

SONY®

3G FIBER TRANSMISSION UNIT

HKC-HB10

HKC-HB15

HD COLOR CAMERA

HDC1000

HDC1500

HDC1000R

HDC1100R

HDC1400R

HDC1500R

HDC1600R

MAINTENANCE MANUAL

1st Edition

⚠ 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。

設置や保守、点検、修理などを行う前に、カメラ本体に関する下記マニュアルの「安全のために」を必ずお読みください。

- HDC1000/HDC1500
メンテナンスマニュアルおよびオペレーションマニュアル
- HDC1000R/HDC1100R/HDC1400R/HDC1500R/HDC1600R
メンテナンスマニュアルおよびオペレーションマニュアル

⚠ 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.

⚠ WARNING

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.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

CAUTION

The use of optical instruments with this product will increase eye hazard.

CLASS 1 LASER PRODUCT
LASER KLASSE 1 PRODUKT
LUOKAN 1 LASERLAITE
KLASS 1 LASER APPARAT

This 3G Fiber Transmission Unit is classified as a CLASS 1 LASER PRODUCT.

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Manual Structure

Purpose of this manual

This manual is the maintenance manual for 3G Fiber Transmission Unit HKC-HB10/HB15.

This manual describes the information items that premise the service based on the components parts such as installation, service overview, replacement of main parts, spare parts lists, schematic diagrams, and board layouts, assuming use of system and service engineers.

Related manuals

Besides this maintenance manual the following manual is available for this unit. Refer to the following manual for the content that has been not described in this manual.

HDC1000/1500

- **HDC1000 Operation Manual (Supplied with HDC1000)**

This manual is necessary for application and operation of HDC1000.

Part number: 3-903-903-0X

- **HDC1500 Operation Manual (Supplied with HDC1500)**

This manual is necessary for application and operation of HDC1500.

Part number: 3-868-749-0X

- **Maintenance Manual Volume 1 (Available on request)**

Describes the maintenance and service information necessary for parts replacement and adjustments of HDC1000/1500.

Part number: 9-968-212-0X

- **Maintenance Manual Volume 2 (Available on request)**

Describes the parts list, semiconductor pin assignments, block diagrams, schematic diagrams and board layouts of HDC1000/1500.

Part number: 9-968-213-0X

- **“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

HDC1000R/1100R/1400R/1500R/1600R

- **HDC1000R Operation Manual (Supplied with HDC1000R)**

This manual is necessary for application and operation of HDC1000R.

Part number: 4-140-774-0X

- **HDC1400R/1500R Operation Manual
(Supplied with HDC1400R/1500R)**

This manual is necessary for application and operation of HDC1400R/1500R.

Part number: 4-140-776-0X

- **Maintenance Manual Volume 1 (Available on request)**

Describes the maintenance and service information necessary for parts replacement and adjustments of HDC1400R/1500R/1600R.

Part number: 9-968-618-0X

- **Maintenance Manual Volume 2 (Available on request)**

Describes the parts list, semiconductor pin assignments, block diagrams, schematic diagrams and board layouts of HDC1400R/1500R/1600R.

Part number: 9-968-619-0X

- **“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

Installation

1-1. General Information for Installation

Components

This unit consists of the following components.

HKC-HB10

- SDI-95 board
- SDI heatsink
- DC fan
- Optical multi cable assembly
- Coaxial cables (2)
- Heat transfer sheet

HKC-HB15

- SDI-95 board
- Heatsink sub assembly
- DC fan
- Power block assembly
- Heatsink 2 (DD)
- Heatsink (DPR VCO)
- Optical multi cable assembly
- Coaxial cables (2)
- Heat transfer sheets (3)

Applicable model

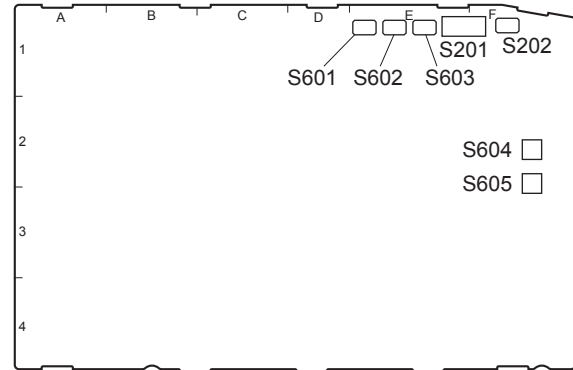
HKC-HB10

- HDC1000
- HDC1000R

HKC-HB15

- HDC1500
- HDC1500R
- HDC1400R

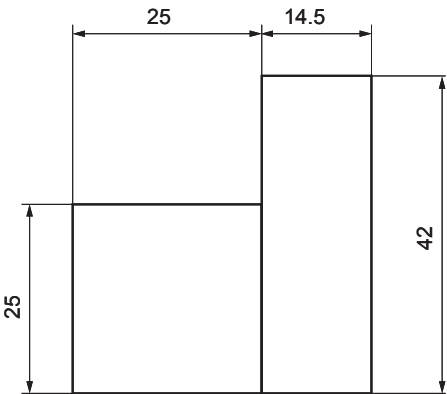
Switches on the SDI-95 board



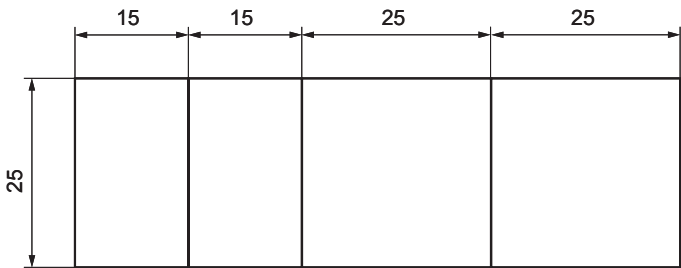
SDI-95 BOARD (SIDE A)

Ref. No.	Description	Factory settings
S201-1	Not used (always OFF)	OFF
S201-2	PROMPTER2 output	OFF (non-active)
S201-3	SDI/VBS RET input	ON (active)
S201-4 to 8	Not used (always OFF)	OFF
S202	Not used	OFF
S601	Not used	OFF
S602	Not used	OFF
S603	Not used	OFF
S604-1 to 4	Factory use	OFF
S605-1 to 4	Factory use	OFF

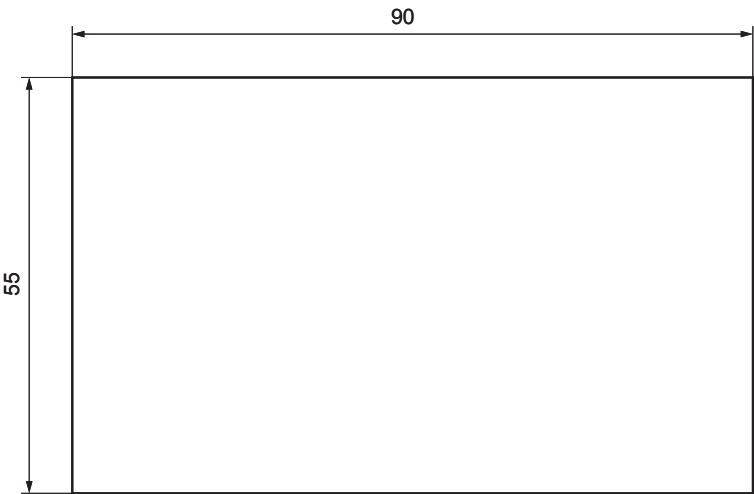
Heat transfer sheet/Thermal sheet



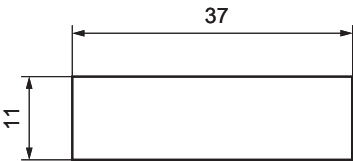
Heat transfer sheet (1)



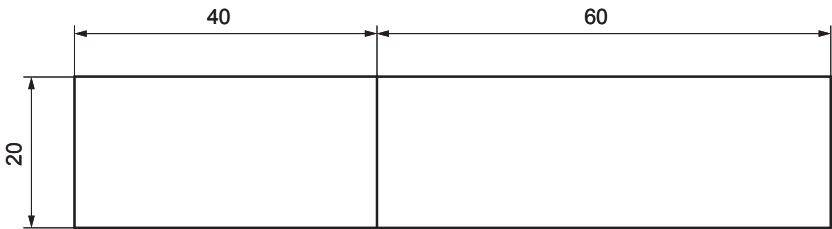
Heat transfer sheet (2)



Heat transfer sheet (DD)



Thermal sheet
(A70-SMALL)



Thermal sheet
(A70-CHASSIS)

1-2. Installing the HKC-HB10/HB15

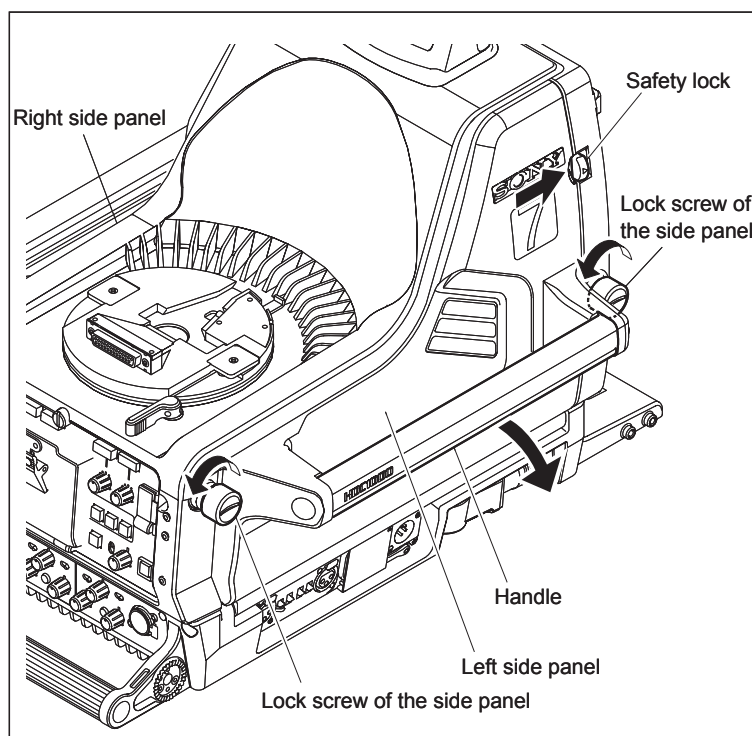
1-2-1. HKC-HB10

Opening the side panels

1. Loosen the two lock screws of the side panel.
2. Hold the handle and open the left side panel while sliding the safety lock to the lens side.

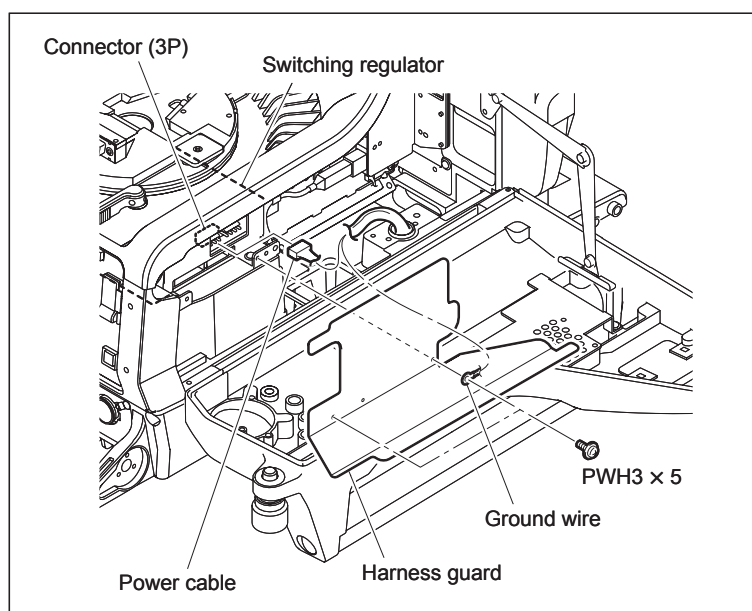
Notes

- Open the right side panel in the same way.
- When the side panel is closed, the safety lock is automatically locked.



Removing the SDI unit assembly

1. Open the left side panel.
2. Remove the two screws and remove the harness guard and the ground wire of the optical multi cable assembly.
3. Disconnect the power cable of the optical multi cable assembly from the connector (3P) on the switching regulator.



4. Release the two claws and remove the ferrite core from the harness (LENS).
(HDC1000R only)

5. Remove the two screws on the lens side.

Note

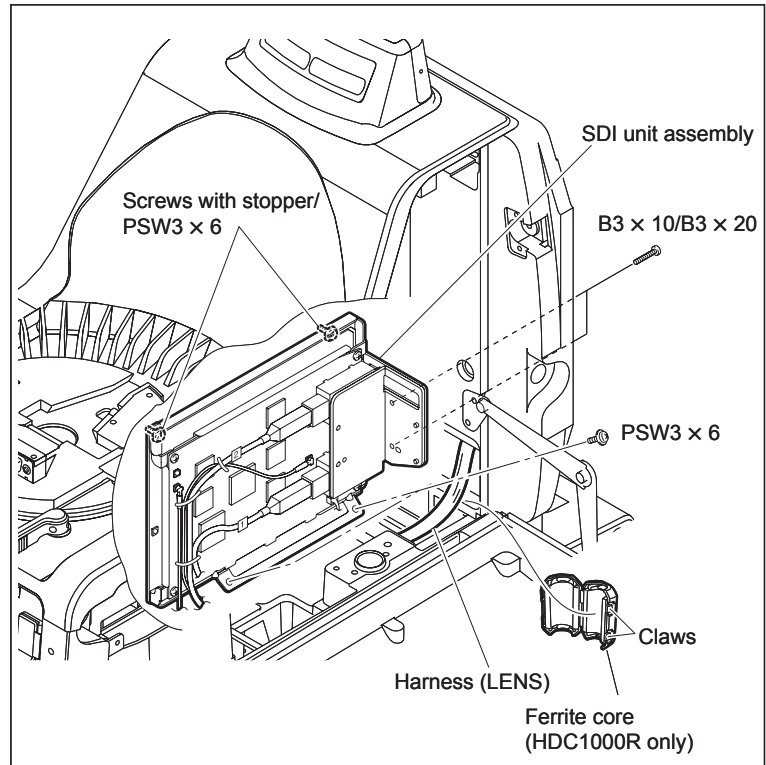
The length of the screws in use varies depending on the lens mounting system.

- Sony mounting system: B3 × 10
- Center mounting system: B3 × 20

6. Loosen the two screws with stopper (upper) and remove the two screws (lower).

Note

Normal screws (PSW3 × 6) are used instead of the two screws with stopper (upper) in some models.

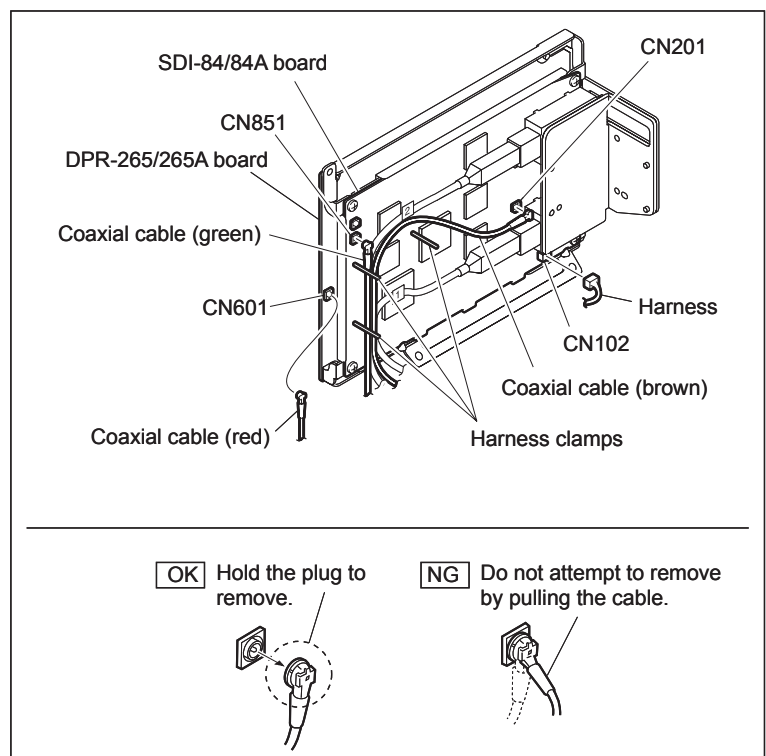


7. Release the cables from the three harness clamps.
8. Disconnect the coaxial cables from the connectors CN201 and CN851 on the SDI-84/84A board and from the connector CN601 on the DPR-265/265A board.

Note

Be sure to hold the plug when disconnecting the coaxial cable. Do not pull the cable.

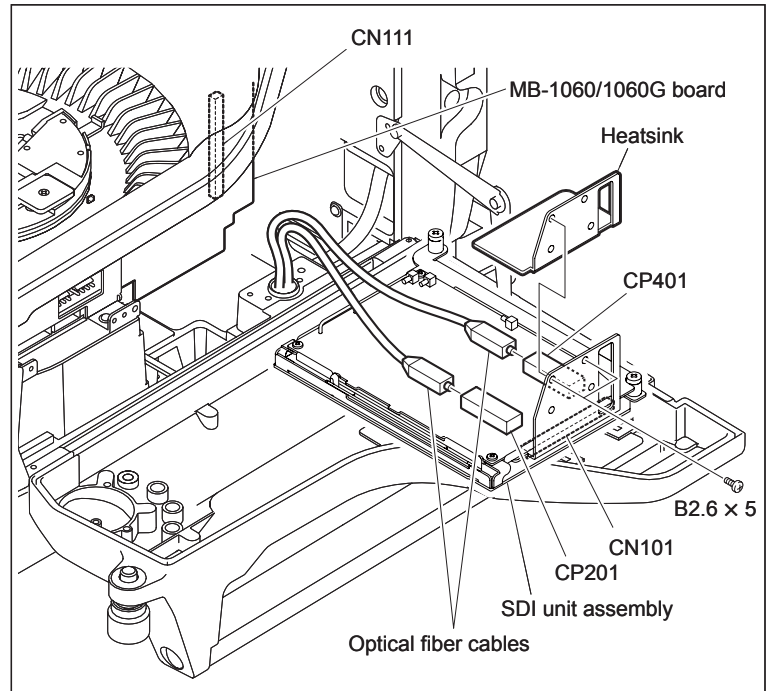
9. Disconnect the harness from the connector CN102 on the SDI-84/84A board.



10. Disconnect the connector CN101 on the DPR-265/265A board from the connector CN111 on the MB-1060/1060G board, and remove the SDI unit assembly from the unit.
11. Put the SDI unit assembly at the location shown in the figure, and disconnect the optical fiber cables from the E/O converter module CP201 and the O/E converter module CP401 on the SDI-84/84A board.

Notes

- If optical fiber cable is bent or pulled strongly, it may be disconnected. Handle optical fiber cables carefully.
 - Do not touch the tip of the optical fiber cable. This may result in deterioration of signals.
12. Bundle the disconnected cables inside the unit so that they will not be caught by the left side panel.
 13. Close the left side panel.
 14. Remove the two screws and remove the heatsink from the SDI unit assembly.



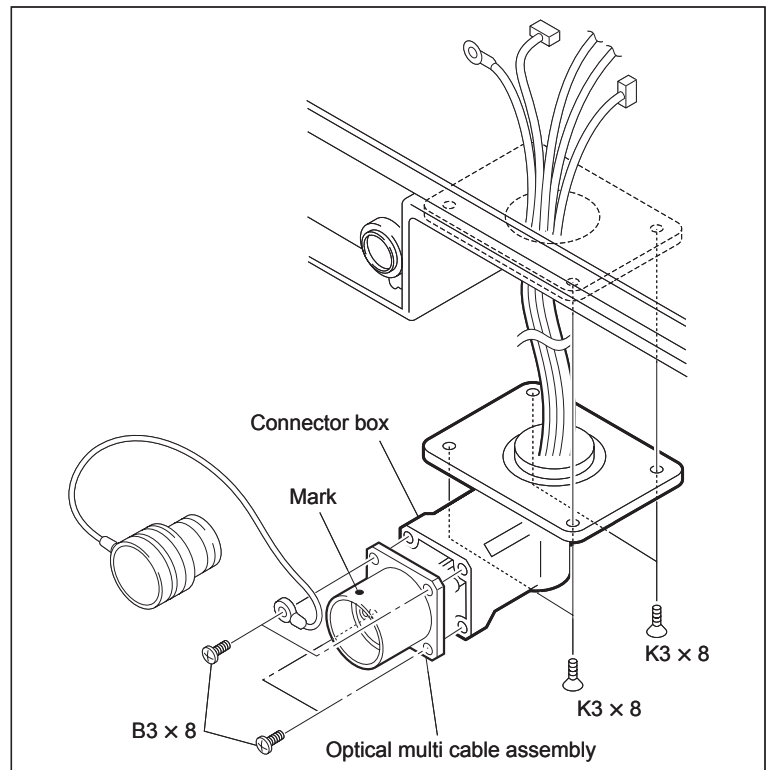
Removing the optical multi cable assembly

1. Remove the four screws (K3 × 8).
2. Open the left side panel and remove the connector box and the optical multi cable assembly.
3. Remove the four screws (B3 × 8) and pull the optical multi cable assembly out of the connector box.

Note

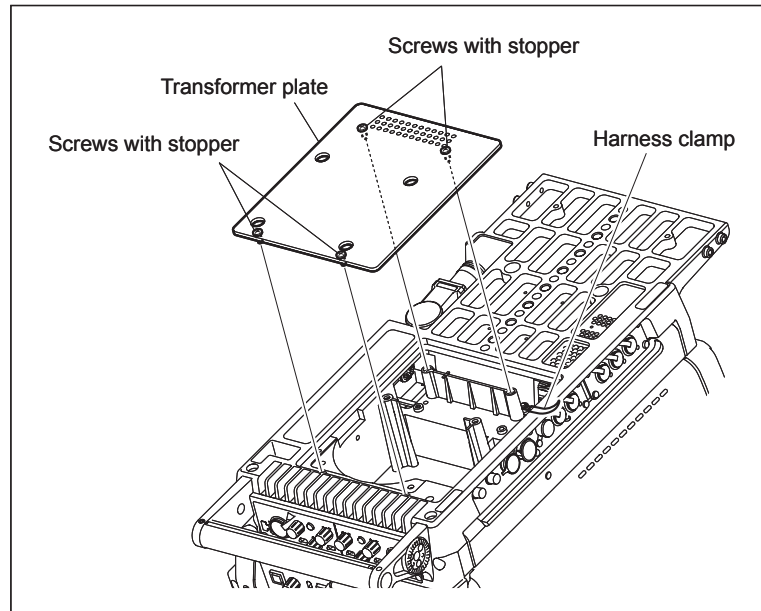
Clean the removed optical multi cable, and then connect it to the SDI-84/84A board and send it back to the customer.

4. Close the left side panel.

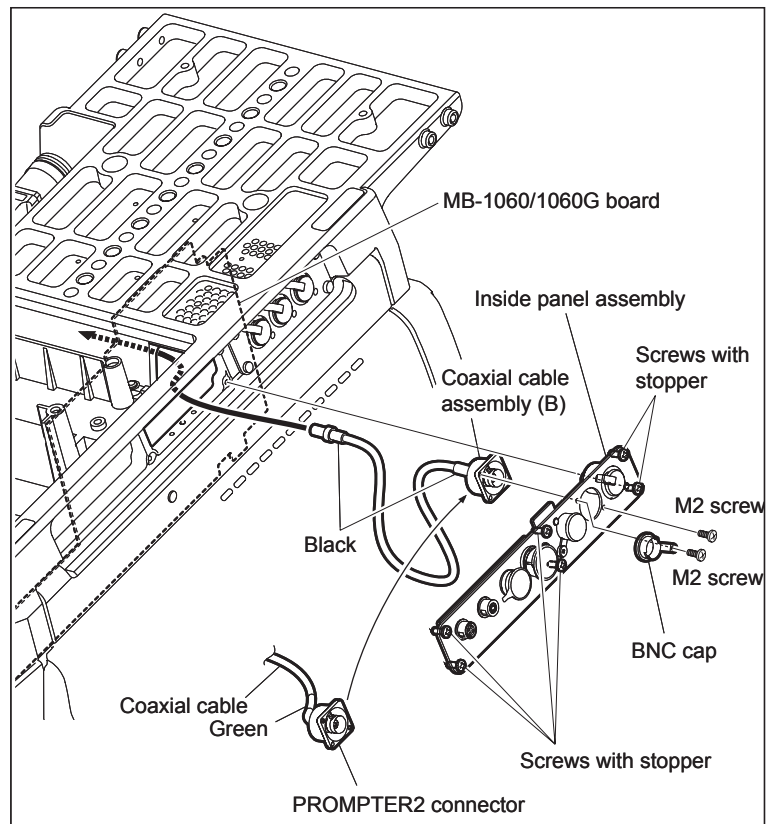


Replacing the coaxial cables

1. Turn the unit upside down.
2. Loosen the four screws with stopper and remove the transformer plate.
3. Open the harness clamp.



4. Loosen the six screws with stopper and pull out the inside panel assembly.
5. Remove the two screws, and detach the BNC cap, the PROMPTER2 connector, and the coaxial cable.
6. Pass the coaxial cable assembly (B) through the unit as shown in the figure. Determine the coaxial cable assembly to be used by the heat-shrinkable tube color of the coaxial cable assembly.
 - Coaxial cable assembly (A)
Panel side: Black Board side: White
 - Coaxial cable assembly (B)
Panel side: Black Board side: Black
7. Secure the coaxial cable assembly (B) and the BNC cap with two screws.

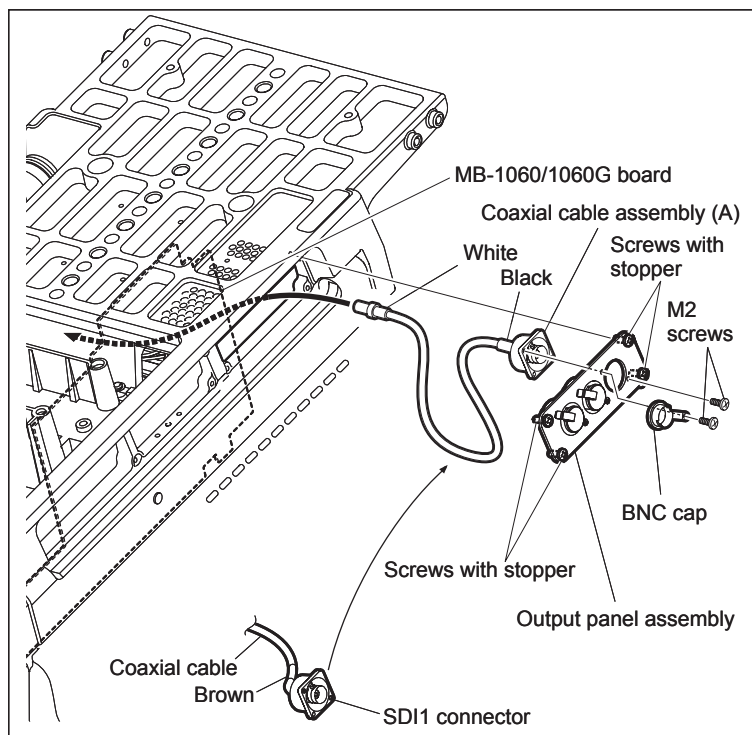


8. Loosen the four screws with stopper and pull out the output panel assembly.

Note

Be careful not to disconnect the coaxial cable.

9. Remove the two screws, and detach the BNC cap, the SDI1 connector, and the coaxial cable.
10. Pass the coaxial cable assembly (A) through the unit as shown in the figure.
11. Secure the coaxial cable assembly (A) and the BNC cap with two screws.
12. Secure the output panel assembly with four screws with stopper.
13. Secure the inside panel assembly with six screws with stopper.
14. Secure the transformer plate with four screws with stopper.
15. Open the left side panel and check that the two coaxial cables can be lead out.



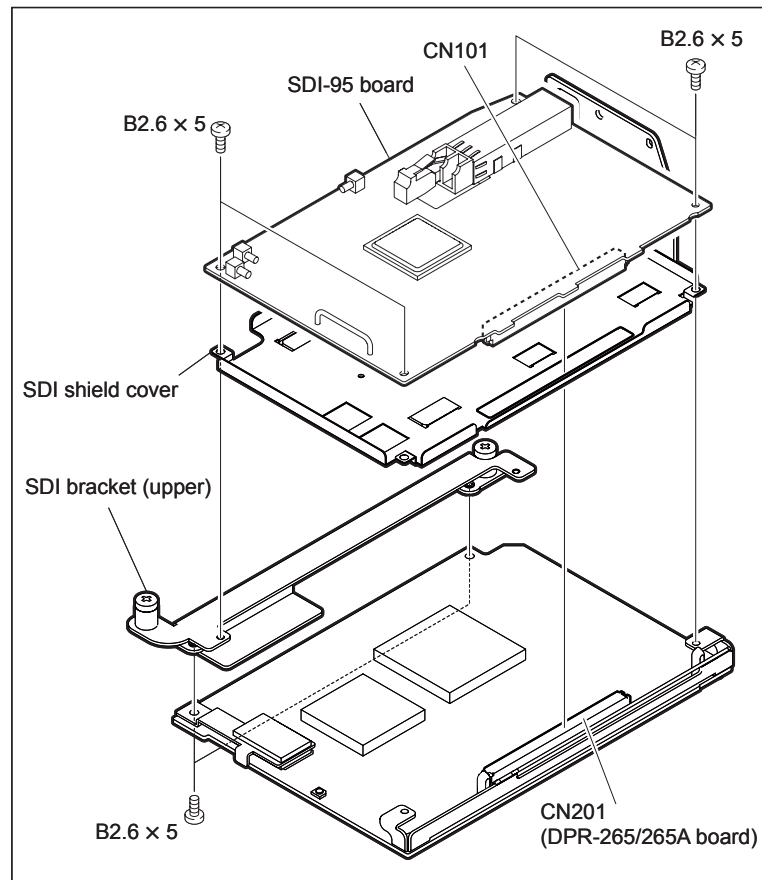
Installing the SDI-95 board

1. Open the left side panel.
2. Remove the four screws of the SDI unit assembly.
3. Disconnect the connector CN101 on the SDI-84/84A board from the connector CN201 on the DPR-265/265A board.

Note

When upgrading the PLD on the DPR-265A board, the download tool cannot be connected to the EPR connector unless the SDI board is removed, which disables the PLD to be upgraded. Therefore, upgrade the PLD using the following procedure before installing the SDI-95 board. It is not necessary to upgrade the PLD on the DPR-265 board.

- (1) Remove the two screws to detach the SDI bracket (upper).
 - (2) Connect the connector CN101 on the DPR-265A board to the connector CN111 on the MB-1060G board.
 - (3) Connect the power cable to the DC IN connector.
 - (4) Upgrade the PLD on the DPR-265A board. (Refer to Section 2-6.)
4. Connect the connector CN101 on the SDI-95 board of this kit to the connector CN201 on the DPR-265/265A board.
 5. Secure the SDI-95 board with four screws.



6. Attach the heat transfer sheets (1) at the position shown in the figure with its darker-color side facing up.
7. Put the SDI heatsink on the heat transfer sheets and press the SDI heatsink to obtain effective heat transfer.

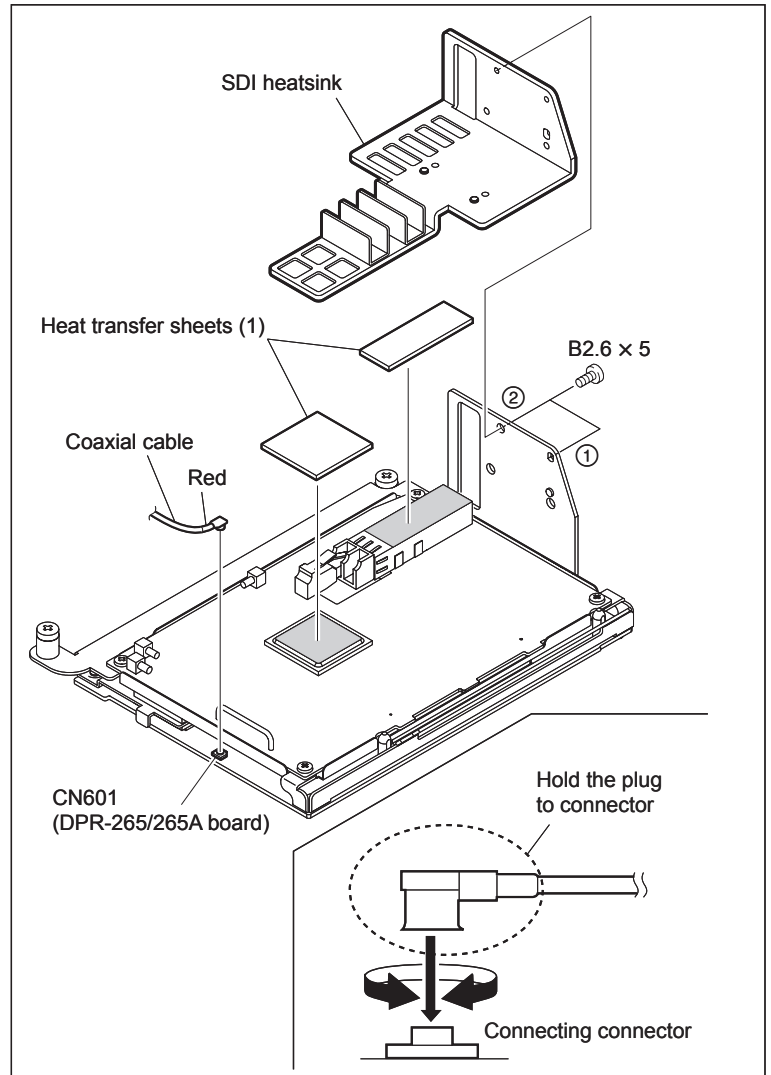
Note

The SDI heatsink shall be in contact with the heat transfer sheets.

8. Secure the SDI heatsink with two screws in the order as shown in the figure.
9. Connect the coaxial cable to the connector CN601 on the DPR-265/265A board.

Note

Hold the plug of the coaxial cable, and connect it perpendicularly to the connector. Push the plug into the connector while turning it clockwise and counterclockwise several times.

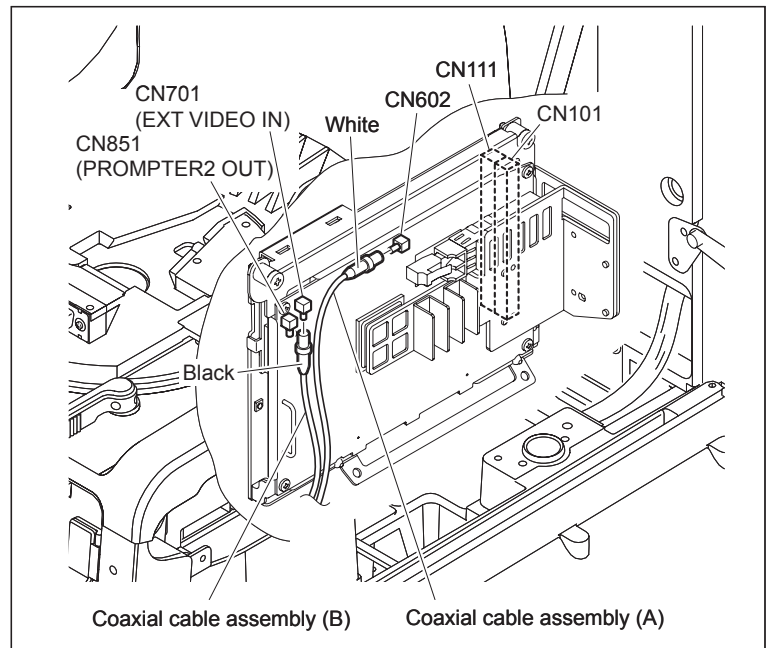


10. Insert the SDI unit assembly into the unit from the bottom, and connect the connector CN101 on the DPR-265/265A board to the connector CN111 on the MB-1060/1060G board.
11. Connect the coaxial cable assembly (B) to the connector CN701 on the SDI-95 board.

Note

To use this unit as PROMPTER2 output without inputting HD TRUNK or HD-SDI/VBS in standalone operation, connect the coaxial cable assembly (B) to the connector CN851 on the SDI-95 board. (Refer to Section 1-2-3.)

12. Connect the coaxial cable assembly (A) to the connector CN602 on the SDI-95 board.
13. Install the SDI unit assembly by reversing steps 4 to 6 in “Removing the SDI unit assembly.”
14. Close the left side panel.



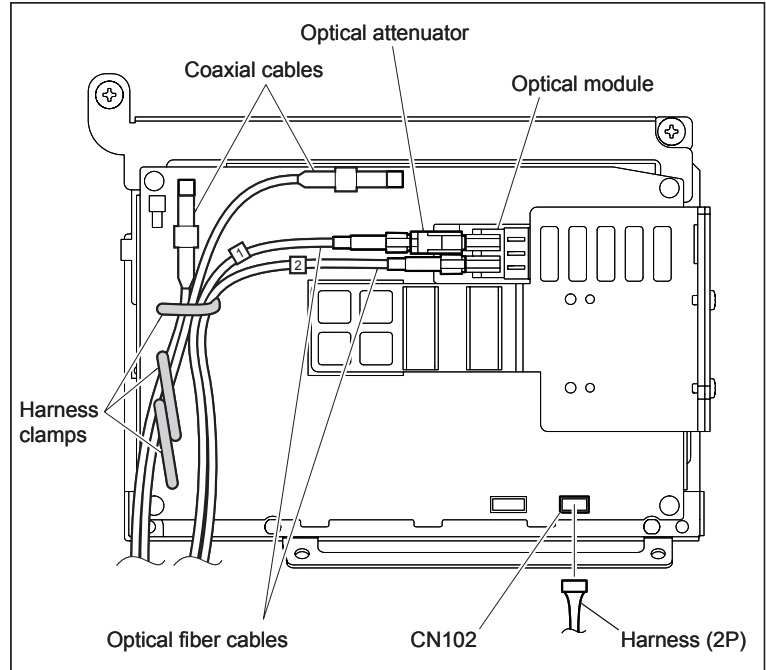
Installing the optical multi cable assembly

1. Install the optical multi cable assembly by reversing steps 1 to 3 in “Removing the optical multi cable assembly.”
2. Open the left side panel.
3. Detach the caps of the two optical fiber cables and connect the optical fiber cables to the optical module on the SDI-95 board.

Note

Check cable numbers when connecting optical fiber cables, and insert the cable connector as far as it will go.

4. Connect the harness (2P) of the optical multi cable assembly to the connector CN102 on the SDI-95 board.
5. Arrange the optical fiber cables and the coaxial cables as shown in the figure and clamp them with the three harness clamps.



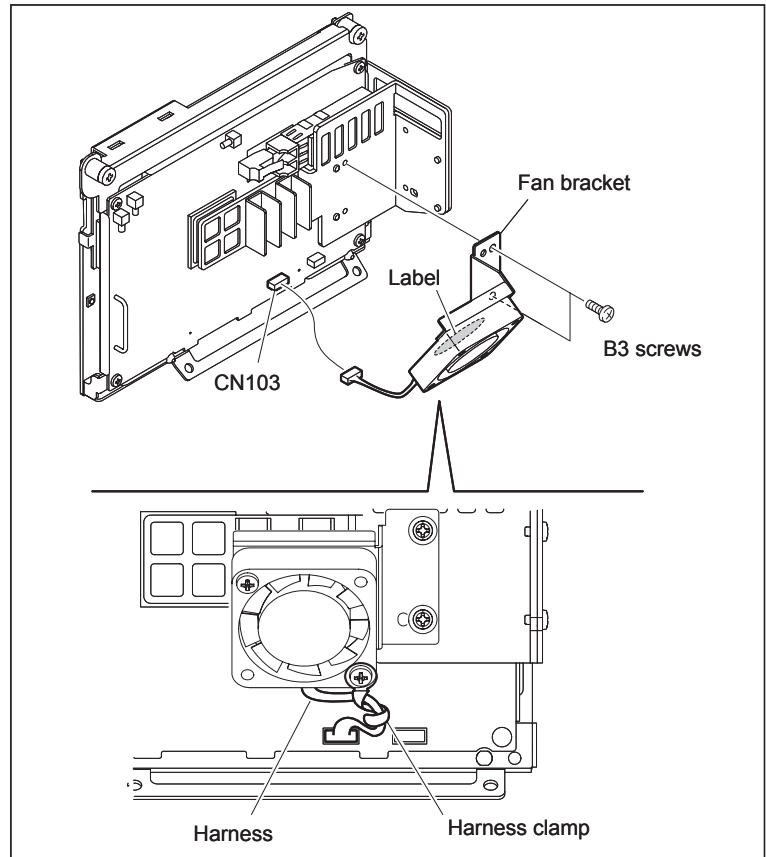
Installing the fan

1. Connect the fan harness to the connector CN103 on the SDI-95 board.
2. Tighten the supplied two screws to secure the fan bracket and the harness clamp.

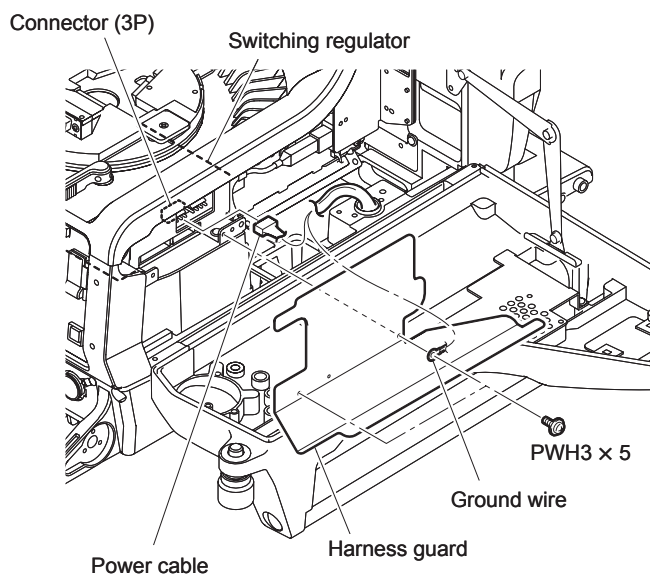
Note

Be sure to use the supplied screws. Using a screw longer than the supplied screws may damage the board.

3. Check that the fan harness is arranged as shown in the figure.



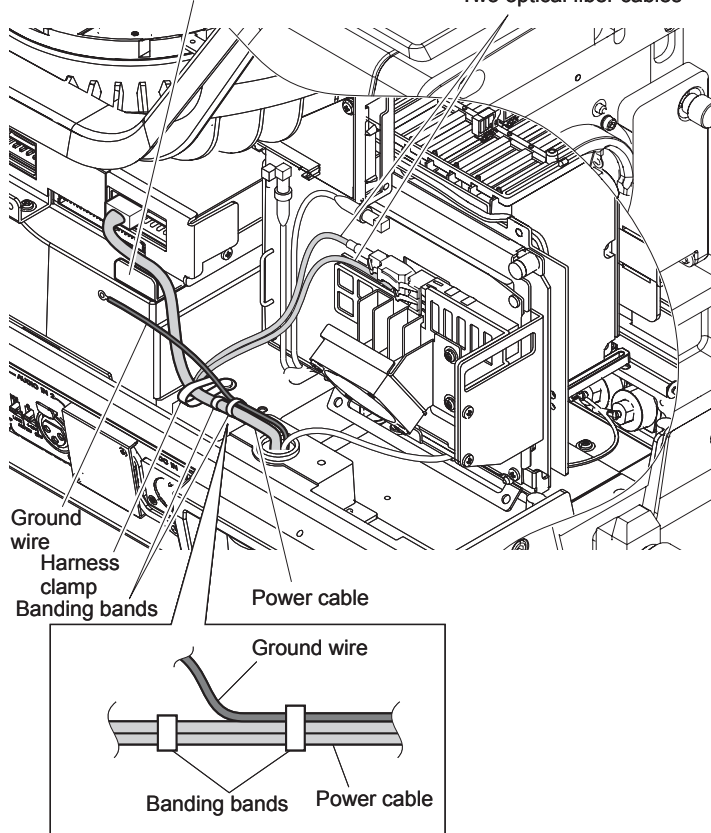
4. Connect the power cable of the optical multi cable assembly to the connector (3P) on the switching regulator.
5. Arrange the power cable and the two optical fiber cables as shown in the figure, and clamp them with the harness clamp.
6. Secure the harness guard and the ground wire of the optical multi cable assembly with two screws.
7. Clamp the power cable and the ground wire with banding bands at the position shown in the figure so that the power cable will not be caught by the fan.
8. Close the left side panel.



• Arrangement of Cable and Harness

Arrange the cables inside the harness guard.

Two optical fiber cables



Attaching seal and labels

Attach the connector panel seal, serial number label, and HB label at the locations shown in the figure.

Note

Attach the connector panel seal and the HB label according to the customer's requirement.

Actions to be taken after installing this kit

Perform the following after this kit is installed.

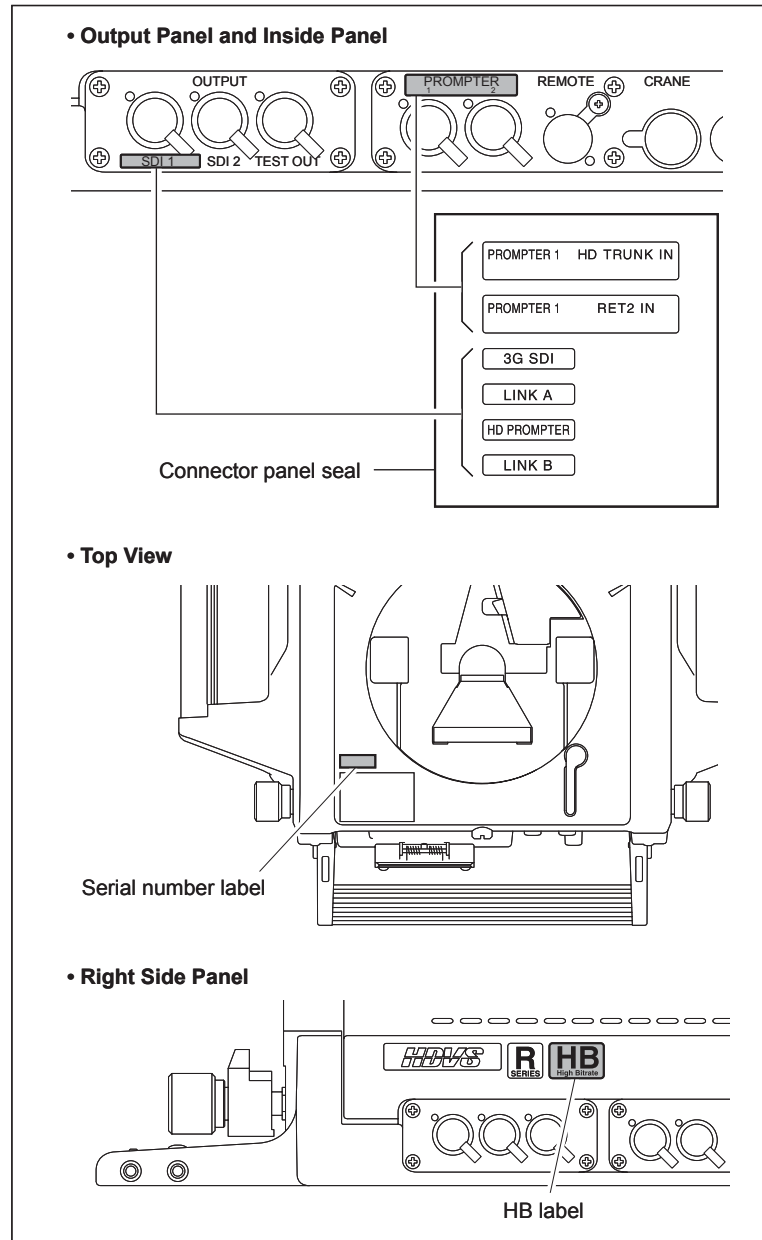
- Upgrade the MAIN program.
(Refer to Section 2-5.)
- Upgrade the PLD version.
(Refer to Section 2-6.)
- SERVICE menu setting
 - (1) Set the DISPLAY switch to "MENU" while pressing the ASSIGNABLE switch and the MENU SELECT switch (ENTER side). The SERVICE menu is displayed in the TOP menu.
 - (2) Set STANDALONE on the S15 RAM FUNCTION page of the SERVICE menu as follows.

When this unit is used as HD TRUNK input or HD-SDI/VBS input in standalone operation

STANDALONE: RET SYNCRO

When this unit is used as PROMPTER2 output

STANDALONE: DOWNCONV



1-2-2. HKC-HB15

Opening the side panels

Inside panel

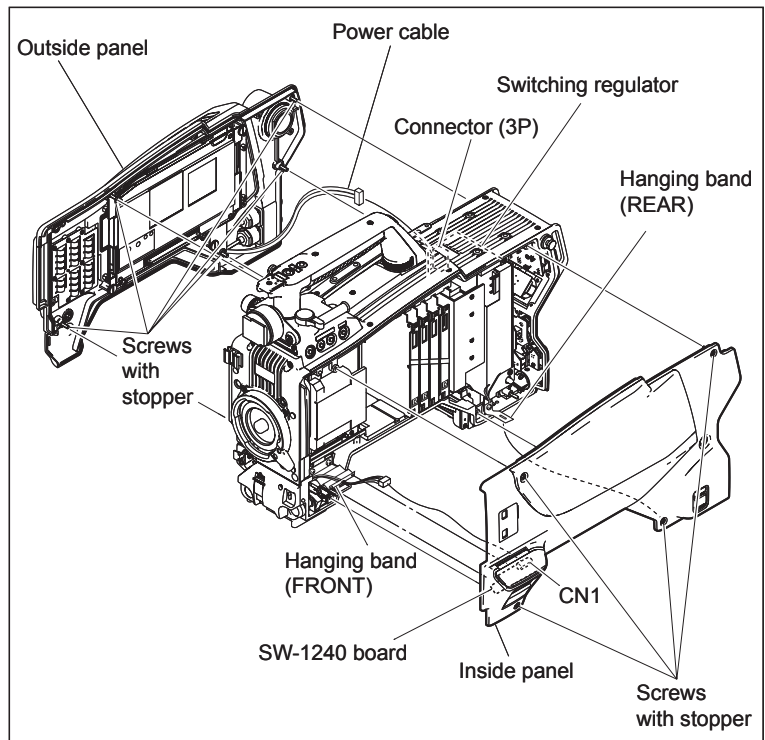
1. Loosen the four screws with stopper and open the inside panel.
2. Release the hanging band (FRONT) and the hanging band (REAR) from the inside panel.
3. Disconnect the harness from the connector CN1 on the SW-1240 board to detach the inside panel.

Note

Use tweezers to disconnect the harness paying attention not to damage it.

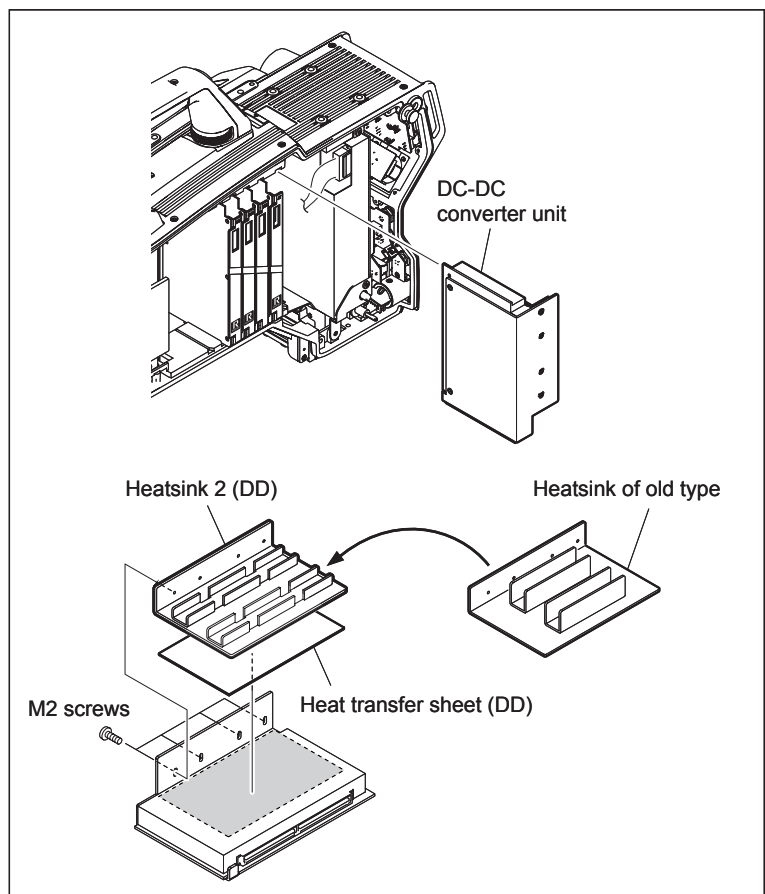
Outside panel

3. Loosen the five screws with stopper and open the outside panel.
4. Disconnect the power cable from the connector (3P) on the switching regulator to detach the outside panel.



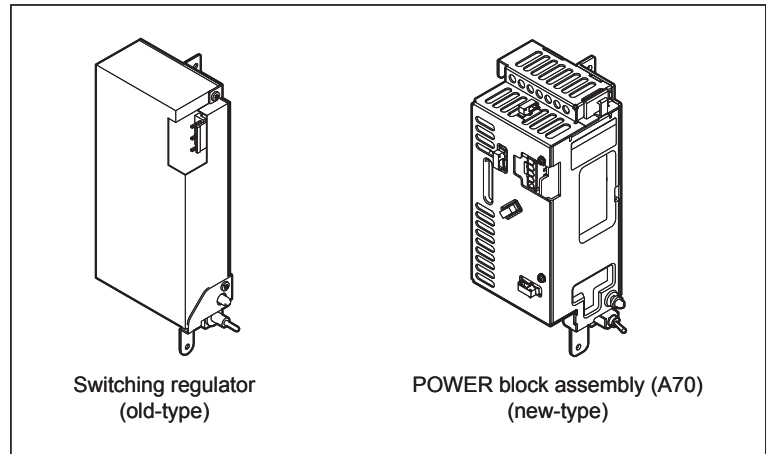
Replacing the heatsink

1. Draw out the DC-DC converter unit along the board rail groove.
2. Check the heatsink type.
If an old-type heatsink is mounted, replace it with a heatsink 2 (DD) using the following procedure.
 - (1) Remove the four screws and remove the old-type heatsink and the heat transfer sheet (DD).
 - (2) Attach the supplied heat transfer sheet (DD) at the location shown in the figure.
 - (3) Secure the heatsink 2 (DD) with four screws.



Removing the power supply unit

If an old-type switching regulator is mounted, replace it with a new POWER block assembly (A70) using the following procedure.

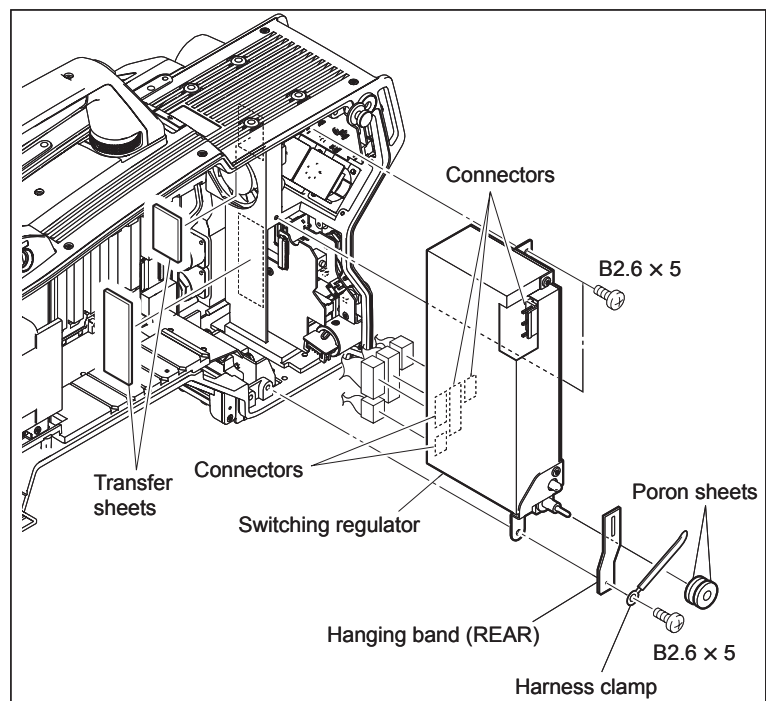


1. Disconnect the harnesses from the five connectors on the switching regulator.
2. Remove the three screws and remove the switching regulator, hanging band (REAR), and the harness clamp.
3. Remove the two Poron sheets from the switching regulator.

Note

The hanging band (REAR), and Poron sheets will be reused. Be careful not to lose them.

4. Completely remove the heat transfer sheets from the chassis.

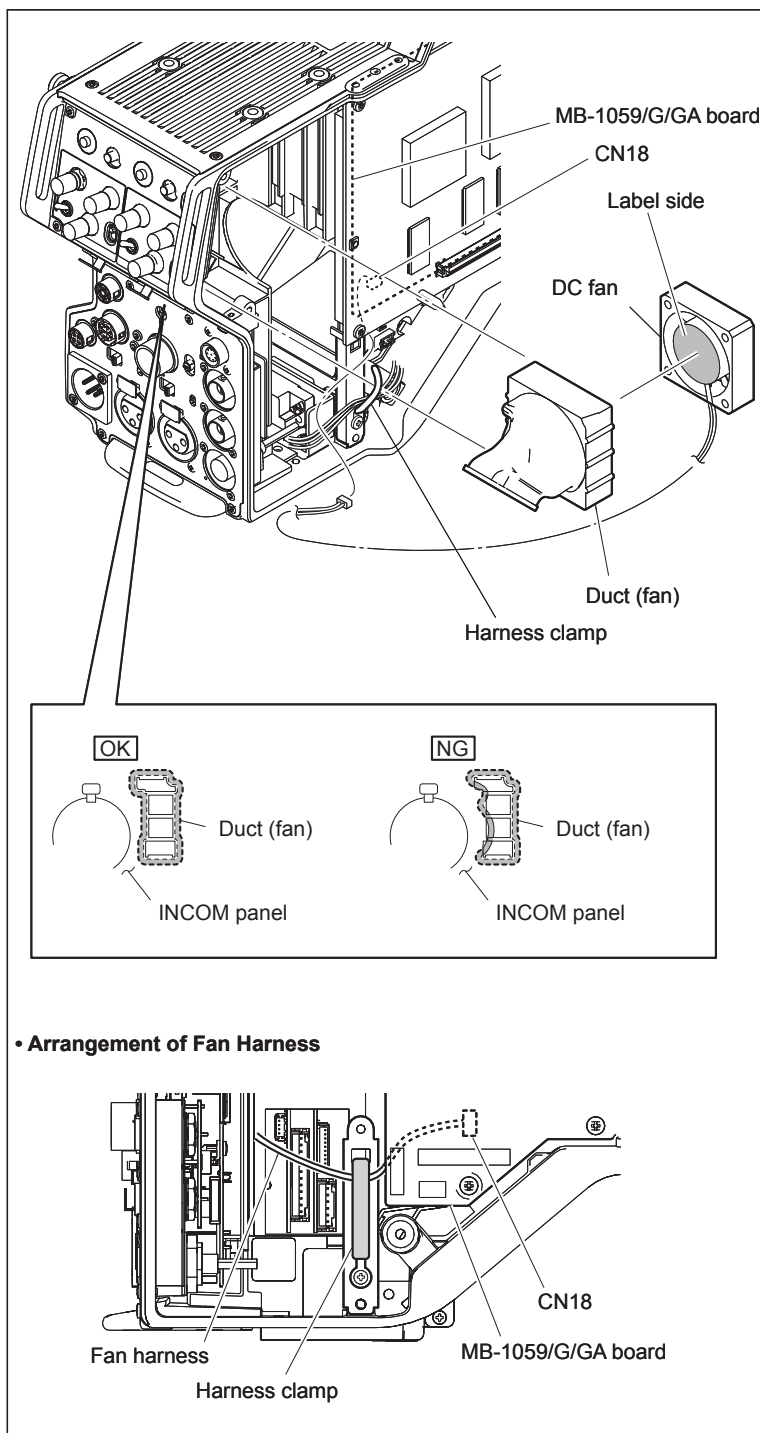


Replacing the DC fan

1. Disconnect the fan harness from the connector CN18 on the MB-1059/G/GA board.
2. Remove the fan harness from the harness clamp and remove the duct (fan).
3. Remove the DC fan from the duct (fan).
4. Install the supplied DC fan by reversing the steps of removal.

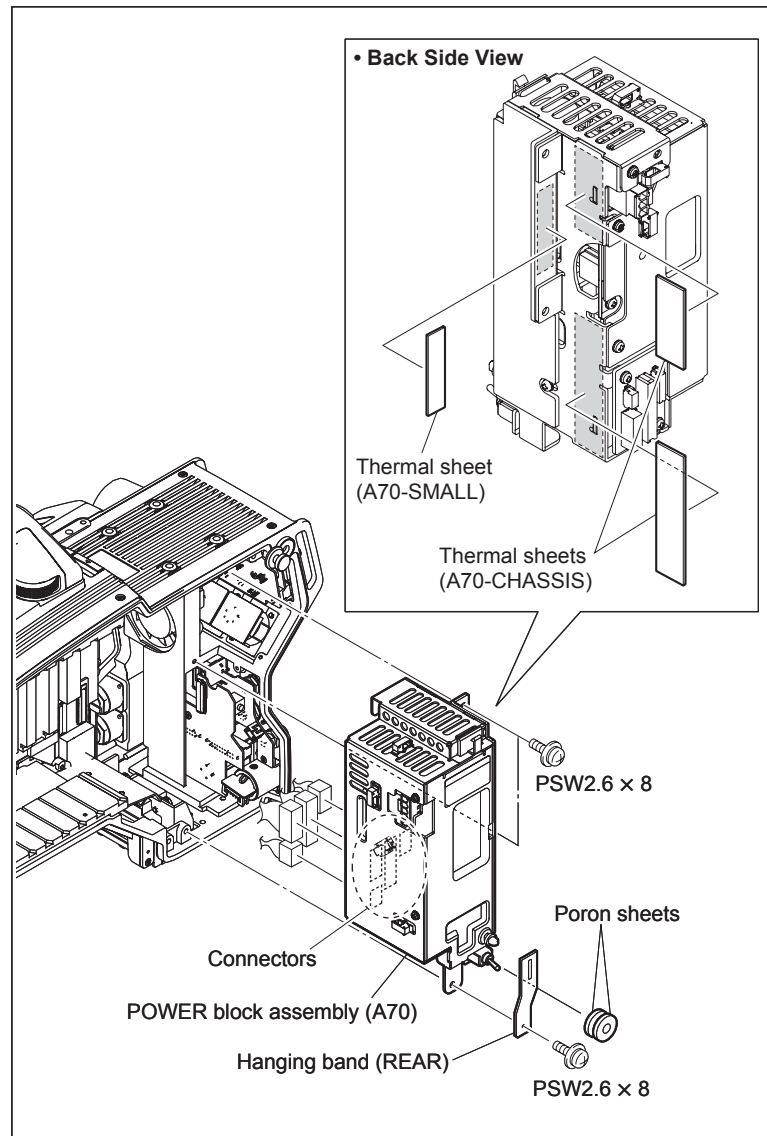
Notes

- Be careful of the orientation of the label side and the harness when installing the DC fan.
- Install the duct (fan) properly to the INCOM panel so as not to block the air vent.
- Arrange the fan harness as shown in the figure.

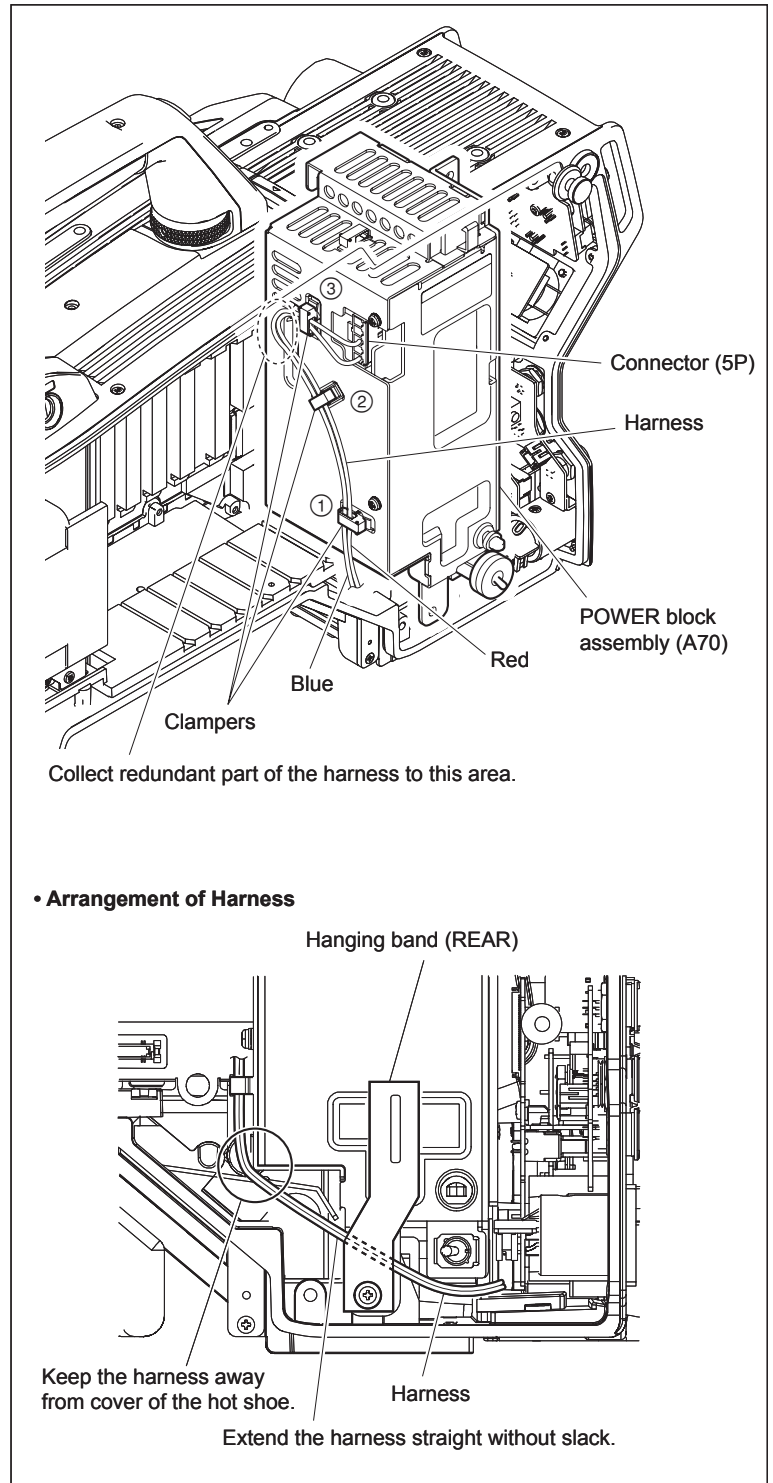


Installing the power supply unit

1. Attach the supplied thermal sheet (A70-SMALL) and the thermal sheet (A70-CHASSIS) to the locations of the POWER block assembly (A70) shown in the figure.
2. Secure the POWER block assembly (A70) and the hanging band (REAR) with the supplied three screws.
3. Attach the two Poron sheets to the POWER block assembly (A70).
4. Connect the harnesses to the four connectors on the POWER block assembly (A70).

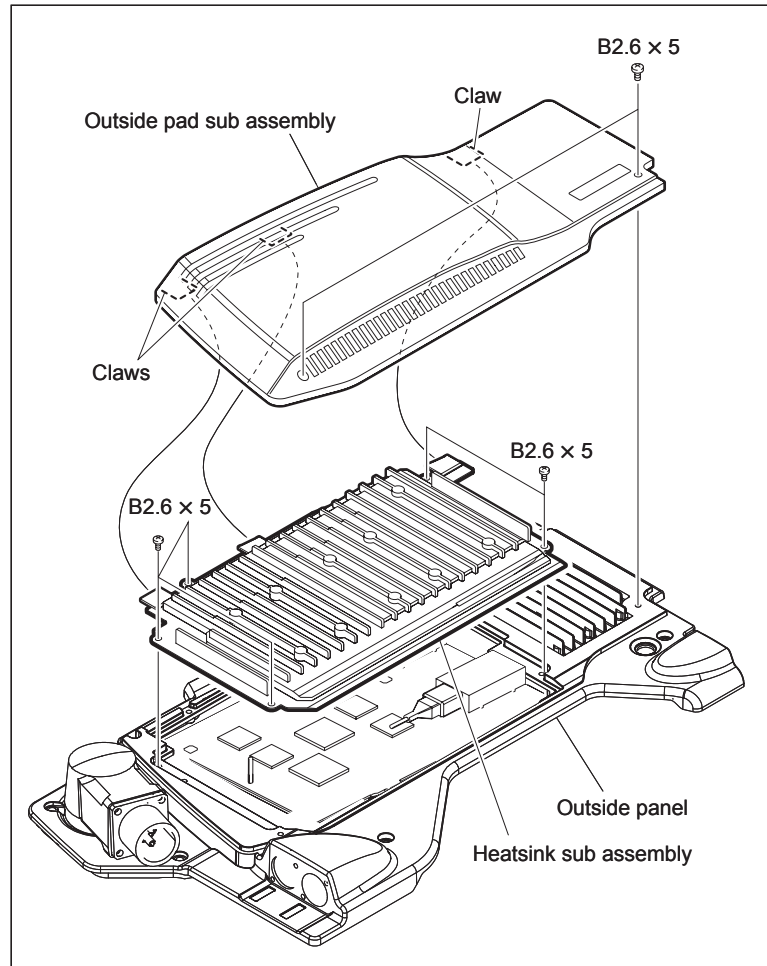


5. Connect the harnesses to the connector (5P) on the POWER block assembly (A70).
6. Arrange the harnesses as shown in the figure and clamp them with the three clampers in the order shown in the figure.
7. Insert the DC-DC converter unit along the board rail groove.
(Refer to “Replacing the heatsink.”)



Removing the optical multi cable assembly

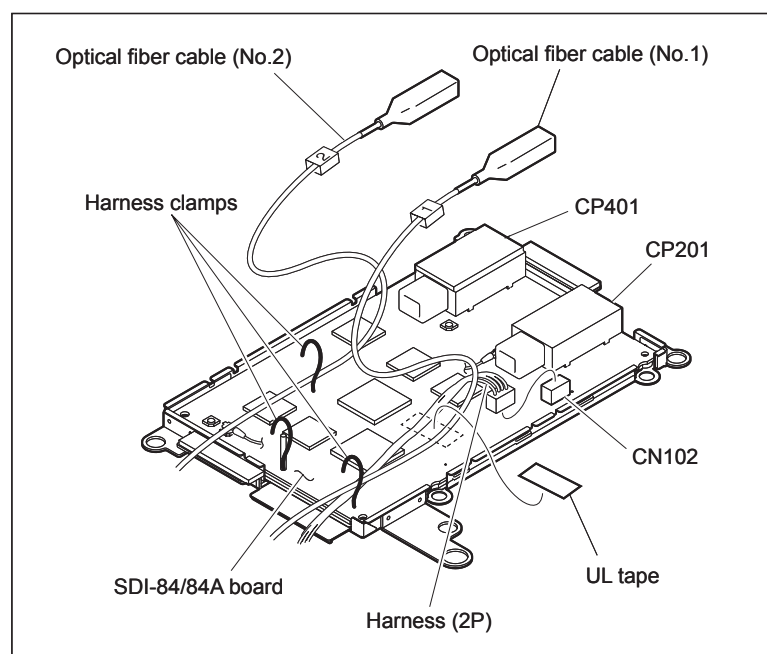
1. Remove the two screws.
2. Release the three claws from the holes in the heatsink sub assembly, and remove the outside pad sub assembly.
3. Remove the five screws and remove the heatsink sub assembly.



4. Remove the UL tape from the SDI-84/84A board.
5. Release the harness and cables from the three harness clamps.
6. Disconnect the harness (2P) from the connector CN102 on the SDI-84/84A board.
7. Disconnect the optical fiber cables from the E/O converter module CP201 and the O/E converter module CP401 on the SDI-84/84A board.

Notes

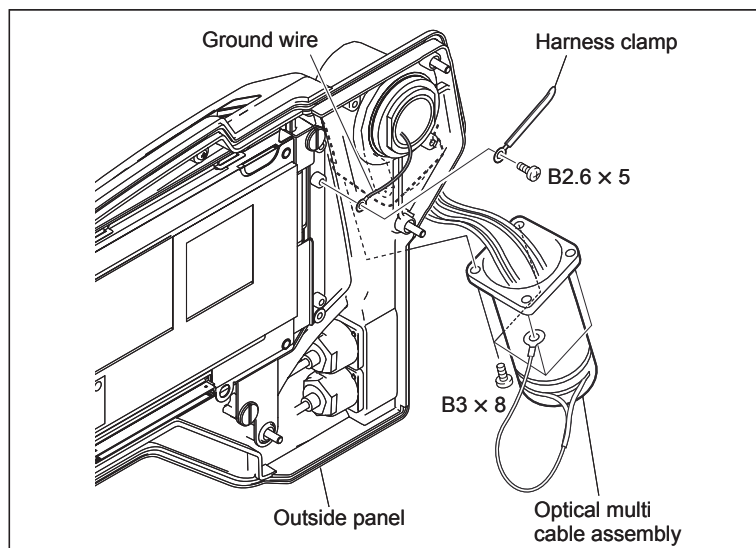
- If optical fiber cable is bent or pulled strongly, it may be disconnected. Handle optical fiber cables carefully.
- Do not touch the tip of the optical fiber cable. This may result in deterioration of signals.



8. Remove the screw and remove the harness clamp and the ground wire of the optical multi cable assembly.
9. Remove the four screws and pull out the optical multi cable assembly.

Note

Clean the removed optical multi cable, and then connect it to the SDI-84/84A board and send it back to the customer.



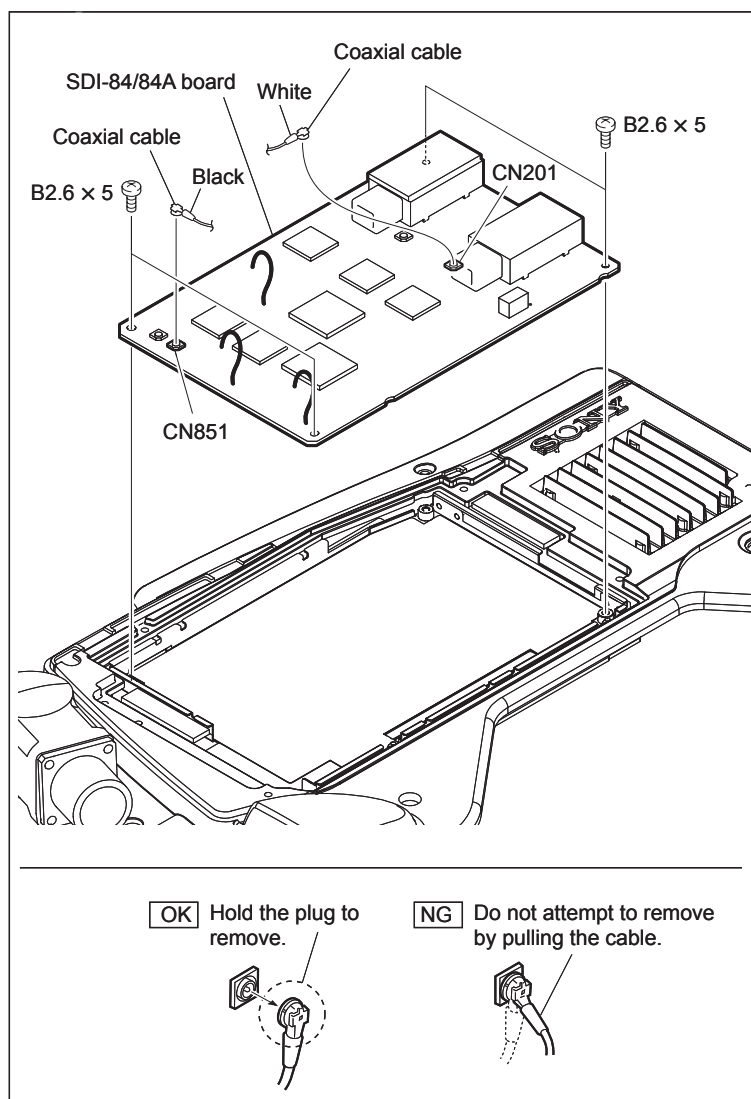
Removing the SDI-84/84A board

1. Disconnect the coaxial cables from the connectors CN201 and CN851 on the SDI-84/84A board.

Note

Be sure to hold the plug when disconnecting the coaxial cable. Do not pull the cable.

2. Remove the four screws and remove the SDI-84/84A board.



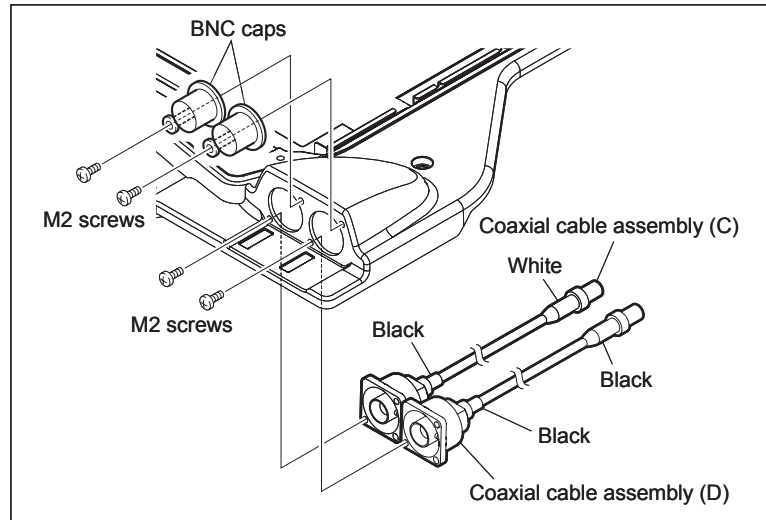
Replacing the coaxial cables

1. Remove the two screws, and detach the BNC cap, the SDI1 connector, and the coaxial cable.
2. Remove the two screws, and detach the BNC cap, the PROMPTER2 connector, and the coaxial cable.

Note

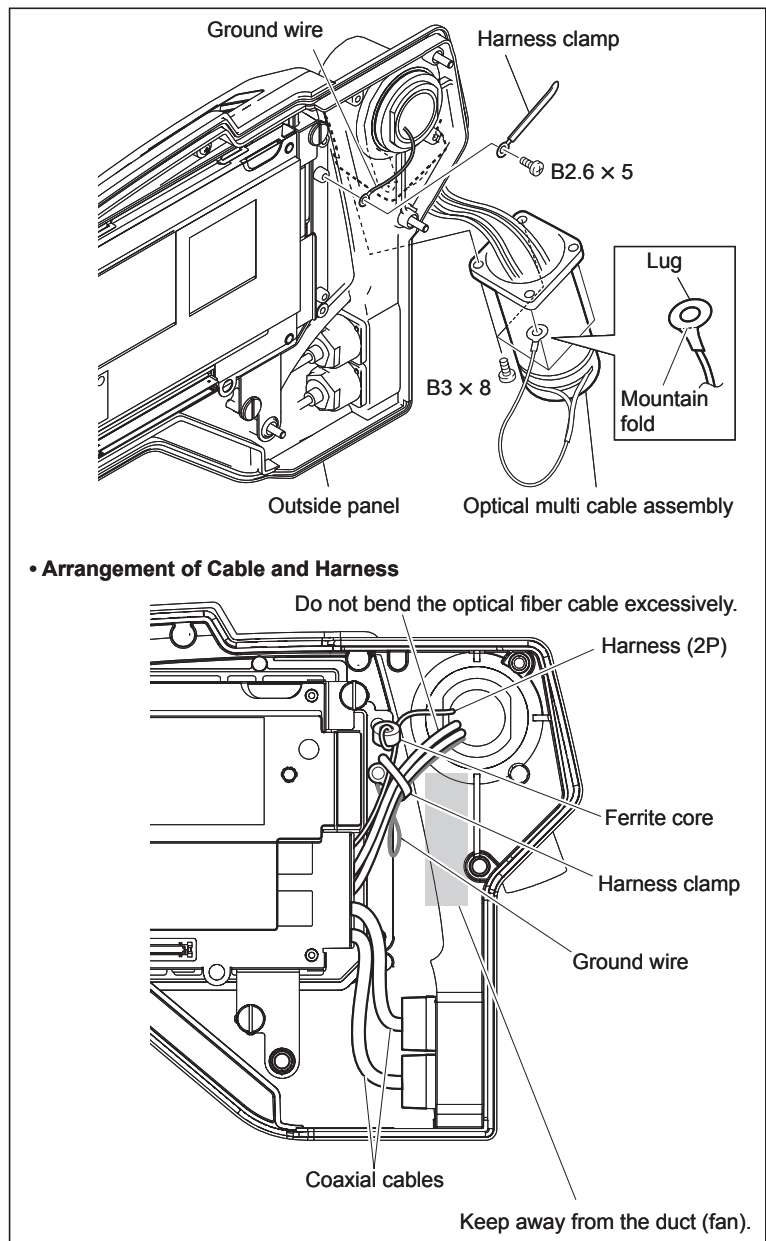
In the case of HDC1400R, remove the four screws to detach the blank panel.

3. Secure the coaxial cable assembly (C) and the BNC cap with two screws.
Determine the coaxial cable assembly to be used by the heat-shrinkable tube color of the coaxial cable assembly.
 - Coaxial cable assembly (C)
Panel side: Black Board side: White
 - Coaxial cable assembly (D)
Panel side: Black Board side: Black
4. Secure the coaxial cable assembly (D) and the BNC cap with two screws.



Installing the optical multi cable assembly

1. Pass the optical multi cable assembly through the hole in the outside panel, and secure it with four screws.
2. Bend the lug of the optical multi cable assembly as shown in the figure.
3. Secure the ground wire of the optical multi cable assembly and the harness clamp with a screw.
4. Arrange the optical fiber cable, harness (2P), and the ground wire as shown in the figure, and clamp them with the harness clamp.
5. Arrange the coaxial cables as shown in the figure.



Installing the SDI-95 board

1. Secure the SDI-95 board with supplied four screws in the order shown in the figure.
2. Connect the harness (2P) to the connector CN102 on the SDI-95 board.
3. Connect the coaxial cable assembly (C) to the connector CN602 on the SDI-95 board.
4. Connect the coaxial cable assembly (D) to the connector CN701 on the SDI-95 board.

Note

To use this unit as PROMPTER2 output without inputting HD TRUNK or HD-SDI/VBS in standalone operation, connect the coaxial cable assembly (D) to the connector CN851 on the SDI-95 board.
(Refer to Section 1-2-3.)

5. Detach the caps of the two optical fiber cables, and connect the cables to the optical module on the SDI-95 board.

Note

Check cable numbers when connecting optical fiber cables, and insert the cable connector as far as it will go.

6. Arrange the optical fiber cables, coaxial cables, and the harness (2P) as shown in the figure, and clamp them with the three harness clamps.
7. Attach the heat transfer sheets (1) at the locations shown in the figure with their darker-color side facing up.

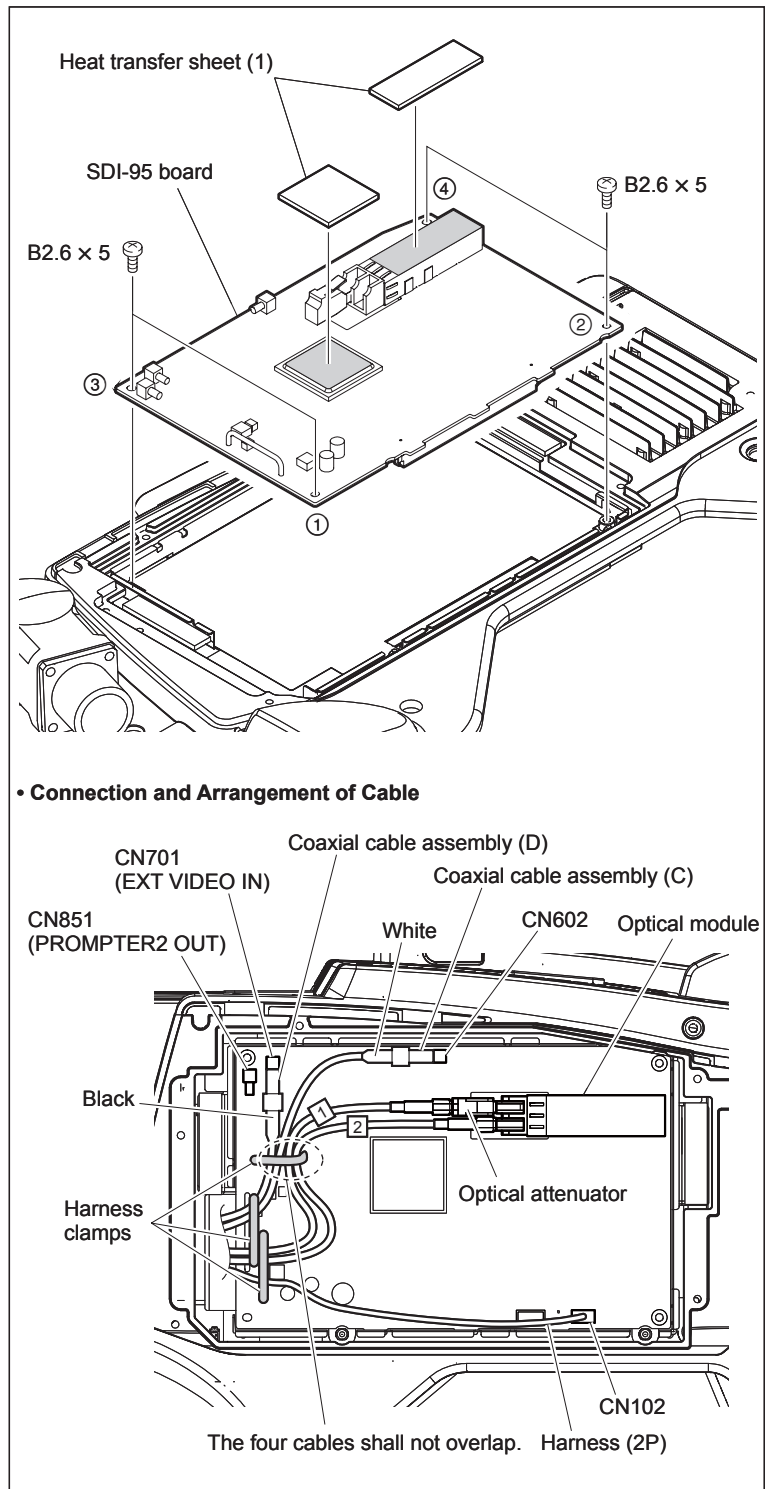
Note

To use this unit as PROMPTER2 output without inputting HD TRUNK or HD-SDI/VBS in standalone operation, set the switch S201 on the SDI-95 board to the following setting. (Refer to "Switches on the SDI-95 board" in Section 1-1.)

S201-2: ON

S201-3: OFF

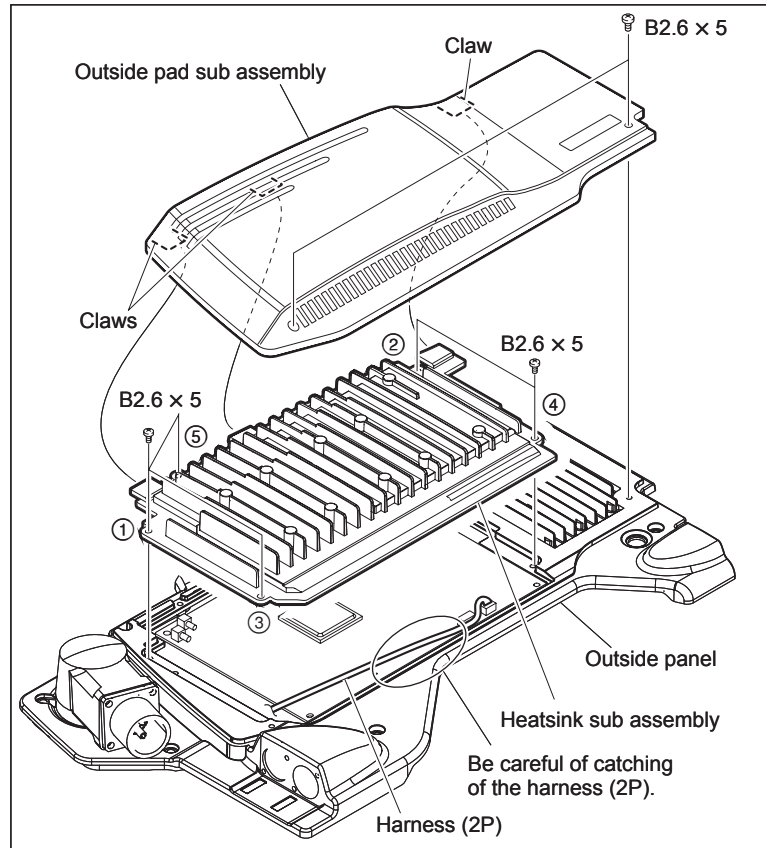
Set switch S201, perform the following installation, and then make the SERVICE menu setting.
(Refer to Section 1-2-3.)



8. Secure the supplied heatsink sub assembly with five screws in the order shown in the figure.

Notes

- Carefully secure the sub assembly so that the harness (2P) is not caught.
 - If the head of the screw is damaged, use the supplied screw (B2.6 × 5).
9. Insert the three claws of the outside pad sub assembly into the holes in the heatsink sub assembly.
 10. Tighten the two screws.



Attaching heat transfer sheets 2

Attaching of heat transfer sheets 2 varies depending on the DPR board installed in this unit.

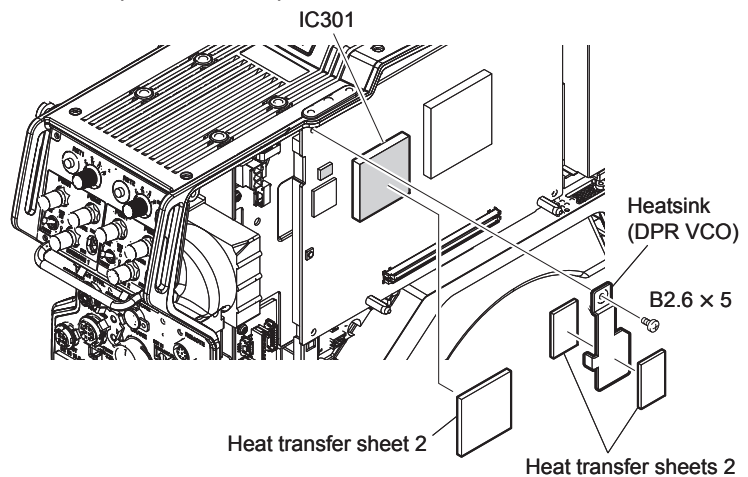
HDC1500 (DPR-265 board)

1. Attach a heat transfer sheet 2 to IC301 on the DPR-265 board with its darker-side facing up.
2. Attach heat transfer sheets 2 to both sides of the supplied heatsink (DPR VCO) with their darker-side facing up.
3. Secure the heatsink (DPR VCO) with the screw securing the DPR-265 board.

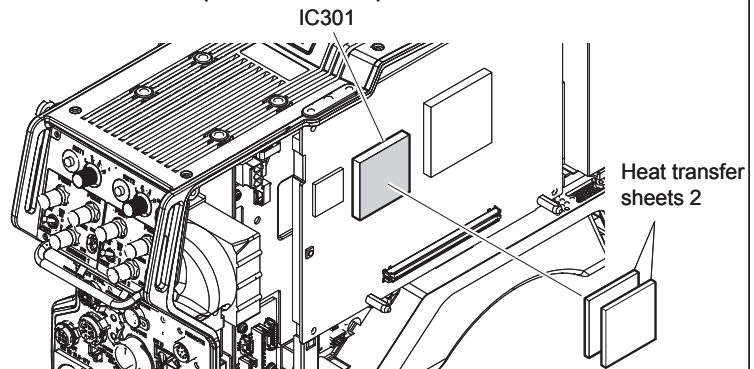
HDC1400R/1500R (DPR-265A board)

1. Attach two heat transfer sheets 2 to IC301 on the DPR-265A board with their darker-side facing up.

• HDC1500 (DPR-265 board)



• HDC1400R/1500R (DPR-265A board)



Closing the side panels

Outside panel

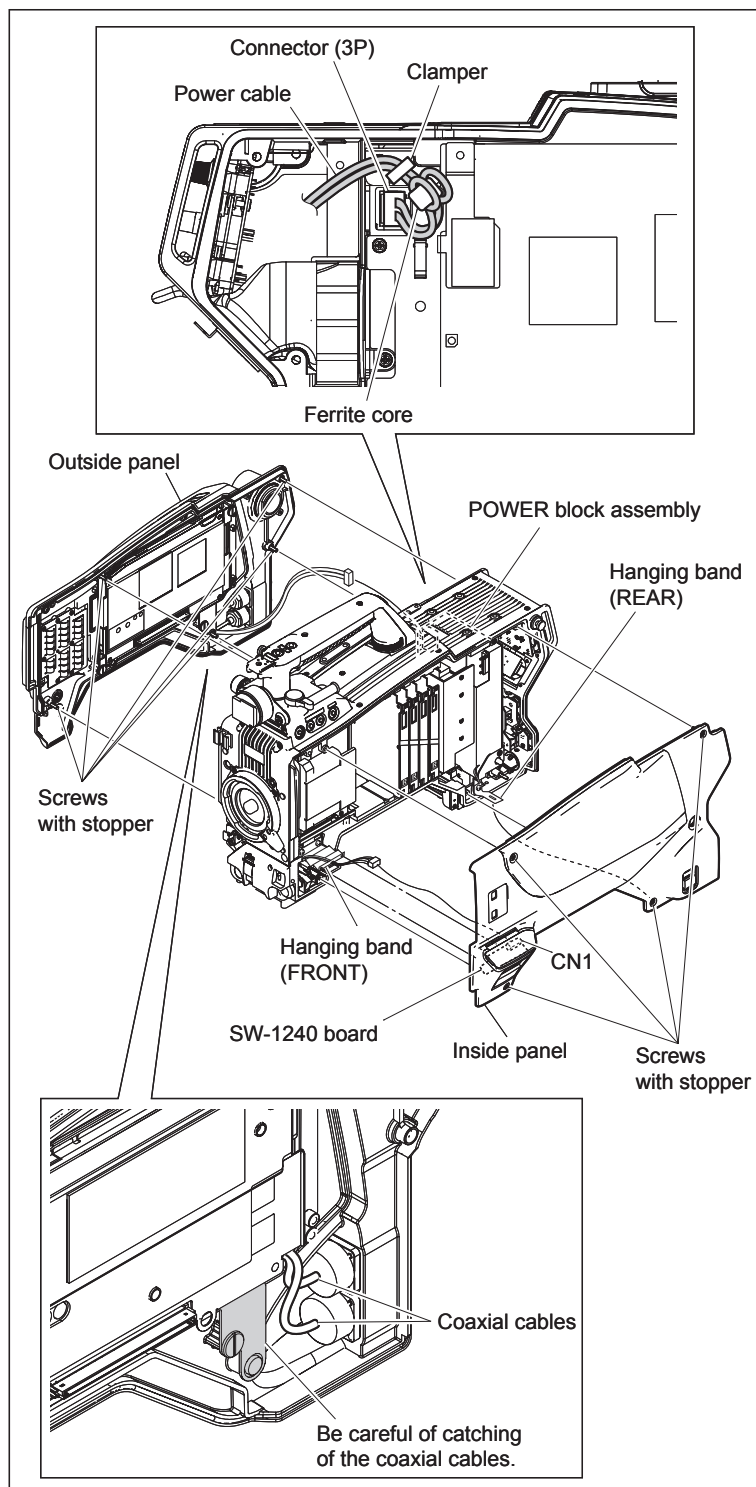
1. Connect the power cable to the connector (3P) on the POWER block assembly.
2. Arrange the power cable as shown in the figure and clamp it with the clumper.
3. Secure the outside panel with five screws with stopper.

Note

Carefully secure the outside panel so that the coaxial cables are not caught.

Inside panel

4. Connect the harness to the connector CN1 on the SW-1240 board.
5. Hook the hanging band (FRONT) and the hanging band (REAR) to the inside panel.
6. Secure the inside panel with four screws with stopper.



Attaching labels

Attach the BNC label, HB label, and serial number label at the locations shown in the figure.

Note

Attach the BNC label and the HB label according to the customer's requirement.

Actions to be taken after installing this kit

Perform the following after this kit is installed.

- Upgrade the MAIN program.
(Refer to Section 2-5.)
- Upgrade the PLD version.
(Refer to Section 2-6.)
- SERVICE menu setting
 - (1) Set the DISPLAY switch to "MENU" while pressing the ASSIGNABLE switch and the rotary encoder.
The SERVICE menu is displayed in the TOP menu.
 - (2) Set STANDALONE on the S15 RAM FUNCTION page of the SERVICE menu as follows.

When this unit is used as HD TRUNK input or HD-SDI/VBS input in standalone operation

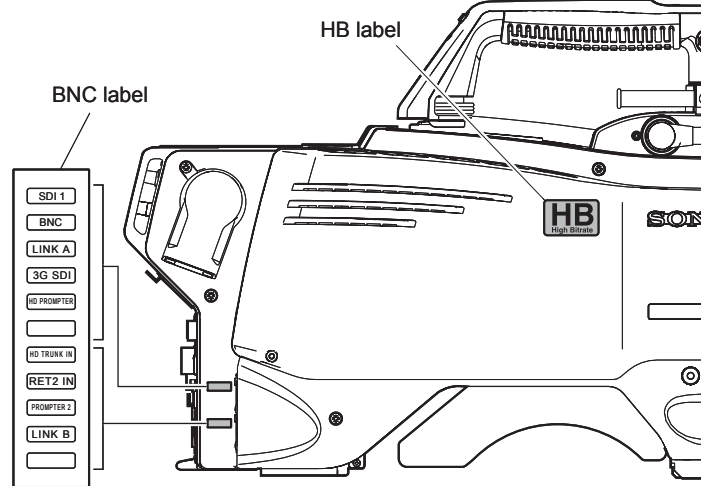
STANDALONE: RET SYNCRO

When this unit is used as PROMPTER2 output

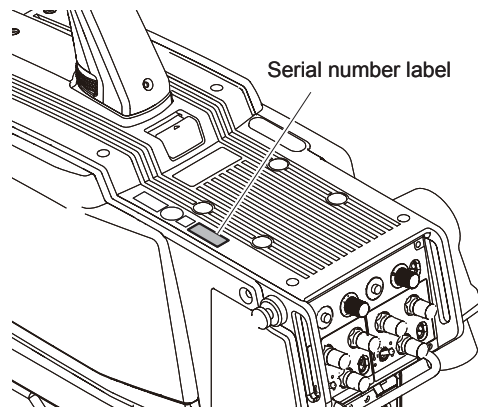
STANDALONE: DOWNCONV

- After this kit is installed to the HDC1400R, remove the SDI terminal label from the rear panel.

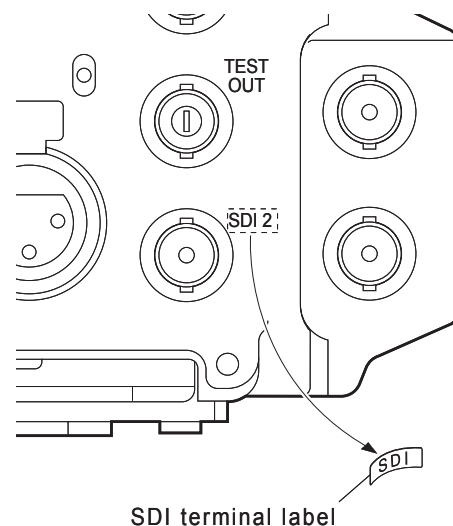
• Outside Panel



• Top Panel



• Rear Panel



1-2-3. When Using This Unit as PROMPTER2 Output

Make the following settings when using this unit as PROMPTER2 output without inputting HD TRUNK or HD-SDI/VBS in standalone operation.

1. Connect the coaxial cable assembly (B) to the connector CN851 on the SDI-95 board.
(Refer to “Installing the SDI-95 board.”)
2. Make the following settings for the switch S201 on the SDI-95 board. (Refer to “Switches on the SDI-95 board” in Section 1-1.)
S201-2: ON
S201-3: OFF
3. (HDC1000/1000R)
Set the DISPLAY switch to “MENU” while pressing the ASSIGNABLE switch and the MENU SELECT switch (ENTER side).

(HDC1500/1500R/1400R)

Set the DISPLAY switch to “MENU” while pressing the ASSIGNABLE switch and the rotary encoder.

The SERVICE menu is displayed in the TOP menu.

4. Set STANDALONE on the S15 RAM FUNCTION page of the SERVICE menu as follows.

When this unit is used as HD TRUNK input or HD-SDI/VBS input in standalone operation

STANDALONE: RET SYNCRO

When this unit is used as PROMPTER2 output

STANDALONE: DOWNCONV

5. Set PROMPTER to “2CH” on the C06 PROMPT/TRUNK page of the CCU Configuration menu.

Section 2

Service Overview

2-1. Checking before Installation

2-1-1. HDCU Format Setting

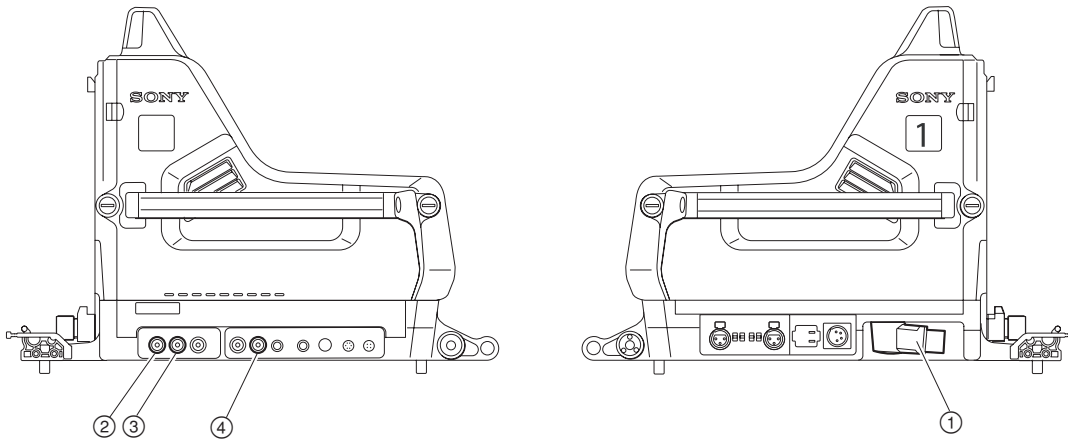
No necessary setting.

2-2. Connectors and Cables

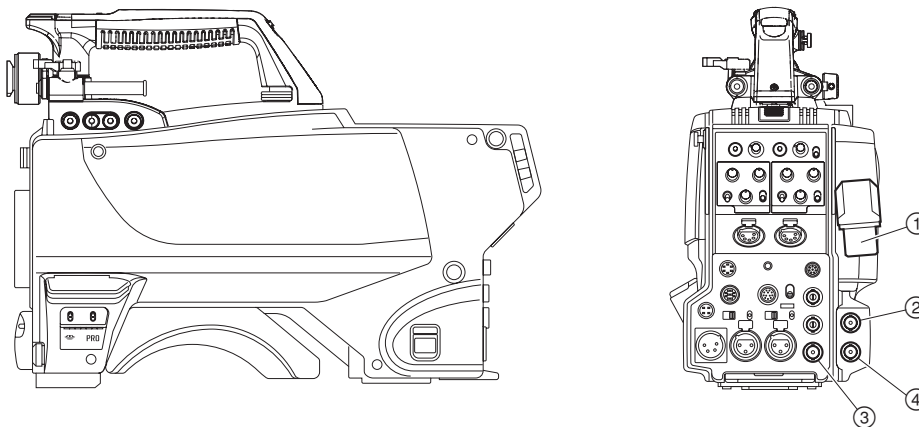
2-2-1. Connector Input/Output Signals

Connector Layout

- HDC1000, HDC1000R + HKC-HB10



- HDC1500, HDC1400R/1500R + HKC-HB15



Input/Output Signal

① CCU

3.7125 Gbps/3.70889 Gbps/1.485 Gbps/1.4835 Gbps serial

Output Signals

② SDI 1

BNC type

3G SDI signal

SMPTE 424M/425M-B compliant

0.8 Vp-p 75 Ω , 2.97 Gbps/2.9679 Gbps serial

or

HD SDI signal

SMPTE 292M/372M, BTA-S004 compliant

0.8 Vp-p 75 Ω , 1.485 Gbps/1.4835 Gbps serial

③ SDI 2

BNC type

HD SDI signal

SMPTE 292M/372M, BTA-S004 compliant

0.8 Vp-p 75 Ω , 1.485 Gbps/1.4835 Gbps serial

or

SD SDI serial

SMPTE 259M compliant

0.8 Vp-p 75 Ω , 270 Mbps serial

④ HD TRUNK IN (PROMPTER2)

BNC type

(input: factory setting)

HD TRUNK IN mode, EXT RET IN (HD-SDI) mode

HD SDI signal: SMPTE 292M, BTA S-004 compliant

1.485 Gbps/1.4835 Gbps serial

or

EXT RET IN (VBS) mode

Analog composite signal: 1.0 Vp-p 75 Ω

(output: changed the setting)

PROMPTER2

1.0 Vp-p 75 Ω

2-2-2. Connection Connectors/Cables

Connection made with the connector panels during installation or service, should be made with the connectors/complete cable assemblies specified in the following list, or equivalent parts.

Indication	Connection connector/cable
CCU	LEMO® FUW. 3K. 93C. TLMC96 or Tajimi Electronics Co.,Ltd. OPS2404-R
SDI 1/2 HD TRUNK IN (PROMPTER2)	1-569-370-12 Plug, BNC

2-2-3. Note in Connecting CCU Connector

It is recommendable to clean the optical contact portions mentioned below before connecting this unit to the camera control unit.

- CCU connector of this unit
- CAMERA connector of the camera control unit
- Optical/Electrical cable

For details on a cleaning method, refer to “Cleaning of Connector/Cable” in Section 2-3.

2-3. Cleaning of Connector/Cable

The photo receptive condition of the optical connector can be checked at OPTICAL CONDITION of the DTX board of the camera control unit.

When lit in green: Normal (−16 dBm or above)

When lit in yellow: Normal (−16 to −19 dBm)

When lit in red: Abnormal (Less than −19 dBm)

When lit in red, be sure to clean the optical contact portions.

When lit in yellow, cleaning is recommended.

The attenuation of the photo-receptive level may cause transmission error between the camera and HDCU. In the case of attenuation, be sure to clean optical contact portions proceeding as follows.

The optical contact portions exist in the optical connector on the camera or HDCU, and in the optical/electrical cables.

2-3-1. When the Optical Connector Cleaner (Commercially Available) is Available

Tools required

- Optical connector cleaner (commercially available)

Product name: CLETOP® stick type

14100402 or 14100403 or equivalent

14100402: 2.0 mm

14100403: 2.0/2.5 mm double ended

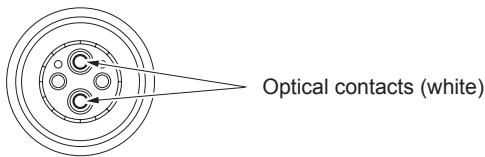
Notes

- Alcohol is not necessary during cleaning.
- Number of possible wipes is one cleaning per a piece. Do not reuse it.

Cleaning procedure

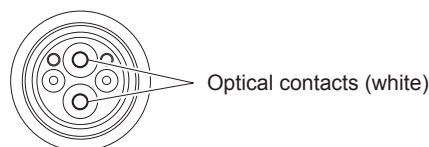
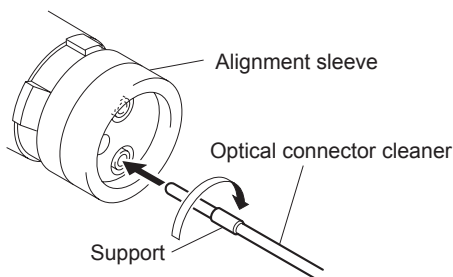
[Male connector]

Clean the tip of the white optical contacts using the optical connector cleaner.



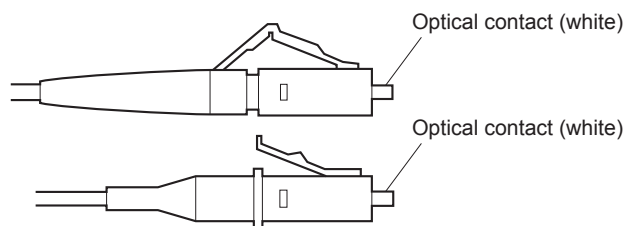
[Female connector]

1. Insert the optical connector cleaner straight. Ensure that it is held straight when inserting.
2. Apply sufficient pressure (approximately 600 g to 700 g) to ensure that the optical contact is a little depressed.
3. While pressing the optical connector cleaner against the tip of the white optical contact, rotate the optical connector cleaner by 4 to 5 turns clockwise. Holding the optical connector cleaner at around its support facilitates to apply the pressure.



[LC type connector]

Clean the tip of the white optical contacts using the optical connector cleaner.



2-3-2. When the Optical Connector Cleaner (Commercially Available) is not Available

Cleaning connectors/cables of LEMO

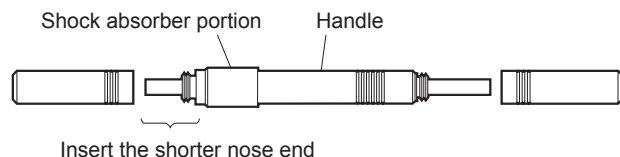
Clean the LEMO connectors and cables using the following procedure.

Tools required

- Alignment sleeve remover HC-001 (for female connector)
Sony P/N: J-6480-010-A or
DCC.91.312.5LA or manufactured by LEMO, or equivalent

Note

Insert the shorter nose end when removing/installing the alignment sleeve.
Grasp not the shock absorber portion of the remover but the handle in use.



- Alcohol (commercially available)
- Cotton swabs (commercially available)

Note

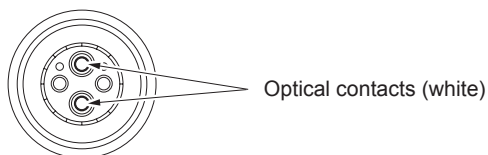
Use a cotton swab whose diameter is about 4 mm.

If a cotton swab whose diameter exceeds 5 mm is used, the cotton swab cannot be inserted into the end of the connector and the tip of the optical contact cannot be cleaned.

Cleaning Procedure

[Male connector]

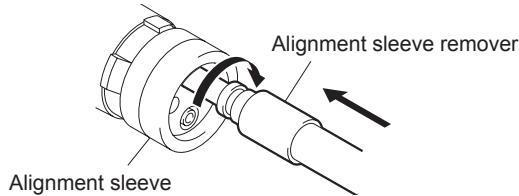
Clean the tip of the white optical contacts with a cotton swab moistened with alcohol.



[Female connector]

The optical contacts for female connector are in an unexposed state. In cleaning, it is necessary to be exposed by removing the alignment sleeve in advance. Proceed as follows.

1. Insert the alignment sleeve remover into the alignment sleeve in the straight line and turn it clockwise.



2. When the turn stops, pull out the remover in the straight line forcibly.

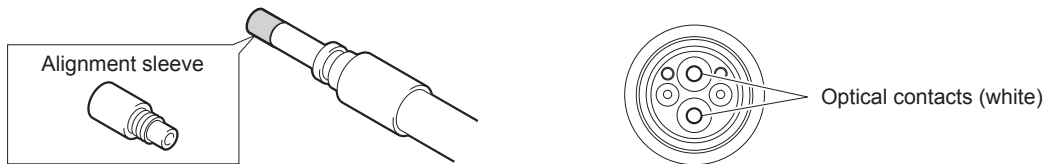
Note

The alignment sleeve can be removed/reinstalled with the sleeve itself attached to the tip of the remover.

Great care should be taken so as not to lose or damage the alignment sleeve.

(Alignment sleeve: Sony P/N 9-980-074-01)

3. Clean the tip of the white optical contacts with a cotton swab moistened with alcohol.



4. Insert the remover with the alignment sleeve attached to its tip, and push it until it clicks.
5. Rotate the remover counterclockwise to install the alignment sleeve, and extract the remover.

Cleaning connectors/cables of Tajimi Electronics Co., Ltd.

Clean the connectors and cables of Tajimi Electronics using the following procedure.

Tools required

- Alcohol (commercially available)
- Cotton swabs (commercially available)

Note

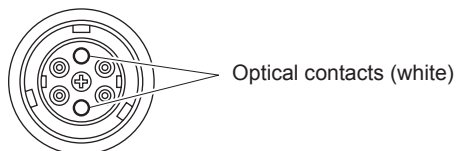
Use a cotton swab whose diameter is about 4 mm.

If a cotton swab whose diameter exceeds 5 mm is used, the cotton swab cannot be inserted into the end of the connector and the tip of the optical contact cannot be cleaned.

Cleaning Procedure

[Male connector]

Clean the tip of the white optical contacts with a cotton swab moistened with alcohol.



[Female connector]

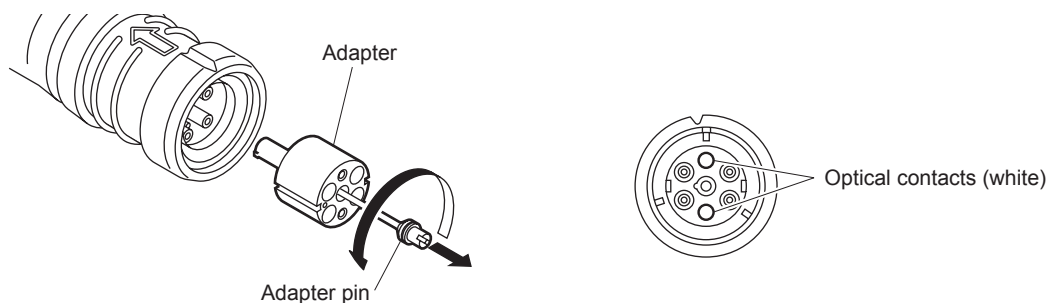
The optical contacts for female connector are in an unexposed state. In cleaning, it is necessary to be exposed by removing the adapter in the connector in advance. Proceed as follows.

1. Loosen the adapter pin at the center of the connector counterclockwise with a screwdriver.

Note

If there is no screwdriver, use the plate attached to the connector cap.

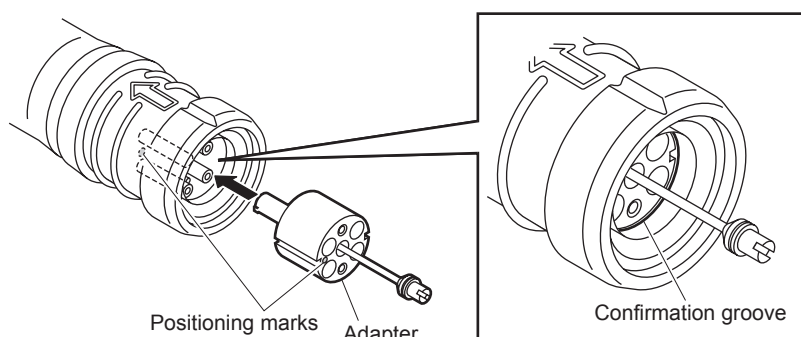
2. Pull the adapter pin out of the connector in the arrow direction.
3. Clean the white optical contacts with a cotton swab moistened with alcohol.



4. Match the positioning marks of the adapter and the connector, and then push the adapter into the connector.

Note

Push the adapter until the confirmation groove comes in sight as shown in the figure.



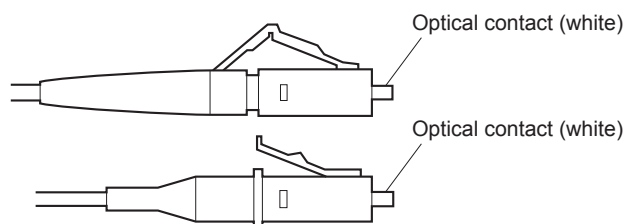
5. Tighten the adapter pin clockwise until you feel that it is fixed to some extent.

Note

Do not fully tighten the adapter pin.

LC type connector

Clean the tip of the white optical contacts with a cotton swab moistened with alcohol.



2-4. Notes on Replacement of Circuit Board

2-4-1. Description on EEPROM Data

The table below gives the stored data of EEPROM on the SDI-95 board.

Board name	Ref.No.	Stored data
SDI-95	IC503	PLD data

Note

The IC listed above cannot be replaced with a new one because it is the EEPROM that is the storing data inherent in the board. The part number listed in “Spare Parts” is for EEPROM which is not programmed. If replacement is needed, contact your local Sony Sales Office/Service Center.

2-5. Upgrading the MAIN program

The MAIN program can be upgraded using the Memory Stick.
For upgrading the MAIN program, follow the procedure shown below.

Tool

Memory Stick

Preparation

Copy the upgrading program to the Memory Stick in the following steps.

Note

To get the upgrading program “hdc1000.rom”, contact your local Sony Sales Office/Service Center.

1. Make the following directory on the Memory Stick.
\\MSSONY\\PRO\\CAMERA\\HDC1000
2. Copy the program file “hdc1000.rom” to the directory made by step 1.

(HDC1000, HDC1000R) + HKC-HB10

1. Open the right side panel. (Refer to Section 1-2-1.)
2. Set the switch S1-4 on the AT-163/163A board to “ON”.
3. Insert the Memory Stick in which the upgrading program is already saved.
4. Turn on the power.
The upgrading status is displayed on the screen of the viewfinder.
5. When the version upgrade is completed, the message “Complete” will be displayed.
6. Turn off the power, and re-set the switch S1-4 on the AT-163/163A board to “OFF”.

(HDC1500, HDC1400R/1500R) + HKC-HB15

1. Insert the Memory Stick in which the upgrading program is already saved.
2. Turn on the power while pressing the RET 2 button on the camera front and rotary encoder simultaneously.
The upgrading status is displayed on the screen of the viewfinder.
3. When the version upgrade is completed, the message “Complete” will be displayed.

2-6. Writing and Rewriting the PLD Internal Data

This unit uses the PLD (Programmable Logic Device) that supports the e-Production (EPR) system to write and rewrite the internal data.

If the part listed below needs to be replaced or to be upgraded, contact your local Sony Sales Office.

Note

The part number of PLD (or ROM for PLD) in which data is not written yet, is shown in “Spare Parts.”

Therefore, if part replacement is required, write the data by the following procedure.

In the case of the PLD type that runs on the program stored in external ROM, data needs not to be written only by replacing the part if the specific PLD only is defective.

e-Production system has the advantages shown below.

- To write/rewrite the PLD internal data:
 1. The standard fixture (cable) can be used.
 2. The standard software (PLD Download Tool) can be used.
- The PLD internal data is controlled in the Sony Database Server under the name of Project file (E_XXX_XXX_XX_XX).
- The printed circuit board is equipped with the standard connector (EPR connector) to write the PLD internal data. The indication “EPR” is shown on the printed circuit board.

Corresponding PLD

Board name	PLD	EPR connector	Project file No.
DAP-33A (HDC1000R/1400R/1500R)	IC201, IC202 *1	CN2	E_000_004_50_XX *4
SDI-95	IC1, IC503 *2	CN202	E_000_004_90_XX *4
DPR-265A (HDC1000R/1400R/1500R)	IC604, IC601 *3	CN601	E_000_004_52_XX *4

*1: IC202/DA-33A is the ROM for IC201.

*2: IC503/SDI-95 is the ROM for IC1.

*3: IC601/DPR-265A is the ROM for IC604.

*4: The file name changes when upgrading.

Note

The PLD on the DAP-33 board and DPR-265 board of the HDC1000 and HDC1500 need not be upgraded.

Equipment required

- PLD download fixture (Sony part number: J-7120-140-A)
The cable to connect PC to this unit.
- PC
A PC having parallel port.
A PC in which the PLD Download Tool software is already installed.
For the applicable OS and the operating environment, refer to “Download Tool Operating Instruction for Device Programming.”

Data writing procedure

Data writing procedure in the PLD (or ROM for PLD) is outlined below.

For details of data writing procedure, refer to “Download Tool Operating Instruction for Device Programming”, which is available in the same site where the PLD Download Tool software is available.

1. Prepare the Project file.

Note

Download the Project file from the Sony Database Server.

2. Turn off the power of this unit. Connect the PC parallel port to the EPR connector of the target board using the PLD download fixture (cable).
3. Turn on the power of this unit.
Start the Download Tool software and read the Project file.
4. Program the PLD (or ROM for PLD) with the Download Tool software.
5. Upon completion of programming, check that error message is not displayed. Turn off the power of this unit and back on.

2-7. Periodic Check/Replacement Parts

This table does not describe the guarantee period of part.

The replacement period of each part is changed according to the environment and condition.

Refer to the “Section 3 Replacement of Main Parts” for the replacement method of part.

HKC-HB10

Part name	Sony part number	Check/Replacement period
FAN, DC (40 SQUARE)	△1-787-903-11	Replace every two years (When used for eight hours a day.)

HKC-HB15

Part name	Sony part number	Check/Replacement period
FAN, DC (40 SQUARE)	△1-787-611-11	Replace every two years (When used for eight hours a day.)
CUSHION, FAN	4-184-887-01	Replace together with the fan

2-8. Optional Fixtures

Name	Sony part number	Remarks
EX-738 board	A-8327-351-A	For extension of plug-in boards
DPR-197 board extension assembly	A-8344-327-A	For extension of DPR-265/265A and SDI-95 boards
Alignment sleeve remover HC-001	J-6480-010-A	For female connector LEMO® DCC.91.312.5LA or equivalent
PLD download fixture	J-7120-140-A	PLD data download cable

2-9. Circuit Description

SDI-95 board

A digital audio signal and command are multiplexed with the video signal LINK-A in a main channel sent from the DPR-265/265A board. Moreover, the video signal LINK-A in a main channel is multiplexed with the video signal LINK-B in a main channel or the video signal HD TRUNK, converted from parallel to serial, converted from electric to optical, and sent to CCU as a serial optical signal.

The serial optical return video signal sent from CCU is converted from optical to electric and converted from serial to parallel. Next, the HD prompter signal multiplexed with the return video signal, digital audio signal, command, and analog prompter video signal are separated, and the return video signal, digital audio signal, and command are sent to each board.

2-10. Notes on Repair Parts

1. Safety Related Components Warning

WARNING

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

2. Standardization of Parts

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

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.

2-11. 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 3

Replacement of Main Parts

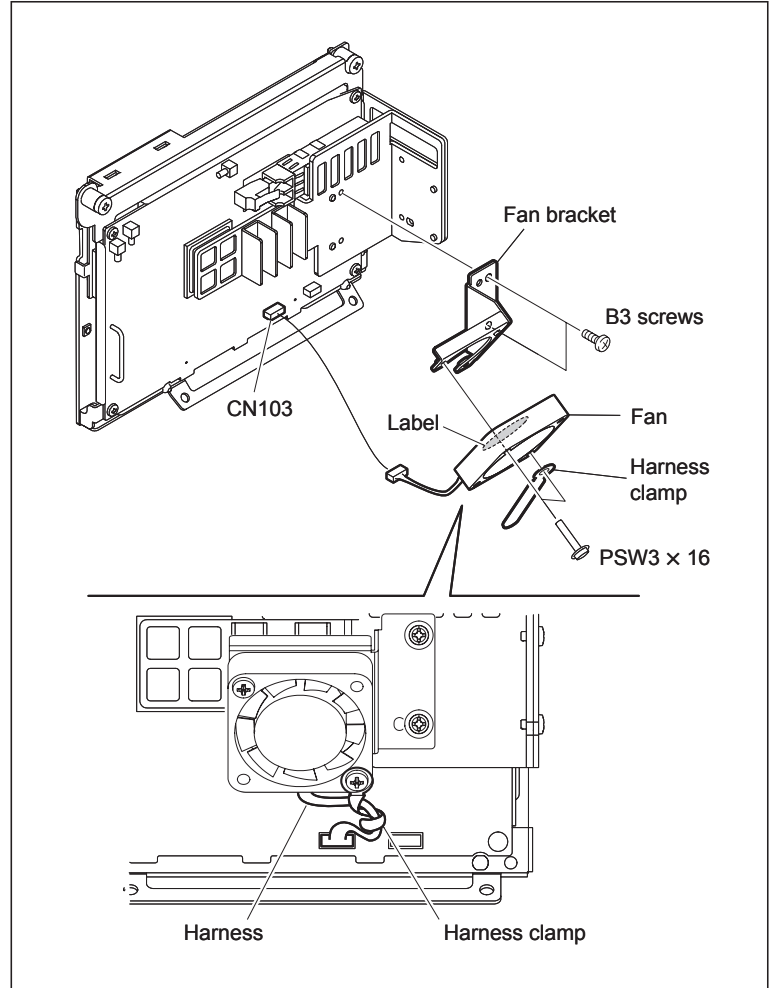
3-1. HKC-HB10

3-1-1. Replacing the Fan (HKC-HB10)

1. Open the left side panel.
(Refer to “Opening the side panels” in Section 1-2-1.)
2. Disconnect the fan harness from the connector CN103 on the SDI-95 board.
3. Remove the two screws (B3 screw) and remove the fan bracket.
4. Remove the two screws (PSW3 × 16) and remove the fan bracket and the harness clamp from the fan bracket.
5. Install a new fan by reversing the steps above.

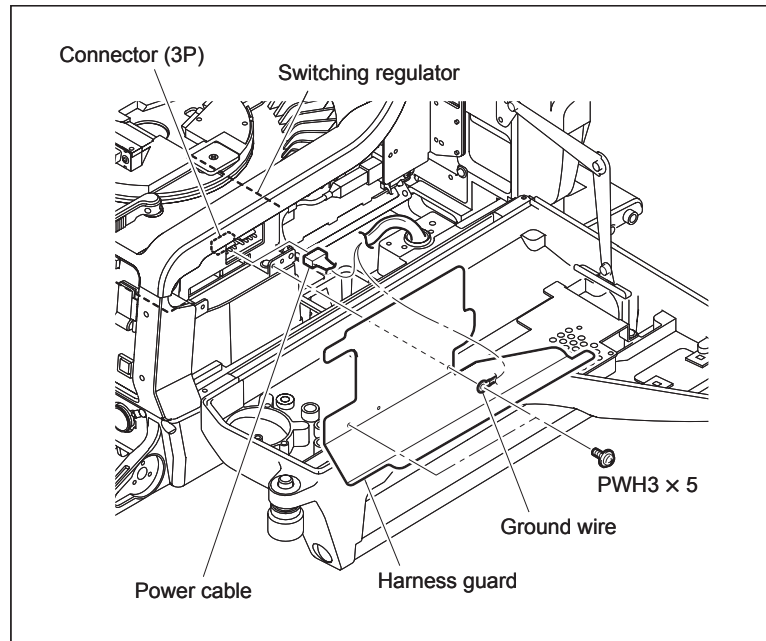
Notes

- Be careful of the orientation of the label side and the harness when installing the fan.
- Arrange the fan harness as shown in the figure.



3-1-2. Replacing the Optical multi Cable Assembly (HKC-HB10)

1. Open the left side panel.
(Refer to “Opening the side panels” in Section 1-2-1.)
2. Remove the two screws and remove the harness guard and the ground wire of the optical multi cable assembly.
3. Disconnect the power cable of the optical multi cable assembly from the connector (3P) on the switching regulator.

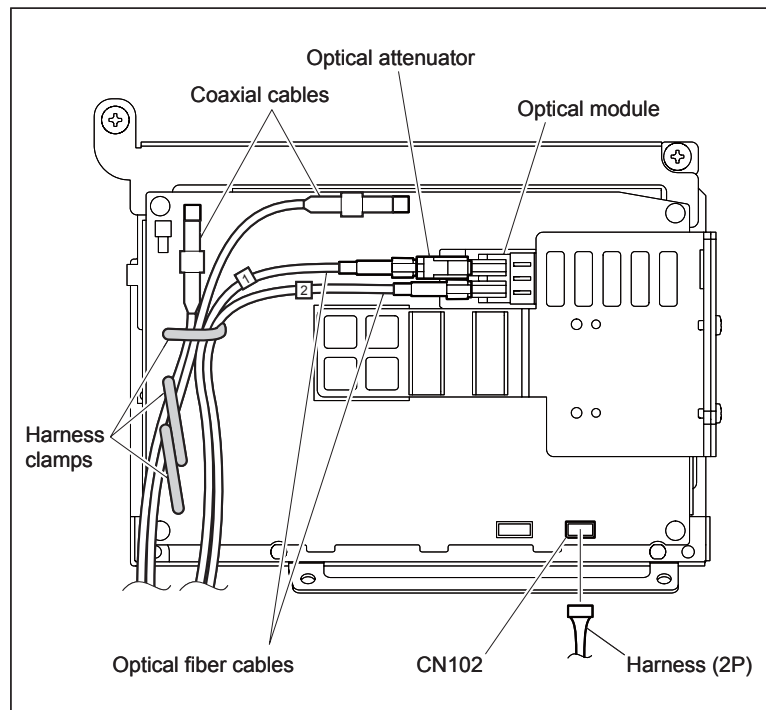


4. Release the cables from the three harness clamps.
5. Disconnect the harness (2P) of the optical multi cable assembly from the connector CN102 on the SDI-95 board.
6. Disconnect the two optical fiber cables from the optical module on the SDI-95 board.

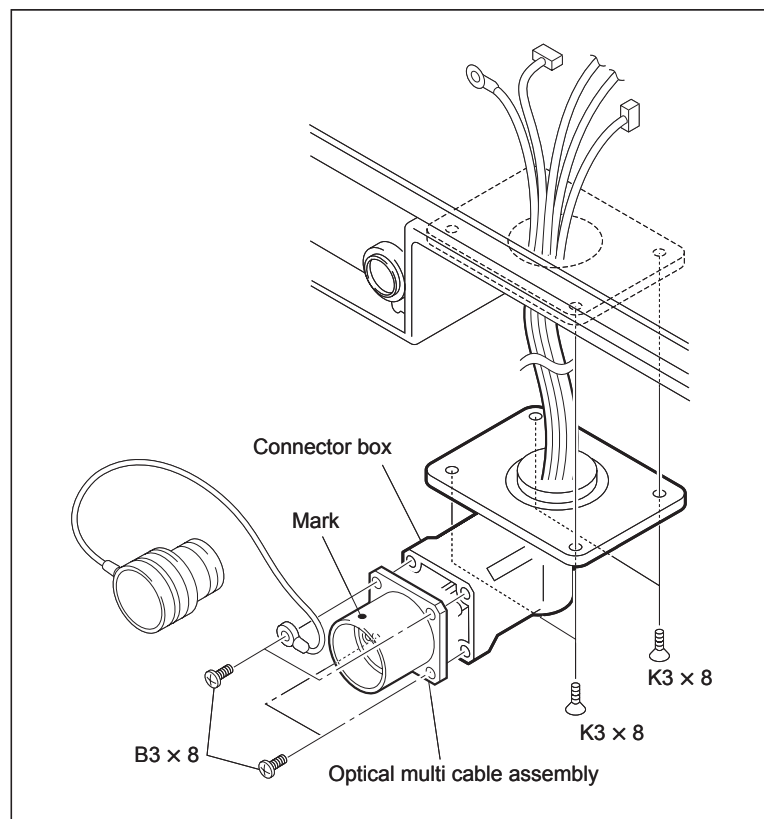
Note

Check cable numbers when connecting optical fiber cables, and insert the cable connector as far as it will go.

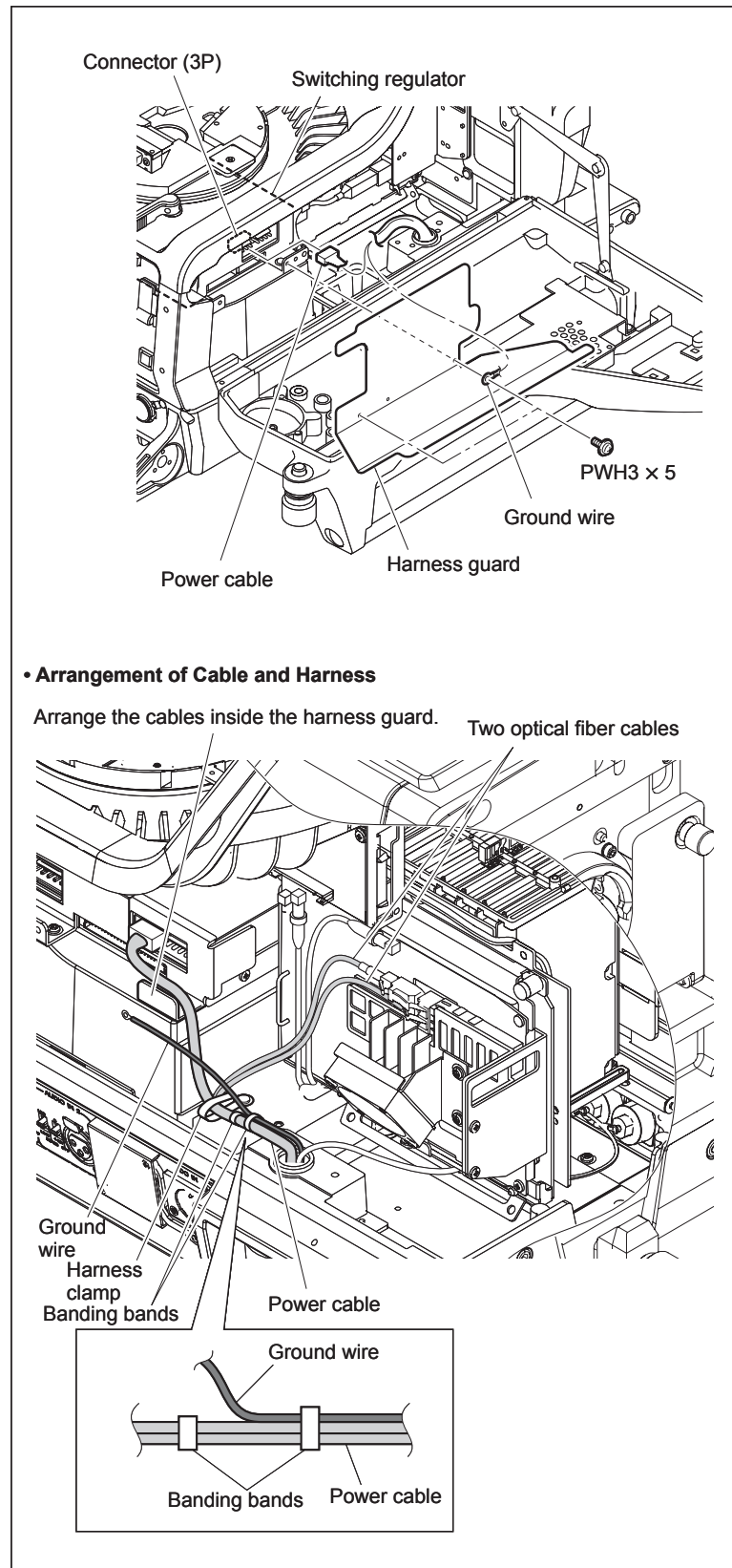
7. Bundle the disconnected cables inside the unit so that they will not be caught by the left side panel.
8. Close the left side panel.



9. Remove the four screws (K3 × 8).
10. Open the left side panel and remove the connector box and the optical multi cable assembly.
11. Remove the four screws (B3 × 8) and pull the optical multi cable assembly out of the connector box.
12. Install a new optical multi cable assembly by reversing steps 4 to 11.



13. Connect the power cable of the optical multi cable assembly to the connector (3P) on the switching regulator.
14. Arrange the power cable and the two optical fiber cables as shown in the figure, and clamp them with the harness clamp.
15. Secure the harness guard and the ground wire of the optical multi cable assembly with two screws.
16. Clamp the power cable and the ground wire with banding bands at the position shown in the figure so that the power cable will not be caught by the fan.
17. Close the left side panel.



3-1-3. Replacing the SDI-95 Board (HKC-HB10)

Removal

1. Open the left side panel.
(Refer to “Opening the side panels” in Section 1-2-1.)
2. Remove the fan and the fan bracket.
(Refer to “Installing the fan” in Section 1-2-1.)
3. Release the two claws and remove the ferrite core from the harness (LENS).
(HDC1000R only)
4. Remove the two screws on the lens side.

Note

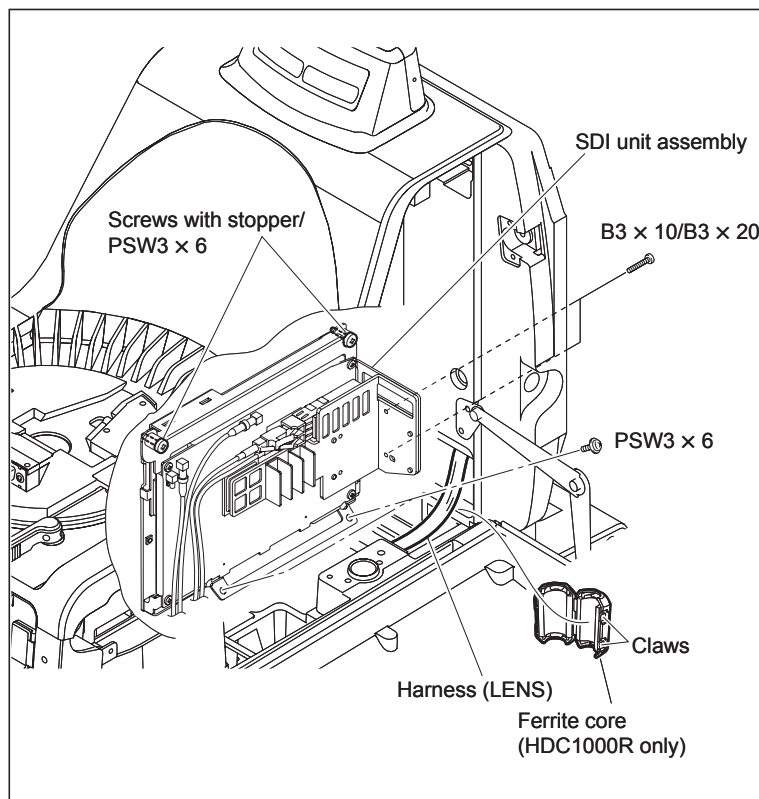
The length of the screws in use varies depending on the lens mounting system.

- Sony mounting system: B3 × 10
- Center mounting system: B3 × 20

5. Loosen the two screws with stopper (upper) and remove the two screws (lower).

Note

Normal screws (PSW3 × 6) are used instead of the two screws with stopper (upper) in some models.



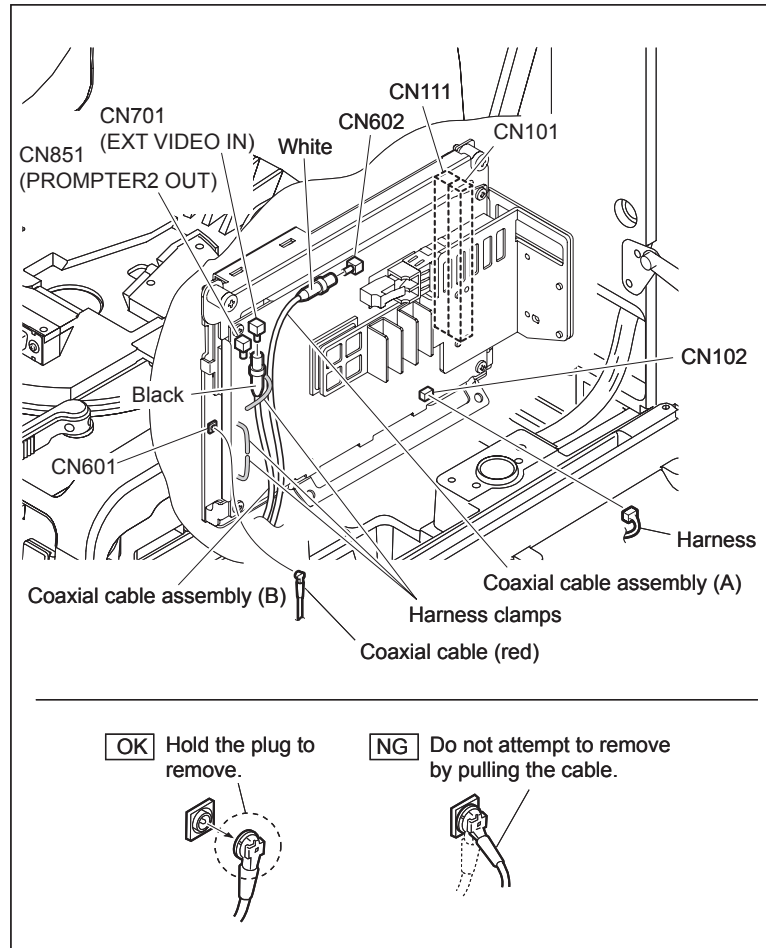
6. Disconnect the harness (2P) from the connector CN102 on the SDI-95 board.

7. Disconnect the coaxial cable from the connector CN601 on the DPR-265/265A board

Note

Be sure to hold the plug when disconnecting the coaxial cable. Do not pull the cable.

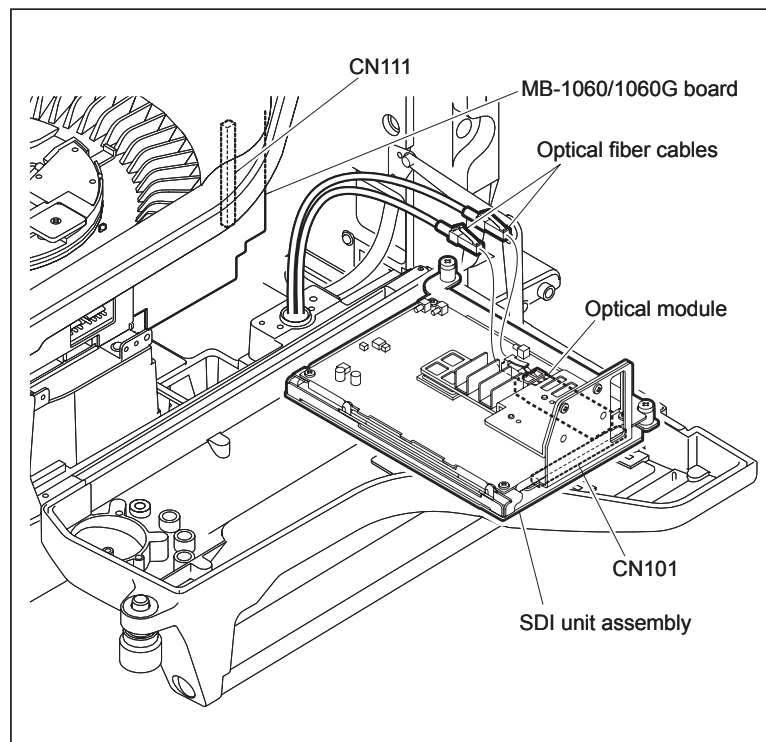
8. Release the cables from the three harness clamps.
9. Disconnect the coaxial cable assembly (A) from the connector CN602 on the SDI-95 board.
10. Disconnect the coaxial cable assembly (B) from the connector CN701 on the SDI-95 board.



11. Disconnect the connector CN101 on the DPR-265/265A board from the connector CN111 on the MB-1060/1060G board, and remove the SDI unit assembly from the unit.
12. Put the SDI unit assembly at the location shown in the figure, and disconnect the two optical fiber cables from the optical module on the SDI-95 board.

Notes

- If optical fiber cable is bent or pulled strongly, it may be disconnected. Handle optical fiber cables carefully.
- Do not touch the tip of the optical fiber cable. This may result in deterioration of signals.



13. Remove the two screws and remove the SDI heatsink.
14. Remove the heat transfer sheets (1).
Note
 The heat transfer sheets (1) will be reused. Be careful not to lose it.
15. Remove the four screws.
16. Disconnect the connector CN101 on the SDI-95 board from the connector CN201 on the DPR-265/265A board.

Installation

1. Connect the connector CN101 on a new SDI-95 board to the connector CN201 on the DPR-265/265A board.
2. Attach the heat transfer sheets (1) at the position shown in the figure with its darker-color side facing up.
3. Put the SDI heatsink on the heat transfer sheets and press the SDI heatsink to obtain effective heat transfer.

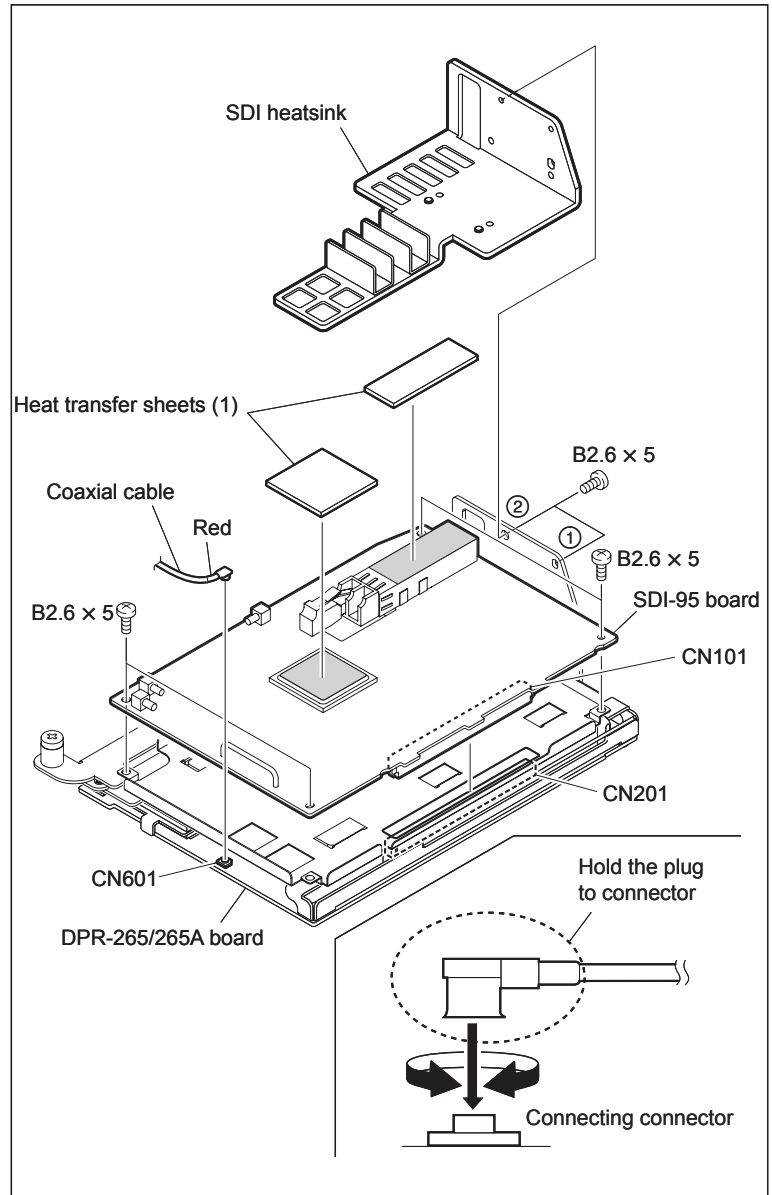
Note

The SDI heatsink shall be in contact with the heat transfer sheets.

4. Secure the SDI heatsink with two screws in the order as shown in the figure.
5. Connect the coaxial cable to the connector CN601 on the DPR-265/265A board.

Note

Hold the plug of the coaxial cable, and connect it perpendicularly to the connector. Push the plug into the connector while turning it clockwise and counterclockwise several times.

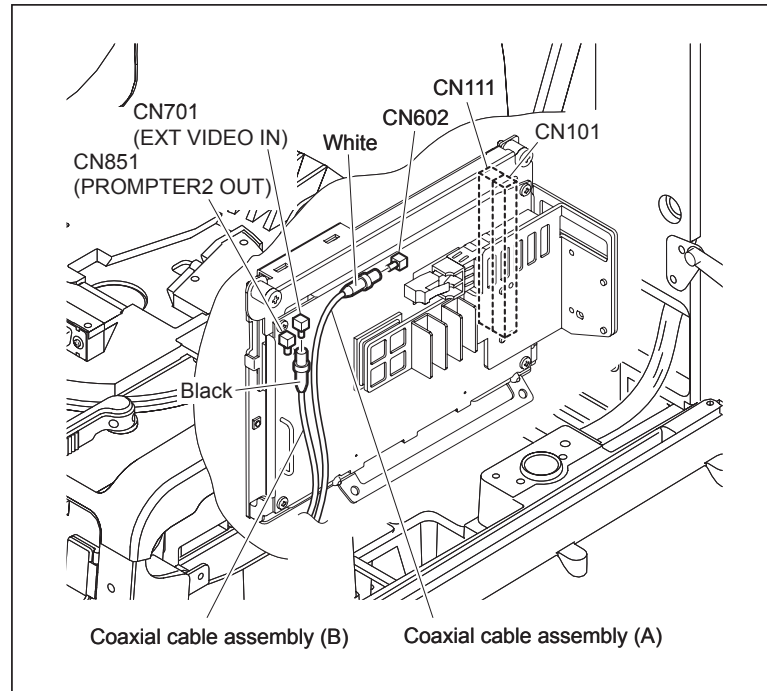


6. Insert the SDI unit assembly into the unit from the bottom, and connect the connector CN101 on the DPR-265/265A board to the connector CN111 on the MB-1060/1060G board.
7. Connect the coaxial cable assembly (B) to the connector CN701 on the SDI-95 board.

Note

To use this unit as PROMPTER2 output without inputting HD TRUNK or HD-SDI/VBS in standalone operation, connect the coaxial cable assembly (B) to the connector CN851 on the SDI-95 board.
(Refer to Section1-2-3.)

8. Connect the coaxial cable assembly (A) to the connector CN602 on the SDI-95 board.
9. Install the SDI unit assembly by reversing removal steps 3 to 5.

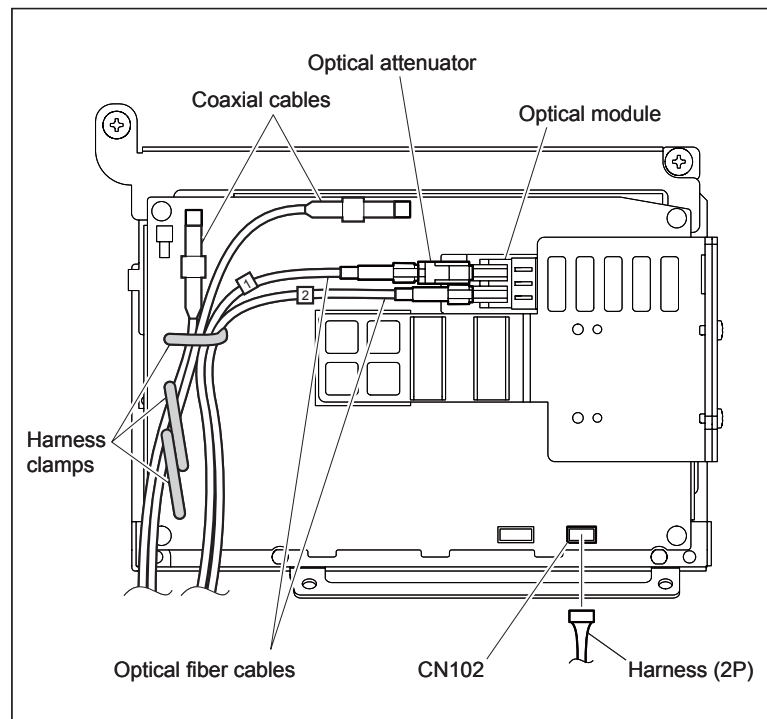


10. Connect the two optical fiber cables to the optical module on the SDI-95 board.

Note

Check cable numbers when connecting optical fiber cables, and insert the cable connector as far as it will go.

11. Connect the harness (2P) of the optical multi cable assembly to the connector CN102 on the SDI-95 board.
12. Arrange the optical fiber cables and the coaxial cables as shown in the figure and clamp them with the three harness clamps.
13. Install the fan and the fan bracket.
(Refer to “Installing the fan” in Section 1-2-1.)
14. Close the left side panel.



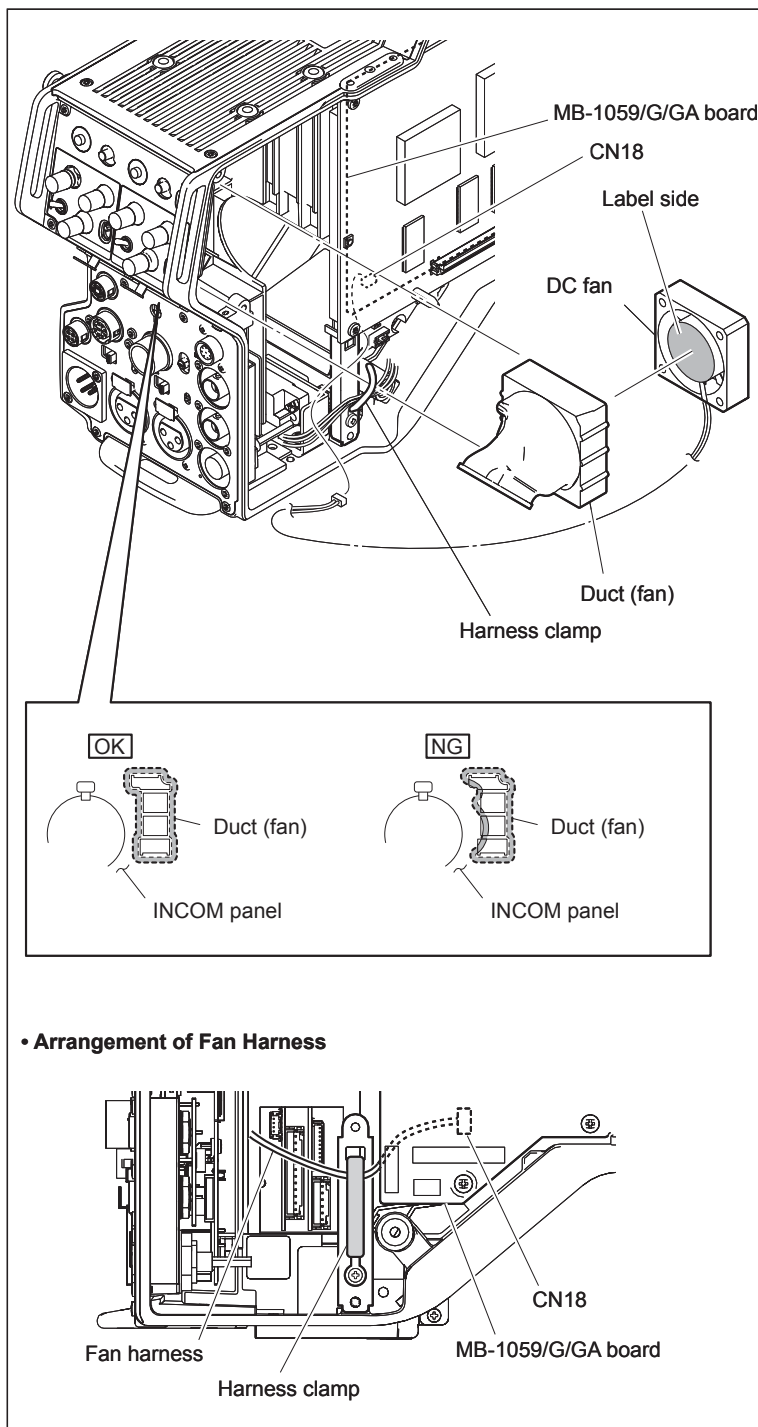
3-2. HKC-HB15

3-2-1. Replacing the Fan (HKC-HB15)

1. Open the inside panel and the outside panel.
(Refer to “Opening the side panels” in Section 1-2-2.)
2. Remove the POWER block assembly (A70).
(Refer to Section 3-2-3.)
3. Disconnect the fan harness from the connector CN18 on the MB-1059/G/GA board.
4. Remove the fan harness from the DPR rear bracket and remove the duct (fan).
5. Remove the DC fan from the duct (fan).
6. Install a new DC fan by reversing steps 3 to 5.

Notes

- Be careful of the orientation of the label side and the harness when installing the DC fan.
 - Install the duct (fan) properly to the IN-COM panel so as not to block the air vent.
 - Arrange the fan harness as shown in the figure.
7. Install the POWER block assembly (A70).
(Refer to Section 3-2-3.)
 8. Close the outside panel.
(Refer to “Closing the side panels” in Section 1-2-2.)

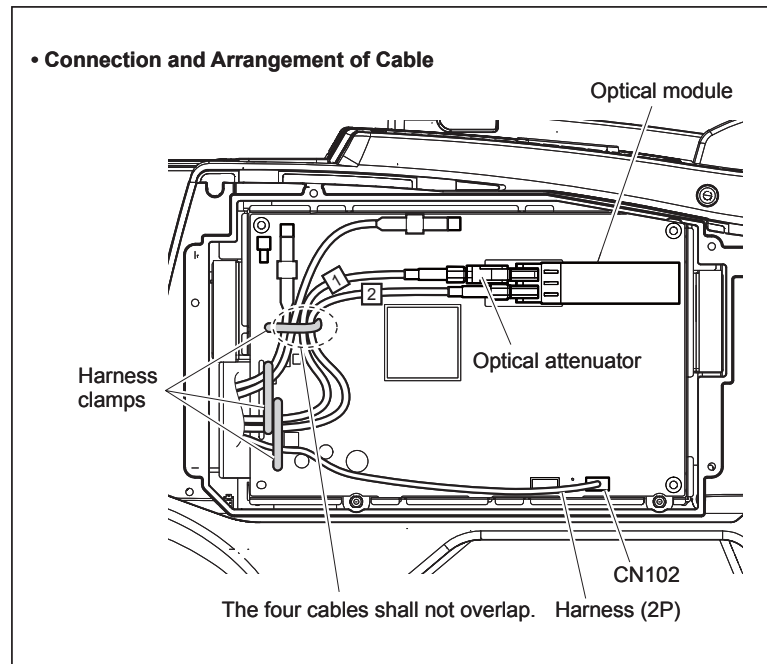


3-2-2. Replacing the Optical multi Cable Assembly (HKC-HB15)

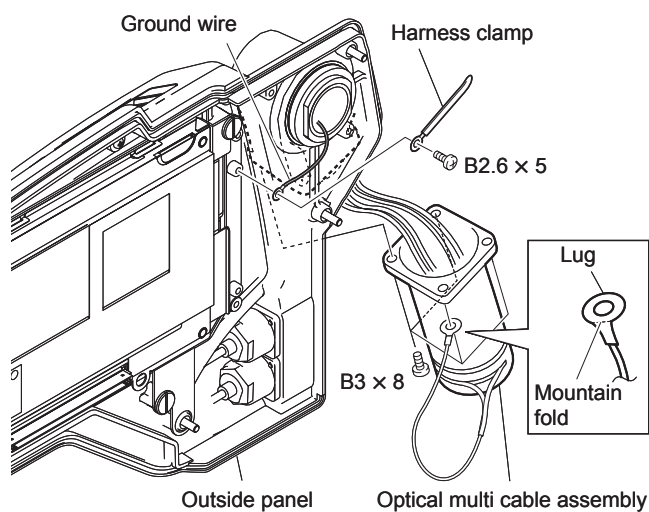
1. Open the outside panel.
(Refer to “Opening the side panels” in Section 1-2-2.)
2. Remove the outside pad sub assembly and the heatsink sub assembly.
(Refer to “Removing the optical multi cable assembly” in Section 1-2-2.)
3. Release the cables from the three harness clamps.
4. Disconnect the harness (2P) of the optical multi cable assembly from the connector CN102 on the SDI-95 board.
5. Disconnect the two optical fiber cables from the optical module on the SDI-95 board.

Note

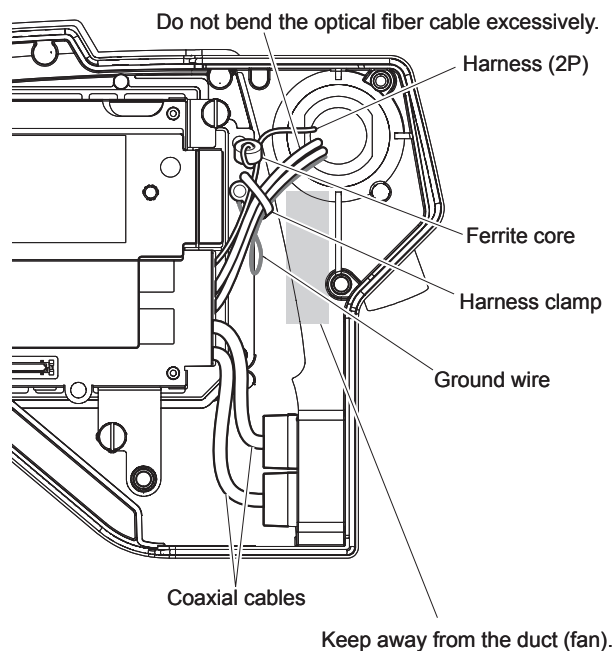
Check cable numbers when connecting optical fiber cables, and insert the cable connector as far as it will go.



6. Remove the screw and remove the harness clamp and the ground wire of the optical multi cable assembly.
7. Remove the four screws and pull out the optical multi cable assembly.
8. Pass a new optical multi cable assembly through the hole in the outside panel, and secure it with four screws.
9. Bend the lug of the optical multi cable assembly as shown in the figure.
10. Secure the ground wire of the optical multi cable assembly and the harness clamp with a screw.
11. Arrange the optical fiber cable, harness (2P), and the ground wire as shown in the figure, and clamp them with the harness clamp.
12. Install the outside pad sub assembly and the heatsink sub assembly.
(Refer to “Installing the optical multi cable assembly” in Section 1-2-2.)
13. Close the outside panel.
(Refer to “Closing the side panels” in Section 1-2-2.)



• Arrangement of Cable and Harness



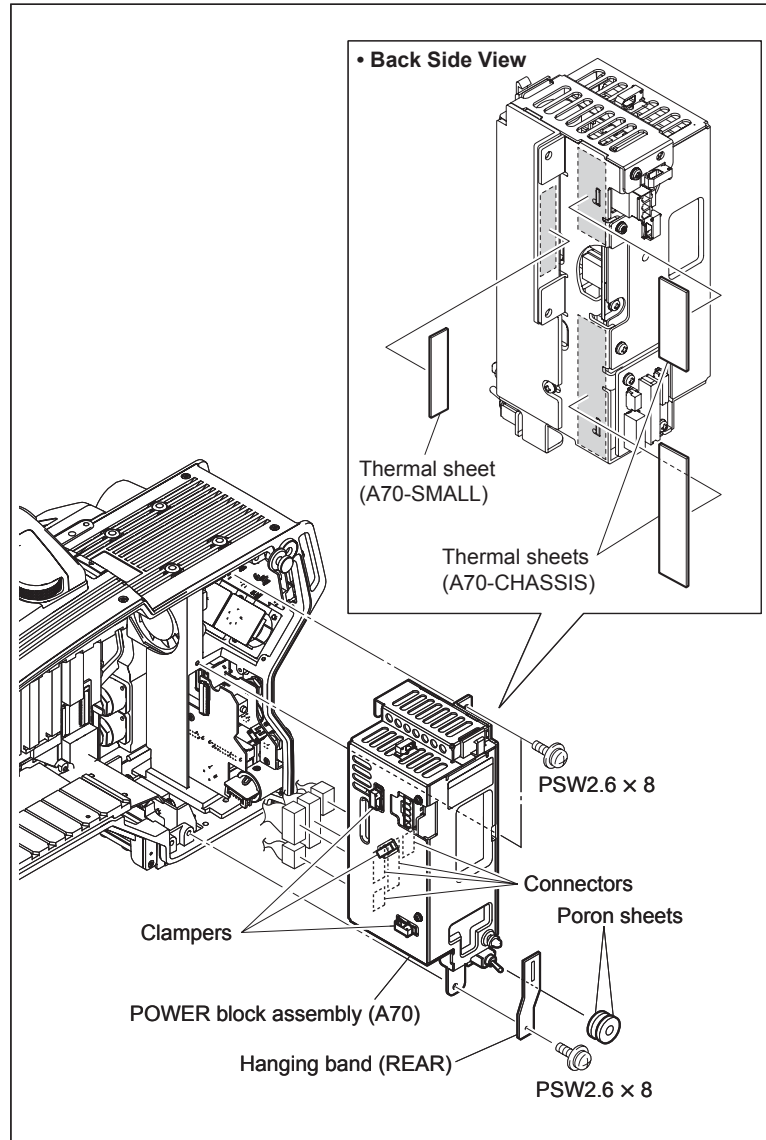
3-2-3. Replacing the Power Supply Assembly (HKC-HB15)

1. Open the inside panel and the outside panel.
(Refer to “Opening the side panels” in Section 1-2-2.)
2. Draw out the DC-DC converter unit along the board rail groove.
3. Release the three claspers and disconnect the harness from the connector (5P) on the POWER block assembly (A70).
4. Disconnect the harnesses from the four connectors on the POWER block assembly (A70).
5. Remove the three screws and remove the POWER block assembly (A70) and hanging band (REAR).
6. Remove the two Poron sheets from the POWER block assembly (A70).

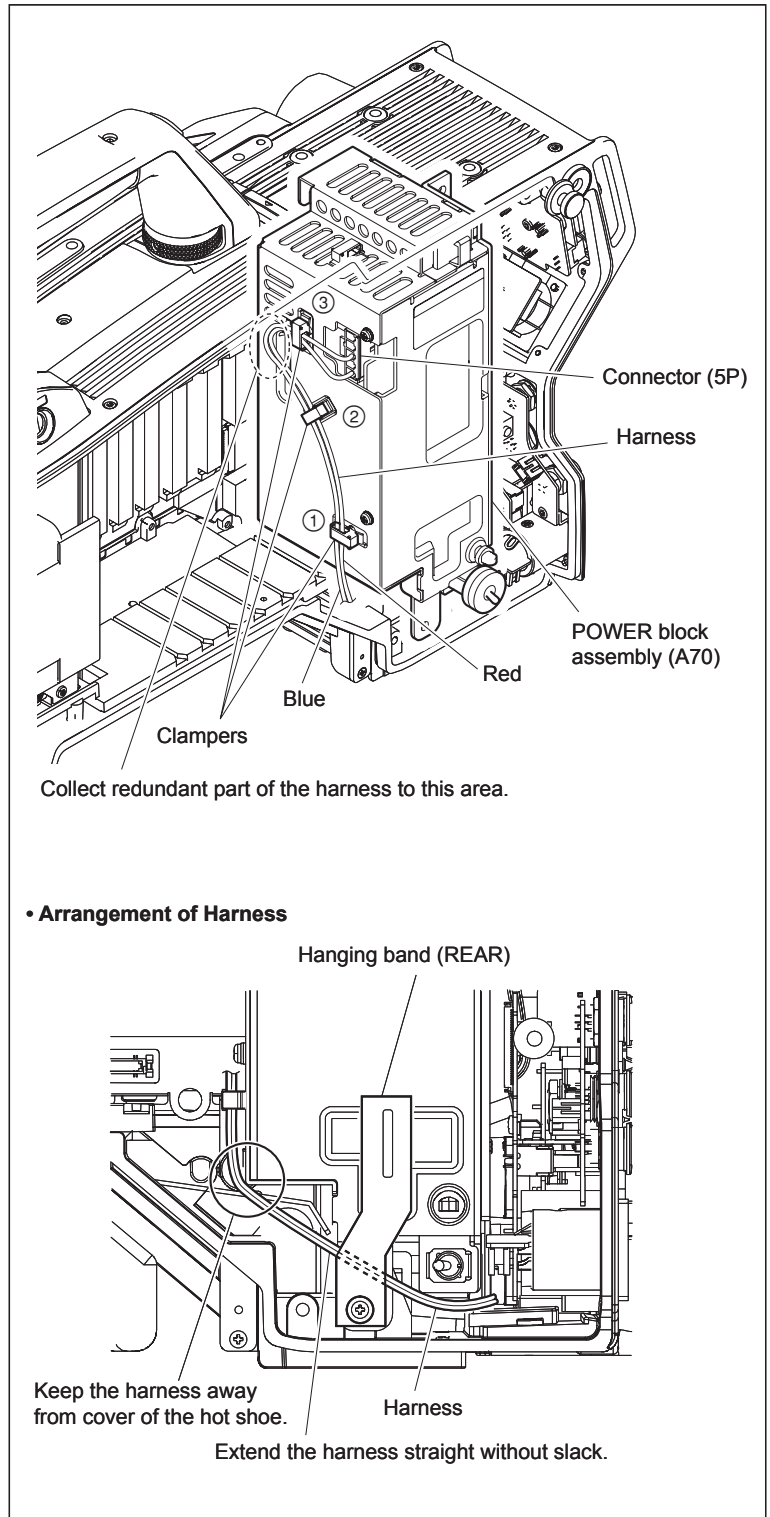
Note

The hanging band (REAR), and Poron sheets will be reused. Be careful not to lose them.

7. Attach the supplied thermal sheet (A70-SMALL) and the thermal sheet (A70-CHASSIS) to the locations of a new POWER block assembly (A70) shown in the figure.
8. Secure the POWER block assembly (A70) and the hanging band (REAR) with the three screws.
9. Attach the two Poron sheets to the POWER block assembly (A70).
10. Connect the harnesses to the four connectors on the POWER block assembly (A70).



11. Connect the harness to the connector (5P) on the POWER block assembly (A70).
12. Arrange the harnesses as shown in the figure and clamp them with the three clampers in the order shown in the figure.
13. Insert the DC-DC converter unit along the board rail groove.
14. Close the inside panel and the outside panel. (Refer to “Closing the side panels” in Section 1-2-2.)



3-2-4. Replacing the SDI-95 Board (HKC-HB15)

1. Open the outside panel.
(Refer to “Opening the side panels” in Section 1-2-2.)
2. Remove the outside pad sub assembly and the heatsink sub assembly.
(Refer to “Removing the optical multi cable assembly” in Section 1-2-2.)
3. Release the cables from the three harness clamps.
4. Disconnect the harness (2P) of the optical multi cable assembly from the connector CN102 on the SDI-95 board.
5. Disconnect the coaxial cable assembly (C) from the connector CN602 on the SDI-95 board.
6. Disconnect the coaxial cable assembly (D) from the connector CN701 on the SDI-95 board.

Note

To use this unit as PROMPTER2 output without inputting HD TRUNK or HD-SDI/VBS in standalone operation, connect the coaxial cable assembly (D) to the connector CN851 on the SDI-95 board.
(Refer to Section 1-2-3.)

7. Disconnect the two optical fiber cables from the optical module on the SDI-95 board.

Note

Check cable numbers when connecting optical fiber cables, and insert the cable connector as far as it will go.

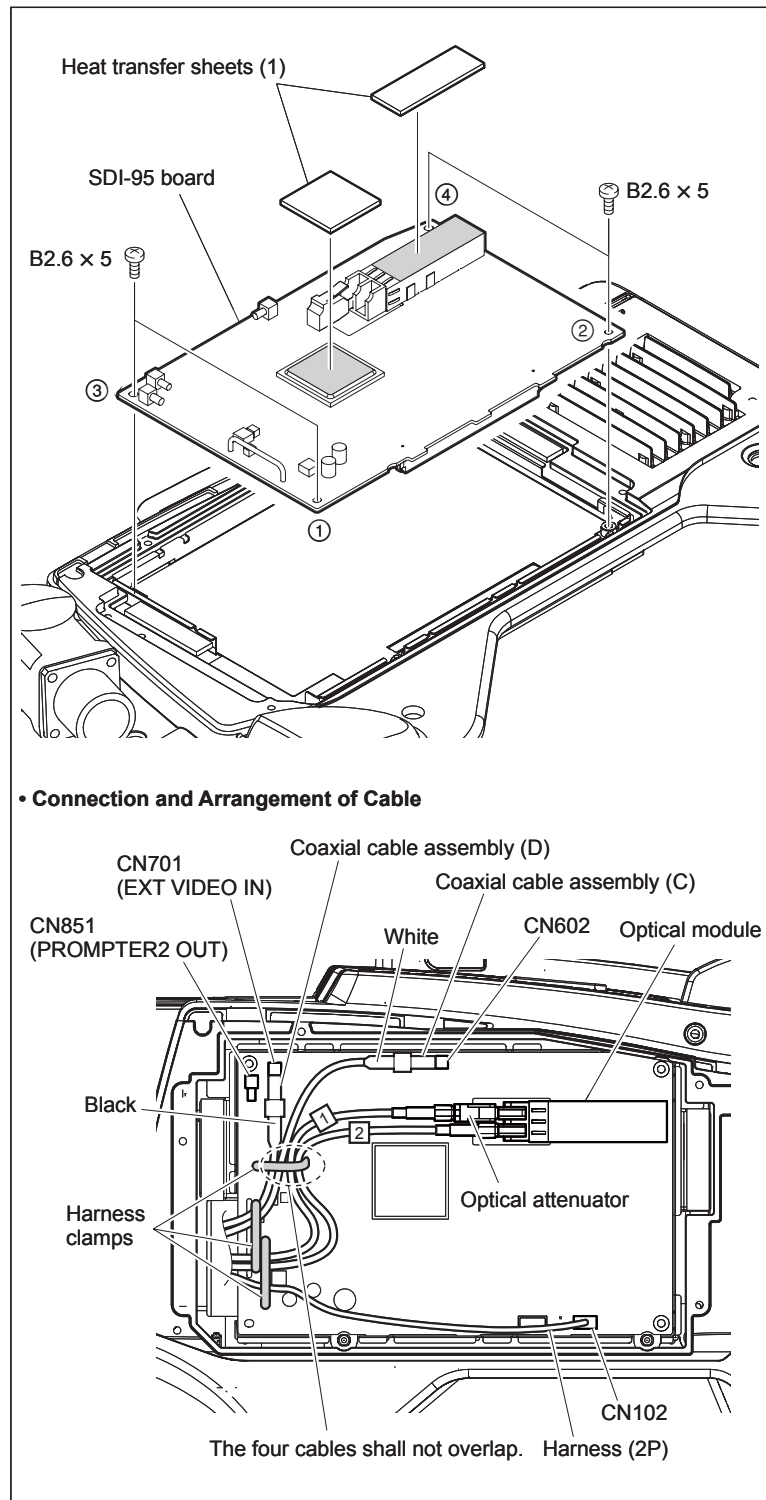
8. Remove the heat transfer sheets (1).

Note

The heat transfer sheets (1) will be reused. Be careful not to lose it.

9. Remove the four screws and remove the SDI-95 board.

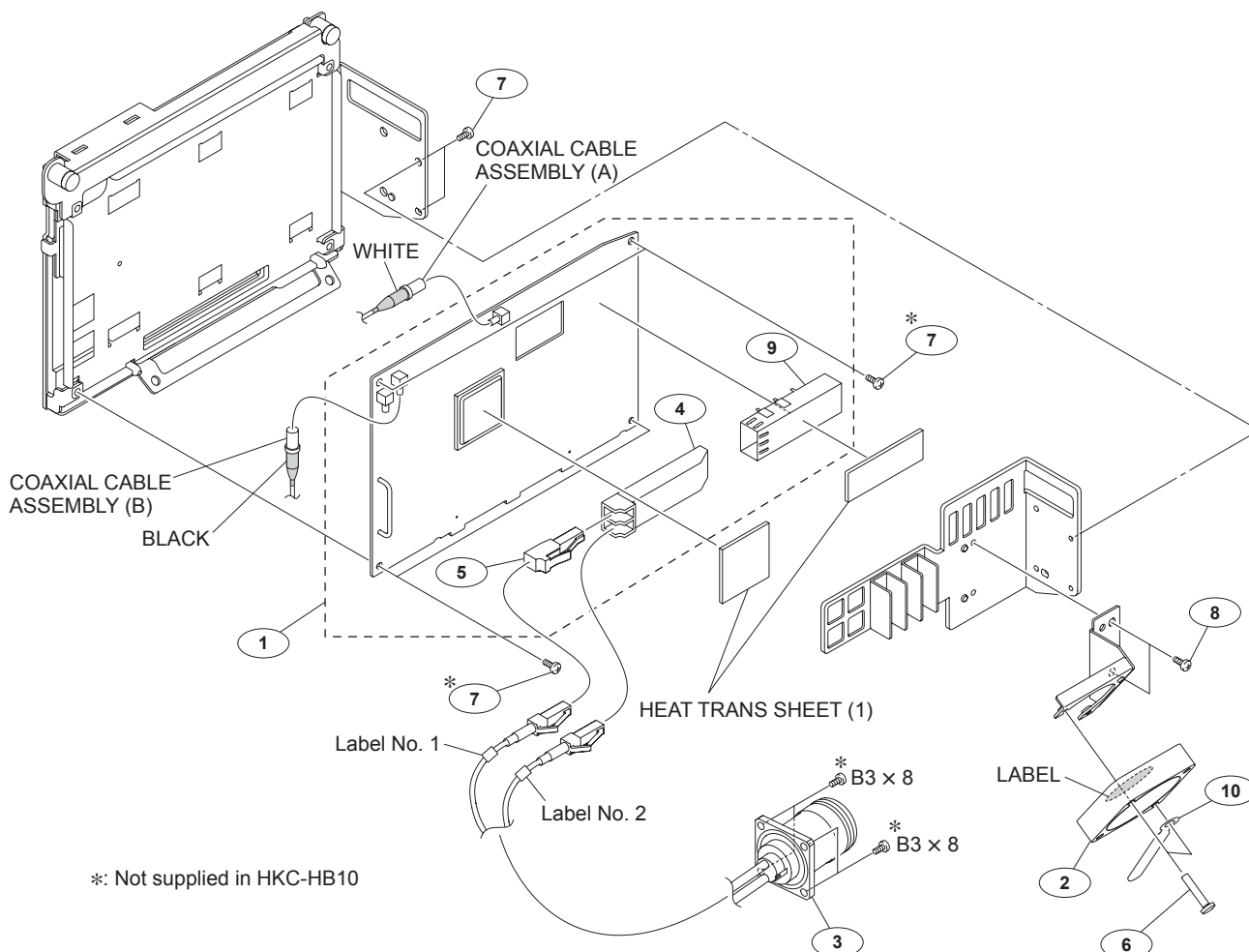
10. Install a new SDI-95 board by reversing the steps above.



Section 4

Spare Parts

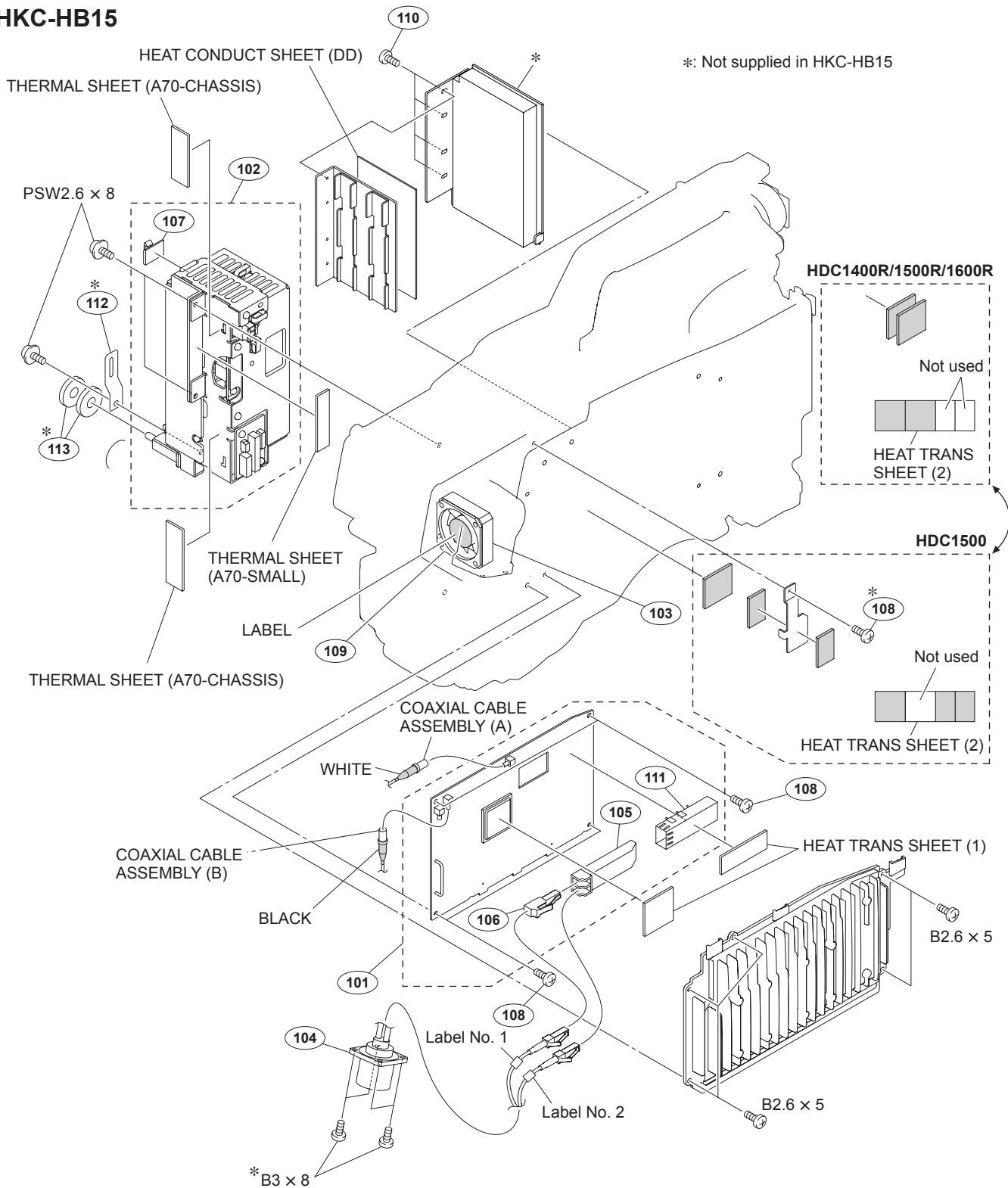
4-1. Exploded Views



No.	Part No.	SP Description
1	A-1764-667-A s	MOUNTED CIRCUIT BOARD, SDI-95
2	△ 1-787-903-11 s	FAN, DC (40 SQUARE)
3	△ 1-837-858-11 s	OPTICAL MULTI CABLE ASSEMBLY-M (Made by LEMO)
	△ 1-838-044-11 s	OPTICAL MULTI CABLE ASSEMBLY (Made by TAJIMI)
4	△ 1-840-495-11 s	MODULE, OPTICAL (SFP)
5	1-842-219-11 s	OPTICAL CONNECTOR (ATTENUATOR)
6	2-580-596-01 s	SCREW, +PSW M3X16
7	3-364-941-01 s	SCREW (+B) (2.6X5), NYLOK
8	3-725-295-21 s	SCREW, (+) (B3)
9	4-669-854-01 s	CAGE, TOP
10	3-701-822-01 s	HOLDER, WIRE

7-682-548-04 s SCREW +B 3X8

HKC-HB15



No.	Part No.	SP Description
101	A-1764-667-A s	MOUNTED CIRCUIT BOARD, SDI-95
102	△ A-1764-935-A s	POWER BLOCK ASSY (A70)
103	△ 1-787-611-11 s	FAN, DC (40 SQUARE)
104	△ 1-837-857-11 s	OPTICAL MULTI CABLE ASSEMBLY-M (Made by LEMO)
	△ 1-838-043-11 s	OPTICAL MULTI CABLE ASSEMBLY (Made by TAJIMI)
105	△ 1-840-495-11 s	MODULE, OPTICAL (SFP)

No.	Part No.	SP Description
106	1-842-219-11 s	OPTICAL CONNECTOR (ATTENUATOR)
107	3-257-200-01 s	CLAMP, CORD
108	3-364-941-01 s	SCREW (+B) (2.6X5), NYLOK
109	4-184-887-01 s	CUSHION, FAN
110	4-654-273-02 s	ACE (M2), LOCK
111	4-669-854-01 s	CAGE, TOP
112	3-986-535-03 s	BAND, HANGING (REAR)
113	3-872-590-01 s	PORONSHEET (POWER)

7-621-759-65 s +PSW, 2.6X8
 7-621-775-20 s SCREW +B 2.6X5
 7-682-548-04 s SCREW +B 3X8

4-2. Electrical Parts List

SDI-95 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1764-667-A	s MOUNTED CIRCUIT BOARD, SDI-95
1pc	Δ 1-840-495-11	s MODULE, OPTICAL (SFP)
1pc	1-842-219-11	s OPTICAL CONNECTOR (ATTENUATOR)
1pc	4-669-854-01	s CAGE, TOP
C1	1-119-923-81	s CAP, CERAMIC 0.047MF B 1005
C2	1-112-015-91	s CAP, CHIP CERAMIC 47MF B 3225
C3	1-112-015-91	s CAP, CHIP CERAMIC 47MF B 3225
C4	1-112-015-91	s CAP, CHIP CERAMIC 47MF B 3225
C6	1-112-015-91	s CAP, CHIP CERAMIC 47MF B 3225
C7	1-107-819-81	s CAP,CHIP CERAMIC 22000PF B1005
C8	1-164-936-81	s CAP, CHIP CERAMIC 680PF B 1005
C9	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C12	1-112-015-91	s CAP, CHIP CERAMIC 47MF B 3225
C15	1-112-015-91	s CAP, CHIP CERAMIC 47MF B 3225
C16	1-164-939-81	s CAP, CHIP CERAMIC 2200PF B 1005
C17	1-112-692-81	s CAP,CHIP CERAMIC1000PF CH 1005
C18	1-164-939-81	s CAP, CHIP CERAMIC 2200PF B 1005
C19	1-112-692-81	s CAP,CHIP CERAMIC1000PF CH 1005
C20	1-164-939-81	s CAP, CHIP CERAMIC 2200PF B 1005
C21	1-112-692-81	s CAP,CHIP CERAMIC1000PF CH 1005
C100	1-112-015-91	s CAP, CHIP CERAMIC 47MF B 3225
C104	1-112-717-91	s CAP, CERAMIC 1UF B (1005)
C107	1-116-346-11	s CAP, ELECT 47MF 105
C109	1-112-717-91	s CAP, CERAMIC 1UF B (1005)
C115	1-100-055-21	s CAP, CHIP CERAMIC 22MF B 3225
C116	1-100-055-21	s CAP, CHIP CERAMIC 22MF B 3225
C119	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C120	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C122	1-112-717-91	s CAP, CERAMIC 1UF B (1005)
C123	1-112-015-91	s CAP, CHIP CERAMIC 47MF B 3225
C124	1-112-015-91	s CAP, CHIP CERAMIC 47MF B 3225
C125	1-126-400-21	s CAP, CHIP ELECT 22MF(6.3X5.7)
C126	1-100-055-21	s CAP, CHIP CERAMIC 22MF B 3225
C127	1-100-055-21	s CAP, CHIP CERAMIC 22MF B 3225
C130	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C132	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C133	1-112-717-91	s CAP, CERAMIC 1UF B (1005)
C134	1-112-015-91	s CAP, CHIP CERAMIC 47MF B 3225
C135	1-112-015-91	s CAP, CHIP CERAMIC 47MF B 3225
C136	1-100-055-21	s CAP, CHIP CERAMIC 22MF B 3225
C137	1-100-055-21	s CAP, CHIP CERAMIC 22MF B 3225
C138	1-119-923-81	s CAP, CERAMIC 0.047MF B 1005
C139	1-112-015-91	s CAP, CHIP CERAMIC 47MF B 3225
C140	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C141	1-100-055-21	s CAP, CHIP CERAMIC 22MF B 3225
C143	1-112-015-91	s CAP, CHIP CERAMIC 47MF B 3225
C144	1-112-015-91	s CAP, CHIP CERAMIC 47MF B 3225
C145	1-112-015-91	s CAP, CHIP CERAMIC 47MF B 3225
C146	1-164-847-81	s CAP, CHIP CERAMIC 7PF CH 1005
C147	1-112-015-91	s CAP, CHIP CERAMIC 47MF B 3225
C148	1-164-847-81	s CAP, CHIP CERAMIC 7PF CH 1005
C149	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C150	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C151	1-100-055-21	s CAP, CHIP CERAMIC 22MF B 3225
C152	1-119-923-81	s CAP, CERAMIC 0.047MF B 1005
C153	1-100-055-21	s CAP, CHIP CERAMIC 22MF B 3225
C154	1-100-055-21	s CAP, CHIP CERAMIC 22MF B 3225
C155	1-112-015-91	s CAP, CHIP CERAMIC 47MF B 3225
C156	1-112-015-91	s CAP, CHIP CERAMIC 47MF B 3225

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Ref. No. or Q'ty	Part No.	SP Description
C157	1-112-015-91	s CAP, CHIP CERAMIC 47MF B 3225
C158	1-112-015-91	s CAP, CHIP CERAMIC 47MF B 3225
C159	1-112-015-91	s CAP, CHIP CERAMIC 47MF B 3225
C160	1-112-015-91	s CAP, CHIP CERAMIC 47MF B 3225
C161	1-112-015-91	s CAP, CHIP CERAMIC 47MF B 3225
C162	1-164-847-81	s CAP, CHIP CERAMIC 7PF CH 1005
C163	1-100-055-21	s CAP, CHIP CERAMIC 22MF B 3225
C164	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C165	1-112-015-91	s CAP, CHIP CERAMIC 47MF B 3225
C166	1-126-400-21	s CAP, CHIP ELECT 22MF(6.3X5.7)
C167	1-164-874-81	s CAP,CHIP CERAMIC 100PF CH 1005
C168	1-115-339-91	s CAP, CERAMIC 0.1MF B (2012)
C169	1-126-400-21	s CAP, CHIP ELECT 22MF(6.3X5.7)
C170	1-164-874-81	s CAP,CHIP CERAMIC 100PF CH 1005
C171	1-164-850-81	s CAP, CHIP CERAMIC 10PF CH 1005
C172	1-164-874-81	s CAP,CHIP CERAMIC 100PF CH 1005
C173	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C174	1-116-346-11	s CAP, ELECT 47MF 105
C175	1-112-746-91	s CAP, CERAMIC 4.7MF B (1608)
C176	1-100-055-21	s CAP, CHIP CERAMIC 22MF B 3225
C177	1-100-055-21	s CAP, CHIP CERAMIC 22MF B 3225
C178	1-100-055-21	s CAP, CHIP CERAMIC 22MF B 3225
C179	1-100-055-21	s CAP, CHIP CERAMIC 22MF B 3225
C180	1-100-055-21	s CAP, CHIP CERAMIC 22MF B 3225
C181	1-119-923-81	s CAP, CERAMIC 0.047MF B 1005
C182	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C183	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C184	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C185	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C186	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C187	1-112-717-91	s CAP, CERAMIC 1UF B (1005)
C188	1-112-717-91	s CAP, CERAMIC 1UF B (1005)
C201	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C204	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C208	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C212	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C213	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C214	1-107-819-81	s CAP,CHIP CERAMIC 22000PF B1005
C215	1-107-819-81	s CAP,CHIP CERAMIC 22000PF B1005
C216	1-164-939-81	s CAP, CHIP CERAMIC 2200PF B 1005
C401	1-112-717-91	s CAP, CERAMIC 1UF B (1005)
C402	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C403	1-112-717-91	s CAP, CERAMIC 1UF B (1005)
C404	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C405	1-112-717-91	s CAP, CERAMIC 1UF B (1005)
C406	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C407	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C408	1-112-717-91	s CAP, CERAMIC 1UF B (1005)
C409	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C410	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C438	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C439	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C441	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C466	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C467	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C468	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C469	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C470	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C471	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005

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Ref. No. or Q'ty	Part No.	SP	Description
C562	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C563	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C564	1-112-746-91	s	CAP, CERAMIC 4.7MF B (1608)
C565	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C566	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C567	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C568	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C569	1-112-746-91	s	CAP, CERAMIC 4.7MF B (1608)
C570	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C571	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C572	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C573	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C574	1-112-746-91	s	CAP, CERAMIC 4.7MF B (1608)
C575	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C576	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C577	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C578	1-112-746-91	s	CAP, CERAMIC 4.7MF B (1608)
C579	1-112-746-91	s	CAP, CERAMIC 4.7MF B (1608)
C580	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C581	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C582	1-112-746-91	s	CAP, CERAMIC 4.7MF B (1608)
C583	1-112-015-91	s	CAP, CHIP CERAMIC 47MF B 3225
C584	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C585	1-112-746-91	s	CAP, CERAMIC 4.7MF B (1608)
C586	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C587	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C588	1-112-746-91	s	CAP, CERAMIC 4.7MF B (1608)
C589	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C590	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C591	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C592	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C593	1-112-015-91	s	CAP, CHIP CERAMIC 47MF B 3225
C594	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C595	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C596	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C597	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C598	1-112-746-91	s	CAP, CERAMIC 4.7MF B (1608)
C599	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C601	1-112-746-91	s	CAP, CERAMIC 4.7MF B (1608)
C602	1-112-746-91	s	CAP, CERAMIC 4.7MF B (1608)
C603	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C604	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C605	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C606	1-112-746-91	s	CAP, CERAMIC 4.7MF B (1608)
C607	1-112-746-91	s	CAP, CERAMIC 4.7MF B (1608)
C608	1-165-989-91	s	CAP, CERAMIC 10MF (2012)
C609	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C610	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C611	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C612	1-112-324-91	s	CAP, CERAMIC 0.47MF C (1005)
C613	1-112-324-91	s	CAP, CERAMIC 0.47MF C (1005)
C614	1-112-746-91	s	CAP, CERAMIC 4.7MF B (1608)
C615	1-112-746-91	s	CAP, CERAMIC 4.7MF B (1608)
C616	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C617	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C618	1-165-989-91	s	CAP, CERAMIC 10MF (2012)
C619	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C620	1-112-746-91	s	CAP, CERAMIC 4.7MF B (1608)
C621	1-112-746-91	s	CAP, CERAMIC 4.7MF B (1608)

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Ref. No. or Q'ty	Part No.	SP	Description
C736	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C737	1-112-746-91	s	CAP, CERAMIC 4.7MF B (1608)
C738	1-112-746-91	s	CAP, CERAMIC 4.7MF B (1608)
C739	1-165-989-91	s	CAP, CERAMIC 10MF (2012)
C802	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C803	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C804	1-165-989-91	s	CAP, CERAMIC 10MF (2012)
C806	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C807	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C808	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C809	1-112-015-91	s	CAP, CHIP CERAMIC 47MF B 3225
C810	1-164-848-81	s	CAP, CHIP CERAMIC 8PF CH 1005
C812	1-164-866-81	s	CAP, CHIP CERAMIC 47PF CH 1005
C813	1-112-015-91	s	CAP, CHIP CERAMIC 47MF B 3225
C814	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C815	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C816	1-112-015-91	s	CAP, CHIP CERAMIC 47MF B 3225
C852	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C853	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C854	1-165-989-91	s	CAP, CERAMIC 10MF (2012)
C856	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C857	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C858	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C859	1-112-015-91	s	CAP, CHIP CERAMIC 47MF B 3225
C860	1-164-848-81	s	CAP, CHIP CERAMIC 8PF CH 1005
C862	1-164-866-81	s	CAP, CHIP CERAMIC 47PF CH 1005
C863	1-112-015-91	s	CAP, CHIP CERAMIC 47MF B 3225
C864	1-112-015-91	s	CAP, CHIP CERAMIC 47MF B 3225
C865	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C866	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C901	1-112-746-91	s	CAP, CERAMIC 4.7MF B (1608)
C902	1-112-746-91	s	CAP, CERAMIC 4.7MF B (1608)
C903	1-112-746-91	s	CAP, CERAMIC 4.7MF B (1608)
C904	1-112-746-91	s	CAP, CERAMIC 4.7MF B (1608)
C911	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C916	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C917	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C918	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C919	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C920	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C925	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C926	1-165-989-91	s	CAP, CERAMIC 10MF (2012)
C927	1-165-989-91	s	CAP, CERAMIC 10MF (2012)
C928	1-112-746-91	s	CAP, CERAMIC 4.7MF B (1608)
C930	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C932	1-112-746-91	s	CAP, CERAMIC 4.7MF B (1608)
C933	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C934	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C935	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C936	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C937	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C938	1-112-746-91	s	CAP, CERAMIC 4.7MF B (1608)
C939	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C940	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C941	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C942	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C943	1-165-989-91	s	CAP, CERAMIC 10MF (2012)
C944	1-165-989-91	s	CAP, CERAMIC 10MF (2012)
C945	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)

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C946	1-112-717-91 s	CAP, CERAMIC 1UF B (1005)
C947	1-112-717-91 s	CAP, CERAMIC 1UF B (1005)
C948	1-112-717-91 s	CAP, CERAMIC 1UF B (1005)
C949	1-165-989-91 s	CAP, CERAMIC 10MF (2012)
C950	1-165-989-91 s	CAP, CERAMIC 10MF (2012)
C951	1-112-717-91 s	CAP, CERAMIC 1UF B (1005)
C952	1-112-717-91 s	CAP, CERAMIC 1UF B (1005)
C953	1-112-717-91 s	CAP, CERAMIC 1UF B (1005)
C954	1-112-717-91 s	CAP, CERAMIC 1UF B (1005)
C955	1-112-717-91 s	CAP, CERAMIC 1UF B (1005)
C956	1-112-717-91 s	CAP, CERAMIC 1UF B (1005)
C957	1-112-717-91 s	CAP, CERAMIC 1UF B (1005)
C958	1-112-717-91 s	CAP, CERAMIC 1UF B (1005)
C959	1-112-717-91 s	CAP, CERAMIC 1UF B (1005)
C960	1-112-717-91 s	CAP, CERAMIC 1UF B (1005)
C961	1-112-717-91 s	CAP, CERAMIC 1UF B (1005)
C962	1-112-717-91 s	CAP, CERAMIC 1UF B (1005)
C963	1-112-717-91 s	CAP, CERAMIC 1UF B (1005)
C964	1-112-717-91 s	CAP, CERAMIC 1UF B (1005)
C965	1-112-717-91 s	CAP, CERAMIC 1UF B (1005)
C966	1-112-717-91 s	CAP, CERAMIC 1UF B (1005)
C972	1-112-717-91 s	CAP, CERAMIC 1UF B (1005)
C973	1-112-717-91 s	CAP, CERAMIC 1UF B (1005)
C974	1-112-717-91 s	CAP, CERAMIC 1UF B (1005)
C975	1-112-717-91 s	CAP, CERAMIC 1UF B (1005)
C976	1-112-717-91 s	CAP, CERAMIC 1UF B (1005)
C977	1-112-717-91 s	CAP, CERAMIC 1UF B (1005)
C978	1-112-717-91 s	CAP, CERAMIC 1UF B (1005)
CN102	1-695-480-21 o	PIN, CONNECTOR (PC BOARD) 2P
CN103	1-691-550-21 s	PIN, CONNECTOR (1.5MM) (SMD) 3P
CN202	1-764-080-21 o	PIN, CONNECTOR (PC BOARD) 8P
CN602	1-778-762-12 s	CONNECTOR, COAXIAL
CN603	1-817-176-11 s	CONNECTOR, SFP FIBER CHANNEL
CN701	1-778-762-12 s	CONNECTOR, COAXIAL
CN851	1-778-762-12 s	CONNECTOR, COAXIAL
D101	8-719-083-60 s	DI UDZSUSTE-174.7B
D102	8-719-083-60 s	DI UDZSUSTE-174.7B
D103	8-719-083-67 s	DI UDZSUSTE-1720B
D104	8-719-069-59 s	DI UDZSUSTE-178.2B
D105	8-719-989-77 s	DIODE SC802-04-TE12RA
D106	8-719-989-77 s	DIODE SC802-04-TE12RA
D107	8-719-989-77 s	DIODE SC802-04-TE12RA
D108	8-719-989-77 s	DIODE SC802-04-TE12RA
D109	8-719-083-60 s	DI UDZSUSTE-174.7B
D110	8-719-083-60 s	DI UDZSUSTE-174.7B
D111	8-719-820-42 s	DIODE 1SS302-TE85L
D112	8-719-036-91 s	DIODE RD5.1SB-T1
D113	8-719-036-91 s	DIODE RD5.1SB-T1
D114	8-719-820-42 s	DIODE 1SS302-TE85L
D115	8-719-069-56 s	DI UDZSUSTE-176.2B
D116	8-719-938-77 s	DIODE SB05-05C-TB-E
D501	8-719-077-09 s	DIODE CL-196HR-CD-T
D601	8-719-077-09 s	DIODE CL-196HR-CD-T
D602	8-719-077-09 s	DIODE CL-196HR-CD-T
D603	8-719-077-09 s	DIODE CL-196HR-CD-T
D604	8-719-077-09 s	DIODE CL-196HR-CD-T
D605	8-719-077-09 s	DIODE CL-196HR-CD-T
D606	8-719-077-09 s	DIODE CL-196HR-CD-T

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D607	8-719-077-09 s	DIODE CL-196HR-CD-T
D608	8-719-077-09 s	DIODE CL-196HR-CD-T
D609	8-719-074-31 s	DIODE CL-196YG-CD-T
D610	8-719-074-31 s	DIODE CL-196YG-CD-T
D611	8-719-074-31 s	DIODE CL-196YG-CD-T
D612	8-719-074-31 s	DIODE CL-196YG-CD-T
D613	8-719-074-31 s	DIODE CL-196YG-CD-T
D614	8-719-074-31 s	DIODE CL-196YG-CD-T
D615	8-719-074-31 s	DIODE CL-196YG-CD-T
D616	8-719-074-31 s	DIODE CL-196YG-CD-T
D617	8-719-077-09 s	DIODE CL-196HR-CD-T
D618	8-719-077-09 s	DIODE CL-196HR-CD-T
D701	8-719-821-08 s	DIODE 1SS271-TE85L
D702	8-719-820-42 s	DIODE 1SS302-TE85L
D901	8-719-077-09 s	DIODE CL-196HR-CD-T
D902	8-719-077-09 s	DIODE CL-196HR-CD-T
D903	8-719-077-09 s	DIODE CL-196HR-CD-T
D904	8-719-077-09 s	DIODE CL-196HR-CD-T
D905	8-719-077-09 s	DIODE CL-196HR-CD-T
D906	8-719-077-09 s	DIODE CL-196HR-CD-T
E1	1-535-877-22 s	CHIP, CHECKER
E2	1-535-877-22 s	CHIP, CHECKER
FB101	1-469-094-21 s	FERRITE, EMI (SMD) (1608)
FB102	1-469-094-21 s	FERRITE, EMI (SMD) (1608)
FB103	1-469-094-21 s	FERRITE, EMI (SMD) (1608)
FB104	1-469-094-21 s	FERRITE, EMI (SMD) (1608)
FB105	1-469-094-21 s	FERRITE, EMI (SMD) (1608)
FB106	1-469-094-21 s	FERRITE, EMI (SMD) (1608)
FB107	1-469-094-21 s	FERRITE, EMI (SMD) (1608)
FB108	1-469-094-21 s	FERRITE, EMI (SMD) (1608)
FB109	1-469-094-21 s	FERRITE, EMI (SMD) (1608)
FB110	1-469-094-21 s	FERRITE, EMI (SMD) (1608)
FB111	1-469-094-21 s	FERRITE, EMI (SMD) (1608)
FB112	1-469-094-21 s	FERRITE, EMI (SMD) (1608)
FB113	1-469-094-21 s	FERRITE, EMI (SMD) (1608)
FB401	1-414-554-21 s	FERRITE, EMI (SMD) (1608)
FB402	1-414-554-21 s	FERRITE, EMI (SMD) (1608)
FB501	1-469-094-21 s	FERRITE, EMI (SMD) (1608)
FB502	1-469-094-21 s	FERRITE, EMI (SMD) (1608)
FB503	1-469-094-21 s	FERRITE, EMI (SMD) (1608)
FB504	1-469-094-21 s	FERRITE, EMI (SMD) (1608)
FB505	1-469-094-21 s	FERRITE, EMI (SMD) (1608)
FB506	1-469-094-21 s	FERRITE, EMI (SMD) (1608)
FB601	1-469-094-21 s	FERRITE, EMI (SMD) (1608)
FB602	1-469-094-21 s	FERRITE, EMI (SMD) (1608)
FB603	1-469-094-21 s	FERRITE, EMI (SMD) (1608)
FB604	1-400-382-21 s	EMI FERRITE (SMD) (1608)
FB605	1-400-382-21 s	EMI FERRITE (SMD) (1608)
FB606	1-400-382-21 s	EMI FERRITE (SMD) (1608)
FB607	1-400-382-21 s	EMI FERRITE (SMD) (1608)
FB608	1-400-382-21 s	EMI FERRITE (SMD) (1608)
FB609	1-400-382-21 s	EMI FERRITE (SMD) (1608)
FB610	1-400-382-21 s	EMI FERRITE (SMD) (1608)
FB611	1-400-382-21 s	EMI FERRITE (SMD) (1608)
FB612	1-400-382-21 s	EMI FERRITE (SMD) (1608)
FB613	1-400-382-21 s	EMI FERRITE (SMD) (1608)
FB614	1-400-382-21 s	EMI FERRITE (SMD) (1608)
FB615	1-400-382-21 s	EMI FERRITE (SMD) (1608)

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Ref. No. or Q'ty	Part No.	SP	Description
FB616	1-400-382-21	s	EMI FERRITE (SMD) (1608)
FB701	1-469-094-21	s	FERRITE, EMI (SMD) (1608)
FB901	1-469-094-21	s	FERRITE, EMI (SMD) (1608)
FB903	1-469-094-21	s	FERRITE, EMI (SMD) (1608)
FB904	1-469-094-21	s	FERRITE, EMI (SMD) (1608)
FB905	1-469-094-21	s	FERRITE, EMI (SMD) (1608)
FB906	1-469-094-21	s	FERRITE, EMI (SMD) (1608)
FB907	1-469-094-21	s	FERRITE, EMI (SMD) (1608)
FB908	1-469-094-21	s	FERRITE, EMI (SMD) (1608)
FB909	1-469-094-21	s	FERRITE, EMI (SMD) (1608)
FB910	1-469-094-21	s	FERRITE, EMI (SMD) (1608)
FB911	1-469-094-21	s	FERRITE, EMI (SMD) (1608)
FB912	1-469-094-21	s	FERRITE, EMI (SMD) (1608)
FL801	1-233-345-21	s	FILTER, LOW PASS (5.5MHZ)
FL851	1-233-345-21	s	FILTER, LOW PASS (5.5MHZ)
IC101	8-759-327-01	s	IC NJM062V (TE2)
IC102	8-759-327-01	s	IC NJM062V (TE2)
IC103	8-759-327-01	s	IC NJM062V (TE2)
IC104	6-704-976-01	s	IC ADR381ARTZ-REEL7
IC105	6-706-482-01	s	IC TC7SH00FU (T5RSOYJF)
IC106	6-704-512-01	s	IC TPS62050DGSR
IC107	6-704-512-01	s	IC TPS62050DGSR
IC108	6-708-346-01	s	IC DAC7512N
IC109	8-759-359-49	s	IC NJM3414AV (TE2)
IC110	6-706-482-01	s	IC TC7SH00FU (T5RSOYJF)
IC111	8-759-327-01	s	IC NJM062V (TE2)
IC112	8-759-338-95	s	IC NJM2903V (TE2)
IC113	6-706-487-01	s	IC TC7SH08FU (T5RSOYJF)
IC114	8-759-346-27	s	IC LM45BIM3X
IC115	6-712-135-01	o	IC R1173H001D-T1-F
IC116	8-759-327-01	s	IC NJM062V (TE2)
IC117	6-712-135-01	o	IC R1173H001D-T1-F
IC118	6-701-572-01	s	IC TPS54610PWR
IC119	6-706-489-01	s	IC TC7SH32FU (T5RSOYJF)
IC120	6-706-487-01	s	IC TC7SH08FU (T5RSOYJF)
IC121	6-704-512-01	s	IC TPS62050DGSR
IC201	6-703-875-01	s	IC CDCVF2505PWR
IC202	6-707-875-01	s	IC TC74VHC245FT (EKJ)
IC203	6-706-487-01	s	IC TC7SH08FU (T5RSOYJF)
IC204	6-702-879-01	s	IC R3112N281A-TR-FA
IC205	6-706-487-01	s	IC TC7SH08FU (T5RSOYJF)
IC206	6-706-487-01	s	IC TC7SH08FU (T5RSOYJF)
IC211	6-706-487-01	s	IC TC7SH08FU (T5RSOYJF)
IC401	6-706-487-01	s	IC TC7SH08FU (T5RSOYJF)
IC407	6-707-875-01	s	IC TC74VHC245FT (EKJ)
IC408	6-703-791-01	s	IC MSM56V16160F-8T3FM1
IC409	8-759-592-42	s	IC TC7SZ00FU (TE85R)
IC410	6-700-804-01	s	IC SN74LVC574APWR
IC411	6-700-804-01	s	IC SN74LVC574APWR
IC412	6-700-804-01	s	IC SN74LVC574APWR
IC413	6-700-804-01	s	IC SN74LVC574APWR
IC414	6-700-804-01	s	IC SN74LVC574APWR
IC415	6-700-804-01	s	IC SN74LVC574APWR
IC416	8-759-592-42	s	IC TC7SZ00FU (TE85R)
IC417	8-759-592-42	s	IC TC7SZ00FU (TE85R)
IC418	8-759-592-42	s	IC TC7SZ00FU (TE85R)
IC504	6-706-487-01	s	IC TC7SH08FU (T5RSOYJF)
IC505	8-759-592-50	s	IC TC7SZ126FU (TE85R)

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Ref. No. or Q'ty	Part No.	SP	Description
IC601	6-713-192-01	s	IC GS2978-CNE3
IC602	8-759-592-44	s	IC TC7SZ04FU (TE85R)
IC603	8-759-592-44	s	IC TC7SZ04FU (TE85R)
IC604	8-759-592-44	s	IC TC7SZ04FU (TE85R)
IC605	8-759-592-44	s	IC TC7SZ04FU (TE85R)
IC606	6-706-482-01	s	IC TC7SH00FU (T5RSOYJF)
IC609	6-706-484-01	s	IC TC7SH04FU (T5RSOYJF)
IC610	6-706-482-01	s	IC TC7SH00FU (T5RSOYJF)
IC701	6-706-482-01	s	IC TC7SH00FU (T5RSOYJF)
IC702	8-759-327-01	s	IC NJM062V (TE2)
IC703	6-706-482-01	s	IC TC7SH00FU (T5RSOYJF)
IC704	6-708-506-01	s	IC ML86V7666TBZ03A
IC705	6-709-612-01	s	IC GS1574ACNE3
IC801	6-706-471-01	s	IC THS5661AIPWR
IC802	8-759-561-46	s	IC AD8014ARTZ-REEL7
IC851	6-706-471-01	s	IC THS5661AIPWR
IC852	8-759-561-46	s	IC AD8014ARTZ-REEL7
IC901	8-759-592-43	s	IC TC7SZ02FU (TE85R)
IC902	8-759-669-66	s	IC TLC272CPWR-12
IC903	6-702-535-01	s	IC MC100LV11DTR2
IC904	6-710-109-01	s	IC NB100LVEP56MNR2G
IC905	6-715-439-01	s	IC CDCM7005ZVAT
IC906	6-715-439-01	s	IC CDCM7005ZVAT
IC909	8-759-592-49	s	IC TC7SZ125FU (TE85R)
IC910	8-759-592-49	s	IC TC7SZ125FU (TE85R)
IC911	8-759-592-44	s	IC TC7SZ04FU (TE85R)
JC104	1-216-864-91	s	CONDUCTOR, CHIP (1608)
JC105	1-216-864-91	s	CONDUCTOR, CHIP (1608)
JC106	1-216-864-91	s	CONDUCTOR, CHIP (1608)
JC107	1-216-864-91	s	CONDUCTOR, CHIP (1608)
L101	1-457-205-21	s	COIL, CHOKE (SMD) 3.3UH
L102	1-414-398-41	s	INDUCTOR (SMD) 10.0UH
L103	1-414-398-41	s	INDUCTOR (SMD) 10.0UH
L104	1-414-398-41	s	INDUCTOR (SMD) 10.0UH
L105	1-414-398-41	s	INDUCTOR (SMD) 10.0UH
L106	1-416-344-21	s	COIL, CHOKE 10UH
L107	1-416-344-21	s	COIL, CHOKE 10UH
L108	1-416-344-21	s	COIL, CHOKE 10UH
L109	1-414-392-41	s	INDUCTOR (SMD) 1.0UH
L110	1-416-948-21	s	COIL, CHOKE (SMD) 10UH
L111	1-414-398-41	s	INDUCTOR (SMD) 10.0UH
L112	1-414-398-41	s	INDUCTOR (SMD) 10.0UH
L113	1-414-392-41	s	INDUCTOR (SMD) 1.0UH
L114	1-414-398-41	s	INDUCTOR (SMD) 10.0UH
L115	1-416-344-21	s	COIL, CHOKE 10UH
L116	1-414-400-41	s	INDUCTOR (SMD) 22.0UH
L117	1-414-400-41	s	INDUCTOR (SMD) 22.0UH
L404	1-414-392-41	s	INDUCTOR (SMD) 1.0UH
L601	1-414-392-41	s	INDUCTOR (SMD) 1.0UH
L602	1-414-392-41	s	INDUCTOR (SMD) 1.0UH
L604	1-414-457-21	s	INDUCTOR, CHIP (S) 3.3NH
L605	1-414-457-21	s	INDUCTOR, CHIP (S) 3.3NH
L606	1-414-459-21	s	INDUCTOR, CHIP (S) 4.7NH
L703	1-414-398-41	s	INDUCTOR (SMD) 10.0UH
L704	1-414-398-41	s	INDUCTOR (SMD) 10.0UH
L706	1-414-398-41	s	INDUCTOR (SMD) 10.0UH
L707	1-414-398-41	s	INDUCTOR (SMD) 10.0UH
L708	1-414-461-41	s	INDUCTOR, CHIP (K) 6.8NH

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Ref. No. or Q'ty	Part No.	SP Description
L709	1-414-461-41 s	INDUCTOR, CHIP (K) 6.8NH
L711	1-414-398-41 s	INDUCTOR (SMD) 10.0UH
L712	1-414-398-41 s	INDUCTOR (SMD) 10.0UH
L801	1-414-398-41 s	INDUCTOR (SMD) 10.0UH
L802	1-414-398-41 s	INDUCTOR (SMD) 10.0UH
L803	1-414-398-41 s	INDUCTOR (SMD) 10.0UH
L804	1-414-398-41 s	INDUCTOR (SMD) 10.0UH
L851	1-414-398-41 s	INDUCTOR (SMD) 10.0UH
L852	1-414-398-41 s	INDUCTOR (SMD) 10.0UH
L853	1-414-398-41 s	INDUCTOR (SMD) 10.0UH
L854	1-414-398-41 s	INDUCTOR (SMD) 10.0UH
L901	1-414-392-41 s	INDUCTOR (SMD) 1.0UH
L902	1-414-392-41 s	INDUCTOR (SMD) 1.0UH
Q101	8-729-209-73 s	TRANSISTOR 2SA1213Y-TE12L
Q102	8-729-928-05 s	TRANSISTOR 2SC4617TL-QR
Q103	8-729-035-99 s	TRANSISTOR 2SA1615-Z-E2
Q104	8-729-928-05 s	TRANSISTOR 2SC4617TL-QR
Q105	8-729-102-84 s	TRANSISTOR 2SB624-T1BV5
Q106	8-729-928-05 s	TRANSISTOR 2SC4617TL-QR
Q107	8-729-928-05 s	TRANSISTOR 2SC4617TL-QR
Q108	8-729-209-77 s	TRANSISTOR 2SC2873Y-TE12L
Q109	8-729-928-82 s	TRANSISTOR DTC144EE-TL
Q110	6-552-494-01 s	TR SI2307CDS-T1-GE3
Q111	8-729-928-25 s	TRANSISTOR 2SA1774TL-QR
Q112	8-729-928-05 s	TRANSISTOR 2SC4617TL-QR
Q113	8-729-928-37 s	TRANSISTOR DTA114EE-TL
Q114	8-729-928-37 s	TRANSISTOR DTA114EE-TL
Q115	8-729-928-82 s	TRANSISTOR DTC144EE-TL
Q116	8-729-928-25 s	TRANSISTOR 2SA1774TL-QR
Q117	8-729-928-05 s	TRANSISTOR 2SC4617TL-QR
Q118	8-729-928-82 s	TRANSISTOR DTC144EE-TL
Q119	8-729-928-82 s	TRANSISTOR DTC144EE-TL
Q120	8-729-928-05 s	TRANSISTOR 2SC4617TL-QR
Q121	8-729-928-82 s	TRANSISTOR DTC144EE-TL
Q122	8-729-928-82 s	TRANSISTOR DTC144EE-TL
Q123	8-729-928-28 s	TRANSISTOR DTA144EE-TL
Q501	8-729-928-25 s	TRANSISTOR 2SA1774TL-QR
Q602	8-729-928-28 s	TRANSISTOR DTA144EE-TL
Q603	8-729-928-82 s	TRANSISTOR DTC144EE-TL
Q604	6-552-494-01 s	TR SI2307CDS-T1-GE3
Q605	8-729-928-28 s	TRANSISTOR DTA144EE-TL
Q606	8-729-928-82 s	TRANSISTOR DTC144EE-TL
Q607	6-552-494-01 s	TR SI2307CDS-T1-GE3
Q608	8-729-928-82 s	TRANSISTOR DTC144EE-TL
Q609	8-729-928-82 s	TRANSISTOR DTC144EE-TL
Q610	8-729-928-82 s	TRANSISTOR DTC144EE-TL
Q611	8-729-928-82 s	TRANSISTOR DTC144EE-TL
Q612	8-729-928-82 s	TRANSISTOR DTC144EE-TL
Q613	8-729-928-82 s	TRANSISTOR DTC144EE-TL
Q614	8-729-928-82 s	TRANSISTOR DTC144EE-TL
Q615	8-729-928-82 s	TRANSISTOR DTC144EE-TL
Q616	8-729-928-82 s	TRANSISTOR DTC144EE-TL
Q617	8-729-928-82 s	TRANSISTOR DTC144EE-TL
Q618	8-729-928-82 s	TRANSISTOR DTC144EE-TL
Q619	8-729-928-82 s	TRANSISTOR DTC144EE-TL
Q620	8-729-928-82 s	TRANSISTOR DTC144EE-TL
Q621	8-729-928-82 s	TRANSISTOR DTC144EE-TL
Q701	6-551-720-01 s	TRANSISTOR 2SC5095-O(T5LSONYF

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Ref. No. or Q'ty	Part No.	SP Description
Q705	8-729-928-28 s	TRANSISTOR DTA144EE-TL
Q706	8-729-928-82 s	TRANSISTOR DTC144EE-TL
Q707	6-552-494-01 s	TR SI2307CDS-T1-GE3
Q901	8-729-928-82 s	TRANSISTOR DTC144EE-TL
Q902	8-729-928-82 s	TRANSISTOR DTC144EE-TL
Q903	8-729-928-25 s	TRANSISTOR 2SA1774TL-QR
Q904	8-729-102-84 s	TRANSISTOR 2SB624-T1BV5
Q905	8-729-928-82 s	TRANSISTOR DTC144EE-TL
Q906	8-729-928-82 s	TRANSISTOR DTC144EE-TL
Q907	8-729-928-25 s	TRANSISTOR 2SA1774TL-QR
Q908	8-729-102-84 s	TRANSISTOR 2SB624-T1BV5
Q909	8-729-928-25 s	TRANSISTOR 2SA1774TL-QR
Q910	8-729-928-25 s	TRANSISTOR 2SA1774TL-QR
Q911	8-729-928-25 s	TRANSISTOR 2SA1774TL-QR
Q912	8-729-928-25 s	TRANSISTOR 2SA1774TL-QR
Q913	8-729-928-25 s	TRANSISTOR 2SA1774TL-QR
Q914	8-729-928-25 s	TRANSISTOR 2SA1774TL-QR
R1	1-208-863-81 s	RES, CHIP 100 (1005)
R2	1-208-863-81 s	RES, CHIP 100 (1005)
R3	1-208-863-81 s	RES, CHIP 100 (1005)
R4	1-208-863-81 s	RES, CHIP 100 (1005)
R5	1-208-863-81 s	RES, CHIP 100 (1005)
R6	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R7	1-208-931-81 s	RES, CHIP 68K (1005)
R8	1-208-891-81 s	RES, CHIP 1.5K (1005)
R9	1-208-863-81 s	RES, CHIP 100 (1005)
R10	1-220-882-81 s	RES, CHIP 33 (1005)
R11	1-208-895-81 s	RES, CHIP 2.2K (1005)
R12	1-208-915-81 s	RES, CHIP 15K (1005)
R13	1-208-891-81 s	RES, CHIP 1.5K (1005)
R14	1-208-911-81 s	RES, CHIP 10K (1005)
R15	1-208-887-81 s	RES, CHIP 1.0K (1005)
R16	1-208-891-81 s	RES, CHIP 1.5K (1005)
R27	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R28	1-208-871-81 s	RES, CHIP 220 (1005)
R29	1-208-887-81 s	RES, CHIP 1.0K (1005)
R30	1-208-871-81 s	RES, CHIP 220 (1005)
R31	1-216-789-91 s	RES, CHIP 2.2 (1608)
R32	1-216-789-91 s	RES, CHIP 2.2 (1608)
R33	1-216-789-91 s	RES, CHIP 2.2 (1608)
R34	1-208-943-81 s	RES, CHIP 220K (1005)
R35	1-208-943-81 s	RES, CHIP 220K (1005)
R36	1-208-915-81 s	RES, CHIP 15K (1005)
R37	1-208-943-81 s	RES, CHIP 220K (1005)
R38	1-208-943-81 s	RES, CHIP 220K (1005)
R39	1-208-915-81 s	RES, CHIP 15K (1005)
R40	1-208-955-81 s	RES, CHIP 680K (1005)
R41	1-208-935-81 s	RES, CHIP 100K (1005)
R42	1-208-911-81 s	RES, CHIP 10K (1005)
R43	1-208-899-81 s	RES, CHIP 3.3K (1005)
R89	1-218-855-91 s	RES, CHIP 2.2K (1608)
R91	1-242-967-81 s	RES, CHIP 1.0 (1005)
R92	1-242-967-81 s	RES, CHIP 1.0 (1005)
R93	1-242-967-81 s	RES, CHIP 1.0 (1005)
R94	1-242-967-81 s	RES, CHIP 1.0 (1005)
R95	1-242-967-81 s	RES, CHIP 1.0 (1005)
R96	1-242-967-81 s	RES, CHIP 1.0 (1005)
R97	1-242-967-81 s	RES, CHIP 1.0 (1005)

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Ref. No. or Q'ty	Part No.	SP Description
R98	1-242-967-81	s RES, CHIP 1.0 (1005)
R99	1-242-967-81	s RES, CHIP 1.0 (1005)
R100	1-242-967-81	s RES, CHIP 1.0 (1005)
R101	1-208-863-81	s RES, CHIP 100 (1005)
R102	1-208-871-81	s RES, CHIP 220 (1005)
R103	1-208-895-81	s RES, CHIP 2.2K (1005)
R104	1-208-923-81	s RES, CHIP 33K (1005)
R105	1-208-923-81	s RES, CHIP 33K (1005)
R106	1-208-863-81	s RES, CHIP 100 (1005)
R107	1-208-871-81	s RES, CHIP 220 (1005)
R108	1-208-895-81	s RES, CHIP 2.2K (1005)
R109	1-208-923-81	s RES, CHIP 33K (1005)
R110	1-208-923-81	s RES, CHIP 33K (1005)
R111	1-208-919-81	s RES, CHIP 22K (1005)
R112	1-208-923-81	s RES, CHIP 33K (1005)
R113	1-208-907-81	s RES, CHIP 6.8K (1005)
R114	1-208-871-81	s RES, CHIP 220 (1005)
R115	1-208-871-81	s RES, CHIP 220 (1005)
R116	1-208-923-81	s RES, CHIP 33K (1005)
R117	1-208-923-81	s RES, CHIP 33K (1005)
R118	1-208-927-81	s RES, CHIP 47K (1005)
R119	1-208-931-81	s RES, CHIP 68K (1005)
R120	1-208-931-81	s RES, CHIP 68K (1005)
R121	1-208-911-81	s RES, CHIP 10K (1005)
R122	1-208-911-81	s RES, CHIP 10K (1005)
R123	1-216-833-91	s RES, CHIP 10K (1608)
R124	1-208-863-81	s RES, CHIP 100 (1005)
R125	1-216-833-91	s RES, CHIP 10K (1608)
R126	1-216-833-91	s RES, CHIP 10K (1608)
R127	1-216-833-91	s RES, CHIP 10K (1608)
R128	1-208-935-81	s RES, CHIP 100K (1005)
R129	1-208-911-81	s RES, CHIP 10K (1005)
R130	1-208-871-81	s RES, CHIP 220 (1005)
R131	1-208-871-81	s RES, CHIP 220 (1005)
R132	1-208-923-81	s RES, CHIP 33K (1005)
R133	1-208-923-81	s RES, CHIP 33K (1005)
R134	1-208-903-81	s RES, CHIP 4.7K (1005)
R135	1-208-927-81	s RES, CHIP 47K (1005)
R136	1-208-911-81	s RES, CHIP 10K (1005)
R137	1-208-911-81	s RES, CHIP 10K (1005)
R138	1-208-911-81	s RES, CHIP 10K (1005)
R140	1-208-895-81	s RES, CHIP 2.2K (1005)
R141	1-208-887-81	s RES, CHIP 1.0K (1005)
R142	1-208-887-81	s RES, CHIP 1.0K (1005)
R143	1-208-887-81	s RES, CHIP 1.0K (1005)
R144	1-208-911-81	s RES, CHIP 10K (1005)
R146	1-208-939-81	s RES, CHIP 150K (1005)
R147	1-208-939-81	s RES, CHIP 150K (1005)
R148	1-208-935-81	s RES, CHIP 100K (1005)
R149	1-208-923-81	s RES, CHIP 33K (1005)
R150	1-208-911-81	s RES, CHIP 10K (1005)
R152	1-218-990-81	s CONDUCTOR, CHIP (1005)
R153	1-208-871-81	s RES, CHIP 220 (1005)
R154	1-208-863-81	s RES, CHIP 100 (1005)
R156	1-208-955-81	s RES, CHIP 680K (1005)
R157	1-218-990-81	s CONDUCTOR, CHIP (1005)
R158	1-208-939-81	s RES, CHIP 150K (1005)
R159	1-208-911-81	s RES, CHIP 10K (1005)
R160	1-208-911-81	s RES, CHIP 10K (1005)

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Ref. No. or Q'ty	Part No.	SP Description
R161	1-208-911-81	s RES, CHIP 10K (1005)
R162	1-208-911-81	s RES, CHIP 10K (1005)
R163	1-208-927-81	s RES, CHIP 47K (1005)
R164	1-208-935-81	s RES, CHIP 100K (1005)
R165	1-208-863-81	s RES, CHIP 100 (1005)
R166	1-208-855-81	s RES, CHIP 47 (1005)
R167	1-208-935-81	s RES, CHIP 100K (1005)
R168	1-208-887-81	s RES, CHIP 1.0K (1005)
R169	1-208-863-81	s RES, CHIP 100 (1005)
R170	1-208-863-81	s RES, CHIP 100 (1005)
R171	1-208-887-81	s RES, CHIP 1.0K (1005)
R172	1-208-887-81	s RES, CHIP 1.0K (1005)
R173	1-208-887-81	s RES, CHIP 1.0K (1005)
R174	1-208-899-81	s RES, CHIP 3.3K (1005)
R175	1-208-899-81	s RES, CHIP 3.3K (1005)
R176	1-208-887-81	s RES, CHIP 1.0K (1005)
R177	1-208-883-81	s RES, CHIP 680 (1005)
R178	1-208-883-81	s RES, CHIP 680 (1005)
R179	1-208-907-81	s RES, CHIP 6.8K (1005)
R180	1-208-907-81	s RES, CHIP 6.8K (1005)
R181	1-208-887-81	s RES, CHIP 1.0K (1005)
R182	1-208-887-81	s RES, CHIP 1.0K (1005)
R183	1-208-919-81	s RES, CHIP 22K (1005)
R184	1-208-919-81	s RES, CHIP 22K (1005)
R185	1-208-919-81	s RES, CHIP 22K (1005)
R186	1-208-927-81	s RES, CHIP 47K (1005)
R187	1-208-863-81	s RES, CHIP 100 (1005)
R189	1-218-990-81	s CONDUCTOR, CHIP (1005)
R190	1-218-847-91	s RES, CHIP 1.0K (1608)
R191	1-208-911-81	s RES, CHIP 10K (1005)
R192	1-208-923-81	s RES, CHIP 33K (1005)
R193	1-218-839-91	s RES, CHIP 470 (1608)
R194	1-208-863-81	s RES, CHIP 100 (1005)
R195	1-208-867-81	s RES, CHIP 150 (1005)
R196	1-208-895-81	s RES, CHIP 2.2K (1005)
R197	1-208-895-81	s RES, CHIP 2.2K (1005)
R198	1-208-887-81	s RES, CHIP 1.0K (1005)
R199	1-208-887-81	s RES, CHIP 1.0K (1005)
R201	1-208-911-81	s RES, CHIP 10K (1005)
R202	1-208-911-81	s RES, CHIP 10K (1005)
R203	1-220-870-81	s RES, CHIP 10 (1005)
R204	1-208-911-81	s RES, CHIP 10K (1005)
R205	1-220-870-81	s RES, CHIP 10 (1005)
R206	1-208-863-81	s RES, CHIP 100 (1005)
R208	1-208-863-81	s RES, CHIP 100 (1005)
R209	1-208-863-81	s RES, CHIP 100 (1005)
R210	1-208-863-81	s RES, CHIP 100 (1005)
R211	1-208-863-81	s RES, CHIP 100 (1005)
R212	1-208-895-81	s RES, CHIP 2.2K (1005)
R213	1-208-863-81	s RES, CHIP 100 (1005)
R214	1-208-863-81	s RES, CHIP 100 (1005)
R216	1-220-870-81	s RES, CHIP 10 (1005)
R219	1-220-870-81	s RES, CHIP 10 (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)
R224	1-208-863-81	s RES, CHIP 100 (1005)
R225	1-208-871-81	s RES, CHIP 220 (1005)
R226	1-208-863-81	s RES, CHIP 100 (1005)

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Ref. No. or Q'ty	Part No.	SP Description
R227	1-208-863-81 s	RES, CHIP 100 (1005)
R228	1-208-911-81 s	RES, CHIP 10K (1005)
R229	1-208-935-81 s	RES, CHIP 100K (1005)
R235	1-208-855-81 s	RES, CHIP 47 (1005)
R240	1-208-863-81 s	RES, CHIP 100 (1005)
R247	1-208-863-81 s	RES, CHIP 100 (1005)
R248	1-208-863-81 s	RES, CHIP 100 (1005)
R249	1-208-863-81 s	RES, CHIP 100 (1005)
R252	1-208-863-81 s	RES, CHIP 100 (1005)
R255	1-208-871-81 s	RES, CHIP 220 (1005)
R256	1-208-863-81 s	RES, CHIP 100 (1005)
R257	1-208-863-81 s	RES, CHIP 100 (1005)
R258	1-208-863-81 s	RES, CHIP 100 (1005)
R259	1-208-863-81 s	RES, CHIP 100 (1005)
R262	1-208-863-81 s	RES, CHIP 100 (1005)
R264	1-208-863-81 s	RES, CHIP 100 (1005)
R265	1-208-863-81 s	RES, CHIP 100 (1005)
R266	1-208-863-81 s	RES, CHIP 100 (1005)
R267	1-208-863-81 s	RES, CHIP 100 (1005)
R270	1-208-863-81 s	RES, CHIP 100 (1005)
R401	1-208-863-81 s	RES, CHIP 100 (1005)
R402	1-208-863-81 s	RES, CHIP 100 (1005)
R403	1-208-863-81 s	RES, CHIP 100 (1005)
R404	1-208-863-81 s	RES, CHIP 100 (1005)
R405	1-208-855-81 s	RES, CHIP 47 (1005)
R406	1-208-855-81 s	RES, CHIP 47 (1005)
R407	1-208-871-81 s	RES, CHIP 220 (1005)
R408	1-208-855-81 s	RES, CHIP 47 (1005)
R450	1-220-870-81 s	RES, CHIP 10 (1005)
R453	1-220-870-81 s	RES, CHIP 10 (1005)
R458	1-208-871-81 s	RES, CHIP 220 (1005)
R459	1-208-871-81 s	RES, CHIP 220 (1005)
R460	1-208-863-81 s	RES, CHIP 100 (1005)
R461	1-208-863-81 s	RES, CHIP 100 (1005)
R462	1-208-863-81 s	RES, CHIP 100 (1005)
R463	1-208-855-81 s	RES, CHIP 47 (1005)
R464	1-208-855-81 s	RES, CHIP 47 (1005)
R469	1-208-855-81 s	RES, CHIP 47 (1005)
R473	1-208-863-81 s	RES, CHIP 100 (1005)
R474	1-208-863-81 s	RES, CHIP 100 (1005)
R490	1-220-870-81 s	RES, CHIP 10 (1005)
R491	1-220-870-81 s	RES, CHIP 10 (1005)
R494	1-220-870-81 s	RES, CHIP 10 (1005)
R495	1-220-870-81 s	RES, CHIP 10 (1005)
R496	1-208-855-81 s	RES, CHIP 47 (1005)
R497	1-208-855-81 s	RES, CHIP 47 (1005)
R501	1-208-911-81 s	RES, CHIP 10K (1005)
R503	1-208-863-81 s	RES, CHIP 100 (1005)
R504	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R505	1-208-855-81 s	RES, CHIP 47 (1005)
R506	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R507	1-208-887-81 s	RES, CHIP 1.0K (1005)
R508	1-208-887-81 s	RES, CHIP 1.0K (1005)
R509	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R510	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R511	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R512	1-208-911-81 s	RES, CHIP 10K (1005)
R519	1-208-911-81 s	RES, CHIP 10K (1005)
R520	1-208-911-81 s	RES, CHIP 10K (1005)

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Ref. No. or Q'ty	Part No.	SP Description
R521	1-208-863-81 s	RES, CHIP 100 (1005)
R522	1-208-855-81 s	RES, CHIP 47 (1005)
R523	1-208-895-81 s	RES, CHIP 2.2K (1005)
R524	1-208-855-81 s	RES, CHIP 47 (1005)
R525	1-208-855-81 s	RES, CHIP 47 (1005)
R526	1-208-875-81 s	RES, CHIP 330 (1005)
R527	1-208-903-81 s	RES, CHIP 4.7K (1005)
R530	1-208-863-81 s	RES, CHIP 100 (1005)
R531	1-208-903-81 s	RES, CHIP 4.7K (1005)
R532	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R533	1-208-863-81 s	RES, CHIP 100 (1005)
R536	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R538	1-220-882-81 s	RES, CHIP 33 (1005)
R596	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R597	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R598	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R599	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R600	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R601	1-208-856-81 s	RES, CHIP 51 (1005)
R602	1-208-935-81 s	RES, CHIP 100K (1005)
R603	1-208-911-81 s	RES, CHIP 10K (1005)
R604	1-208-856-81 s	RES, CHIP 51 (1005)
R605	1-208-883-81 s	RES, CHIP 680 (1005)
R606	1-220-882-81 s	RES, CHIP 33 (1005)
R607	1-208-860-81 s	RES, CHIP 75 (1005)
R608	1-208-903-81 s	RES, CHIP 4.7K (1005)
R609	1-208-860-81 s	RES, CHIP 75 (1005)
R610	1-208-863-81 s	RES, CHIP 100 (1005)
R612	1-208-863-81 s	RES, CHIP 100 (1005)
R613	1-208-935-81 s	RES, CHIP 100K (1005)
R615	1-208-903-81 s	RES, CHIP 4.7K (1005)
R618	1-208-935-81 s	RES, CHIP 100K (1005)
R619	1-208-911-81 s	RES, CHIP 10K (1005)
R620	1-208-911-81 s	RES, CHIP 10K (1005)
R621	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R623	1-208-911-81 s	RES, CHIP 10K (1005)
R624	1-208-859-81 s	RES, CHIP 68 (1005)
R626	1-208-859-81 s	RES, CHIP 68 (1005)
R627	1-208-860-81 s	RES, CHIP 75 (1005)
R628	1-208-860-81 s	RES, CHIP 75 (1005)
R629	1-208-860-81 s	RES, CHIP 75 (1005)
R630	1-208-863-81 s	RES, CHIP 100 (1005)
R631	1-208-863-81 s	RES, CHIP 100 (1005)
R632	1-208-923-81 s	RES, CHIP 33K (1005)
R635	1-208-860-81 s	RES, CHIP 75 (1005)
R636	1-208-860-81 s	RES, CHIP 75 (1005)
R639	1-208-919-81 s	RES, CHIP 22K (1005)
R640	1-208-911-81 s	RES, CHIP 10K (1005)
R641	1-208-919-81 s	RES, CHIP 22K (1005)
R642	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R643	1-208-935-81 s	RES, CHIP 100K (1005)
R645	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R646	1-208-935-81 s	RES, CHIP 100K (1005)
R647	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	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R652	1-208-863-81 s	RES, CHIP 100 (1005)
R653	1-208-863-81 s	RES, CHIP 100 (1005)

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Ref. No. or Q'ty	Part No.	SP	Description
R655	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R656	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R657	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R658	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R660	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R661	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R662	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R670	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R701	1-220-870-81	s	RES, CHIP 10 (1005)
R703	1-220-870-81	s	RES, CHIP 10 (1005)
R704	1-208-951-81	s	RES, CHIP 470K (1005)
R705	1-208-907-81	s	RES, CHIP 6.8K (1005)
R706	1-208-939-81	s	RES, CHIP 150K (1005)
R707	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R708	1-208-923-81	s	RES, CHIP 33K (1005)
R709	1-208-863-81	s	RES, CHIP 100 (1005)
R710	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R711	1-208-887-81	s	RES, CHIP 1.0K (1005)
R712	1-208-887-81	s	RES, CHIP 1.0K (1005)
R713	1-208-911-81	s	RES, CHIP 10K (1005)
R714	1-208-907-81	s	RES, CHIP 6.8K (1005)
R715	1-208-911-81	s	RES, CHIP 10K (1005)
R716	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R717	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R718	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R719	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R720	1-208-863-81	s	RES, CHIP 100 (1005)
R722	1-220-870-81	s	RES, CHIP 10 (1005)
R723	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R724	1-208-911-81	s	RES, CHIP 10K (1005)
R725	1-208-911-81	s	RES, CHIP 10K (1005)
R726	1-220-870-81	s	RES, CHIP 10 (1005)
R728	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R730	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R732	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R734	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R736	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R738	1-208-863-81	s	RES, CHIP 100 (1005)
R740	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R741	1-208-855-81	s	RES, CHIP 47 (1005)
R742	1-220-870-81	s	RES, CHIP 10 (1005)
R744	1-208-871-81	s	RES, CHIP 220 (1005)
R745	1-208-871-81	s	RES, CHIP 220 (1005)
R746	1-208-871-81	s	RES, CHIP 220 (1005)
R747	1-208-871-81	s	RES, CHIP 220 (1005)
R748	1-208-871-81	s	RES, CHIP 220 (1005)
R749	1-208-887-81	s	RES, CHIP 1.0K (1005)
R750	1-208-860-81	s	RES, CHIP 75 (1005)
R751	1-208-867-81	s	RES, CHIP 150 (1005)
R752	1-208-867-81	s	RES, CHIP 150 (1005)
R753	1-208-875-81	s	RES, CHIP 330 (1005)
R755	1-208-899-81	s	RES, CHIP 3.3K (1005)
R756	1-208-860-81	s	RES, CHIP 75 (1005)
R757	1-208-860-81	s	RES, CHIP 75 (1005)
R759	1-208-919-81	s	RES, CHIP 22K (1005)
R760	1-208-911-81	s	RES, CHIP 10K (1005)
R761	1-208-919-81	s	RES, CHIP 22K (1005)
R762	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R763	1-218-990-81	s	CONDUCTOR, CHIP (1005)

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Ref. No. or Q'ty	Part No.	SP	Description
R764	1-208-935-81	s	RES, CHIP 100K (1005)
R769	1-208-935-81	s	RES, CHIP 100K (1005)
R770	1-208-911-81	s	RES, CHIP 10K (1005)
R801	1-208-863-81	s	RES, CHIP 100 (1005)
R803	1-208-855-81	s	RES, CHIP 47 (1005)
R804	1-208-903-81	s	RES, CHIP 4.7K (1005)
R805	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R806	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R807	1-208-863-81	s	RES, CHIP 100 (1005)
R808	1-208-915-81	s	RES, CHIP 15K (1005)
R809	1-208-899-81	s	RES, CHIP 3.3K (1005)
R810	1-208-903-81	s	RES, CHIP 4.7K (1005)
R811	1-208-875-81	s	RES, CHIP 330 (1005)
R812	1-208-887-81	s	RES, CHIP 1.0K (1005)
R814	1-208-887-81	s	RES, CHIP 1.0K (1005)
R815	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R816	1-208-863-81	s	RES, CHIP 100 (1005)
R817	1-208-871-81	s	RES, CHIP 220 (1005)
R818	1-208-907-81	s	RES, CHIP 6.8K (1005)
R819	1-208-875-81	s	RES, CHIP 330 (1005)
R820	1-208-871-81	s	RES, CHIP 220 (1005)
R821	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R822	1-208-895-81	s	RES, CHIP 2.2K (1005)
R823	1-220-870-81	s	RES, CHIP 10 (1005)
R824	1-208-863-81	s	RES, CHIP 100 (1005)
R825	1-208-867-81	s	RES, CHIP 150 (1005)
R826	1-208-867-81	s	RES, CHIP 150 (1005)
R851	1-208-863-81	s	RES, CHIP 100 (1005)
R853	1-208-855-81	s	RES, CHIP 47 (1005)
R854	1-208-903-81	s	RES, CHIP 4.7K (1005)
R855	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R856	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R857	1-208-863-81	s	RES, CHIP 100 (1005)
R858	1-208-915-81	s	RES, CHIP 15K (1005)
R859	1-208-899-81	s	RES, CHIP 3.3K (1005)
R860	1-208-903-81	s	RES, CHIP 4.7K (1005)
R861	1-208-875-81	s	RES, CHIP 330 (1005)
R862	1-208-887-81	s	RES, CHIP 1.0K (1005)
R864	1-208-887-81	s	RES, CHIP 1.0K (1005)
R865	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R866	1-208-863-81	s	RES, CHIP 100 (1005)
R867	1-208-907-81	s	RES, CHIP 6.8K (1005)
R868	1-208-871-81	s	RES, CHIP 220 (1005)
R869	1-208-875-81	s	RES, CHIP 330 (1005)
R870	1-208-871-81	s	RES, CHIP 220 (1005)
R871	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R872	1-208-895-81	s	RES, CHIP 2.2K (1005)
R873	1-220-870-81	s	RES, CHIP 10 (1005)
R874	1-208-863-81	s	RES, CHIP 100 (1005)
R875	1-208-867-81	s	RES, CHIP 150 (1005)
R876	1-208-867-81	s	RES, CHIP 150 (1005)
R877	1-220-870-81	s	RES, CHIP 10 (1005)
R901	1-208-911-81	s	RES, CHIP 10K (1005)
R902	1-208-911-81	s	RES, CHIP 10K (1005)
R903	1-208-911-81	s	RES, CHIP 10K (1005)
R904	1-208-911-81	s	RES, CHIP 10K (1005)
R905	1-208-911-81	s	RES, CHIP 10K (1005)
R906	1-208-911-81	s	RES, CHIP 10K (1005)
R907	1-208-911-81	s	RES, CHIP 10K (1005)

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Ref. No. or Q'ty	Part No.	SP Description
R908	1-208-911-81 s	RES, CHIP 10K (1005)
R909	1-208-911-81 s	RES, CHIP 10K (1005)
R910	1-208-911-81 s	RES, CHIP 10K (1005)
R911	1-208-911-81 s	RES, CHIP 10K (1005)
R912	1-208-911-81 s	RES, CHIP 10K (1005)
R913	1-208-911-81 s	RES, CHIP 10K (1005)
R914	1-208-911-81 s	RES, CHIP 10K (1005)
R915	1-208-911-81 s	RES, CHIP 10K (1005)
R922	1-208-911-81 s	RES, CHIP 10K (1005)
R923	1-208-911-81 s	RES, CHIP 10K (1005)
R924	1-208-911-81 s	RES, CHIP 10K (1005)
R926	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R927	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R929	1-208-887-81 s	RES, CHIP 1.0K (1005)
R930	1-208-887-81 s	RES, CHIP 1.0K (1005)
R935	1-208-911-81 s	RES, CHIP 10K (1005)
R936	1-208-911-81 s	RES, CHIP 10K (1005)
R937	1-208-911-81 s	RES, CHIP 10K (1005)
R938	1-208-911-81 s	RES, CHIP 10K (1005)
R941	1-208-887-81 s	RES, CHIP 1.0K (1005)
R942	1-208-887-81 s	RES, CHIP 1.0K (1005)
R943	1-208-887-81 s	RES, CHIP 1.0K (1005)
R944	1-208-895-81 s	RES, CHIP 2.2K (1005)
R945	1-208-895-81 s	RES, CHIP 2.2K (1005)
R948	1-208-879-81 s	RES, CHIP 470 (1005)
R949	1-208-883-81 s	RES, CHIP 680 (1005)
R952	1-208-887-81 s	RES, CHIP 1.0K (1005)
R954	1-208-887-81 s	RES, CHIP 1.0K (1005)
R960	1-208-871-81 s	RES, CHIP 220 (1005)
R962	1-208-871-81 s	RES, CHIP 220 (1005)
R965	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R966	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R969	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R970	1-208-863-81 s	RES, CHIP 100 (1005)
R971	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R972	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R973	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R974	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R975	1-208-863-81 s	RES, CHIP 100 (1005)
R976	1-208-895-81 s	RES, CHIP 2.2K (1005)
R977	1-208-863-81 s	RES, CHIP 100 (1005)
R978	1-208-887-81 s	RES, CHIP 1.0K (1005)
R979	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R980	1-208-895-81 s	RES, CHIP 2.2K (1005)
R981	1-208-863-81 s	RES, CHIP 100 (1005)
R982	1-208-895-81 s	RES, CHIP 2.2K (1005)
R983	1-208-895-81 s	RES, CHIP 2.2K (1005)
R984	1-208-863-81 s	RES, CHIP 100 (1005)
R985	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R986	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R987	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R988	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R989	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R990	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R991	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R992	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R993	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R994	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R995	1-218-990-81 s	CONDUCTOR, CHIP (1005)

(SDI-95 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R996	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R997	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R998	1-208-863-81 s	RES, CHIP 100 (1005)
R999	1-208-895-81 s	RES, CHIP 2.2K (1005)
R1000	1-208-863-81 s	RES, CHIP 100 (1005)
R1001	1-208-871-81 s	RES, CHIP 220 (1005)
R1002	1-208-871-81 s	RES, CHIP 220 (1005)
R1003	1-208-871-81 s	RES, CHIP 220 (1005)
R1006	1-208-871-81 s	RES, CHIP 220 (1005)
R1007	1-208-895-81 s	RES, CHIP 2.2K (1005)
R1010	1-208-863-81 s	RES, CHIP 100 (1005)
R1011	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R1012	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R1015	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R1018	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R1019	1-208-863-81 s	RES, CHIP 100 (1005)
R1020	1-208-863-81 s	RES, CHIP 100 (1005)
R1025	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R1026	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R1027	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R1028	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R1048	1-208-927-81 s	RES, CHIP 47K (1005)
R1049	1-208-927-81 s	RES, CHIP 47K (1005)
R1050	1-208-927-81 s	RES, CHIP 47K (1005)
R1051	1-208-927-81 s	RES, CHIP 47K (1005)
R1052	1-208-927-81 s	RES, CHIP 47K (1005)
R1053	1-208-927-81 s	RES, CHIP 47K (1005)
R1054	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R1055	1-208-887-81 s	RES, CHIP 1.0K (1005)
R1056	1-208-887-81 s	RES, CHIP 1.0K (1005)
R1057	1-208-887-81 s	RES, CHIP 1.0K (1005)
R1058	1-208-887-81 s	RES, CHIP 1.0K (1005)
R1059	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R1060	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R1061	1-208-871-81 s	RES, CHIP 220 (1005)
R1062	1-208-871-81 s	RES, CHIP 220 (1005)
R1064	1-218-990-81 s	CONDUCTOR, CHIP (1005)
RB211	1-234-372-21 s	RES, NETWORK 100 (1005X4)
RB212	1-234-373-21 s	RES, NETWORK 220 (1005X4)
RB213	1-234-372-21 s	RES, NETWORK 100 (1005X4)
RB214	1-234-372-21 s	RES, NETWORK 100 (1005X4)
RB215	1-234-372-21 s	RES, NETWORK 100 (1005X4)
RB216	1-234-372-21 s	RES, NETWORK 100 (1005X4)
RB222	1-234-381-21 s	RES, NETWORK 100K (1005X4)
RB223	1-234-381-21 s	RES, NETWORK 100K (1005X4)
RB401	1-234-373-21 s	RES, NETWORK 220 (1005X4)
RB402	1-234-373-21 s	RES, NETWORK 220 (1005X4)
RB403	1-234-373-21 s	RES, NETWORK 220 (1005X4)
RB404	1-234-373-21 s	RES, NETWORK 220 (1005X4)
RB405	1-234-373-21 s	RES, NETWORK 220 (1005X4)
RB406	1-234-373-21 s	RES, NETWORK 220 (1005X4)
RB407	1-234-371-21 s	RES, NETWORK 47 (1005X4)
RB408	1-234-373-21 s	RES, NETWORK 220 (1005X4)
RB409	1-234-373-21 s	RES, NETWORK 220 (1005X4)
RB410	1-234-373-21 s	RES, NETWORK 220 (1005X4)
RB411	1-234-373-21 s	RES, NETWORK 220 (1005X4)
RB412	1-234-373-21 s	RES, NETWORK 220 (1005X4)
RB413	1-234-373-21 s	RES, NETWORK 220 (1005X4)

(SDI-95 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
RB414	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB415	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB416	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB417	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB418	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB419	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB420	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB421	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB422	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB423	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB424	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB425	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB426	1-234-373-21	s	RES, NETWORK 220 (1005X4)
RB427	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB428	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB429	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB430	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB431	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB432	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB433	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB501	1-234-381-21	s	RES, NETWORK 100K (1005X4)
RB601	1-234-376-21	s	RES, NETWORK 2.2K (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	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB609	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB610	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB611	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB612	1-234-380-21	s	RES, NETWORK 47K (1005X4)
RB613	1-234-380-21	s	RES, NETWORK 47K (1005X4)
RB614	1-234-380-21	s	RES, NETWORK 47K (1005X4)
RB615	1-234-376-21	s	RES, NETWORK 2.2K (1005X4)
RB616	1-234-375-21	s	RES, NETWORK 1K (1005X4)
RB617	1-234-375-21	s	RES, NETWORK 1K (1005X4)
RB618	1-234-376-21	s	RES, NETWORK 2.2K (1005X4)
RB701	1-234-373-21	s	RES, NETWORK 220 (1005X4)
RB702	1-234-373-21	s	RES, NETWORK 220 (1005X4)
RB801	1-234-373-21	s	RES, NETWORK 220 (1005X4)
RB802	1-234-373-21	s	RES, NETWORK 220 (1005X4)
RB851	1-234-373-21	s	RES, NETWORK 220 (1005X4)
RB852	1-234-373-21	s	RES, NETWORK 220 (1005X4)
S201	1-692-271-41	s	SWITCH, SLIDE
S202	1-771-721-21	s	SWITCH, TACTILE
S601	1-771-721-21	s	SWITCH, TACTILE
S602	1-771-721-21	s	SWITCH, TACTILE
S603	1-771-721-21	s	SWITCH, TACTILE
S604	1-692-270-41	s	SWITCH, SLIDE
S605	1-692-270-41	s	SWITCH, SLIDE
TP203	1-535-877-22	s	CHIP, CHECKER
TP701	1-535-877-22	s	CHIP, CHECKER
TP702	1-535-877-22	s	CHIP, CHECKER
TP801	1-535-877-22	s	CHIP, CHECKER
TP851	1-535-877-22	s	CHIP, CHECKER
X901	1-795-670-12	s	OSCILLATOR, CRYSTAL (VCXO) 3.3V

(SDI-95 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
X902	1-814-422-11	s	OSCILLATOR, CRYSTAL (VCXO)
X903	1-795-671-12	s	OSCILLATOR, CRYSTAL (VCXO) 3.3V
X904	1-814-421-11	s	OSCILLATOR, CRYSTAL (VCXO)

4-4. Supplied Accessories

Part No.	SP Description
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A-8327-351-A o MOUNTED CIRCUIT BOARD, EX-738
A-8344-327-A s EXTENSION ASSY,DPR-197
J-6480-010-A o ALIGNMENT SLEEVE REMOVER
J-7120-140-A o PLD DOWNLOAD FIXTURE

4-4-1. HKC-HB10

Ref. No.

or Q'ty	Part No.	SP Description
---------	----------	----------------

1pc	Δ 1-837-858-11	s	OPTICAL MULTI CABLE ASSEMBLY-M (Made by LEMO)
1pc	Δ 1-838-044-11	s	OPTICAL MULTI CABLE ASSEMBLY (Made by TAJIMI)
2pcs	3-364-941-01	s	SCREW (+B) (2.6X5), NYLOK
2pcs	3-725-295-21	s	SCREW, (+) (B3)

4-4-2. HKC-HB15

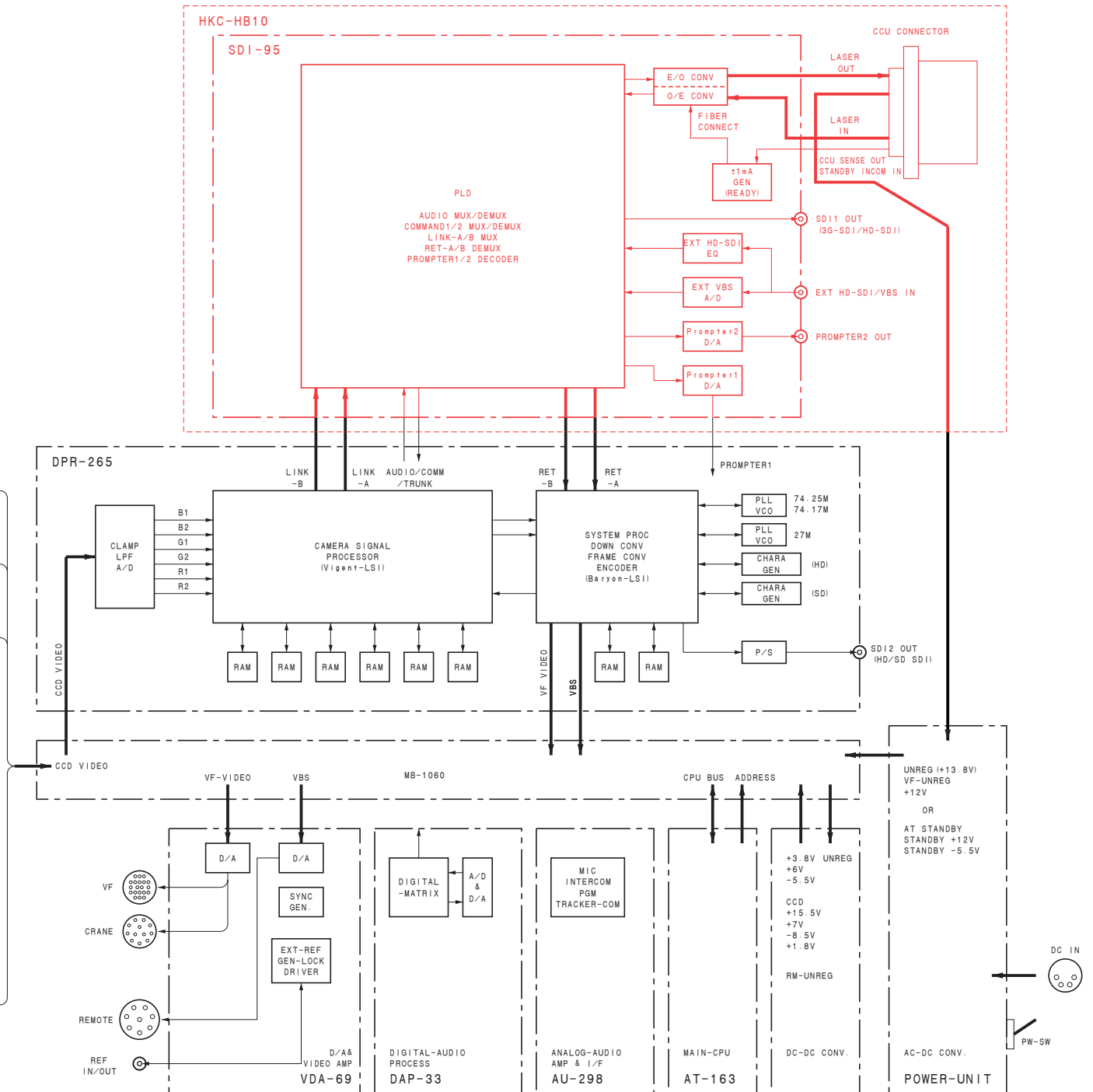
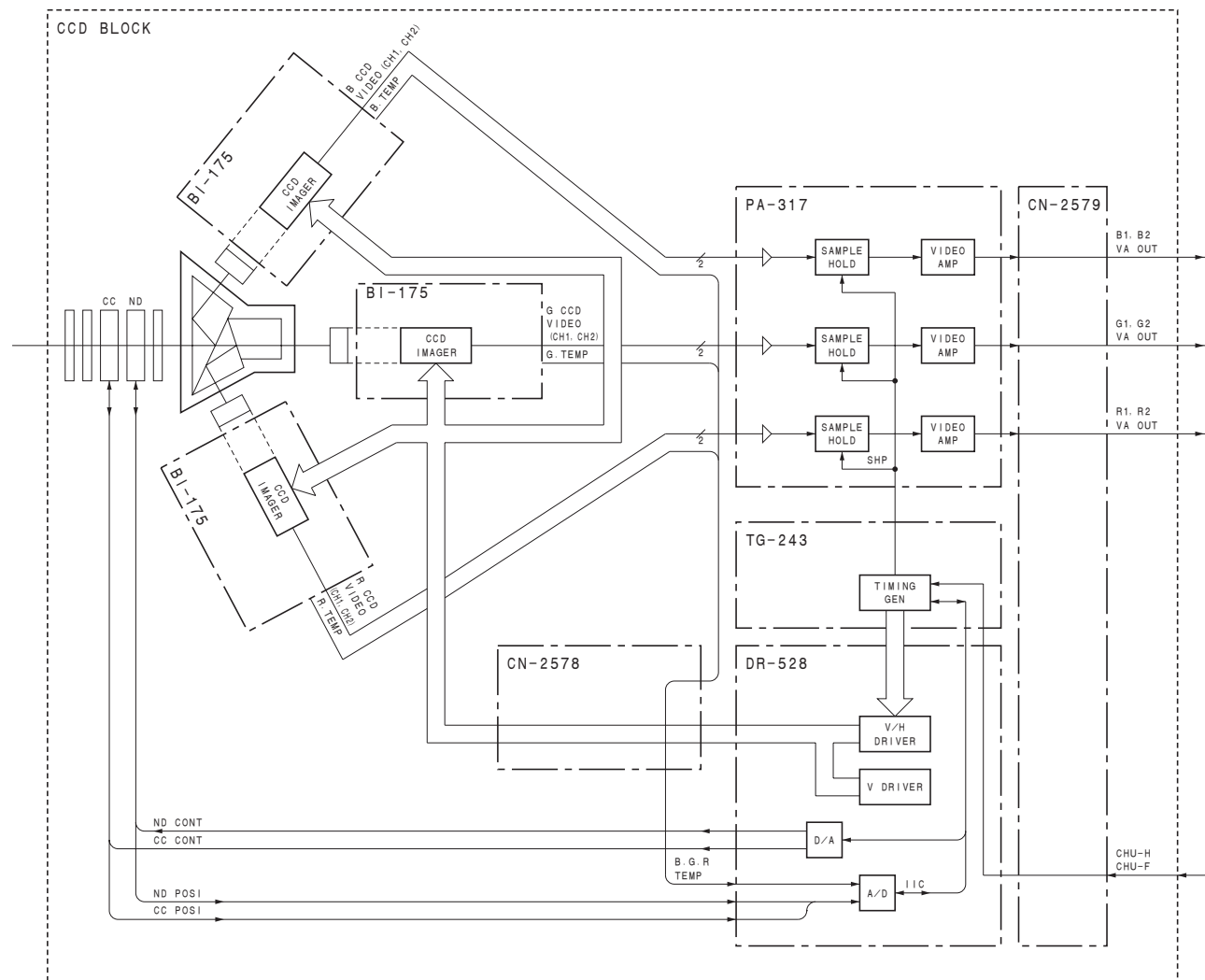
Ref. No.

or Q'ty	Part No.	SP Description
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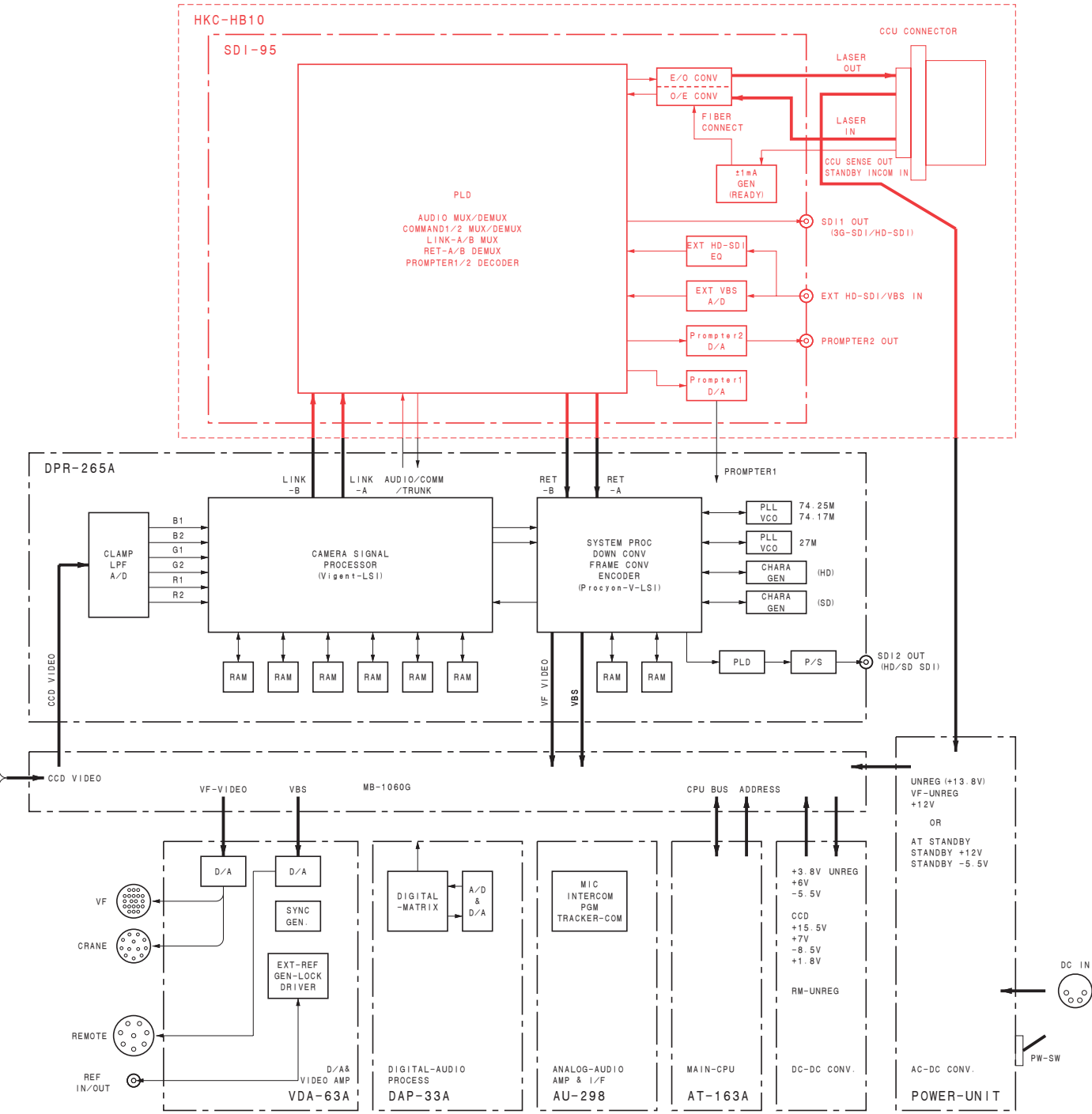
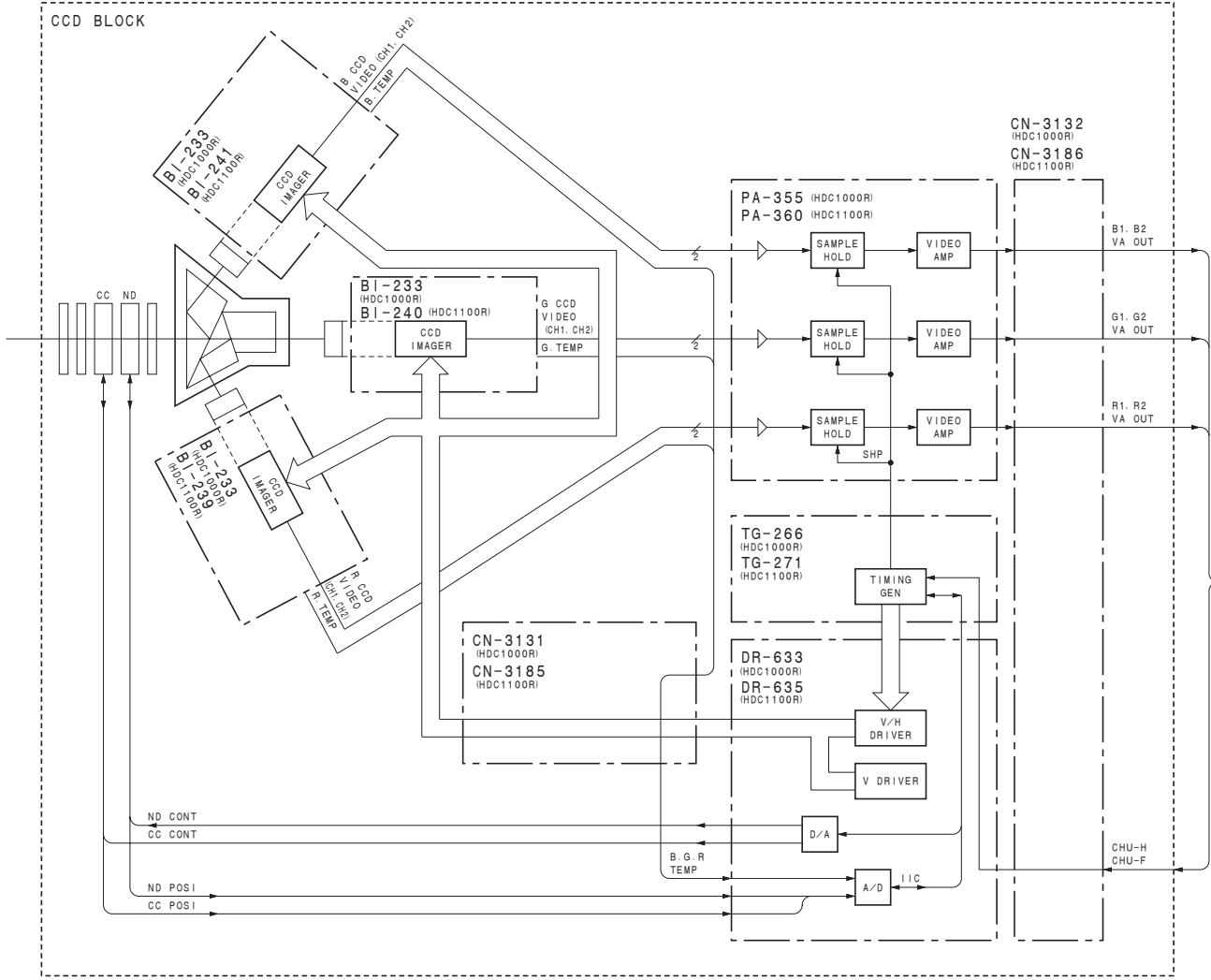
1pc	Δ 1-837-857-11	s	OPTICAL MULTI CABLE ASSEMBLY-M (Made by LEMO)
1pc	Δ 1-838-043-11	s	OPTICAL MULTI CABLE ASSEMBLY (Made by TAJIMI)
4pcs	3-364-941-01	s	SCREW (+B) (2.6X5), NYLOK
4pcs	4-654-273-02	s	ACE (M2), LOCK
7pcs	7-621-775-20	s	SCREW +B 2.6X5

Section 5

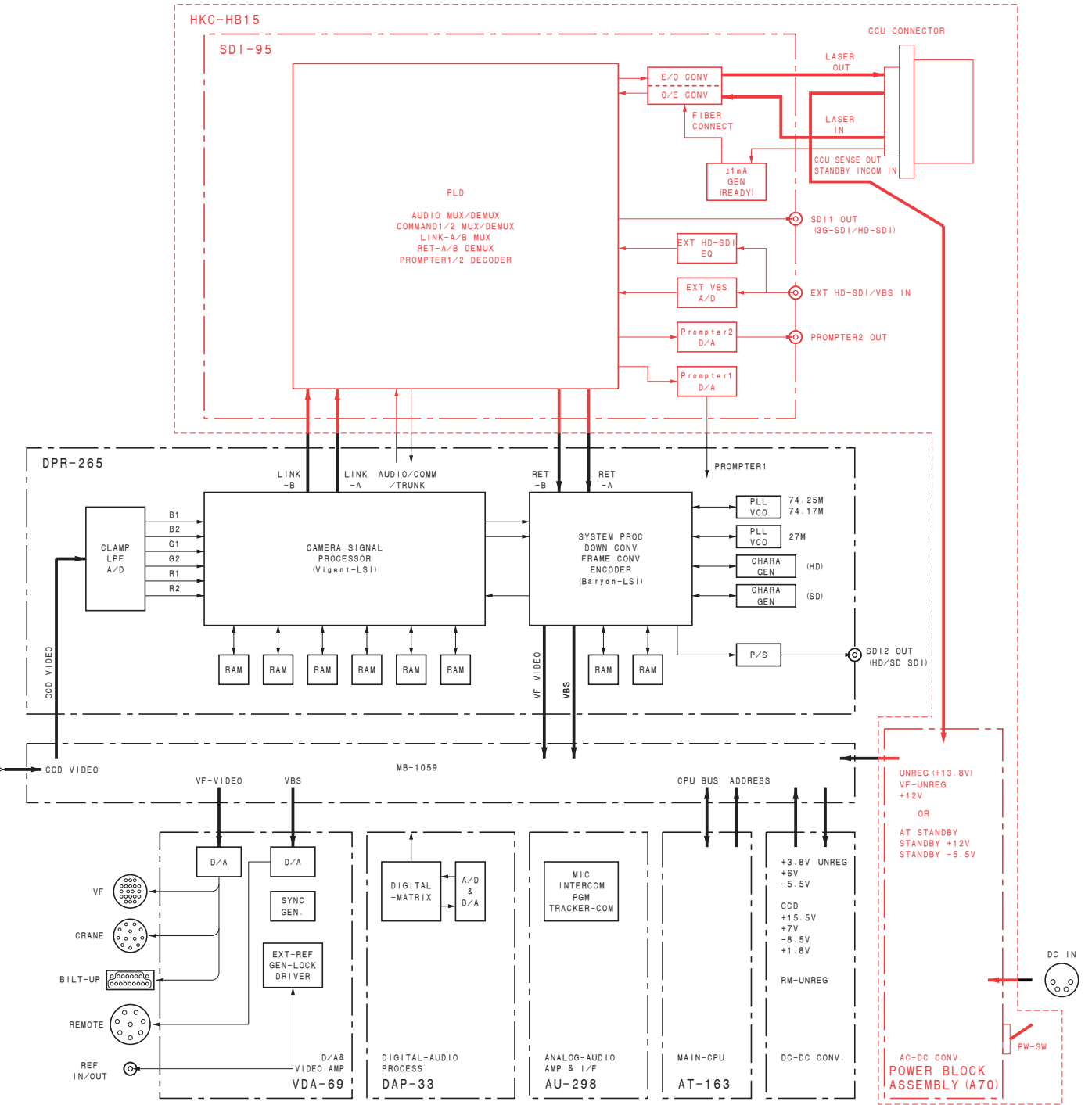
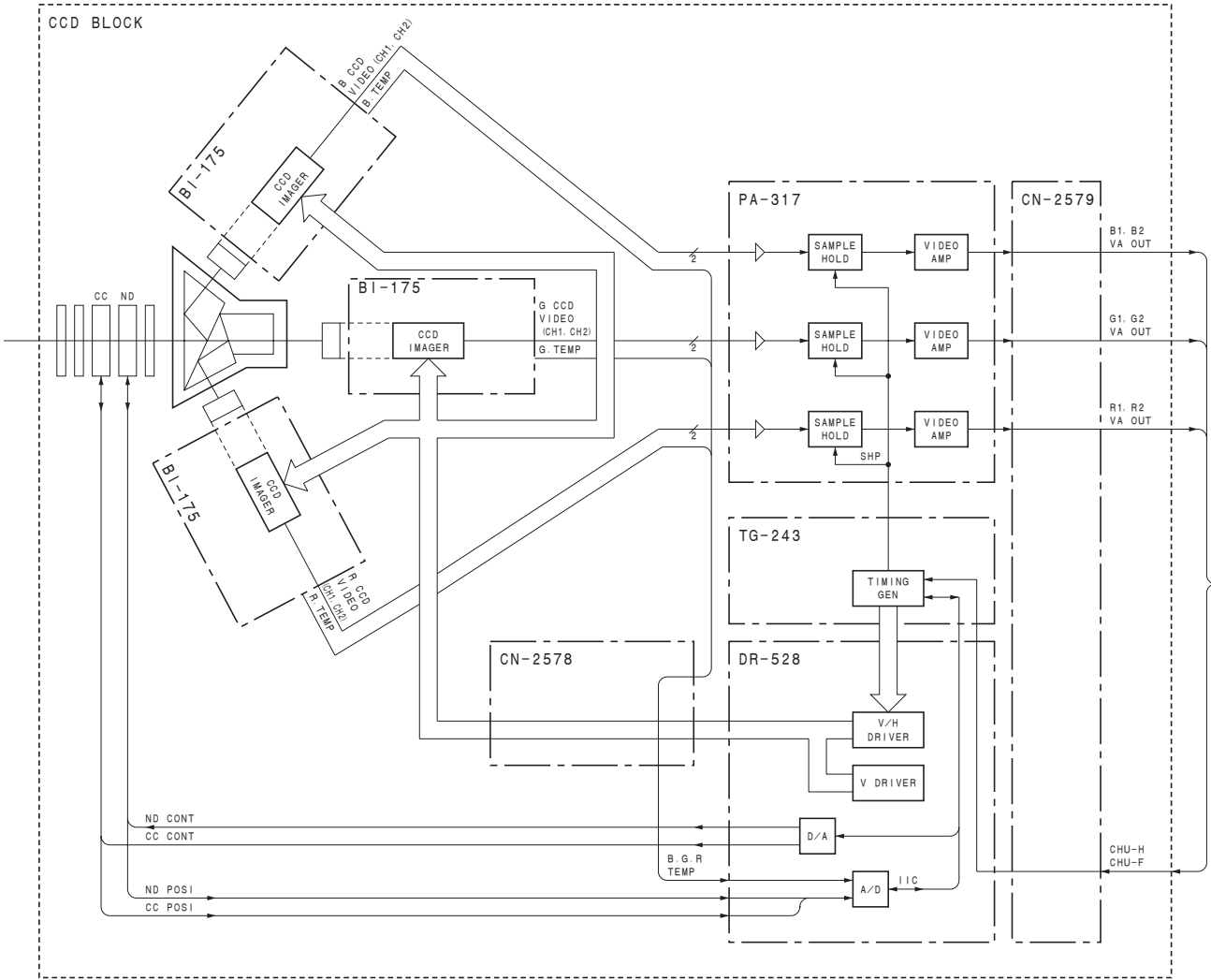
Block Diagrams



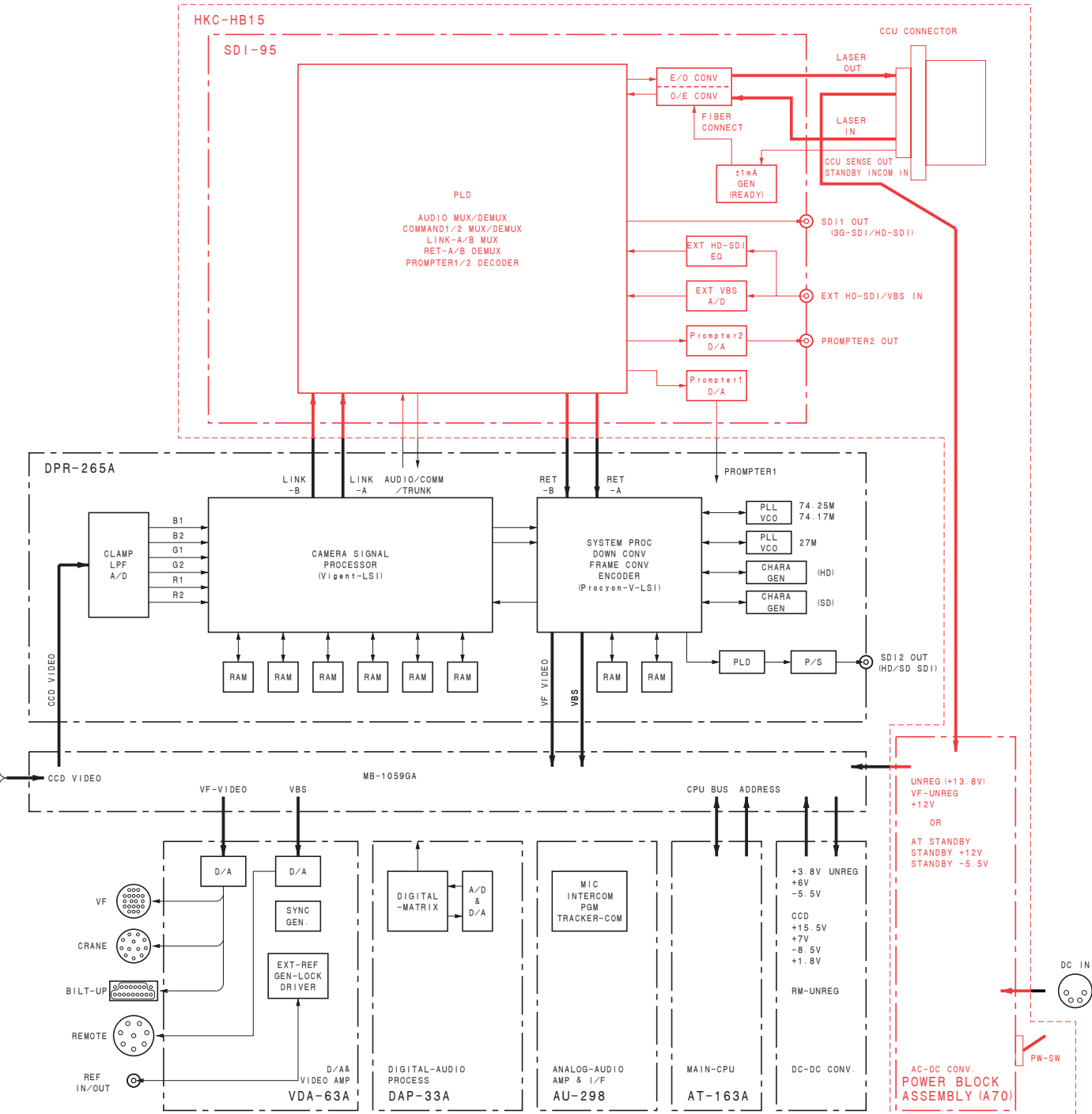
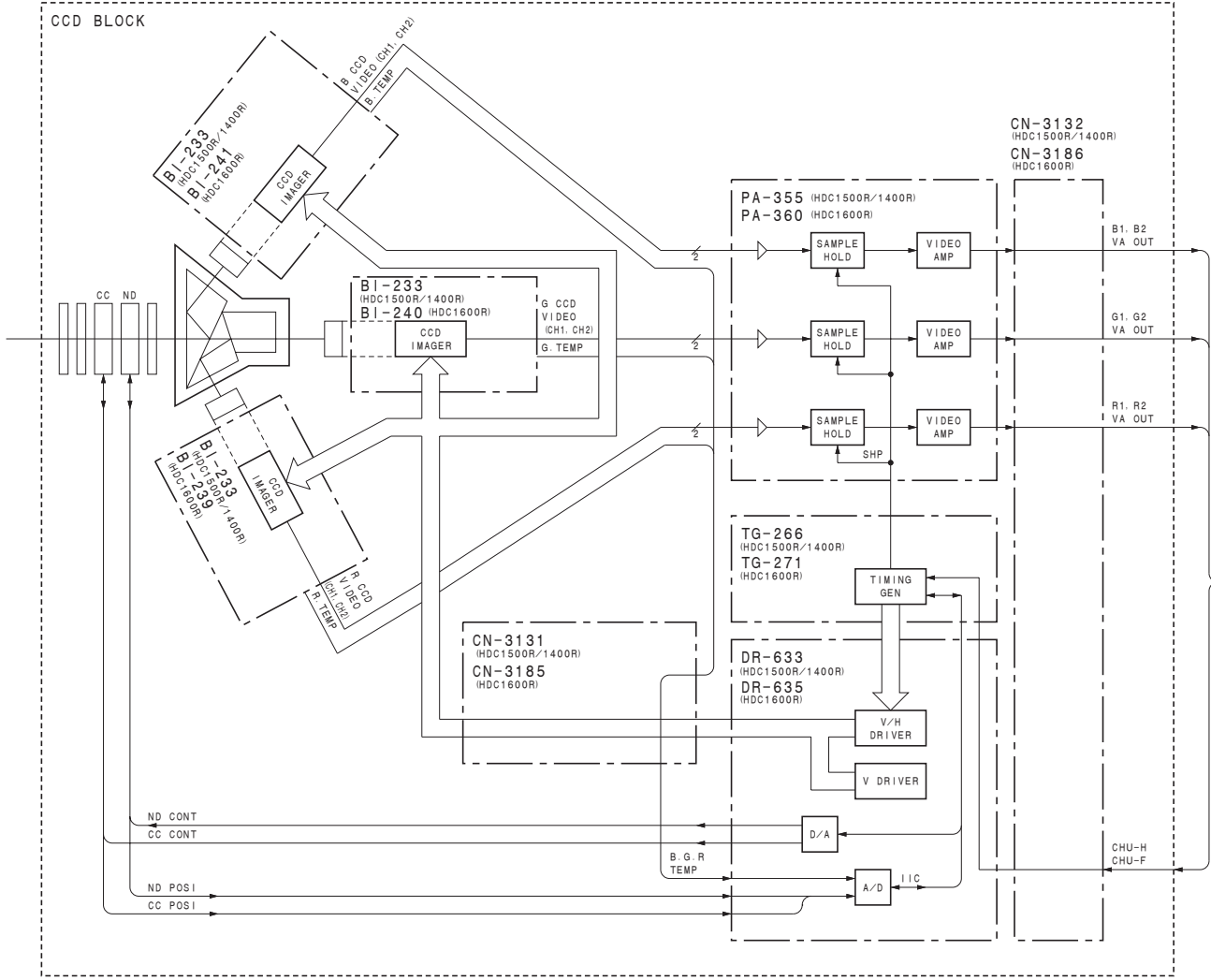
Overall
HDC1000 + HKC-HB10



Overall
HDC1000R/1100R + HKC-HB10



Overall
HDC1500 + HKC-HB15



Overall
HDC1400R/1500R/1600R + HKC-HB15

SDI-95 (2/9)

SUFFIX: -11

SDI-95 (2/9)

SUFFIX: -11

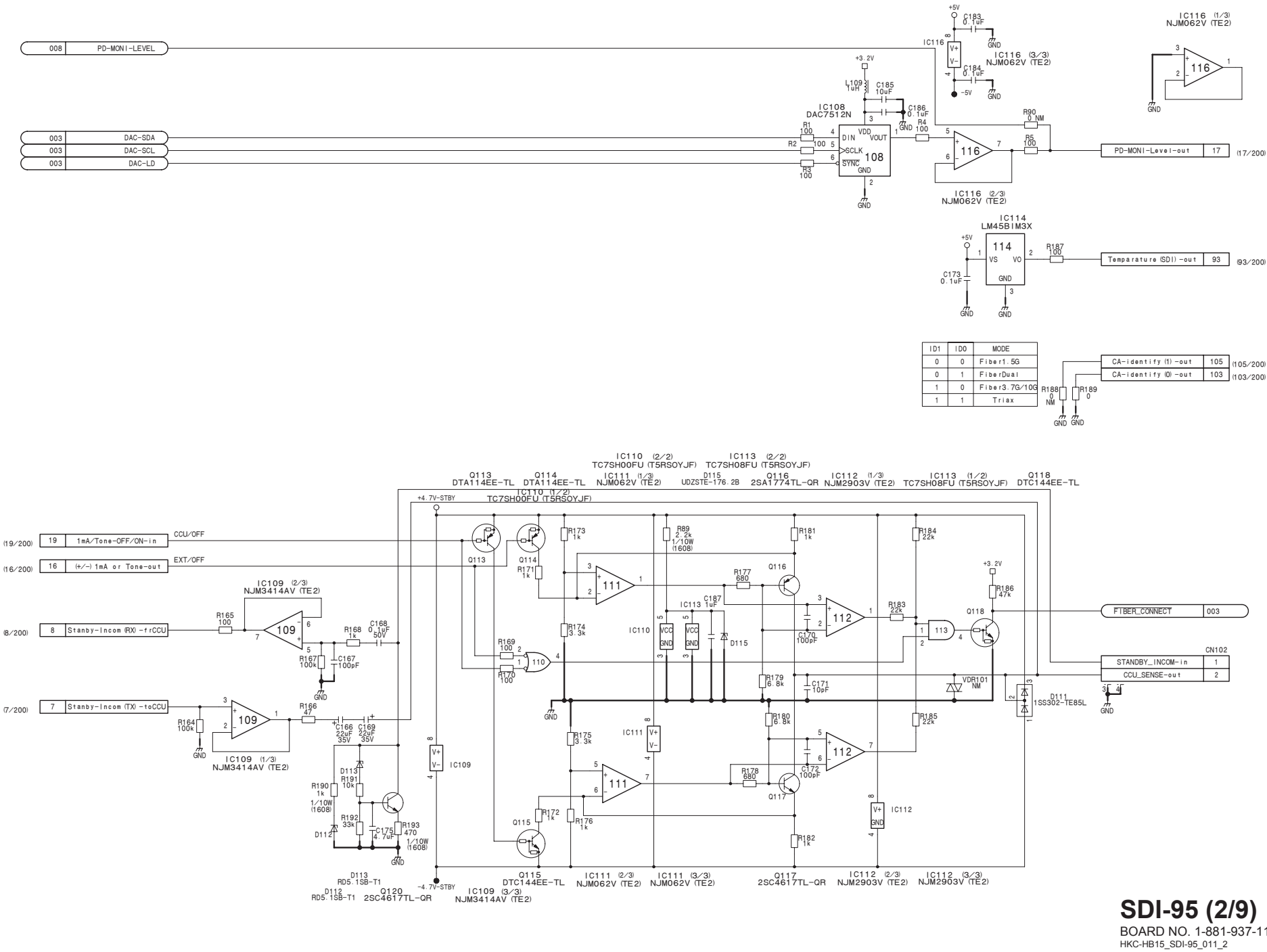
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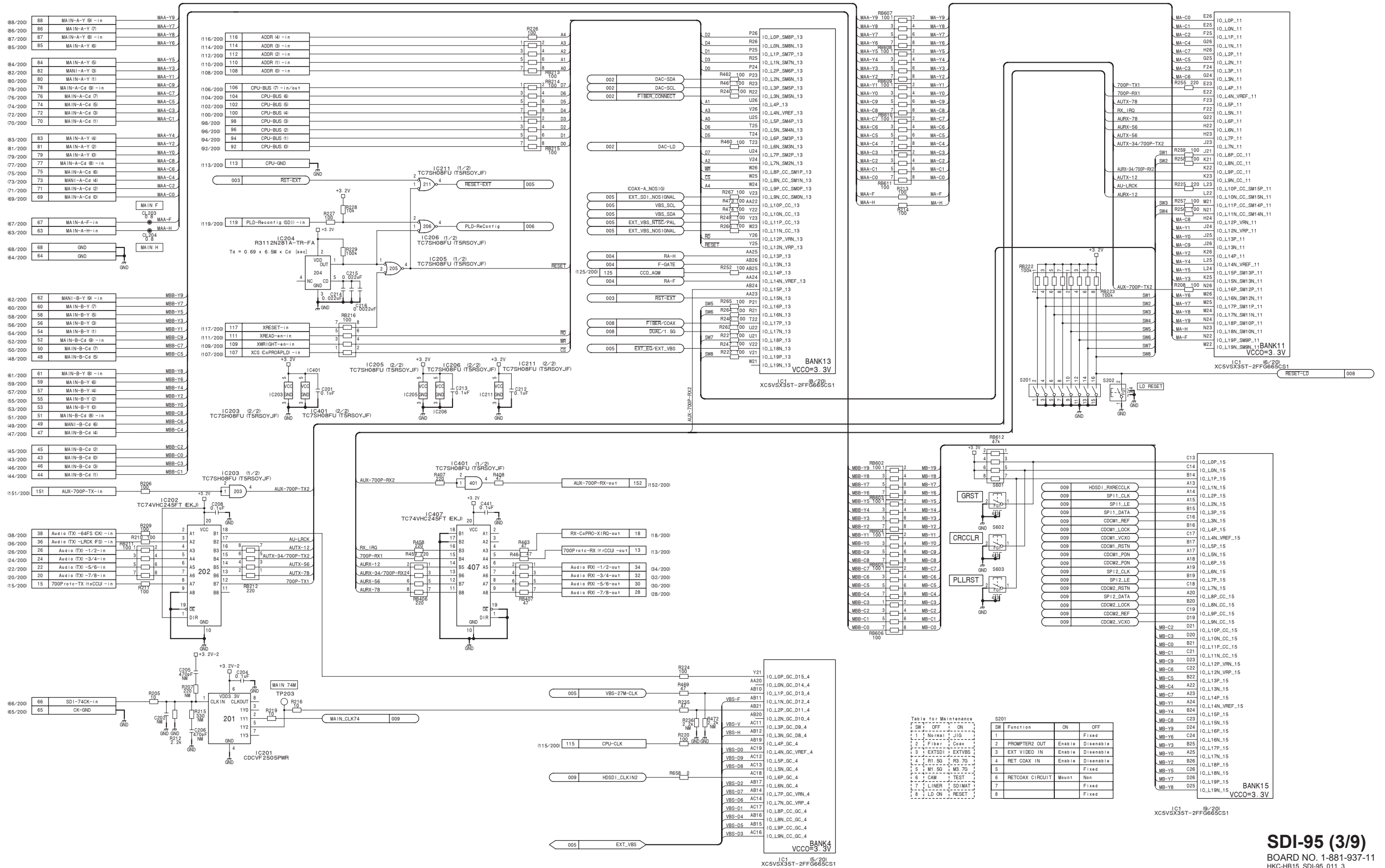
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6-2

6-2

HKC-HB10



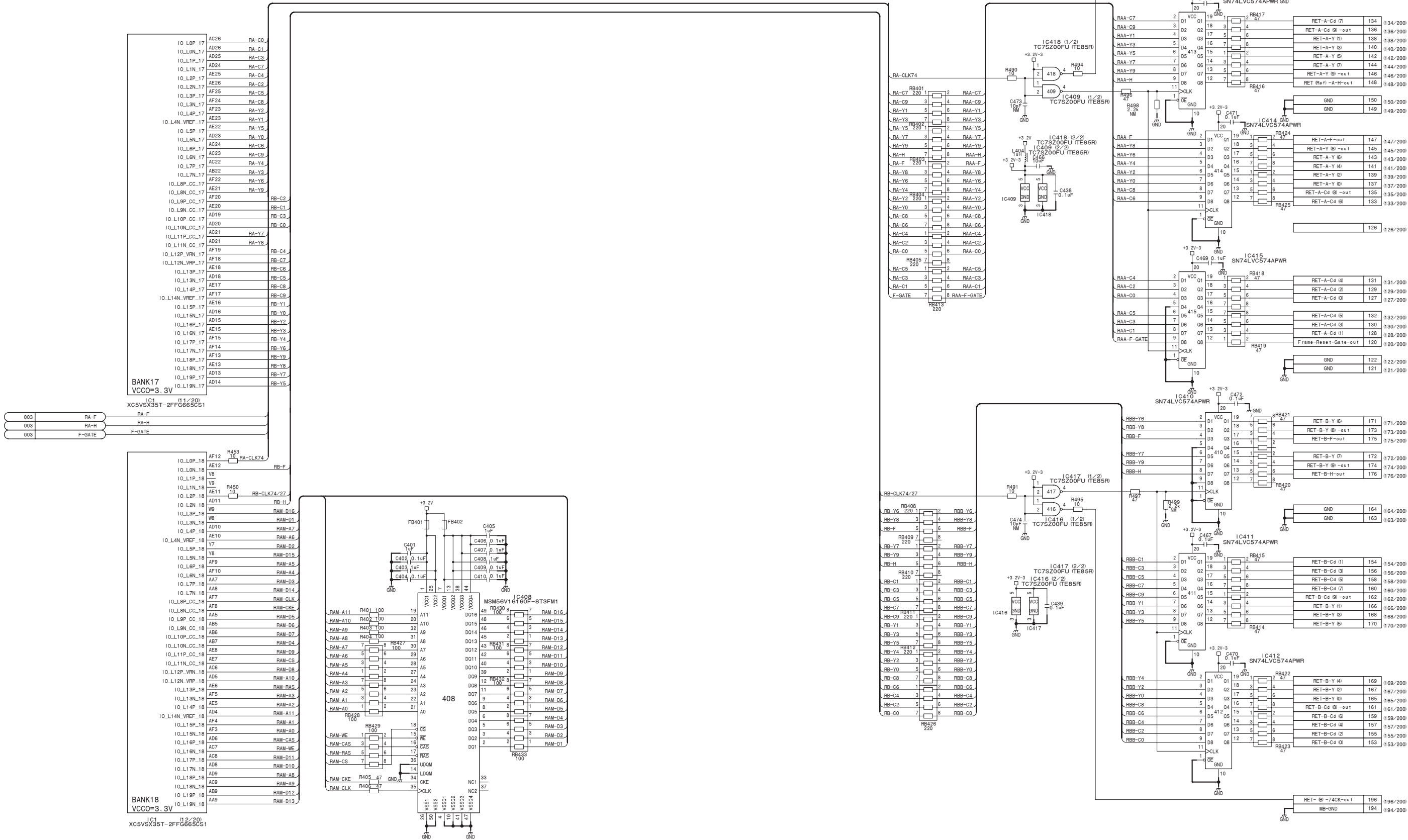
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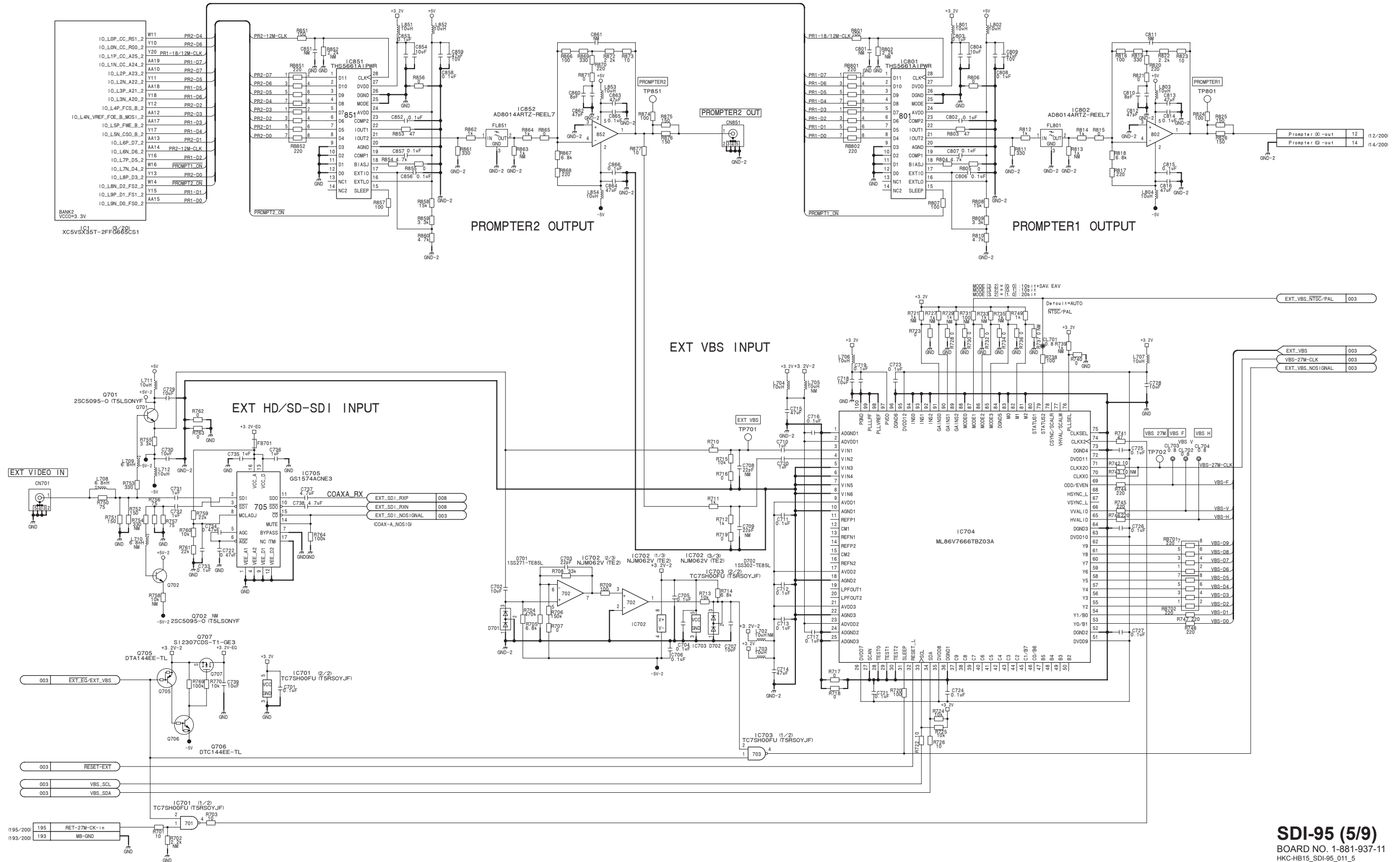
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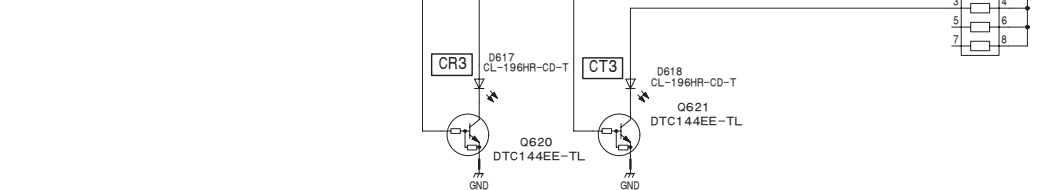
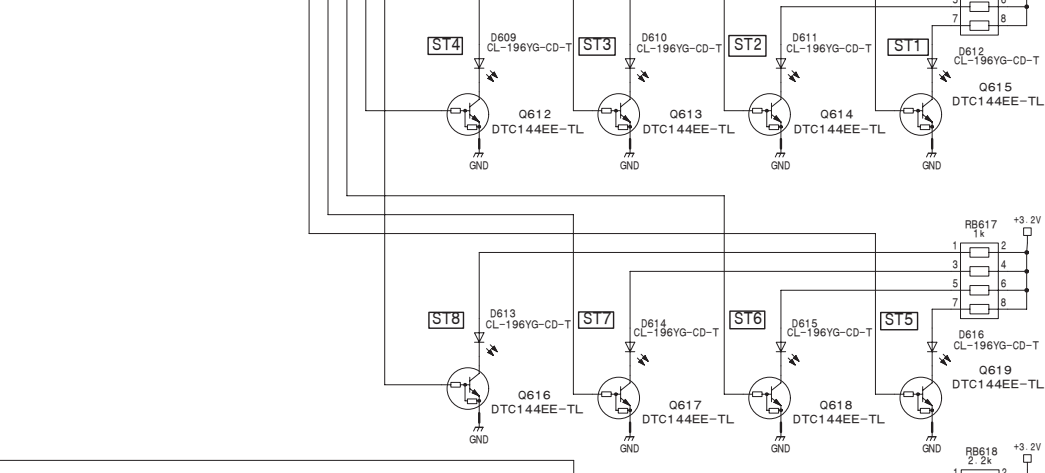
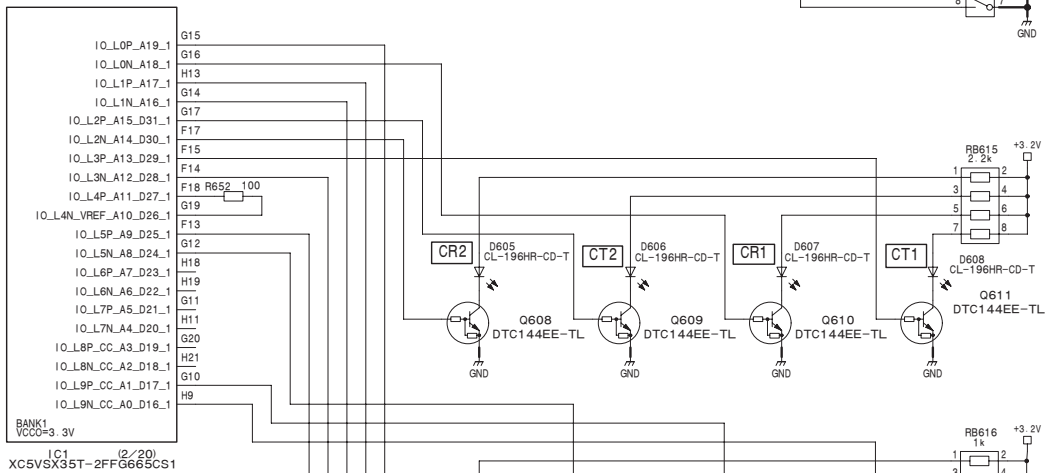
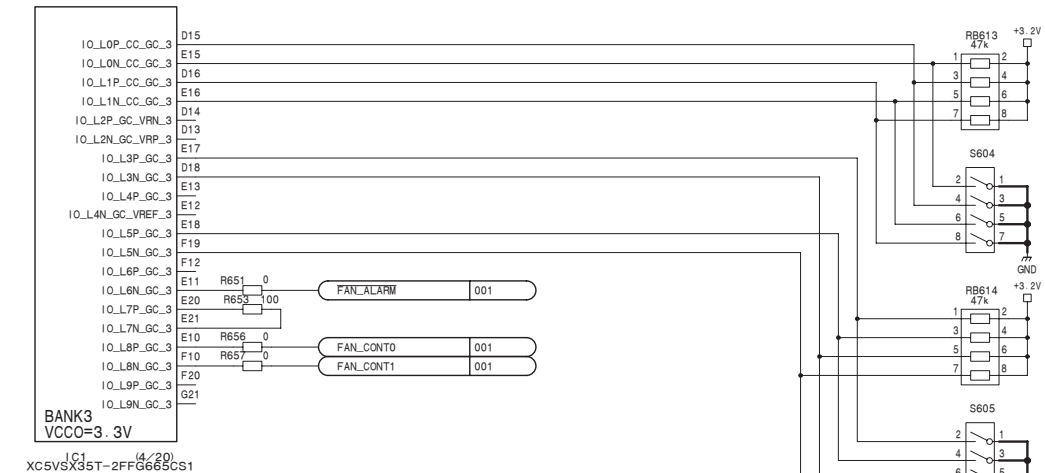
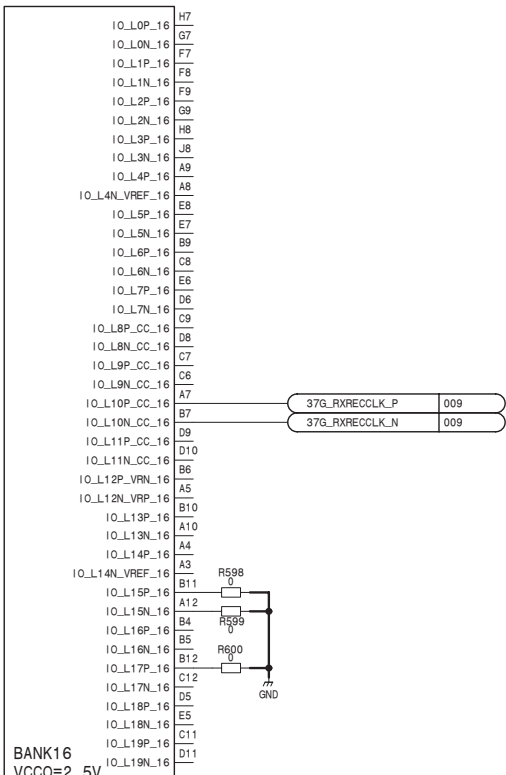
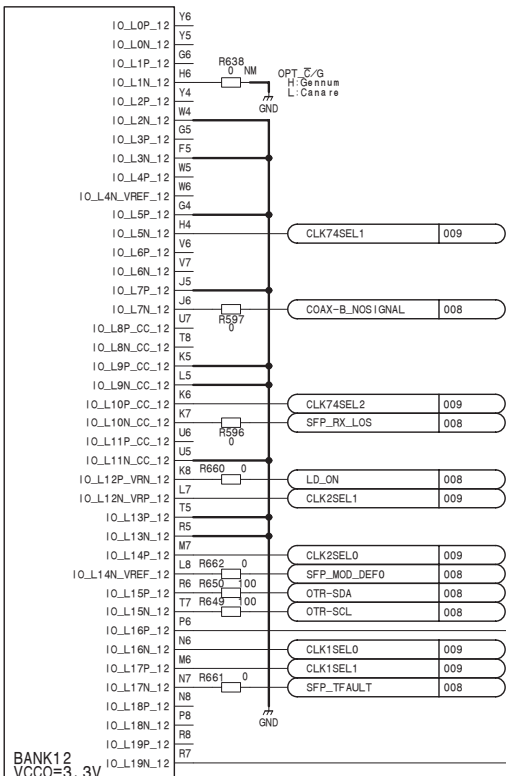
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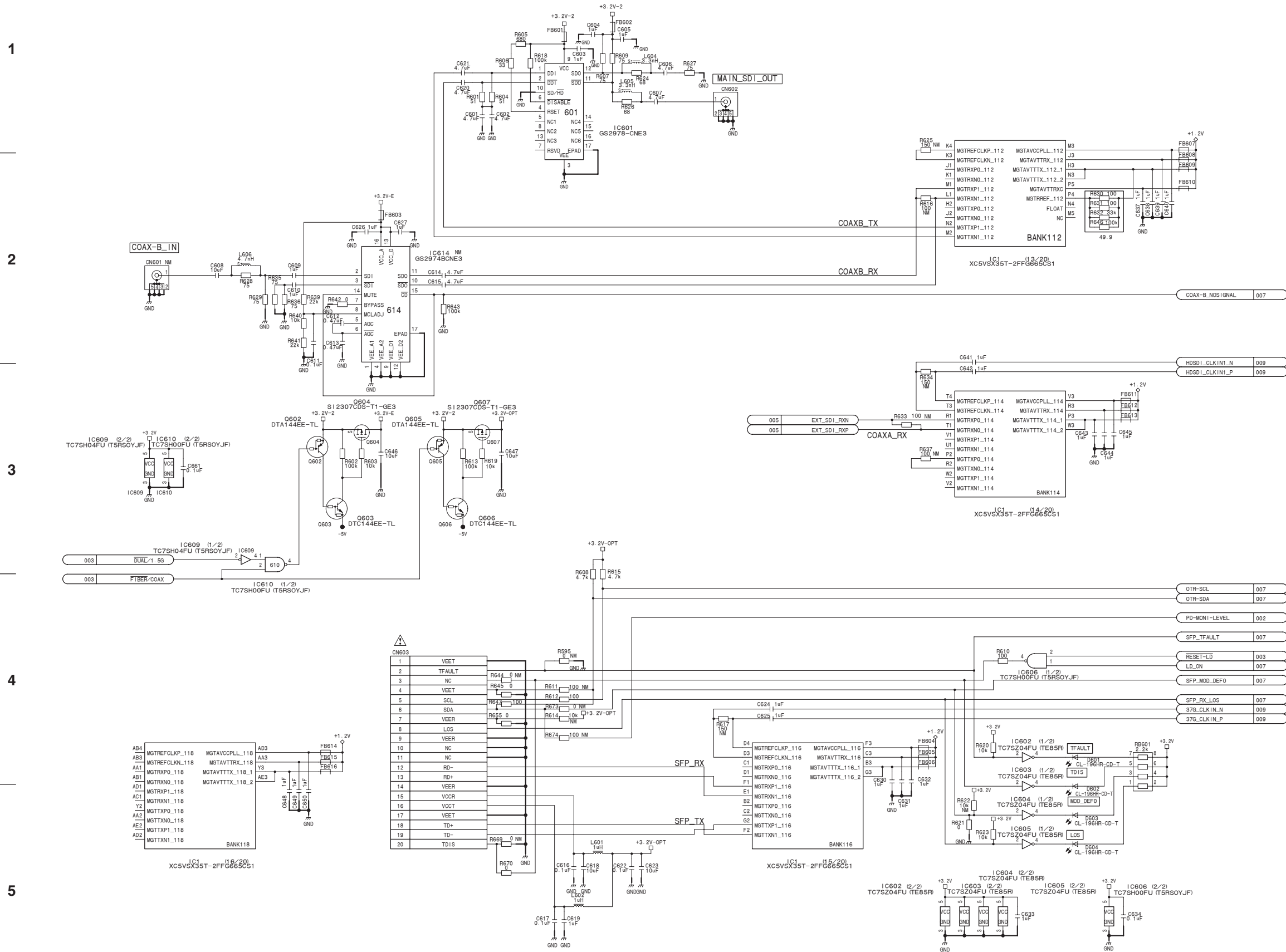
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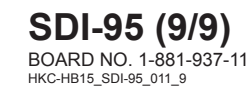
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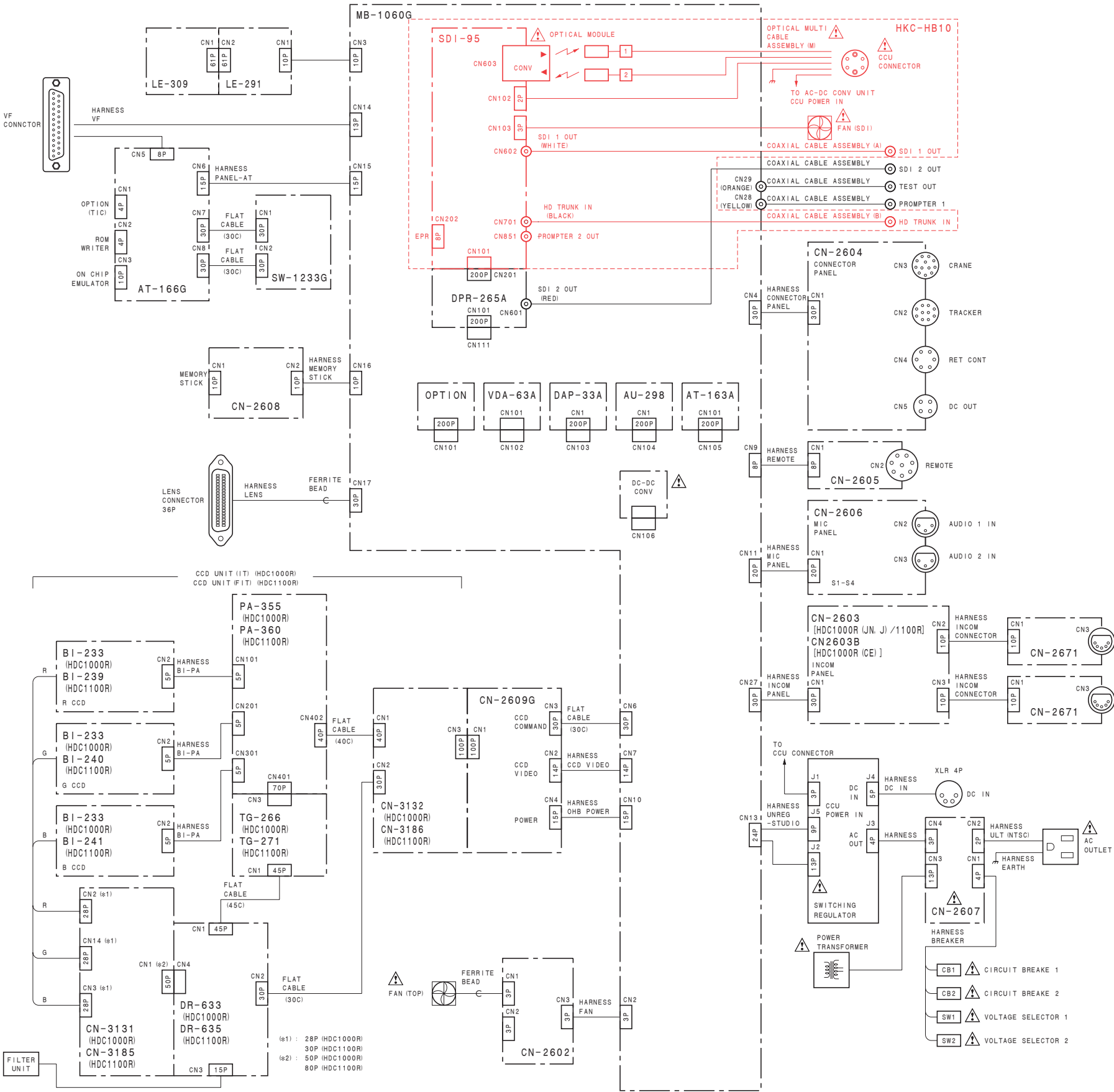


SUFFIX: -11

SUFFIX: -11

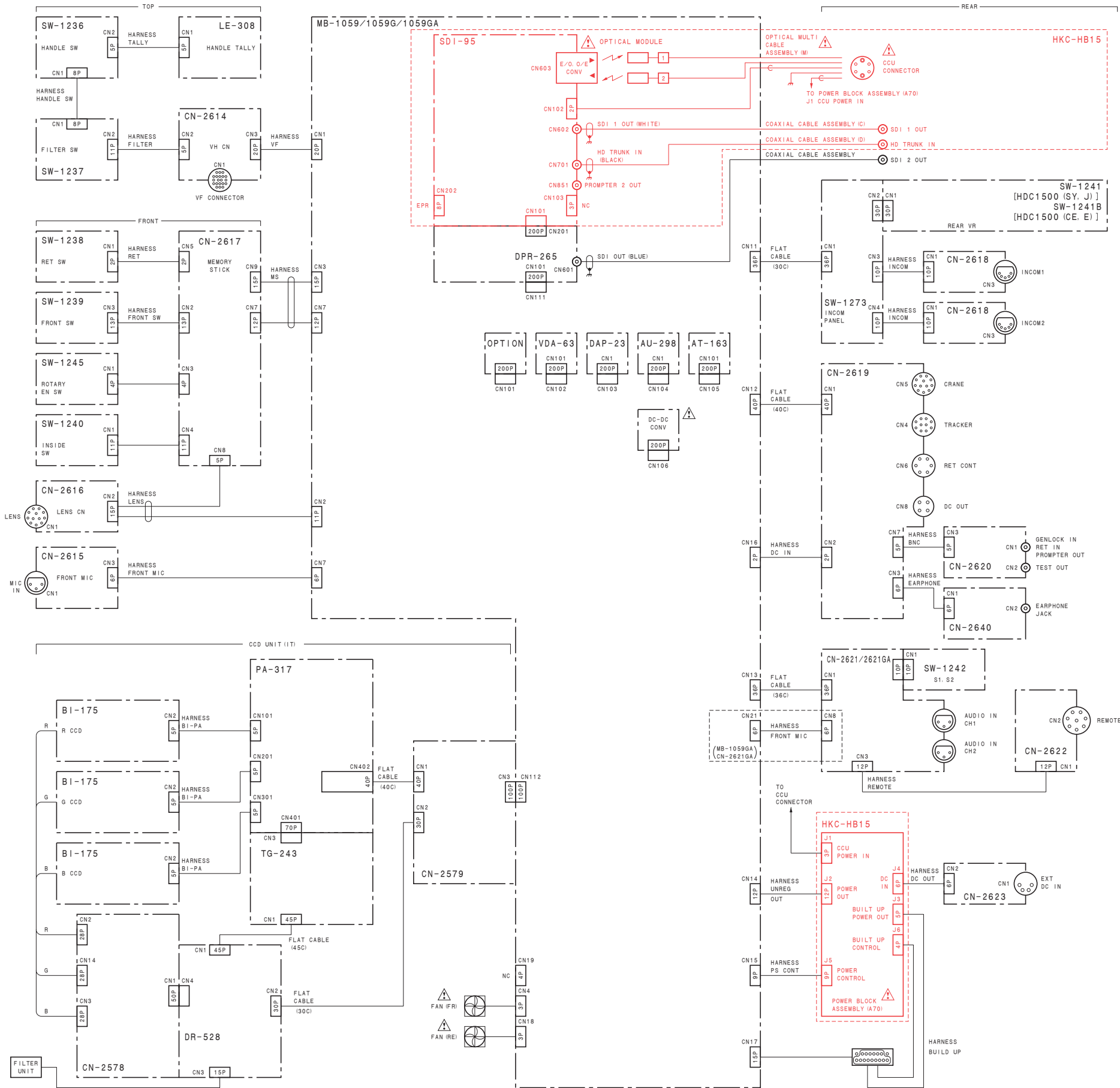






Frame Wiring
HDC1000R/1100R + HKC-HB10

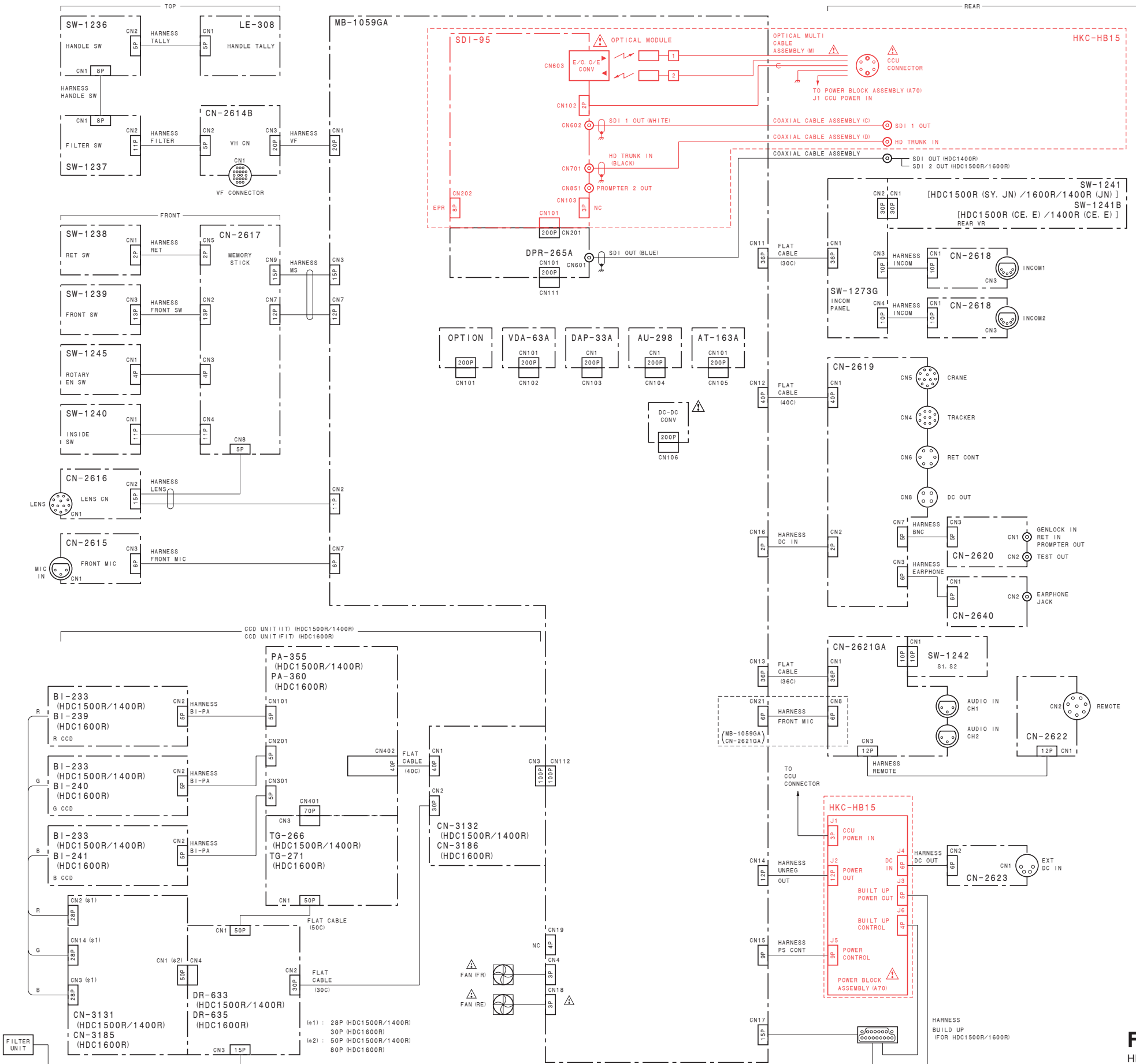
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6-12

6-12

Frame Wiring
HDC1500 + HKC-HB15



HKC-HB10

Frame Wiring
HDC1400R/1500R/1600R + HKC-HB15

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4

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6-13

6-13

A

B

C

D

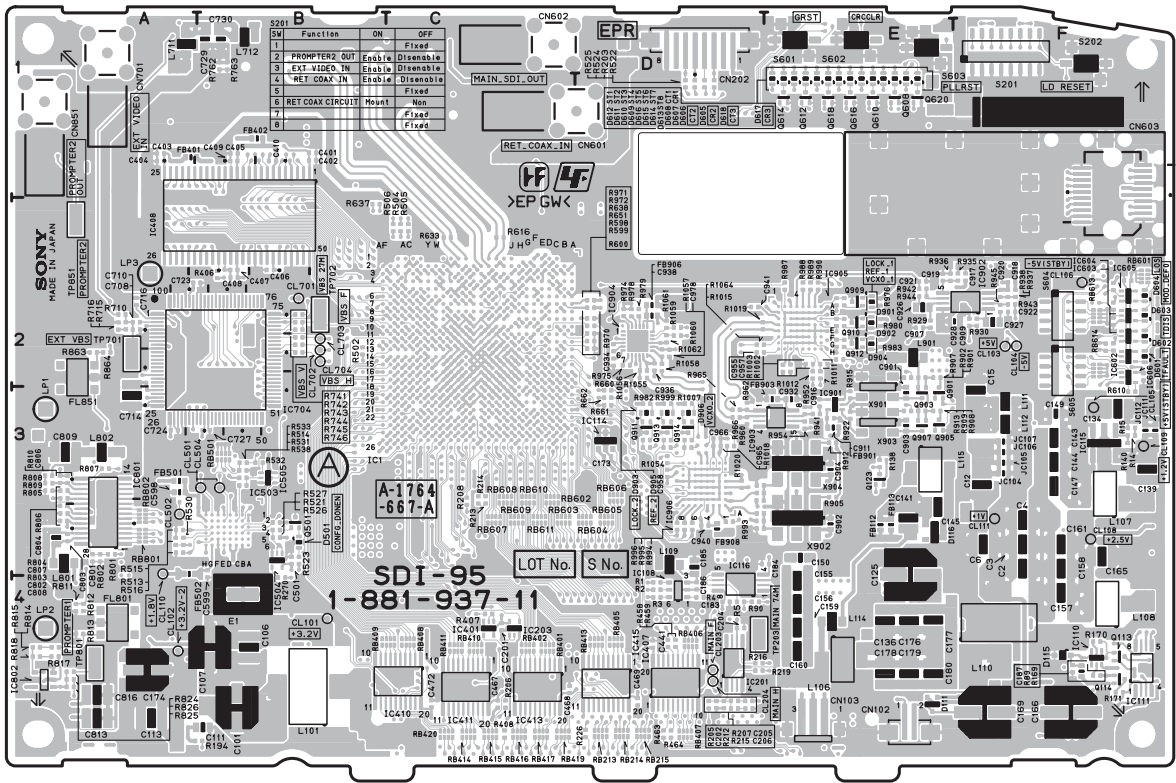
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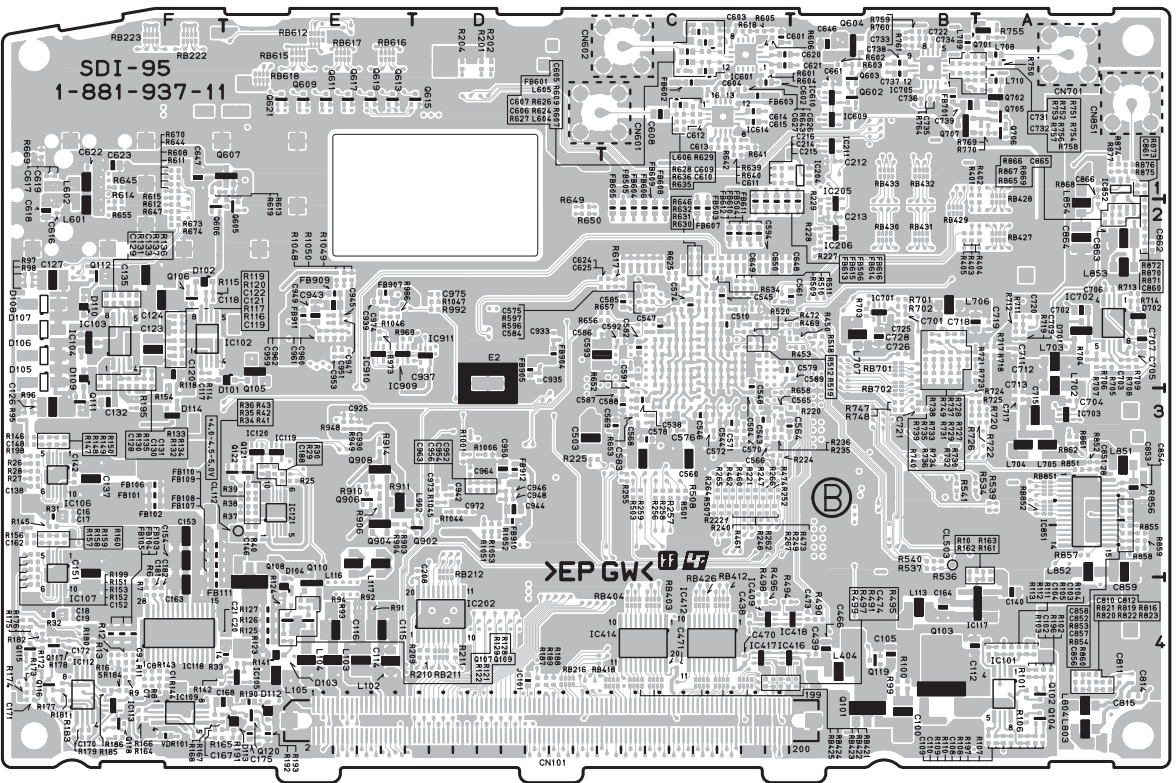
G

H

Section 7
Board Layouts



SDI-95 -A SIDE-
SUFFIX: -11



SDI-95 -B SIDE-
SUFFIX: -11

HKC-HB10
HKC-HB15 (SY) J, E
9-968-737-01

Sony Corporation

Printed in Japan
2010. 3 08
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