

7. Insert the PCBs.
 - a. Insert the CTM PCBs of the Slot No. N and C and fasten the two screws on each PCB.
 - b. Connect the sub-edge cables to the CTM PCB of the Slot No. N.

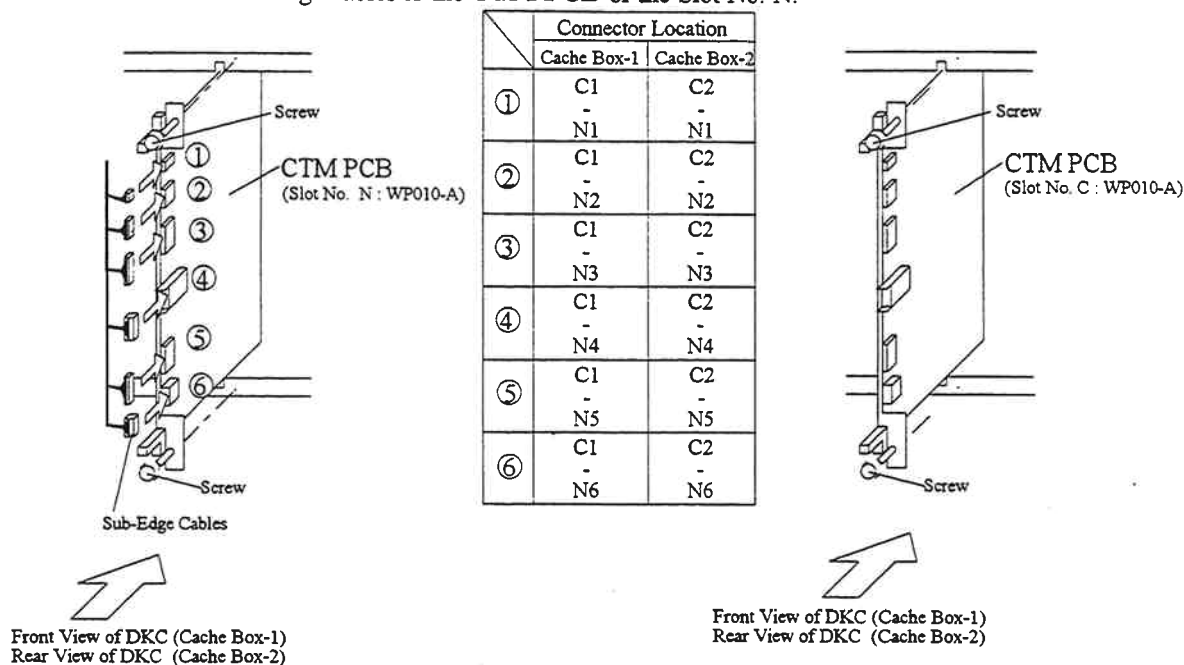


Fig. 3.3.7.7.2-39 Insertion of the Cache PCB

- c. While referring to Fig. 3.3.7.7.2-40 and Table 3.3.7.7.2-5, insert the CPS PCB into the Cache Box and fasten the two screws.
- d. Connect the sub-edge cables to the PCB and fix them with the cable clips.
- e. Fasten the cable cover buttons to close the cable cover.

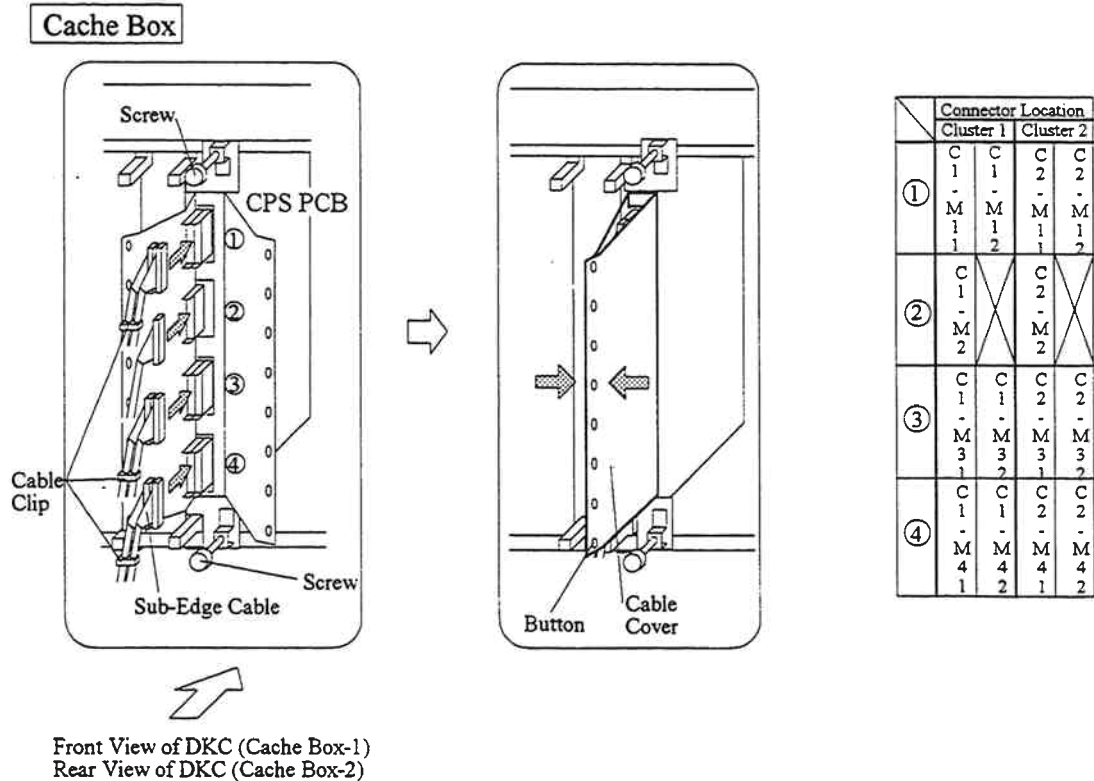


Fig. 3.3.7.7.2-40 Insertion of the Cache PCB

Table 3.3.7.7.2-5 Location of the Cache PCB

Cluster	PCB Name	Box	Slot No.	Location No.	Remarks
1	WP004-B / WP014-B	Cache Box-1	M	CPS-C1M	CPS PCB
2	WP004-B / WP014-B	Cache Box-2	M	CPS-C2M	CPS PCB

f. Insert the Cache Memory PCBs into the Cache Box and fasten the screws.

Table 3.3.7.7.2-6 Location of the Cache PCB

Cluster	PCB Name	Box	Slot No.	Location No.	Remarks
1	WP008-A / WP018-A	Cache Box-1	D	CACHE-C1D	Cache Memory PCB
	WP008-B / WP018-B	Cache Box-1	E	CACHE-C1E	Cache Memory PCB
2	WP008-A / WP018-A	Cache Box-2	D	CACHE-C2D	Cache Memory PCB
	WP008-B / WP018-B	Cache Box-2	E	CACHE-C2E	Cache Memory PCB

g. Loosen the two screws to open the cover. See Table 3.3.7.7.2-7 and Fig. 3.3.7.7.2-41 to insert cables ① to ⑦ into the specified positions. Then close the cover and tighten the screws.

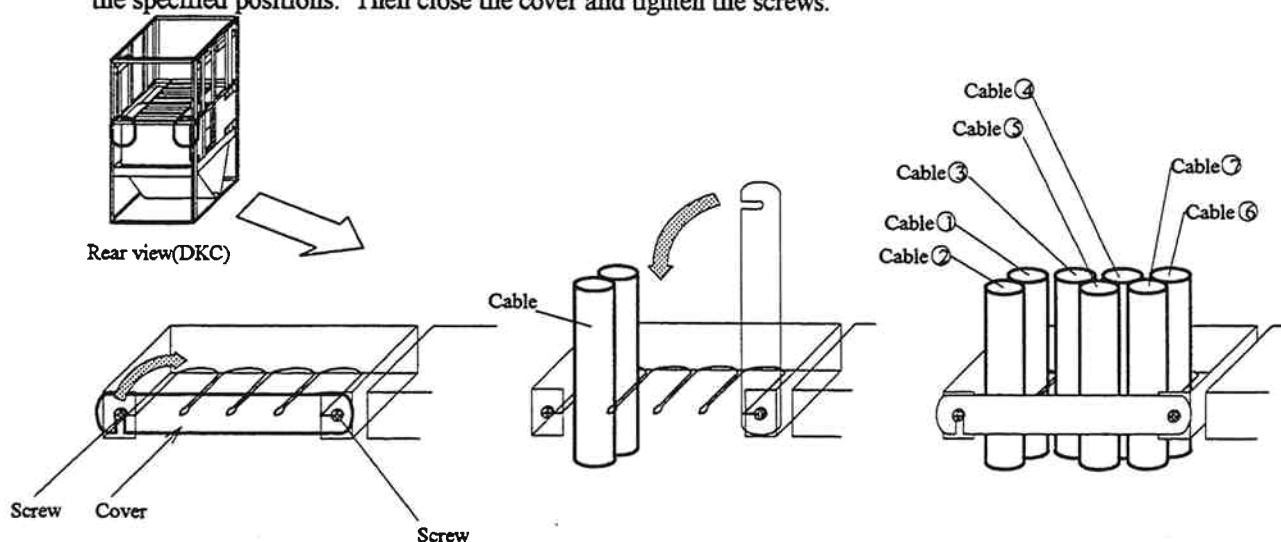


Fig. 3.3.7.7.2-41 Attachment of the Cables

Table 3.3.7.7.2-7 Number of Cables and corresponding Connector Location

Cable No.	Cluster 1		Cluster 2	
	From	To	From	To
①	1•C11	C1•M11	2•T11	C2•M11
②	1•C12	C1•M12	2•T12	C2•M12
③	1•C2	C1•M2	2•T2	C2•M2
④	1•C31	C1•M31	2•T31	C2•M31
⑤	1•C32	C1•M32	2•T32	C2•M32
⑥	1•C41	C1•M41	2•T41	C2•M41
⑦	1•C42	C1•M42	2•T42	C2•M42

- h. Insert the CPM PCB into the Logic Box and fasten the two screws.
- i. Connect the sub-edge cables to the PCB.
- j. Bind the sub-edge cables with the repeat binders to prevent them from sagging and fix them with the cable clips.
- k. Fasten the cable cover buttons to close the cable cover.

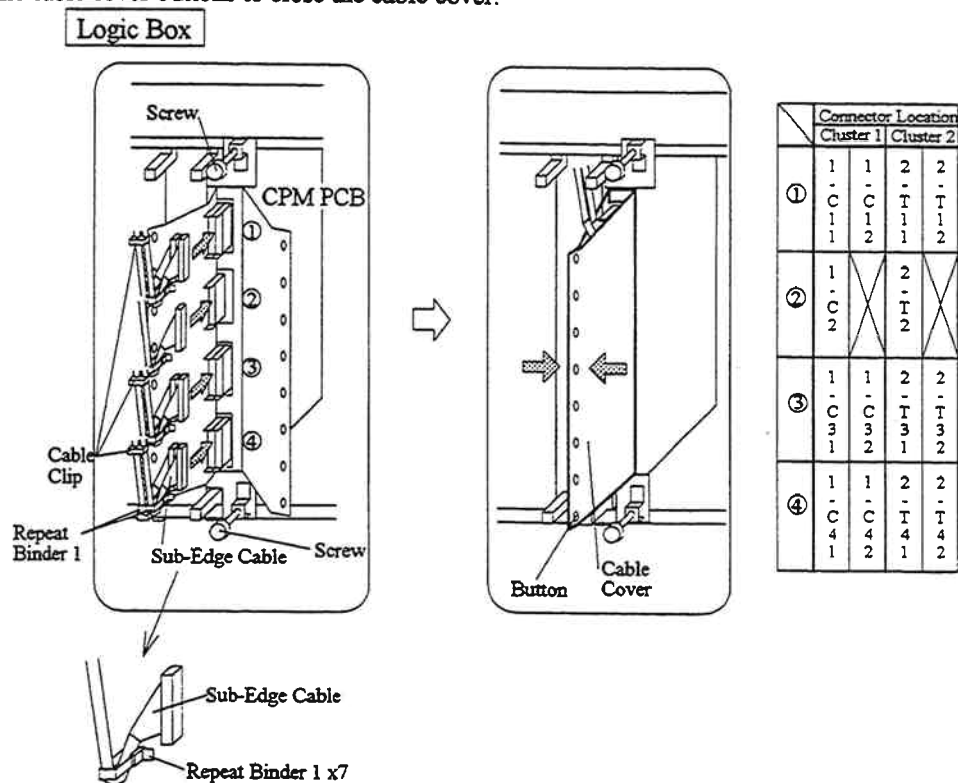


Fig. 3.3.7.7.2-42 Insertion of the Cache PCB

Table 3.3.7.7.2-8 Location of the Cache PCB

Cluster	PCB Name	Box	Slot No.	Location No.	Remarks
1	WP004-A / WP014-A	Logic Box	C	CPM-1C	CPM PCB
2	WP004-A / WP014-A	Logic Box	T	CPM-2T	CPM PCB

8. Set the PS Enable/Disable Switch on the 5V and 3.3V Power Supplies to Enable.
 - a. When installing additional cache memory on Cluster 1, set the PS Enable/Disable Switch on the 5V and 3.3V power supplies installed on the Cache Box-1 to (UP) Enable.
 - b. When installing additional cache memory on Cluster 2, set the PS Enable/Disable switch on the 5V and 3.3V power supplies installed on the Cache Box-2 to (UP) Enable.

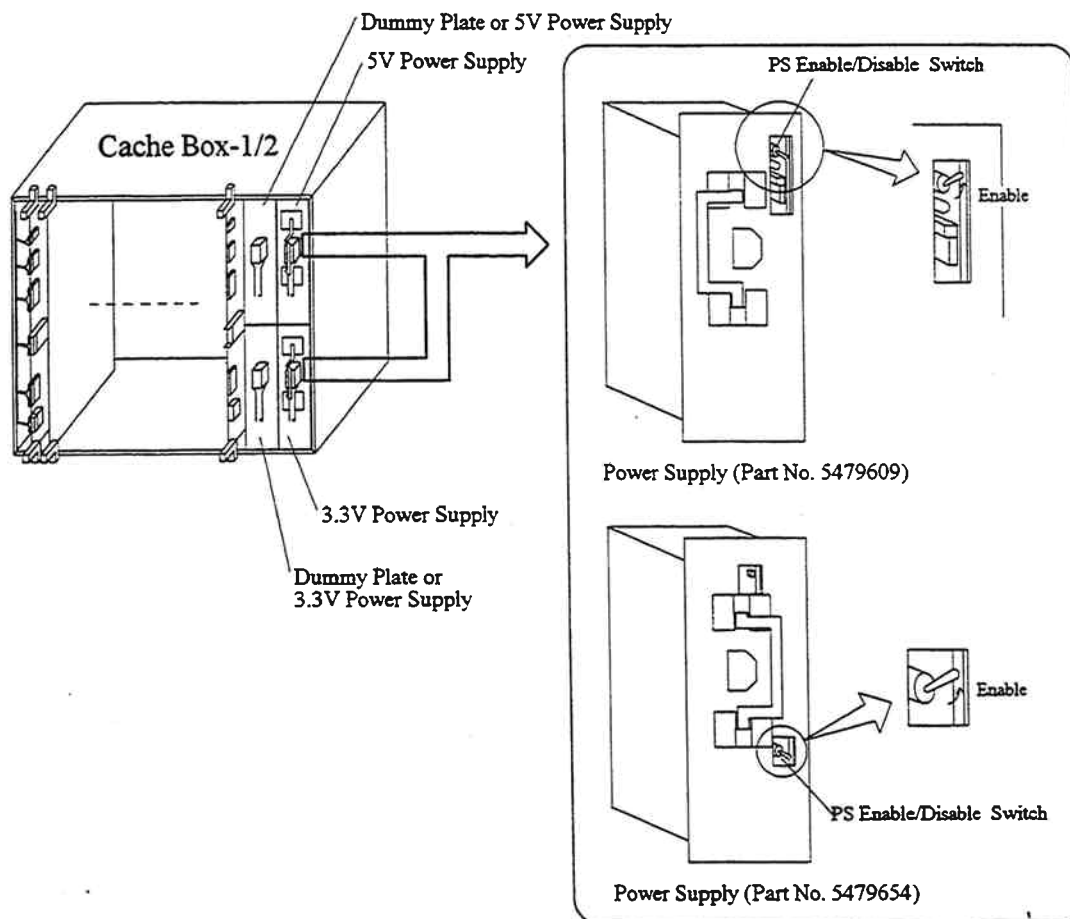


Fig. 3.3.7.7.2-43 Setting the Power Supply Switch to Enable

- c. See CHECK OF DC VOLTAGE in PERIODIC SECTION. Refer to PERIOD02-10 through 30.

9. Change the jumper settings for PWRCTL-1 and PWRCTL-2.
 - a. Remove Movable Rack Cover 2 from the Movable Rack. (Refer to INST03-40.)
 - b. When installing additional cache memory on Cluster 1, change the setting of jumper plug (JP3) for PWRCTL-1 from #1-#2 short to #2-#3 short.

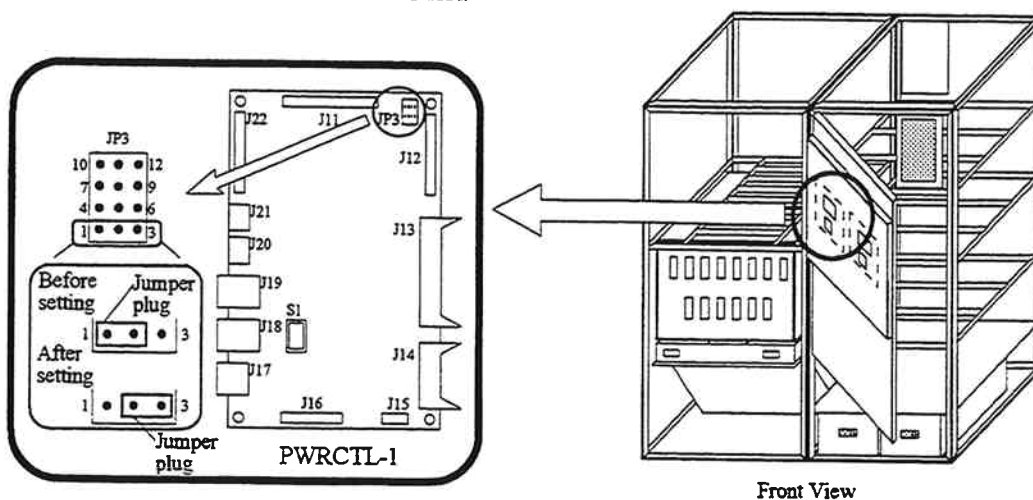


Fig. 3.3.7.7.2-44 Jumper Setting

- c. When installing additional cache memory on Cluster 2, change the setting of jumper plug (JP3) for PWRCTL-1 from #4-#5 short to #5-#6 short. Also, change the settings of jumper plug (JP3) for PWRCTL-2 from #1-#2 short to #2-#3 short and from #4-#5 short to #5-#6 short.

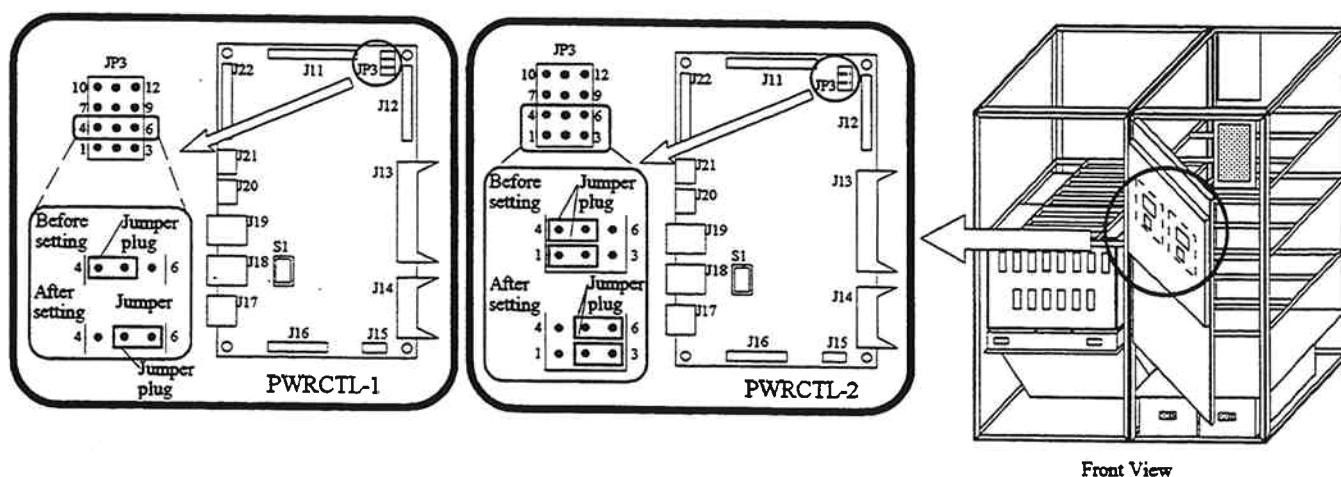


Fig. 3.3.7.7.2-45 Jumper Setting

- d. Attach Movable Rack Cover 2 to Movable Rack. (Refer to INST03-40.)

- e. See Table 3.3.7.7.2-9 to go to flowchart.

Table 3.3.7.7.2-9 Flowchart page

No.	Cache Memory Capacity		Flowchart page	
	Before Installation	After Installation	Cluster 1	Cluster 2
1	4GB or less	6GB or more	INST03-1020 step ⑤	INST03-1030 step ⑩

10. Attach the Nameplates.

- a. Attach the nameplates of DKC-F210I-40 and DKC-F210I-2048.

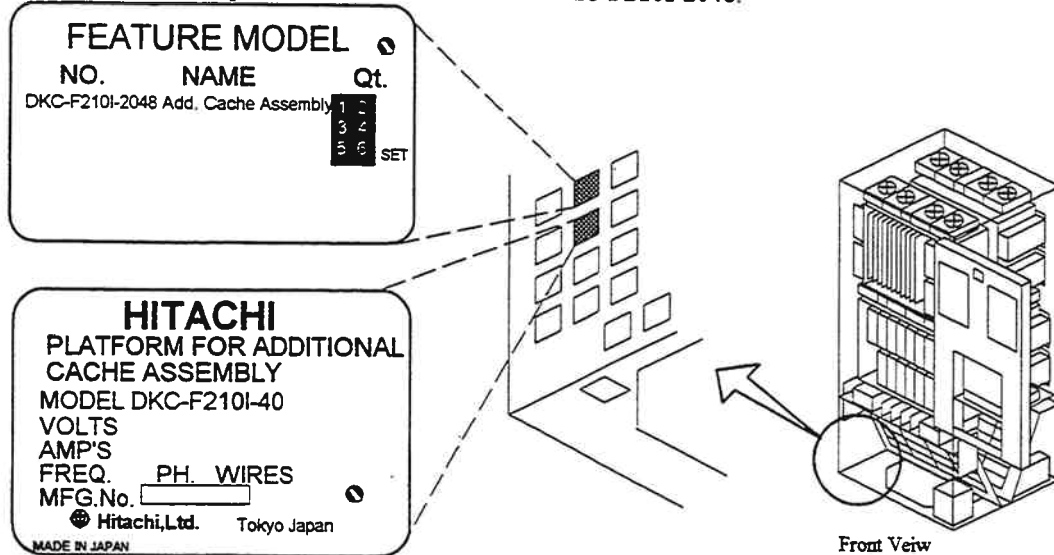


Fig. 3.3.7.7.2-46 Location of the Nameplate

- b. When the Cache redundant power supply (DKC-F210I-72) is installed, attach the nameplate of DKC-F210I-72. (Refer to INST03-1820.)
- c. Loosen the four screws at the side of the Cache Box-1. Attach the two Covers to the Cache Box-1 and secure the four screws. Repeat this procedure for Cache Box-2 (in the rear side).

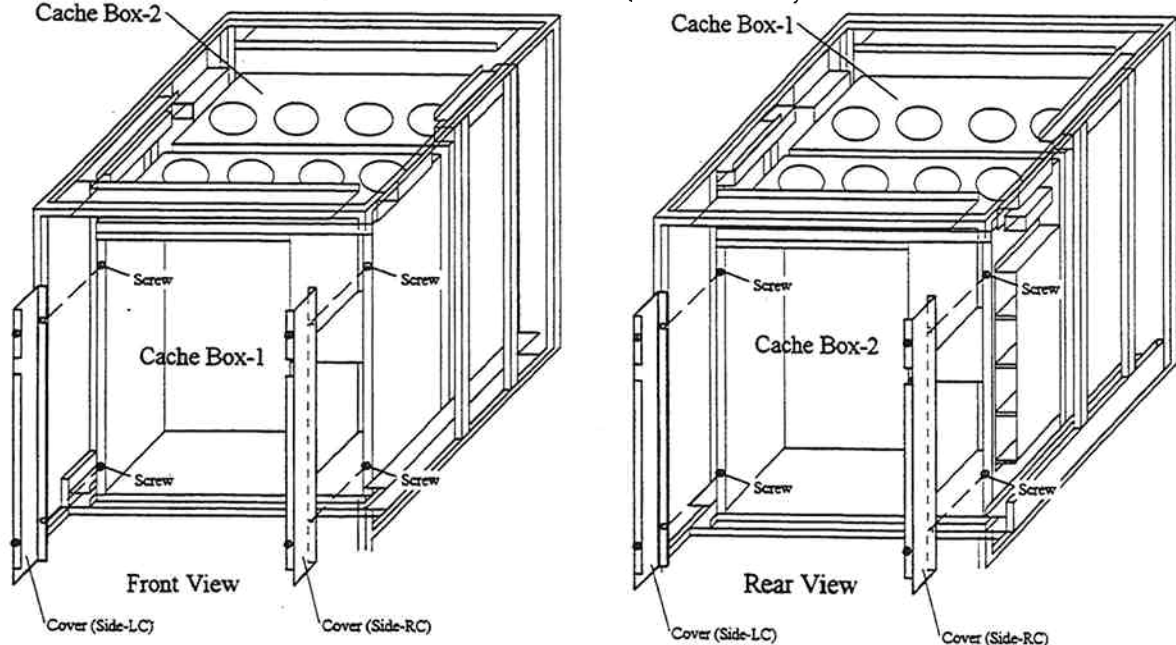


Fig. 3.3.7.7.2-47 Attachment of the Covers

- d. Attach the Cache Box Cover 1 and 2 to Cache Boxes. Refer to INST03-10.
- e. See Table 3.3.7.7.2-10 to go to flowchart.

Table 3.3.7.7.2-10 Flowchart page

No.	Cache Memory Capacity		Flowchart page
	Before Installation	After Installation	
1	4GB or less	6GB or more	INST03-1040 step 15

3.3.7.8 Connection of handling vehicle (Refer to Fig. 3.3.7.8-1)

Notice: Two or more persons must be involved to perform this procedure.

Installation

1. Open the Front Door and Rear Door.
2. Put the Cache Box on the handling vehicle. Move the handling vehicle to the frame and fix it using the casters. At this time, make sure the handling vehicle is stable not to fall down.
3. Close the valve of handling vehicle. Adjust the height to the frame using the pump.
4. Install the Cache Box on the frame.

Removal

1. Open the front door and rear door.
2. Move the handling vehicle to the frame and fix it using the casters. At this time, make sure the handling vehicle is stable not to fall down.
3. Put the Cache Box on the handling vehicle. Close the valve of handling vehicle. Adjust the height to the frame using the pump.
4. Remove the Cache Box from the frame.

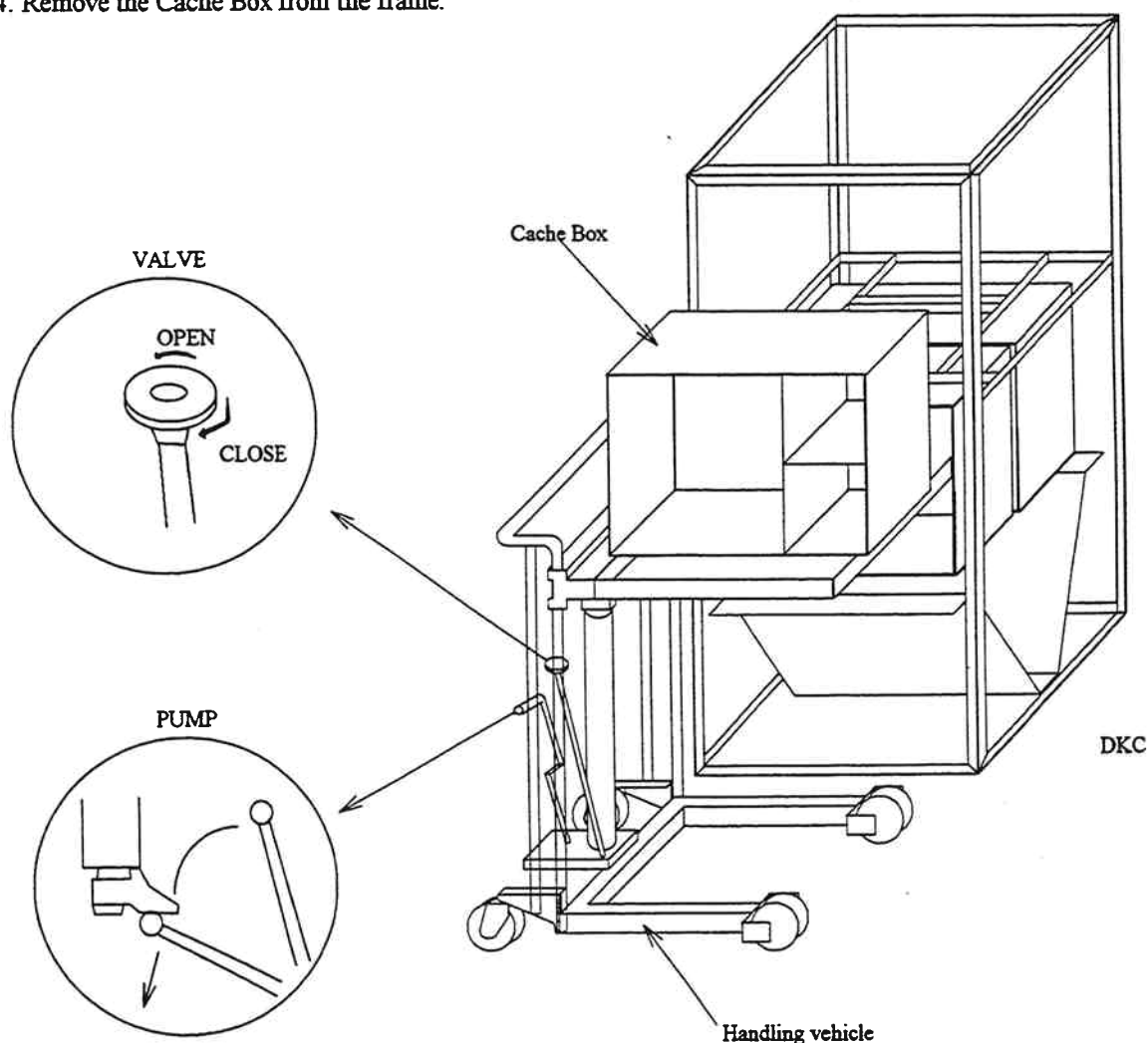


Fig. 3.3.7.8-1 Handling vehicle

3.3.7.9 Installation of Additional Cache Memory (DKC-F210I-64)

3.3.7.9.1 Parts List

Table 3.3.7.9.1-1 Parts List

No.	Model Number	Parts Name	Parts No.	Quantity	Remarks
1	DKC-F210I-64	SZ730-A	2099864-A	8	Cache Memory Module(8MB)

3.3.7.9.2 Installation Procedure of Additional Cache Memory

Be sure to wear your wrist strap and attach to ground prior to performing the following work. This will insure that the IC and LSI on the PCB are protected from static electricity.

1. Remove the PCBs.

- a. While referring to Fig. 3.3.7.9.2-1 and Table 3.3.7.9.2-1, check the Shut Down LED on the Cache Memory PCB in the Logic Box. See "Connection of Shut Down Jumper (INST03-2600)" if the Shut Down LED is not on. (This procedure [1. a.] is not valid for a New Installation.)

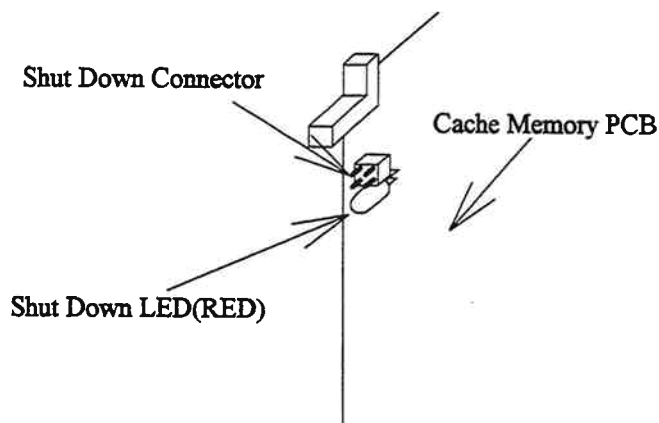


Fig. 3.3.7.9.2-1 Location of the Shut Down LED

Table 3.3.7.9.2-1 Location of the Cache Memory PCB

Cluster	PCB Name	Box	Slot No.	Location No.	Remarks
1	WP018-C	Logic Box	C	CACHE-1C	Cache Memory PCB
2	WP018-C	Logic Box	T	CACHE-2T	Cache Memory PCB

- b. Remove the two screws and remove the Cache Memory PCB.

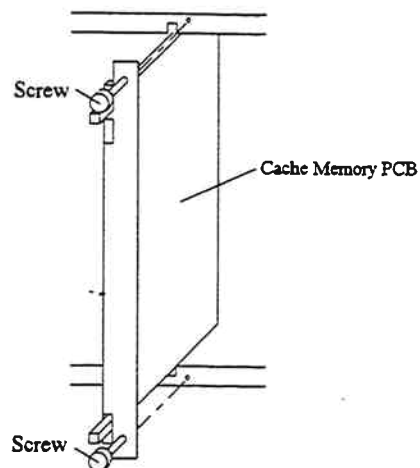


Fig. 3.3.7.9.2-2 Removal of the Cache Memory PCB

- c. Remove the Shut Down Jumper if it is mounted.

2. Insert the Cache Memory Modules.

- a. Insert the Cache Memory Modules that match the required Cache Memory capacity referring to Fig. 3.3.7.9.2-3 and Table 3.3.7.9.2-2.

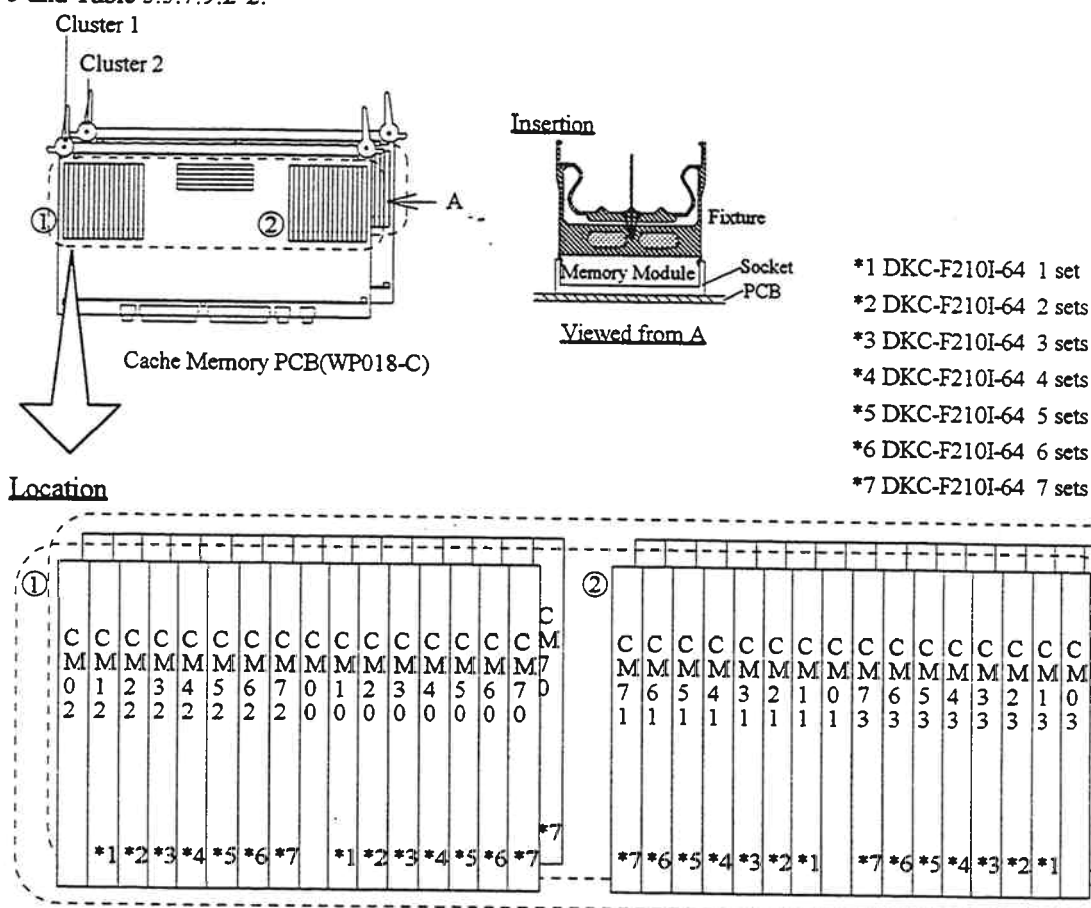


Fig. 3.3.7.9.2-3 Inserting Location of the Cache Memory Module

Table 3.3.7.9.2-2 Number of CMs and Corresponding Cache Memory Capacity

No.	Cache Memory capacity		Model No.	Cluster 1		Cluster 2	
	From	To		Part name	Quantity	Part name	Quantity
1	64MB	128MB	DKC-F210I-64 1 set	Cache Memory Module	4	Cache Memory Module	4
2	128MB	192MB	DKC-F210I-64 2 sets	Cache Memory Module	4	Cache Memory Module	4
3	192MB	256MB	DKC-F210I-64 3 sets	Cache Memory Module	4	Cache Memory Module	4
4	256MB	320MB	DKC-F210I-64 4 sets	Cache Memory Module	4	Cache Memory Module	4
5	320MB	384MB	DKC-F210I-64 5 sets	Cache Memory Module	4	Cache Memory Module	4
6	384MB	448MB	DKC-F210I-64 6 sets	Cache Memory Module	4	Cache Memory Module	4
7	448MB	512MB	DKC-F210I-64 7 sets	Cache Memory Module	4	Cache Memory Module	4

3. Insert the PCBs.

- a. Insert the Cache Memory PCB referring to Table 3.3.7.9.2-3 or Table 3.3.7.9.2-4.
- b. Fasten the two screws.

Table 3.3.7.9.2-3 Location of the Cache Memory PCB (DKC-F210I-40 not installed)

Cluster	PCB Name	Box	Slot No.	Location No.	Remarks
1	WP018-C	Logic Box	C	CACHE-1C	Cache Memory PCB
2	WP018-C	Logic Box	T	CACHE-2T	Cache Memory PCB

Table 3.3.7.9.2-4 Location of the Cache Memory PCB (DKC-F210I-40 installed)

Cluster	PCB Name	Box	Slot No.	Location No.	Remarks
1	WP018-C	Cache Box-1	D	CACHE-C1D	Cache Memory PCB
2	WP018-C	Cache Box-2	D	CACHE-C2D	Cache Memory PCB

4. Change the nameplate.

- a. Refer to Fig. 3.3.7.9.2-4 and Table 3.3.7.9.2-5 to paint out unnecessary numbers and wipe off a necessary number painted previously so that the "Qt." marking for the corresponding DKC-F210I-64 can be seen.

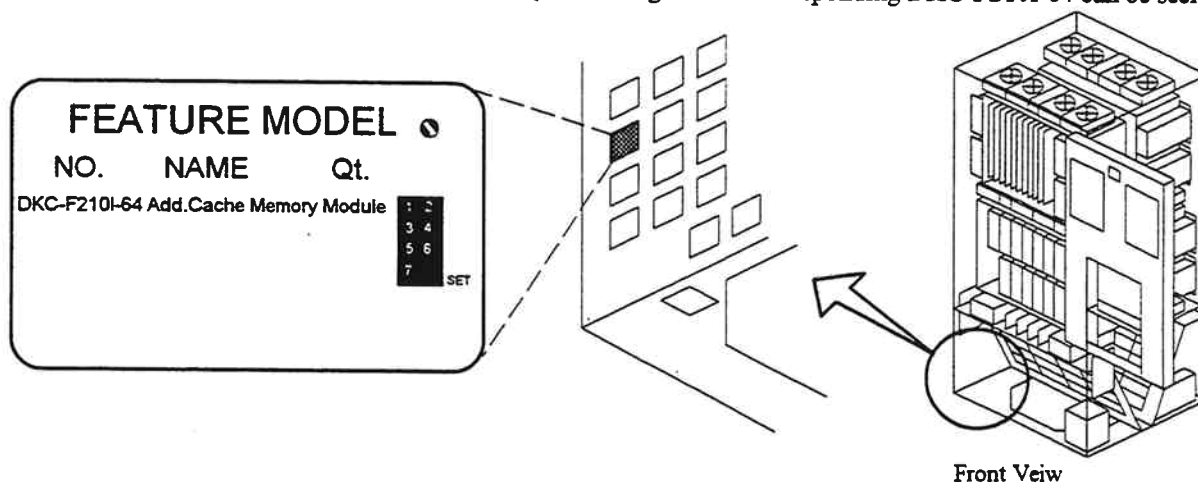


Fig. 3.3.7.9.2-4 Location of the Nameplate

Table 3.3.7.9.2-5 Quantity Marking

No.	Cache Memory Capacity	Quantity Marking	
		Number of DKC-F210I-64 sets	Qt.
1	128MB	1 set	1
2	192MB	2 sets	2

(To be continued)

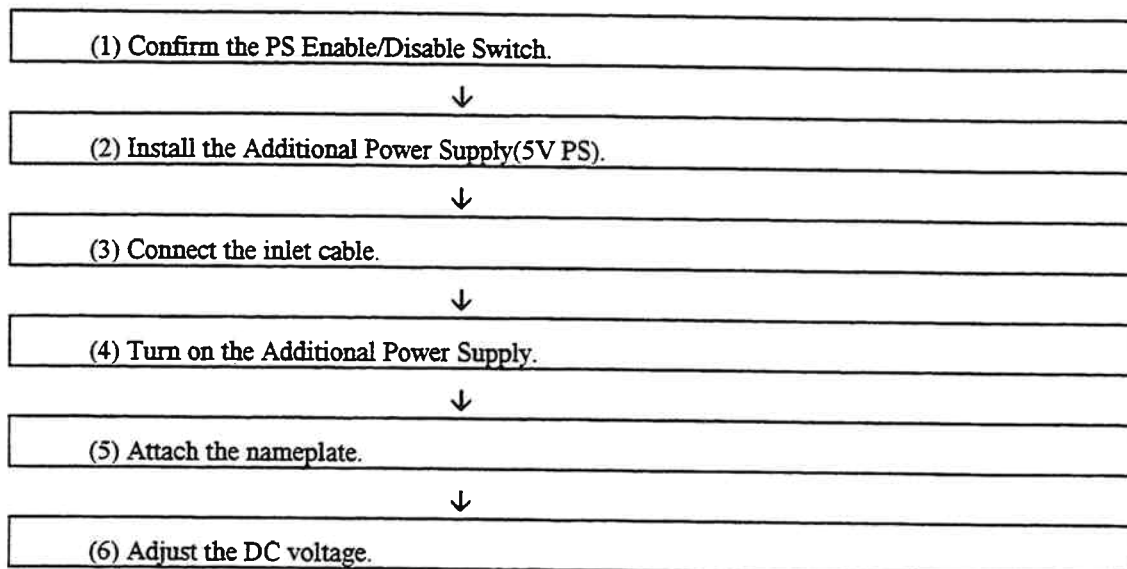
(Continued from the preceding page)

No.	Cache Memory Capacity	Quantity Marking	
		Number of DKC-F210I-64 sets	Qt.
3	256MB	3 sets	3
4	320MB	4 sets	4
5	384MB	5 sets	5
6	448MB	6 sets	6
7	512MB or more	7 sets	7

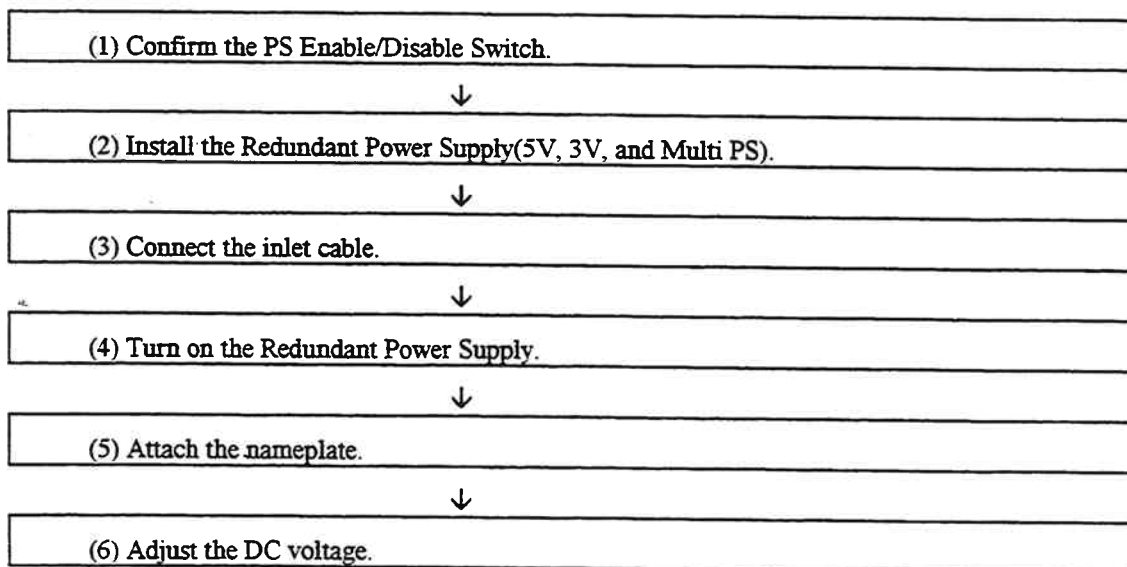
3.3.8 Installation of Redundant Power Supply

3.3.8.1 Flowchart

3.3.8.1.1 Installation of the DKC Additional Power Supply(DKC-F210I-70).....[INST03-1710]



3.3.8.1.2 Installation of the CL Redundant Power Supply(DKC-F210I-71).....[INST03-1750]



3.3.8.1.3 Installation of the Cache Redundant Power Supply(DKC-F210I-72).....[INST03-1790]

(1) Confirm the PS Enable/Disable Switch.



(2) Install the Redundant Power Supply(5V and 3V PS).



(3) Connect the Inlet cable.



(4) Turn on the Redundant Power Supply.



(5) Attach the nameplate.



(6) Adjust the DC voltage.

3.3.8.2 Installation of the DKC Additional Power Supply(DKC-F210I-70)

3.3.8.2.1 Parts List

Table 3.3.8.2.1-1 Parts List for the DKC Additional Power Supply

No.	Model Number	Part Name	Part No.	Quantity	Remarks
1	DKC-F210I-70	5V power supply	5479609-A/5479654-A	2	
		Nameplate	3243351-1	1	

3.3.8.2.2 Installation Procedure of the DKC Additional Power Supply

1. Confirmation of the PS Enable/Disable Switch

- a. Confirm the PS Enable/Disable Switch is turned to(DOWN) **Disable**. Refer to Fig. 3.3.8.2.2-1.

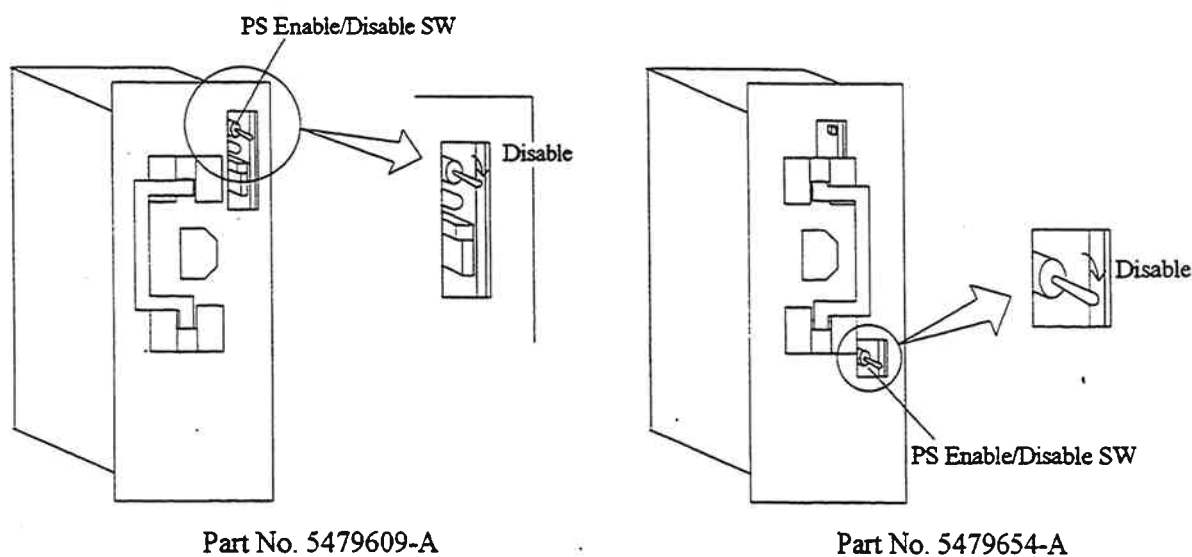


Fig. 3.3.8.2.2-1 Switch

2. Installation of the additional power supply

- Loosen the two screws① and remove the support. Refer to Fig. 3.3.8.2.2-3.
- Loosen the screws② and remove the dummy plates from the inserting locations. Refer to Table 3.3.8.2.2-1, Fig. 3.3.8.2.2-2, and Fig. 3.3.8.2.2-3.
- Install the additional power supplies in the correct locations and fasten the screws②. Refer to Table 3.3.8.2.2-1, Fig. 3.3.8.2.2-2, and Fig. 3.3.8.2.2-4.
- Attach the support and fasten the screws①.

Note: Dummy plates should be stored for future use in De-installation.

Table 3.3.8.2.2-1 Inserting Location

No.	Part Name	Part No.	PS Location		Remarks
			Cluster 1	Cluster 2	
1	5V power supply	5479609-A/5479654-A	5VPS11	5VPS21	

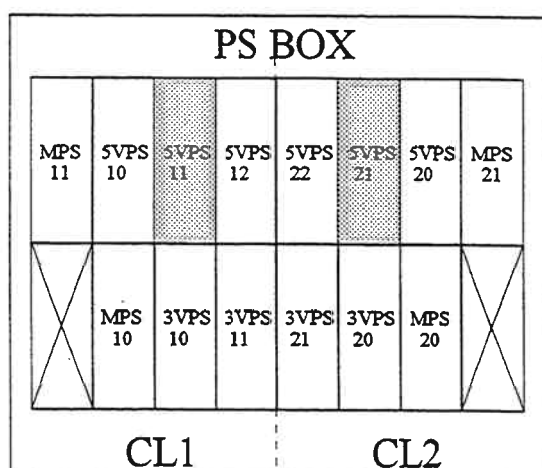


Fig. 3.3.8.2.2-2 Inserting Location

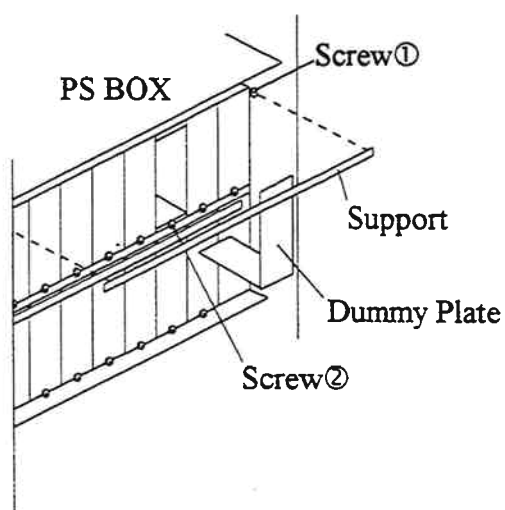


Fig. 3.3.8.2.2-3 Removal of Dummy Plate

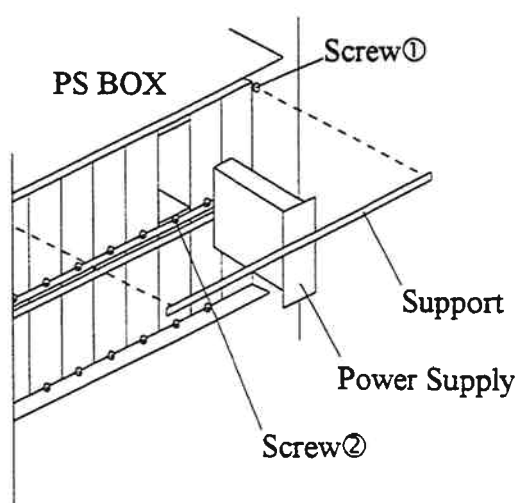


Fig. 3.3.8.2.2-4 Installation of Power Supply

3. Connection of the inlet cable

- a. Connect the inlet cables to the power supply. Refer to Fig. 3.3.8.2.2-5.

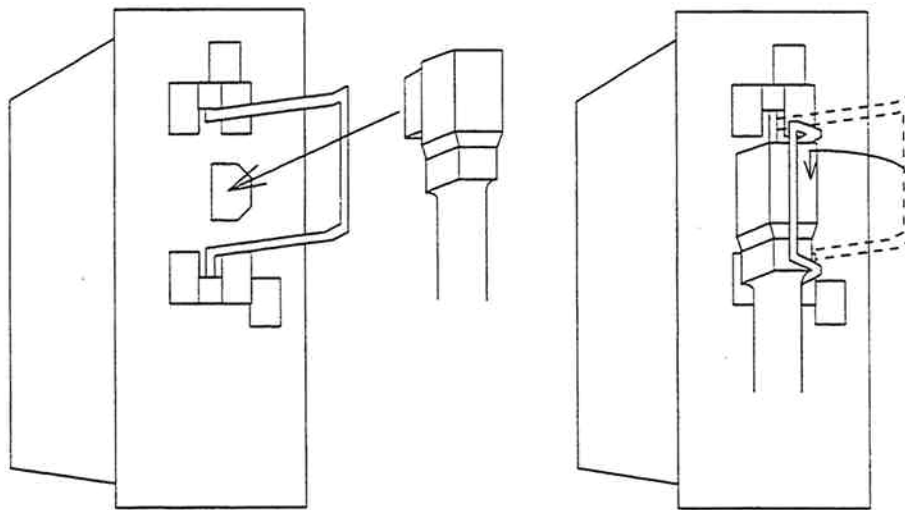
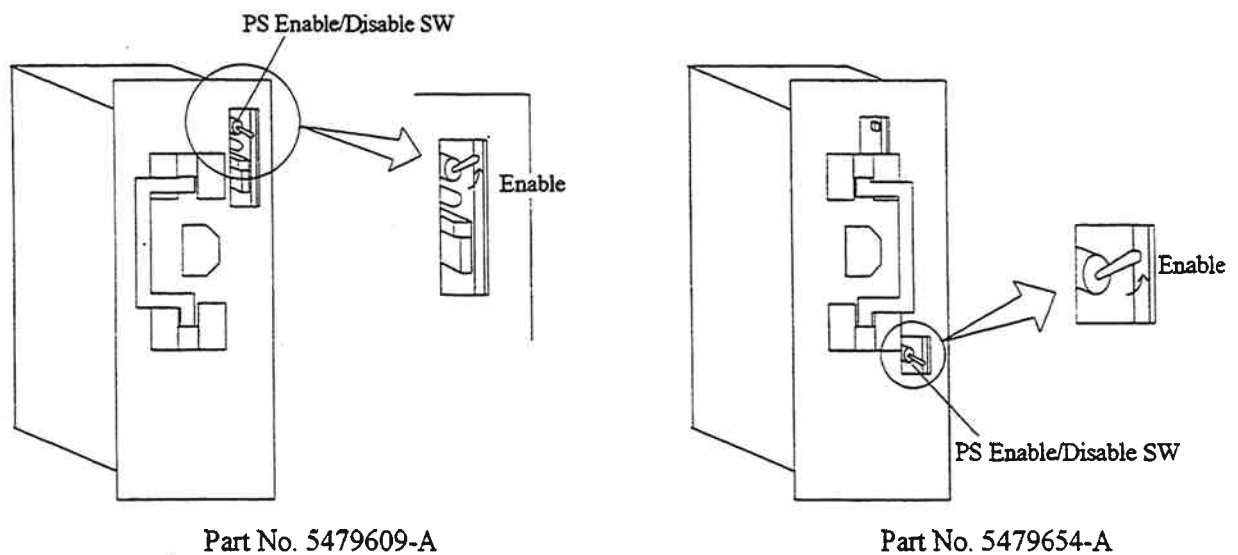


Fig. 3.3.8.2.2-5 Connection of Inlet Cable

4. Turn on the Additional Power Supply

- a. Turn the PS Enable/Disable Switch to (UP) Enable. Refer to Fig. 3.3.8.2.2-6.



Part No. 5479609-A

Part No. 5479654-A

Fig. 3.3.8.2.2-6 Switch

5. Attachment of the nameplate

- a. Attach the nameplate of DKC-F210I-70 referring to Fig. 3.3.8.2.2-7.

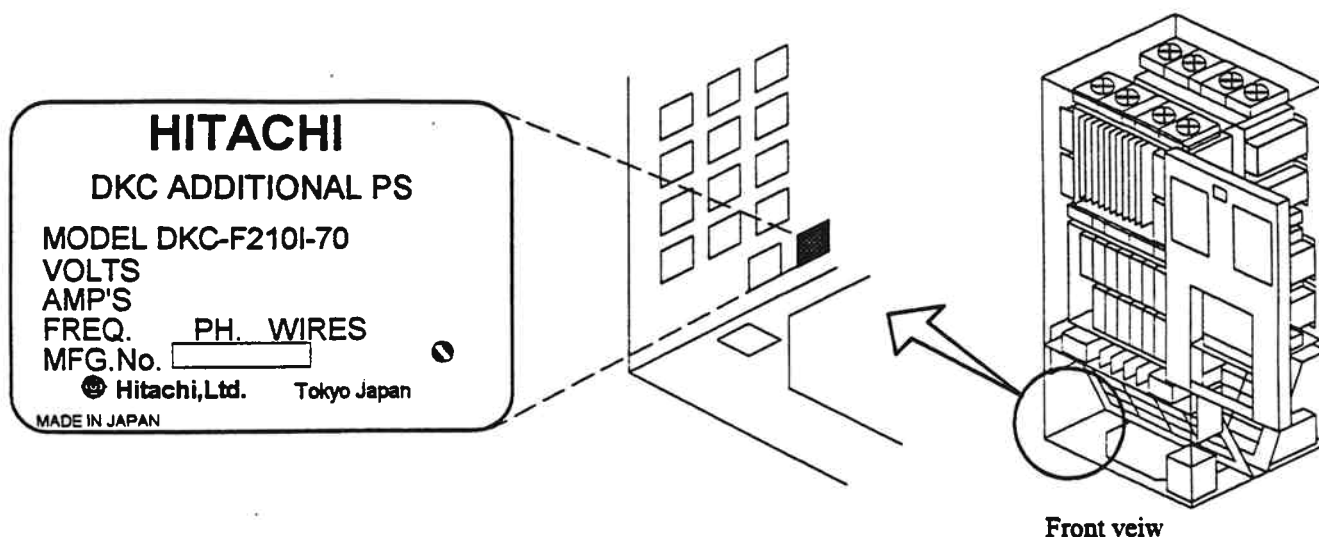


Fig. 3.3.8.2.2-7 Attachment of Nameplate

6. DC voltage adjustment

- a. See CHECK OF DC VOLTAGE in PERIODIC SECTION. [PERIODIC02-10 through 30]

7. Return to General Flow.

New Installation: Go to INST02-10 Step (7). But if CL Redundant Power Supply must be installed, perform INST03-1750 through 1780.

Non-disruptive Installation: Go to INST02-20A Step (3)-3. But if CL Redundant Power Supply must be installed, perform INST03-1750 through 1780.

Disruptive Installation: Go to INST02-40 Step (6). But if CL Redundant Power Supply must be installed, perform INST03-1750 through 1780.

3.3.8.3 Installation of the CL Redundant Power Supply (DKC-F210I-71)

3.3.8.3.1 Parts List

Table 3.3.8.3.1-1 Parts List for the CL Redundant Power Supply

No.	Model Number	Part Name	Part No.	Quantity	Remarks
1	DKC-F210I-71	5V power supply	5479609-D/5479654-D	2	
		3V power supply	5479609-B/5479654-B	2	
		Multi power supply	5479609-C/5479654-C /ED5479653-1	2	
		Nameplate	3243352-1	1	

3.3.8.3.2 Installation Procedure of the CL Redundant Power Supply

1. Confirmation of the PS Enable/Disable Switch

- a. Confirm the PS Enable/Disable Switch is turned to (DOWN) Disable. Refer to Fig. 3.3.8.3.2-1.

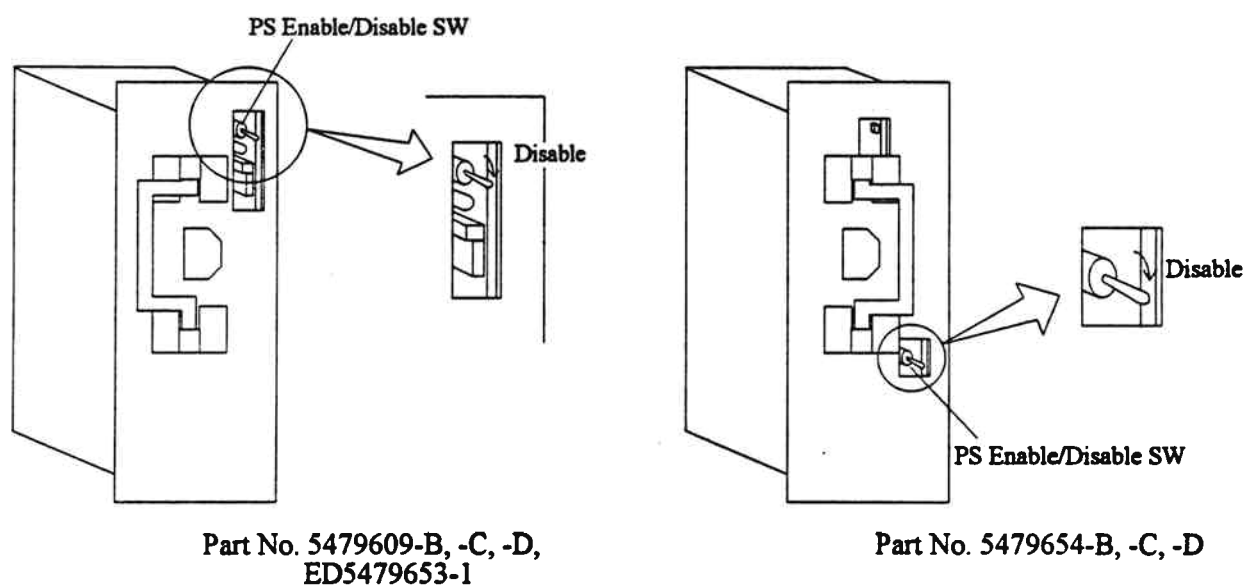


Fig. 3.3.8.3.2-1 Switch

2. Installation of the redundant power supply

- Loosen the four screws① and remove the two supports. Refer to Fig. 3.3.8.3.2-3.
- Loosen the screws② and remove the dummy plates from the inserting locations. Refer to Table 3.3.8.3.2-1, Fig. 3.3.8.3.2-2, and Fig. 3.3.8.3.2-3.
- Install the redundant power supplies in the correct locations and fasten the screws②. Refer to Table 3.3.8.3.2-1, Fig. 3.3.8.3.2-2, and Fig. 3.3.8.3.2-4.
- Attach the supports and fasten the screws①.

Note: Dummy plates should be stored for future use in De-installation.

Table 3.3.8.3.2-1 Inserting Location

No.	Part Name	Part No.	PS Location		Remarks
			Cluster 1	Cluster 2	
1	5V power supply	5479609-D/5479654-D	5VPS12	5VPS22	
2	3V power supply	5479609-B/5479654-B	3VPS11	3VPS21	
3	Multi power supply	5479609-C/5479654-C /ED5479653-1	MPS11	MPS21	

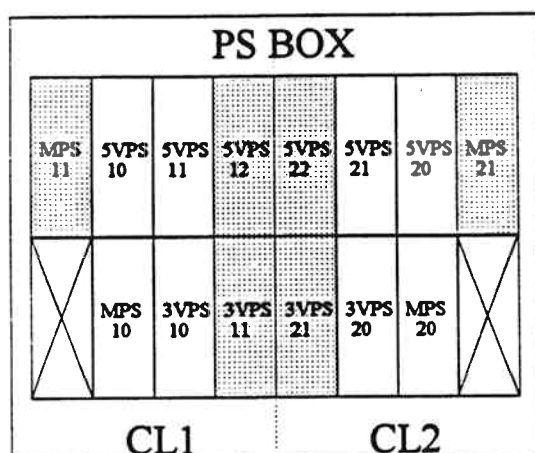


Fig. 3.3.8.3.2-2 Inserting Location

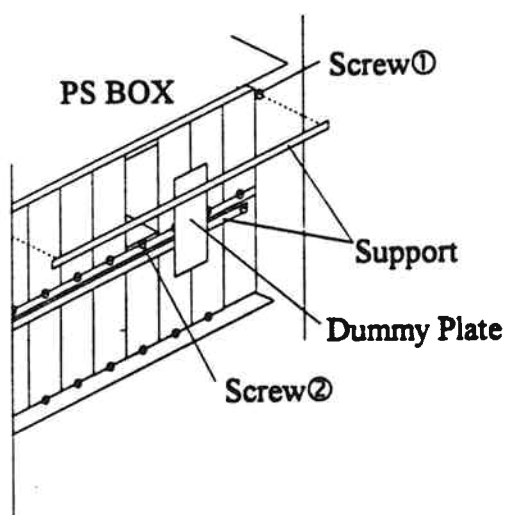


Fig. 3.3.8.3.2-3 Removal of Dummy Plate

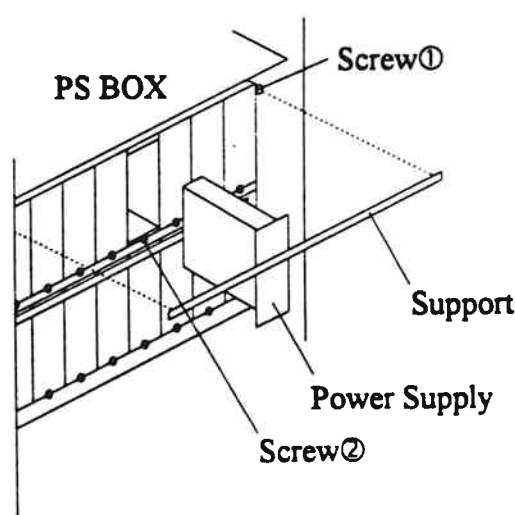


Fig. 3.3.8.3.2-4 Installation of Power Supply

3. Connection of the inlet cable

- a. Connect the inlet cables to the power supply. Refer to Fig. 3.3.8.3.2-5.

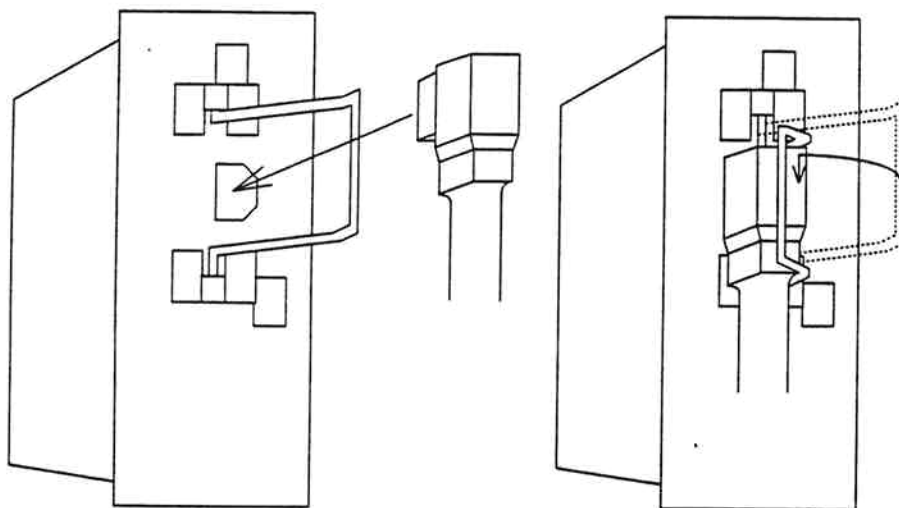
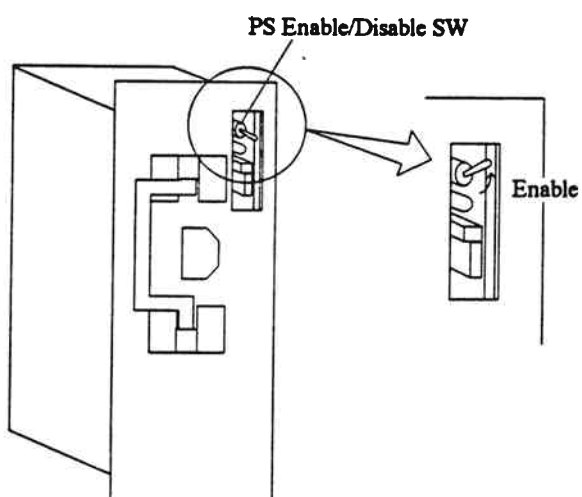


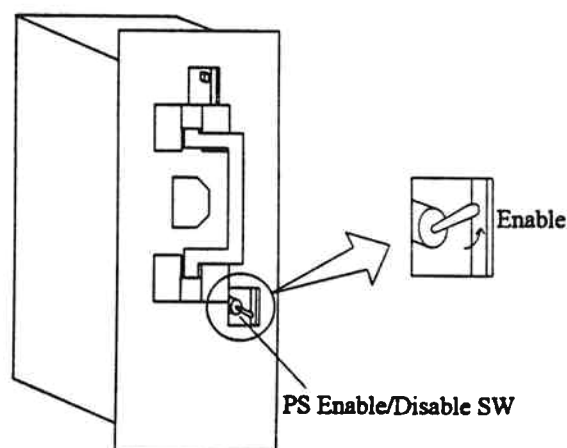
Fig. 3.3.8.3.2-5 Connection of Inlet Cable

4. Turn on the Redundant Power Supply

- a. Turn the PS Enable/Disable Switch to (UP) Enable. Refer to Fig. 3.3.8.3.2-6.



Part No. 5479609-B, -C, -D,
ED5479653-1



Part No. 5479654-B, -C, -D

Fig. 3.3.8.3.2-6 Switch

5. Attachment of the nameplate

- a. Attach the nameplate of DKC-F210I-71 referring to Fig. 3.3.8.3.2-7.

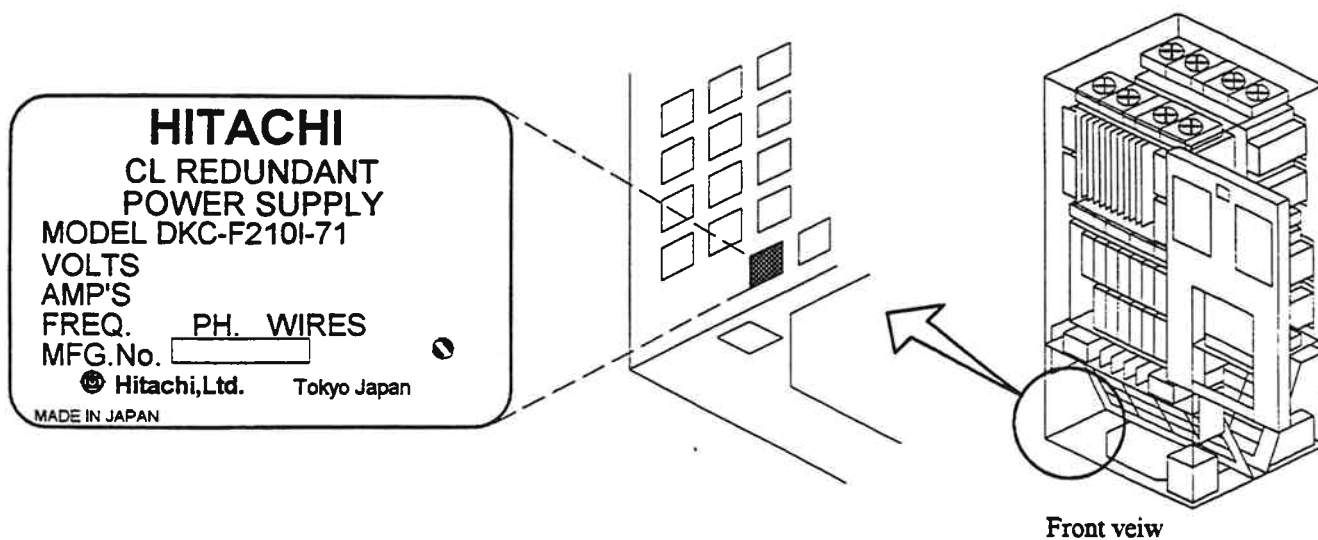


Fig. 3.3.8.3.2-7 Attachment of Nameplate

6. DC voltage adjustment

- a. See CHECK OF DC VOLTAGE in PERIODIC SECTION.[PERIODIC02-10 through 30]

7. Return to General Flow.

New Installation: Go to INST02-10 Step (7).

Non-disruptive Installation: Go to INST02-20A Step (3)-3.

Disruptive Installation: Go to INST02-40 Step (6).

3.3.8.4 Installation of the Cache Redundant Power Supply (DKC-F210I-72)

3.3.8.4.1 Parts List

Table 3.3.8.4.1-1 Parts List for Cache Redundant Power Supply

No.	Model Number	Part Name	Part No.	Quantity	Remarks
1	DKC-F210I-72	5V power supply	5479609-A/5479654-A	2	
		3V power supply	5479609-B/5479654-B	2	
		Nameplate	3243354-1	1	

3.3.8.4.2 Installation Procedure of the Cache Redundant Power Supply

1. Confirmation of the PS Enable/Disable Switch

- a. Confirm the PS Enable/Disable Switch is turned to (DOWN) Disable. Refer to Fig. 3.3.8.4.2-1.

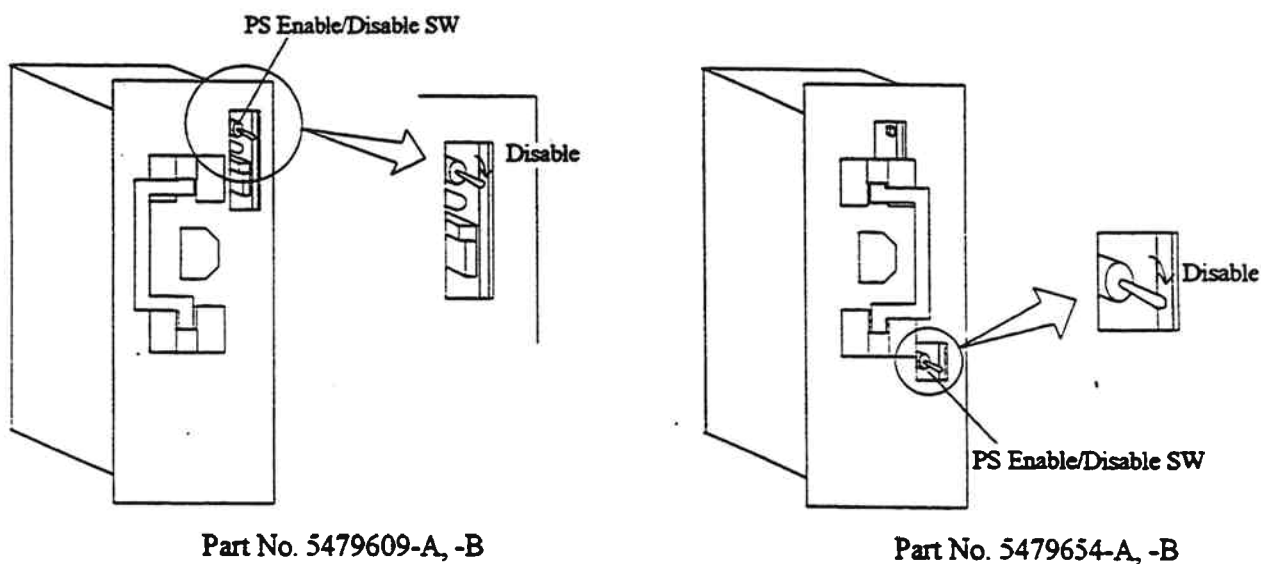


Fig. 3.3.8.4.2-1 Switch

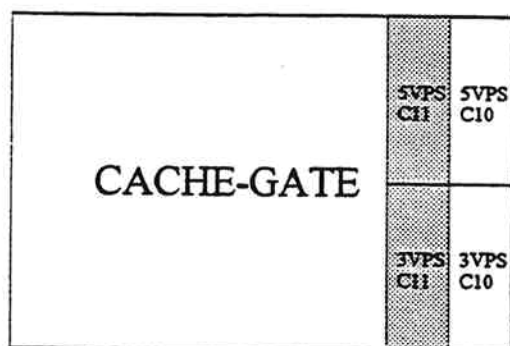
2. Installation of the redundant power supply

- Loosen the screws and remove the dummy plates. Refer to Table 3.3.8.4.2-1, Fig. 3.3.8.4.2-2, and Fig. 3.3.8.4.2-3.
- Install the redundant power supplies in the correct locations. Refer to Table 3.3.8.4.2-1, Fig. 3.3.8.4.2-2, and Fig. 3.3.8.4.2-4.

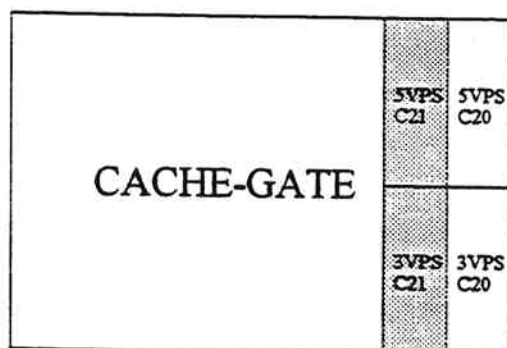
Note: Dummy plates should be stored for future use in De-installation.

Table 3.3.8.4.2-1 Inserting Location

No.	Part Name	Part No.	PS Location		Remarks
			Cluster 1	Cluster 2	
1	5V power supply	5479609-A/5479654-A	5VPSC11	5VPSC21	
2	3V power supply	5479609-B/5479654-B	3VPSC11	3VPSC21	

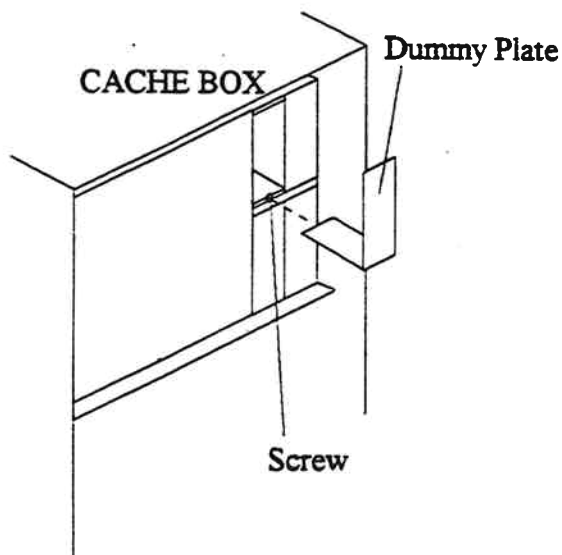


Front View of Disk Controller



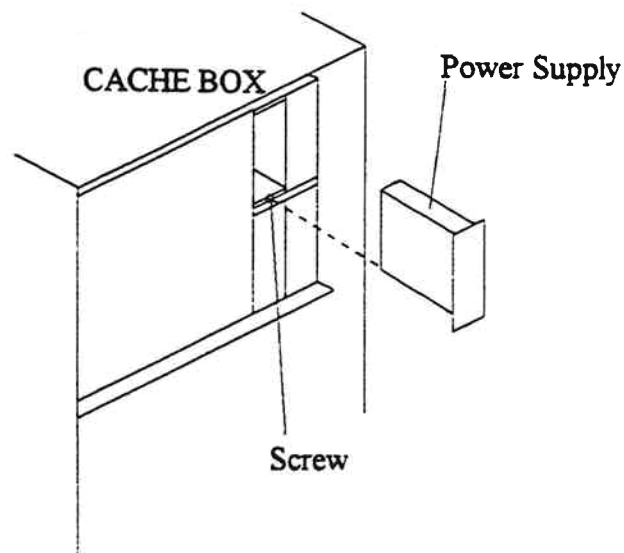
Rear View of Disk Controller

Fig. 3.3.8.4.2-2 Inserting Location



Front or Rear View of Disk Controller

Fig. 3.3.8.4.2-3 Removal of Dummy Plate



Front or Rear View of Disk Controller

Fig. 3.3.8.4.2-4 Installation of Power Supply

3. Connection of the inlet cable

- a. Connect the inlet cables to the power supply. Refer to Fig. 3.3.8.4.2-5.

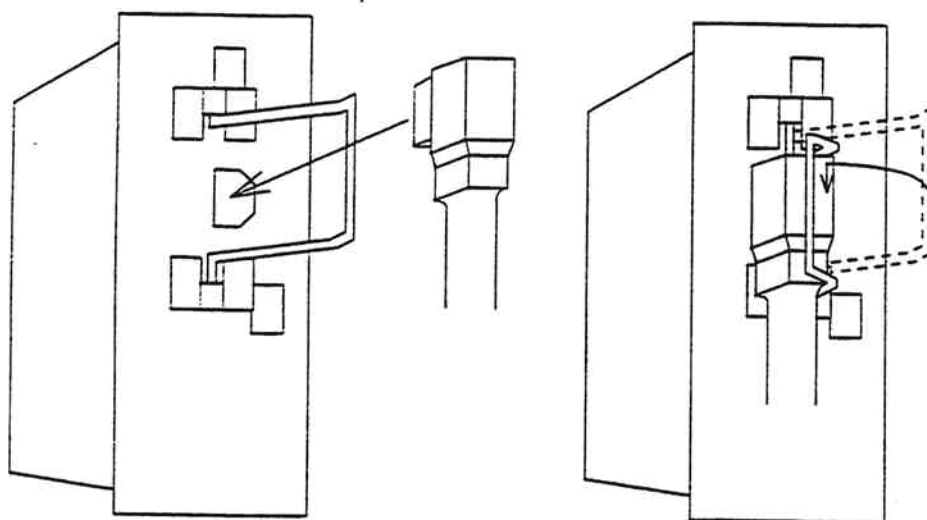
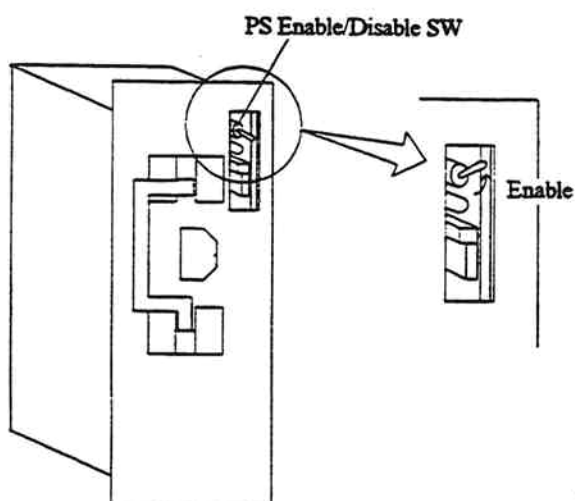


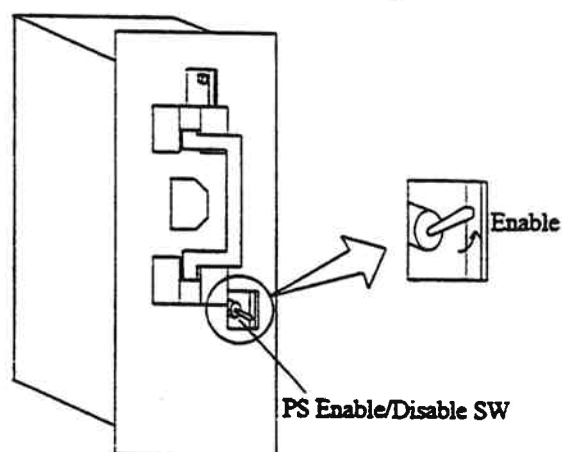
Fig. 3.3.8.4.2-5 Connection of Inlet cable

4. Turn on the Redundant Power Supply

- a. Turn the PS Enable/Disable Switch to (UP) Enable. Refer to Fig. 3.3.8.4.2-6.



Part No. 5479609-A, -B



Part No. 5479654-A, -B

Fig. 3.3.8.4.2-6 Switch

5. Attachment of the nameplate

- a. Attach the nameplate of DKC-F210I-72 referring to Fig. 3.3.8.4.2-7.

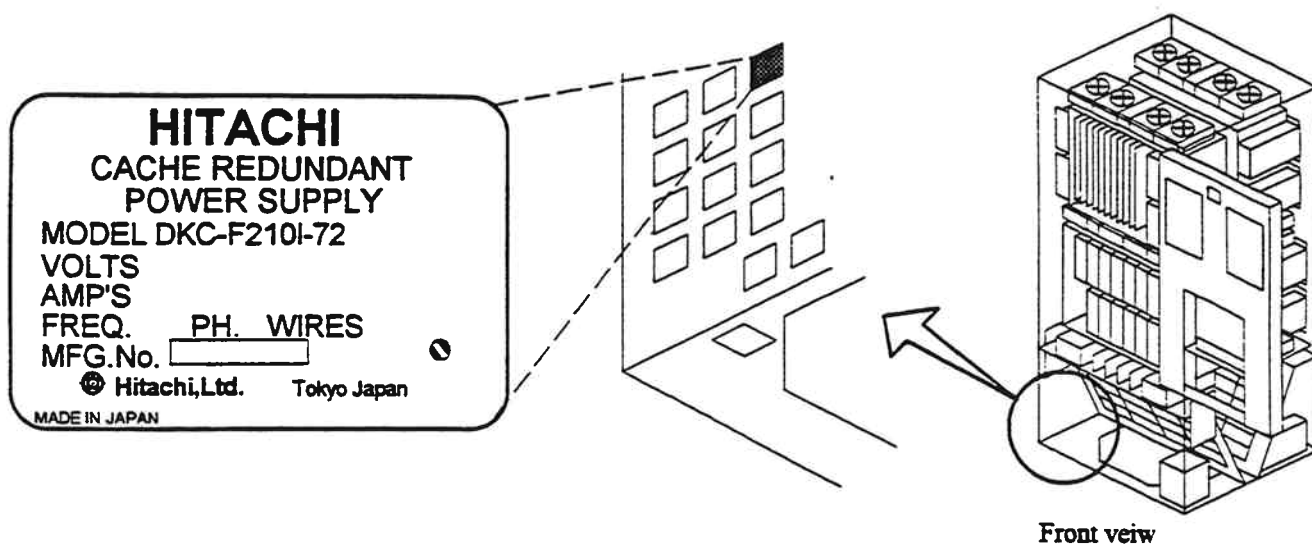


Fig. 3.3.8.4.2-7 Attachment of Nameplate

6. DC voltage adjustment

- a. See CHECK OF DC VOLTAGE in PERIODIC SECTION.[PERIODIC02-10 through 30]

7. Return to General Flow.

New Installation: Go to INST02-10 Step (5).

Non-disruptive Installation: Go to INST02-21 Step (7).

Disruptive Installation: Go to INST02-40 Step (5).

3.3.9 Installation of the Platform for Canister Mount (DKU-F205I-B4)

3.3.9.1 Flowchart

The procedure for expanding the platform for the canister mount is shown below.

(1) Confirmation of installation position of platform for the canister mount.	[INST03-1840]
↓	
(2) Removal of the acrylic cover, SCSI BFR PCB, multi power supply, and partition plate.	[INST03-1840]
↓	
(3) Removal of the side plate.	[INST03-1860]
↓	
(4) Installation of the HDU box.	[INST03-1870]
↓	
(5) Connection of the DKUMN cable.	[INST03-1880]
↓	
(6) Address setting of the HDU box.	[INST03-1890]
↓	
(7) Attachment of the acrylic cover, SCSI BFR PCB, multi power supply, and partition plate.	[INST03-1890]
↓	
(8) Attachment of the side plate.	[INST03-1890]
↓	
(9) Connection of the INLET cable.	[INST03-1900]
↓	
(10) Attachment of the nameplate and label (REV).	[INST03-1910]
↓	
(11) Setting of the PS enable switch on the multi power supply.	[INST03-1920]
↓	
(12) Installation of the Jumper plug in the DKUMN PCB.	[INST03-1940]

3.3.9.2 Parts List

Table 3.3.9.2-1 Parts List for Platform for Canister Mount

No.	Model Number	Part Name	Part No.	Quantity	Remarks
1	DKU-F205I-B4	HDU Box	1503382-A	4	
		Multi Power Supply (HS300-04C-P / HS300-04C-V)	5487059-A	8	
		SCSI BFR PCB	5487056-A	8	
		DKU FAN Assembly	5487062-A	12	
		Nameplate E (DKU-F205I)	2099650-1	1	
		Label (REV)	3239458-1	1	

3.3.9.3 Installation Procedure of the Platform for Canister Mount

1. Refer to Chapter 3.1.2 DKC210L/DKU205I Subsystem Frame Configuration (INST01-50). Confirm a position to install platform for the canister mount.
2. Removal of the acrylic cover, SCSI BFR PCB, multi power supply, and partition plate.
 - a. In case of acrylic cover of old type. Loosen screws ① and remove the acrylic cover ②.

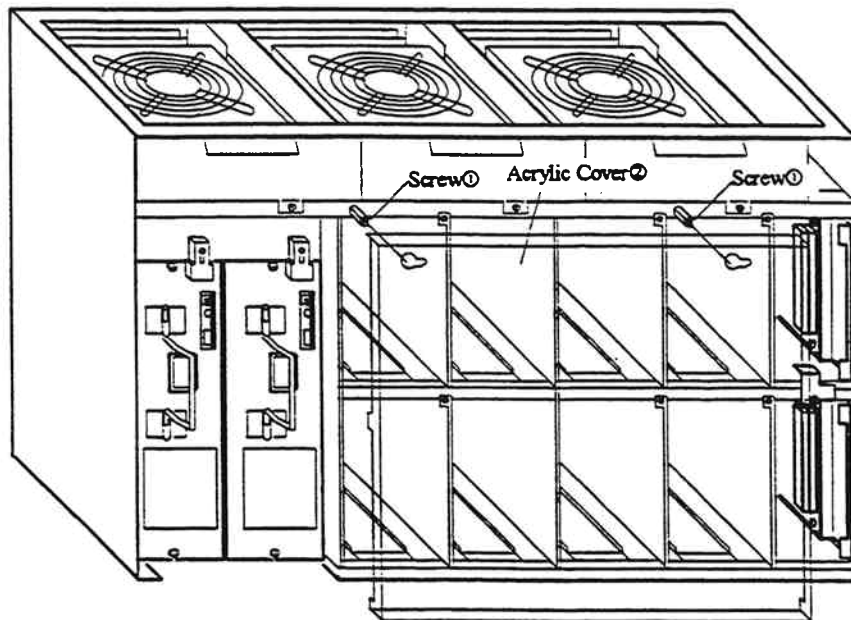


Fig. 3.3.9.3-1 Removal of the Acrylic Cover

- b. In case of acrylic cover of new type. Remove the acrylic cover ①.

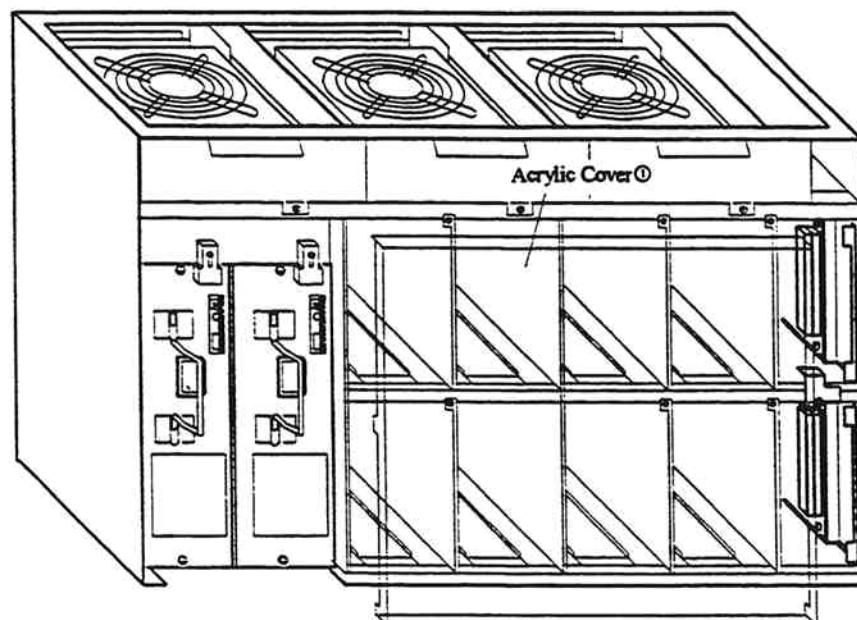


Fig. 3.3.9.3-2 Removal of the Acrylic Cover

- c. Loosen screw ① on stopper ② securing the SCSI BFR PCB ③ in the HDU box to be installed, slide stopper ② to the left, and pull out the SCSI BFR PCB ③.

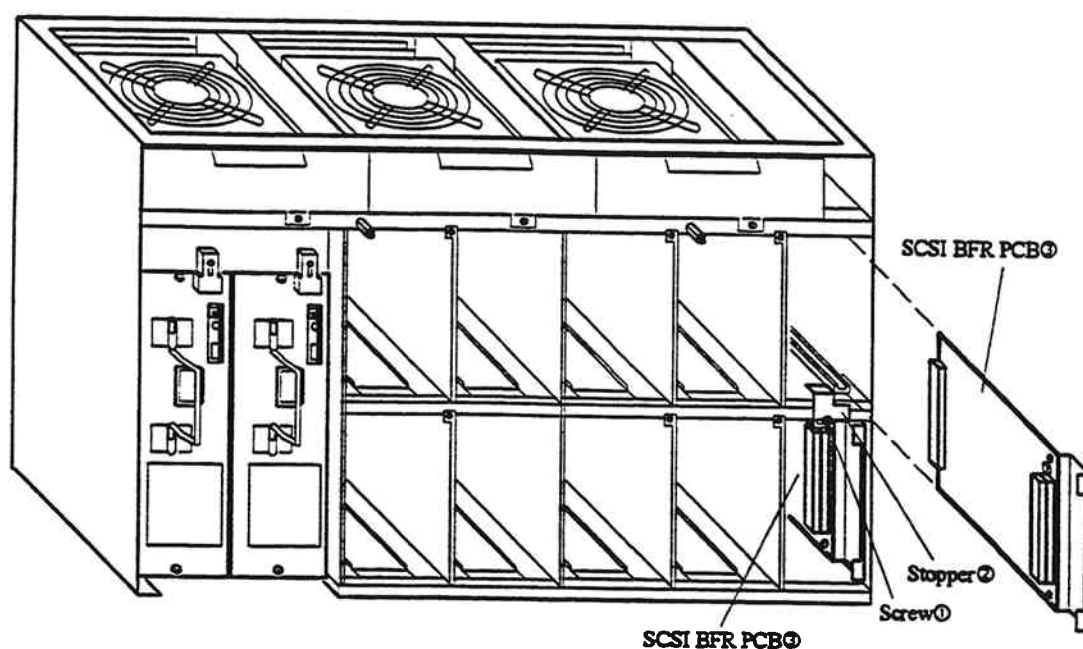


Fig. 3.3.9.3-3 Removal of the SCSI BFR PCB

- d. Remove screws ① securing the multi power supply ② in the HDU box to be installed, loosen screws ③ and flip up the buffering rubbers ④, and pull out the multi power supply ②.

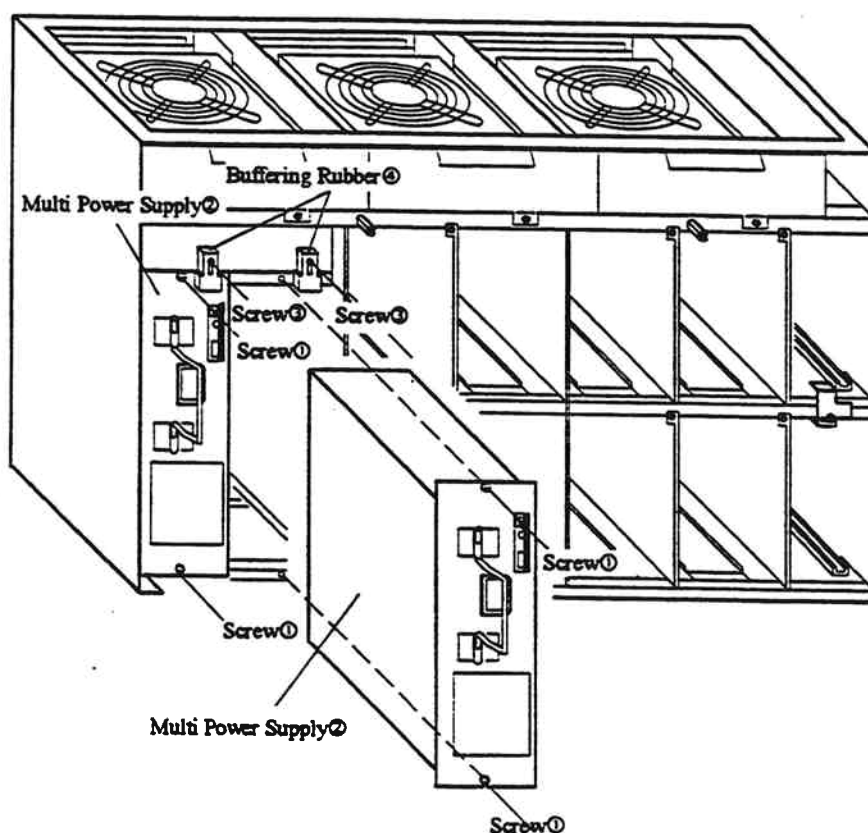


Fig. 3.3.9.3-4 Removal of the Multi Power Supply

- e. Remove screws ① and pull out the partition plates ②.

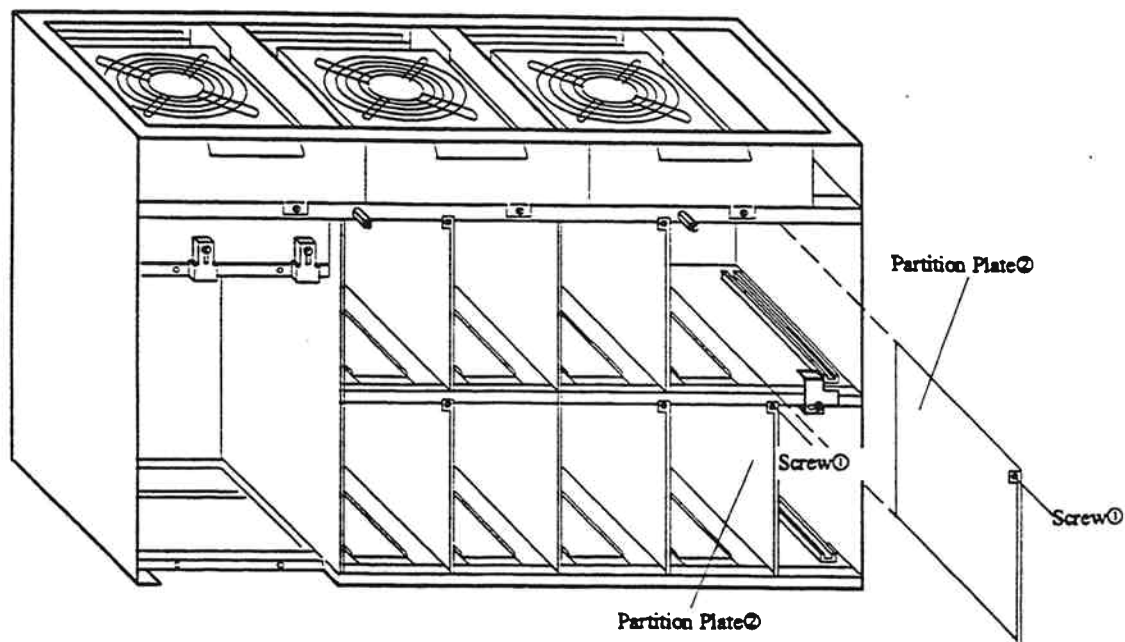


Fig. 3.3.9.3-5 Removal of the Partition Plate

3. Removal of the side plate.

- Loosen screws ① and raise DKUMN PCBs ② and secure DKUMN PCBs ② with screws ③.
- Remove screws ④ and side plates ⑤.
- Loosen screws ⑥ and raise cable ducts ⑦ when installing a new HDU box.

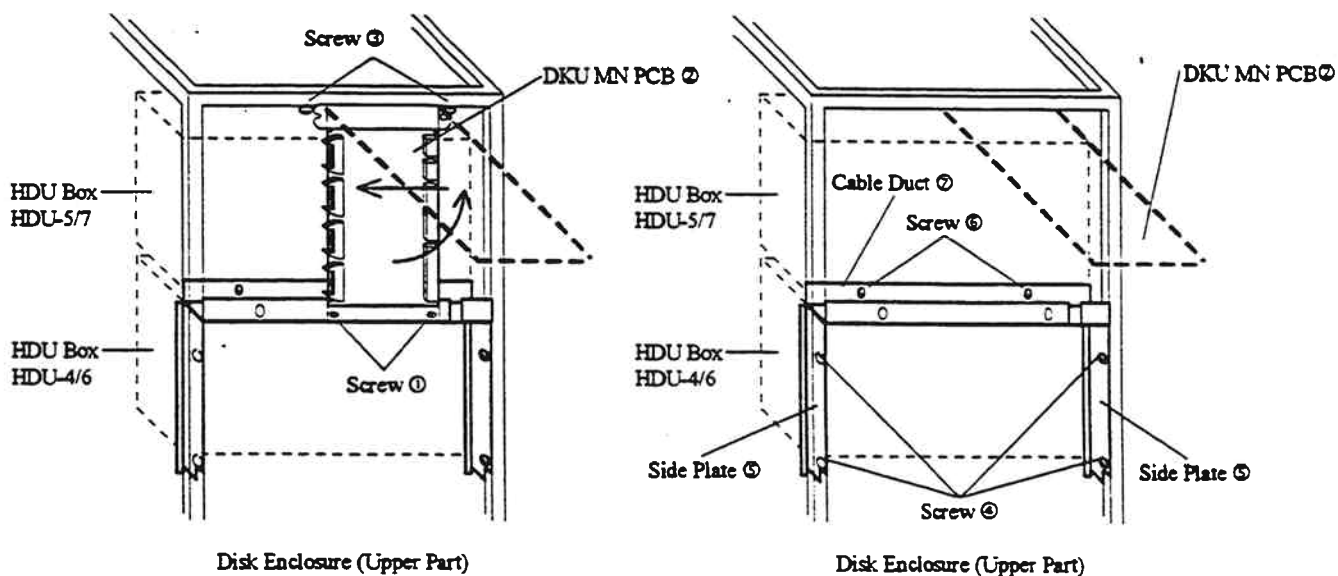


Fig. 3.3.9.3-6 Removal of the Side Plate

4. Installation of the HDU Box.

- a. Install the HDU box on the disk unit and secure it with screws ① and plastic washers ②.

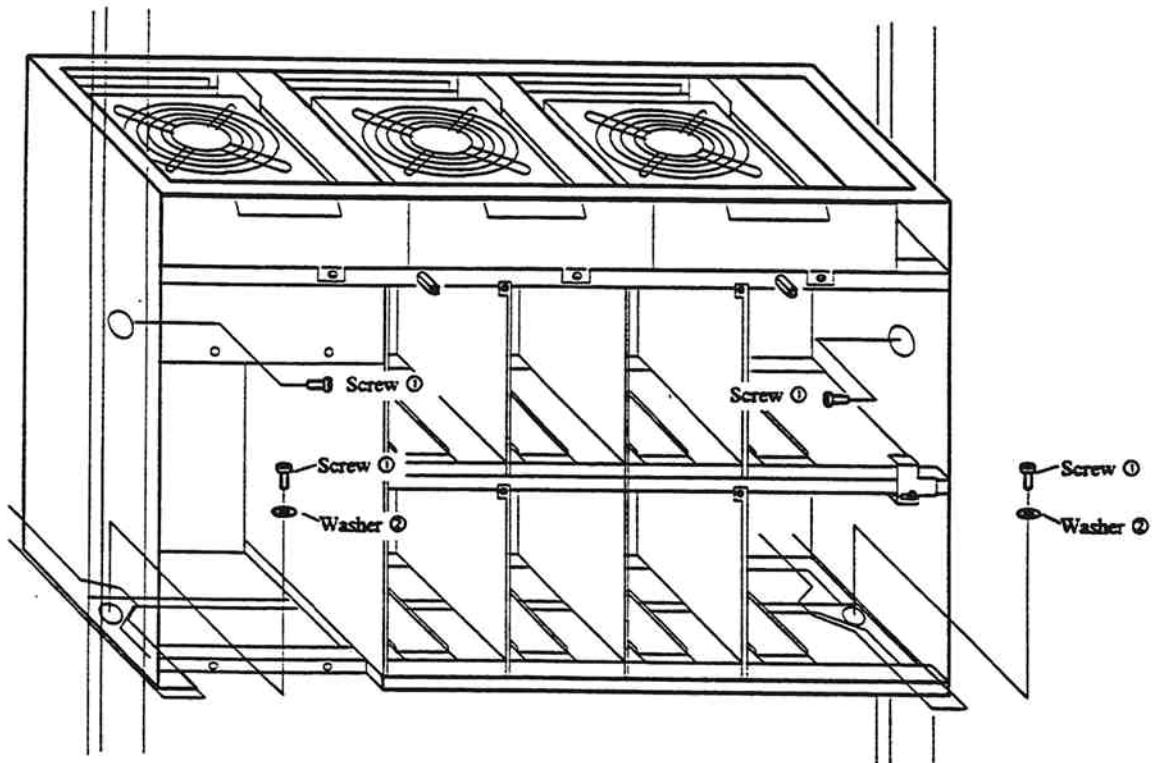


Fig. 3.3.9.3-7 Installation of the HDU Box

5. Connection of the DKUMN cable.

a. Connect the DKUMN cables ① referring to Table 3.3.9.3-1 and Fig. 3.3.9.3-8.

Table 3.3.9.3-1 DKUMN Cables and Matching Connectors

Location of HDU Box	No.	DKUMN Cable ①	Connector
XX4	1	4-P301	4-J301
	2	4-P302	4-J302
XX5	1	5-P301	5-J301
	2	5-P302	5-J302
XX6	1	6-P301	6-J301
	2	6-P302	6-J302
XX7	1	7-P301	7-J301
	2	7-P302	7-J302

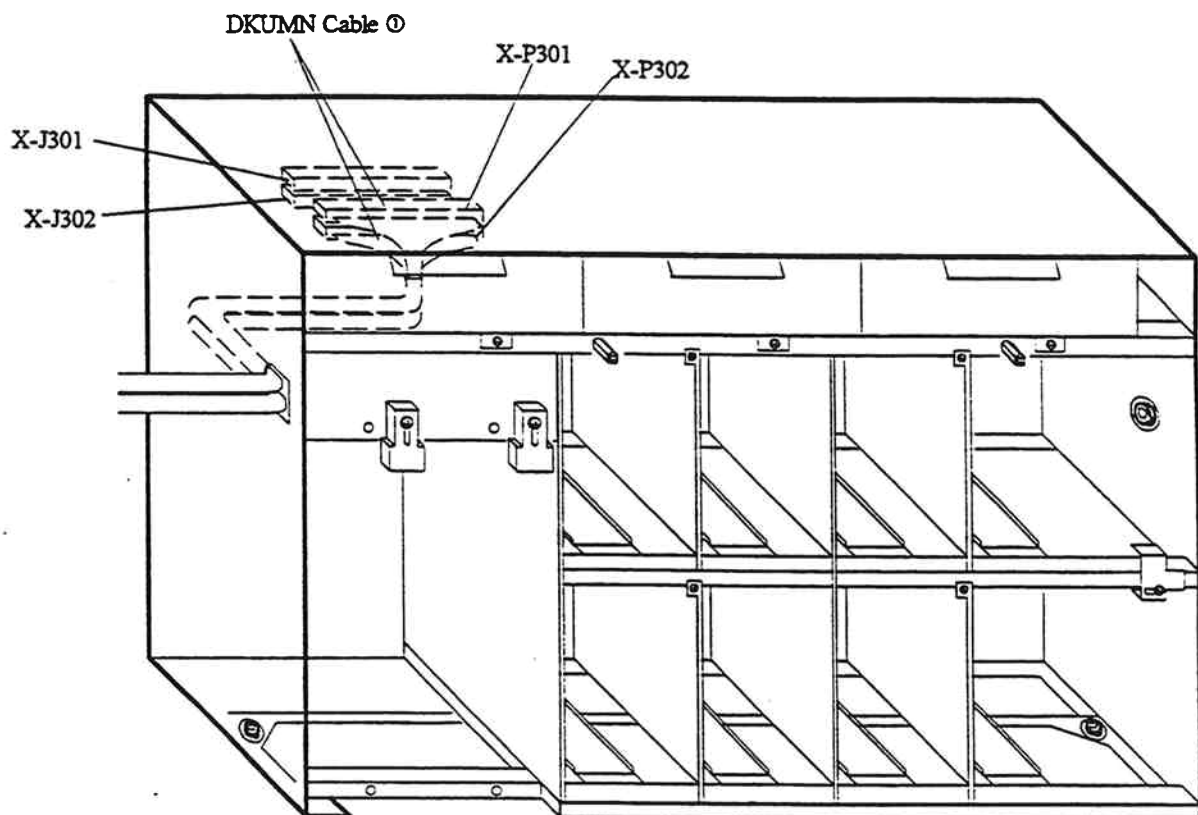
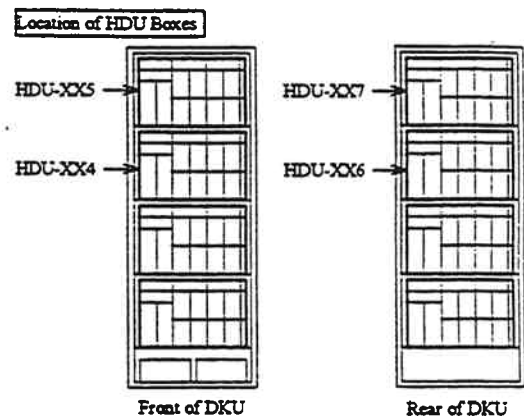


Fig. 3.3.9.3-8 Connection of the DKUMN Cables

6. Address setting of the HDU Box.

- a. For the basic and second disk units, install a jumper across pins #1 and #2 of socket JP1 on the HDD back board.
- b. For the third and fourth disk units, install a jumper across pins #3 and #4 of socket JP1 on the HDD back board.

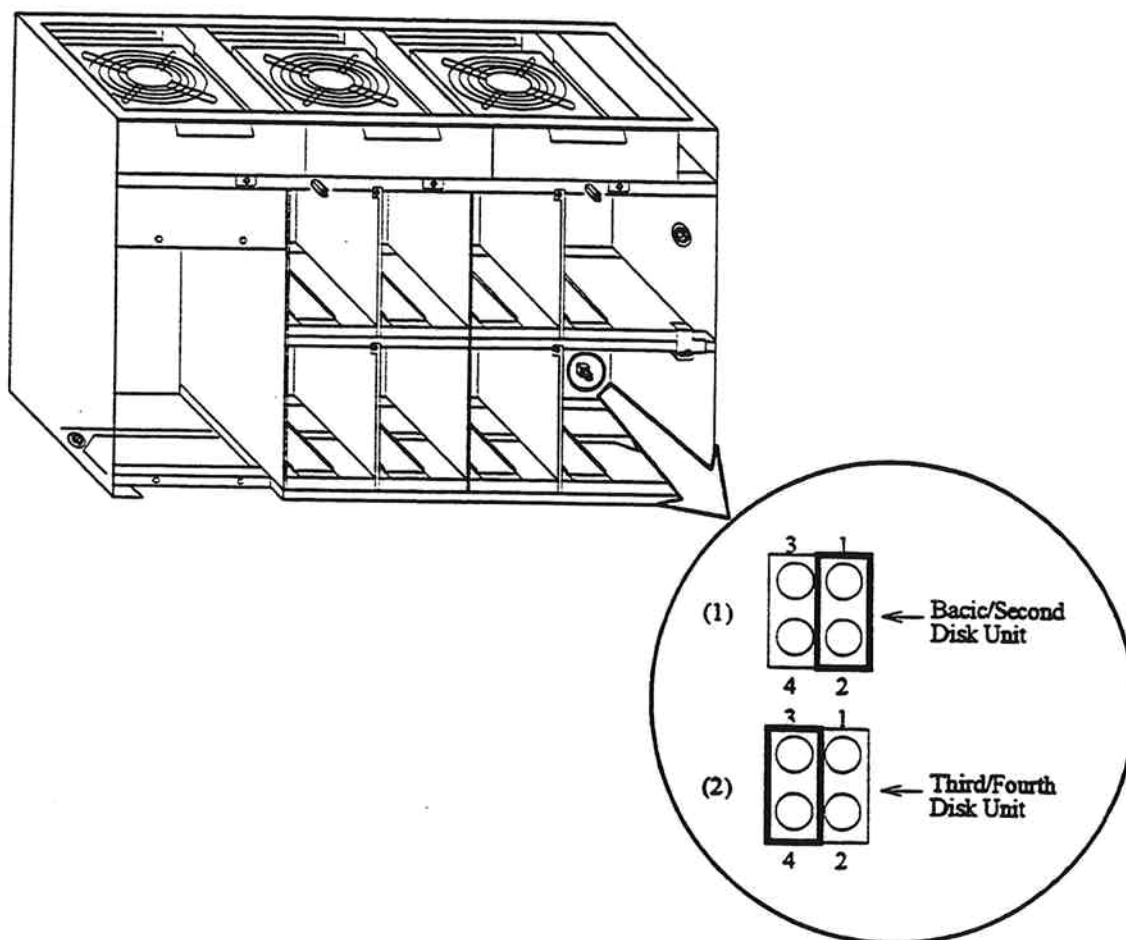


Fig. 3.3.9.3-9 Address Setting of the HDU Box

7. Attachment of the acrylic cover, SCSI BFR PCB, multi power supply, and partition plate.

- a. Attach the acrylic cover, SCSI BFR PCB, multi power supply, and partition plate in the HDU box in the reverse order of Step 1.

8. Attachment of the side plate.

- a. Attach the side plates in the reverse order of Step 2.

9. Connection of the INLET cable.

a. Connect the INLET cables ① referring to Table 3.3.9.3-2 and Fig. 3.3.9.3-10.

Table 3.3.9.3-2 INLET Cables and Matching Connectors

Location of HDU Box	No.	INLET Cable ①	Connector
XX4	1	4-P601-1	4-J601-1
	2	4-P601-2	4-J601-2
XX5	1	5-P601-1	5-J601-1
	2	5-P601-2	5-J601-2
XX6	1	6-P601-1	6-J601-1
	2	6-P601-2	6-J601-2
XX7	1	7-P601-1	7-J601-1
	2	7-P601-2	7-J601-2

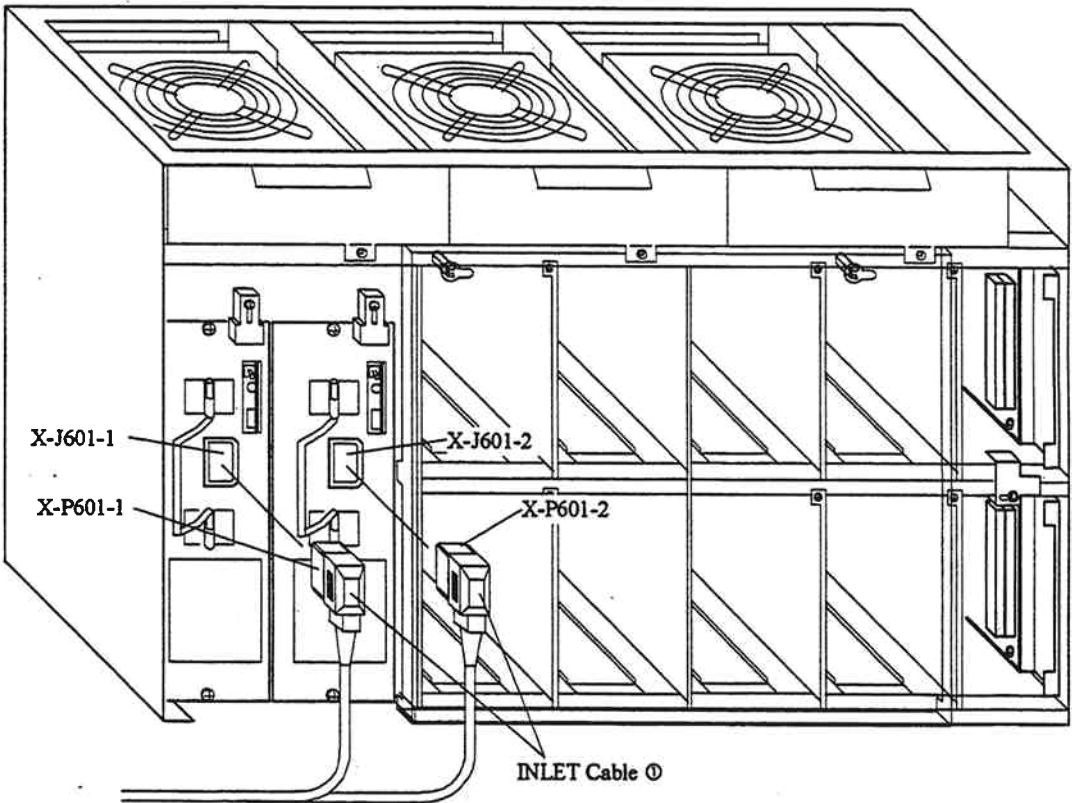
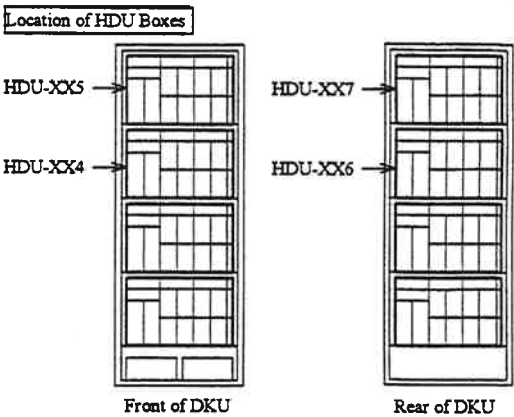


Fig. 3.3.9.3-10 Connection of the INLET Cable

10. Attachment of the nameplate and label (REV).

- a. Attach the nameplate ① and label (REV) ② of additional HDU box, referring to a Fig. 3.3.9.3-11.

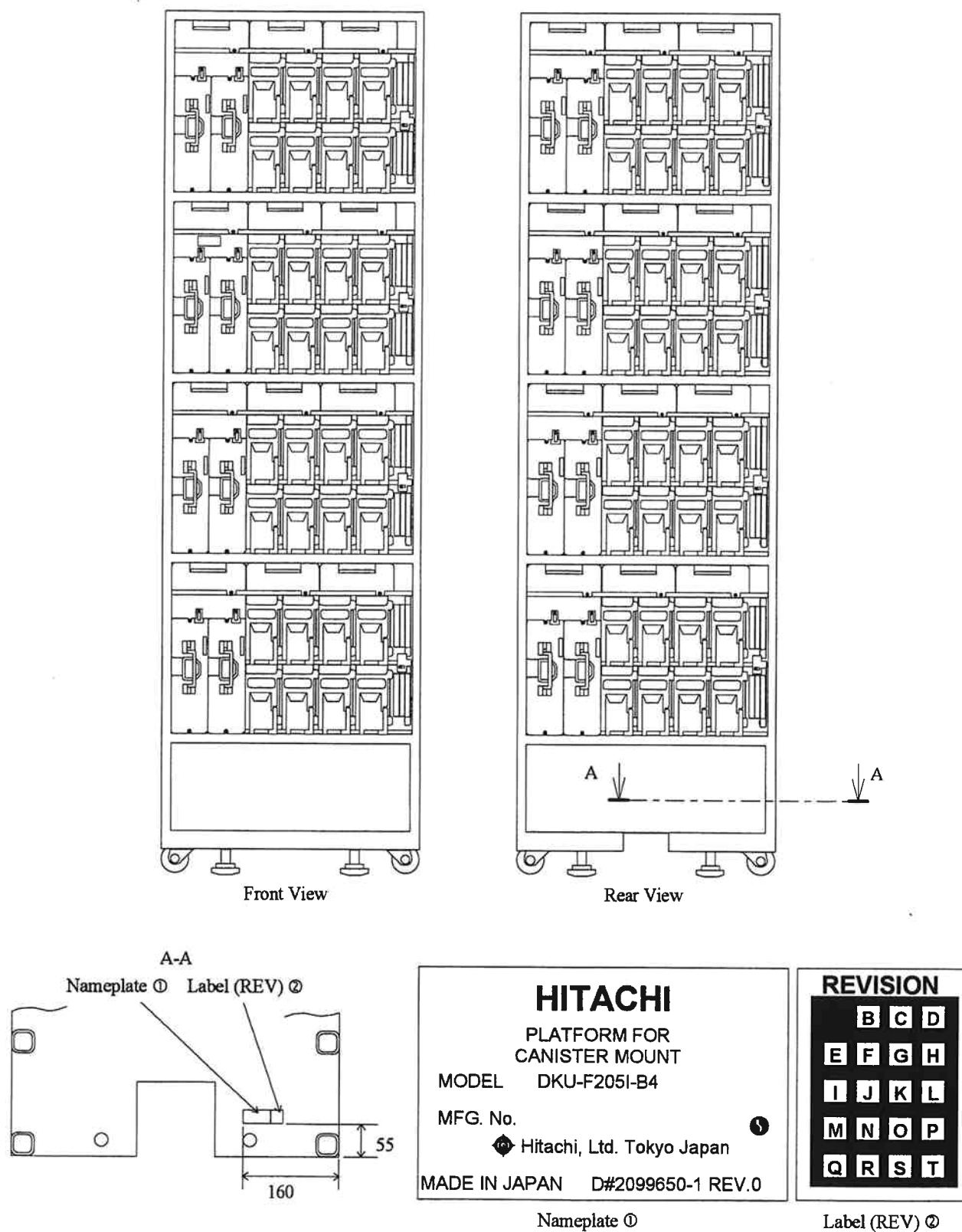


Fig. 3.3.9.3-11 Attachment of the Nameplate and Label (REV)

11. Setting of the PS enable switch on the multi power supply.

11.1 Case in multi power supplies of old type.

- a. Set the PS enable switch ① on the multi power supply ② to on and make sure that the PS enable LED ③ goes on.

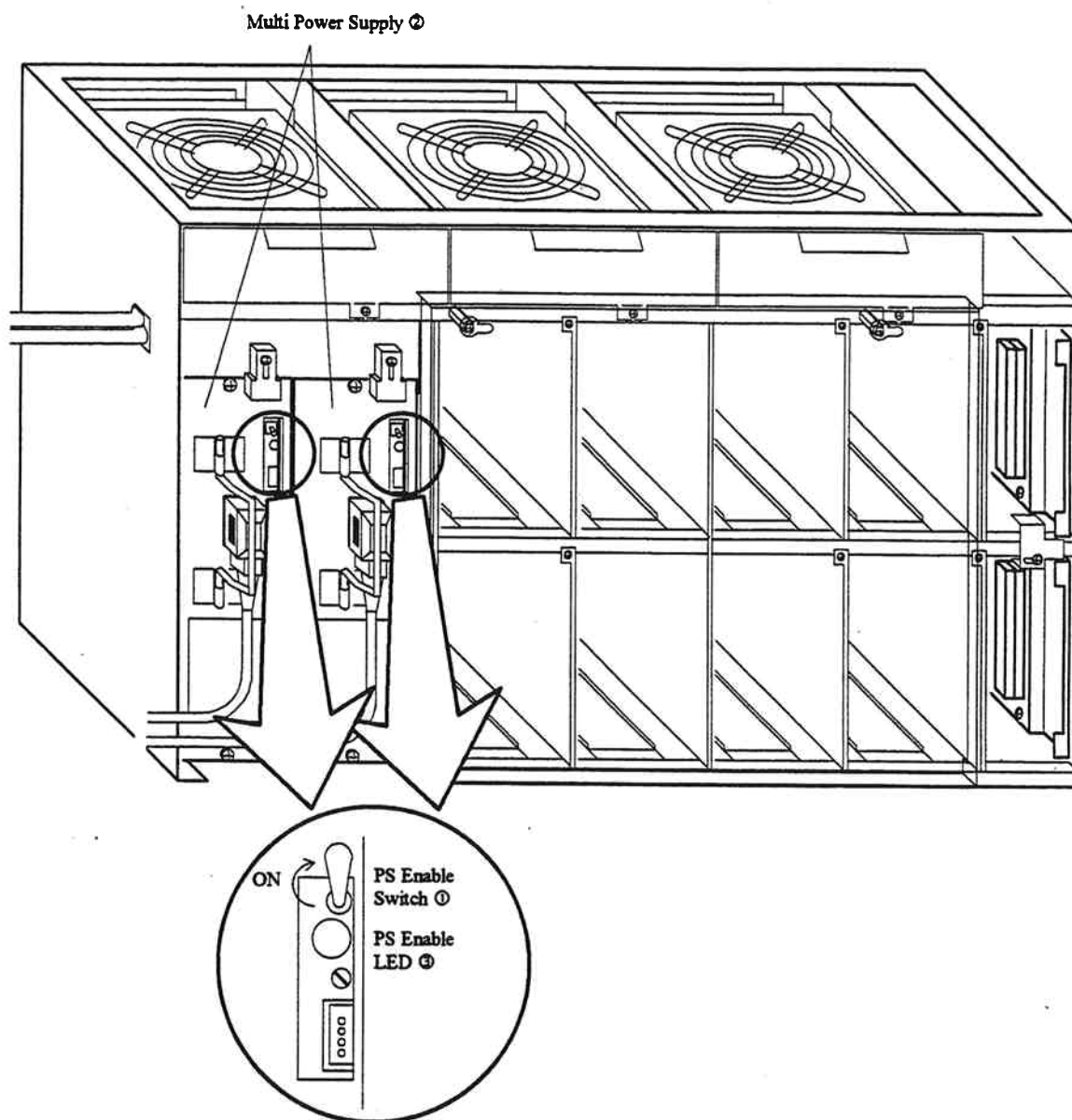


Fig. 3.3.9.3-12 Setting of the PS Enable Switch on the Multi Power Supply (Old Type)

11.2 Case in multi power supplies of new type.

- a. Set the PS enable switch ① on the multi power supply ② to on and make sure that the PS enable LED ③ goes on.

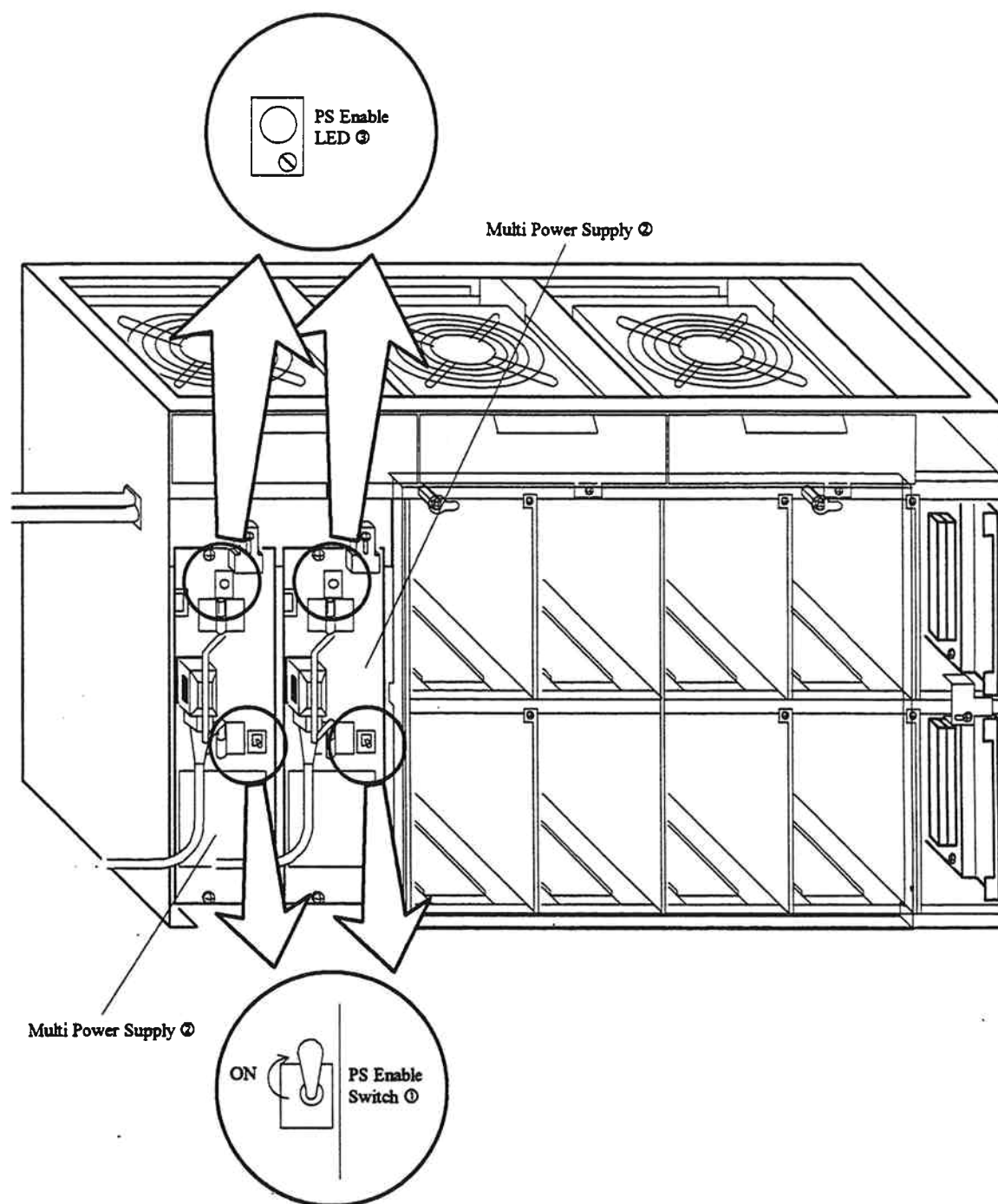


Fig. 3.3.9.3-13 Setting of the PS Enable Switch on the Multi Power Supply (New Type)

12. Installation of the jumper plug on the DKUMN PCB.

- a. Install the jumper plugs for JP3 ① on the DKUMN PCBs ②, referring to Fig. 3.3.9.3-14.

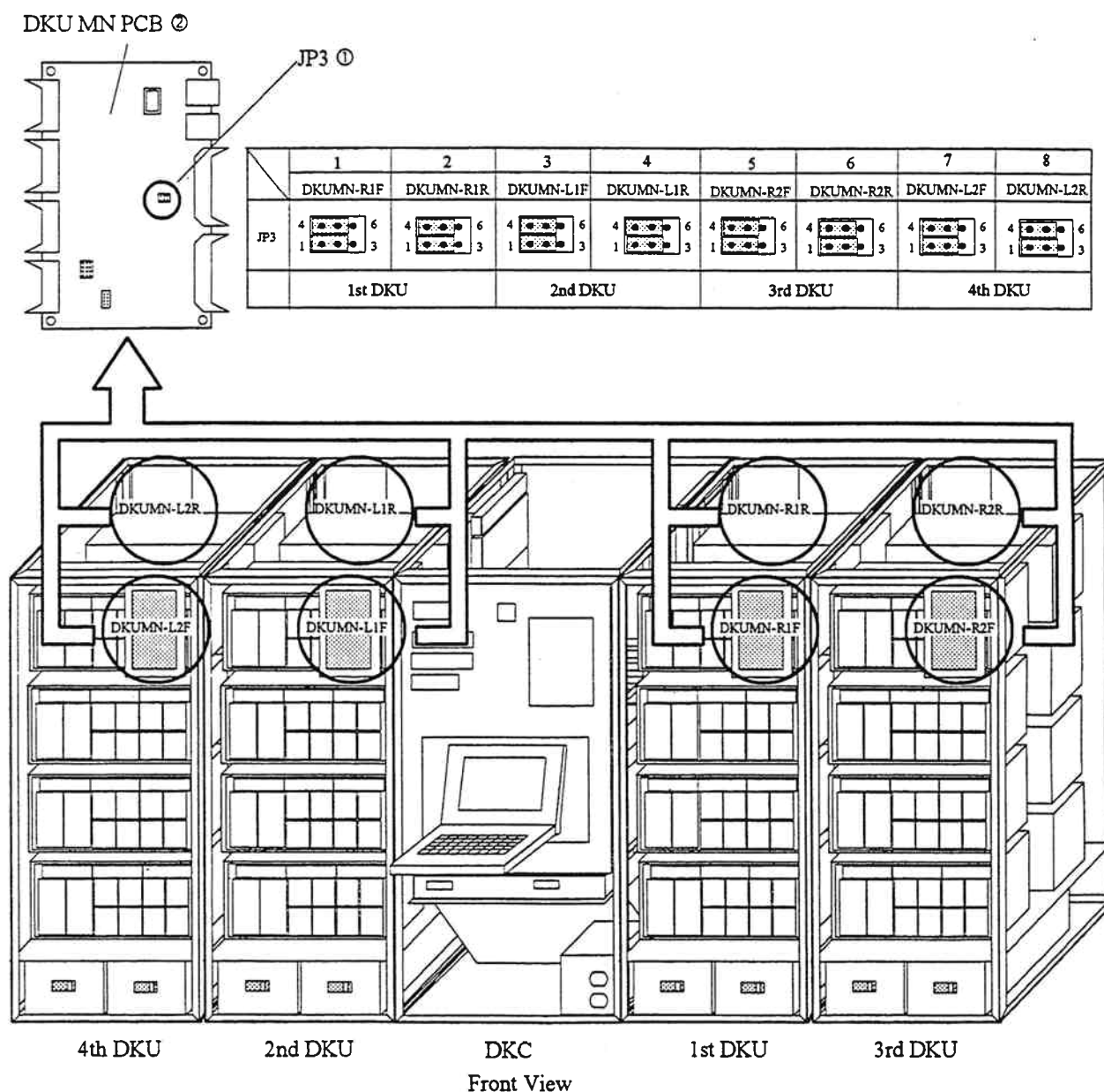


Fig. 3.3.9.3-14 DKUMN PCB Jumper Plug Positions

13. Return to General Flow.

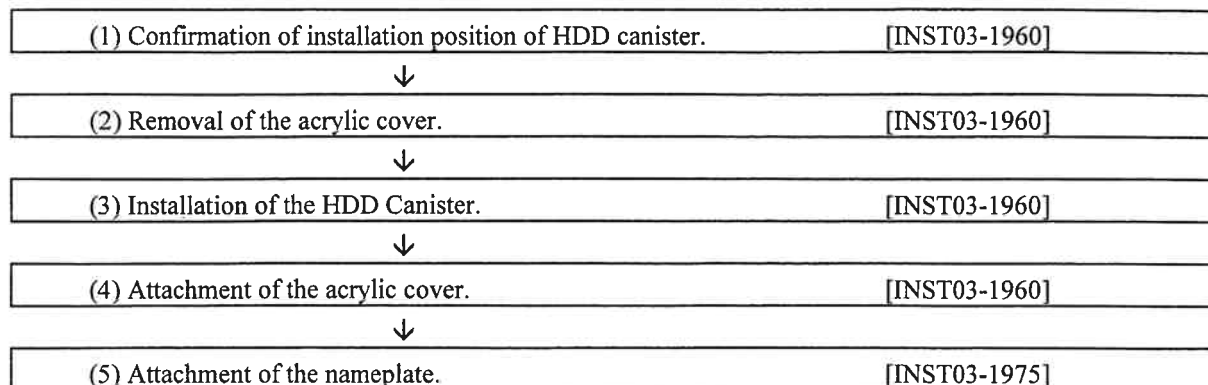
New Installation: Go to INST02-11 Step (10)-2.

Non-Disruptive Installation: Go to INST02-21 Step (10)-2.

Disruptive Installation: Go to INST02-41 Step (9)-2.

3.3.10 Installation of HDD Canister (DKU-F205I-406/401/906/901/304/904, DKU-F305I-1804/1801)

3.3.10.1 Flowchart



3.3.10.2 Parts List

Table 3.3.10.2-1 Parts List for HDD Canister

No.	Model Number	Parts Name	Parts No.	Quantity	Remarks
1	DKU-F205I-406	Canister Assy	5487064-A	6	DK306-45 or DK308-45×6
		Nameplate	2099650-2	1	
2	DKU-F205I-401	Canister Assy	5487064-A	1	DK306-45 or DK308-45×1
		Nameplate	2099650-3	1	
3	DKU-F205I-906	Canister Assy	5491618-A	6	DK308-90×6
		Nameplate	2099650-26	1	
4	DKU-F205I-901	Canister Assy	5491618-A	1	DK308-90×1
		Nameplate	2099650-27	1	
5	DKU-F205I-304	Canister Assy	5487064-B	4	DK306-35×4
		Nameplate	2099650-22	1	
6	DKU-F205I-904	Canister Assy	5491618-A	4	DK308-90×4
		Nameplate	2099650-41	1	
7	DKU-F305I-1804	Canister Assy	5497473-A	4	DK309-180×4
		Nameplate	2102118-4	1	
8	DKU-F305I-1801	Canister Assy	5497473-A	1	DK309-180×1
		Nameplate	2102118-1	1	

3.3.10.3 Installation Procedure of HDD Canister

1. Installation of the HDD Canister.

1.1 In case of DKU205I-14 S/N 10001-10127.

- a. Refer to Chapter 3.1.4 Drive Expansion Sequence (INST01-70-INST01-96). Confirm a position to install HDD canister.

Notice!

The position to be installed in the 3rd or 4th DKU is different from one in the 1st or 2nd DKU. Be sure to set the HDDs in the right position. Wrong setting in the 3rd or 4th DKU may cause DKU failure on the same SCSI path.

- b. Loosen screws ① and remove the acrylic cover ②.
- c. Remove connector ③ from the HDD canister ④.
- d. Insert the HDD canister ④ into the HDU Box ⑤ and secure it with screw ⑥.
- e. Insert connector ③ into Jxxx ⑦.
- f. Attach the acrylic cover ②, and fix the screws ①.

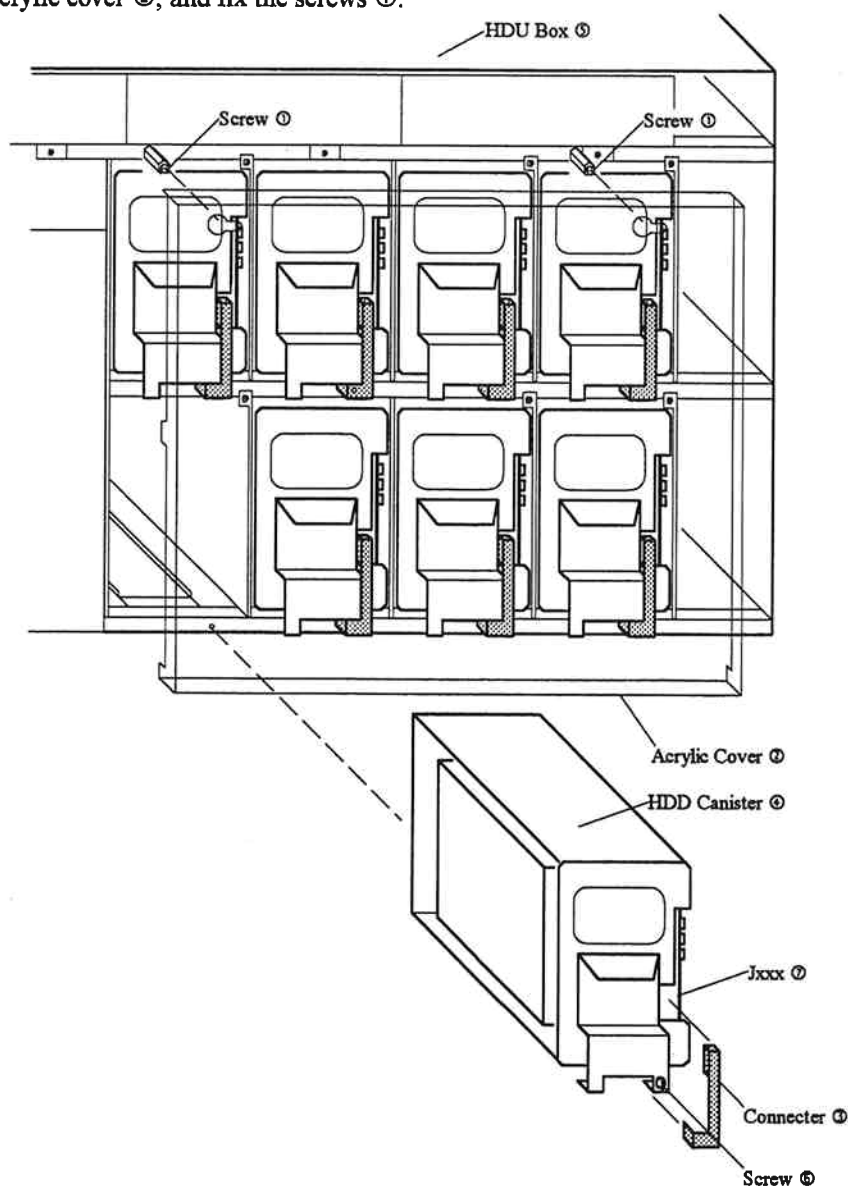


Fig. 3.3.10.3-1 Installation of HDD Canister

1.2 In case of DKU205I-14 S/N 10128-.

- a. Refer to Chapter 3.1.4 Drive Expansion Sequence (INST01-70-INST01-96). Confirm a position to install HDD canister.

Notice!

The position to be installed in the 3rd or 4th DKU is different from one in the 1st or 2nd DKU. Be sure to set the HDDs in the right position. Wrong setting in the 3rd or 4th DKU may cause DKU failure on the same SCSI path.

- b. Remove the acrylic cover ①.
 c. Remove connector ② from the HDD canister ③.
 d. Insert the HDD canister ③ into the HDU Box ④ and secure it with screw ⑤.
 e. Insert connector ② into Jxxx ⑥.
 f. Attach the acrylic cover ①.

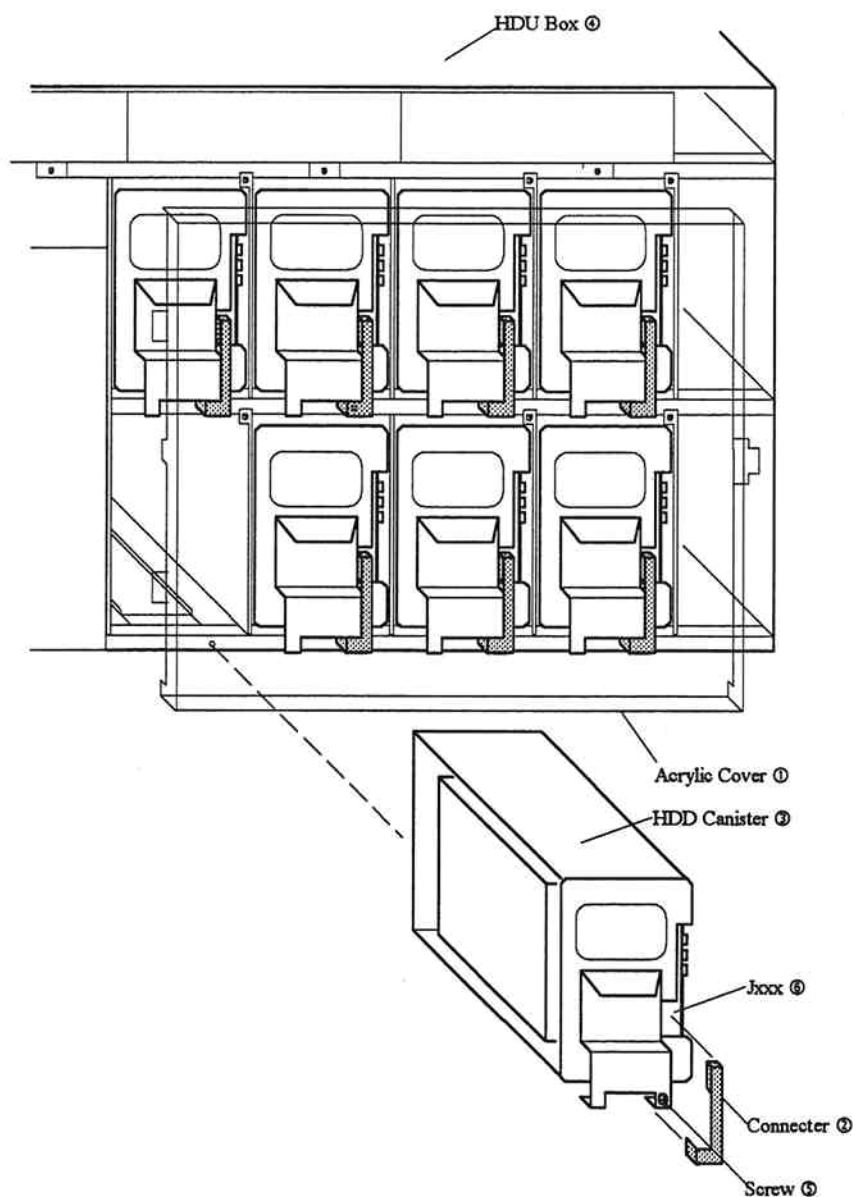


Fig. 3.3.10.3-2 Installation of HDD Canister

2. Attachment of the nameplate.

- a. Attach the nameplate to any locations of 24 parts/DKU regardless of the model number and location of the added HDD canister(s). (Fig. 3.3.10.3-3)

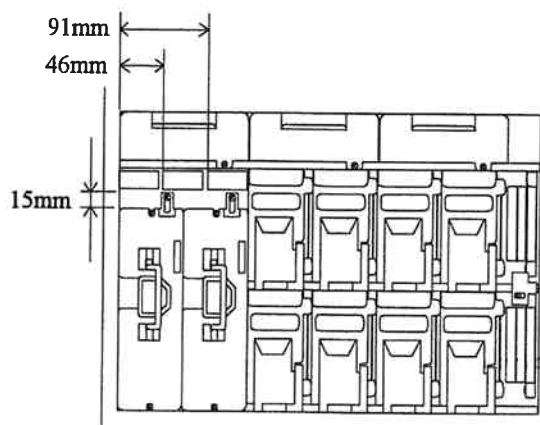
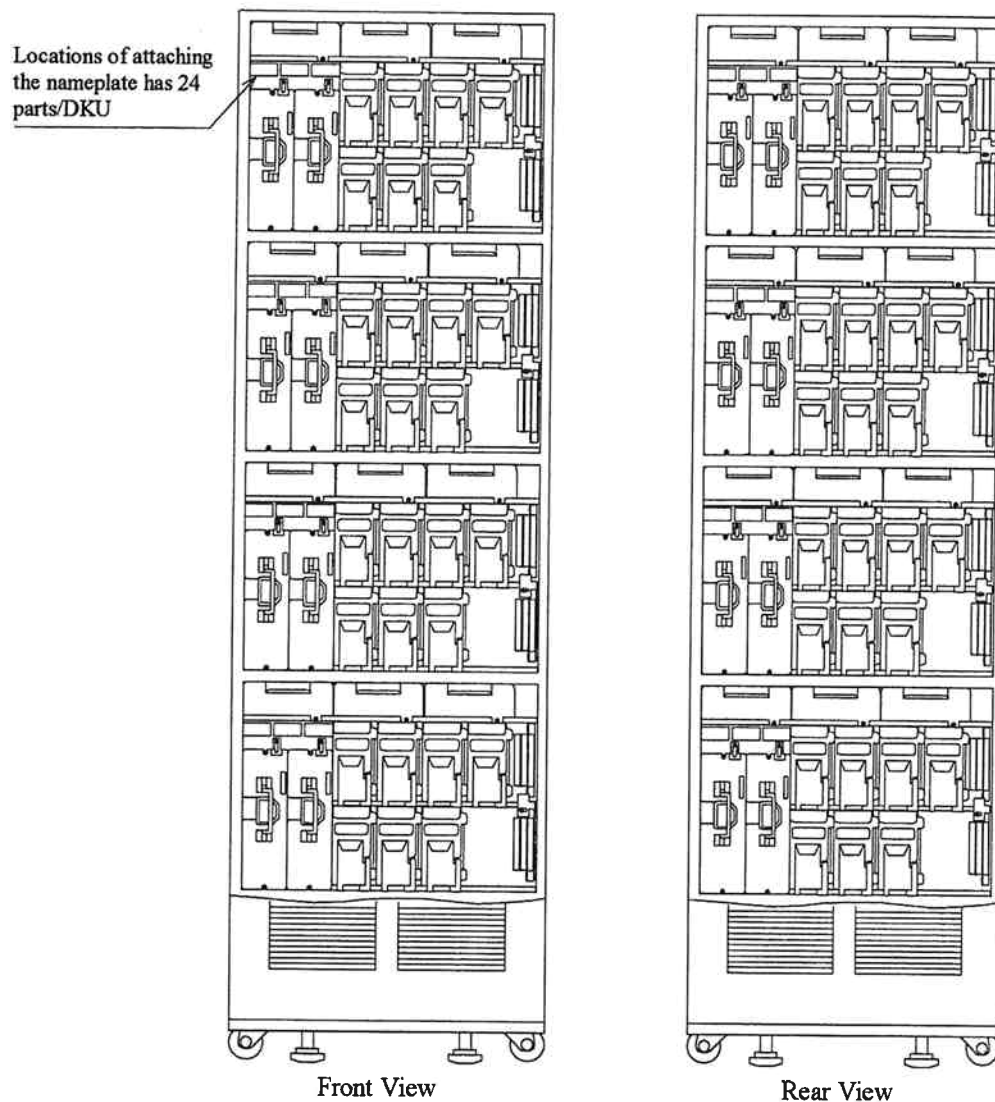


Fig. 3.3.10.3-3 Attachment of Nameplate

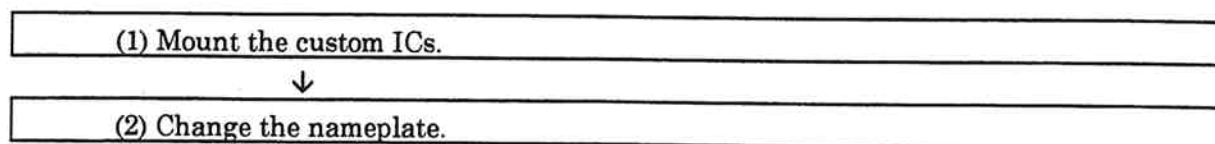
Blank Sheet

3. Return to General Flow.**New Installation: Go to INST02-11 Step (11A).****Non-Disruptive Installation: Go to INST02-22 Step (12)-2.****Disruptive Installation: Go to INST02-41 Step (11).**

3.3.11 Installation of RAID 5 Booster (DKC-F210I-51)

This model is necessary to support the RAID5 or RAID1 control method.

3.3.11.1 Flowchart



3.3.11.2 Parts List

Table 3.3.11.2 Parts List for RAID 5 Booster

No.	Model Number	Part Name	Part No.	Quantity	Remarks
1	DKC-F210I-51	IC	5483866-101	2	

3.3.11.3 Installation Procedure of RAID 5 Booster

1. Mount the IC referring to Fig. 3.3.11.3-1 and Fig. 3.3.11.3-2.

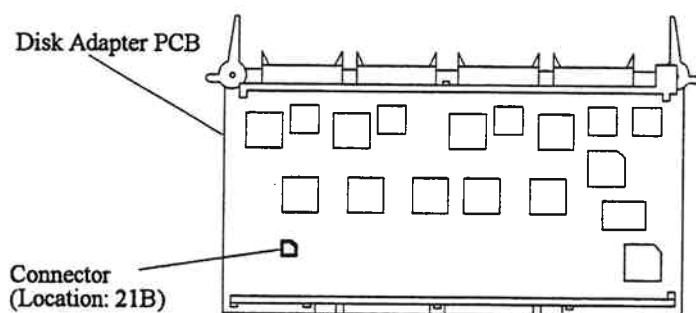


Fig. 3.3.11.3-1 Mounting Location

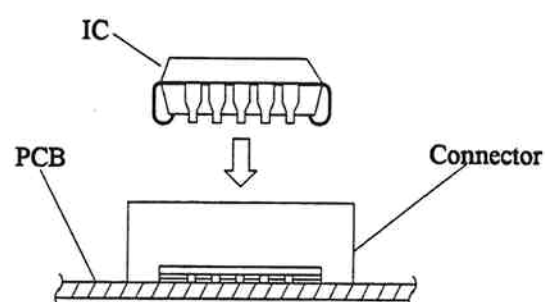


Fig. 3.3.11.3-2 Mounting of IC

2. Change the nameplate

- a. Wipe off and mark out the necessary number of "Qt." for DKC-F210I-51 on the FEATURE MODEL nameplate.
Refer to Fig. 3.3.11.3-3 and Table 3.3.11.3-1.

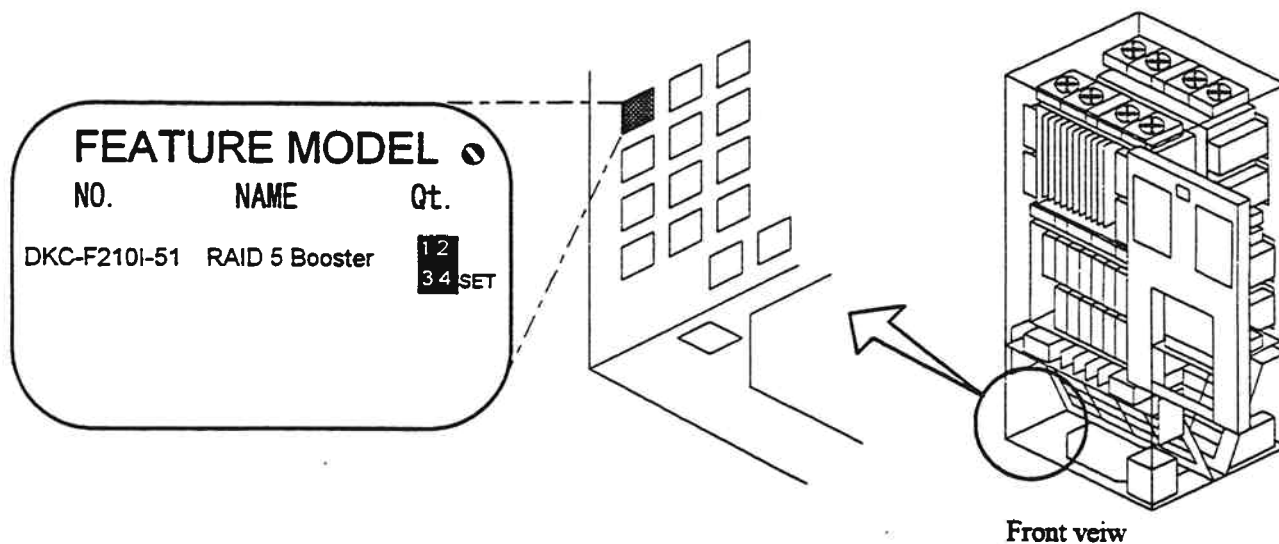


Fig. 3.3.11.3-3 Change of Nameplate

Table 3.3.11.3-1 Quantity Marking

No.	Quantity Marking	
	Number of DKC-F210I-51 sets	Qt.
1	1 set	1
2	2 sets	2
3	3 sets	3
4	4 sets	4

3. Return to General Flow.

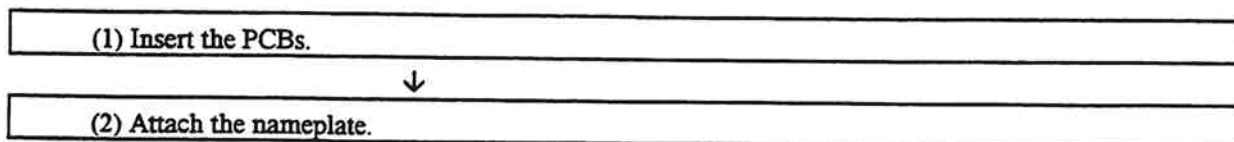
New Installation: Go to INST02-10 Step (8)-2.

Non-disruptive Installation: Go to INST02-21 Step (11)-2.

Disruptive Installation: Go to INST02-40 Step (7)-2.

3.3.12 Installation of Additional 8-path Box Adapter(DKC-F210I-50/50E)

3.3.12.1 Flowchart



3.3.12.2 Parts list

Table 3.3.12.2.1-1 Parts List for Additional 8-path Box Adapter

No.	Model Number	Part Name	Part No.	Quantity	Remarks
1	DKC-F210I-50	Disk Adapter PCB	3236919-B	2	
		Clip(2)	5480324-1	2	
		Clip(4)	5480326-1	2	
		Nameplate	3243363-1	1	
2	DKC-F210I-50E	Disk Adapter PCB	3244973-B	2	
		Clip(2)	5480324-1	2	
		Clip(4)	5480326-1	2	
		Nameplate	3244906-1	1	

3.3.12.3 Installation Procedure of Additional 8-path Box Adapter

Be sure to wear your wrist strap and attach to ground prior to performing the following work. This will insure that the IC and LSI on the PCB are protected from static electricity.

1. Insertion of the PCBs

- a. Insert the PCBs to the correct locations in the Logic Box. Refer to Table 3.3.12.3-1 and Fig. 3.3.12.3-1.

Table 3.3.12.3-1 Inserting Location

No.	Part name	Slot No.	Location No.	Remarks
1	Disk Adapter PCB	H and M	DKA-1H and DKA-2M	1st set
2	Disk Adapter PCB	J and N	DKA-1J and DKA-2N	2nd set
3	Disk Adapter PCB	K and P	DKA-1K and DKA-2P	3rd set

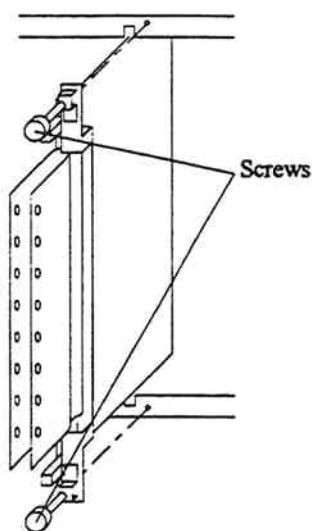


Fig. 3.3.12.3-1 Insertion of PCB

2. Attachment of the nameplate

a. Attach the nameplate referring to Fig. 3.3.12.3-2.

• DKC-F210I-50

HITACHI	
ADDITIONAL 8-PATH BOX ADAPTER	
MODEL DKC-F210I-50	
VOLTS	
AMP'S	
FREQ.	PH. WIRES
MFG.No.	
● Hitachi, Ltd. Tokyo Japan	
MADE IN JAPAN	

• DKC-F210I-50E

HITACHI	
HIGH SPEED ADDITIONAL 8-PATH BOX ADAPTER	
MODEL DKC-F210I-50E	
VOLTS	
AMP'S	
FREQ.	PH. WIRES
MFG.No.	
● Hitachi, Ltd. Tokyo Japan	
MADE IN JAPAN	

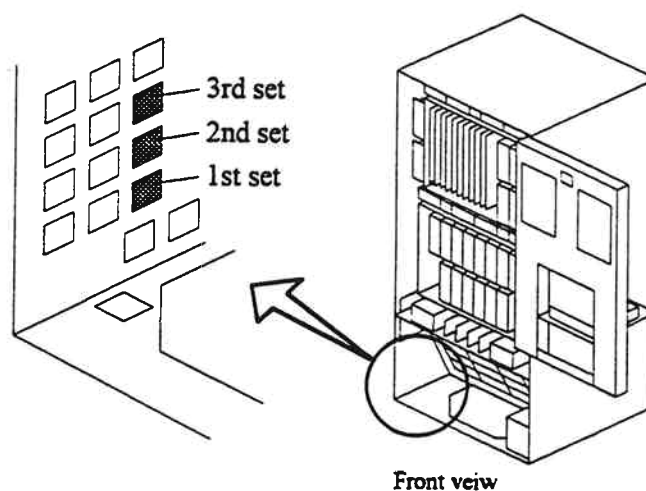


Fig. 3.3.12.3-2 Attachment of Nameplate

3. Return to General Flow.

New Installation: Go to INST02-11 Step (9).

Non-disruptive Installation: Go to INST02-21 Step (11)-3.

Disruptive Installation: Go to INST02-40 Step (7A).

3.3.13 Connection of SCSI Interface Cables

3.3.13.1 Connection of Additional SCSI Interface Cables (DKU-F205I-2C)

3.3.13.1.1 Flowchart

1. Connection Procedure of SCSI Interface Cables between DKC and Second DKU (HDU-L10-L13) Chassis

(1) Open the front and rear doors from the disk controller and Second Disk Unit.	[INST03-2070]
↓	
(2) Remove the Logic Box cover.	[INST03-2070]
↓	
(3) Connect the SCSI interface cables.	[INST03-2070]
↓	
(4) Fix the SCSI interface cables.	[INST03-2090]
↓	
(5) Attach the nameplate.	[INST03-2100]
↓	
(6) Replace the Logic Box cover.	[INST03-2100]
↓	
(7) Close the front and rear doors on the disk controller and Second Disk Unit.	[INST03-2100]

2. Connection Procedure of SCSI Interface Cables between DKC and Second DKU (HDU-L14-L17) Chassis

(1) Open the front and rear doors from the disk controller and Second Disk Unit.	[INST03-2110]
↓	
(2) Remove the Logic Box cover.	[INST03-2110]
↓	
(3) Connect the SCSI interface cables.	[INST03-2110]
↓	
(5) Fix the SCSI interface cables.	[INST03-2130]
↓	
(4) Replace the Logic Box cover.	[INST03-2130]
↓	
(5) Close the front and rear doors on the disk controller and Second Disk Unit.	[INST03-2130]

3.3.13.1.2 Parts List

Table 3.3.13.1.2-1 Parts List for Additional SCSI Interface Cable

No.	Model Number	Parts Name	Parts No. (Spare Parts No.)	Quantity	Remarks
1	DKU-F205I-2C	SCSI Interface Cable	2098191-A-R (5487066-A-R)	16	HDU-L10-L17
		Nameplate	2099650-4	1	2C

3.3.13.1.3 Connection Procedure of Additional SCSI Interface Cables (In case of HDU-L13 from L10)

- Open the front and rear doors from the disk controller and Basic Disk Unit.
- Remove the Logic Box cover.
- Refer to Fig. 3.3.13.1.3-1. Route the four SCSI interface cables listed in Table 3.3.13.1.3-1 from the front to the rear of the disk controller through the cable duct.

Table 3.3.13.1.3-1 Parts List for Additional SCSI Interface Cable

No.	Connector No.		Parts No. (Spare Parts No.)
	Source	Destination	
1	1J1	0UP501	2098191-A (5487066-A)
2	1J2	1UP501	2098191-C (5487066-C)
3	2N1	0LP501	2098191-B (5487066-B)
4	2N2	1LP501	2098191-D (5487066-D)

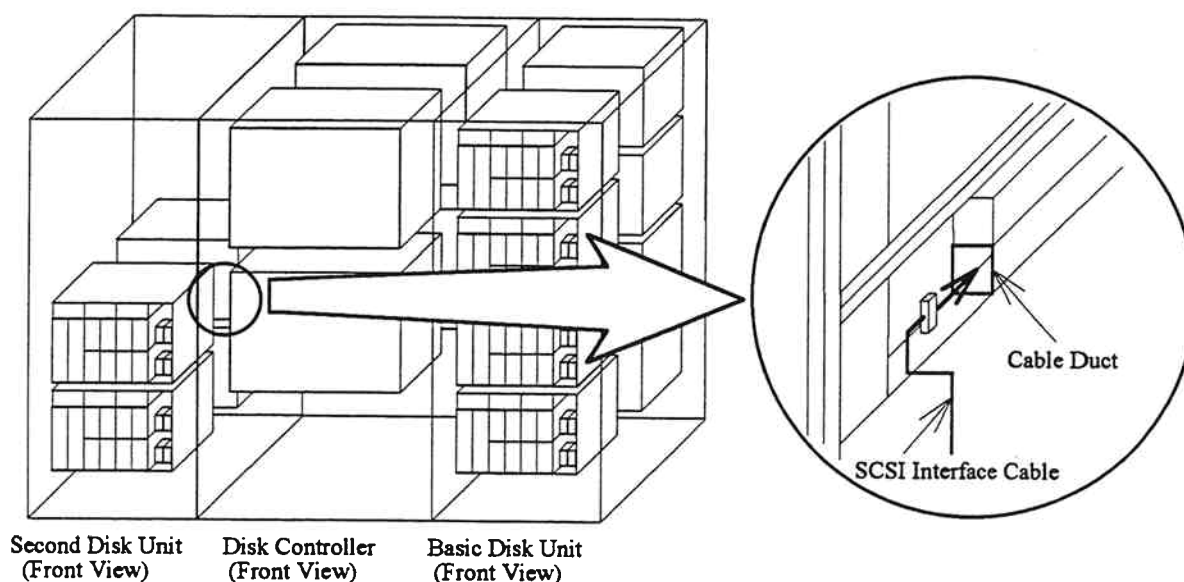


Fig. 3.3.13.1.3-1 Connection of SCSI Interface Cable

- d. Refer to Fig. 3.3.13.1.3-2. Connect the SCSI interface cables to the sub-edges on the disk adapter PCBs, that are installed in locations Nos. J and N in the Logic Box.

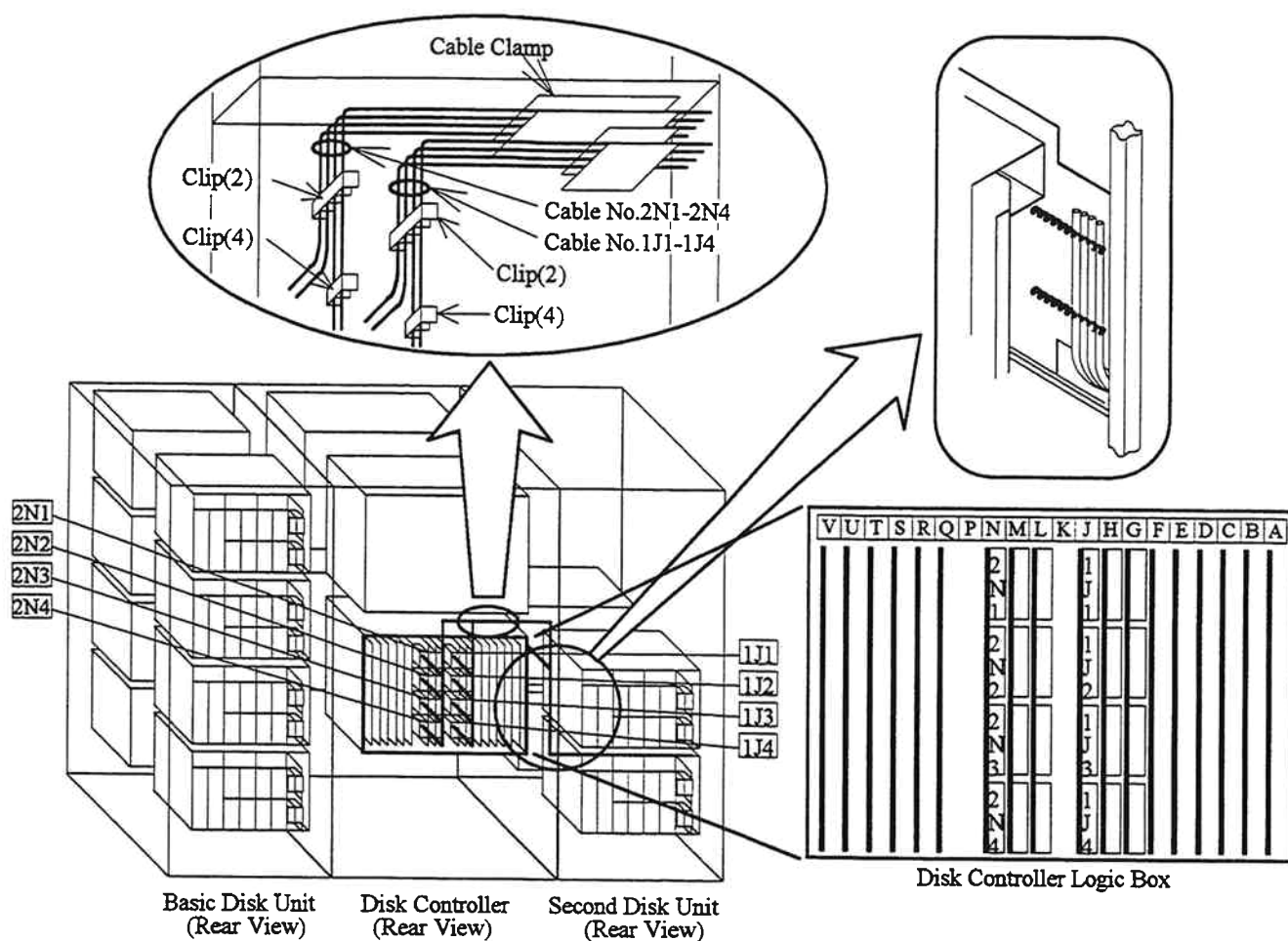


Fig. 3.3.13.1.3-2 SCSI Interface Cabling Diagram (Disk Adapter PCB Side)

- e. Refer to Fig. 3.3.13.1.3-3. Connect the SCSI interface cables to the sub-edges on the SCSI BFR PCBs in the HDU box.

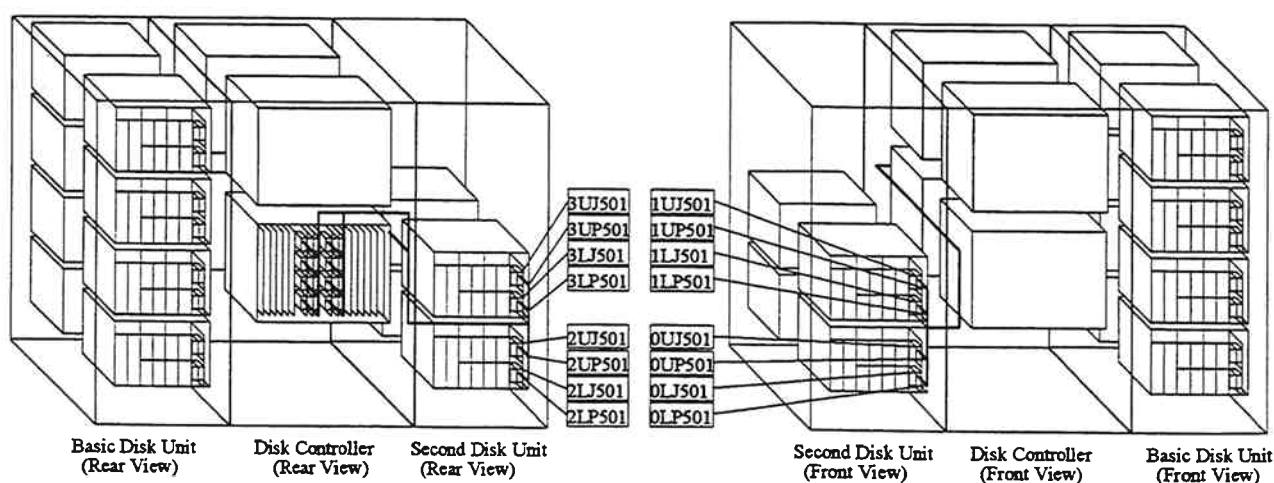


Fig. 3.3.13.1.3-3 SCSI Interface Cabling Diagram (SCSI BFR PCB Side)

- f. Refer to Fig. 3.3.13.1.3-4. Secure the SCSI interface cables to the cable duct with the cable fixing wire and repeat binder. If the SCSI interface cables are too long, fold them over inside the cable duct and secure them with the cable fixing wire and repeat binder.

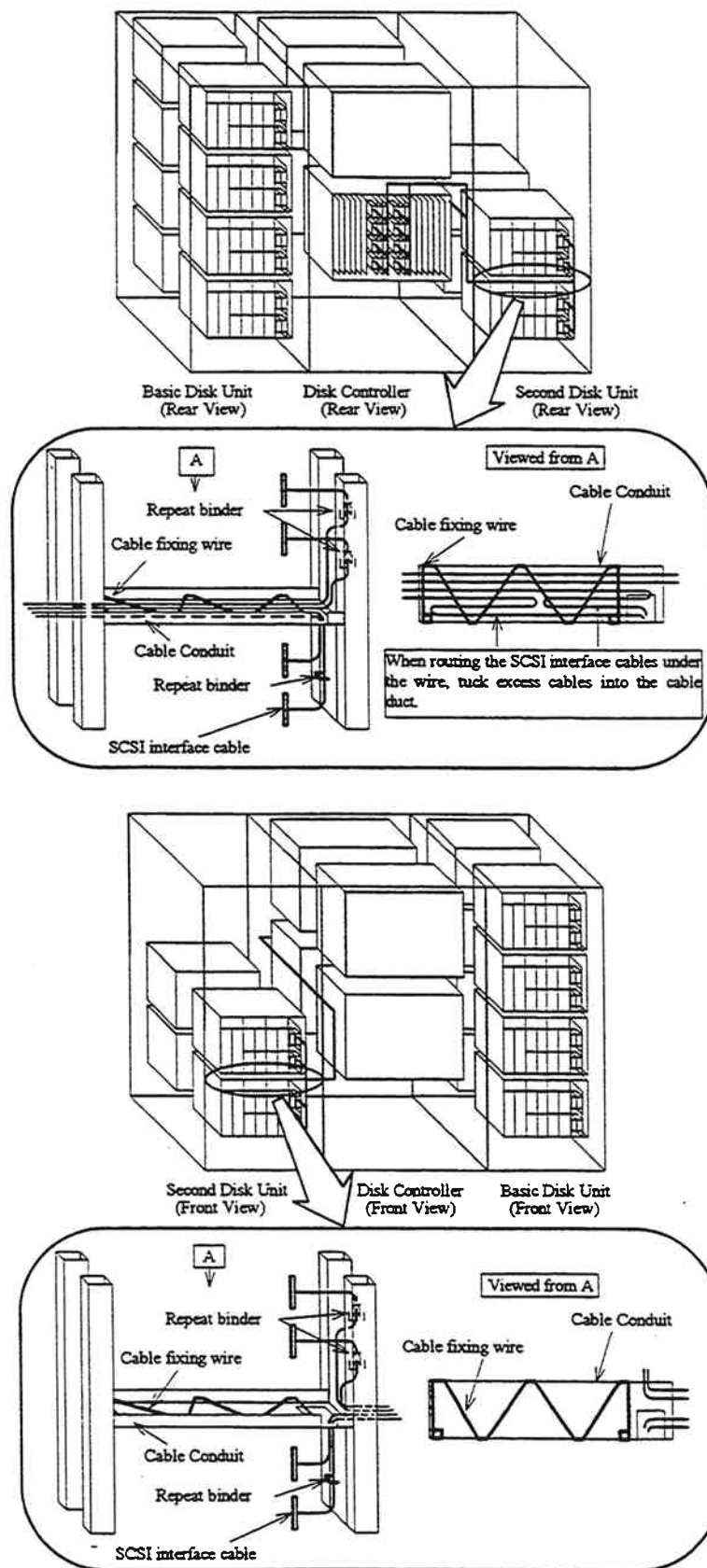


Fig. 3.3.13.1.3-4 Fixing of SCSI Interface Cables

- g. When assembling the Second Disk Units in the 4-HDU configuration, secure the remaining 8 SCSI interface cables inside the second disk unit with the tie wraps. Refer to Fig. 3.3.13.1.3-5. When assembling the Second Disk Units in the 8-HDU configuration, refer to the subsequent subsections.

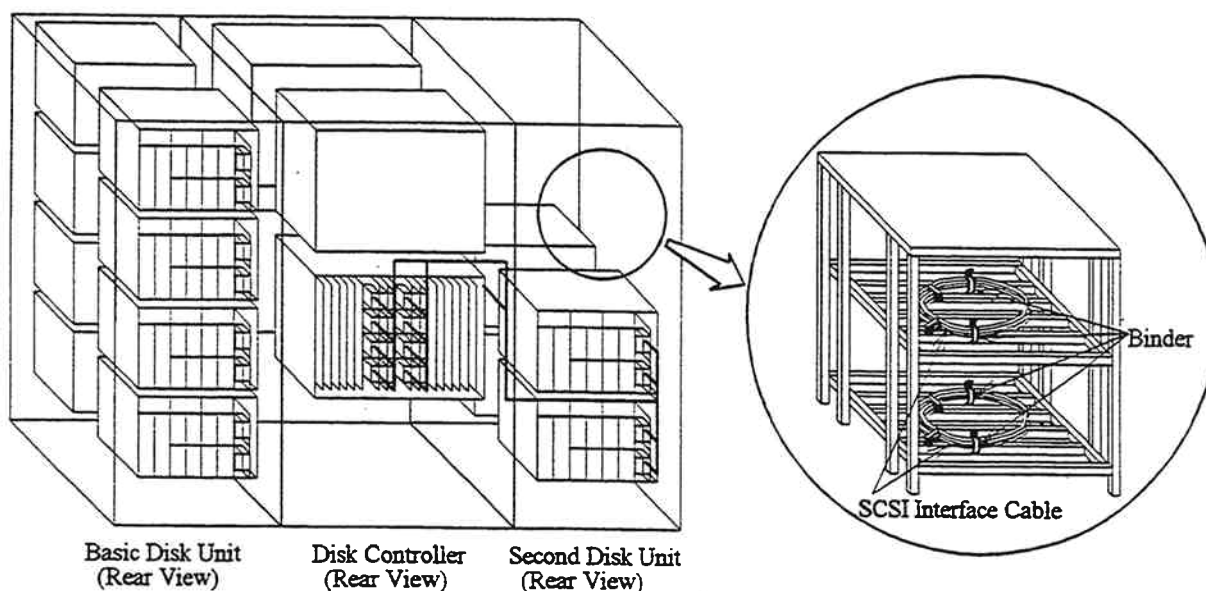


Fig. 3.3.13.1.3-5 Fixing of SCSI Interface Cables

- h. Refer to Fig. 3.3.13.1.3-6. Attach the nameplate.

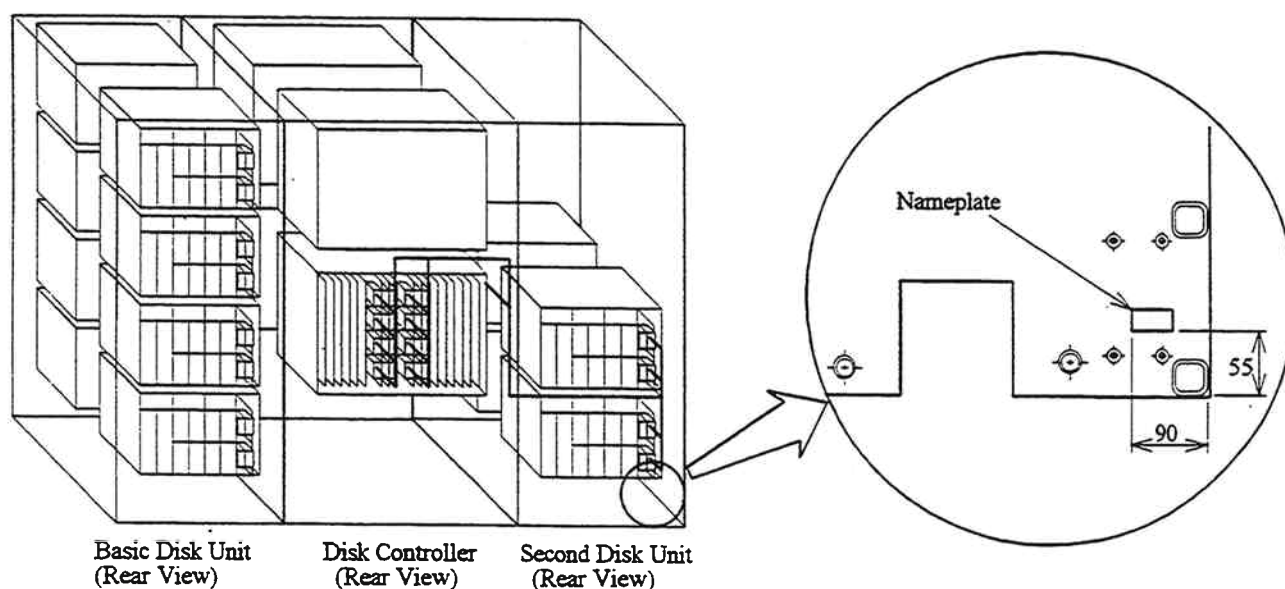


Fig. 3.3.13.1.3-6 Attachment of Nameplate

- i. Replace the Logic Box cover.
j. Close the front and rear doors on the disk controller and Second Disk Unit.

3.3.13.1.4 Connection Procedure of Additional SCSI Interface Cables (In case of HDU-L17 from L14)

- Open the front and rear doors from the disk controller and Second Disk Unit.
- Remove the Logic Box cover.
- Refer to Fig. 3.3.13.1.3-7. Route the four SCSI interface cables listed in Table 3.3.13.1.3-2 from the front to the rear of the disk controller through the cable duct.

Table 3.3.13.1.3-2 Parts List for Additional SCSI Interface Cable

No.	Connector No.		Parts No. (Spare Parts No.)
	Source	Destination	
1	1K1	4UP501	2098191-J (5487066-J)
2	1K2	5UP501	2098191-L (5487066-L)
3	2P1	4LP501	2098191-K (5487066-K)
4	2P2	5LP501	2098191-M (5487066-M)

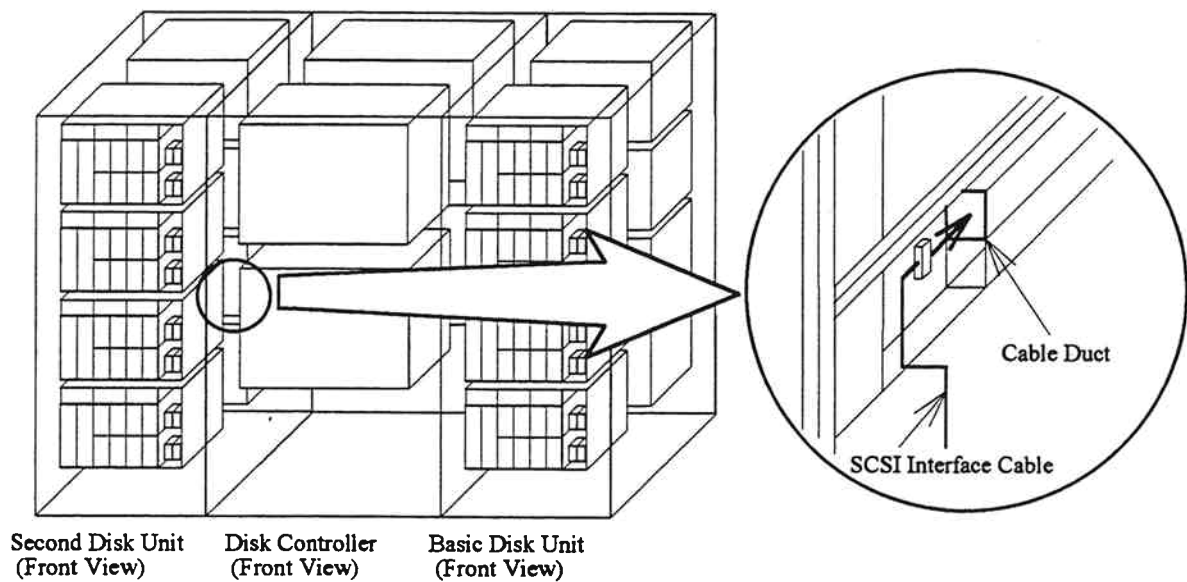


Fig. 3.3.13.1.3-7 Connection of SCSI Interface Cables

- d. Refer to Fig. 3.3.13.1.3-8. Connect the SCSI interface cables to the sub-edges on the disk adapter PCBs, that are installed in locations Nos. K and P in the Logic Box. Secure the cables by inserting them in between the cable clamps on the Logic Box.

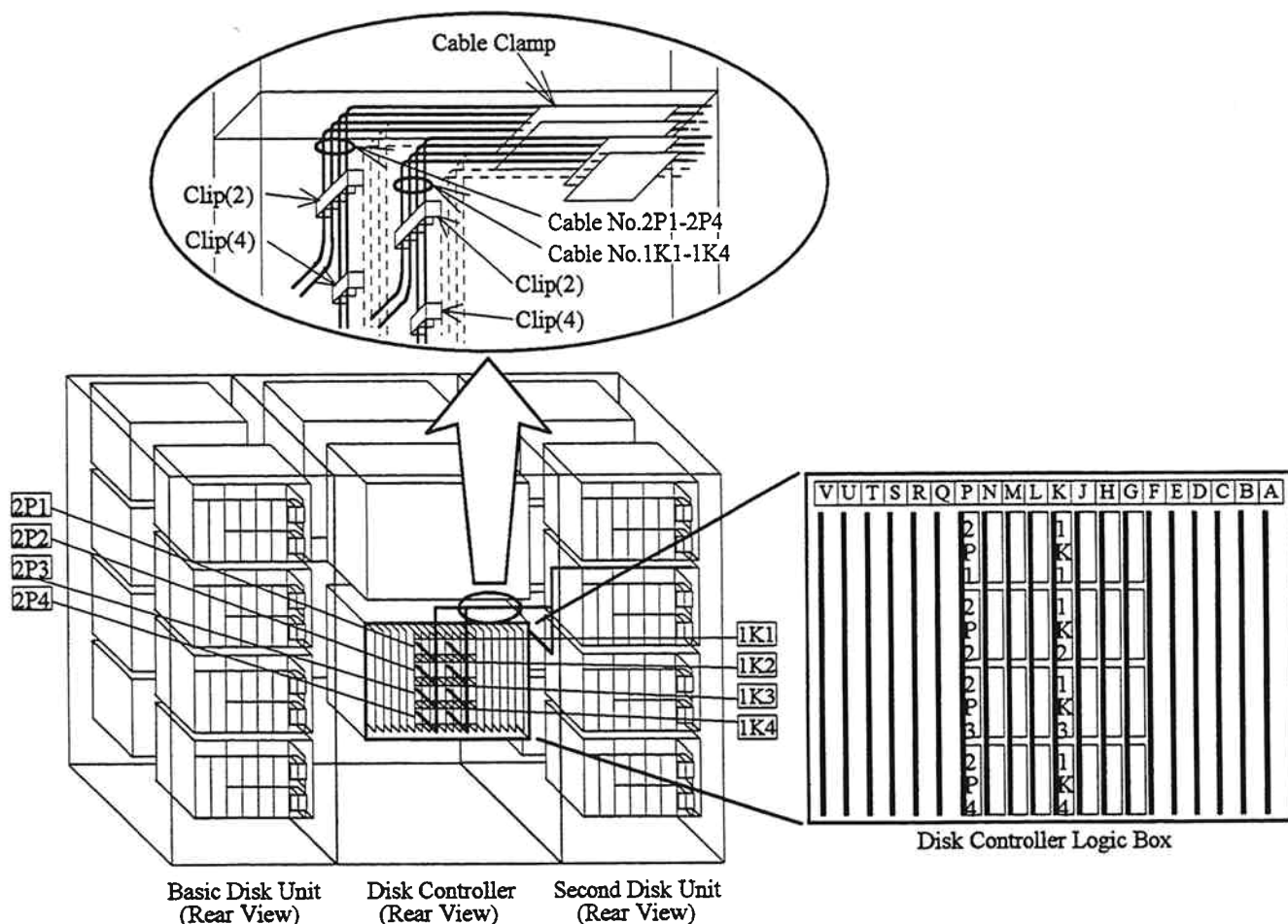


Fig. 3.3.13.1.3-8 SCSI Interface Cabling Diagram (Disk Adapter PCB Side)

- e. Refer to Fig. 3.3.13.1.3-9. Connection of SCSI Interface Cables to the Sub-Edges on SCSI BFR PCBs in HDU Box.

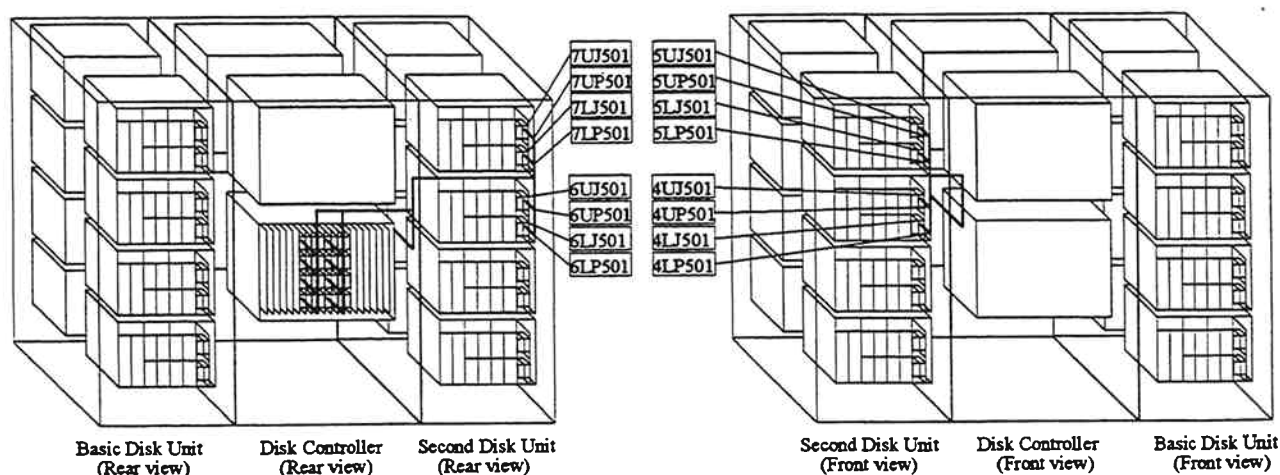


Fig. 3.3.13.1.3-9 SCSI Interface Cabling Diagram (SCSI BFR PCB Side)

- f. Refer to Fig. 3.3.13.1.3-10. Secure the SCSI interface cables on the cable duct with the cable fixing wire and repeat binder. If the SCSI interface cables are too long, fold them over inside the cable duct and secure them with the cable fixing wire and repeat binder.

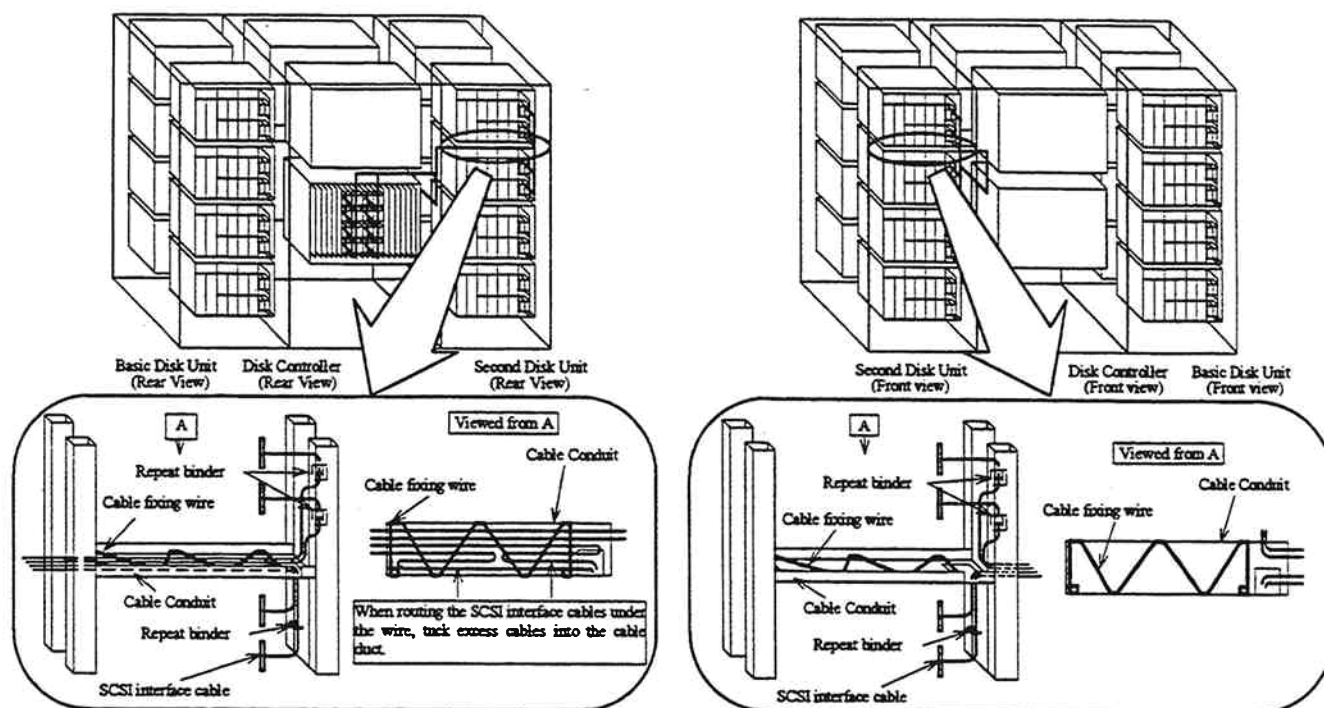


Fig. 3.3.13.1.3-10 Fixing of the SCSI Interface Cables

- g. Replace the Logic Box cover.
- h. Close the front and rear doors on the disk controller and Second Disk Unit.
- i. Return to General Flow.

New Installation

Additional DKU units Installation : Go to INST02-11 Step (9)-4.

HDU boxes Installation : Go to INST02-11 Step (10)-3.

Non-Disruptive Installation: Go to INST02-21 Step (11)-4.

Disruptive Installation

Additional DKU units Installation : Go to INST02-40 Step (8)-4.

HDU boxes Installation : Go to INST02-41 Step (9)-3.

3.3.13.2 Connection of Additional SCSI Interface Cables (DKU-F205I-34C)

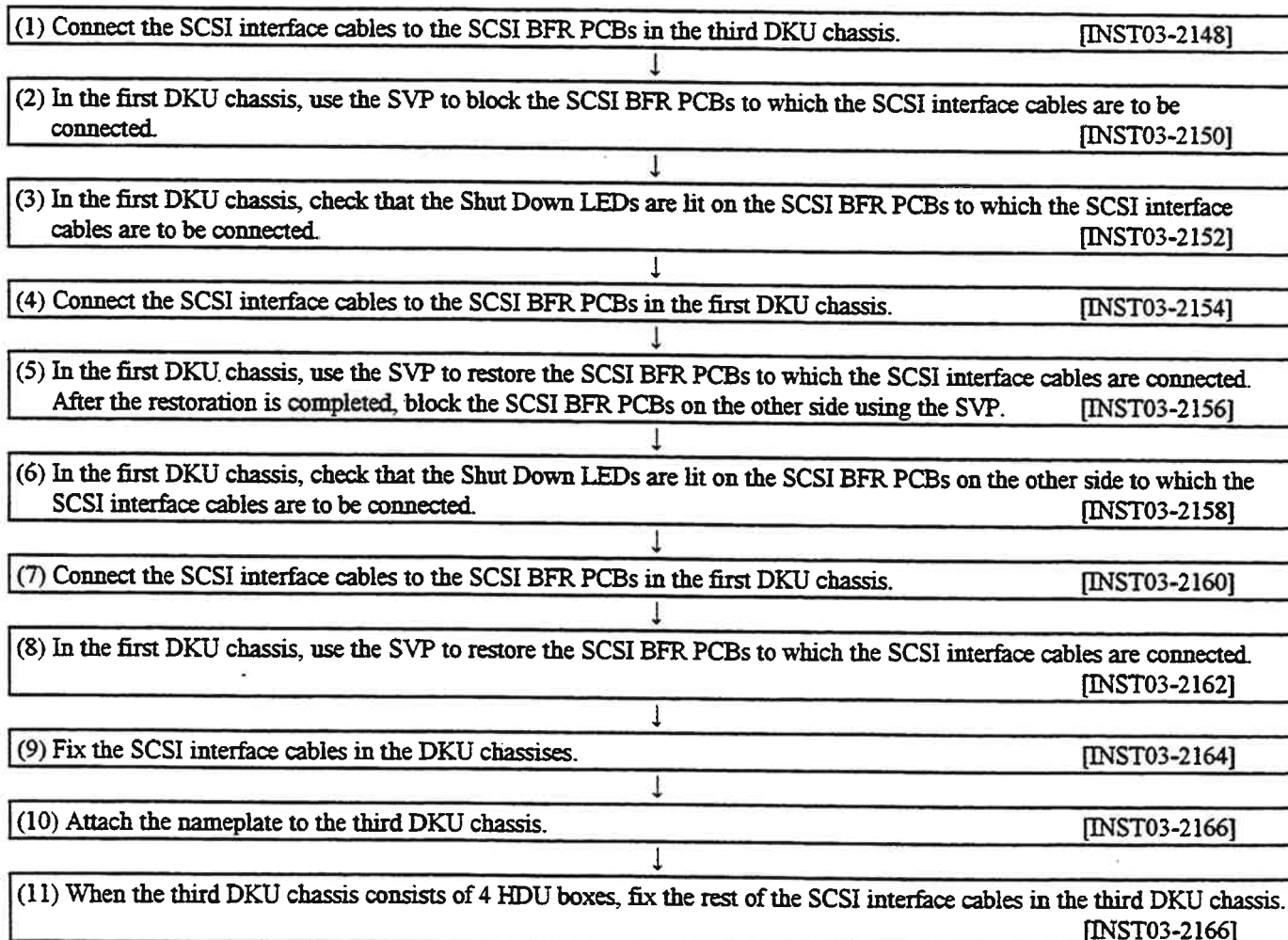
3.3.13.2.1 Flowchart

The connection procedure of the extension SCSI interface cables (DKU-F205I-34C) is shown below. You must perform the operations actually after referring to the details of the procedure.

When connecting the SCSI interface cable with disk subsystem inactive, you don't have to check Shut Down LED on the SCSI BFR PCB and blocking/restoring both DKA PCB and SCSI BFR PCB through SVP.

1. Connection Procedure of SCSI Interface Cables between First (HDU-R10-R13) and Third DKU (HDU-R20-R23) Chassis [INST03-2140]
2. Connection Procedure of SCSI Interface Cables between First (HDU-R14-R17) and Third DKU (HDU-R24-R27) Chassis [INST03-2142]
3. Connection Procedure of SCSI Interface Cables between Second (HDU-L10-L13) and Fourth DKU (HDU-L20-L23) Chassis [INST03-2144]
4. Connection Procedure of SCSI Interface Cables between Second (HDU-L14-L17) and Fourth DKU (HDU-L24-L27) Chassis [INST03-2146]

1. Connection Procedure of SCSI Interface Cables between First (HDU-R10-R13) and Third DKU (HDU-R20-R23) Chassis



2. Connection Procedure of SCSI Interface Cables between First (HDU-R14-R17) and Third DKU (HDU-R24-R27) Chassis

- | | |
|---|---------------|
| (1) Connect the SCSI interface cables to the SCSI BFR PCBs in the third DKU chassis. | [INST03-2168] |
| ↓ | |
| (2) In the first DKU chassis, use the SVP to block the SCSI BFR PCBs to which the SCSI interface cables are to be connected. | [INST03-2170] |
| ↓ | |
| (3) In the first DKU chassis, check that the Shut Down LEDs are lit on the SCSI BFR PCBs to which the SCSI interface cables are to be connected. | [INST03-2172] |
| ↓ | |
| (4) Connect the SCSI interface cables to the SCSI BFR PCBs in the first DKU chassis. | [INST03-2174] |
| ↓ | |
| (5) In the first DKU chassis, use the SVP to restore the SCSI BFR PCBs to which the SCSI interface cables are connected. After the restoration is completed, block the SCSI BFR PCBs on the other side using the SVP. | [INST03-2176] |
| ↓ | |
| (6) In the first DKU chassis, check that the Shut Down LEDs are lit on the SCSI BFR PCBs on the other side to which the SCSI interface cables are to be connected. | [INST03-2178] |
| ↓ | |
| (7) Connect the SCSI interface cables to the SCSI BFR PCBs in the first DKU chassis. | [INST03-2180] |
| ↓ | |
| (8) In the first DKU chassis, use the SVP to restore the SCSI BFR PCBs to which the SCSI interface cables are connected. | [INST03-2182] |
| ↓ | |
| (9) Fix the SCSI interface cables in the DKU chassis. | [INST03-2184] |

3. Connection Procedure of SCSI Interface Cables between Second (HDU-L10-L13) and Fourth DKU (HDU-L20-L23) Chassis

- | | |
|--|---------------|
| (1) Connect the SCSI interface cables to the SCSI BFR PCBs in the fourth DKU chassis. | [INST03-2186] |
| ↓ | |
| (2) In the second DKU chassis, use the SVP to block the SCSI BFR PCBs to which the SCSI interface cables are to be connected. | [INST03-2188] |
| ↓ | |
| (3) In the second DKU chassis, check that the Shut Down LEDs are lit on the SCSI BFR PCBs to which the SCSI interface cables are to be connected. | [INST03-2190] |
| ↓ | |
| (4) Connect the SCSI interface cables to the SCSI BFR PCBs in the second DKU chassis. | [INST03-2192] |
| ↓ | |
| (5) In the second DKU chassis, use the SVP to restore the SCSI BFR PCBs to which the SCSI interface cables are connected. After the restoration is completed, block the SCSI BFR PCBs on the other side using the SVP. | [INST03-2194] |
| ↓ | |
| (6) In the second DKU chassis, check that the Shut Down LEDs are lit on the SCSI BFR PCBs on the other side to which the SCSI interface cables are to be connected. | [INST03-2196] |
| ↓ | |
| (7) Connect the SCSI interface cables to the SCSI BFR PCBs in the second DKU chassis. | [INST03-2198] |
| ↓ | |
| (8) In the second DKU chassis, use the SVP to restore the SCSI BFR PCBs to which the SCSI interface cables are connected. | [INST03-2200] |
| ↓ | |
| (9) Fix the SCSI interface cables in the DKU chassis. | [INST03-2202] |
| ↓ | |
| (10) Attach the nameplate to the fourth DKU chassis. | [INST03-2204] |
| ↓ | |
| (11) When the fourth DKU chassis consists of 4 HDU boxes, fix the rest of the SCSI interface cables in the fourth DKU chassis. | [INST03-2204] |

4. Connection Procedure of SCSI Interface Cables between Second (HDU-L14-L17) and Fourth DKU (HDU-L24-L27) Chassis

(1) Connect the SCSI interface cables to the SCSI BFR PCBs in the fourth DKU chassis.	[INST03-2206]
↓	
(2) In the second DKU chassis, use the SVP to block the SCSI BFR PCBs to which the SCSI interface cables are to be connected.	[INST03-2208]
↓	
(3) In the second DKU chassis, check that the Shut Down LEDs are lit on the SCSI BFR PCBs to which the SCSI interface cables are to be connected.	[INST03-2210]
↓	
(4) Connect the SCSI interface cables to the SCSI BFR PCBs in the second DKU chassis.	[INST03-2212]
↓	
(5) In the second DKU chassis, use the SVP to restore the SCSI BFR PCBs to which the SCSI interface cables are connected. After the restoration is completed, block the SCSI BFR PCBs on the other side using the SVP.	[INST03-2214]
↓	
(6) In the second DKU chassis, check that the Shut Down LEDs are lit on the SCSI BFR PCBs on the other side to which the SCSI interface cables are to be connected.	[INST03-2216]
↓	
(7) Connect the SCSI interface cables to the SCSI BFR PCBs in the second DKU chassis.	[INST03-2218]
↓	
(8) In the second DKU chassis, use the SVP to restore the SCSI BFR PCBs to which the SCSI interface cables are connected.	[INST03-2220]
↓	
(9) Fix the SCSI interface cables in the DKU chassis.	[INST03-2222]

3.3.13.2.2 Parts List

Table 3.3.13.2.2-1 Parts List of the SCSI Interface Cable

No.	Model Number	Parts Name	Parts No. (Spare Parts No.)	Quantity	Remarks
1	DKU-F205I-34C	SCSI Interface Cable	2098192-A-R (5487067-A-R)	16	HDU-R20-R27/L20-L27
		DKUMN Cable	3239256-A,B	2	Dynamic 6
		DKUMN Cable	2098190-A,B	2	MRP 100
		Nameplate	2099650-5	1	34C

3.3.13.2.3 Connection Procedure of Additional SCSI Interface Cables(In case of HDU-R23 from R20)

1. Connect the SCSI interface cables to the SCSI BFR PCBs in the third DKU chassis referring to figures 3.3.13.2.3-1 and 3.3.13.2.3-2.

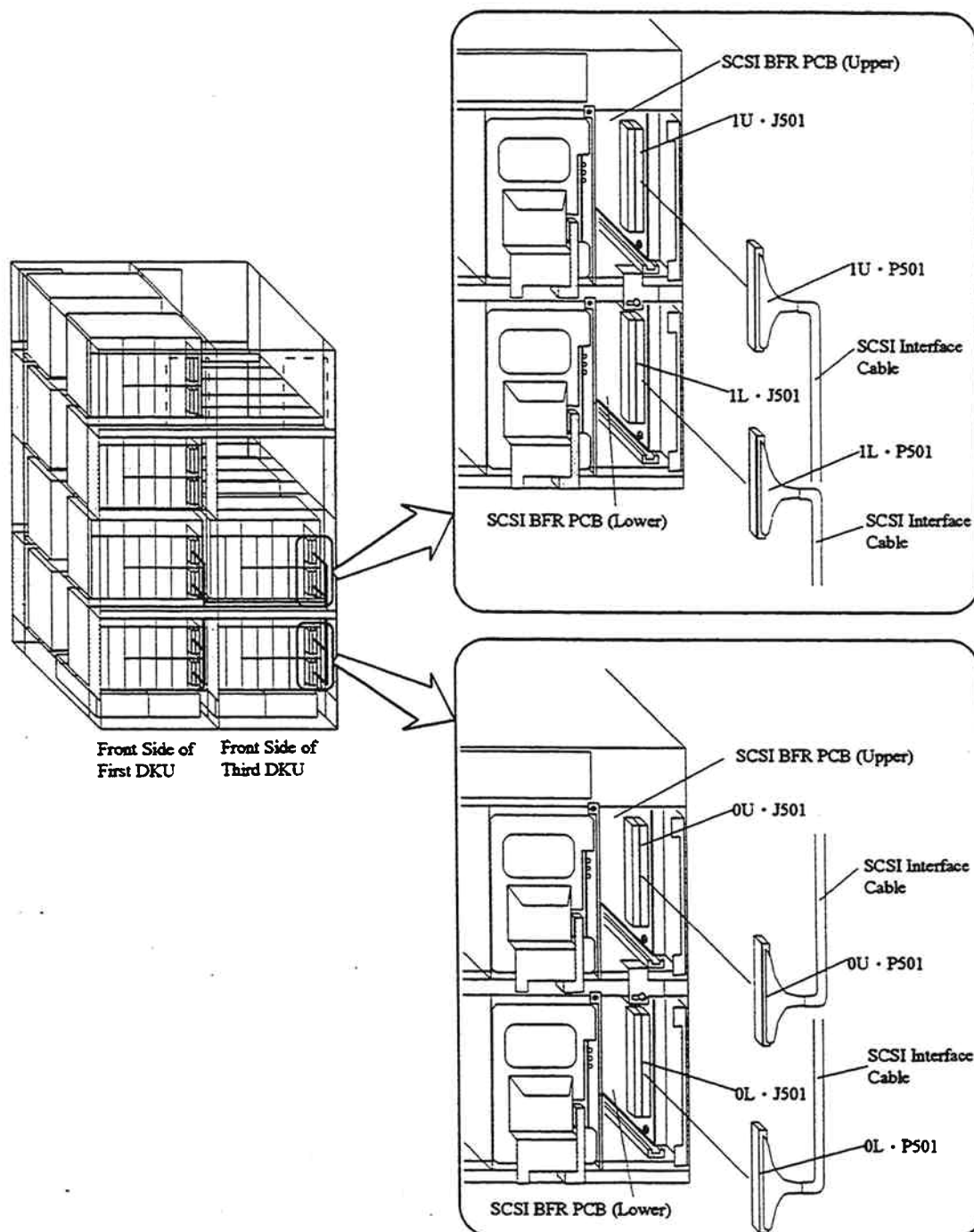


Fig. 3.3.13.2.3-1 Connection of the SCSI Interface Cables

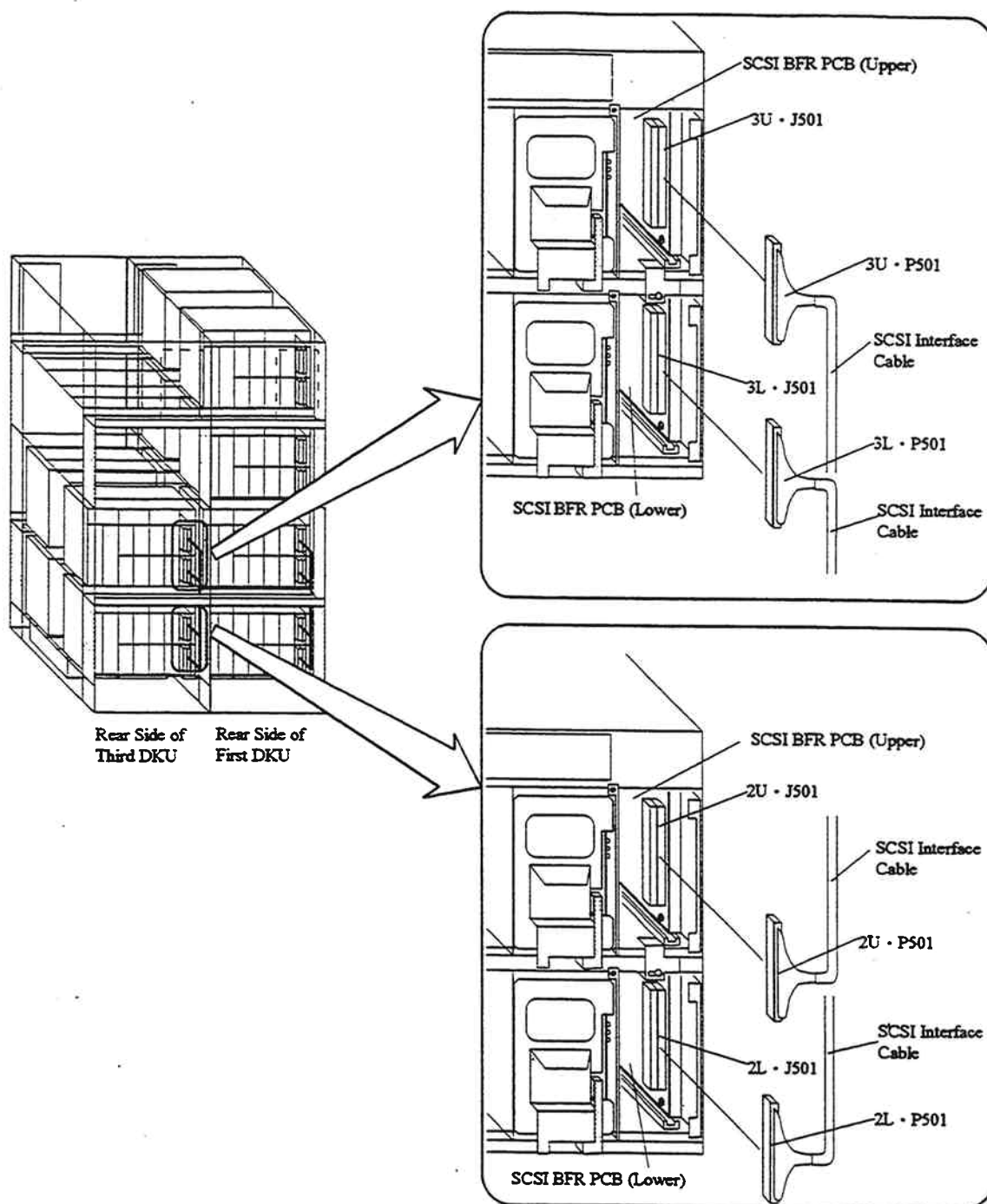


Fig. 3.3.13.2.3-2 Connection of the SCSI Interface Cables

- Refer to INST02-56② when connecting the additional SCSI interface cable while the sub-system is in operation. Refer to INST03-2154 when connecting the additional SCSI interface cable with the sub-system switched off.

3. In the first DKU chassis, check that the Shut Down LEDs are lit on the SCSI BFR PCBs to which the SCSI interface cables are to be connected.

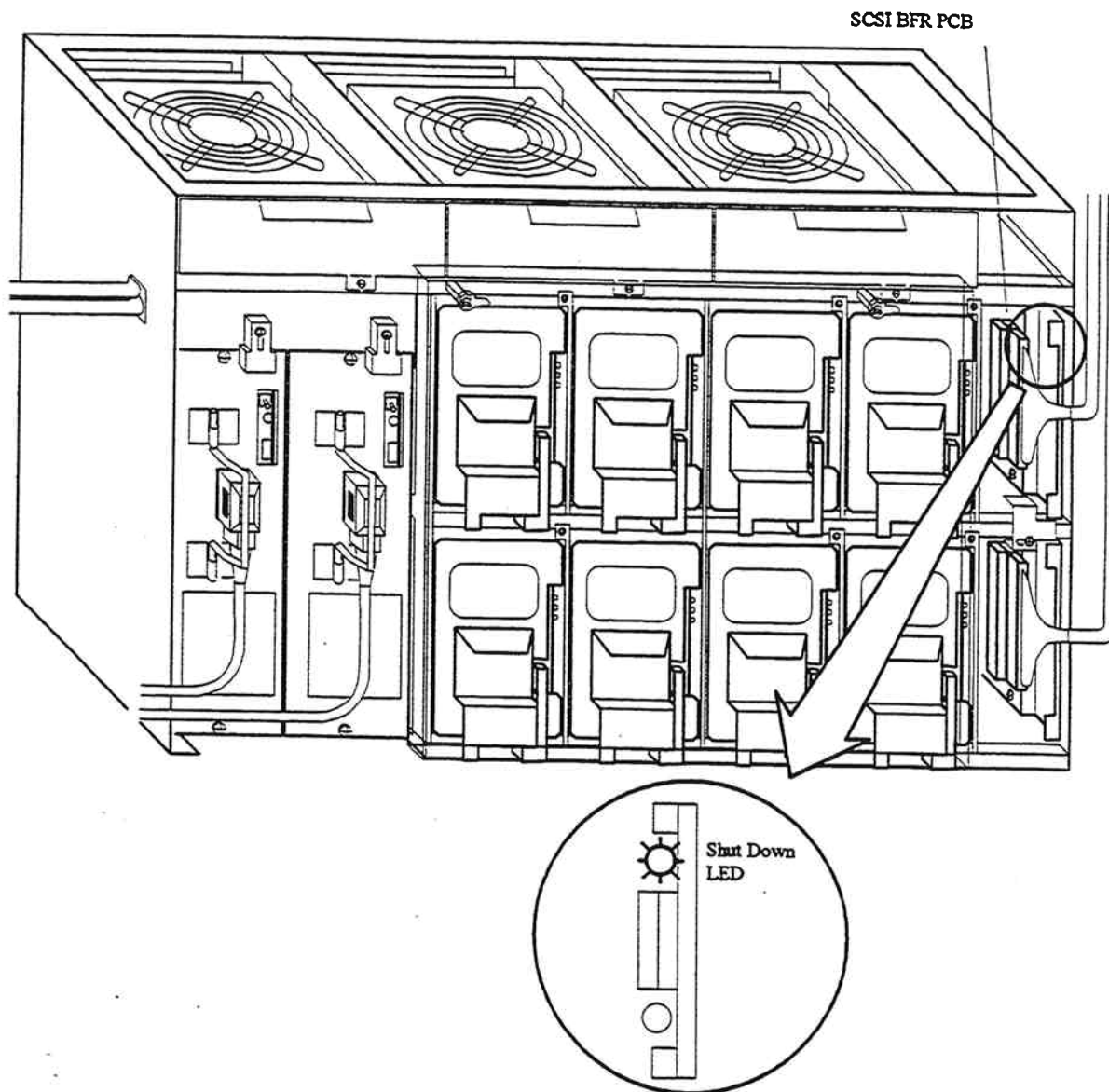


Fig. 3.3.13.2.3-3 Confirmation of the Shut Down LED Light

4. Connect the SCSI interface cables to the SCSI BFR PCBs in the first DKU chassis referring to figures 3.3.13.2.3-4 and 3.3.13.2.3-5.

Notice

When connecting the SCSI interface extension cable (DKU-F205I-34C) during the operation of subsystem, take the following actions from SVP to allow connection of only the SCSI interface cable whose Shut Down LED goes on.

1. Block the SCSI bus connecting the SCSI interface cable.
2. Light the Shut Down LED on the SCSI BFR PCB on the SCSI bus.

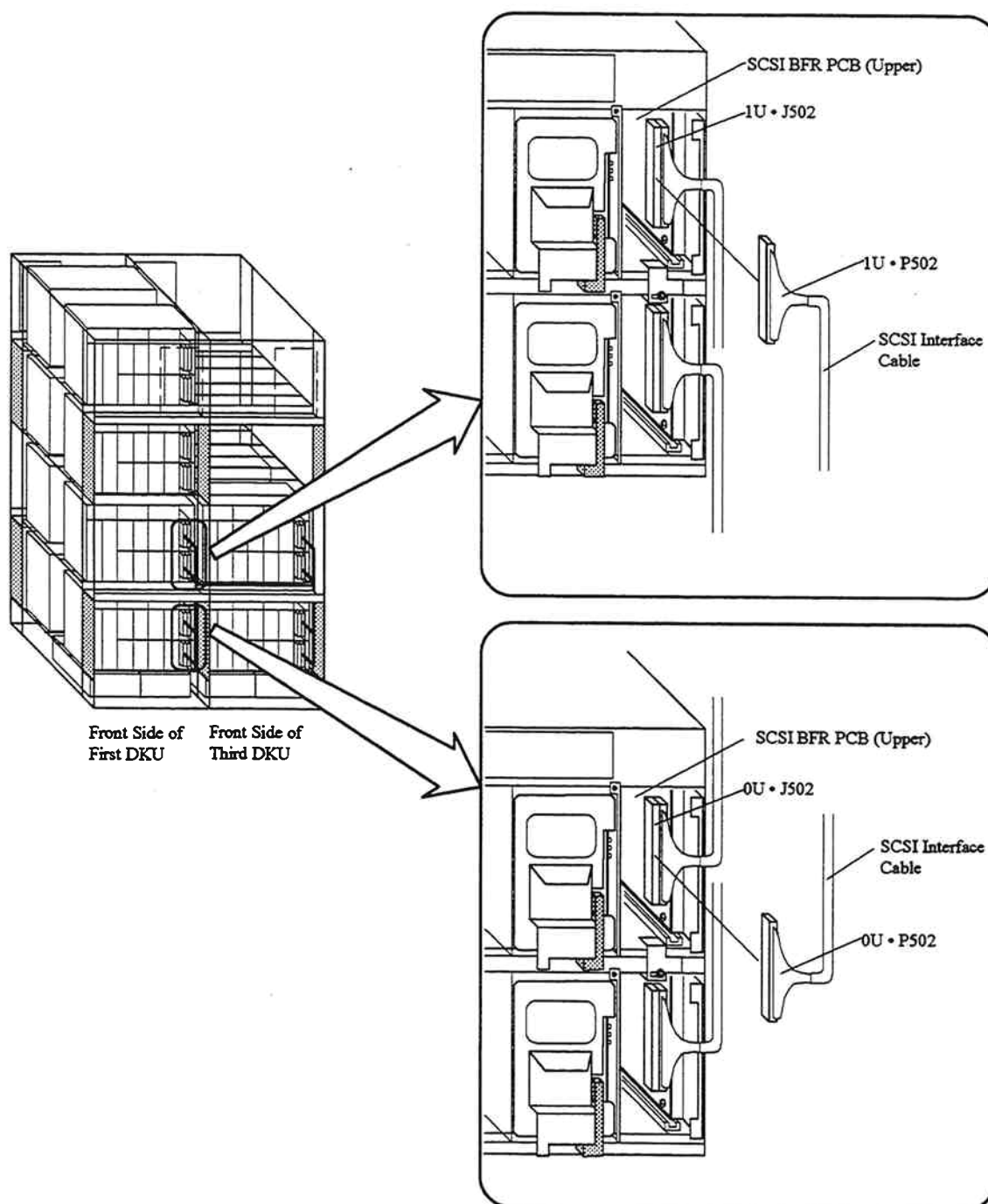


Fig. 3.3.13.2.3-4 Connection of the SCSI Interface Cables

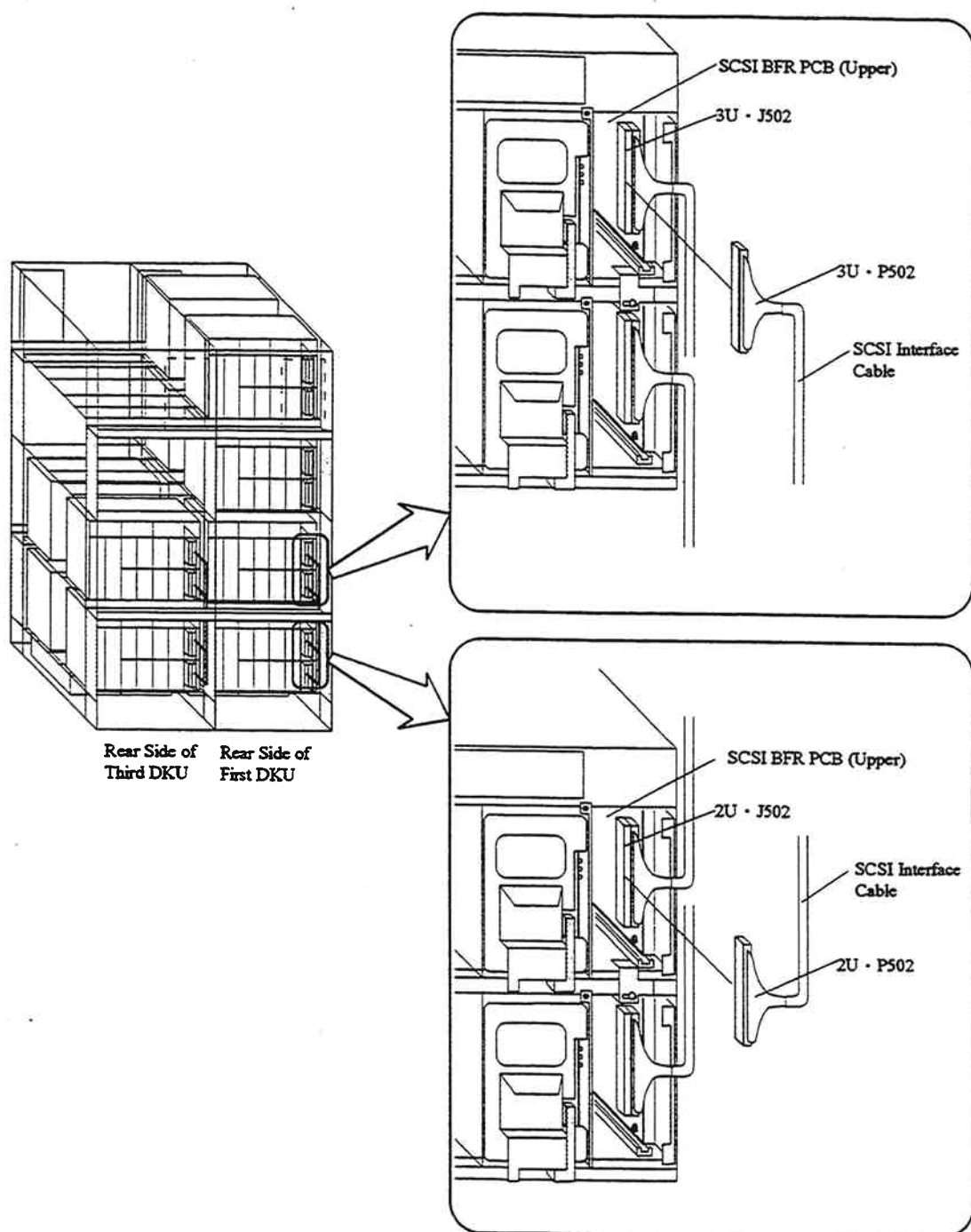


Fig. 3.3.13.2.3-5 Connection of the SCSI Interface Cables

5. Refer to INST02-57④ when connecting the additional SCSI interface cable while the sub-system is in operation. Refer to INST03-2160 when connecting the additional SCSI interface cable with the sub-system switched off.

6. In the first DKU chassis, check that the Shut Down LEDs are lit on the SCSI BFR PCBs to which the SCSI interface cables are to be connected.

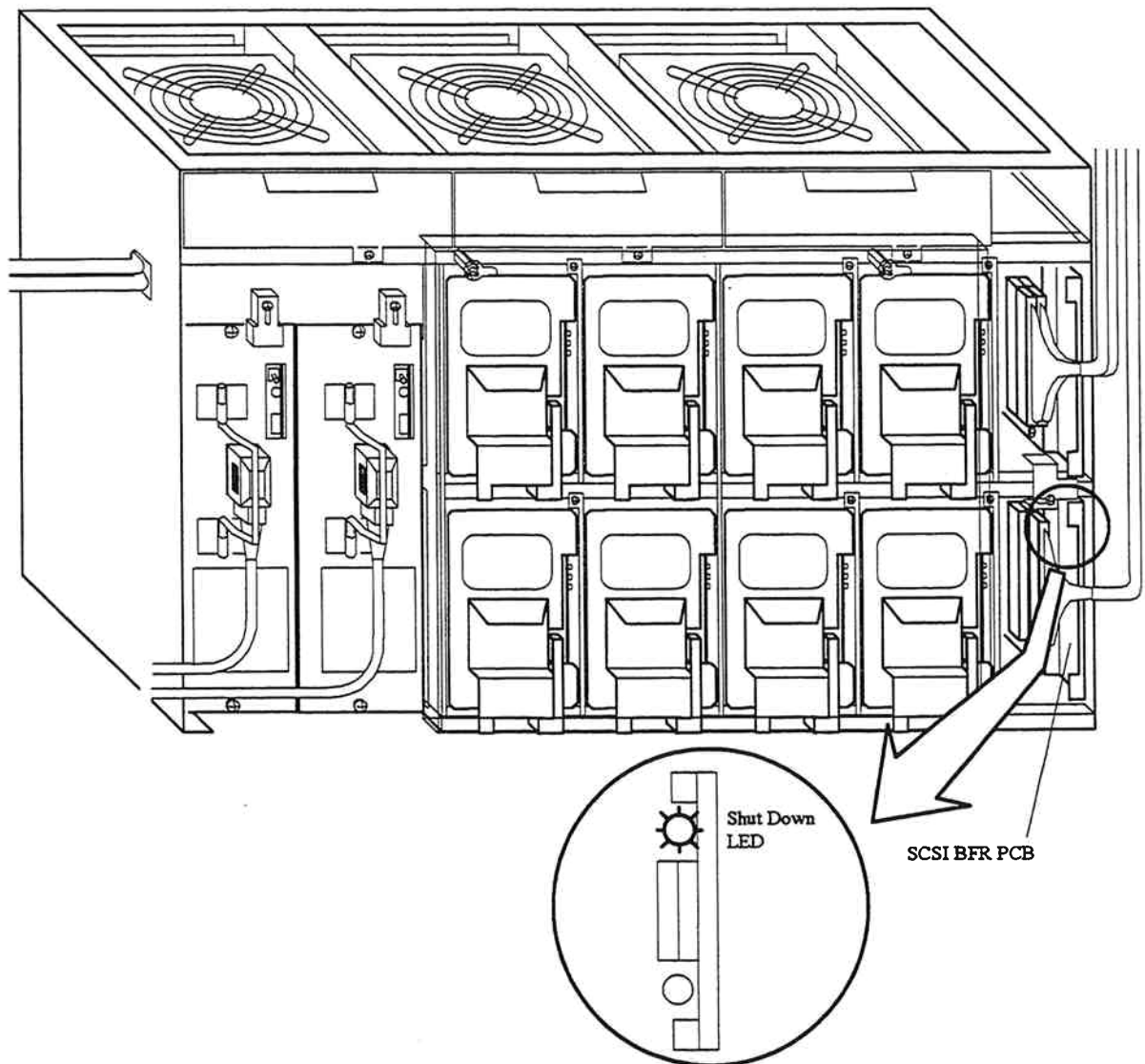


Fig. 3.3.13.2.3-6 Confirmation of the Shut Down LED Light

7. Connect the SCSI interface cables to the SCSI BFR PCBs in the first DKU chassis referring to figures 3.3.13.2.3-7 and 3.3.13.2.3-8.

Notice

When connecting the SCSI interface extension cable (DKU-F205I-34C) during the operation of subsystem, take the following actions from SVP to allow connection of only the SCSI interface cable whose Shut Down LED goes on.

1. Block the SCSI bus connecting the SCSI interface cable.
2. Light the Shut Down LED on the SCSI BFR PCB on the SCSI bus.

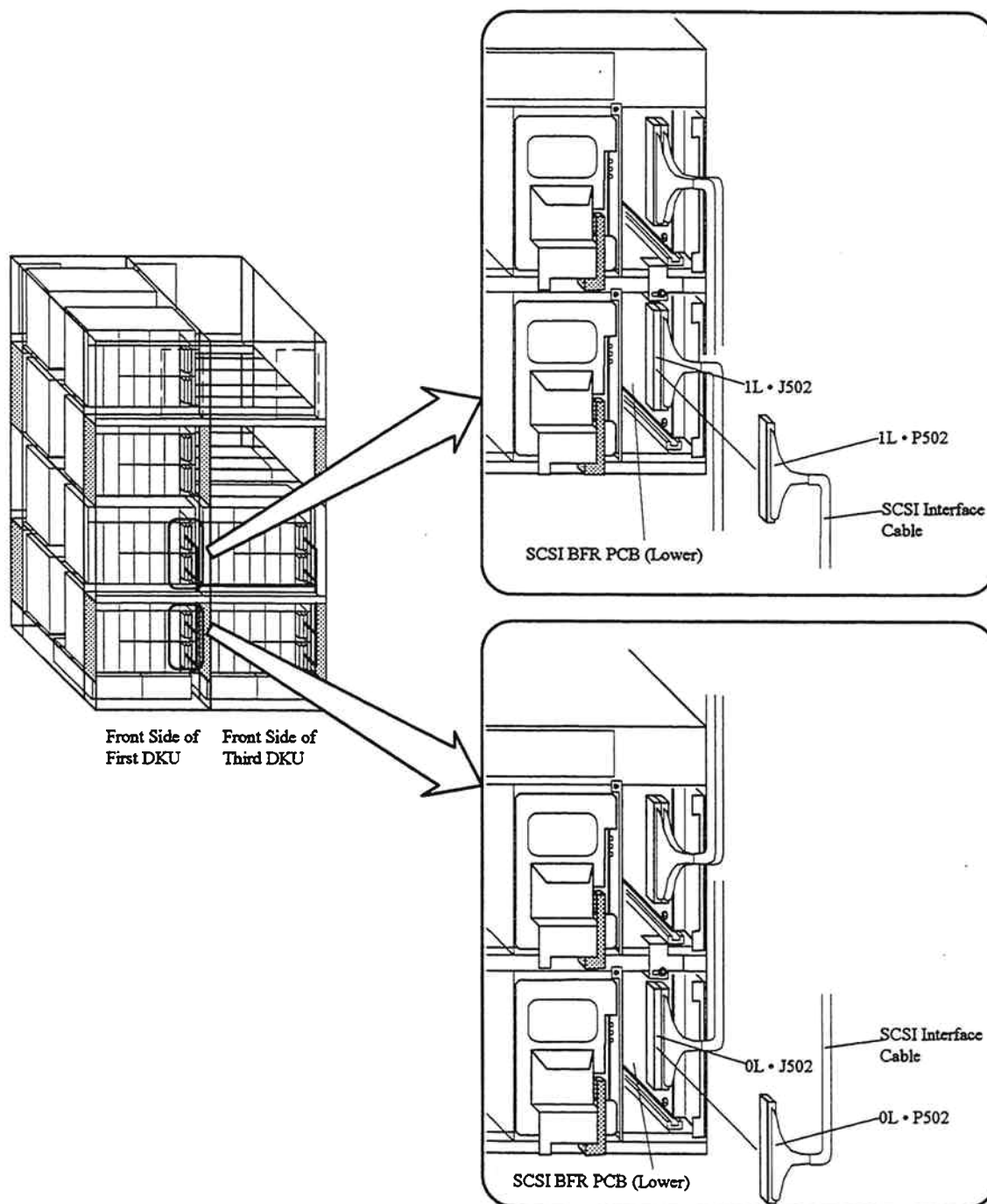


Fig. 3.3.13.2.3-7 Connection of the SCSI Interface Cables

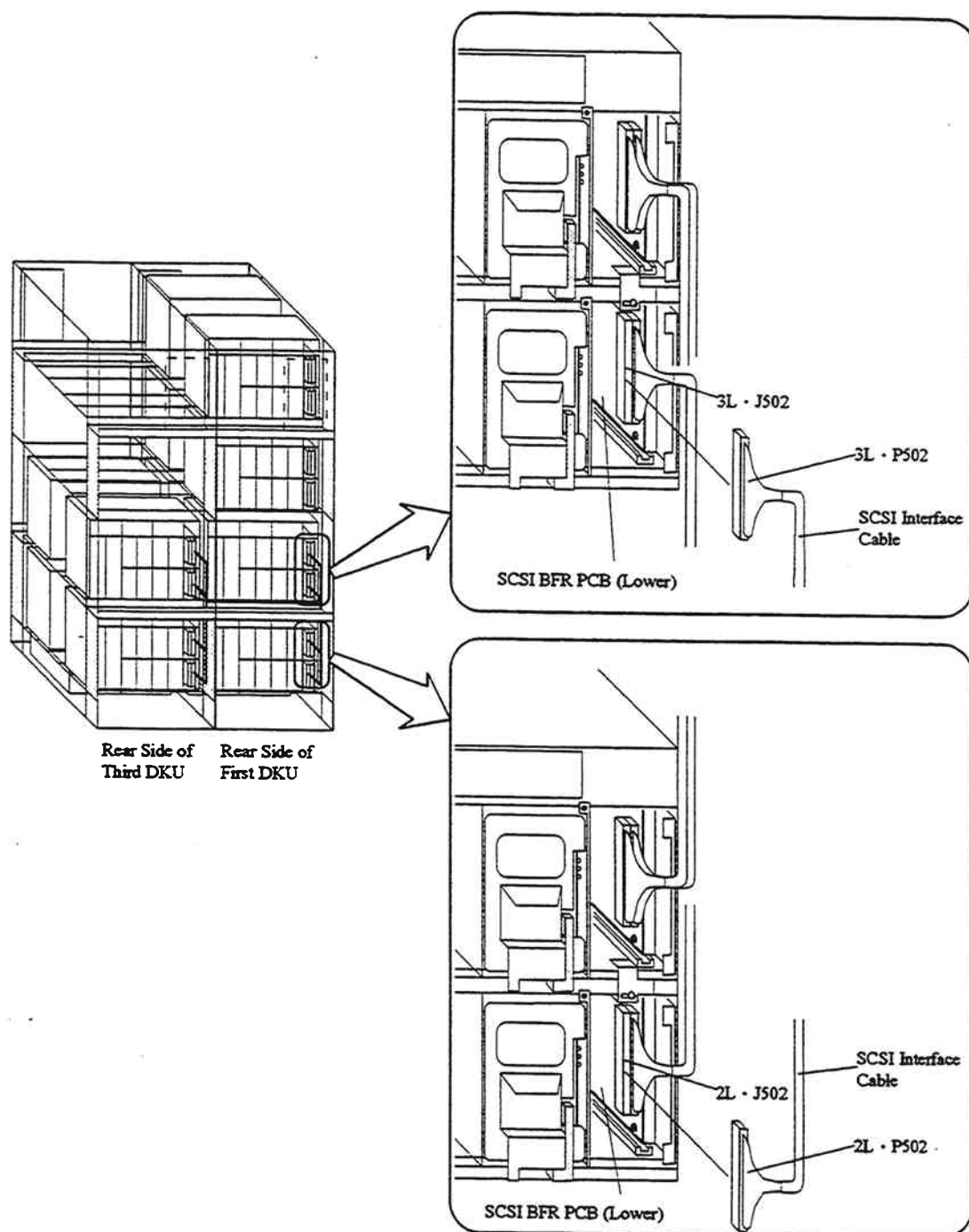


Fig. 3.3.13.2.3-8 Connection of the SCSI Interface Cables

8. Refer to INST02-57© when connecting the additional SCSI interface cable while the sub-system is in operation. Refer to INST03-2164 when connecting the additional SCSI interface cable with the sub-system switched off.

9. Fix the SCSI interface cables in the DKU chassis with the cable fixing wires and repeat binders.

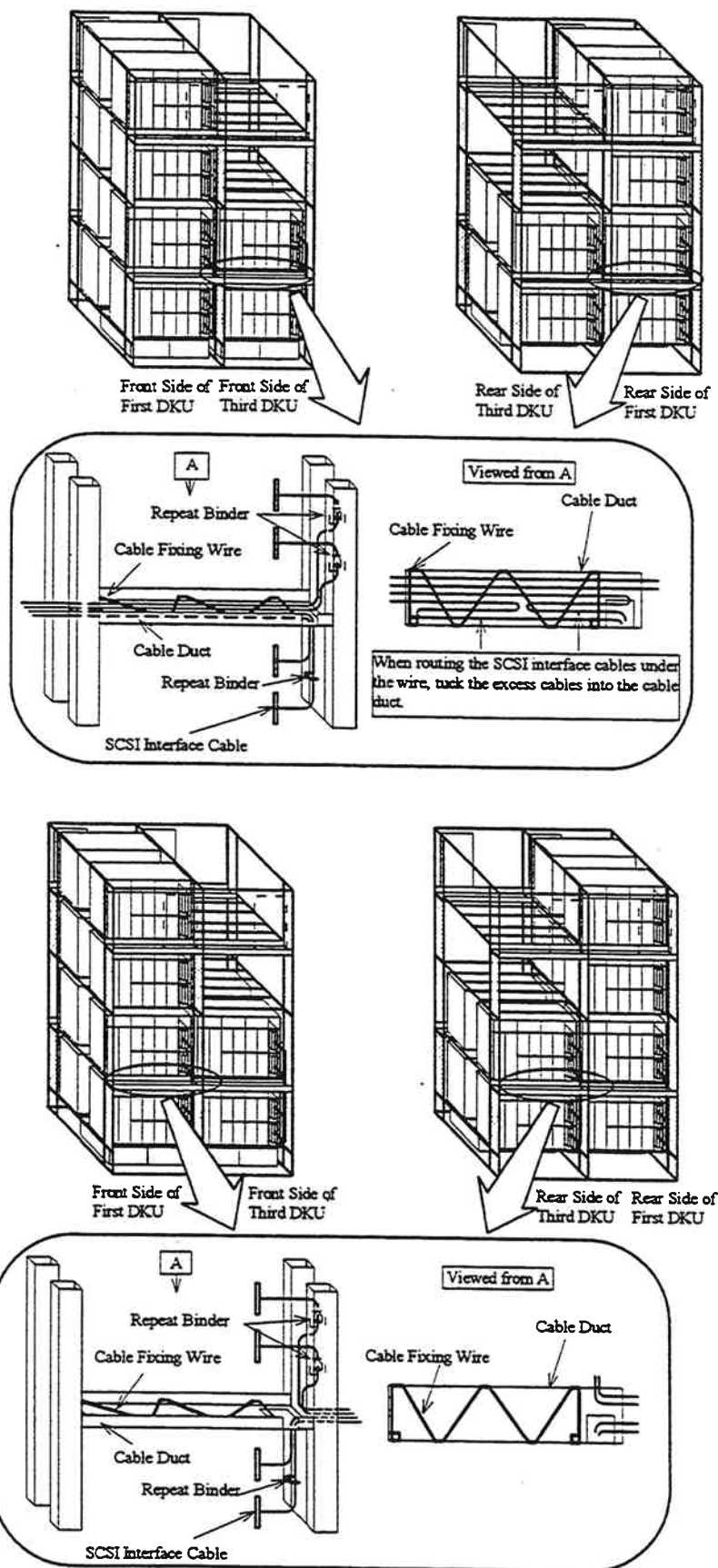


Fig. 3.3.13.2.3-9 Fixation of the SCSI Interface Cables

10. Attach the nameplate to the third DKU chassis.

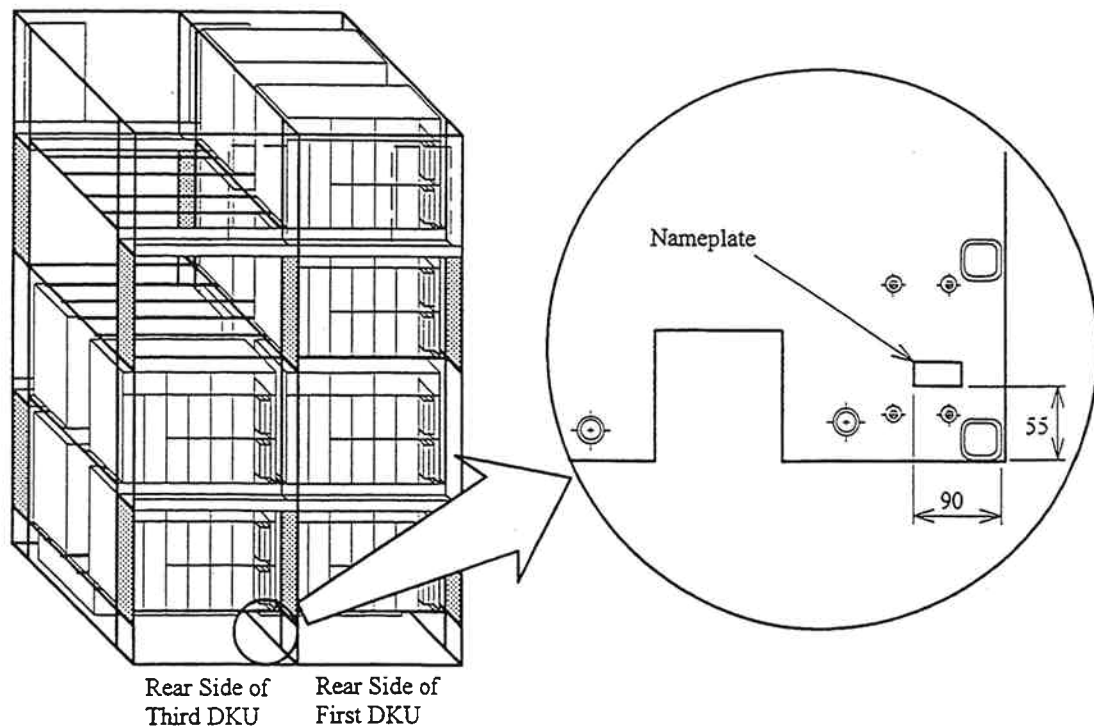


Fig. 3.3.13.2.3-10 Attachment of the Nameplate

11. When the third DKU chassis consists of 4 HDU boxes, fix the rest of the SCSI interface cables in the third DKU chassis with the binders.

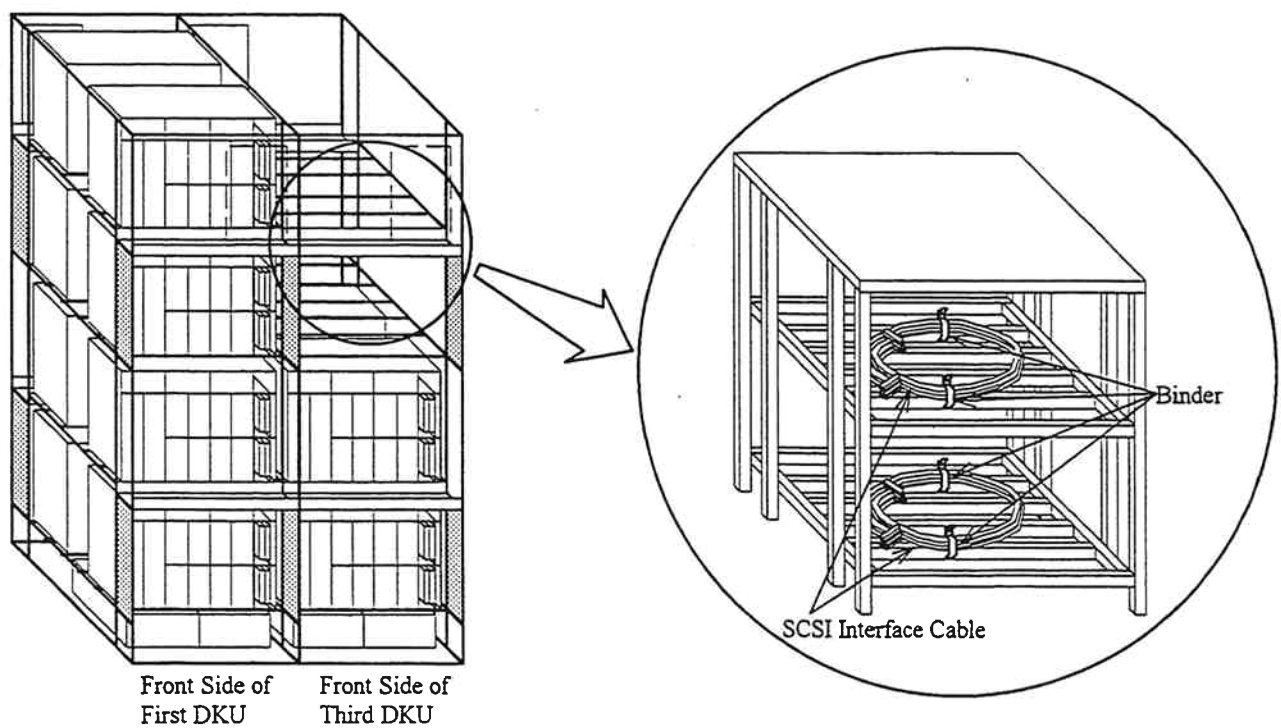


Fig. 3.3.13.2.3-11 Fixation of the SCSI Interface Cables

12. Go to INST02-57 Step ③.

3.3.13.2.4 Connection Procedure of Additional SCSI Interface Cables(In case of HDU-R27 from R24)

1. Connect the SCSI interface cables to the SCSI BFR PCBs in the third DKU chassis referring to figures 3.3.13.2.4-1 and 3.3.13.2.4-2.

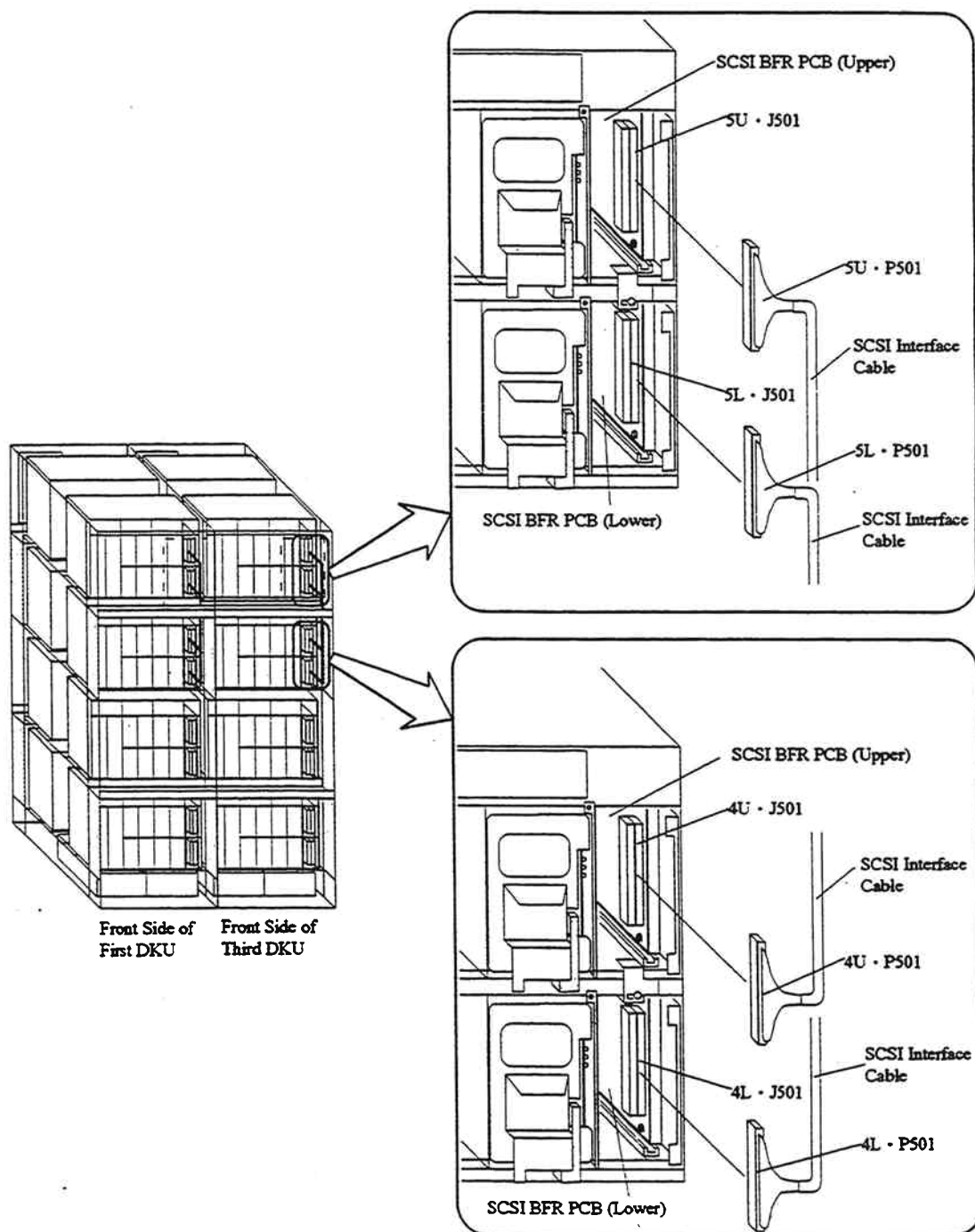


Fig. 3.3.13.2.4-1 Connection of the SCSI Interface Cables

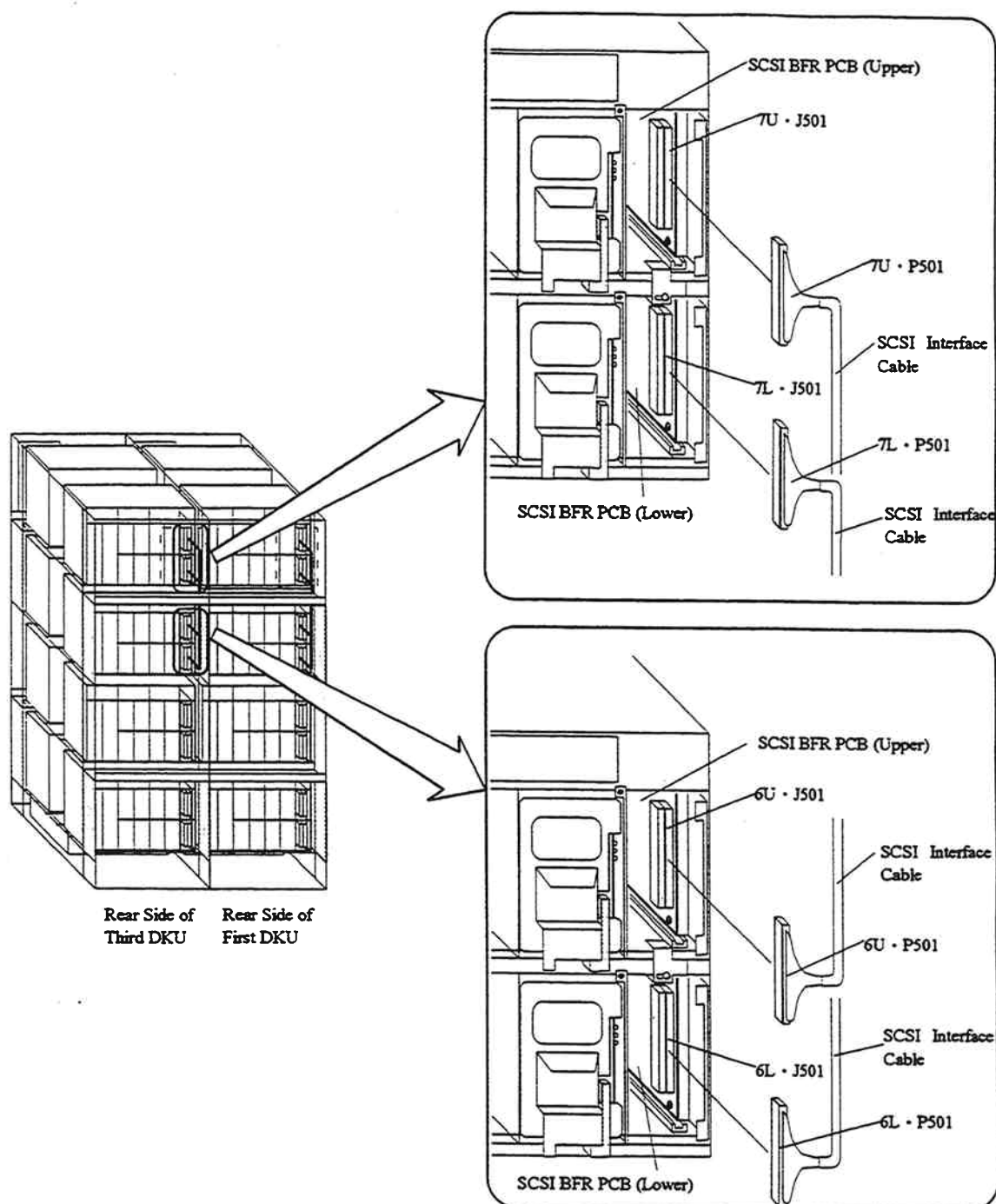


Fig. 3.3.13.2.4-2 Connection of the SCSI Interface Cables

2. Refer to INST02-56② when connecting the additional SCSI interface cable while the sub-system is in operation. Refer to INST03-2174 when connecting the additional SCSI interface cable with the sub-system switched off.

3. In the first DKU chassis, check that the Shut Down LEDs are lit on the SCSI BFR PCBs to which the SCSI interface cables are to be connected.

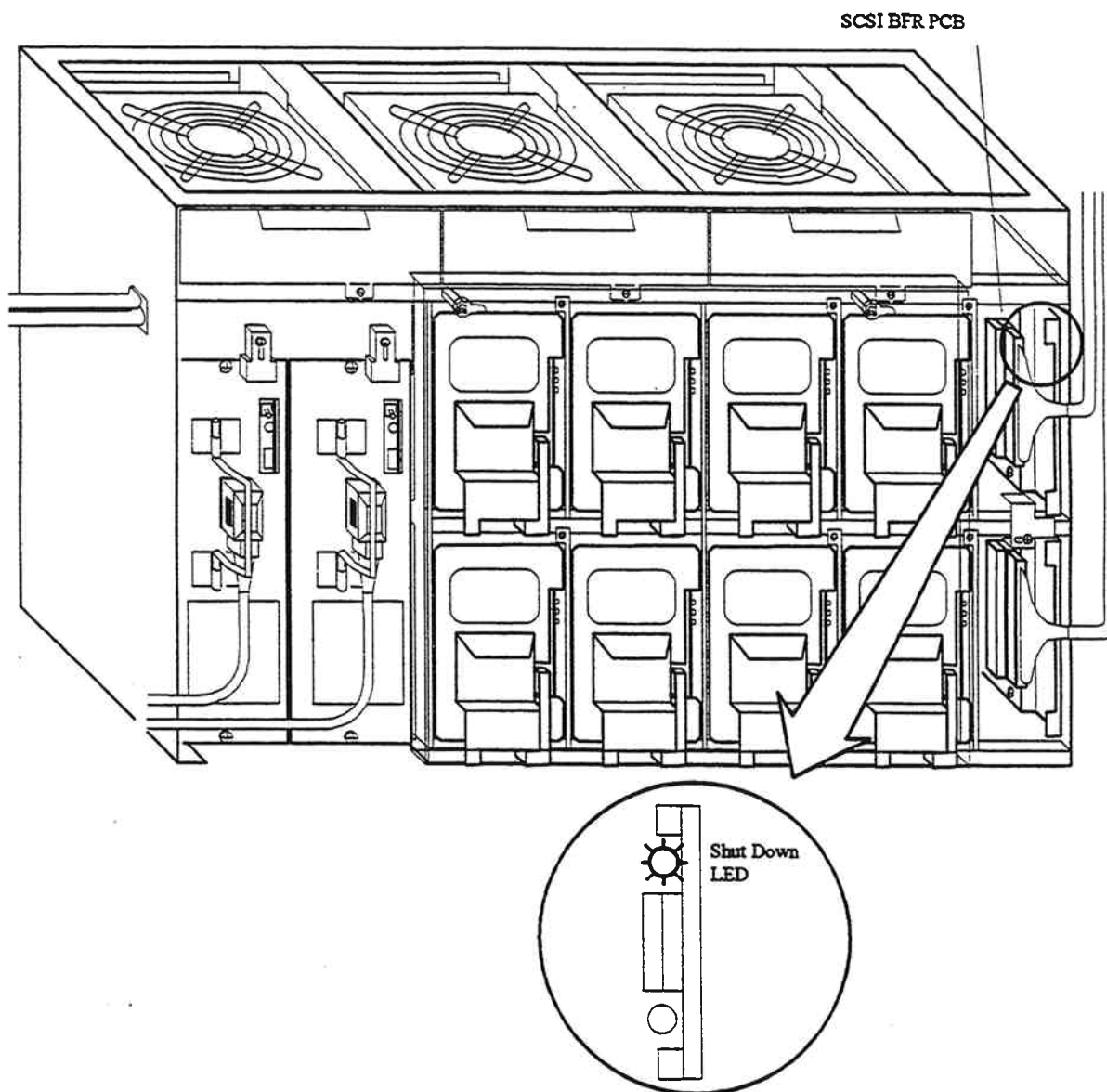


Fig. 3.3.13.2.4-3 Confirmation of the Shut Down LED Light

4. Connect the SCSI interface cables to the SCSI BFR PCBs in the first DKU chassis referring to figures 3.3.13.2.4-4 and 3.3.13.2.4-5.

Notice

When connecting the SCSI interface extension cable (DKU-F205I-34C) during the operation of subsystem, take the following actions from SVP to allow connection of only the SCSI interface cable whose Shut Down LED goes on.

1. Block the SCSI bus connecting the SCSI interface cable.
2. Light the Shut Down LED on the SCSI BFR PCB on the SCSI bus.

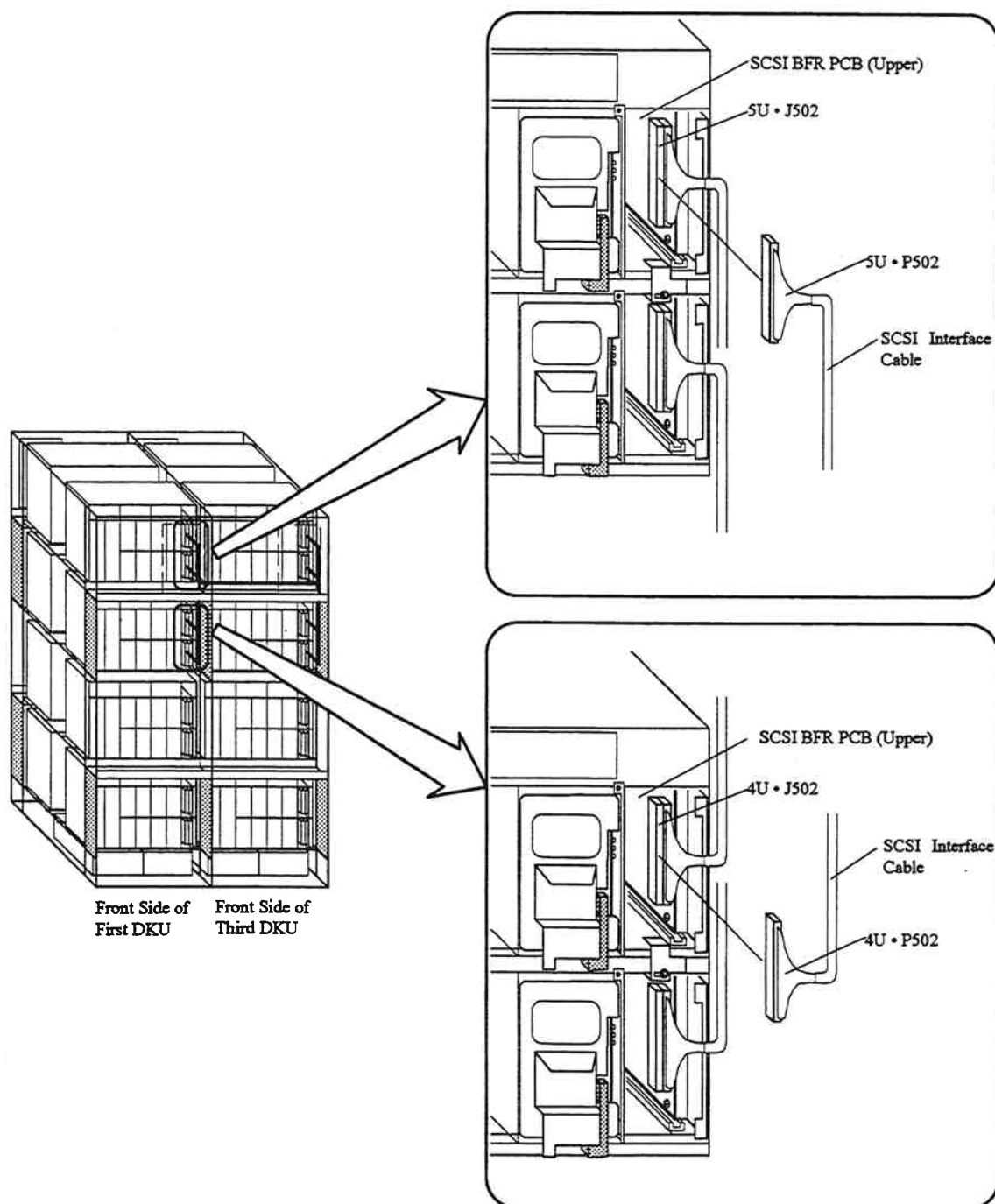


Fig. 3.3.13.2.4-4 Connection of the SCSI Interface Cables

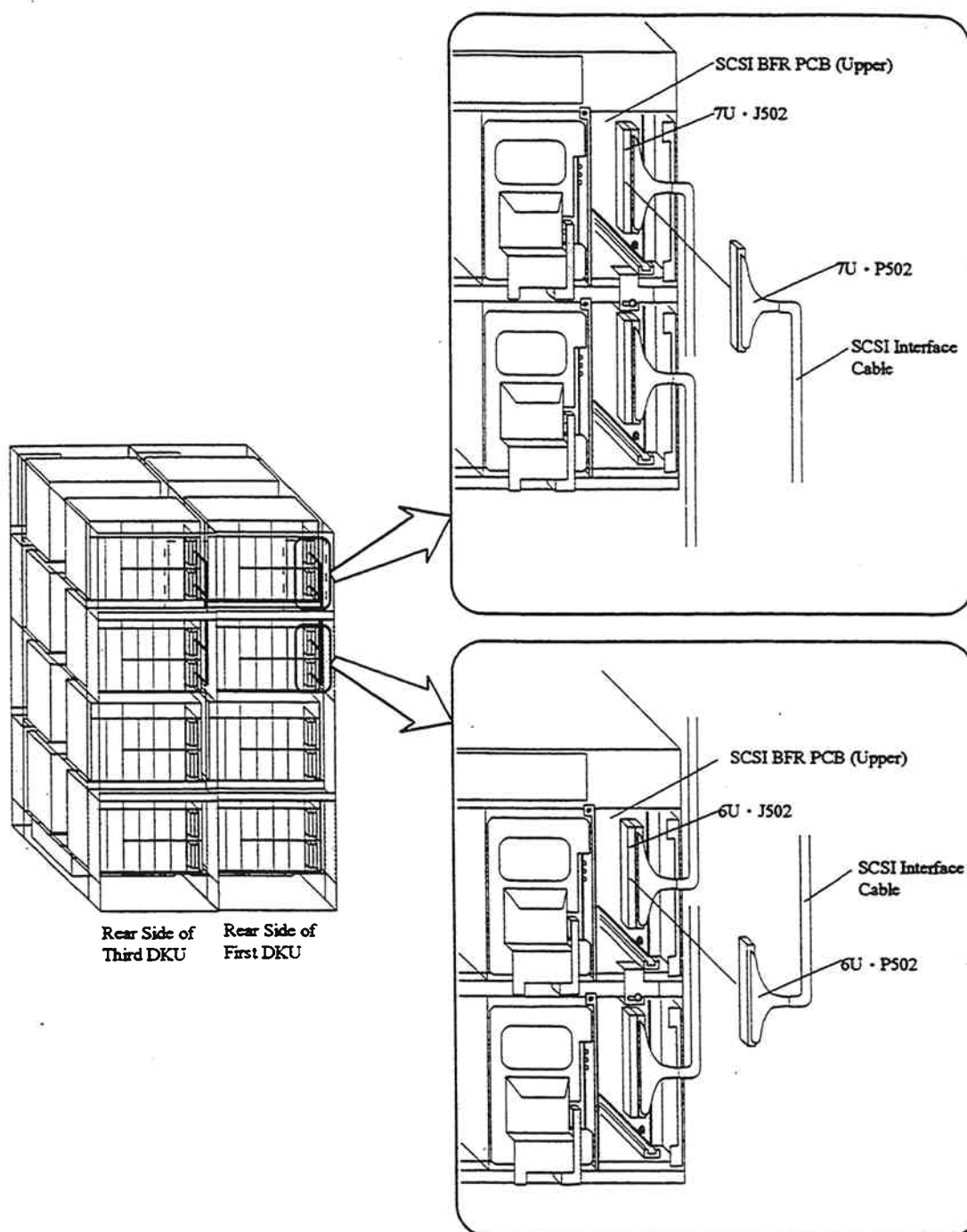


Fig. 3.3.13.2.4-5 Connection of the SCSI Interface Cables

5. Refer to INST02-57④ when connecting the additional SCSI interface cable while the sub-system is in operation. Refer to INST03-2180 when connecting the additional SCSI interface cable with the sub-system switched off.

6. In the first DKU chassis, check that the Shut Down LEDs are lit on the SCSI BFR PCBs to which the SCSI interface cables are to be connected.

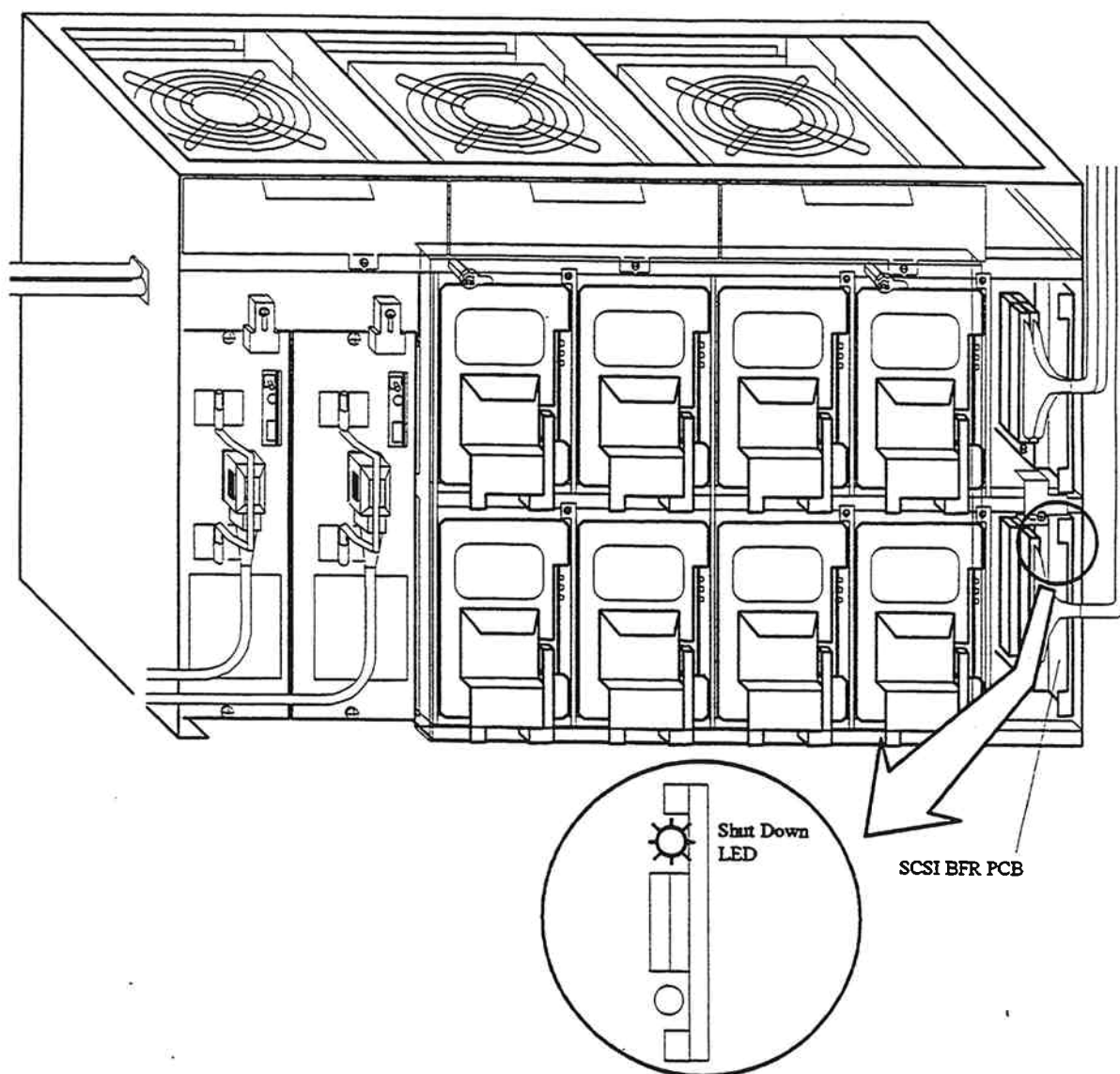


Fig. 3.3.13.2.4-6 Confirmation of the Shut Down LED Light

7. Connect the SCSI interface cables to the SCSI BFR PCBs in the first DKU chassis referring to figures 3.3.13.2.4-7 and 3.3.13.2.4-8.

Notice

When connecting the SCSI interface extension cable (DKU-F205I-34C) during the operation of subsystem, take the following actions from SVP to allow connection of only the SCSI interface cable whose Shut Down LED goes on.

1. Block the SCSI bus connecting the SCSI interface cable.
2. Light the Shut Down LED on the SCSI BFR PCB on the SCSI bus.

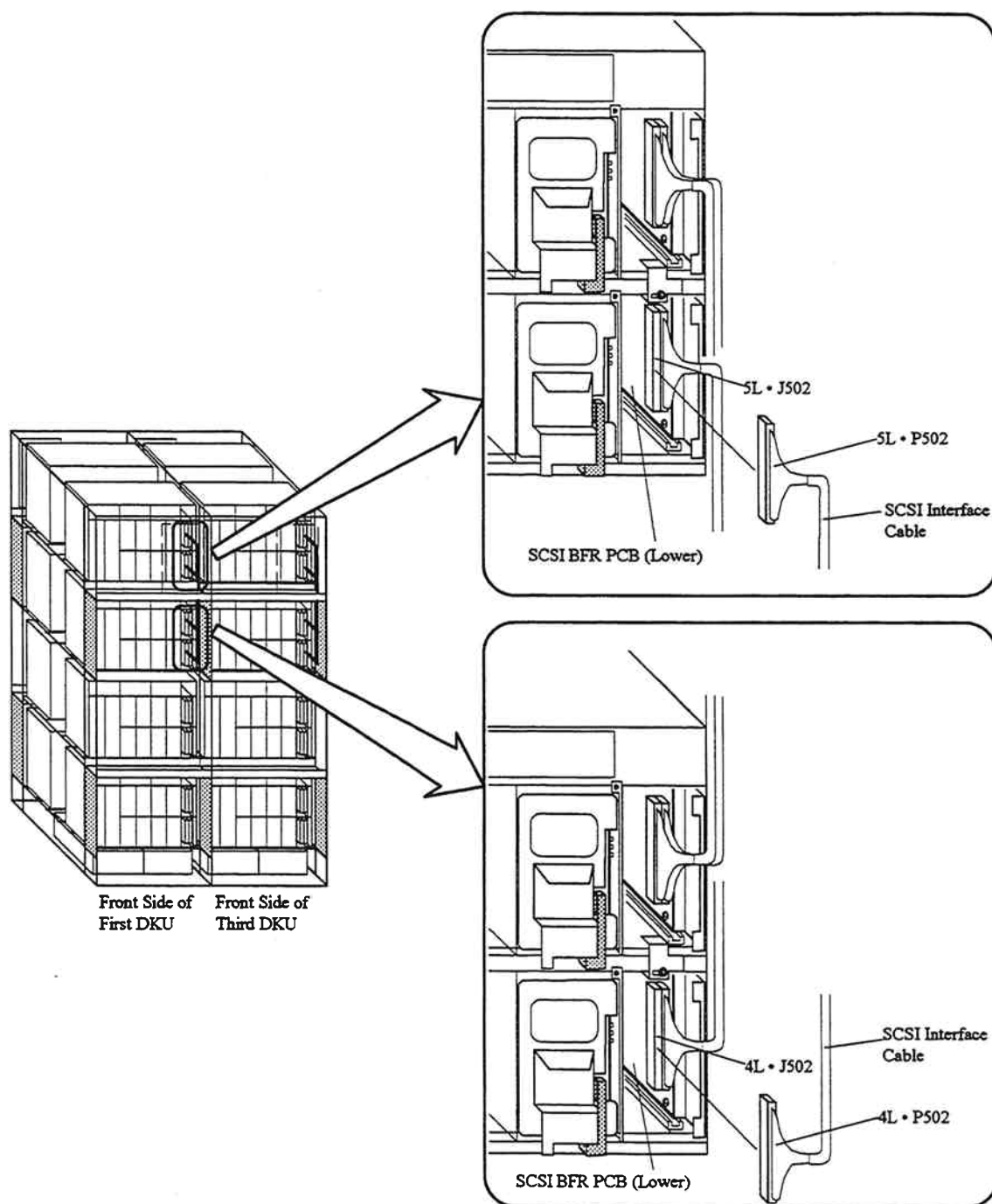


Fig. 3.3.13.2.4-7 Connection of the SCSI Interface Cables

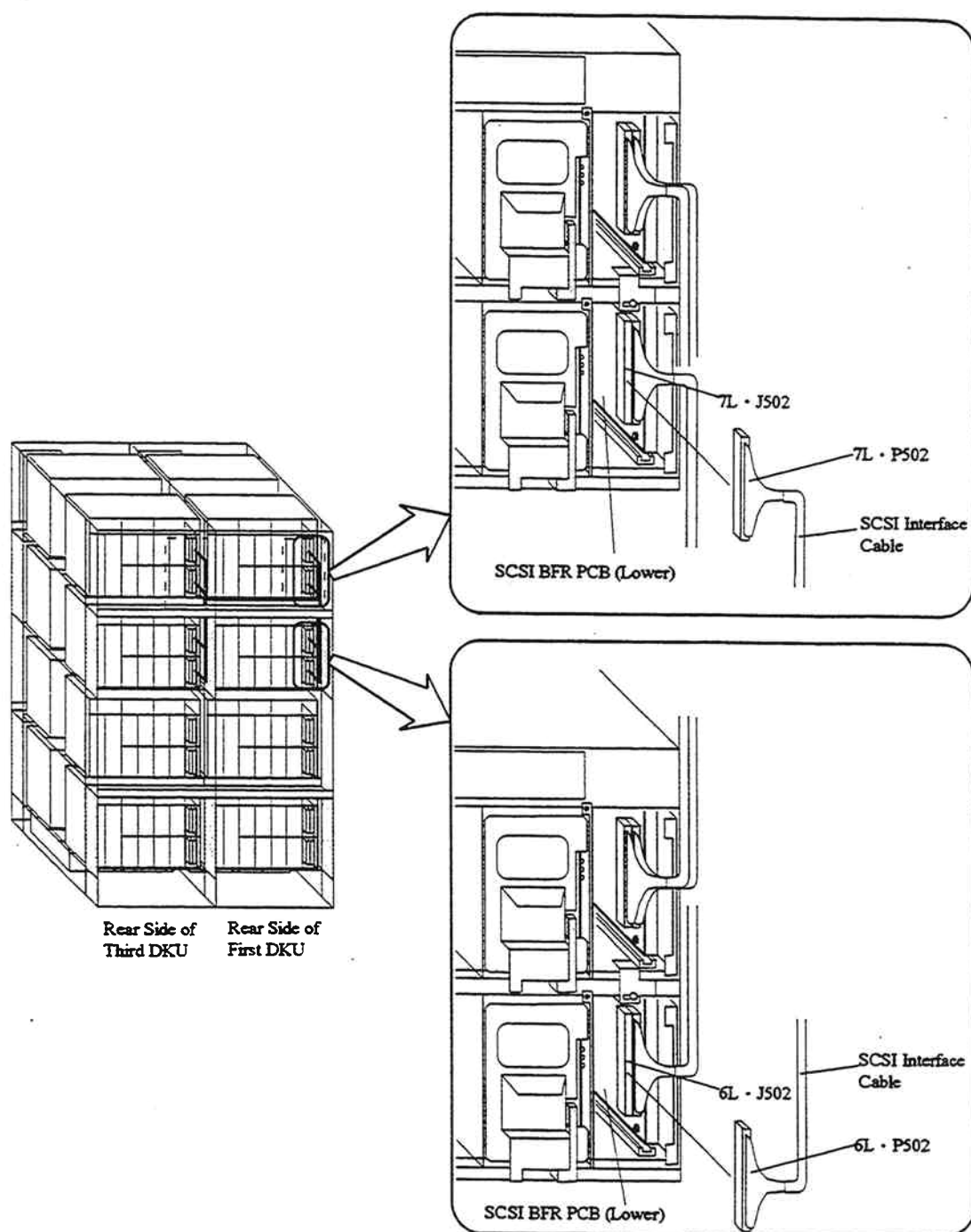


Fig. 3.3.13.2.4-8 Connection of the SCSI Interface Cables

8. Refer to INST02-57© when connecting the additional SCSI interface cable while the sub-system is in operation. Refer to INST03-2184 when connecting the additional SCSI interface cable with the sub-system switched off.

9. Fix the SCSI interface cables in the DKU chassis with the cable fixing wires and repeat binders.

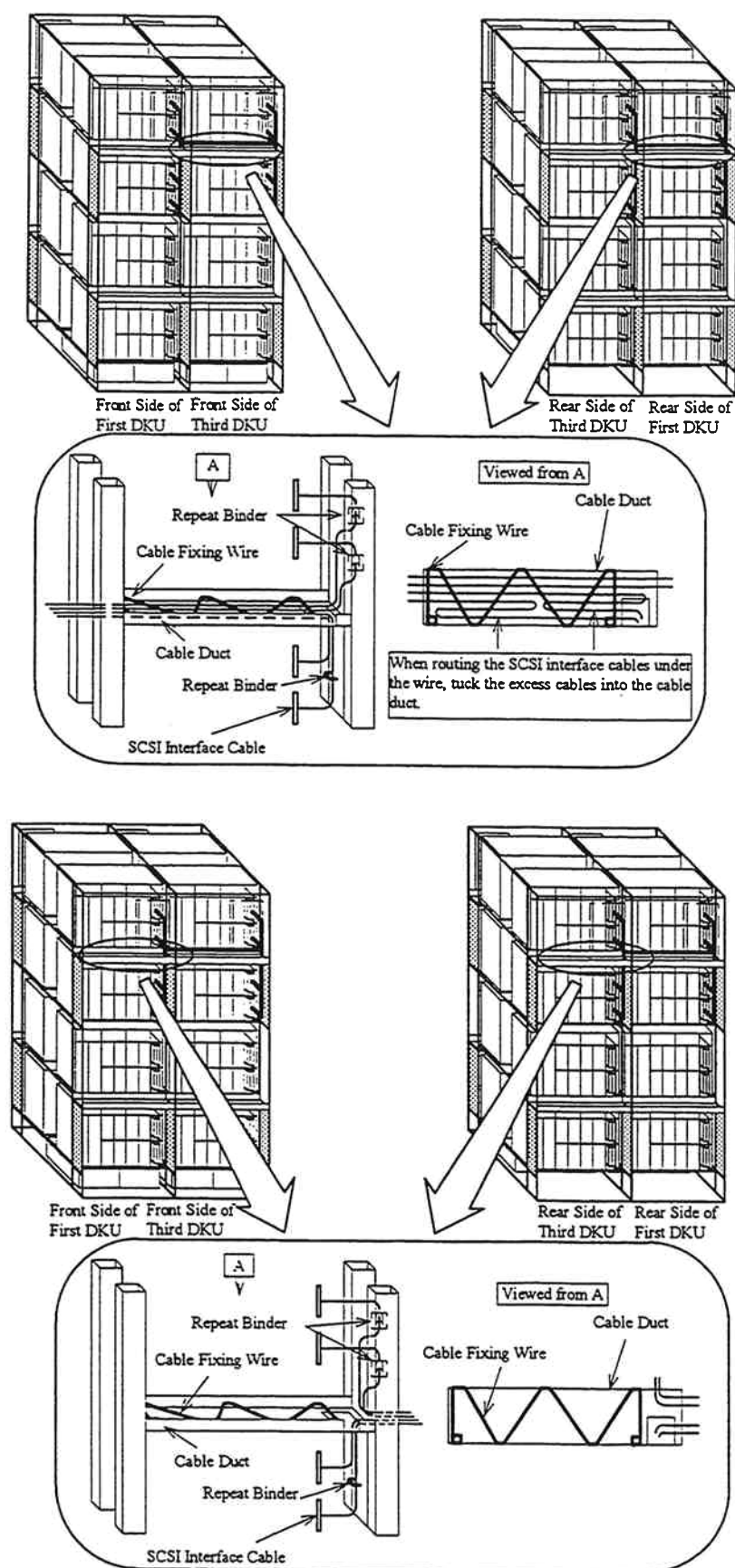


Fig. 3.3.13.2.4-9 Fixation of the SCSI Interface Cables

10. Go to INST02-57 Step ⑧.

3.3.13.2.5 Connection Procedure of Additional SCSI Interface Cables (In case of HDU-L23 from L20)

1. Connect the SCSI interface cables to the SCSI BFR PCBs in the fourth DKU chassis referring to figures 3.3.13.2.5-1 and 3.3.13.2.5-2.

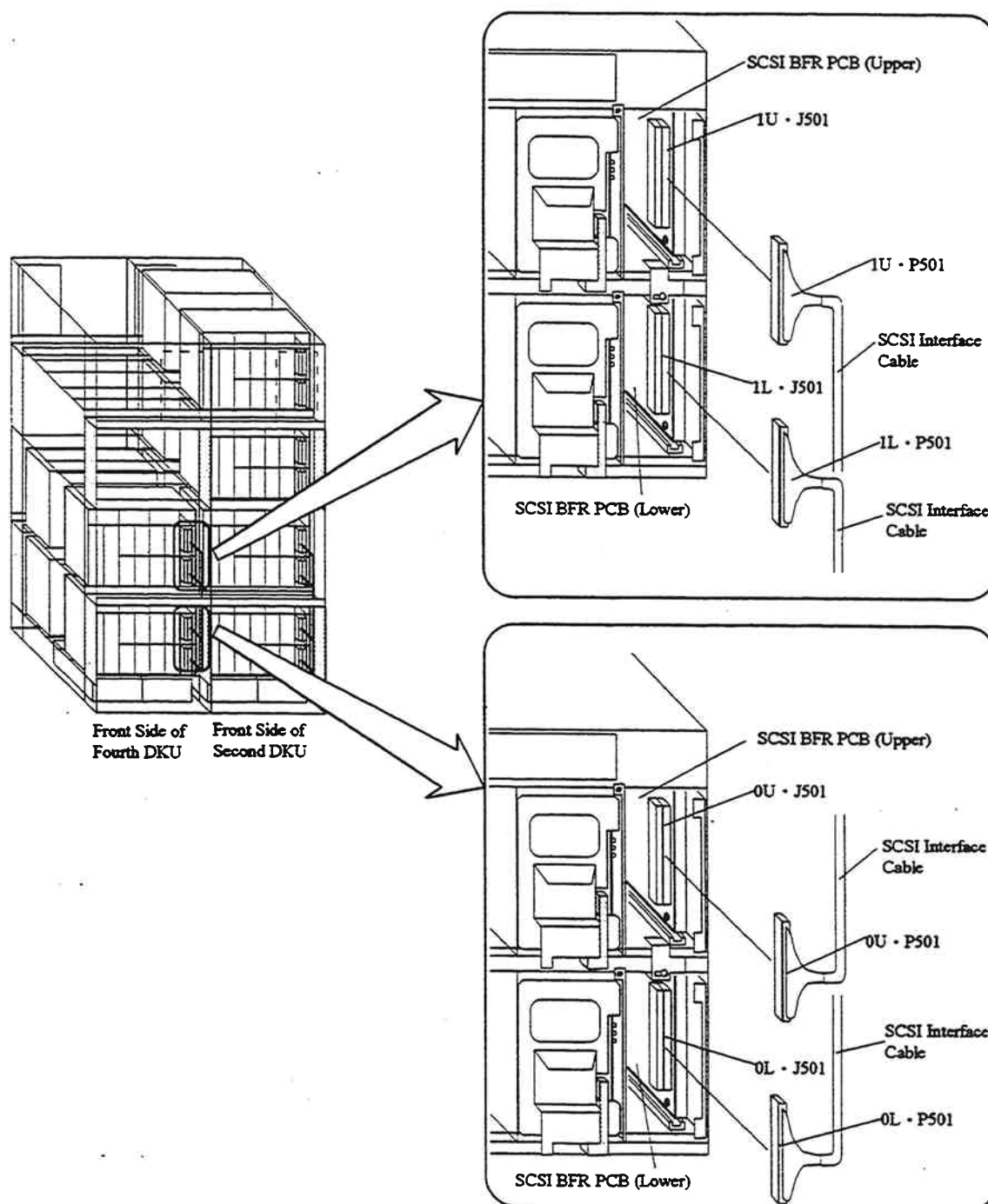


Fig. 3.3.13.2.5-1 Connection of the SCSI Interface Cables

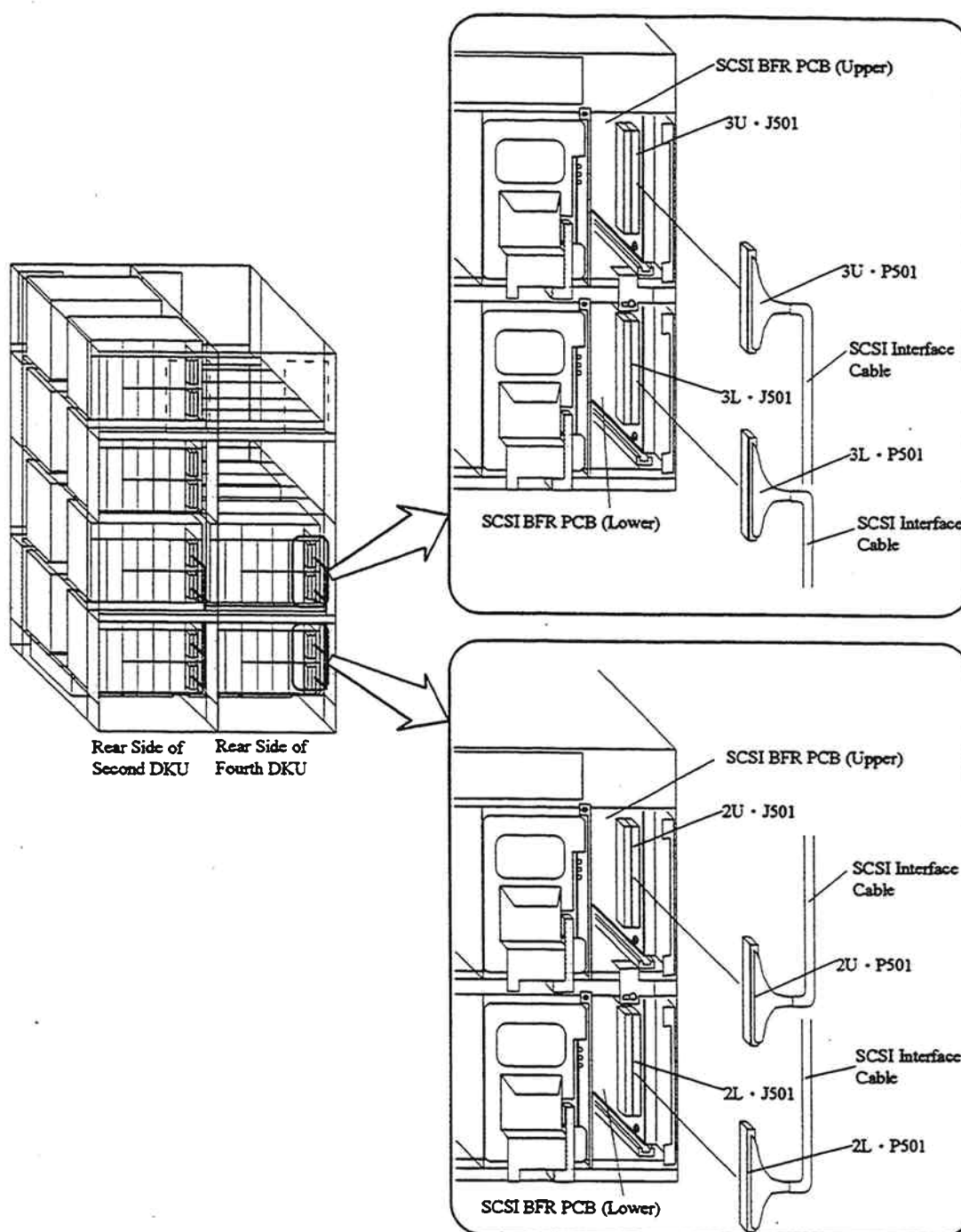


Fig. 3.3.13.2.5-2 Connection of the SCSI Interface Cables

- Refer to INST02-56② when connecting the additional SCSI interface cable while the sub-system is in operation. Refer to INST03-2192 when connecting the additional SCSI interface cable with the sub-system switched off.

3. In the second DKU chassis, check that the Shut Down LEDs are lit on the SCSI BFR PCBs to which the SCSI interface cables are to be connected.

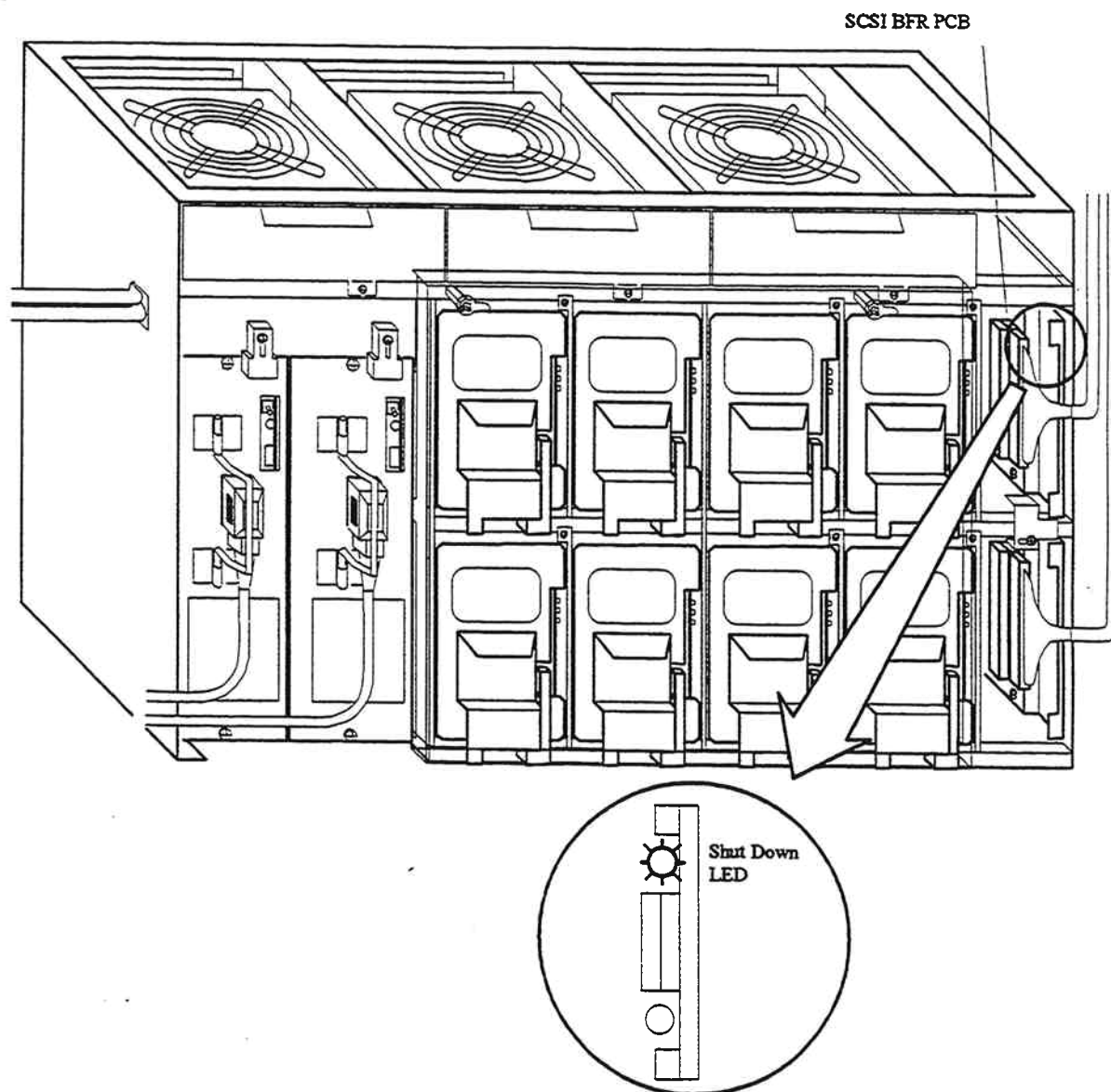


Fig. 3.3.13.2.5-3 onfirmation of the Shut Down LED Light

4. Connect the SCSI interface cables to the SCSI BFR PCBs in the second DKU chassis referring to figures 3.3.13.2.5-4 and 3.3.13.2.5-5.

Notice

When connecting the SCSI interface extension cable (DKU-F205I-34C) during the operation of subsystem, take the following actions from SVP to allow connection of only the SCSI interface cable whose Shut Down LED goes on.

1. Block the SCSI bus connecting the SCSI interface cable.
2. Light the Shut Down LED on the SCSI BFR PCB on the SCSI bus.

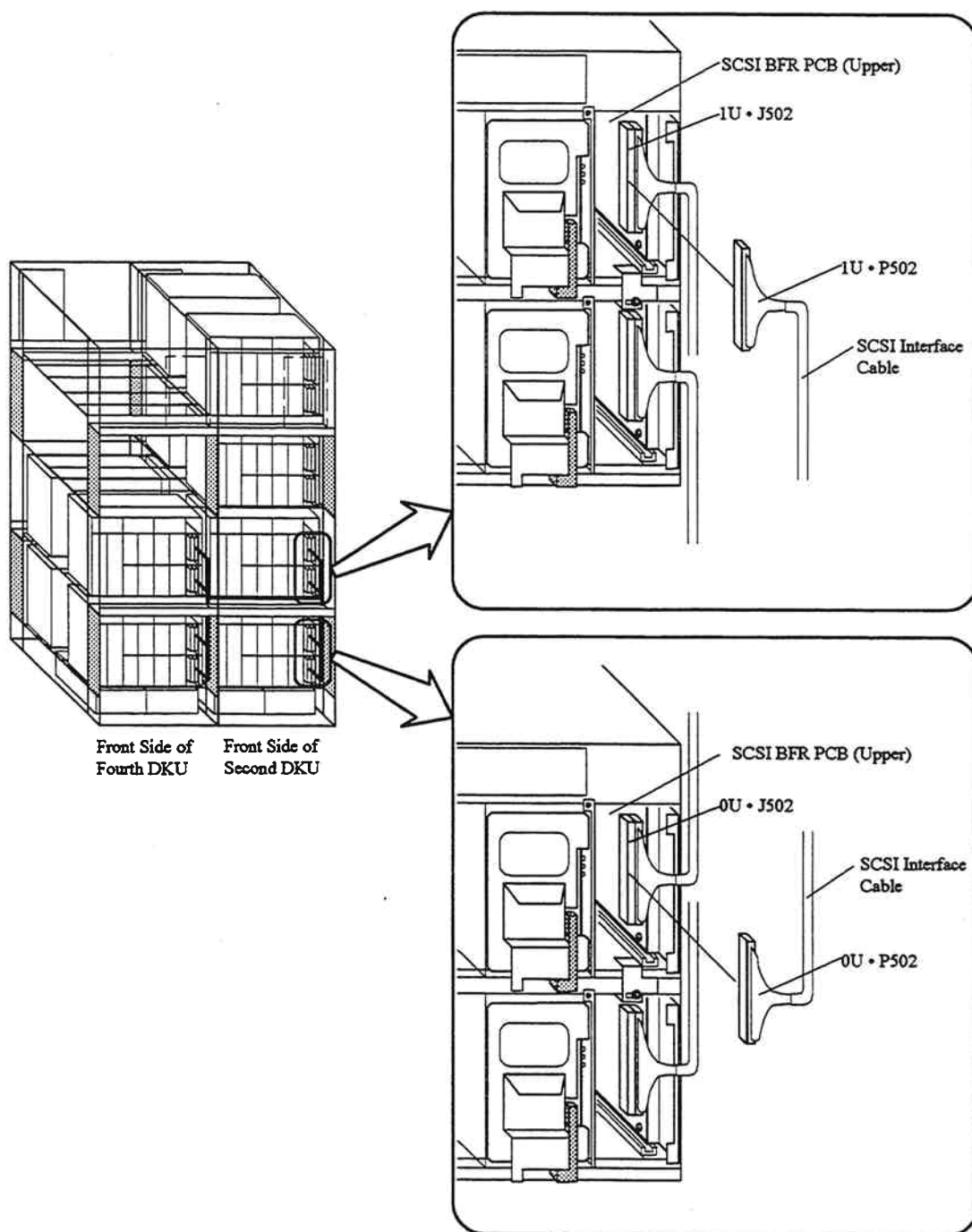


Fig. 3.3.13.2.5-4 Connection of the SCSI Interface Cables

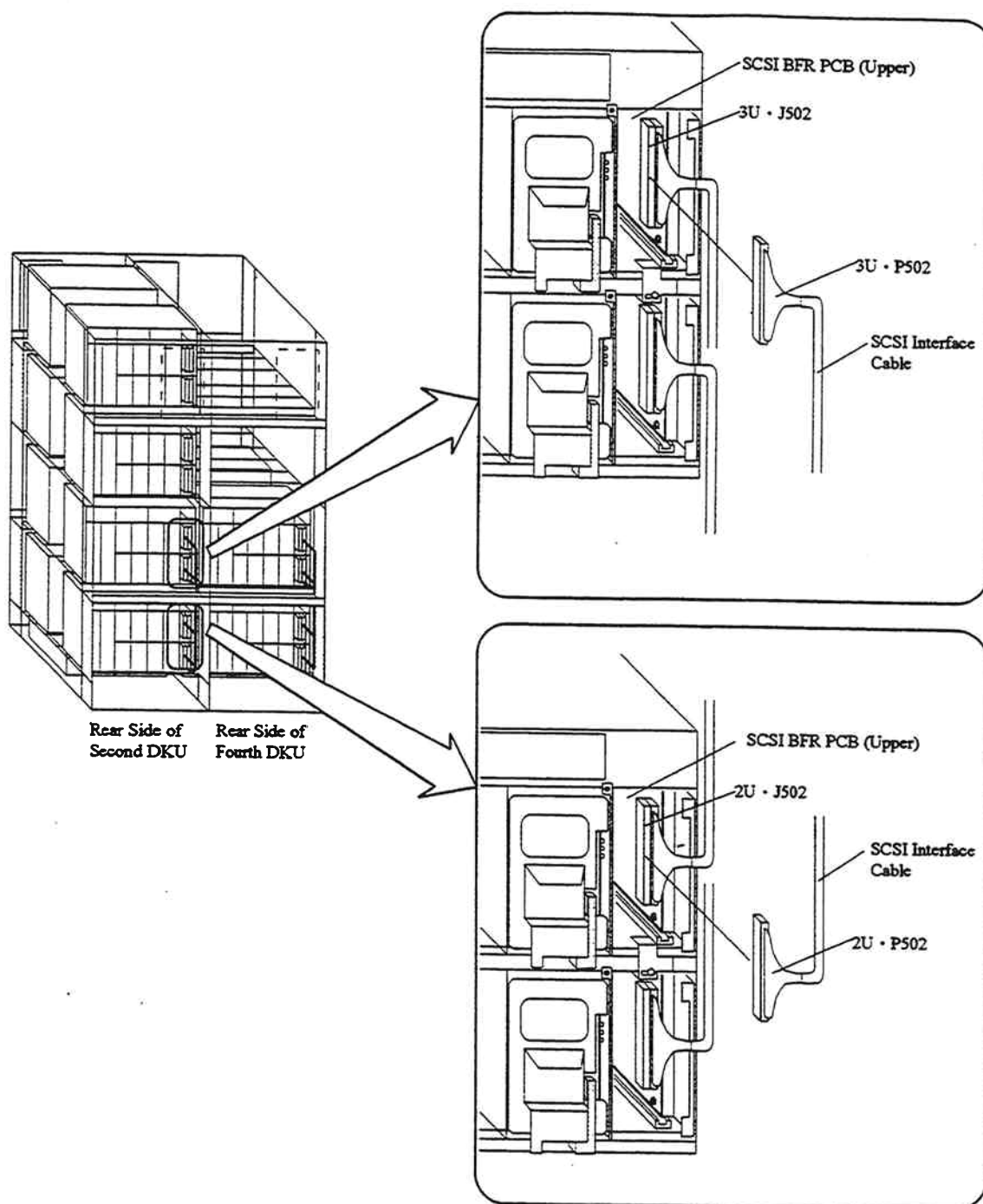


Fig. 3.3.13.2.5-5 Connection of the SCSI Interface Cables

5. Refer to INST02-57④ when connecting the additional SCSI interface cable while the sub-system is in operation. Refer to INST03-2198 when connecting the additional SCSI interface cable with the sub-system switched off.

6. In the second DKU chassis, check that the Shut Down LEDs are lit on the SCSI BFR PCBs to which the SCSI interface cables are to be connected.

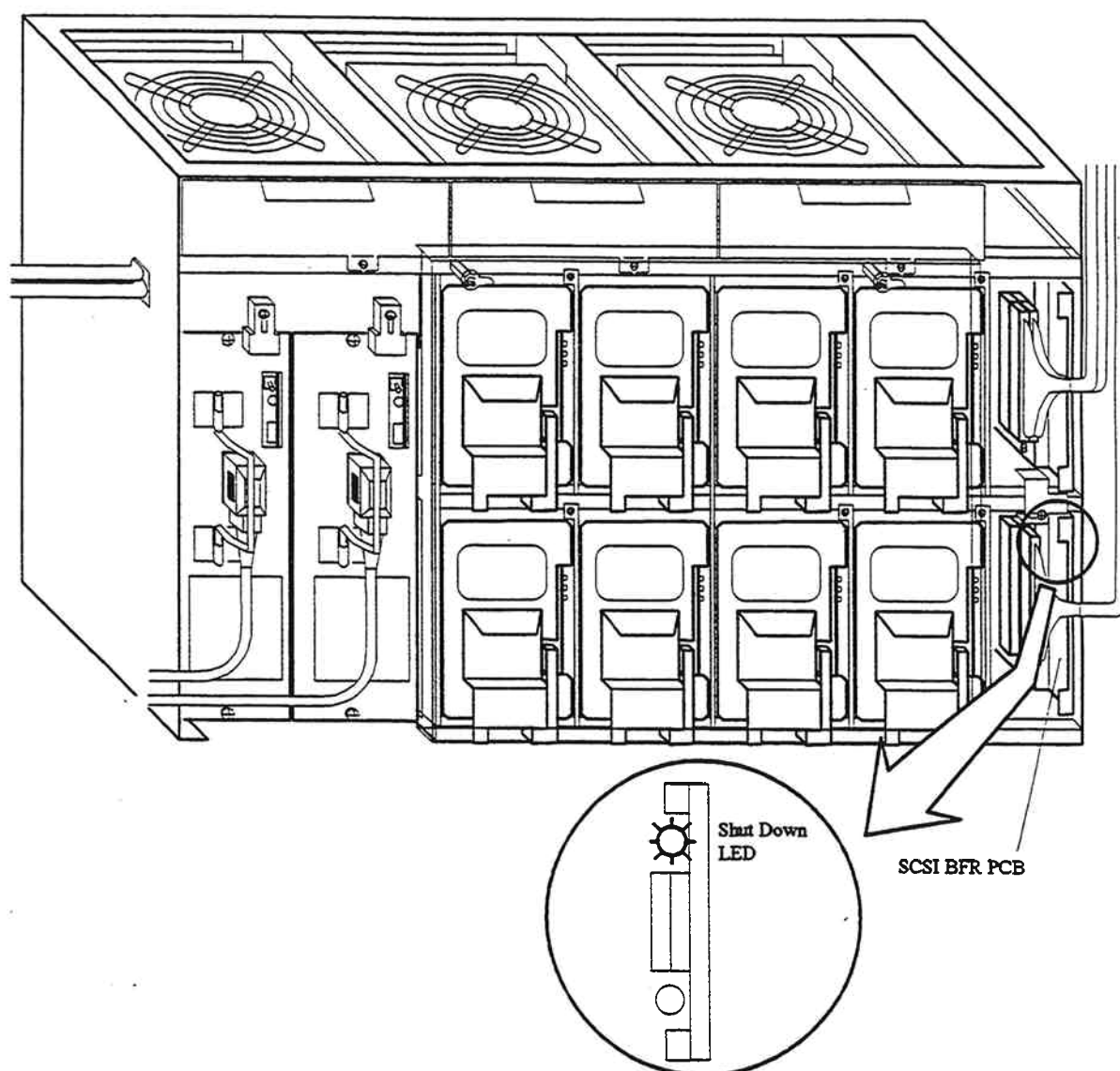


Fig. 3.3.13.2.5-6 Confirmation of the Shut Down LED Light

7. Connect the SCSI interface cables to the SCSI BFR PCBs in the second DKU chassis referring to figures 3.3.13.2.5-7 and 3.3.13.2.5-8.

Notice

When connecting the SCSI interface extension cable (DKU-F205I-34C) during the operation of subsystem, take the following actions from SVP to allow connection of only the SCSI interface cable whose Shut Down LED goes on.

1. Block the SCSI bus connecting the SCSI interface cable.
2. Light the Shut Down LED on the SCSI BFR PCB on the SCSI bus.

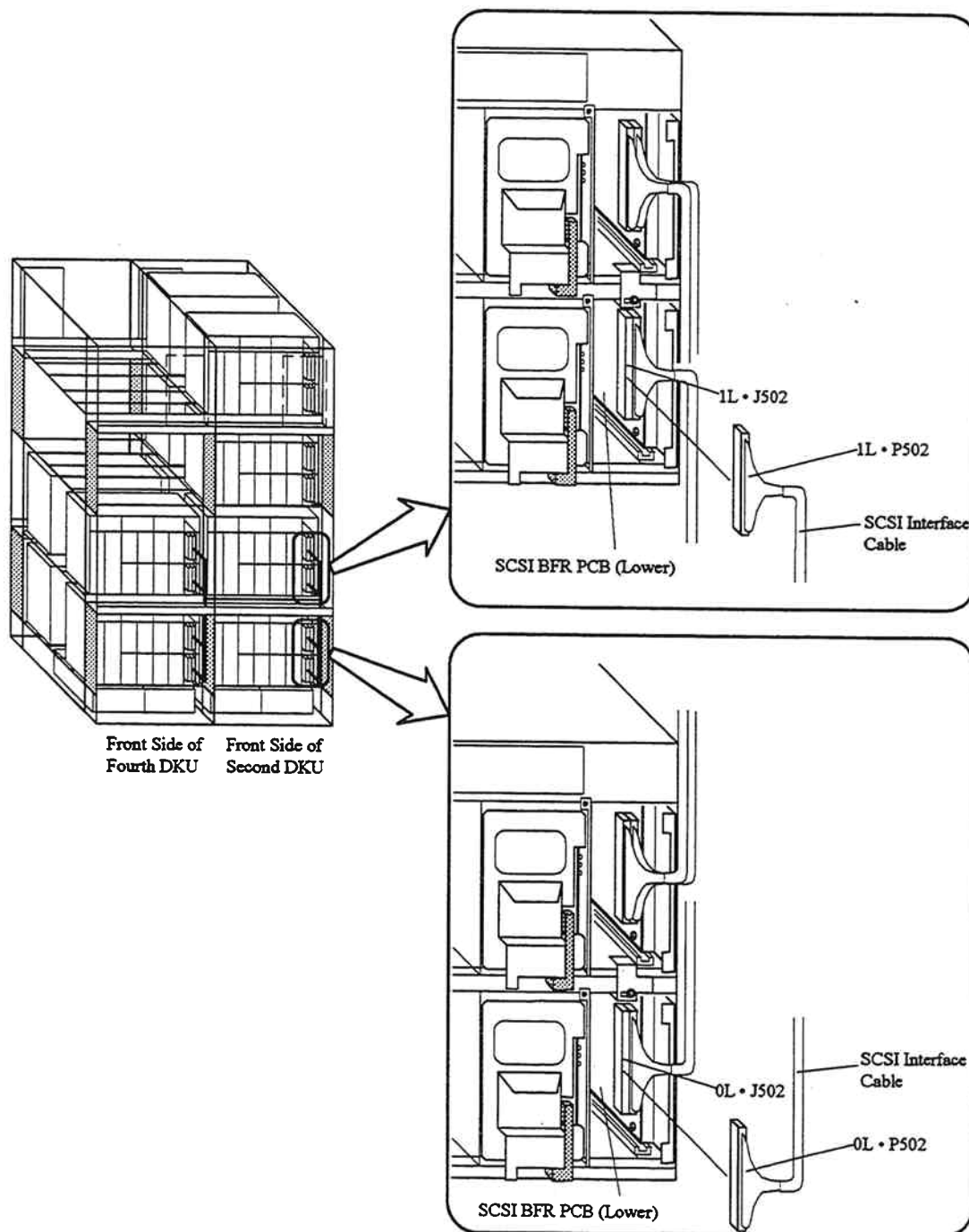


Fig. 3.3.13.2.5-7 Connection of the SCSI Interface Cables

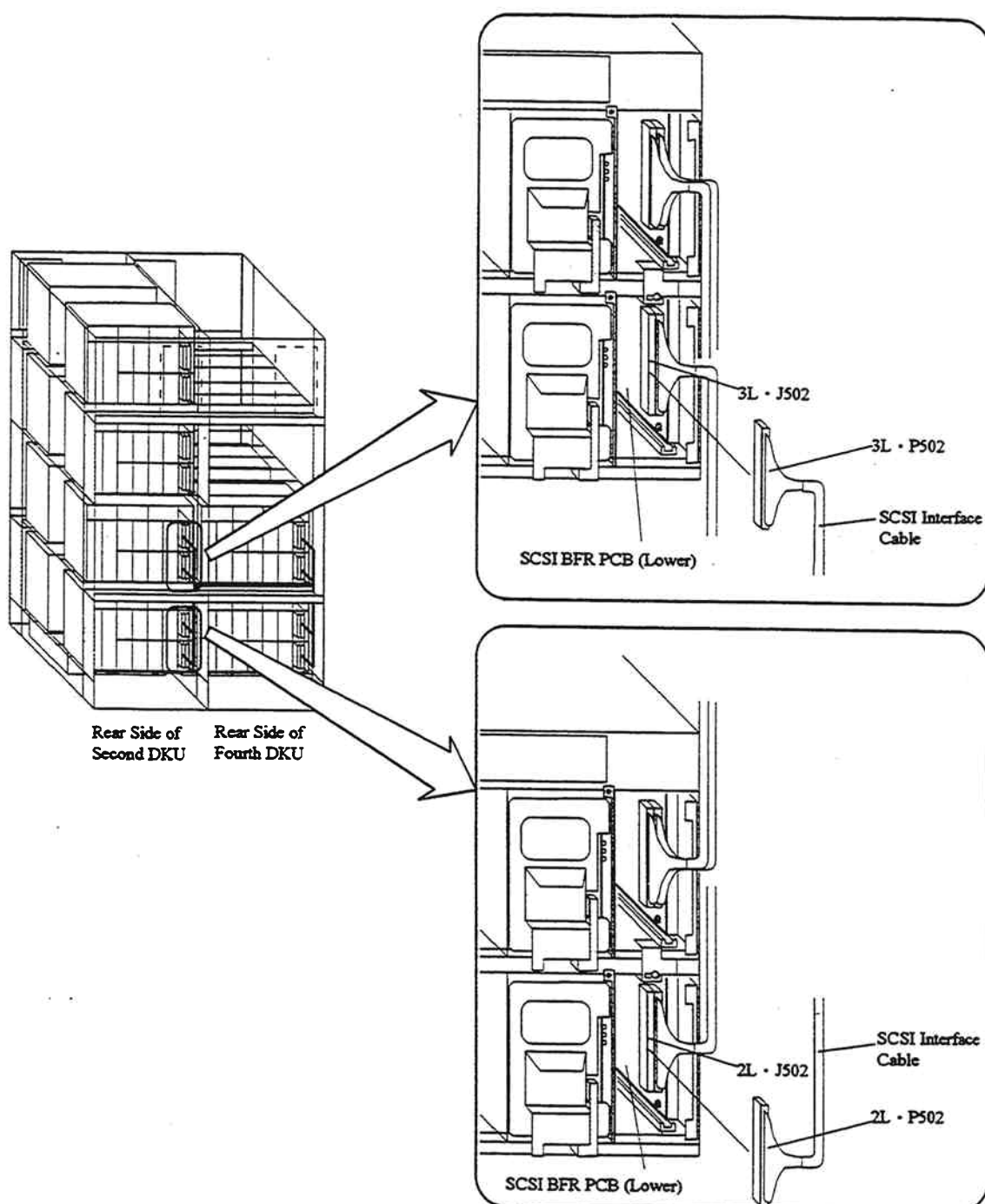
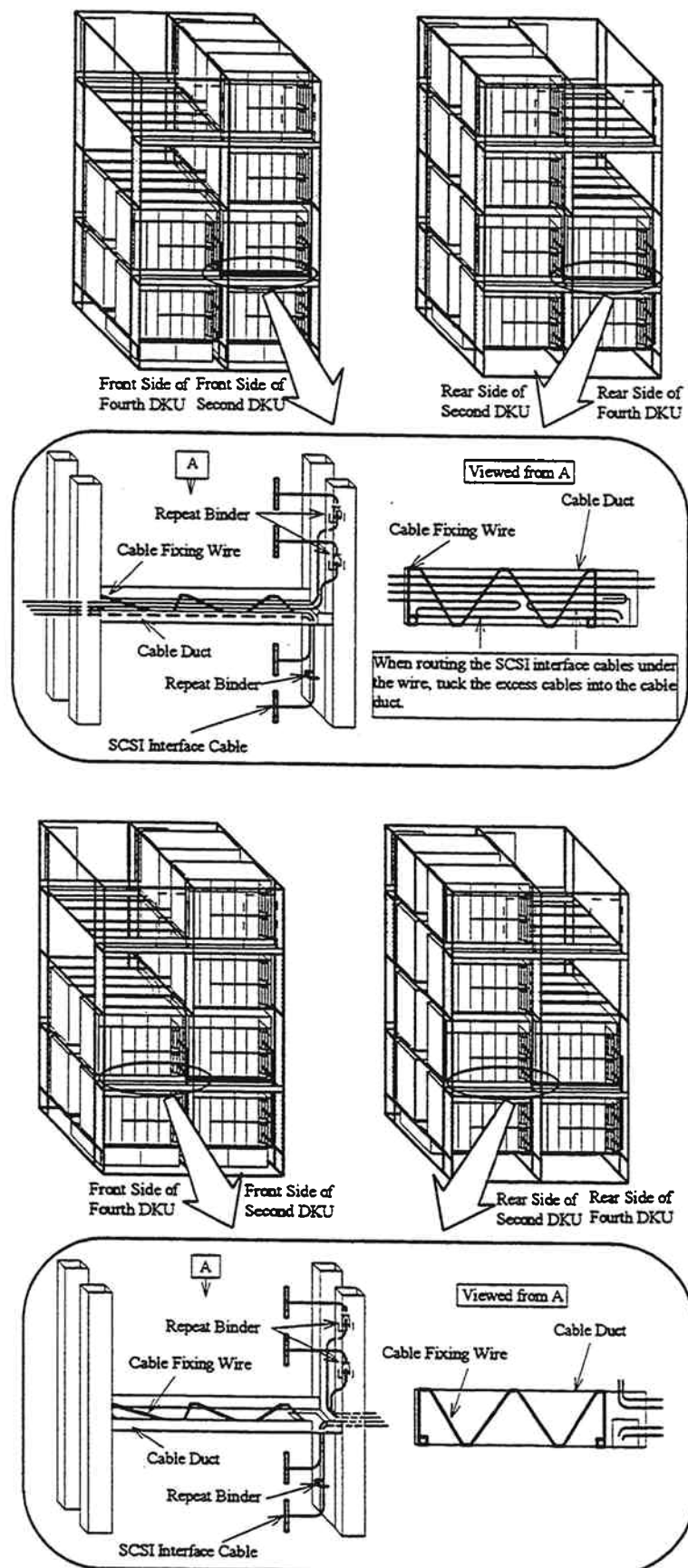


Fig. 3.3.13.2.5-8 Connection of the SCSI Interface Cables

8. Refer to INST02-57© when connecting the additional SCSI interface cable while the sub-system is in operation. Refer to INST03-2202 when connecting the additional SCSI interface cable with the sub-system switched off.

9. Fix the SCSI interface cables in the DKU chassises with the cable fixing wires and repeat binders.



.Fig. 3.3.13.2.5-9 Fixation of the SCSI Interface Cables

10. Attach the nameplate to the fourth DKU chassis.

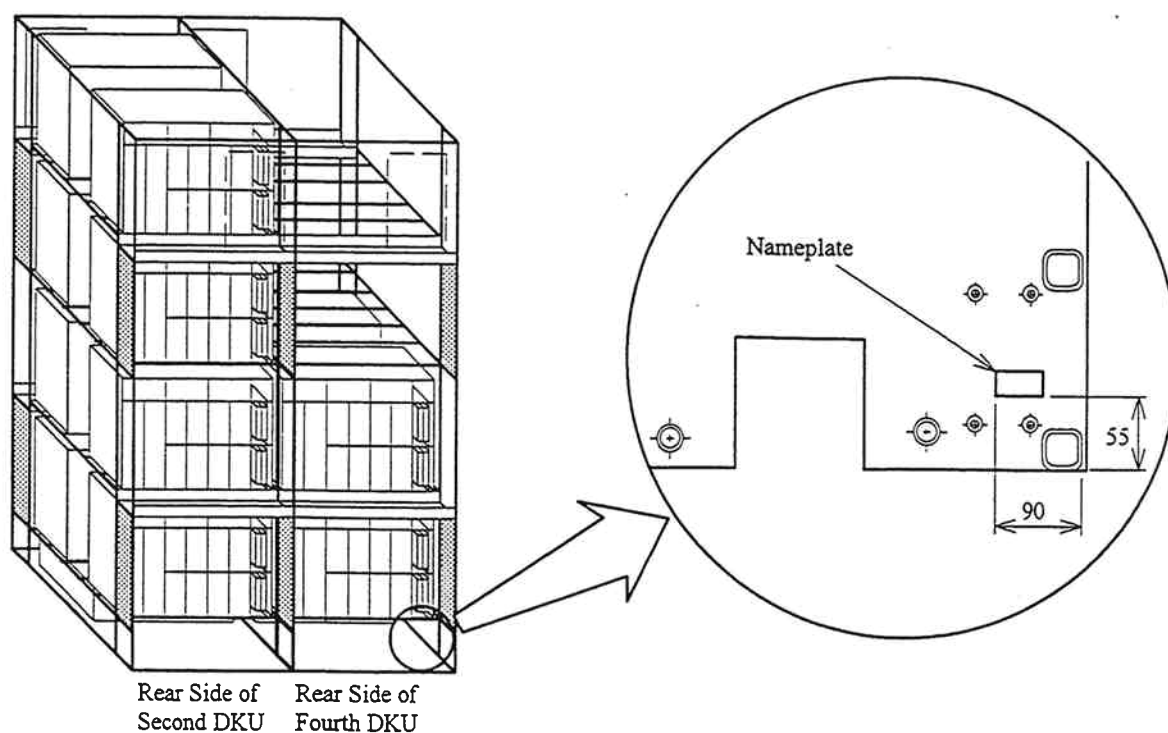


Fig. 3.3.13.2.5-10 Attachment of the Nameplate

11. When the fourth DKU chassis consists of 4 HDU boxes, fix the rest of the SCSI interface cables in the fourth DKU chassis with the binders.

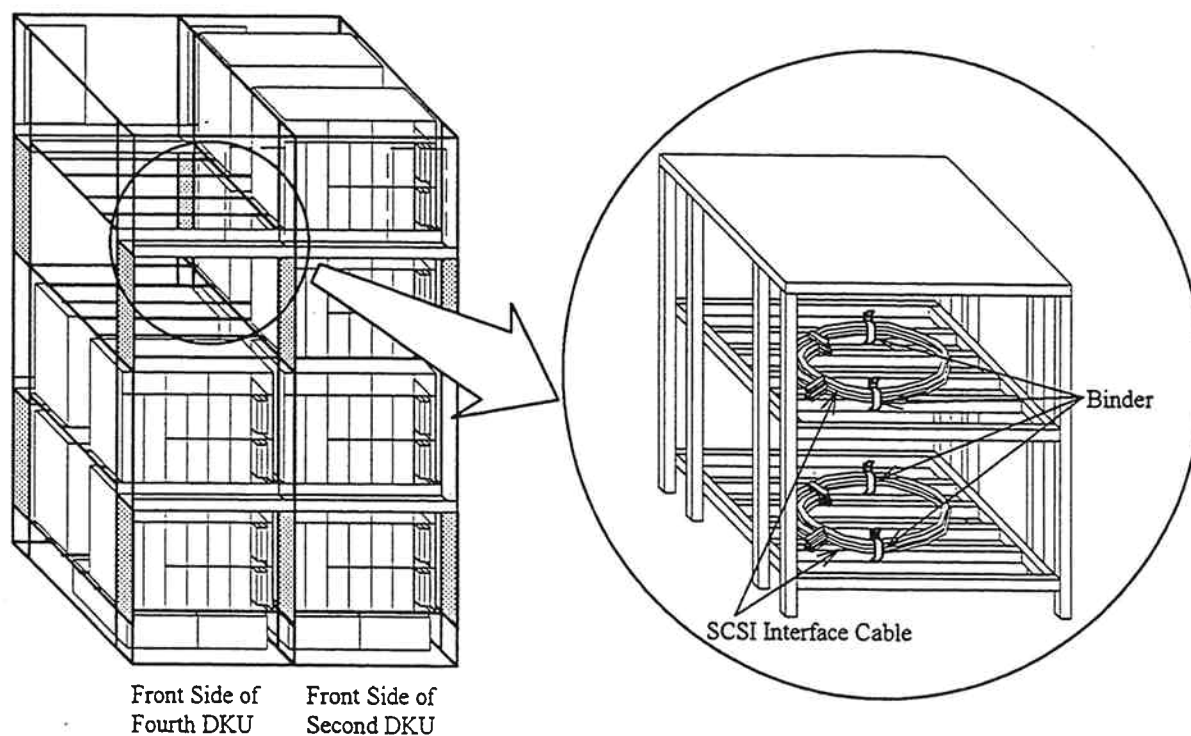


Fig. 3.3.13.2.5-11 Fixation of the SCSI Interface Cables

12. Go to INST02-57 Step ③.

3.3.13.2.6 Connection Procedure of Additional SCSI Interface Cables(In case of HDU-L27 from L24)

1. Connect the SCSI interface cables to the SCSI BFR PCBs in the third DKU chassis referring to figures 3.3.13.2.6-1 and 3.3.13.2.6-2.

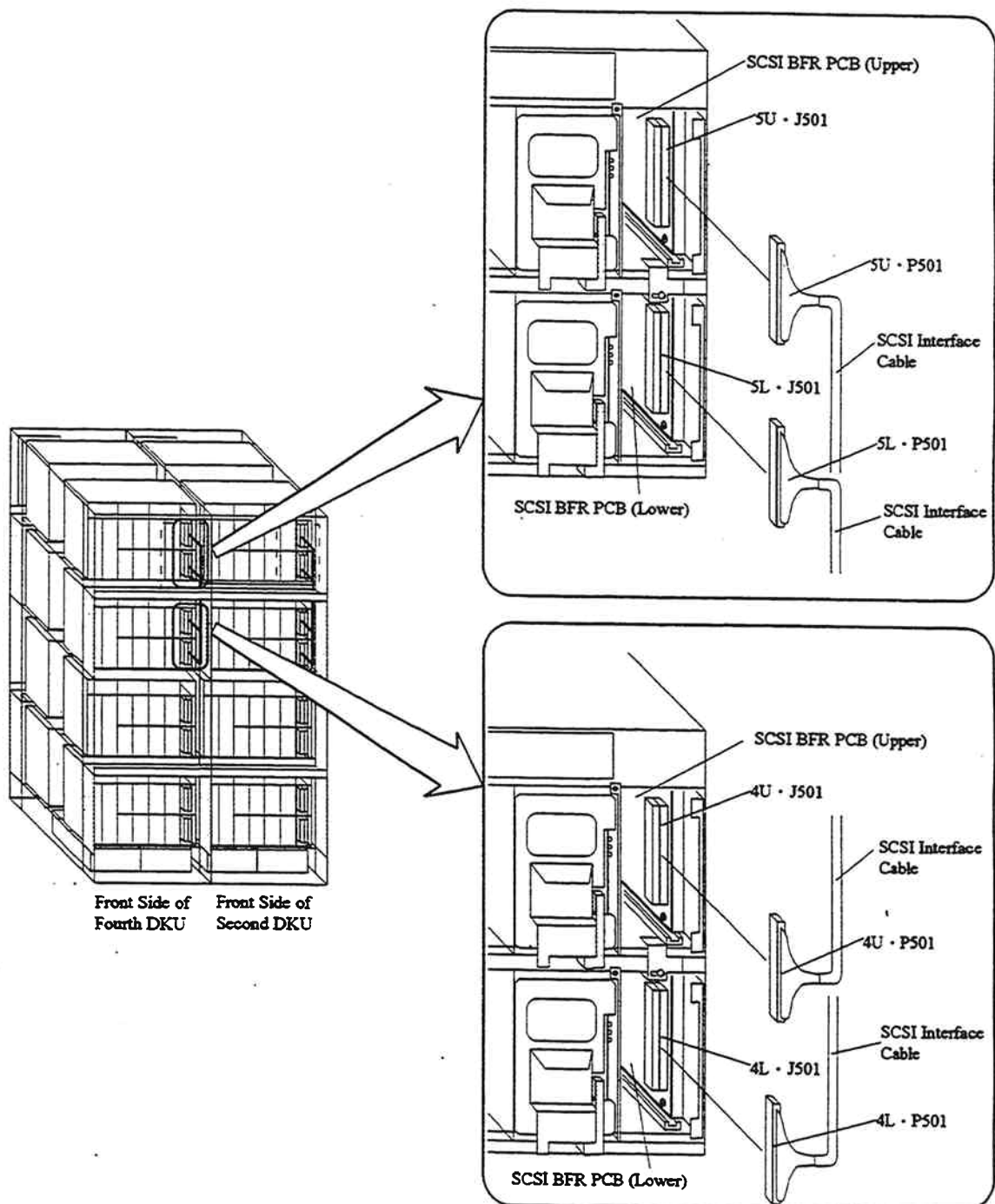


Fig. 3.3.13.2.6-1 Connection of the SCSI Interface Cables

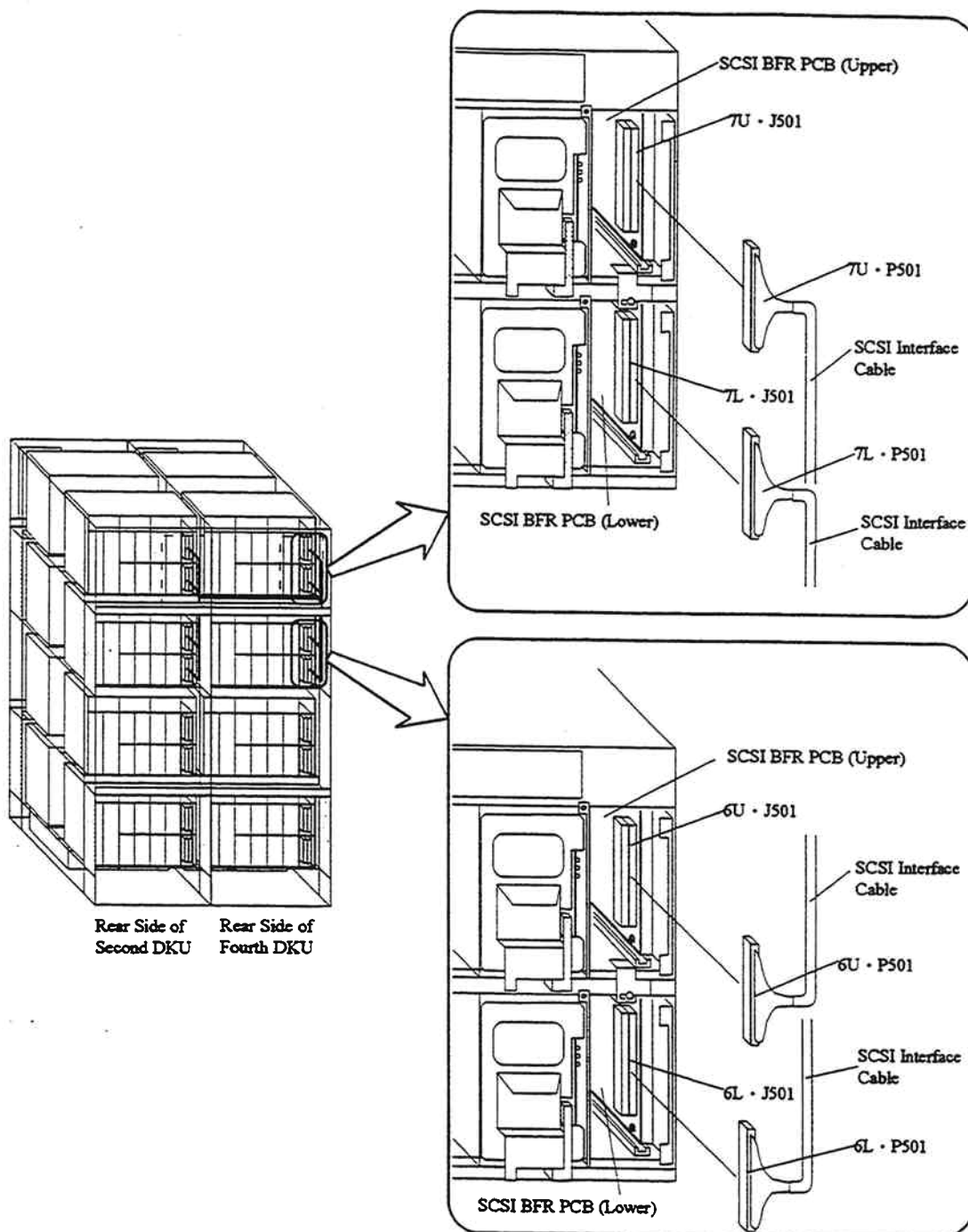


Fig. 3.3.13.2.6-2 Connection of the SCSI Interface Cables

- Refer to INST02-56② when connecting the additional SCSI interface cable while the sub-system is in operation. Refer to INST03-2212 when connecting the additional SCSI interface cable with the sub-system switched off.

3. In the second DKU chassis, check that the Shut Down LEDs are lit on the SCSI BFR PCBs to which the SCSI interface cables are to be connected.

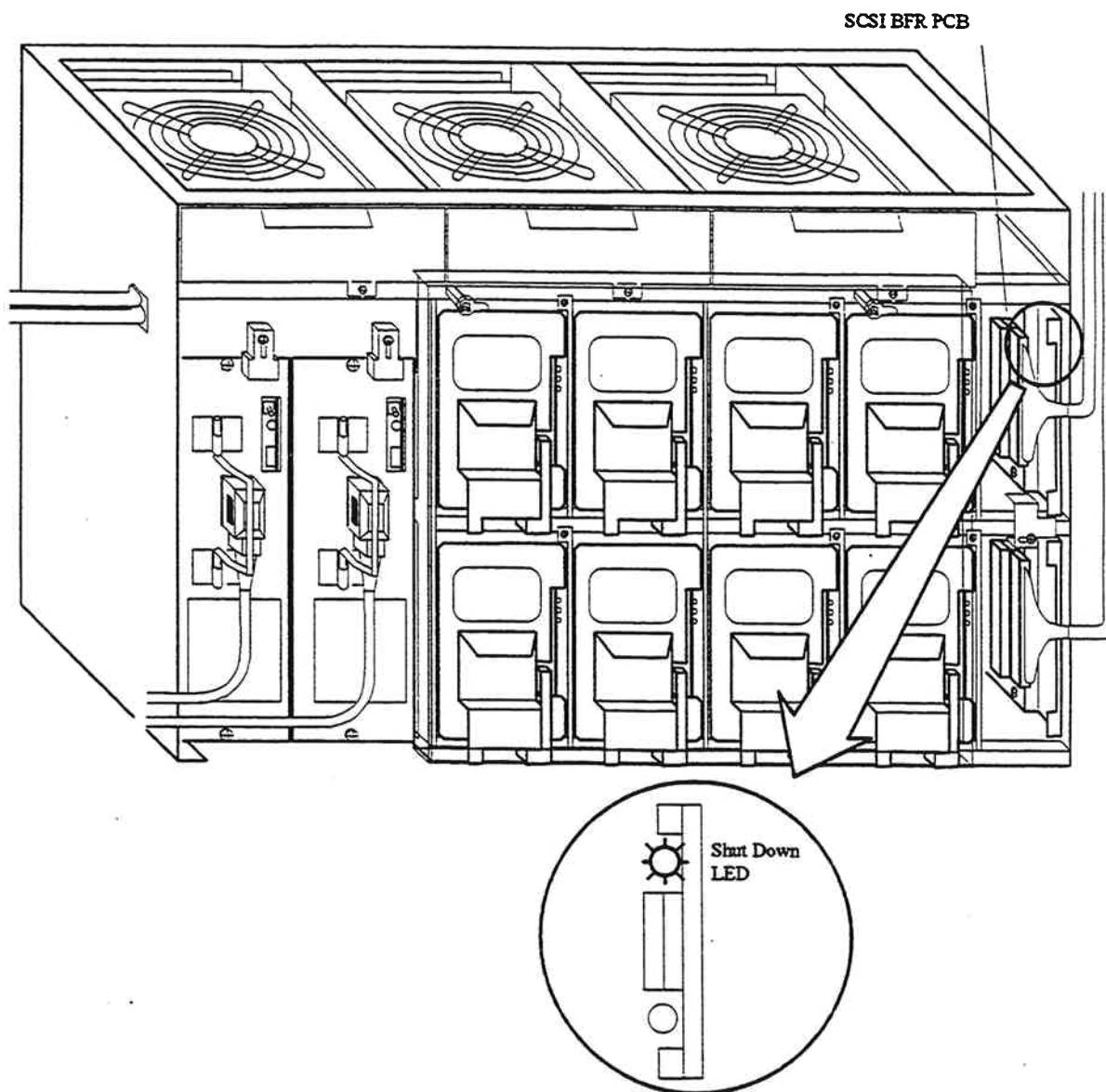


Fig. 3.3.13.2.6-3 Confirmation of the Shut Down LED Light

4. Connect the SCSI interface cables to the SCSI BFR PCBs in the second DKU chassis referring to figures 3.3.13.2.6-4 and 3.3.13.2.6-5.

Notice

When connecting the SCSI interface extension cable (DKU-F205I-34C) during the operation of subsystem, take the following actions from SVP to allow connection of only the SCSI interface cable whose Shut Down LED goes on.

1. Block the SCSI bus connecting the SCSI interface cable.
2. Light the Shut Down LED on the SCSI BFR PCB on the SCSI bus.

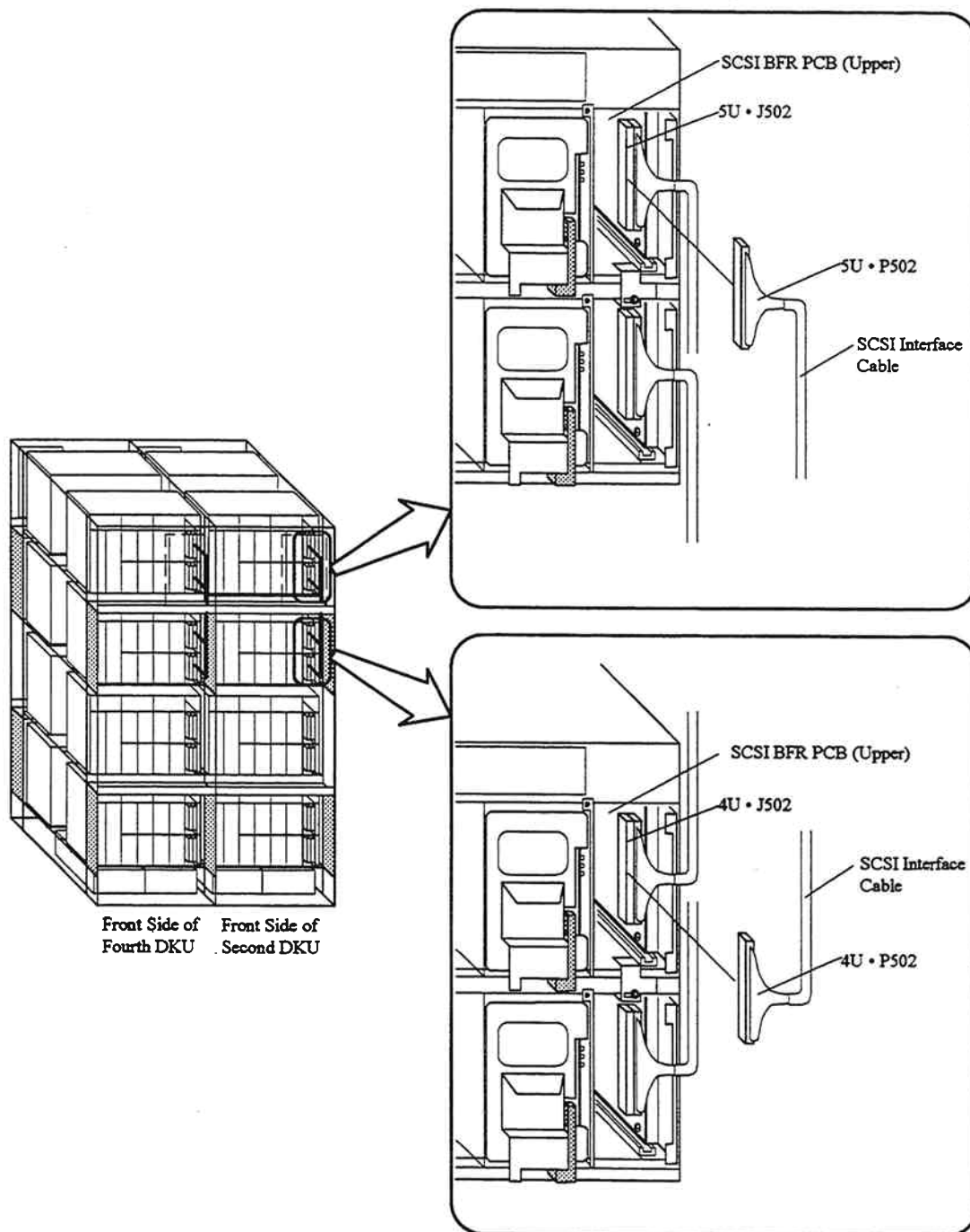


Fig. 3.3.13.2.6-4 Connection of the SCSI Interface Cables

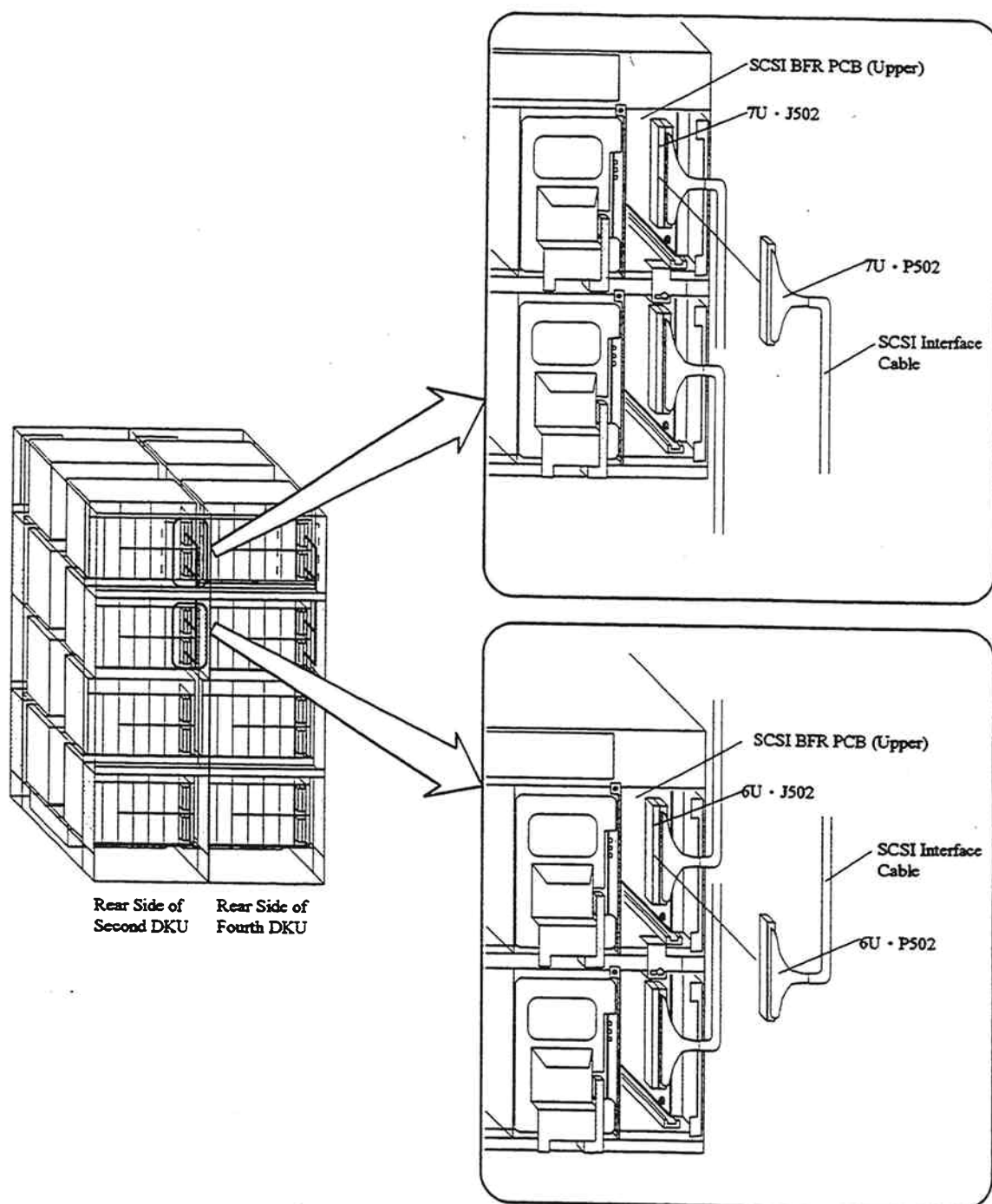


Fig. 3.3.13.2.6-5 Connection of the SCSI Interface Cables

5. Refer to INST02-57④ when connecting the additional SCSI interface cable while the sub-system is in operation. Refer to INST03-2218 when connecting the additional SCSI interface cable with the sub-system switched off.

6. In the second DKU chassis, check that the Shut Down LEDs are lit on the SCSI BFR PCBs to which the SCSI interface cables are to be connected.

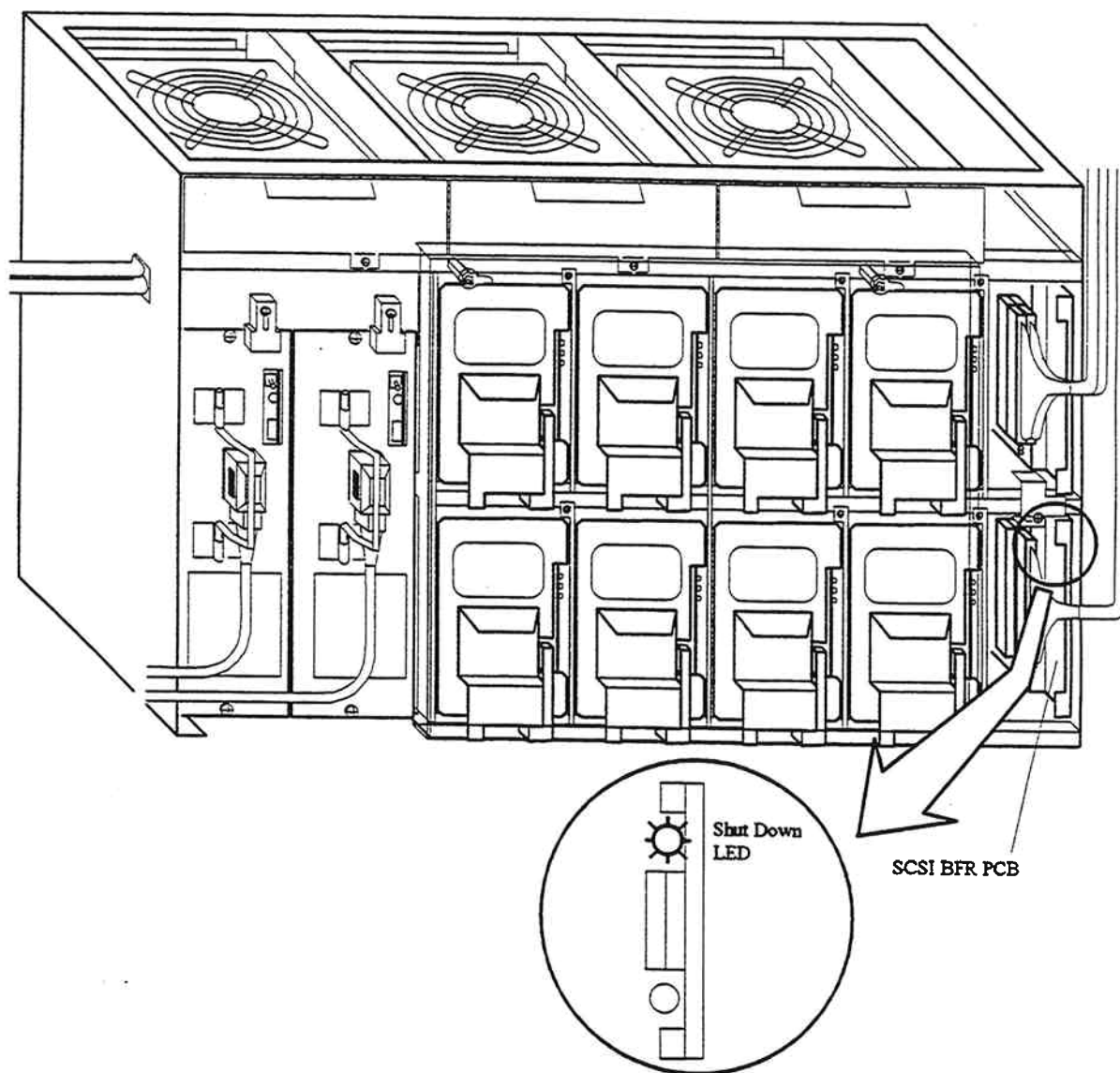


Fig. 3.3.13.2.6-6 Confirmation of the Shut Down LED Light

7. Connect the SCSI interface cables to the SCSI BFR PCBs in the second DKU chassis referring to figures 3.3.13.2.6-7 and 3.3.13.2.6-8.

Notice

When connecting the SCSI interface extension cable (DKU-F205I-34C) during the operation of subsystem, take the following actions from SVP to allow connection of only the SCSI interface cable whose Shut Down LED goes on.

1. Block the SCSI bus connecting the SCSI interface cable.
2. Light the Shut Down LED on the SCSI BFR PCB on the SCSI bus.

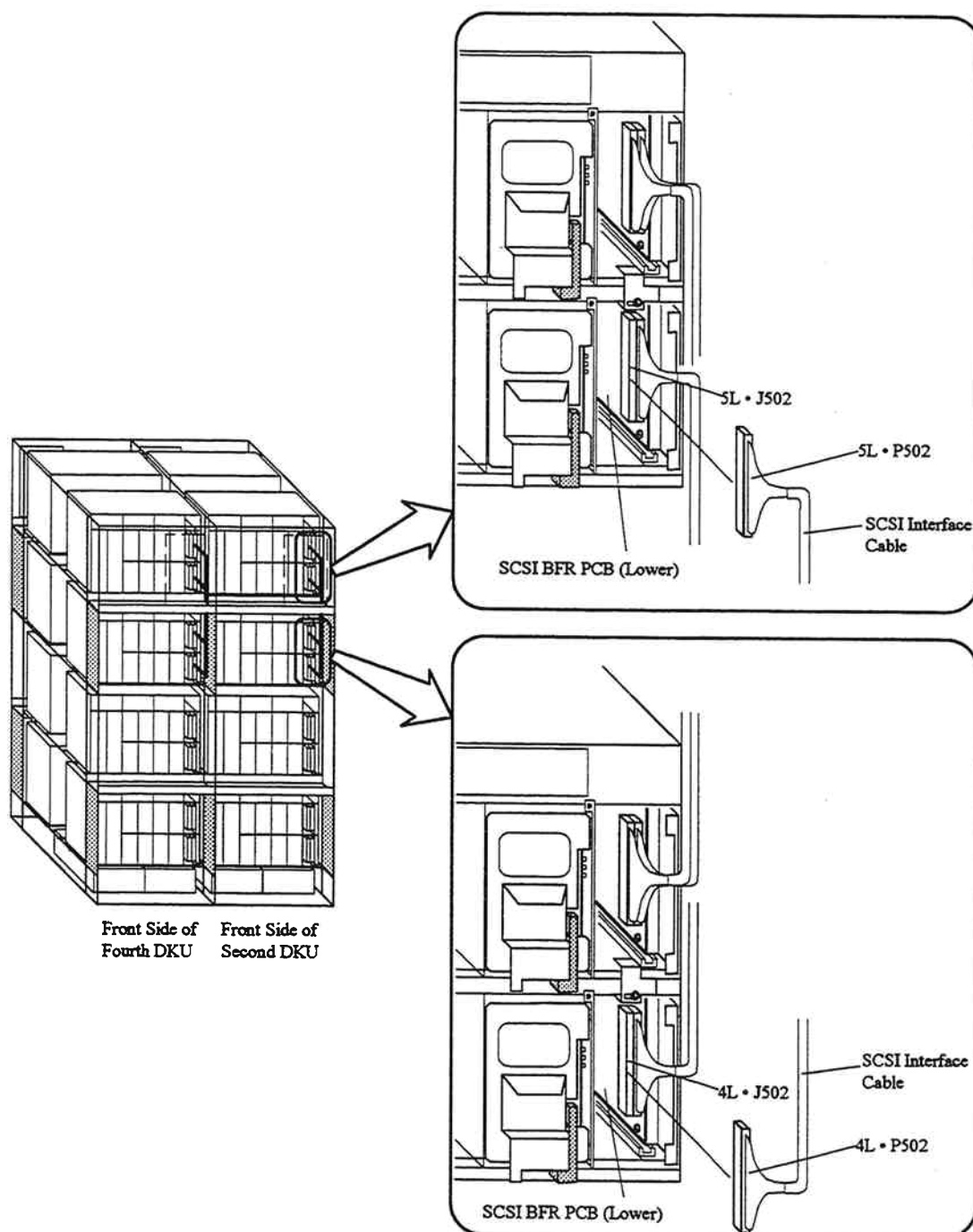


Fig. 3.3.13.2.6-7 Connection of the SCSI Interface Cables

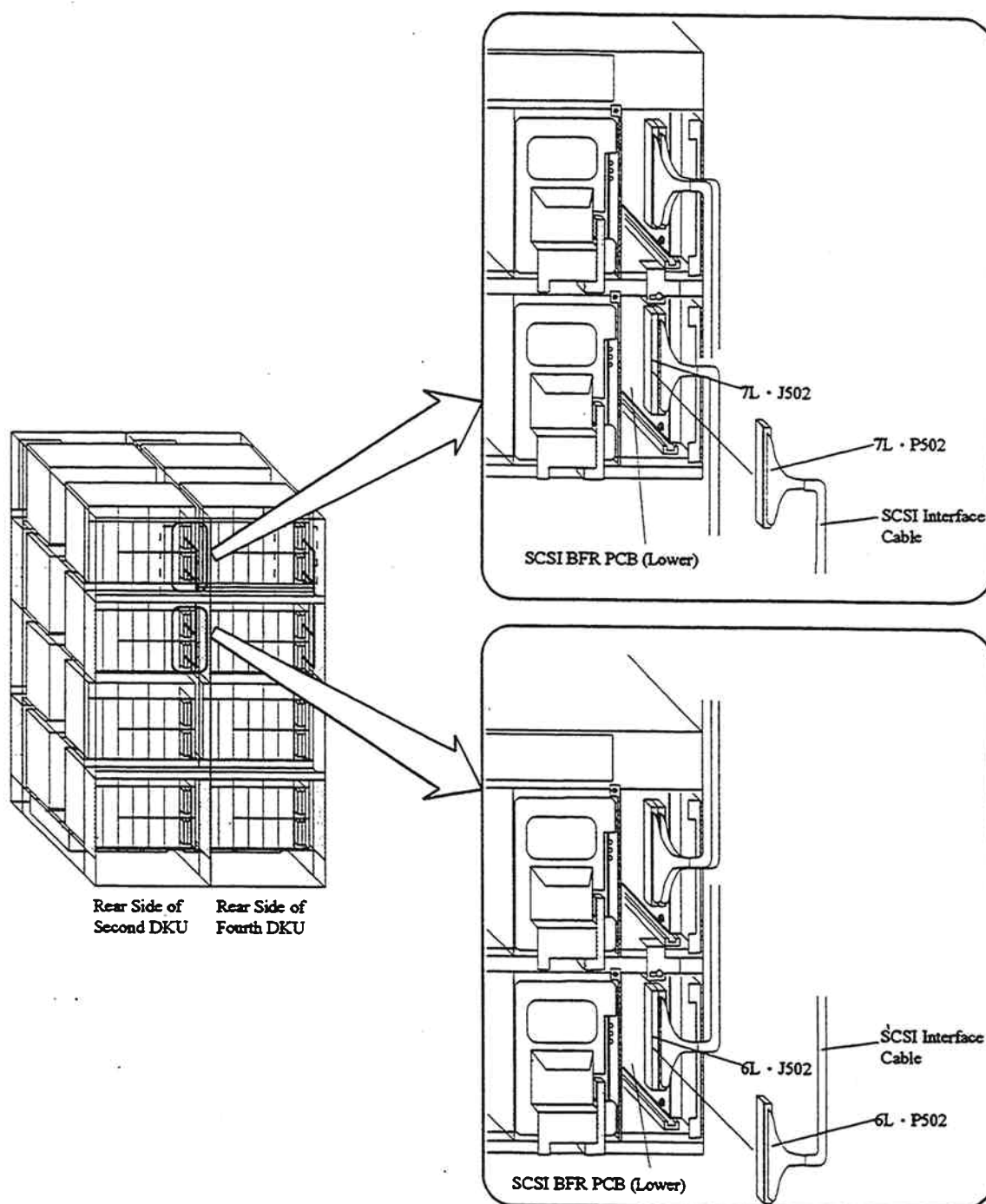


Fig. 3.3.13.2.6-8 Connection of the SCSI Interface Cables

8. Refer to INST02-57© when connecting the additional SCSI interface cable while the sub-system is in operation. Refer to INST03-2222 when connecting the additional SCSI interface cable with the sub-system switched off.

9. Fix the SCSI interface cables in the DKU chassis with the cable fixing wires and repeat binders.

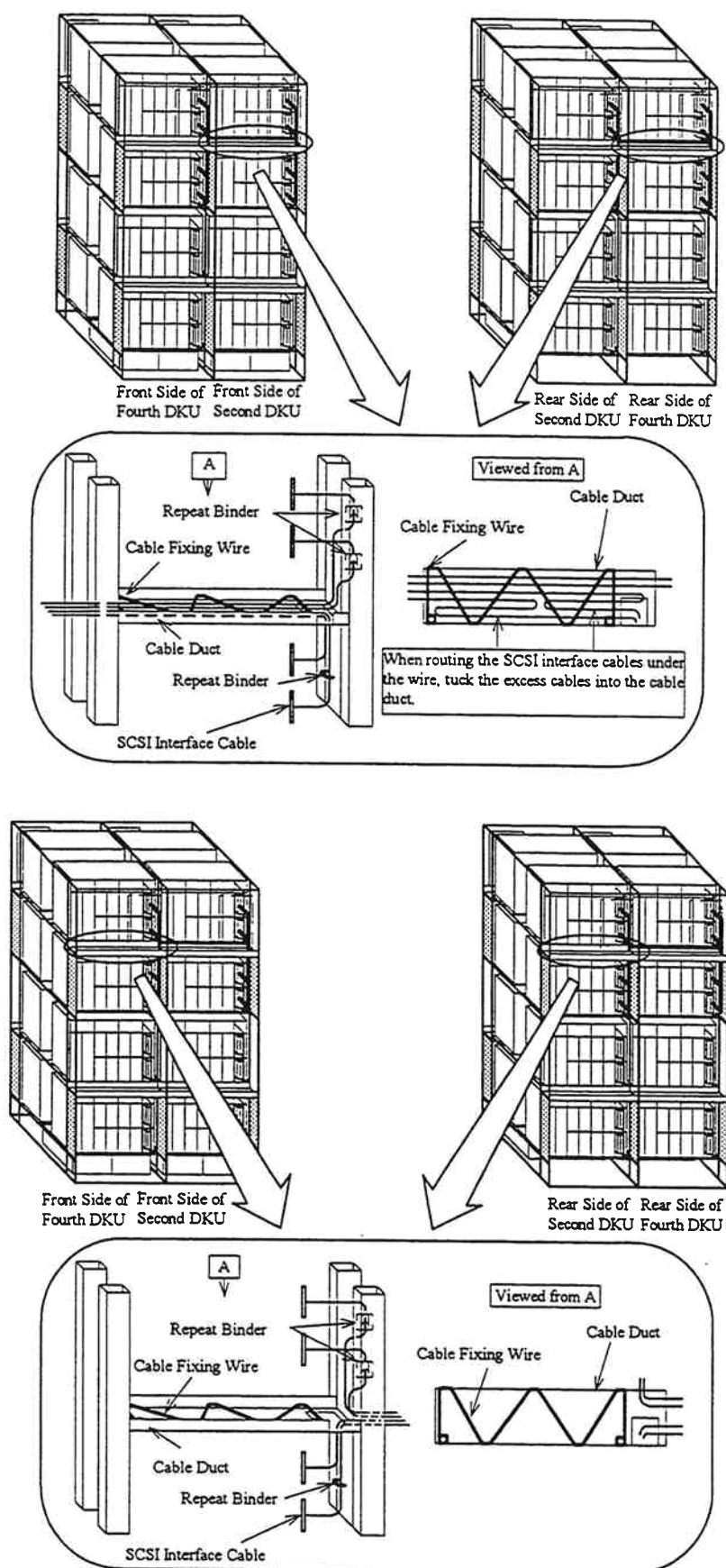


Fig. 3.3.13.2.6-9 Fixation of the SCSI Interface Cables

10. Go to INST02-57 Step ③.

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