# PERIODIC CHECK SECTION

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## 1. PERIODIC CHECK LIST

The following table shows the items of the periodic check for the DKC and DKU. 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	DKC	Reference Page
			Periodic Check		DKU	
1	Check of air filter	<ul> <li>Vacuum</li> </ul>	Once per year	10 min.	DKC	PERIOD 03-10
		cleaner			DKU	
2	Check and	• Philips	Once per year	Check time:	DKC	PERIOD 04-10
	Replacement of	screwdriver		10 min. per DKC.		to
	battery			Replacement time:		PERIOD 04-20
				10 min. per battery.		

Table 1-2 Confirmation

No.	Item	Tools	Occasion to check	Check Time	DKC	Reference Page
					DKU	
1	Confirmation	• Digital	Check the voltage when the	5 min. per	DKC	PERIOD 02-10
	of DC voltage	voltmeter	Technical Support Center	logical part		to
		<ul> <li>Voltage</li> </ul>	instructs to do that. (The		DKU	PERIOD 02-30
		check fixture	check is not required at the			
			time of the periodical			
			inspection.)			

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## 2. Confirmation Method 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

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No.	Logic Part	Standard DC Voltage	Acceptable Range	Power Supply	Remarks
1	Cl. + 1	(Between +DC and GRD)		Location	
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				3VPS1C	
6				3VPS1D	
7		+3.3V/+12V	3.3V: +3.30V to +3.57V	3/12VPS1A	
8		(3/12VPS)	12V: +12.0V to +13.0V	3/12VPS1B	
9				3/12VPS1C	
10				3/12VPS1D	
11		+5V/+12V	5V : +4.90V to +5.20V	SUBPS1	
12		(SUBPS)	12V:+11.83V to +12.57V		
13	Cluster 2	+5V/+3.3V	5V : +4.95V to +5.30V	5/3VPS2A	
14		(5/3VPS)	3.3V: +3.30V to +3.57V	5/3VPS2B	
15		+3.3V	3.3V: +3.30V to +3.57V	3VPS2A	
16		(3VPS)		3VPS2B	
17				3VPS2C	
18				3VPS2D	
19		+3.3V/+12V	3.3V: +3.30V to +3.57V	3/12VPS2A	
20		(3/12VPS)	12V: +12.0V to +13.0V	3/12VPS2B	
21				3/12VPS2C	
22				3/12VPS2D	
23		+5V/+12V	5V : +4.90V to +5.20V	SUBPS2	
24		(SUBPS)	12V: +11.83V to +12.57V		
25	HDU-××0	+5V/+12V	5V : +4.85V to +5.35V	MPS××00	
26		(Multi PS)	12V: +11.45V to +12.65V	MPS××01	
27	HDU-××1	+5V/+12V	5V : +4.85V to +5.35V	MPS××10	
28		(Multi PS)	12V: +11.45V to +12.65V	MPS××11	
29	HDU-××2	+5V/+12V	5V : +4.85V to +5.35V	MPS××20	
30		(Multi PS)	12V:+11.45V to +12.65V	MPS××21	
31	HDU-××3	+5V/+12V	5V : +4.85V to +5.35V	MPS××30	
32	1120	(Multi PS)	12V : +11.45V to +12.65V	MPS××31	
33	HDU-××4	+5V/+12V	5V : +4.85V to +5.35V	MPS××40	
34	IID U - AAT	(Multi PS)	12V:+11.45V to +12.65V	MPS××41	
35	HDU-××5	+5V/+12V	5V : +4.85V to +5.35V	MPS××50	
36	11DO-XX3	(Multi PS)	12V:+11.45V to +12.65V	MPS××51	
37	HDU-××6	+5V/+12V	5V : +4.85V to +5.35V		
	מ××-טעח			MPS××60	
38	IIDI 7	(Multi PS)	12V:+11.45V to +12.65V	MPS××61	
39	HDU-××7	+5V/+12V	5V : +4.85V to +5.35V	MPS××70	
40		(Multi PS)	12V:+11.45V to +12.65V	MPS××71	

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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].

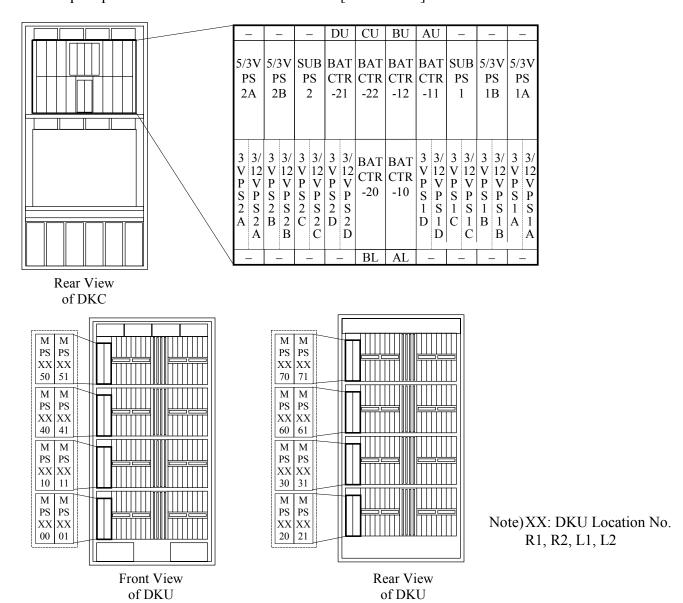
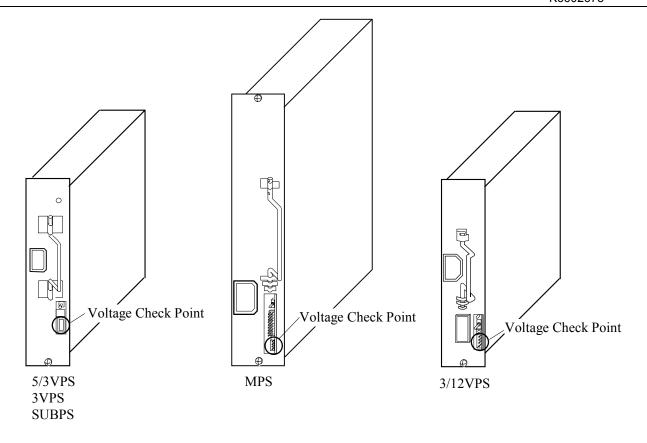


Fig.2-1 Location of Power Supplies



#### Voltage Check Point DC Voltage Pin 5/3VPS 3VPS SUBPS MPS 3/12VPS No. +5V +3.3V+12V +12V +3.3V+3.3V +5V +5V +12V Voltage 3 Check Point GRD GRD GRD GRD GRD

Fig. 2-2 Location of Voltage Check Point

Voltage Check Fixture

Digital Voltmeter

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## 3. Cleaning of Air Filter

#### 3.1 DKC

Clean the air filters located at the bottom of the Front and Rear Logic Boxes and inside the front and rear doors.

The location of the air filters are shown in Fig. 3.1-1.

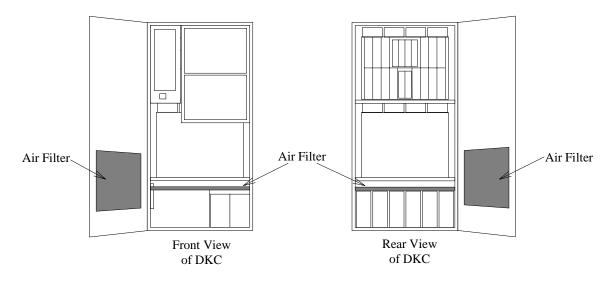


Fig. 3.1-1 Air Filter Location in DKC

### 3.2 **DKU**

Clean the air filters located inside the front and rear doors. The location of the air filters are shown in Fig. 3.2-1.

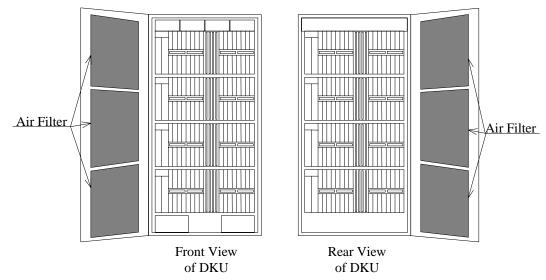
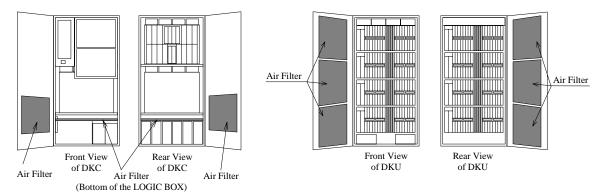


Fig. 3.2-1 Air Filter Location in DKU

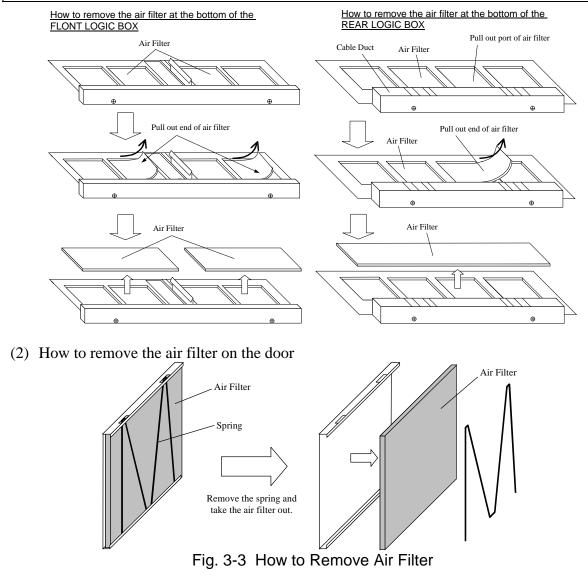
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#### How to remove and reinstall the air filter



(1) 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.



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## 4. Check and Replacement of Battery

## 4.1 Type and Backup Duration Time of battery

The DKC has the batteries shown in Table 4.1-1 and Fig. 4.1-1. The Backup duration time of battery is shown in Table 4.1-2.

	1 abic +. 1-1	Datteries used in Divo
No.	Battery Name	Logic Part
1	BATTERY-10	Cluster 1 Shared Memory
2	BATTERY-11	Cluster 1 Cache Memory
3	BATTERY-12	Cluster 1 Cache Memory
4	BATTERY-20	Cluster 2 Shared Memory
5	BATTERY-21	Cluster 2 Cache Memory
6	BATTERY-22	Cluster 2 Cache Memory

Table 4.1-1 Batteries used in DKC

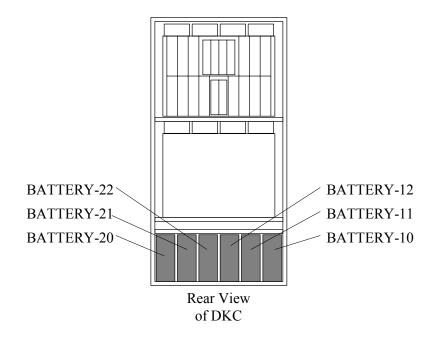


Fig. 4.1-1 Battery Location

Table 4.1-2 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)

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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	

<sup>\*1:</sup> 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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<sup>\*2:</sup> When the storage environment exceeds 32°C the batteries must be discarded.