

Multi Protocol NIC for DDP70/92 and EMP156

Installation Instruction

Revision Table

Rev. for manual	Page No.(Contents)	Date
00	First Edition	Oct. 2005

1.Overview

Installation Requirements

The contents of the NIC kit are listed in the table below.

No	Item	Printer	
		Quantity in DDP70/92	Quantity in EMP156
1	Network Board Ass'y	1	1
2	Dust Cover/Modular Type	1	1
3	Dust Cover/D Sub Type	1	1
4	GND Plate(LBM)	1	-(Note)
5	Ferrite Core	1	-(Note)
6	Inch Screw/4-40 TYPE	2	2
7	M2.5x8 Pan Head Screw	4	4

Note: The GND Plate(LBM) and the ferrite core are used for only DDP70/92.

Working time

Approx.80 min.(DDP70/92 and EMP156 commonness)

Necessary tools

- (1)Screwdriver, size #1 and #2.
- (2)Ratchet Screwdriver, size #1.

Caution !

When installing the Network Board Ass'y, various printer setting values(indicated in table1 for DDP70/92 ,table2 for EMP156)are reset to the factory default value ,and VPT added by user is deleted. If necessary, please contact to the customer about reset of various printer setting values before the installation of the Network Board Ass'y.

Installation Procedure

This installation instruction is used for both DDP70/92 and EMP156.

- For DDP70/92

page 2 to page 26

- For EM156

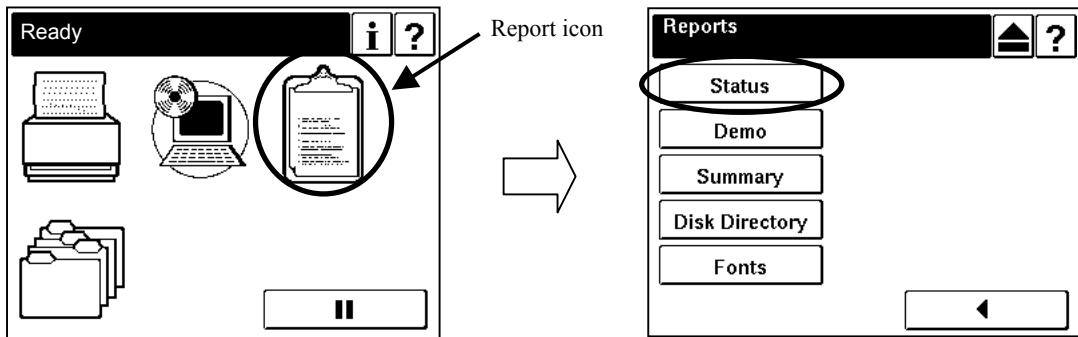
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2. Installing for the DDP70/92

Print the Status Page

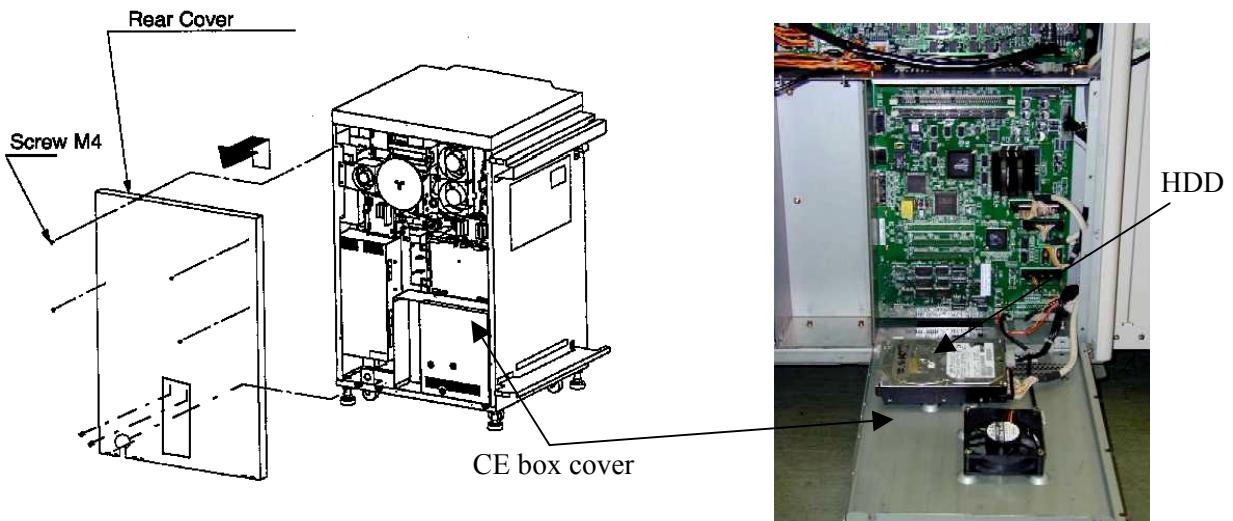
Please print the Status Page in order to confirm the printer works normally before installing Network Board Ass'y.

1. Power on the printer and after displayed the Main Menu, touch the Report icon. And touch "Status" button. Then the Status Page is printed.



Accessing the Controller Assembly

1. Make sure you have shut down the printer and unplugged the power cable from the plug.
2. Take off the rear cover of the printer by removing the six screws that secure the rear cover to the printer. Unhook the bottom of the rear cover, then lift up and pull forward to release it.



3. Remove the twelve screws that secure the CE box cover.

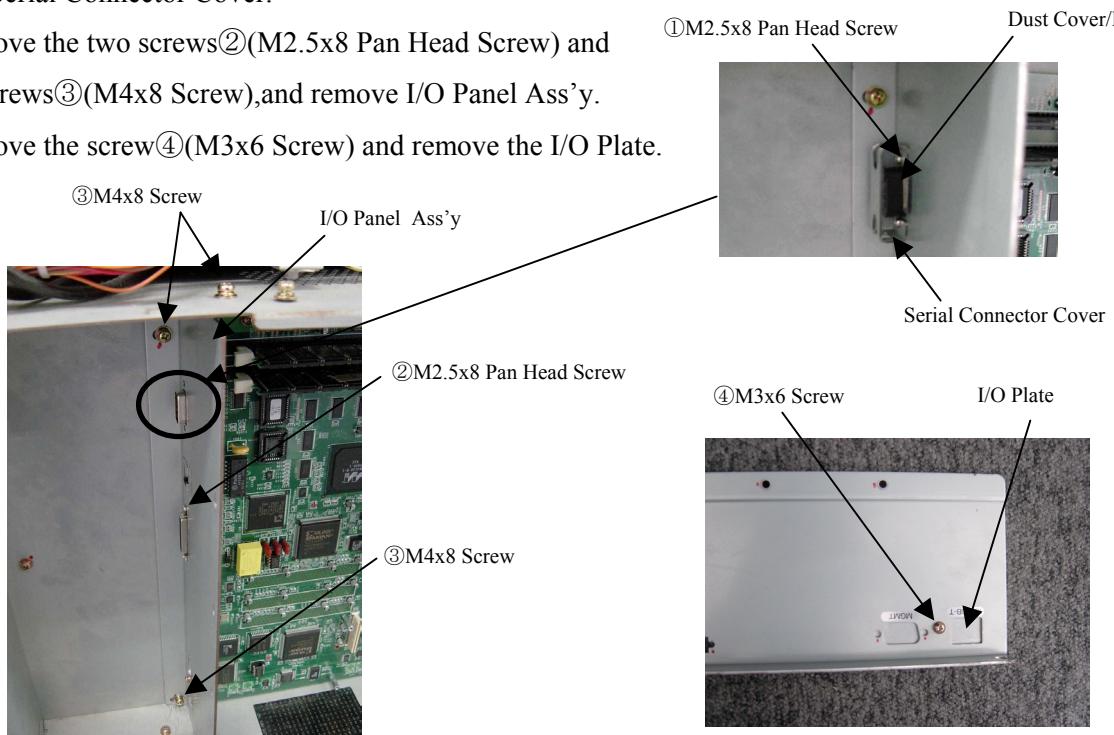
CAUTION!

The HDD is attached to the CE box cover and has a cable connection. Take precautions to not damage the HDD cable when removing the CE box cover from the printer.

4. Unplug the HDD cable from controller board connector J6.
5. Unplug the FAN cable from controller board connector J21.
6. Unplug the HDD power cable from the HDD.

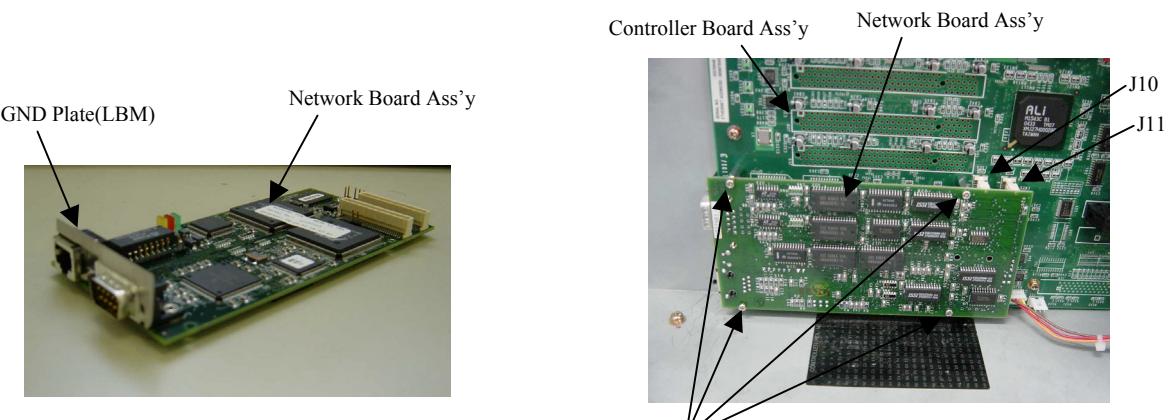
Removing the I/O Panel Ass'y

1. Remove the two screws①(M2.5x8 Pan Head Screw), and remove the Dust Cover/D Sub Type and Serial Connector Cover.
2. Remove the two screws②(M2.5x8 Pan Head Screw) and the screws③(M4x8 Screw), and remove I/O Panel Ass'y.
3. Remove the screw④(M3x6 Screw) and remove the I/O Plate.



Installing the Network Board Ass'y

1. Attach the GND Plate(LBM)(Installation Requirements No.4) to the Network Board Ass'y. (Installation Requirements No.1).
2. Set the Network Board Ass'y on J10 and J11 of the Controller Board Ass'y, and fix the Network Board Ass'y with the four screws⑤(M2.5x8 Pan Head Screw/ Installation Requirements No.7)



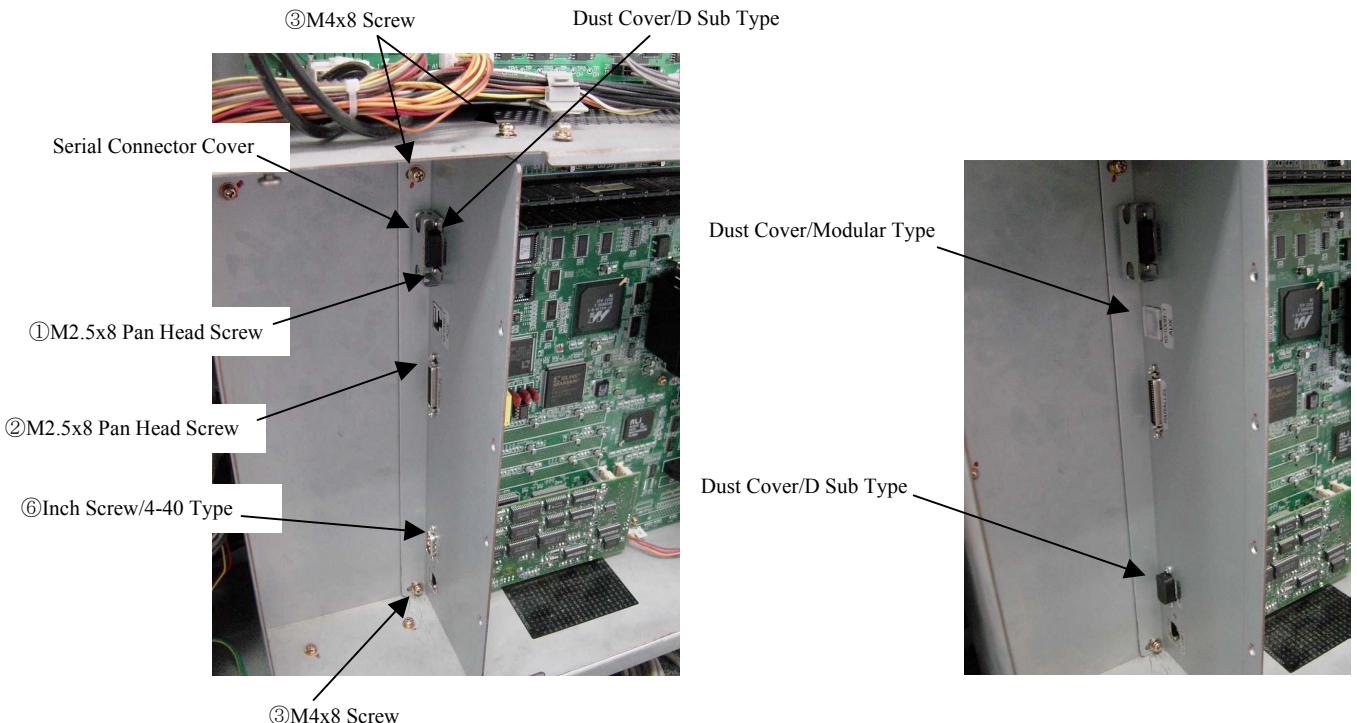
Installing the I/O Panel Ass'y

1. Install the I/O Panel Ass'y with the two screws②(M2.5x8 Pan Head Screw), the two screws⑥ (Inch Screws/4-40 Type/Installation Requirements No.6) and the three screws③(M4x8 Screw)
2. Attach the Dust Cover/D Sub Type to the COM1 of Controller Board Ass'y, then install the Serial Connector Cover with the two screws②(M2.5x8 Pan Head Screw).

3. Attach the Dust Cover/D Sub Type(Installation Requirements No.3) to the MGMT of the Network Board Ass'y, and attach the Dust Cover/Modular Type(Installation Requirements No.2) to the 10/100B-T AUX of the Controller Board Ass'y.

CAUTION!

When installing the Network Board Ass'y, the 10/100B-T AUX network port(attached the Dust Cover/Modular Type) of the Controller Board Ass'y does not work.



Installing the CE box cover and the rear cover

1. Install the CE box cover with the twelve screws(Plug the HDD cable, FAN cable ,HDD power cable).

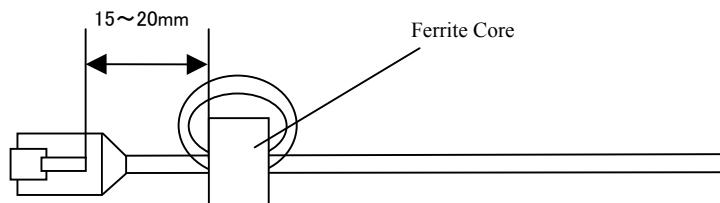
2. Install the rear cover of the printer with the six screws.

Note: Refer to the “Accessing the Controller Assembly”

Installing the Ferrite Core

1. Twist the one end of the Ethernet cable on the Ferrite Core(Installation Requirements No.5) as follows.

2. Connect the end (attached the Ferrite Core) of the Ethernet cable in the network environment to the 10/100B-T connector on the Network Board Ass'y.



3. Plug the power cable of the printer.

Confirmation of Connection

1. Power on the printer, and touch “Information” button after “Ready” is displayed on the OCP.

CAUTION!

When turning on the printer , confirm the power supply of the network equipment (user environment) connected with the network cable is turned on. It becomes the network loading error, and the following work cannot be executed.

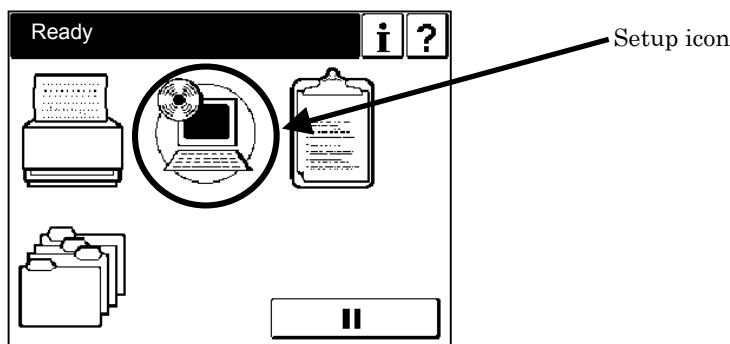
2. Touch “Network” button, and confirm that “10/100B-T AUX” and “10/100B-T NIC” buttons are displayed on the OCP. If these two network interfaces are displayed, the printer recognizes the Network Board Ass'y normally.

If the two network interfaces are not displayed but MAC address, IP address, and other network parameters are displayed, the printer does not recognize the Network Board Ass'y. There is a possibility of the loose connection when the Network Board Ass'y is installed. Check out the attachment procedure and then repeat the above-mentioned steps.

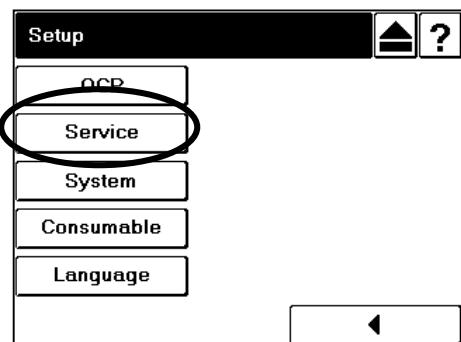
Upgrading of the Network Board Ass'y Software

Perform the upgrading of the print server software according to the procedure shown below.

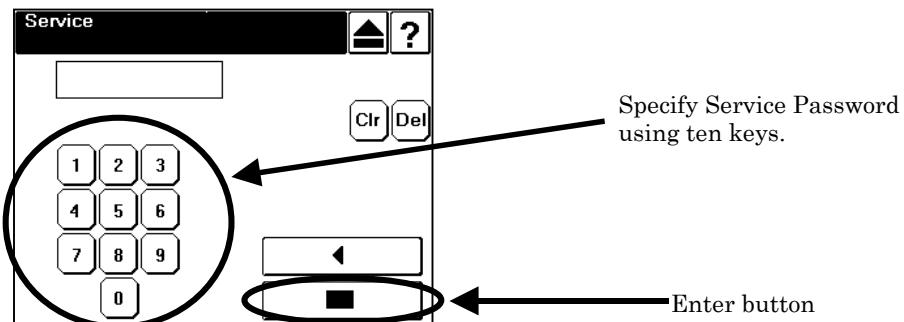
1. Touch the Setup icon on Main Menu.



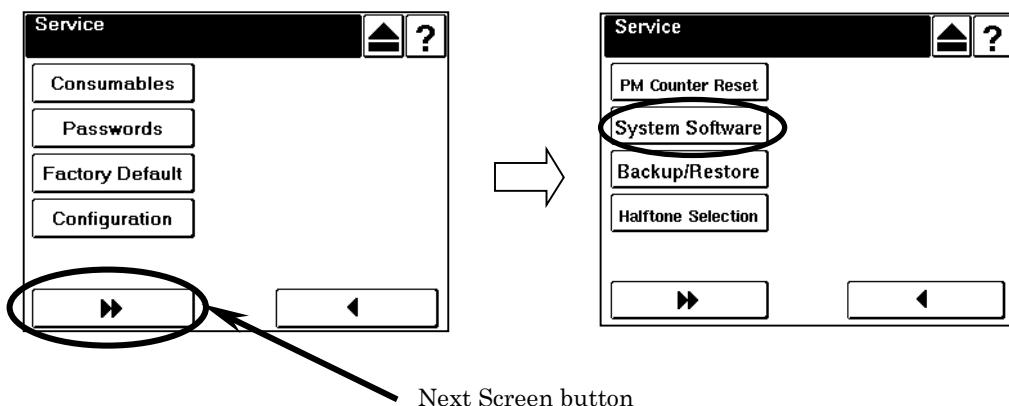
2. Touch “Service” button.



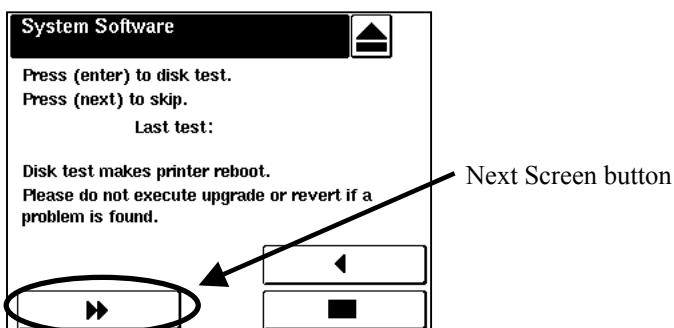
3. The input screen of "Service Password" is displayed. Press the Enter button to enter "Service" menu without inputting the service password(factory-set default). When the Service Password is changed, type the new value and press the Enter button.



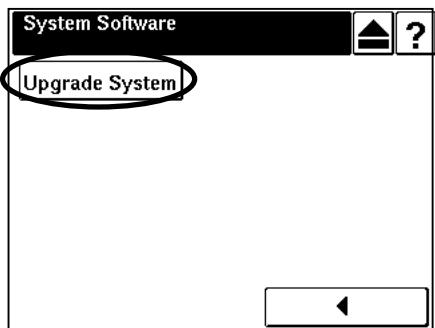
4. Touch the Next Screen button once to display the next screen, and touch "System Software" button.



5. Touch the Next Screen button once to display the next screen.

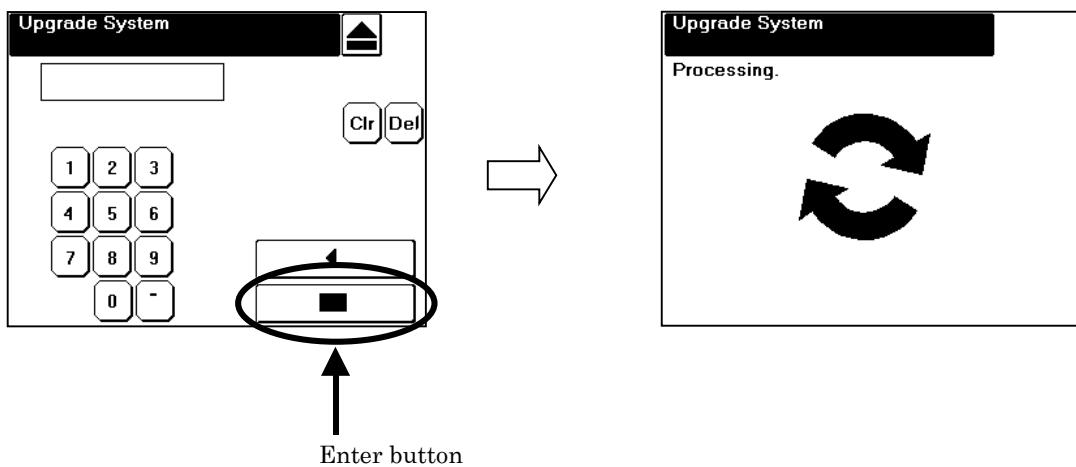


6. Touch “Upgrade System” button.

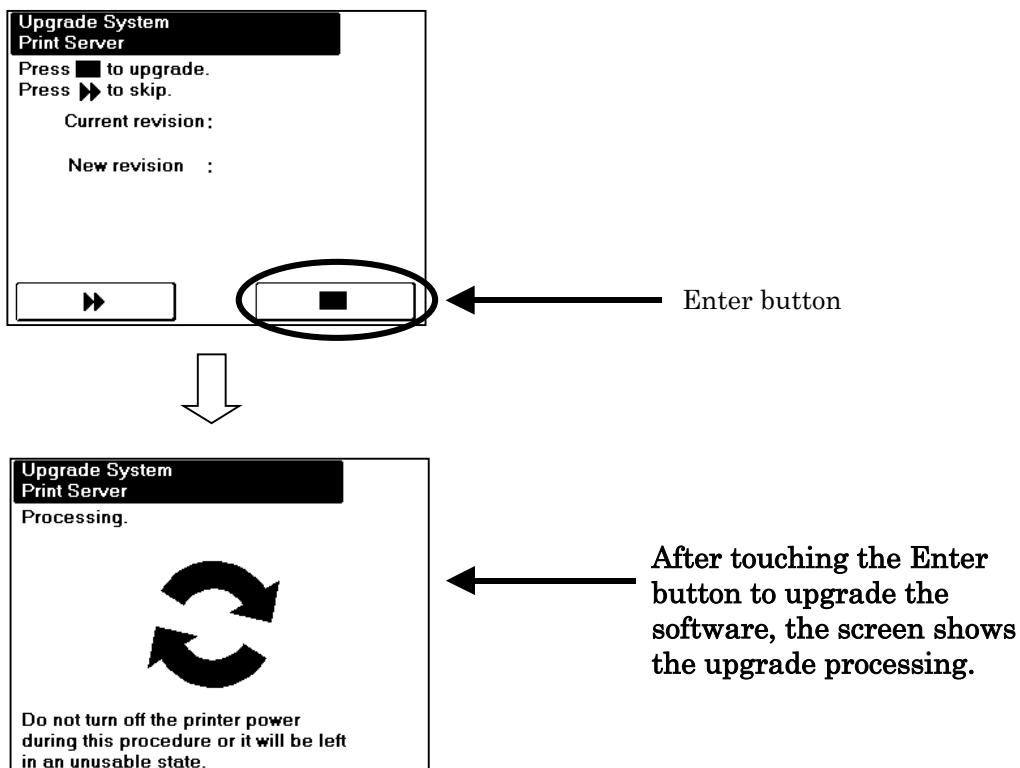


7. Touch the Enter button without inputting any Keycode because it is already set.

The printer starts processing to prepare the upgrading. (It takes about 3 - 4 minutes.)

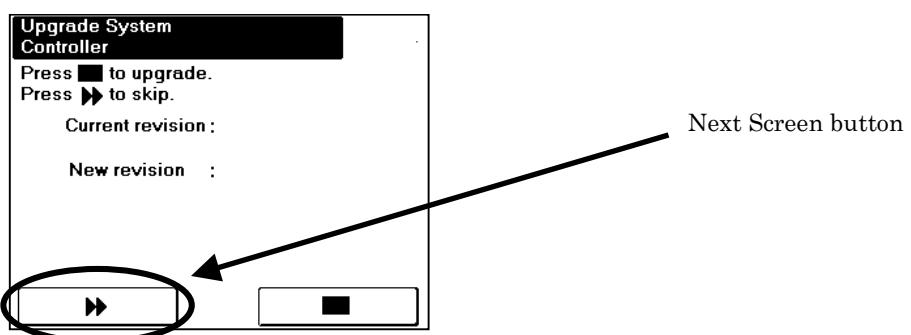


8. After the completion of upgrade preparation, the New Print Server Software Version is displayed on "New version" of the Print Server Upgrade screen. Touch the Enter button to upgrade the Print Server software.

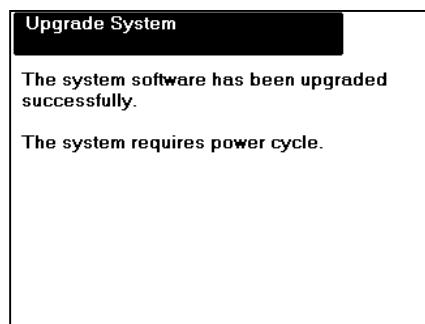


Note: The upgrading time of the Print Server Software will take 2 minutes.

9. After finishing the Print Server upgrading, other upgrade screens (Controller, OCP Logo, and OCP) are displayed. You have to skip them by touching the Next Screen button.



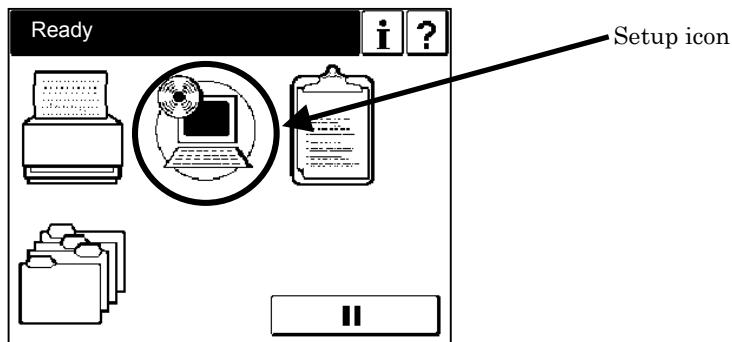
10. The following screen is displayed after skipping all other upgrade screens except the Print Server.
Turn off and on the printer to restart with the upgraded software.



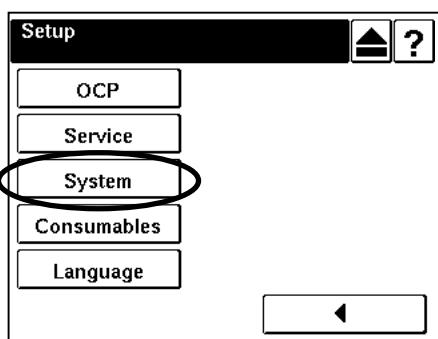
The software (Print Server) upgrade of the Network board Ass'y is completion now.

Set IP Address of the Network Board Ass'y

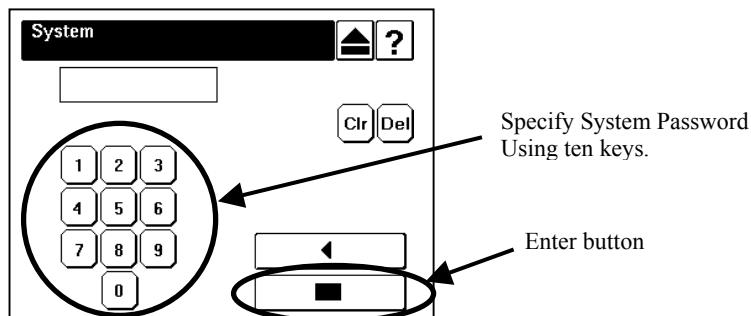
1. Touch the Setup icon on Main Menu.



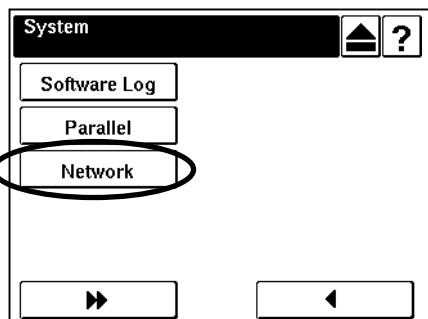
2. Touch "System" button.



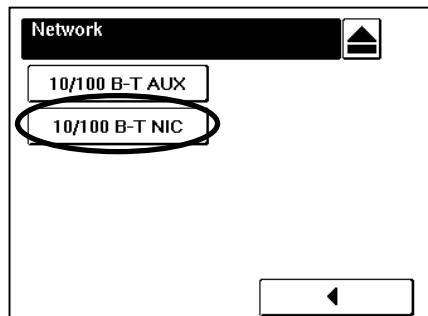
3. The input screen of “System Password” is displayed. Press the Enter button to enter “System” menu without inputting the system password(factory-set default). When the System Password is changed, type the new value and press the Enter button.



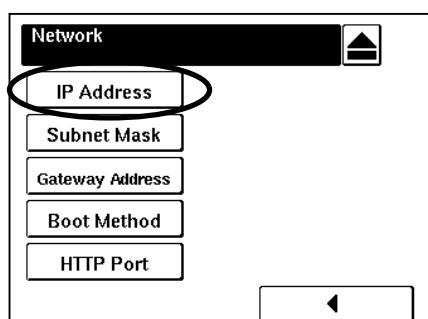
4. Touch “Network” button.



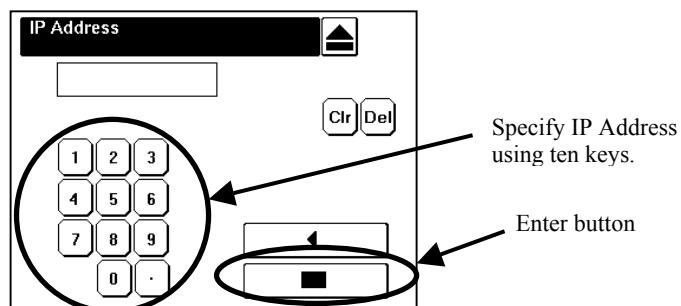
5. Touch “10/100B-T NIC” button.



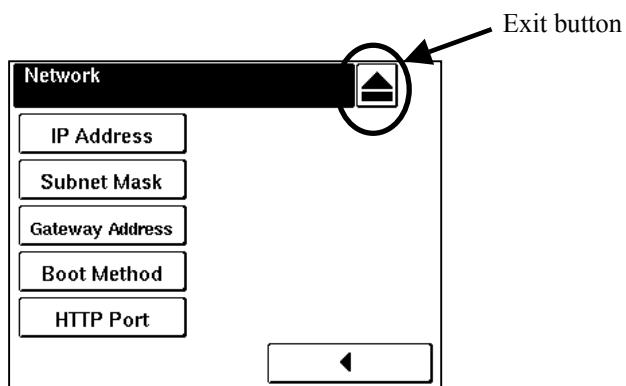
6. Touch “IP Address” button.



7. The input screen of “IP Address” is displayed. Press the IP Address(as user’s environment) using ten keys, then touch the Enter button.



8. Touch the Exit button.



Reset to Factory Default of the Controller configuration and the Network Board Ass'y

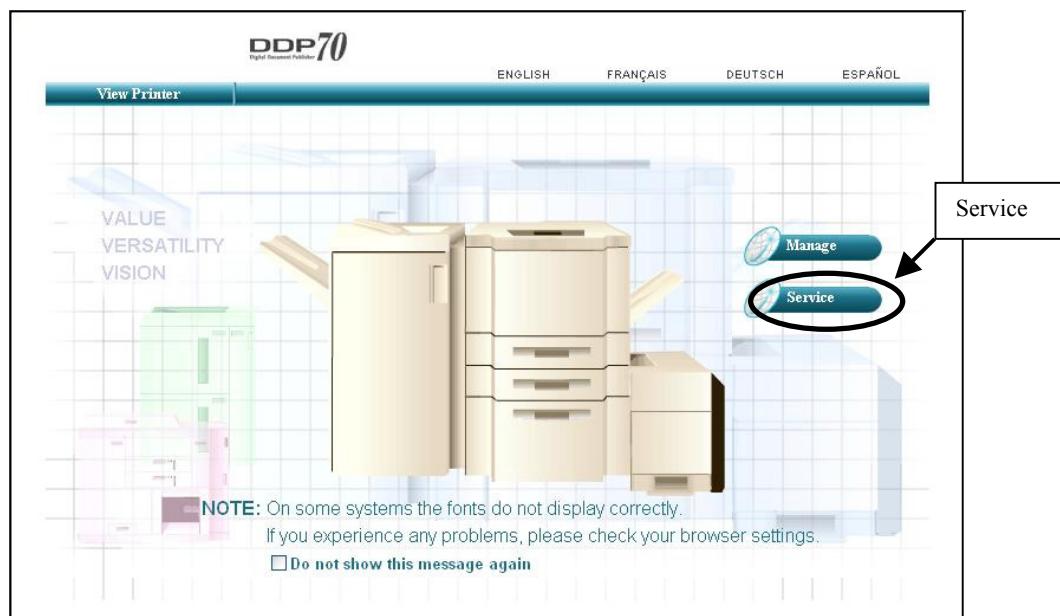
CAUTION!

When Factory Default is executed, please note that the following matter is generated.

- (1) Various printer setting values(indicated in table1) changed by user are reset to the factory default value.
- (2)VPT added by user is deleted..

1.Start the Internet Explorer from PC and enter the IP Address that set upper section.

2.Click the “Service”.



3.After displaying the page of the Enter Network Password, enter “service” in User Name and click “OK” button without entering the Password (factory-set default). When the Service Password is changed, enter the new value and click “OK” button.



4.Click the “Reset”.

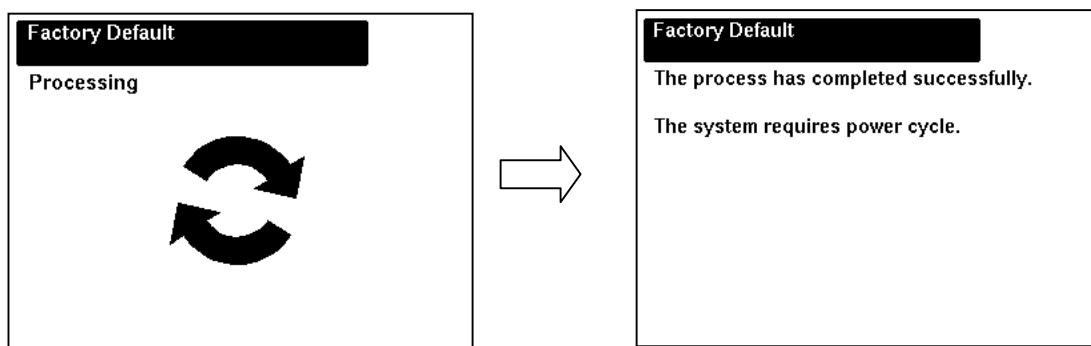
The screenshot shows the DDP70 printer management interface. On the left, there's a sidebar with 'Printer Display' at the top, followed by 'Manage', 'Service', and 'Configuration'. Under 'Service', there are links for 'Consumables', 'Page Counter', 'Documentation', 'Engine Config', 'Reset', and 'Log'. A callout box with the label 'Reset' has an arrow pointing to the 'Reset' link. To the right, the main content area is titled 'Service - Consumables' with tabs for 'Printer' and 'Finisher'. Below this is a table titled 'PRINTER' with columns for Consumable, Current, Limit, and Status. The table lists various consumable items like Toner, Developer Mix, Fuser Web, etc., each with its current level, maximum limit, and a green status indicator.

Consumable	Current	Limit	Status
N/A Toner		Normal	
N/A Developer Mix	434	600	
<input type="checkbox"/> Fuser Web	26	320	
<input type="checkbox"/> Fuser Unit	54	1600	
<input type="checkbox"/> Drum Unit	68	500	
<input type="checkbox"/> Charger Wire/Grid	254	400	
<input type="checkbox"/> T/S Corona Unit Cleaner	254	1200	
<input type="checkbox"/> Transfer Separating Corona Wire	254	1200	
<input type="checkbox"/> Ozone Filter	254	1800	
<input type="checkbox"/> Air Filter	54	1800	

5.Check the “Complete Reset” and click the “Submit”.

The screenshot shows the DDP70 printer management interface. On the left, there's a sidebar with 'Printer Display' at the top, followed by 'Manage', 'Service', and 'Configuration'. Under 'Service', there are links for 'Consumables', 'Page Counter', 'Documentation', 'Engine Config', 'Reset', and 'Log'. A callout box with the label 'Submit' has an arrow pointing to the 'Submit' button next to the 'Complete Reset' radio button. To the right, the main content area is titled 'Service - Reset' and lists several options: 'Factory Default', '10/100 B-T NIC', 'Complete Reset' (which is selected), 'PM Counter', 'Error Log', and 'Event Log'. Each option has a brief description. At the bottom right of the list is another 'Submit' button.

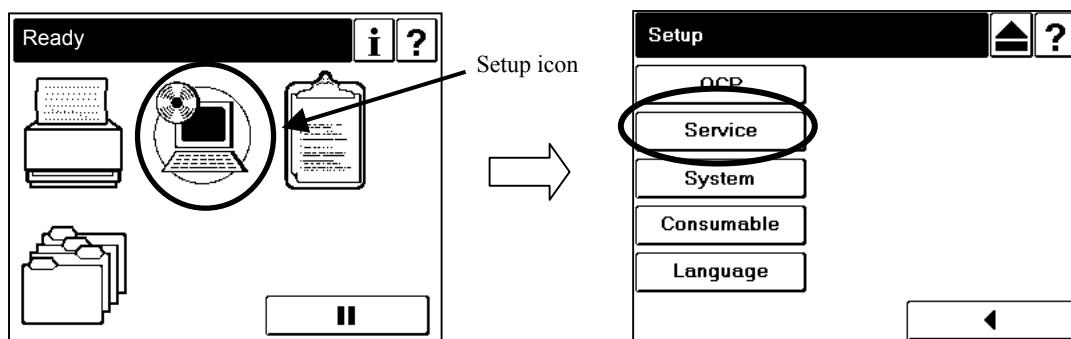
6. After the above-mentioned operation is executed, the following screens are displayed in OCP of the printer. Then execute power cycle the printer.



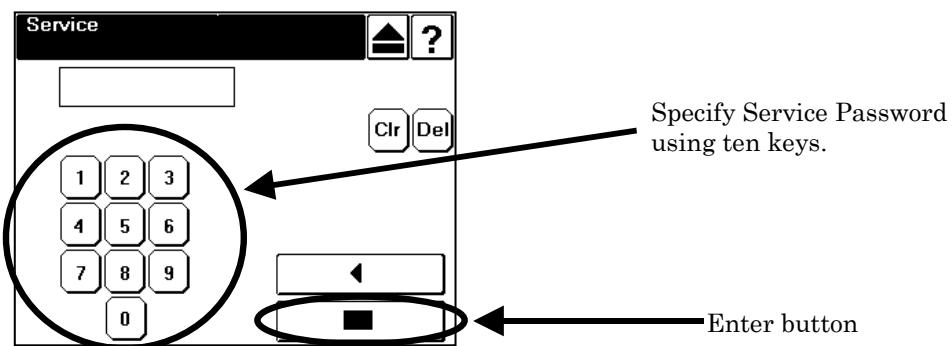
Note: The Factory Default time will take less than 1 minutes

Backup All

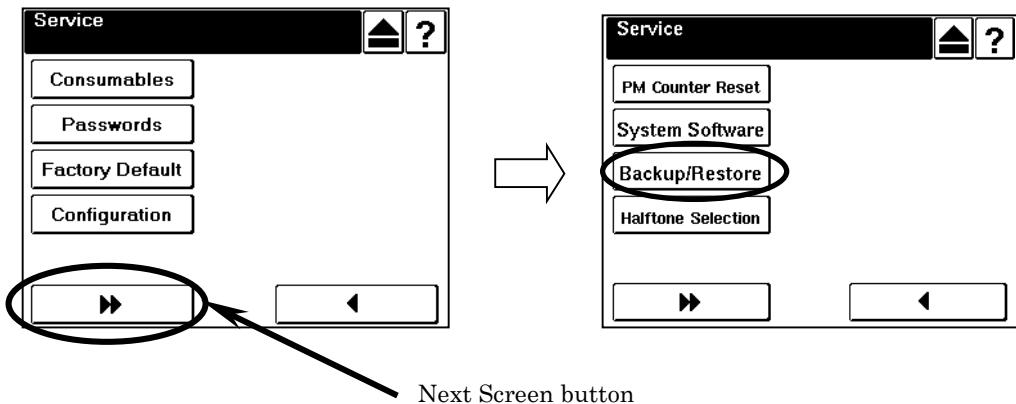
1. Power on the printer.
2. Touch the Setup icon on Main Menu, and touch "Service" button.



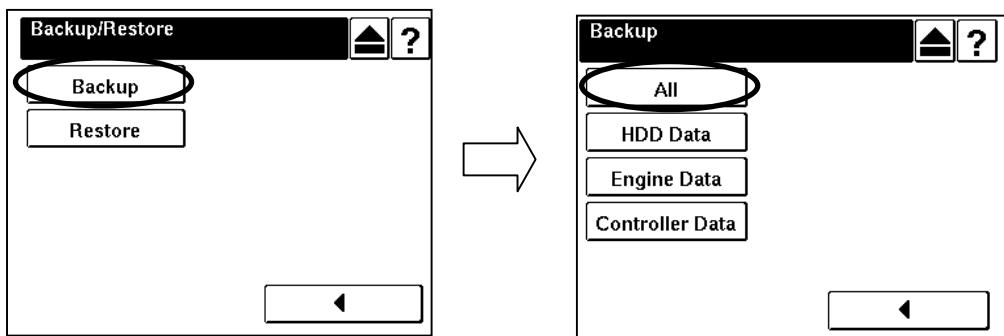
3. The input screen of "Service Password" is displayed. Press the Enter button to enter "Service" menu without inputting the service password(factory-set default). When the Service Password is changed, type the new value and press the Enter button.



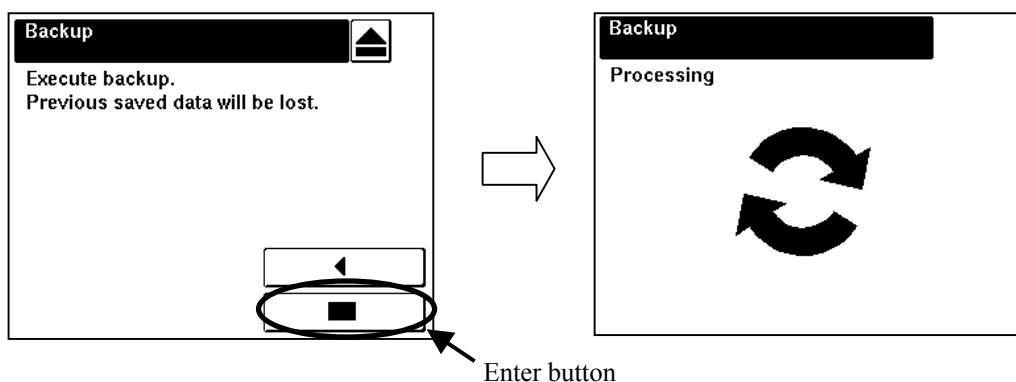
4. Touch the Next Screen button once to display the next screen, and touch "Backup/Restore" button.



5. Touch the "Backup" button, and touch "All" button.

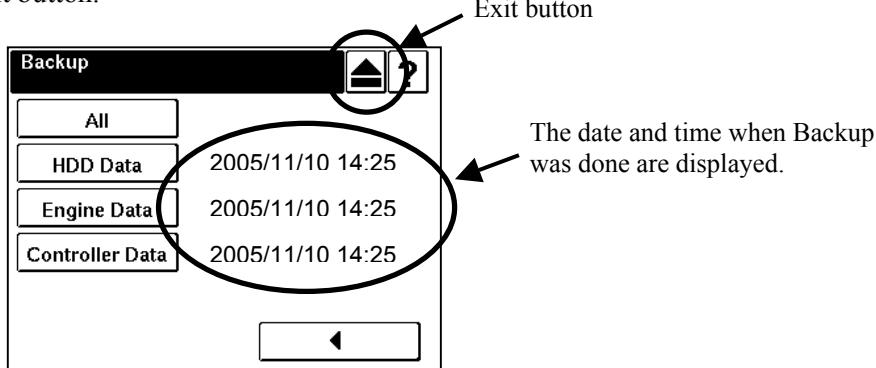


6. Touch the Enter button, then the screen shows the Backup processing.



Note: The Backup time will take approx. 1 minutes.

7. Touch the Exit button.



8. Execute the “Set IP Address of the Network Board Ass’y”(page 9) again.

9. Execute the “Print Status Page”(page 2) again.

Table1. Printer setting value list reset in initial value by Factory Default

		Items		Factory Default
OCP:Printer Menu				
Paper Source	Default Paper Source			AutoSelect
Paper Size	Tray1	Standard Paper Size		Folio SEF
		Custom Size(Width)		8.5"/215.9mm
		Custom Size(Length)		11"/279.4mm
	Tray2	Standard Paper Size		Folio SEF
		Custom Size(Width)		8.5"/215.9mm
		Custom Size(Length)		11"/279.4mm
	Tray3	Standard Paper Size		Folio SEF
		Custom Size(Width)		8.5"/215.9mm
		Custom Size(Length)		11"/279.4mm
	MBT	Standard Paper Size		Letter LEF *2
		Custom Size(Width)		8.5"/215.9mm
		Custom Size(Length)		11"/279.4mm
Paper Type	Tray1			Plain
	Tray2			Plain
	Tray3			Plain
	MBT			Plain
	HCF *1			Plain
Paper Weight	Tray1			20-lb bond
	Tray2			20-lb bond
	Tray3			20-lb bond
	MBT			20-lb bond
	HCF *1			20-lb bond
Tray Adjust	Tray1	Front - Width/Length		0" / 0"
		Back - Width/Length		0" / 0"
	Tray2	Front - Width/Length		0" / 0"
		Back - Width/Length		0" / 0"
	Tray3	Front - Width/Length		0" / 0"
		Back - Width/Length		0" / 0"
	MBT	Front - Width/Length		0" / 0"
		Front - Width/Length		0" / 0"
	HCF *1	Front - Width/Length		0" / 0"
		Back - Width/Length		0" / 0"

*1 : It is displayed when the optional item(s) are installed.

*2 : This value depends with the setting of the country code in system menu. When the country code setting is one, this value is Letter LEF. When other values one set in country code. It becomes A4 LEF.

Continuation of Table 1

Items		Factory Default	
OCP:Printer Menu			
Default Output		Elevator Tray	
Option	Exit-Jam Recovery	Enable	
	Wait TimeOut	40	
	LPD Queuing	Disable	
	Duplex—Always	Disable	
Postscript *1	Print Errors	Enable	
	Best Fit	Enable	
	Job TimeOut	0	
	Halftone Density	Medium	
PCL	Wide A4	Disable	
	Requested Tray	Exclusively	
OCP:Setup Menu			
OCP	Blightness	10	
	Contrast	10	
Service	Halftone Selection	Disable	
System	Parallel	Ack Pulse Width	1000
		Mode	Bi-Directional
		Capture to file	Disable
	Network (AUX)	Boot Method	STATIC
		HTTP	80
	Calendar	TimeZone	GMT
	Energy Save Mode	Enable	
	Energy Save Time	15	
	Emulation	AutoSelect	
		TBCP	
	public r/w	Disable	
	Auto Online	Disable	
Language	English		
Web:Manage – System Menu			
General	Option	Auto Feed Direction	Disable
		Exit Jam Recovery	Enable
		Wait Timeout (0–999)	40
		*PDL Memory Size (6–50)	16
	PostScript *1	Print Errors	Enable
		Best Fit	Enable
		Job Timeout (0, 15–999)	0
		*Memory Size (7.5 – 15)	7.8
Finisher	STAPLER ERROR – ADVANCED FINISHER		Continue
Virtual Printer	Default	General	Auto Select
		Paper Handling	Auto Select
		Paper Source	Auto Select
		Paper Size	Letter LEF
		Paper Type	Plain
		Paper Output	Auto Select
		Copies(1–999)	1
		Collate	Enable
		Job Offset	Disable
		Staple	None
		Duplex	Disable
		Binding	Long Edge
		Edge-to-Edge	Disable

*1 : It is displayed when the optional item(s) are installed.

Continuation of Table 1

		Items	Factory Default	
Web:Manage – System Menu				
Virtual Printer	Default	PCL *3	Page Orientation	Portrait
			Page Length (5 – 127)	60
			Line Termination	CR->CR ; LF->LF ; FF->FF
			Line Wrap	Off
			Font-Source	Internal
			Font-Number	23
			Font-Symbol Set	PC-8
			Font-Height (4 – 999.75)	12
			Font-Pitch (0.44 – 99.99)	10
			PostScript I/O Mode	TBCP
lp	General	Paper Handling	^C Response	Enable
			Channel Name	lp
			Emulation	Auto Select
			Protocol	TCP/IP port 9100
			Spooling *5	None
		PCL *3	LPD Banner Page	Disable
			Paper Source	Auto Select
			Paper Size	Letter LEF
			Paper Type	Plain
			Paper Output	Elevator Tray
vp-pcl	General	Paper Handling	Copies(1-999)	1
			Collate	Enable
			Job Offset	Disable
			Staple	None
			Duplex	Disable
		PostScript *1*4	Binding	Short Edge
			Edge-to-Edge	Disable
			Page Orientation	Portrait
			Page Length (5 – 127)	60
			Line Termination	CR->CR ; LF->LF ; FF->FF
vp-pcl	General	Paper Handling	Line Wrap	Off
			Font-Source	Internal
			Font-Number	23
			Font-Symbol Set	PC-8
			Font-Height (4 – 999.75)	12
		PostScript I/O Mode	Font-Pitch (0.44 – 99.99)	10
			PostScript I/O Mode	TBCP
			^C Response	Enable
			Channel Name	vp-pcl
			Emulation	PCL
vp-ps	General	Paper Handling	Protocol	3101
			Spooling *5	None
			LPD Banner Page	Disable
			Paper Source	Auto Select
			Paper Size	Letter LEF
		PostScript I/O Mode	Paper Type	Plain
			Paper Output	Elevator Tray
			Copies(1-999)	1
			Collate	Enable

*1 : It is displayed when the optional item(s) are installed.

*3 : It is displayed when the values other than "Postscript" are set in "General - Emulation" menu.

*4 : It is displayed when the values other than "PCL" are set in "General - Emulation" menu.

*5 : It is not displayed when the NIC is installed.

Continuation of Table 1

		Items	Factory Default	
Web:Manage – System Menu				
Virtual Printer	vp-pcl	Paper Handling	Job Offset Staple Duplex Binding Edge-to-Edge	Disable None Disable Short Edge Disable
		PCL *3	Page Orientation Page Length (5 – 127) Line Termination Line Wrap Font-Source Font-Number Font-Symbol Set Font-Height (4 – 999.75) Font-Pitch (0.44 – 99.99)	Portrait 60 CR->CR ; LF->LF ; FF->FF Off Internal 23 PC-8 12 10
		PostScript *1*4	PostScript I/O Mode ^C Response	Normal Enable
	postscript	General	Channel Name Emulation Protocol Spooling *5 LPD Banner Page	postscript PCL 3102 None Disable
		Paper Handling	Paper Source Paper Size Paper Type Paper Output Copies(1-999) Collate Job Offset Staple Duplex Binding Edge-to-Edge	Auto Select Letter LEF Plain Elevator Tray 1 Enable Disable None Disable Short Edge Disable
		PCL *3	Page Orientation Page Length (5 – 127) Line Termination Line Wrap Font-Source Font-Number Font-Symbol Set Font-Height (4 – 999.75) Font-Pitch (0.44 – 99.99)	Portrait 60 CR->CR ; LF->LF ; FF->FF Off Internal 23 PC-8 12 10
		PostScript *1*4	PostScript I/O Mode ^C Response	Normal Enable
	ascii_portrait	General	Channel Name Emulation Protocol Spooling *5 LPD Banner Page	ascii_portrait PCL 3104 None Disable

*1 : It is displayed when the optional item(s) are installed.

*3 : It is displayed when the values other than "Postscript" are set in "General - Emulation" menu.

*4 : It is displayed when the values other than "PCL" are set in "General - Emulation" menu.

*5 : It is not displayed when the NIC is installed.

Continuation of Table 1

		Items		Factory Default
Web : Manage - System Menu				
Virtual Printer	ascii_portrait	Paper Handling	Paper Source	Auto Select
			Paper Size	Letter LEF
			Paper Type	Plain
			Paper Output	Elevator Tray
			Copies(1~999)	1
			Collate	Enable
			Job Offset	Disable
			Staple	None
			Duplex	Disable
			Binding	Short Edge
			Edge-to-Edge	Disable
		PCL *3	Page Orientation	Portrait
			Page Length (5 ~ 127)	60
			Line Termination	CR->CR ; LF->LF ; FF->FF
			Line Wrap	Off
			Font-Source	Internal
			Font-Number	23
			Font-Symbol Set	PC-8
			Font-Height (4 ~ 999.75)	12
			Font-Pitch (0.44 ~ 99.99)	10
		PostScript *1*4	PostScript I/O Mode	Normal
			^C Response	Enable
	ascii_landscape	General	Channel Name	ascii_landscape
			Emulation	PCL
			Protocol	3105
			Spooling *5	None
			LPD Banner Page	Disable
		Paper Handling	Paper Source	Auto Select
			Paper Size	Letter LEF
			Paper Type	Plain
			Paper Output	Elevator Tray
			Copies(1~999)	1
			Collate	Enable
			Job Offset	Disable
			Staple	None
			Duplex	Disable
			Binding	Short Edge
			Edge-to-Edge	Disable
		PCL *3	Page Orientation	Landscape
			Page Length (5 ~ 127)	45
			Line Termination	CR->CR ; LF->LF ; FF->FF
			Line Wrap	Off
			Font-Source	Internal
			Font-Number	23
			Font-Symbol Set	PC-8
			Font-Height (4 ~ 999.75)	12
			Font-Pitch (0.44 ~ 99.99)	10
		PostScript *1*4	PostScript I/O Mode	Normal
			^C Response	Enable

*1 : It is displayed when the optional item(s) are installed.

*3 : It is displayed when the values other than "Postscript" are set in "General - Emulation" menu.

*4 : It is displayed when the values other than "PCL" are set in "General - Emulation" menu.

*5 : It is not displayed when the NIC is installed.

Continuation of Table 1

		Items	Factory Default																						
Web : Manage - System Menu																									
Virtual Printer	lp_portrait	General	<table border="1"> <tr><td>Channel Name</td><td>lp_portrait</td></tr> <tr><td>Emulation</td><td>PCL</td></tr> <tr><td>Protocol</td><td>3106</td></tr> <tr><td>Spooling *5</td><td>None</td></tr> <tr><td>LPD Banner Page</td><td>Disable</td></tr> </table>	Channel Name	lp_portrait	Emulation	PCL	Protocol	3106	Spooling *5	None	LPD Banner Page	Disable												
Channel Name	lp_portrait																								
Emulation	PCL																								
Protocol	3106																								
Spooling *5	None																								
LPD Banner Page	Disable																								
		Paper Handling	<table border="1"> <tr><td>Paper Source</td><td>Auto Select</td></tr> <tr><td>Paper Size</td><td>Letter LEF</td></tr> <tr><td>Paper Type</td><td>Plain</td></tr> <tr><td>Paper Output</td><td>Elevator Tray</td></tr> <tr><td>Copies(1-999)</td><td>1</td></tr> <tr><td>Collate</td><td>Enable</td></tr> <tr><td>Job Offset</td><td>Disable</td></tr> <tr><td>Staple</td><td>None</td></tr> <tr><td>Duplex</td><td>Disable</td></tr> <tr><td>Binding</td><td>Short Edge</td></tr> <tr><td>Edge-to-Edge</td><td>Disable</td></tr> </table>	Paper Source	Auto Select	Paper Size	Letter LEF	Paper Type	Plain	Paper Output	Elevator Tray	Copies(1-999)	1	Collate	Enable	Job Offset	Disable	Staple	None	Duplex	Disable	Binding	Short Edge	Edge-to-Edge	Disable
Paper Source	Auto Select																								
Paper Size	Letter LEF																								
Paper Type	Plain																								
Paper Output	Elevator Tray																								
Copies(1-999)	1																								
Collate	Enable																								
Job Offset	Disable																								
Staple	None																								
Duplex	Disable																								
Binding	Short Edge																								
Edge-to-Edge	Disable																								
		PCL *3	<table border="1"> <tr><td>Page Orientation</td><td>Portrait</td></tr> <tr><td>Page Length (5 - 127)</td><td>60</td></tr> <tr><td>Line Termination</td><td>CR->CR ; LF->LF ; FF->FF</td></tr> <tr><td>Line Wrap</td><td>Off</td></tr> <tr><td>Font-Source</td><td>Internal</td></tr> <tr><td>Font-Number</td><td>23</td></tr> <tr><td>Font-Symbol Set</td><td>PC-8</td></tr> <tr><td>Font-Height (4 - 999.75)</td><td>12</td></tr> <tr><td>Font-Pitch (0.44 - 99.99)</td><td>10</td></tr> </table>	Page Orientation	Portrait	Page Length (5 - 127)	60	Line Termination	CR->CR ; LF->LF ; FF->FF	Line Wrap	Off	Font-Source	Internal	Font-Number	23	Font-Symbol Set	PC-8	Font-Height (4 - 999.75)	12	Font-Pitch (0.44 - 99.99)	10				
Page Orientation	Portrait																								
Page Length (5 - 127)	60																								
Line Termination	CR->CR ; LF->LF ; FF->FF																								
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Font-Source	Internal																								
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Font-Symbol Set	PC-8																								
Font-Height (4 - 999.75)	12																								
Font-Pitch (0.44 - 99.99)	10																								
		PostScript *1*4	<table border="1"> <tr><td>PostScript I/O Mode</td><td>Normal</td></tr> <tr><td>^C Response</td><td>Enable</td></tr> </table>	PostScript I/O Mode	Normal	^C Response	Enable																		
PostScript I/O Mode	Normal																								
^C Response	Enable																								
	lp_landscape	General	<table border="1"> <tr><td>Channel Name</td><td>lp_landscape</td></tr> <tr><td>Emulation</td><td>PCL</td></tr> <tr><td>Protocol</td><td>3107</td></tr> <tr><td>Spooling *5</td><td>None</td></tr> <tr><td>LPD Banner Page</td><td>Disable</td></tr> </table>	Channel Name	lp_landscape	Emulation	PCL	Protocol	3107	Spooling *5	None	LPD Banner Page	Disable												
Channel Name	lp_landscape																								
Emulation	PCL																								
Protocol	3107																								
Spooling *5	None																								
LPD Banner Page	Disable																								
		Paper Handling	<table border="1"> <tr><td>Paper Source</td><td>Auto Select</td></tr> <tr><td>Paper Size</td><td>Letter LEF</td></tr> <tr><td>Paper Type</td><td>Plain</td></tr> <tr><td>Paper Output</td><td>Elevator Tray</td></tr> <tr><td>Copies(1-999)</td><td>1</td></tr> <tr><td>Collate</td><td>Enable</td></tr> <tr><td>Job Offset</td><td>Disable</td></tr> <tr><td>Staple</td><td>None</td></tr> <tr><td>Duplex</td><td>Disable</td></tr> <tr><td>Binding</td><td>Short Edge</td></tr> <tr><td>Edge-to-Edge</td><td>Disable</td></tr> </table>	Paper Source	Auto Select	Paper Size	Letter LEF	Paper Type	Plain	Paper Output	Elevator Tray	Copies(1-999)	1	Collate	Enable	Job Offset	Disable	Staple	None	Duplex	Disable	Binding	Short Edge	Edge-to-Edge	Disable
Paper Source	Auto Select																								
Paper Size	Letter LEF																								
Paper Type	Plain																								
Paper Output	Elevator Tray																								
Copies(1-999)	1																								
Collate	Enable																								
Job Offset	Disable																								
Staple	None																								
Duplex	Disable																								
Binding	Short Edge																								
Edge-to-Edge	Disable																								
		PCL *3	<table border="1"> <tr><td>Page Orientation</td><td>Landscape</td></tr> <tr><td>Page Length (5 - 127)</td><td>45</td></tr> <tr><td>Line Termination</td><td>CR->CR ; LF->LF ; FF->FF</td></tr> <tr><td>Line Wrap</td><td>Off</td></tr> <tr><td>Font-Source</td><td>Internal</td></tr> <tr><td>Font-Number</td><td>23</td></tr> </table>	Page Orientation	Landscape	Page Length (5 - 127)	45	Line Termination	CR->CR ; LF->LF ; FF->FF	Line Wrap	Off	Font-Source	Internal	Font-Number	23										
Page Orientation	Landscape																								
Page Length (5 - 127)	45																								
Line Termination	CR->CR ; LF->LF ; FF->FF																								
Line Wrap	Off																								
Font-Source	Internal																								
Font-Number	23																								

*1 : It is displayed when the optional item(s) are installed.

*3 : It is displayed when the values other than "Postscript" are set in "General - Emulation" menu.

*4 : It is displayed when the values other than "PCL" are set in "General - Emulation" menu.

*5 : It is not displayed when the NIC is installed.

Continuation of Table 1

		Items		Factory Default
Web:Manage – System Menu				
Virtual Printer	lp.landscape	PCL *3	Font-Symbol Set	PC-8
			Font-Height (4 – 999.75)	12
			Font-Pitch (0.44 – 99.99)	15
	pdf	General	PostScript I/O Mode	Normal
			^C Response	Enable
			Channel Name	pdf
tiff	pdf	Paper Handling	Emulation	PDF
			Protocol	3109
			Spooling #5	None
			LPD Banner Page	Disable
			Paper Source	Auto Select
			Paper Size	Letter LEF
			Paper Type	Plain
			Paper Output	Elevator Tray
			Copies(1-999)	1
			Collate	Enable
			Job Offset	Disable
			Staple	None
			Duplex	Disable
			Binding	Short Edge
			Edge-to-Edge	Disable
	PCL *3	PCL *3	Page Orientation	Portrait
			Page Length (5 – 127)	60
			Line Termination	CR->CR ; LF->LF ; FF->FF
			Line Wrap	Off
			Font-Source	Internal
			Font-Number	23
	PostScript *1*4	PostScript *1*4	Font-Symbol Set	PC-8
			Font-Height (4 – 999.75)	12
			Font-Pitch (0.44 – 99.99)	10
			PostScript I/O Mode	Normal
			^C Response	Enable
			Channel Name	tiff
tiff	tiff	Paper Handling	Emulation	TIFF
			Protocol	3110
			Spooling #5	None
			LPD Banner Page	Disable
			Paper Source	Auto Select
			Paper Size	Letter LEF
			Paper Type	Plain
			Paper Output	Elevator Tray
			Copies(1-999)	1
			Collate	Enable
			Job Offset	Disable
			Staple	None
			Duplex	Disable
			Binding	Short Edge
			Edge-to-Edge	Disable

*1 : It is displayed when the optional item(s) are installed.

*3 : It is displayed when the values other than "Postscript" are set in "General - Emulation" menu.

*4 : It is displayed when the values other than "PCL" are set in "General - Emulation" menu.

*5 : It is not displayed when the NIC is installed.

Continuation of Table 1

		Items	Factory Default	
Web:Manage – System Menu				
Virtual Printer	tiff	PCL *3	Page Orientation	Portrait
			Page Length (5 – 127)	60
			Line Termination	CR->CR ; LF->LF ; FF->FF
			Line Wrap	Off
			Font-Source	Internal
			Font-Number	23
			Font-Symbol Set	PC-8
			Font-Height (4 – 999.75)	12
			Font-Pitch (0.44 – 99.99)	10
			PostScript *1*4	PostScript I/O Mode
pclxl	pclxl	General	PostScript I/O Mode	Normal
			^C Response	Enable
			Channel Name	pclxl
			Emulation	pclxl
			Protocol	3112
		Paper Handling	Spooling *5	None
			LPD Banner Page	Disable
			Paper Source	Auto Select
			Paper Size	Letter LEF
			Paper Type	Plain
prt2file *5	prt2file *5	General	Paper Output	Elevator Tray
			Copies(1-999)	1
			Collate	Enable
			Job Offset	Disable
			Staple	None
			Duplex	Disable
			Binding	Short Edge
			Edge-to-Edge	Disable
			PCL *3	Page Orientation
			PCL *3	Portrait
			PCL *3	Page Length (5 – 127)
			PCL *3	60
			PCL *3	Line Termination
			PCL *3	CR->CR ; LF->LF ; FF->FF
			PCL *3	Line Wrap
			PCL *3	Off
			PCL *3	Font-Source
			PCL *3	Internal
			PCL *3	Font-Number
			PCL *3	23
			PCL *3	Font-Symbol Set
			PCL *3	PC-8
			PCL *3	Font-Height (4 – 999.75)
			PCL *3	12
			PCL *3	Font-Pitch (0.44 – 99.99)
			PCL *3	10
			PostScript *1*4	PostScript I/O Mode
			PostScript *1*4	Normal
			PostScript *1*4	^C Response
			PostScript *1*4	Enable

*1 : It is displayed when the optional item(s) are installed.

*3 : It is displayed when the values other than "Postscript" are set in "General - Emulation" menu.

*4 : It is displayed when the values other than "PCL" are set in "General - Emulation" menu.

*5 : It is not displayed when the NIC is installed.

Continuation of Table 1

		Items	Factory Default	
Web:Manage - System Menu				
Virtual Printer	prt2file *5	Paper Handling	Paper Source	Auto Select
			Paper Size	Letter LEF
			Paper Type	Plain
			Paper Output	Elevator Tray
			Copies(1~999)	1
			Collate	Enable
			Job Offset	Disable
			Staple	None
			Duplex	Disable
			Binding	Short Edge
			Edge-to-Edge	Disable
		PCL *3	Page Orientation	Portrait
			Page Length (5 ~ 127)	60
			Line Termination	CR->CR ; LF->LF ; FF->FF
			Line Wrap	Off
			Font-Source	Internal
			Font-Number	23
			Font-Symbol Set	PC-8
			Font-Height (4 ~ 999.75)	12
			Font-Pitch (0.44 ~ 99.99)	10
		PostScript *1*4	PostScript I/O Mode	Normal
			^C Response	Enable
text		General	Channel Name	text
			Emulation	Auto Select
			Protocol	3100
			Spooling *5	None
			LPD Banner Page	Disable
		Paper Handling	Paper Source	Auto Select
			Paper Size	Letter LEF
			Paper Type	Plain
			Paper Output	Elevator Tray
			Copies(1~999)	1
			Collate	Enable
			Job Offset	Disable
			Staple	None
			Duplex	Disable
			Binding	Short Edge
			Edge-to-Edge	Disable
		PCL *3	Page Orientation	Portrait
			Page Length (5 ~ 127)	60
			Line Termination	CR->CR-LF LF->CR-LF FF->CR-FF
			Line Wrap	Off
			Font-Source	Internal
			Font-Number	23
			Font-Symbol Set	PC-8
			Font-Height (4 ~ 999.75)	12
			Font-Pitch (0.44 ~ 99.99)	10
		PostScript *1*4	PostScript I/O Mode	TBCP
			^C Response	Enable

*1 : It is displayed when the optional item(s) are installed.

*3 : It is displayed when the values other than "Postscript" are set in "General - Emulation" menu.

*4 : It is displayed when the values other than "PCL" are set in "General - Emulation" menu.

*5 : It is not displayed when the NIC is installed.

Continuation of Table 1

		Items	Factory Default
Web : Manage – Configuration Menu			
General	Customer	Company Legal Name	(blank)
		Phone Number	(blank)
		Fax Number	(blank)
		Street Address	(blank)
		City, State/Region, Zip/Postal Code	(blank)
		Country	(blank)
	Printer	Name	DDP70 or DDP92
		Location	(blank)
	Service Contact	Name	(blank)
		Phone Number	(blank)
		Fax Number	(blank)
		E-mail	(blank)
	Accounting Information	Accounting Period Start Day of the Month:	1
Events	Non Paper Jam Error	Check Box	Disable
	Jam Error Warning	Check Box	Disable
		Times	3
	Toner Low	Check Box	Disable
	Staple Empty	Check Box	Disable
	Accounting	Check Box	Disable
Configuration	Misc	Calendar	Time Server (Primary) (blank) Time Server (Secondary) (blank) Synchronization Time 0 Set Manually Enable Use Daylight Saving Disable Start with 3, 1, 2 End with 10, 1, 2
		Tray Mapping	Default Tray Mapping 100/200
		ID 0	106/206 0 107/207 0
		ID 1	106/206 1 107/207 1
		ID 2	106/206 4 107/207 4
		ID 3	106/206 4 107/207 4
		ID 4	106/206 5 107/207 5
		ID 5	106/206 2 107/207 2
		ID 6	106/206 4 107/207 4
		ID 7	106/206 1,2,3,5 107/207 1,2,3,5
		ID 8	106/206 3 107/207 3
		ID9 – 19	106/206 0 107/207 0

Continuation of Table 1

		Items	Factory Default
Web : Manage – Configuration Menu			
Configuration	Misc	ID20	106/206 4
			107/207 4
		ID21	106/206 5
			107/207 5
		ID 22 – 69	106/206 0
			107/207 0
Communication	TCP/IP(AUX)	SMTP Server Address	0 , 0 , 0 , 0
		Domain Name	(blank)
		Internet Printing Protocol (IPP)	Enable
		Direct Printing with TCP	Enable
		LPR/LPD	Enable
		FTP	Disable
Web : Service – Configuration Menu			
Events	Preventive Maintenance Warning	Check Box	Disable
		Percent	95
	Preventive Maintenance	Check Box	Disable
	Engine Page Count Exceeds	Check Box	Disable
		KPages	200
	Printer Logs	Check Box	Disable
		KPages	200
Dealer	Name	(blank)	(blank)
	Phone Number	(blank)	(blank)
	Fax Number	(blank)	(blank)
	Street Address	(blank)	(blank)
	City, State/Region, Zip/Postal Code	(blank)	(blank)
	Country	(blank)	(blank)
	E-Mail	(blank)	(blank)
	URL	(blank)	(blank)

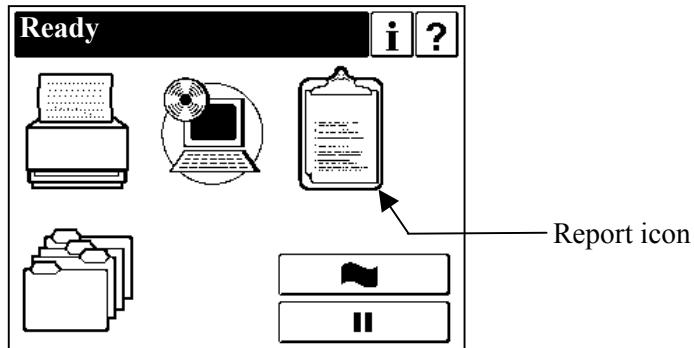
3. Installing for the EMP156

Note: The GND Plate(LBM) and the ferrite core are not used for EMP156.

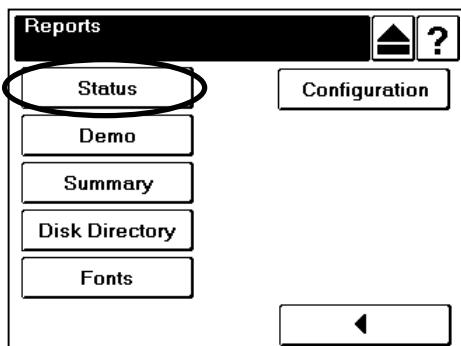
Print the Status Page

Please print the Status Page in order to confirm the printer works normally before installing Network Board Ass'y.

1. Power on the printer and touch the Report icon after displayed the Main Menu.



2. Touch "Status" button. And the Status Page is printed.



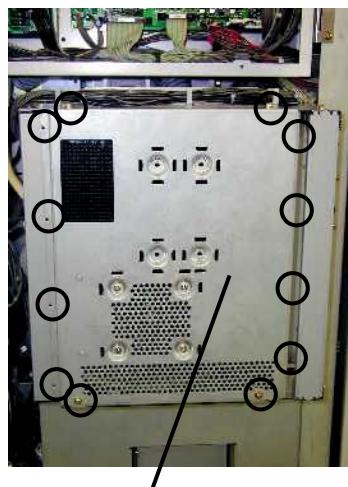
Accessing the Controller Assembly

1. Make sure you have shut down the printer and unplugged the power cable from the wall.
2. Remove all external cables connected to the left side panel.
3. Remove the Rear cover (R) by removing the screws.



Rear cover (R)

4. Remove twelve screws that secure the Controller box (CE box) cover.



Controller box (CE box) cover

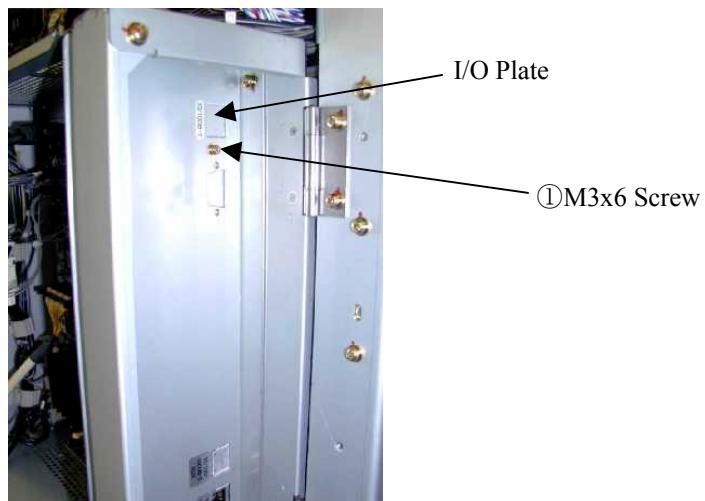
CAUTION!

The HDD is attached to the CE box cover and has a cable connection. Take precautions to not damage the HDD cable when removing the CE box cover from the printer.

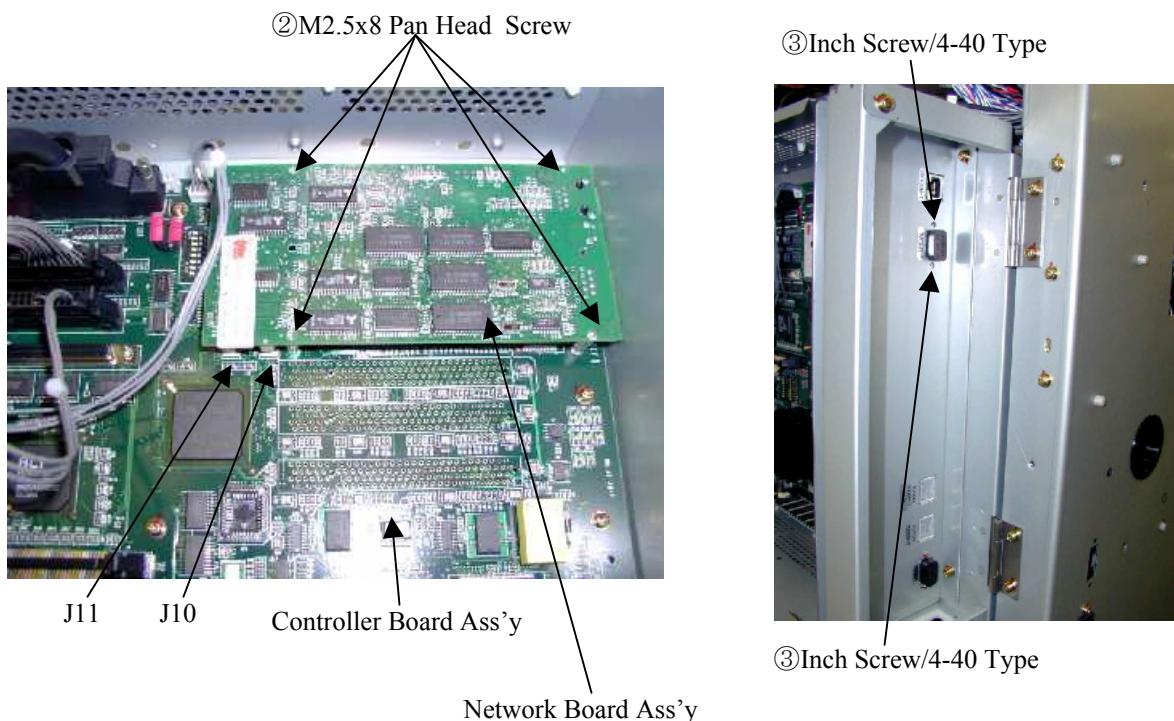
5. Unplug the HDD cable from controller board connector J6.
6. Unplug the FAN cable from controller board connector J21.
7. Unplug the HDD power cable from the HDD.
8. Release the FAN cable and the HDD power cable from the cable clamps on the CE box cover.
9. Remove the CE box cover from the CE box.

Installing the Network Board Ass'y

1. Remove the screw①(M3x6 Screw) and remove the I/O Plate.



2. Set the Network Board Ass'y on J10 and J11 of the Controller Board Ass'y, and fix the Network Board Ass'y with four screws②(M2.5x8 Pan Head Screw/ Installation Requirements No.7) and two screws③(Inch Screws/4-40 Type/Installation Requirements No.6).



3. Attach the Dust Cover/D Sub Type(Installation Requirements No.3) to the MGMT of the Network Board Ass'y, and attach the Dust Cover/Modular Type(Installation Requirements No.2) to the 10/100/1000B-T of the Controller Board Ass'y.



CAUTION!

When installing the Network Board Ass'y, the 10/100/1000B-T network port(attached the Dust Cover/Modular Type) of the Controller Board Ass'y does not work.

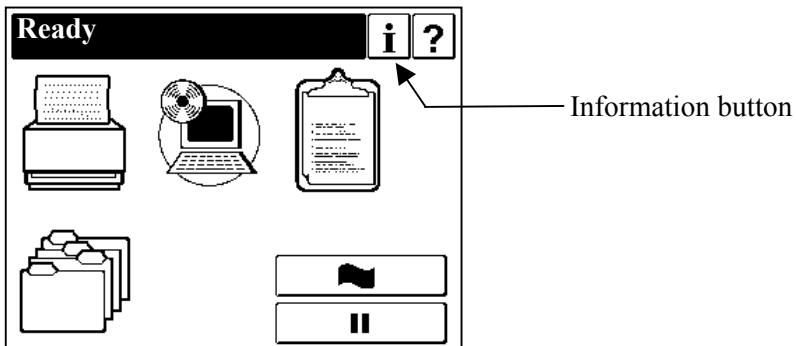
Installing the CE box cover and the Rear cover(R)

1. Plug the HDD power cable to the HDD.
2. Plug the FAN cable to controller board connector J21.
3. Plug the HDD cable to controller board connector J6.
4. Install the CE box cover with the twelve screws.
5. Install the Rear cover(R) of the printer with the four screws.

Note: Refer to the “Accessing the Controller Assembly”

Confirmation of Connection

1. Connect one end of the Ethernet cable in the network environment to the 10/100B-T connector on the Network Board Ass'y.
2. Plug the power cable of the printer.
3. Power on the printer, and touch “Information” button after “Ready” is displayed on the OCP.



CAUTION!

When turning on the printer, confirm the power supply of the network equipment (user environment) connected with the network cable is turned on. It becomes the network loading error, and the following work cannot be executed.

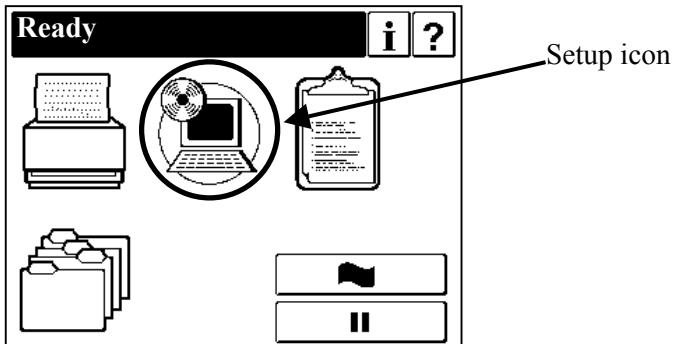
4. Touch “Network” button, and confirm that “10/100/1000B-T” and “10/100B-T NIC” buttons are displayed on the OCP. If these two network interfaces are displayed, the printer recognizes the Network Board Ass'y normally.

If the two network interfaces are not displayed but MAC address, IP address, and other network parameters are displayed, the printer does not recognize the Network Board Ass'y. There is a possibility of the loose connection when the Network Board Ass'y is installed. Check out the attachment procedure and then repeat the above-mentioned steps.

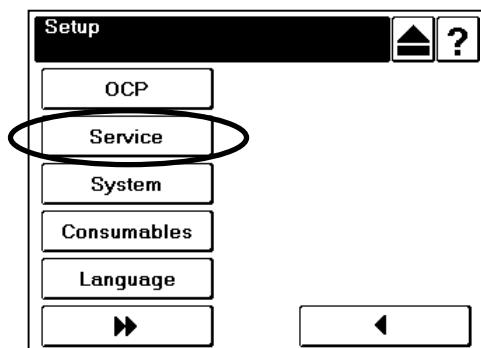
Upgrading of the Network Board Ass'y Software

Perform the upgrading of the print server software according to the procedure shown below.

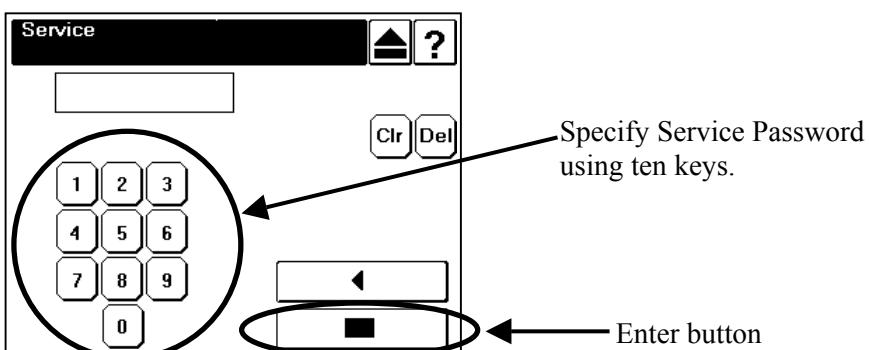
1. Touch the Setup icon on Main Menu.



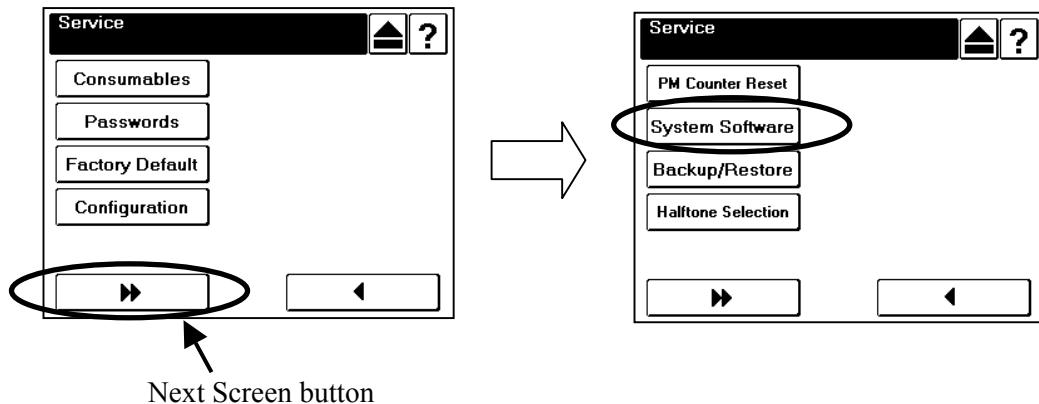
2. Touch "Service" button.



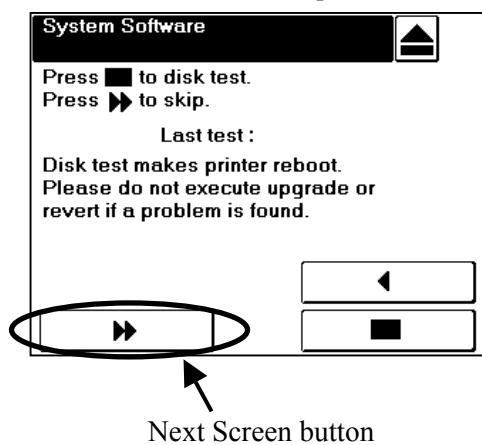
3. The input screen of "Service Password" is displayed. Touch the Enter button to enter "Service" menu without inputting the Service Password (factory-set default). When the Service Password is changed, type the new value and touch the Enter button.



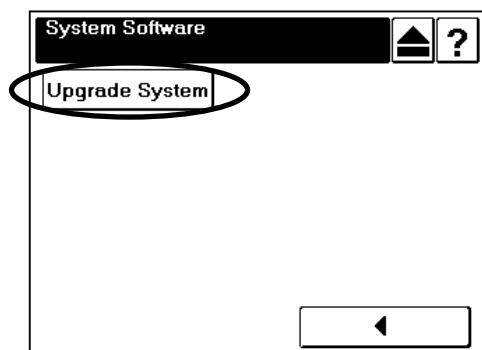
4. Touch the Next Screen button once to display the next screen, and touch "System Software" button.



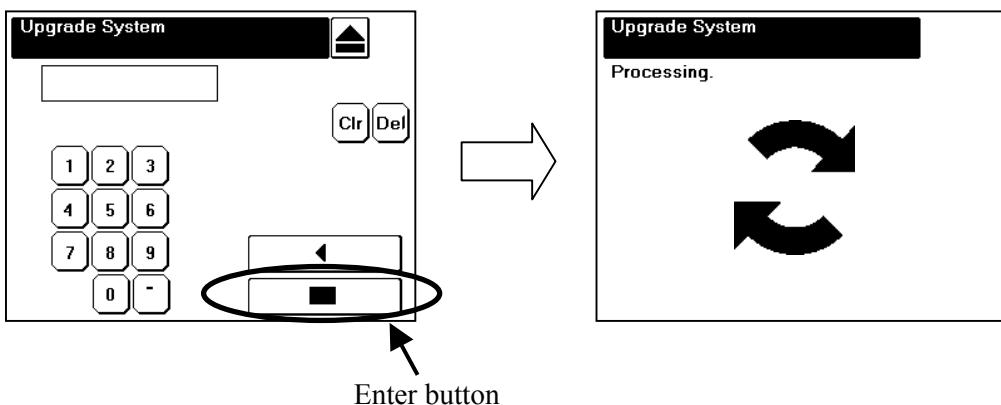
5. Touch the Next Screen button to skip the disk test.



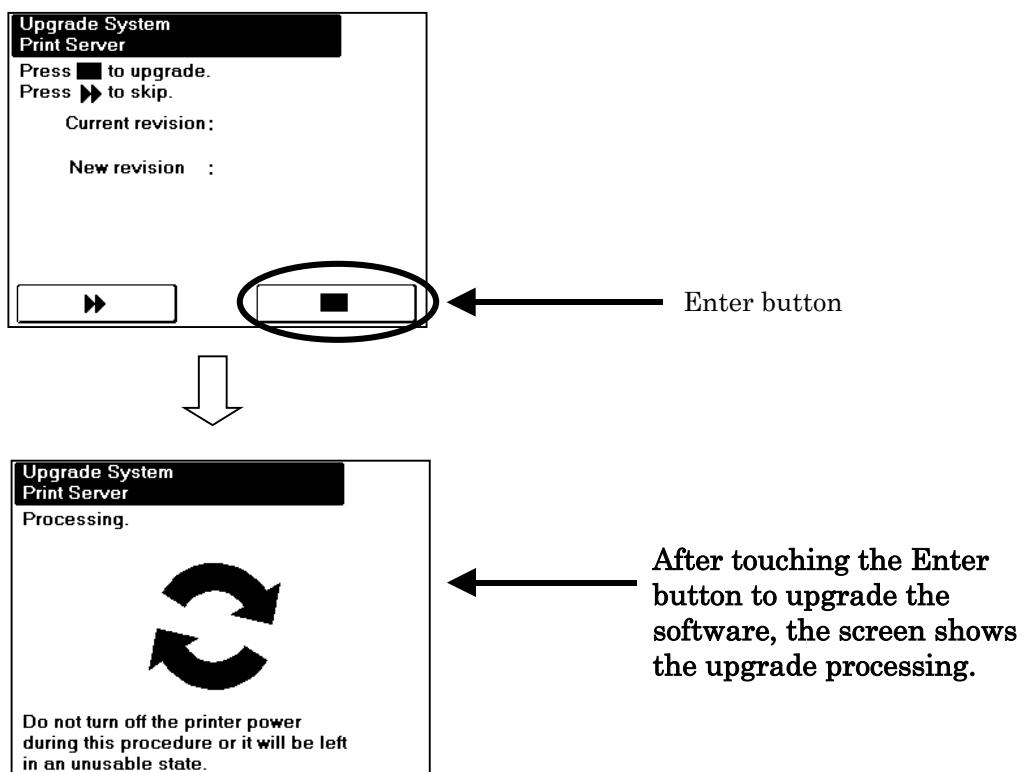
6. Touch "Upgrade System" button.



7. Touch the Enter button without inputting any Keycode because it is already set.
 The printer starts processing to prepare the upgrading. (It takes about 3 - 4 minutes.)



8. After the completion of upgrade preparation, the New Print Server Software Version is displayed on "New version" of the Print Server Upgrade screen. Touch the Enter button to upgrade the Print Server software.

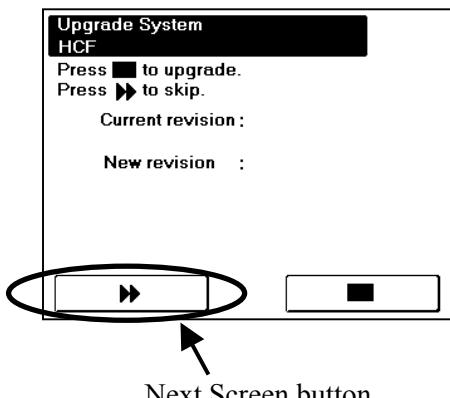


(NOTE) The upgrading time of the Print Server software will take 2 minutes.

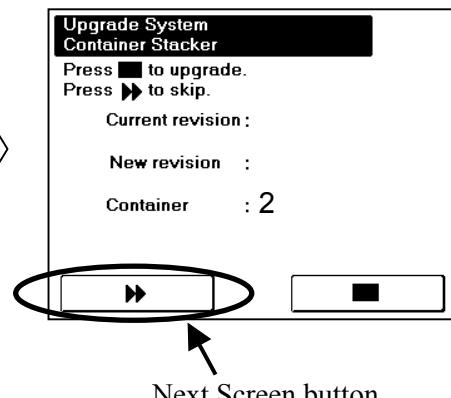
9. After finishing the Print Server upgrading, other upgrade screens (HCF^{*1}, Container Stacker 2^{*2}, Container Stacker 1, Print Engine-FPGA, Print Engine-Slave, Print Engine-Master, Controller, OCP Logo and OCP) are displayed. You have to skip them by touching the Next Screen button.

*1 : This menu is displayed only when the HCF is connected.

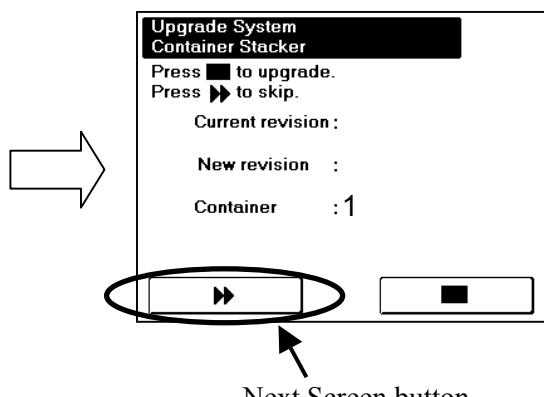
*2 : This menu is displayed only when the Container Stacker 2 is connected.



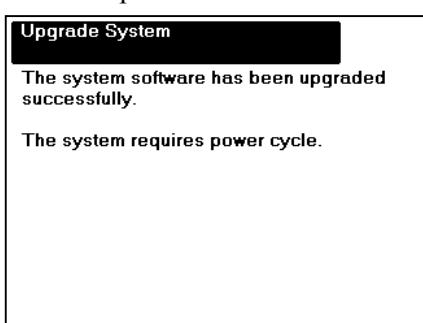
(NOTE)This menu is displayed only when the HCF is connected.



(NOTE)This menu is displayed only when the Container Stacker 2 is connected.



10. The following screen is displayed after skipping all other upgrade screens except the Print Server. Turn off and on the printer to restart with the upgraded software.

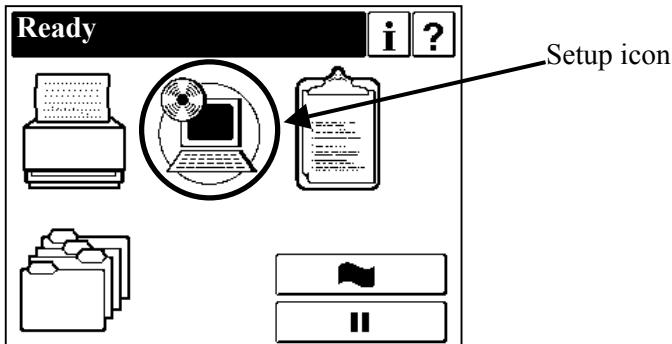


The software (Print Server) upgrade of the Network board Ass'y is completion now.

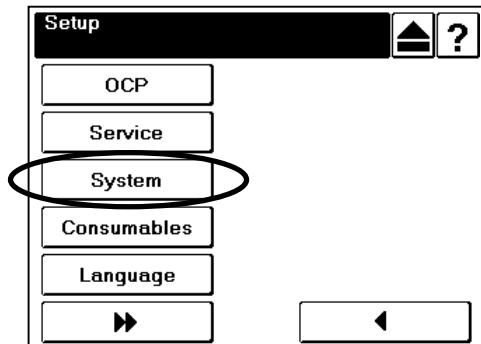
Set IP Address of the Network Board Ass'y

Perform the setting of IP Address according to the procedure shown below.

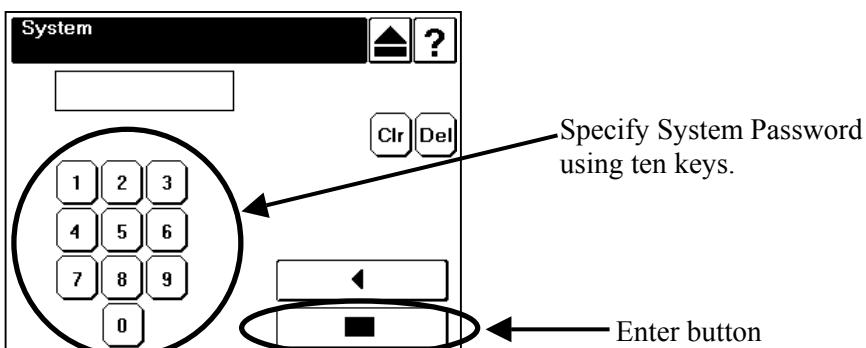
1. Touch the Setup icon on Main Menu.



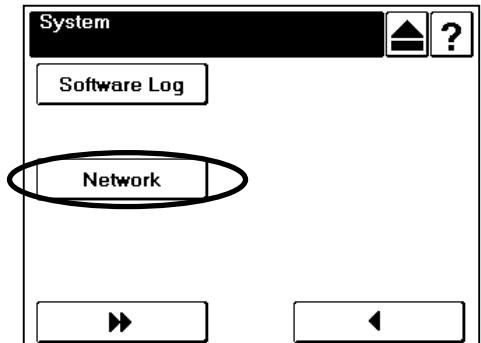
2. Touch "System" button.



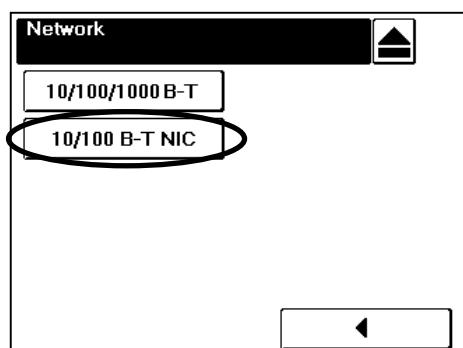
3. The input screen of "System Password" is displayed. Touch the Enter button to enter "System" menu without inputting the System Password (factory-set default). When the System Password is changed, type the new value and touch the Enter button.



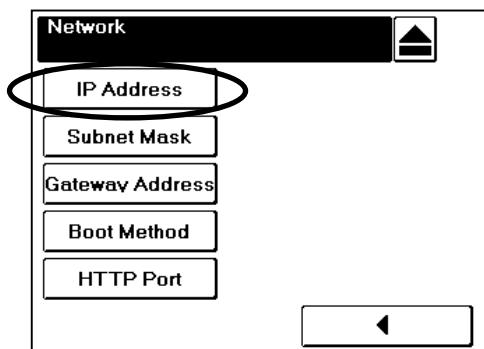
4. Touch “Network” button.



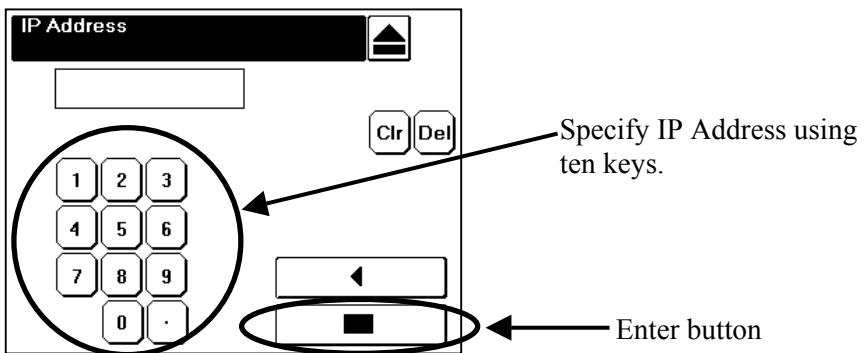
5. Touch “10/100B-T NIC” button.



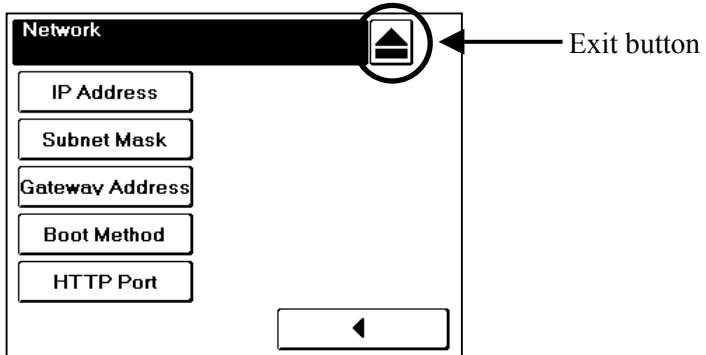
6. Touch “IP Address” button.



7. Enter IP Address for user environment by using ten keys, and touch the Enter button.



8. Touch "Exit " button.



Reset to Factory Default of the Controller configuration and the Network Board Ass'y

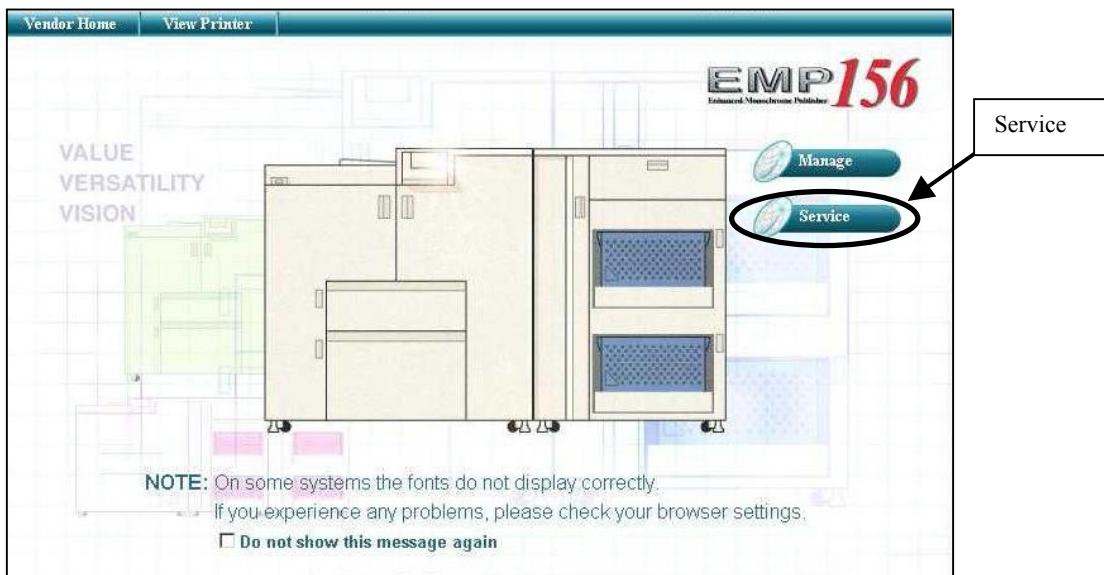
CAUTION!

When Factory Default is executed, please note that the following matter is generated.

- (1) Various printer setting values(indicated in table2) changed by user are reset to the factory default value.
- (2)VPT added by user is deleted.

1. Start the Internet Explorer from PC and enter the IP Address that set upper section.

2. Click "Service" button after displaying the first page as follows.



3. After displaying the page of the Enter Network Password, enter "service" in User Name and click "OK" button without entering the Password (factory-set default). When the Service Password is changed, enter the new value and click "OK" button.



4. Click “Reset” button.

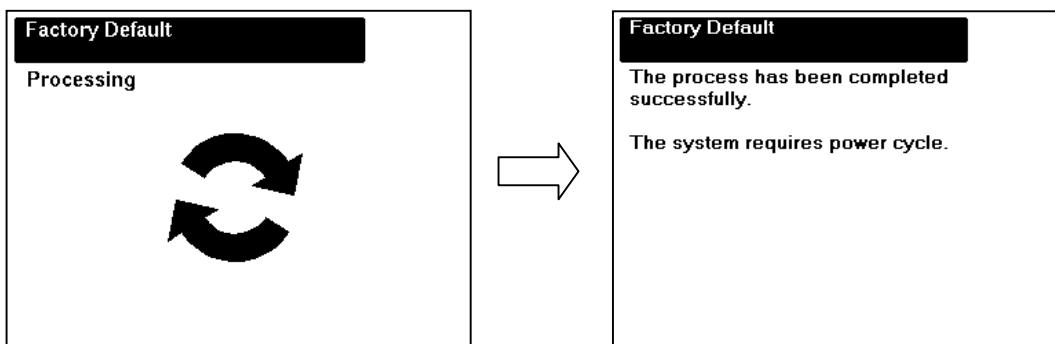
The screenshot shows the 'Service - Consumables' page. On the left, there's a sidebar with 'Service' selected. Under 'Service', 'Reset' is highlighted with a red box. At the bottom right of the main content area, there's a 'Reset Counter' button.

Consumable	Current	Limit	Status
N/A Developer Mix [KCycle]	254	800	
<input type="checkbox"/> Heat Roll [KPick]	79	2400	
<input type="checkbox"/> OPC Sheet [KCycle]	303	450	
<input type="checkbox"/> Backup Roll [KPick]	86	2400	
<input type="checkbox"/> Cleaner Brush [KCycle]	373	2500	
<input type="checkbox"/> Transfer Belt [KCycle]	95	1600	
<input type="checkbox"/> Fuser Web [KPick]	10	600	

5. Check the “Complete Reset” and click the “Submit” button.

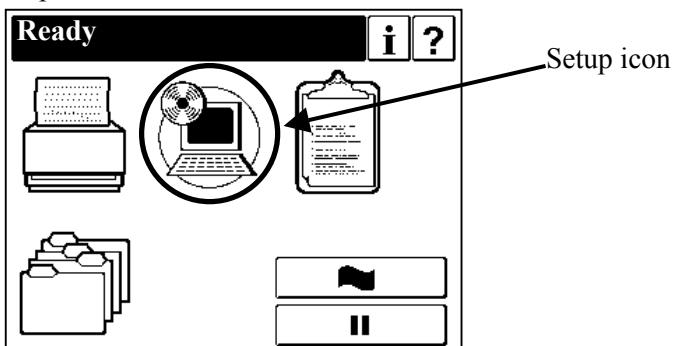
The screenshot shows the 'Service - Reset' page. In the sidebar, 'Service' is selected. Under 'Service', 'Reset' is highlighted with a red box. In the main content area, the 'Complete Reset' radio button is selected and highlighted with a red circle. At the bottom right, there's a 'Submit' button.

6. After the above-mentioned operation is executed, the following screens are displayed in OCP of the printer. Then execute power cycle the printer.

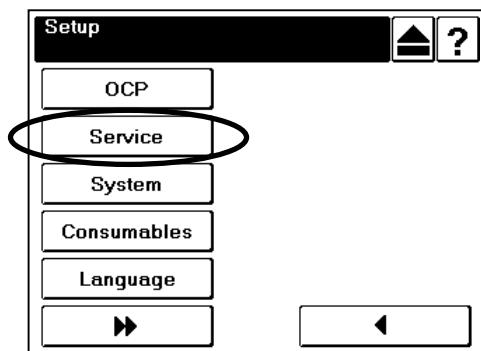


Backup All

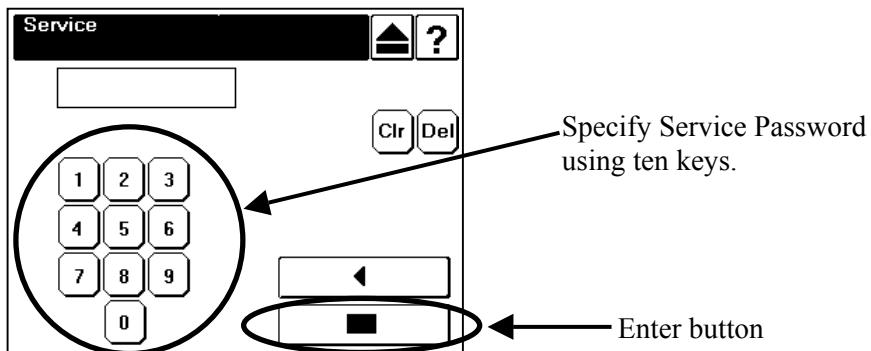
1. Power on the printer.
2. Touch the Setup icon on Main Menu.



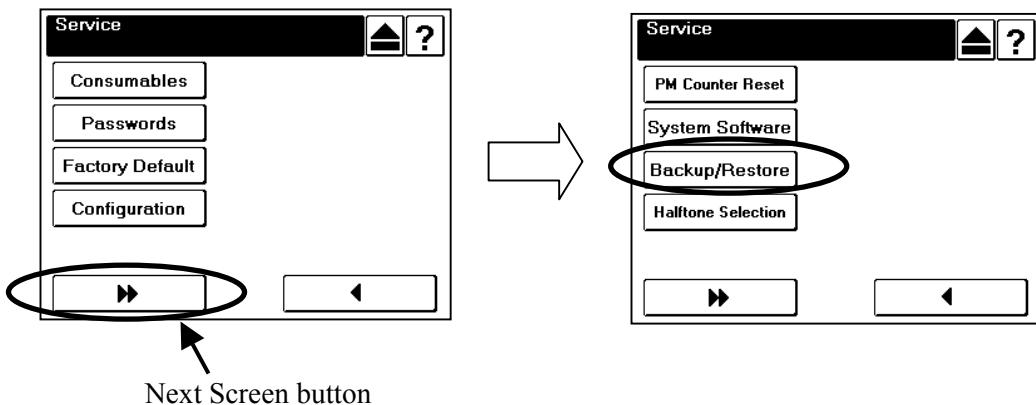
3. Touch "Service" button.



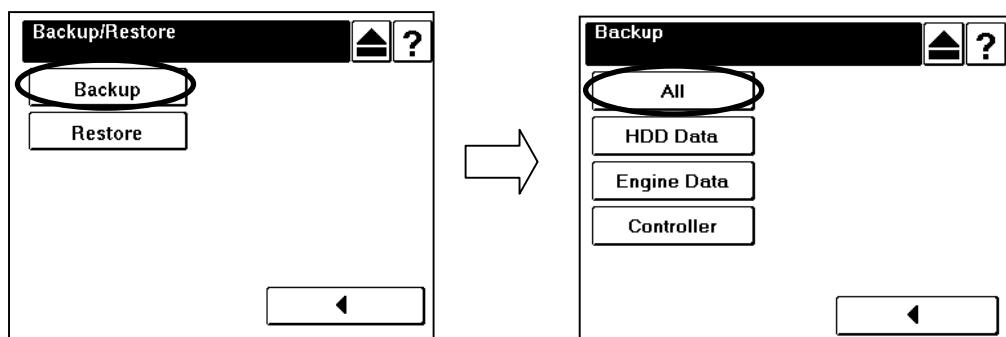
4. The input screen of “Service Password” is displayed. Touch the Enter button to enter “Service” menu without inputting the Service Password (factory-set default). When the Service Password is changed, type the new value and touch the Enter button.



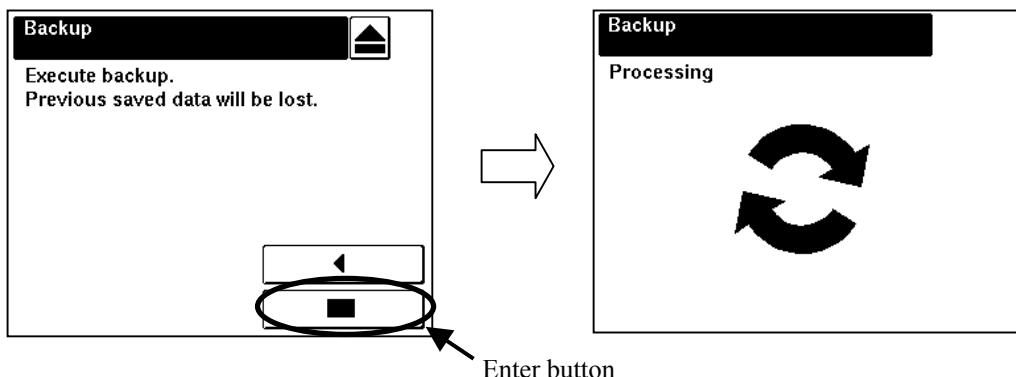
5. Touch the Next Screen button once to display the next screen, and touch "Backup/Restore" button.



6. Touch the “Backup” button, and touch “All” button.

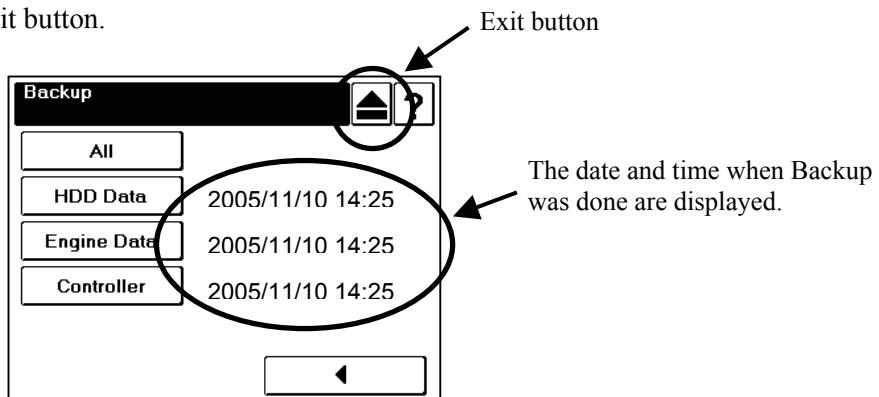


7. Touch the Enter button, then the screen shows the Backup processing.



Note: The Backup time will take approx. 1 minutes.

8. Touch the Exit button.



9. Execute the “Set IP Address of the Network Board Ass'y”(page 36) again.

10. Execute the “Print Status Page”(page 27) again.

Table2. Printer setting value list reset in initial value by Factory Default

		Items	Factory Default
OCP:Printer Menu			
Paper Source	Default Paper Source		AutoSelect
	Paper Size	Tray1	Standard Paper Size Folio SEF Custom Size(Width) 8.5"/215.9mm Custom Size(Length) 11"/279.4mm
		Tray2	Standard Paper Size Folio SEF Custom Size(Width) 8.5"/215.9mm Custom Size(Length) 11"/279.4mm
		HCF1 Lower	Standard Paper Size Folio SEF Custom Size(Width) 8.5"/215.9mm Custom Size(Length) 11"/279.4mm
		HCF1 Upper	Standard Paper Size Folio SEF Custom Size(Width) 8.5"/215.9mm Custom Size(Length) 11"/279.4mm
		HCF2 Lower	Standard Paper Size Folio SEF Custom Size(Width) 8.5"/215.9mm Custom Size(Length) 11"/279.4mm
		HCF2 Upper	Standard Paper Size Folio SEF Custom Size(Width) 8.5"/215.9mm Custom Size(Length) 11"/279.4mm
	Paper Type	Tray1 Tray2 HCF1 Lower HCF1 Upper HCF2 Lower HCF2 Upper	Plain Plain Plain Plain Plain Plain
	Paper Color		White
	Paper Weight	Tray1 Tray2 HCF1Lower HCF1 Upper HCF2 Lower HCF2 Upper	20-lb bond 20-lb bond 20-lb bond 20-lb bond 20-lb bond 20-lb bond
	HV Adjust	Front – Width/Length Back – Width/Length	0" / 0" 0" / 0"
Default Output	Default Output		CS1 Lower
	Stacking Level	1Lower:Short 1Lower:Long 1Upper:Short 1Upper:Long 2Lower:Short 2Lower:Long 2Upper:Short 2Upper:Long	100% 100% 100% 100% 100% 100% 100% 100%
Option	Exit-Jam Recovery Wait TimeOut LPD Queuing Duplex–Always Auto Proof Sample		Enable 40 Disable Disable 0

Continuation of Table 2

Items			Factory Default
Postscript	Print Errors		Enable
	Best Fit		Enable
	Job TimeOut		0
	Halftone Density *4		Medium
PCL	Wide A4		Disable
	Requested Tray		Exclusively
OCP: Setup Menu			
OCP	Brightness		10
	Contrast		10
	Volume		3
Service	Halftone Selection		Disable
System	Network (AUX)	Boot Method	STATIC
		HTTP	80
	Calendar	TimeZone	GMT
	Energy Save Mode		Enable
	Energy Save Time		15
	public r/w		Disable
Language			English
Web: Manage – System Menu			
General	Option	Exit Jam Recovery	Enable
		Wait Timeout (0–999)	40
		*PDL Memory Size (6–50)	16
	PostScript	Print Errors	Enable
		Best Fit	Enable
		Job Timeout (0, 15–999)	0
		*Memory Size (7.5 – 15)	11.8
Tray	HV Adjust		0,0,0
	Paper Color		Color 1 – Color 16
Virtual Printer	Default	General	Auto Select
		Paper Handling	Paper Source
			Auto Select
			Paper Size
			Letter LEF
			Paper Type
			Plain
			Paper Output
			CS1 Lower
			Copies(1–999)
			1
			Collate
			Enable
		PCL *1	Job Offset
			Disable
			Duplex
			Binding
			Long Edge
			Edge-to-Edge
	PCL *1	Page Orientation	Portrait
		Page Length (5 – 127)	60
		Line Termination	CR->CR ; LF->LF ; FF->FF
		Line Wrap	Off
		Font-Source	Internal
		Font-Number	23
	PCL *1	Font-Symbol Set	PC-8
		Font-Height (4 – 999.75)	12
		Font-Pitch (0.44 – 99.99)	10

*1 : It is displayed when the values other than "Postscript" are set in "General – Emulation" menu.

*4 : It is displayed when [Setup]–[Service]–[Halftone Selection] is set to Enable.

Continuation of Table 2

Items			Factory Default
Virtual Printer	Default	PostScript *2	PostScript I/O Mode ^C Response Paper Color
	lp	General	Channel Name Emulation Protocol Spooling *3 LPD Banner Page Accounting Slip Sheet
		Paper Handling	Paper Source Paper Size Paper Type Paper Output Copies(1-999) Collate Job Offset Duplex Binding Edge-to-Edge
		PCL *1	Page Orientation Page Length (5 - 127) Line Termination Line Wrap Font-Source Font-Number Font-Symbol Set Font-Height (4 - 999.75) Font-Pitch (0.44 - 99.99)
		PostScript *2	PostScript I/O Mode ^C Response Paper Color
	text	General	Channel Name Emulation Protocol Spooling *3 LPD Banner Page Accounting Slip Sheet
		Paper Handling	Paper Source Paper Size Paper Type Paper Output Copies(1-999) Collate Job Offset Duplex Binding Edge-to-Edge

*1 : It is displayed when the values other than "Postscript" are set in "General - Emulation" menu.

*2 : It is displayed when the values other than "PCL" are set in "General - Emulation" menu.

*3 : It is not displayed when the NIC is installed.

Continuation of Table 2

Items			Factory Default
Virtual Printer	text	PCL *1	Page Orientation Page Length (5 – 127) Line Termination Line Wrap Font-Source Font-Number Font-Symbol Set Font-Height (4 – 999.75) Font-Pitch (0.44 – 99.99)
		PostScript *2	PostScript I/O Mode ^C Response Paper Color
	vp-pcl	General	Channel Name Emulation Protocol Spooling *3 LPD Banner Page Accounting Slip Sheet
		Paper Handling	Paper Source Paper Size Paper Type Paper Output Copies(1-999) Collate Job Offset Duplex Binding Edge-to-Edge
		PCL *1	Page Orientation Page Length (5 – 127) Line Termination Line Wrap Font-Source Font-Number Font-Symbol Set Font-Height (4 – 999.75) Font-Pitch (0.44 – 99.99)
		PostScript *2	PostScript I/O Mode ^C Response Paper Color

*1 : It is displayed when the values other than "Postscript" are set in "General – Emulation" menu.

*2 : It is displayed when the values other than "PCL" are set in "General – Emulation" menu.

*3 : It is not displayed when the NIC is installed.

Continuation of Table 2

Items			Factory Default
Virtual Printer	Postscript	General	Channel Name Emulation Protocol Spooling *3 LPD Banner Page Accounting Slip Sheet
		Paper Handling	Paper Source Paper Size Paper Type Paper Output Copies(1-999) Collate Job Offset Duplex Binding Edge-to-Edge
		PCL *1	Page Orientation Page Length (5 – 127) Line Termination Line Wrap Font-Source Font-Number Font-Symbol Set Font-Height (4 – 999.75) Font-Pitch (0.44 – 99.99)
		PostScript *2	PostScript I/O Mode ^C Response Paper Color
	ascii_portrait	General	Channel Name Emulation Protocol Spooling *3 LPD Banner Page Accounting Slip Sheet
		Paper Handling	Paper Source Paper Size Paper Type Paper Output Copies(1-999) Collate Job Offset Duplex Binding Edge-to-Edge

*1 : It is displayed when the values other than "Postscript" are set in "General – Emulation" menu.

*2 : It is displayed when the values other than "PCL" are set in "General – Emulation" menu.

*3 : It is not displayed when the NIC is installed.

Continuation of Table 2

Items			Factory Default
Virtual Printer	ascii_portrait	PCL *1	Page Orientation Portrait
			Page Length (5 – 127) 60
			Line Termination CR->CR ; LF->LF ; FF->FF
			Line Wrap Off
			Font-Source Internal
			Font-Number 23
			Font-Symbol Set PC-8
			Font-Height (4 – 999.75) 12
			Font-Pitch (0.44 – 99.99) 10
			PostScript I/O Mode Normal
ascii_landscape	General	PostScript *2	^C Response Enable
			Paper Color White
			Channel Name ascii_landscape
			Emulation PCL
			Protocol 3105
			Spooling *3 None
			LPD Banner Page Disable
			Accounting Slip Sheet Disable
			Paper Source Auto Select
			Paper Size Letter LEF
ip_portrait	General	Paper Handling	Paper Type Plain
			Paper Output Auto Select
			Copies(1-999) 1
			Collate Enable
			Job Offset Disable
			Duplex Disable
			Binding Short Edge
			Edge-to-Edge Disable
			PCL Orientation Landscape
			Page Length (5 – 127) 45
ip_landscape	General	PCL *1	Line Termination CR->CR ; LF->LF ; FF->FF
			Line Wrap Off
			Font-Source Internal
			Font-Number 23
			Font-Symbol Set PC-8
			Font-Height (4 – 999.75) 12
			Font-Pitch (0.44 – 99.99) 10
			PostScript I/O Mode Normal
			^C Response Enable
			Paper Color White
ip_landscape	General	PostScript *2	Channel Name ip_portrait
			Emulation PCL
			Protocol 3106
			Spooling *3 None
			LPD Banner Page Disable
			Accounting Slip Sheet Disable

*1 : It is displayed when the values other than "Postscript" are set in "General – Emulation" menu.

*2 : It is displayed when the values other than "PCL" are set in "General – Emulation" menu.

*3 : It is not displayed when the NIC is installed.

Continuation of Table 2

Items			Factory Default	
Virtual Printer	lp_portrait	Paper Handling	Paper Source	Auto Select
			Paper Size	Letter LEF
			Paper Type	Plain
			Paper Output	Auto Select
			Copies(1-999)	1
			Collate	Enable
			Job Offset	Disable
			Duplex	Disable
			Binding	Short Edge
			Edge-to-Edge	Disable
	PCL *1		Page Orientation	Portrait
			Page Length (5 - 127)	60
			Line Termination	CR->CR ; LF->LF ; FF->FF
			Line Wrap	Off
			Font-Source	Internal
			Font-Number	23
			Font-Symbol Set	PC-8
			Font-Height (4 - 999.75)	12
			Font-Pitch (0.44 - 99.99)	10
	PostScript *2		PostScript I/O Mode	Normal
			^C Response	Enable
			Paper Color	White
	lp_landscape	General	Channel Name	lp_landscape
			Emulation	PCL
			Protocol	3107
			Spooling *3	None
			LPD Banner Page	Disable
			Accounting Slip Sheet	Disable
	Paper Handling		Paper Source	Auto Select
			Paper Size	Letter LEF
			Paper Type	Plain
			Paper Output	Auto Select
			Copies(1-999)	1
			Collate	Enable
			Job Offset	Disable
			Duplex	Disable
			Binding	Short Edge
	PCL *1		Edge-to-Edge	Disable
			Page Orientation	Landscape
			Page Length (5 - 127)	45
			Line Termination	CR->CR ; LF->LF ; FF->FF
			Line Wrap	Off
			Font-Source	Internal
			Font-Number	23
			Font-Symbol Set	PC-8
			Font-Height (4 - 999.75)	12
			Font-Pitch (0.44 - 99.99)	15

*1 : It is displayed when the values other than "Postscript" are set in "General - Emulation" menu.

*2 : It is displayed when the values other than "PCL" are set in "General - Emulation" menu.

*3 : It is not displayed when the NIC is installed.

Continuation of Table 2

Items			Factory Default
Virtual Printer	lp_landscape	PostScript *2	PostScript I/O Mode ^C Response Paper Color
	pdf	General	Channel Name Emulation Protocol Spooling *3 LPD Banner Page Accounting Slip Sheet
		Paper Handling	Paper Source Paper Size Paper Type Paper Output Copies(1-999) Collate Job Offset Duplex Binding Edge-to-Edge
		PCL *1	Page Orientation Page Length (5 - 127) Line Termination Line Wrap Font-Source Font-Number Font-Symbol Set Font-Height (4 - 999.75) Font-Pitch (0.44 - 99.99)
		PostScript *2	PostScript I/O Mode ^C Response Paper Color
	tiff	General	Channel Name Emulation Protocol Spooling *3 LPD Banner Page Accounting Slip Sheet
		Paper Handling	Paper Source Paper Size Paper Type Paper Output Copies(1-999) Collate Job Offset Duplex Binding Edge-to-Edge

*1 : It is displayed when the values other than "Postscript" are set in "General - Emulation" menu.

*2 : It is displayed when the values other than "PCL" are set in "General - Emulation" menu.

*3 : It is not displayed when the NIC is installed.

Continuation of Table 2

Items			Factory Default
Virtual Printer	tiff	PCL *1	Page Orientation
			Portrait
			Page Length (5 – 127)
			60
			Line Termination
			CR->CR ; LF->LF ; FF->FF
			Line Wrap
			Off
			Font-Source
			Internal
Virtual Printer	pclxl	PostScript *2	Font-Number
			23
			Font-Symbol Set
			PC-8
			Font-Height (4 – 999.75)
			12
			Font-Pitch (0.44 – 99.99)
			10
			PostScript I/O Mode
			Normal
Virtual Printer	prt2file *3	General	^C Response
			Enable
			Paper Color
			White
			Channel Name
			pclxl
			Emulation
			PCLXL
			Protocol
			3112
Virtual Printer	prt2file *3	Paper Handling	Spooling *3
			None
			LPD Banner Page
			Disable
			Accounting Slip Sheet
			Disable
			Paper Source
			Auto Select
			Paper Size
			Letter LEF
Virtual Printer	prt2file *3	PCL *1	Paper Type
			Plain
			Paper Output
			Auto Select
			Copies(1-999)
			1
			Collate
			Enable
			Job Offset
			Disable
Virtual Printer	prt2file *3	PostScript *2	Duplex
			Disable
			Binding
			Short Edge
			Edge-to-Edge
			Disable
			Page Orientation
			Portrait
			Page Length (5 – 127)
			60
Virtual Printer	prt2file *3	General	Line Termination
			CR->CR ; LF->LF ; FF->FF
			Line Wrap
			Off
			Font-Source
			Internal
			Font-Number
			23
			Font-Symbol Set
			PC-8
Virtual Printer	prt2file *3	General	Font-Height (4 – 999.75)
			12
			Font-Pitch (0.44 – 99.99)
			10
			PostScript I/O Mode
			Normal
			^C Response
			Enable
			Paper Color
			White
Virtual Printer	prt2file *3	General	Channel Name
			prt2file
			Emulation
			Auto Select
			Protocol
			7101
			Spooling *3
Virtual Printer	prt2file *3	General	Capture to File
			Maxmun File Size *3
			20000
			LPD Banner Page
			Disable
Virtual Printer	prt2file *3	General	Accounting Slip Sheet
			Disable

*1 : It is displayed when the values other than "Postscript" are set in "General – Emulation" menu.

*2 : It is displayed when the values other than "PCL" are set in "General – Emulation" menu.

*3 : It is not displayed when the NIC is installed.

Continuation of Table 2

		Items	Factory Default	
Virtual Printer	ppt2file *3	Paper Handling	Paper Source	Auto Select
			Paper Size	Letter LEF
			Paper Type	Plain
			Paper Output	Auto Select
			Copies(1-999)	1
			Collate	Enable
			Job Offset	Disable
			Duplex	Disable
			Binding	Short Edge
			Edge-to-Edge	Disable
		PCL *1	Page Orientation	Portrait
			Page Length (5 - 127)	60
			Line Termination	CR->CR ; LF->LF ; FF->FF
			Line Wrap	Off
			Font-Source	Internal
			Font-Number	23
			Font-Symbol Set	PC-8
			Font-Height (4 - 999.75)	12
			Font-Pitch (0.44 - 99.99)	10
		PostScript *2	PostScript I/O Mode	Normal
			^C Response	Enable
			Paper Color	White

Web : Manage – Configuration Menu

General	Customer	Company Legal Name	(blank)
		Phone Number	(blank)
		Fax Number	(blank)
		Street Address	(blank)
		City, State/Region, Zip/Postal Code	(blank)
		Country	(blank)
Events	Printer	Name	EMP-156
		Location	(blank)
	Service Contact	Name	(blank)
		Phone Number	(blank)
		Fax Number	(blank)
		E-mail	(blank)
	Accounting Information	Accounting Period Start Day of the Month:	1
Configuration	Non Paper Jam Error	Check Box	Disable
	Jam Error Warning	Check Box	Disable
		Times	3
	Toner Low	Check Box	Disable
	Staple Empty	Check Box	Disable
	Accounting	Check Box	Disable
Misc	Country Code		1
	Energy Save Time		Enabled
	Energy Save Time (15 - 230)		15

*1 : It is displayed when the values other than "Postscript" are set in "General – Emulation" menu.

*2 : It is displayed when the values other than "PCL" are set in "General – Emulation" menu.

*3 : It is not displayed when the NIC is installed.

Continuation of Table 2

Items			Factory Default
Configuration	Calendar	Time Server (Primary)	(blank)
		Time Server (Secondary)	(blank)
		Synchronization Time	0
		Set Manually	Enable
		Use Daylight Saving	Disable
		Start with	3, 1, 2
		End with	10, 1, 2
	Tray Mapping	Default Tray Mapping	100/200
	ID 0	106/206	0
		107/207	0
	ID 1	106/206	1
		107/207	1
	ID 2	106/206	4
		107/207	4
	ID 3	106/206	4
		107/207	4
	ID 4	106/206	5
		107/207	5
	ID 5	106/206	2
		107/207	2
	ID 6	106/206	4
		107/207	4
	ID 7	106/206	0
		107/207	0
	ID 8	106/206	3
		107/207	3
	ID 9 – 69	106/206	0
		107/207	0
Communication	TCP/IP (AUX)	SMTP Server Address	0.0.0.0
		Domain Name	(blank)
		Internet Printing Protocol (IPP)	Disable
		Direct printing with TCP	Enable
		LPR/LPD	Enable
		FTP	Disable

Continuation of Table 2

Items			Factory Default
Web:Service – Configuration Menu			
Events	Preventive Maintenance Warning	Check Box	Disable
		Percent	75
	Preventive Maintenance	Check Box	Disable
	Engine Page Count Exceeds	Check Box	Disable
		KPages	200
	Printer Logs	Check Box	Disable
		KPages	200
Dealer	Name		(blank)
	Phone Number		(blank)
	Fax Number		(blank)
	Street Address		(blank)
	City, State/Region, Zip/Postal Code		(blank)
	Country		(blank)
	E-Mail		(blank)
	URL		(blank)