

Upgrade Instruction for DDP184 Controller Software

1. Purpose

This document is used for upgrade software of DDP184.

2. Necessary parts and working minutes

- (1) Software update CD x1
- (2) Upgrade Instruction (This material) x1

Working minutes : approx. 120 min.

3. Procedure Overview

Execute procedures according to the following order.

- (1) Confirming current revision of software before upgrading
- (2) Installing System Software
 - > Downloading System Software
 - > Upgrading Software
- (3) Confirming new revision of software after upgrading
- (4) Backup

= NOTICE =

Execute "Backup" exactly. Otherwise, the automatic backup processing can not work.

- (5) Paint the printer revision seal

4. Necessary tools

- Personal Computer for downloading software x 1

This PC is Installed MS-Windows OS (95/98/NT4.0/2000/XP) and CD drive. And it is capable of connecting network with Ethernet cable.

- Ethernet Cross cable x 1
- Black permanent marker (oil-based ink pen)

Procedure of Update for Controller Software

1. System Software

The Update CD includes Engine Micro, Controller and OCP Software. If you need to upgrade the Controller software components, you can update them by using this CD.



CAUTION

- (a) **You must follow this procedure for upgrading each software, otherwise the system may get serious problem.**
- (b) **Separate the Printer from the network. And connect the Printer and PC in 1 to 1 by an Ethernet cross cable.**

1. 1 System Software Installation Reminders

Keep in mind the following when installing system software:

HDD --- A corrupted or damaged HDD Maintenance Ass'y(xx) cannot be updated in the field. Update software, after exchanges it for normal HDD Maintenance Ass'y.

INSTALLATION --- Use PC installed Windows OS (95, 98, NT4.0, 2000 or XP) for installing System Software. Do not transmit job to the printer and do not turn off power switch while installing System Software.

1. 2 Confirming current revision of controller software

1. Turn on power switch of the printer.
2. Confirm current revision of front controller and rear controller with following OCP menu.



(Information)/ Printer/ Front/ Controller Revision



(Information)/ Printer/ Rear/ Controller Revision

Or, confirm current revision of it with Status page printed with following menu.



(Reports)/ Status

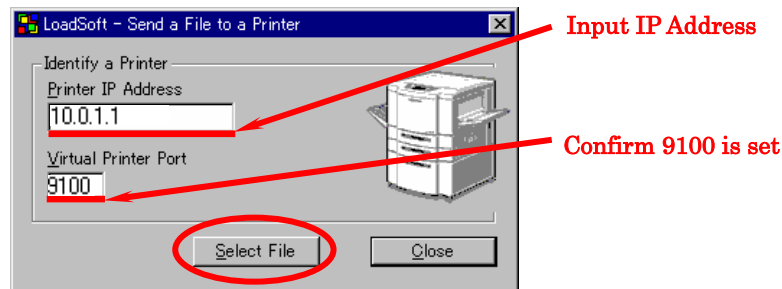
1. 3 Installing System Software

1. Install the Firmware Update CD into a network-capable PC.

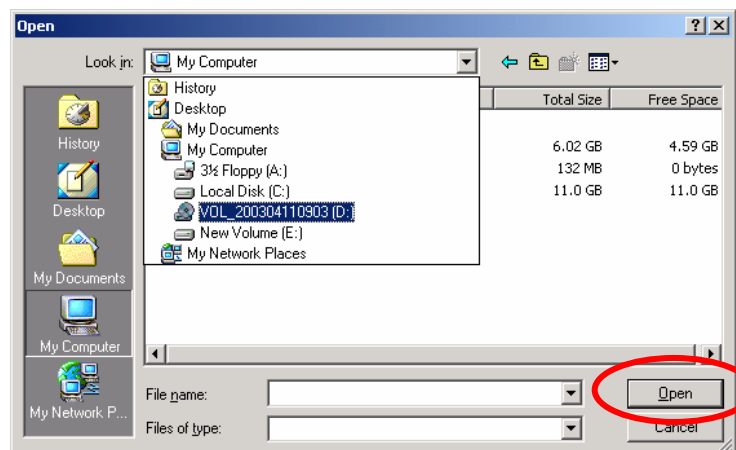
2. Downloading System Software

Transmit PJJ data to the Virtual Printer port (the VP name: Auto-select, the port number is 9100) of the printer with "LoadSoft.exe" according to the following procedures. The PJJ data and the "LoadSoft.exe" are in the Update CD.

- (1) Using a network-capable PC the IP address must be set to **10.0.1.21** in order to connect to the Front Engine.
- (2) Disconnect the **Front Engine Ethernet cable** from the back of the DDP Server and attach it to the PC.
- (3) Open Explorer on the PC.
- (4) Start "LoadSoft.exe", which is in the Update CD, with double click.
- (5) "LoadSoft-Send a File to a Printer" window is appeared.
- (6) Input IP address: **10.0.1.1** of the **front printer** into "Printer IP Address" box.
- (7) Confirm that 9100 is set into "Virtual Printer Port" box. If 9100 is not set, input it into the box.
- (8) Click [Select File] button.

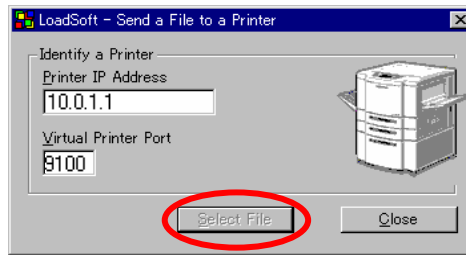


- (9) "Open" window is appeared.
- (10) Select CD drive, select "**DDP184PCLonly.pjl**" file in CD as follows and click [Open] button.



- (11) If IP address is incorrect, a dialog box will open and report "Socket Connection Error". In this case, set IP address correctly.

(12) Selected PJI data are transmitted to the printer and [Select File] button on “LoadSoft-Send a File to a Printer” is grayed out.



Wait until the button becomes active again. This is an indication that the load is complete. It takes a few minutes to load.

Warning: Do not quit this application and do not disconnect Ethernet cable until the load is completed.

When complete:

(13) Disconnect the Ethernet cable from the PC and reconnect to the DDP Server.

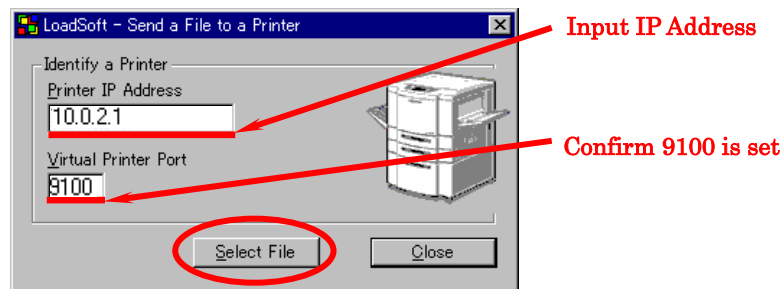
(14) Disconnect the **Rear Engine Ethernet cable** from the back of the DDP Server and attach it to the PC.

(15) Using the same PC, set the IP address to **10.0.2.21**.

(16) Input IP address: **10.0.2.1** of the **rear printer** into “Printer IP Address” box.

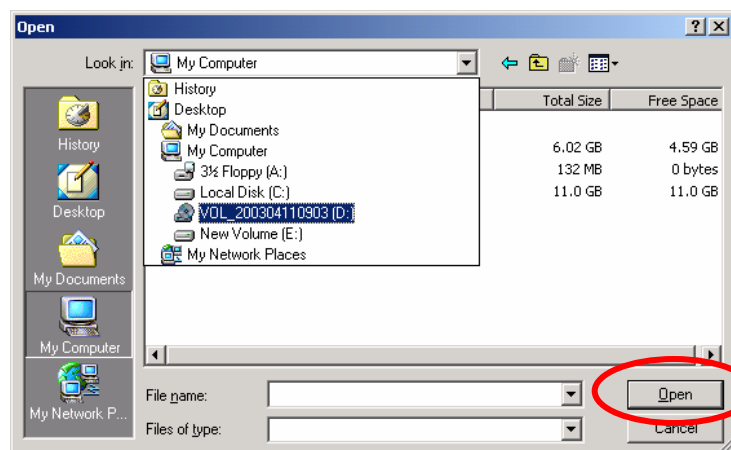
(17) Confirm that 9100 is set into “Virtual Printer Port” box. If 9100 is not set, input it into the box.

(18) Click [Select File] button.



(19) “Open” window is appeared.

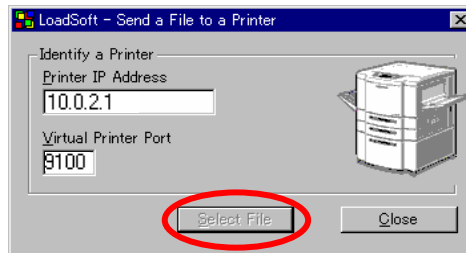
(20) Select CD drive, select “**DDP184PCLonly.pjl**” file in CD as follows and click [Open] button.



(21) If IP address is incorrect, a dialog box will open and report “Socket Connection Error”.

In this case, set IP address correctly.

(22) Selected PJI data are transmitted to the printer and [Select File] button on “LoadSoft-Send a File to a Printer” is grayed out.




Wait until the button becomes active again. This is an indication that the load is complete. It takes a few minutes to load.

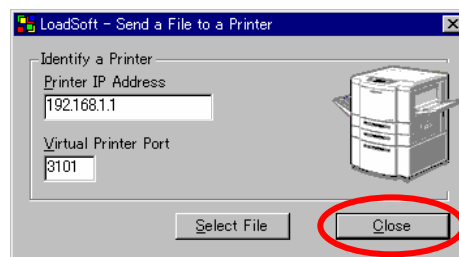
Warning: Do not quit this application and do not disconnect Ethernet cable until the load is completed.

When complete:

(23) Disconnect the Ethernet cable from the PC and reconnect to the DDP Server.

(24) After [Select File] button become Active, press  button on the operator control panel of the printer and confirm that any job are not displayed on the panel. While any job is displayed, the printer is processing. In this case, go back to “Online” screen and wait until any job is not display on the screen.

(25) After completing process (24), Click [Close] button then “LoadSoft.exe” will close.



1. 4 Upgrading Software

When the load is complete, make the following selection from the OCP.

Setup / Service / “Password” / ■ / ► / System Software / ►^{*1} / ►^{*2} / Upgrade System / (Front Printer Key Code)^{*3} / ■ / Rear Printer Key Code)^{*3} / ■

*1 : Press ► button in order to skip Disk Check function of front printer.

Note that Disk Check will take 30 min. if you execute.

*2 : Press ► button in order to skip Disk Check function of rear printer.

Note that Disk Check will take 30 min. if you execute.

*3 : Key-code is set when shipped at factory.

You don't need to change key-code on this menu.

The software components are:

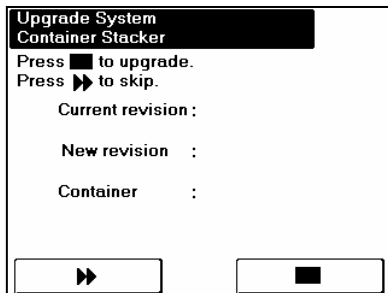
- Container Stacker^{*4}
- Container Stacker^{*5}
- Relay Unit – Slave
- Relay Unit – Master
- Rear Print Engine – Master
- Rear Print Engine - Slave
- Front Print Engine – Master

- Front Print Engine – Slave
- Rear Controller
- Front Controller
- OCP Logo
- OCP

*4 This menu is displayed only when the container stacker 1 is connected.

*5 This menu is displayed only when the container stacker 2 is connected.

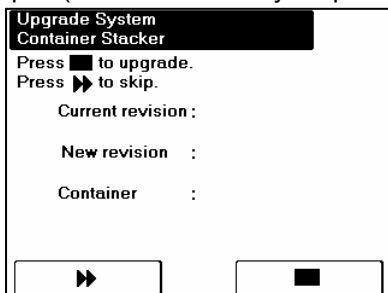
(1) Press “■” button if the Container Stacker 1 software needs to be upgraded, otherwise press “▶▶” button to skip it. (If the revision on your printer is not as same as current, you need to install this software.)



The upgrading time of Container Stacker 1 software will take 5 minutes.

(Note) This menu is displayed only when the container stacker 1 is connected.

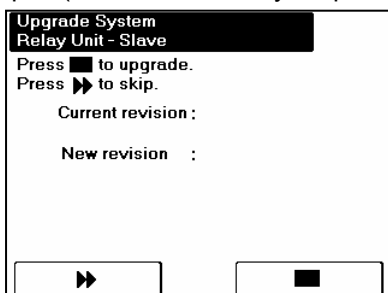
(2) Press “■” button if the Container Stacker 2 software needs to be upgraded, otherwise press “▶▶” button to skip it. (If the revision on your printer is not as same as current, you need to install this software.)



The upgrading time of Container Stacker 1 software will take 5 minutes.

(Note) This menu is displayed only when the container stacker 2 is connected.

(3) Press “■” button if the Relay Unit - Slave software needs to be upgraded, otherwise press “▶▶” button to skip it. (If the revision on your printer is not as same as current, you need to install this software.)



The upgrading time of Relay Unit - Slave software will take 15 minutes.

(4) Press “■” button if the Relay Unit – Master software needs to be upgraded, otherwise press “▶▶” button to skip it. (If the revision on your printer is not as same as current, you need to install this software.)

The screenshot shows a dialog box titled "Upgrade System" with a subtitle "Relay Unit - Master". The text inside the dialog box reads: "Press ■ to upgrade." and "Press ▶▶ to skip." Below this, there are two labels: "Current revision :" and "New revision :". At the bottom of the dialog box, there are two buttons: a button with the "▶▶" symbol on the left and a button with the "■" symbol on the right.

The upgrading time of Relay Unit - Master software will take 15 minutes.

(5) Press “■” button if the Rear Print Engine – Master software needs to be upgraded, otherwise press “▶▶” button to skip it. (If the revision on your printer is not as same as current, you need to install this software.)

The screenshot shows a dialog box titled "Upgrade System" with a subtitle "Rear Print Engine - Master". The text inside the dialog box reads: "Press ■ to upgrade." and "Press ▶▶ to skip." Below this, there are two labels: "Current revision :" and "New revision :". At the bottom of the dialog box, there are two buttons: a button with the "▶▶" symbol on the left and a button with the "■" symbol on the right.

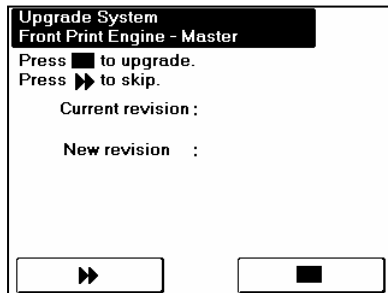
The upgrading time of Rear Print Engine - Master software will take 10 minutes.

(6) Press “■” button if the Rear Print Engine – Slave software needs to be upgraded, otherwise press “▶▶” button to skip it. (If the revision on your printer is not as same as current, you need to install this software.)

The screenshot shows a dialog box titled "Upgrade System" with a subtitle "Rear Print Engine - Slave". The text inside the dialog box reads: "Press ■ to upgrade." and "Press ▶▶ to skip." Below this, there are two labels: "Current revision :" and "New revision :". At the bottom of the dialog box, there are two buttons: a button with the "▶▶" symbol on the left and a button with the "■" symbol on the right.

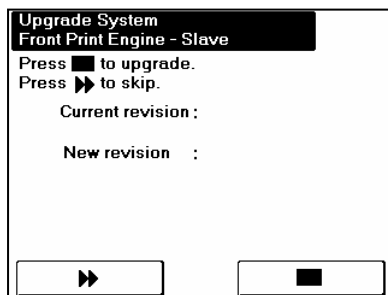
The upgrading time of Rear Print Engine - Slave software will take 10 minutes.

- (7) Press “■” button if the Front Print Engine – Master software needs to be upgraded, otherwise press “▶▶” button to skip it. (If the revision on your printer is not as same as current, you need to install this software.)



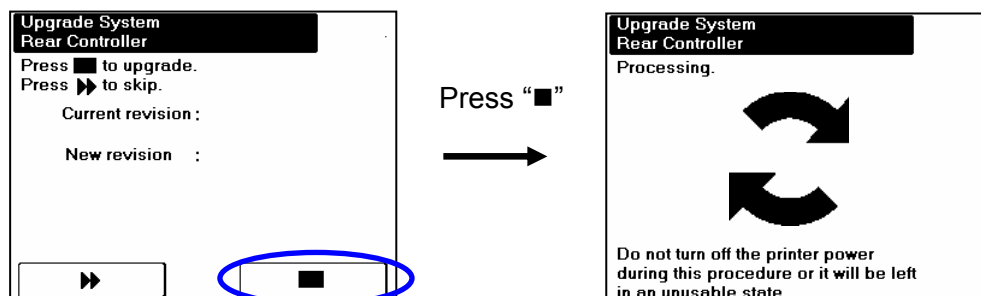
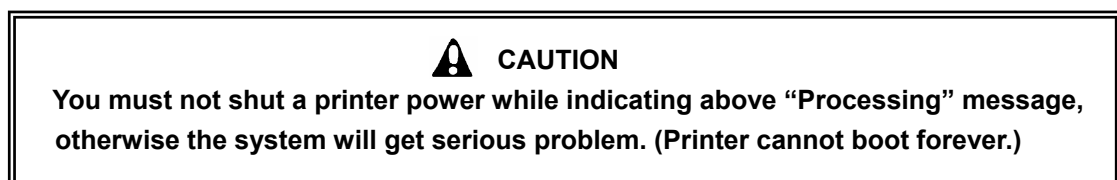
The upgrading time of Front Print Engine – Master software will take 10 minutes.

- (8) Press “■” button if the Front Print Engine – Slave software needs to be upgraded, otherwise press “▶▶” button to skip it. (If the revision on your printer is not as same as current, you need to install this software.)



The upgrading time of Front Print Engine – Slave software will take 10 minutes.

- (9) Press “■” button to install the new Rear Controller software on following menu.

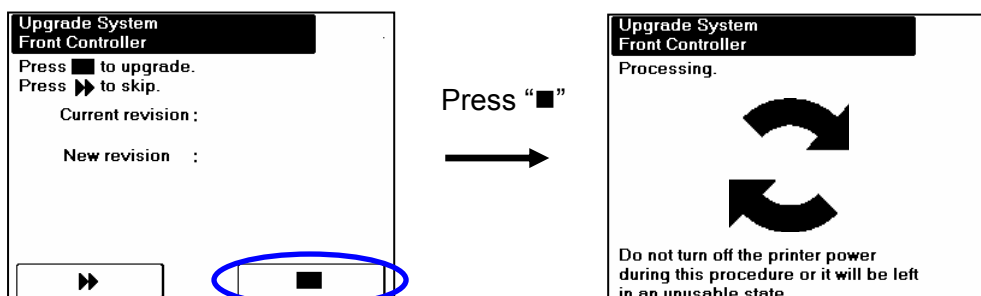


The upgrading time of Rear Controller will take approx. 15 minutes.

(10) Press "■" button to install the new Front Controller software on following menu.

CAUTION

You must not shut a printer power while indicating above "Processing" message, otherwise the system will get serious problem. (Printer cannot boot forever.)

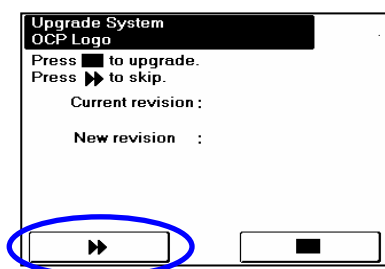


The upgrading time of Front Controller will take approx. 15 minutes.

(11) Press "►►" to skip installation of OCP Logo.

CAUTION

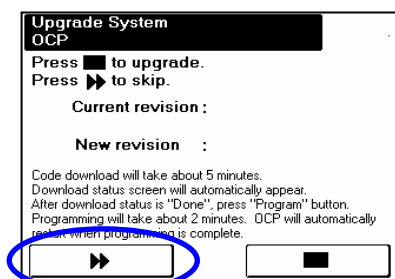
You must not upgrading OCP Logo, otherwise the OCP Firmware will get serious problem.



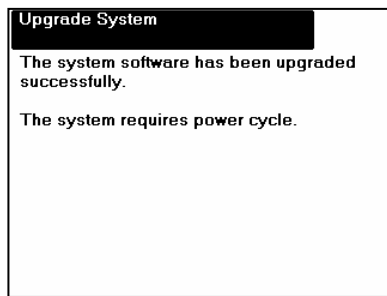
(12) Press "►►" to skip installation of OCP.

CAUTION

You must not upgrade OCP, otherwise the OCP Firmware will get serious problem.



(13) After upgrade of System Software is complete, you need to restart printer in accordance with following OPC message.



1. 5 Confirming the new controller revision

1. Confirm the new revision of front controller and rear controller with following OCP menu.



(Information)/ Printer/ Front/ Controller Revision



(Information)/ Printer/ Rear/ Controller Revision

Or, confirm new revision of it with Status page printed with following menu.



(Reports)/ Status

1. 6 Backup

1. You have to take backup from the menu of the OCP by following menu.

Setup / Service / Password / ■ / ► / Backup/Restore / Front/ Backup

Setup / Service / Password / ■ / ► / Backup/Restore / Rear/ Backup

NOTICE

After pressing “Backup” key and the state of backup data (Ex. Date and Time etc.) is displayed on the right-hand side of an HDD data key, Engine data key, Controller key, then press “All” data key and “■” to execute Backup.

If you do not operate this operation, the automatic backup processing does not work.