

PERIODIC CHECK SECTION

Contents

PERIOD01-10	1. Periodic Check List
PERIOD02-10	2. Cleaning
PERIOD03-10	3. Check and Replacement of Battery
PERIOD03-10	3.1 Installation Location of Battery
PERIOD03-20	3.2 Inspecting Battery
PERIOD03-40	3.3 Replacing the battery

1. Periodic Check List

The following table shows the items of the periodic check for the unit.
When the parts are replaced, refer to 'REPLACE SECTION' of this manual.

Confirm the following conditions of the storage system before periodic check.

- There is no blinking part on the maintenance screen of the SVP.
- The MESSAGE LED on the front side of the DKC does not light.
- There is no SIM that is not completed.

Table 1-1 Periodic Check List

No.	Item	Tools	Frequency of Periodic Check	Check Time	Reference Page
1	Cleaning of air filter	<ul style="list-style-type: none">• Vacuum cleaner• Dry cloth	Once per year	10 min. per Unit.	PERIOD02-10
2	Check of battery		Once per year	5 min. per Unit.	PERIOD03-10 to PERIOD03-30
3	Replacement of battery	<ul style="list-style-type: none">• Philips screwdriver	Once per 3 years	10 min. per battery.	PERIOD03-40

2. Cleaning

To clear the Rack frame, check whether or not air vents are clogged by dust. If they are clogged, remove the dust with a vacuum cleaner or wipe the dust out from it with a dry cloth.



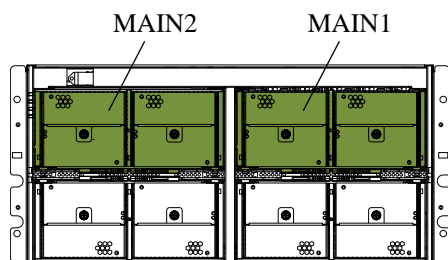
CAUTION

- Be sure to keep the Bezel and rear door clean. Or else, the ventilation is deteriorated so that the temperature inside the Rack may rise causing a failure or even a fire.
- Be careful not to move the Rack frame during cleaning.

3. Check and Replacement of Battery

3.1 Installation Location of Battery

The unit has the batteries shown in Fig. 3.1-1.



Front View of DKC

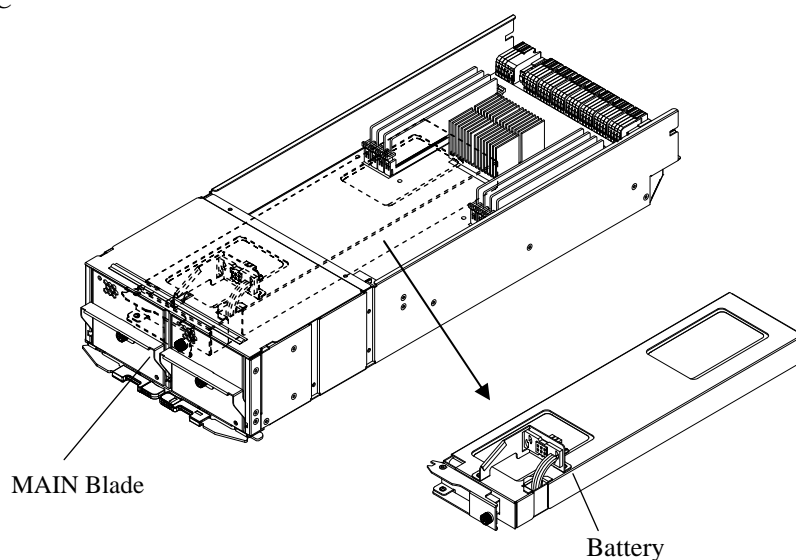


Fig. 3.1-1 Battery Location

3.2 Inspecting Battery

NOTICE:

- Execute all inspections without removing the battery.
- Be sure to wear your wrist strap and attach to ground prior to performing the following work. This will ensure that the IC and LSI on the PCB are protected from static electricity. Refer to “Attaching the Wrist Strap” in [INST03-01-90](#).

(1) Periodic Check of the battery

Execute the annual check of the battery that is installed in the storage system on the following items.

- ① Check whether Battery Warning SIM (SIMRC=BFD01X) and Battery Life Warning SIM (SIMRC=7C010X) has been issued.
- ② Check whether there is any battery fluid leakage or rust on the bottom front of the MAIN Blade, and replace the battery when there is abnormality.

Refer to Work ID RTC7 on the page [REP01-320](#) of REPLACE SECTION for the replacement procedure.

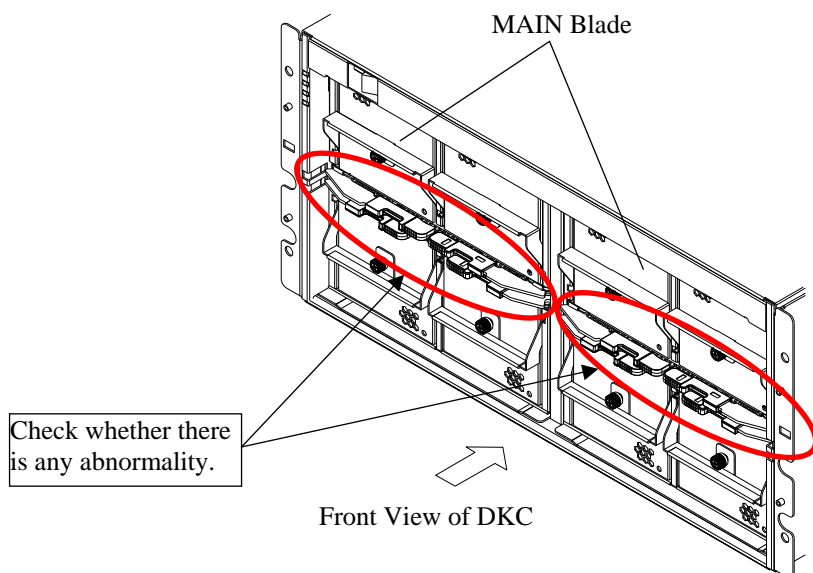


Fig. 3.2-1 Plate Removing

- ③ Check the date of Battery Warning SIM (*1) (Battery Life Warning SIM) of all the MAIN Blades.

- ③-1 Check the date with reference to the page [SVP02-1240](#) of SVP SECTION.



Replace date approaches

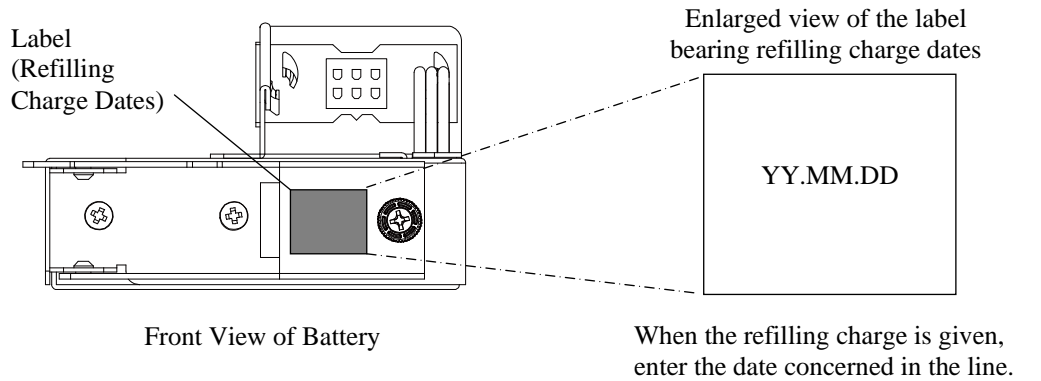
NOTICE: At this time, do not select the check box of [Battery Life Warning SIM] and [Set ...] button.

- ③-2 Replace the battery when the replace date approaches.

*1: The battery must be replaced before reaching the end of the battery life (three years). Battery Warning SIM must be set per battery that is installed in each MAIN Blade to execute the periodic replacement maintenance before reaching the end of the life (three years) of the battery in the storage system.

3.3 Replacing the battery

- (1) Inspection of battery being stored (Batteries installed in the stored Rack are included)
Allowable storage period and specifications for refilling charge of batteries stored as maintenance parts are shown in the following table.



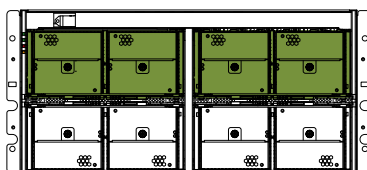
Date of the latest refilling charge			Shipment from the factory			The first refilling charge						The second refilling charge			
Months elapsed	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
				Allowable period of storage at the HDS: 12 months at the longest											
	Period of storage at the ITPF: 3 months at the longest (①)			Period of storage at the HDS: 6 months (②)						Period of storage at the HDS: 6 months (③)					
	↔ Charging is done within 3 months before shipment.			↔ Charging is done within 3 months before shipment.						↔ Charging is done within 3 months before shipment.			➡ Discard the battery when it has been stored for 6 months (③) after the first refilling charge.		
			➡ Discard the battery when it has been stored for 9 months (①+②) after the latest refilling charge.												

Fig.3.3-1 Storage Period and Refilling Charge Specifications for Spare Batteries

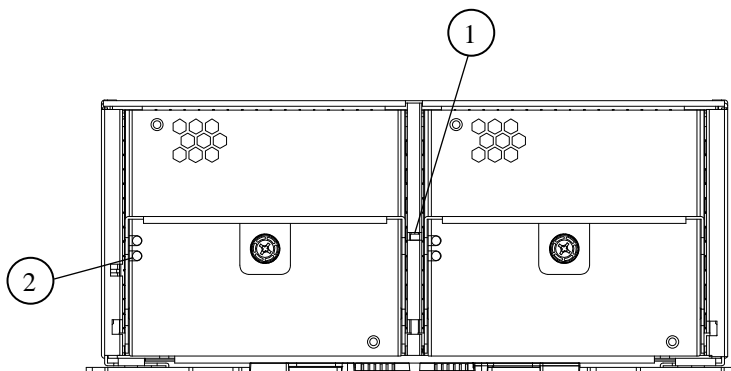
Table 3.3-1 Specifications for Spare Batteries

No.	Allowable storage period	Allowable times of refilling charges	Time when refilling charge is to be done	Method of refilling charge
1	Six months (when stored at 25°C or lower)	Two times	Refer to Fig. 3.3-1.	Mount the battery in the MAIN Blade and apply power to it for longer than 3 hours.

*1: When the refilling charge is done, update the production date of the battery written on the label to the date when the refilling charge is done.



Front View of DKC



MAIN Blade

Fig. 3.3-2 LEDs of Battery

Table 3.3-2 Function of Other Switches and LEDs

No.	Parts Name	Class	Function
1	BATTERY STATUS	LED (Green)	<p>Indicates the battery status.</p> <ul style="list-style-type: none"> • On: The battery charge is completed. • The light blinks once per about 1.6 seconds. (On: about 0.2 seconds, Off: about 1.4 seconds): The battery is charging. • The light blinks twice per about 1.6 seconds. (On: about 0.2 seconds, Off: about 0.2 seconds, On: about 0.2 seconds, Off: about 1 second): The battery is discharging. • Off: The power is off. The battery discharge is completed. The battery has trouble. <p>After the power is turned on, the Battery Box is started to be charged and the LED blinks. Though the LED becomes kept on after the charge is completed, it repeats the operation that indicates the refilling charge (blink) and completion of the refilling charge (being kept on) after that.</p>
2	BATTERY REPLACE	LED (Red)	Indicates that the removal of the BATTERY is possible when the storage system is powered on.

PERIOD03-60

- (2) The battery must be replaced before the service life (3 years). For the replacement procedure, refer to the REPLACE SECTION (Work ID RTC7 on page [REP01-320](#)).
When the replacement is completed, set the warning SIM concerning the battery that demands the next periodic replacement following the directions given on page [SVP02-1240](#) in the SVP SECTION.
- (3) When re-installing the Rack, replace all the batteries.

**CAUTION**

The Battery is an industrial waste. Dispose of it following the directions given by the manufacturer.