

5A

MKS-8700

## DCU-8000 Mechanical Replacement

### MKS-8700 Material for Mechanical Parts

- ☐ Removing Front Panel Assembly
- ☐ Replacing Plug-in Board
- ☐ Replacing Connector Board
- ☐ Replacing Power Supply Unit
- ☐ Replacing Fan
- ☐ Replacing HN-276 Board
- ☐ Replacing CPU module
- ☐ Replacing the Hard Disk
- ☐ How to format the Hard Disk

#### CAUTION

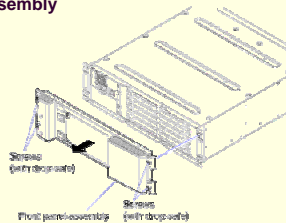
Be sure to set POWER switch to OFF and unplug power cord before starting any replacement work to protect inside of machine from damage. If replacement work is attempted with power ON, this may result in electric shock or damage of circuits.

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### Removing Front Panel Assembly

#### Removal

1. Fully loosen four screws(with drop-safe).
2. Remove front panel assembly in direction of arrow.

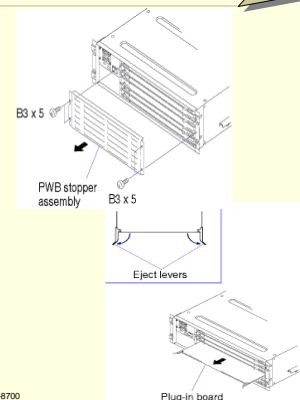


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### Replacing Plug-in Boards

#### Removal

1. Remove Front Panel Assembly. (Please refer to previous slide.)
2. Remove four screws and remove PWB stopper assembly.
3. Open eject levers in direction of arrow as shown and pull board that you want to replace out to remove it.

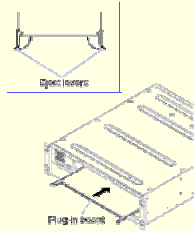


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## Replacing Plug-in Boards

### Installation

1. While eject levers are opened, insert plug-in board into board guide rail.
2. While closing eject levers in direction of arrow, push plug-in board into slot.
3. Install PWB stopper assembly and front door by reversing steps 1 and 2 of removal.



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## Replacing Connector Board

### CN-2194 board / CN-2195

#### Removal

Loosen two screws(with drop-safe) and remove connector board (CN-2194 board or CN-2195 board).  
<NOTE> Please keep blank panel which has been removed.

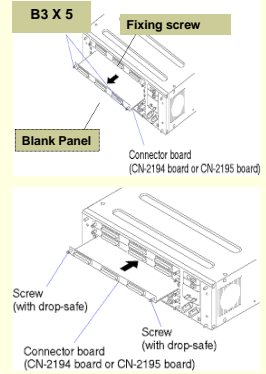
#### Installation

Insert optional connector board horizontally and tighten two fixing screws.

Board Name(optional name) Rear SLOT

CN-2195(MKS-8701) Insert it into slot at rear. It corresponds to RC-90 board which is inserted into slot at front.

CN-2194(MKS-8702) Insert it into slot at rear. It corresponds to IF-848 board which is inserted into slot at front.



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## Replacing Connector Board

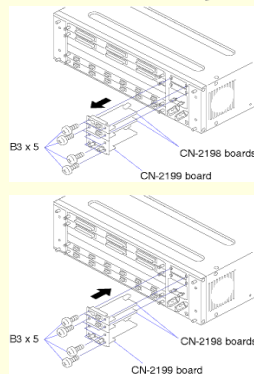
### CN-2198 board / CN-2199 board

#### Removal

Remove screws of slot that you want to replace board and remove connector board (CN-2198 board or CN-2199 board).

#### Installation

Insert new connector board (CN-2198 board or CN-2199 board) into slot and tighten fixing screws.



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## Replacing Power Supply Unit

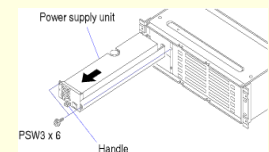
### Notes on replacement:

MKS-8700: Serial No. 10001 to 11000

- Use following power supply unit for replace unit:  
Power supply unit HK-PSU03, or Power ASSY (Part No.: A-1122-323-A)
- If you replace redundant power supply with new power ASSY (Part No.: A-1109-858-A), use new power ASSY (Part No.: A-1109-858-A) for both units.
- When replacing unit, check suffix of part No. of HN-276 board. If suffix is -12, replace it with HN-276 board with suffix -13 or -14 (Part No.: A-8323-976-A).
- Refer to "Replacing HN-276 Board".

#### Removal

1. Remove front panel assembly.
2. Remove two screws and pull power supply unit out by holding handle.



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## Replacing Power Supply Unit

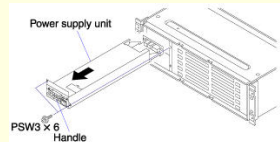
### Notes on replacement:

**MKS-8700: Serial No. 11001 and Higher**

- Use new power ASSY (Part No.: A-1109-858-A) for replacement unit
- Redundant operation with power supply unit HK-PSU03, or with power ASSY (Part No.: A-1122-323-A) is not possible.

### Removal

1. Remove front panel assembly.
2. Remove two screws and pull power supply unit out by holding handle.



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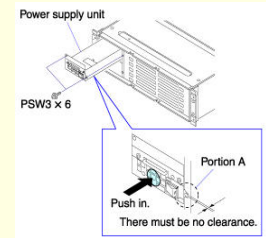
## Replacing Power Supply Unit

### Caution!

- If installation of power supply unit is incomplete, contact resistance of connector increases. This may result in damage of parts and smoke.
- Tighten fixing screws of power supply unit securely.
- Do not turn on power before power supply unit is firmly secured.

### Installation

Install new power supply unit by reversing steps of removal.

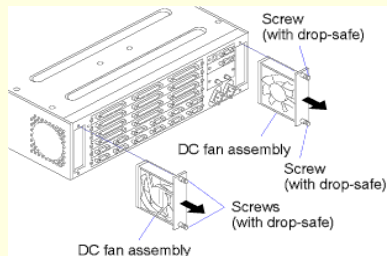


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## Replacing Fan

### Removal

- 1) Fully loosen two screws (with drop-safe) and pull DC fan assembly out in direction of arrow by holding fixing screws.
- 2) Remove two screws and remove fan panel.

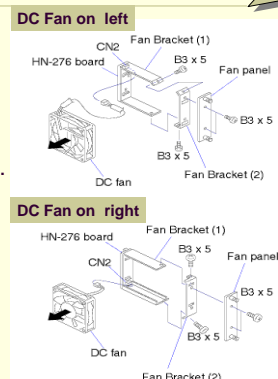


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## Replacing Fan

### Removal (cont'd)

- 3) Remove two screws and remove fan bracket (2).
- 4) Slide DC fan in direction of arrow from fan bracket (1). Disconnect harness from connector (CN2) of HN-276 board.



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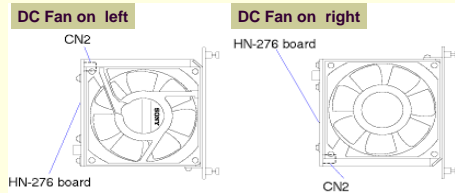
## Replacing Fan

### Installation

Install new fan by reversing steps of removal.

### NOTE

Install DC fans in right and left to their specified positions as shown in illustration.



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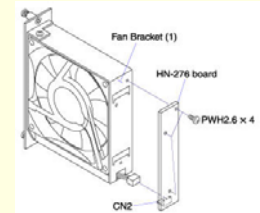
## Replacing HN-276 Board

### Note

The MKS-8700 uses two DC fans.

### Removal

1. Remove DC fan assembly.
2. Remove three screws and remove HN-276 board from fan bracket(1).
3. Disconnect harness from connector (CN2) on HN-276 board.

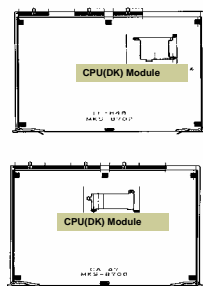


### Installation

Install new HN-276 board by reversing steps of removal.

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## Replacing CPU module



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## Replacing CPU module of CA-47 board

### Removal

1. Remove CA-47 board.
2. Remove two screws and washer.
3. Remove bracket (K).
4. Remove CPU-DK module from connector of board.

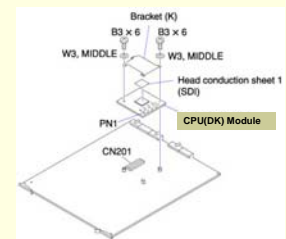
### Installation

1. Confirm that CPU-DK module is placed in correct direction allowing connector (PN1) of CPU-DK module to be connected to connector (CN201) on CA-47 board.
2. Insert CPU-DK module to connector on CA-47 board.

### Note:

Confirm connection is secure.

3. Install CA-47 board by reversing steps of removal.



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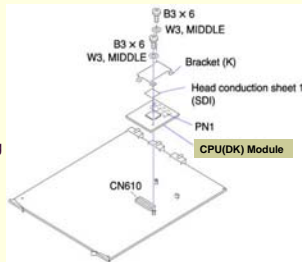
## Replacing CPU module of IF-848 board

### Removal

1. Remove IF-848 board.
2. Remove two screws and washer.
3. Remove bracket (K).
4. Remove CPU-DK module from connector of board.

### Installation

1. Confirm that CPU-DK module is placed in correct direction allowing connector (PN1) of CPU-DK module to be connected to connector (CN610) on IF-848 board.
2. Insert CPU-DK module to connector on IF-848 board. Confirm connection is secure.
3. Install IF-848 board by reversing steps of removal.



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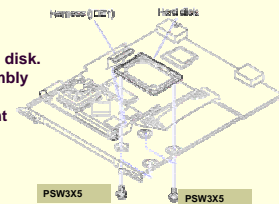
## Replacing the Hard disk

### Removal

1. Remove the front panel and remove Menu CPU assembly from slot 6.
2. Disconnect harness (IDE1) connected to hard disk.
3. Remove four screws and remove hard disk.

### Installation

1. Connect harness (IDE1) to new hard disk.
2. Install hard disk to Menu CPU assembly with four screws.
3. Install Menu CPU assembly and front panel by reversing step 1 of removal.
4. Format new hard disk.



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## Replacing the Hard disk

### <How to format the hard disk>

1. Start up the CCP-8000 (SCU). The following message appears.

*Hard disk is incorrect. Press Alt + F6.*

2. Press the [Alt] key and the [F6] key at the same time. The following message appears.

**WARNING :** *Hard disk is incorrect or not formatted.  
Formatting is erase ALL data on the hard disk.  
To format the hard disk, enter [y]. To quit, hit other key.*

3. Type [y] and press [Enter]. The following message appears.

*Are you sure? [y/n]*

4. Type [y] and press [Enter]. Formatting the hard disk starts.

5. When the formatting is complete, the following message appears.

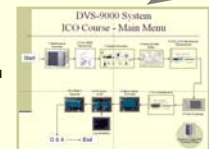
*Formatting is completed.  
Please power off.*

6. Turn off the power and reboot the system.

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## Questions?

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