LOCATION SECTION

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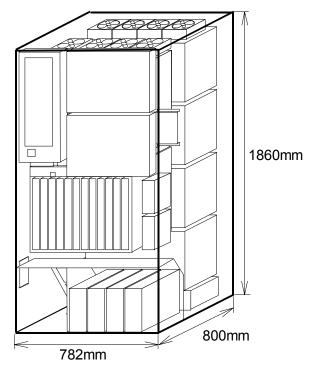
Contents

LOCATION

1 Overview of Disk Subsystem	LOCATION01-10
2 Parts Location	LOCATION02-10
2.1 Disk Controller Unit	LOCATION02-10
2.2 PCB and Power Supply Location	LOCATION02-30
2.3 Shared Memory Module Location	LOCATION02-50
2.4 Cache Memory Module Location	LOCATION02-60
3 Panel	LOCATION03-10
3.1 Operator Panel	
3.2 Other Switches and LEDs	
3.3 Circuit Breakers	
3.3.1 Single Phase Model	
3.3.2 3 Phase Model	LOCATION03-90
4 Connection of External Cable	LOCATION04-10
4.1 AC Cabling	LOCATION04-10
4.1.1 3 Phase/30A Model for USA	
4.1.2 3 Phase/30A Model for Europe	LOCATION04-20
4.1.3 Single Phase/50A Model for USA	
4.1.4 Single Phase/50A Model for Europe	
4.1.5 Single Phase/30A Model for USA	
4.1.6 Single Phase/30A Model for Europe	LOCATION04-42
4.2 Channel Interface	LOCATION04-50
4.3 PCI Cabling	LOCATION04-80
5 Internal Cabling Block Diagram	LOCATION05-10
5.1 Internal Cable Connection of Disk Controller	LOCATION05-10
5.2 Cable Connection between DKA and HDU	LOCATION05-20
5.3 Channel Interface Cabling	LOCATION05-30
5.4 LAN Cabling	LOCATION05-50
6 Jumper Setting	LOCATION06-10
6.1 Shut Down Jumpers	LOCATION06-10
6.2 Other Jumpers	
6.3 Voltage Selector	LOCATION06-140

REV.2 Jun.2001 Feb.2002	Jun.2002			
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1 Overview of Disk Subsystem

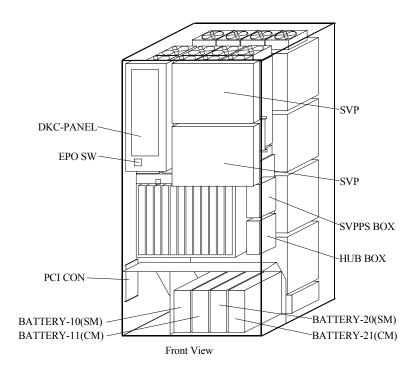


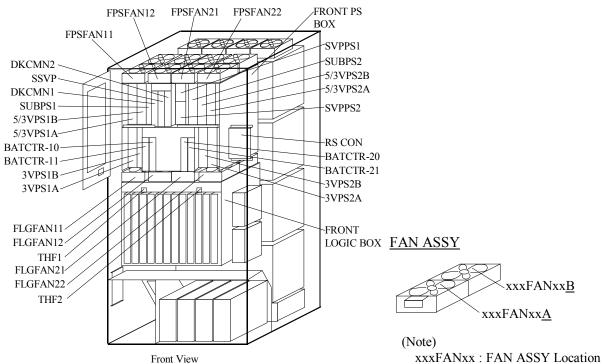
Front View

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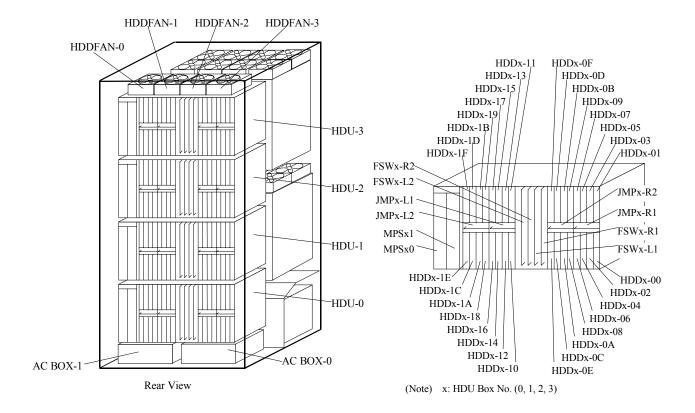
2 Parts Location

2.1 Disk Controller Unit





REV.0 Jun.2001



REV.1 Jun.2001 Feb	.2002	
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2.2 PCB and Power Supply Location

FRONT LOGIC BOX PCB LOCATION

			CI	_1							CI	_2			
Α	В	3	С	D	Е	F	=	G	Н	J	ŀ	<	ı	_	М
W P 4 8 1 C	W S P H 4 2 7 8 1 1 A B	W P 4 2 8 1 1 - B B	1 s t C H A	2 n d C H A	W P 4 9 0 — A	3 r d C H A	W S P H 4 2 7 8 1 1 B B	1 s t C H A	W P 4 9 0 — A	2 n d C H A	3 r d C H A	W S H 2 2 7 8 1 1 B B	W S P H 2 7 8 1 1 A B	W S P H 4 2 7 8 1 1 B B	W P 4 8 1 C
CSW -1A	DKA		CHA -1C	CHA -1D	CACHE -1E	CHA -1F	DKA -1F	CHA -2G	CACHE -2H	CHA -2J	CHA -2K	DKA -2L		\-2L	CSW -2M
	Bas	sic	Basic	Add.1	•	Add.2	Add.1	Basic		Add.1	Add.2	Add.1	Ba	sic	

*B: Description of CHA PCBs

CL1	CL2
C, D, F	G, J, K
W S W S W S W S W S W S W S W S W S W S	W S W S W S W S W S W S W S W S W S W S
*1 *2 *3 *4 *5 *6 *7 *8 *9 *10 *11 *12	*1 *2 *3 *4 *5 *6 *7 *8 *9 *10 *11 *12

- *1: DKC-F460I-8S
- *2: DKC-F460I-8GSE
- *3: DKC-F460I-4HSE
- *4: DKC-F460I-8HSE
- *5: DKC-F460I-8HLE
- *6: DKC-F460I-8MS
- *7: DKC-F460I-8ML
- *8: DKC-F460I-8HSF
- *9: DKC-F460I-8HLF
- *10: DKC-F460I-8GSF
- *11: DKC-F460I-4HSF
- *12: DKC-F460I-16HSF

REV.3	Jun.2001	Feb.2002	Jun.2002	Jul.2002		
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FRONT PS BOX PS AND PCB LOCATION

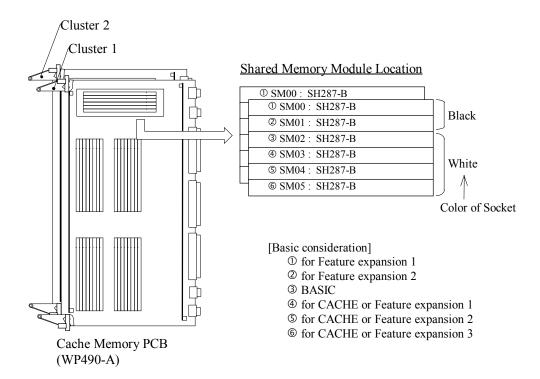
	C	L1			CL1/CL2	CI	_2	CL1		CL2	
			Α	U	BU	С	U	DU			
5/3VPS1A	5/3VPS1B	SUBPS1	DKC	MN1	SSVP	DKC	MN2	SVPPS1	SUBPS2	5/3VPS2B	5/3VPS2A
5 / 3 V P S	5 / 3 V P S	S U B P S	S H 3 0 7 - A	S H 3 0 7 - B	S H 3 1 3 - A	S H 3 0 7 - A	S H 3 0 7 - B	S H 1 1 - B S H 1 1 - B S S PPS2 EU CL2	S U B P S	5 / 3 V P S	5 / 3 V P S
3 V P S	3 V P S	S H 2 0 0	S H 22 0 0	1 2))				S H 2 0 0	S H 2 0 0	3 V P S	3 V P S
3VPS1A	3VPS1B	BATCTR-11							BATCTR-21	3VPS2B	3VPS2A
					CL	DL					
*4 - DKO	C	L1							CI	_2	

^{*}A: DKC-F460I-UPS

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REV.0 Jun.2001			
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2.3 Shared Memory Module Location



REV.0 Jun.2001		
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2.4 Cache Memory Module Location

1. Standard Cache Memory PCB

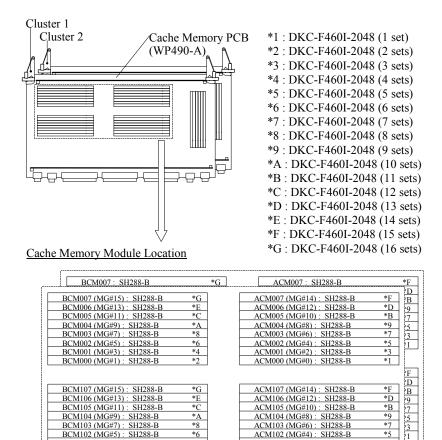


Fig. 2.4-1 Cache Memory Module Location

ACM102 (MG#4) : SH288-B ACM101 (MG#2) : SH288-B

ACM100 (MG#0): SH288-B

*1

*6 *4 *2

BCM102 (MG#5): SH288-B BCM101 (MG#3): SH288-B

BCM100 (MG#1): SH288-B

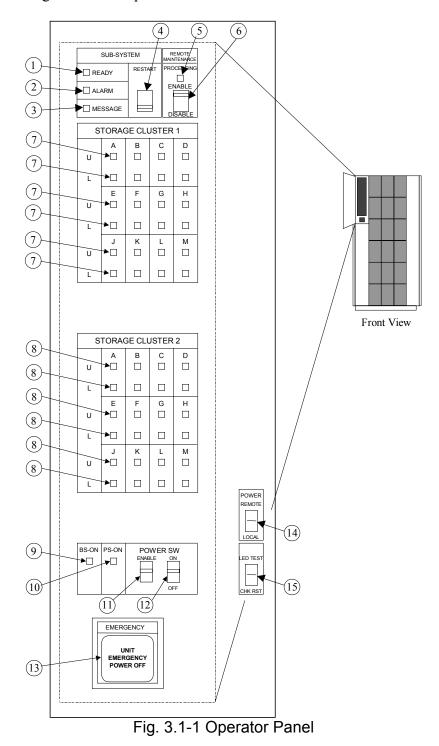
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3 Panel

3.1 Operator Panel

[1] Operator Panel

Fig. 3.1-1 and Table 3.1-1 show the Operator Panel and its functions respectively. Circled numbers in Fig. 3.1-1 correspond to the numbers in Table 3.1-1.



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Table 3.1-1 Part Function on Operator Panel

3.7	T		rt Function on Operator Panel
No.	Parts Name	Class	Function
1	SUBSYSTEM READY	LED	Indicates that input/output operation on the channel interface is
	GLID GLIGGEDIA AL ADIA	(Green)	enabled.
2	SUBSYSTEM ALARM	LED	ON: Indicates DC under voltage of DKC part, DC over
		(Red)	current, abnormally high temperature, or an
			unrecoverable failure occurred.
2	SUBSYSTEM MESSAGE	LED	Blinking : Indicates DC under voltage of DKU part. ON : Indicates that a SIM (Message) was generated from either
3	SUBSTSTEM MESSAGE	(Amber)	ON: Indicates that a SIM (Message) was generated from either of the clusters. Applied to both storage clusters.
		(Alliber)	Blinking: Indicates that the SVP failure has occurred.
4	SUBSYSTEM RESTART	Switch	Used to unfence the fenced drive path and to release Write Inhibit.
5	REMOTE MAINTENANCE	LED	Indicates that remote maintenance is being processed.
	PROCESSING	(Amber)	indicates that remote maintenance is being processed.
6	REMOTE MAINTENANCE	Switch	Used to permit remote maintenance.
	ENABLE/DISABLE	Switch	osed to permit remote maintenance.
7	STORAGE CLUSTER 1	LED	Serial Channel/Fibre Channel:
	CHANNEL A-M	(Green)	(1) On: Indicates some of the logical paths are established.
		,	(2) Fast blinking: Indicates that the corresponding channel route is
	U: UPPER		executing the channel command. (Only Serial Channel)
	L: LOWER		(3) Slow blinking: Indicates none of the logical path is established.
			(4) Off: Indicates that the corresponding channel route is not
			enabled.
			When the 16-port CHA is installed, LED of the L side is effective.
8	STORAGE CLUSTER 2	LED	Serial Channel/Fibre Channel:
	CHANNEL A-M	(Green)	(1) On: Indicates some of the logical paths are established.
			(2) Fast blinking: Indicates that the corresponding channel route is
	U: UPPER		executing the channel command. (Only Serial Channel)
	L: LOWER		(3) Slow blinking: Indicates none of the logical path is established.
			(4) Off: Indicates that the corresponding channel route is not enabled.
			When the 16-port CHA is installed, LED of the L side is effective.
9	BS ON	LED	Indicates that the Sub-PS is on.(CL 1 or CL 2)
,	DS OIV	(Yellow)	indicates that the Sub-1 S is on. (CE 1 of CE 2)
10	PS ON	LED	Indicates that the subsystem is powered on.
10		(Green)	indicates that the subsystem is powered on.
11	PWR SW ENABLE	Switch	Used to enable the PWR on/off switch. To enable the PWR on/off
			switch, turn the PWR SW ENABLE switch to the ENABLE
			position.
12	PWR ON/PWR OFF	Switch	To switch on/off the subsystem, use this switch while turning the
			PWR SW ENABLE switch to the ENABLE position. This switch is
			valid when the REMOTE/LOCAL switch is set to the LOCAL
			position.
13	EMERGENCY POWER OFF	Switch	Used to power off the storage subsystem in an emergency situation.
14	PWR ON/PWR OFF	Switch	REMOTE position :
	REMOTE/LOCAL		Subsystem is powered on/off by the instructions from the CPU.
			LOCAL position :
			Subsystem is powered on/off by PWR ON/PWR OFF switch.
15	LED TEST/CHK RESET	Switch	LED TEST position :
			The LEDs on DKC panel go on.
			CHK RESET position:
			The PS ALARM and TH ALARM is reset.

REV.1 Jun.2001 Feb.2002		
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3.2 Other Switches and LEDs

Fig. 3.2-1, Fig.3.2-2, Fig.3.2-3 and Table 3.2-1 show the other switches and LEDs and their functions respectively.

Circled numbers in Fig. 3.2-1 and Fig.3.2-2 correspond to the numbers in Table 3.2-1.

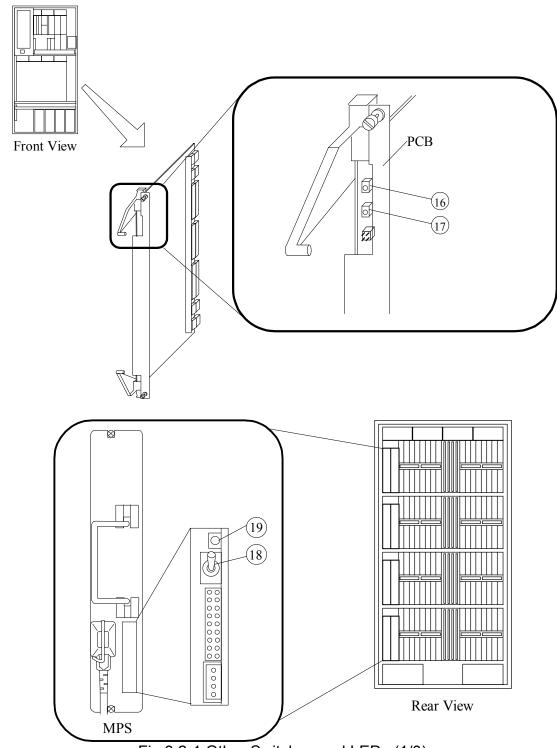


Fig 3.2-1 Other Switches and LEDs (1/3)

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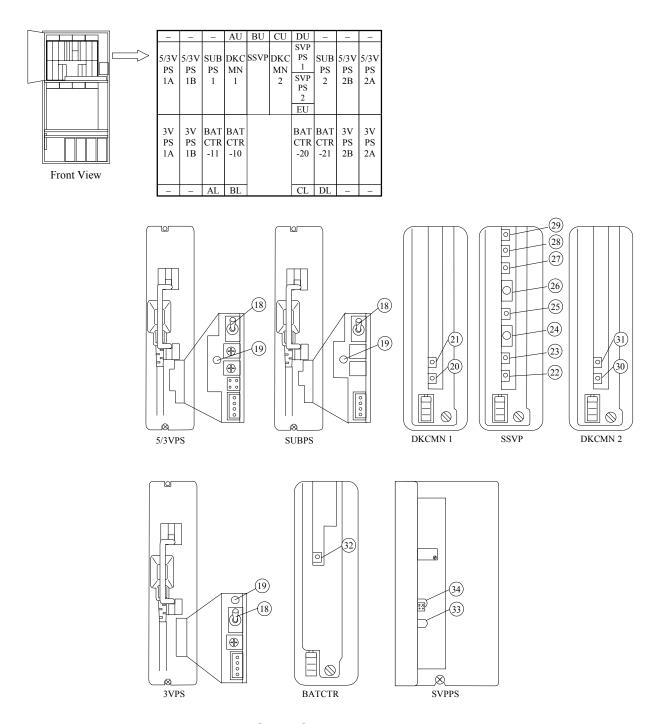
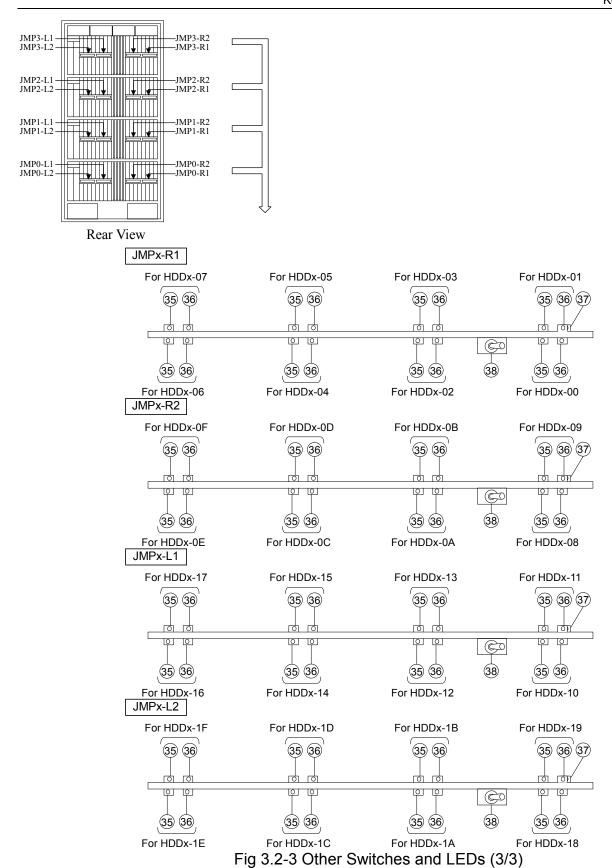


Fig 3.2-2 Other Switches and LEDs (2/3)

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Table 3.2-1 Function of Other Switches and LEDs

No.	Parts Name	Class	Function
16	Shut Down LED	LED (Pad)	Indicates that the removal of the PCB is possible when the
17	PS Failure LED	(Red) LED	subsystem is powered on. Indicate that the voltage in the PCB is abnormal.
1 /	PS Failure LED		Indicate that the voltage in the PCB is abnormal.
10	PS Enable/Disable	(Amber) Switch	Used to power on/off the PS.
18	PS Enable	LED	Indicates that the PS is providing output voltage.
19	PS Eliable	(Green)	indicates that the PS is providing output voltage.
20	DKCMN-1 ENABLE	LED	Indicates that the DKCMN-1 is powered on.
20	DRCMIN-I ENABLE	(Green)	indicates that the DKCMN-1 is powered on.
21	DKCMN-1 Shut Down LED	LED	Indicates that the removal of the DKCMN-1 is possible when the
21	DRCMIN-1 Shut Down LED	(Red)	subsystem is powered on.
22	SSVP ENABLE	LED	Indicates that the SSVP is powered on.
22	SSVI ENABLE	(Green)	indicates that the 33 vi is powered on.
23	SSVP Shut Down LED	LED	Indicates that the removal of the SSVP is possible when the
23	So i I Shut Down LLD	(Red)	subsystem is powered on.
24	SSVP DUMP	Switch	The data in SVP memory is written to the HDD.
25	SSVP ALARM	LED	This LED shows the state of SSVP.
23		(Red)	Lighting BOOT detected abnormality of hardware.
		(1100)	Slow blinking The dump acquisition of SSVP ended.
			Fast blinking Micro Code of SSVP ended abnormally.
26	SSVP ALARM RESET	Switch	The SSVP detection alarm is reset. Then IMPL of the SVP is
			executed.
27		LED	Not used
		(Red)	
28	_	LED	Not used
		(Red)	
29		LED	Not used
		(Red)	
30	DKCMN-2 ENABLE	LED	Indicates that the DKCMN-2 is powered on.
		(Green)	
31	DKCMN-2 Shut Down LED	LED	Indicates that the removal of the DKCMN-2 is possible when the
		(Red)	subsystem is powered on.
32	BATCTR Shut Down LED	LED	Indicates that the removal of the BATCTR is possible when the
		(Red)	subsystem is powered on.
33	SVPPS Shut Down LED	LED	Indicates that the removal of the SVPPS is possible when the
		(Red)	subsystem is powered on.
34	SVPPS ENABLE	LED	Indicates that the SVPPS is powered on.
		(Green)	
35	HDD ENABLE	LED	Indicates that the HDD is active.
2.	HDD CL + D + LED	(Green)	T. F. C. d. C. d. TEDE: T. J. J. J.
36	HDD Shut Down LED	LED	Indicates that the removal of the HDD is possible when the
27	IMD Clast Daniel LED	(Red)	subsystem is powered on.
37	JMP Shut Down LED	LED	Indicates that the removal of the JMP is possible when the
20	DVII France ID	(Red)	subsystem is powered on.
38	DKU Frame ID	Switch	Set this switch according to the position in the fame in which the
			JMP PCB is set.
			Setting Set the switch to the right side position.

Switches and LEDs of SVPPS BOX and HUB BOX

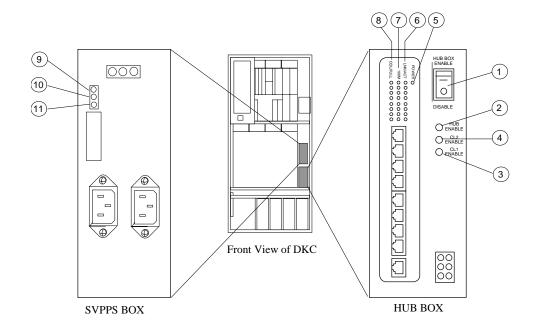


Fig.3.2-2 Switches and LEDs of SVPPS BOX and HUB BOX

Table 3.2-2 Function of Switch and LEDs of SVPPS BOX and HUB BOX

No.	Parts Name	Class	Function				
1	HUB BOX ENABLE/DISABLE	Switch	Used to power on/off the HUB BOX				
2	HUB BOX ENABLE	LED (Green)	Indicate that the HUB BOX is powered on.				
3	CL1 ENABLE	LED (Green)	Indicate that the HUB BOX is powered on				
			(Cluster1)				
4	CL2 ENABLE	LED (Green)	Indicate that the HUB BOX is powered on				
			(Cluster2)				
5	HUB BOX POWER	LED (Green)	Indicate that the HUB BOX is powered on.				
6	LNK/ACK	LED (Green)	This LED shows the state of HUB ports.				
			Lighting Link detected				
			Blinking Data transferred				
7	100M	LED (Green)	Indicate that the 100Mbps mode of HUB port				
8	COL/FULL	LED (Green)	This LED shows the state of HUB ports.				
			Lighting Full Duplex mode				
			Blinking Collision detected				
9	CTL1-PS-READY	LED (Green)	Indicate that the SVPPS-BOX is powered on				
			(Cluster1)				
10	CTL2-PS-READY	LED (Green)	Indicate that the SVPPS-BOX is powered on				
			(Cluster2)				
11	OUTPUT	LED (Green)	Indicate that the SVPPS-BOX is powered on.				

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REV.0 Feb.2002

3.3 Circuit Breakers

3.3.1 Single Phase Model

Fig. 3.3.1-1 shows the locations of Circuit Breakers.

Fig. 3.3.1-2 and Fig. 3.3.1-2A show the connection of power supplies.

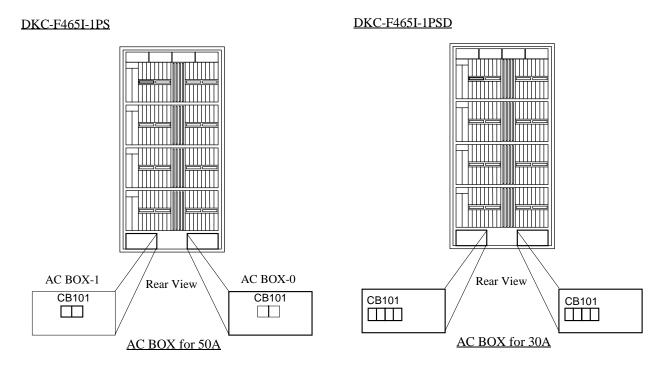


Fig. 3.3.1-1 Locations of Circuit Breakers

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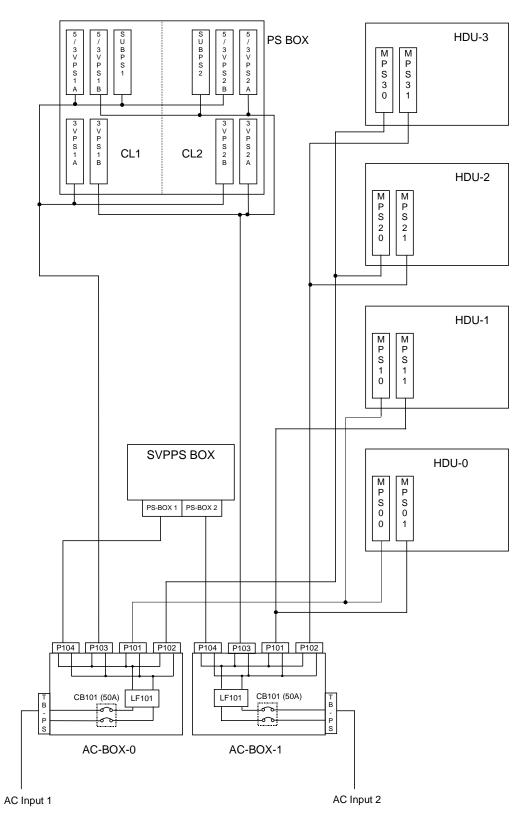


Fig. 3.3.1-2 Connection of Power Supplies for 50A

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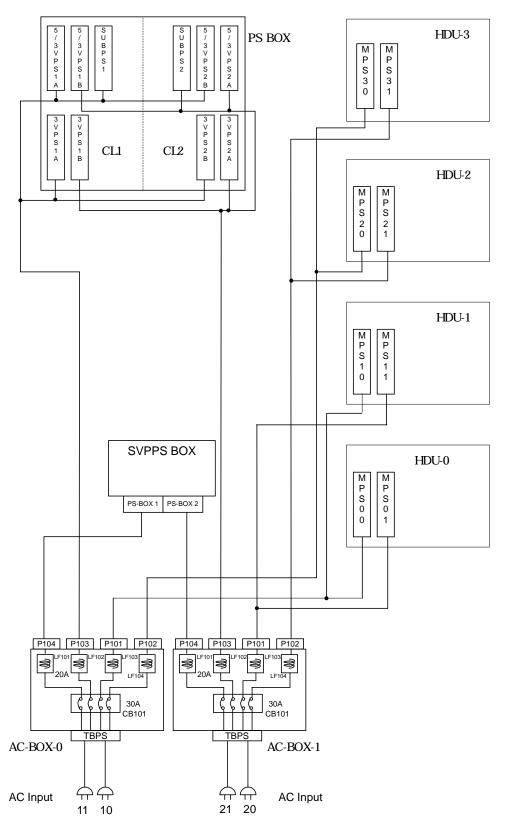


Fig. 3.3.1-2A Connection of Power Supplies for 30A

REV.0 Jun.2002

3.3.2 3 Phase Model

- Fig. 3.3.2-1 shows the locations of Circuit Breakers.
- Fig. 3.3.2-2 shows the connection of power supplies.

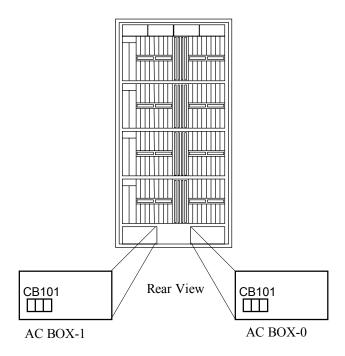


Fig. 3.3.2-1 Locations of Circuit Breakers

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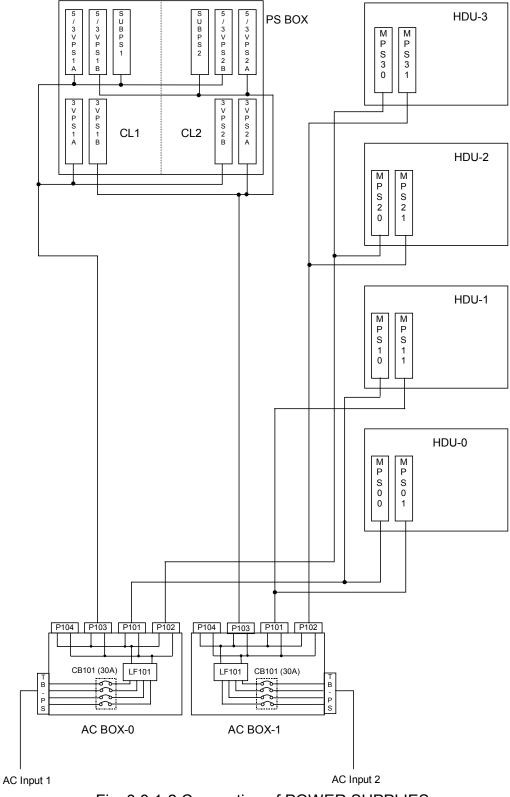


Fig. 3.3.1-2 Connection of POWER SUPPLIES

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4 Connection of External Cable

4.1 AC Cabling

4.1.1 3 Phase/30A Model for USA



DANGER

The DKC465I has Two Main Disconnect Devices (Two Main Breaker CB101s for Dual Power Lines) so that AC Power of the unit can be supplied from the separate power distribution board with Two Power Supply Cords. Refer to LOCATION03-90 "Circuit Breakers".

Observe all instructions described in this manual before connecting the equipment to the power source and before servicing.

A. Connection of Power Supply Cord

The unit has two power supply cords with attachment plug type Thomas & Betts 3760PDG or DDK 115J-AP8508. Be sure to prepare the following socket receptacles and power cords between the power distribution board of the building and the attachment plugs for the unit.

Socket Receptacle: Thomas & Betts 3934

Power Cord: Type ST or equivalent, shielded type, with four min. #8 AWG conductors.

Terminated at one end with an assembled on above socket receptacle cap.

B. Requirements to Branch Circuit

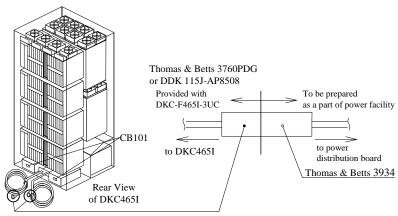
This unit relies on the building installation for protection of the internal components of the equipment. Each line (R/S/T line) should be protected by a short circuit protective device and by an over current protective device rated 30 amp on building installation.

The protective device on building installation shall comply with the NEC requirements (or CEC requirements when installed in Canada), and if a protective device interrupts a conductor, it shall also interrupt all other supply conductors.

This protection is not required for the neutral line of this unit.

C. Disconnection from Power Supply

DKC465I has Two Main Disconnect Device (Two Main Breaker CB101s for Dual Power Lines). To remove all utility power from the unit, turn off both main disconnect device CB101s at the same time.



4.1.2 3 Phase/30A Model for Europe



DANGER

The DKC465I has Two Main Disconnect Devices (Two Main Breaker CB101s for Dual Power Lines) so that AC Power of the unit can be supplied from the separate power distribution board with Two Power Supply Cords. Refer to LOCATION03-90 "Circuit Breakers".

Observe all instructions described in this manual before connecting the equipment to the power source and before servicing.

A. Connection of Power Supply Cord

The unit has two power supply cords. Be sure to prepare the following socket receptacles and power cords between the power distribution board of the building and the power cords for the unit.

Socket Receptacle: As shown in the following figure.

Power Cord: Type H07RN-F or equivalent, with five 6 mm² conductors.

Be sure to connect a power cord to the distribution box as illustrated in the following figure. The wrong connection of neutral line may cause damages or fire of the equipment.

To reduce the risk of wrong connection, you should use approved type attachment plug and socket for power cord connection.

High leakage current may be caused between the power supply and this unit. To avoid an electric shock by high leakage current, perform the protective earth connection before the supply connections and disconnect it after the supply connections.

B. Requirements to Branch Circuit

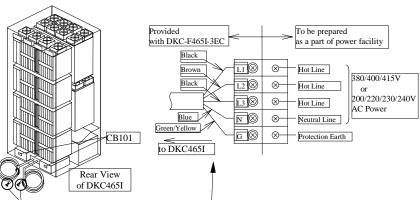
This unit relies on the building installation for protection of the internal components of the equipment. Each line (R/S/T line) should be protected by a short circuit protective device and by an over current protective device rated 30 amp on building installation.

The protective device on building installation shall be comply with National Standards of the country where the units shall be installed, and if a protective device interrupts a conductor, it shall also interrupt all other supply conductors.

This protection is also required for the neutral line of this unit.

C. Disconnection from Power Supply

DKC465I has Two Main Disconnect Device (Two Main Breaker CB101s for Dual Power Lines). To remove all utility power from the unit, turn off both main disconnect device CB101s at the same time.



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4.1.3 Single Phase/50A Model for USA



DANGER

The DKC465I has Two Main Disconnect Devices (Two Main Breaker CB101s for Dual Power Lines) so that AC Power of the unit can be supplied from the separate power distribution board with Two Power Supply Cords. Refer to LOCATION03-70 "Circuit Breakers".

Observe all instructions described in this manual before connecting the equipment to the power source and before servicing.

A. Connection of Power Supply Cord

The unit has two power supply cords with attachment plug type Thomas & Betts 9P53U2. Be sure to prepare the following socket receptacles and power cords between the power distribution board of the building and the attachment plugs for the unit.

Socket Receptacle: Thomas & Betts 9C53U2

Power Cord: Type ST or equivalent, non-shielded type, with three min. #6 AWG conductors.

Terminated at one end with an assembled on above socket receptacle cap.

B. Requirements to Branch Circuit

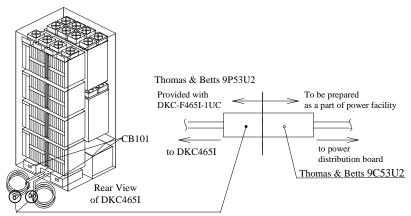
This unit relies on the building installation for protection of the internal components of the equipment. Each line (U/L1, V/L2 line) should be protected by a short circuit protective device and by an over current protective device rated 50 amp on building installation.

The protective device on building installation shall comply with the NEC requirements (or CEC requirements when installed in Canada), and if a protective device interrupts a conductor, it shall also interrupt all other supply conductors.

This protection is not required for the neutral line of this unit.

C. Disconnection from Power Supply

DKC465I has Two Main Disconnect Device (Two Main Breaker CB101s for Dual Power Lines). To remove all utility power from the unit, turn off both main disconnect device CB101s at the same time.



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4.1.4 Single Phase/50A Model for Europe



DANGER

The DKC465I has Two Main Disconnect Devices (Two Main Breaker CB101s for Dual Power Lines) so that AC Power of the unit can be supplied from the separate power distribution board with Two Power Supply Cords. Refer to LOCATION03-70 "Circuit Breakers".

Observe all instructions described in this manual before connecting the equipment to the power source and before servicing.

A. Connection of Power Supply Cord

The unit has two power supply cords. Be sure to prepare the following socket receptacles and power cords between the power distribution board of the building and the power cords for the unit.

Socket Receptacle: As shown in the following figure.

Power Cord: Type H07RN-F or equivalent, with three 10 mm² conductors.

Be sure to connect a power cord to the distribution box as illustrated in the following figure. The wrong connection of neutral line may cause damages or fire of the equipment.

To reduce the risk of wrong connection, you should use approved type attachment plug and socket for power cord connection.

High leakage current may be caused between the power supply and this unit. To avoid an electric shock by high leakage current, perform the protective earth connection before the supply connections and disconnect it after the supply connections.

B. Requirements to Branch Circuit

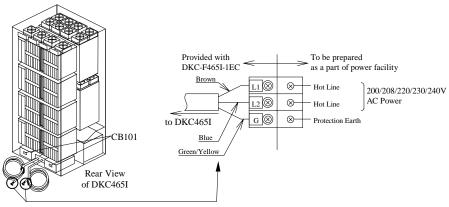
This unit relies on the building installation for protection of the internal components of the equipment. Each line (U/L1, V/L2 line) should be protected by a short circuit protective device and by an over current protective device rated 50 amp on building installation.

The protective device on building installation shall be comply with National Standards of the country where the units shall be installed, and if a protective device interrupts a conductor, it shall also interrupt all other supply conductors.

This protection is also required for the neutral line of this unit.

C. Disconnection from Power Supply

DKC465I has Two Main Disconnect Device (Two Main Breaker CB101s for Dual Power Lines). To remove all utility power from the unit, turn off both main disconnect device CB101s at the same time.



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REV.1 Jun.2001	Jun.2002				
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4.1.5 Single Phase/30A Model for USA



DANGER

The DKC465I has <u>Two Main Disconnect Devices</u> (Two Main Breaker CB101s for Dual Power Lines) so that AC Power of the unit can be supplied from the separate power distribution board with <u>Four Power Supply Cords</u>. Refer to <u>LOCATION03-70</u> "Circuit Breakers".

Observe all instructions described in this manual before connecting the equipment to the power source and before servicing.

A. Connection of Power Supply Cord

The unit has four power supply cords with attachment plug type Thomas & Betts 3750DP. Be sure to prepare the following socket receptacles and power cords between the power distribution board of the building and the attachment plugs for the unit.

Socket Receptacle: Thomas & Betts 3933

Power Cord: Type SJT or equivalent, non-shielded type, with three min. #10 AWG conductors. Terminated at one end with an assembled on above socket receptacle cap.

B. Requirements to Branch Circuit

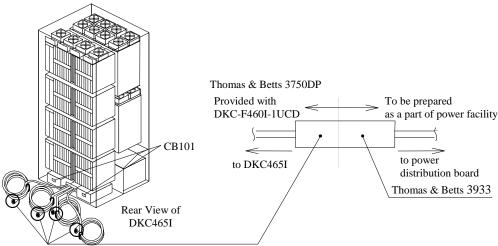
This unit relies on the building installation for protection of the internal components of the equipment. Each line (U/L1, V/L2 line) should be protected by a short circuit protective device and by an over current protective device rated 30 amp on building installation.

The protective device on building installation shall comply with the NEC requirements (or CEC requirements when installed in Canada), and if a protective device interrupts a conductor, it shall also interrupt all other supply conductors.

This protection is not required for the neutral line of this unit.

C. Disconnection from Power Supply

DKC465I has Two Main Disconnect Devices (Two Main Breaker CB101s for Dual Power Lines). To remove all utility power from the unit, turn off both main disconnect device CB101s at the same time.



REV.0 Jun.2002		
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4.1.6 Single Phase/30A Model for Europe



DANGER

The DKC465I has Two Main Disconnect Devices (Two Main Breaker CB101s for Dual Power Lines) so that AC Power of the unit can be supplied from the separate power distribution board with Four Power Supply Cords. Refer to LOCATION03-70 "Circuit Breakers".

Observe all instructions described in this manual before connecting the equipment to the power source and before servicing.

A. Connection of Power Supply Cord

The unit has four power supply cords. Be sure to prepare the following socket receptacles and power cords between the power distribution board of the building and the power cords for the unit.

Socket Receptacle: As shown in the following figure.

Power Cord: Type H07RN-F or equivalent, with three 6 mm² conductors.

Be sure to connect a power cord to the distribution box as illustrated in the following figure. The wrong connection of neutral line may cause damages or fire of the equipment.

To reduce the risk of wrong connection, you should use approved type attachment plug and socket for power cord connection.

High leakage current may be caused between the power supply and this unit. To avoid an electric shock by high leakage current, perform the protective earth connection before the supply connections and disconnect it after the supply connections.

B. Requirements to Branch Circuit

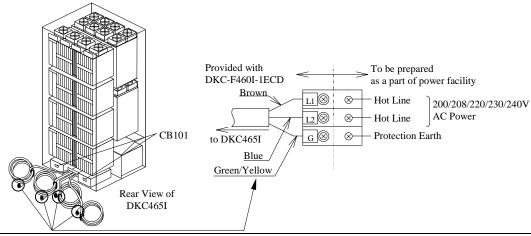
This unit relies on the building installation for protection of the internal components of the equipment. Each line (U/L1, V/L2 line) should be protected by a short circuit protective device and by an over current protective device rated 30 amp on building installation.

The protective device on building installation shall be comply with National Standards of the country where the units shall be installed, and if a protective device interrupts a conductor, it shall also interrupt all other supply conductors.

This protection is also required for the neutral line of this unit.

C. Disconnection from Power Supply

DKC465I has Two Main Disconnect Devices (Two Main Breaker CB101s for Dual Power Lines). To remove all utility power from the unit, turn off both main disconnect device CB101s at the same time.

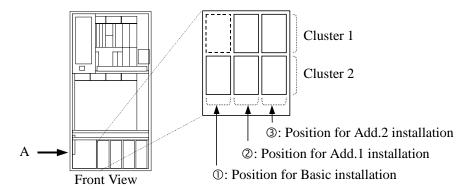


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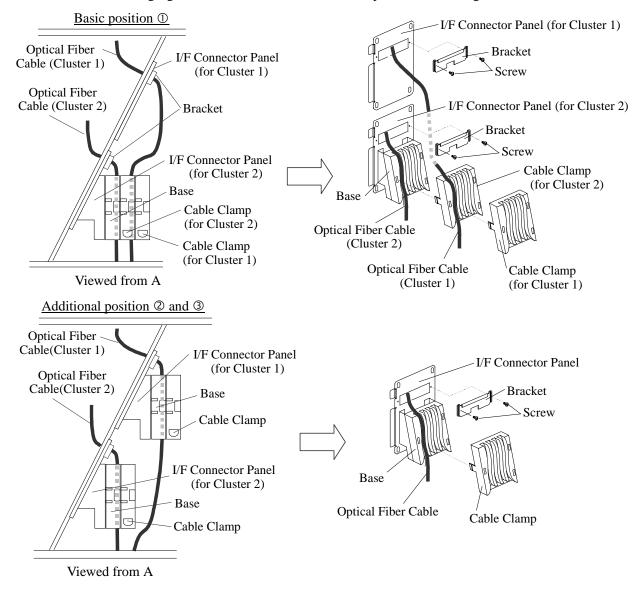
REV.0 Jun.2	2002				
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4.2 Channel Interface

The interface connector panel location is shown in the following figure.



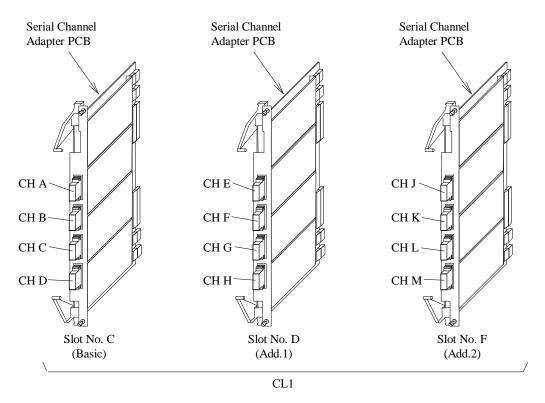
Refer to the following figure for how to attach the cable clamp and cable routing.

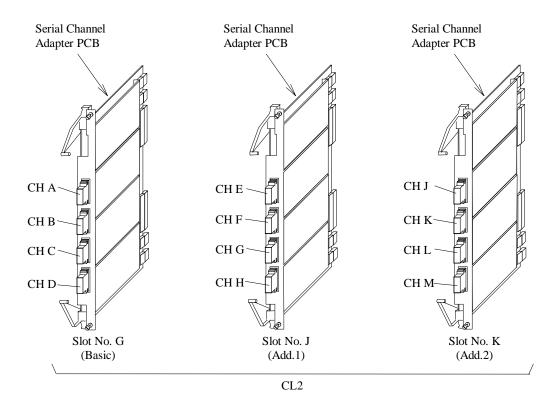


REV.1 Jun.2001	Feb.2002				
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[1] Serial Channel Interface

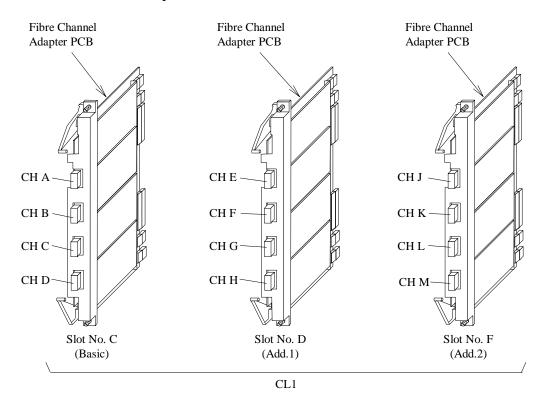
CH A to CH M are effective to LED by the side of U of STORAGE CLUSTER 1 and STORAGE CLUSTER 2 on the Operator Panel.

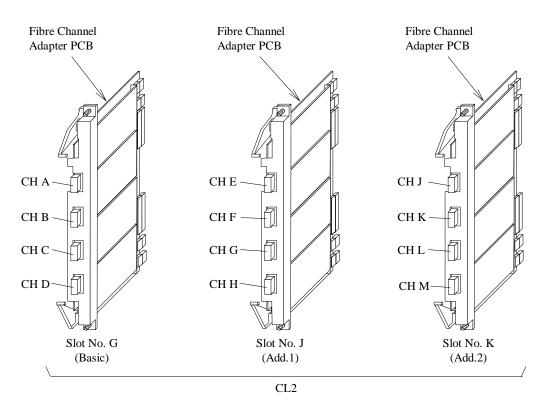




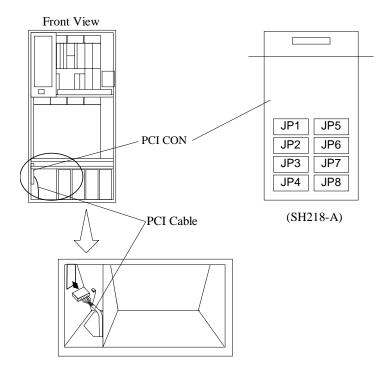
[2] Fibre Channel Interface

CH A to CH M are effective to LED by the side of U of STORAGE CLUSTER 1 and STORAGE CLUSTER 2 on the Operator Panel.





4.3 PCI Cabling



REV.0 Jun.2001

5 Internal Cabling Block Diagram

5.1 Internal Cable Connection of Disk Controller

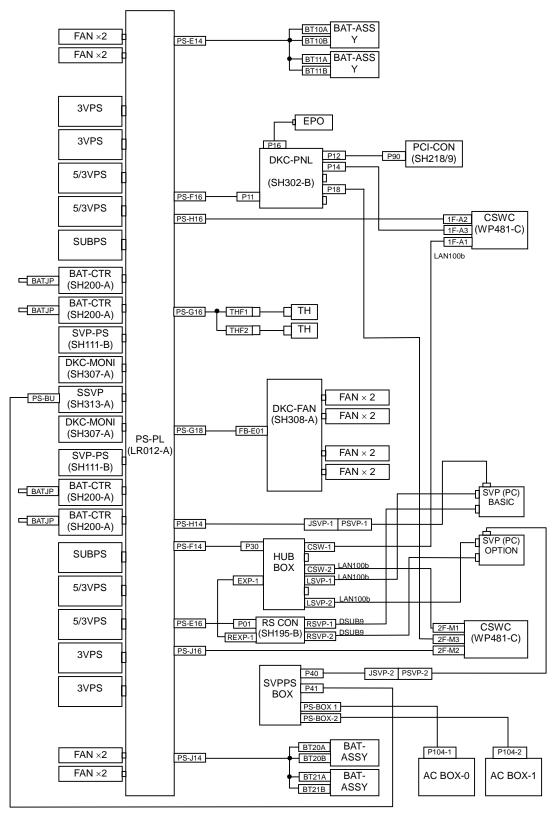


Fig. 5-1 Subsystem Internal Cabling Diagram

5.2 Cable Connection between DKA and HDU

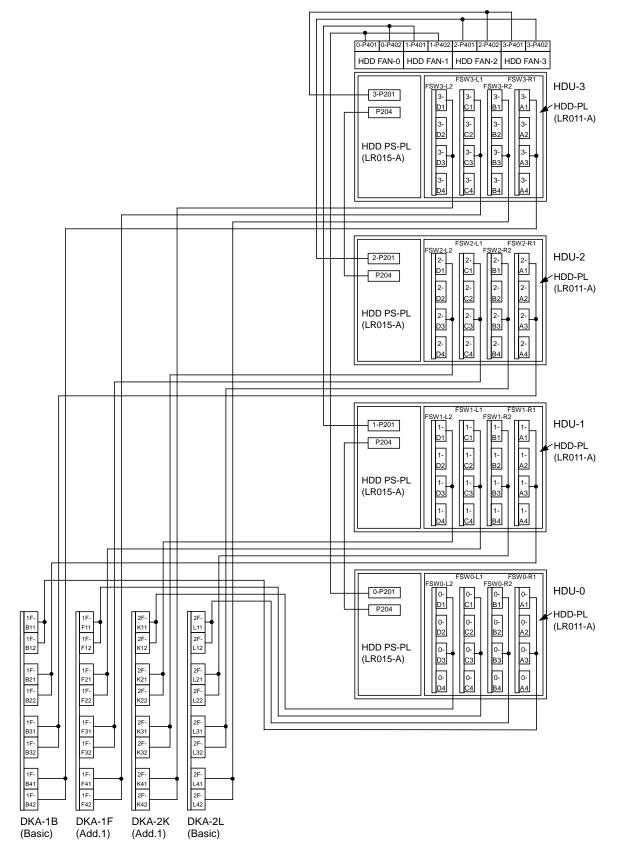


Fig. 5-2 Cable Connection Diagram between DKA and HDU

5.3 Channel Interface Cabling

DKC-F460I-8S

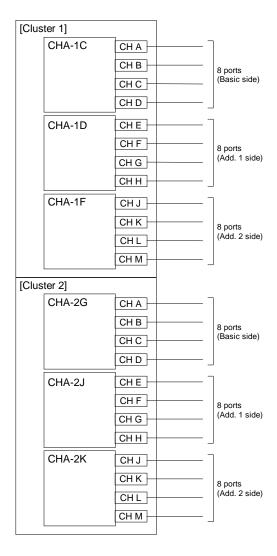


Fig. 5-3 Channel Interface Cabling Diagram $\ \, \oplus \ \,$

DKC-F460I-8GSE/4HSE/8HSE/8HLE

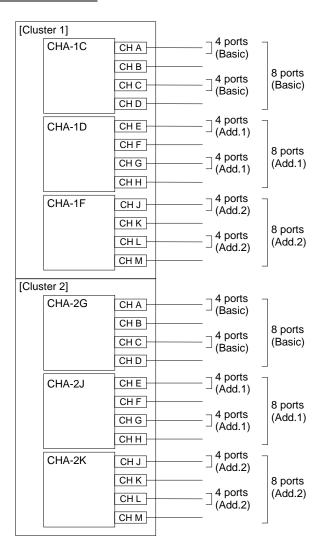


Fig. 5-3 Channel Interface Cabling Diagram @

REV.1	Jun.2001	Feb.2002				
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5.4 LAN Cabling

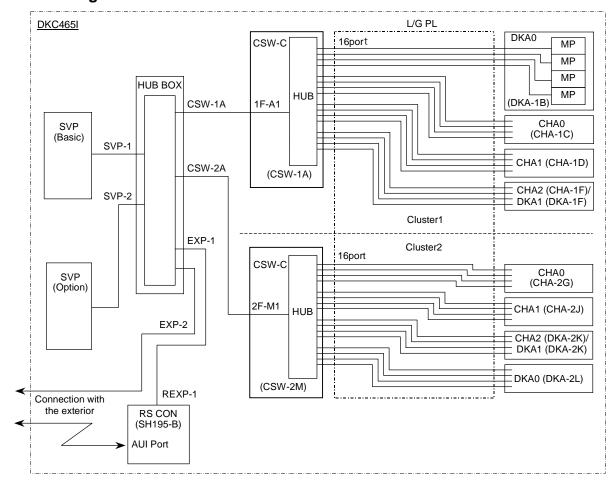


Fig.5-4 LAN Cabling Diagram

REV.0 Feb.2002		
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6 Jumper Setting

6.1 Shut Down Jumpers

[1] Front Logic Box

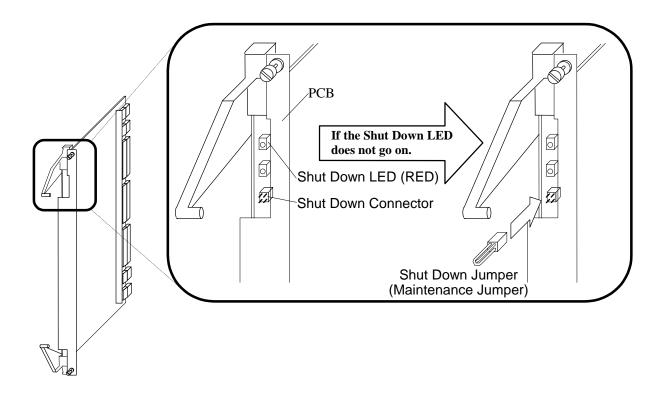
Check that the Shut Down LED is turned on. If not, connect the Shut Down Jumper (Maintenance Jumper) to the Shut Down Connector. (Only hot replace procedure)

A CAUTION

A system down may be caused if the Maintenance jumper is inserted in a PCB other than that to be replaced. Make sure that it is the PCB to be replaced.

Table 6.1 Shut Down Jumpers List

No.	Function Name	Function	Remarks
1	Channel Adapter	Shut down jumper	
2	Disk Adapter		
3	Cache		
4	CSW		



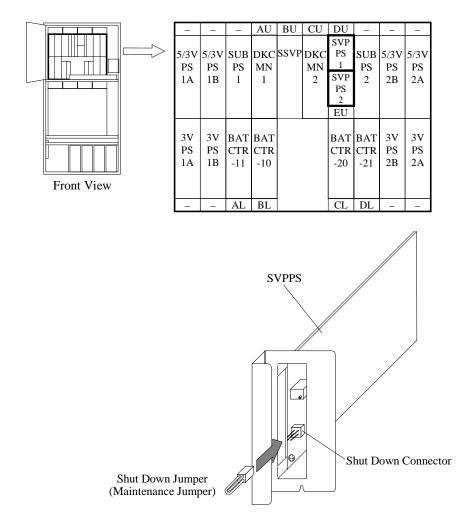
REV.0 Jun.2001		
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[2] SVP PS

When replacing the SVP PS PCB, perform the replacement after blocking it forcibly by inserting the Shut Down Jumper (Maintenance Jumper) regardless of turning on or off of the Shut Down LED.

A CAUTION

A system down may be caused if the Maintenance jumper is inserted in a PCB other than that to be replaced. Make sure that it is the PCB to be replaced.



REV.0 Jun.2001		
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6.2 Other Jumpers

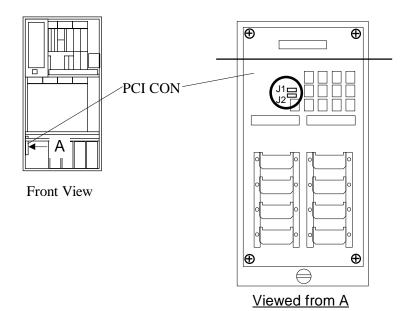
Table 6.2 Jumper Stetting List

No.	Function Name	Jumper No.	Settings	Remarks
1	PCI CON	J1	EPO signal	
		J2	EPO signal	
2	RS CON	JP1	Shut Down Jumper	
		JP2	SVP PS ON/OFF INH Jumper	
3	SVPPS BOX	PS SD	Shut Down Jumper	
		PS CTLINH	SVP PS ON/OFF INH Jumper	
4	BAT CTR		Jumper connector (BATJP)	
5	DKC PANEL	JP1	Not used	
		JP2	Alarm INH Jumper (AI)	
		JP3	Not used	
		JP4	Not used	
6	DKCMN	JP1	DKC Panel INH Jumper	
7	DKCMN	JPA2	Server Shutdown Setup Jumper	
	for UPS			
8	SVPPS	JP1	Output Voltage	
9	MPS		Specification of HDU Box ID	
			Specification of DKU Frame ID	
10	JMP	Switch	Specification of DKU frame ID	

REV.0 Jun.2	2001				
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[1] PCI CON

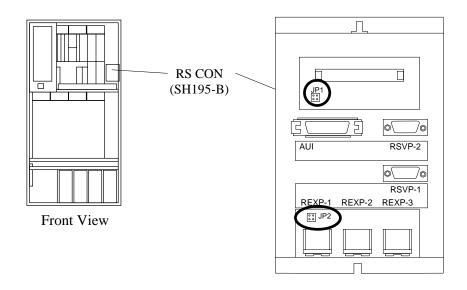
Function Name	Setting	J1 and J2 Setting
PCI CON	When power is controlled from the host (at least	1 2 3
	one PCI cable attached to JP1-JP8 on PCI CON	J1 • • •
	PCB), set the jumpers as shown.	1 2 3
		J2 • • •
	When power is not controlled from the host, no	1 2 3
	PCI Cable attached to JP1-JP8 PCI CON PCB or to	J1 • • •
	disable the EPO of host, set the jumpers as shown.	1 2 3
		J2 • • •

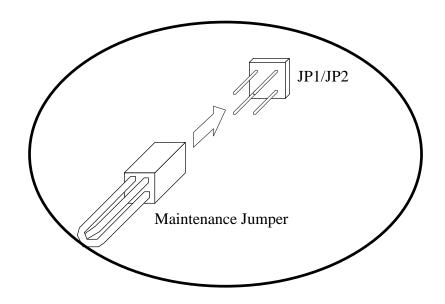


REV.0 Jun.2001		
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[2] RS CON

Function Name	Jumper No.	Setting	Remarks
RS CON	JP1	The basic SVP is powered off forcibly	
		by inserting the Maintenance Jumper.	
	JP2	The basic SVP Power ON/OFF	
		Function of SVP/HUB is inhibited by	
		inserting the Maintenance Jumper.	

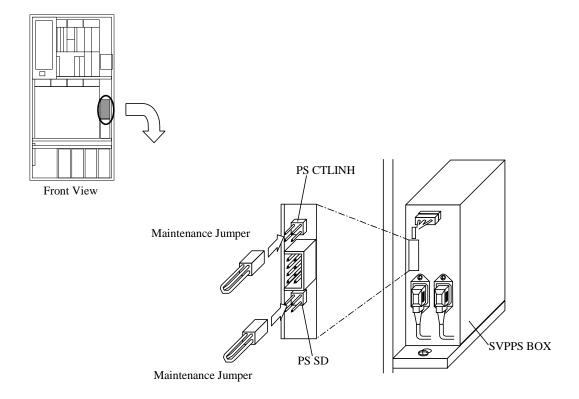




REV.0 Jun.2001			
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[3] SVPPS BOX

Function Name	Jumper No.	Setting	Remarks
SVPPS BOX	PS SD	The additional SVP is powered off	
		forcibly by inserting the Maintenance	
		Jumper.	
	PS CTLINH	The additional SVP Power ON/OFF	
		Function of SVP/HUB is inhibited by	
		inserting the Maintenance Jumper.	



REV.0 Jun.2001			
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[4] BAT CTR

This jumper is set in order to validate the battery for backing up data on the cache memory and shared memory when an AC power failure occurs.

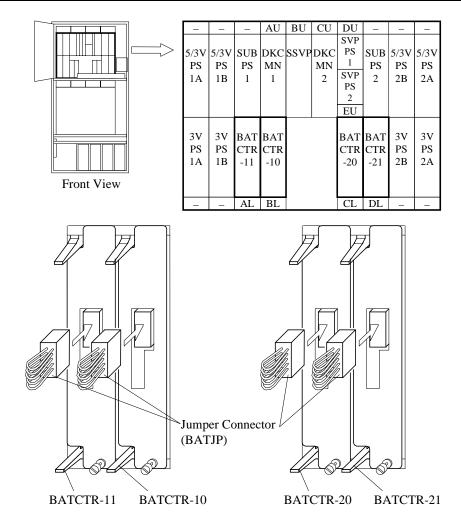
Table 6.3 Backup Duration Time for Each Memory

No.	Memory to be backed up	Maximum backup duration time
1	Shared Memory	168 hours (seven days)
2	Cache Memory	48 hours (two days)

Caution: When the battery jumper is not set, data on the cache memory and shared memory are not assured when an power failure occurs. As a result, all the data on the cache memory and shared memory are lost causing a destruction of user data.

Be sure to set the battery jumper.

Notice: When the subsystem power is to be turned off for longer than 48 hours, the battery jumper must be removed to protect the battery from deterioration. In this case, remove the battery jumper after making sure that the powering off process of the subsystem has been completed normally.

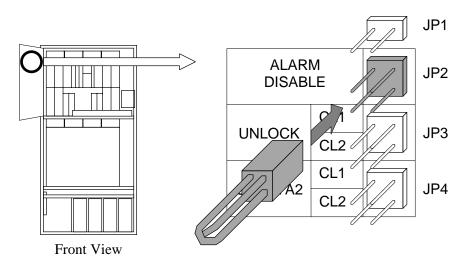


REV.1 Jun.2001	Feb.2002				
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[5] DKC PANEL

Function Name	Jumper No.	Setting	Remarks
DKC PANEL	JP1	Not used	
	JP2	The voltage and thermal alarm signals are inhibited by inserting Maintenance Jumper.	
	JP3	Not used	
	JP4	Not used	

Rear View of DKC PANEL

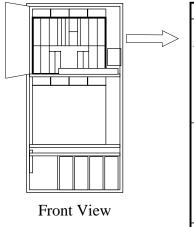


Maintenance Jumper

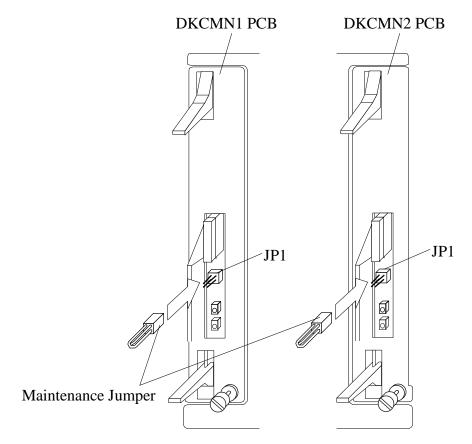
REV.0 Jun.2001		
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[6] DKCMN

Function Name	Jumper No.	Setting	Remarks
DKCMN1	JP1	The Power ON/OFF function is	
or		inhibited by inserting Maintenance	
DKCMN2		Jumper.	



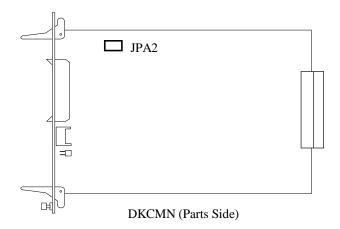
_	_	l – .	AU	BU	CU	DU	_	_	_
5/3V PS 1A	5/3V PS 1B	SUB PS 1	DKC MN 1	SSVP / HUB	DKC MN 2	SVP PS 1 SVP PS 2	SUB PS 2	5/3V PS 2B	5/3V PS 2A
3V PS 1A	3V PS 1B	BAT CTR -11	CTR -10			BAT CTR -20	BAT CTR -21	3V PS 2B	3V PS 2A
	_	AL	BL			CL	DL	_	_



REV.1 Jun.2001	Feb.2002				
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[7] DKCMN for UPS

Function Name	Jumper No.	Setting	Time	JPA2 Setting
DKCMN 1 or DKCMN 2	JPA2	Select the necessary time from four of right column and set it up to shutdown a server. When set time elapsed, a PS OFF	2.5 minutes	3 18 Fixed Black Jumper 1 16
		sequence of a subsystem is started.	5 minutes	3 18 Fixed Black Jumper
			10 minutes	3 18 Fixed Black Jumper 1 16
			20 minutes	3 18 Fixed Black Jumper

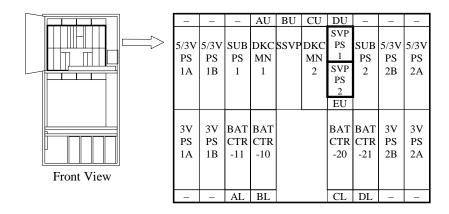


REV.0 Jun.2001

[8] SVP PS

JP1: Output Voltage

Function Name	Jumper No.	Setting	JP1 Setting
SVP PS 1 or SVP PS 2	JP1	By setting these jumper pins output voltage of the SVP PS PCB to be supplied to the SVP is determined.	JP1 3 6 4 9 7 12 10

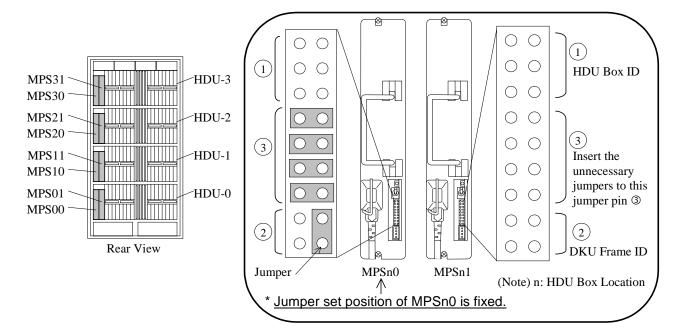




SVP PS1 or SVP PS 2 (Parts Side)

REV.0 Jun.2	2001				
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[9] MPS



Specification of HDU Box ID

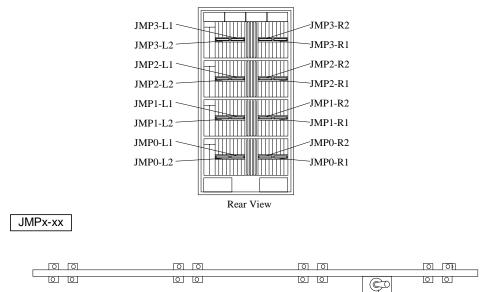
Specification of F			
Setting	MPS Location	Location	JP01 Setting
Specification of HDU Box ID	MPS01	HDU-0	
	MPS11	HDU-1	
	MPS21	HDU-2	
	MPS31	HDU-3	

Specification of DKU Frame ID

Setting	MPS Location	Location	Setting
Specification of	MPS01	HDU-0	עה עה
DKU Frame ID	MPS11	HDU-1	
	MPS21	HDU-2	
	MPS31	HDU-3	

REV.1 Jun.2001	Feb.2002				
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[10] JMP



Setting	Function Name	Jumper No.	Switch Setting
Specification of DKU Frame ID	JMPx-xx	Switch	Switch Set the switch to the right side position (fixed).

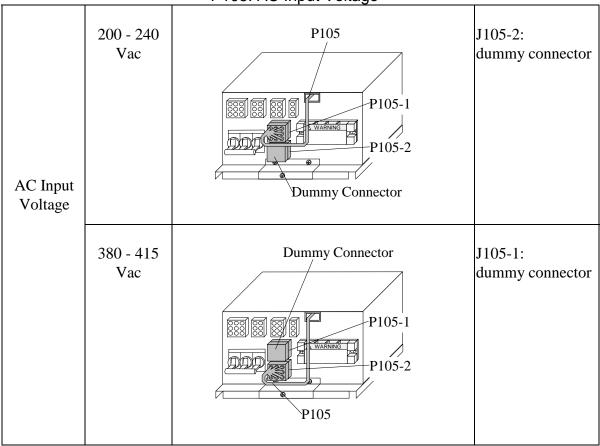
Switch

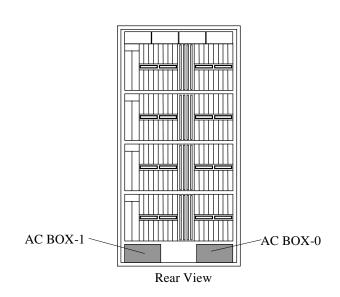
REV.1	Jun.2001 Feb.2002				
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6.3 Voltage Selector

[1] AC BOX (3 Phase Model)

P105: AC Input Voltage





REV.0 Jun.2001			
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