SONY

3G FIBER TRANSMISSION UNIT

HKCU-HB10
HKCU-HB15

3G SINGLE LINK INTERFACE UNIT

HKCU2005

HD CAMERA CONTROL UNIT
HDCU1000
HDCU1500

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ことがあります。
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，CCU 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。

・ HDCU1000/HDCU1500
　メンテナンスマニュアルおよびインストレーションマニュアル，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.

⚠WARNUNG

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

⚠AVERTISSEMENT

Ce manual 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.

For HKCU-HB10/HKCU-HB15

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 HKCU-HB10/HB15 and 3G Single Link Interface Unit HKCU2005.
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.

- **Operation Manual (Supplied with HKCU-HB10/HB15)**
  This manual is necessary for application and operation of this unit.
  Part number: 4-191-936-0X (Japanese)
  Part number: 4-191-937-0X (English)

- **Operation Manual (Supplied with HDCU1000/1500)**
  This manual is necessary for application and operation of HDCU1000/1500.
  Part number: 3-903-898-0X

- **Installation Manual (Available on request)**
  This manual describes the information regarding the installation of the unit and the information that premises the service based on components replacement of HDCU1000/1500.
  Part number: 9-968-207-0X

- **Maintenance Manual (Available on request)**
  This manual describes (service overview and the circuit overview, the main part replacements, electrical alignment, parts list, semiconductor pin assignments, block diagrams, schematic diagrams, board layouts.) required for parts-level service of HDCU1000/1500.
  Part number: 9-968-208-0X

- **“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. Overview of Installation

Components

This unit consists of the following components.

HKCU-HB10
- Rear panel assembly
  (Optical multi cable assembly, CN-2672GA board, SDP-16 board)
- Harness (REMOTE)
- SDP-16 heat sink
- Heat transfer sheet
- Conductive cushion
- Labels

HKCU-HB15
- Rear panel assembly
  (Optical multi cable assembly, SDP-16 board)
- Heatsink
- Heat transfer sheet
- Conductive cushion
- Labels

HKCU2005
- DRX-8 board
- HIF-57 board
- Indication label (DRX-B)

Applicable model

HKCU-HB10

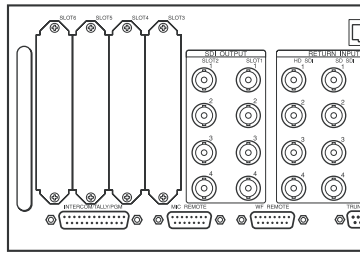
HDCU1000
- 14001 and Higher (HDCU1000: UC)
- 41001 and Higher (HDCU1000: CE)
- 50001 and Higher (HDCU1000: E3)
- 60001 and Higher (HDCU1000: E2)

Note

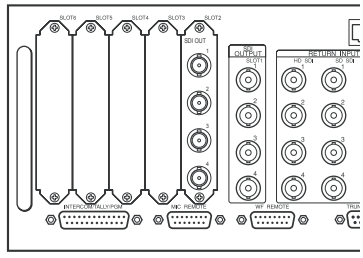
This procedure is not available for the following serial numbers.
- 10001 to 13999 (HDCU1000: UC)
- 40001 to 40999 (HDCU1000: CE)

Note

Uninstallable serial numbers
- 10001 to 13999 (UC)
- 400001 to 409999 (CE)



Installable serial numbers
- 14001 and Higher (UC)
- 410001 and Higher (CE)



HKCU-HB15

HDCU1500

HKCU2005
- HDCU1000 (HKCU-HB10)
  - 14001 and Higher (HDCU1000: UC)
  - 410001 and Higher (HDCU1000: CE)

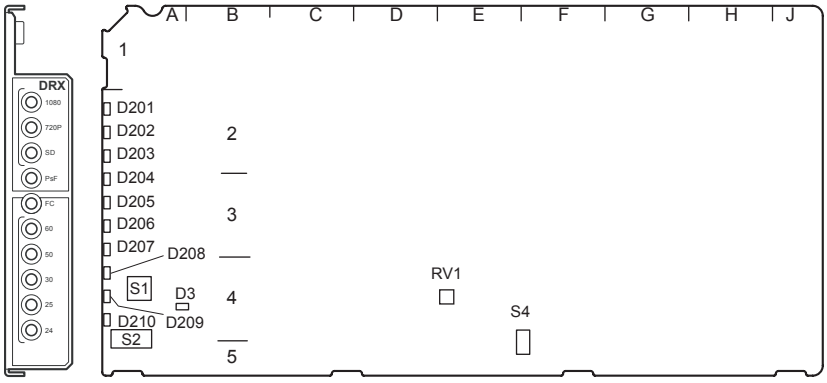
- HDCU1500 (HKCU-HB15)

Note

This unit can be installed only to HDCU1000 with HKCU-HB10 installed or HDCU1500 with HKCU-HB15 installed.

1-2. Functions of Onboard Indicators/Switches/Potentiometers

DRX-5 board



DRX-5 (Side A)

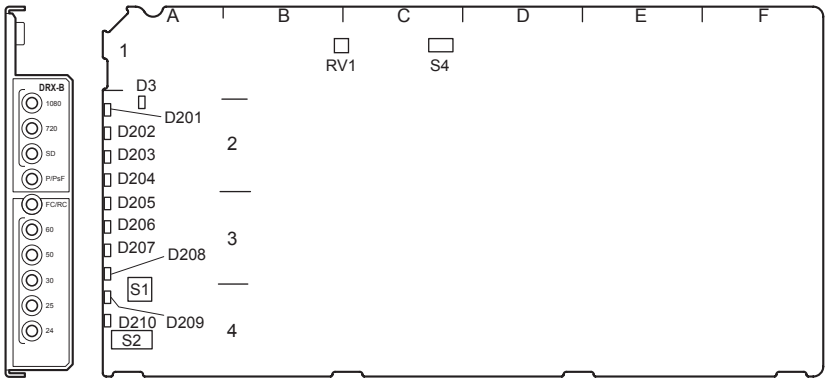
Ref.No.	Name	Function	Factory default setting
D3	POWER	(Green) Illuminates when the power to the DRX board has correctly started.	–
D201	1080	(Green) Illuminates when the Active-Line of the Main output is 1080-Format.*1	–
D202	720P	(Green) Illuminates when the Active-Line of the Main output is 720P-Format.*1	–
D203	SD	(Green) Illuminates when the Main output is SD-Format.*1	–
D204	PsF	(Orange) Illuminates when the Main output is Progressive video. *1	–
D205	FC	(Orange) Illuminates when the frame frequency converted signal is output from the Main output. *1	–
D206	60	(Green) Illuminates when the Main output is 1080-60i/59.94i or 720-60P/59.94P. *1	–
D207	50	(Green) Illuminates when the Main output is 1080-50i or 720-50P. *1	–
D208	30	(Green) Illuminates when the Main output is 1080-30PsF/29.97PsF. *1	–
D209	25	(Green) Illuminates when the Main output is 1080-25PsF. *1	–
D210	24	(Green) Illuminates when the Main output is 1080-24PsF/23.98PsF. *1	–
S1	MODE2	Not used	0
S2	MODE1		
	1 CLEAN	Turns on or off the character MIX function of SDI monitor output (3, 4). OFF: Normal SDI monitor output. ON: Keeps the characters and the markers of the SDI monitor output (3, 4) turned off (Clean). **Note** Settings are for each DRX board. This setting is invalid for the DRX board in slot 4. (Always Clean.)	OFF
	2 INTERLOC	Format interlock function of the SDI output (3, 4). OFF: Does not interlock the format of the SDI output (3, 4) to (1, 2). ON: Interlocks the format of the SDI output (3, 4) to (1, 2). **Note** Settings are for each DRX board This setting is invalid for the DRX board in slot 4. (Always format-interlocked.)	OFF
	3 to 8	Not used	OFF
S4	MONI	Sets the signal output to the character (SD analog) output. The character signal from each DRX board is connected directly to the character output, so only one character signal must be turned on, and the character signals from the rest of the DRX boards must be turned off. When HKCU-HB10 or HKCU-HB15 is installed, set S4 only on the DRX board in slot 2 to ON and set S4 on other DRX boards to OFF. *2 When DRX board is not mounted in slot 2, set S4 on the first DRX board to ON.	–
RV1	MONI LEV	Adjusts the output level of the character signal.	

*1: Blinks when the format setting is defective.

*2: **Note**

When neither HKCU-HB10 nor HKCU-HB15 is installed, set S4 on the first DRX board to ON and set S4 on other DRX boards to OFF.

DRX-8 board

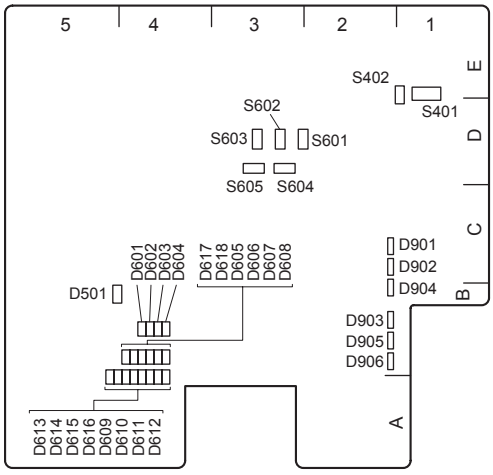


DRX-8 (Side A)

Ref.No.	Name	Function	Factory default setting
D3	POWER	(Green) Illuminates when the power to the DRX board has correctly started.	–
D201	1080	(Green) Illuminates when the Active-Line of the Main output is 1080-Format.*1	–
D202	720	(Green) Illuminates when the Active-Line of the Main output is 720-Format.*1	–
D203	SD	(Green) Illuminates when the Main output is SD-Format.*1	–
D204	P/PsF	(Orange) Illuminates when the Main output is Progressive video. *1	–
D205	FC/RC	(Orange) Illuminates when the frame frequency converted signal or the rate converted (1080 P- Format to 720 P- Format) signal is output from the Main output. *1	–
D206	60	(Green) Illuminates when the Main output is 1080-60P/59.94P, 1080-60i/59.94i or 720-60P/59.94P. *1	–
D207	50	(Green) Illuminates when the Main output is 1080-50P, 1080-50i or 720-50P. *1	–
D208	30	(Green) Illuminates when the Main output is 1080-30PsF/29.97PsF. *1	–
D209	25	(Green) Illuminates when the Main output is 1080-25PsF. *1	–
D210	24	(Green) Illuminates when the Main output is 1080-24PsF/23.98PsF. *1	–
S1	MODE2	Not used	0
S2	MODE1		
	1 CLEAN	Turns on or off the character MIX function of SDI monitor output (3, 4). OFF: Normal SDI monitor output. ON: Keeps the characters and the markers of the SDI monitor output (3, 4) turned off (Clean).	OFF
	2 INTERLOC	Format interlock function of the SDI output (3, 4). OFF: Does not interlock the format of the SDI output (3, 4) to (1, 2). ON: Interlocks the format of the SDI output (3, 4) to (1, 2).	OFF
	3	Changes the SDI output to payload ID compatible with SMPTE352-2009. OFF: Outputs the picture rate of the payload ID at the field rate in the interlace scan mode (same setting as existing models). ON: Changes the picture rate of the payload ID to the frame rate and outputs it (compatible with SMPTE352-2009).	OFF
	4 to 8	Not used	OFF
S4	MONI	Sets the signal output to the character (SD analog) output.	ON
RV1	MONI LEV	Adjusts the output level of the character signal.	

*1: Blinks when the format setting is defective.

SDP-16 board



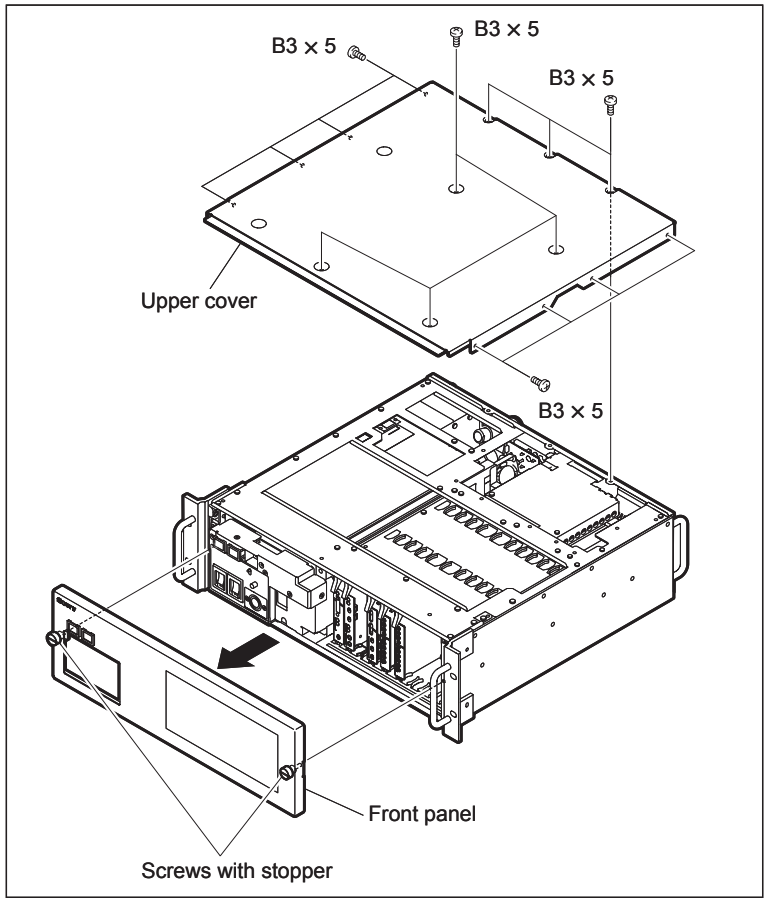
SDP-16 (Side A)

Ref.No.	Name	Function	Factory default setting
S401	1 to 8	Factory use only	OFF (ALL)
S402	LD RESET	Factory use only	OFF
S601	GRST	Factory use only	OFF
S602	CRCCLR	Factory use only	OFF
S603	PLLRST	Factory use only	OFF
S604	1 to 4	Factory use only	OFF (ALL)
S605	1 to 4	Factory use only	OFF (ALL)

1-3. Installation Procedures

1-3-1. Installing the HKCU-HB10

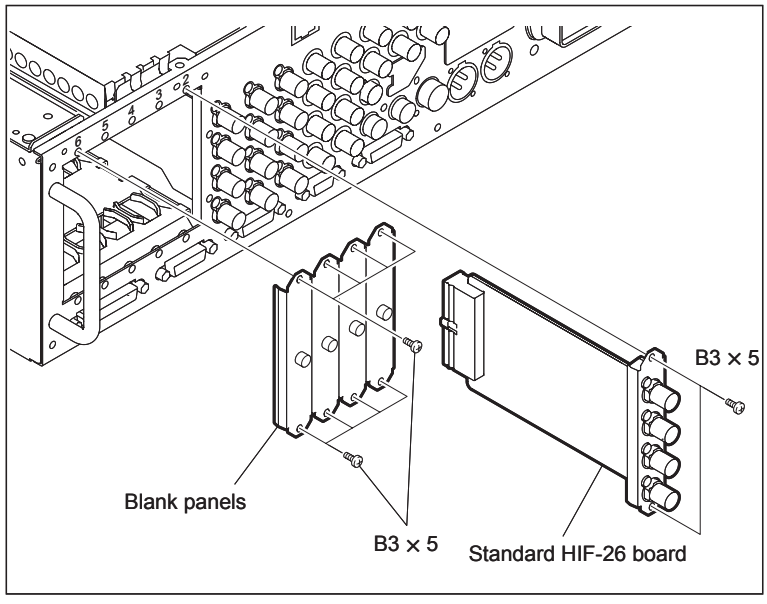
1. Sufficiently loosen the two screws with stopper to detach the front panel in the arrow direction.
2. Remove the 15 screws to detach the upper cover.



3. Remove the 10 screws and remove the standard HIF-26 board and all the blank panels.

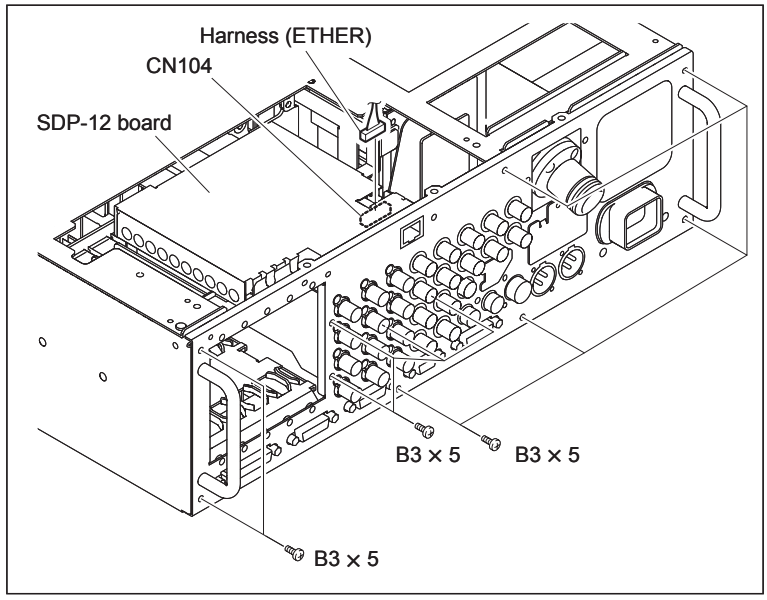
Note

When the option board is mounted in slot 3 or a subsequent slot, remove it.

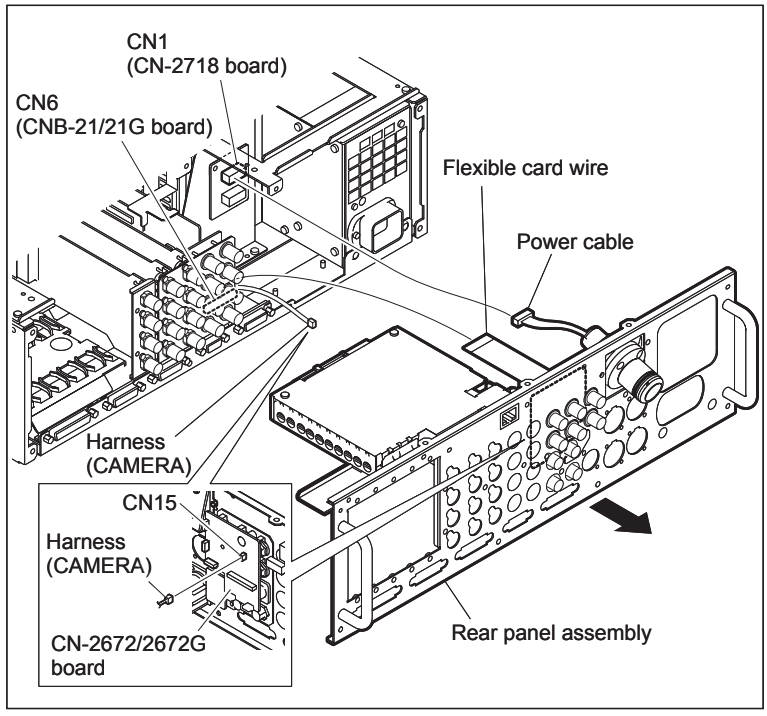


4. Remove the 11 screws of the rear panel.
   Note
   Remove the screws with ⇒ marks on the rear panel.

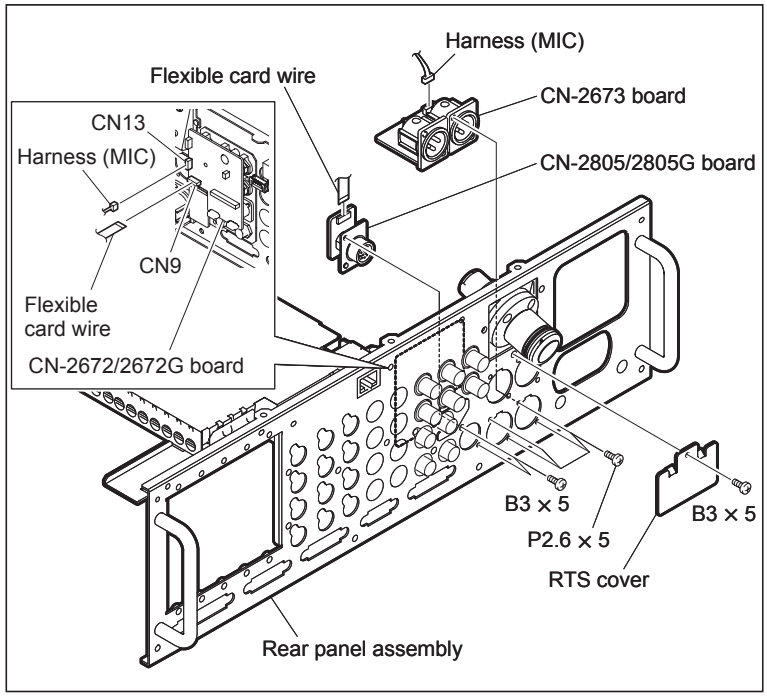
5. Disconnct the harness from the connector CN104 on the SDP-12 board.



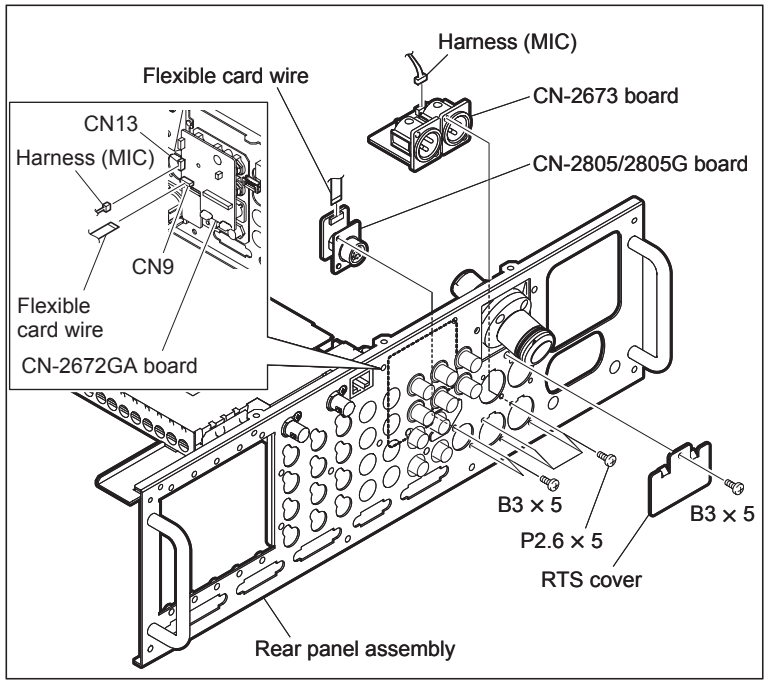
6. Disconnect the power cable of the optical multi cable assembly from the connector CN1 on the CN-2718 board.
7. Detach the rear panel assembly in the arrow direction.
8. Disconnct the harness from the connector CN15 on the CN-2672/2672G board.
9. Disconnct the flexible card wire from the connector CN6 on the CNB-21/21G board.



10. Disconnct the flexible card wire and the harness from the connectors CN9 and CN13 on the CN-2672/2672G board.
11. Remove the four screws and remove the CN-2673 board from the rear panel assembly.
12. Remove the two screws and remove the CN-2805/2805G board from the rear panel assembly.
13. Remove the screw to detach the RTS cover from the rear panel assembly.

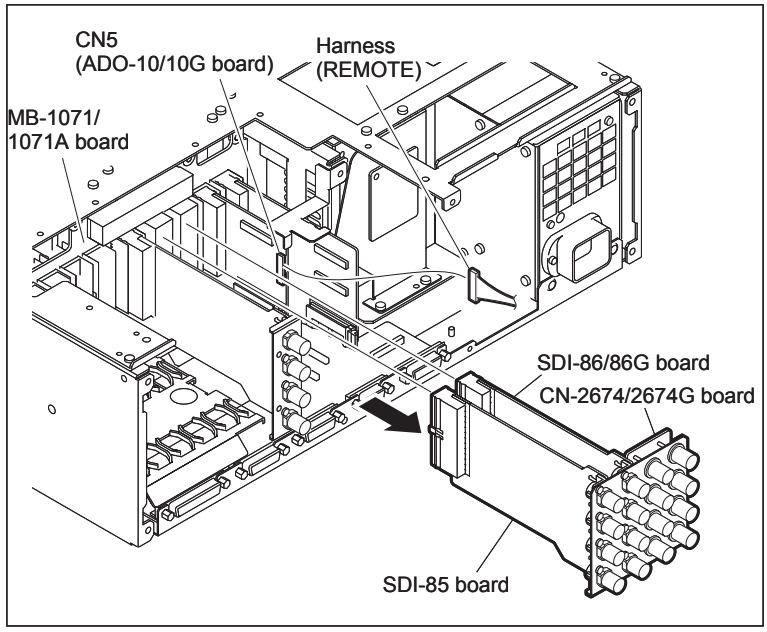


14. Install the RTS cover, CN-2805/2805G board, and CN-2673 board to the rear panel assembly of HKCU-HB10 by reversing steps 11 to 13.
15. Connect the harness and the flexible card wire that were disconnected in step 10 to the connectors CN13 and CN9 on the CN-2672GA board.

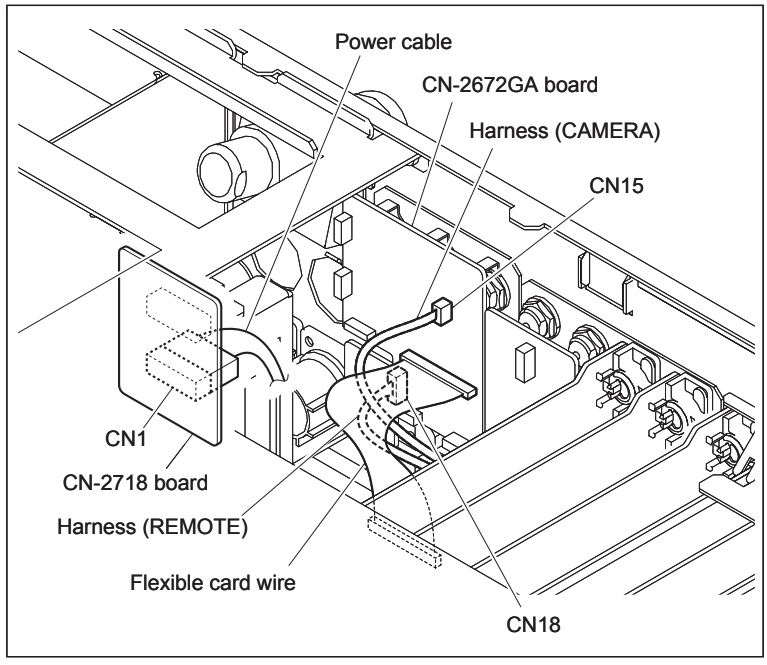


16. Pull the SDI-85 board, SDI-86/86G board, and CN-2674/2674G board out of the MB-1071/1071A board in the arrow direction.
17. Connect the supplied harness (REMOTE) to the connector CN5 on the ADO-10/10G board.
    - Serial number 15001 and Higher (UC)
    - Serial number 420002 and Higher (CE)

18. Install all the boards that were removed in step 16.



19. Connect the harness (REMOTE) to the connector CN18 on the CN-2672GA board.
20. Connect the flexible card wire, harness, and power cable by reversing steps 6 to 9 and arrange them as shown in the figure.



21. Connect the harness that was disconnected in step 5 to the connector CN104 on the SDP-16 board, and connect the SDP-16 board to the MB-1071/1071A board.
22. Install the rear panel with 11 screws.

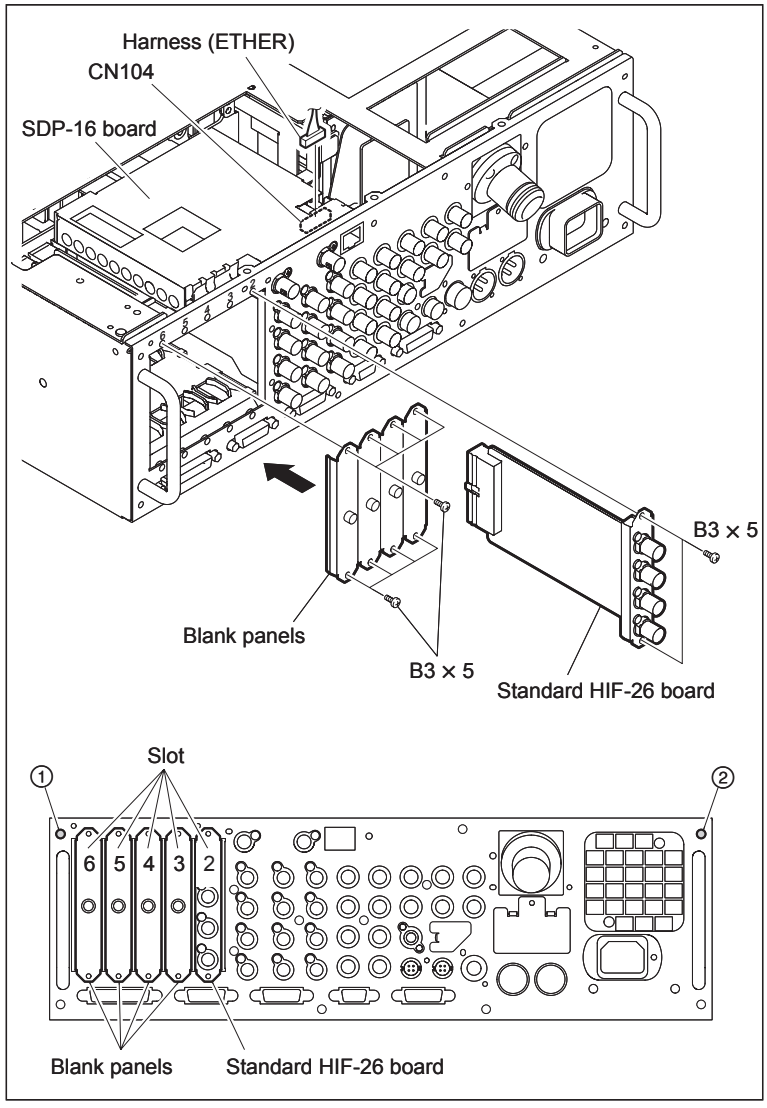
Notes

- When installing the rear panel, tighten the two screws first in the order shown in the figure.
- Install the rear panel so that the optical fiber cables are not stressed.

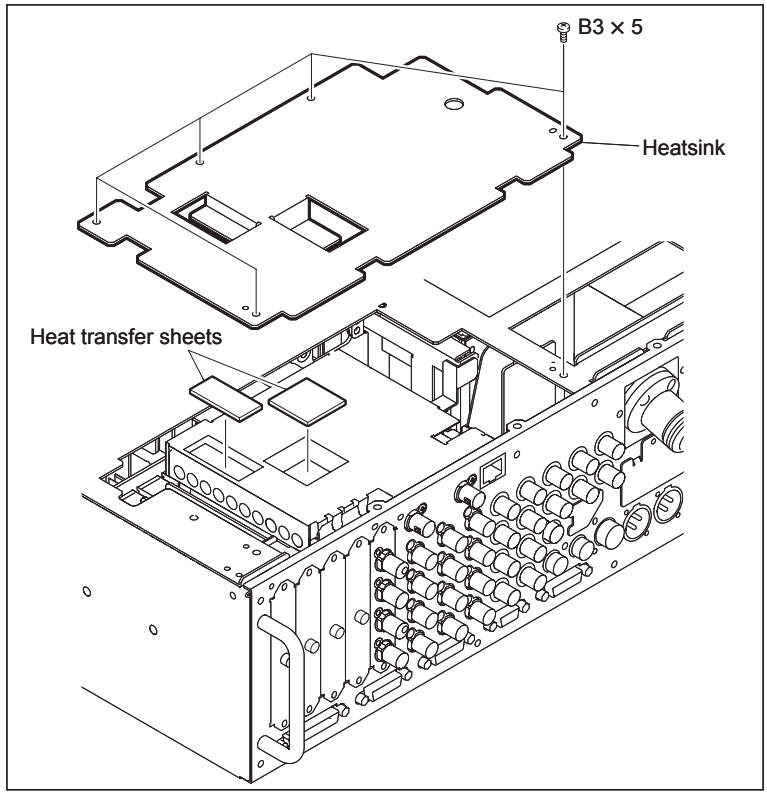
23. Install the standard HIF-26 board and the blank panel into its original slot.

Notes

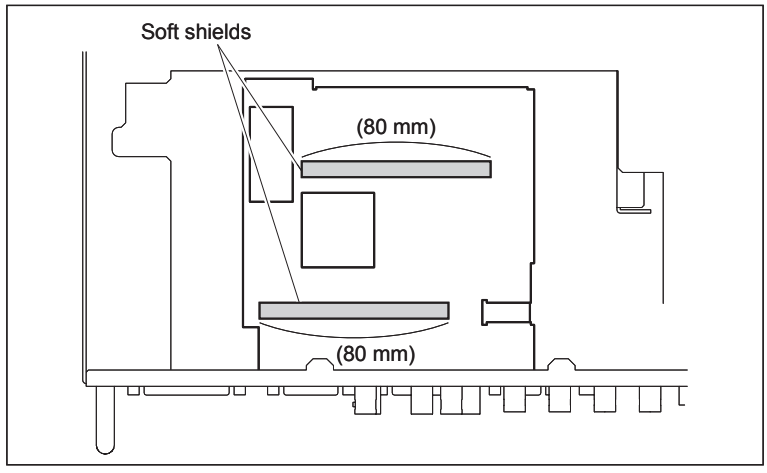
- When the option board is mounted in slot 3 or a subsequent slot, remove the option board and reinstall it into its original slot.
- Be sure to install blank panels to open slots.



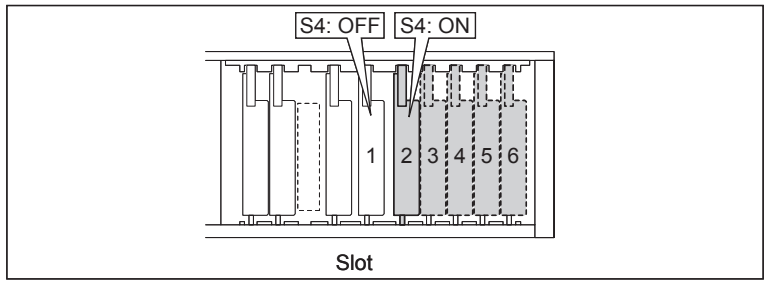
24. Attach two heat transfer sheets to the SDP-16 board with its darker-color side facing up.
25. Attach the heatsink with five screws.



26. Attach the supplied two Soft Shields at the location shown in the figure.

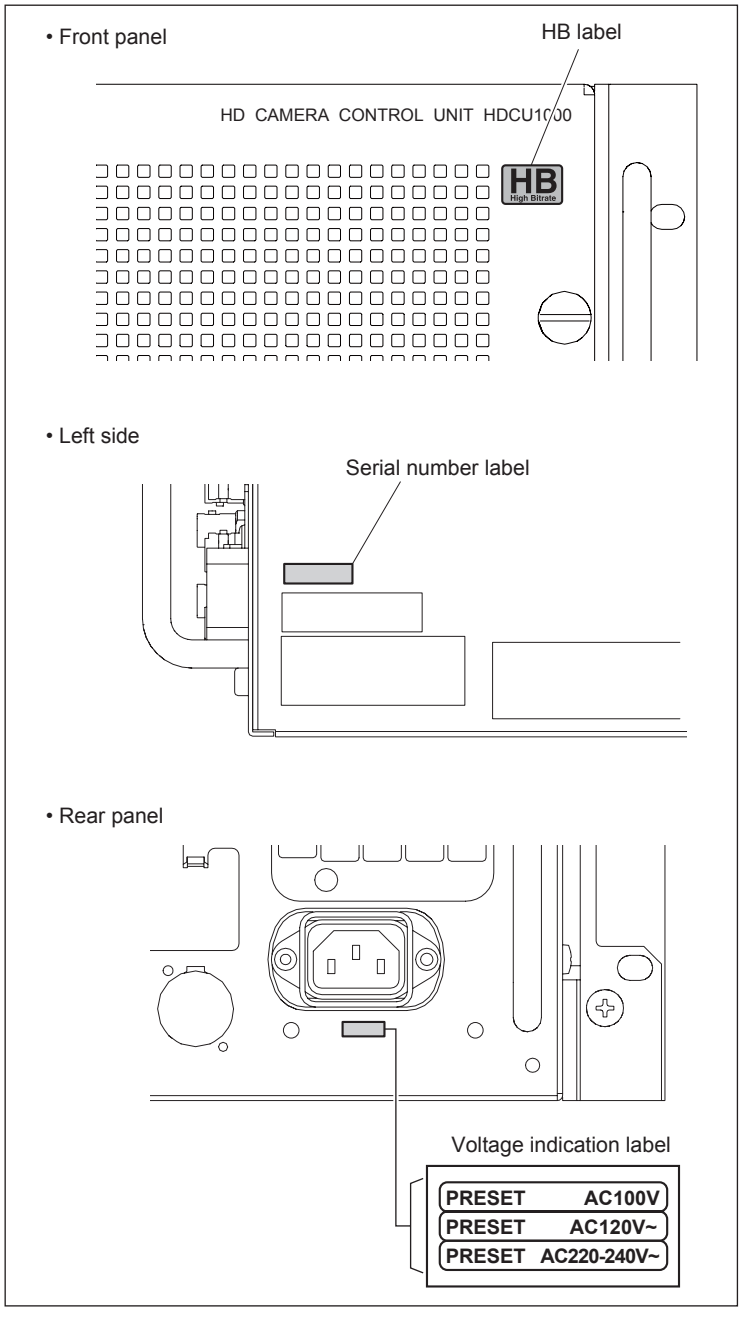


27. Set the switch S4 (MONI) on the DRX-5 board in slot 1 on the front side to OFF. (Refer to Section 1-2.)
28. Set the switch S4 (MONI) on the DRX-5 board in slot 2 on the front side to ON. (Refer to Section 1-2.)
29. Install the upper cover and the front panel by reversing steps 1 to 2.



Attaching labels

Attach a HB label, serial number label, and Voltage indication label, at the locations shown in the figure.

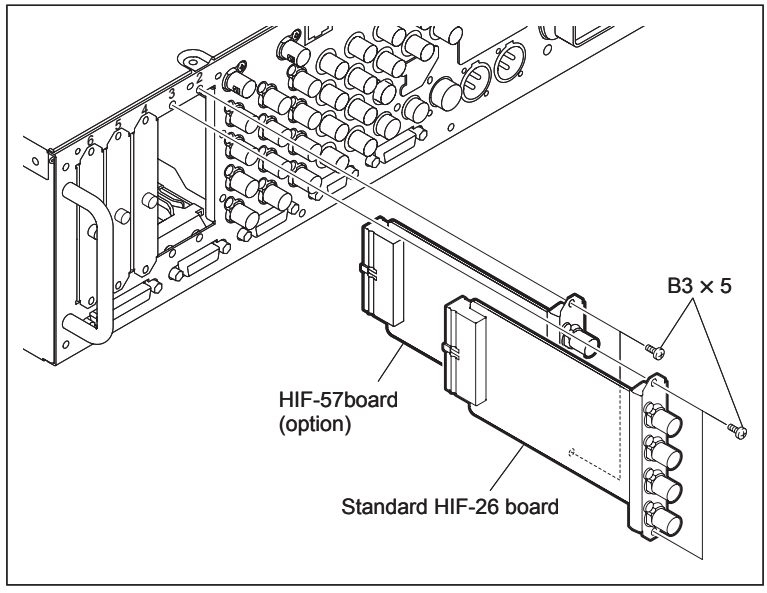


1-3-2. Installing HKCU2005 (to HDCU1000 with HKCU-HB10 Installed)

Installing the HIF-57 board (option)

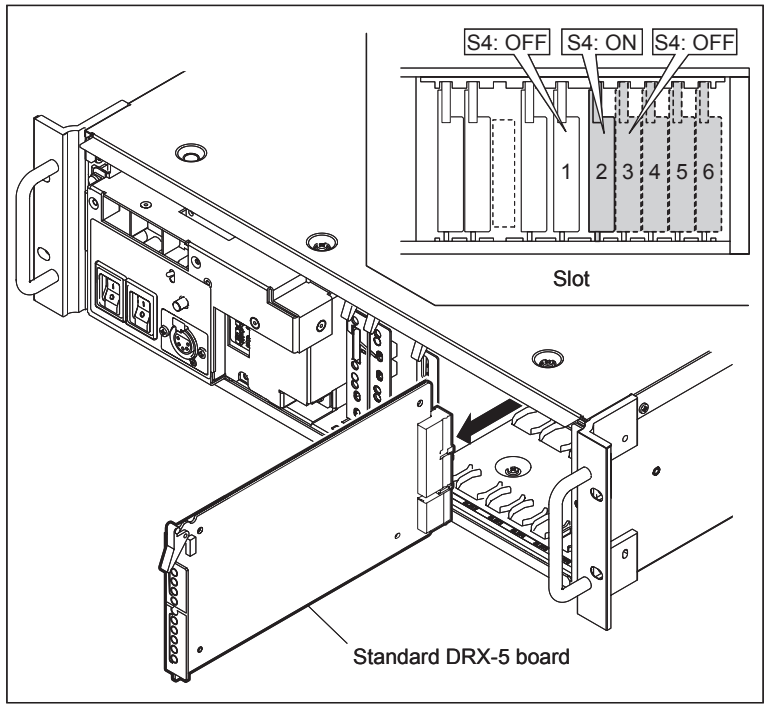
1. Remove the standard HIF-26 board of slot 2 and the blank panel of slot 3 (Refer to Section 1-3-1.).
   Note
   Keep the removed blank panel.

2. Insert the HIF-57 board into slot 2 and the standard HIF-26 board into slot 3, and secure them with four screws.
   Notes
   - When another option board is mounted in slot 3 or a subsequent slot, reinstall it according to the output signal configuration required by the customer.
   - For combination of option boards, refer to "2-4. Option Board Installation Position."
   - Be sure to install blank panels to open slots.



Installing the DRX-8 board (option)

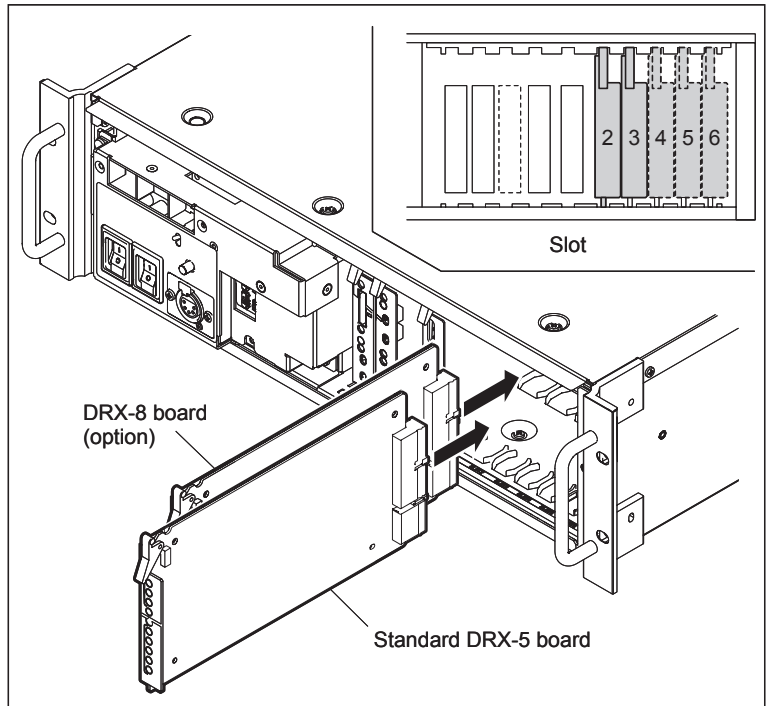
1. Remove the front panel. (Refer to Section 1-3-1.)
2. Remove the standard DRX-5 board from slot 2, set the switch 4 (MONI) to OFF, and then insert the DRX-5 board into slot 3.
3. Set the switch S4 (MONI) on the standard DRX-5 board in slot 1 to OFF. (Refer to Section 1-2.)
4. Check that the switch S4 (MONI) on the DRX-8 board is set to ON. (Refer to Section 1-2.)



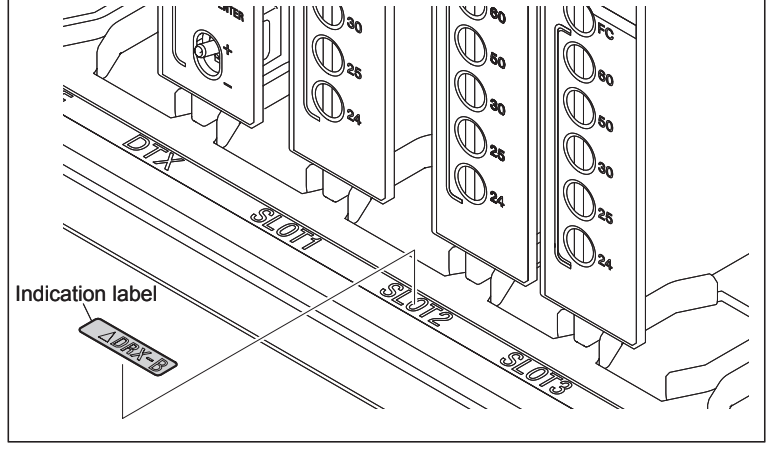
5. Insert the DRX-8 board into slot 2.
6. Attach an indication label onto the print "SLOT2."

Notes

- When another option board is mounted in slot 3 or a subsequent slot, reinstall it according to the output signal configuration required by the customer.
- For combination of option boards, refer to "2-4. Option Board Installation Position."

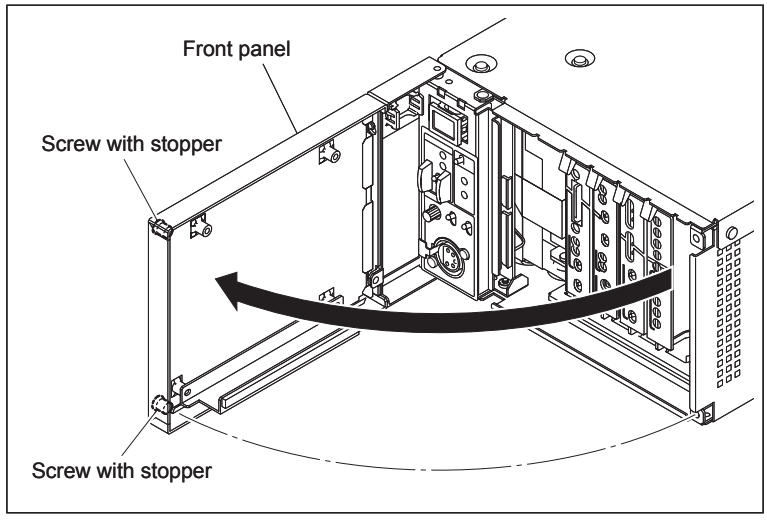


7. Install the front panel and secure it with two screws with stopper.

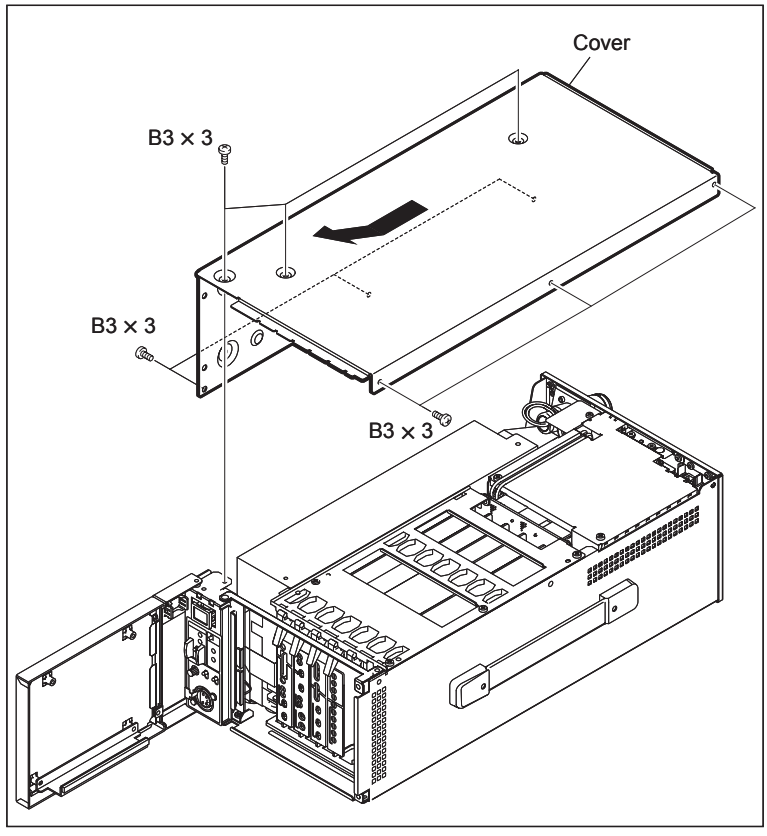


1-3-3. Installing the HKCU-HB15

1. Loosen the two screws with stopper and open the front panel in the arrow direction.



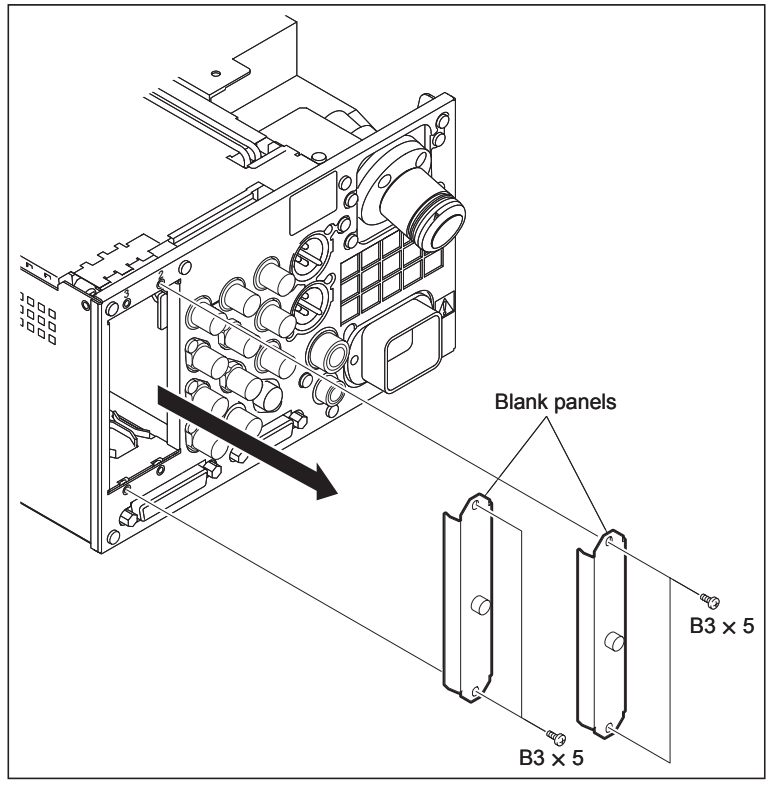
2. Remove the nine screws and detach the cover in the arrow direction.



3. Remove the four screws and remove all the blank panels.

Note

When the option board is mounted in slot 2 or a subsequent slot, remove the option board.

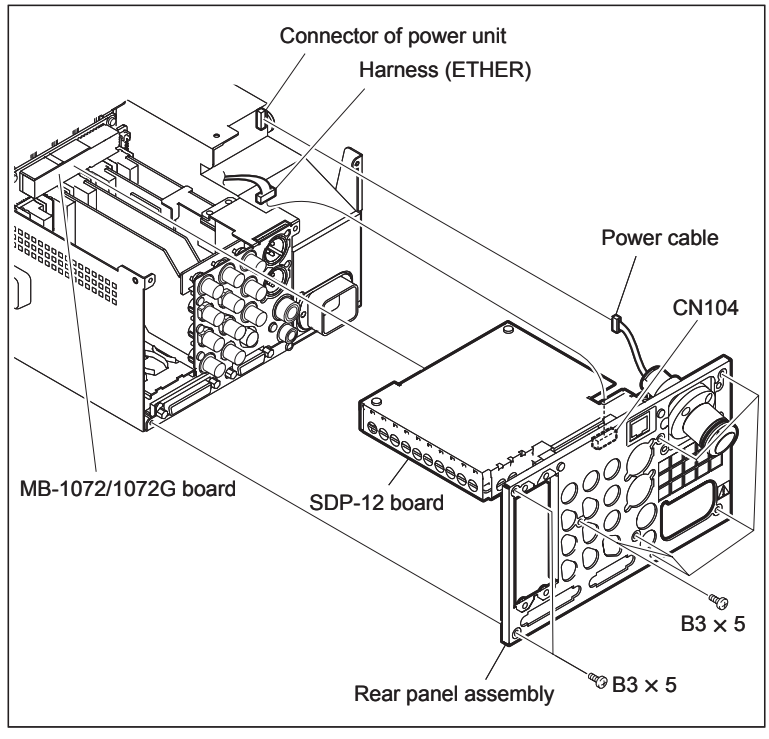


4. Remove the eight screws of the rear panel.

Note

Remove the screws with ⇒ marks on the rear panel.

5. Disconnct the power cable of the optical multi cable assembly from the power supply unit.
6. Disconnct the harness from the connector CN104 on the SDP-12 board.
7. Remove the SDP-12 board from the MB-1072/1072G board, to detach the rear panel assembly.



8. Connect the SDP-16 board of HKCU-HB15 to the MB-1072/1072G board.
9. Connect the harness that was disconnected in step 6 to the connector CN104 on the SDP-16 board.
10. Connect the power cable of the optical multi cable assembly to the power supply unit.

11. Install the rear panel with eight screws.

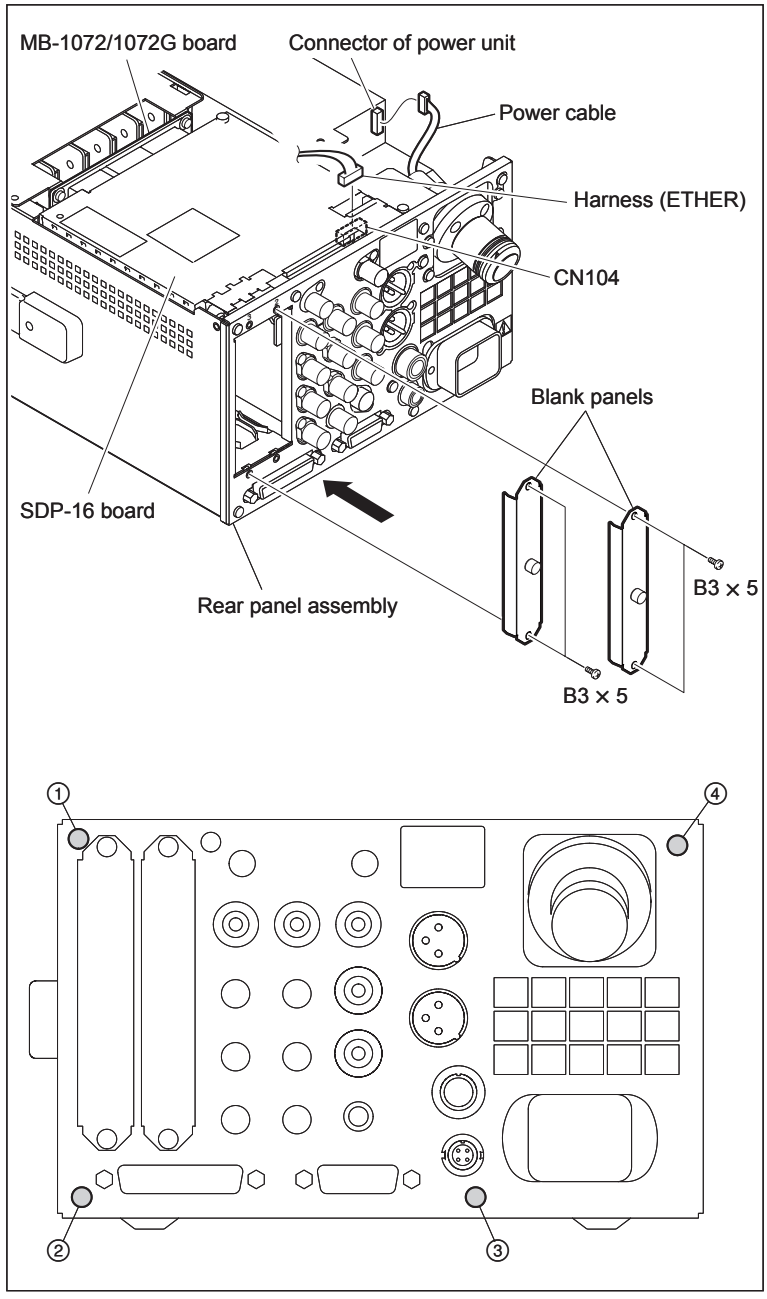
Notes

- When installing the rear panel, tighten the four screws first in the order shown in the figure.
- Install the rear panel so that the optical fiber cables are not stressed.

12. Attach all the blank panels with four screws.

Notes

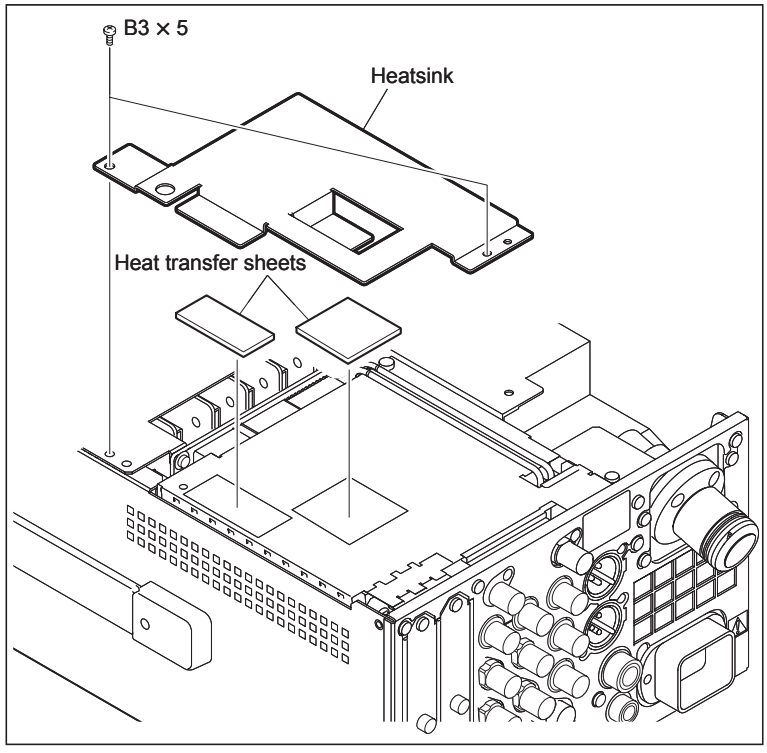
- When the option board is mounted in slot 2 or a subsequent slot, remove the option board and reinstall it to its original slot.
- After all option boards and blank panels have been installed, secure them with screws.
- Be sure to install blank panels to open slots.



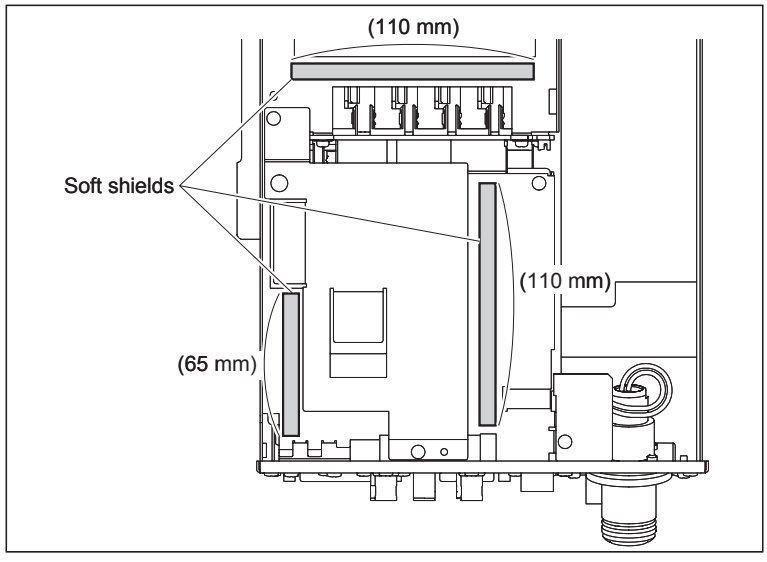
13. Attach two heat transfer sheets to the SDP-16 board with its darker-color side facing up.
14. Attach the heatsink with two screws.

Note

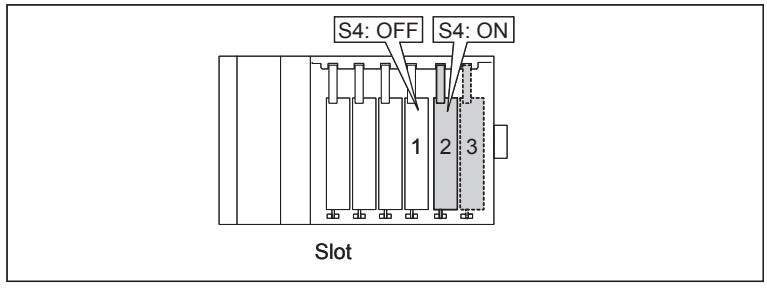
Remove the screw securing the chassis and then secure the chassis together with the heatsink with two screws.



15. Attach the supplied three Soft Shields at the location shown in the figure.



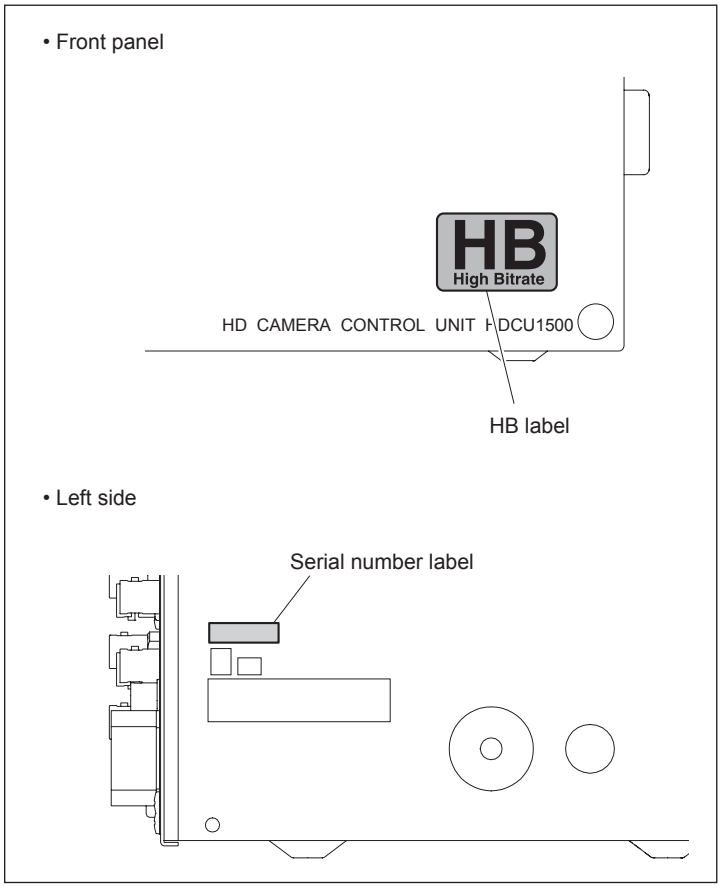
16. When the optional DRX-5 board is mounted in slot 2 or a subsequent slot, make the following settings.
    (1) Set the switch S4 (MONI) on the standard DRX-5 board in slot 1 on the front side to OFF. (Refer to Section 1-2.)
    (2) Set the switch S4 (MONI) on the optional DRX-5 board in slot 2 on the front side to ON. (Refer to Section 1-2.)



17. Install the cover and the front panel by reversing steps 1 to 2.

Attaching labels

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

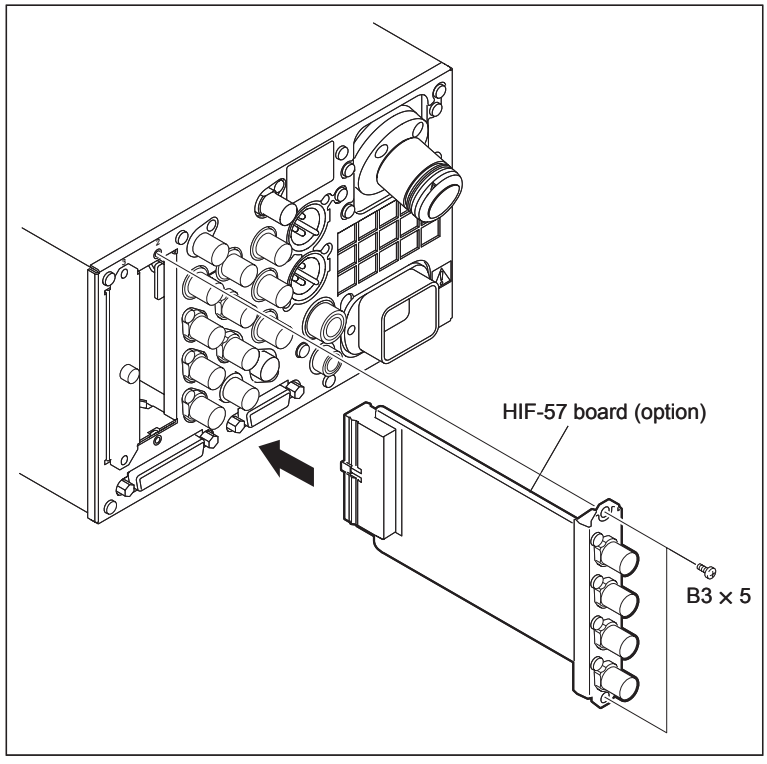


1-3-4. Installing HKCU2005 (to HDCU1500 with HKCU-HB15 Installed)

Installing the HIF-57 board (option)

1. Remove the blank panel of slot 2.
   (Refer to Section 1-3-3.)
   Note
   Keep the removed blank panel.

2. Insert the HIF-57 board into slot 2 and secure it with two screws.
   Notes
   - When another option board is mounted in slot 2 or a subsequent slot, reinstall it according to the output signal configuration required by the customer.
   - For combination of option boards, refer to "2-4. Option Board Installation Position."
   - After all option boards and blank panels have been installed, secure them with screws.
   - Be sure to install blank panels to open slots.

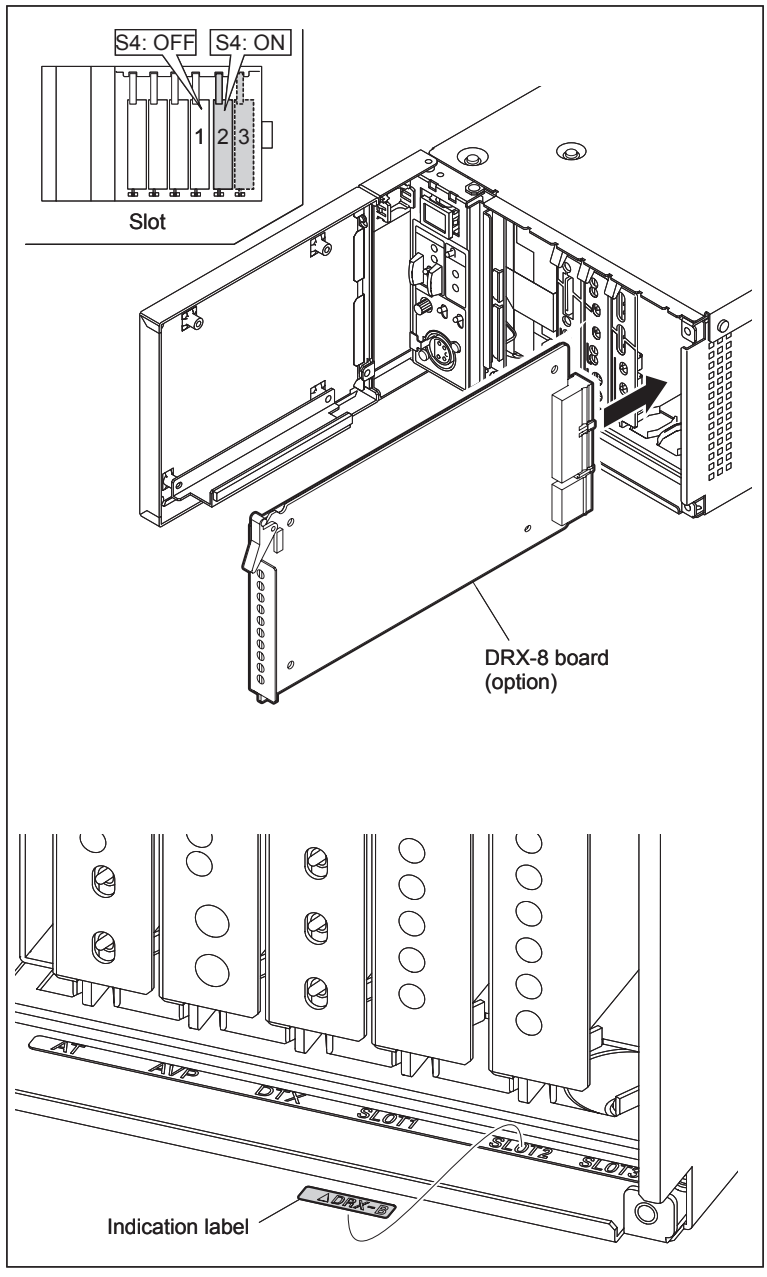


Installing the DRX-8 board (option)

1. Loosen the two screws with stopper and open the front panel in the arrow direction. (Refer to Section 1-3-3.)
2. Set the switch S4 (MONI) on the standard DRX-5 board in slot 1 to OFF. (Refer to Section 1-2.)
3. Check that the switch S4 (MONI) on the DRX-8 board is set to ON. (Refer to Section 1-2.)
4. Insert the DRX-8 board into slot 2.
5. Attach an indication label onto the print "SLOT2."

Notes

- When another option board is mounted in slot 2 or a subsequent slot, reinstall it according to the output signal configuration required by the customer.
- For combination of option boards, refer to "2-4. Option Board Installation Position."



6. Close the front panel and secure it with two screws with stopper.

1-4. Actions to be taken after installing this kit

Perform the following after this kit is installed.

- Upgrade the software version.

  Note

  For more information, contact your local Sony Sales Office/Service Center.

- After the software is upgraded, change the TRANSMIT setting from HD-SDI to AUTO on the C07 <PROMPT/TRUNK> page of the CCU CONFIGURATION menu. (Refer to Section 4-4.)
- Upgrade the PLDs on the following boards. (Refer to Section 2-5.)
  - AT-167 board
  - VP-6 board
  - DTX-5 board
  - DRX-5 board
- Change the transmission format and the format setting for each output pin according to the output signal configuration required by the customer.

Section 2
Service Overview

2-1. Connectors and Cables

2-1-1. Connector Input/Output Signals

HKCU-HB10/HB15

CAMERA connector (optical/electrical connector)

VIDEO: $Y/P_B/P_R$
3.7125 Gbps/3.7088 Gbps/1.485 Gbps /1.4835 Gbps serial
RET VIDEO: $Y/P_B/P_R$
3.7125 Gbps/3.7088 Gbps/1.485 Gbps /1.4835 Gbps serial
INCOM: 2ch
MIC: 2ch
DIGITAL AUDIO (AES/EBU)
CAMERA COMMAND
PROMPTER: 2ch (HKCU-HB10) , 1ch (HKCU-HB15)

HD PROMPTER IN

BNC type
SMPTE 292 M, 1.485 Gbps/1.4835 Gbps
BTA-S004 compliant

HD TRUNK OUT

BNC type
SMPTE 292 M, 0.8 V p-p, 75 Ω, 1.485 Gbps/1.4835 Gbps
BTA-S004 compliant

HKCU-HB10 only

REFERENCE

BNC type
±0.3 V, tri-level sync, 75 Ω or 0.286 V p-p, Black burst signal, 75 Ω

SYNC

BNC type
±0.3 V, tri-level sync, 75 Ω
0.3 V p-p, SD SYNC, 75 Ω selectable

CHARACTER

BNC type
1.0 V p-p, 75 Ω

AES/EBU

BNC type
AES/EBU format

HKCU2005

SDI OUT (1-4)

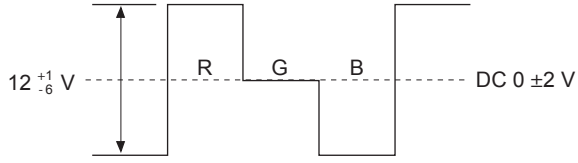
BNC type
SMPTE 424 M, 0.8 V p-p, 75 Ω, 2.970 Gbps/2.967 Gbps
BTA-S004 compliant
or
SMPTE 292 M, SMPTE 372 M, 0.8 V p-p, 75 Ω, 1.485 Gbps/1.4835 Gbps
BTA-S004 compliant

WF MODE 1/2 (4P, Female) (HKCU-HB10 only)

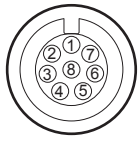
- EXT VIEW -

No.	Signal	Specifications
1	SEQ CTRL OUT (G)	OPEN COLLECTOR + (PNP)/– (NPN) (Selectable with S411/AT board)
2	SEQ CTRL OUT (X)	
3	STAIR CASE OUT (X)	Stair Case signal *1
4	STAIR CASE OUT (G)	GND for STAIR CASE

*1 : Stair Case signal



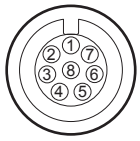
RCP/CNU (8P, Female) (HKCU-HB10 only)



- EXT VIEW -

No.	Signal	Specifications
1	TX (+)	SERIAL DATA OUT
2	TX (–)	
3	RX (+)	SERIAL DATA IN
4	RX (–)	
5	TX GND	GND for TX
6	POWER (+) OUT	RCP POWER, +30 V
7	POWER (–) OUT	GND for POWER
8	VIDEO (X)	75 Ω, 1.0 V p-p
	CHASSIS GND	CHASSIS GND

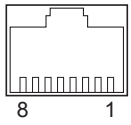
AUX REMOTE (8P, Female) (HKCU-HB10 only)



- EXT VIEW -

No.	Signal	Specifications
1	TX (+)	SERIAL DATA OUT
2	TX (–)	
3	RX (+)	SERIAL DATA IN
4	RX (–)	
5	TX GND	GND for TX
6	POWER (+) OUT	RCP POWER, +30 V
7	POWER (–) OUT	GND for POWER
8	SPARE	
	CHASSIS GND	CHASSIS GND

LAN (8P, RJ-45, 10Base-T/100Base-TX)

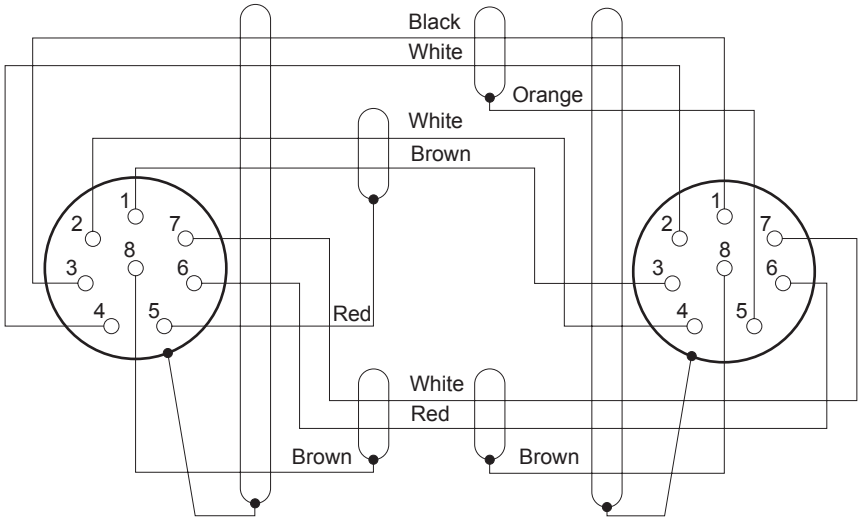


- EXT VIEW -

No.	Signal	Specifi cations
1	TX (+)	Transmitted Data (+)
2	TX (–)	Transmitted Data (–)
3	RX (+)	Received Data (+)
4	NC	No connection
5	NC	No connection
6	RX (–)	Received Data (–)
7	NC	No connection
8	NC	No connection

2-1-2. Wiring Diagrams for Cables

CCA-5 Cable



– 8P CONNECTOR (MALE) –
(WIRING SIDE)

2-1-3. Connection Connectors

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.

Model Name	Connector Name	Connection Connectors/Cables
HKCU-HB10/15	CAMERA	LEMO ® PUW. 3K. 93C. TLCC96 or Tajimi Electronics Co.,Ltd. OPS2402-R
(HKC-HB10/15 side)	CCU	LEMO ® FUW. 3K. 93C. TLMC96 or Tajimi Electronics Co.,Ltd. OPS2404-R
HKCU-HB10/15	HD PROMPTER IN HD TRUNK OUT (BNC)	1-569-370-12 PLUG, BNC/5C-FB coaxial cable (Fujikura products recommended)
HKCU-HB10	REFERENCE SYNC CHARACTER AES/EBU (BNC)	
HKCU2005	SDI OUT (1-4) (BNC)	
HKCU-HB10	WF MODE (4P, Female)	1-560-155-00 PLUG, 4P Male (accessory)
HKCU-HB10	RCP/CNU AUX REMOTE (8P, Female)	1-766-848-11 PLUG, 8P Male or CCA CABLE Assembly (accessory) CCA-5-10 (10 m), CCA-5-3 (3 m)
HKCU-HB10/15	LAN (8P RJ-45)	LAN cable (shield type, category 5 or higher, commercially available)

2-1-4. Note in Connecting CAMERA Connector

It is recommendable to clean the optical contact portions mentioned below before connecting this unit to the camera.
For details on a cleaning method, refer to “Section 2-8 Cleaning of Connector/Cable”.

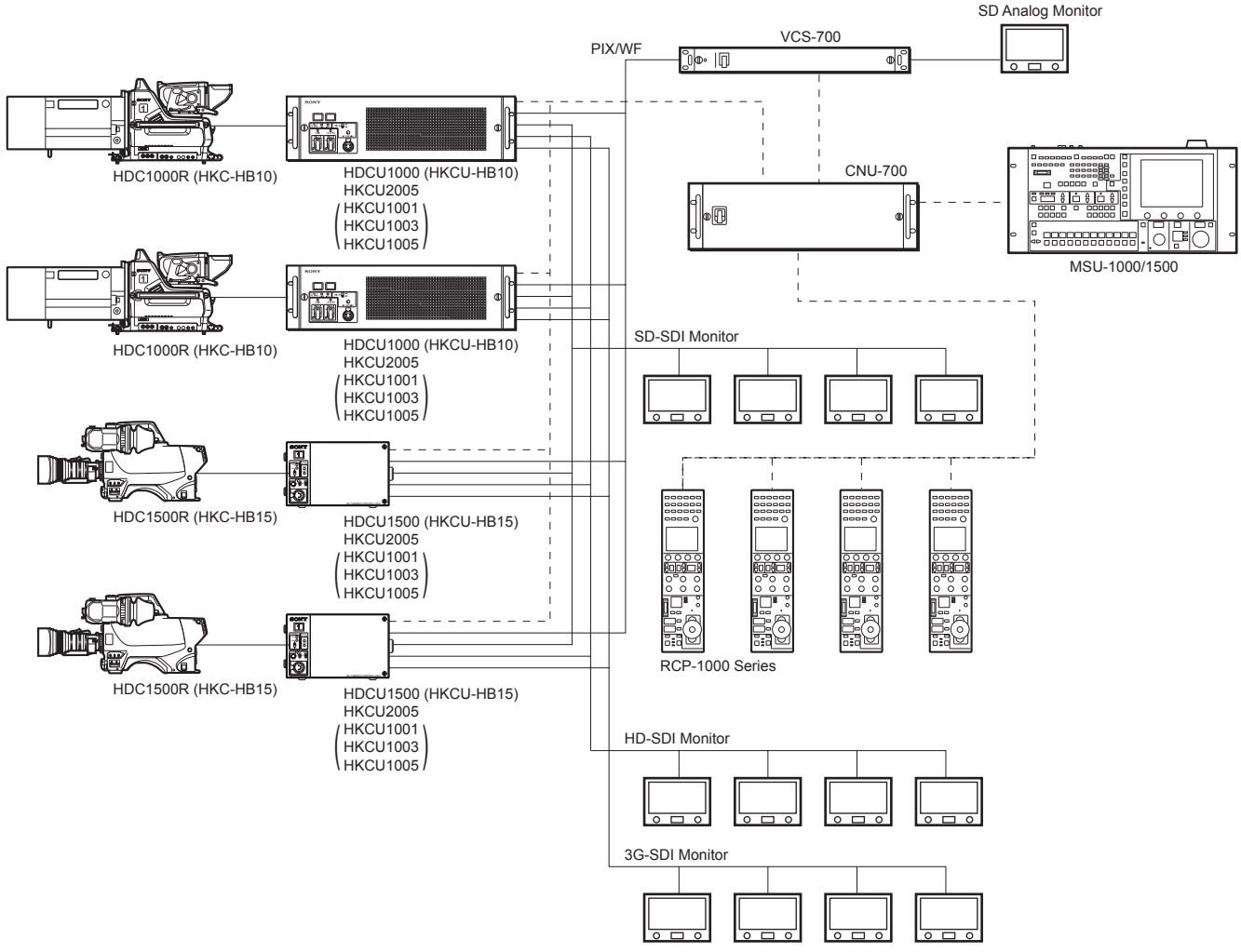
- CAMERA connector of this unit
- CCU connector of the camera
- Optical/Electrical cable

2-2. Optional Fixtures

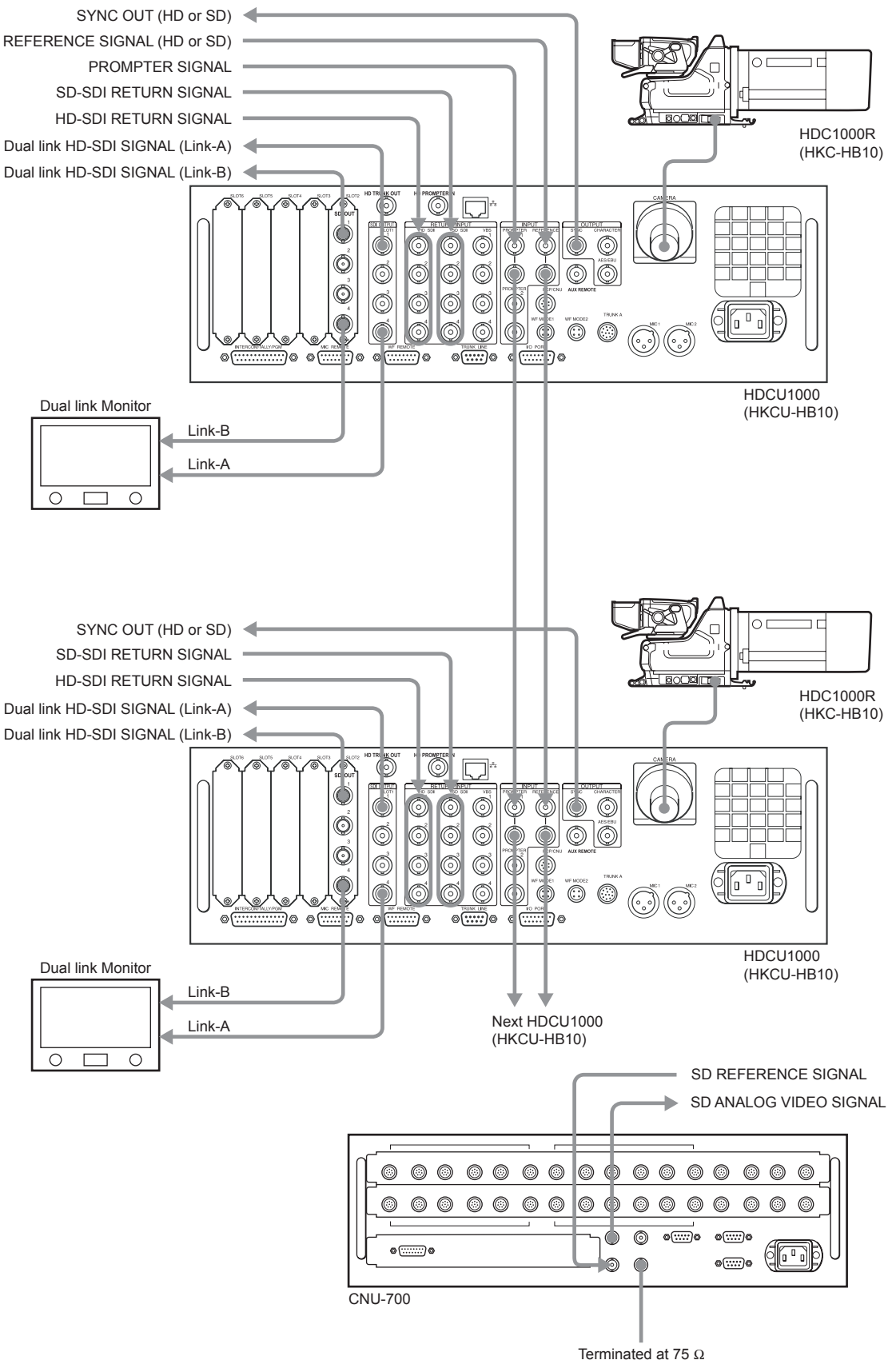
Sony part number	Name	Remarks
A-1153-700-A	Extended board EX-982	For extension of front boards
A-1153-701-A	Extended board EX-983	For extension of rear boards
A-1153-715-A	Extended board EX-984	For extension of the SDP-16 board
J-6480-010-A	Alignment sleeve remover HC-001	For female optical connector (LEMO® DCC.91.312.5LA or equivalent)
J-7120-220-A	PLD download fixture	PLD data download cable
–	Cotton swab	commercially available, for cleaning optical contact block (4 mm or less in diameter)

2-3. System Connection

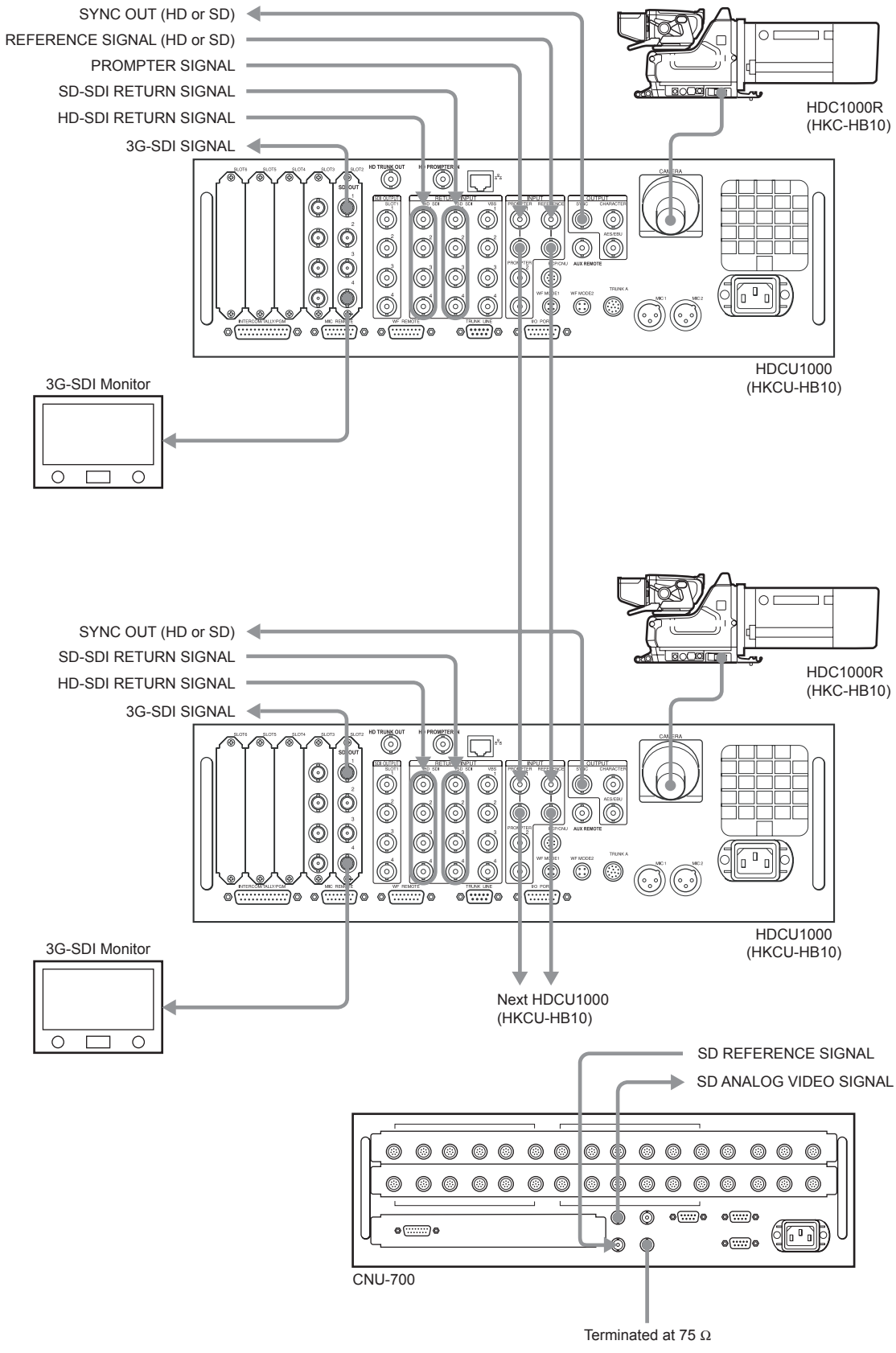
2-3-1. Example of connection



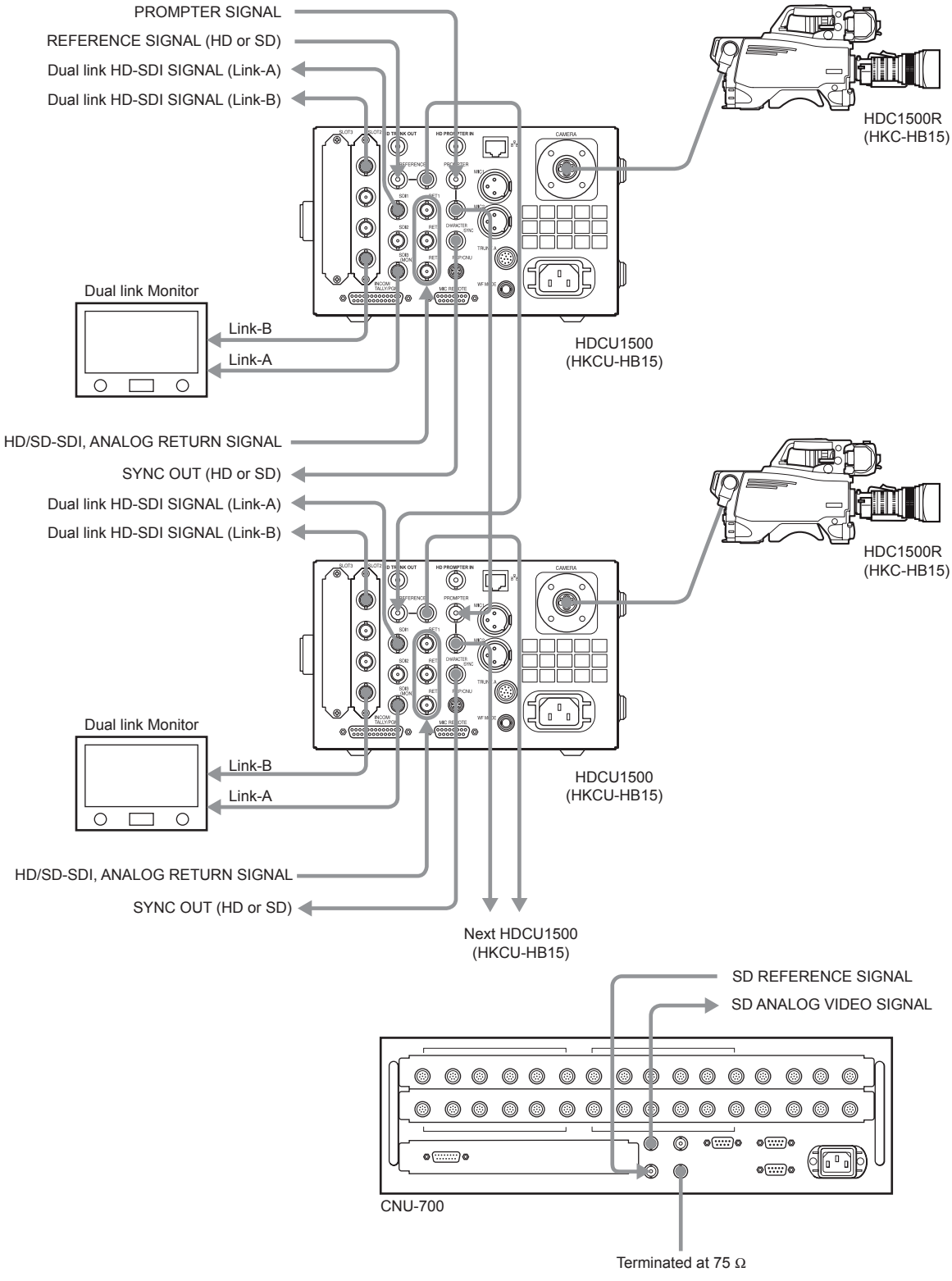
2-3-2. Dual Link System (HKCU-HB10)



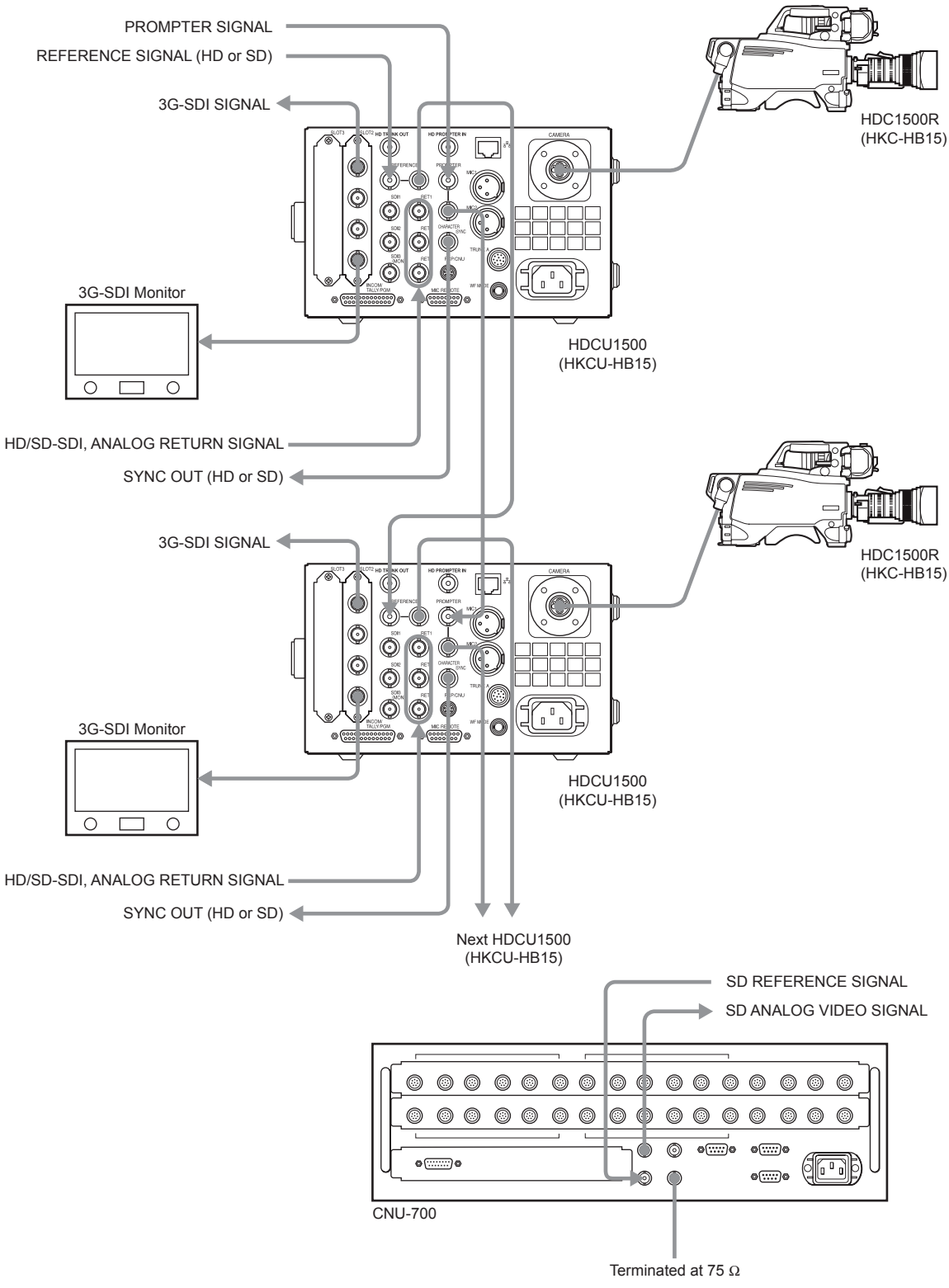
2-3-3. 3G-SDI System (HKCU-HB10 + HKCU2005)



2-3-4. Dual Link System (HKCU-HB15)



2-3-5. 3G-SDI System (HKCU-HB15 + HKCU2005)



2-4. Option Board Installation Position

For HDCU1000 with HKCU-HB10 installed or HDCU1500 with HKCU-HB15 installed, the following option boards are prepared. Slots to be used for the option boards and switch settings vary depending on the system used.
For the details, refer to “Section 2-3 System Connection”.

Model Name	Board Name (slot on the front side)	Board Name (slot on the rear side)
HKCU1001 SD Analog Interface Unit	EN-159A	VDA-64A
HKCU1003 MULTI Interface Unit	EN-159B	VDA-64A VDA-64B VDA-64C
HKCU1005 SDI Output Expansion Unit	DRX-5	HIF-26
HKCU2005 3G Single Link Interface Unit	DRX-8	HIF-57

2-4-1. HDCU1000 (HKCU-HB10)

• When installing one option board

No	Slot on the front side	Board Name	slot on the rear side	Board Name
1	2 3 4 5 6	Standard DRX-5 DRX-5	2 3 4 5 6	Standard HIF-26 HIF-26
2	2 3 4 5 6	DRX-8 Standard DRX-5	2 3 4 5 6	HIF-57 Standard HIF-26
3	2 3 4 5 6	Standard DRX-5 EN-159A	2 3 4 5 6	Standard HIF-26 VDA-64A

No	Slot on the front side	Board Name	slot on the rear side	Board Name
4-1	2 3 4 5 6	Standard DRX-5 EN-159B	2 3 4 5 6	Standard HIF-26 VDA-64A
4-2	2 3 4 5 6	Standard DRX-5 EN-159B	2 3 4 5 6	Standard HIF-26 VDA-64B
4-3	2 3 4 5 6	Standard DRX-5 EN-159B	2 3 4 5 6	Standard HIF-26 VDA-64A VDA-64C
4-4	2 3 4 5 6	Standard DRX-5 EN-159B	2 3 4 5 6	Standard HIF-26 VDA-64B VDA-64C

Notes

• The HKCU2005 can be inserted only into slot 2.
Shift the standard DRX-5 board and the standard HIF-26 board from slot 2 to slot 3.
• Three rear boards VDA-64A/64B/64C of HKCU1003 cannot be installed simultaneously.
When using VDA-64A/64B/64C simultaneously, use them together with HKCU1001.

• When installing two option boards

No	Slot on the front side	Board Name	slot on the rear side	Board Name
1	2	Standard DRX-5	2	Standard HIF-26
	3	DRX-5	3	HIF-26
	4	DRX-5	4	HIF-26
	5		5	
	6		6	
2	2	DRX-8	2	HIF-57
	3	Standard DRX-5	3	Standard HIF-26
	4	DRX-5	4	HIF-26
	5		5	
	6		6	
3	2	Standard DRX-5	2	Standard HIF-26
	3	DRX-5	3	HIF-26
	4	EN-159A	4	VDA-64A
	5		5	
	6		6	
4-1	2	Standard DRX-5	2	Standard HIF-26
	3	DRX-5	3	HIF-26
	4	EN-159B	4	VDA-64A
	5		5	
	6		6	
4-2	2	Standard DRX-5	2	Standard HIF-26
	3	DRX-5	3	HIF-26
	4	EN-159B	4	VDA-64B
	5		5	
	6		6	
4-3	2	Standard DRX-5	2	Standard HIF-26
	3	DRX-5	3	HIF-26
	4	EN-159B	4	VDA-64A
	5		5	VDA-64C
	6		6	
4-4	2	Standard DRX-5	2	Standard HIF-26
	3	DRX-5	3	HIF-26
	4	EN-159B	4	VDA-64B
	5		5	VDA-64C
	6		6	
5	2	DRX-8	2	HIF-57
	3	Standard DRX-5	3	Standard HIF-26
	4	EN-159A	4	VDA-64A
	5		5	
	6		6	

No	Slot on the front side	Board Name	slot on the rear side	Board Name
6-1	2	DRX-8	2	HIF-57
	3	Standard DRX-5	3	Standard HIF-26
	4	EN-159B	4	VDA-64A
	5		5	
	6		6	
6-2	2	DRX-8	2	HIF-57
	3	Standard DRX-5	3	Standard HIF-26
	4	EN-159B	4	VDA-64B
	5		5	
	6		6	
6-3	2	DRX-8	2	HIF-57
	3	Standard DRX-5	3	Standard HIF-26
	4	EN-159B	4	VDA-64A
	5		5	VDA-64C
	6		6	
6-4	2	DRX-8	2	HIF-57
	3	Standard DRX-5	3	Standard HIF-26
	4	EN-159B	4	VDA-64B
	5		5	VDA-64C
	6		6	
7	2	Standard DRX-5	2	Standard HIF-26
	3	EN-159A	3	VDA-64A
	4	EN-159A	4	VDA-64A
	5		5	
	6		6	
8-1	2	Standard DRX-5	2	Standard HIF-26
	3	EN-159A	3	VDA-64A
	4	EN-159B	4	VDA-64A
	5		5	
	6		6	
8-2	2	Standard DRX-5	2	Standard HIF-26
	3	EN-159A	3	VDA-64A
	4	EN-159B	4	VDA-64B
	5		5	
	6		6	
8-3	2	Standard DRX-5	2	Standard HIF-26
	3	EN-159A	3	VDA-64A
	4	EN-159B	4	VDA-64A
	5		5	VDA-64C
	6		6	
8-4	2	Standard DRX-5	2	Standard HIF-26
	3	EN-159A	3	VDA-64A
	4	EN-159B	4	VDA-64B
	5		5	VDA-64C
	6		6	

Notes

- The HKCU2005 can be inserted only into slot 2.
  Shift the standard DRX-5 board and the standard HIF-26 board from slot 2 to slot 3.
- Three rear boards VDA-64A/64B/64C of HKCU1003 cannot be installed simultaneously.
  When using VDA-64A/64B/64C simultaneously, use them together with HKCU1001.

• When installing three option boards

No	Slot on the front side	Board Name	slot on the rear side	Board Name
1	2	Standard DRX-5	2	Standard HIF-26
	3	DRX-5	3	HIF-26
	4	DRX-5	4	HIF-26
	5	EN-159A	5	VDA-64A
	6		6	
2-1	2	Standard DRX-5	2	Standard HIF-26
	3	DRX-5	3	HIF-26
	4	DRX-5	4	HIF-26
	5	EN-159B	5	VDA-64A
	6		6	
2-2	2	Standard DRX-5	2	Standard HIF-26
	3	DRX-5	3	HIF-26
	4	DRX-5	4	HIF-26
	5	EN-159B	5	VDA-64B
	6		6	
2-3	2	Standard DRX-5	2	Standard HIF-26
	3	DRX-5	3	HIF-26
	4	DRX-5	4	HIF-26
	5	EN-159B	5	VDA-64A
	6		6	VDA-64B
2-4	2	Standard DRX-5	2	Standard HIF-26
	3	DRX-5	3	HIF-26
	4	DRX-5	4	HIF-26
	5	EN-159B	5	VDA-64B
	6		6	VDA-64C
3	2	DRX-8	2	HIF-57
	3	Standard DRX-5	3	Standard HIF-26
	4	DRX-5	4	HIF-26
	5	EN-159A	5	VDA-64A
	6		6	
4-1	2	DRX-8	2	HIF-57
	3	Standard DRX-5	3	Standard HIF-26
	4	DRX-5	4	HIF-26
	5	EN-159B	5	VDA-64A
	6		6	
4-2	2	DRX-8	2	HIF-57
	3	Standard DRX-5	3	Standard HIF-26
	4	DRX-5	4	HIF-26
	5	EN-159B	5	VDA-64B
	6		6	
4-3	2	DRX-8	2	HIF-57
	3	Standard DRX-5	3	Standard HIF-26
	4	DRX-5	4	HIF-26
	5	EN-159B	5	VDA-64A
	6		6	VDA-64B
4-4	2	DRX-8	2	HIF-57
	3	Standard DRX-5	3	Standard HIF-26
	4	DRX-5	4	HIF-26
	5	EN-159B	5	VDA-64B
	6		6	VDA-64C

No	Slot on the front side	Board Name	slot on the rear side	Board Name
5	2	Standard DRX-5	2	Standard HIF-26
	3	DRX-5	3	HIF-26
	4	EN-159A	4	VDA-64A
	5	EN-159A	5	VDA-64A
	6		6	
6-1	2	Standard DRX-5	2	Standard HIF-26
	3	DRX-5	3	HIF-26
	4	EN-159A	4	VDA-64A
	5	EN-159B	5	VDA-64A
	6		6	
6-2	2	Standard DRX-5	2	Standard HIF-26
	3	DRX-5	3	HIF-26
	4	EN-159A	4	VDA-64A
	5	EN-159B	5	VDA-64B
	6		6	
6-3	2	Standard DRX-5	2	Standard HIF-26
	3	DRX-5	3	HIF-26
	4	EN-159A	4	VDA-64A
	5	EN-159B	5	VDA-64A
	6		6	VDA-64C
6-4	2	Standard DRX-5	2	Standard HIF-26
	3	DRX-5	3	HIF-26
	4	EN-159A	4	VDA-64A
	5	EN-159B	5	VDA-64B
	6		6	VDA-64C
7	2	DRX-8	2	HIF-57
	3	Standard DRX-5	3	Standard HIF-26
	4	EN-159A	4	VDA-64A
	5	EN-159A	5	VDA-64A
	6		6	
8-1	2	DRX-8	2	HIF-57
	3	Standard DRX-5	3	Standard HIF-26
	4	EN-159A	4	VDA-64A
	5	EN-159B	5	VDA-64A
	6		6	
8-2	2	DRX-8	2	HIF-57
	3	Standard DRX-5	3	Standard HIF-26
	4	EN-159A	4	VDA-64A
	5	EN-159B	5	VDA-64B
	6		6	
8-3	2	DRX-8	2	HIF-57
	3	Standard DRX-5	3	Standard HIF-26
	4	EN-159A	4	VDA-64A
	5	EN-159B	5	VDA-64A
	6		6	VDA-64C
8-4	2	DRX-8	2	HIF-57
	3	Standard DRX-5	3	Standard HIF-26
	4	EN-159A	4	VDA-64A
	5	EN-159B	5	VDA-64B
	6		6	VDA-64C

Notes

- The HKCU2005 can be inserted only into slot 2.
  Shift the standard DRX-5 board and the standard HIF-26 board from slot 2 to slot 3.
- Three rear boards VDA-64A/64B/64C of HKCU1003 cannot be installed simultaneously.
  When using VDA-64A/64B/64C simultaneously, use them together with HKCU1001.

• When installing four option boards

No	Slot on the front side	Board Name	slot on the rear side	Board Name
1	2	Standard DRX-5	2	Standard HIF-26
	3	DRX-5	3	HIF-26
	4	DRX-5	4	HIF-26
	5	EN-159A	5	VDA-64A
	6	EN-159A	6	VDA-64A
2-1	2	Standard DRX-5	2	Standard HIF-26
	3	DRX-5	3	HIF-26
	4	DRX-5	4	HIF-26
	5	EN-159A	5	VDA-64A
	6	EN-159B	6	VDA-64A
2-2	2	Standard DRX-5	2	Standard HIF-26
	3	DRX-5	3	HIF-26
	4	DRX-5	4	HIF-26
	5	EN-159A	5	VDA-64A
	6	EN-159B	6	VDA-64B
3	2	DRX-8	2	HIF-57
	3	Standard DRX-5	3	Standard HIF-26
	4	DRX-5	4	HIF-26
	5	EN-159A	5	VDA-64A
	6	EN-159A	6	VDA-64A
4-1	2	DRX-8	2	HIF-57
	3	Standard DRX-5	3	Standard HIF-26
	4	DRX-5	4	HIF-26
	5	EN-159A	5	VDA-64A
	6	EN-159B	6	VDA-64A
4-2	2	DRX-8	2	HIF-57
	3	Standard DRX-5	3	Standard HIF-26
	4	DRX-5	4	HIF-26
	5	EN-159A	5	VDA-64A
	6	EN-159B	6	VDA-64B

Note

• The HKCU2005 can be inserted only into slot 2.
Shift the standard DRX-5 board and the standard HIF-26 board from slot 2 to slot 3.

2-4-2. HDCU1500 (HKCU-HB15)

• When installing one option board

No	Slot on the front side	Board Name	slot on the rear side	Board Name
1	2 3	DRX-5	2 3	HIF-26
2	2 3	DRX-8	2 3	HIF-57
3	2 3	EN-159A	2 3	VDA-64A
4-1	2 3	EN-159B	2 3	VDA-64A
4-2	2 3	EN-159B	2 3	VDA-64B
4-3	2 3	EN-159B	2 3	VDA-64A VDA-64C
4-4	2 3	EN-159B	2 3	VDA-64B VDA-64C

• When installing two option boards

No	Slot on the front side	Board Name	slot on the rear side	Board Name
1	2 3	DRX-5 DRX-5	2 3	HIF-26 HIF-26
2	2 3	DRX-8 DRX-5	2 3	HIF-57 HIF-26
3	2 3	DRX-5 EN-159A	2 3	HIF-26 VDA-64A
4-1	2 3	DRX-5 EN-159B	2 3	HIF-26 VDA-64A
4-2	2 3	DRX-5 EN-159B	2 3	HIF-26 VDA-64B
5	2 3	DRX-8 EN-159A	2 3	HIF-57 VDA-64A
6-1	2 3	DRX-8 EN-159B	2 3	HIF-57 VDA-64A
6-2	2 3	DRX-8 EN-159B	2 3	HIF-57 VDA-64B
7	2 3	EN-159A EN-159A	2 3	VDA-64A VDA-64A
8-1	2 3	EN-159A EN-159B	2 3	VDA-64A VDA-64A
8-2	2 3	EN-159A EN-159B	2 3	VDA-64A VDA-64B

Notes

• The HKCU2005 can be inserted only into slot 2.
• Install the option board from slot 2 in order.

2-5. Disconnecting/Connecting Flexible Card Wire

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

Removal

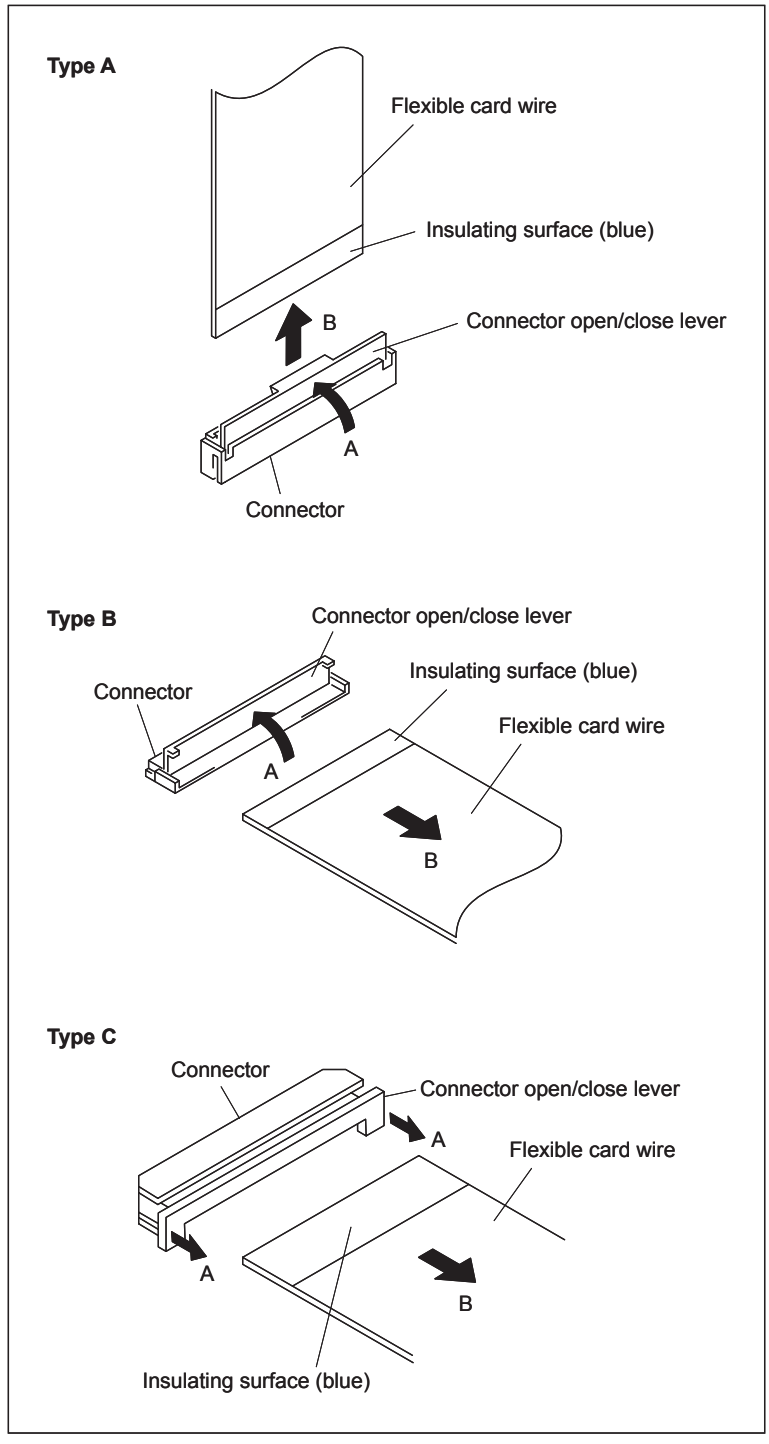
1. Raise or slide the connector open/close lever in the arrow A direction to unlock the coupling.
2. Pull out the flexible card wire in the arrow B direction.

Connecting

Notes

- Be careful not to insert the flexible card wire obliquely.
- Check that the conducive surface of the flexible card wire is not contaminated.

1. Raise or slide the connector open/close lever in the direction of arrow A to release the lock.
2. Insert the flexible card wire into the connector paying attention to the orientation of the insulated side.
3. Close the connector open/close lever to lock the flexible card wire.



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 parts listed below needs to be replaced or if PLD needs to be upgraded, contact your local Sony Sales Office/Service Center.

Note

The part number of PLD (or ROM for PLD) in which data is not written yet, is shown in "Section 5 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, the PLD has only to be replaced and data needs not to be written only.

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 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 PLDs

Board name	PLD Ref No.	EPR connector Ref No.(number of pins)	Project file No.
AT-167	IC601∗1, IC603	CN601 (8)	E_000_001_93_xx
AVP-6	IC302, IC310∗2	CN3 (8)	E_000_001_94_xx
DRX-5	IC211, IC213∗3, IC214∗3, IC215∗3	CN3 (8)	E_000_001_96_xx
DTX-5	IC401, IC505∗4, IC506∗4	CN501(8)	E_000_001_95_xx
DRX-8 (HKCU2005)	IC312	CN3 (10)	E_000_004_81_xx
EN-159A/159B (HKCU1001/1003)	IC210, IC501, IC502∗5, IC504∗5	CN501 (8)	E_000_001_98_xx
SDP-16∗6 (HKCU-HB10/15)	IC503, IC1000	CN402 (8)	E_000_001_97_xx

∗1 : IC601/AT-167 is a ROM for IC603/AT-167.
∗2 : IC310/AVP-6 is a ROM for IC302/AVP-6.
∗3 : IC213, IC214, IC215/DRX-5 is a ROM for IC211/DRX-5.
∗4 : IC505, IC506/DTX-5 is a ROM for IC401/DTX-5.
∗5 : IC502, IC504/EN-159A/159B is a ROM for IC210, IC501/EN-159A/159B.
∗6 : The data in the PLD of the SDP-16 board can also be written or rewritten via the AVP-6 board. Turn on switch S4-8 on the AVP-6 board.

Note

After having written or rewritten the data in the PLD of the SDP-16 board via the AVP-6 board, turn off switch S4-8 on the AVP-6 board.

Equipment required

- PLD download tool (Sony part number : J-7120-220-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.
3 Extend the board on which the PLD data is to be written or rewritten using the extension board. (Refer to Section 2-2.)
4. Connect the PC parallel port to the EPR connector of the target board using the PLD download tool (cable).
5. Turn on the power of this unit.
   Start the PLD Download Tool software and read the Project file.
6. Program the PLD (or ROM for PLD) with the PLD Download Tool software.
7. Upon completion of programming, check that error message is not displayed. Turn off the power of this unit and back on.
8. Check that the PLD version is correct on the status display of the menu. (Refer to Section 4-2.)

2-7. Circuit Protection Parts

Positive coefficient thermistor

This unit is provided with a positive coefficient thermistor (for power supply) as a circuit protective device. If an overcurrent flows in a positive coefficient thermistor or it heats up to a certain degree with the increase of the ambient temperature, its internal resistance increases sharply to limit the current flowing in the circuit. When a thermistor is activated, turn off the power and check the circuit of the unit. After the cause of the problem is removed and the device cools down, turn on the power again. The unit will work normally. It takes about one minute for the device to cool down after power-off.

Board name	Ref No.	Address	Sony part No.
DRX-8	THP1	E1 (A side)	⚠ 1-533-817-21
	THP2	E1 (A side)	⚠ 1-533-817-21
	THP3	F1 (A side)	⚠ 1-805-580-11
	THP5	E1 (A side)	⚠ 1-533-817-21
	THP6	C4 (A side)	⚠ 1-533-817-21
	THP7	B4 (A side)	⚠ 1-805-580-11
	THP9	D1 (A side)	⚠ 1-805-580-11

2-8. Cleaning of Connector/Cable

The photo receptive condition of the optical connector can be checked at OPTICAL CONDITION of the DTX board of this 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 this unit or HDC, and in the optical/electrical cables.

2-8-1. 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

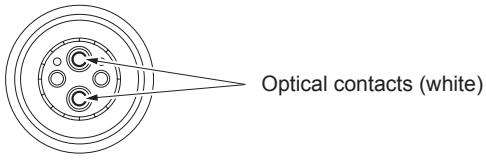
Notes

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

Cleaning procedure

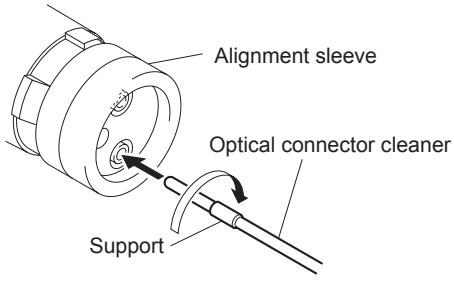
[Male connector]

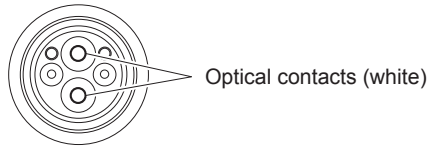
Clean the tip of the white optical contacts using the optical connector cleaner.



[Female connector]

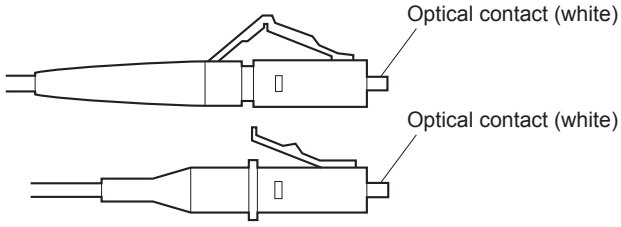
1. Insert the optical connector cleaner straight. Ensure that it is held straight when inserting.
2. Apply sufficient pressure (approximately 600 g to 700 g) to ensure that the optical contact is a little depressed.
3. While pressing the optical connector cleaner against the tip of the white optical 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.



2-8-2. When the Optical Connector Cleaner (Commercially Available) is not Available

Cleaning connectors/cables of LEMO

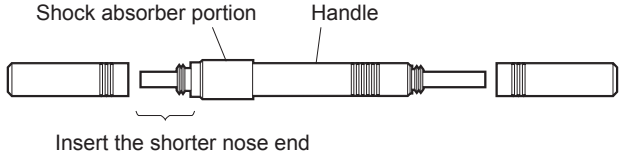
Clean the LEMO connectors and cables using the following procedure.

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)

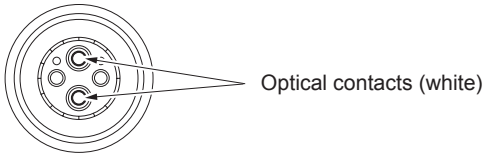
  Note

  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]

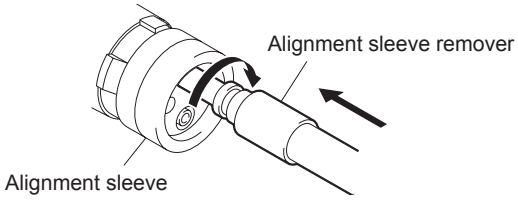
Clean the tip of the white optical contacts with a cotton swab moistened with alcohol.



[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 forcedly.

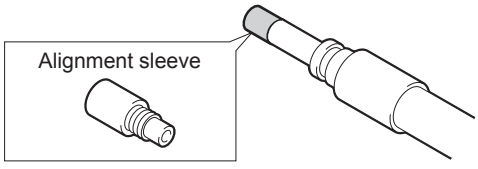
   Note

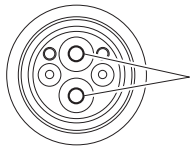
   The alignment sleeve can be removed/reinstalled with the sleeve itself attached to the tip of the remover.

   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

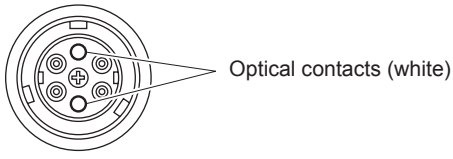
  Use a cotton swab whose diameter is about 4 mm.

  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]

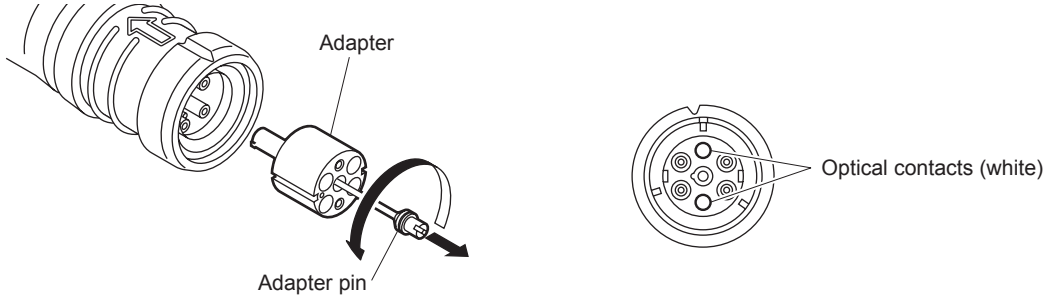
The optical contacts for female connector are in an unexposed state. In cleaning, it is necessary to be exposed by removing the adapter in the connector in advance. Proceed as follows.

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.

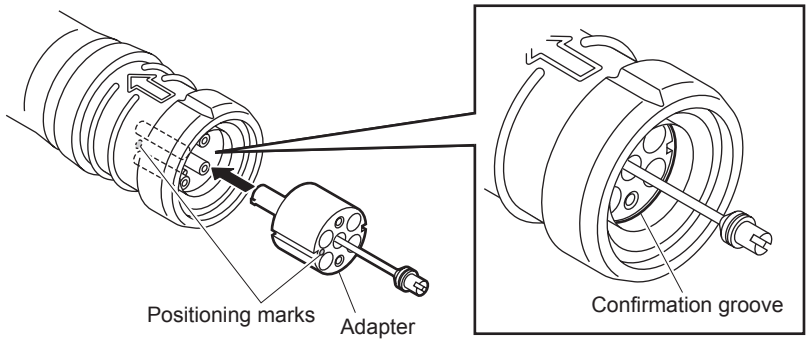
2. Pull the adapter pin out of the connector in the arrow direction.
3. Clean the white optical contacts with a cotton swab moistened with alcohol.



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.



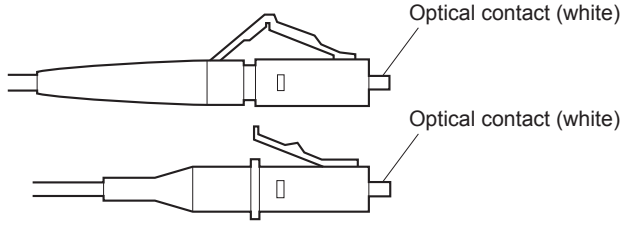
5. Tighten the adapter pin clockwise until you feel that it is fixed to some extent.

   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.



2-9. Circuit Description

Common to HKCU-HB10 and HKCU-HB15

SDP-16 board

The SDP-16 board processes main-channel signals sent from the camera, HD TRUNK video signals, return signals to the camera, and the HD PROMPTER signal. This board converts the main-channel serial optical signal sent from the camera from optical to electrical signal and from serial to parallel signal. Then, this board separates the digital audio signal and the commands multiplexed with the main-channel signal Link A, and sends the main-channel video signal Link A to the DRX-5 board in slot 1, the main-channel video signal Link B to the DRX-5 or DRX-8 board in slot 2, the digital audio signal to the AVP-6 board, and commands to the AT-167 board.
Also, the return video signal is sent from the DTX-5 board, the digital audio signal from the AVP-6 board, and commands from the AT-167 board. Then this board multiplexes the digital audio signal and the commands with the return video signal. Furthermore, the signal is multiplexed with the return signal and the HD PROMPTER signal. The multiplexed signal is converted from parallel to serial signal and from electrical to optical signal, and sent to the camera as the serial optical signal.

HKCU2005

DRX-8 board

The DRX-8 board processes the main-channel signals from the camera.

- 3G-SDI/HD-SDIoutput
- Conversion (1080P Format → 720P Format) function as necessary
- Frame conversion function as necessary
- Down-conversion function as necessary
- Has the built-in 3G-SDI/HD-SDI signal color bar generator and supports multiple formats
- Phase adjustment and re-clocking using line memory
- Matches the MIC signal from the camera to the delay of the video signal, and then multiplexes it to the SDI signal.
- Analog character output

HIF-57 board

The HIF-57 board has the coaxial connector for outputting the 3G-SDI/HD-SDI signals to external devices.
It outputs two systems of the main-line system 3G-SDI/HD-SDI signals sent from the DRX-8 board, and outputs two systems of the monitor-system 3G-SDI/HD-SDI signals.

2-10. Notes on Repair Parts

1. Safety Related Components Warning

WARNING

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

2. Standardization of Parts

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

3. Stock of Parts

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

4. Harness

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

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

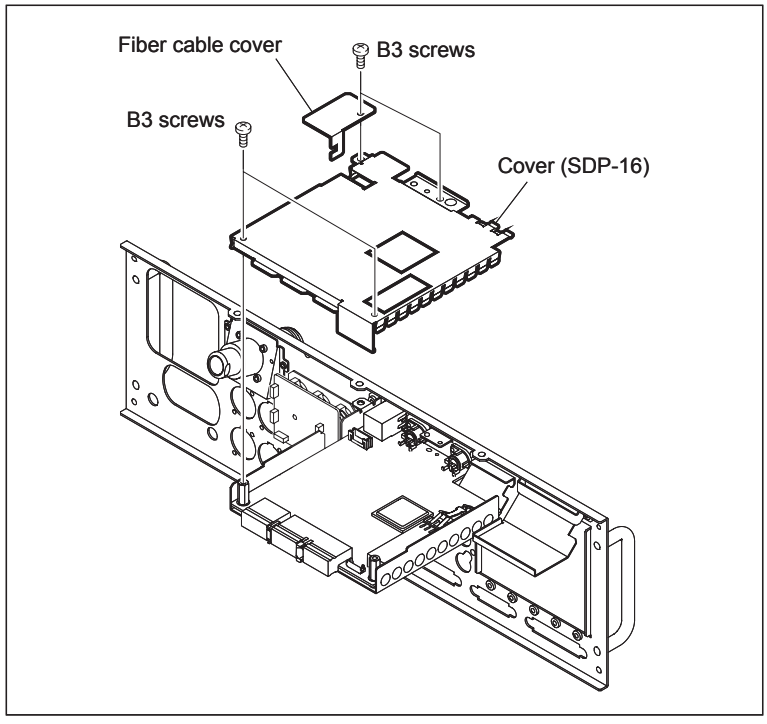
- Be sure to use the lead-free solder for the printed circuit board printed with the lead free mark.
- The lead-free solder melts at a temperature about 40 °C higher than the ordinary solder, therefore, it is recommended to use the soldering iron having a temperature regulator.
- The ordinary soldering 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

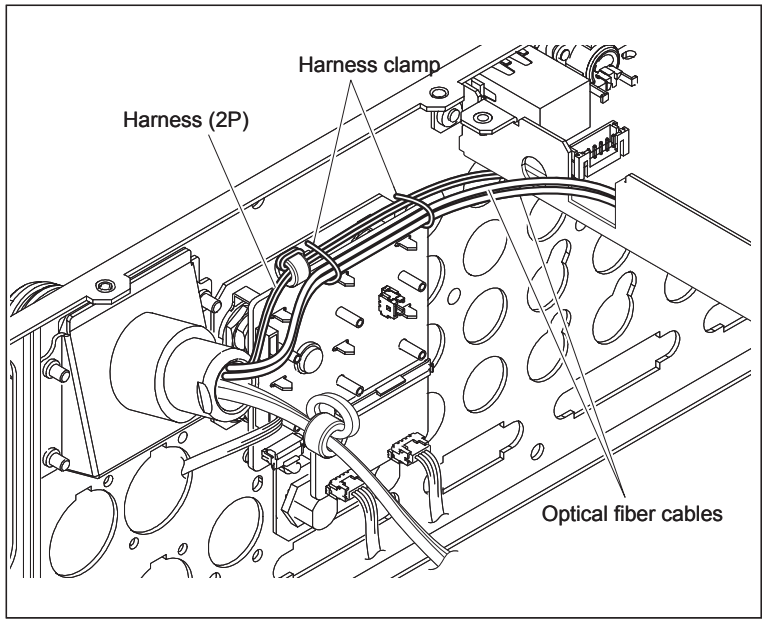
3-1. HKCU-HB10

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

1. Remove the rear panel assembly (HKCU-HB10). (Refer to Section 1-3-1.)
2. Remove the four screws to detach the fiber cable cover and the cover (SDP-16).



3. Release the two optical fiber cables and the harness (2P) from the two harness clamps.

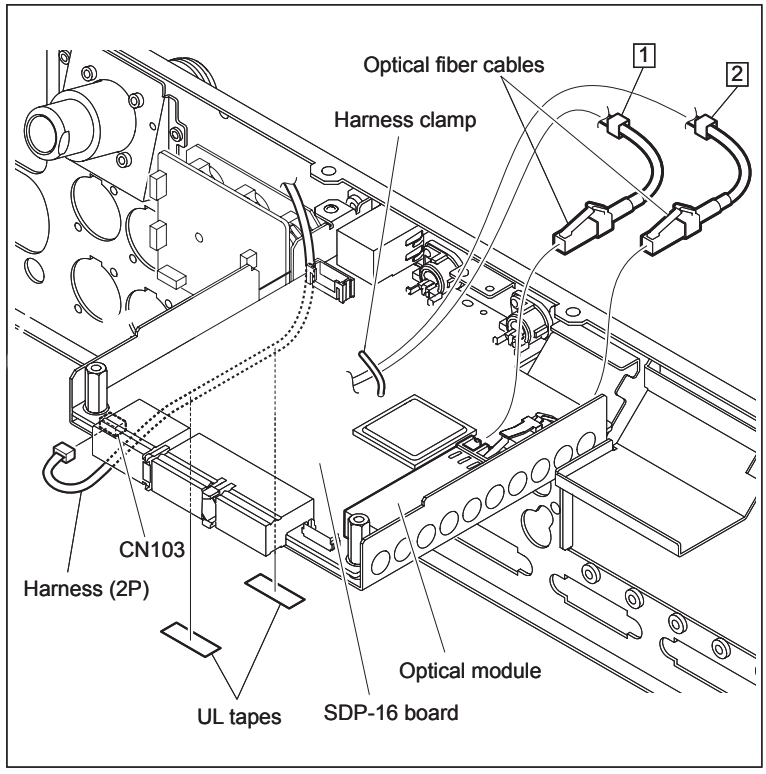


4. Open the harness clamp on the SDP-16 board and disconnect the two optical fiber cables from the optical module.

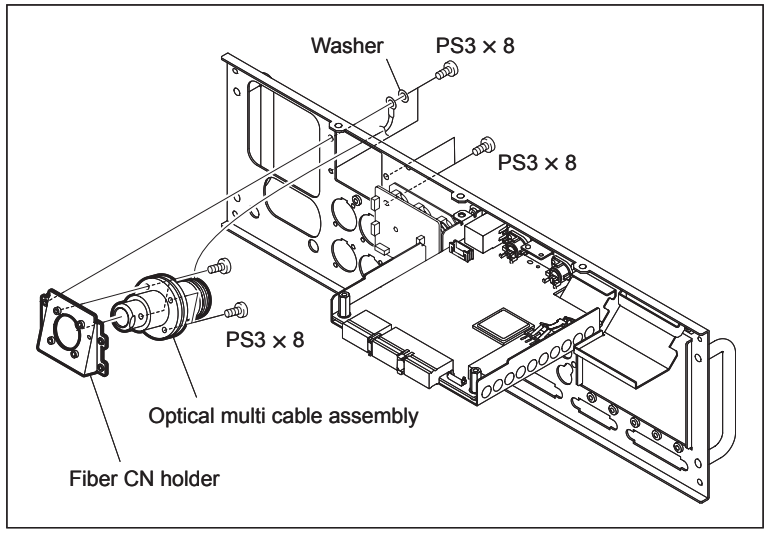
Notes

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

5. Remove the two UL tapes and disconnect the harness (2P) of the optical multi cable assembly from the connector CN103 on the SDP-16 board.



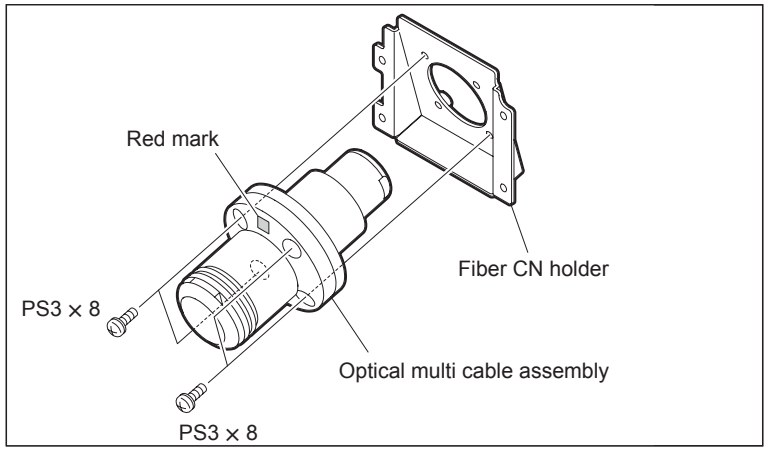
6. Remove the four screws and remove the optical multi cable assembly and the washer.
7. Remove the four screws to detach the fiber CN holder from the optical multi cable assembly.



8. Attach the fiber CN holder to the new optical multi cable assembly with four screws.

Note

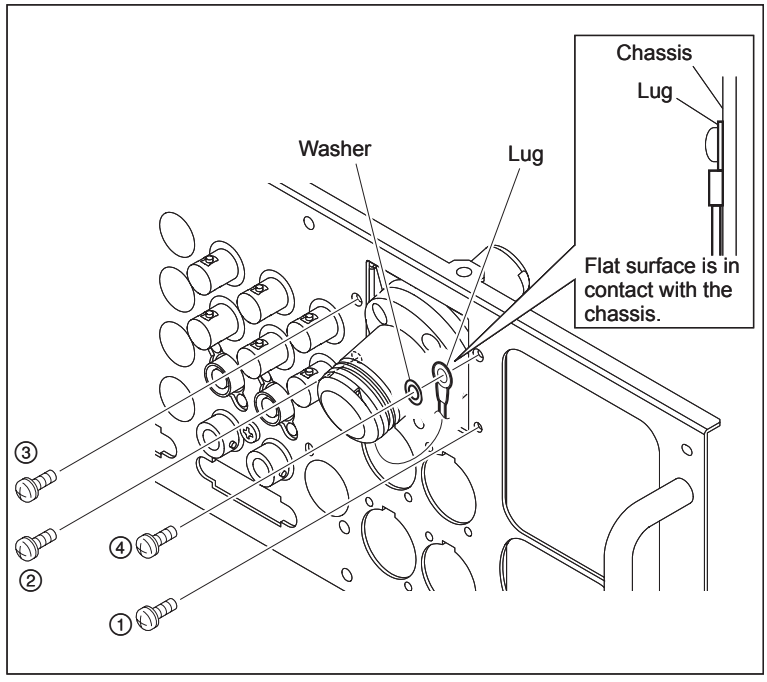
Attach the fiber CN holder paying attention to the red mark position.



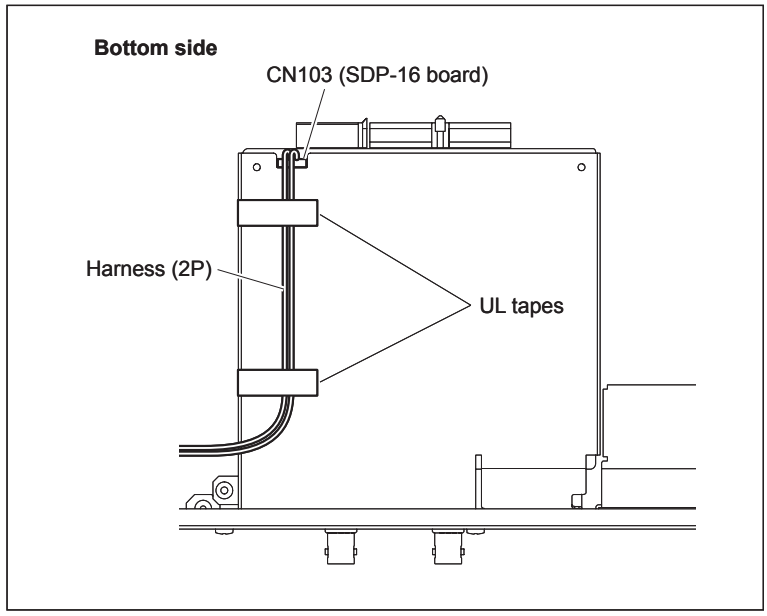
9. Install the optical multi cable assembly and the washers with four screws.

Notes

- When installing the optical multi cable assembly, tighten screws in the order shown in the figure.
- Install the lug of the optical multi cable assembly as shown in the figure so that the flat surface is in contact with the chassis.



10. Connect the harness (2P) of the optical multi cable assembly to the connector CN103 on the SDP-16 board and clamp the harness with two UL tapes at the locations shown in the figure.

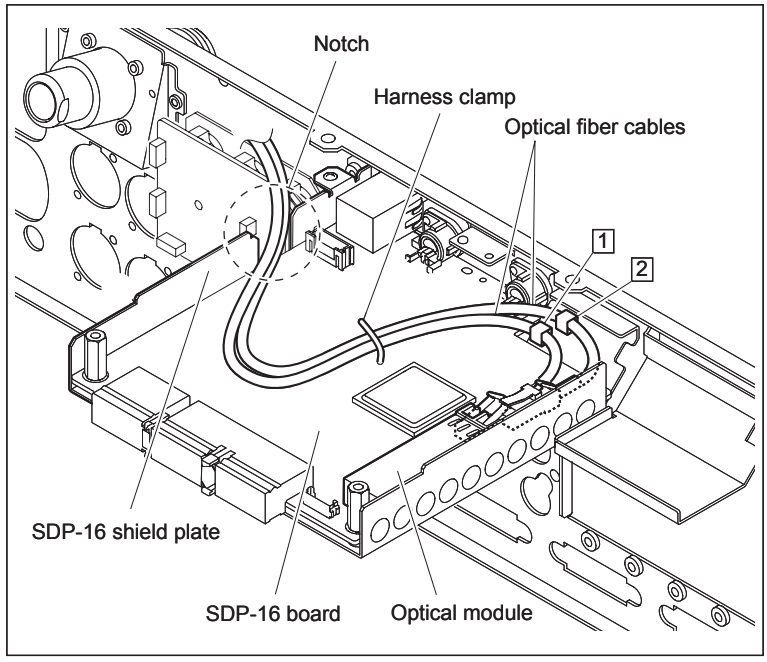


11. Connect the two optical fiber cables to the optical module on the SDP-16 board.

Notes

- Clean the connectors before connecting the optical fiber cables. (Refer to Section 2-8.)
- Check cable numbers when connecting optical fiber cables, and insert the cable connector as far as it will go.

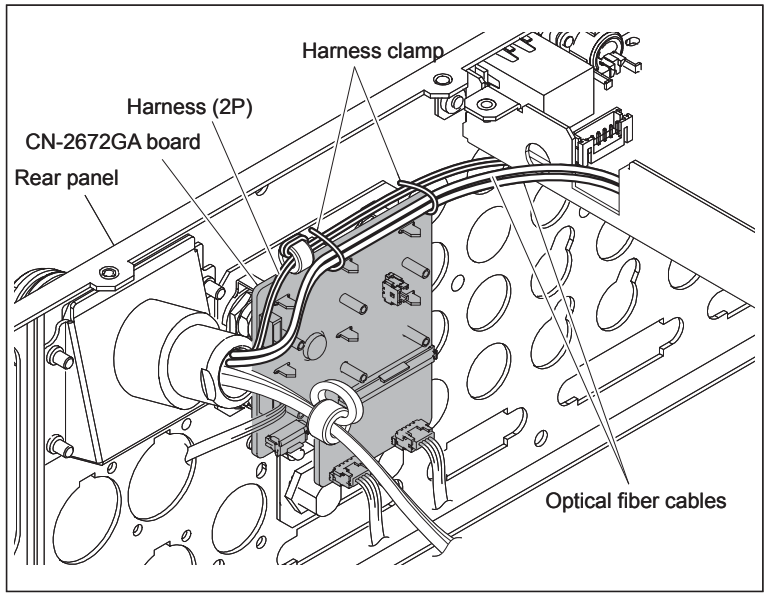
12 Extend the optical fiber cables between parts and through the notch of the SDP-16 shield plate as shown in the figure, and clamp the cables with the harness clamp.



13. Extend the two optical fiber cables and the harness (2P) as shown in the figure and clamp them with the harness clamps.

Note

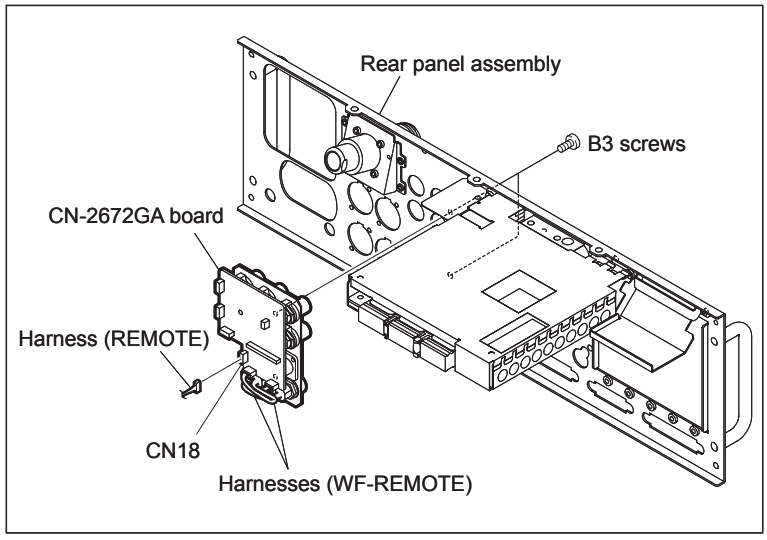
Extend the harness (2P) between the CN-2672GA board and the rear panel as shown in the figure.



14. Attach the fiber cable cover and the cover (SDP-16) with four screws. (Refer to step 2.)
15. Install the rear panel assembly (HKCU-HB10). (Refer to Section 1-3-1.)

3-1-2. Replacing the CN-2672GA Board (HKCU-HB10)

1. Remove the rear panel assembly (HKCU-HB10). (Refer to Section 1-3-1.)
2. Disconnect the harness (REMOTE) from the connector CN18 on the CN-2672GA board.
3. Remove the two screws and remove the CN-2672GA board and the two harnesses (WF-REMOTE) from the rear panel assembly.

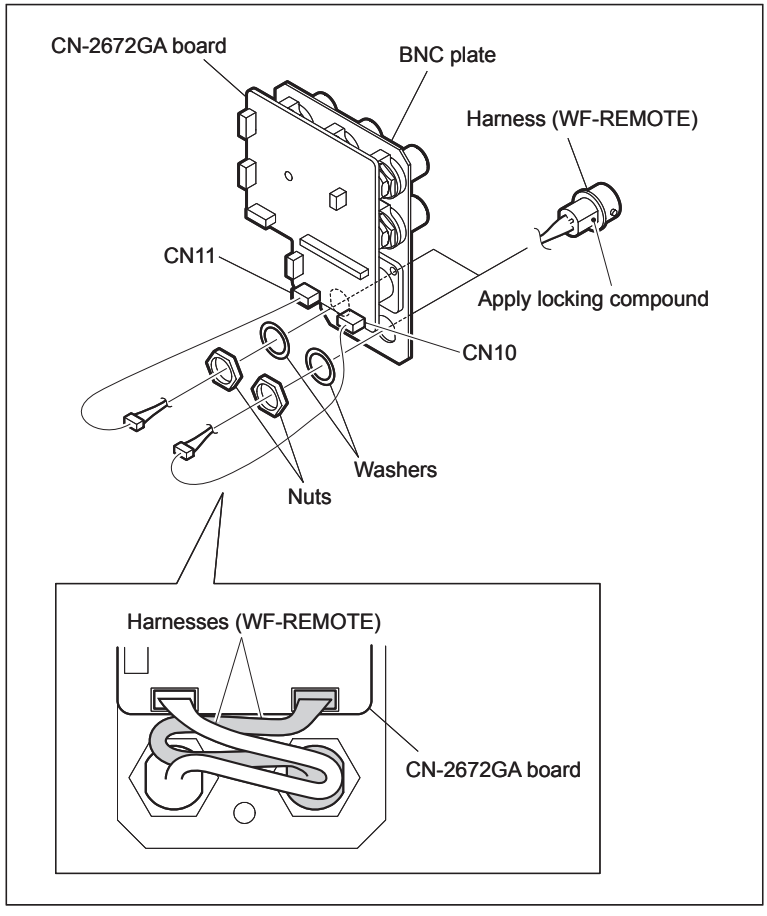


4. Disconnect the two harnesses (WF-REMOTE) from the connectors CN10 and CN11 on the CN-2672GA board.
5. Remove the two nuts and two washers and disconnect the two harnesses (WF-REMOTE) from the BNC plate.

6. Install the new CN2672GA board by reversing the steps of removal.

Notes

- Apply locking compound to the location shown in the figure.
- When connecting the harnesses (WF-REMOTE), arrange and push them as shown in the figure.



3-1-3. Replacing the SDP-16 Board (HKCU-HB10)

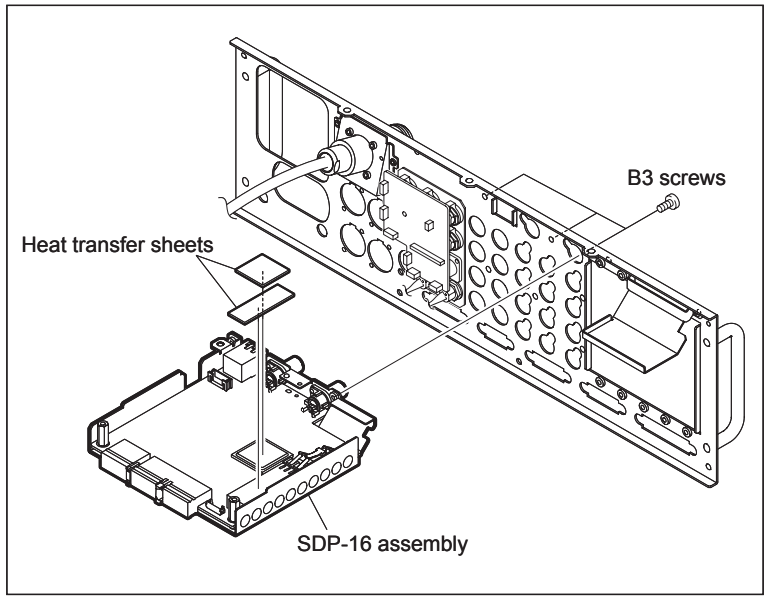
1. Remove the rear panel assembly (HKCU-HB10). (Refer to Section 1-3-1.)
2. Detach the fiber cable cover and the cover (SDP-16). (Refer to Section 3-1-1.)
3. Open the harness clamp on the SDP-16 board and disconnect the two optical fiber cables from the optical module.
   (Refer to Section 3-1-1.)

   Notes

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

4. Remove the two UL tapes and disconnect the harness (2P) of the optical multi cable assembly from the connector CN103 on the SDP-16 board. (Refer to Section 3-1-1.)

5. Remove the three screws and remove the SDP-16 board.
6. Remove the two heat transfer sheets.



7. Install the new SDP-16 board by reversing the steps of removal.

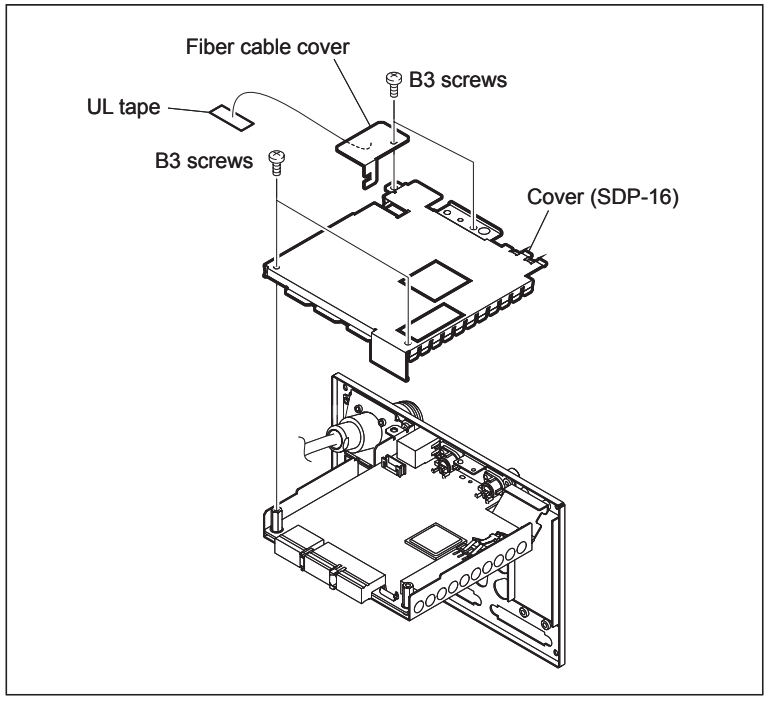
   Notes

   - It is recommended that the heat transfer sheets be replaced with new ones.
   - Attach heat transfer sheets with their darker-color side facing up.
   - For the installation and arrangement of the optical fiber cables and the harness (2P), refer to steps 10 to 12 in "3-1-1. Replacing the Optical multi Cable Assembly (HKCU-HB10)."

3-2. HKCU-HB15

3-2-1. Replacing the Optical multi Cable Assembly (HKCU-HB15)

1. Remove the rear panel assembly (HKCU-HB15). (Refer to Section 1-3-3.)
2. Remove the UL tape that clamps the harness (2P) of the optical multi cable assembly from the fiber cable cover.
3. Remove the four screws to detach the fiber cable cover and the cover (SDP-16).

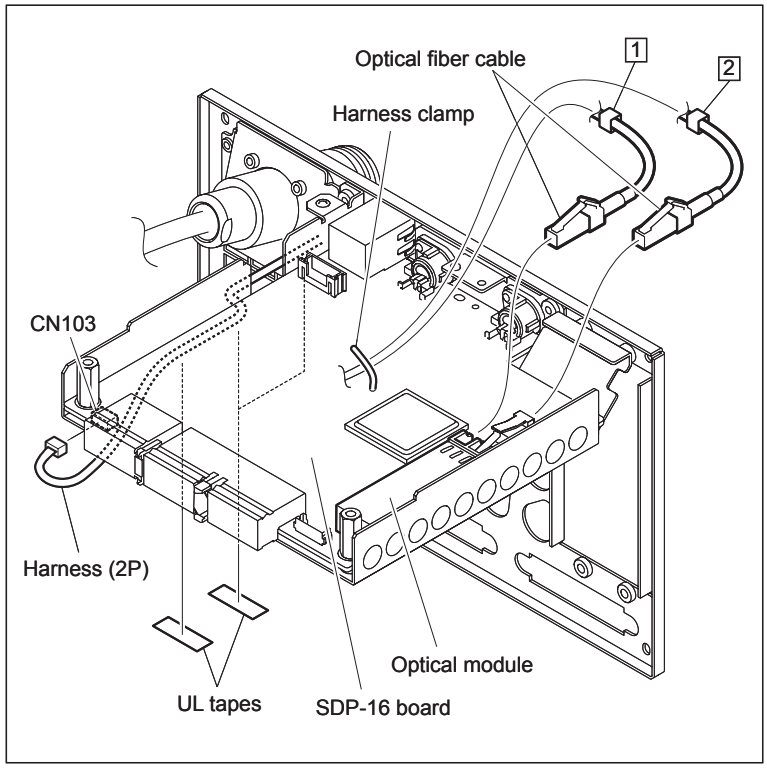


4. Open the harness clamp on the SDP-16 board and disconnect the two optical fiber cables from the optical module.

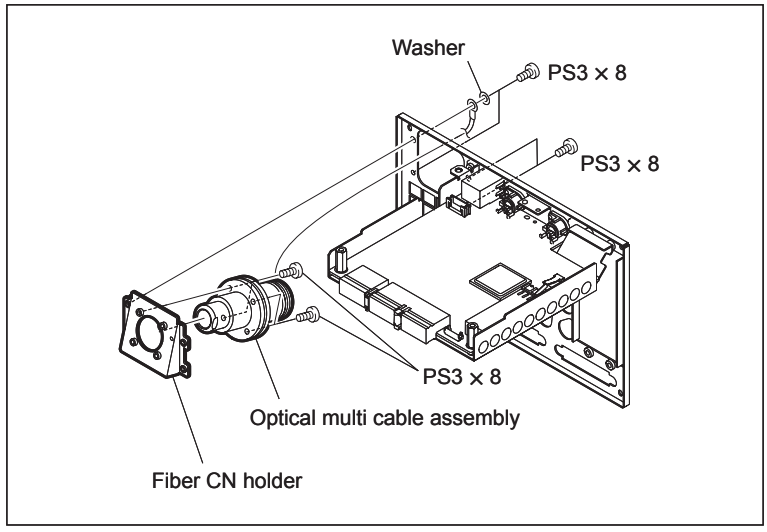
Notes

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

5. Remove the three UL tapes and disconnect the harness (2P) of the optical multi cable assembly from the connector CN103 on the SDP-16 board.



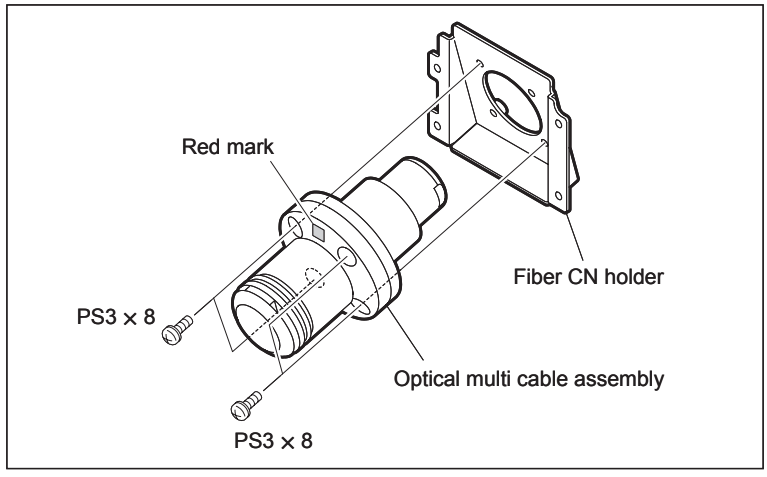
6. Remove the four screws and remove the optical multi cable assembly and the washers.
7. Remove the four screws to detach the fiber CN holder from the optical multi cable assembly.



8. Attach the fiber CN holder to the new optical multi cable assembly with four screws.

Note

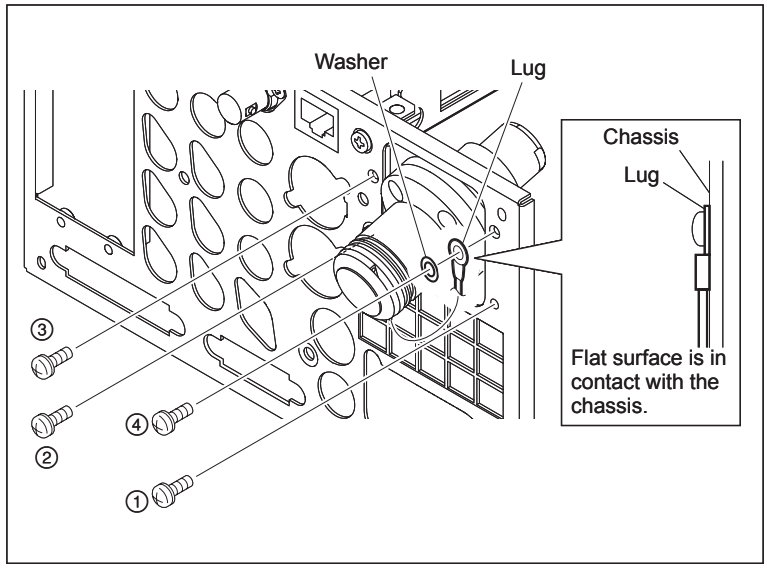
Attach the fiber CN holder paying attention to the red mark position.



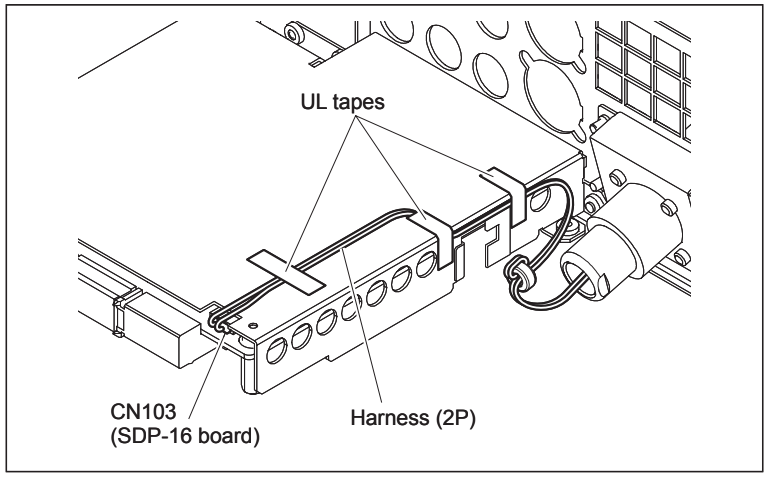
9. Install the optical multi cable assembly and the washers with four screws.

Notes

- When installing the optical multi cable assembly, tighten screws in the order shown in the figure.
- Install the lug of the optical multi cable assembly as shown in the figure so that the flat surface is in contact with the chassis.



10. Connect the harness (2P) of the optical multi cable assembly to the connector CN103 on the SDP-16 board and clamp the harness with three UL tapes at the locations shown in the figure.

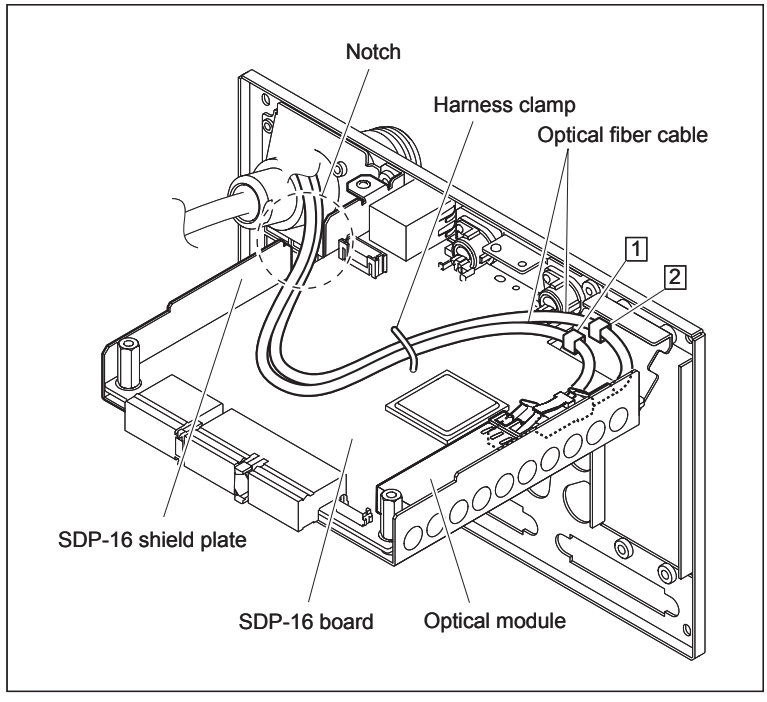


11. Connect the two optical fiber cables to the optical module on the SDP-16 board.

Notes

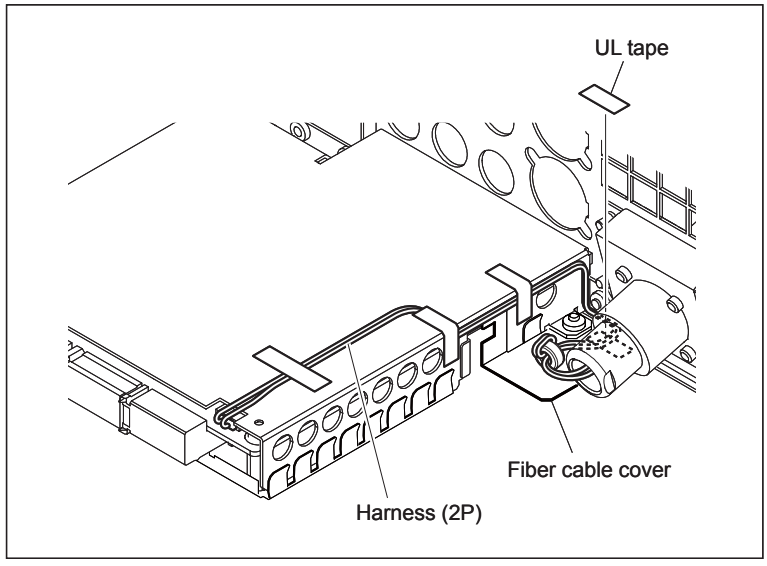
- Clean the connectors before connecting the optical fiber cables. (Refer to Section 2-8.)
- Check cable numbers when connecting optical fiber cables, and insert the cable connector as far as it will go.

12 Extend the optical fiber cables between parts and through the notch of the SDP-16 shield plate as shown in the figure, and clamp the cables with the harness clamp.



13. Attach the fiber cable cover and the cover (SDP-16) with four screws. (Refer to step 2.)

14. Extend the harness (2P) of the optical multi cable assembly as shown in the figure, and clamp it to the fiber cable cover with UL tapes.
15. Install the rear panel assembly (HKCU-HB15). (Refer to Section 1-3-3.)



3-2-2. Replacing the SDP-16 Board (HKCU-HB15)

1. Remove the rear panel assembly (HKCU-HB15). (Refer to Section 1-3-3.)
2. Remove the UL tapes that clamp the harness (2P) of the optical multi cable assembly from the fiber cable cover. (Refer to Section 3-2-1.)
3. Detach the fiber cable cover and the cover (SDP-16). (Refer to Section 3-2-1.)
4. Open the harness clamp on the SDP-16 board and disconnect the two optical fiber cables from the optical module.
   (Refer to Section 3-2-1.)

   Notes

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

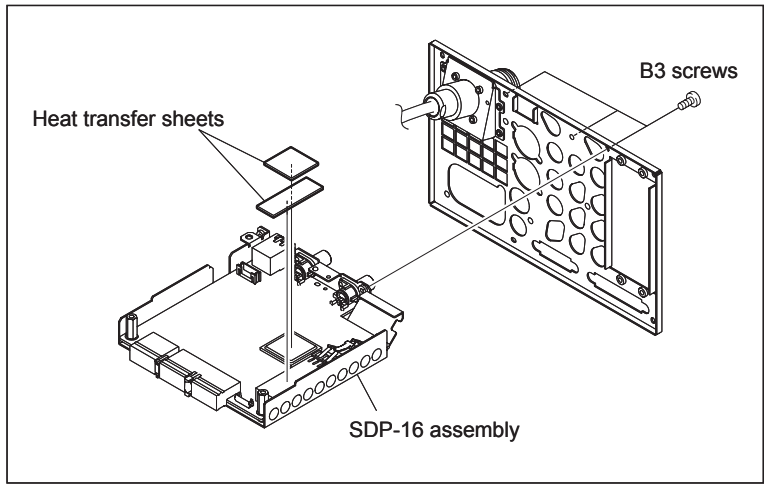
5. Remove the three UL tapes and disconnect the harness (2P) of the optical multi cable assembly from the connector CN103 on the SDP-16 board. (Refer to Section 3-2-1.)

6. Remove the three screws and remove the SDP-16 board.
7. Remove the two heat transfer sheets.

8. Install the new SDP-16 board by reversing the steps of removal.

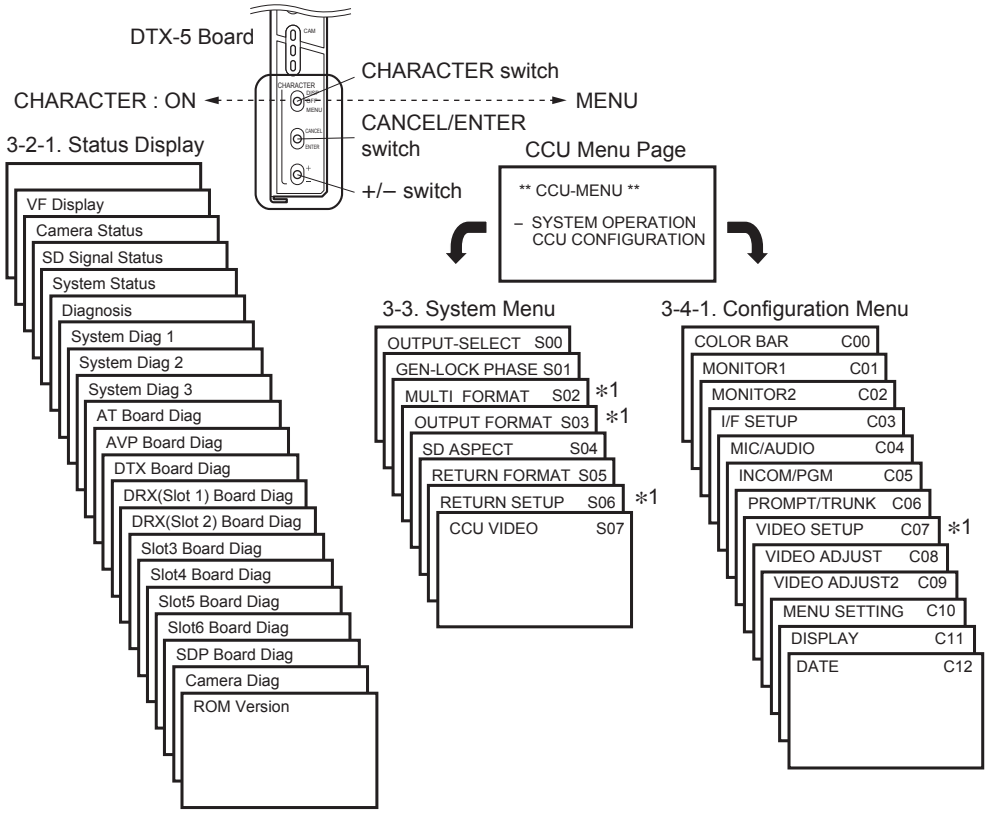
   Notes

   - It is recommended that the heat transfer sheets be replaced with new ones.
   - Attach heat transfer sheets with their darker-color side facing up.
   - For the installation and arrangement of the optical fiber cables and the harness (2P), refer to steps 10 to 14 in "3-2-1. Replacing the Optical multi Cable Assembly (HKCU-HB15)."



Section 4
Menu Settings

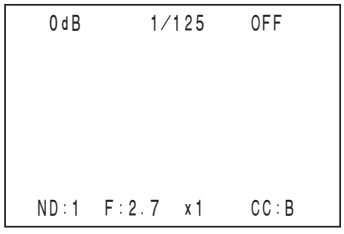
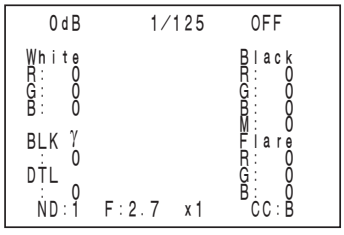
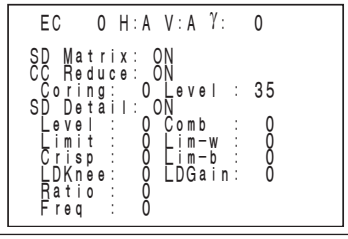
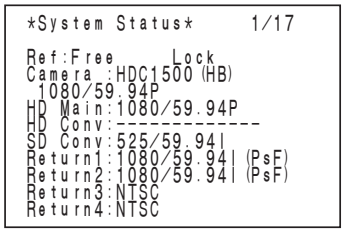
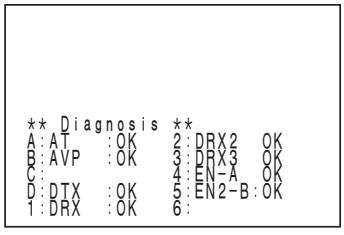
4-1. Menu Operation

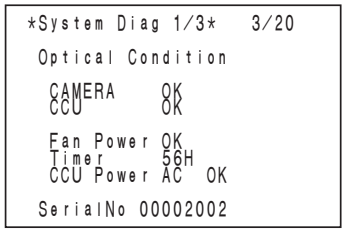
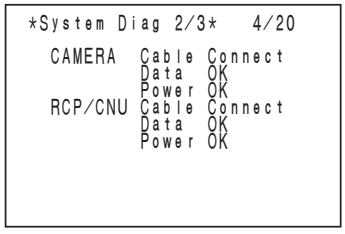
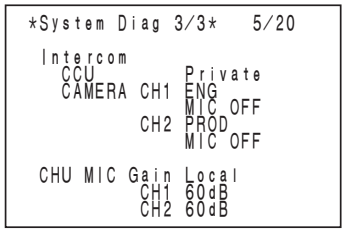
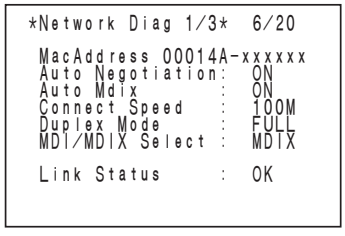
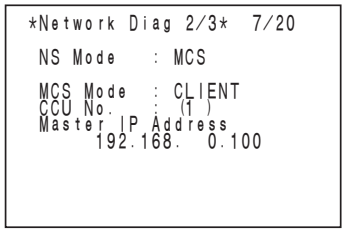
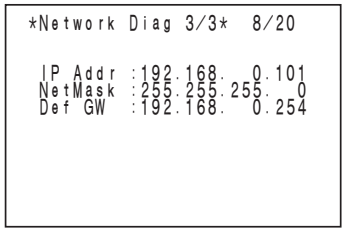


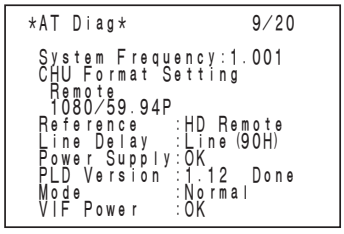
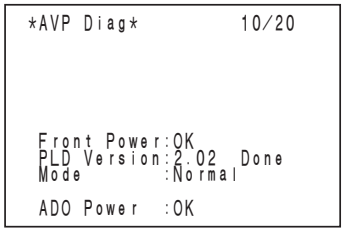
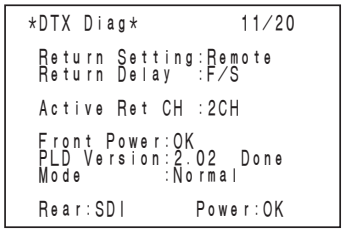
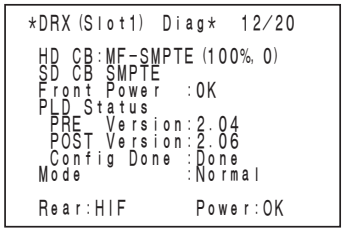
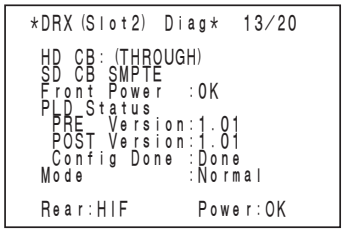
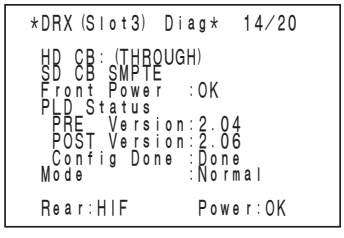
∗1: Page modified when HKCU-HB10 or HKCU-HB15 is installed

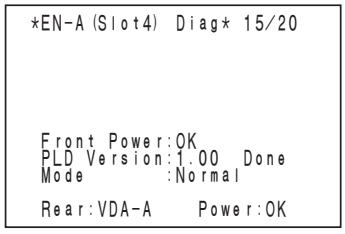
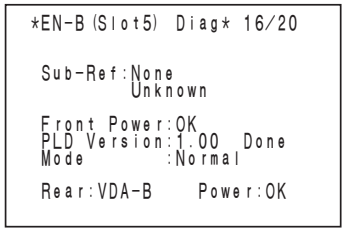
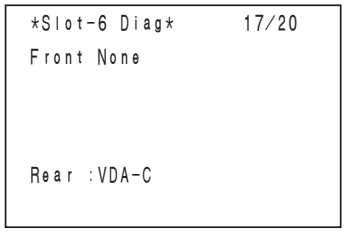
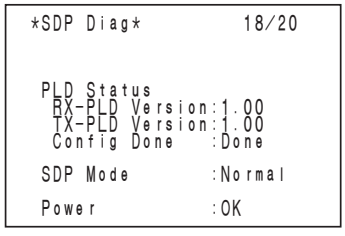
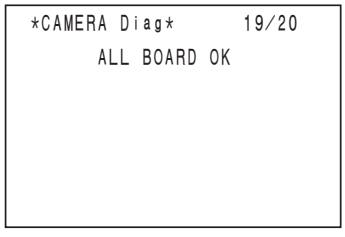
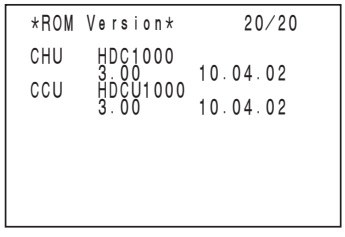
1. To operate the menu of CCU, open the front panel of HDCU1000/1500, and use the “CHARACTER switch”, “CANCEL/ENTER switch”, and “+/− switch” on the DTX-5 board.
2. Turning the “CHARACTER switch” upward displays the “status display menu” of CCU.
   Pressing the “+/− switch” upward (+) or downward (−) changes pages and another screen is displayed. The page number 0 is a blank page with no character.
3. Turning the CHARACTER switch downward displays CCU-MENU. CCU-MENU consists of the system menu, configuration menu, and network setting menu.
   When the +/− switch is pressed upward (+) or downward (-) with the CCU-MENU screen displayed, “→” in the screen moves. Place “→” beside the desired menu and turn the CANCEL/ENTER switch downward (ENTER) to go to the menu you want to select.
   To modify the content of each item of the CCU-MENU, select the relevant page and turn the CANCEL/ENTER switch downward (ENTER) to enter the selected page.
   Place “→”beside the item to be modified with the +/− switch and turn the CANCEL/ENTER switch downward (ENTER) to enter the item.
   Modify the content of the item with the +/− switch and turn the CANCEL/ENTER switch downward (ENTER) to enter the set value.
4. To cancel status display and CCU-MENU operation, set the CHARACTER switch to OFF.

4-2. Status Display

Page	Menu / Menu Image	Item	Description
1	VF Display 	MASTER GAIN EVS ON/OFF SHUTTER SETTING SHUTTER ON/OFF ND FILTER IRIS EXTENDER CC FILTER	Displays the camera SW status on the viewfinder of the connected camera.
2	Camera Status 	White R/G/B Black R/G/B BLK γ DTL Flare R/G/B	Displays the white balance, black balance, gamma, DTL, and flare status for the camera in addition to the information displayed above for VF Display.
3	SD Signal Status 	SD MATRIX CC Reduce SD Detail	Displays the SD signal status for CCU.
4	System Status 	Ref Condition CHU Model Name Format HD/SD out Format Return Setting	Displays the external synchronization settings, the model name and format settings for the connected camera, the output format settings from the CCU, and the Return signal format status.
5	Diagnosis 	HDCU1000 Slot A to D Slot 1 to 6 HDCU1500 Slot A to C Slot 1 to 3	Displays the names of the boards inserted into the front card slot and the results of the automatic diagnostics for those boards.

Page	Menu / Menu Image	Item	Description
6	System Diag 1 	Optical Condition CAMERA CCU Fan Power Timer CCU POWER Serial No.	Displays the levels of received light from the optical signals of the camera and HDCU, the status of the power unit, and the serial number.
7	System Diag 2 	CAMERA Cable Data Power RCP/CNU Cable Data Power	Displays the connection status and power status for the connected camera and HDCU, and for the devices connected to remote connectors of HDCU and HDCU.
8	System Diag 3 	Intercom CCU setting CAMERA Setting CHU MIC Gain Setting	Displays the setting of the intercom and camera microphone.
9	Network Diag 1 	MacAddress Auto Negotiation Auto Mdix Connect Speed Duplex Mode MDI/MDIX Select Link Status	MAC address of this unit. Displays auto negotiation setting. Displays auto MDIX setting. Displays the connection speed setting. Displays the duplex mode setting. Displays MDI/MDIX setting. Ethernet connection status.
10	Network Diag 2 	NS Mode MCS Mode CCU No. Master IP Address	Displays the remote connector and the Ethernet connector setting. Displays the superior-subordinate relationship for the Ethernet control setting. Displays the CCU number setting. IP address of the master device.
11	Network Diag 3 	IP Addr NetMask Def GW	Displays the IP address setting. Displays the netmask setting. Displays the default gateway setting.

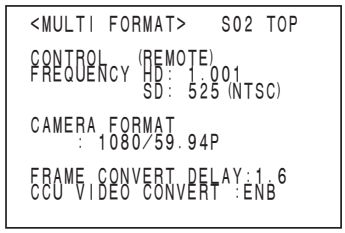
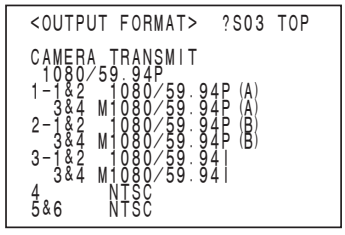
Page	Menu / Menu Image	Item	Description
12	AT Board Diag 	System Frequency CHU Format Setting Reference Line Delay Power Supply PLD Version Mode VIF Power	Displays the PLD Version and the status of the AT board. Displays the status of the power supplied to the VIF board.
13	AVP Board Diag 	Front Power PLD Version Mode ADO Power	Displays the PLD Version and the status of the AVP board. Displays the status of the power supplied to the ADO board.
14	DTX Board Diag 	Return Setting Return Delay Active Return CH Front Power PLD Version Mode Rear Power	Displays the PLD Version and the status of the DTX board. Displays the status of the power supplied to the SDI board.
15	DRX (Slot 1) Board Diag 	HD CB SD CB Front Power PLD Version Mode Rear Power	Displays the PLD Version and the status of the DRX board. Displays the status of the power supplied to the HIF board.
16	DRX (Slot 2) Board Diag 	HD CB SD CB Front Power PLD Version Mode Rear Power	HDCU1000 Displays the PLD Version and the status of the (second) DRX board. Displays the status of the power supplied to the (second) HIF board. HDCU1500 Displays the status of the board attached to the optional board for Slot 2 (front/rear). The display content varies depending on the board installed in the optional slot.
17	Slot 3 Board Diag 	HD CB SD CB Front Power PLD Version Mode Rear Power	Displays the status of the board attached to the optional board for Slot 3 (front/rear). The display content varies depending on the board installed in the optional slot.

Page	Menu / Menu Image	Item	Description
18	Slot 4 Board Diag 	POWER PLD MODE Rear POWER	HDCU1000 only Displays the status of the board attached to the optional board for Slot 4 (front/rear). The display content varies depending on the board installed in the optional slot.
19	Slot 5 Board Diag 	Sub-Ref POWER PLD MODE Rear POWER	HDCU1000 only Displays the status of the board attached to the optional board for Slot 5 (front/rear). The display content varies depending on the board installed in the optional slot.
20	Slot 6 Board Diag 	POWER PLD MODE Rear POWER	HDCU1000 only Displays the status of the board attached to the optional board for Slot 6 (front/rear). The display content varies depending on the board installed in the optional slot.
21	SDP Board Diag 	PLD Version Mode Power	Displays the PLD Version and the status of the SDP board.
22	Camera Diag 	(Camera Board, Diag Display)	Displays the results of the automatic diagnostics for each board of the camera. “ALL BOARD OK” is displayed if there are no abnormalities in the automatic diagnostics.
23	ROM Version 	CHU Version CCU Version	ROM version information for the connected camera. ROM version information for the main unit.

4-3. System Menu

Page	Menu / Menu Image	Item	Setting	Description
S00	OUTPUT-SELECT			
	<OUTPUT SELECT> ?S00 TOP OUTPUT:*CAMERA BAR TEST1 TEST2 PIX:*ENC R G B R&G G&B R&B RGB WFM:*ENC R G B SEQ R&G G&B R&B RGB	OUTPUT	∗ CAMERA	Select the output signal. ∗Signal display is output.
			BAR	
			TEST1	
			TEST2	
		PIX	∗ ENC	Select the output signal from PIX terminal. ∗Signal display is output.
			R	
			G	
			B	
			R&G	
			G&B	
			R&B	
			RGB	
		WFM	∗ ENC	Select the output signal from WFM terminal. ∗Signal display is output.
			R	
			G	
			B	
			SEQ	
			R&G	
			G&B	
			R&B	
			RGB	
S01	GEN-LOCK PHASE			
	<GEN-LOCK PHASE> S01 TOP CONTROL (REMOTE) REFERENCE (NOME) GEN-LOCK: HD (OK) H-STEP : 0.00µsec COARSE: 0 SC-PHASE: 0 SUB-REF : (NONE) UNKNOWN	CONTROL	(LOCAL/[REMOTE])	Displays Local/Remote status for Gen-Lock Control.
		REFERENCE	(EXT-in/[NOTE])	Displays the sub-reference signal input detection.
		GEN-LOCK	[HD]/SD	Sets the format of the reference signal. (When the AT board SW setting is REM)
		H-STEP	(OK/NG) –3.01 to [0.00] to +3.45 µsec	Displays the Ref Lock status. (OK: Locked, NG: Unlocked) Adjusts the lock phase: H-step
		COARSE	–99 to [0] to +99	Adjusts the lock phase: H-step fine adjustment
		SC-PHASE	–99 to [0] to +99	Adjusts the lock phase: SC-phase
		SUB-REF	(EXT-in/NONE) (UNKNOWN/ FrameGate/HD/SD)	Displays the sub-reference signal input detection. Displays the format of the sub-reference signal.

[ ]: The settings in the box are default values.

Page	Menu / Menu Image	Item	Setting	Description
S02	MULTI FORMAT 	CONTROL	(LOCAL/REMOTE)	Displays Local/Remote status for the format setting.
		FREQUENCY HD	[1001]/1000	Sets SYSTEM frequency. (Set 1001 when the SD format is NTSC, and 1000 when PAL.)
		SD	[525]/625	Displays SD format.
		CAMERA FORMAT	CAMERA Format (∗1)	Selects the camera format.
		FRAME CONVERT DELAY	0.8/1.2/[1.6]	Output delay time setting for the signal whose frame rate is converted. (Only when SYSTEM FREQUENCY is 1001.)
		CCU VIDEO CONVERT	[ENB]/DSB	Sets video conversion. When setting video conversion to ENB, set the frame synchronizer of the camera to ON. **Note** When CCU VIDEO CONVERT is set to ENB, a delay is generated in video conversion. Therefore, the camera signal phase is advanced to adjust the phase.
S03	OUTPUT FORMAT 	SLOT-NO 1-1&2 3&4 2-1&2 3&4 3 4 5 6	 OUTPUT Format (∗2) OUTPUT Format (∗2) OUTPUT Format (∗2) OUTPUT Format (∗2) OUTPUT Format (∗2) OUTPUT Format (∗2) OUTPUT Format (∗2) OUTPUT Format (∗2)	Sets the format of the output signal from each output terminal SLOT. • This is an example in HDCU1000. • Only Slots 1 to 3 are available in HDCU1500.

[ ]: The settings in the box are default values.

(∗1) CAMERA Format
(When HDC1000/1500 series connected)
The following formats can be selected according to the system frequency setting.
When SYSTEM FREQUENCY=1001
1080/59.94I
1080/29.97PsF
[1080/59.94P]
1080/23.98PsF
720/59.94P
When SYSTEM FREQUENCY=1000
1080/50I
1080/25PsF
1080/50P
1080/24PsF
720/50P

(∗2) OUTPUT Format (The following settings are possible according to the camera format. The setting content varies depending on the board installed in the optional slot.)

CAMERA Format

Output terminal	In 1080/59.94P	In 1080/59.94P
1-1&2	1080/59.94P (A)	1080/50P (A)
3&4	M1080/59.94P (A)	M1080/50P (A)
2-1&2	1080/59.94P (B)	1080/50P (B)
3&4	M1080/59.94P (B)	M1080/50P (B)
3-1&2	1080/59.94I	1080/50I
3&4	M1080/59.94I	M1080/50I
4	525/59.94I	625/50I
5&6	NTSC	PAL

CAMERA Format (HKCU2005)

Output terminal	In 1080/59.94P CCU VIDEO CON:ENB	In 1080/59.94P CCU VIDEO CON:DSB
1-1&2	1080/59.94P(A)	1080/59.94P(A)
3&4	M1080/59.94P(A)	M1080/59.94P(A)
2-1&2	1080/59.94P(3G)	1080/59.94P(3G)
3&4	1080/59.94P(B)	1080/59.94P(B)
3-1&2	720/59.94P	1080/59.94I
3&4	M720/59.94P	M1080/59.94I
4	525/59.94I	525/59.94I
5&6	NTSC	NTSC

For the output format that starts with an “M”, the signal with a character of HDCU is output.

Page	Menu / Menu Image	Item	Setting	Description
S04	SD ASPECT			
	<SD ASPECT> ?S04 TOP SD ASPECT : EDGE CROP SD LB SEL : 16:9 H-POSITION: 0 CENTER : ON V-POSITION: (0) CENTER : (ON) H-INTERP : A V-INTERP : A	SD ASPECT	SQUEEZE	Sets ASPECT for the SD output of the main unit.
			[EDGE CROP]	
			LETTER BOX	
		SD LB SEL	[16:9]/15:9/14:9/13:9	Sets edge cropping when LETTER BOX is selected in the SD output.
		H-POSITION CENTER	–99 to [0] to +99 OFF/[ON]	Sets the horizontal crop position for LB. Turns ON/OFF centering for the horizontal crop position.
		V-POSITION CENTER	–99 to [0] to +99 OFF/[ON]	Sets the vertical crop position for LB. Turns ON/OFF centering for the vertical crop position.
		H-INTERP	[A]/B/C/D/E	Sets the horizontal filter for the down converter.
		V-INTERP	[A]/B/C/D/E	Sets the vertical filter for the down converter.
S05	RETURN FORMAT			
	<RETURN FORMAT> ?S05 TOP RET1: 1080/59.94I (PsF) RET2: 525/59.94I (PsF) EDGE CROP 16:9 RET3: 1080/59.94I (PsF) RET4: 1080/59.94I (PsF) LINK TO MAIN : MANUAL	RET1	RET FORMAT (∗3) ASPECT/LB SEL	Sets the input format for the return signal. Sets Format/Aspect/Letter Box mode.
		RET2	RET FORMAT (∗3) ASPECT/LB SEL	
		RET3	RET FORMAT (∗3) ASPECT/LB SEL	
		RET4	RET FORMAT (∗3) ASPECT/LB SEL	
		LINK TO MAIN	[MANUAL]/AUTO	Selects the mode for how the main signal links with the return signal.

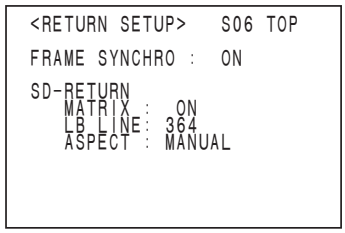
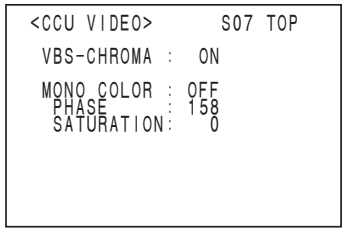
[ ]: The settings in the box are default values.

(∗3)
RET Format
In SYSTEM FREQUENCY=1001
[1080/59.94I (PsF)]
1080/23.97PsF
720/59.94P
525/59.94I (PsF)
NTSC

In SYSTEM FREQUENCY=1000
[1080/50I (PsF)]
1080/24PsF
720/50P
625/50I (PsF)
PAL

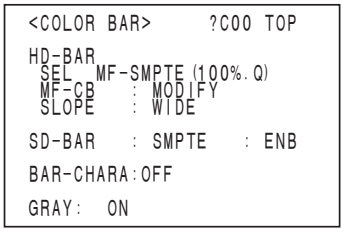
ASPECT
[SQUEEZE]
EDGE CROP
LETTER BOX

LB SEL
[16:9]
15:9
14:9
13:9

Page	Menu / Menu Image	Item	Setting	Description
S06	RETURN SETUP			
		FRAME SYNCHRO	OFF/[ON]	Turns ON/OFF the delay function for the return signal.
		SD-RETURN		
		MATRIX	OFF/[ON]	Turns ON/OFF the HD-Matrix to the SD return signal.
		LB LINE	360/[364]	Sets the number of valid lines for LETTER BOX mode.
		ASPECT	[MANUAL]/AUTO	Selects the automatic linking function of SD-Return ASPECT setting. **Note** The RET input signal is available only for HD-SDI and is not available for 3G-SDI.
S07	CCU VIDEO			
		VBS-CHROMA	OFF/[ON]	Turns ON/OFF the CHROMA signal for the VBS output signal.
		MONO COLOR	[OFF]/ON	Turns ON/OFF the MONO COLOR function.
		PHASE	[0] to 358	Adjusts the hue of MONO COLOR.
		SATURATION	–99 to [0] to +99	Adjusts the color level of MONO COLOR.

[ ]: The settings in the box are default values.

4-4. Configuration Menu

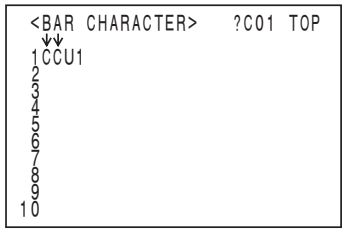
Page	Menu / Menu Image	Item	Setting	Description
C00	COLOR BAR			
		HD-BAR		Sets the color bar for the HD output.
		SEL	HD-BARS FORMAT (∗4)	Sets the type of color bar signal.
		MF-CB	[MODIFY]/EVEN	Selects MF-CB width.
		SLOPE	[WIDE]/NARROW	Sets the slope (bandwidth) of the color bar signal.
		SD-BAR	SD-BARS FORMAT (∗5)	Sets the color bar for the SD output.
			[ENB]/DSB	ENB : Outputs CB for SD. DSB : Changes HD-CB to SD signal and outputs it.
		BAR-CHARA	[OFF]/ON	Selects ON or OFF of the BARS CHARACTERS function that superimposes characters on the color bar signal.
		GRAY	OFF/[ON]	Selects ON or OFF of the GRAY function. ON : Outputs a gray screen when there is a signal error, or when the power to the camera is off. OFF : Outputs the CB signal.

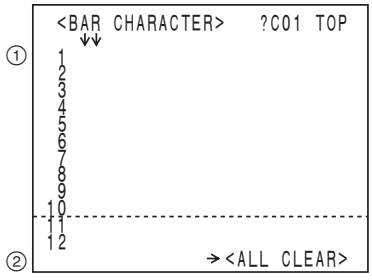
[ ]: The settings in the box are default values.

(∗4) HD-BARS FORMAT [BAR 16:9 (100%)]
BAR 16:9 (75%)
SMPTE 16:9 (BLACK)
SMPTE 16:9 (–I/Q)
BAR 4:3 (100%)
BAR 4:3 (75%)
SMPTE 4:3 (BLACK)
SMPTE 4:3 (–I/Q)
MF-ARIB (75%)
MF-ARIB (100%)
MF-ARIB (+I)
MF-SMPTE (–I, Q)
MF-SMPTE (75%, Q)
MF-SMPTE (100%, Q)
MF-SMPTE (+I, Q)
HD-CUSTOM
SDI CHECK FIELD
Y -RAMP
Y/C-RAMP
HD-CUSTOM2

(∗5) SD-BARS FORMAT [SMPTE]
EIA
FULL
95%
NTSC100%
Y/C-RAMP
Y -RAMP

Page	Menu / Menu Image	Item	Setting	Description
C01	BAR CHARACTER	(Character)		Sets the BARS CHARACTER





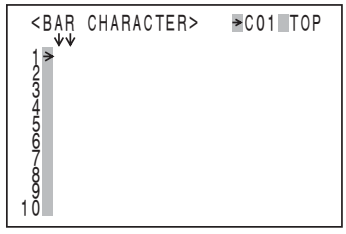
① BAR CHARACTER
Sets characters on the color bar.
② ALL CLEAR
Clears all.

When the characters are entered to the right edge of the screen, ESC or END can be selected.
If you select END, the entry of the desired characters is complete.

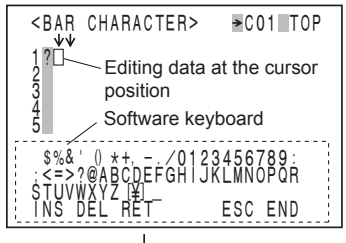
Editing Procedure
This example shows how to edit the first line.

Switches use
- ENTER
- CANCEL
- UP
- DOWN

1. Initial state

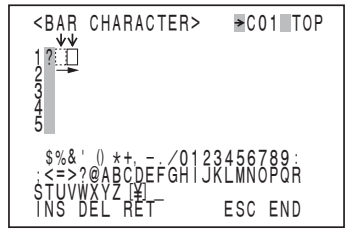


2. If you move the cursor to line number 1 and press ENTER, the screen changes to the edit mode.

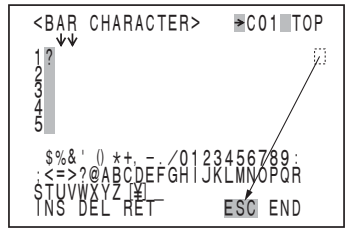


Switch functions for editing
- ENTER····· Enters the character input mode.
- CANCEL···· Cancels the edit mode. (Same as ESC. The edited content is not reflected.)
- UP ····· Increments the cursor. (Moves to the right.)
- DOWN····· Decrements the cursor. (Moves to the left.)

(1) Press UP to increment the data edit position cursor to the right.

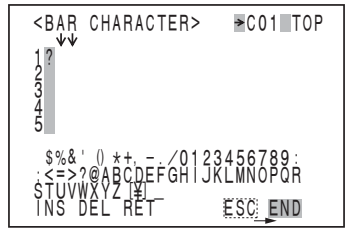


a. If you press UP at the end of the data edit area



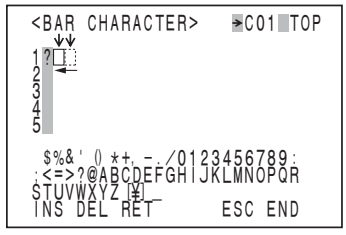
∗1: If you press ENTER here, the edited content is canceled, and the edit mode is also canceled.
∗2: If you press DOWN, the cursor returns to the end of the data edit area.

b. If you press UP at ESC



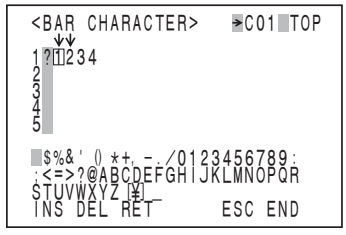
∗1: If you press ENTER here, the edited content is reflected, and the edit mode is also canceled.
∗2: If you press DOWN, the cursor returns to ESC.

(2) Press DOWN to decrement the data edit position cursor to the left.



∗ The cursor can no longer be decremented if it comes to the leftmost position (initial position).

3. Press ENTER in the edit mode to enter the character input mode.

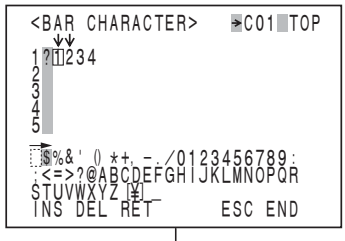


∗ The cursor appears on the software keyboard.

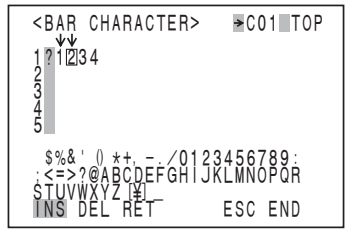
Switch functions in the character input mode
- ENTER····· Confirms the character. (Character input mode → edit mode)
- CANCEL ··· Cancels the character input mode. (Same as RET. The selected character is not reflected.)
- UP····· Increments the cursor on the software keyboard. (Moves to the right.)
- DOWN ····· Decrements the cursor on the software keyboard. (Moves to the left.)

Special function on the software keyboard
Move the cursor on the corresponding function, and press ENTER.
- INS····· Inserts a space in the place where the data edit cursor is located. (The mode stays the same.)
- DEL····· Deletes the character in the place where the data edit cursor is located, and the following characters are leftaligned. (The mode stays the same.)
- RET····· Cancels the character input mode. (Same as CANCEL. The selected character is not reflected.)

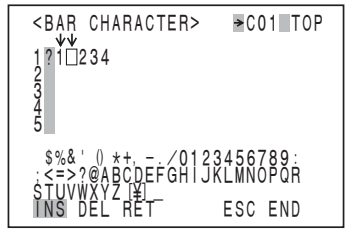
(1) Press UP to increment the cursor to the right.



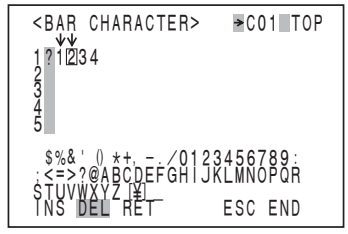
a. INS operation



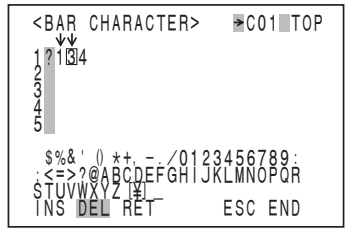
When ENTER is pressed



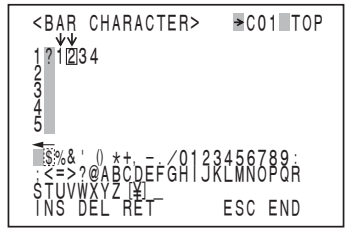
b. DEL operation



When ENTER is pressed



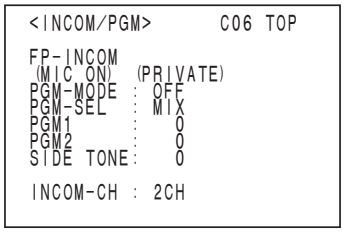
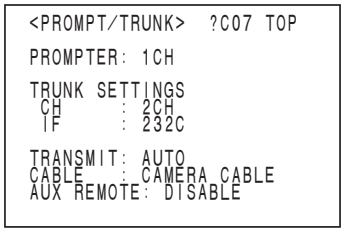
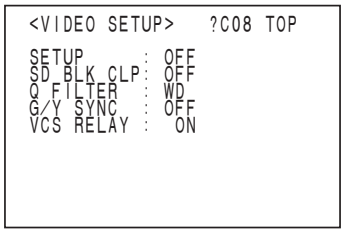
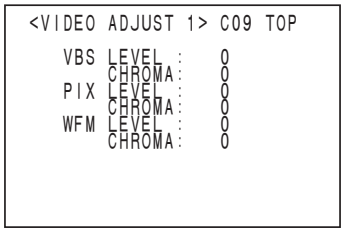
(2) Press DOWN to decrement the cursor to the left.



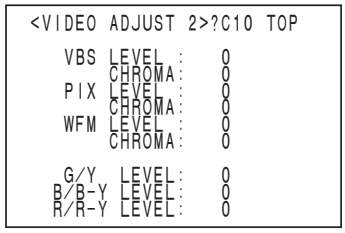
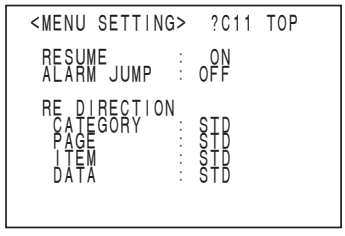
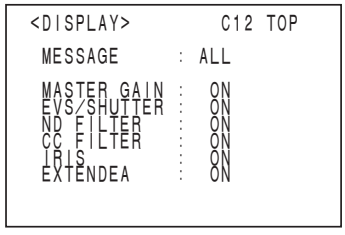
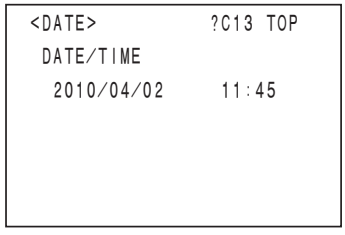
Note
The data entered in this page can be checked in the CCU configuration menu. On the <C00> COLOR BAR page, set “BAR-CHARA” to “ON”.

Page	Menu / Menu Image	Item	Setting	Description
C02	MONITOR1			
	<MONITOR 1> ?C02 TOP CHARACTER WHITE-LEVEL : 71.5% BLACK-LEVEL : 0.0% PIX CHARACTER WHITE-LEVEL : 75.0% BLACK-LEVEL : 0.0%	CHARACTER WHITE-LEVEL	0.0% to 107% [71.5%]	Sets white/black level for the character of the MONITOR output.
		BLACK-LEVEL	0.0% to 107% [0.0%]	
		PIX CHARACTER		Sets white/black level for the character of the PIX output.
		WHITE-LEVEL	0.0% to 107% [71.5%]	Displays only when the analog encoder board (HKCU1001/1003) is attached.
		BLACK-LEVEL	0.0% to 107% [0.0%]	
C03	MONITOR2			
	<MONITOR 2> ?C03 TOP LEVEL-GATE : OFF Y-LEVEL1 49%~ 61% -12 Y-LEVEL2 74%~ 108% -25 SKIN-GATE : OFF : 0 MODURATION : OFF : 0 MARKER : OFF : VISTA	LEVEL-GATE	[OFF]/1/2/1&2	Sets the mode for the CCU Y-LEVELGATE function.
		Y-LEVEL1	0% to [49%] to [64%] to 108% –99 to [–25] to +99	Sets upper and lower levels for Level-Gate 1 detection. Sets the Zebra levels added to the Level-Gate 1 detection width.
		Y-LEVEL2	0% to [74%] to [108%] to 108%	Sets upper and lower levels for Level-Gate 2 detection.
			–99 to [–25] to +99	Sets the Zebra levels added to the Level-Gate 2 detection width.
		SKIN GATE	[OFF]/ON	Turns ON/OFF Gate display for SkinTone Detail detection.
			–99 to [0] to +99	Sets SKIN GATE level.
		MODURATION	[OFF]/ON	Turns ON/OFF the mask function for outside the 4:3 monitor frame in the EDGE CROP mode.
			–99 to [0] to +99	Sets the image level of the mask portion
		MARKER	[OFF]/ON [4:3] 13:9 14:9 EU VISTA VISTA CINEMA FOLLOW DC	Turns ON/OFF the MARKER signal.
C04	I/F SETUP			
	<I/F SETUP> ?C04 TOP BOARD FRONT REAR SLOT1:DRX-5 => HIF-25 SLOT2:DRX-8 => HIF-57 SLOT3:DRX-5 => HIF-26 SLOT4:EN-159A=> VDA-64A SLOT5:EN-159B=> VDA-64B SLOT6:(NONE) => VDA-64C REAR PREVIEW : MOMENTARY	BOARD SLOT1 SLOT2 SLOT3 SLOT4 SLOT5 SLOT6	FRONT / REAR BOARD NAME DISPLAY BOARD NAME DISPLAY BOARD NAME DISPLAY BOARD NAME DISPLAY BOARD NAME DISPLAY BOARD NAME DISPLAY	Detects and displays the board attached to front/rear of Slots 1 to 6 (HDCU1000) or Slots 1 to 3 (HDCU1500).
		D-SUB15	(WFM-REMOTE)/ (MIC-REMOTE)	Displays the D-SUB 15-pin connector settings. (HDCU1500)
		CHARA/SYNC	(CHARACTER)/(SYNC)	Displays the CHARA/SYNC terminal output settings. (HDCU1500)
		REAR PREVIEW	[MOMENTARY]/TOGGLE	Selects the operation mode for the REAR PREVIEW output.
C05	MIC/AUDIO			
	<MIC/AUDIO> C05 TOP CHU MIC GAIN: (LOCAL) CH1 : 60dB CH2 : 60dB MIC OUT DELAY : 0FS ANALOG OUT : MIC1/2 AES/EBU OUT: MIC1/2 AUDIO PACKET: AUTO (900)	CHU MIC GAIN	(REMOTE/LOCAL)	Displays local/remote for the camera microphone amplifier settings.
		CH1	20/30/40/50/[60dB]	Sets amplifier gain for MIC-1 circuit.
		CH2	20/30/40/50/[60dB]	Sets amplifier gain for MIC-2 circuit.
		MIC OUT DELAY	0 to 3840Fs	Sets audio output phase for the camera microphone.
		ANALOG OUT	[MIC1/2]/AES/EBU	Selects the MIC OUT ANALOG output.
		AES/EBU OUT	[MIC1/2]/AES/EBU	Selects the MIC OUT DIGITAL output.
		AUDIO PACKET	[AUTO]/700/900	Selects the Audio Packet operation mode.

[ ]: The settings in the box are default values.

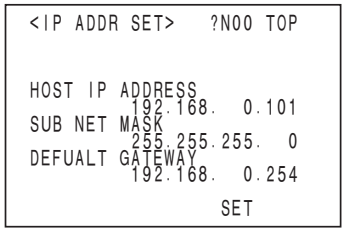
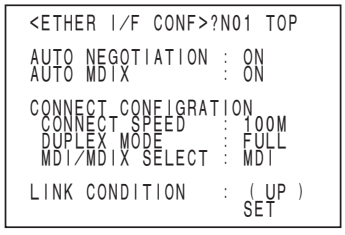
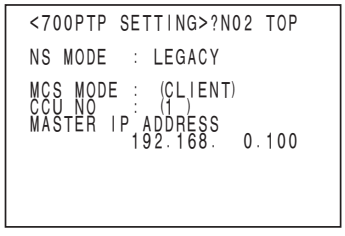
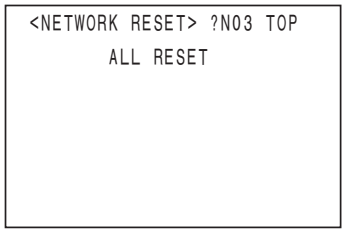
Page	Menu / Menu Image	Item	Setting	Description
C06	INCOM/PGM			
		FP-INCOM	(MIC ON/OFF/PGM ON) (PROD/ENG/PRIVATE)	Displays the FRONT INCOM MIC SW settings. Displays the FRONT INCOM line settings.
		PGM-MODE	SEP/MIX/[OFF]	Sets the PGM-MODE output.
		PGM-SEL	MIX/[PGM1]/PGM2	Selects the PGM-MODE.
		PGM1	–99 to [0] to +99	Sets PGM1 level.
		PGM2	–99 to [0] to +99	Sets PGM2 level.
		SIDE TONE	–99 to [0] to +99	Sets SIDE TONE level.
		INCOM-CH	1CH/[2CH]	Selects INCOME CHANNEL.
C07	PROMPT/TRUNK			
		PROMPTER	[1CH]/2CH	Sets line number for Prompter (Fixed to 1 channel for HDCU1500.)
		TRUNK SETTING CH IF	 1CH/[2CH] [232C]/422A	Sets line for TRUNK. Sets the channel number used. Sets the communication line mode. **Note** The AUX REMOTE function is enabled only for version A of the AVP board (board suffix -41 and later)
		TRANSMIT	AUTO/[HD-SDI]/ High Bitrate **Note** Change the setting from HD-SDI to AUTO after the software is upgraded to V3.00 and later.	Sets the mode of transmission with the camera. AUTO: Judges High Bitrate and HD-SDI automatically. HD-SDI: Transmission mode is always HD-SDI. High Bitrate: Transmission mode is always High Bitrate.
		CABLE	[CAMERA CABLE]/COAX	Sets the type of cable to be connected between the camera and the HDCU. CAMERA CABLE: Optical fiber cable. COAX: Coaxial cable
		AUX REMOTE	ENABLE/[DISABLE]	Sets whether to enable or disable the AUX REMOTE connector to be added on the rear panel of the HDCU1000.
C08	VIDEO SETUP			
		SETUP	[OFF]/ON	Turns ON/OFF the SETUP.
		SD BLK CLP	[OFF]/ON	Clips the Y signal of lower than 0% to be supplied from the SD SDI output connector, at 0%
		Q FILTER	[WD]/NA	Sets width of Q-Filter. (Only when the EN board is attached)
		G/Y SYNC	OFF/[ON]	Turns ON/OFF Gch-SYNC for the R/G/B component signal. (Only when the EN board is attached)
		VCS RELAY	OFF/[ON]	Sets PIX/WFM terminal output mode. (Only when the EN board is attached)
C09	VIDEO ADJUST (When using EN-159 board)			
		VBS LEVEL CHROMA	 –99 to [0] to +99 –99 to [0] to +99	Adjusts the VBS output video level.
		PIX LEVEL CHROMA	 –99 to [0] to +99 –99 to [0] to +99	Adjusts the PIX output video level.
		WFM LEVEL CHROMA	 –99 to [0] to +99 –99 to [0] to +99	Adjusts the WFM output video level.

[ ]: The settings in the box are default values.

Page	Menu / Menu Image	Item	Setting	Description
C10	VIDEO ADJUST 2 (When using two EN-159 boards))  	When two EN boards are used in the HDCU1000, the following video level adjustment menus are displayed as with the first board.		
		VBS		Adjusts the VBS output video level.
		LEVEL	–99 to [0] to +99	
		CHROMA	–99 to [0] to +99	
		PIX		Adjusts the PIX output video level.
		LEVEL	–99 to [0] to +99	
		CHROMA	–99 to [0] to +99	
		WFM		Adjusts the WFM output video level.
		LEVEL	–99 to [0] to +99	
		CHROMA	–99 to [0] to +99	
	When the VDA-64C board is used in the rear optional slot.	G/Y LEVEL	–99 to [0] to +99	Adjusts the G/Y output video level.
		B/B-Y LEVEL	–99 to [0] to +99	Adjusts the B/B-Y output video level.
		R/R-Y LEVEL	–99 to [0] to +99	Adjusts the R/R-Y output video level.
C11	MENU SETTING  	RESUME	OFF/[ON]	Turns ON/OFF the function that displays the page previously opened when you open the menu.
		ALARM JUMP	[OFF]/ON	Turns ON/OFF the function that displays pages related to current errors when you open the menu.
		RE DIRECTION		Sets the SW operating direction of the menu settings SW.
		CATEGORY	[STD]/RVS	
		PAGE	[STD]/RVS	
		ITEM	[STD]/RVS	
		DATA	[STD]/RVS	
C12	DISPLAY  	MESSAGE	[ALL]/OFF/WARNING	Turns ON/OFF SW settings and camera messages displayed on the VF display screen.
		MASTER GAIN	OFF/[ON]	
		EVS/SHUTTER	OFF/[ON]	
		ND FILTER	OFF/[ON]	
		CC FILTER	OFF/[ON]	
		IRIS	OFF/[ON]	
		EXTENDER	OFF/[ON]	
C13	DATE  	DATE/TIME	2010/04/02 11:45	Sets the clock (date, time) for the unit.

[ ]: The settings in the box are default values.

4-5. Network Setting Menu

Page	Menu / Menu Image	Item	Setting	Description
N00	IP ADDR SET			
		HOST IP ADDRESS	[0] to 255	Sets the host IP address.
		SUB NET MASK	[0] to 255	Sets the subnet mask.
		DEFAULT GATEWAY	[0] to 255	Sets the default gateway.
		SET		Reflects all the above settings.
N01	ETHER I/F CONF			
		AUTO NEGOTIATION	[ON]/OFF	Sets auto negotiation.
		AUTO MDIX	[ON]/OFF	Sets auto MDIX.
		CONNECT SPEED	[100M]/10M	Sets the connection speed.
		DUPLEX MODE	[FULL]/HALF	Sets the communication method.
		MDI/MDIX SELECT	[MDI]/MDIX	Sets the communication line.
		LINK CONDITION	(UP) / (DOWN)	Displays the network communication status.
		SET		Reflects all the above settings.
N02	700PTP SETTING			
		NS MODE	[LEGACY]/ BRIDGE/MCS	Sets the communication mode.
		MCS MODE	(CLIENT)	Displays that the CCU is the client.
		CCU NO	([blank], 1 to 96)	Displays the CCU number.
		MASTER IP ADDRESS	[0] to 255	Sets the IP address of the master device in the MCS mode.
N03	NETWORK RESET			
		ALL RESET		Returns the network-related information status to the factory default status.

[ ]: The settings in the box are default values.

Section 5
Spare Parts

5-1. Notes on Repair Parts

1. Safety Related Components Warning

WARNING

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

2. Standardization of Parts

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

3. Stock of Parts

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

4. Harness

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

5-1. 補修部品注意事項

1. 安全重要部品

⚠警告

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

2. 部品の共通化

ソニーから供給する補修用部品は，セットに使われているものと異なることがあります。
これは部品の共通化，改良等によるものです。

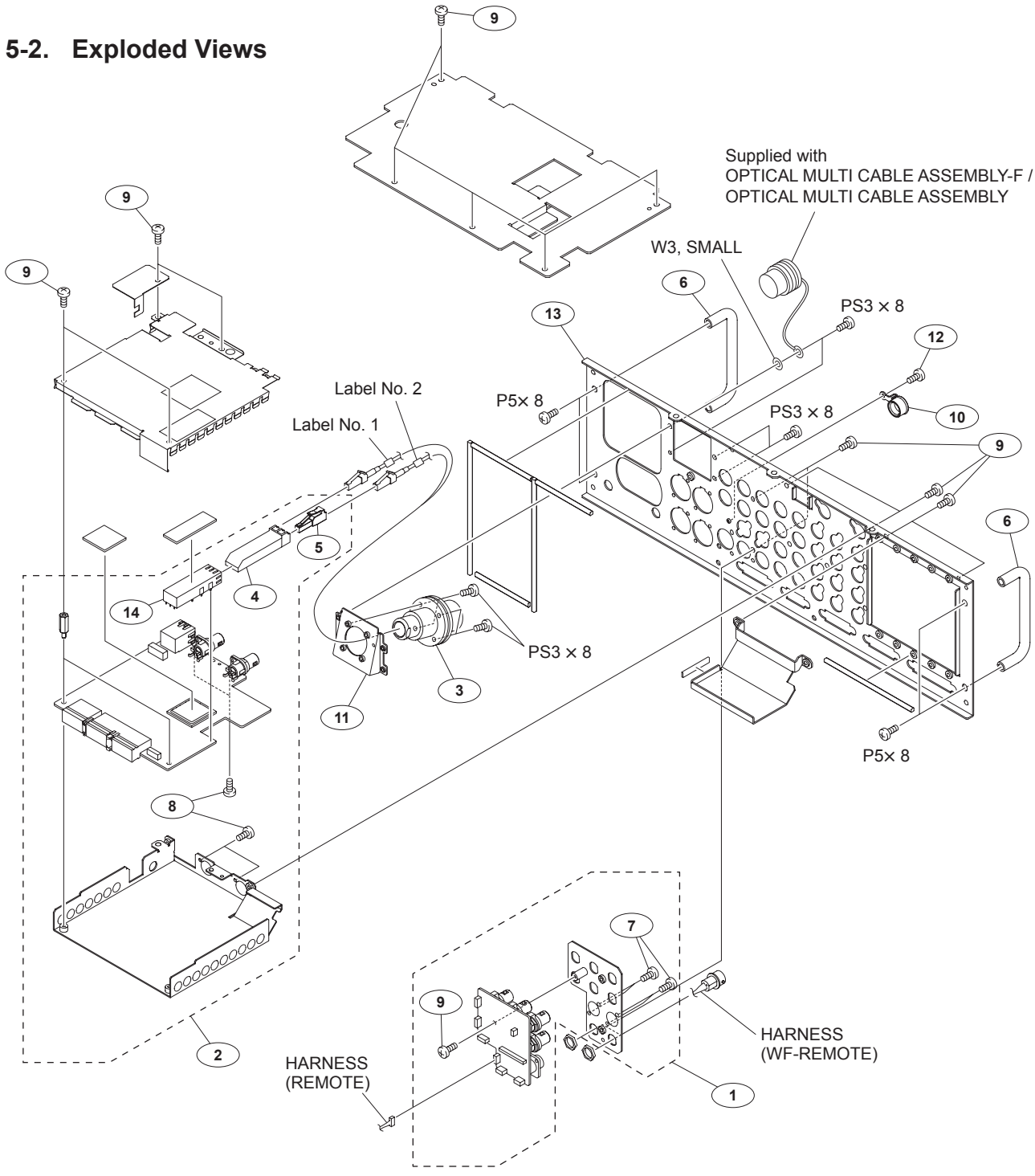
3. 部品の在庫

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

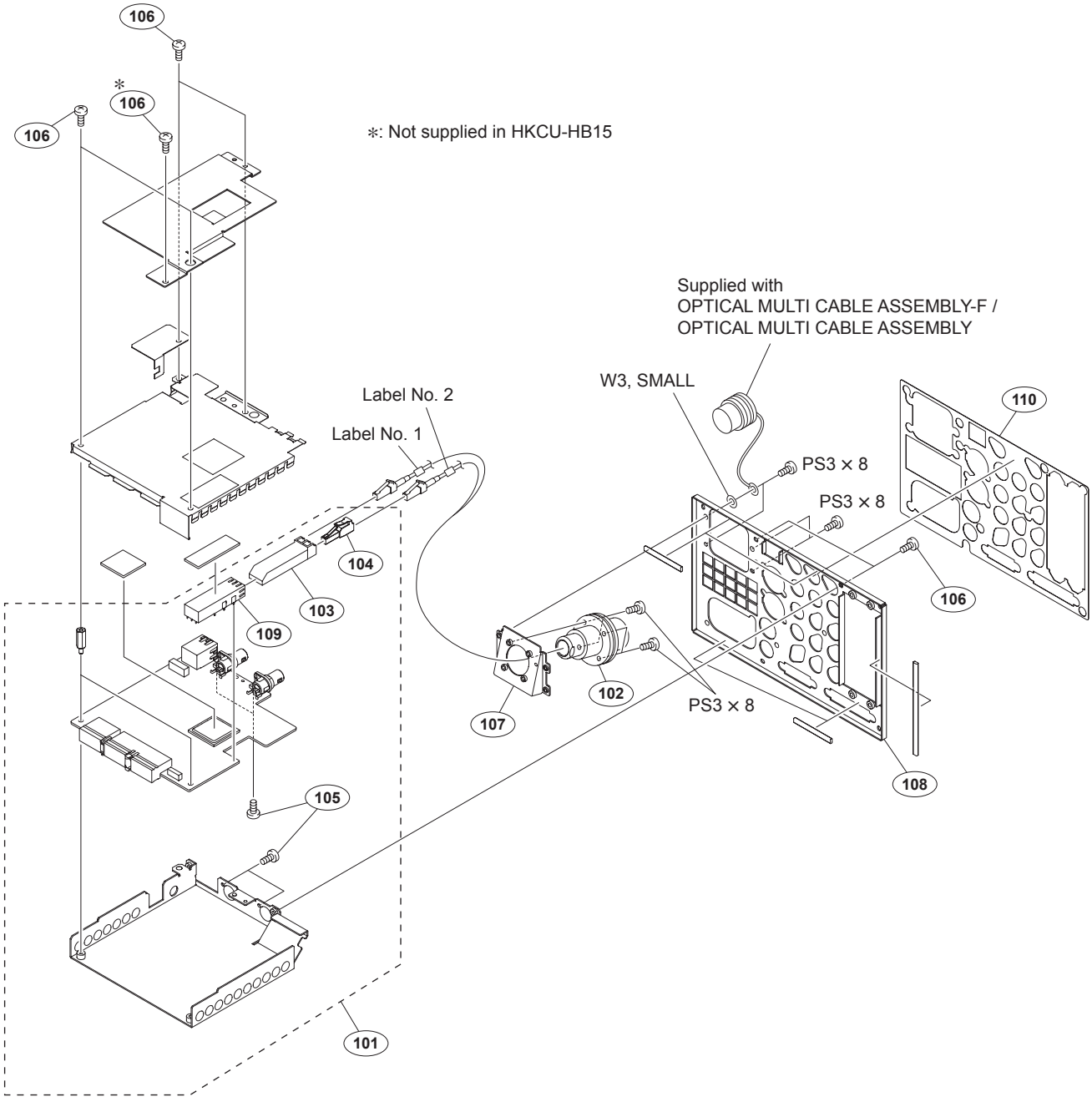
4. ハーネス

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

5-2. Exploded Views



No.	Part No.	SP	Description
1	A-1650-608-A	s	MOUNTED CIRCUIT BOARD, CN-2672GA
2	A-1764-668-A	s	MOUNTED CIRCUIT BOARD, SDP-16
3	⚠ 1-833-305-11	s	OPTICAL MULTI CABLE ASSEMBLY-F (Made by LEMO)
	⚠ 1-833-440-12	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	2-378-801-01	s	HANDLE
7	3-165-162-01	s	SCREW (+P2.6X5) (TYPE1)
8	3-364-941-01	s	SCREW (+B) (2.6X5), NYLOK
9	3-725-295-21	s	SCREW, (+) (B3)
10	3-868-657-03	s	CAP,BNC
11	3-872-863-02	s	FIBER CN HOLDER (LEMO) (Made by LEMO)
	3-986-571-01	s	FIBER CN HOLDER (TAJIMI) (Made by TAJIMI)
12	3-965-077-02	s	SCREW, SPECIAL (M2)
13	4-185-802-02	s	REAR PANEL (W10)
14	4-669-854-01	s	CAGE, TOP
	7-682-174-01	s	SCREW +P 5X8
	7-682-648-01	s	SCREW +PS 3X8
	7-688-003-03	s	W 3, SMALL



No.	Part No.	SP	Description
101	A-1764-668-A	s	MOUNTED CIRCUIT BOARD, SDP-16
102	⚠ 1-837-859-11	s	OPTICAL MULTI CABLE ASSEMBLY-F (Made by LEMO)
	⚠ 1-838-045-11	s	OPTICAL MULTI CABLE ASSEMBLY (Made by TAJIMI)
103	⚠ 1-840-495-11	s	MODULE, OPTICAL (SFP)
104	1-842-219-11	s	OPTICAL CONNECTOR (ATTENUATOR)
105	3-364-941-01	s	SCREW (+B) (2.6X5), NYLOK

No.	Part No.	SP	Description
106	3-725-295-21	s	SCREW, (+) (B3)
107	3-872-863-02	s	FIBER CN HOLDER (LEMO) (Made by LEMO)
	3-986-571-01	s	FIBER CN HOLDER (TAJIMI) (Made by TAJIMI)
108	4-185-763-02	s	REAR PANEL (W15)
109	4-669-854-01	s	CAGE, TOP
110	4-185-764-02	s	SHEET, REAR PANEL
	7-682-648-01	s	SCREW +PS 3X8
	7-688-003-03	s	W 3, SMALL

5-3. Electrical Parts List

CN-2672GA BOARD (HKCU-HB10)

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-1650-608-A	s	MOUNTED CIRCUIT BOARD, CN-2672GA
4pcs	3-165-162-01	s	SCREW (+P2.6X5) (TYPE1)
1pc	3-725-295-21	s	SCREW, (+) (B3)
1.15pcs	7-640-005-23	s	SOLDER (F3M705,D0.8) 1.0KG
C1	1-164-937-81	s	CAP, CHIPCERAMIC 1000PF B 1005
C2	1-164-937-81	s	CAP, CHIPCERAMIC 1000PF B 1005
C3	1-164-937-81	s	CAP, CHIPCERAMIC 1000PF B 1005
C4	1-164-937-81	s	CAP, CHIPCERAMIC 1000PF B 1005
CN1	1-561-336-41	s	CONNECTOR, COAXIAL
CN2	1-561-336-41	s	CONNECTOR, COAXIAL
CN3	1-561-336-41	s	CONNECTOR, COAXIAL
CN4	1-561-336-41	s	CONNECTOR, COAXIAL
CN5	1-561-336-41	s	CONNECTOR, COAXIAL
CN6	1-561-336-41	s	CONNECTOR, COAXIAL
CN7	1-766-696-11	o	CONNECTOR, ROUND TYPE 8P
CN8	1-766-696-11	o	CONNECTOR, ROUND TYPE 8P
CN9	1-778-647-31	s	CONNECTOR, FFC/FPC(ZIF) ST 15P
CN10	1-764-079-21	s	PIN, CONNECTOR (PC BOARD) 4P
CN11	1-764-079-21	s	PIN, CONNECTOR (PC BOARD) 4P
CN12	1-785-125-21	s	CONNECTOR 6P
CN13	1-785-125-21	s	CONNECTOR 6P
CN14	1-778-652-31	s	CONNECTOR, FFC (ZIF) 50P
CN15	1-695-480-21	o	PIN, CONNECTOR (PC BOARD) 2P
CN18	1-695-207-21	o	PIN, CONNECTOR (PC BOARD) 6P
FL1	1-239-897-31	s	FILTER, EMI (SMD)
FL2	1-239-897-31	s	FILTER, EMI (SMD)
FL3	1-239-897-31	s	FILTER, EMI (SMD)
FL4	1-239-897-31	s	FILTER, EMI (SMD)
FL5	1-239-897-31	s	FILTER, EMI (SMD)
FL6	1-239-897-31	s	FILTER, EMI (SMD)
FL7	1-239-897-31	s	FILTER, EMI (SMD)
FL8	1-239-897-31	s	FILTER, EMI (SMD)
FL9	1-239-897-31	s	FILTER, EMI (SMD)
FL10	1-239-897-31	s	FILTER, EMI (SMD)
FL11	1-239-897-31	s	FILTER, EMI (SMD)
FL12	1-239-897-31	s	FILTER, EMI (SMD)
JC1	1-216-864-91	s	CONDUCTOR, CHIP (1608)
R2	1-220-870-81	s	RES, CHIP 10 (1005)
R3	1-220-803-81	s	RES, CHIP 4.7
R4	1-220-803-81	s	RES, CHIP 4.7
VDR1	1-804-499-21	s	VARISTOR, CHIP (1608)

DRX-8 BOARD (HKCU2005)

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-1764-669-A	s	MOUNTED CIRCUIT BOARD, DRX-8
4pcs	7-682-947-01	s	SCREW +PSW 3X6
C1	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C2	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C3	1-100-055-21	s	CAP, CHIP CERAMIC 22MF B 3225
C4	1-100-055-21	s	CAP, CHIP CERAMIC 22MF B 3225
C5	1-116-346-11	s	CAP, ELECT 47MF 105
C6	1-116-346-11	s	CAP, ELECT 47MF 105
C7	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C8	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C9	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C10	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C13	1-164-874-81	s	CAP,CHIP CERAMIC 100PF CH 1005
C14	1-164-874-81	s	CAP,CHIP CERAMIC 100PF CH 1005
C17	1-164-874-81	s	CAP,CHIP CERAMIC 100PF CH 1005
C18	1-164-874-81	s	CAP,CHIP CERAMIC 100PF CH 1005
C19	1-112-298-91	o	CAP, CERAMIC 1MF B (1608)
C20	1-164-874-81	s	CAP,CHIP CERAMIC 100PF CH 1005
C21	1-112-298-91	o	CAP, CERAMIC 1MF B (1608)
C22	1-112-298-91	o	CAP, CERAMIC 1MF B (1608)
C23	1-112-298-91	o	CAP, CERAMIC 1MF B (1608)
C24	1-164-874-81	s	CAP,CHIP CERAMIC 100PF CH 1005
C25	1-164-874-81	s	CAP,CHIP CERAMIC 100PF CH 1005
C26	1-112-298-91	o	CAP, CERAMIC 1MF B (1608)
C27	1-112-298-91	o	CAP, CERAMIC 1MF B (1608)
C28	1-112-298-91	o	CAP, CERAMIC 1MF B (1608)
C29	1-165-989-91	s	CAP, CERAMIC 10MF (2012)
C30	1-165-989-91	s	CAP, CERAMIC 10MF (2012)
C31	1-116-346-11	s	CAP, ELECT 47MF 105
C32	1-116-346-11	s	CAP, ELECT 47MF 105
C33	1-116-346-11	s	CAP, ELECT 47MF 105
C34	1-116-346-11	s	CAP, ELECT 47MF 105
C35	1-116-346-11	s	CAP, ELECT 47MF 105
C36	1-116-346-11	s	CAP, ELECT 47MF 105
C37	1-100-055-21	s	CAP, CHIP CERAMIC 22MF B 3225
C38	1-100-055-21	s	CAP, CHIP CERAMIC 22MF B 3225
C40	1-119-923-81	s	CAP, CERAMIC 0.047MF B 1005
C41	1-119-923-81	s	CAP, CERAMIC 0.047MF B 1005
C43	1-100-055-21	s	CAP, CHIP CERAMIC 22MF B 3225
C44	1-100-055-21	s	CAP, CHIP CERAMIC 22MF B 3225
C46	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C47	1-100-055-21	s	CAP, CHIP CERAMIC 22MF B 3225
C48	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C49	1-100-055-21	s	CAP, CHIP CERAMIC 22MF B 3225
C52	1-119-923-81	s	CAP, CERAMIC 0.047MF B 1005
C53	1-119-923-81	s	CAP, CERAMIC 0.047MF B 1005
C55	1-112-015-91	s	CAP, CHIP CERAMIC 47MF B 3225
C56	1-112-015-91	s	CAP, CHIP CERAMIC 47MF B 3225
C58	1-112-015-91	s	CAP, CHIP CERAMIC 47MF B 3225
C59	1-112-015-91	s	CAP, CHIP CERAMIC 47MF B 3225
C61	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C62	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C63	1-112-015-91	s	CAP, CHIP CERAMIC 47MF B 3225
C65	1-107-819-81	s	CAP,CHIP CERAMIC 22000PF B1005
C66	1-164-936-81	s	CAP, CHIP CERAMIC 680PF B 1005
C67	1-107-819-81	s	CAP,CHIP CERAMIC 22000PF B1005
C68	1-164-936-81	s	CAP, CHIP CERAMIC 680PF B 1005
C71	1-165-989-91	s	CAP, CERAMIC 10MF (2012)

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Ref. No. or Q'ty	Part No.	SP	Description
C72	1-165-989-91	s	CAP, CERAMIC 10MF (2012)
C74	1-100-055-21	s	CAP, CHIP CERAMIC 22MF B 3225
C75	1-119-923-81	s	CAP, CERAMIC 0.047MF B 1005
C76	1-100-055-21	s	CAP, CHIP CERAMIC 22MF B 3225
C77	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C78	1-100-055-21	s	CAP, CHIP CERAMIC 22MF B 3225
C79	1-119-923-81	s	CAP, CERAMIC 0.047MF B 1005
C80	1-112-015-91	s	CAP, CHIP CERAMIC 47MF B 3225
C81	1-112-015-91	s	CAP, CHIP CERAMIC 47MF B 3225
C82	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C83	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C84	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C85	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C86	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C87	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C88	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C89	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C90	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C91	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C92	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C93	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C94	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C95	1-107-819-81	s	CAP,CHIP CERAMIC 22000PF B1005
C96	1-164-936-81	s	CAP, CHIP CERAMIC 680PF B 1005
C97	1-165-989-91	s	CAP, CERAMIC 10MF (2012)
C101	1-112-015-91	s	CAP, CHIP CERAMIC 47MF B 3225
C102	1-165-989-91	s	CAP, CERAMIC 10MF (2012)
C103	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C104	1-164-874-81	s	CAP,CHIP CERAMIC 100PF CH 1005
C106	1-112-933-11	s	CAP, NIOBIUM ELECT 47MF
C107	1-112-933-11	s	CAP, NIOBIUM ELECT 47MF
C108	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C109	1-112-933-11	s	CAP, NIOBIUM ELECT 47MF
C110	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C111	1-112-933-11	s	CAP, NIOBIUM ELECT 47MF
C112	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C113	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C114	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C115	1-112-933-11	s	CAP, NIOBIUM ELECT 47MF
C116	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C117	1-112-933-11	s	CAP, NIOBIUM ELECT 47MF
C118	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C119	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C120	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C121	1-112-746-91	s	CAP, CERAMIC 4.7MF B (1608)
C122	1-112-746-91	s	CAP, CERAMIC 4.7MF B (1608)
C123	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C124	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C125	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C126	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C127	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C128	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C151	1-112-015-91	s	CAP, CHIP CERAMIC 47MF B 3225
C152	1-165-989-91	s	CAP, CERAMIC 10MF (2012)
C153	1-112-933-11	s	CAP, NIOBIUM ELECT 47MF
C154	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C155	1-164-874-81	s	CAP,CHIP CERAMIC 100PF CH 1005
C157	1-112-933-11	s	CAP, NIOBIUM ELECT 47MF
C158	1-112-933-11	s	CAP, NIOBIUM ELECT 47MF

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Ref. No. or Q'ty	Part No.	SP	Description
C159	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C160	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C161	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C162	1-112-933-11	s	CAP, NIOBIUM ELECT 47MF
C163	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C164	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C165	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C166	1-112-933-11	s	CAP, NIOBIUM ELECT 47MF
C167	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C168	1-112-933-11	s	CAP, NIOBIUM ELECT 47MF
C169	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C171	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C172	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C173	1-112-746-91	s	CAP, CERAMIC 4.7MF B (1608)
C174	1-112-746-91	s	CAP, CERAMIC 4.7MF B (1608)
C176	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C177	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C178	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C180	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C181	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C201	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C202	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C203	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C204	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C205	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C206	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C207	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C208	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C209	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	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C215	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C216	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C217	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C218	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C220	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C221	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C222	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C223	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C224	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C300	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C301	1-112-933-11	s	CAP, NIOBIUM ELECT 47MF
C302	1-112-933-11	s	CAP, NIOBIUM ELECT 47MF
C303	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C304	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C305	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C306	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C307	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C308	1-119-923-81	s	CAP, CERAMIC 0.047MF B 1005
C309	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C310	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C311	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C312	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C313	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C314	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C315	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C316	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C317	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005

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Ref. No. or Q'ty	Part No.	SP	Description
C318	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C319	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C320	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C321	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C322	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C323	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C324	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C325	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C326	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C327	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C328	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C329	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C330	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C331	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C332	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C333	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C334	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C335	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C336	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C337	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C338	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C339	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C340	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C341	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C342	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C343	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C344	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C345	1-112-933-11	s	CAP, NIOBIUM ELECT 47MF
C346	1-112-933-11	s	CAP, NIOBIUM ELECT 47MF
C347	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C348	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C349	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C350	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C351	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C352	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C353	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C354	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C355	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C356	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C357	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C358	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C359	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C360	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C361	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C362	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C363	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C364	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C365	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C366	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C367	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C368	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C369	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C370	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C371	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C372	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C373	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C374	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C375	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C376	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005

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Ref. No. or Q'ty	Part No.	SP	Description
C377	1-112-933-11	s	CAP, NIOBIUM ELECT 47MF
C378	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C379	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C380	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C381	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C382	1-112-933-11	s	CAP, NIOBIUM ELECT 47MF
C383	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C384	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C385	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C386	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C387	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C388	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C389	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C390	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C391	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C392	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C393	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C394	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C395	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C396	1-112-015-91	s	CAP, CHIP CERAMIC 47MF B 3225
C397	1-112-933-11	s	CAP, NIOBIUM ELECT 47MF
C398	1-112-933-11	s	CAP, NIOBIUM ELECT 47MF
C399	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C401	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C402	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C403	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C404	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C405	1-114-582-91	o	CAP, CERAMIC 0.1MF 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	1-112-933-11	s	CAP, NIOBIUM ELECT 47MF
C409	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C410	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C411	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C412	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C413	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C414	1-112-933-11	s	CAP, NIOBIUM ELECT 47MF
C415	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C416	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C417	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C418	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C419	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C420	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C421	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C422	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C423	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C424	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C425	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C426	1-112-933-11	s	CAP, NIOBIUM ELECT 47MF
C427	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C428	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C429	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C430	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C431	1-112-015-91	s	CAP, CHIP CERAMIC 47MF B 3225
C432	1-165-989-91	s	CAP, CERAMIC 10MF (2012)
C502	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C503	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C504	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C505	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005

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Ref. No. or Q'ty	Part No.	SP	Description
C506	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C507	1-112-933-11	s	CAP, NIOBIUM ELECT 47MF
C508	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C509	1-112-933-11	s	CAP, NIOBIUM ELECT 47MF
C510	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C511	1-165-989-91	s	CAP, CERAMIC 10MF (2012)
C512	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C513	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C514	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C516	1-165-989-91	s	CAP, CERAMIC 10MF (2012)
C517	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C518	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C519	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C520	1-165-989-91	s	CAP, CERAMIC 10MF (2012)
C521	1-165-989-91	s	CAP, CERAMIC 10MF (2012)
C522	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C525	1-164-850-81	s	CAP, CHIP CERAMIC 10PF CH 1005
C526	1-112-933-11	s	CAP, NIOBIUM ELECT 47MF
C527	1-164-850-81	s	CAP, CHIP CERAMIC 10PF CH 1005
C528	1-112-933-11	s	CAP, NIOBIUM ELECT 47MF
C529	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C530	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C531	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C532	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C533	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C536	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C537	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C538	1-112-933-11	s	CAP, NIOBIUM ELECT 47MF
C539	1-112-933-11	s	CAP, NIOBIUM ELECT 47MF
C540	1-164-850-81	s	CAP, CHIP CERAMIC 10PF CH 1005
C541	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C542	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C543	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C544	1-164-858-81	s	CAP, CHIP CERAMIC 22PF CH 1005
C545	1-164-858-81	s	CAP, CHIP CERAMIC 22PF CH 1005
C548	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C549	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C551	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C555	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C559	1-112-746-91	s	CAP, CERAMIC 4.7MF B (1608)
C601	1-112-933-11	s	CAP, NIOBIUM ELECT 47MF
C602	1-112-933-11	s	CAP, NIOBIUM ELECT 47MF
C603	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C604	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C605	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C606	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C607	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C608	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C609	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C610	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C611	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C612	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C613	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C614	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C615	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C616	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C617	1-112-933-11	s	CAP, NIOBIUM ELECT 47MF
C618	1-112-933-11	s	CAP, NIOBIUM ELECT 47MF
C619	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005

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Ref. No. or Q'ty	Part No.	SP	Description
C620	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C621	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C622	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C623	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C624	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C625	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C626	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C627	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C628	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C629	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C630	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C631	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C632	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C633	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C634	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C635	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C636	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C650	1-112-933-11	s	CAP, NIOBIUM ELECT 47MF
C651	1-112-933-11	s	CAP, NIOBIUM ELECT 47MF
C652	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C653	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C654	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C655	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C656	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C657	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C658	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C659	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C660	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C661	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C662	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C663	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C664	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C665	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C666	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C667	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C668	1-112-933-11	s	CAP, NIOBIUM ELECT 47MF
C669	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C670	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C671	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C672	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C673	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C674	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C675	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C676	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C677	1-112-933-11	s	CAP, NIOBIUM ELECT 47MF
C678	1-112-933-11	s	CAP, NIOBIUM ELECT 47MF
C679	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C680	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C681	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C682	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C683	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C684	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C685	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C686	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C687	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C688	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C689	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C690	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C691	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005

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Ref. No. or Q'ty	Part No.	SP	Description
C692	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C693	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C694	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C730	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C757	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C758	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C759	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C941	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C942	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C943	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C944	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C945	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C946	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C947	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C948	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C949	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C950	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C951	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C952	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C953	1-112-746-91	s	CAP, CERAMIC 4.7MF B (1608)
C954	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C955	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C956	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C957	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C958	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C959	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C960	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C961	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C962	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C963	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C964	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C965	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C966	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C967	1-112-933-11	s	CAP, NIOBIUM ELECT 47MF
C968	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C969	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C970	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C971	1-112-933-11	s	CAP, NIOBIUM ELECT 47MF
C972	1-112-933-11	s	CAP, NIOBIUM ELECT 47MF
C973	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C974	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C975	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C976	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C977	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C978	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C979	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C980	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C981	1-112-933-11	s	CAP, NIOBIUM ELECT 47MF
C982	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C983	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C984	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C985	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C986	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C987	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C988	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C989	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C990	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C991	1-112-933-11	s	CAP, NIOBIUM ELECT 47MF
C992	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005

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Ref. No. or Q'ty	Part No.	SP	Description
C993	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C994	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C995	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C996	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C997	1-112-933-11	s	CAP, NIOBIUM ELECT 47MF
C998	1-112-933-11	s	CAP, NIOBIUM ELECT 47MF
CN3	1-770-627-21	s	PIN, CONNECTOR 10P
D1	8-719-083-60	s	DI UDZSUSTE-174.7B
D2	8-719-083-60	s	DI UDZSUSTE-174.7B
D3	8-719-074-31	s	DIODE CL-196YG-CD-T
D201	8-719-074-31	s	DIODE CL-196YG-CD-T
D202	8-719-074-31	s	DIODE CL-196YG-CD-T
D203	8-719-074-31	s	DIODE CL-196YG-CD-T
D204	6-501-257-01	s	DIODE CL-197TLY-CD-T
D205	6-501-257-01	s	DIODE CL-197TLY-CD-T
D206	8-719-074-31	s	DIODE CL-196YG-CD-T
D207	8-719-074-31	s	DIODE CL-196YG-CD-T
D208	8-719-074-31	s	DIODE CL-196YG-CD-T
D209	8-719-074-31	s	DIODE CL-196YG-CD-T
D210	8-719-074-31	s	DIODE CL-196YG-CD-T
D450	8-719-082-45	s	DIODE RB715W-TL
D501	6-500-697-01	s	DI UDZSUSTE-173.3B
D701	8-719-082-45	s	DIODE RB715W-TL
D702	8-719-082-45	s	DIODE RB715W-TL
D703	8-719-082-45	s	DIODE RB715W-TL
D704	8-719-082-45	s	DIODE RB715W-TL
D705	8-719-082-45	s	DIODE RB715W-TL
D706	8-719-082-45	s	DIODE RB715W-TL
E1	1-535-877-22	s	CHIP, CHECKER
E4	1-535-877-22	s	CHIP, CHECKER
E5	1-535-877-22	s	CHIP, CHECKER
E6	1-535-877-22	s	CHIP, CHECKER
E8	1-535-877-22	s	CHIP, CHECKER
FB1	1-481-195-21	s	FERRITE, EMI (SMD)
FB2	1-481-195-21	s	FERRITE, EMI (SMD)
FB3	1-481-195-21	s	FERRITE, EMI (SMD)
FB4	1-481-195-21	s	FERRITE, EMI (SMD)
FB51	1-481-195-21	s	FERRITE, EMI (SMD)
FB52	1-481-195-21	s	FERRITE, EMI (SMD)
FB101	1-481-195-21	s	FERRITE, EMI (SMD)
FB102	1-469-094-21	s	FERRITE, EMI (SMD) (1608)
FB103	1-481-195-21	s	FERRITE, EMI (SMD)
FB105	1-481-195-21	s	FERRITE, EMI (SMD)
FB106	1-481-195-21	s	FERRITE, EMI (SMD)
FB107	1-481-195-21	s	FERRITE, EMI (SMD)
FB108	1-481-195-21	s	FERRITE, EMI (SMD)
FB109	1-481-195-21	s	FERRITE, EMI (SMD)
FB110	1-481-195-21	s	FERRITE, EMI (SMD)
FB152	1-469-094-21	s	FERRITE, EMI (SMD) (1608)
FB153	1-481-195-21	s	FERRITE, EMI (SMD)
FB154	1-481-195-21	s	FERRITE, EMI (SMD)
FB155	1-481-195-21	s	FERRITE, EMI (SMD)
FB156	1-481-195-21	s	FERRITE, EMI (SMD)
FB157	1-481-195-21	s	FERRITE, EMI (SMD)
FB158	1-481-195-21	s	FERRITE, EMI (SMD)
FB159	1-481-195-21	s	FERRITE, EMI (SMD)
FB160	1-481-195-21	s	FERRITE, EMI (SMD)

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Ref. No. or Q'ty	Part No.	SP	Description
FB301	1-481-195-21	s	FERRITE, EMI (SMD)
FB302	1-481-195-21	s	FERRITE, EMI (SMD)
FB303	1-481-195-21	s	FERRITE, EMI (SMD)
FB304	1-481-195-21	s	FERRITE, EMI (SMD)
FB305	1-481-195-21	s	FERRITE, EMI (SMD)
FB306	1-481-195-21	s	FERRITE, EMI (SMD)
FB307	1-481-195-21	s	FERRITE, EMI (SMD)
FB309	1-481-195-21	s	FERRITE, EMI (SMD)
FB401	1-481-195-21	s	FERRITE, EMI (SMD)
FB501	1-481-195-21	s	FERRITE, EMI (SMD)
FB502	1-481-195-21	s	FERRITE, EMI (SMD)
FB503	1-481-195-21	s	FERRITE, EMI (SMD)
FB504	1-481-195-21	s	FERRITE, EMI (SMD)
FB505	1-481-195-21	s	FERRITE, EMI (SMD)
FB506	1-481-195-21	s	FERRITE, EMI (SMD)
FB507	1-481-195-21	s	FERRITE, EMI (SMD)
FL501	1-233-891-21	s	FILTER, LOW PASS
IC1	8-759-327-01	s	IC NJM062V(TE2)
IC2	6-704-976-01	s	IC ADR381ARTZ-REEL7
IC3	8-759-327-01	s	IC NJM062V(TE2)
IC4	6-701-572-01	s	IC TPS54610PWPR
IC5	6-701-572-01	s	IC TPS54610PWPR
IC7	8-759-338-95	s	IC NJM2903V(TE2)
IC51	6-701-572-01	s	IC TPS54610PWPR
IC81	8-759-592-42	s	IC TC7SZ00FU(TE85R)
IC102	6-712-135-01	o	IC R1173H001D-T1-F
IC103	8-759-592-47	s	IC TC7SZ08FU(TE85R)
IC105	8-759-592-47	s	IC TC7SZ08FU(TE85R)
IC152	6-712-135-01	o	IC R1173H001D-T1-F
IC154	8-759-592-47	s	IC TC7SZ08FU(TE85R)
IC155	8-759-592-47	s	IC TC7SZ08FU(TE85R)
IC201	6-707-875-01	s	IC TC74VHC245FT(EKJ)
IC202	6-707-875-01	s	IC TC74VHC245FT(EKJ)
IC203	6-707-875-01	s	IC TC74VHC245FT(EKJ)
IC204	6-704-099-01	s	IC TC7WZ08FK(TE85R)
IC205	6-707-875-01	s	IC TC74VHC245FT(EKJ)
IC206	6-704-099-01	s	IC TC7WZ08FK(TE85R)
IC207	6-704-099-01	s	IC TC7WZ08FK(TE85R)
IC208	6-704-099-01	s	IC TC7WZ08FK(TE85R)
IC209	6-704-099-01	s	IC TC7WZ08FK(TE85R)
IC210	8-759-592-48	s	IC TC7SZ32FU(TE85R)
IC211	8-759-592-48	s	IC TC7SZ32FU(TE85R)
IC212	8-759-592-48	s	IC TC7SZ32FU(TE85R)
IC213	8-759-592-48	s	IC TC7SZ32FU(TE85R)
IC226	8-759-592-47	s	IC TC7SZ08FU(TE85R)
IC227	8-759-592-47	s	IC TC7SZ08FU(TE85R)
IC228	6-707-845-01	s	IC TC74LCX138FT(EKJ)
IC229	8-759-698-31	s	IC TC7WH74FK(TE85R)
IC230	8-759-592-48	s	IC TC7SZ32FU(TE85R)
IC231	8-759-592-47	s	IC TC7SZ08FU(TE85R)
IC232	8-759-592-42	s	IC TC7SZ00FU(TE85R)
IC233	8-759-592-43	s	IC TC7SZ02FU(TE85R)
IC302	6-701-874-01	s	IC IDT71V016SA15PHG-TL
IC303	8-759-592-42	s	IC TC7SZ00FU(TE85R)
IC304	6-700-804-01	s	IC SN74LVC574APWR
IC305	6-700-804-01	s	IC SN74LVC574APWR
IC306	6-700-804-01	s	IC SN74LVC574APWR

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Ref. No. or Q'ty	Part No.	SP	Description
IC307	8-759-592-42	s	IC TC7SZ00FU(TE85R)
IC308	6-712-135-01	o	IC R1173H001D-T1-F
IC310	6-702-879-01	s	IC R3112N281A-TR-FA
IC312	6-713-878-01	s	IC EPCS64SI16N
IC313	8-759-592-47	s	IC TC7SZ08FU(TE85R)
IC314	8-759-592-47	s	IC TC7SZ08FU(TE85R)
IC315	8-759-592-47	s	IC TC7SZ08FU(TE85R)
IC402	8-759-592-42	s	IC TC7SZ00FU(TE85R)
IC403	8-759-592-42	s	IC TC7SZ00FU(TE85R)
IC404	6-700-804-01	s	IC SN74LVC574APWR
IC405	6-700-804-01	s	IC SN74LVC574APWR
IC406	6-700-804-01	s	IC SN74LVC574APWR
IC407	6-700-804-01	s	IC SN74LVC574APWR
IC408	6-700-804-01	s	IC SN74LVC574APWR
IC409	6-700-804-01	s	IC SN74LVC574APWR
IC410	6-712-135-01	o	IC R1173H001D-T1-F
IC411	8-759-592-42	s	IC TC7SZ00FU(TE85R)
IC501	6-708-538-01	s	IC CDCVF2510APWR
IC502	8-759-675-47	s	IC SN74LVC04APWR
IC503	6-707-875-01	s	IC TC74VHC245FT(EKJ)
IC504	6-704-030-01	s	IC TC7SA04FU(TE85R)
IC505	6-706-471-01	s	IC THS5661AIPWR
IC506	8-759-561-46	s	IC AD8014ARTZ-REEL7
IC507	6-704-030-01	s	IC TC7SA04FU(TE85R)
IC512	6-704-030-01	s	IC TC7SA04FU(TE85R)
IC513	6-709-647-01	s	IC TLC2932AIPWR
IC514	8-759-669-66	s	IC TLC272CPWR-12
IC515	6-704-030-01	s	IC TC7SA04FU(TE85R)
IC516	6-704-030-01	s	IC TC7SA04FU(TE85R)
IC530	6-706-484-01	s	IC TC7SH04FU(T5RSOYJF)
IC531	6-704-099-01	s	IC TC7WZ08FK(TE85R)
IC701	6-702-787-01	s	IC UPD6467GR-525-E2
IC702	6-702-787-01	s	IC UPD6467GR-525-E2
IC703	6-702-787-01	s	IC UPD6467GR-525-E2
IC710	8-759-327-01	s	IC NJM062V(TE2)
IC730	8-759-592-47	s	IC TC7SZ08FU(TE85R)
JC1	1-218-990-81	s	CONDUCTOR, CHIP (1005)
L1	1-416-344-21	s	COIL, CHOKE 10UH
L2	1-416-344-21	s	COIL, CHOKE 10UH
L4	1-416-948-21	s	COIL, CHOKE (SMD) 10UH
L6	1-416-344-21	s	COIL, CHOKE 10UH
L7	1-416-344-21	s	COIL, CHOKE 10UH
L8	1-416-344-21	s	COIL, CHOKE 10UH
L101	1-414-398-41	s	INDUCTOR (SMD) 10.0UH
L102	1-414-398-41	s	INDUCTOR (SMD) 10.0UH
L152	1-414-398-41	s	INDUCTOR (SMD) 10.0UH
L153	1-414-398-41	s	INDUCTOR (SMD) 10.0UH
L301	1-414-392-41	s	INDUCTOR (SMD) 1.0UH
L302	1-414-392-41	s	INDUCTOR (SMD) 1.0UH
L303	1-414-392-41	s	INDUCTOR (SMD) 1.0UH
L304	1-414-392-41	s	INDUCTOR (SMD) 1.0UH
L305	1-414-392-41	s	INDUCTOR (SMD) 1.0UH
L306	1-414-392-41	s	INDUCTOR (SMD) 1.0UH
L307	1-414-392-41	s	INDUCTOR (SMD) 1.0UH
L308	1-414-392-41	s	INDUCTOR (SMD) 1.0UH
L309	1-414-392-41	s	INDUCTOR (SMD) 1.0UH
L310	1-414-392-41	s	INDUCTOR (SMD) 1.0UH

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Ref. No. or Q'ty	Part No.	SP	Description
L311	1-414-392-41	s	INDUCTOR (SMD) 1.0UH
L312	1-414-392-41	s	INDUCTOR (SMD) 1.0UH
L401	1-414-392-41	s	INDUCTOR (SMD) 1.0UH
L402	1-414-392-41	s	INDUCTOR (SMD) 1.0UH
L403	1-414-392-41	s	INDUCTOR (SMD) 1.0UH
L501	1-414-398-41	s	INDUCTOR (SMD) 10.0UH
L503	1-414-398-41	s	INDUCTOR (SMD) 10.0UH
L504	1-414-398-41	s	INDUCTOR (SMD) 10.0UH
L505	1-414-398-41	s	INDUCTOR (SMD) 10.0UH
L506	1-414-398-41	s	INDUCTOR (SMD) 10.0UH
L507	1-414-392-41	s	INDUCTOR (SMD) 1.0UH
L508	1-414-398-41	s	INDUCTOR (SMD) 10.0UH
L509	1-414-398-41	s	INDUCTOR (SMD) 10.0UH
L510	1-414-392-41	s	INDUCTOR (SMD) 1.0UH
L511	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
L603	1-414-392-41	s	INDUCTOR (SMD) 1.0UH
L604	1-414-392-41	s	INDUCTOR (SMD) 1.0UH
L650	1-414-392-41	s	INDUCTOR (SMD) 1.0UH
L652	1-414-392-41	s	INDUCTOR (SMD) 1.0UH
L654	1-414-392-41	s	INDUCTOR (SMD) 1.0UH
L656	1-414-392-41	s	INDUCTOR (SMD) 1.0UH
L658	1-414-392-41	s	INDUCTOR (SMD) 1.0UH
L941	1-414-392-41	s	INDUCTOR (SMD) 1.0UH
L942	1-414-392-41	s	INDUCTOR (SMD) 1.0UH
L943	1-414-392-41	s	INDUCTOR (SMD) 1.0UH
L944	1-414-392-41	s	INDUCTOR (SMD) 1.0UH
L945	1-414-392-41	s	INDUCTOR (SMD) 1.0UH
L946	1-414-392-41	s	INDUCTOR (SMD) 1.0UH
Q1	6-550-631-01	s	TRANSISTOR 2SA1797-T100-Q
Q2	6-550-632-01	s	TRANSISTOR 2SC4672-T100-Q
Q3	6-550-631-01	s	TRANSISTOR 2SA1797-T100-Q
Q4	6-550-631-01	s	TRANSISTOR 2SA1797-T100-Q
Q5	8-729-928-05	s	TRANSISTOR 2SC4617TL-QR
Q6	8-729-928-05	s	TRANSISTOR 2SC4617TL-QR
Q7	8-729-928-05	s	TRANSISTOR 2SC4617TL-QR
Q202	8-729-928-05	s	TRANSISTOR 2SC4617TL-QR
Q203	8-729-928-05	s	TRANSISTOR 2SC4617TL-QR
Q204	8-729-928-05	s	TRANSISTOR 2SC4617TL-QR
Q205	8-729-928-05	s	TRANSISTOR 2SC4617TL-QR
Q206	8-729-928-05	s	TRANSISTOR 2SC4617TL-QR
Q207	8-729-928-05	s	TRANSISTOR 2SC4617TL-QR
Q208	8-729-928-05	s	TRANSISTOR 2SC4617TL-QR
Q209	8-729-928-05	s	TRANSISTOR 2SC4617TL-QR
Q210	8-729-928-05	s	TRANSISTOR 2SC4617TL-QR
Q211	8-729-928-05	s	TRANSISTOR 2SC4617TL-QR
Q701	8-729-928-05	s	TRANSISTOR 2SC4617TL-QR
Q702	8-729-928-05	s	TRANSISTOR 2SC4617TL-QR
R1	1-208-871-81	s	RES, CHIP 220 (1005)
R2	1-208-871-81	s	RES, CHIP 220 (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	1-208-863-81	s	RES, CHIP 100 (1005)
R7	1-208-871-81	s	RES, CHIP 220 (1005)
R8	1-208-871-81	s	RES, CHIP 220 (1005)
R9	1-208-923-81	s	RES, CHIP 33K (1005)
R10	1-208-923-81	s	RES, CHIP 33K (1005)

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Ref. No. or Q'ty	Part No.	SP	Description
R11	1-208-923-81	s	RES, CHIP 33K (1005)
R12	1-208-923-81	s	RES, CHIP 33K (1005)
R13	1-208-923-81	s	RES, CHIP 33K (1005)
R14	1-208-923-81	s	RES, CHIP 33K (1005)
R15	1-208-919-81	s	RES, CHIP 22K (1005)
R16	1-208-907-81	s	RES, CHIP 6.8K (1005)
R17	1-208-923-81	s	RES, CHIP 33K (1005)
R18	1-208-919-81	s	RES, CHIP 22K (1005)
R19	1-208-907-81	s	RES, CHIP 6.8K (1005)
R20	1-208-923-81	s	RES, CHIP 33K (1005)
R21	1-208-931-81	s	RES, CHIP 68K (1005)
R22	1-208-931-81	s	RES, CHIP 68K (1005)
R23	1-208-927-81	s	RES, CHIP 47K (1005)
R24	1-208-923-81	s	RES, CHIP 33K (1005)
R25	1-208-895-81	s	RES, CHIP 2.2K (1005)
R26	1-208-915-81	s	RES, CHIP 15K (1005)
R27	1-208-915-81	s	RES, CHIP 15K (1005)
R28	1-208-919-81	s	RES, CHIP 22K (1005)
R29	1-208-895-81	s	RES, CHIP 2.2K (1005)
R30	1-208-931-81	s	RES, CHIP 68K (1005)
R31	1-208-931-81	s	RES, CHIP 68K (1005)
R33	1-208-911-81	s	RES, CHIP 10K (1005)
R34	1-208-895-81	s	RES, CHIP 2.2K (1005)
R35	1-208-915-81	s	RES, CHIP 15K (1005)
R36	1-208-923-81	s	RES, CHIP 33K (1005)
R37	1-208-915-81	s	RES, CHIP 15K (1005)
R40	1-208-891-81	s	RES, CHIP 1.5K (1005)
R41	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R42	1-208-863-81	s	RES, CHIP 100 (1005)
R43	1-208-891-81	s	RES, CHIP 1.5K (1005)
R44	1-208-911-81	s	RES, CHIP 10K (1005)
R45	1-208-863-81	s	RES, CHIP 100 (1005)
R49	1-208-911-81	s	RES, CHIP 10K (1005)
R50	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R52	1-208-899-81	s	RES, CHIP 3.3K (1005)
R53	1-208-919-81	s	RES, CHIP 22K (1005)
R55	1-208-895-81	s	RES, CHIP 2.2K (1005)
R56	1-208-911-81	s	RES, CHIP 10K (1005)
R57	1-208-895-81	s	RES, CHIP 2.2K (1005)
R58	1-208-907-81	s	RES, CHIP 6.8K (1005)
R60	1-208-919-81	s	RES, CHIP 22K (1005)
R61	1-208-911-81	s	RES, CHIP 10K (1005)
R62	1-208-887-81	s	RES, CHIP 1.0K (1005)
R64	1-208-887-81	s	RES, CHIP 1.0K (1005)
R65	1-208-863-81	s	RES, CHIP 100 (1005)
R66	1-208-887-81	s	RES, CHIP 1.0K (1005)
R67	1-208-887-81	s	RES, CHIP 1.0K (1005)
R68	1-208-871-81	s	RES, CHIP 220 (1005)
R70	1-208-931-81	s	RES, CHIP 68K (1005)
R71	1-208-923-81	s	RES, CHIP 33K (1005)
R72	1-208-871-81	s	RES, CHIP 220 (1005)
R73	1-208-891-81	s	RES, CHIP 1.5K (1005)
R74	1-208-915-81	s	RES, CHIP 15K (1005)
R75	1-208-863-81	s	RES, CHIP 100 (1005)
R76	1-208-879-81	s	RES, CHIP 470 (1005)
R77	1-208-903-81	s	RES, CHIP 4.7K (1005)
R78	1-208-887-81	s	RES, CHIP 1.0K (1005)
R79	1-208-887-81	s	RES, CHIP 1.0K (1005)
R101	1-208-895-81	s	RES, CHIP 2.2K (1005)

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Ref. No. or Q'ty	Part No.	SP	Description
R102	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R103	1-208-911-81	s	RES, CHIP 10K (1005)
R104	1-208-855-81	s	RES, CHIP 47 (1005)
R105	1-220-878-81	s	RES, CHIP 22 (1005)
R107	1-208-887-81	s	RES, CHIP 1.0K (1005)
R108	1-208-867-81	s	RES, CHIP 150 (1005)
R109	1-208-863-81	s	RES, CHIP 100 (1005)
R110	1-208-887-81	s	RES, CHIP 1.0K (1005)
R111	1-208-887-81	s	RES, CHIP 1.0K (1005)
R112	1-208-863-81	s	RES, CHIP 100 (1005)
R113	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R114	1-208-863-81	s	RES, CHIP 100 (1005)
R115	1-208-863-81	s	RES, CHIP 100 (1005)
R116	1-208-863-81	s	RES, CHIP 100 (1005)
R117	1-208-863-81	s	RES, CHIP 100 (1005)
R118	1-208-887-81	s	RES, CHIP 1.0K (1005)
R119	1-208-887-81	s	RES, CHIP 1.0K (1005)
R120	1-208-883-81	s	RES, CHIP 680 (1005)
R121	1-208-863-81	s	RES, CHIP 100 (1005)
R122	1-208-887-81	s	RES, CHIP 1.0K (1005)
R123	1-208-887-81	s	RES, CHIP 1.0K (1005)
R124	1-208-887-81	s	RES, CHIP 1.0K (1005)
R126	1-208-863-81	s	RES, CHIP 100 (1005)
R128	1-208-887-81	s	RES, CHIP 1.0K (1005)
R129	1-208-887-81	s	RES, CHIP 1.0K (1005)
R130	1-208-863-81	s	RES, CHIP 100 (1005)
R131	1-208-863-81	s	RES, CHIP 100 (1005)
R132	1-208-887-81	s	RES, CHIP 1.0K (1005)
R133	1-208-887-81	s	RES, CHIP 1.0K (1005)
R134	1-208-863-81	s	RES, CHIP 100 (1005)
R135	1-208-859-81	s	RES, CHIP 68 (1005)
R136	1-208-887-81	s	RES, CHIP 1.0K (1005)
R137	1-208-887-81	s	RES, CHIP 1.0K (1005)
R138	1-208-887-81	s	RES, CHIP 1.0K (1005)
R139	1-208-887-81	s	RES, CHIP 1.0K (1005)
R140	1-208-856-81	s	RES, CHIP 51 (1005)
R141	1-208-856-81	s	RES, CHIP 51 (1005)
R142	1-220-878-81	s	RES, CHIP 22 (1005)
R143	1-220-878-81	s	RES, CHIP 22 (1005)
R145	1-208-863-81	s	RES, CHIP 100 (1005)
R146	1-208-863-81	s	RES, CHIP 100 (1005)
R149	1-208-863-81	s	RES, CHIP 100 (1005)
R150	1-220-878-81	s	RES, CHIP 22 (1005)
R151	1-208-895-81	s	RES, CHIP 2.2K (1005)
R152	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R153	1-208-911-81	s	RES, CHIP 10K (1005)
R154	1-208-855-81	s	RES, CHIP 47 (1005)
R155	1-208-887-81	s	RES, CHIP 1.0K (1005)
R156	1-208-867-81	s	RES, CHIP 150 (1005)
R158	1-208-863-81	s	RES, CHIP 100 (1005)
R159	1-208-887-81	s	RES, CHIP 1.0K (1005)
R160	1-208-887-81	s	RES, CHIP 1.0K (1005)
R161	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R162	1-208-863-81	s	RES, CHIP 100 (1005)
R163	1-208-863-81	s	RES, CHIP 100 (1005)
R164	1-208-863-81	s	RES, CHIP 100 (1005)
R165	1-208-863-81	s	RES, CHIP 100 (1005)
R166	1-208-887-81	s	RES, CHIP 1.0K (1005)
R167	1-208-883-81	s	RES, CHIP 680 (1005)

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Ref. No. or Q'ty	Part No.	SP	Description
R168	1-208-863-81	s	RES, CHIP 100 (1005)
R169	1-208-887-81	s	RES, CHIP 1.0K (1005)
R170	1-208-887-81	s	RES, CHIP 1.0K (1005)
R171	1-208-887-81	s	RES, CHIP 1.0K (1005)
R173	1-208-863-81	s	RES, CHIP 100 (1005)
R175	1-208-887-81	s	RES, CHIP 1.0K (1005)
R176	1-208-887-81	s	RES, CHIP 1.0K (1005)
R177	1-208-863-81	s	RES, CHIP 100 (1005)
R178	1-208-863-81	s	RES, CHIP 100 (1005)
R179	1-208-863-81	s	RES, CHIP 100 (1005)
R180	1-208-859-81	s	RES, CHIP 68 (1005)
R181	1-208-887-81	s	RES, CHIP 1.0K (1005)
R182	1-208-887-81	s	RES, CHIP 1.0K (1005)
R183	1-208-887-81	s	RES, CHIP 1.0K (1005)
R184	1-208-856-81	s	RES, CHIP 51 (1005)
R185	1-208-856-81	s	RES, CHIP 51 (1005)
R186	1-208-887-81	s	RES, CHIP 1.0K (1005)
R187	1-208-887-81	s	RES, CHIP 1.0K (1005)
R188	1-208-887-81	s	RES, CHIP 1.0K (1005)
R189	1-208-887-81	s	RES, CHIP 1.0K (1005)
R191	1-208-863-81	s	RES, CHIP 100 (1005)
R192	1-208-863-81	s	RES, CHIP 100 (1005)
R195	1-208-863-81	s	RES, CHIP 100 (1005)
R196	1-208-863-81	s	RES, CHIP 100 (1005)
R198	1-220-878-81	s	RES, CHIP 22 (1005)
R199	1-220-878-81	s	RES, CHIP 22 (1005)
R202	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R203	1-208-871-81	s	RES, CHIP 220 (1005)
R204	1-208-871-81	s	RES, CHIP 220 (1005)
R205	1-220-870-81	s	RES, CHIP 10 (1005)
R206	1-208-895-81	s	RES, CHIP 2.2K (1005)
R208	1-208-927-81	s	RES, CHIP 47K (1005)
R209	1-208-887-81	s	RES, CHIP 1.0K (1005)
R210	1-208-927-81	s	RES, CHIP 47K (1005)
R211	1-208-887-81	s	RES, CHIP 1.0K (1005)
R212	1-208-927-81	s	RES, CHIP 47K (1005)
R213	1-208-887-81	s	RES, CHIP 1.0K (1005)
R214	1-208-927-81	s	RES, CHIP 47K (1005)
R215	1-208-903-81	s	RES, CHIP 4.7K (1005)
R216	1-208-927-81	s	RES, CHIP 47K (1005)
R217	1-208-903-81	s	RES, CHIP 4.7K (1005)
R218	1-208-927-81	s	RES, CHIP 47K (1005)
R219	1-208-887-81	s	RES, CHIP 1.0K (1005)
R220	1-208-935-81	s	RES, CHIP 100K (1005)
R222	1-208-927-81	s	RES, CHIP 47K (1005)
R223	1-208-935-81	s	RES, CHIP 100K (1005)
R226	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R227	1-208-887-81	s	RES, CHIP 1.0K (1005)
R229	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R231	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R232	1-208-927-81	s	RES, CHIP 47K (1005)
R233	1-208-887-81	s	RES, CHIP 1.0K (1005)
R234	1-208-927-81	s	RES, CHIP 47K (1005)
R235	1-208-887-81	s	RES, CHIP 1.0K (1005)
R236	1-208-927-81	s	RES, CHIP 47K (1005)
R237	1-208-887-81	s	RES, CHIP 1.0K (1005)
R238	1-220-870-81	s	RES, CHIP 10 (1005)
R239	1-220-870-81	s	RES, CHIP 10 (1005)
R240	1-220-870-81	s	RES, CHIP 10 (1005)

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Ref. No. or Q'ty	Part No.	SP	Description
R241	1-220-870-81	s	RES, CHIP 10 (1005)
R242	1-220-870-81	s	RES, CHIP 10 (1005)
R250	1-220-878-81	s	RES, CHIP 22 (1005)
R261	1-220-878-81	s	RES, CHIP 22 (1005)
R262	1-220-878-81	s	RES, CHIP 22 (1005)
R263	1-220-878-81	s	RES, CHIP 22 (1005)
R264	1-220-878-81	s	RES, CHIP 22 (1005)
R265	1-220-878-81	s	RES, CHIP 22 (1005)
R266	1-220-878-81	s	RES, CHIP 22 (1005)
R267	1-220-878-81	s	RES, CHIP 22 (1005)
R269	1-220-878-81	s	RES, CHIP 22 (1005)
R270	1-220-878-81	s	RES, CHIP 22 (1005)
R272	1-220-870-81	s	RES, CHIP 10 (1005)
R301	1-208-895-81	s	RES, CHIP 2.2K (1005)
R302	1-220-870-81	s	RES, CHIP 10 (1005)
R303	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R304	1-208-911-81	s	RES, CHIP 10K (1005)
R305	1-220-870-81	s	RES, CHIP 10 (1005)
R306	1-208-911-81	s	RES, CHIP 10K (1005)
R308	1-208-887-81	s	RES, CHIP 1.0K (1005)
R309	1-208-887-81	s	RES, CHIP 1.0K (1005)
R312	1-208-887-81	s	RES, CHIP 1.0K (1005)
R314	1-208-887-81	s	RES, CHIP 1.0K (1005)
R315	1-220-870-81	s	RES, CHIP 10 (1005)
R316	1-220-870-81	s	RES, CHIP 10 (1005)
R317	1-208-911-81	s	RES, CHIP 10K (1005)
R337	1-220-870-81	s	RES, CHIP 10 (1005)
R338	1-220-870-81	s	RES, CHIP 10 (1005)
R340	1-208-927-81	s	RES, CHIP 47K (1005)
R341	1-208-863-81	s	RES, CHIP 100 (1005)
R342	1-220-870-81	s	RES, CHIP 10 (1005)
R344	1-208-927-81	s	RES, CHIP 47K (1005)
R362	1-220-878-81	s	RES, CHIP 22 (1005)
R363	1-220-878-81	s	RES, CHIP 22 (1005)
R364	1-220-878-81	s	RES, CHIP 22 (1005)
R365	1-220-878-81	s	RES, CHIP 22 (1005)
R366	1-208-887-81	s	RES, CHIP 1.0K (1005)
R367	1-208-887-81	s	RES, CHIP 1.0K (1005)
R368	1-208-887-81	s	RES, CHIP 1.0K (1005)
R369	1-208-887-81	s	RES, CHIP 1.0K (1005)
R370	1-220-878-81	s	RES, CHIP 22 (1005)
R371	1-208-887-81	s	RES, CHIP 1.0K (1005)
R372	1-220-878-81	s	RES, CHIP 22 (1005)
R373	1-208-887-81	s	RES, CHIP 1.0K (1005)
R374	1-208-887-81	s	RES, CHIP 1.0K (1005)
R375	1-208-887-81	s	RES, CHIP 1.0K (1005)
R379	1-208-863-81	s	RES, CHIP 100 (1005)
R401	1-220-870-81	s	RES, CHIP 10 (1005)
R402	1-208-935-81	s	RES, CHIP 100K (1005)
R403	1-208-895-81	s	RES, CHIP 2.2K (1005)
R404	1-208-935-81	s	RES, CHIP 100K (1005)
R405	1-220-870-81	s	RES, CHIP 10 (1005)
R406	1-220-870-81	s	RES, CHIP 10 (1005)
R407	1-220-878-81	s	RES, CHIP 22 (1005)
R408	1-208-903-81	s	RES, CHIP 4.7K (1005)
R411	1-220-878-81	s	RES, CHIP 22 (1005)
R412	1-220-878-81	s	RES, CHIP 22 (1005)
R413	1-220-878-81	s	RES, CHIP 22 (1005)
R414	1-218-990-81	s	CONDUCTOR, CHIP (1005)

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Ref. No. or Q'ty	Part No.	SP	Description
R415	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R416	1-208-875-81	s	RES, CHIP 330 (1005)
R417	1-208-911-81	s	RES, CHIP 10K (1005)
R418	1-208-887-81	s	RES, CHIP 1.0K (1005)
R419	1-208-863-81	s	RES, CHIP 100 (1005)
R420	1-220-878-81	s	RES, CHIP 22 (1005)
R421	1-220-878-81	s	RES, CHIP 22 (1005)
R422	1-220-878-81	s	RES, CHIP 22 (1005)
R423	1-220-878-81	s	RES, CHIP 22 (1005)
R424	1-220-878-81	s	RES, CHIP 22 (1005)
R425	1-220-878-81	s	RES, CHIP 22 (1005)
R426	1-220-878-81	s	RES, CHIP 22 (1005)
R427	1-220-878-81	s	RES, CHIP 22 (1005)
R428	1-208-911-81	s	RES, CHIP 10K (1005)
R430	1-220-878-81	s	RES, CHIP 22 (1005)
R432	1-208-863-81	s	RES, CHIP 100 (1005)
R433	1-208-863-81	s	RES, CHIP 100 (1005)
R434	1-208-855-81	s	RES, CHIP 47 (1005)
R435	1-220-870-81	s	RES, CHIP 10 (1005)
R436	1-208-935-81	s	RES, CHIP 100K (1005)
R437	1-208-935-81	s	RES, CHIP 100K (1005)
R450	1-220-878-81	s	RES, CHIP 22 (1005)
R451	1-220-878-81	s	RES, CHIP 22 (1005)
R454	1-220-870-81	s	RES, CHIP 10 (1005)
R455	1-220-870-81	s	RES, CHIP 10 (1005)
R456	1-220-870-81	s	RES, CHIP 10 (1005)
R461	1-208-863-81	s	RES, CHIP 100 (1005)
R462	1-208-863-81	s	RES, CHIP 100 (1005)
R463	1-208-863-81	s	RES, CHIP 100 (1005)
R464	1-208-863-81	s	RES, CHIP 100 (1005)
R471	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R472	1-208-863-81	s	RES, CHIP 100 (1005)
R473	1-208-863-81	s	RES, CHIP 100 (1005)
R502	1-220-870-81	s	RES, CHIP 10 (1005)
R503	1-208-863-81	s	RES, CHIP 100 (1005)
R504	1-208-879-81	s	RES, CHIP 470 (1005)
R505	1-208-895-81	s	RES, CHIP 2.2K (1005)
R506	1-208-911-81	s	RES, CHIP 10K (1005)
R507	1-208-911-81	s	RES, CHIP 10K (1005)
R508	1-220-878-81	s	RES, CHIP 22 (1005)
R509	1-220-878-81	s	RES, CHIP 22 (1005)
R510	1-220-878-81	s	RES, CHIP 22 (1005)
R511	1-220-878-81	s	RES, CHIP 22 (1005)
R513	1-220-878-81	s	RES, CHIP 22 (1005)
R514	1-220-878-81	s	RES, CHIP 22 (1005)
R517	1-208-863-81	s	RES, CHIP 100 (1005)
R518	1-220-878-81	s	RES, CHIP 22 (1005)
R526	1-220-878-81	s	RES, CHIP 22 (1005)
R527	1-208-863-81	s	RES, CHIP 100 (1005)
R528	1-208-863-81	s	RES, CHIP 100 (1005)
R529	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R530	1-208-935-81	s	RES, CHIP 100K (1005)
R531	1-208-955-81	s	RES, CHIP 680K (1005)
R533	1-208-855-81	s	RES, CHIP 47 (1005)
R534	1-208-899-81	s	RES, CHIP 3.3K (1005)
R535	1-208-899-81	s	RES, CHIP 3.3K (1005)
R536	1-208-899-81	s	RES, CHIP 3.3K (1005)
R537	1-208-875-81	s	RES, CHIP 330 (1005)
R538	1-208-883-81	s	RES, CHIP 680 (1005)

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Ref. No. or Q'ty	Part No.	SP	Description
R539	1-208-911-81	s	RES, CHIP 10K (1005)
R540	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R541	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R542	1-208-875-81	s	RES, CHIP 330 (1005)
R543	1-208-879-81	s	RES, CHIP 470 (1005)
R544	1-208-887-81	s	RES, CHIP 1.0K (1005)
R545	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R546	1-208-911-81	s	RES, CHIP 10K (1005)
R547	1-208-883-81	s	RES, CHIP 680 (1005)
R549	1-208-883-81	s	RES, CHIP 680 (1005)
R551	1-208-875-81	s	RES, CHIP 330 (1005)
R558	1-220-870-81	s	RES, CHIP 10 (1005)
R559	1-220-870-81	s	RES, CHIP 10 (1005)
R560	1-208-895-81	s	RES, CHIP 2.2K (1005)
R561	1-208-895-81	s	RES, CHIP 2.2K (1005)
R563	1-208-911-81	s	RES, CHIP 10K (1005)
R564	1-208-891-81	s	RES, CHIP 1.5K (1005)
R565	1-208-927-81	s	RES, CHIP 47K (1005)
R566	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R567	1-208-927-81	s	RES, CHIP 47K (1005)
R568	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R569	1-208-927-81	s	RES, CHIP 47K (1005)
R570	1-208-927-81	s	RES, CHIP 47K (1005)
R571	1-208-887-81	s	RES, CHIP 1.0K (1005)
R572	1-208-887-81	s	RES, CHIP 1.0K (1005)
R573	1-208-911-81	s	RES, CHIP 10K (1005)
R574	1-208-959-81	s	RES, CHIP 1M (1005)
R575	1-208-863-81	s	RES, CHIP 100 (1005)
R576	1-208-911-81	s	RES, CHIP 10K (1005)
R577	1-208-911-81	s	RES, CHIP 10K (1005)
R578	1-208-931-81	s	RES, CHIP 68K (1005)
R579	1-208-931-81	s	RES, CHIP 68K (1005)
R580	1-220-874-81	s	RES, CHIP 15 (1005)
R581	1-208-911-81	s	RES, CHIP 10K (1005)
R582	1-220-870-81	s	RES, CHIP 10 (1005)
R583	1-220-870-81	s	RES, CHIP 10 (1005)
R584	1-220-878-81	s	RES, CHIP 22 (1005)
R585	1-220-874-81	s	RES, CHIP 15 (1005)
R588	1-208-863-81	s	RES, CHIP 100 (1005)
R589	1-208-863-81	s	RES, CHIP 100 (1005)
R590	1-208-863-81	s	RES, CHIP 100 (1005)
R593	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R601	1-208-855-81	s	RES, CHIP 47 (1005)
R602	1-220-878-81	s	RES, CHIP 22 (1005)
R603	1-220-878-81	s	RES, CHIP 22 (1005)
R604	1-208-911-81	s	RES, CHIP 10K (1005)
R605	1-208-855-81	s	RES, CHIP 47 (1005)
R606	1-220-878-81	s	RES, CHIP 22 (1005)
R607	1-220-878-81	s	RES, CHIP 22 (1005)
R608	1-208-911-81	s	RES, CHIP 10K (1005)
R610	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R612	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R614	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R616	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R651	1-208-855-81	s	RES, CHIP 47 (1005)
R652	1-220-878-81	s	RES, CHIP 22 (1005)
R653	1-220-878-81	s	RES, CHIP 22 (1005)
R654	1-220-878-81	s	RES, CHIP 22 (1005)
R655	1-220-878-81	s	RES, CHIP 22 (1005)

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Ref. No. or Q'ty	Part No.	SP	Description
R656	1-220-878-81	s	RES, CHIP 22 (1005)
R657	1-220-878-81	s	RES, CHIP 22 (1005)
R658	1-208-855-81	s	RES, CHIP 47 (1005)
R662	1-208-855-81	s	RES, CHIP 47 (1005)
R663	1-208-855-81	s	RES, CHIP 47 (1005)
R664	1-220-878-81	s	RES, CHIP 22 (1005)
R665	1-220-878-81	s	RES, CHIP 22 (1005)
R666	1-220-878-81	s	RES, CHIP 22 (1005)
R667	1-220-878-81	s	RES, CHIP 22 (1005)
R701	1-220-878-81	s	RES, CHIP 22 (1005)
R703	1-220-878-81	s	RES, CHIP 22 (1005)
R704	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R705	1-208-863-81	s	RES, CHIP 100 (1005)
R706	1-208-863-81	s	RES, CHIP 100 (1005)
R707	1-208-863-81	s	RES, CHIP 100 (1005)
R708	1-208-863-81	s	RES, CHIP 100 (1005)
R709	1-208-863-81	s	RES, CHIP 100 (1005)
R710	1-208-863-81	s	RES, CHIP 100 (1005)
R711	1-208-863-81	s	RES, CHIP 100 (1005)
R712	1-208-863-81	s	RES, CHIP 100 (1005)
R713	1-208-863-81	s	RES, CHIP 100 (1005)
R714	1-220-870-81	s	RES, CHIP 10 (1005)
R715	1-220-870-81	s	RES, CHIP 10 (1005)
R716	1-220-870-81	s	RES, CHIP 10 (1005)
R717	1-208-863-81	s	RES, CHIP 100 (1005)
R718	1-208-863-81	s	RES, CHIP 100 (1005)
R719	1-208-863-81	s	RES, CHIP 100 (1005)
R721	1-208-863-81	s	RES, CHIP 100 (1005)
R722	1-208-863-81	s	RES, CHIP 100 (1005)
R723	1-208-863-81	s	RES, CHIP 100 (1005)
R724	1-208-863-81	s	RES, CHIP 100 (1005)
R725	1-208-863-81	s	RES, CHIP 100 (1005)
R726	1-208-863-81	s	RES, CHIP 100 (1005)
R727	1-208-863-81	s	RES, CHIP 100 (1005)
R728	1-208-863-81	s	RES, CHIP 100 (1005)
R729	1-208-863-81	s	RES, CHIP 100 (1005)
R730	1-208-863-81	s	RES, CHIP 100 (1005)
R731	1-208-863-81	s	RES, CHIP 100 (1005)
R732	1-208-863-81	s	RES, CHIP 100 (1005)
R733	1-208-863-81	s	RES, CHIP 100 (1005)
R734	1-208-863-81	s	RES, CHIP 100 (1005)
R735	1-208-903-81	s	RES, CHIP 4.7K (1005)
R736	1-208-863-81	s	RES, CHIP 100 (1005)
R737	1-208-863-81	s	RES, CHIP 100 (1005)
R738	1-208-863-81	s	RES, CHIP 100 (1005)
R740	1-220-870-81	s	RES, CHIP 10 (1005)
R741	1-220-870-81	s	RES, CHIP 10 (1005)
R742	1-220-870-81	s	RES, CHIP 10 (1005)
R743	1-208-863-81	s	RES, CHIP 100 (1005)
R744	1-208-863-81	s	RES, CHIP 100 (1005)
R745	1-208-903-81	s	RES, CHIP 4.7K (1005)
R747	1-208-919-81	s	RES, CHIP 22K (1005)
R748	1-208-887-81	s	RES, CHIP 1.0K (1005)
R749	1-208-911-81	s	RES, CHIP 10K (1005)
R750	1-208-911-81	s	RES, CHIP 10K (1005)
R751	1-208-863-81	s	RES, CHIP 100 (1005)
R752	1-208-863-81	s	RES, CHIP 100 (1005)
R753	1-208-863-81	s	RES, CHIP 100 (1005)
R755	1-208-863-81	s	RES, CHIP 100 (1005)

(DRX-8 BOARD (HKCU2005))

Ref. No. or Q'ty	Part No.	SP	Description
R756	1-208-863-81	s	RES, CHIP 100 (1005)
R757	1-220-878-81	s	RES, CHIP 22 (1005)
R758	1-220-878-81	s	RES, CHIP 22 (1005)
R759	1-220-878-81	s	RES, CHIP 22 (1005)
R760	1-220-878-81	s	RES, CHIP 22 (1005)
R761	1-220-878-81	s	RES, CHIP 22 (1005)
R762	1-220-878-81	s	RES, CHIP 22 (1005)
R763	1-220-878-81	s	RES, CHIP 22 (1005)
R764	1-220-878-81	s	RES, CHIP 22 (1005)
R765	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R766	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R767	1-208-887-81	s	RES, CHIP 1.0K (1005)
R768	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R769	1-208-919-81	s	RES, CHIP 22K (1005)
R770	1-208-911-81	s	RES, CHIP 10K (1005)
R771	1-208-919-81	s	RES, CHIP 22K (1005)
R772	1-208-911-81	s	RES, CHIP 10K (1005)
R773	1-208-919-81	s	RES, CHIP 22K (1005)
R777	1-208-863-81	s	RES, CHIP 100 (1005)
RB101	1-234-370-21	s	RES, NETWORK 22 (1005X4)
RB102	1-234-370-21	s	RES, NETWORK 22 (1005X4)
RB103	1-234-370-21	s	RES, NETWORK 22 (1005X4)
RB104	1-234-370-21	s	RES, NETWORK 22 (1005X4)
RB105	1-234-370-21	s	RES, NETWORK 22 (1005X4)
RB151	1-234-370-21	s	RES, NETWORK 22 (1005X4)
RB152	1-234-370-21	s	RES, NETWORK 22 (1005X4)
RB153	1-234-370-21	s	RES, NETWORK 22 (1005X4)
RB154	1-234-370-21	s	RES, NETWORK 22 (1005X4)
RB155	1-234-370-21	s	RES, NETWORK 22 (1005X4)
RB201	1-234-381-21	s	RES, NETWORK 100K (1005X4)
RB202	1-234-381-21	s	RES, NETWORK 100K (1005X4)
RB203	1-234-381-21	s	RES, NETWORK 100K (1005X4)
RB204	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB205	1-234-381-21	s	RES, NETWORK 100K (1005X4)
RB206	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB207	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB208	1-234-381-21	s	RES, NETWORK 100K (1005X4)
RB209	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB210	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB211	1-234-369-21	s	RES, NETWORK 10 (1005X4)
RB212	1-234-369-21	s	RES, NETWORK 10 (1005X4)
RB213	1-234-369-21	s	RES, NETWORK 10 (1005X4)
RB214	1-234-369-21	s	RES, NETWORK 10 (1005X4)
RB215	1-234-369-21	s	RES, NETWORK 10 (1005X4)
RB221	1-234-369-21	s	RES, NETWORK 10 (1005X4)
RB222	1-234-369-21	s	RES, NETWORK 10 (1005X4)
RB223	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB225	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB230	1-234-381-21	s	RES, NETWORK 100K (1005X4)
RB231	1-234-381-21	s	RES, NETWORK 100K (1005X4)
RB232	1-234-381-21	s	RES, NETWORK 100K (1005X4)
RB233	1-234-381-21	s	RES, NETWORK 100K (1005X4)
RB235	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB301	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB302	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB304	1-234-378-21	s	RES, NETWORK 10K (1005X4)
RB305	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB306	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB307	1-234-372-21	s	RES, NETWORK 100 (1005X4)

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Ref. No. or Q'ty	Part No.	SP	Description
RB308	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB309	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB310	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB311	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB312	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB313	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB314	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB315	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB316	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB317	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB318	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB319	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB320	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB321	1-234-378-21	s	RES, NETWORK 10K (1005X4)
RB322	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB325	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB326	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB327	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB328	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB329	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB330	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB401	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB402	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB403	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB404	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB405	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB406	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB407	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB408	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB409	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB410	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB411	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB412	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB413	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB414	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB415	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB416	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB417	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB418	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB419	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB420	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB421	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB422	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB423	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB424	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB425	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB426	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB427	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB428	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB456	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB457	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB458	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB459	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB460	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB461	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB462	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB463	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB464	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB465	1-234-372-21	s	RES, NETWORK 100 (1005X4)

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Ref. No. or Q'ty	Part No.	SP	Description
RB466	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB467	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB469	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB470	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB471	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB472	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB473	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB475	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB476	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB477	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB478	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB479	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB480	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB481	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB482	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB483	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB484	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB485	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB486	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB487	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB501	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB502	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB503	1-234-370-21	s	RES, NETWORK 22 (1005X4)
RB504	1-234-370-21	s	RES, NETWORK 22 (1005X4)
RB505	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB506	1-234-373-21	s	RES, NETWORK 220 (1005X4)
RB507	1-234-373-21	s	RES, NETWORK 220 (1005X4)
RB508	1-234-373-21	s	RES, NETWORK 220 (1005X4)
RB600	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB601	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB602	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB603	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB604	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB605	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB606	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB607	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB611	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB612	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB613	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB614	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB615	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB616	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB617	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB618	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB619	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB620	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB621	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB622	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB623	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB624	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB625	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB626	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB634	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB635	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB636	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB637	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB638	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB639	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB640	1-234-372-21	s	RES, NETWORK 100 (1005X4)

(DRX-8 BOARD (HKCU2005))

Ref. No. or Q'ty	Part No.	SP	Description
RB641	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB642	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB643	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB644	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB645	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB646	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB647	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB648	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB649	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB650	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB651	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB652	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB653	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB654	1-234-378-21	s	RES, NETWORK 10K (1005X4)
RB655	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB656	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB657	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB658	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB659	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB660	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB661	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB662	1-234-378-21	s	RES, NETWORK 10K (1005X4)
RB663	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB664	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB665	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB666	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB667	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB668	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB669	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB670	1-234-378-21	s	RES, NETWORK 10K (1005X4)
RB671	1-234-378-21	s	RES, NETWORK 10K (1005X4)
RB672	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB673	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB674	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB675	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB676	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB677	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB678	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB679	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB680	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB681	1-234-378-21	s	RES, NETWORK 10K (1005X4)
RB682	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB683	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB684	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB685	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB686	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB687	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB688	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB689	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB690	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB691	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB692	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB693	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB694	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB695	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB696	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB697	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB701	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB705	1-234-370-21	s	RES, NETWORK 22 (1005X4)

(DRX-8 BOARD (HKCU2005))

Ref. No. or Q'ty	Part No.	SP	Description
RB706	1-234-370-21	s	RES, NETWORK 22 (1005X4)
RB707	1-234-370-21	s	RES, NETWORK 22 (1005X4)
RB708	1-234-370-21	s	RES, NETWORK 22 (1005X4)
RB731	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB732	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB733	1-234-377-21	s	RES, NETWORK 4.7K (1005X4)
RV1	1-225-791-21	s	RES, ADJ, CERMET 5K
S1	1-572-658-21	s	SWITCH, ROTARY
S2	1-692-271-41	s	SWITCH, SLIDE
S4	1-570-711-33	s	SWITCH, SLIDE
THP1	1-533-817-21	s	THERMISTOR
THP2	1-533-817-21	s	THERMISTOR
THP3	1-805-580-11	s	THERMISTOR, POSITIVE
THP5	1-533-817-21	s	THERMISTOR
THP6	1-533-817-21	s	THERMISTOR
THP7	1-805-580-11	s	THERMISTOR, POSITIVE
THP9	1-805-580-11	s	THERMISTOR, POSITIVE
TP1	1-535-877-22	s	CHIP, CHECKER
TP2	1-535-877-22	s	CHIP, CHECKER
TP501	1-535-877-22	s	CHIP, CHECKER
TP502	1-535-877-22	s	CHIP, CHECKER
X501	1-813-529-11	s	OSCILLATOR, CRYSTAL (VCXO) 3.3
X502	1-813-530-11	s	OSCILLATOR, CRYSTAL (VCXO) 3.3

HIF-57 BOARD (HKCU2005)

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-1764-670-A	s	MOUNTED CIRCUIT BOARD, HIF-57
8pcs	3-364-941-01	s	SCREW (+B) (2.6X5), NYLOK
C1	1-128-589-21	s	CAP, CHIP ELECT 47MF
C2	1-126-396-21	s	CAP, CHIP ELECT 47MF (6.3X5.7)
C3	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C4	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C5	1-164-874-81	s	CAP,CHIP CERAMIC 100PF CH 1005
C6	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C7	1-126-394-21	s	CAP, CHIP ELECT 10MF (4X5.7)
C11	1-128-589-21	s	CAP, CHIP ELECT 47MF
C151	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C153	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C154	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C155	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C156	1-112-746-91	s	CAP, CERAMIC 4.7MF B (1608)
C157	1-112-746-91	s	CAP, CERAMIC 4.7MF B (1608)
C251	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C253	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C254	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C255	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C256	1-112-746-91	s	CAP, CERAMIC 4.7MF B (1608)
C257	1-112-746-91	s	CAP, CERAMIC 4.7MF B (1608)
CN102	1-793-324-21	s	CONNECTOR, COAXIAL (BNC TYPE)
CN103	1-793-324-21	s	CONNECTOR, COAXIAL (BNC TYPE)
CN104	1-793-324-21	s	CONNECTOR, COAXIAL (BNC TYPE)
CN105	1-793-324-21	s	CONNECTOR, COAXIAL (BNC TYPE)
D1	6-500-697-01	s	DI UDZSUSTE-173.3B
E1	1-535-877-22	s	CHIP, CHECKER
FB151	1-481-195-21	s	FERRITE, EMI (SMD)
FB152	1-481-195-21	s	FERRITE, EMI (SMD)
FB251	1-481-195-21	s	FERRITE, EMI (SMD)
FB252	1-481-195-21	s	FERRITE, EMI (SMD)
IC1	8-759-327-01	s	IC NJM062V(TE2)
IC2	6-704-976-01	s	IC ADR381ARTZ-REEL7
IC151	6-713-192-01	s	IC GS2978-CNE3
IC251	6-713-192-01	s	IC GS2978-CNE3
L1	1-414-398-41	s	INDUCTOR (SMD) 10.0UH
L2	1-414-398-41	s	INDUCTOR (SMD) 10.0UH
L151	1-414-836-21	s	INDUCTOR, CHIP 4.7NH (1005)
L152	1-414-836-21	s	INDUCTOR, CHIP 4.7NH (1005)
L251	1-414-836-21	s	INDUCTOR, CHIP 4.7NH (1005)
L252	1-414-836-21	s	INDUCTOR, CHIP 4.7NH (1005)
Q1	6-550-631-01	s	TRANSISTOR 2SA1797-T100-Q
Q3	8-729-928-05	s	TRANSISTOR 2SC4617TL-QR
R3	1-208-871-81	s	RES, CHIP 220 (1005)
R4	1-208-907-81	s	RES, CHIP 6.8K (1005)
R5	1-208-871-81	s	RES, CHIP 220 (1005)
R6	1-208-919-81	s	RES, CHIP 22K (1005)
R7	1-208-927-81	s	RES, CHIP 47K (1005)
R8	1-208-927-81	s	RES, CHIP 47K (1005)
R9	1-208-927-81	s	RES, CHIP 47K (1005)
R10	1-208-927-81	s	RES, CHIP 47K (1005)
R11	1-208-863-81	s	RES, CHIP 100 (1005)
R12	1-208-903-81	s	RES, CHIP 4.7K (1005)
R153	1-208-856-81	s	RES, CHIP 51 (1005)

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Ref. No. or Q'ty	Part No.	SP	Description
R154	1-208-863-81	s	RES, CHIP 100 (1005)
R155	1-208-856-81	s	RES, CHIP 51 (1005)
R156	1-208-935-81	s	RES, CHIP 100K (1005)
R157	1-208-855-81	s	RES, CHIP 47 (1005)
R158	1-208-883-81	s	RES, CHIP 680 (1005)
R159	1-208-935-81	s	RES, CHIP 100K (1005)
R160	1-208-860-81	s	RES, CHIP 75 (1005)
R161	1-208-860-81	s	RES, CHIP 75 (1005)
R162	1-208-860-81	s	RES, CHIP 75 (1005)
R163	1-208-860-81	s	RES, CHIP 75 (1005)
R253	1-208-856-81	s	RES, CHIP 51 (1005)
R254	1-208-863-81	s	RES, CHIP 100 (1005)
R255	1-208-856-81	s	RES, CHIP 51 (1005)
R256	1-208-935-81	s	RES, CHIP 100K (1005)
R257	1-208-855-81	s	RES, CHIP 47 (1005)
R258	1-208-883-81	s	RES, CHIP 680 (1005)
R259	1-208-935-81	s	RES, CHIP 100K (1005)
R260	1-208-860-81	s	RES, CHIP 75 (1005)
R261	1-208-860-81	s	RES, CHIP 75 (1005)
R262	1-208-860-81	s	RES, CHIP 75 (1005)
R263	1-208-860-81	s	RES, CHIP 75 (1005)

SDP-16 BOARD (HKCU-HB10/15)

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-1764-668-A	s	MOUNTED CIRCUIT BOARD, SDP-16
1pc	⚠ 1-840-495-11	s	MODULE, OPTICAL (SFP)
1pc	1-842-219-11	s	OPTICAL CONNECTOR (ATTENUATOR)
2pcs	3-364-941-01	s	SCREW (+B) (2.6X5), NYLOK
2pcs	3-364-941-01	s	SCREW (+B) (2.6X5), NYLOK
1pc	4-669-854-01	s	CAGE, TOP
C1	1-116-346-11	s	CAP, ELECT 47MF 105
C4	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C6	1-116-346-11	s	CAP, ELECT 47MF 105
C9	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C11	1-126-394-21	s	CAP, CHIP ELECT 10MF (4X5.7)
C13	1-116-346-11	s	CAP, ELECT 47MF 105
C16	1-100-055-21	s	CAP, CHIP CERAMIC 22MF B 3225
C17	1-100-055-21	s	CAP, CHIP CERAMIC 22MF B 3225
C20	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C22	1-126-394-21	s	CAP, CHIP ELECT 10MF (4X5.7)
C23	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C24	1-112-015-91	s	CAP, CHIP CERAMIC 47MF B 3225
C25	1-112-015-91	s	CAP, CHIP CERAMIC 47MF B 3225
C26	1-100-055-21	s	CAP, CHIP CERAMIC 22MF B 3225
C27	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C29	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C30	1-100-055-21	s	CAP, CHIP CERAMIC 22MF B 3225
C31	1-128-416-21	s	CAP, CHIP ELECT 100MF
C32	1-100-055-21	s	CAP, CHIP CERAMIC 22MF B 3225
C33	1-119-923-81	s	CAP, CERAMIC 0.047MF B 1005
C36	1-112-015-91	s	CAP, CHIP CERAMIC 47MF B 3225
C37	1-112-015-91	s	CAP, CHIP CERAMIC 47MF B 3225
C40	1-112-015-91	s	CAP, CHIP CERAMIC 47MF B 3225
C41	1-164-847-81	s	CAP, CHIP CERAMIC 7PF CH 1005
C42	1-165-989-91	s	CAP, CERAMIC 10MF (2012)
C44	1-100-055-21	s	CAP, CHIP CERAMIC 22MF B 3225
C45	1-119-923-81	s	CAP, CERAMIC 0.047MF B 1005
C48	1-112-015-91	s	CAP, CHIP CERAMIC 47MF B 3225
C49	1-112-015-91	s	CAP, CHIP CERAMIC 47MF B 3225
C52	1-112-015-91	s	CAP, CHIP CERAMIC 47MF B 3225
C53	1-164-847-81	s	CAP, CHIP CERAMIC 7PF CH 1005
C54	1-112-015-91	s	CAP, CHIP CERAMIC 47MF B 3225
C55	1-165-989-91	s	CAP, CERAMIC 10MF (2012)
C56	1-116-346-11	s	CAP, ELECT 47MF 105
C57	1-100-055-21	s	CAP, CHIP CERAMIC 22MF B 3225
C58	1-165-989-91	s	CAP, CERAMIC 10MF (2012)
C59	1-100-055-21	s	CAP, CHIP CERAMIC 22MF B 3225
C60	1-100-055-21	s	CAP, CHIP CERAMIC 22MF B 3225
C61	1-100-055-21	s	CAP, CHIP CERAMIC 22MF B 3225
C62	1-119-923-81	s	CAP, CERAMIC 0.047MF B 1005
C63	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C64	1-119-923-81	s	CAP, CERAMIC 0.047MF B 1005
C65	1-112-015-91	s	CAP, CHIP CERAMIC 47MF B 3225
C66	1-112-015-91	s	CAP, CHIP CERAMIC 47MF B 3225
C67	1-112-015-91	s	CAP, CHIP CERAMIC 47MF B 3225
C69	1-116-346-11	s	CAP, ELECT 47MF 105
C70	1-107-819-81	s	CAP,CHIP CERAMIC 22000PF B1005
C71	1-164-936-81	s	CAP, CHIP CERAMIC 680PF B 1005
C72	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C75	1-112-015-91	s	CAP, CHIP CERAMIC 47MF B 3225
C78	1-112-015-91	s	CAP, CHIP CERAMIC 47MF B 3225
C79	1-164-939-81	s	CAP, CHIPCERAMIC 2200PF B 1005

(SDP-16 BOARD (HKCU-HB10/15))

Ref. No. or Q'ty	Part No.	SP	Description
C80	1-112-692-81	s	CAP,CHIP CERAMIC1000PF CH 1005
C81	1-164-939-81	s	CAP, CHIPCERAMIC 2200PF B 1005
C82	1-112-692-81	s	CAP,CHIP CERAMIC1000PF CH 1005
C83	1-164-939-81	s	CAP, CHIPCERAMIC 2200PF B 1005
C84	1-112-692-81	s	CAP,CHIP CERAMIC1000PF CH 1005
C101	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C102	1-100-055-21	s	CAP, CHIP CERAMIC 22MF B 3225
C103	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C104	1-126-394-21	s	CAP, CHIP ELECT 10MF (4X5.7)
C105	1-126-394-21	s	CAP, CHIP ELECT 10MF (4X5.7)
C106	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C107	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C108	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C109	1-125-891-91	s	CAP, CHIP CERAMIC0.47MF B 1608
C110	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C111	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C112	1-125-891-91	s	CAP, CHIP CERAMIC0.47MF B 1608
C113	1-100-055-21	s	CAP, CHIP CERAMIC 22MF B 3225
C114	1-100-055-21	s	CAP, CHIP CERAMIC 22MF B 3225
C115	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C116	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C117	1-164-850-81	s	CAP, CHIP CERAMIC 10PF CH 1005
C118	1-164-850-81	s	CAP, CHIP CERAMIC 10PF CH 1005
C119	1-112-692-81	s	CAP,CHIP CERAMIC1000PF CH 1005
C120	1-112-692-81	s	CAP,CHIP CERAMIC1000PF CH 1005
C121	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C122	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C123	1-165-989-91	s	CAP, CERAMIC 10MF (2012)
C124	1-165-989-91	s	CAP, CERAMIC 10MF (2012)
C125	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C246	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C248	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C271	1-165-989-91	s	CAP, CERAMIC 10MF (2012)
C272	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C273	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C274	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C275	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C276	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C277	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C279	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C280	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C400	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C404	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C405	1-114-582-91	o	CAP, CERAMIC 0.1MF 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	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C415	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C416	1-164-939-81	s	CAP, CHIPCERAMIC 2200PF B 1005
C417	1-107-819-81	s	CAP,CHIP CERAMIC 22000PF B1005
C418	1-107-819-81	s	CAP,CHIP CERAMIC 22000PF B1005
C419	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C482	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C498	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C499	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C501	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C503	1-112-015-91	s	CAP, CHIP CERAMIC 47MF B 3225
C504	1-112-746-91	s	CAP, CERAMIC 4.7MF B (1608)
C505	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)

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Ref. No. or Q'ty	Part No.	SP	Description
C506	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C507	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C508	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C509	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C510	1-112-746-91	s	CAP, CERAMIC 4.7MF B (1608)
C511	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C512	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C513	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C514	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C515	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C516	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C517	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C518	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C519	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C520	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C521	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C522	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C523	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C524	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C525	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C526	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C527	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C528	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C529	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C530	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C531	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C532	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C533	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C534	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C535	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C536	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C537	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C538	1-112-746-91	s	CAP, CERAMIC 4.7MF B (1608)
C539	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C540	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C541	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C542	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C543	1-112-746-91	s	CAP, CERAMIC 4.7MF B (1608)
C544	1-112-746-91	s	CAP, CERAMIC 4.7MF B (1608)
C545	1-112-746-91	s	CAP, CERAMIC 4.7MF B (1608)
C546	1-112-746-91	s	CAP, CERAMIC 4.7MF B (1608)
C547	1-112-746-91	s	CAP, CERAMIC 4.7MF B (1608)
C548	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C549	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C550	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C551	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C552	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C553	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C554	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C555	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C556	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C557	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C558	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C559	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C560	1-112-015-91	s	CAP, CHIP CERAMIC 47MF B 3225
C561	1-112-746-91	s	CAP, CERAMIC 4.7MF B (1608)
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)

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Ref. No. or Q'ty	Part No.	SP	Description
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	1-112-746-91	s	CAP, CERAMIC 4.7MF B (1608)
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)
C622	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C623	1-165-989-91	s	CAP, CERAMIC 10MF (2012)
C624	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)

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Ref. No. or Q'ty	Part No.	SP	Description
C625	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C626	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C627	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C628	1-112-324-91	s	CAP, CERAMIC 0.47MF C (1005)
C630	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C631	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C632	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C633	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C634	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C635	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C636	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C637	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C638	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C639	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C640	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C641	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C642	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C643	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C644	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C645	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C646	1-165-989-91	s	CAP, CERAMIC 10MF (2012)
C647	1-165-989-91	s	CAP, CERAMIC 10MF (2012)
C648	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C649	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C650	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C651	1-165-989-91	s	CAP, CERAMIC 10MF (2012)
C652	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C653	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C654	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C655	1-112-324-91	s	CAP, CERAMIC 0.47MF C (1005)
C656	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C657	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C658	1-112-746-91	s	CAP, CERAMIC 4.7MF B (1608)
C659	1-112-746-91	s	CAP, CERAMIC 4.7MF B (1608)
C660	1-165-989-91	s	CAP, CERAMIC 10MF (2012)
C661	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)
C923	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C924	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)
C929	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C930	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C931	1-112-746-91	s	CAP, CERAMIC 4.7MF B (1608)
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)

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Ref. No. or Q'ty	Part No.	SP	Description
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)
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)
CN103	1-695-480-21	o	PIN, CONNECTOR (PC BOARD) 2P
CN104	1-770-470-21	s	PIN, CONNECTOR (PC BOARD) 6P
CN105	1-815-921-11	s	JACK, MODULAR
CN401	1-793-324-11	o	CONNECTOR, COAXIAL (BNC TYPE)
CN402	1-764-080-21	o	PIN, CONNECTOR (PC BOARD) 8P
CN603	1-817-176-11	s	CONNECTOR, SFP FIBER CHANNEL
CN901	1-793-324-11	o	CONNECTOR, COAXIAL (BNC TYPE)
D1	8-719-083-60	s	DI UDZSUSTE-174.7B
D2	8-719-083-60	s	DI UDZSUSTE-174.7B
D5	8-719-024-81	s	DIODE 1SS300-TE85L
D101	8-719-024-81	s	DIODE 1SS300-TE85L
D102	8-719-024-81	s	DIODE 1SS300-TE85L
D103	8-719-024-81	s	DIODE 1SS300-TE85L
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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Ref. No. or Q'ty	Part No.	SP	Description
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
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
FB1	1-469-094-21	s	FERRITE, EMI (SMD) (1608)
FB2	1-469-094-21	s	FERRITE, EMI (SMD) (1608)
FB3	1-469-094-21	s	FERRITE, EMI (SMD) (1608)
FB4	1-469-094-21	s	FERRITE, EMI (SMD) (1608)
FB5	1-469-094-21	s	FERRITE, EMI (SMD) (1608)
FB6	1-469-094-21	s	FERRITE, EMI (SMD) (1608)
FB7	1-469-094-21	s	FERRITE, EMI (SMD) (1608)
FB8	1-469-094-21	s	FERRITE, EMI (SMD) (1608)
FB9	1-469-094-21	s	FERRITE, EMI (SMD) (1608)
FB10	1-469-094-21	s	FERRITE, EMI (SMD) (1608)
FB11	1-469-094-21	s	FERRITE, EMI (SMD) (1608)
FB101	1-469-094-21	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)
FB616	1-400-382-21	s	EMI FERRITE (SMD) (1608)
FB617	1-469-094-21	s	FERRITE, EMI (SMD) (1608)
FB901	1-469-094-21	s	FERRITE, EMI (SMD) (1608)
FB902	1-469-094-21	s	FERRITE, EMI (SMD) (1608)
FB903	1-469-094-21	s	FERRITE, EMI (SMD) (1608)

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Ref. No. or Q'ty	Part No.	SP	Description
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)
IC1	8-759-327-01	s	IC NJM062V(TE2)
IC2	8-759-327-01	s	IC NJM062V(TE2)
IC3	6-704-976-01	s	IC ADR381ARTZ-REEL7
IC4	8-759-327-01	s	IC NJM062V(TE2)
IC5	6-706-482-01	s	IC TC7SH00FU(T5RSOYJF)
IC6	6-704-512-01	s	IC TPS62050DGSR
IC7	6-704-512-01	s	IC TPS62050DGSR
IC8	6-701-572-01	s	IC TPS54610PWPR
IC9	8-759-338-95	s	IC NJM2903V(TE2)
IC10	8-759-338-95	s	IC NJM2903V(TE2)
IC11	6-712-135-01	o	IC R1173H001D-T1-F
IC12	6-712-135-01	o	IC R1173H001D-T1-F
IC101	8-759-338-95	s	IC NJM2903V(TE2)
IC102	8-759-338-95	s	IC NJM2903V(TE2)
IC103	6-707-858-01	s	IC TC74VHC00FT(EKJ)
IC104	8-759-327-01	s	IC NJM062V(TE2)
IC105	8-759-327-01	s	IC NJM062V(TE2)
IC106	8-759-346-27	s	IC LM45BIM3X
IC107	8-759-523-01	s	IC TC74HC4052AFT(EL)
IC108	6-708-346-01	s	IC DAC7512N
IC207	6-707-875-01	s	IC TC74VHC245FT(EKJ)
IC208	6-706-487-01	s	IC TC7SH08FU(T5RSOYJF)
IC209	8-759-592-42	s	IC TC7SZ00FU(TE85R)
IC210	6-700-804-01	s	IC SN74LVC574APWR
IC211	6-700-804-01	s	IC SN74LVC574APWR
IC212	6-700-804-01	s	IC SN74LVC574APWR
IC213	8-759-592-42	s	IC TC7SZ00FU(TE85R)
IC214	8-759-592-42	s	IC TC7SZ00FU(TE85R)
IC215	8-759-592-42	s	IC TC7SZ00FU(TE85R)
IC216	6-700-804-01	s	IC SN74LVC574APWR
IC217	6-700-804-01	s	IC SN74LVC574APWR
IC218	6-700-804-01	s	IC SN74LVC574APWR
IC401	6-700-804-01	s	IC SN74LVC574APWR
IC402	6-700-804-01	s	IC SN74LVC574APWR
IC403	6-700-804-01	s	IC SN74LVC574APWR
IC404	6-703-875-01	s	IC CDCVF2505PWR
IC405	6-707-875-01	s	IC TC74VHC245FT(EKJ)
IC406	6-703-875-01	s	IC CDCVF2505PWR
IC407	6-702-879-01	s	IC R3112N281A-TR-FA
IC408	6-707-863-01	s	IC TC74VHC08FT(EKJ)
IC409	6-706-487-01	s	IC TC7SH08FU(T5RSOYJF)
IC415	8-759-669-43	s	IC SN74LVC157APWR-12
IC426	6-700-804-01	s	IC SN74LVC574APWR
IC427	6-700-804-01	s	IC SN74LVC574APWR
IC428	6-700-804-01	s	IC SN74LVC574APWR
IC504	6-706-487-01	s	IC TC7SH08FU(T5RSOYJF)
IC505	8-759-592-50	s	IC TC7SZ126FU(TE85R)
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)

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Ref. No. or Q'ty	Part No.	SP	Description
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)
IC607	6-706-487-01	s	IC TC7SH08FU(T5RSOYJF)
IC608	6-709-612-01	s	IC GS1574ACNE3
IC609	6-706-484-01	s	IC TC7SH04FU(T5RSOYJF)
IC610	6-706-482-01	s	IC TC7SH00FU(T5RSOYJF)
IC611	6-706-487-01	s	IC TC7SH08FU(T5RSOYJF)
IC612	6-706-483-01	s	IC TC7SH02FU(T5RSOYJF)
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 MC100LVEL11DTR2
IC904	6-710-109-01	s	IC NB100LVEP56MNR2G
IC905	6-715-439-01	s	IC CDCM7005ZVAT
IC906	6-715-439-01	s	IC CDCM7005ZVAT
IC908	6-702-535-01	s	IC MC100LVEL11DTR2
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)
JC3	1-216-864-91	s	CONDUCTOR, CHIP (1608)
JC4	1-216-864-91	s	CONDUCTOR, CHIP (1608)
JC5	1-216-864-91	s	CONDUCTOR, CHIP (1608)
JC6	1-216-864-91	s	CONDUCTOR, CHIP (1608)
JC101	1-218-990-81	s	CONDUCTOR, CHIP (1005)
JC102	1-218-990-81	s	CONDUCTOR, CHIP (1005)
L1	1-414-392-41	s	INDUCTOR (SMD) 1.0UH
L2	1-414-398-41	s	INDUCTOR (SMD) 10.0UH
L3	1-414-398-41	s	INDUCTOR (SMD) 10.0UH
L4	1-414-398-41	s	INDUCTOR (SMD) 10.0UH
L5	1-416-344-21	s	COIL, CHOKE 10UH
L6	1-416-344-21	s	COIL, CHOKE 10UH
L7	1-416-344-21	s	COIL, CHOKE 10UH
L8	1-416-948-21	s	COIL, CHOKE (SMD) 10UH
L9	1-414-398-41	s	INDUCTOR (SMD) 10.0UH
L10	1-414-398-41	s	INDUCTOR (SMD) 10.0UH
L101	1-414-392-41	s	INDUCTOR (SMD) 1.0UH
L102	1-457-205-21	s	COIL, CHOKE (SMD) 3.3UH
L205	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
L603	1-414-461-41	s	INDUCTOR, CHIP (K) 6.8NH
L604	1-414-457-21	s	INDUCTOR, CHIP (S) 3.3NH
L605	1-414-457-21	s	INDUCTOR, CHIP (S) 3.3NH
L606	1-414-461-41	s	INDUCTOR, CHIP (K) 6.8NH
L901	1-414-392-41	s	INDUCTOR (SMD) 1.0UH
L902	1-414-392-41	s	INDUCTOR (SMD) 1.0UH
Q1	8-729-209-73	s	TRANSISTOR 2SA1213Y-TE12L
Q2	8-729-928-05	s	TRANSISTOR 2SC4617TL-QR
Q3	8-729-035-99	s	TRANSISTOR 2SA1615-Z-E2
Q4	8-729-928-05	s	TRANSISTOR 2SC4617TL-QR
Q5	8-729-928-25	s	TRANSISTOR 2SA1774TL-QR
Q6	8-729-928-05	s	TRANSISTOR 2SC4617TL-QR
Q7	8-729-928-25	s	TRANSISTOR 2SA1774TL-QR
Q8	8-729-928-05	s	TRANSISTOR 2SC4617TL-QR
Q9	8-729-928-05	s	TRANSISTOR 2SC4617TL-QR
Q101	8-729-928-25	s	TRANSISTOR 2SA1774TL-QR
Q102	8-729-928-25	s	TRANSISTOR 2SA1774TL-QR

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Ref. No. or Q'ty	Part No.	SP	Description
Q103	8-729-928-05	s	TRANSISTOR 2SC4617TL-QR
Q104	8-729-928-05	s	TRANSISTOR 2SC4617TL-QR
Q105	8-729-928-25	s	TRANSISTOR 2SA1774TL-QR
Q106	8-729-928-25	s	TRANSISTOR 2SA1774TL-QR
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
Q624	8-729-928-28	s	TRANSISTOR DTA144EE-TL
Q625	8-729-928-82	s	TRANSISTOR DTC144EE-TL
Q626	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	1-208-871-81	s	RES, CHIP 220 (1005)
R3	1-208-895-81	s	RES, CHIP 2.2K (1005)
R4	1-208-923-81	s	RES, CHIP 33K (1005)
R5	1-208-923-81	s	RES, CHIP 33K (1005)
R6	1-208-863-81	s	RES, CHIP 100 (1005)
R7	1-208-871-81	s	RES, CHIP 220 (1005)
R8	1-208-895-81	s	RES, CHIP 2.2K (1005)
R9	1-208-923-81	s	RES, CHIP 33K (1005)
R10	1-208-923-81	s	RES, CHIP 33K (1005)
R11	1-208-919-81	s	RES, CHIP 22K (1005)
R12	1-208-923-81	s	RES, CHIP 33K (1005)
R13	1-208-911-81	s	RES, CHIP 10K (1005)
R14	1-208-871-81	s	RES, CHIP 220 (1005)
R15	1-208-871-81	s	RES, CHIP 220 (1005)
R16	1-208-923-81	s	RES, CHIP 33K (1005)

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Ref. No. or Q'ty	Part No.	SP	Description
R17	1-208-923-81	s	RES, CHIP 33K (1005)
R18	1-208-931-81	s	RES, CHIP 68K (1005)
R19	1-208-931-81	s	RES, CHIP 68K (1005)
R20	1-208-927-81	s	RES, CHIP 47K (1005)
R21	1-208-903-81	s	RES, CHIP 4.7K (1005)
R22	1-208-939-81	s	RES, CHIP 150K (1005)
R23	1-208-923-81	s	RES, CHIP 33K (1005)
R24	1-208-927-81	s	RES, CHIP 47K (1005)
R25	1-208-927-81	s	RES, CHIP 47K (1005)
R28	1-208-887-81	s	RES, CHIP 1.0K (1005)
R29	1-208-887-81	s	RES, CHIP 1.0K (1005)
R30	1-208-887-81	s	RES, CHIP 1.0K (1005)
R31	1-208-911-81	s	RES, CHIP 10K (1005)
R33	1-208-939-81	s	RES, CHIP 150K (1005)
R34	1-208-939-81	s	RES, CHIP 150K (1005)
R35	1-208-935-81	s	RES, CHIP 100K (1005)
R36	1-208-923-81	s	RES, CHIP 33K (1005)
R37	1-208-911-81	s	RES, CHIP 10K (1005)
R39	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R40	1-208-871-81	s	RES, CHIP 220 (1005)
R41	1-208-887-81	s	RES, CHIP 1.0K (1005)
R43	1-208-955-81	s	RES, CHIP 680K (1005)
R44	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R45	1-208-939-81	s	RES, CHIP 150K (1005)
R46	1-208-911-81	s	RES, CHIP 10K (1005)
R47	1-208-911-81	s	RES, CHIP 10K (1005)
R48	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R49	1-208-871-81	s	RES, CHIP 220 (1005)
R50	1-208-887-81	s	RES, CHIP 1.0K (1005)
R51	1-208-923-81	s	RES, CHIP 33K (1005)
R52	1-208-895-81	s	RES, CHIP 2.2K (1005)
R53	1-208-915-81	s	RES, CHIP 15K (1005)
R54	1-208-919-81	s	RES, CHIP 22K (1005)
R55	1-208-911-81	s	RES, CHIP 10K (1005)
R56	1-208-895-81	s	RES, CHIP 2.2K (1005)
R57	1-208-915-81	s	RES, CHIP 15K (1005)
R58	1-208-919-81	s	RES, CHIP 22K (1005)
R59	1-208-907-81	s	RES, CHIP 6.8K (1005)
R60	1-208-927-81	s	RES, CHIP 47K (1005)
R61	1-208-931-81	s	RES, CHIP 68K (1005)
R62	1-208-911-81	s	RES, CHIP 10K (1005)
R63	1-208-907-81	s	RES, CHIP 6.8K (1005)
R64	1-208-915-81	s	RES, CHIP 15K (1005)
R65	1-208-895-81	s	RES, CHIP 2.2K (1005)
R66	1-208-911-81	s	RES, CHIP 10K (1005)
R67	1-208-911-81	s	RES, CHIP 10K (1005)
R68	1-208-911-81	s	RES, CHIP 10K (1005)
R69	1-208-871-81	s	RES, CHIP 220 (1005)
R70	1-208-867-81	s	RES, CHIP 150 (1005)
R71	1-208-887-81	s	RES, CHIP 1.0K (1005)
R72	1-208-871-81	s	RES, CHIP 220 (1005)
R73	1-208-903-81	s	RES, CHIP 4.7K (1005)
R74	1-208-927-81	s	RES, CHIP 47K (1005)
R75	1-208-895-81	s	RES, CHIP 2.2K (1005)
R76	1-208-895-81	s	RES, CHIP 2.2K (1005)
R77	1-208-895-81	s	RES, CHIP 2.2K (1005)
R78	1-208-911-81	s	RES, CHIP 10K (1005)
R79	1-208-911-81	s	RES, CHIP 10K (1005)
R80	1-208-927-81	s	RES, CHIP 47K (1005)

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Ref. No. or Q'ty	Part No.	SP	Description
R81	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R82	1-208-931-81	s	RES, CHIP 68K (1005)
R83	1-208-891-81	s	RES, CHIP 1.5K (1005)
R84	1-208-863-81	s	RES, CHIP 100 (1005)
R85	1-208-895-81	s	RES, CHIP 2.2K (1005)
R86	1-208-915-81	s	RES, CHIP 15K (1005)
R87	1-208-891-81	s	RES, CHIP 1.5K (1005)
R88	1-208-891-81	s	RES, CHIP 1.5K (1005)
R99	1-220-882-81	s	RES, CHIP 33 (1005)
R101	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R102	1-208-887-81	s	RES, CHIP 1.0K (1005)
R103	1-208-911-81	s	RES, CHIP 10K (1005)
R104	1-208-911-81	s	RES, CHIP 10K (1005)
R105	1-208-919-81	s	RES, CHIP 22K (1005)
R106	1-208-879-81	s	RES, CHIP 470 (1005)
R107	1-208-903-81	s	RES, CHIP 4.7K (1005)
R108	1-208-903-81	s	RES, CHIP 4.7K (1005)
R109	1-208-899-81	s	RES, CHIP 3.3K (1005)
R110	1-208-875-81	s	RES, CHIP 330 (1005)
R111	1-208-903-81	s	RES, CHIP 4.7K (1005)
R112	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R113	1-208-907-81	s	RES, CHIP 6.8K (1005)
R114	1-208-891-81	s	RES, CHIP 1.5K (1005)
R115	1-208-911-81	s	RES, CHIP 10K (1005)
R116	1-208-911-81	s	RES, CHIP 10K (1005)
R117	1-208-911-81	s	RES, CHIP 10K (1005)
R118	1-220-264-91	s	RES,SQUARE TYPE CHIP 1.0K 3225
R120	1-208-935-81	s	RES, CHIP 100K (1005)
R121	1-208-907-81	s	RES, CHIP 6.8K (1005)
R122	1-208-911-81	s	RES, CHIP 10K (1005)
R123	1-208-895-81	s	RES, CHIP 2.2K (1005)
R124	1-208-927-81	s	RES, CHIP 47K (1005)
R125	1-208-919-81	s	RES, CHIP 22K (1005)
R126	1-208-919-81	s	RES, CHIP 22K (1005)
R127	1-208-927-81	s	RES, CHIP 47K (1005)
R128	1-208-927-81	s	RES, CHIP 47K (1005)
R129	1-208-927-81	s	RES, CHIP 47K (1005)
R130	1-208-911-81	s	RES, CHIP 10K (1005)
R131	1-208-895-81	s	RES, CHIP 2.2K (1005)
R132	1-208-907-81	s	RES, CHIP 6.8K (1005)
R133	1-208-919-81	s	RES, CHIP 22K (1005)
R134	1-208-919-81	s	RES, CHIP 22K (1005)
R135	1-208-927-81	s	RES, CHIP 47K (1005)
R136	1-208-927-81	s	RES, CHIP 47K (1005)
R139	1-208-927-81	s	RES, CHIP 47K (1005)
R140	1-208-927-81	s	RES, CHIP 47K (1005)
R141	1-208-895-81	s	RES, CHIP 2.2K (1005)
R142	1-208-907-81	s	RES, CHIP 6.8K (1005)
R143	1-208-911-81	s	RES, CHIP 10K (1005)
R144	1-208-911-81	s	RES, CHIP 10K (1005)
R145	1-208-887-81	s	RES, CHIP 1.0K (1005)
R146	1-208-911-81	s	RES, CHIP 10K (1005)
R147	1-208-887-81	s	RES, CHIP 1.0K (1005)
R148	1-208-927-81	s	RES, CHIP 47K (1005)
R149	1-208-863-81	s	RES, CHIP 100 (1005)
R150	1-208-927-81	s	RES, CHIP 47K (1005)
R151	1-208-863-81	s	RES, CHIP 100 (1005)
R152	1-208-863-81	s	RES, CHIP 100 (1005)
R154	1-208-863-81	s	RES, CHIP 100 (1005)

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Ref. No. or Q'ty	Part No.	SP	Description
R155	1-208-863-81	s	RES, CHIP 100 (1005)
R157	1-208-935-81	s	RES, CHIP 100K (1005)
R158	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R159	1-208-935-81	s	RES, CHIP 100K (1005)
R161	1-208-863-81	s	RES, CHIP 100 (1005)
R162	1-208-863-81	s	RES, CHIP 100 (1005)
R163	1-208-863-81	s	RES, CHIP 100 (1005)
R164	1-208-863-81	s	RES, CHIP 100 (1005)
R165	1-208-911-81	s	RES, CHIP 10K (1005)
R166	1-208-887-81	s	RES, CHIP 1.0K (1005)
R167	1-242-967-81	s	RES, CHIP 1.0 (1005)
R168	1-242-967-81	s	RES, CHIP 1.0 (1005)
R169	1-242-967-81	s	RES, CHIP 1.0 (1005)
R170	1-242-967-81	s	RES, CHIP 1.0 (1005)
R171	1-242-967-81	s	RES, CHIP 1.0 (1005)
R172	1-242-967-81	s	RES, CHIP 1.0 (1005)
R173	1-216-789-91	s	RES, CHIP 2.2 (1608)
R174	1-216-789-91	s	RES, CHIP 2.2 (1608)
R175	1-216-789-91	s	RES, CHIP 2.2 (1608)
R260	1-220-870-81	s	RES, CHIP 10 (1005)
R261	1-208-863-81	s	RES, CHIP 100 (1005)
R262	1-220-870-81	s	RES, CHIP 10 (1005)
R263	1-208-871-81	s	RES, CHIP 220 (1005)
R264	1-208-863-81	s	RES, CHIP 100 (1005)
R268	1-208-871-81	s	RES, CHIP 220 (1005)
R269	1-208-871-81	s	RES, CHIP 220 (1005)
R271	1-208-855-81	s	RES, CHIP 47 (1005)
R272	1-208-855-81	s	RES, CHIP 47 (1005)
R287	1-208-863-81	s	RES, CHIP 100 (1005)
R293	1-220-870-81	s	RES, CHIP 10 (1005)
R295	1-220-870-81	s	RES, CHIP 10 (1005)
R297	1-208-855-81	s	RES, CHIP 47 (1005)
R298	1-208-855-81	s	RES, CHIP 47 (1005)
R300	1-208-855-81	s	RES, CHIP 47 (1005)
R301	1-208-855-81	s	RES, CHIP 47 (1005)
R302	1-208-855-81	s	RES, CHIP 47 (1005)
R303	1-208-911-81	s	RES, CHIP 10K (1005)
R304	1-208-863-81	s	RES, CHIP 100 (1005)
R311	1-208-863-81	s	RES, CHIP 100 (1005)
R312	1-208-863-81	s	RES, CHIP 100 (1005)
R313	1-208-863-81	s	RES, CHIP 100 (1005)
R315	1-208-855-81	s	RES, CHIP 47 (1005)
R317	1-208-855-81	s	RES, CHIP 47 (1005)
R318	1-208-855-81	s	RES, CHIP 47 (1005)
R319	1-208-855-81	s	RES, CHIP 47 (1005)
R320	1-208-911-81	s	RES, CHIP 10K (1005)
R321	1-208-863-81	s	RES, CHIP 100 (1005)
R366	1-208-871-81	s	RES, CHIP 220 (1005)
R367	1-208-871-81	s	RES, CHIP 220 (1005)
R374	1-208-855-81	s	RES, CHIP 47 (1005)
R377	1-220-870-81	s	RES, CHIP 10 (1005)
R379	1-208-903-81	s	RES, CHIP 4.7K (1005)
R381	1-220-870-81	s	RES, CHIP 10 (1005)
R382	1-220-870-81	s	RES, CHIP 10 (1005)
R386	1-220-870-81	s	RES, CHIP 10 (1005)
R387	1-220-870-81	s	RES, CHIP 10 (1005)
R388	1-220-870-81	s	RES, CHIP 10 (1005)
R389	1-220-870-81	s	RES, CHIP 10 (1005)
R391	1-208-863-81	s	RES, CHIP 100 (1005)

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R392	1-220-870-81	s	RES, CHIP 10 (1005)
R393	1-208-911-81	s	RES, CHIP 10K (1005)
R394	1-208-911-81	s	RES, CHIP 10K (1005)
R395	1-220-870-81	s	RES, CHIP 10 (1005)
R396	1-208-935-81	s	RES, CHIP 100K (1005)
R397	1-208-911-81	s	RES, CHIP 10K (1005)
R401	1-220-870-81	s	RES, CHIP 10 (1005)
R403	1-208-863-81	s	RES, CHIP 100 (1005)
R404	1-208-863-81	s	RES, CHIP 100 (1005)
R405	1-208-863-81	s	RES, CHIP 100 (1005)
R406	1-220-870-81	s	RES, CHIP 10 (1005)
R407	1-220-870-81	s	RES, CHIP 10 (1005)
R409	1-220-870-81	s	RES, CHIP 10 (1005)
R410	1-208-903-81	s	RES, CHIP 4.7K (1005)
R412	1-220-870-81	s	RES, CHIP 10 (1005)
R413	1-220-870-81	s	RES, CHIP 10 (1005)
R414	1-208-871-81	s	RES, CHIP 220 (1005)
R415	1-208-855-81	s	RES, CHIP 47 (1005)
R416	1-208-871-81	s	RES, CHIP 220 (1005)
R417	1-208-871-81	s	RES, CHIP 220 (1005)
R419	1-208-863-81	s	RES, CHIP 100 (1005)
R420	1-208-863-81	s	RES, CHIP 100 (1005)
R422	1-208-871-81	s	RES, CHIP 220 (1005)
R423	1-208-863-81	s	RES, CHIP 100 (1005)
R424	1-208-935-81	s	RES, CHIP 100K (1005)
R425	1-208-863-81	s	RES, CHIP 100 (1005)
R426	1-208-863-81	s	RES, CHIP 100 (1005)
R427	1-208-935-81	s	RES, CHIP 100K (1005)
R433	1-208-855-81	s	RES, CHIP 47 (1005)
R437	1-208-863-81	s	RES, CHIP 100 (1005)
R438	1-208-863-81	s	RES, CHIP 100 (1005)
R439	1-208-863-81	s	RES, CHIP 100 (1005)
R442	1-208-871-81	s	RES, CHIP 220 (1005)
R443	1-208-863-81	s	RES, CHIP 100 (1005)
R444	1-208-863-81	s	RES, CHIP 100 (1005)
R445	1-208-863-81	s	RES, CHIP 100 (1005)
R446	1-208-863-81	s	RES, CHIP 100 (1005)
R451	1-208-863-81	s	RES, CHIP 100 (1005)
R452	1-208-863-81	s	RES, CHIP 100 (1005)
R453	1-208-863-81	s	RES, CHIP 100 (1005)
R454	1-208-863-81	s	RES, CHIP 100 (1005)
R455	1-208-863-81	s	RES, CHIP 100 (1005)
R456	1-208-863-81	s	RES, CHIP 100 (1005)
R463	1-208-863-81	s	RES, CHIP 100 (1005)
R464	1-208-863-81	s	RES, CHIP 100 (1005)
R465	1-208-863-81	s	RES, CHIP 100 (1005)
R466	1-208-863-81	s	RES, CHIP 100 (1005)
R468	1-208-863-81	s	RES, CHIP 100 (1005)
R469	1-208-863-81	s	RES, CHIP 100 (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)

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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)
R521	1-208-863-81	s	RES, CHIP 100 (1005)
R523	1-208-895-81	s	RES, CHIP 2.2K (1005)
R525	1-208-863-81	s	RES, CHIP 100 (1005)
R526	1-208-875-81	s	RES, CHIP 330 (1005)
R527	1-208-903-81	s	RES, CHIP 4.7K (1005)
R529	1-218-990-81	s	CONDUCTOR, CHIP (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)
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	1-208-855-81	s	RES, CHIP 47 (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	1-208-863-81	s	RES, CHIP 100 (1005)
R626	1-208-863-81	s	RES, CHIP 100 (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)
R648	1-208-911-81	s	RES, CHIP 10K (1005)
R649	1-208-863-81	s	RES, CHIP 100 (1005)
R650	1-208-863-81	s	RES, CHIP 100 (1005)
R651	1-208-863-81	s	RES, CHIP 100 (1005)

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R652	1-208-863-81	s	RES, CHIP 100 (1005)
R653	1-208-863-81	s	RES, CHIP 100 (1005)
R654	1-208-863-81	s	RES, CHIP 100 (1005)
R655	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R656	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)
R675	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R678	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R680	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R685	1-208-860-81	s	RES, CHIP 75 (1005)
R686	1-208-860-81	s	RES, CHIP 75 (1005)
R687	1-208-860-81	s	RES, CHIP 75 (1005)
R688	1-208-860-81	s	RES, CHIP 75 (1005)
R689	1-208-919-81	s	RES, CHIP 22K (1005)
R690	1-208-911-81	s	RES, CHIP 10K (1005)
R691	1-208-919-81	s	RES, CHIP 22K (1005)
R692	1-208-935-81	s	RES, CHIP 100K (1005)
R696	1-208-935-81	s	RES, CHIP 100K (1005)
R697	1-208-863-81	s	RES, CHIP 100 (1005)
R698	1-208-863-81	s	RES, CHIP 100 (1005)
R699	1-208-935-81	s	RES, CHIP 100K (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)
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)
R946	1-208-879-81	s	RES, CHIP 470 (1005)
R947	1-208-883-81	s	RES, CHIP 680 (1005)
R948	1-208-879-81	s	RES, CHIP 470 (1005)
R949	1-208-883-81	s	RES, CHIP 680 (1005)

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R950	1-208-887-81	s	RES, CHIP 1.0K (1005)
R951	1-208-887-81	s	RES, CHIP 1.0K (1005)
R952	1-208-887-81	s	RES, CHIP 1.0K (1005)
R953	1-208-887-81	s	RES, CHIP 1.0K (1005)
R954	1-208-887-81	s	RES, CHIP 1.0K (1005)
R955	1-208-871-81	s	RES, CHIP 220 (1005)
R956	1-208-871-81	s	RES, CHIP 220 (1005)
R957	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R958	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R959	1-208-871-81	s	RES, CHIP 220 (1005)
R960	1-208-871-81	s	RES, CHIP 220 (1005)
R961	1-208-871-81	s	RES, CHIP 220 (1005)
R962	1-208-871-81	s	RES, CHIP 220 (1005)
R963	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R964	1-218-990-81	s	CONDUCTOR, CHIP (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)
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)
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)
R1004	1-208-871-81	s	RES, CHIP 220 (1005)
R1005	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)
R1013	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R1014	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)

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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)
RB201	1-234-373-21	s	RES, NETWORK 220 (1005X4)
RB202	1-234-373-21	s	RES, NETWORK 220 (1005X4)
RB203	1-234-373-21	s	RES, NETWORK 220 (1005X4)
RB204	1-234-373-21	s	RES, NETWORK 220 (1005X4)
RB205	1-234-373-21	s	RES, NETWORK 220 (1005X4)
RB206	1-234-373-21	s	RES, NETWORK 220 (1005X4)
RB207	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB208	1-234-373-21	s	RES, NETWORK 220 (1005X4)
RB209	1-234-373-21	s	RES, NETWORK 220 (1005X4)
RB210	1-234-373-21	s	RES, NETWORK 220 (1005X4)
RB211	1-234-373-21	s	RES, NETWORK 220 (1005X4)
RB212	1-234-373-21	s	RES, NETWORK 220 (1005X4)
RB213	1-234-373-21	s	RES, NETWORK 220 (1005X4)
RB214	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB215	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB216	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB217	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB218	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB219	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB220	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB221	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB222	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB223	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB224	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB225	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB228	1-234-373-21	s	RES, NETWORK 220 (1005X4)
RB401	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB402	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB403	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB404	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB405	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB406	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB407	1-234-372-21	s	RES, NETWORK 100 (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)
RB414	1-234-372-21	s	RES, NETWORK 100 (1005X4)

(SDP-16 BOARD (HKCU-HB10/15))

Ref. No. or Q'ty	Part No.	SP	Description
RB415	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB416	1-234-381-21	s	RES, NETWORK 100K (1005X4)
RB417	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB418	1-234-381-21	s	RES, NETWORK 100K (1005X4)
RB419	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB420	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB421	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB422	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB423	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB424	1-234-381-21	s	RES, NETWORK 100K (1005X4)
RB430	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB431	1-234-373-21	s	RES, NETWORK 220 (1005X4)
RB432	1-234-373-21	s	RES, NETWORK 220 (1005X4)
RB433	1-234-373-21	s	RES, NETWORK 220 (1005X4)
RB434	1-234-373-21	s	RES, NETWORK 220 (1005X4)
RB435	1-234-373-21	s	RES, NETWORK 220 (1005X4)
RB501	1-234-381-21	s	RES, NETWORK 100K (1005X4)
RB601	1-234-376-21	s	RES, NETWORK 2.2K (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)
S401	1-692-271-41	s	SWITCH, SLIDE
S402	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
TP1	1-694-974-21	s	CONTACT TERMINAL
TP2	1-694-974-21	s	CONTACT TERMINAL
TP3	1-694-974-21	s	CONTACT TERMINAL
TP4	1-694-974-21	s	CONTACT TERMINAL
TP5	1-694-974-21	s	CONTACT TERMINAL
TP6	1-694-974-21	s	CONTACT TERMINAL
TP401	1-535-877-22	s	CHIP, CHECKER
X901	1-795-670-12	s	OSCILLATOR, CRYSTAL (VCXO)3.3V
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)

5-4. Supplied Accessories

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---------
HKCU-HB10
---------
 Ref. No.
 or Q'ty Part No.     SP Description

 10pcs    3-725-295-21 s SCREW, (+) (B3)
 400pcs   7-632-452-24 s TAPE (NO.303) 18MMX35M YEL


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HKCU-HB15
---------
 Ref. No.
 or Q'ty Part No.     SP Description

 5pcs     3-725-295-21 s SCREW, (+) (B3)
 300pcs   7-632-452-24 s TAPE (NO.303) 18MMX35M YEL


--------
HKCU2005
--------
Ref. No.
 or Q'ty Part No.     SP Description

 150pcs   7-632-452-24 s TAPE (NO.303) 18MMX35M YEL
```

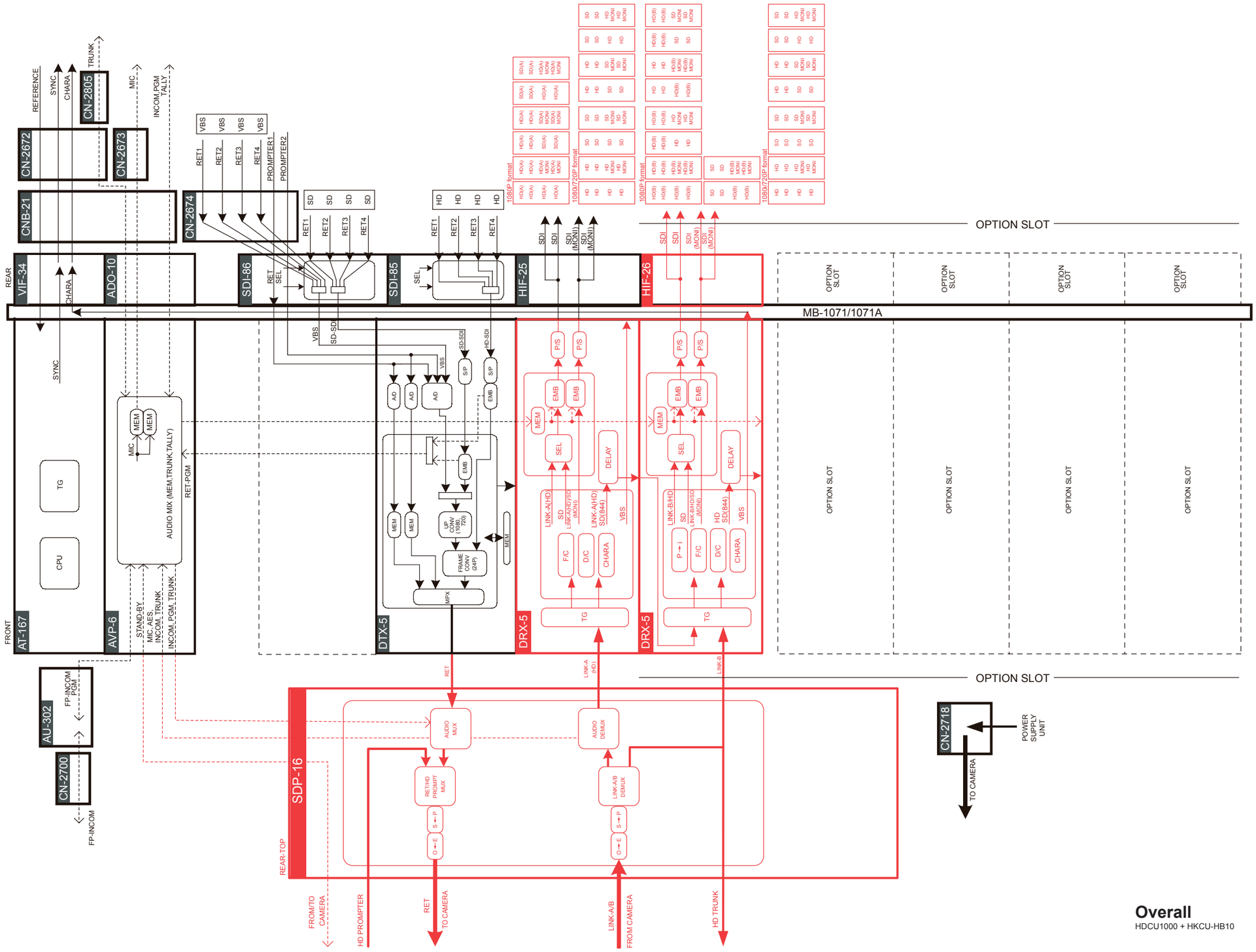
5-5. Optional Fixtures

```
 Part No.     SP Description

A-1153-700-A s MOUNTED CIRCUIT BOARD, EX-982
A-1153-701-A s MOUNTED CIRCUIT BOARD, EX-983
A-1153-715-A s MOUNTED CIRCUIT BOARD, EX-984
J-6480-010-A o ALIGNMENT SLEEVE REMOVER
J-7120-140-A o PLD DOWNLOAD JIG
```

Overall HDCU1000 + HKCU-HB10

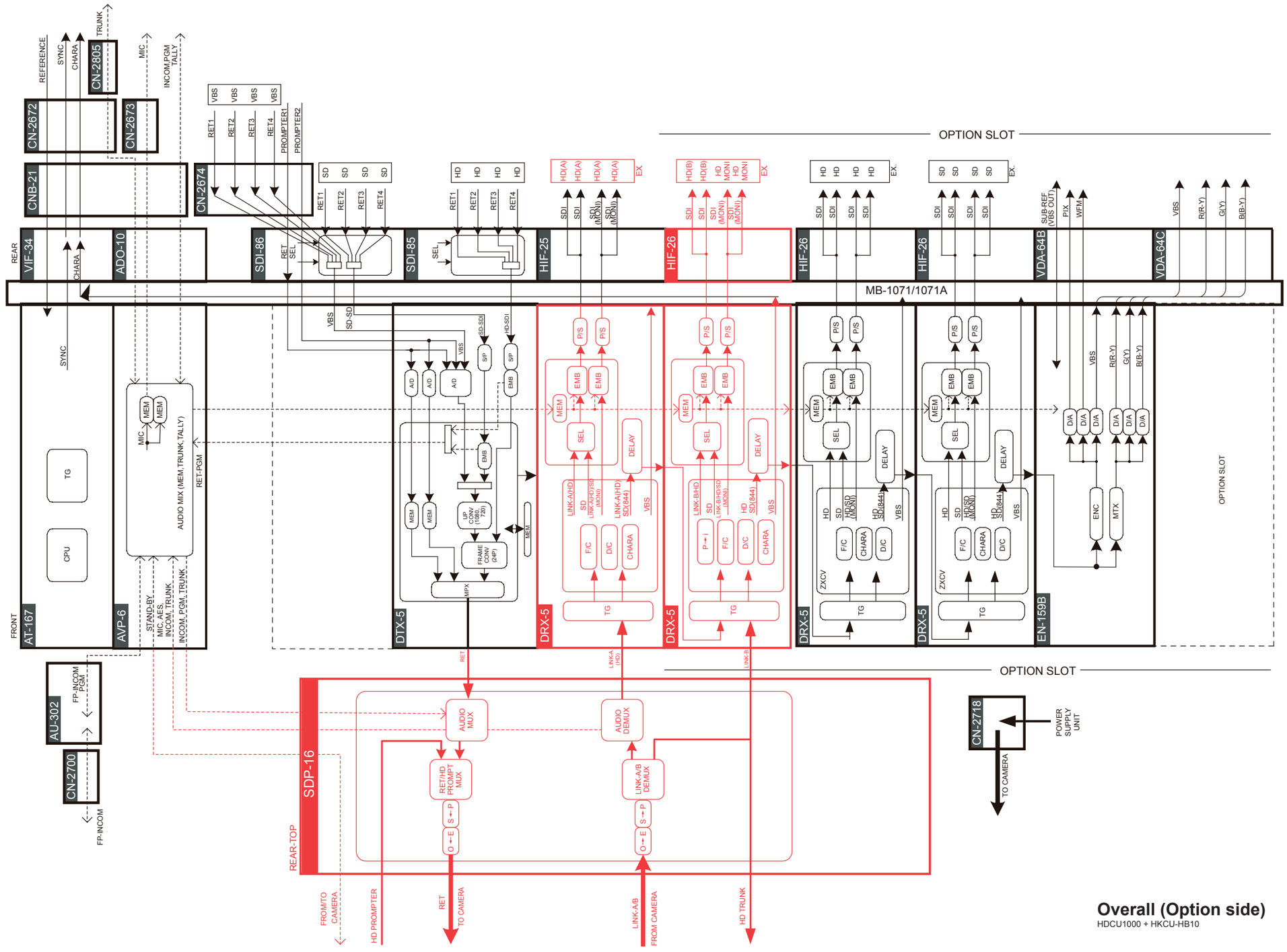
Section 6
Block Diagrams



Overall
HDCU1000 + HKCU-HB10

6-1

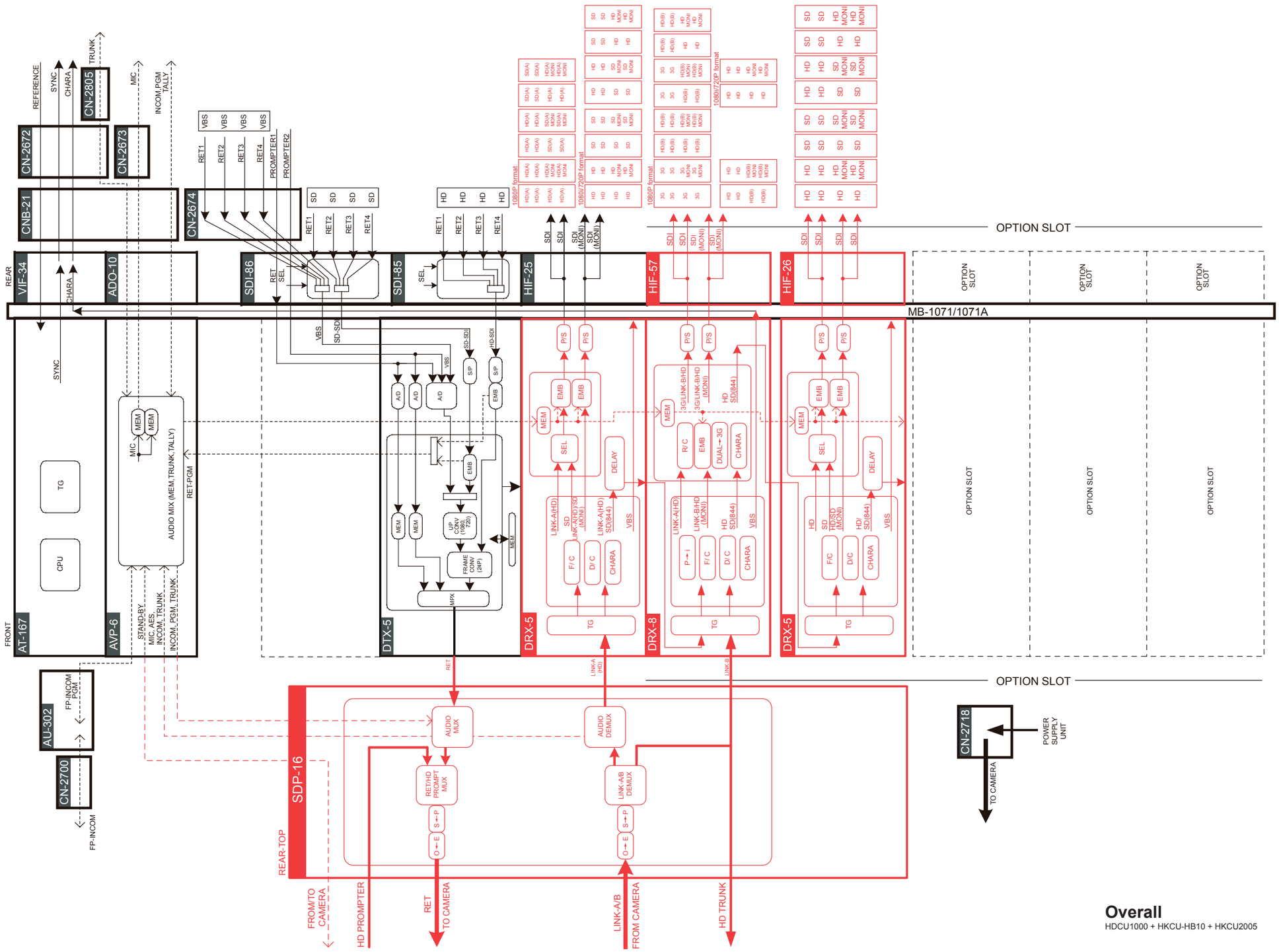
Overall (Option side) HDCU1000 + HKCU-HB10



Overall (Option side)
HDCU1000 + HKCU-HB10

6-2

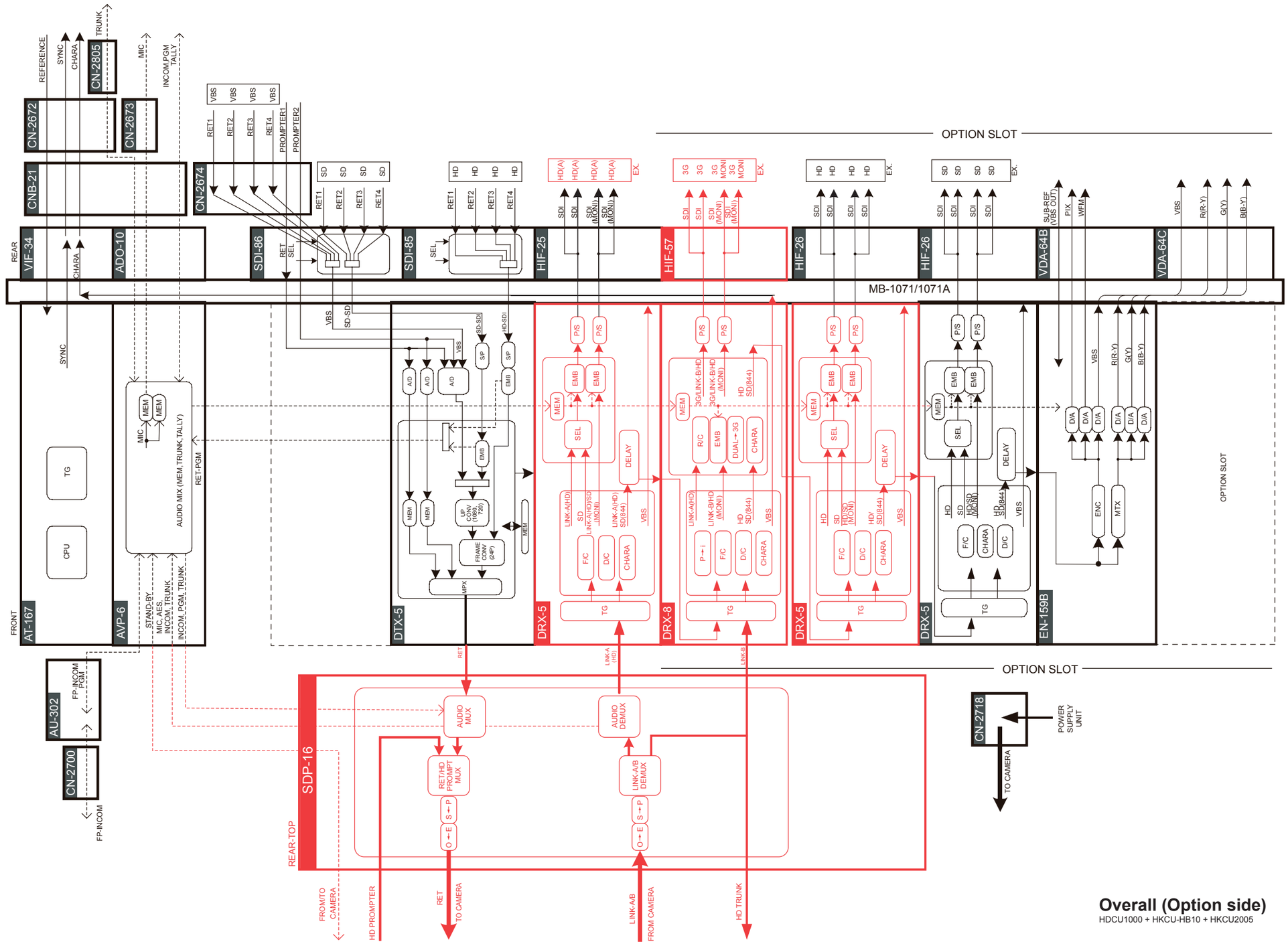
Overall HDCU1000 + HKCU-HB10 + HKCU2005



Overall
HDCU1000 + HKCU-HB10 + HKCU2005

6-3

Overall (Option side) HDCU1000 + HKCU-HB10 + HKCU2005

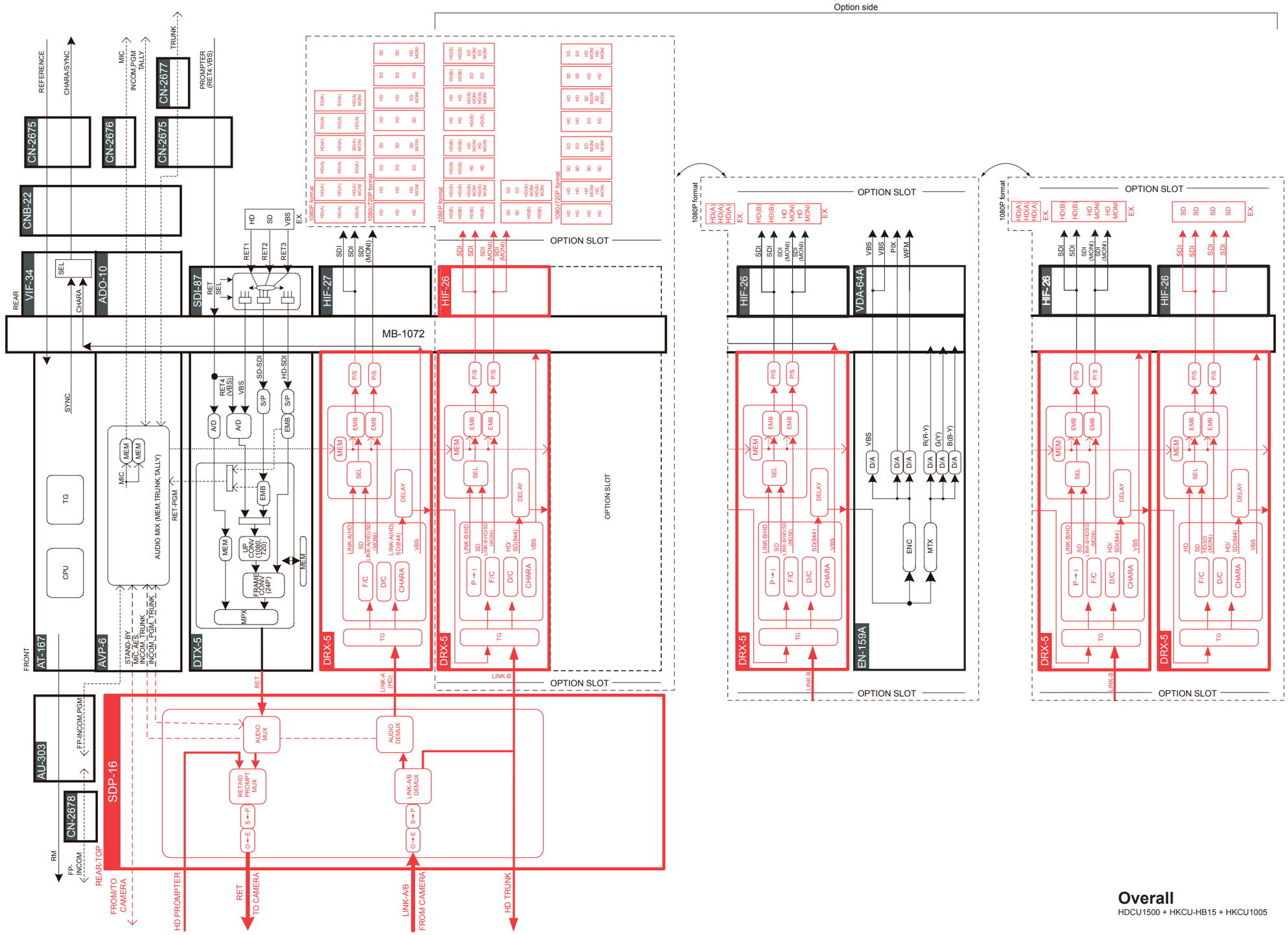


Overall (Option side)

HDCU1000 + HKCU-HB10 + HKCU2005

6-4

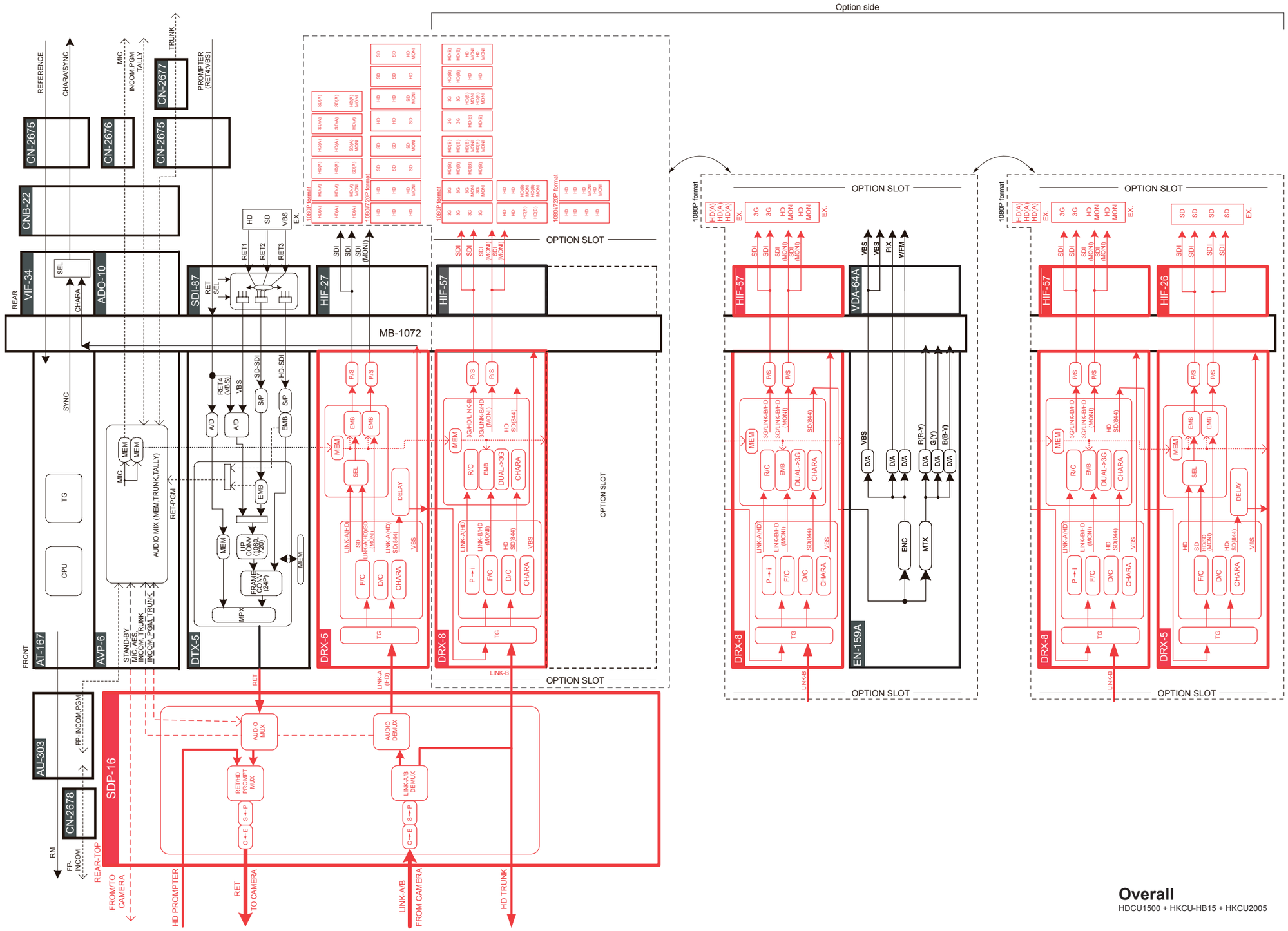
Overall HDCU1500 + HKCU-HB15 + HKCU1005



Overall
HDCU1500 + HKCU-HB15 + HKCU1005

6-5

Overall HDCU1500 + HKCU-HB15 + HKCU2005



Overall
HDCU1500 + HKCU-HB15 + HKCU2005

6-6

Section 7
Schematic Diagrams

Index

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CN-2672GA (HKCU-HB10)
SUFFIX: -42

REF in
SYNC out
MONITOR
AES/EBU

CN1 CN2 CN3 CN4 CN5 CN6 GND-V GND

CN15
REF (X) -in	1
REF (G) -in	2

R2 10 1/4W
VDR1
R1 10 NM

JC3 0 NM

RCP/CNU

CN7
1	TX-RCP-DATA (X)
2	TX-RCP-DATA (Y)
3	RX-RCP-DATA (X)
4	RX-RCP-DATA (Y)
5	TX-GND
6	UNREG-OUT
7	UNREG-GND
8	(P I X)

CN8
1	TX-RCP-DATA (X)
2	TX-RCP-DATA (Y)
3	RX-RCP-DATA (X)
4	RX-RCP-DATA (Y)
5	TX-GND
6	UNREG-OUT
7	UNREG-GND
8	(P I X)

JC1 0 NM, JC2 0 NM
C1 0.001uF, C2 0.001uF, C3 0.001uF, C4 0.001uF

FL1 FL2 FL3 FL4 FL5 FL6 FL7 FL8 EMI (IN OUT GND) GND

JC4 0 NM, JC5 0 NM, JC6 0 NM, JC7 0 NM

TRUNK
CN9
15	GND
14	422TX1 (X) /232TX1
13	422TX1 (Y)
12	422TX0 (Y)
11	422TX0 (X) /232TX0
10	GND
9	422RX0 (X) /232RX0
8	422RX0 (Y)
7	422RX1 (Y)
6	422RX1 (X) /232RX1
5	GND
4	(AUX-1)
3	(AUX-2)
2	(AUX-3)
1	GND

0.5mm. V. J6491

WFM CTL 1
CN10
1	SEQ CONT out (G)
2	SEQ CONT out (X)
3	Stair CASE out (X)
4	Stair CASE out (G)

ELCO 4pin

WFM CTL 2
CN11
1	SEQ CONT out (G)
2	SEQ CONT out (X)
3	Stair CASE out (X)
4	Stair CASE out (G)

ELCO 4pin

FL9 FL10 FL11 FL12

R3 4.7, R4 4.7

CN18
POV-700P-TR (X) -out	1
POV-700P-TR (Y) -out	2
GND	3
POV-700P-RC (X) -in	4
POV-700P-RC (Y) -in	5
GND	6

CN12
6	RTS1 i/o (GND)
5	RTS1 i/o (ENG)
4	RTS1 i/o (PROD)
3	RTS2 i/o (PROD)
2	RTS2 i/o (ENG)
1	RTS2 i/o (GND)

RTS1, 2
(Option)
1mm. H. L5127

CN13
6	MIC1 (G)
5	MIC1 (Y) out
4	MIC1 (X) out
3	MIC2 (X) out
2	MIC2 (Y) out
1	MIC2 (G)

MIC1, 2
1mm. H. L5127

CN14
GND	50
REF-in	49
GND	48
SYNC-out	47
GND	46
MONITOR	45
GND	44
spare-PIX-out	43
GND	42
GND	41
AES-X-out	40
AES-Y-out	39
TX (X) -1	38
TX (Y) -1	37
RX (X) -1	36
RX (Y) -1	35
TX/RX-GND	34
RCP-POW (+) -out	33
RCP-POW (+) -out	32
RCP-POW (GND) -out	31
RCP-POW (GND) -out	30
GND	29
422TX1 (X) /232TX1	28
422TX1 (Y)	27
422TX0 (Y)	26
422TX0 (X) /232TX0	25
422RX0 (X) /232RX0	24
422RX0 (Y)	23
422RX1 (Y)	22
422RX1 (X) /232RX1	21
(AUX-1)	20
(AUX-2)	19
(AUX-3)	18
GND	17
SEQ CONT out1 (X)	16
Stair CASE out1 (X)	15
GND	14
SEQ CONT out2 (X)	13
Stair CASE out2 (X)	12
GND	11
RTS1 i/o (PROD)	10
GND	9
RTS2 i/o (ENG)	8
GND	7
MIC1 (X) out	6
MIC1 (Y) out	5
MIC1 (G)	4
MIC2 (X) out	3
MIC2 (Y) out	2
MIC2 (G)	1

0.5mm. V. J6491 From CNB-21

A7 436931701
A8 436931701

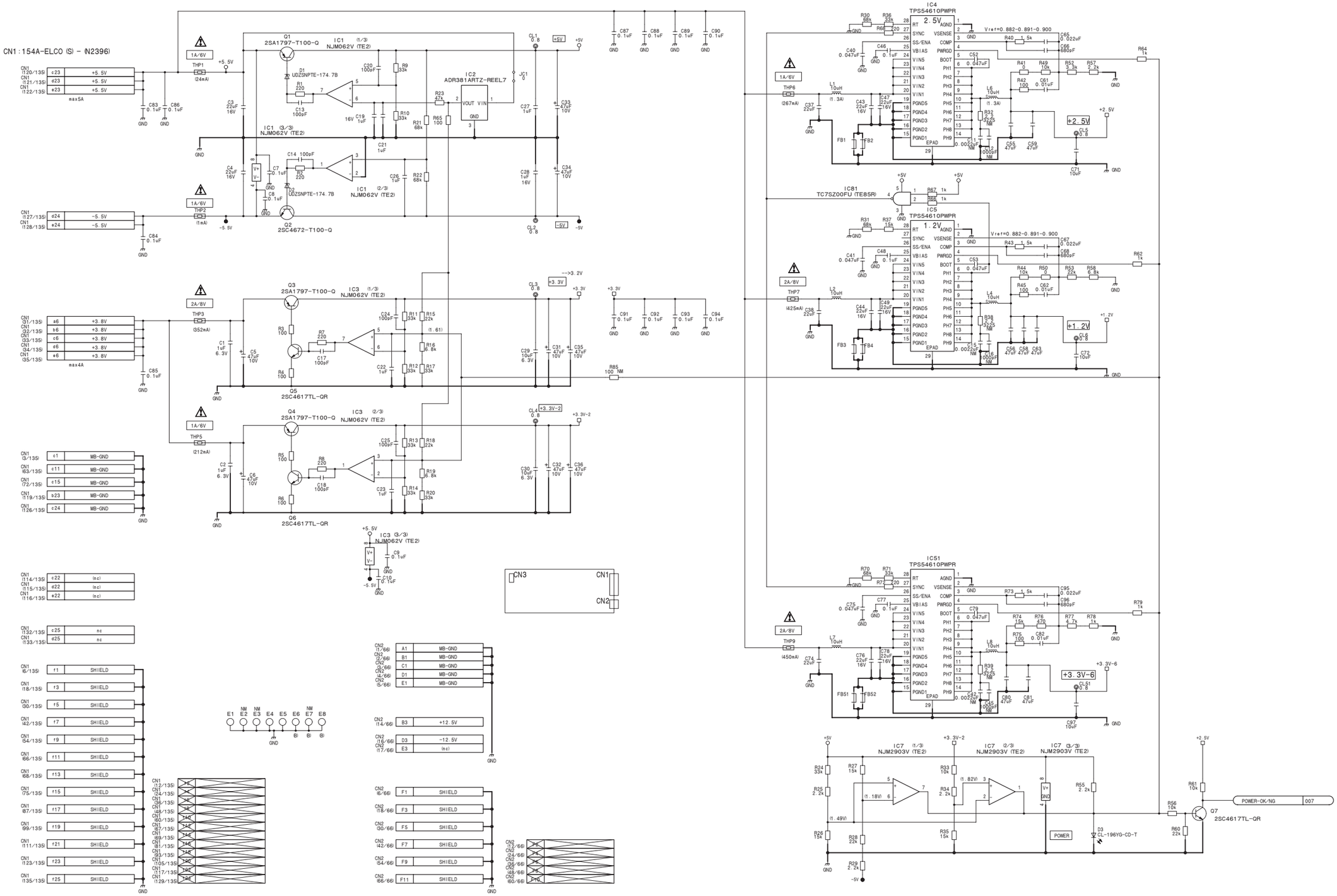
CN-2672GA
BOARD NO. 1-867-890-42
HDCU1000_CN-2672G_042_1

DRX-8 (1/10) (HKCU2005)

SUFFIX: -11

DRX-8 (1/10) (HKCU2005)

SUFFIX: -11



DRX-8 (1/10) (HKCU2005)

SUFFIX: -11

DRX-8 (1/10)

BOARD NO. 1-881-939-11

HKCU2005_DRX-8_011_1

DRX-8 (2/10) (HKCU2005)
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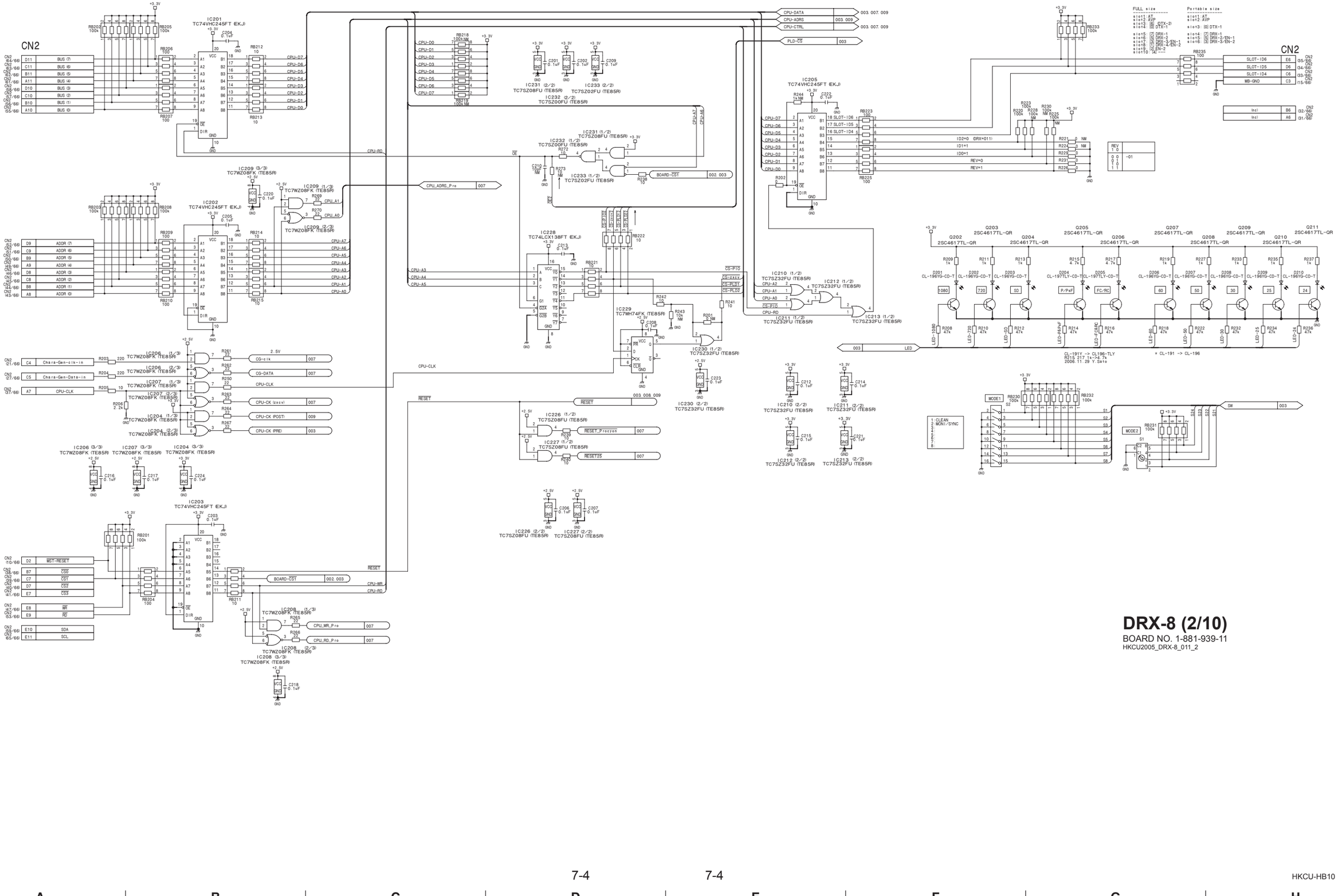

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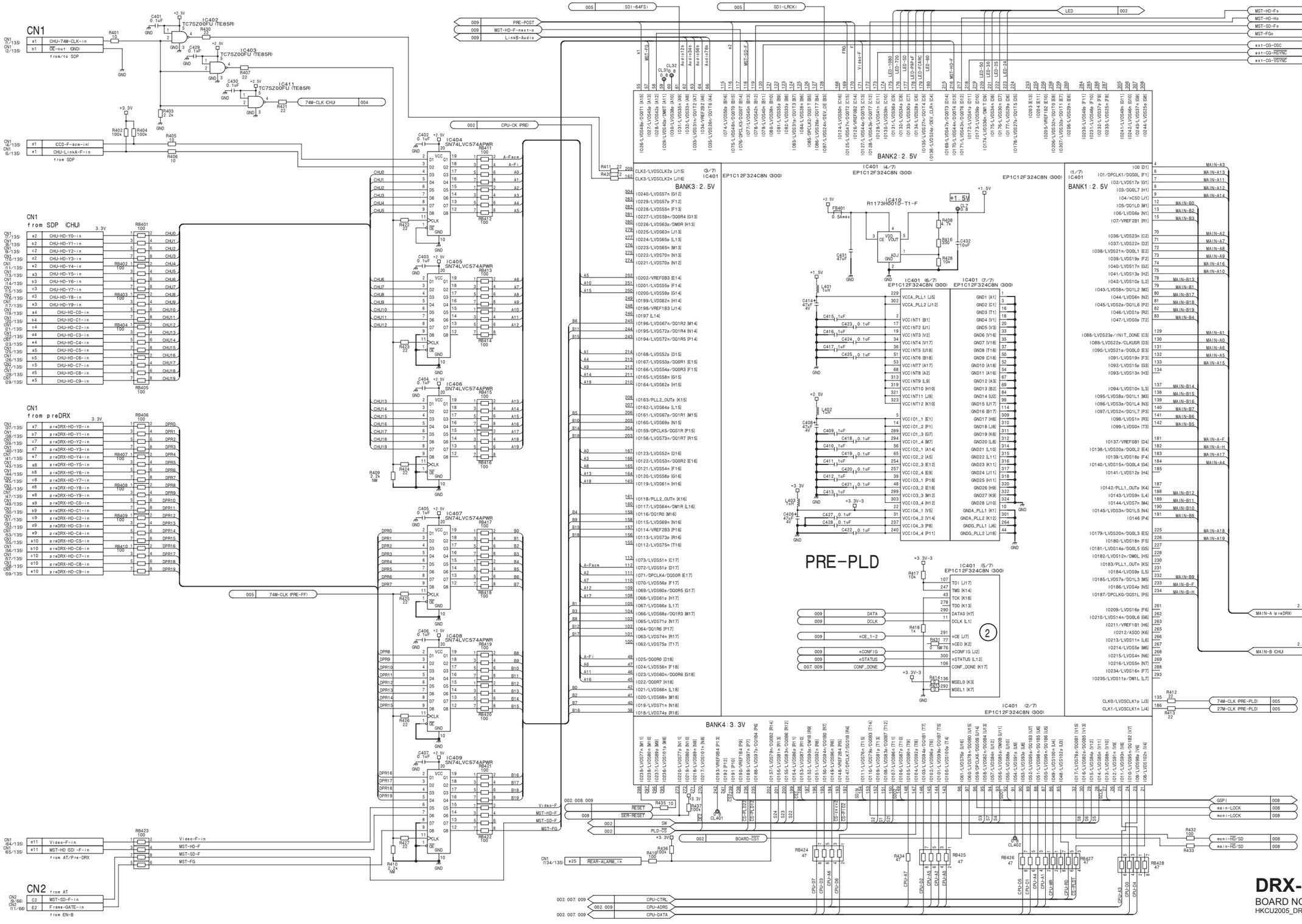
DRX-8 (2/10)
BOARD NO. 1-881-939-11
HKCU2005_DRX-8_011_2

DRX-8 (3/10) (HKCU2005)

SUFFIX: -11

DRX-8 (3/10) (HKCU2005)

SUFFIX: -11

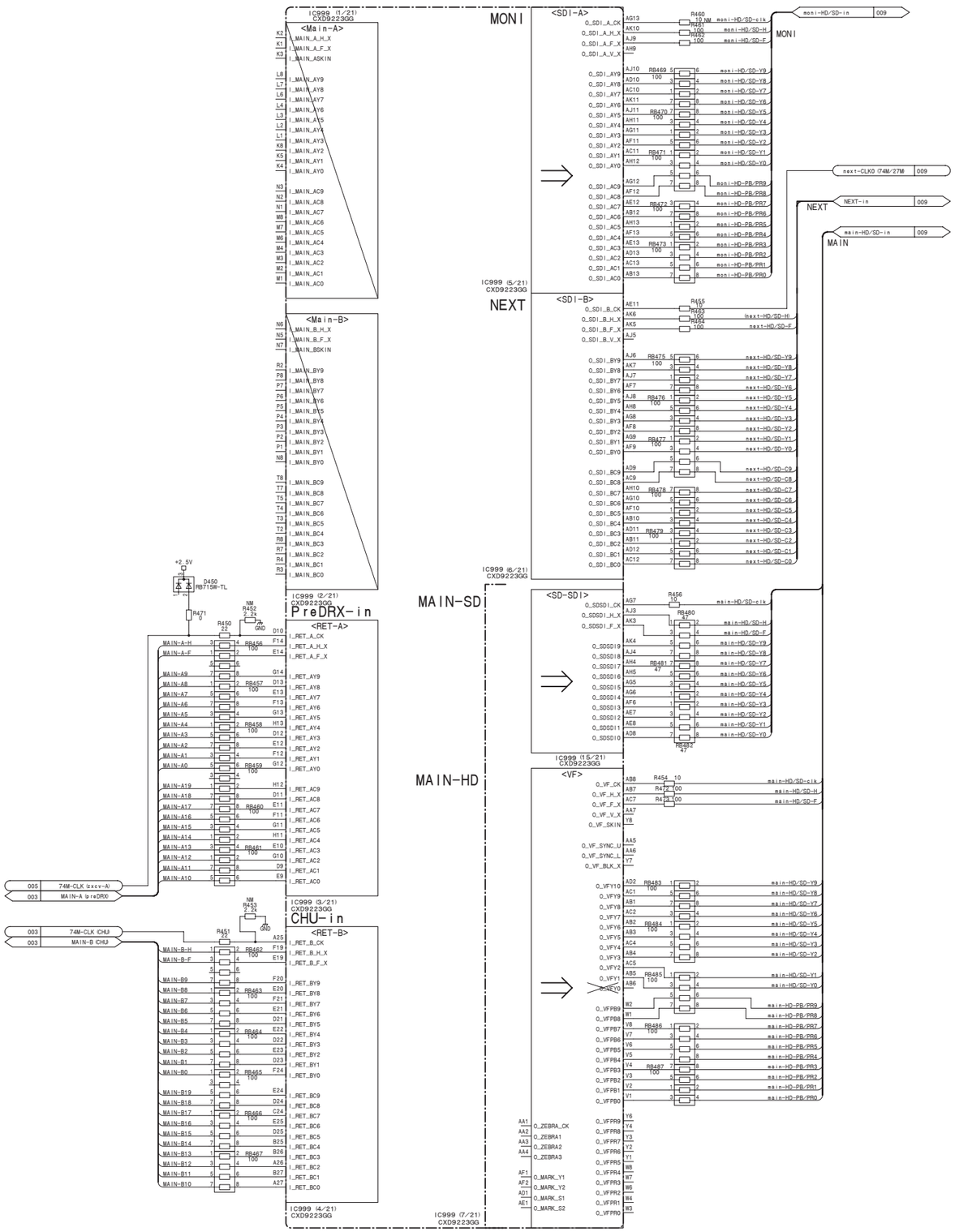


DRX-8 (3/10)

BOARD NO. 1-881-939-11

HKCU2005_DRX-8_011_3

DRX-8 (4/10) (HKCU2005)
SUFFIX: -11



DRX-8 (4/10)
BOARD NO. 1-881-939-11
HKCU2005_DRX-8_011_4

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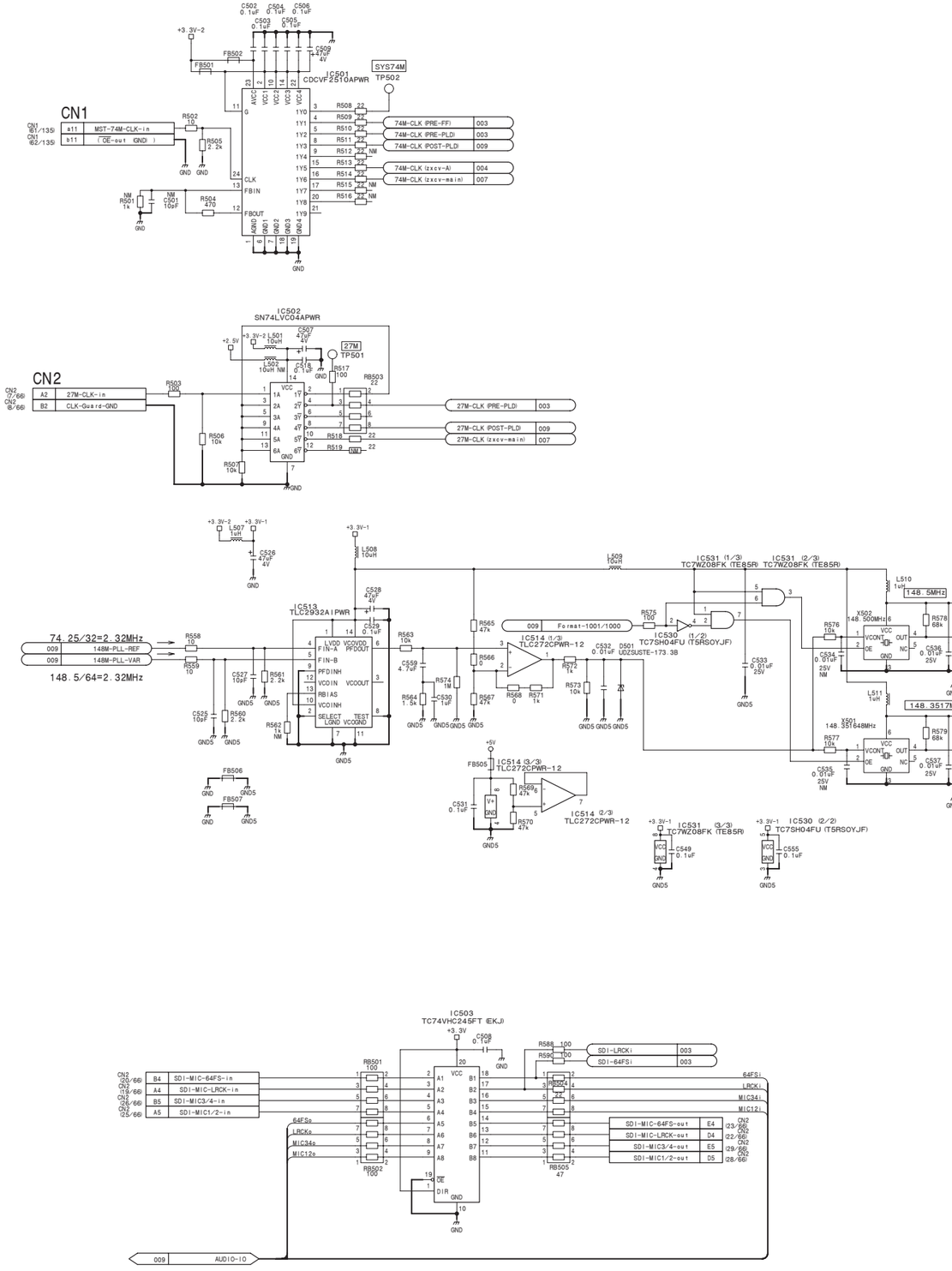
HKCU-HB10

DRX-8 (5/10) (HKCU2005)
SUFFIX: -11



DRX-8 (5/10)
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HKCU2005_DRX-8_011_5

DRX-8 (6/10) (HKCU2005)
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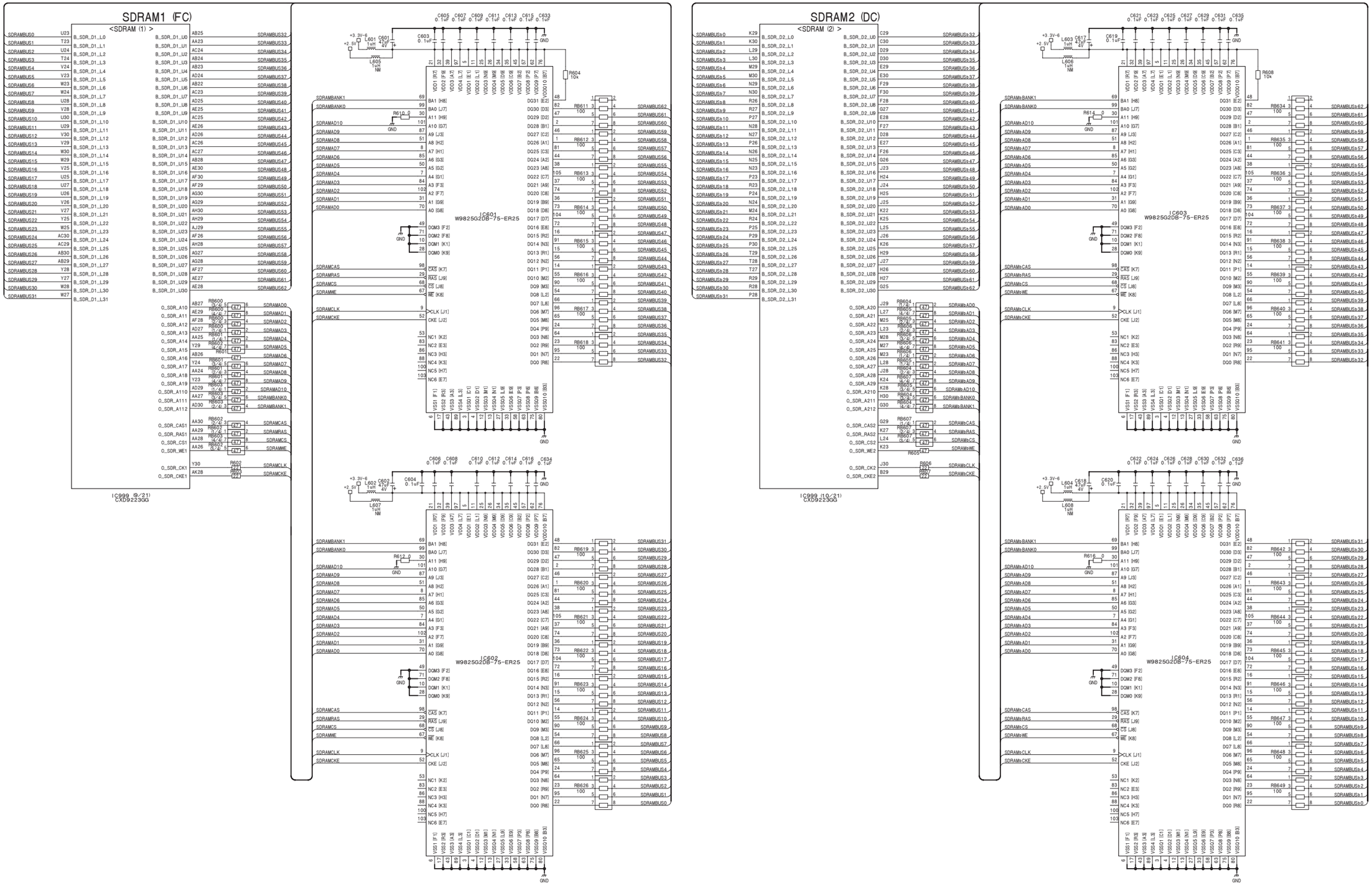

DRX-8 (6/10)
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HKCU2005_DRX-8_011_6

DRX-8 (7/10) (HKCU2005)
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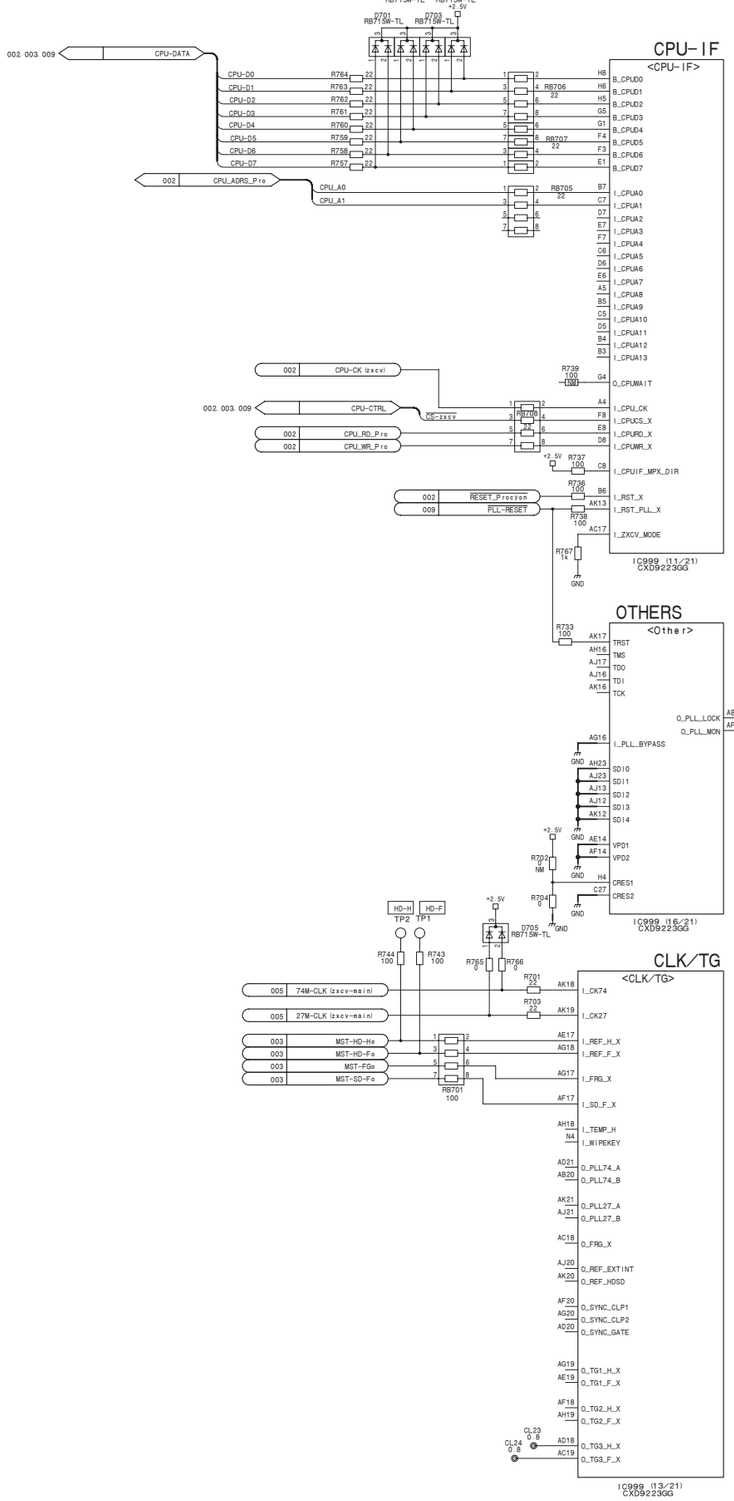
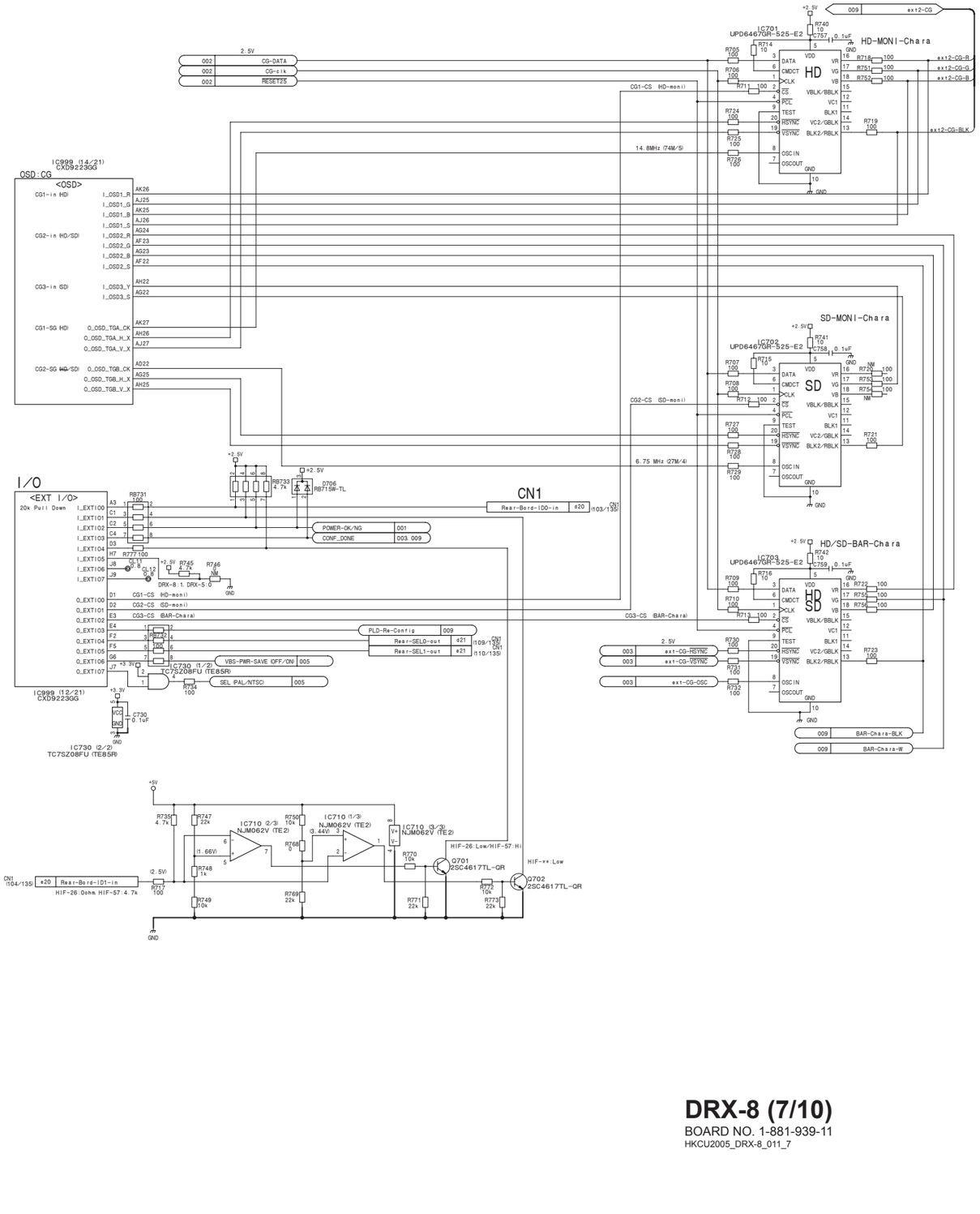




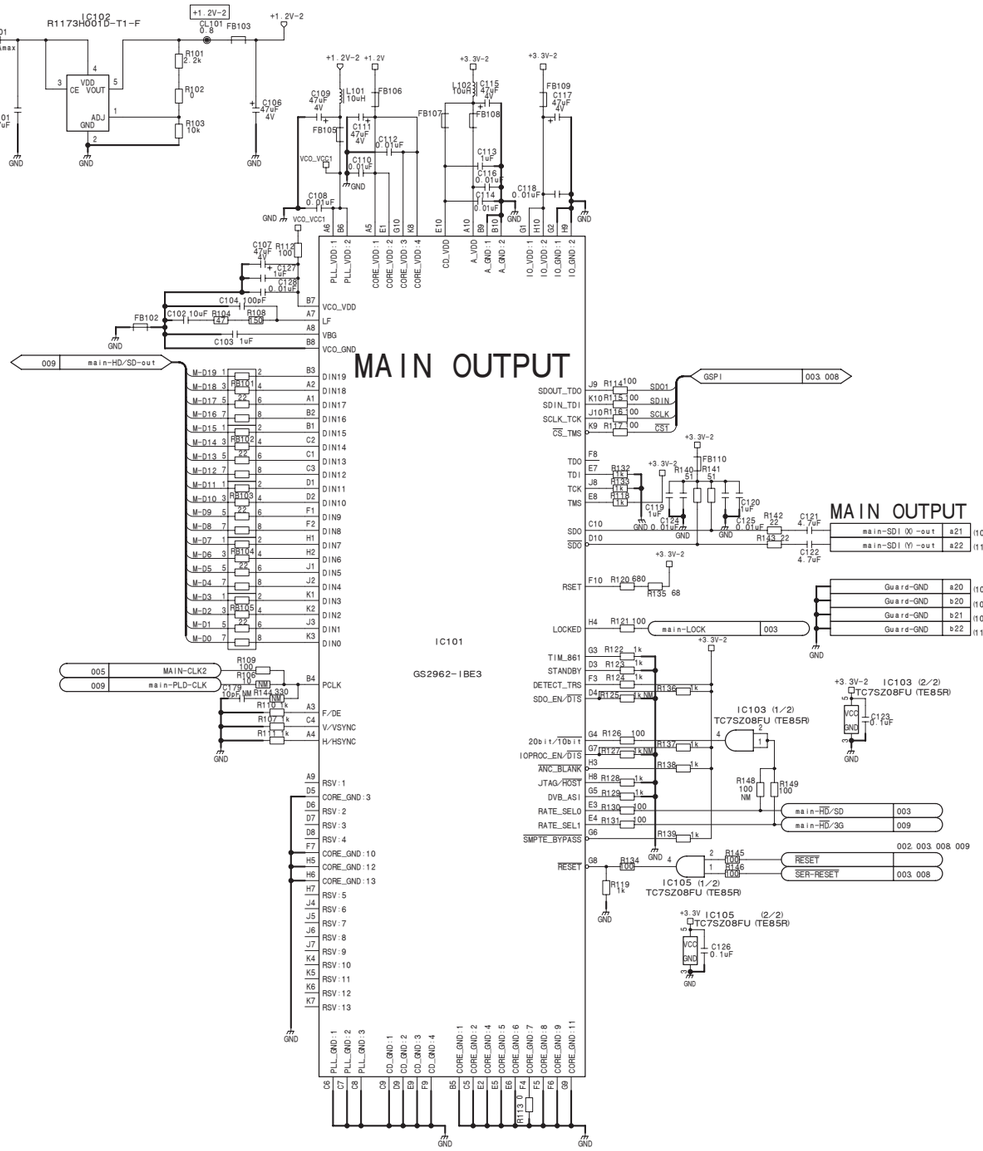
DRX-8 (7/10)

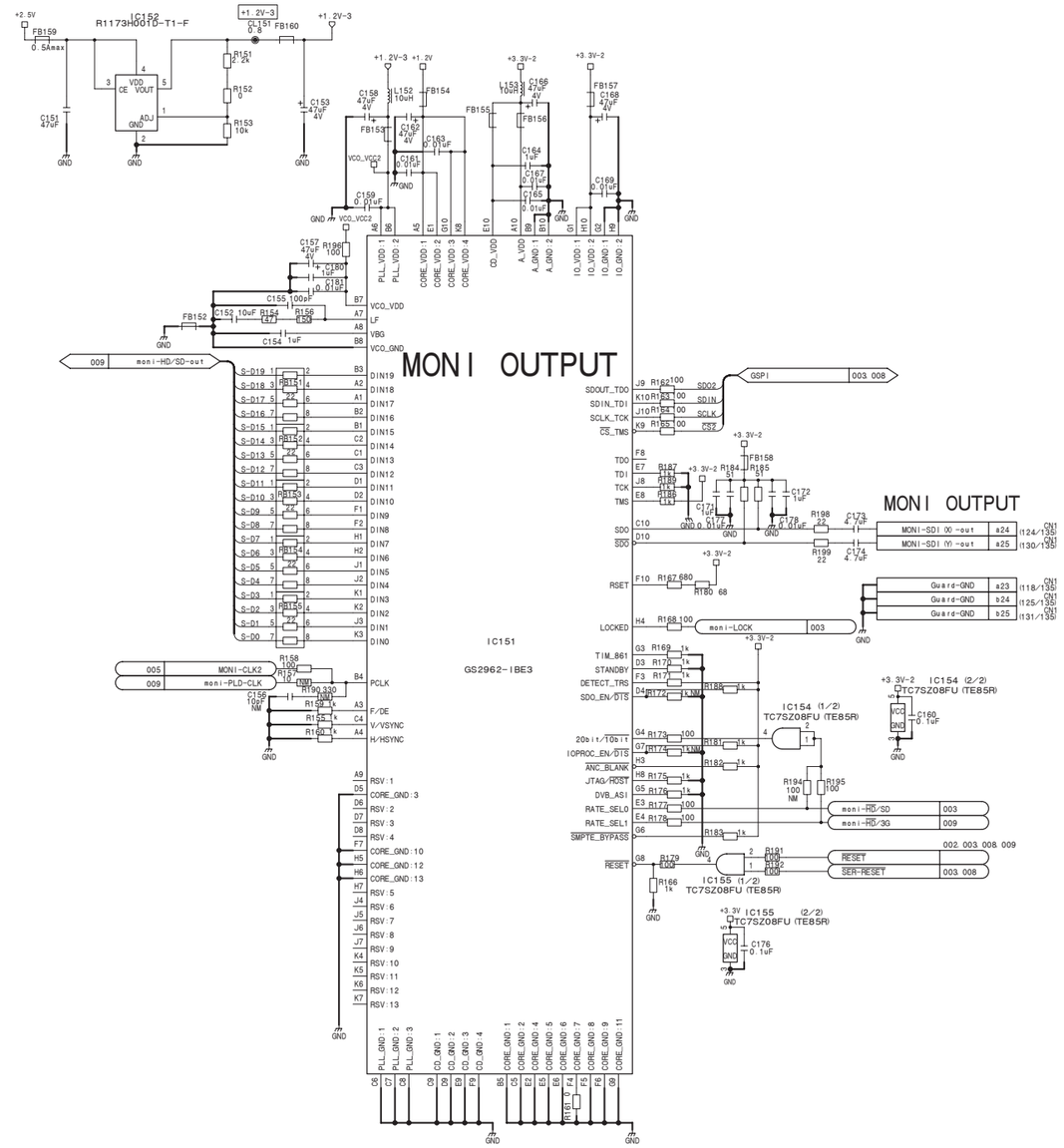
BOARD NO. 1-881-939-11

HKCU2005_DRX-8_011_7

DRX-8 (8/10) (HKCU2005)

SUFFIX: -11



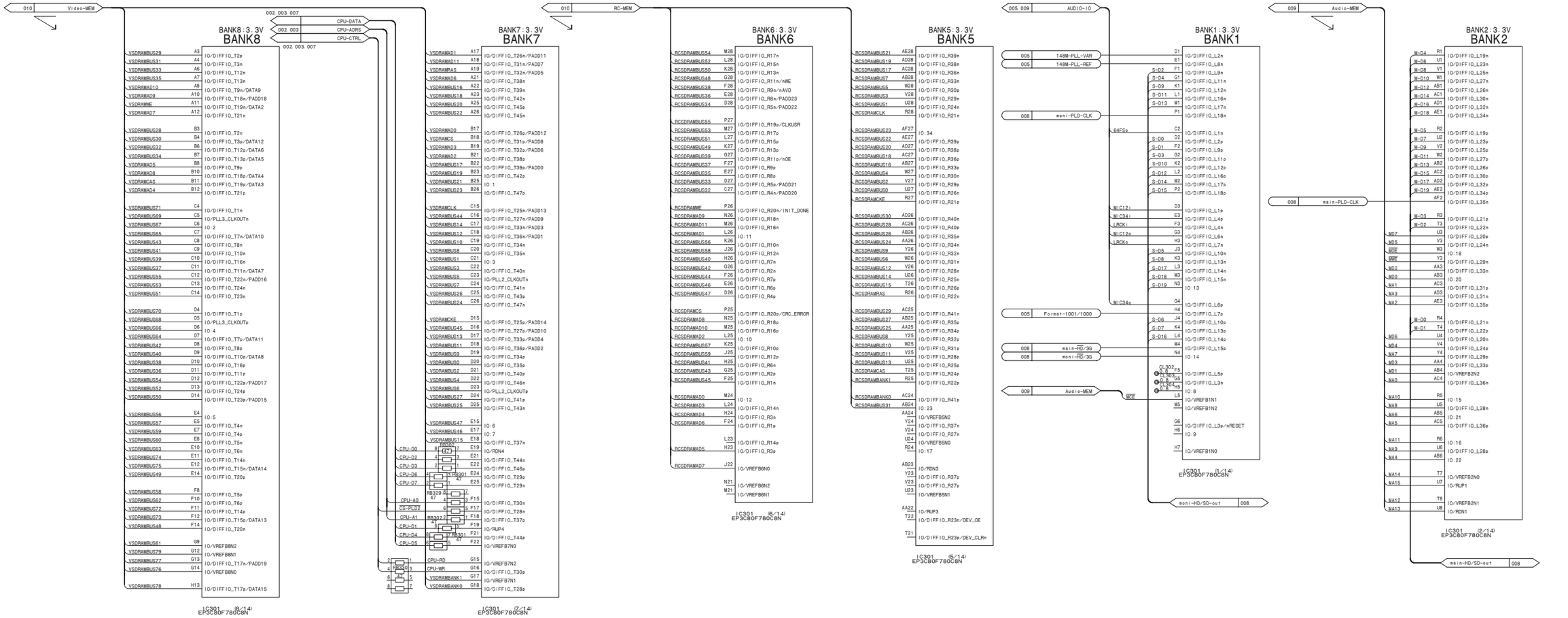


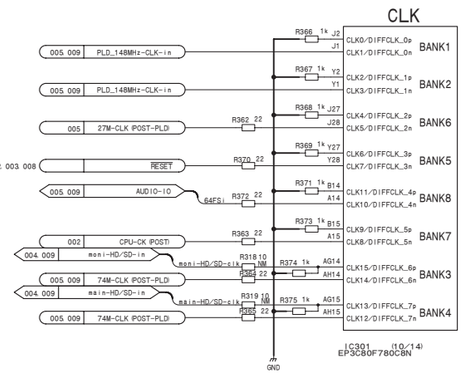
DRX-8 (8/10)

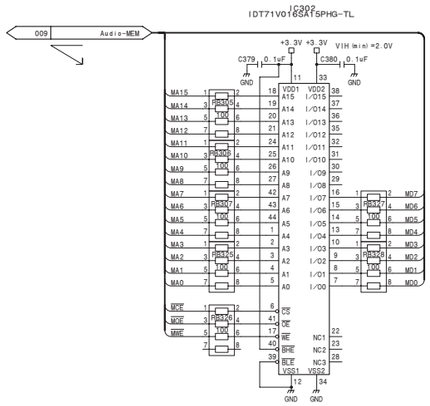
BOARD NO. 1-881-939-11

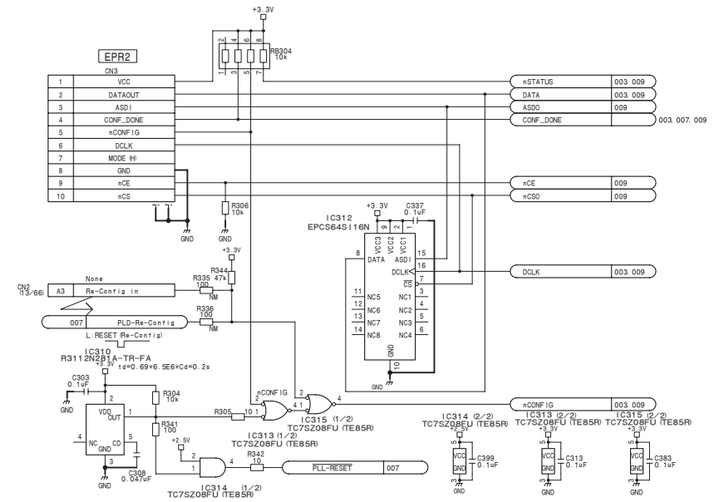
HKCU2005_DRX-8_011_8

DRX-8 (9/10) (HKCU2005)
SUFFIX: -11









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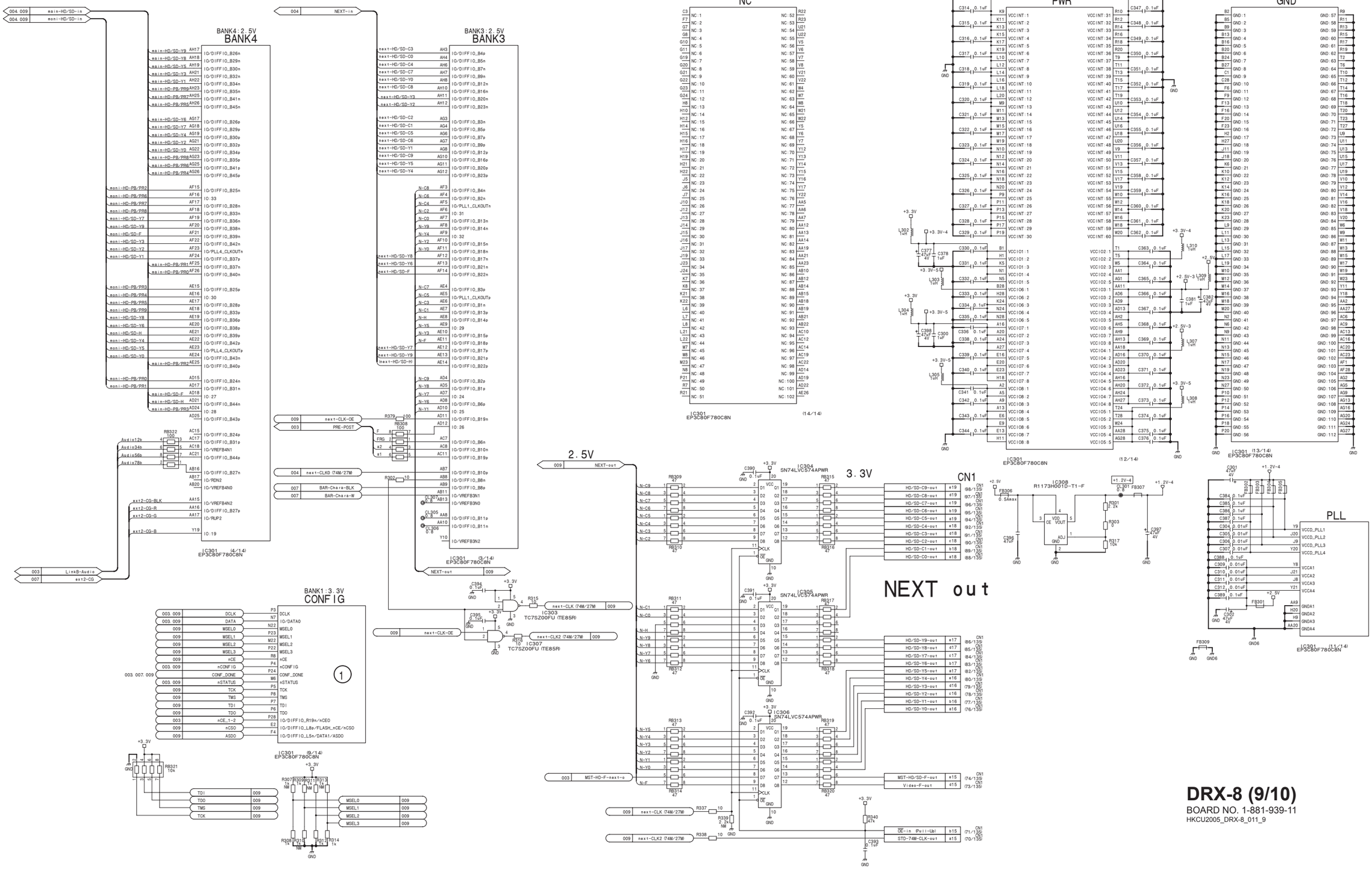
DRX-8 (9/10) (HKCU2005)

SUFFIX: -11

DRX-8 (9/10) (HKCU2005)

SUFFIX: -11



DRX-8 (9/10)

BOARD NO. 1-881-939-11

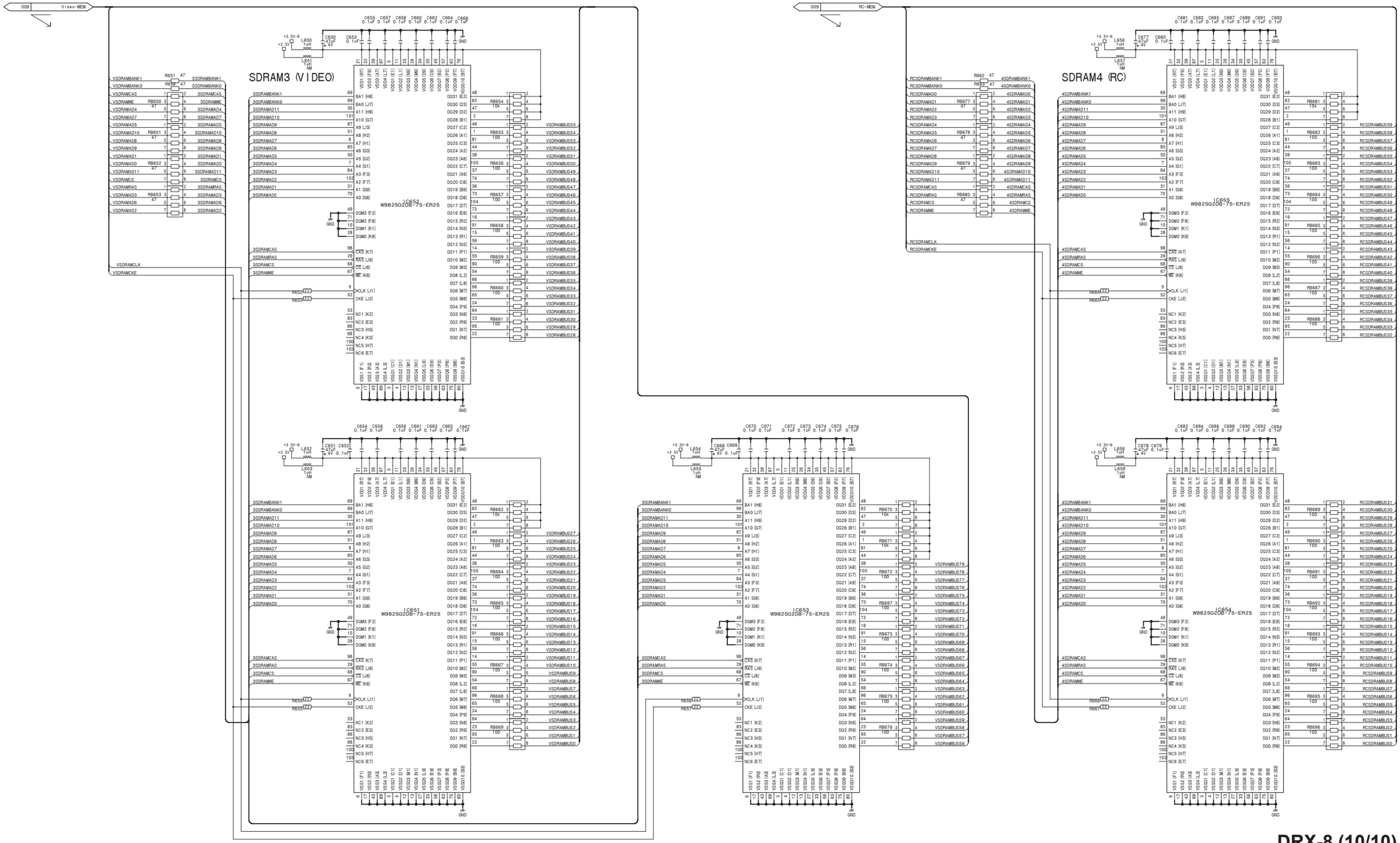
HKCU2005_DRX-8_011_9

DRX-8 (10/10) (HKCU2005)

SUFFIX: -11

DRX-8 (10/10) (HKCU2005)

SUFFIX: -11



7-14

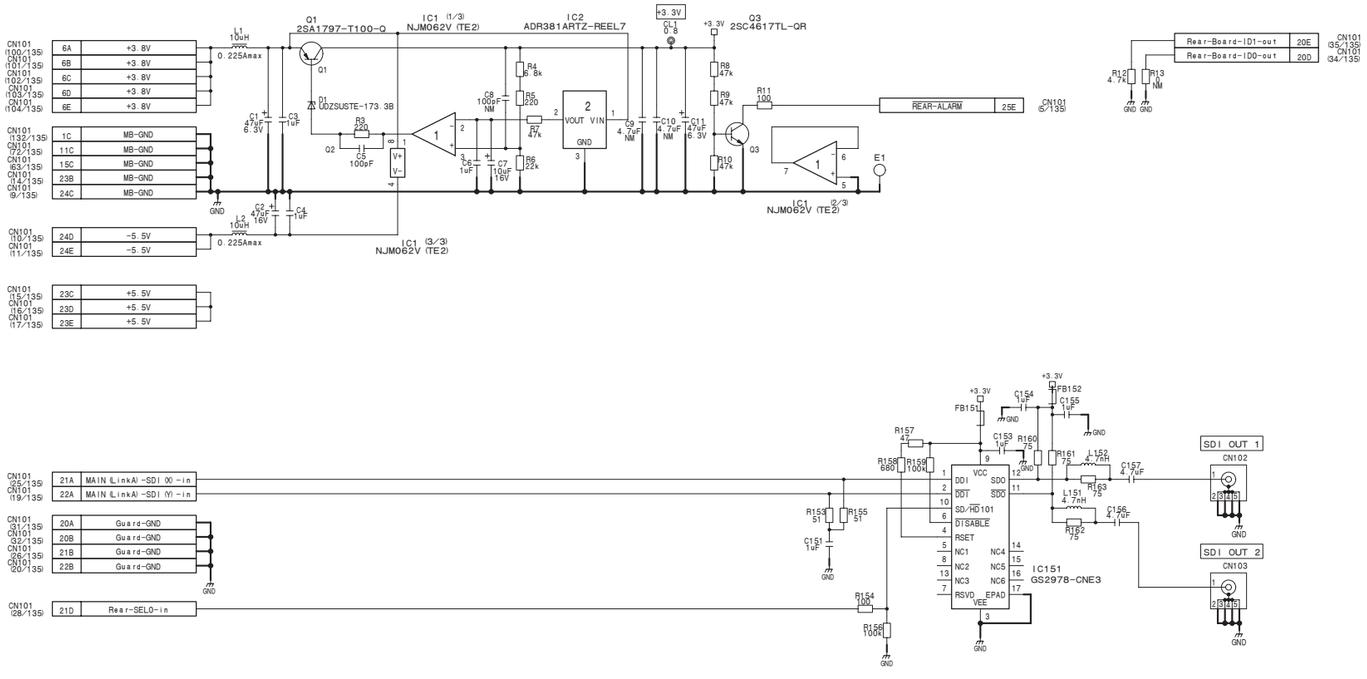
HKCU-HB10

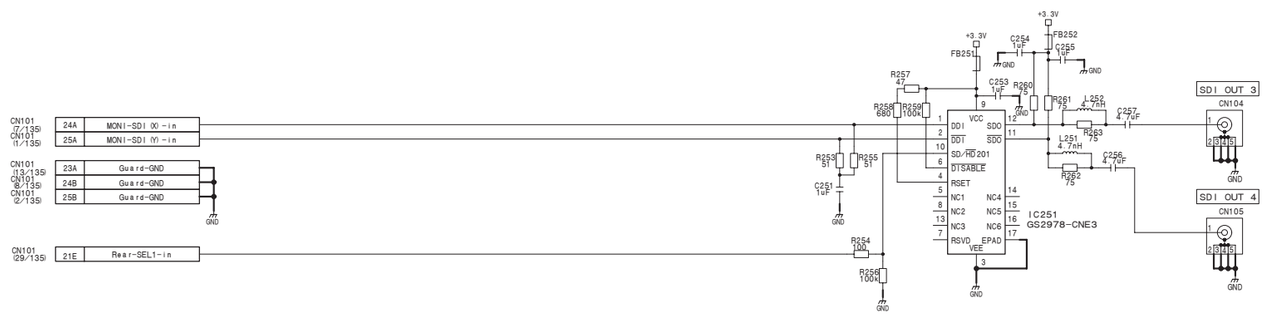
DRX-8 (10/10)

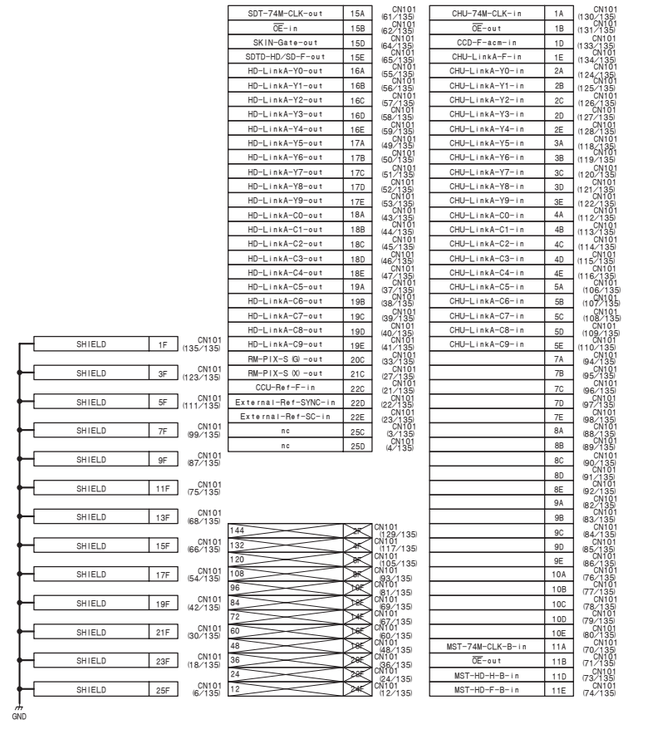
BOARD NO. 1-881-939-11

HKCU2005_DRX-8_011_10

HIF-57 (HKCU2005)
SUFFIX: -11







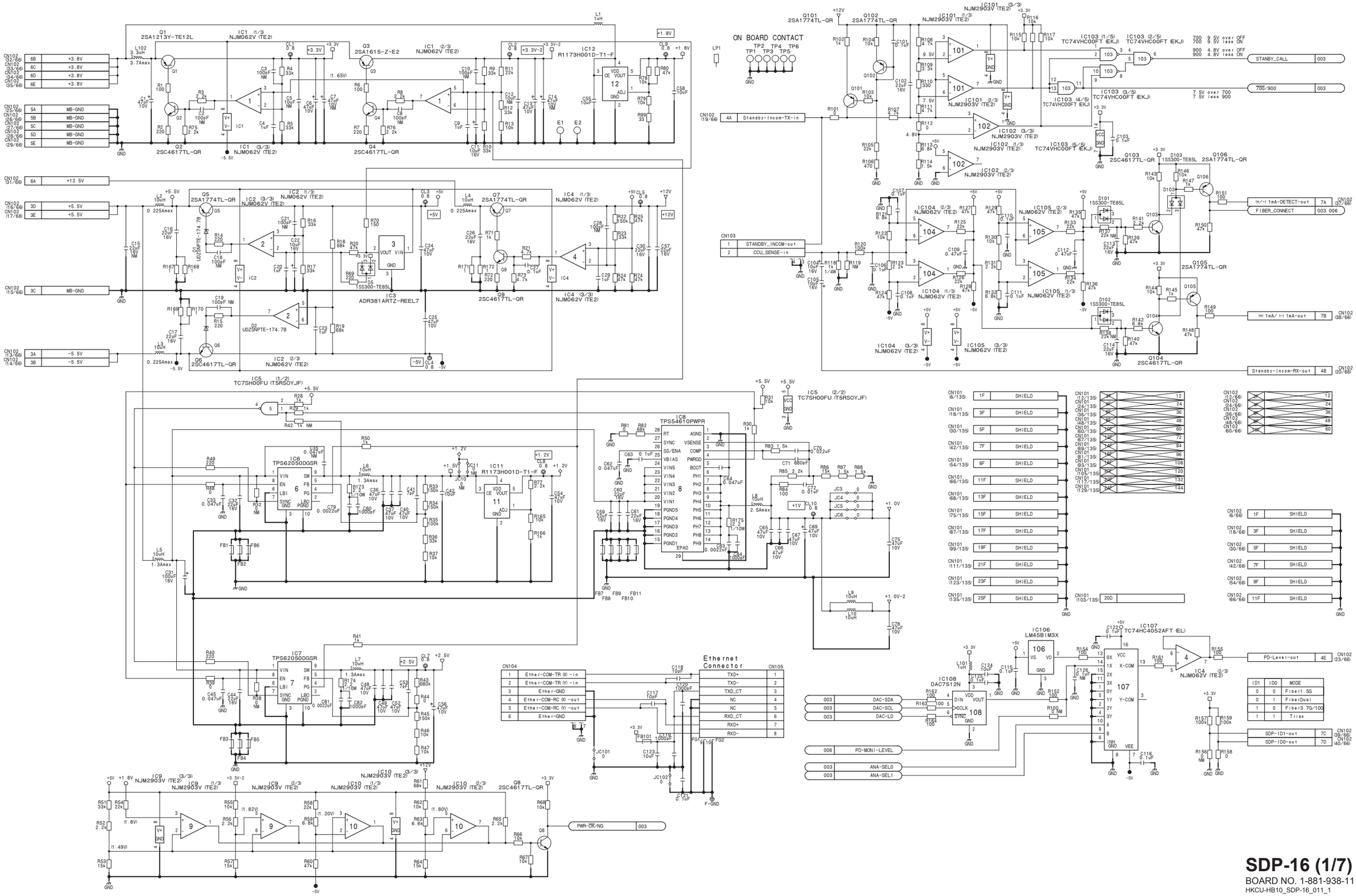
HIF-57
BOARD NO. 1-881-940-11
HKCU2005_HIF-57_011_1

SDP-16 (1/7) (HKCU-HB10/15)

SUFFIX: -11

SDP-16 (1/7) (HKCU-HB10/15)

SUFFIX: -11



SDP-16 (1/7)

BOARD NO. 1-881-938-11

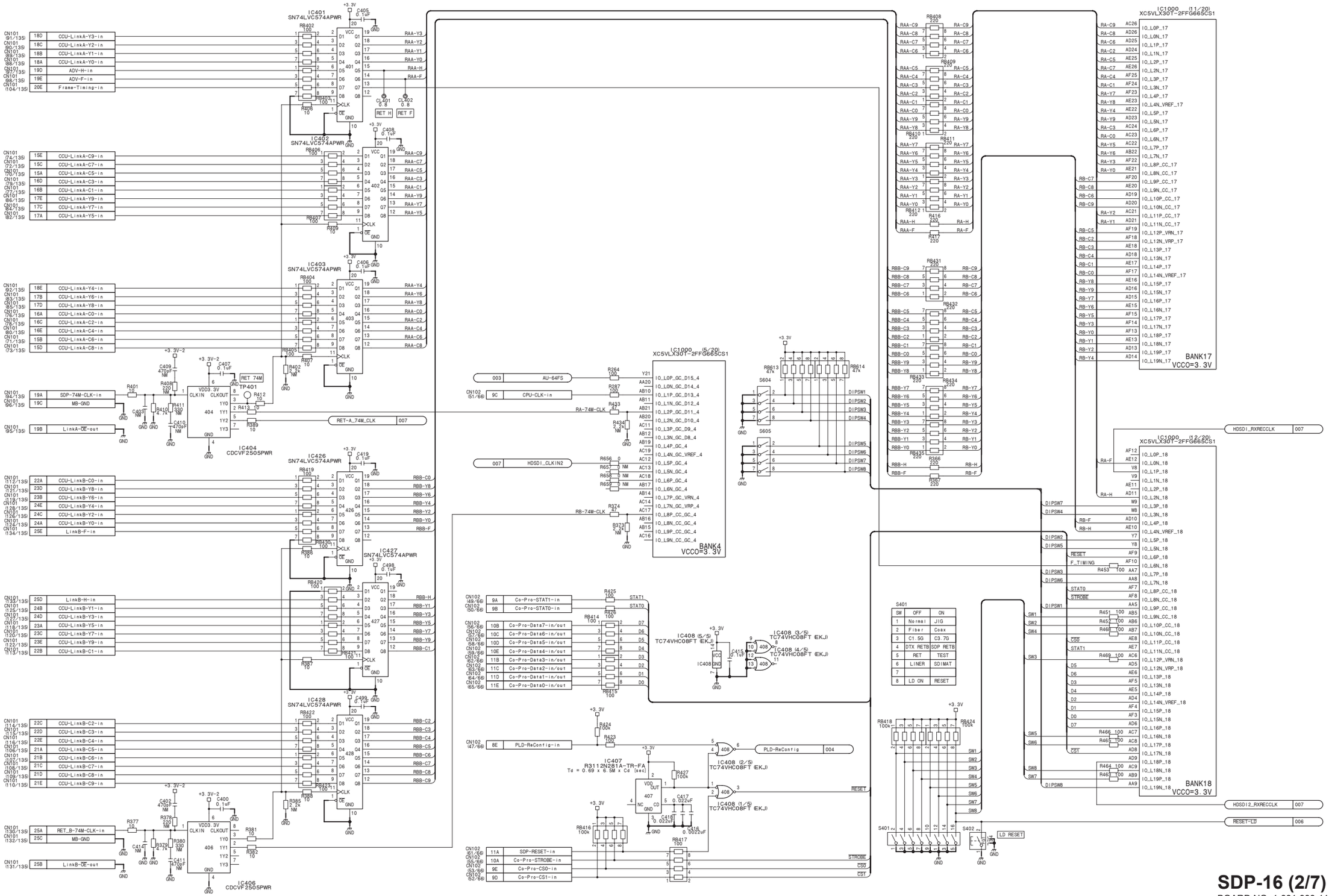
HKCU-HB10_SDP-16_011_1

SDP-16 (2/7) (HKCU-HB10/15)

SUFFIX: -11

SDP-16 (2/7) (HKCU-HB10/15)

SUFFIX: -11



SDP-16 (2/7)

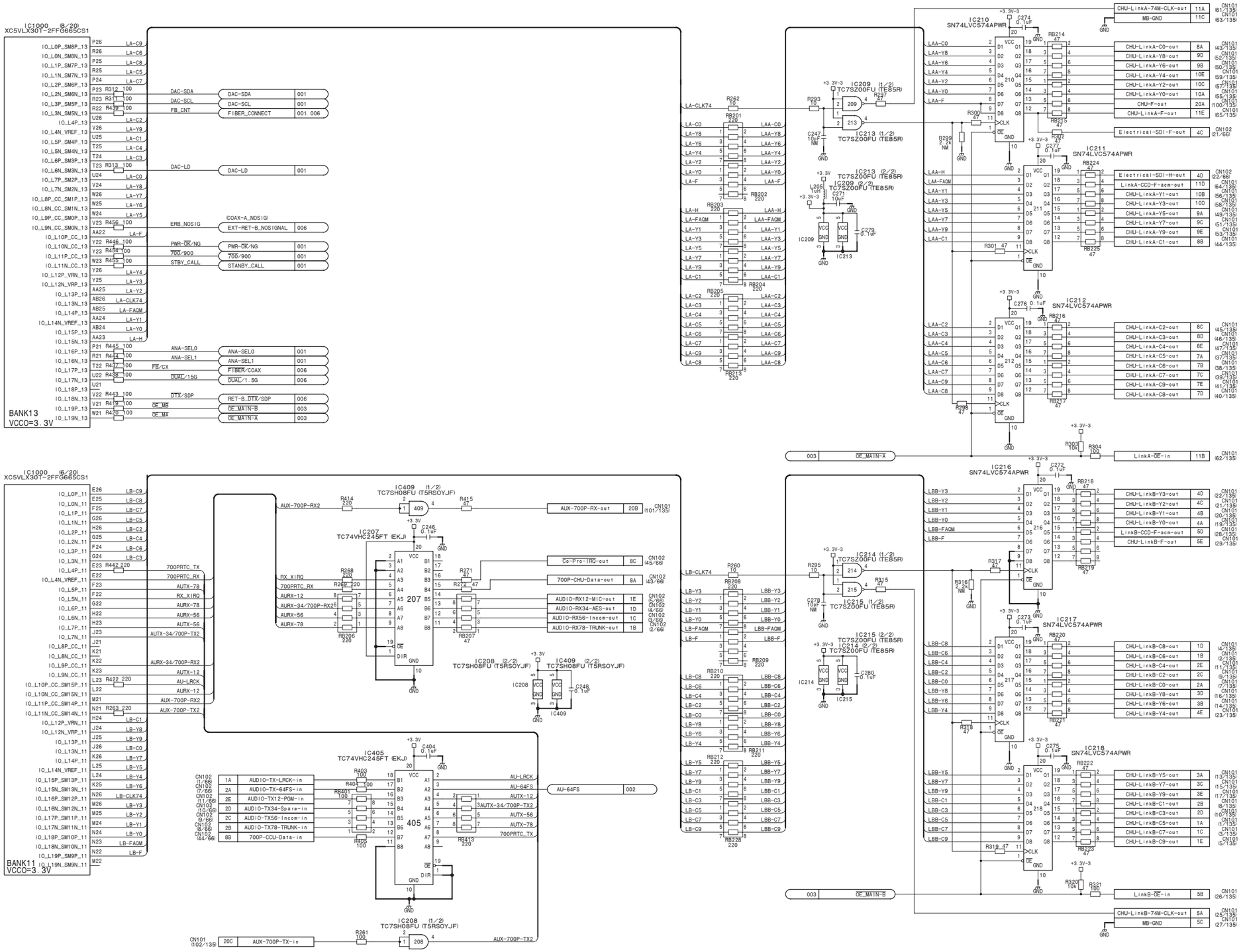
BOARD NO. 1-881-938-11

HKCU-HB10_SDP-16_011_2

SDP-16 (3/7) (HKCU-HB10/15)

SUFFIX: -11

SDP-16 (3/7) (HKCU-HB10/15)
SUFFIX: -11



SDP-16 (3/7)

BOARD NO. 1-881-938-11

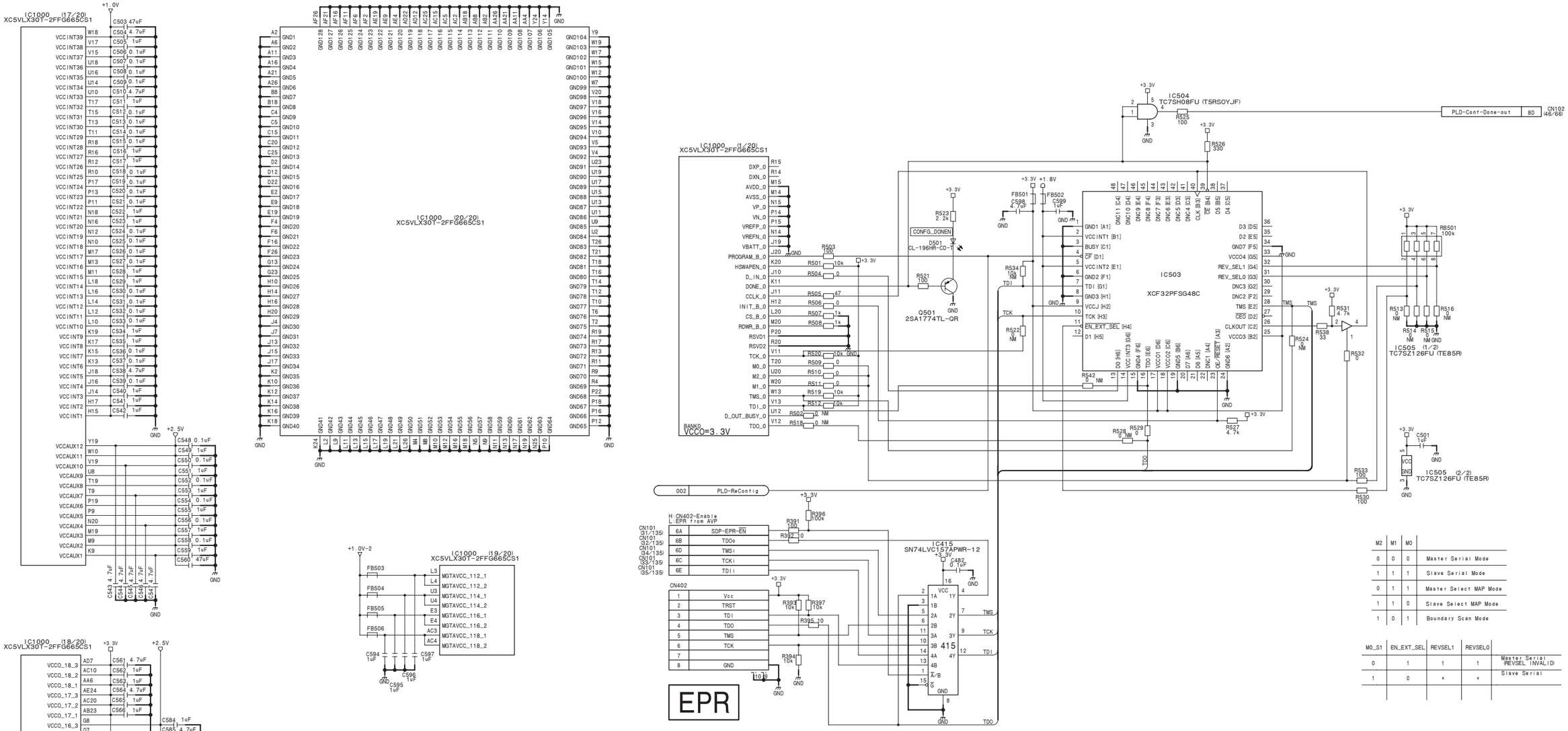
HKCU-HB10_SDP-16_011_3

SDP-16 (4/7) (HKCU-HB10/15)

SUFFIX: -11

SDP-16 (4/7) (HKCU-HB10/15)

SUFFIX: -11



M2	M1	M0	
0	0	0	Master Serial Mode
1	1	1	Slave Serial Mode
0	1	1	Master Select MAP Mode
1	1	0	Slave Select MAP Mode
1	0	1	Boundary Scan Mode

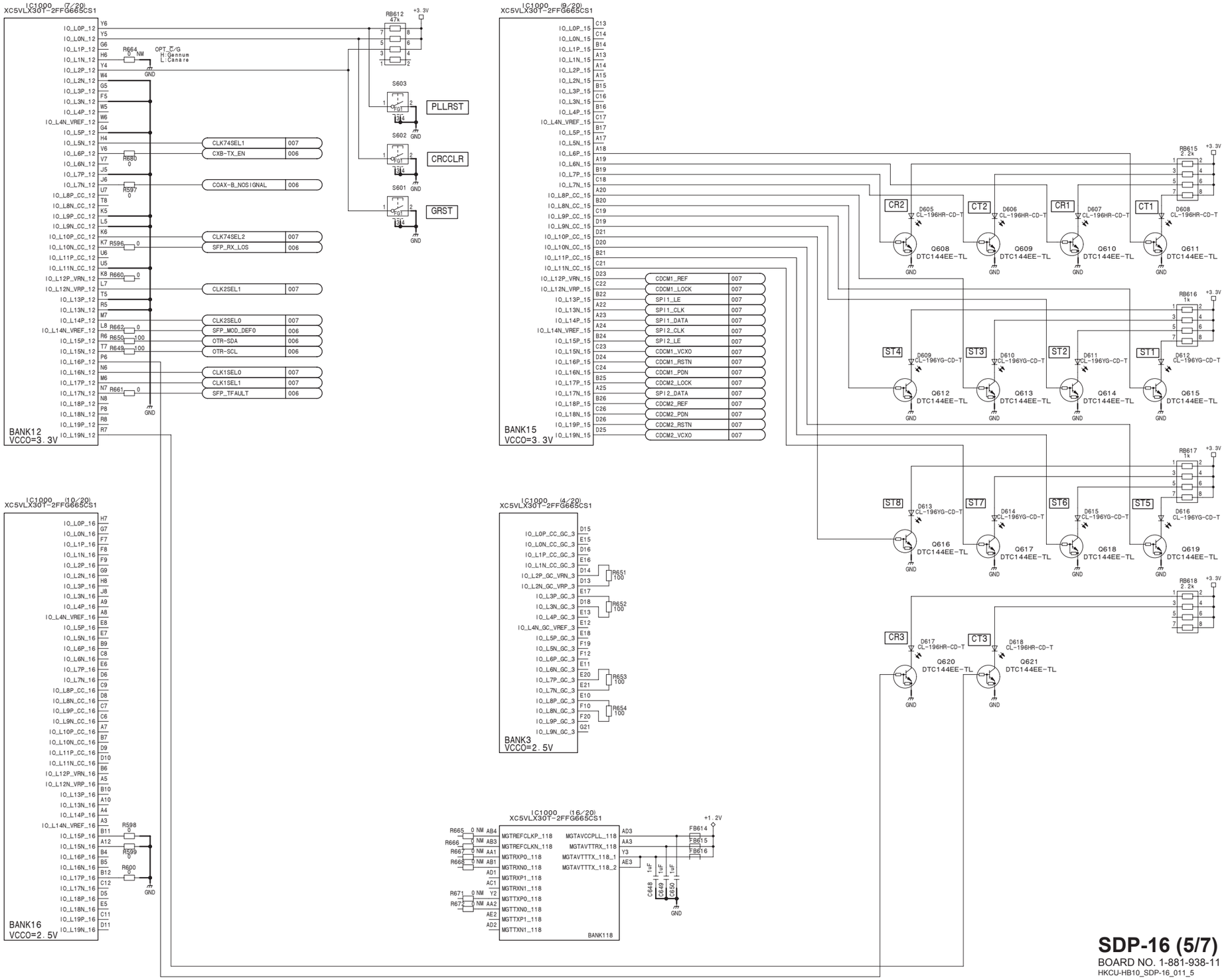
M0_S1	EN_EXT_SEL	REVSEL1	REVSEL0	
0	1	1	1	Master Serial REVSEL INVALID!
1	0	*	*	Slave Serial

SDP-16 (4/7)

BOARD NO. 1-881-938-11

HKCU-HB10_SDP-16_011_4

SDP-16 (5/7) (HKCU-HB10/15)
SUFFIX: -11



SDP-16 (5/7)

BOARD NO. 1-881-938-11

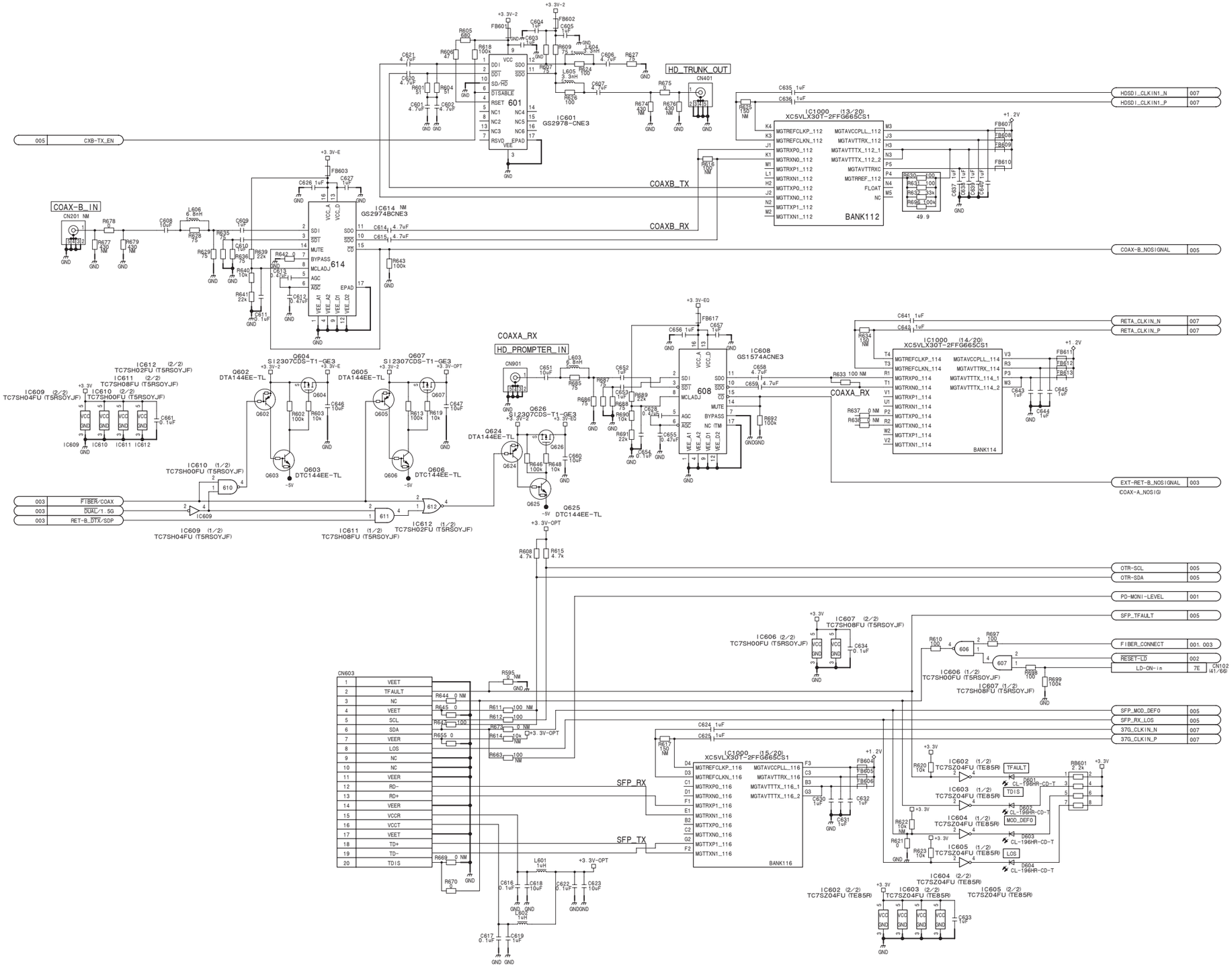
HKCU-HB10_SDP-16_011_5

SDP-16 (6/7) (HKCU-HB10/15)

SUFFIX: -11

SDP-16 (6/7) (HKCU-HB10/15)

SUFFIX: -11



SDP-16 (6/7)

BOARD NO. 1-881-938-11

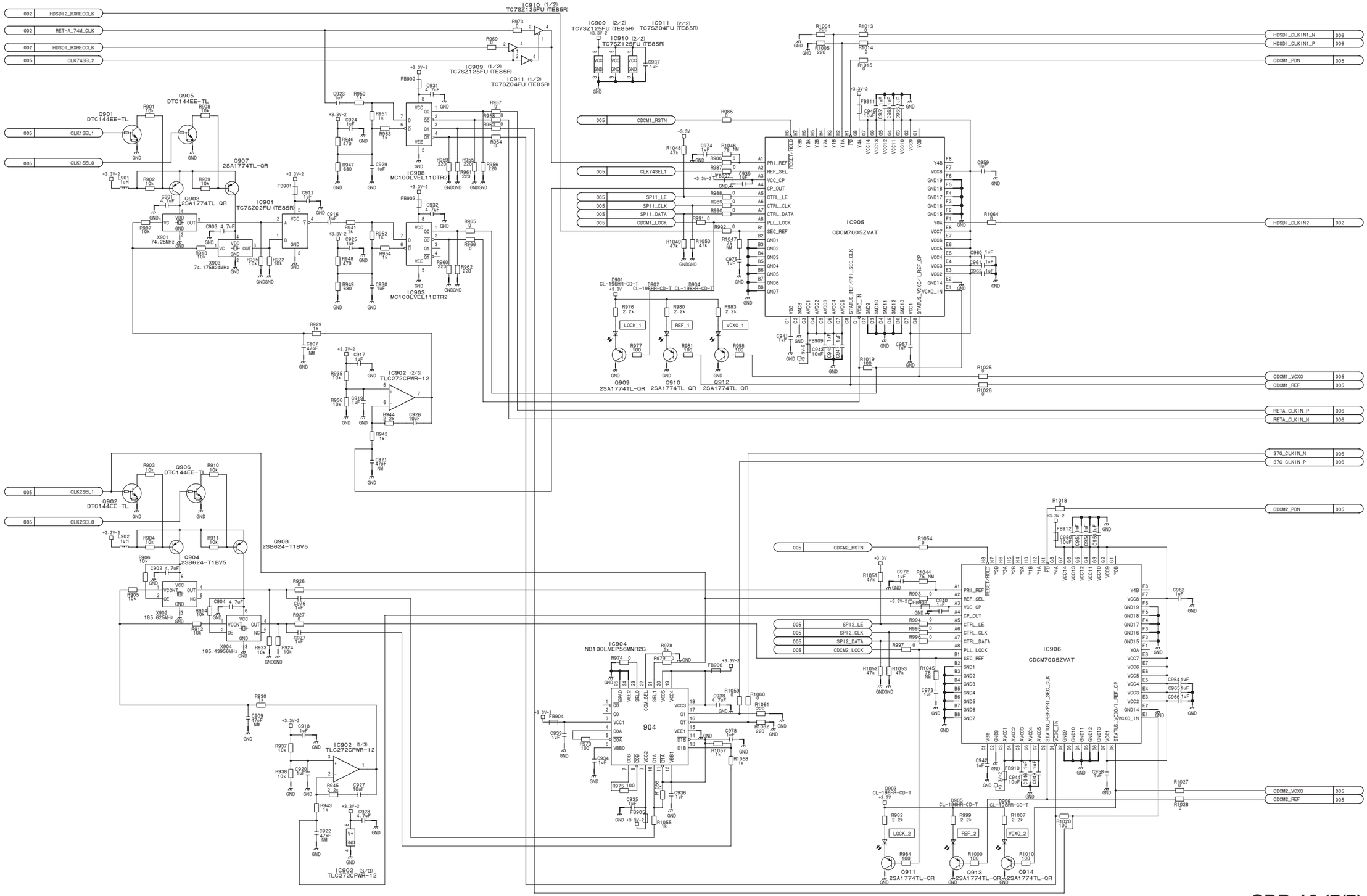
HKCU-HB10_SDP-16_011_6

SDP-16 (7/7) (HKCU-HB10/15)

SUFFIX: -11

SDP-16 (7/7) (HKCU-HB10/15)

SUFFIX: -11

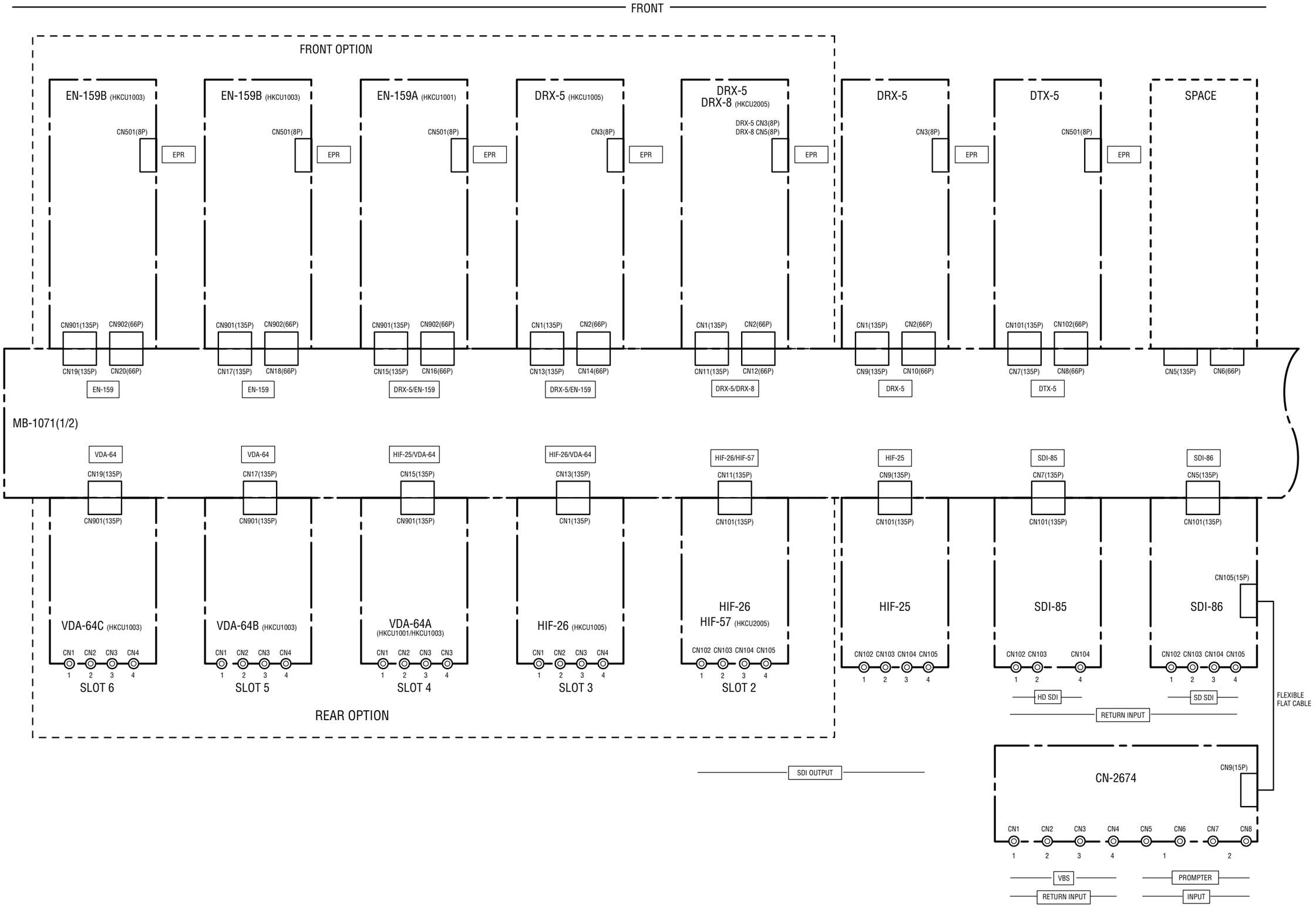


SDP-16 (7/7)

BOARD NO. 1-881-938-11

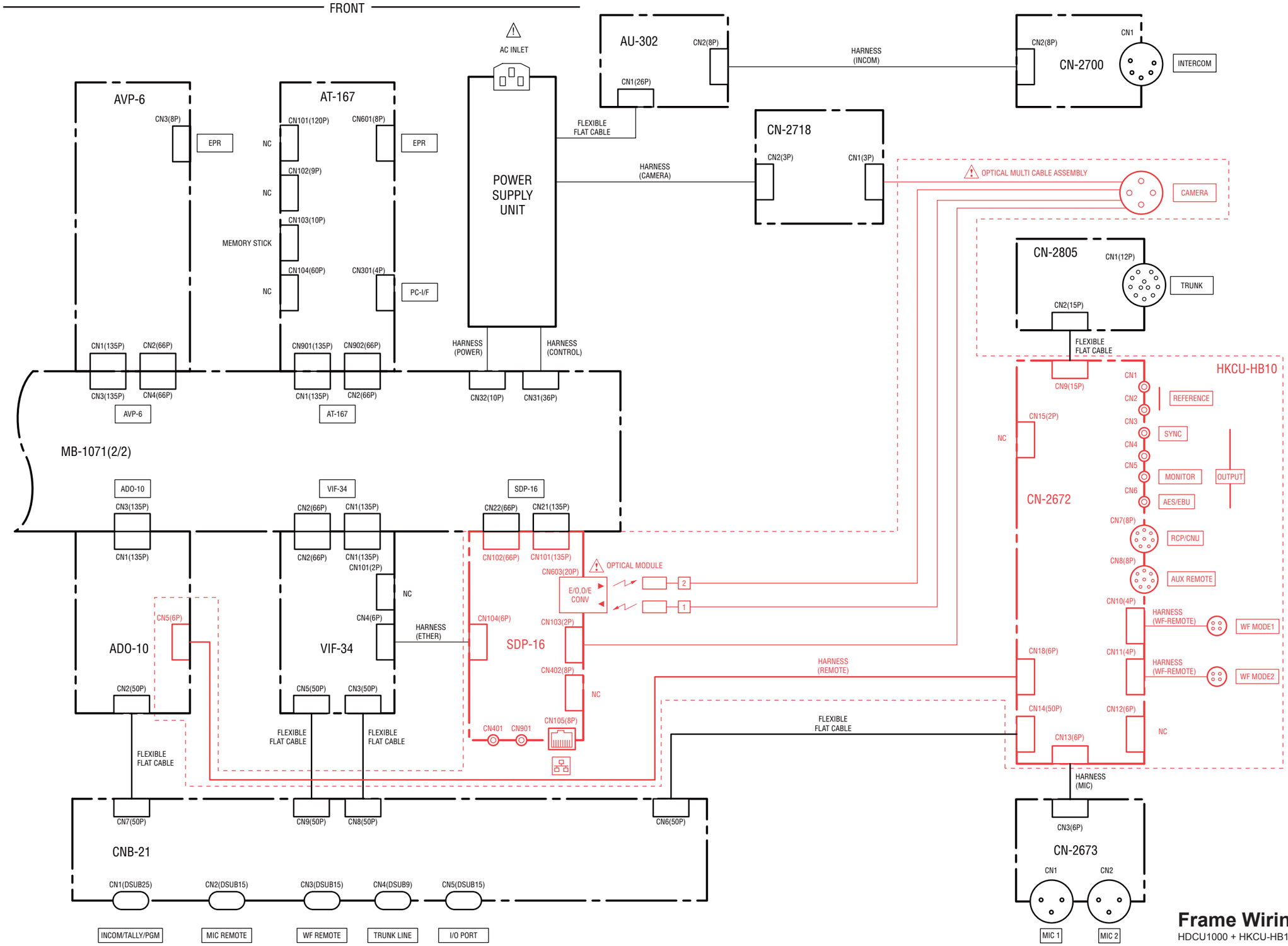
HKCU-HB10_SDP-16_011_7

Frame Wiring HDCU1000 + HKCU-HB10



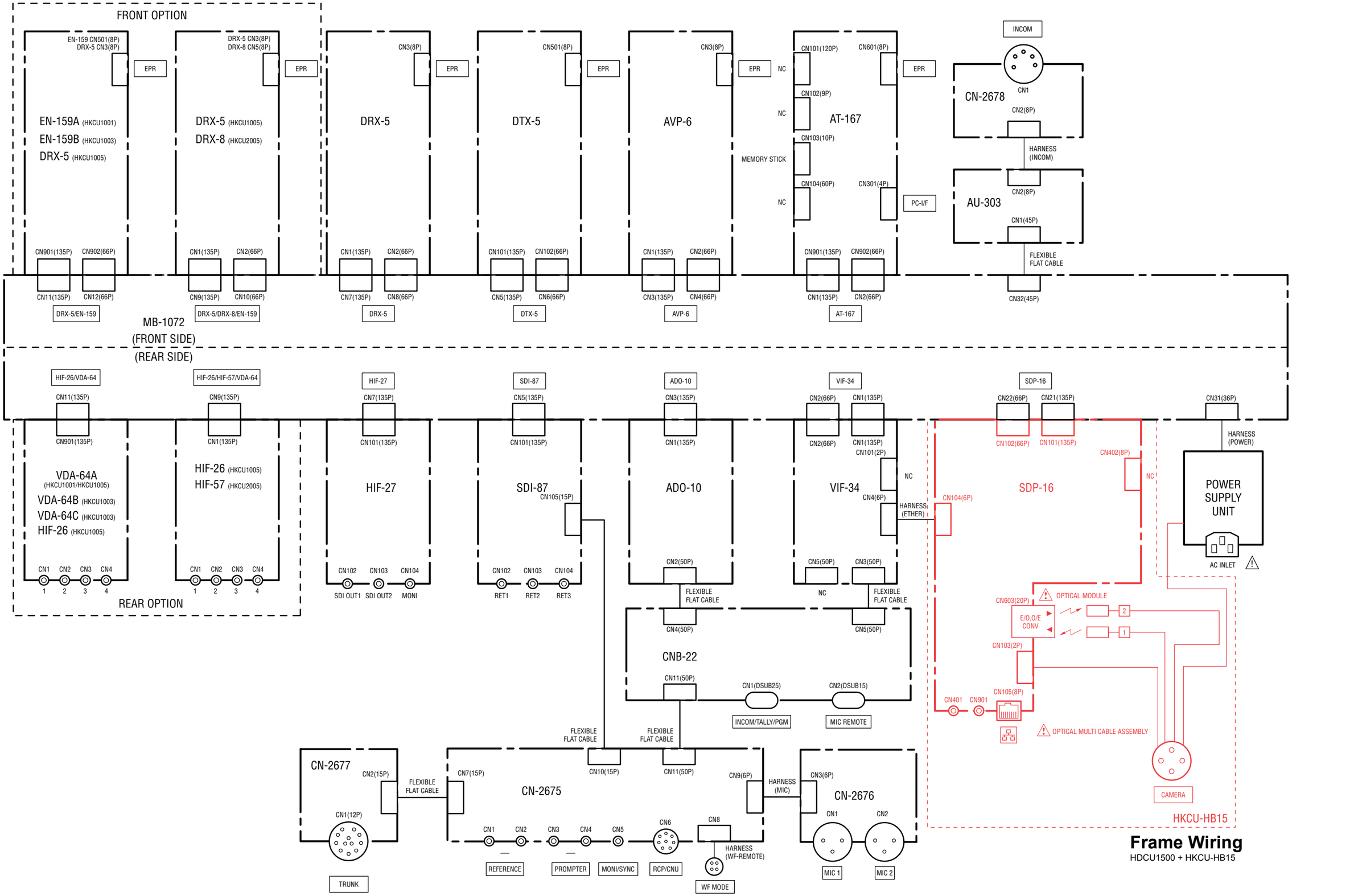
7-24

Frame Wiring HDCU1000 + HKCU-HB10



Frame Wiring
HDCU1000 + HKCU-HB10

Frame Wiring HDCU1500 + HKCU-HB15

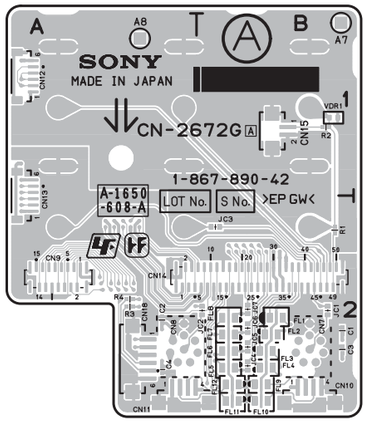


Frame Wiring
HDCU1500 + HKCU-HB15

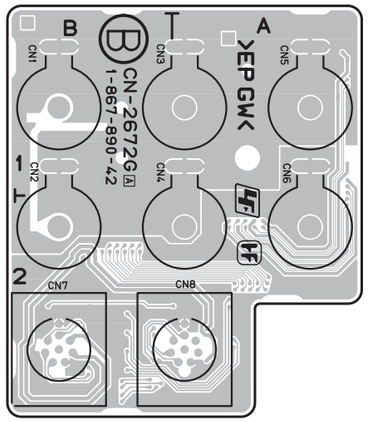
Section 8
Board Layouts

Index

CN-2672GA, HIF-57



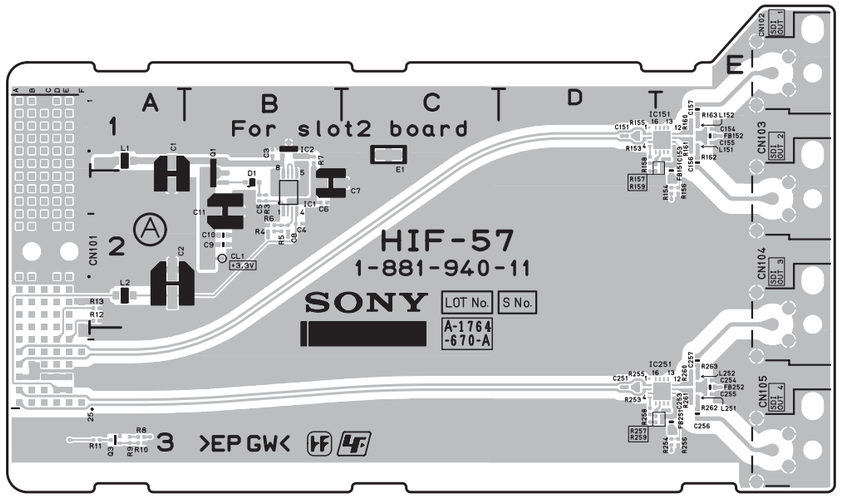
CN-2672GA -A SIDE-
SUFFIX:-42
For HKCU-HB10



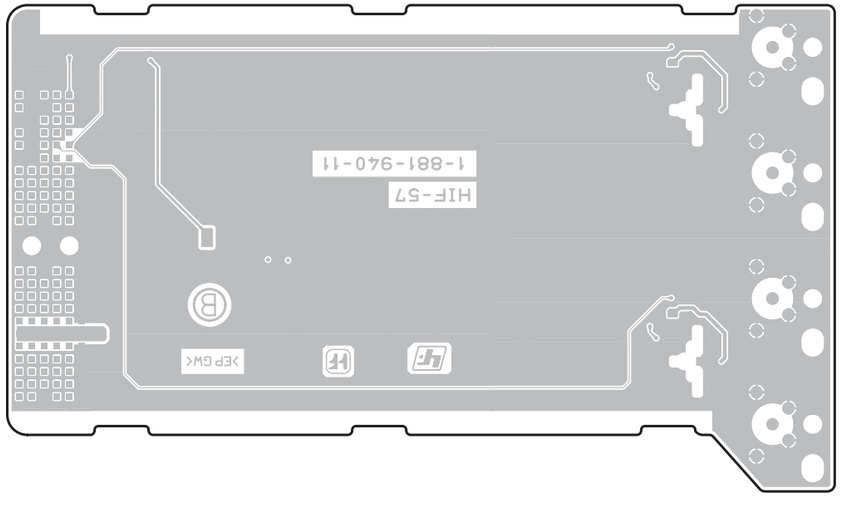
CN-2672GA -B SIDE-
SUFFIX:-42
For HKCU-HB10

CN-2672GA (1-867-890-42)
---
*:B SIDE

A7	B1
A8	A1
C1	B2
C2	A2
C3	B2
C4	A2
CN1	*B1
CN2	*B2
CN3	*A1
CN4	*A2
CN5	*A1
CN6	*A2
CN7	*B2
CN8	*A2
CN9	A2
CN10	B2
CN11	A2
CN12	A1
CN13	A2
CN14	B2
CN15	B1
CN18	A2
FL1	B2
FL2	B2
FL3	B2
FL4	B2
FL5	B2
FL6	B2
FL7	B2
FL8	B2
FL9	B2
FL10	B2
FL11	B2
FL12	B2
JC1	B2
JC2	B2
JC3	B2
JC4	B2
JC5	B2
JC6	B2
JC7	B2
R1	B2
R2	B1
R3	A2
R4	A2
VDR1	B1



HIF-57 -A SIDE-
SUFFIX:-11
For HKCU2005



HIF-57 -B SIDE-
SUFFIX:-11
For HKCU2005

HIF-57 (1-881-940-11)
---
*:B SIDE

C1	A2
C2	A2
C3	B1
C4	B2
C5	B2
C6	B2
C7	B2
C8	B2
C9	B2
C10	B2
C11	B2
C151	D1
C153	E1
C154	E1
C155	E1
C156	E1
C157	E1
C251	D3
C253	E3
C254	E3
C255	E3
C256	E3
C257	E3
CL1	B2
CN101	A2
CN102	E1
CN103	E2
CN104	E3
CN105	E3
D1	B2
E1	C1
FB151	E2
FB152	E1
FB251	E3
FB252	E3
IC1	B2
IC2	B1
IC151	E1
IC251	E3
L1	A1
L2	A2
L151	E1
L152	E1
L251	E3
L252	E3
Q1	B2
Q3	A3
R3	B2
R4	B2
R5	B2
R6	B2
R7	B1
R8	A3
R9	A3
R10	A3
R11	A3
R12	A2
R13	A2
R153	D1
R154	E2
R155	D1
R156	E2
R157	E1
R158	D1
R159	E2
R160	E1
R161	E1
R162	E1
R163	E1
R253	D3
R254	E3
R255	D3
R256	E3
R257	E3
R258	D3
R259	E3
R260	E3
R261	E3
R262	E3
R263	E3

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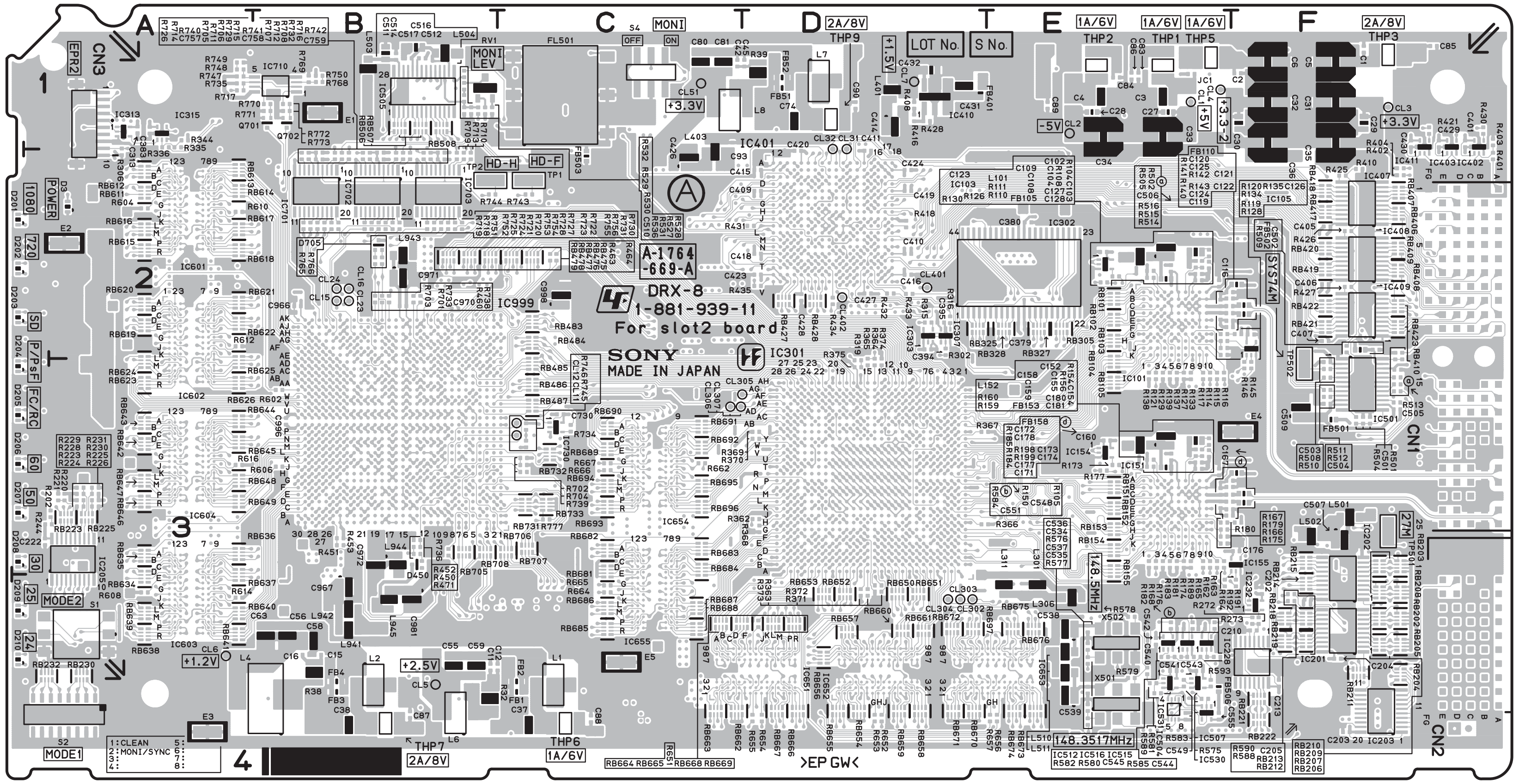
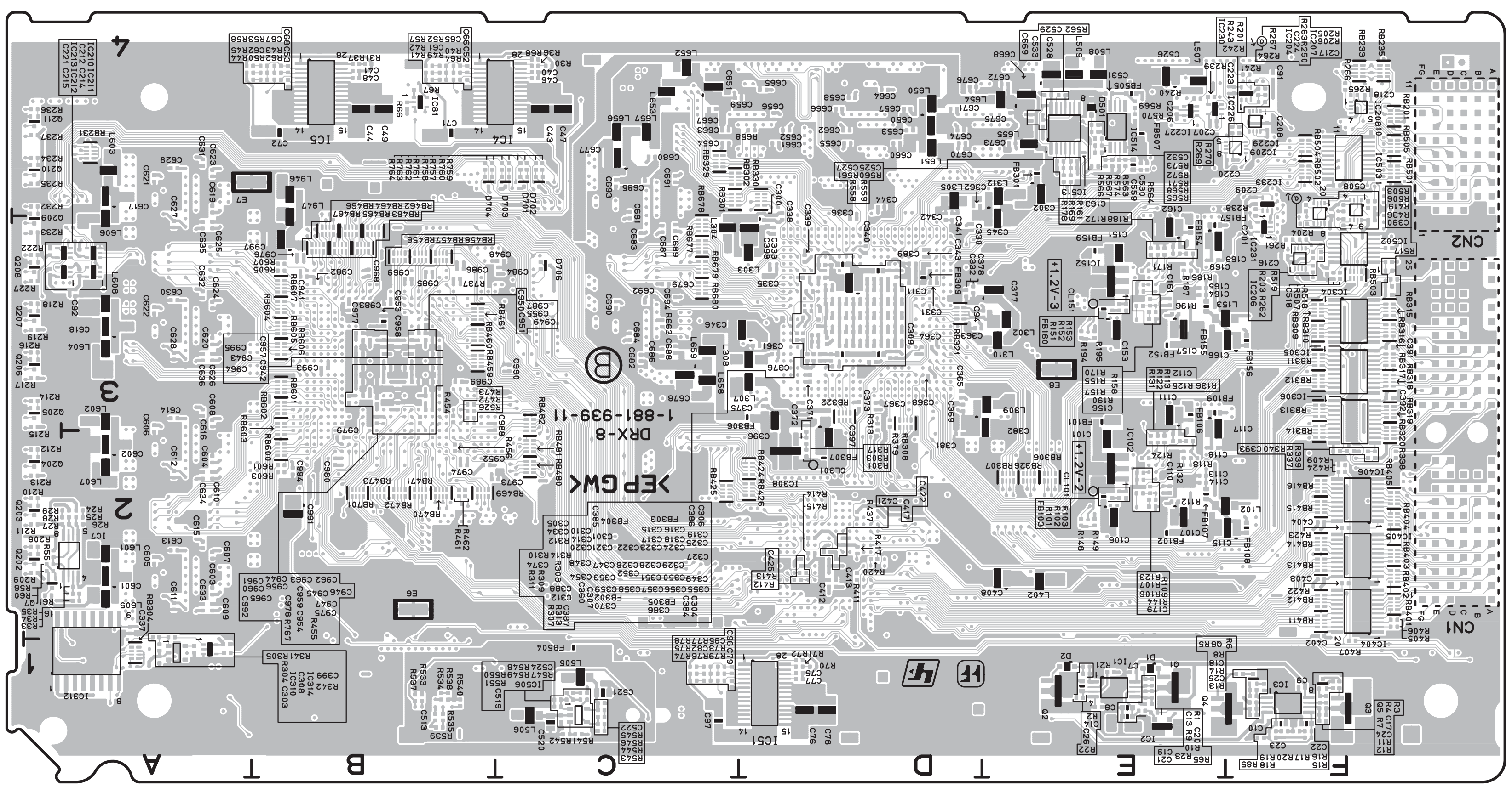


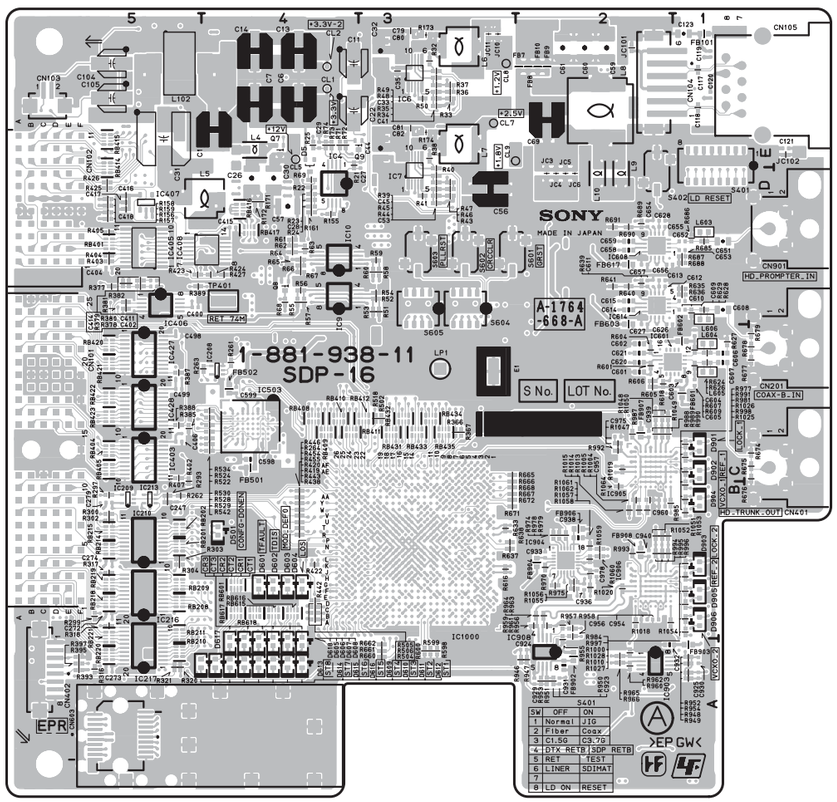
DRX-8 -A SIDE-
SUFFIX:-11
For HKCU2005



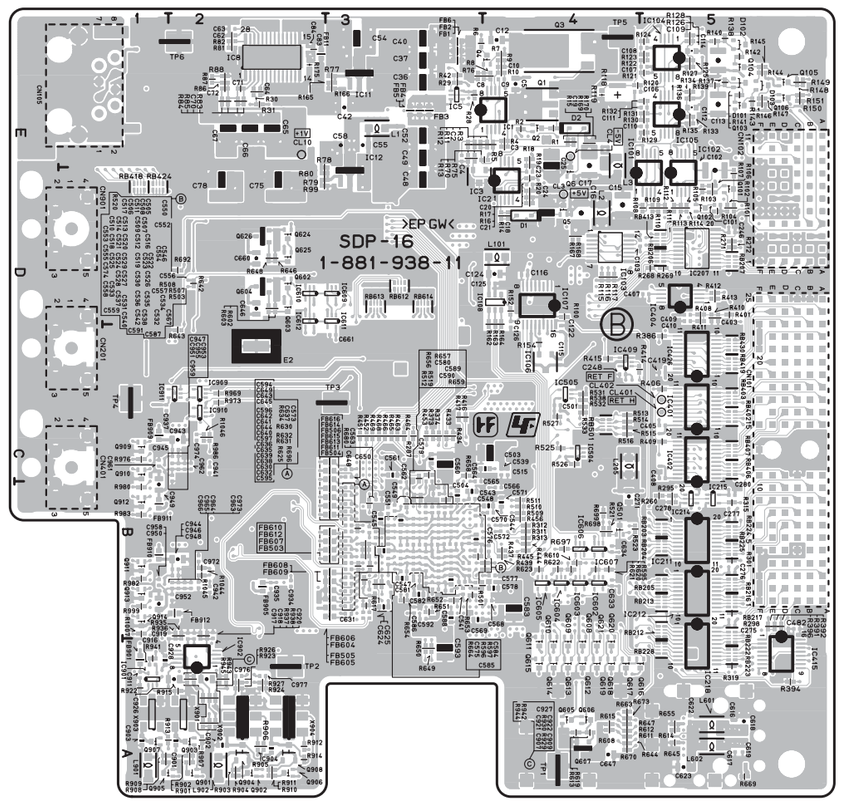
DRX-8 -B SIDE-
SUFFIX:-11
For HKCU2005

DRX-8 (1-881-939-11)
---
*:B SIDE

C1	F1	C109	E2	C323	*D3	C418	D2	C632	*A3	C981	B4	FB154	*E3	IC514	*E4	Q207	*A3	R116	E3	R215	*A3	R410	F2	R565	*E4	R744	B2	RB401	*F2	RB638	A4
C2	F1	C110	*E2	C324	*D3	C419	D2	C633	*A2	C982	*B3	FB155	*E3	IC515	E4	Q208	*A3	R117	E3	R216	*A3	R411	*D2	R566	*E4	R745	C3	RB402	*F2	RB639	A4
C3	E1	C111	*E3	C325	*D3	C420	D2	C634	*A2	C983	*B3	FB156	*F3	IC516	E4	Q209	*A3	R118	*E2	R217	*A3	R412	*D2	R567	*E4	R746	C3	RB403	*F2	RB640	A4
C4	E1	C112	*E2	C326	*D3	C421	*D2	C635	*A3	C984	*C3	FB157	*E3	IC530	E4	Q210	*A4	R119	E2	R218	*A3	R413	*D2	R568	*E4	R747	A1	RB404	*F2	RB641	A4
C5	F1	C113	*E2	C327	*D3	C422	*D2	C636	*A3	C985	*B3	FB158	F3	IC531	E4	Q211	*A4	R120	E2	R219	*A3	R414	*D2	R569	*E4	R748	A1	RB405	*F2	RB642	A3
C6	F1	C114	*E2	C328	*D3	C423	D2	C650	*D4	C986	*B3	FB159	*E3	IC601	A2	Q701	B1	R121	E3	R220	A3	R415	*D2	R570	*E4	R749	A1	RB406	F2	RB643	A3
C7	*E1	C115	*F2	C329	*D3	C424	D2	C651	*C4	C987	*B3	FB160	*E3	IC602	A2	Q702	B1	R122	*E2	R221	A3	R416	D1	R571	*E4	R750	B1	RB407	F2	RB644	A3
C8	*E1	C116	E2	C330	*D3	C425	*D2	C652	*D4	C988	*B3	FB301	*E4	IC603	A4	R1	*E1	R123	*E2	R222	*A3	R417	*D2	R572	*E4	R751	B2	RB408	F2	RB645	A3
C9	*F1	C117	*E3	C331	*D3	C426	C2	C653	*D4	C989	*B3	FB302	*D3	IC604	A3	R2	*E1	R124	*E2	R223	A3	R418	D2	R573	*E4	R752	B2	RB409	F2	RB646	A3
C10	*F1	C118	*E2	C332	*D3	C427	D2	C654	*C4	C990	*C3	FB303	*D3	IC651	D4	R3	*F1	R125	*E2	R224	A3	R419	*F3	R574	*E4	R753	B2	RB410	F2	RB647	A3
C11	B4	C119	E2	C333	*D3	C428	D2	C655	*D4	C991	*B2	FB304	*D3	IC652	D4	R4	*F1	R126	E2	R225	A3	R420	*D2	R575	E4	R754	B2	RB411	*F2	RB648	A3
C12	C4	C120	E2	C334	*D3	C429	F1	C656	*D4	C992	*B3	FB305	*D3	IC653	E4	R5	*F1	R127	E3	R226	A3	R421	F1	R576	E4	R755	B2	RB412	*F2	RB649	A3
C13	*E1	C121	F2	C335	*D3	C430	F1	C657	*D4	C993	*B3	FB306	*D3	IC654	C3	R6	*F1	R128	E2	R227	*A3	R422	*F2	R577	E4	R756	B2	RB413	*F2	RB650	D4
C14	*E1	C122	F2	C336	*D3	C431	D1	C658	*D4	C994	*B2	FB307	*D2	IC655	C4	R7	*F1	R129	E3	R228	A3	R423	*F2	R578	E4	R757	*C4	RB414	*F2	RB651	D4
C15	B4	C123	E2	C337	*A2	C432	D1	C659	*C4	C995	*B3	FB309	*D3	IC701	B2	R8	*F1	R130	E2	R229	A3	R424	*F2	R579	E4	R758	*C4	RB415	*F2	RB652	D4
C16	B4	C124	E2	C338	*D3	C501	F3	C660	*D4	C996	B3	FB401	D1	IC702	B2	R9	*E1	R131	*E2	R230	A3	R425	F2	R580	E4	R759	*C4	RB416	*F2	RB653	D4
C17	*F1	C125	E2	C339	*D3	C502	F2	C661	*D4	C997	*B3	FB501	F3	IC703	B2	R10	*E1	R132	*E2	R231	A3	R426	F2	R581	E4	R760	*C4	RB417	F2	RB654	D4
C18	*F1	C126	F2	C340	*D3	C503	F3	C662	*D4	C998	C2	FB502	F2	IC710	B1	R11	*F1	R133	E3	R232	*A4	R427	F2	R582	E4	R761	*C4	RB418	F2	RB655	D4
C19	*E1	C127	E2	C341	*D3	C504	F3	C663	*C4	CL1	E1	FB503	C2	IC730	C3	R12	*F1	R134	E2	R233	*A3	R428	D1	R583	E4	R762	*C4	RB419	F2	RB656	D4
C20	*E1	C128	E2	C342	*D3	C505	F3	C664	*D4	CL2	E1	FB504	*C1	IC999	B3	R13	*F1	R135	F2	R234	*A4	R430	F1	R584	E4	R763	*B4	RB420	F2	RB657	D4
C21	*E1	C151	*E3	C343	*D3	C506	F3	C665	*D4	CL3	F1	FB505	*E4	JC1	E1	R14	*F1	R136	*E2	R235	*A4	R431	D2	R585	E4	R764	*B4	RB421	F2	RB658	D4
C22	*F1	C152	E3	C344	*D4	C507	F3	C666	*D4	CL4	E1	FB506	E4	L1	C4	R15	*F1	R137	E3	R236	*A4	R432	D2	R588	F4	R765	B2	RB422	F2	RB659	D4
C23	*F1	C153	*E3	C345	*E3	C508	*F4	C667	*C4	CL5	B4	FB507	*E4	L2	B4	R16	*F1	R138	E3	R237	*A4	R433	D2	R589	E4	R766	B2	RB423	F2	RB660	D4
C24	*F1	C154	E3	C346	*D3	C509	F3	C668	*E4	CL6	A4	FL501	C1	L4	B4	R17	*F1	R139	E3	R238	*F4	R434	D2	R590	F4	R767	*B3	RB424	*D2	RB661	D4
C25	*F1	C155	E3	C347	*D3	C510	B1	C669	*E4	CL7	D1	IC1	*E1	L6	B4	R18	*F1	R140	E2	R239	*E4	R435	D2	R593	E4	R768	B1	RB425	*C2	RB662	C4
C26	*E1	C156	*E3	C348	*D3	C511	B1	C670	*D4	CL11	C3	IC2	*E1	L7	D1	R19	*F1	R141	E2	R240	*E4	R436	*F3	R601	*B2	R769	B1	RB426	*D2	RB663	C4
C27	E1	C157	*E3	C349	*D3	C512	B1	C671	*D4	CL12	C3	IC3	*F1	L8	C1	R20	*F1	R142	E2	R241	*F4	R437	*D2	R602	B3	R770	B1	RB427	D2	RB664	C4
C28	E1	C158	E3	C350	*D3	C513	*B1	C672	*E4	CL15	B2	IC4	*C4	L101	E2	R21	*E1	R143	E2	R242	*F4	R450	B3	R603	*B2	R771	B1	RB428	D2	RB665	C4
C29	F1	C159	E3	C351	*D3	C514	B1	C673	*E4	CL16	B2	IC5	*B4	L102	*E2	R22	*E1	R144	*E2	R243	*F4	R451	B3	R604	A2	R772	B1	RB456	*B3	RB666	D4
C30	F1	C160	E3	C352	*D3	C516	B1	C674	*D4	CL23	B2	IC7	*A2	L152	E3	R23	*E1	R145	F3	R244	A3	R452	B3	R605	*B3	R773	B1	RB457	*B3	RB667	D4
C31	F1	C161	*E3	C353	*D3	C517	B1	C675	*E4	CL24	B2	IC51	*D1	L153	*E3	R24	*A2	R146	F3	R250	*F3	R453	B3	R606	B3	R777	C3	RB458	*B3	RB668	D4
C32	F1	C162	*E3	C354	*D3	C518	*F3	C676	*D4	CL31	D2	IC81	*B4	L301	E4	R25	*A2	R148	*E2	R261	*F3	R454	*B3	R607	*B3	RB101	E2	RB459	*B3	RB669	D4
C33	E1	C163	*E3	C355	*D3	C519	*C1	C677	*C4	CL32	D2	IC101	E2	L302	*E3	R26	*A2	R149	*E2	R262	*F3	R455	*B3	R608	A4	RB102	E2	RB460	*B3	RB670	D4
C34	E1	C164	*E3	C356	*D3	C520	*C1	C678	*C3	CL51	C1	IC102	*E2	L303	*D3	R27	*A2	R150	E4	R263	*F4	R456	*B2	R610	A2	RB103	E2	RB461	*B3	RB671	D4
C35	F1	C165	*E3	C357	*D3	C521	*C1	C679	*C3	CL101	*E2	IC103	E2	L304	*C3	R28	*A2	R151	*E3	R264	*F3	R460	B2	R612	A2	RB104	E3	RB462	*B3	RB672	D4
C36	F1	C166	*F3	C358	*D3	C522	*C1	C680	*C4	CL151	*E3	IC105	F2	L305	*D4	R29	*A2	R152	*E3	R265	*F4	R461	*B2	R614	A4	RB105	E3	RB463	*B3	RB673	E4
C37	C4	C167	E3	C359	*D3	C524	*C1	C681	*C4	CL301	*D2	IC151	E3	L306	E4	R30	*C4	R153	*E3	R266	*F4	R462	*B2	R616	A3	RB151	E3	RB464	*B3	RB674	E4
C38	B4	C168	*E3	C360	*D3	C525	*E4	C682	*C3	CL302	D4	IC152	*E3	L307	*D3	R31	*B4	R154	E3	R267	*F4	R463	C2	R651	D4	RB152	E3	RB465	*B3	RB675	E4
C40	*C4	C169	*E3	C361	*D3	C526	*E4	C683	*C3	CL303	D4	IC154	E3	L308	*D3	R32	B4	R155	*E3	R269	*F4	R464	C2	R652	D4	RB153	E3	RB466	*B3	RB676	E4
C41	*B4	C171	E3	C362	*D4	C527	*E4	C684	*C3	CL304	D4	IC155	F3	L309	*E3	R33	*A2	R156	E3	R270	*F4	R471	B3	R653	D4	RB154	E3	RB467	*B3	RB677	*C3
C42	C1	C172	E3	C363	*D3	C528	*E4	C685	*C4	CL305	D3	IC201	F4	L310	*E3	R34	*A2	R157	*E3	R272	F4	R472	*B3	R654	D4	RB155	E3	RB469	*B2	RB678	*C3
C43	*C4	C173	F3	C364	*D3	C529	*E4	C686	*C3	CL306	C3	IC202	F4	L311	E4	R35	*A2	R158	*E3	R273	F4	R473	*B3	R655	D4	RB201	*F4	RB470	*B2	RB679	*C3
C44	*B4	C174	F3	C365	*D3	C530	*E4	C687	*C3	CL307	C3	IC203	F4	L312	*E4	R36	*C4	R159	E3	R301	*D2	R501	F3	R656	E4	RB202	F4	RB471	*B2	RB680	*C3
C45	D1	C176	F3	C366	*D3	C531	*E4	C688	*C3	CL401	D2	IC204	*F4	L401	D1	R37	*B4	R160	E3	R302	D2	R502	F2	R657	E4	RB203	F3	RB472	*B2	RB681	C3
C46	*C4	C177	E3	C367	*D3	C532	*E4	C689	*C3	CL402	D2	IC205	A3	L402	*E2	R38	B4	R161	*E3	R303	*D2	R503	*F3	R658	*D4	RB204	F4	RB473	*B2	RB682	C3
C47	*C4	C178	E3	C368	*D3	C533	*E4	C690	*C3	CN1	F2	IC206	*F3	L403	C2	R39	D1	R162	E3	R304	*A1	R504	F3	R662	C3	RB205	F4	RB475	C2	RB683	C3
C48	*B4	C179	*E2	C369	*D3	C534	E4	C691	*C4	CN2	F4	IC207	*F4	L501	F3	R40	*B4	R163	E3	R305	*A2	R505	F2	R663	*C3	RB206	F4	RB476	C2	RB684	C3
C49	*B4	C180	E3	C370	*D3	C535	E4	C692	*C3	CN3	A1	IC208	*F4	L502	F3	R41	*B4	R164	E3	R306	A2	R506	*F3	R664	C4	RB207	F4	RB477	B2	RB685	C4
C52	*B4	C181	E3	C371	*D3	C536	E4	C693	*C4	D1	*E1	IC209	*F4	L503	B1	R42	*B4	R165	E3	R307	*D3	R507	*F3	R665	C4	RB208	F4	RB478	B2	RB686	C4
C53	*B4	C201	*F3	C372	*D3	C537	E4	C694	*C3	D2	*E1	IC210	*A3	L504	B1	R43	*B4	R166	E3	R308	*D3	R508	F3	R666	C3	RB209	F4	RB479	B2	RB687	C4
C55	B4	C202	F4	C373	*D3	C538	E4	C730	C3	D3	A2	IC211	*A3	L505	*C1	R44	*A4	R167	E3	R309	*D3	R509	F2	R667	C3	RB210	F3	RB480	*C2	RB688	C4
C56	B4	C203	F4	C374	*D3	C539	E4	C757	B2	D201	A2	IC212	*A3	L506	*C1	R45	*A4	R168	E3	R310	*D3	R510	F3	R701	B2	RB211	F4	RB481	*C2	RB689	C3
C58	B4	C204	F4	C375	*D3	C540	E4	C758	B2	D202	A2	IC213	*A3	L507	*E4	R49	*B4	R169	*E3	R311	*D3	R511	F3	R702	C3	RB212	F4	RB482	*C3	RB690	C3
C59	B4	C205	F4	C376	*D3	C541	E4	C759	B2	D203	A2	IC226	*E4	L508	*E4	R50	*B4	R170	*E3	R312	*D3	R512	F3	R703	B2	RB213	F4	RB483	C2	RB691	C3
C61	*B4	C206	*E4	C377	*E3	C542	E4	C941	*B3	D204	A3	IC227	*E4	L509	*E4	R52	*B4	R171	*E3	R313	*D3	R513	F3	R704	C3	RB214	F4	RB484	C2	RB692	C3
C62	*B4	C207	*E4	C378	*D3	C543	E4	C942	*B3	D205	A3	IC228	F4	L510	E4	R53	*B4	R172	*E3	R314	*D3	R514	F3	R705	B2	RB215	F3	RB485	C3	RB693	C3
C63	B4	C208	*F4	C379	E2	C544	E4	C943	*B3	D206	A3	IC229	*F4	L511	E4	R55	*A2	R173	E3	R315	D2	R515	F3	R706	B2	RB218	F4	RB486	C3	RB694	C3
C65	*B4	C209	*F4	C380	E2	C545	E4	C944	*B3	D207	A3	IC230	*F4	L601	*A2	R56	*A2	R174	E3	R316	D2	R516	F3	R707	B2	RB219	F4	RB487	C3	RB695	C3
C66	*B4	C210	F4	C381	*D2	C548	E4	C945	*B3	D208	A3	IC231	*F3	L602	*A3	R57	*B4	R175	E3	R317	*D3	R517	*F3	R708	B2	RB221	F4	RB501	*F4	RB696	C3
C67	*B4	C212	*A3	C382	*E3	C549	E4	C946	*B3	D209	A4	IC232	F4	L603	*A4	R58	*A4	R176	E3	R318	*D3	R518	*F3	R709	B2	RB222	F4	RB502	*F4	RB697	D4
C68	*B4	C213	F4	C383	A1	C551	E4	C947	*B3	D210	A4	IC233	*F4	L604	*A3	R60	*A2	R177	E3	R319	D3	R519	*F3	R710	B2	RB223	A3	RB503	*F3	RB701	*B2
C71	*B4	C214	*A3	C384	*D3	C555	E4	C948	*C3	D450	B3	IC301	D3	L605	*A2	R61	*A2	R178	*E3	R335	A1	R526	*B3	R711	B2	RB225	A3	RB504	*F4	RB705	B3
C72	*B4	C215	*A3	C385	*D3	C559	*E4	C949	*B3	D501	*E4	IC302	E2	L606	*A3	R62	*B4	R179	E3	R336	A1	R527	B1	R712	B2	RB230	A4	RB505	*F4	RB706	C3
C74	D1	C216	*F3	C386	*D3	C601	*A2	C950	*B3	D701	*C4	IC303	D2	L607	*A2	R64	*B4	R180	F3	R337	*F2	R528	B1	R713	B2	RB231	*A4	RB506	B1	RB707	C3
C75	*D1	C217	*F3	C387	*D3	C602	*A2	C951	*B3	D702	*C4	IC304	*F3	L608	*A3	R65	*E1	R181	E3	R338	*F2	R529	B1	R714	B2	RB232	A4	RB507	B1	RB708	B3
C76	*D1	C218	*F4	C388	*D3	C603	*A2	C952	*B2	D703	*C4	IC305	*F3	L650	*D4	R66	*B4	R182	E3	R339	*F2	R530	B1	R715	B2	RB233	*F4	RB508	B1	RB731	C3
C77	*D1	C220	*F4	C389	*D3	C604	*A2	C953	*B3	D704	*B4	IC306	*F3	L651	*D4	R67	*B4	R183	E3	R340	*F2	R531	B1	R716	B2	RB235	*F4	RB600	*B2	RB732	C3
C78	*D1	C221	*A3	C390	*F3	C605	*A2	C954	*B3	D705	B2	IC307	D2	L652	*C4	R68	*C4	R184	E3	R341	*A2	R532	B1	R717	A1	RB301	*C4	RB601	*B3	RB733	C3
C79	*C1	C222	A3	C391	*F3	C606	*A3	C955	*B3	D706	*C3	IC308	*D2	L653	*C4	R70	*D1	R185	E3	R342	*A1	R533	*B1	R718	B2	RB302	*C4	RB602	*B3	RV1	B1
C80	C1	C223	*F4	C392	*F3	C607	*A2	C956	*B3	E1	B1	IC310	*A1	L654	*E4	R71	*D1	R186	*E3	R344	A1	R534	*B1	R719	B2	RB304	*A1	RB603	*B3	S1	A4
C81	C1	C224	*F4	C393	*F2	C608	*A3	C957	*B3	E2	A2	IC312	*A1	L655	*E4	R72	*D1	R187	*E3	R362	D3	R535	*B1	R720	B2	RB305	E2	RB604	*B3	S2	A4
C82	*C1	C300	*D3	C394	D2	C609	*A2	C958	*B3	E3	A4	IC313	A1	L656	*C4	R73	*C1	R188	*E3	R363	D4	R536	B1	R721	B2	RB306	*E2	RB605	*B3	S4	C1
C83	E1	C301	*D3	C395	D2	C610	*A2	C959	*B3	E4	F3	IC314	*A1	L657	*C4	R74	*C1	R189	E3	R364	D3	R537	*B1	R722	B2	RB307	*E2	RB606	*B3	THP1	E1
C84	E1	C302	*E4	C396	*D3	C611	*A2	C960	*B3	E5	C4	IC315	A1	L658	*C3	R75	*C1	R190	*E3	R365	D3	R538	*B1	R723	B2	RB308	*D3	RB607	*B3	THP2	E1
C85	F1	C303	*A1	C397	*D2	C612	*A2	C961	*B3	E6	*B2	IC401	D2	L659	*C3	R76	*C1	R191	F4	R366	D3	R539	*B1	R724	B2	RB309	*F3	RB611	A2	THP3	F1
C86	E1	C304	*D3	C398	*D3	C613	*A2	C962	*B3	E7	*A4	IC402	F1	L941	B4	R77	*C1	R192	E4	R367	D3	R540	*B1	R725	B2	RB310	*F3	RB612	A2	THP5	E1
C87	B4	C305	*D3	C399	*A1	C614	*A3	C963	*B3	E8	*E3	IC403	F1	L942	B4	R78	*C1	R194	*E3	R368	D3	R541	*C1	R726	B2	RB311	*F3	RB613	A2	THP6	C4
C88	C4	C306	*D3	C401	F1	C615	*A2	C964	*B3	FB1	C4	IC404	*F2	L943	B2	R79	*C1	R195	*E3	R369	D3	R542	*C1	R727	B2	RB312	*F3	RB614	A2	THP7	B4
C89	E1	C307	*D3	C402	*F2	C616	*A3	C965	*B3	FB2	C4	IC405	*F2	L944	B3	R85	*F1	R196	*E3	R370	D3	R543	*C1	R728	B2	RB313	*F3	RB615	A2	THP9	D1
C90	D1	C308	*A1	C403	*F2	C617	*A4	C966	B2	FB3	B4	IC406	*F2	L945	B4	R101	*E2	R198	E3	R371	D4	R544	*C1	R729	B2	RB314	*F2	RB616	A2	TP1	C2
C91	*F4	C309	*D3	C404	*F2	C618	*A3	C967	B4	FB4	B4	IC407	F2	L946	*B4	R102	*E2	R199	E3	R372	D4	R545	*C1	R730	B2	RB315	*F3	RB617	A2	TP2	B2
C92	*A3	C310	*D3	C405	F2	C619	*A4	C968	*B3	FB51	D1	IC408	F2	L947	*B3	R103	*E2	R201	*F4	R373	D4	R546	*C1	R731	B2	RB316	*F3	RB618	A2	TP501	F3
C93	C1	C311	*D3	C406	F2	C620	*A3	C969	*B3	FB52	D1	IC409	F2	Q1	*E1	R104	E2	R202	A3	R374	D3	R547	*C1	R732	B2	RB317	*F3	RB619	A2	TP502	F3
C94	*E3	C312	*D3	C407	F2	C621	*A4	C970	B2	FB101	*E3	IC410	D1	Q2	*E1	R105	E4	R203	*F3	R375	D3	R548	*C1	R733	B2	RB318	*F3	RB620	A2	X501	E4
C95	*C1	C313	A1	C408	*E2	C622	*A3	C971	B2	FB102	*E2	IC411	F1	Q3	*F1	R106	*E2	R204	*F3	R379	*D3	R549	*C1	R734	C3	RB319	*F3	RB621	A2	X502	E4
C96	*C1	C314	*D3	C409	D2	C623	*A4	C972	B3	FB103	*E2	IC501	F3	Q4	*F1	R107	*E2	R205	*F4	R401	F2	R550	*C1	R735	A1	RB320	*F2	RB622	A2		
C97	*C1	C315	*D3	C410	D2	C624	*A3	C973	*B2	FB105	E2	IC502	*F3	Q5	*F1	R108	E2	R206	*F4	R402	F2	R551	*C1	R736	B3	RB321	*D3	RB623	A3		
C101	*E2	C316	*D3	C411	D2	C625	*A3	C974	*B2	FB106	*E3	IC503	*F4	Q6	*F1	R109	*E2	R208	*A2	R403	F1	R558	*E4	R737	*B3	RB322	*D3	RB624	A3		
C102	E2	C317	*D3	C412	*D2	C626	*A3	C975	*B3	FB107	*E2	IC504	E4	Q7	*A2	R110	E2	R209	*A2	R404	F2	R559	*E4	R738	B2	RB325	D2	RB625	A3		
C103	E2	C318	*D3	C413	*D2	C627	*A3	C976	*B3	FB108	*F2	IC505	B1	Q202	*A2	R111	E2	R210	*A2	R405	*F2	R560	*E4	R739	C3	RB326	*E2	RB626	A3		
C104	E2	C319	*D3	C414	D1	C628	*A3	C977	*B3	FB109	*E3	IC506	*C1	Q203	*A2	R112	*E2	R211	*A2	R406	*F2	R561	*E4	R740	B2	RB327	E2	RB634	A4		
C106	*E2	C320	*D3	C415	D2	C629	*A4	C978	*B3	FB110	F2	IC507	E4	Q204	*A2	R113	*E2	R212	*A2	R407	*F1	R562	*E4	R741	B2	RB328	E2	RB635	A3		
C107	*E2	C321	*D3	C416	D2	C630	*A3	C979	*B2	FB152	*E3	IC512	E4	Q205	*A3	R114	E3	R213	*A2	R408	D1	R563	*E4	R742	B2	RB329	*C4	RB636	A3		
C108	E2	C322	*D3	C417	*D2	C631	*A4	C980	*B2	FB153	E3	IC513	*E4	Q206	*A3	R115	E3	R214	*A3	R409	*F2	R564	*E4	R743	C2	RB330	*D4	RB637	A4		



SDP-16 -A SIDE-
SUFFIX:-11
For HKCU-HB10/15



SDP-16 -B SIDE-
SUFFIX:-11
For HKCU-HB10/15

SDP-16 (1-881-938-11)
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*:B SIDE

C1	E4	C121	E1	C554	*B3	C647	*A4	CN101	C5	IC2	*D4	L205	*C4	R31	*E2	R132	*E5	R395	A5	R601	C2	R699	*B4	R1019	C2	S401	E1
C2	*E3	C122	*C4	C555	*B3	C648	*C3	CN102	E5	IC3	*D3	L601	*A5	R32	E3	R133	*E5	R396	*B5	R602	*D2	R901	*A2	R1020	B2	S402	D2
C3	*E4	C123	E1	C556	*B3	C649	*B3	CN103	E5	IC4	E4	L602	*A5	R33	E3	R134	*E5	R397	A5	R603	*D2	R902	*A2	R1025	B1	S601	D3
C4	*E3	C124	*D4	C557	*B3	C650	*C3	CN104	E2	IC5	*E3	L603	D1	R34	E3	R135	*E5	R401	*D5	R604	C2	R903	*A2	R1026	B1	S602	D3
C5	*E4	C125	*D4	C558	*B3	C651	D1	CN105	E1	IC6	E3	L604	C1	R35	E3	R136	*E5	R402	C5	R605	C2	R904	*A2	R1027	B1	S603	D3
C6	E4	C126	*D4	C559	*B3	C652	D1	CN201	C1	IC7	D3	L605	C1	R36	E3	R137	*E5	R403	D5	R606	C2	R905	*A2	R1028	B1	S604	D3
C7	E4	C246	*D5	C560	*C3	C653	D1	CN401	C1	IC8	*E2	L606	D1	R37	E3	R138	*E5	R404	D5	R607	C1	R906	*A2	R1044	*B2	S605	D3
C8	*E4	C247	B5	C561	*C3	C654	D2	CN402	A5	IC9	D3	L901	*A1	R38	E3	R139	*E5	R405	D5	R608	*A4	R907	*A2	R1045	*B2	TP1	*A4
C9	*E4	C248	*C4	C562	*B3	C655	D2	CN603	A5	IC10	D3	L902	*A2	R39	D3	R140	*E5	R406	*C5	R609	C1	R908	*A1	R1046	*C2	TP2	*A2
C10	*E4	C271	*B4	C563	*B3	C656	D2	CN901	D1	IC11	*E3	LP1	C3	R40	D3	R141	*E5	R407	C5	R610	*B4	R909	*A1	R1047	C2	TP3	*C3
C11	E4	C272	B5	C564	*C4	C657	D2	D1	*D4	IC12	*D3	Q1	*E4	R41	D3	R142	*E5	R408	*D5	R611	*A4	R910	*A2	R1048	C2	TP4	*C1
C12	*E4	C273	A5	C565	*C3	C658	D2	D2	*E4	IC101	*D5	Q2	*E4	R42	*E3	R143	*E5	R409	*C5	R612	*A4	R911	*A2	R1049	C2	TP5	*E4
C13	E4	C274	B5	C566	*B4	C659	D2	D5	E4	IC102	*D5	Q3	*E4	R43	D3	R144	*E5	R410	*D5	R613	*A4	R912	*A2	R1050	C2	TP6	*E2
C14	E4	C275	*B5	C567	*B3	C660	*D2	D101	*E5	IC103	*D4	Q4	*E4	R44	D3	R145	*E5	R411	*D5	R614	*A5	R913	*A1	R1051	B2	TP401	D4
C15	*D4	C276	*B5	C568	*B4	C661	*C3	D102	*E5	IC104	*E5	Q5	*D4	R45	D3	R146	*E5	R412	*D5	R615	*A4	R914	*A2	R1052	B2	X901	*A2
C16	*D4	C277	*B5	C569	*B3	C901	*A2	D103	*E5	IC105	*E5	Q6	*D4	R46	D3	R147	*E5	R413	*D5	R616	B3	R915	*A2	R1053	B2	X902	*A2
C17	*E4	C278	*B5	C570	*B4	C902	*A2	D501	B4	IC106	*C4	Q7	E4	R47	D3	R148	*E5	R414	*C4	R617	*B3	R922	*A1	R1054	B2	X903	*A1
C18	*D4	C279	B5	C571	*B4	C903	*A1	D601	B4	IC107	*D4	Q8	D4	R48	E3	R149	*E5	R415	*C4	R618	C2	R923	*A2	R1055	B2	X904	*A2
C19	*E4	C280	*B5	C572	*B4	C904	*A2	D602	B4	IC108	*D4	Q9	E3	R49	E3	R150	*E5	R416	*C3	R619	*A4	R924	*A2	R1056	B2		
C20	*D4	C400	D5	C573	*B3	C907	*A2	D603	B4	IC207	*D5	Q101	*D5	R50	E3	R151	*E5	R417	*C3	R620	*B4	R926	*A2	R1057	B2		
C21	*D4	C402	D5	C574	*B3	C909	*A2	D604	B4	IC208	C4	Q102	*D5	R51	D3	R152	*D4	R419	B4	R621	*B4	R927	*A2	R1058	B2		
C22	E4	C403	*D5	C575	*B3	C911	*A1	D605	A4	IC209	B5	Q103	*E5	R52	D3	R154	*C4	R420	B4	R622	*B4	R929	*A2	R1059	B2		
C23	*D4	C404	D5	C576	*B4	C916	*A1	D606	A4	IC210	B5	Q104	*E5	R53	D3	R155	D4	R422	B4	R623	*B4	R930	*A2	R1060	B2		
C24	*D4	C405	*C5	C577	*B4	C917	*B2	D607	A4	IC211	*B5	Q105	*E5	R54	D3	R156	D5	R423	D5	R624	C1	R935	*B2	R1061	B2		
C25	*E4	C406	C5	C578	*B4	C918	*B2	D608	A4	IC212	*B5	Q106	*E5	R55	D4	R157	D5	R424	D4	R625	*B3	R936	*B2	R1062	B2		
C26	D4	C407	*D5	C579	*C3	C919	*B2	D609	A4	IC213	B5	Q501	*B4	R56	D4	R158	D5	R425	D5	R626	C1	R937	*B2	R1064	B2		
C27	E3	C408	*C5	C580	*C3	C920	*B2	D610	A4	IC214	*B5	Q602	*D2	R57	D4	R159	D5	R426	D5	R627	C1	R938	*B2	RB201	B5		
C28	D4	C409	*D5	C581	*B3	C921	*A2	D611	A4	IC215	*B5	Q603	*D2	R58	D3	R161	D4	R427	D4	R628	D1	R941	*A1	RB202	B5		
C29	E4	C410	*D5	C582	*B3	C922	*A2	D612	A4	IC216	B5	Q604	*D2	R59	D3	R162	*D4	R433	*C3	R629	D1	R942	*A2	RB203	*B5		
C30	D4	C411	D5	C583	*B4	C923	A2	D613	A5	IC217	A5	Q605	*A4	R60	D3	R163	*D4	R434	*C3	R630	*B3	R943	*A2	RB204	*B5		
C31	E5	C414	D5	C584	*B3	C924	A2	D614	A4	IC218	*B5	Q606	*A4	R61	D4	R164	*D4	R437	*B4	R631	*B3	R944	*A2	RB205	*B5		
C32	E3	C415	D4	C585	*B3	C925	A1	D615	A4	IC401	*C5	Q607	*A4	R62	D4	R165	*E3	R438	B4	R632	*B3	R945	*A2	RB206	*D5		
C33	E3	C416	D5	C586	*B3	C926	*A2	D616	A4	IC402	*C5	Q608	*A4	R63	D4	R166	*E3	R439	*B4	R633	B3	R946	A2	RB207	*D5		
C35	E3	C417	D5	C587	*B3	C927	*A2	D617	A4	IC403	C5	Q609	*A4	R64	D4	R167	*D4	R442	B4	R634	*B3	R947	A2	RB208	B5		
C36	*E3	C418	D5	C588	*B3	C928	*A1	D618	A4	IC404	*D5	Q610	*A4	R65	D4	R168	*D4	R443	B4	R635	D1	R948	A1	RB209	B5		
C37	*E3	C419	*C5	C589	*B3	C929	A2	D901	C1	IC405	D5	Q611	*A4	R66	D4	R169	*E4	R444	*B4	R636	D1	R949	A1	RB210	A5		
C40	*E3	C482	*B5	C590	*B3	C930	A1	D902	C1	IC406	D5	Q612	*A4	R67	D4	R170	*E4	R445	*B4	R637	B3	R950	A2	RB211	B5		
C41	E3	C498	C5	C591	*B3	C931	A2	D903	B1	IC407	D5	Q613	*A4	R68	D4	R171	D4	R446	B4	R638	B3	R951	A2	RB212	*B5		
C42	*E3	C499	C5	C592	*B3	C932	A2	D904	B1	IC408	D4	Q614	*A4	R69	D4	R172	D4	R451	*C3	R639	D2	R952	A1	RB213	*B5		
C44	E3	C501	*C4	C593	*A3	C933	B2	D905	B1	IC409	*C4	Q615	*A4	R70	*E3	R173	E3	R452	*C3	R640	D2	R953	A2	RB214	B5		
C45	D3	C503	*C4	C594	*B3	C934	*B2	D906	B1	IC415	*A5	Q616	*A5	R71	E4	R174	E3	R453	*C3	R641	D2	R954	A1	RB215	B5		
C48	*D3	C504	*B3	C595	*B3	C935	*B2	E1	C3	IC426	*C5	Q617	*A4	R72	E4	R175	*E2	R454	B4	R642	*D2	R955	A2	RB216	*B5		
C49	*E3	C505	*B3	C596	*B3	C936	B2	E2	*C2	IC427	C5	Q618	*A4	R73	E4	R260	*B5	R455	B4	R643	*C2	R956	B2	RB217	*B5		
C52	*E3	C506	*B3	C597	*B3	C937	*C1	FB1	*E3	IC428	C5	Q619	*A4	R74	E4	R261	C4	R456	*B4	R644	*A4	R957	B2	RB218	B5		
C53	D3	C507	*B3	C598	C4	C938	B2	FB2	*E3	IC503	C4	Q620	*A4	R75	*E4	R262	B5	R463	*C3	R645	*A5	R958	B2	RB219	B5		
C54	*E3	C508	*B3	C599	C4	C939	C2	FB3	*E3	IC504	*C4	Q621	*A4	R76	*E3	R263	C4	R464	*C3	R646	*D2	R959	B2	RB220	A5		
C55	*E3	C509	*B3	C601	C2	C940	B2	FB4	*E3	IC505	*C4	Q624	*D2	R77	*E3	R264	B4	R465	*C3	R647	*A4	R960	A2	RB221	B5		
C56	D3	C510	*B3	C602	C2	C941	*C2	FB5	*E3	IC601	C1	Q625	*D2	R78	*E2	R268	*D5	R466	*C3	R648	*D2	R961	B2	RB222	*B5		
C57	D4	C511	*B3	C603	C1	C942	*B2	FB6	*E3	IC602	*B4	Q626	*D2	R79	*D2	R269	*D5	R468	*C3	R649	*A3	R962	A2	RB223	*A5		
C58	*E3	C512	*B3	C604	C1	C943	*C2	FB7	E2	IC603	*B4	Q901	*A2	R80	*D2	R271	*D5	R469	*C3	R650	*A3	R963	B2	RB224	*B5		
C59	E2	C513	*B3	C605	C1	C944	*B2	FB8	E2	IC604	*B4	Q902	*A2	R81	*E2	R272	*D5	R501	*B3	R651	*B3	R964	B2	RB225	*B5		
C60	E2	C514	*B3	C606	C1	C945	*C2	FB9	E2	IC605	*B4	Q903	*A2	R82	*E2	R287	*C3	R502	C3	R652	*B3	R965	A2	RB228	*A5		
C61	E2	C515	*C4	C607	C1	C946	*B2	FB10	E2	IC606	*B4	Q904	*A2	R83	*E2	R293	B5	R503	*B4	R653	*B3	R966	A2	RB401	D5		
C62	*E2	C516	*B3	C608	D1	C947	*C2	FB11	*E2	IC607	*B4	Q905	*A1	R84	*E2	R295	*B5	R504	B4	R654	*B3	R969	*C2	RB402	*C5		
C63	*E2	C517	*B3	C609	D1	C948	*B2	FB101	E1	IC608	D2	Q906	*A2	R85	*E2	R297	B5	R505	B4	R655	*A5	R970	B2	RB403	*C5		
C64	*E2	C518	*B3	C610	D1	C949	*B1	FB501	C4	IC609	*D3	Q907	*A1	R86	*E2	R298	*B5	R506	B4	R656	*C3	R973	*C2	RB404	C5		
C65	*E2	C519	*B3	C611	D2	C950	*B1	FB502	C4	IC610	*D2	Q908	*A2	R87	*E2	R299	B5	R507	*B4	R657	*C3	R974	B2	RB405	C5		
C66	*E2	C520	*B3	C612	D2	C951	*C2	FB503	*B3	IC611	*D3	Q909	*C1	R88	*E2	R300	B5	R508	*B3	R658	*C3	R975	B2	RB406	*C5		
C67	*E2	C521	*B3	C613	D2	C952	*B2	FB504	*B3	IC612	*D2	Q910	*C1	R99	*D2	R301	*B5	R509	*B4	R659	*B3	R976	*C1	RB407	*C5		
C69	E2	C522	*B3	C614	D2	C953	*C2	FB505	*B3	IC614	D2	Q911	*B1	R100	*D4	R302	B5	R510	*B4	R660	A3	R977	C1	RB408	C4		
C70	*E2	C523	*B3	C615	D2	C954	B2	FB506	*C3	IC901	*A1	Q912	*B1	R101	*D5	R303	B5	R511	*B4	R661	A3	R978	B2	RB409	C4		
C71	*E2	C524	*B3	C616	*A5	C955	*C2	FB601	C1	IC902	*A2	Q913	*B1	R102	*D5	R304	B5	R512	*B3	R662	A3	R979	B2	RB410	C4		
C72	*E2	C525	*B3	C617	*A5	C956	B2	FB602	C1	IC903	A2	Q914	*B1	R103	*D5	R311	*B4	R513	*C4	R663	*A4	R980	*B1	RB411	C4		
C75	*D2	C526	*B3	C618	*A5	C957	B2	FB603	D2	IC904	B2	R1	*E4	R104	*D5	R312	*B4	R514	*C4	R664	*B3	R981	C1	RB412	C3		
C78	*D2	C527	*B3	C619	*A5	C958	*B1	FB604	*B3	IC905	C2	R2	*E4	R105	*D5	R313	*B4	R515	*C4	R665	C3	R982	*B1	RB413	*D5		
C79	E3	C528	*B3	C620	C2	C959	*C2	FB605	*B3	IC906	B2	R3	*E4	R106	*D5	R315	*B5	R516	*C4	R666	C3	R983	*B1	RB414	D5		
C80	E3	C529	*B3	C621	C2	C960	B2	FB606	*B3	IC908	B2	R4	*E4	R107	*D5	R316	A5	R518	C3	R667	B3	R984	B1	RB415	E5		
C81	E3	C530	*B3	C622	*A5	C961	*C1	FB607	*B3	IC909	*C2	R5	*E4	R108	*D5	R317	B5	R519	*B3	R668	B3	R985	B2	RB416	D4		
C82	E3	C531	*B3	C623	*A5	C962	*C2	FB608	*B3	IC910	*C2	R6	*E3	R109	*D5	R318	B5	R520	*B3	R669	*A5	R986	*C2	RB417	D4		
C83	*E2	C532	*B3	C624	*B3	C963	*B2	FB609	*B3	IC911	*C2	R7	*E4	R110	*D5	R319	*A5	R521	*B4	R670	*A4	R987	C2	RB418	*D1		
C84	*E2	C533	*B3	C625	*B3	C964	*B2	FB610	*B3	IC1000	B3	R8	*E4	R111	*D5	R320	A5	R522	C4	R671	B3	R988	C2	RB419	*C5		
C101	*D5	C534	*B3	C626	D2	C965	*B2	FB611	*B3	JC3	D2	R9	*E4	R112	*D5	R321	A5	R523	*B4	R672	B3	R989	C2	RB420	C5		
C102	*D5	C535	*B3	C627	D2	C966	*B2	FB612	*B3	JC4	D2	R10	*E4	R113	*D5	R366	C3	R524	C4	R673	*A4	R990	C2	RB421	C5		
C103	*D5	C536	*B3	C628	D2	C972	*B2	FB613	*B3	JC5	D2	R11	*E3	R114	*D5	R367	C3	R525	*C4	R674	C1	R991	C1	RB422	C5		
C104	E5	C537	*B3	C630	*B3	C973	*B2	FB614	*C3	JC6	D2	R12	*E3	R115	*D4	R373	*C3	R526	*C4	R675	C1	R992	C2	RB423	C5		
C105	E5	C538	*B3	C631	*B3	C974	*C2	FB615	*B3	JC10	E3	R13	*E3	R116	*D4	R374	*C3	R527	*C4	R676	C1	R993	B2	RB424	*D1		
C106	*E4	C539	*C4	C632	*B3	C975	C2	FB616	*C3	JC11	E3	R14	*D4	R117	*D4	R377	D5	R528	C4	R677	C1	R994	B2	RB430	*C5		
C107	*E5	C540	*B3	C633	*B4	C976	*A2	FB617	D2	JC101	E2	R15	*E4	R118	*E4	R378	D5	R529	C4	R678	C1	R995	B2	RB431	C3		
C108	*E5	C541	*B3	C634	*B4	C977	*A2	FB901	*A1	JC102	E1	R16	*D4	R119	*E4	R379	D5	R530	C4	R679	C1	R996	B2	RB432	C3		
C109	*E5	C542	*B3	C635	*B3	C978	B2	FB902	A2	L1	*E3	R17	*D4	R120	*E4	R380	D5	R531	*C4	R680	*B3	R997	B1	RB433	C3		
C110	*E5	C543	*B3	C636	*B3	CL1	E4	FB903	A1	L2	*D4	R18	*E4	R121	*E5	R381	D5	R532	*C4	R685	D1	R998	B1	RB434	C3		
C111	*E5	C544	*B4	C637	*B3	CL2	E4	FB904	B2	L3	*E4	R19	*E4	R122	*E5	R382	D5	R533	*C4	R686	D1	R999	*B1	RB435	C3		
C112	*E5	C545	*B3	C638	*B3	CL3	*D4	FB905	*B2	L4	E4	R20	*D4	R123	*E5	R385	C5	R534	C4	R687	D1	R1000	B1	RB501	*C4		
C113	*E5	C546	*B3	C639	*B3	CL4	*E4	FB906	B2	L5	D4	R21	E4	R124	*E5	R386	*C5	R538	*C4	R688	D1	R1004	B2	RB601	B4		
C114	*E5	C547	*B3	C640	*B3	CL401	*C5	FB907	C2	L6	E3	R22	D4	R125	*E5	R387	C5	R542	C4	R689	D2	R1005	B2	RB612	*D3		
C115	*C4	C548	*B3	C641	*B3	CL402	*C5	FB908	B2	L7	E3	R23	D4	R126	*E5	R388	C5	R595	*B4	R690	D2	R1007	*B1	RB613	*D3		
C116	*D4	C549	*B3	C642	*B3	CL5	E4	FB909	*C1	L8	E2	R24	D4	R127	*E5	R389	D5	R596	*B3	R691	D2	R1010	B1	RB614	*D3		
C117	E1	C550	*B3	C643	*B3	CL7	E3	FB910	*B1	L9	D2	R25	E4	R128	*E5	R391	*B5	R597	*B3	R692	*D2	R1013	B2	RB615	B4		
C118	E1	C551	*B3	C644	*B3	CL8	E3	FB911	*B1	L10	D2	R28	*E3	R129	*E5	R392	*B5	R598	A3	R696	*B3	R1014	B2	RB616	B4		
C119	E1	C552	*B3	C645	*B3	CL9	E2	FB912	*B2	L101	*D4	R29	*E3	R130	*E5	R393	A5	R599	A3	R697	*B4	R1015	B2	RB617	B4		
C120	E1	C553	*B3	C646	*D2	CL10	*E2	IC1	*E4	L102	E5	R30	*E2	R131	*E5	R394	*A5	R600	A3	R698	*B4	R1018	B2	RB618	B4		

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