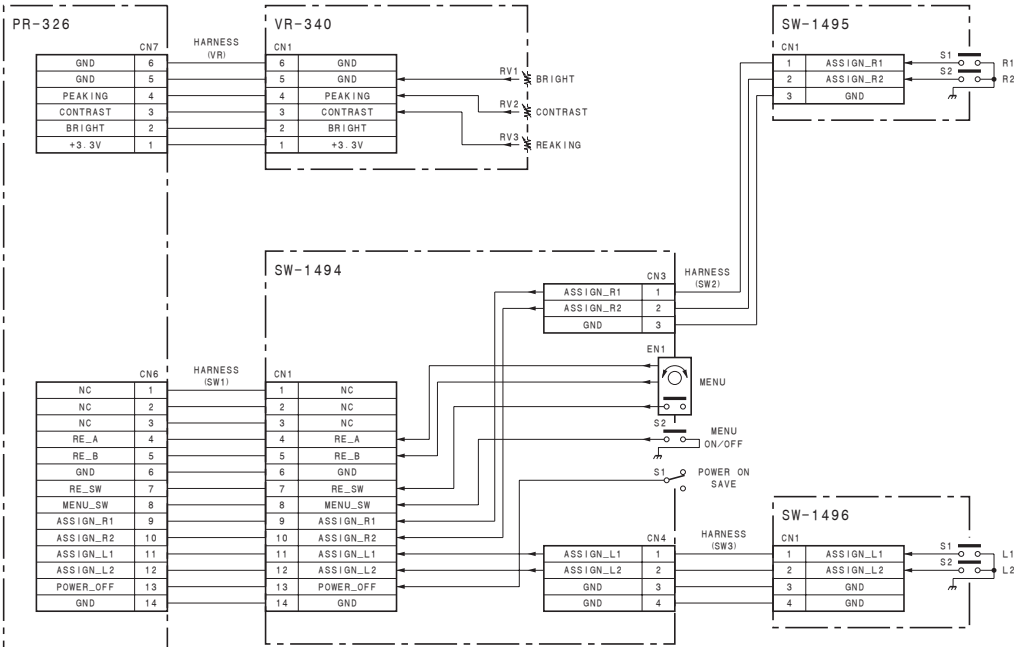
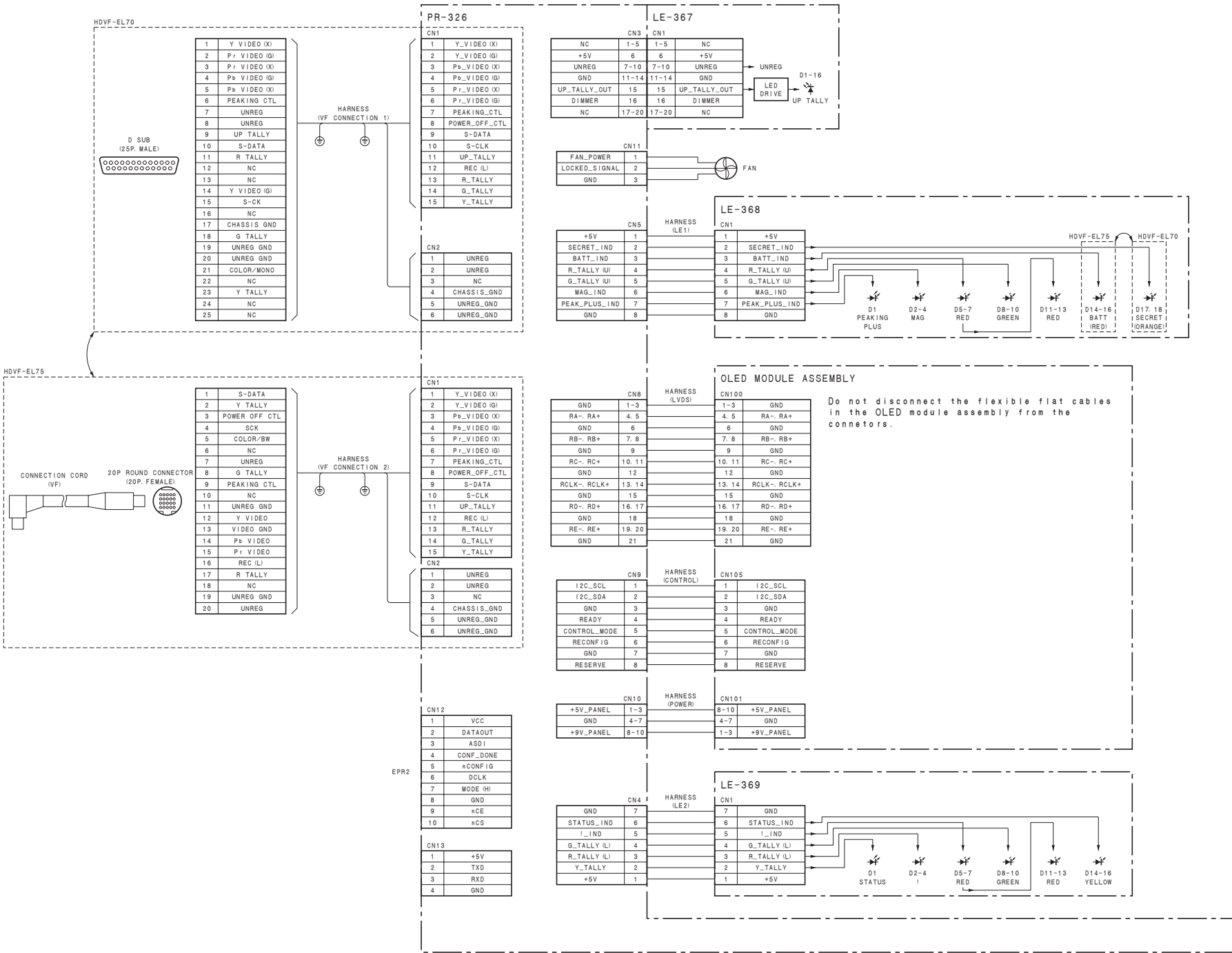
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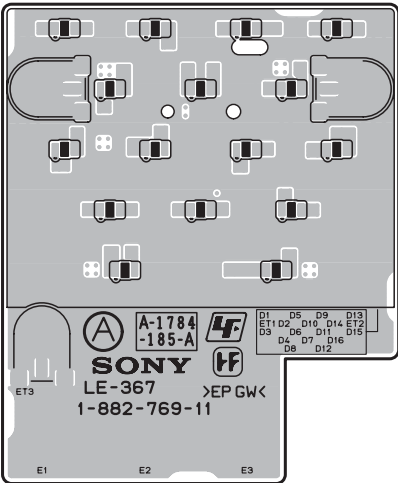
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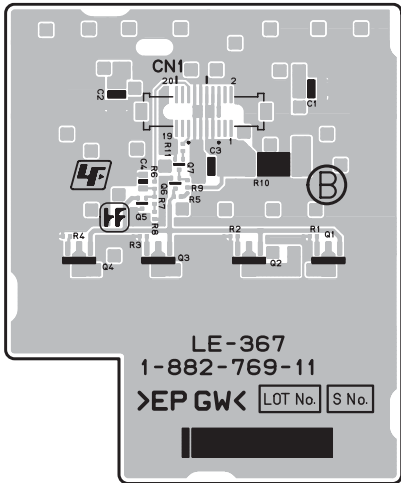
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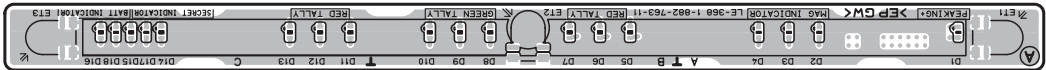
LE-367 -A SIDE-
SUFFIX: -11



LE-367 -B SIDE-
SUFFIX: -11

LE-367 (1-882-769-11)					

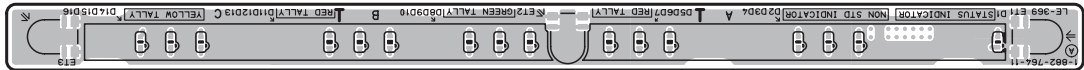
*:B SIDE					
C1	*A1	D13	A1	Q7	*A1
C2	*A1	D14	A1		
C3	*A1	D15	A1	R1	*A1
C4	*A1	D16	A1	R2	*A1
				R3	*A1
CN1	*A1	E1	A1	R4	*A1
		E2	A1	R5	*A1
D1	A1	E3	A1	R6	*A1
D2	A1			R7	*A1
D3	A1	ET1	A1	R8	*A1
D4	A1	ET2	A1	R9	*A1
D5	A1	ET3	A1	R10	*A1
D6	A1			R11	*A1
D7	A1	Q1	*A1		
D8	A1	Q2	*A1		
D9	A1	Q3	*A1		
D10	A1	Q4	*A1		
D11	A1	Q5	*A1		
D12	A1	Q6	*A1		



LE-368 -A SIDE-
SUFFIX: -11



LE-368 -B SIDE-
SUFFIX: -11



LE-369 -A SIDE-
SUFFIX: -11



LE-369 -B SIDE-
SUFFIX: -11

LE-368 (1-882-763-11)

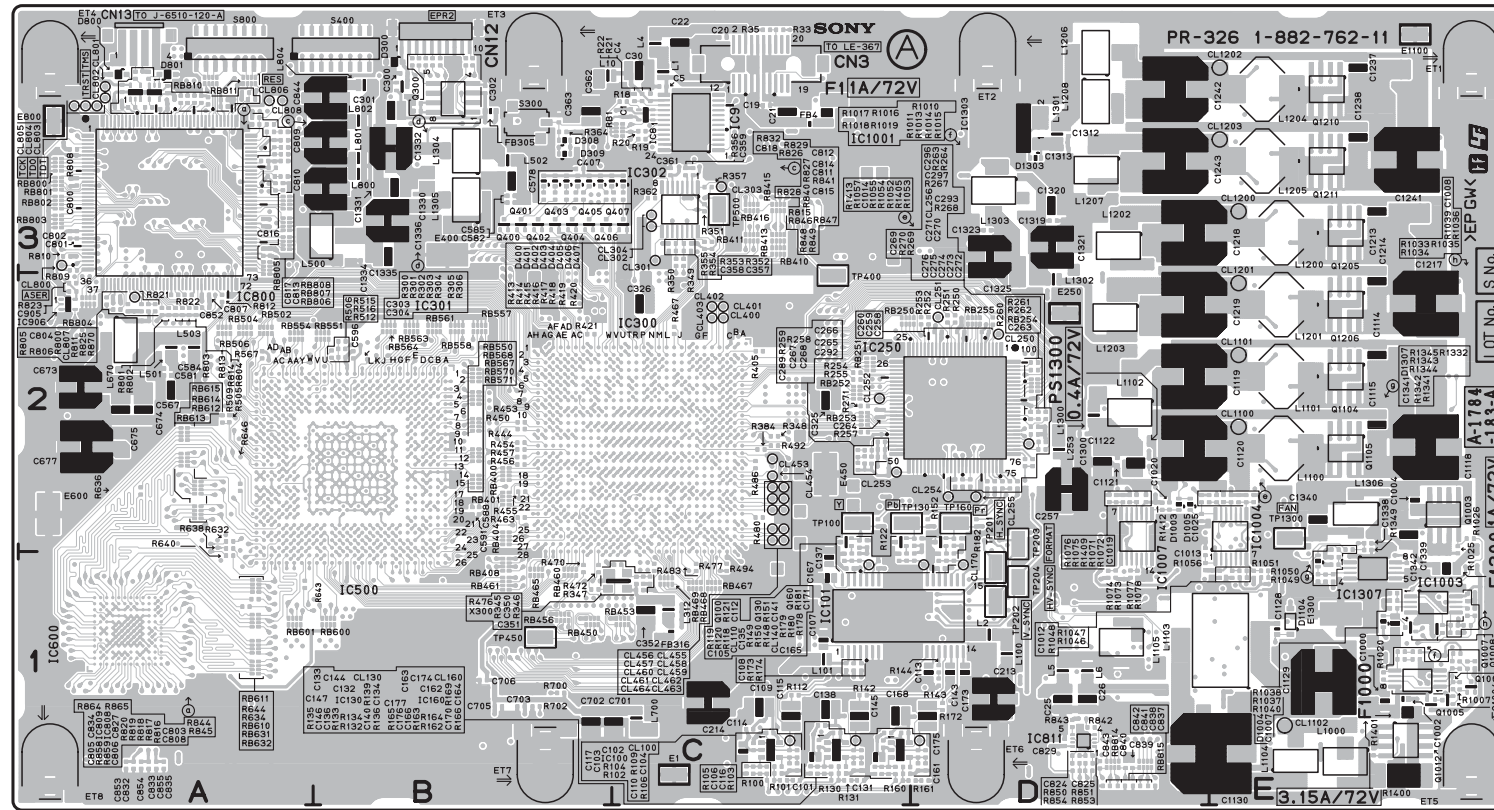
*:B SIDE

C1	*A1	D23	*B1
C2	*A1	D24	*C1
C3	*C1	D25	*C1
C4	*B1		
C5	*C1	ET1	A1
C6	*C1	ET2	B1
		ET3	C1
CN1	*A1		
D1	A1		
D2	A1		
D3	A1		
D4	A1		
D5	B1		
D6	B1		
D7	B1		
D8	B1		
D9	B1		
D10	B1		
D11	C1		
D12	C1		
D13	C1		
D14	C1		
D15	C1		
D16	C1		
D17	C1		
D18	C1		
D20	*A1		
D21	*A1		
D22	*B1		

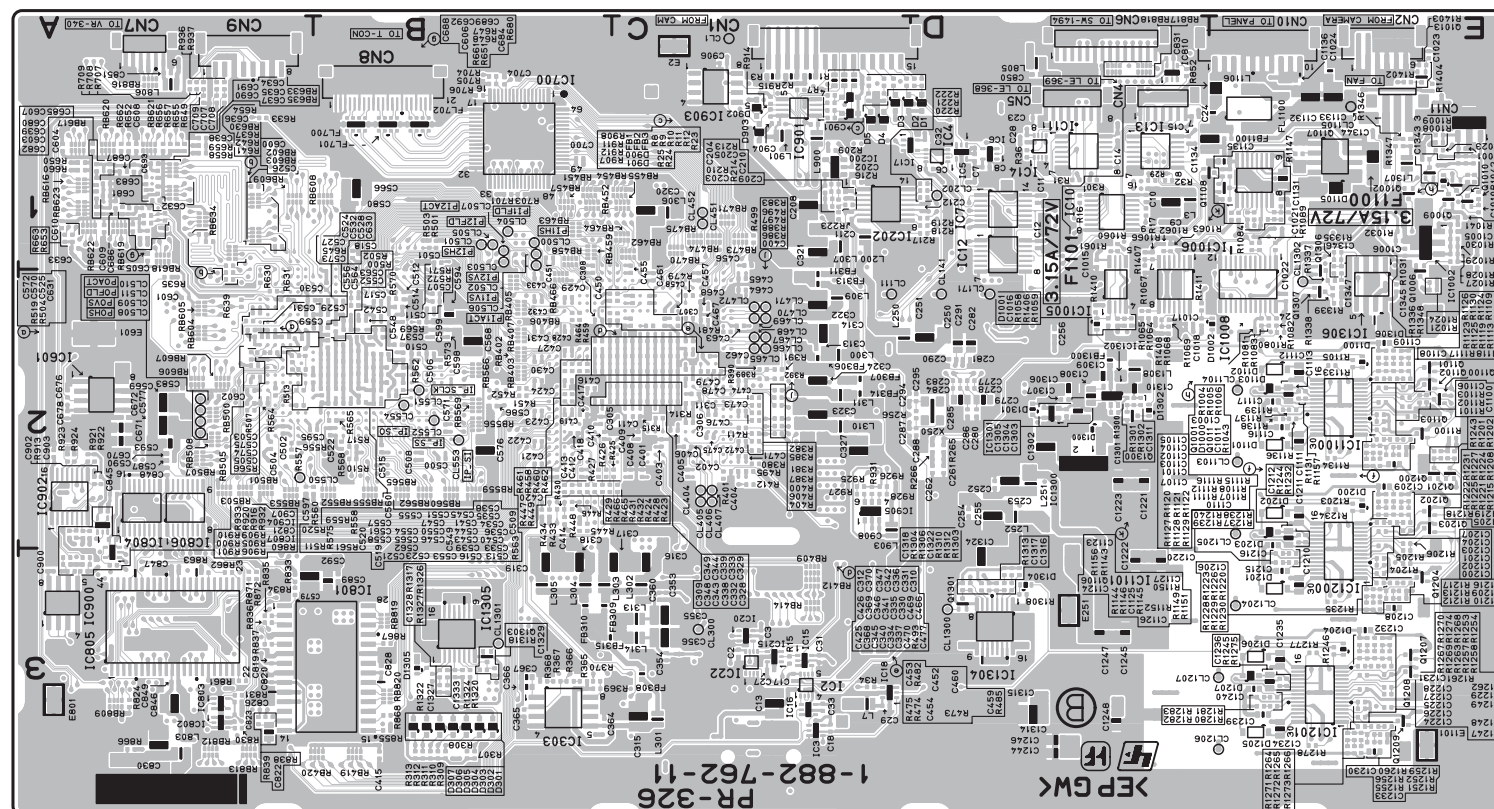
LE-369 (1-882-764-11)

*:B SIDE

C1	*A1	ET1	A1
C2	*A1	ET2	B1
C3	*B1	ET3	C1
C4	*B1		
C5	*C1		
CN1	*A1		
D1	A1		
D2	A1		
D3	A1		
D4	A1		
D5	B1		
D6	B1		
D7	B1		
D8	B1		
D9	B1		
D10	B1		
D11	B1		
D12	B1		
D13	C1		
D14	C1		
D15	C1		
D16	C1		
D20	*A1		
D21	*A1		
D22	*B1		
D23	*B1		
D24	*C1		



PR-326 -A SIDE-SUFFIX: -11



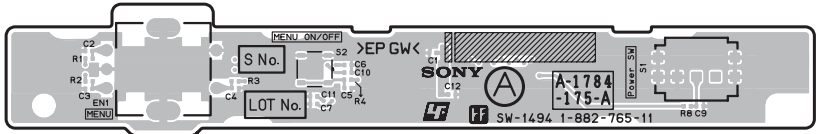
PR-326 -B SIDE-
SUFFIX: -11

PR-326 (1-882-762-11)

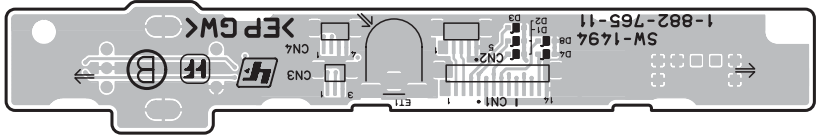
*:B SIDE

C1	C1	C204	*C3	C323	*C2	C432	*B2	C548	*B2	C677	A2	C855	A3	C1207	*E2	C1340	E2	CL801	A1	D1105	*E3	IC12	*D3	L253	D2	Q1008	E3	R135	C3	R348	C2
C2	*C1	C205	*C3	C324	*C2	C433	*B2	C549	*B2	C678	*A2	C900	*A1	C1208	*E1	C1341	E3	CL802	A1	D1200	*E2	IC13	*D3	L300	*C2	Q1009	*E3	R136	C3	R349	C1
C3	*C1	C208	*C3	C325	C2	C450	*B3	C550	*B2	C680	*A3	C901	*C3	C1209	*E2	C1342	E3	CL803	A1	D1201	*E1	IC14	*D3	L301	*C1	Q1010	*E3	R139	C3	R350	C1
C4	C1	C209	*C3	C326	C2	C451	*B3	C551	*B2	C681	*A3	C902	*A2	C1210	*E1	C1343	*E3	CL804	A1	D1202	*E2	IC15	*C1	L302	*C1	Q1011	*E3	R142	C3	R351	C1
C5	C1	C210	*C3	C327	*C2	C452	*C2	C552	*B2	C682	*A3	C903	*A2	C1211	*E2	C1344	*E3	CL805	A1	D1203	*E2	IC16	*C1	L303	*B1	Q1012	E3	R143	D3	R352	C1
C6	*D3	C211	*C3	C328	*C2	C453	*B2	C553	*B2	C683	*A3	C904	*C3	C1212	*E2	C1345	*E2	CL806	A1	D1204	*E1	IC17	*C3	L304	*B1	Q1013	*E3	R144	D3	R353	C1
C7	*D3	C212	*D3	C329	*C2	C454	*C2	C554	*B2	C684	*A3	C905	A2	C1213	E1	C1346	*E3	CL807	A2	D1205	*E1	IC18	*C1	L305	*B1	Q1100	*E2	R148	D3	R354	C1
C8	*D3	C213	D3	C330	*C2	C455	*C3	C555	*B2	C685	*A3	C906	*C3	C1214	E2	C1347	*E2	CL808	A1	D1206	*E1	IC20	*C1	L306	*C3	Q1101	*E2	R149	C3	R355	C1
C9	*D3	C214	C3	C331	*C2	C456	*C3	C556	*B2	C686	*A3	C907	*A2	C1215	*E1			CL1100	E2	D1207	*E1	IC21	*C1	L307	*C3	Q1102	*E2	R150	C3	R356	C1
C10	*D3	C250	*D2	C332	*C2	C457	*C2	C557	*B2	C687	*A3	C908	*C2	C1216	*E2	CL1	*C3	CL1101	E2	D1300	*D2	IC22	*C1	L309	*C2	Q1103	*E2	R151	D2	R357	C1
C11	*D3	C251	*D2	C333	*C2	C458	*C2	C558	*B2	C688	*A3	C1000	E3	C1217	E2	CL100	C3	CL1102	E3	D1301	*D2	IC100	C3	L310	*C2	Q1104	E2	R152	D2	R362	C1
C12	*D3	C252	*D2	C334	*C2	C459	*C2	C559	*B2	C689	*A3	C1001	*E3	C1218	D1	CL110	C3	CL1103	*E2	D1302	*D2	IC101	C3	L311	*C2	Q1105	E2	R160	C3	R364	B1
C13	*C1	C253	*D2	C335	*C2	C460	*C2	C560	*B2	C690	*A3	C1002	E3	C1219	D2	CL111	*C2	CL1104	*E2	D1303	D1	IC130	C3	L312	C3	Q1106	*E3	R161	D3	R365	*B1
C14	*D3	C254	*D2	C336	*C2	C461	*C2	C561	*B2	C691	*A3	C1003	*E3	C1220	*D1	CL130	C3	CL1105	*E3	D1304	*D1	IC160	C3	L313	*C1	Q1107	*E3	R162	C3	R366	*B1
C15	*D3	C255	*D2	C337	*C2	C462	*C2	C562	*B2	C692	*A3	C1004	E2	C1221	*D2	CL140	D3	CL1200	E1	D1305	*B1	IC200	*C3	L314	*C1	Q1108	*D3	R163	C3	R367	*B1
C17	*C1	C256	*D2	C338	*C2	C463	*C2	C563	*B2	C693	*A3	C1005	*E3	C1222	*D1	CL141	*D2	CL1201	E2	D1306	*E2	IC202	*C3	L500	B1	Q1200	*E2	R164	C3	R368	*B1
C18	*C1	C257	D2	C339	*C2	C464	*C2	C564	*B2	C700	*B3	C1006	*E3	C1223	*D2	CL160	D3	CL1202	E1	D1307	E3	IC250	D2	L501	A2	Q1201	*E2	R165	C3	R369	*B1
C19	C1	C258	D2	C340	*C2	C465	*C2	C565	*B2	C701	C3	C1007	E3	C1224	*E1	CL170	D3	CL1203	E1			IC300	C2	L502	B1	Q1202	*E2	R166	D3	R370	*B1
C20	C1	C259	D2	C341	*C2	C466	*C2	C566	*B3	C702	B3	C1008	E3	C1225	*E1	CL171	*D2	CL1204	*E1	E1	C3	IC301	B1	L503	A2	Q1203	*E2	R169	D3	R380	*C2
C21	C1	C260	D2	C342	*C2	C467	*C2	C567	A2	C703	B3	C1009	*E3	C1226	*E1	CL202	*D3	CL1205	*E2	E2	*C3	IC302	C1	L670	A2	Q1204	*E1	R172	D3	R381	*C2
C22	C1	C261	*D2	C343	*C2	C468	*C2	C568	*B2	C704	*B3	C1010	*E3	C1227	*E1	CL250	D2	CL1206	*E1	E250	D2	IC303	*B1	L700	C3	Q1205	E1	R173	C3	R382	*C2
C23	*D3	C262	*D2	C344	*C2	C469	*C2	C569	*A2	C705	B3	C1011	*E3	C1228	*E1	CL251	D2	CL1207	*E1	E251	*D1	IC500	B2	L800	B1	Q1206	E2	R174	C3	R383	*C2
C24	*D3	C263	D2	C345	*C2	C470	*C2	C570	*A2	C706	B3	C1012	E3	C1229	*E1	CL252	C2	CL1300	*D1	E400	B1	IC600	A3	L801	B1	Q1207	*E1	R178	D3	R384	C2
C25	D3	C264	C2	C346	*C2	C471	*C2	C571	*B2	C707	*A3	C1013	D3	C1230	*E1	CL253	C2	CL1301	*B1	E450	C2	IC601	*A2	L802	B1	Q1208	*E1	R179	D3	R385	*C2
C26	D3	C265	C2	C347	*C2	C472	*C2	C572	*A2	C708	*A3	C1014	E2	C1231	*E1	CL254	D2	CL1302	*E2	E600	A2	IC700	*B3	L803	*A1	Q1209	*E1	R180	D3	R386	*C2
C27	*C1	C266	C2	C348	*C2	C473	*C2	C573	*A2	C709	*A3	C1015	*D3	C1232	*E1	CL255	D2			E601	*A2	IC800	A1	L804	B1	Q1210	E1	R181	D2	R387	*C2
C28	*D3	C267	C2	C349	*C2	C474	*C2	C574	*A2	C800	A1	C1016	*D2	C1233	*E1	CL256	D2	CN1	*C3	E800	A1	IC801	*B1	L805	*D3	Q1211	E1	R182	D2	R388	*C2
C29	*C1	C268	C2	C350	C3	C475	*C2	C575	*A2	C801	A1	C1017	*D2	C1234	*E1	CL300	*C1	CN2	*E3	E801	*A1	IC802	*A1	L806	*A3	Q1300	*D2	R209	*C3	R389	*C2
C30	C1	C269	D2	C351	C3	C476	*C2	C576	*B2	C802	A1	C1018	*D2	C1235	*E1	CL301	C1	CN3	C1	E1100	E1	IC803	*A1	L900	*C3	Q1301	*D1	R210	*C3	R390	*C2
C31	*C1	C270	D2	C352	C3	C477	*C2	C577	*A2	C803	A1	C1019	D2	C1236	*E1	CL302	C1	CN4	*D3	E1101	*E1	IC804	*A2	L901	*C3	Q1303	*B1	R213	*C3	R391	*C2
C32	*D3	C271	D2	C353	*C1	C478	*C2	C578	B1	C804	A2	C1020	D2	C1237	E1	CL303	C1	CN5	*D3	E1300	E3	IC805	*A1	L903	*C2	Q1306	*E1	R214	*C3	R392	*C2
C33	*C1	C272	D2	C354	*C1	C479	*C2	C579	*A1	C805	A1	C1021	*E3	C1238	E1	CL304	C1	CN6	*D3			IC806	*A2	L1000	E3	Q1307	*E2	R216	*C3	R400	*C2
C101	C3	C273	D2	C355	*C1	C500	*B2	C580	*B3	C806	A1	C1022	*E2	C1239	*E1	CL400	C2	CN7	*A3	ET1	E1	IC807	*A1	L1100	E2			R217	*D3	R401	*C2
C102	C3	C274	D2	C356	*C1	C501	*B3	C581	A2	C807	A2	C1023	*E3	C1240	*E1	CL401	C2	CN8	*B3	ET2	D1	IC808	A1	L1101	E2	R1	*C3	R218	*D3	R404	*C2
C103	C3	C275	D2	C357	C1	C502	*A2	C582	B1	C808	A1	C1024	*E3	C1241	E1	CL402	C2	CN9	*A3	ET3	B1	IC809	A1	L1102	D2	R2	*C3	R219	*D3	R405	C2
C104	C3	C276	D2	C358	C1	C503	*A2	C583	*A2	C809	B1	C1025	D2	C1242	D1	CL403	C2	CN10	*E3	ET4	A1	IC810	*D3	L1103	E3	R3	*C3	R220	*D3	R406	*C2
C105	C3	C277	*D2	C359	C1	C504	*A2	C584	A2	C810	B1	C1100	*E2	C1243	D1	CL404	*C2	CN11	*E3	ET5	E3	IC811	D3	L1104	E3	R7	*C3	R221	*D3	R411	*C2
C106	C3	C278	*D2	C360	*C1	C505	*A2	C585	B1	C811	A1	C1101	*E2	C1244	*D1	CL405	*C2	CN12	B1	ET6	D3	IC900	*A1	L1105	D3	R8	*C3	R222	*D3	R412	*C2
C107	C3	C279	*D2	C361	C1	C506	*B2	C586	*B2	C812	A1	C1102	*E2	C1245	*D1	CL406	*C2	CN13	A1	ET7	B3	IC901	*C3	L1106	*E3	R9	*C3	R223	*C3	R413	B1
C108	C3	C280	*D2	C362	B1	C507	*B2	C587	*A2	C813	A1	C1103	*E2	C1246	*D1	CL407	*C2			ET8	A3	IC902	*A2	L1200	E1	R10	*C3	R250	D2	R414	B1
C109	C3	C281	*D2	C363	B1	C508	*B2	C588	B2	C814	A1	C1104	*E2	C1247	*D1	CL451	*C3	D1	*D3			IC903	*C3	L1201	E2	R11	*C3	R251	D2	R415	B1
C110	C3	C282	*D2	C364	*B1	C509	*B2	C589	*B1	C815	A1	C1105	*E2	C1248	*D1	CL452	*C3	D2	*C3	F1	C1	IC904	*A2	L1202	D1	R12	*D3	R252	D2	R416	B1
C112	C2	C283	*D2	C365	*B1	C510	*B2	C590	*A2	C816	A1	C1106	*E2	C1300	D2	CL453	C2	D3	*C3	F1000	E3	IC905	*C2	L1203	D2	R15	*C1	R253	D2	R417	B1
C113	D3	C284	*D2	C366	*B1	C511	*B2	C591	B2	C817	A1	C1107	*E2	C1301	*D2	CL454	C2	D4	*C3	F1100	*E3	IC906	A2	L1204	E1	R16	*D3	R254	C2	R418	B1
C114	C3	C285	*D2	C367	*B1	C512	*B2	C592	*B1	C818	A1	C1108	*E2	C1302	*D2	CL455	C2	D5	*C3	F1101	*E3	IC1000	*E3	L1205	E1	R17	*D3	R255	C2	R419	C1
C115	C3	C286	*D2	C368	*C2	C513	*B2	C593	*A2	C819	*A1	C1109	*E2	C1303	*D2	CL456	C2	D300	B1	F1300	E3	IC1001	E3	L1206	D1	R18	C1	R256	*D2	R420	C1
C116	C3	C287	*C2	C369	*C2	C514	*B2	C594	*B2	C820	*A1	C1110	*E2	C1304	*D2	CL457	C2	D301	*B1			IC1002	*E3	L1207	D1	R19	C1	R257	C2	R421	B2
C117	C3	C288	*D2	C370	*C2	C515	*B2	C595	*B2	C821	*A2	C1111	*E2	C1305	*D2	CL458	C2	D302	*B1	FB1	*C3	IC1003	E3	L1208	D1	R20	C1	R258	C2	R423	*C2
C131	C3	C289	C2	C400	*C2	C516	*B2	C596	B2	C822	*A1	C1112	*E2	C1306	*D2	CL459	C2	D303	*B1	FB2	*C3	IC1004	E2	L1300	D2	R21	C1	R259	C2	R424	*B2
C132	C3	C290	*D2	C401	*C2	C517	*B2	C597	*A2	C823	*A1	C1113	*E2	C1307	*D2	CL460	C2	D304	*B1	FB3	*C3	IC1005	*D2	L1301	D1	R22	C1	R260	D2	R425	*C2
C133	C3	C291	*D2	C402	*C2	C518	*B3	C598	*B2	C824	D3	C1114	E2	C1308	*D2	CL461	C2	D305	*B1	FB4	C1										

R465	*B2	R649	*A3	R855	*B1	R1042	*E3	R1146	*E3	R1280	*E1	RB453	C3	RB633	*A3
R466	*B2	R650	*A3	R858	A1	R1043	*E3	R1147	*E3	R1281	*E1	RB454	*C3	RB634	*A3
R467	C2	R651	*A3	R859	A1	R1046	E3	R1149	*E3	R1282	*E1	RB455	*C3	RB635	*A3
R470	B3	R652	*A3	R860	*A1	R1047	E3	R1150	*E3	R1283	*E1	RB456	B3	RB800	A1
R472	B3	R653	*A3	R861	*A1	R1048	E3	R1151	*E3	R1300	*D2	RB457	*B3	RB801	A1
R473	*C2	R654	*A3	R862	*A1	R1049	E3	R1152	*E3	R1301	*D2	RB458	*B3	RB802	A1
R474	*C2	R655	*A3	R863	*A1	R1050	E3	R1156	*E3	R1302	*D2	RB459	*B3	RB803	A1
R475	*B2	R656	*A3	R864	A1	R1051	E3	R1157	*E2	R1303	*D1	RB460	B3	RB804	A2
R476	C3	R657	*A3	R865	A1	R1052	E2	R1200	*E2	R1304	*D1	RB461	B3	RB805	A1
R477	C3	R658	*A3	R866	*A1	R1053	E2	R1201	*E2	R1306	*D1	RB462	*C3	RB806	A1
R479	*C2	R659	*A3	R867	*B1	R1054	E2	R1202	*E2	R1308	*D1	RB463	*B3	RB807	A1
R480	C2	R660	*A3	R868	*B1	R1055	E2	R1203	*E2	R1310	*D1	RB464	*C3	RB808	A1
R481	*C2	R661	*A3	R870	A2	R1056	D3	R1204	*E1	R1312	*D1	RB465	B3	RB809	*A1
R482	*C2	R662	*A3	R871	*A1	R1057	D2	R1205	*E1	R1313	*D1	RB466	*B2	RB810	A1
R483	C3	R663	*A3	R872	*A1	R1058	*D2	R1206	*E2	R1317	*B1	RB467	C3	RB811	A1
R485	*C2	R680	*A3	R900	*A1	R1059	*D2	R1208	*E2	R1318	*B1	RB468	C3	RB812	*A1
R486	C2	R700	B3	R901	*A1	R1060	*D3	R1209	*E1	R1320	*B1	RB469	C3	RB813	*A1
R492	C2	R701	*B3	R905	*A1	R1061	*D3	R1210	*E1	R1322	*B1	RB470	*C3	RB814	D3
R493	*C2	R702	B3	R906	*A1	R1062	*D3	R1211	*E2	R1324	*B1	RB471	*C3	RB815	D3
R494	C3	R703	*B3	R907	*C3	R1063	*D3	R1212	*E1	R1326	*B1	RB473	*C3	RB816	*A3
R495	*C2	R704	*B3	R908	*C3	R1064	*D2	R1213	*E1	R1327	*B1	RB474	*C3	RB817	*D3
R496	*C2	R705	*B3	R909	*A1	R1065	*D2	R1214	*E2	R1332	E2	RB475	*C3	RB818	*D3
R497	*C2	R706	*B3	R910	*A1	R1066	*D3	R1215	*E2	R1335	*E3	RB500	*A2	RB819	*B1
R499	*C3	R707	*A3	R911	*C3	R1067	*D3	R1216	*E1	R1336	*E2	RB501	*A2	RB820	*B1
R500	*B2	R708	*A3	R912	*C3	R1068	*D2	R1217	*E1	R1337	*E2	RB502	A2		
R501	*B3	R709	*A3	R913	*A2	R1069	*D2	R1218	*E2	R1338	*E2	RB503	*A2	S300	B1
R502	*B2	R800	A2	R914	*C3	R1071	D2	R1219	*E2	R1339	*E2	RB504	A2	S400	B1
R503	*B3	R801	A2	R915	*C3	R1072	D2	R1220	*E1	R1341	E3	RB505	*A2	S800	A1
R504	*A2	R802	A2	R916	*A2	R1073	D3	R1221	*E2	R1342	E3	RB506	A2		
R505	A2	R803	A2	R920	*A2	R1074	D3	R1222	*E2	R1343	E3	RB507	*A2	TP100	C2
R506	B2	R804	A2	R921	*A2	R1075	D2	R1223	*E1	R1344	E3	RB508	*A2	TP130	C2
R507	*A2	R805	A2	R922	*A2	R1076	D2	R1224	*E2	R1345	E2	RB550	B2	TP160	D2
R509	A2	R806	A2	R923	*A2	R1077	D3	R1225	*E2	R1346	*E3	RB551	B2	TP201	D3
R510	*B2	R808	A1	R924	*A2	R1078	D3	R1226	*E1	R1347	*E3	RB552	*B2	TP202	D3
R511	*A2	R809	A1	R925	*C2	R1080	*E2	R1227	*E2	R1348	*E2	RB553	*A2	TP203	D2
R512	B2	R810	A1	R926	*C2	R1081	*E2	R1228	*E1	R1349	E2	RB554	A2	TP204	D3
R513	*A2	R811	A2	R927	*C2	R1082	*E2	R1229	*E1	R1400	E3	RB555	*B2	TP400	C2
R515	B2	R812	A2	R928	*C2	R1083	*E2	R1230	*E1	R1401	E3	RB556	*B2	TP450	B3
R516	B2	R813	A2	R931	*C2	R1084	*E3	R1231	*E2	R1402	*E3	RB557	B2	TP500	C1
R517	*B2	R814	A2	R932	*A2	R1089	*E3	R1232	*E2	R1403	*E3	RB558	B2	TP1300	E2
R519	*A2	R815	A1	R933	*A2	R1100	*E2	R1234	*E2	R1404	*E3	RB559	*B2		
R520	*A2	R816	A1	R936	*A3	R1101	*E2	R1235	*E1	R1405	E2	RB560	*B2	X250	*D2
R556	*A2	R817	A1	R937	*A3	R1102	*E2	R1237	*E1	R1406	*D2	RB561	B2	X300	C3
R557	*A2	R818	A1	R1004	*E3	R1103	*E2	R1238	*E1	R1407	*D3	RB562	*B2		
R558	*A2	R819	A1	R1005	*E3	R1104	*E2	R1239	*E1	R1408	*D2	RB563	B2		
R559	*A2	R820	A1	R1006	*E3	R1105	*E2	R1240	*E1	R1409	D2	RB564	B2		
R560	*B2	R821	A2	R1007	E3	R1107	*E2	R1243	*E2	R1410	*D2	RB565	*B2		
R561	*A2	R822	A2	R1008	*E3	R1108	*E2	R1244	*E2	R1411	*D2	RB566	*B2		
R562	*B2	R823	A2	R1009	*E3	R1109	*E2	R1245	*E1	R1412	D2	RB567	B2		
R563	*B2	R824	*A1	R1010	E3	R1110	*E2	R1246	*E1	R1413	D2	RB568	B2		
R564	*A2	R825	A2	R1011	E3	R1111	*E2	R1247	*E1			RB569	*B2		
R565	*B2	R826	A1	R1013	E3	R1112	*E2	R1248	*E1	RB1	C1	RB570	B2		
R566	*A2	R827	A1	R1014	E3	R1113	*E2	R1249	*E1	RB250	C2	RB571	B2		
R567	A2	R828	A1	R1015	E3	R1114	*E2	R1251	*E1	RB251	C2	RB600	B3		
R568	*B2	R829	A1	R1016	E3	R1115	*E2	R1252	*E1	RB252	C2	RB601	A3		
R569	*B2	R830	*A1	R1017	E3	R1116	*E2	R1253	*E1	RB253	C2	RB602	*A3		
R570	*B2	R831	*A1	R1018	E3	R1117	*E2	R1254	*E1	RB254	D2	RB603	*A3		
R571	*B2	R832	A1	R1019	E3	R1118	*E2	R1255	*E1	RB255	D2	RB604	*A2		
R572	*B2	R833	*A1	R1020	E3	R1119	*E2	R1256	*E1	RB400	B2	RB605	*A2		
R573	*B2	R834	*A1	R1021	*E2	R1120	*E2	R1257	*E1	RB401	B2	RB606	*A2		
R575	*A2	R835	*A1	R1022	E3	R1121	*E2	R1258	*E1	RB402	*B2	RB607	*A2		
R630	*A2	R836	*A1	R1023	*E3	R1122	*E2	R1259	*E1	RB403	*B2	RB608	*B3		
R631	*A2	R837	*A1	R1024	*E2	R1123	*E2	R1260	*E1	RB404	B2	RB609	*A3		
R632	A2	R838	*A1	R1025	E2	R1124	*E2	R1261	*E1	RB405	*B2	RB610	A3		
R633	*A3	R839	*A1	R1026	E2	R1125	*E2	R1262	*E1	RB406	*B2	RB611	A3		
R634	A3	R840	A1	R1027	*E3	R1126	*E2	R1263	*E1	RB407	*B2	RB612	A2		
R635	*A2	R841	A1	R1028	*E3	R1127	*E2	R1264	*E1	RB408	B3	RB613	A2		
R636	A2	R842	D3	R1029	*E3	R1128	*E2	R1265	*E1	RB409	*C1	RB614	A2		
R637	*A3	R843	D3	R1030	*E3	R1129	*E2	R1266	*E1	RB410	C1	RB615	A2		
R638	A2	R844	A1	R1031	*E3	R1130	*E2	R1267	*E1	RB411	C1	RB616	*A3		
R639	*A2	R845	A1	R1032	*E3	R1131	*E2	R1268	*E1	RB412	*C1	RB617	*A3		
R640	A3	R846	A1	R1033	E3	R1133	*E2	R1269	*E1	RB413	C1	RB618	*A3		
R641	*A2	R847	A1	R1034	E3	R1134	*E2	R1270	*E1	RB414	*C1	RB619	*A3		
R642	*A2	R848	A1	R1035	E3	R1136	*E2	R1271	*E1	RB415	C1	RB620	*A3		
R643	A3	R849	A1	R1036	E3	R1137	*E2	R1272	*E1	RB416	C1	RB621	*A3		
R644	A3	R850	D3	R1037	E3	R1138	*E2	R1273	*E1	RB419	*B1	RB622	*A3		
R645	*A2	R851	D3	R1038	E3	R1139	*E2	R1274	*E1	RB420	*B1	RB623	*A3		
R646	A2	R852	*D3	R1039	E3	R1143	*E3	R1275	*E1	RB450	B3	RB630	*A3		
R647	*A3	R853	D3	R1040	E3	R1144	*E3	R1277	*E1	RB451	*B3	RB631	A3		
R648	*A3	R854	D3	R1041	*E3	R1145	*E3	R1278	*E1	RB452	*B3	RB632	A3		



SW-1494 -A SIDE-
SUFFIX: -11



SW-1494 -B SIDE-
SUFFIX: -11

SW-1494 (1-882-765-11)

*:B SIDE

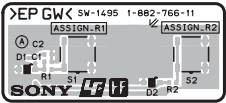
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C6	A1		
C7	A1	S1	A1
C9	A1	S2	A1
C10	A1		
C11	A1		
C12	A1		

CN1	*A1
CN2	*A1
CN3	*A1
CN4	*A1

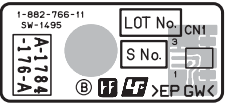
D1	*A1
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D3	*A1
D4	*A1
D8	*A1

EN1	A1
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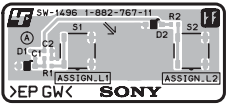
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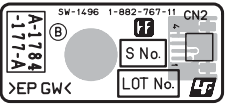
SW-1495 -A SIDE-
SUFFIX: -11



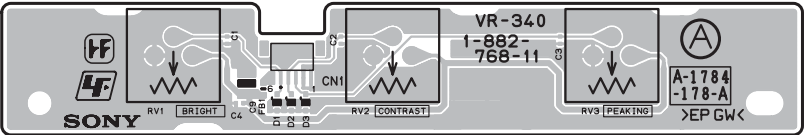
SW-1495 -B SIDE-
SUFFIX: -11



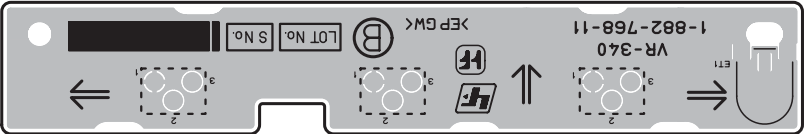
SW-1496 -A SIDE-
SUFFIX: -11



SW-1496 -B SIDE-
SUFFIX: -11



VR-340 -A SIDE-
SUFFIX: -11



VR-340 -B SIDE-
SUFFIX: -11

HDVF-EL70 (SY)
HDVF-EL75 (SY) J, E
9-968-781-01

Sony Corporation

Printed in Japan
2010. 8 08
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