PERIODIC CHECK SECTION

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1. PERIODIC CHECK LIST

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

Table 1-1 Periodic Check List

No.	Item	Tools	Frequency of	Check Time	Reference Page
			Periodic Check		
1	Check of DC	• Digital	Once per year	5 min. per logical part	PERIOD 02-10
	voltage	voltmeter			to
		 Voltage check 			PERIOD 02-30
		fixture			
2	Check of air filter	• Vacuum	Once per year	10 min.	PERIOD 03-10
		cleaner			
3	Check and	• Philips	Once per year	Check time:	PERIOD 04-10
	Replacement of	screwdriver		10 min. per subsystem.	to
	battery			Replacement time:	PERIOD 04-20
				10 min. per battery.	

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2. Check of DC Voltage

a. Measure DC +3.3V, DC +5V, and, DC +12V current at the check point with a digital voltmeter. Refer to the following table and figure:

Table 2-1 'Range of Acceptable DC Voltage' on PERIOD 02-10

Fig. 2-1 'Location of Power Supplies' on PERIOD 02-20

Fig. 2-2 'Location of Voltage Check Point' on PERIOD 02-30

Table 2-1 Range of Acceptable DC Voltage

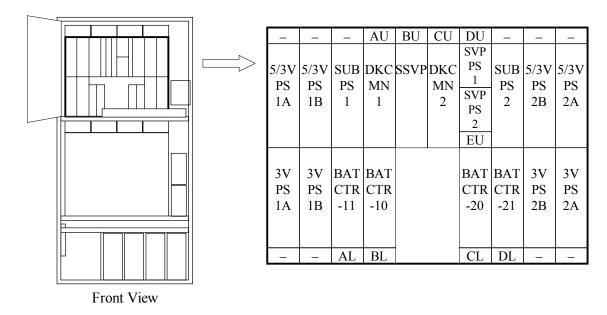
No.	Logic Part	Standard DC Voltage	Acceptable Range	Power Supply	Remarks
140.	Logic I ait	C	(Between +DC and GRD)	Location	Kemarks
1	OL 4 1	1	,		
1	Cluster 1	+5V/+3.3V	5V : +4.95V to +5.30V	5/3VPS1A	
2		(5/3VPS)	3.3V: +3.30V to +3.57V	5/3VPS1B	
3		+3.3V	3.3V: +3.30V to +3.57V	3VPS1A	
4		(3VPS)		3VPS1B	
5		+5V/+12V	5V : +4.90V to +5.20V	SUBPS1	
6		(SUBPS)	12V:+11.83V to +12.57V		
7	Cluster 2	+5V/+3.3V	5V : +4.95V to +5.30V	5/3VPS2A	
8		(5/3VPS)	3.3V: +3.30V to +3.57V	5/3VPS2B	
9		+3.3V	3.3V: +3.30V to +3.57V	3VPS2A	
10		(3VPS)		3VPS2B	
11		+5V/+12V	5V : +4.90V to +5.20V	SUBPS2	
12		(SUBPS)	12V:+11.83V to +12.57V		
13	HDU-0	+5V/+12V	5V : +4.85V to +5.35V	MPS00	
14		(Multi PS)	12V:+11.45V to +12.65V	MPS01	
15	HDU-1	+5V/+12V	5V : +4.85V to +5.35V	MPS10	
16		(Multi PS)	12V:+11.45V to +12.65V	MPS11	
17	HDU-2	+5V/+12V	5V : +4.85V to +5.35V	MPS20	
18		(Multi PS)	12V:+11.45V to +12.65V	MPS21	
19	HDU-3	+5V/+12V	5V : +4.85V to +5.35V	MPS30	
20		(Multi PS)	12V: +11.45V to +12.65V	MPS31	

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b. To check the output voltage of the power supplies, measure it with the voltmeter, by connecting the voltmeter to the voltage check point.

If the output voltage of the power supply is not within the acceptable DC voltage, replace it to the spare part. Refer to REPLACE SECTION [REP01-180].



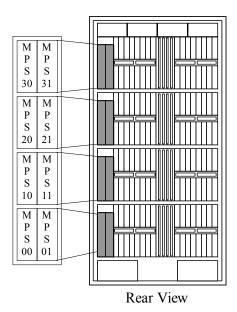
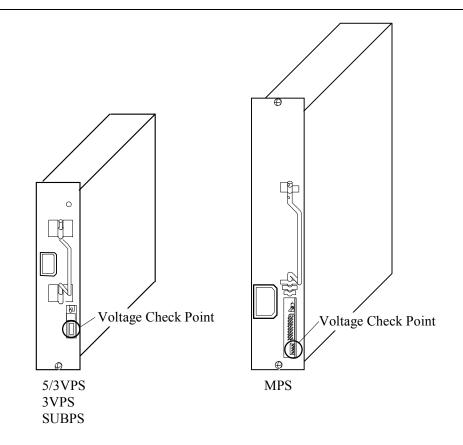


Fig. 2-1 Location of Power Supplies



Voltage Check Point

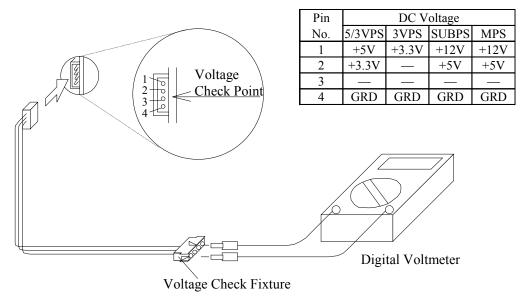


Fig. 2-2 Location of Voltage Check Point

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3. Cleaning of Air Filter

Clean the air filters located at the bottom of the Front Logic Box and inside the front and rear doors. The location of the air filters are shown in Fig. 3-1.

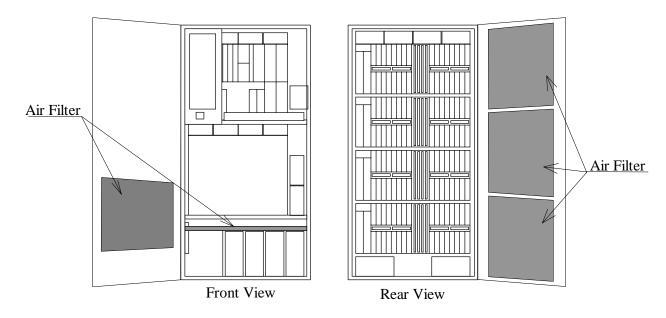


Fig. 3-1 Air Filter Location in DKC

The method of how to remove the air filter is shown below.

(1) How to remove the air filter on the door

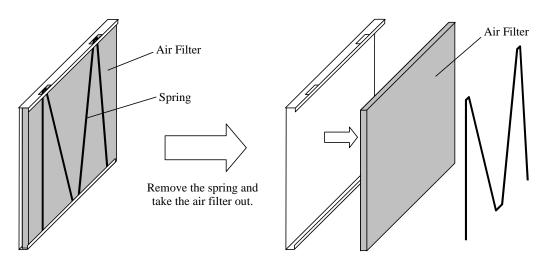


Fig. 3-2 How to Remove Air Filter on Door

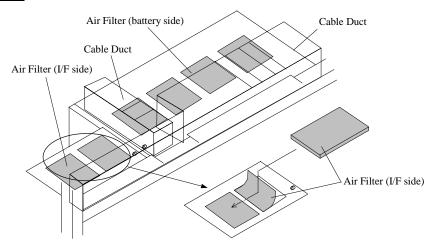
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(2) How to remove the air filter at the bottom of the Front Logic Box
Take out the air filter following the procedure below after removing the cover of the Logic Box,
and then clean them.

When taking out or reinstalling the air filter, work carefully not to catch the channel I/F and DEV I/F cables by it.

There are two types of air filter installed at the bottom of the Front Logic Box, that is, the separate type and unified type.

Separate type air filter



Note: The air filter (battery side) need not be cleaned because it cannot be taken out.

Unified type air filter

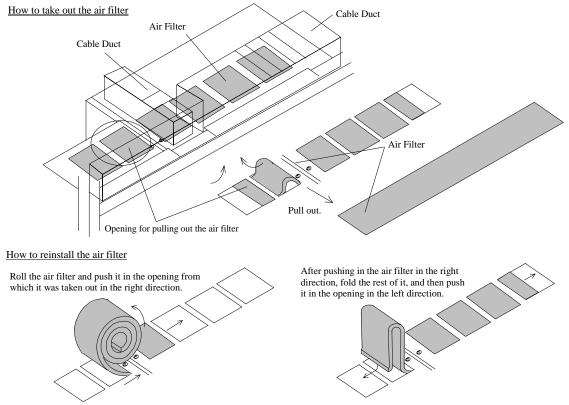


Fig. 3-3 How to Take Out Air Filter Installed at the Bottom of Logic Box

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4. Check and Replacement of Battery

4.1 Type of battery

The DKC has the batteries shown in Table 4.1-1 and Fig. 4.1-1.

Table 4.1-1 Batteries used in DKC

No.	Battery Name	Logic Part
1	BATTERY-10	Cluster 1 Shared Memory
2	BATTERY-11	Cluster 1 Cache Memory
3	BATTERY-20	Cluster 2 Shared Memory
4	BATTERY-21	Cluster 2 Cache Memory

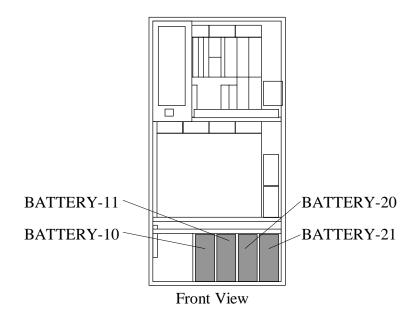


Fig. 4.1-1 Battery Location

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4.2 Inspecting Battery

(1) Periodic inspection of the battery

Inspect the batteries installed in the subsystem on the following matters once a year.

- ① Check if no SIM concerning the battery has been issued.
- ② Check if no trouble such as liquid leakage is observed in the external appearance.
- ③ Check if the working days of the battery is within the service life of the battery shown in the table below referring to the maintenance history and production date shown in the label affixed on the battery.

Table 4.2-1 Battery Specifications

No.	Battery type	Service life
1	For SM	2.5 years
2	For CM	

(2) Replacing the battery

The battery must be replaced before the service life above expires. For the replacement procedure, refer to the Replacement Section (Work ID RT14 on page REP01-170). When the replacement is completed, set the warning SIM concerning the battery that demands the next periodic replacement following the directions given on page SVP02-1290 in the SVP Section.

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

Table 4.2-2 Specifications for Batteries Stored for Maintenance

	Battery	Allowable storage period		Time when refilling	Method of refilling
No.	type		refilling charges*1	charge is to be done	charge
1	For SM	Six months (when stored at	Once	Until the time shown	Mount the battery in the
	and	25°C or lower)		on the left elapses after	DKC and apply power
2	For CM	Three months (when stored	Three times	the production date	to it for longer than 48
		at 25°C to 32°C)		written on the label	hours.
				affixed to the battery	

^{*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.

Dispose of the battery that has been stored longer than the storable period after the refilling charge.

(4) When re-installing the DKC, replace all the batteries.



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

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^{*2:} When the storage environment exceeds 32°C the batteries must be discarded.