Safety Information

When using this machine, the following safety precautions should always be followed.

Safety During Operation

In this manual, the following important symbols are used:

⚠ WARNING

Indicates a potentially hazardous situation which, if instructions are not followed, could result in death or serious injury.

ACAUTION

Indicates a potentially hazardous situation which, if instructions are not followed, may result in minor or moderate injury or damage to property.

⚠ WARNING

- Connect the power cord directly into a wall outlet and never use an extension cord.
- Disconnect the power plug (by pulling the plug, not the cable) if the power cable or plug becomes frayed or otherwise damaged.
- To avoid hazardous electric shock, do not remove any covers or screws other than those specified in this manual.
- Turn off the power and disconnect the power plug (by pulling the plug, not the cable) if any of the following occurs:
- 1) You spill something into the machine.
- 2) You suspect that your machine needs service or repair.
- 3) The external housing of your machine has been damaged.

CAUTION

- Protect the machine from dampness or wet weather, such as rain and snow.
- Unplug the power cord from the wall outlet before you move the machine. While moving the machine, you should take care that the power cord will not be damaged under the machine.
- When you disconnect the plug from the wall outlet, always pull the plug (not the cable).
- Risk of explosion if battery is replaced by an incorrect type.
- Dispose of used batteries according to the instructions.

△ACHTUNG (Deutch)

• Die batterie darf nur durch eine des gleichen Typs ersetzt warden, da anderenfalls Explosionsgefahr besteht.

• Sie die debrauchten Batterien entsprechend den gegebenen Anweisungen.

Power Cord Precautions

To reduce the risk of electric shock or damage to the equipment:

- User the appropriate power cord which was set up by your manufacturer's authorized service provider.
- Do not place objects on AC power cords or cables. Arrange them so that no one may accidentally step on or trip over them.
- Do not pull on a cord or cable. When unplugging from the electrical outlet, grasp the cord by the plug.
- Do not disable the power cord grounding plug. The grounding plug is an important safety feature.
- Plug the power cord into a grounded (earthed) electrical outlet that is easily accessible at all times.

Power Supply

The socket-outlet shall be installed near the product and shall be easily accessible.

Netzanschluss (Deutch)

Die Wandsteckdose sollte in der Nähe Geräts installiert und leicht zugänglich sein.

WARNING

• Use of controls, adjustment or performance of procedures other than those specified in this manual may result in hazardous radiation exposure.

MIMPORTANT SAFETY NOTICES

PREVENTION OF PHYSICAL INJURY

1). Before disassembling or assembling parts of the controller, make sure that the

AC power cord is unplugged.

- 2). The wall outlet should be near the controller and easily accessible.
- 3). Note that some components of the controller are supplied with electrical voltage even if the main power switch is turned off.
- 4). If any operation check has to be made with exterior covers off while the main switch is turned on, keep hands away from electrified or mechanically driven components.

OBSERVANCE OF ELECTRICAL SAFETY STANDARDS

- 1). The controller must be installed and maintained by a customer service representative who has completed the training course on the controller.
- 2). The danger of explosion exists if the battery on the motherboard is incorrectly replaced. Replace the battery only with the equivalent type recommended by the manufacturer. Discard the used motherboard battery in accordance with the manufacturer's instructions and local regulations.

SAFETY AND ECOLOGICAL NOTES FOR DISPOSAL

- 1). Dispose of replaced parts in accordance with local regulations.
- 2). When keeping used lithium batteries in order to dispose of them later, do not put more than 100 batteries per sealed box. Storing larger numbers or not sealing them apart may lead to chemical reactions and heat build-up.

Symbols:

Symbol	What it means
•	Refer to section number/document
F	Screw
	Connector
Ę,	Clamp

Trademarks:

Windows ® is a registered trademark of Microsoft Corporation in the United States and /or other countries.

Fiery ® is a registered trademark of Electronics For Imaging, Incorporated.

PostScript ® is a registered trademark of Adobe Systems, Incorporated.

Ethernet ® is a registered trademark of Xerox Corporation.

Pentium ® is a registered trademark of Intel Corporation.

Other product names used herein are for identification purposes only and may be trademarks of their respective companies. We disclaim any and all rights involved with those marks.

TABLE OF CONTENTS

Safety Information	1
Safety During Operation	1
Power Cord Precautions	2
Power Supply	2
Netzanschluss (Deutch)	2
1. Installation	
Installation Requirements	ç
Environment	9
Machine Level	9
Minimum Space Requirements	10
Power Requirements	10
Installation Flow Chart	12
Machine Installation.	13
Setting Customer Expectations	13
Unpacking the E-3300/5300	13
Front and Back Panels	12
Connecting E-3300/5300 to the Copier	16
Fiery Icon Addition	19
Startup and Initial Setup	22
Verifying the Connection (Local Test Print)	24
Verifying Connection to the Network	26
Installing Optional Features	28
Overview	28
Activate / Deactivate an Optional Feature Using a Dongle	29
2. General Operations For Servicing	
Start-Up, Shut-Down, and Reboot	33
Starting the Copier and the E-3300/5300	33
Shutting Down the Copier and the E-3300/5300	33
Shutting Down the E-3300/5300 Only	32
Restarting the E-3300/5300	32
Rebooting the E-3300/5300	35
Cancelling the Current Print Job.	37
Printing the Configuration Page or Test Sheets	38

Running the E-3300/5300 Setup	39
To Access the Setup Menu	39
To Exit from the Setup Menu	40
Backup / Restore the System Settings	41
To Access Configure Webtools Using a Internet Web Browser	41
To Back up E-3300/5300 Settings	42
To Restore the E-3300/5300 Settings	42
3. Replacement	
General Caution	
Cover Removal	44
Side Cover for the E-3300/5300	44
Unit Removal	45
Video Board	45
Diagnostic LED Board	46
Hard Disk Drive (HDD)	46
Power Supply Unit	48
Fans	48
Motherboard	49
Memory – 1GB DIMM	52
CPU and Cooling Assembly	53
Lithium Battery	55
Gigabit Ethernet Controller	56
Cables Connected to the Front Panel	56
Soft Power Push Button	58
Clearing Procedure for CMOS	59
4. Software Maintenance	
General Notes and Cautions	61
Clearing the Queued Print Jobs in the E-3300/5300	63
Restoring the E-3300/5300 to Factory Defaults	65
System Software Installation Procedure	67
Overview	67
Installing System Software over the Network Port	68
Installing System Software Using a USB Drive	72

Patch Installation Procedure		
5. Troubleshooting		
Overview	79	
LED Diagnostic Codes	80	
Overview	80	
LED Diagnostic Code Tables	81	
Errors and Suggested Actions	86	
Start-Up Problems	86	
System Problems	89	
System Software Installation	91	
Network Problems	95	
Printing Problems	96	
Test the Voltage Supplies	103	
6. Detailed Section Descriptions		
Block Diagram and Functions	105	
Print Data Processing	107	
Flow Chart	107	
7. Specifications		
General Specifications	109	

П

Installation Requirements

Environment

1. Temperature Range:

5°C to 40°C (41°F to 104°F)

2. Humidity Range:

10% to 85% RH

3. Ambient Illumination:

Less than 1500 lux (do not expose to direct sunlight or strong light)

4. Ambient Dust:

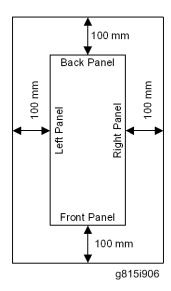
Less than 0.10 mg/m^3

- 5. If the place of installation is air-conditioned or heated, do not place the machine where it will be:
 - 1) Subjected to sudden temperature changes
 - 2) Directly exposed to cool air from an air-conditioner
 - 3) Directly exposed to heat from a heater
- 6. Do not place the machine where it will be exposed to corrosive gases.
- 7. Do not install the machine at any location over 3,048 m (10,000 feet) above sea level.
- 8. Place the controller on a strong and level base.
- 9. Do not place the machine where it may be subjected to strong vibrations.
- 10. Do not connect the machine to a power source shared with another electrical appliance.
- 11. The machine can generate an electromagnetic field, which could interfere with radio or television reception.

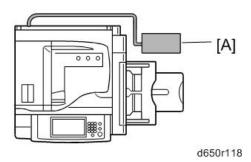
Machine Level

- 1. Front to back: Within $\pm 5^{\circ}$ (0.2") away from level
- 2. Right to left: Within $\pm 5^{\circ}$ (0.2") away from level

Minimum Space Requirements



Place the machine near the power source, providing clearance as shown.



You may place the machine [A] on the right side of the large capacity tray or copier as shown (top view) in the illustration.

Power Requirements

ACAUTION

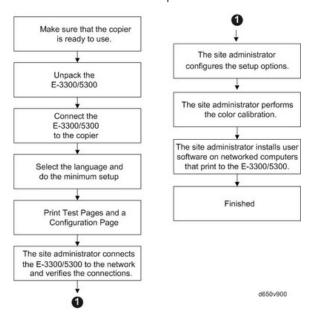
- Insert firmly the plug in the outlet.
- Avoid using an outlet extension plug or cord.
- Ground the machine. Avoid using a 3-pronged adapter in a 2-hole ungrounded outlet.
- Use the supplied AC power cord with this product.

П

- 1. Input voltage level: 100 240V, 50 60Hz; 3A
- 2. Do not put anything on the AC power cord.

Installation Flow Chart

Recommended installation steps are as follows:



Machine Installation

Setting Customer Expectations

Before installation, the customer should be informed of the following:

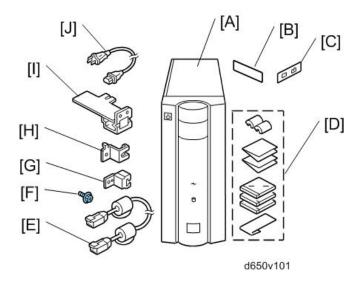
- Some nodes on the network may be unavailable for up to one hour.
- The copier may be unavailable for up to one hour
- The site administrator should be available during the installation for assistance with network connectivity issues.
- Equipment downtime and impact on the network can be minimized if the site administrator installs a network node for the E-3300/5300 and confirms network connection for the E-3300/5300 installation.
- The site administrator should have a networked computer available during the installation. The
 appropriate software should already be installed. Documentation for the networked computer and
 the network operating software should be available.
- The site administrator should install the user software shipped with the E-3300/5300 (user documentation is also included) onto the networked PCs and Mac OS computers that will print to the E-3300/5300.



This guide covers hardware installation and service. It provides general information on connecting
the E-3300/5300 to the customer's network. For network setup and configuration information,
refer the site administrator to the "Configuration and Setup" manual.

Unpacking the E-3300/5300

- 1. Open the box and remove the packing material.
- 2. Remove the contents from the top container. Inspect the contents for visible damage. The top container should include the following items:

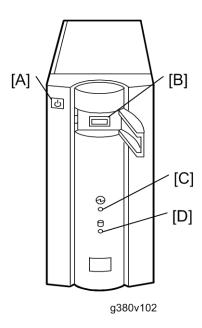


[A]: E-3300/5300	[F]: Screw (M3 x 2)
[B]: Fiery Keytop Seal	[G]: Protection Plate (For E-3300/5300)
[C]: Fierydriven Logo	[H]: Protection Plate (For Copier)
[D]: Media Pack	[I]: Gigabit Ethernet PCB
[E]: Interface Cable	[J]: AC Power Cord

- 3. Give the Media Pack [D] to the site administrator.
- 4. Take the remaining components out of the top container.
- 5. Remove the top container and any packing materials.
- 6. Carefully lift the E-3300/5300 out of the box.

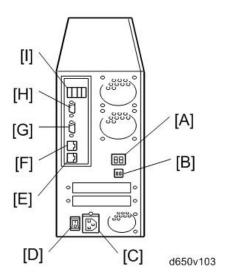
Front and Back Panels

After unpacking the E-3300/5300, familiarize yourself with the front and back panels before you connect the E-3300/5300 to the Copier.



Front Panel

- [A]: Soft Power Push Button
- [B]: Front Panel USB Port
- [C]: Power Indicator
- [D]: HDD Access Indicator



Back Panel

[A]: Diagnostic LEDs (For service use only)
[B]: Service Switches (For service use only)
[C]: Power Connector
[D]: Main Power Switch
[E]: Gigabit Ethernet connector
[F]: LAN Connector (For customer use)
[G]: Not used (Monitor port)
[H]: Not used (Serial Port)
[1]: Back Panel USB Ports

Connecting E-3300/5300 to the Copier

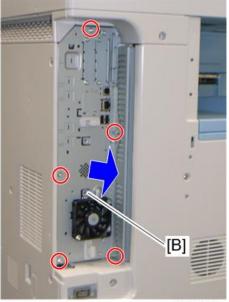
Preparation for Installing the Color Controller E-3300/5300

After you unpack the E-3300/5300, connect the E-3300/5300 to the copier before you connect it to the network. This is to confirm that there are no problems with the hardware and controller itself.

MARNING

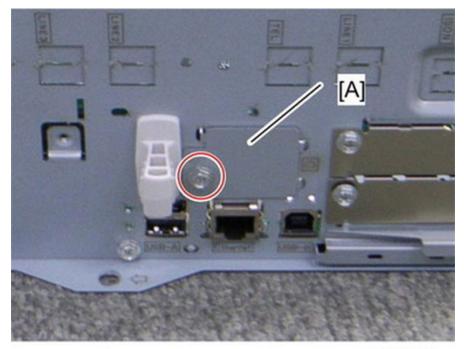
• Turn the controller main power switch and copier main power switch to off and disconnect the power cords before you do these procedures.





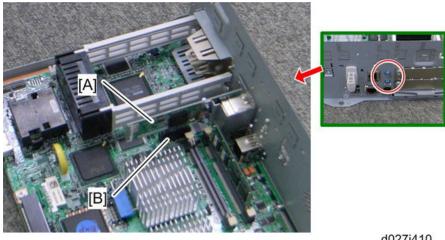
d393i101

- 1. Remove the controller cover [A] (\mathscr{F} x 3).
- 2. Pull out the controller board [B] (x 5.



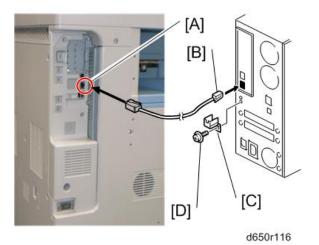
d027i409

3. Remove the slot cover [A] (\mathcal{F} x 1).



d027i410

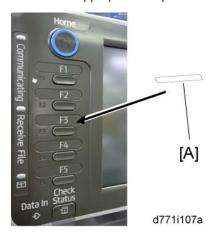
- 4. Attach the Gigabit Ethernet controller [A] into the slot [B] (x 2).
- 5. Reassemble the controller board.
- 6. Reassemble the controller cover.



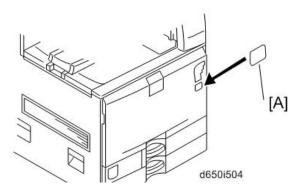
- 7. Connect the power cord of the copier to a power outlet.
- 8. Turn the copier main power switch on, and enter SP mode.
- 9. Change the setting of SP5193-001 from "0" to "1".
- 10. Change the setting of SP5895-001 from "0" to "1".
- 11. Press the On switch (operation switch) on the copier operation panel and wait until the On indicator is off.
- 12. Connect the interface cable [B] to both of the Gigabit Ethernet connectors [A]. Attach this with the prong of the protector plates [C] and [D] (x 1 each).



- Make sure that the Gigabit Ethernet PCB is inserted straight and firmly.
- 13. Connect the appropriate AC power cord to the power connector at the back of the E-3300/5300.



14. Attach the Fiery key top $\mathsf{seal}[A]$ to the operation panel.

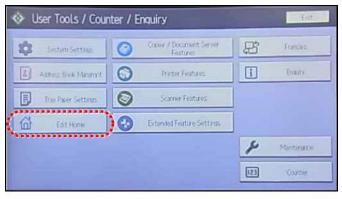


15. Attach the Fiery Decal [A] to the copier front cover.

Fiery Icon Addition

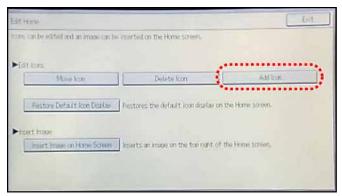
This procedure allows the Fiery icon to appear on the home screen of the operation panel.

1. Press [User Tools].



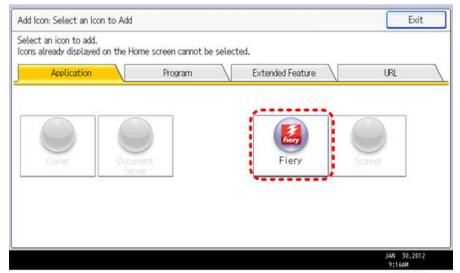
d1440144

2. Press [Edit Home].



d1440145

3. Press [Add Icon].



d6500146

4. Press [Fiery].

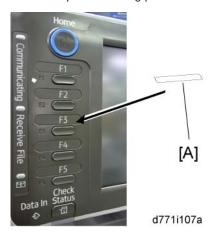


- 5. Press a [Blank] to set a location for the Fiery icon.
- 6. Press [Exit] to end the Fiery icon addition.

Disabling the GW Scanner (Customization)

The GW Scanner feature can still be used when a Fiery controller is installed.

However, if the customer wants to disable the GW Scanner feature (customization request), it can be disabled by the following procedure.



- 1. Change the setting of SP5895-002 from "0" to "1".
- 2. Remove the scanner key top seal [A] on the operation panel of the copier.
- 3. Press [User Tools].
- 4. Press [Edit Home].
- 5. Press [Delete icon].
- 6. Select the Scanner icon.

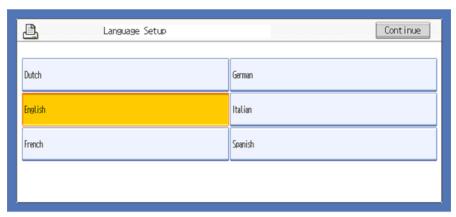
- 7. Press [OK].
- 8. Press the [User Tools/Counter] key.

Startup and Initial Setup

 Make sure that the power cord of the copier is connected to a power outlet and switch on the copier main power.



- The copier must be turned on before you turn the E-3300/5300 on.
- Make sure that all firmware modules for the copier are updated to the newest versions. If they
 are not, update them before you turn on the E-3300/5300. (Copier Service Manual)
- 2. Turn the main power switch on the E-3300/5300 back panel to ON.
- 3. Press and release the soft power push button on the front panel of the E-3300/5300.
- 4. Allow startup to proceed without interruption, while you watch the diagnostic LEDs on the back panel of the E-3300/5300.
- 5. When the diagnostic LEDs remain at '00', go to the copier operation panel and press the **Fierydriven** key. 'Please wait' may be shown on the copier operation panel.
- 6. Within about three minutes, the language selection screen is shown. (If this screen is not shown, then press the **Fierydriven** key again.)
- 7. Select the desired language button, and touch "Continue".
 - English
 - Dutch
 - Spanish
 - Italian
 - German
 - French



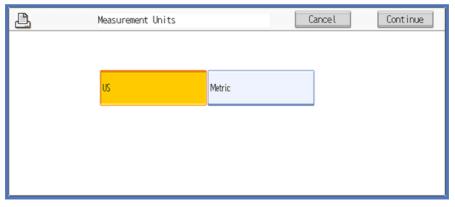
d502i500



- After you have selected a language, you cannot change the language unless you perform
 "Factory Defaults" (p.65 "Restoring the E-3300/5300 to Factory Defaults") or re-install
 the system software.
- The default settings for the E-3300/5300 depend on the language selection as follows:

		Selected Language & Measurement Unit		
		English - US	English - Metric / Dutch / Spanish / Italian / German/ French	
PS Setting	Default Paper Sizes	US	Metric	
PCL	Paper Size	Letter	A4	
Setting	Paper Size System Pages	US	Metric	

If you selected "**English**" at the language selection screen, you are prompted to select the Measurement Units. Select either "**US**" or "**Metric**", and then touch "**Continue**".



d502i501

- 8. The System will reboot. After a few minutes, to confirm that the reboot was successful, press the "Fierydriven" key.
- 9. Now the E-3300/5300 can be used with the default settings (minimum setup).



• The E-3300/5300 setup options should be configured later by the site administrator.

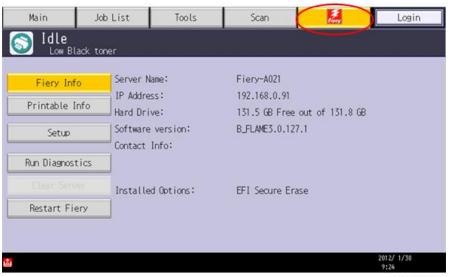
Verifying the Connection (Local Test Print)

After you connect the E-3300/5300 to the copier, print the Test Page and the Configuration Page to verify that the connection between the E-3300/5300 and the copier is good.

- 1. Make sure that the copier is not in use.
- 2. Check the settings in the following table, and make sure that Letter or A4 paper is loaded in at least one of the paper trays of the copier.

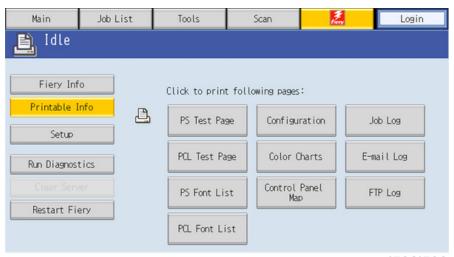
	PS Setting Default Paper Size			Paper Size for n Setting
Setup Option	"US"	"Metric"	"US"	"Metric"
Configuration Page requires	Letter	A4	-	-
PS Test Page requires	Letter	A4	-	-
PCL Test Page requires	-	-	Letter	A4

- 3. On the operation panel of the copier, press the "Fierydriven" key to access the Fiery menu screen.
- 4. Move to the "Fiery" tab.



d650i502

5. Touch "Printable Info".



d502i503

- 6. Print the following pages:
 - Configuration Page
 - PS Test Page
 - PCL Test Page
- 7. Examine the quality of the test pages.
 - All patches should be visible, but it is acceptable if they are very faint in the 5% and 2% ranges.

- Each patch set should show uniform gradation from patch to patch as the shade lightens from 100% to 0%.
- Poor image quality may indicate that the copier needs service. For more information, see the
 documentation provided with the copier.

Verifying Connection to the Network

The E-3300/5300 provides twisted pair connectivity to an Ethernet network.

Cable requirements:

- 10BaseT (Ethernet): Unshielded Twisted Pair (UTP), Category 3 or higher
- 100BaseTX (Fast Ethernet): UTP, Category 5 or higher (4-pair/8-wire, short length)
- 1000BaseT (Gigabit Ethernet): UTP, Category 5e or higher (4-pair/8-wire, short-length)



- If the print engine is 230V, use a shielded network cable.
- 1. Turn off the E-3300/5300 power before connecting the E-3300/5300 to any network device.
- 2. Connect the network cable to the LAN connector on the E-3300/5300.
- 3. Make sure that the copier power is switched on.
- 4. Turn the power switch on the E-3300/5300 back panel to ON.
- 5. Press and release the soft power push button on the front panel of the E-3300/5300.
- Allow startup to proceed without interruption, while you watch the diagnostic LED on the back panel of the E-3300/5300. When the diagnostic LEDs show '00', go to the copier operation panel.
- 7. Press the Fierydriven key on the copier operation panel to access the fiery menu screen.
- 8. Move to the Fiery tab.
- 9. Touch "Setup".



d650i502

- 10. You are asked to enter an administrator password. (The default is "Fiery .1")
- 11. Ask the site administrator to configure the Setup options.



- It is the site administrator's responsibility to configure the correct setup options for the network
 and user environment. The default settings in the setup may be adequate, but they may not be
 optimal for the user's environment. Refer the site administrator to the "Configuration and
 Setup" manual for setup information.
- If more than one E-3300/5300 unit should be installed at the customer site with almost the same system settings, tell the site administrator that the "Backup and Restore" feature will be useful. (This feature is explained in the "Configuration and Setup" manual.)
- 12. After configuring the Setup options, verify the network connection.
- 13. Ask the site administrator to install the printer driver on a client PC, and to make a test print from that PC.

Installing Optional Features

Overview

The system software for the E-3300/5300 contains the following optional features:

- EFI Hot Folders
- EFI Auto Trap
- EFI Spot On
- Fiery Productivity Package
- Ricoh GA Basic Package

Initially, the above three optional functions cannot be used. When the customer purchases these options, a hardware USB dongle which includes a license for the optional feature will be provided.

After the license for the feature is transferred to the E-3300/5300, the dongle will be locked to that particular E-3300/5300 (a unique value will be written to the dongle).

To transfer the license from the dongle to the E-3300/5300, you turn off the E-3300/5300 power, connect the dongle, turn on the E-3300/5300 power, wait for the E-3300/5300 to get to the idle condition, then remove the dongle. The feature is now activated. There is a detailed procedure on the next page.

After this, the same dongle cannot be used on another E-3300/5300, unless the license is first removed from the original E-3300/5300 using that dongle. (You must use the same dongle.)

• To remove the license from the E-3300/5300, do exactly the same procedure that you use when you transfer the license from the dongle to the E-3300/5300. This deactivates the feature.

When the feature is removed from the original E-3300/5300, the unique value will be removed from the dongle. The dongle can now be used on another E-3300/5300.

If a dongle that has already a unique value (had its unit ID locked to an E-3300/5300) is inserted into another E-3300/5300 unit, the dongle will have no effect.

The number of times the license can be removed from the E-3300/5300 is limited as shown in the table below. (Activate 4 times and deactivate 3 times.) When this limit is reached, the dongle can no longer be used to remove the license, so the license will stay on the E-3300/5300. If a dongle is inserted to remove a feature but the limit has been reached, there will be no effect.

E-3300/5300 Power Turned On (or E-3300/5300 Rebooted) with Dongle Connected	Activates/Deactivates the feature on the E-3300/5300	License Transferred to
1 st time	Activates	E-3300/5300
2nd time	Deactivates	Original Dongle

3rd time	Activates	E-3300/5300
4th time	Deactivates	Original Dongle
5th time	Activates	E-3300/5300
6th time and after	No effect	No effect

Activate / Deactivate an Optional Feature Using a Dongle

The optional feature dongle can be used to either activate or deactivate a feature. The operation for both of these procedures is exactly the same, and the successful activation or deactivation can be confirmed by printing the configuration page.

The purpose of the ability to remove the license (deactivation) is to handle cases where the license was accidentally installed on the wrong E-3300/5300 unit.

Immediately after the E-3300/5300 main power is turned on or the E-3300/5300 is rebooted, the E-3300/5300 checks for the presence of the feature activation dongle.

- Print the configuration page of the E-3300/5300. (p.38 "Printing the Configuration Page or Test Sheets")
- 2. With the configuration sheet, check the condition of the optional feature that you will activate/deactivate. (If activated, the option name will appear on the configuration page.)
- 3. Shut down the E-3300/5300 and turn the power of the E-3300/5300 OFF. (▼ p.34 "Shutting Down the E-3300/5300 Only")
- 4. Insert the dongle in one of the USB ports.
- 5. Make sure that the copier main power is already ON.
- 6. Turn the power switch of the E-3300/5300 ON, then press and release the soft power push button on the front of the E-3300/5300.
- 7. Wait for the E-3300/5300 to come to the idle status. During this startup sequence, the optional feature will be activated/deactivated.



- If the E-3300/5300 already has a particular feature activated, and a new dongle for the same feature is inserted, the license will not be affected and the new dongle will remain active.
- If the E-3300/5300 already has a particular feature activated and the matching dongle is inserted, the feature will be removed, and the dongle can then be re-used on another E-3300/5300 unit.
- 8. Remove the dongle from the USB port.

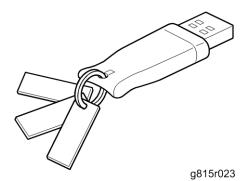
ACAUTION

- Do not forget to remove the dongle at this time.
- If you leave the dongle in the USB port and the E-3300/5300 main power is restarted or the E-3300/5300 is rebooted, then the condition of the optional feature will be reversed. (For example, if you wanted to activate the feature, it is now deactivated.) The only exception is that after you activate a feature for the 4th time, it cannot be deactivated.
- 9. Print a configuration page (p.33 "Shutting Down the Copier and the E-3300/5300").
- 10. On the configuration page, check if the desired optional feature is activated/deactivated. (If activated, the option name will appear on the configuration page.)

If you have activated an optional feature, keep the configuration page. You may need it later for troubleshooting purposes, as shown in the following caution.

ACAUTION

- After an optional feature has been activated, the optional feature license information is kept inside the U601 chip on the video board of the E-3300/5300.
- If the U601 chip becomes defective, the following are needed as evidence in order to get a new U601 chip and optional feature dongle:
- The defective U601 chip
- The configuration page that shows that the defective U601 chip had the optional feature license installed.
- Therefore, always print a configuration page and keep it when you activate a new optional feature on the E-3300/5300.



- 11. Three tags with six labels are attached to each optional feature dongle.
 - a) Optional Feature Name: Printed
 - b) Optional dongle serial number: Printedc) Installed Controller Model Name: Blank
 - d) Installed Controller Serial Number: **Blank**
 - e) 4 check boxes for Activation: Not checked

f) 3 check boxes for Deactivation: Not checked

For the labels c) to f), you can fill in the related information or check the boxes, if you want to keep a record of the status of each dongle.

1

2. General Operations For Servicing

Start-Up, Shut-Down, and Reboot

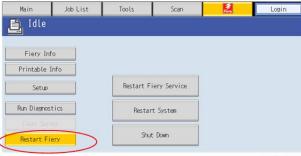
The copier and the E-3300/5300 have separate main power switches. During normal operation, you can leave the E-3300/5300 main power switch in the ON (I) position.

Starting the Copier and the E-3300/5300

- 1. Turn on the main power switch of the copier.
- 2. If the main power switch of the E-3300/5300 is OFF (O), turn on the main power switch of the E-3300/5300.
- Press and release the soft power push button on the front of the E-3300/5300.
 The controller enters into the boot-up sequence.
- 4. After the E-3300/5300 and the copier become idle, press the **Fierydriven** key. The Fiery menu screen will appear on the copier operation panel.

Shutting Down the Copier and the E-3300/5300

- 1. Press the Fierydriven key on the operation panel of the copier. The fiery menu screen appears.
- 2. Move to the **Fiery** tab.
- 3. Touch "Restart Fiery".

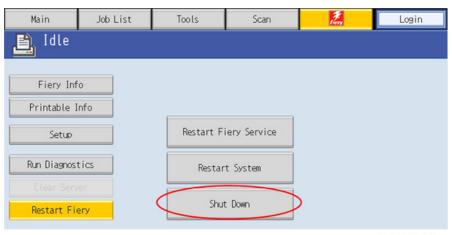


d502i504

4. Touch "Shut Down", then touch "OK".

The E-3300/5300 enters into the shut down sequence.

The diagnostic LEDs on the back panel of the E-3300/5300 will turn off.



d502i504a

- 5. Turn the copier main power switch off.
- 6. If the E-3300/5300 is being taken out of service, turn off the E-3300/5300 using its main power switch. (For example, if someone needs to move the E-3300/5300, disconnect cables, or open the chassis.)

Shutting Down the E-3300/5300 Only

- 1. Press the Fierydriven key on the operation panel of the copier. The Fiery menu screen appears.
- 2. Move to the Fiery tab.
- 3. Touch "Restart Fiery".
- 4. Touch "Shut Down", then touch "OK".

The E-3300/5300 enters into the shut down sequence.

The diagnostic LEDs on the back panel of the E-3300/5300 will turn off.

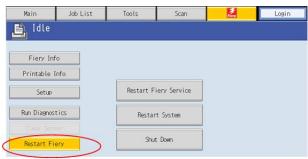
 If the E-3300/5300 is being taken out of service, turn off the E-3300/5300 using its main power switch. (For example, if someone needs to move the E-3300/5300, disconnect cables, or open the chassis.)

Restarting the E-3300/5300

When restarting the E-3300/5300 to recover from a problem, try this procedure first. However, this procedure will only restart the E-3300/5300 application software that is now running on the system OS. To reboot the system OS (for example, after downloading a patch), see the next section "Rebooting the E-3300/5300 (pp.35)".

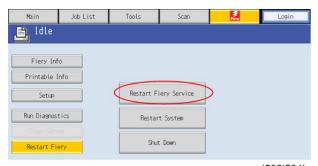
- 1. Make sure that the E-3300/5300 is not in use.
- 2. Press the Fierydriven key on the operation panel of the copier. The Fiery menu screen appears.

- 3. Move to the Fiery tab.
- 4. Touch "Restart Fiery".



d502i504

5. Touch "Restart Fiery Service"



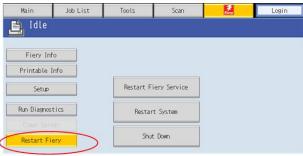
d502i504b

6. Wait until the E-3300/5300 becomes idle.

Rebooting the E-3300/5300

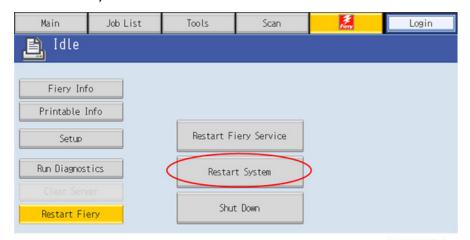
Use this procedure to reboot the system OS (for example, after downloading a patch).

- 1. Make sure that the E-3300/5300 is not in use.
- 2. Press the Fierydriven key on the operation panel of the copier. The Fiery menu screen appears.
- 3. Move to the Fiery tab.
- 4. Touch "Restart Fiery".



d502i504

5. Touch "Restart System"



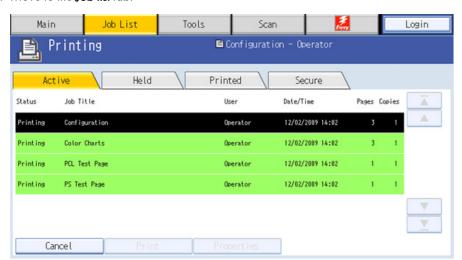
d502i504c

6. Wait until the E-3300/5300 becomes idle.

Cancelling the Current Print Job

When you want to cancel the current print job, do the following:

- 1. Press the Fierydriven key on the operation panel of the copier to access the Fiery menu screen.
- 2. Move to the Job list tab.

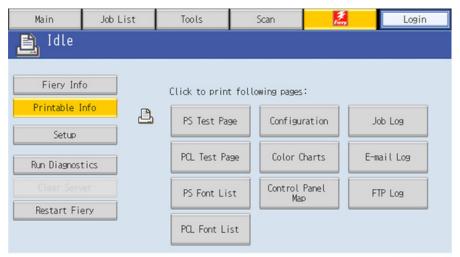


d502i505

- 3. From the Job List, touch the job that you want to cancel.
- 4. Touch "Cancel".

Printing the Configuration Page or Test Sheets

- 1. Make sure that the E-3300/5300 is not in use.
- 2. Press the Fierydriven key on the operation panel of the copier to access the Fiery menu screen.
- 3. Move to the Fiery tab.
- 4. Touch "Printable Info", then touch the desired key.
 - Configuration Page
 - PS Test Page
 - PCL Test Page



d502i503

Running the E-3300/5300 Setup

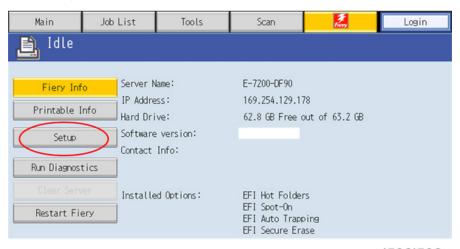
The following procedures show how to access the Setup menu from the Fiery menu screen.



- When the network settings (protocol, IP Address, etc.) are already configured and the "Enable Web Service" option is set to ON, you can also configure the E-3300/5300 setup from "Configure Webtools". To do this, use a web browser on a personal computer which is connected to the network. For more detailed instructions, please refer to the "Configuration and Setup" manual.
- When you try to get access to the Setup menu, you are always asked to input an administrator
 password. (The default password is "Fiery.1") Ask the site administrator to input the administrator
 password when you must get access to the Setup menu.

To Access the Setup Menu

- 1. Make sure that the E-3300/5300 is not in use.
- 2. Press the Fierydriven key on the operation panel of the copier to access the Fiery menu screen.
- 3. Move to the Fiery tab.
- 4. Touch "Setup".



d502i502a

- 5. You may be asked to enter an administrator password. (Ask the site administrator to enter the password. The default password is "Fiery.1")
- The main setup screen appears.
 For the details of each setup option value, refer to the "Configuration and Setup" manual.

To Exit from the Setup Menu

- At the main setup screen, touch "Exit Setup".
 The Fiery menu screen will disappear.
- 2. When you are prompted "System Requires to Reboot for Changes to Apply", touch "Reboot now".

Backup / Restore the System Settings

The administrator at the customer site can back up the current E-3300/5300 configuration and restore it later.

This feature is also useful when...

- 1. The customer purchases more than one unit of E-3300/5300 and wants to configure all of them with almost the same system configuration.
- 2. The E-3300/5300 needs to be re-configured after system software installation.

The following items can be backed up to a configuration settings file:

- All system settings with the exclusion of Date / Time.
- Imposition templates saved in the default directory for these files on the E-3300/5300
- Address books
- Virtual Printer settings
- Users and Groups information (login names and passwords)
- Custom spot colors



The configuration settings file is saved on the computer from which you access Configure
Webtools. Make sure that you do not save the configuration settings file to the E-3300/5300
itself. Otherwise, when you reinstall system software, the configuration settings file residing on the
E-3300/5300 is deleted.

To Access Configure Webtools Using a Internet Web Browser



- The network settings (protocol, IP Address, etc) should be already configured and the "Enable Web Service" option should be set to ON (default), in order to access the Configure Webtools.
- 1. Start your internet web browser and type the IP address of the E-3300/5300.
- 2. Click the Configure tab on the E-3300/5300 home page.
- 3. Click "Launch Configure".
- 4. Log on as an Administrator with the appropriate password.

(The default password is "Fiery.1".)



d502i508



 The same menu can also be accessed from inside the Command WorkStation, Windows Edition (Server > SetUp > Server > Backup / Restore).

To Back up E-3300/5300 Settings

- 1. Choose Configure > Server > Backup / Restore.
- 2. Click Backup Fiery Settings.
- 3. In the dialog box that appears, accept the default file name or type a new name for the backup file.
- 4. Click Save.



• The saved configuration settings file can only be restored to the same model (E-3300/5300).

To Restore the E-3300/5300 Settings

- 1. Choose Configure > Server > Backup / Restore.
- 2. Click Backup Fiery Settings.
- 3. In the dialog box that appears, type the name of the configuration settings file or select it from the list.
- 4. Click Open.



 The server name and static IP address are restored therefore if the restore operation is used on more than one E-3300/5300 you must reconfigure them to be unique.

3. Replacement

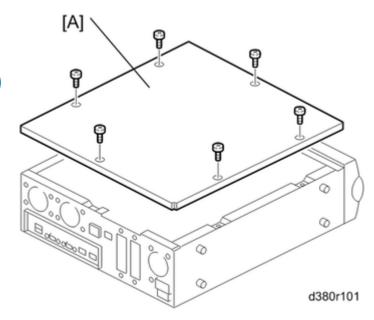
General Caution

MARNING

• Turn off the power and unplug the E-3300/5300 before attempting any of the procedures in this section.

Before accessing internal components, position the E-3300/5300 so that it is resting on its right-hand side on a flat, anti-static surface.

Side Cover for the E-3300/5300

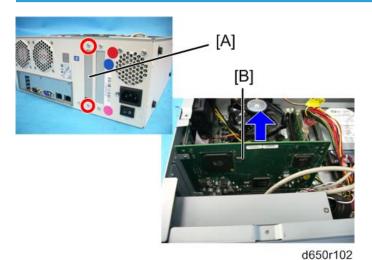


[A]: Side cover (x 6)

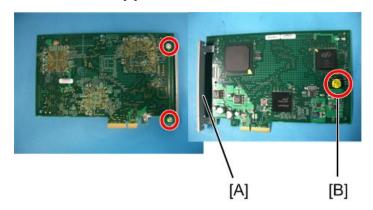
3

Unit Removal

Video Board



- 1. Remove the Video board with bracket [A](\mathscr{F} x 2)
- 2. Pull the Video board [B].



d650r103

- 3. Remove the Bracket [A] (Fx 2)
- 4. Remove the Keychip [B] (U601)

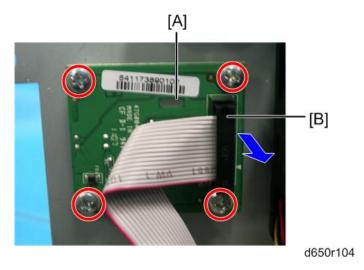


• The video board that you use as a spare part does not include the Keychip (U601).

• When you replace the video board, do not forget to move the Keychip (U601) from the old board to the new board.

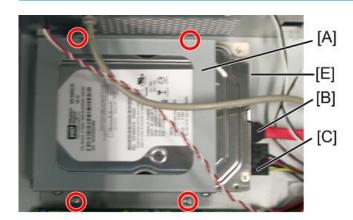
Keychip (U601): Contains option upgrade information and licensing information for the E-3300/5300.

Diagnostic LED Board



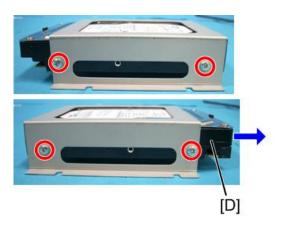
- 1. Remove the 16-pin DIAG cable [B] (x 1)
- 2. Remove the DIAG board [A] (F x 4)

Hard Disk Drive (HDD)



d650r105

3

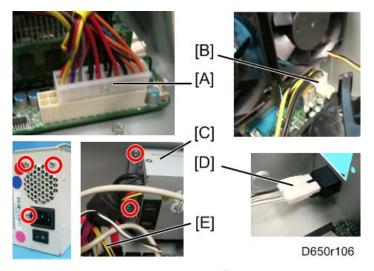


d650r105a

- 1. Remove the HDD with bracket [A] (F x 4)
- 2. Remove the SATA data cable [B] (🗐 x 1)
- 3. Remove the SATA power cable [C](V x 1)
- 4. Remove the HDD [D] (F x 4)
- 5. Legacy power connector [E] (DO NOT USE)

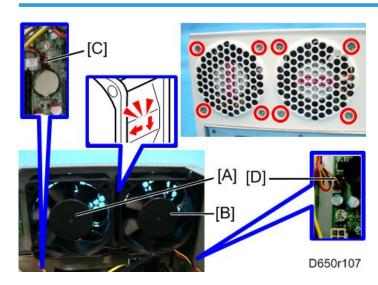
U Note

- System software is not included on replacement HDDs. After installing a new HDD, be sure to
 install system software (p.67 "System Software Installation Procedure").
- If you notice that the E-3300/5300 takes longer than usual to start up after installing a new HDD and system software, clear the CMOS. For details, see "Clearing Procedure for CMOS" shown below (p.59 "Clearing Procedure for CMOS").



- 1. Remove the Power supply cable (x 4).
 - HDD power connector [E].
 - 4-pin power connector [B] for the PW2 socket on the motherboard.
 - 20-pin power connector [A] for the PW1 socket on the motherboard.
 - Main power switch [D].
- 2. Remove the Power supply unit [C] (F x 5)

Fans



Video board (p.45)

- 1. Remove the Cables (x 2):
 - [D] from FAN1
 - [C] from FAN3
- 2. Remove the Fan [A] (F x 4)
- 3. Remove the Fan [B] (x 4)



- Connect the [A-2] cable (Short) to FAN2 on the motherboard.
- Connect the [A-3] cable (Long) to FAN3 on the motherboard.

Motherboard



- 1. Remove the Video board (p.45)
- 2. Remove the Fan case (p.48 "Fans")
- 3. Remove the Cables (🕮 x 8):

4-pin power connector from PW2 [A].

20-pin power connector from PW1 [B].

USB cable from USB3 [C].

Fan cable from FAN1 [D].

Front panel cable from J25 [E].

PIN1 & 3	HDD LED
PIN2 & 4	Power LED

PIN6 & 8 Soft Switch

DIAG cable from J26 [F].

Fan cable from FAN2 [G].

SATA data cable from SATAO [J].

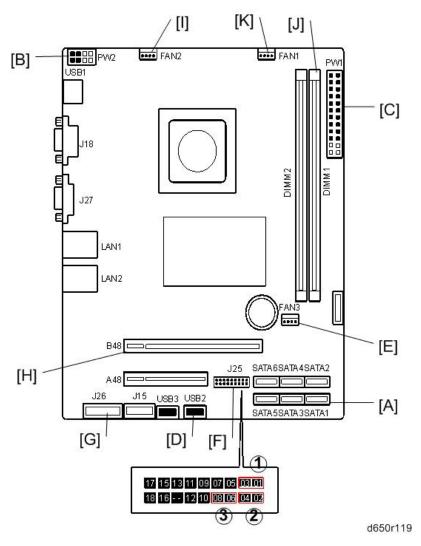
- 4. Remove the Screws (F x 5)
- 5. Remove the Memory (p.52 "Memory − 1GB DIMM")
- 6. Remove the CPU Cooling Assembly (p.53 "CPU and Cooling Assembly")
- 7. Remove the CPU (p.53 "CPU and Cooling Assembly")



 When you replace the motherboard, remove the CPU and memory and attach them to the new motherboard (** p.53 "CPU and Cooling Assembly").

For reassembling:

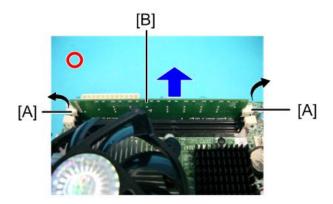
- Make sure of where to connect the connectors for each cable.
- Make sure that all connectors are inserted firmly in the sockets. Also, do not put the connectors in the sockets the wrong way around.



	Connector	Location
[A]	SATA data cable	SATA1
[B]	4-pin power	PW2
[C]	20-pin power	PW1
[D]	Front panel USB port	USB3
[E]	Bottom chassis fan	FAN1

			1	For HDD LED
[F]	Soft power button cable and activity LED cables	J25	2	For Power LED
			3	For Soft Switch
[G]	DIAG cable		J26	
[H]	Video interface board	PCIE2		
[I] Top chassis fan FAN2		FAN2		
[J]	Memory	DIMM2		
[K]	[K] CPU fan FAN1		FAN1	

Memory - 1GB DIMM



d650r110

- 1. Push outward on the levers [A] on each side of the DIMM.
- 2. Slide the DIMM [B] straight out of the socket.



- Always attach the DIMM [B] to the DIMM2 socket.
- Gently slide the DIMM straight down into the socket and press so that the levers lock the DIMM into place. Make sure that the levers close securely around the ends of the DIMM.
- DIMMs fit in the socket only one way.
- If you installed a new or additional DIMM, clear the CMOS. Clear the CMOS after installing a
 new or additional DIMM to ensure compatibility between the new component and previous
 settings stored in the BIOS (p.59 "Clearing Procedure for CMOS").

CPU and Cooling Assembly

Overview

You can replace the following parts.

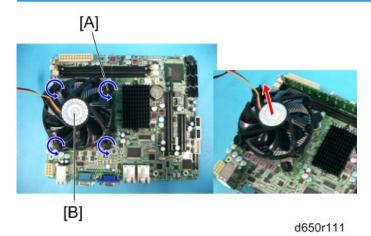
- Cooling Assembly only
- CPU and Cooling Assembly (as a set). If you replace the CPU, you must replace the cooling assembly also, as a set.

The cooling assembly consists of a fan with heat sink and a clip assembly.



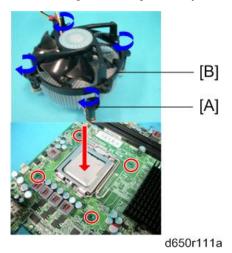
- Be careful not to damage the motherboard, the CPU, or the CPU socket when you replace the
 cooling assembly. Remove the memory before you remove the cooling assembly.
- When you want to replace the CPU, replace the CPU and the cooling assembly as a set. This is
 very important, because the thermal pad that is attached to a new heat sink will make a good
 contact between the CPU and the heat sink when heated. If you attach a used cooling assembly to
 a new CPU by mistake, the heat sink will not contact the CPU properly, and this will cause the CPU
 to overheat.
- If you installed a new CPU, clear the CMOS. Clear the CMOS after installing a new CPU to ensure
 compatibility between the new component and previous settings stored in the BIOS (**p.59
 "Clearing Procedure for CMOS").

Cooling assembly removal procedure



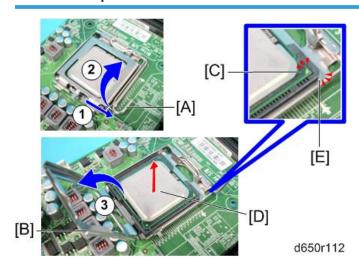
- 1. Remove the cooling assembly cable from the motherboard (x 1).
- 2. Turn counterclockwise to lock pin 4, to unlock [A].
- 3. Remove the cooling assembly [B] ($\mathscr{F} \times 4$).

Reassembling the Cooling Assembly



- 1. Plug the holes in the motherboard of the 4 locking pins [A].
- 2. Hold down and rotate clockwise, install a cooling assembly [B].

CPU removal procedure



- 1. Release the loadlever [A].
- 2. Open the loadplate [B].
- 3. Grasp the CPU by its edges and gently lift it from the socket.

For Re-attaching:

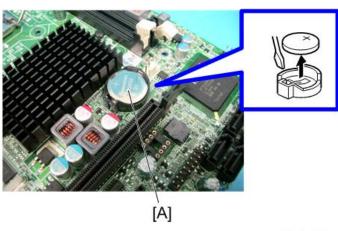
• Check the location of the arrow [C] on the CPU [D] when you insert the CPU into the socket [E]. (See the illustration above.)

- Be careful not to bend the pins when you insert the CPU into the socket.
- Set the CPU in the socket completely and without forcing it.

Lithium Battery



- There is danger of explosion if the battery is replaced with the incorrect type. Replace with only with the same lithium battery supplied as a spare part.
- Discard the used motherboard battery in accordance with the manufacturer's instructions and local regulations.

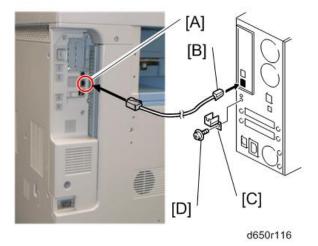


d650r113

For Re-assembling:

- You need to re-configure the system date and time.
- To configure the system date and time, enter the 'Server setup' menu from the Setup main menu.
 p.39 "To Access the Setup Menu")

Gigabit Ethernet Controller

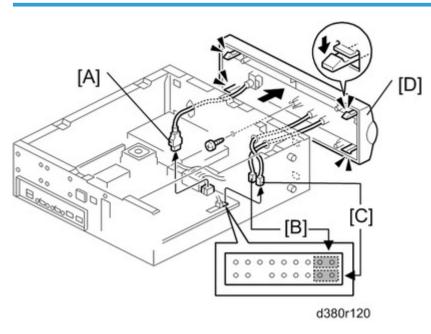


1. Connect the interface cable [B] to both of the Gigabit Ethernet connectors [A]. Attach this with the prong of the protector plates [C] and [D] (x 1)

For Re-assembling:

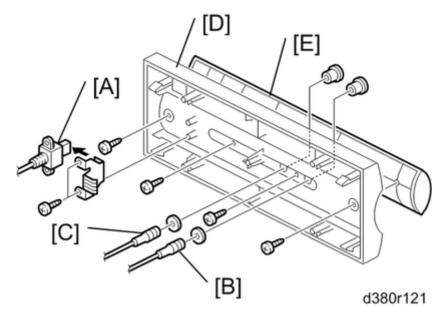
• Make sure that the Gigabit Ethernet controller is inserted straight.

Cables Connected to the Front Panel



1. Side cover

- 2. Video board (p.45)
- 3. Front panel USB port cable [A] from USB3
- 4. HDD LED cable [B] from J25
- 5. Power LED cable [C] from J25
- 6. Front panel [D] (x 1)

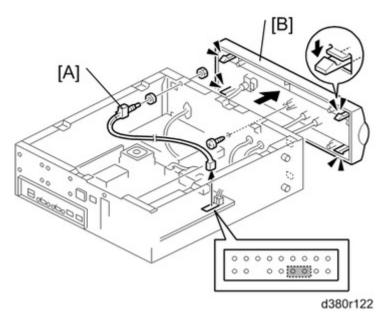


- 7. Front panel USB port cable [A] from front panel (F x 2).
- 8. HDD LED cable [B] from front panel.
- 9. Power LED cable [C] from front panel.
- 10. Center panel [E] from the front panel [D] (*x 4)

For Re-assembling:

- Make sure of where to connect the connectors for each cable.
- Make sure that all connectors are inserted firmly in the sockets. Also, do not put the connectors in the sockets the wrong way around.

Soft Power Push Button



- 1. Side cover
- 2. Video board (p.45)
- 3. Soft Power Push Button cable from J25
- 4. Front panel [B] (x 1)
- 5. Soft power button cable from the front panel.

For Re-assembling:

• Make sure of where to connect the connectors for each cable.

Clearing Procedure for CMOS

- 1. Make sure that the external power cable is removed from the back panel of the E-3300/5300.
- 2. Remove the battery (p.55 "Lithium Battery").
- 3. Wait two minutes to allow the motherboard electrical components to fully discharge.
- 4. Reinstall the battery (p.55 "Lithium Battery").
- 5. After reassembling the E-3300/5300, configure the time and date in Setup. For more information, see Configuration and Setup on the User Documentation CD.

4. Software Maintenance

General Notes and Cautions

You may use one of the following when you have a problem with the system software or the HDD.

- Clear Server: Deletes all queued print jobs from the E-3300/5300
- Factory Defaults: Restores the E-3300/5300 to the factory defaults
- System Software Reinstallation

The following table shows whether the current data on the E-3300/5300 will remain or be deleted when each of these is used.

	"Clear Server"	"Factory Defaults"	System Software Reinstallation / Upgrade
Job Log	Not Deleted	Deleted	Deleted
Queued Jobs	Deleted	Deleted	Deleted
Scanned Jobs	Deleted	Deleted	Deleted
MailBox	Deleted	Deleted	Deleted
Archived Jobs	Deleted	Deleted	Deleted
FreeForm masters	Deleted	Deleted	Deleted
Resident Fonts	Not Deleted	Not Deleted	Deleted
Downloaded Fonts	Not Deleted	Deleted	Deleted
Language Selection	Not Deleted	Deleted	Deleted
Setup Options	Not Deleted	Deleted	Deleted
Patches	Not Deleted	Not Deleted	Deleted
Administrator Password	Not Deleted	Not Deleted	Deleted
Option Activation	Not Deleted	Not Deleted	Not Deleted



 In "System Software Reinstallation/Upgrade", "Upgrade" refers to replacing the software with a new version. It does not refer to the application of patches. When you apply a patch, data is not deleted.

Before you use any of the above features, make sure you inform the site administrator that the indicated data and settings will be deleted and should be re-installed after the feature has been used.

Job Log:

The list of jobs in the Job Log and all jobs in the queues are deleted. The site administrator can use E-3300/5300 Spooler to save a current list of jobs from the Job Log (the actual jobs are not saved, only a list of them).

Queued Jobs:

All queued print jobs (in the Print, Hold, and Printed queues) will be deleted.

Archived Jobs and Free Form masters:

Archived jobs on the E-3300/5300 HDD and FreeForm masters are deleted. The lists of archived jobs and FreeForm masters are deleted as well.

Fonts:

All fonts on the HDD are deleted when you reinstall the system software. Resident fonts are reinstalled when you reinstall the system software. Any customer-supplied fonts will need to be reinstalled by the site administrator using E-3300/5300 Downloader.

Administrator Password:

The administrator password will be deleted when system software is re-installed. (The administrator password will return to "Fiery.1" after the system software is re-installed.)

Configuration:

Make sure to print a configuration page before reinstalling the system software. The current Setup configuration will be lost when you reinstall the system software.

Compatibility:

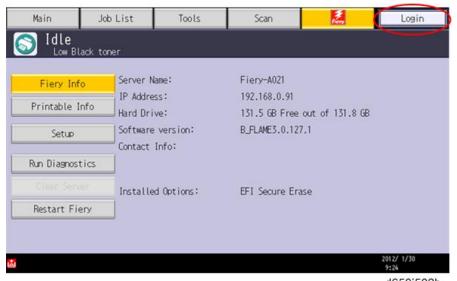
When you upgrade the system software, make sure the latest user software is installed onto all computers that print to the E-3300/5300. Using incompatible versions of the system and user software can result in system problems.

Clearing the Queued Print Jobs in the E-3300/5300

The "Clear Server" command allows you to clear all queued print jobs from the E-3300/5300; which means jobs from the E-3300/5300 Print, Hold, and Printed queues. Clear Server also clears all jobs archived on the E-3300/5300 hard disk, the index of archived jobs, and finally, all E-3300/5300 FreeForm masters and the index of E-3300/5300 FreeForm masters.

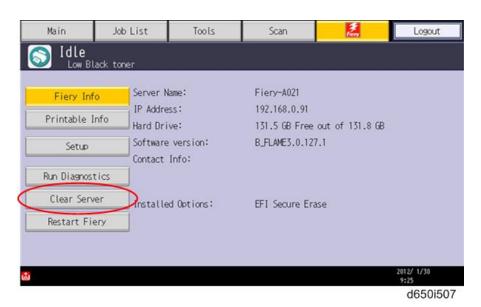


- Before using Clear Server, inform the site administrator that data on the E-3300/5300 hard disk will be deleted.
- 1. Make sure the E-3300/5300 is not in use.
- 2. Press the Fierydriven key on the operation panel of the copier to access the Fiery menu screen. (***p.39 "Running the E-3300/5300 Setup")
- 3. Move to the **Login** tab.



d650i502b

- 4. You are asked to enter an administrator password. (The default password is "Fiery.1".)
- 5. The main setup screen appears.
- 6. Move to Fiery tab.
- 7. Touch "Clear Server".



- 8. When you are prompted "Clear all jobs from all queues?", touch "OK"
- 9. The Fiery menu screen will disappear and data will be cleared before the system restarts.
- 10. Press the Fierydriven key and check if the E-3300/5300 becomes idle.

Restoring the E-3300/5300 to Factory Defaults

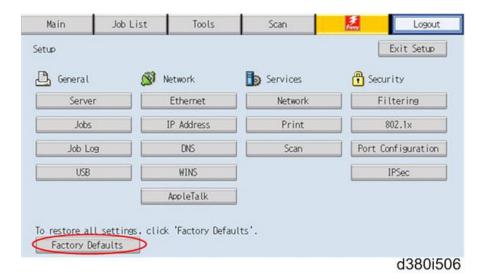
To restore the default settings of E-3300/5300 and delete all the data stored on the HDD, use the "Factory Defaults" feature. Also use "Factory Defaults" when you want to change the language selection.



- Before using "Factory Defaults", inform the site administrator that all data (including the
 downloaded fonts) stored on the HDD and setup options will be deleted.
- Performing "Factory Defaults" will not delete the current administrator password, which was set for
 the E-3300/5300 (the initial password is "Fiery.1"). Before performing "Factory Defaults", check
 if the site administrator can input the current administrator password after the system software is
 restored.
- If a unique administrator password is already set for the E-3300/5300, but the site administrator does not remember the password, you must re-install the system software from the DVD (or from a prepared the USB drive).



- There is a similar feature called "Restore Fiery Default Settings" in the Webtools.
- This feature will return the settings to the defaults (factory settings) but will not clear the language selection or data in the HDD, and does not require the E-3300/5300 to reboot. For details, refer to the "Configuration and Setup" manual.
- 1. Make sure the E-3300/5300 is not in use.
- 2. Print a configuration page (you may refer to this configuration page when you re-enter the setup options). (p.38 "Printing the Configuration Page or Test Sheets")
- 3. Access the setup menu. (p.39 "Running the E-3300/5300 Setup")
- 4. Touch "Factory Defaults".



- 5. When you are prompted "Change all settings (including network) back to Factory Defaults and Shutdown?", touch "Continue".
- 6. Wait for the diagnostic LEDs on the E-3300/5300 to turn off.
- Press and release the soft power push button on the front panel of the E-3300/5300. The E-3300/5300 takes less than three minutes to reach the idle condition.
- 8. Go to the copier and press the Fierydriven key.
- The language selection screen will appear. Start to configure the E-3300/5300.
 (For details, go to step 25 of the system software installation procedure. p.67 "System Software Installation Procedure")

System Software Installation Procedure

Overview

System software should be installed in the following cases:

- You replace the HDD with a new one (on which the System Software is not installed)
- You update to a more recent version of the system software (this is not necessary when you apply a patch; it is necessary when you install a major version change)
- You have trouble with the system software (e.g. software corruption) and the problem cannot be solved by performing "Factory Defaults".
- The site administrator forgets the administrator password for the E-3300/5300.

The system software is provided as follows:

System Software DVD:

System software and an installation program for the network port method are included.

• USB Prep Tool CD:

Windows application program for copying the system software DVD to the USB drive, and at the same time making the USB drive bootable.

There are two ways to install/reinstall system software on the E-3300/5300:

Installing system software over the network port:

Connect a PC to the E-3300/5300 directly, or through a hub using two network cables. Install the system software from the System Software DVD.

• Installing system software by booting the E-3300/5300 from a USB drive:

Use the USB Prep Tool CD to install the USB Prep Tool Windows application on a PC. Then use the system software DVD, a USB drive, and the USB Prep Tool Windows application on the PC to make a bootable USB drive that includes E-3300/5300 system software. At the customer site, connect the USB port and turn the power ON. System installation will be done automatically.



- Before you start system installation, give the site administrator the opportunity to print the Job Log and to save any custom simulations.
- Also, print the Configuration Page and Font Lists.
- Backup and Restore feature are sometimes useful in order to reduce the time to re-configure
 the E-3300/5300 system settings after the system installation (p.41 "Backup / Restore
 the System Settings").

The system software DVD contains the system software and E-3300/5300 System Software Installer. To install system software using the LAN port on the E-3300/5300, you need:

Either:

Two Ethernet cables and an isolated hub/switch

Cables must be 4-pair/8-wire, short-length Cat 5 (for 100BaseT) or Cat 5e (for 1000BaseT)

Or:

- For 100BaseTX: One Category 5 or higher Ethernet cross-over cable (4-pin/8-wire, short-length)
- For 1000BaseT: One Category 5e or higher Ethernet cross-over cable (4-pin/8-wire, short-length)

A Windows XP/2000/Vista computer ("PC") with:

- CD/DVD drive, built in or attached
- Support for 100BaseTX or 1000BaseT



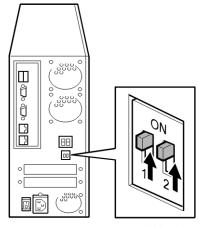
- This procedure describes using one cross-over cable. Instead of using a cross-over cable, you may
 use two Ethernet cables and an isolated hub/switch. (Do not connect any other devices to the hub/
 switch. Do not put the hub/switch on the LAN. Do not use the hub's optical port or uplink switch.)
- If the print engine is 230V, use shielded network cables.
- 1. Print the Configuration Page (p.38 "Printing the Configuration Page or Test Sheets").
- 2. If possible, back up the system settings to a configuration settings file with the Backup feature (p.41 "Backup / Restore the System Settings").
- 3. Perform the shut down procedure from the copier operation panel (p.34 "Shutting Down the E-3300/5300 Only").
- 4. When the E-3300/5300 power is down (that is when the diagnostic LEDs are off), turn the main power switch of the E-3300/5300 to OFF.
- 5. Disconnect all cables from the E-3300/5300 connector panel.
- 6. Connect the Ethernet cross-over cable to the LAN port and to the Windows XP/2000/Vista PC.
- 7. Turn on the PC's power and do the following procedure:
 - Close all software applications.
 - Stop all File Transfer Protocol (FTP) and Trivial FileTransfer Protocol (TFTP) services.
 - Disable all anti-virus and anti-spyware programs.
 - Make sure that the PC is configured to obtain its IP address automatically (DHCP).
 - Remove any network cables between the PC and the customer network.
 - Disable all wireless network connections.
 - Turn off the Windows Firewall.

4

- · Disable all power-save and hibernation settings.
- 8. Insert the system software DVD into the PC's CD/DVD drive.
- Navigate to the CD/DVD drive and click the icon for the Installer.exe file, if it does not start automatically.
- 10. Click Next at the Welcome screen. Read the Software License Agreement and click the "I Agree" checkbox if you wish to continue the installation process, then click Next.
- 11. At the Connection Type screen, make sure Ethernet is selected. Click Next to advance to the Confirmation screen.
- 12. Set the E-3300/5300 service switches to the service mode position: ON.



Ignore the steps shown on the PC screen because they may be confusing at this stage of the
procedure. Please continue to follow the steps of this procedure.

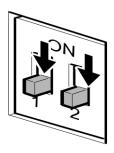


d380r114

- 13. Turn the main power switch of the E-3300/5300 to ON, then press and release the soft power push button on the front of the E-3300/5300.
- 14. Wait 10 seconds, then click Next on the PC screen.
- 15. At the Installation screen, click Next to start the installation. Wait while the files are copied and installed.
 - The progress is slow at first.
 For most computers, you must wait approximately 30 min. Do not click Cancel.
 - If you do click Cancel: Click Finish then turn the main power switch of the E-3300/5300 to OFF. Wait 10 seconds, and then repeat this procedure from the beginning. If the installation terminates abnormally, you may need to reboot the PC also.



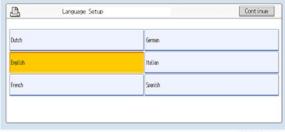
- If Windows detects more than one NIC card in the PC, Windows will prompt you to choose
 the NIC card that is connected to the E-3300/5300. The NIC card to choose may be a card
 that is associated with IP Address 0.0.0.0.
- Click Exit when the screen shows that the installation is successful. Remove the System Software DVD from the PC.
- 17. Turn the main power switch of the E-3300/5300 to OFF.
- 18. Set the service switches in the normal position (not ON).



g815r021

- 19. Disconnect the cross-over cable from the LAN port and the Windows XP/2000/Vista PC.
- 20. Reconnect all cables that you removed earlier from the E-3300/5300 panel.
- 21. Turn on the main power switch of the copier.
- 22. Turn on the main power switch of the E-3300/5300.
- 23. Allow startup to proceed without interruption while you watch the diagnostic LEDs on the back panel of the E-3300/5300.
- 24. When the diagnostic LEDs show '00', go to the copier operation panel and press the **Fierydriven** key. 'Please wait' may be shown on the copier operation panel.
- 25. The language selection screen is shown. (If this screen is not shown, then press the **Fierydriven** key again.)

Select the desired language, and touch "Continue".



d380i500

English

- Dutch
- Spanish
- Italian
- German
- French



- After you have selected a language, you cannot change the language unless you perform "Factory Defaults" (p.65 "Restoring the E-3300/5300 to Factory Defaults") or re-install the system software.
- The default settings for the E-3300/5300 depend on the language selection as follows:

		Selected Language & Measurement Unit		
		English - US	English - Metric / Dutch / Spanish / Italian / German/ French	
PS Setting	Default Paper Sizes	US	Metric	
PCL	Paper Size	Letter	A4	
Setting	Paper Size System Pages	US	Metric	

If you selected "English" at the language selection screen, you are prompted to select the Measurement Unit. Select either "US" or "Metric", and then touch "Continue".



- 26. Wait for a short time, then press the Fierydriven key on the operation panel. Repeat if necessary until "Please wait" no longer appears.
- 27. Press the Fiery tab to access Setup, and press Setup at the Fiery menu screen.
- 28. You are asked to enter the administrator password. (The default password is "Fiery.1".)
- 29. Input the customer's settings from the Configuration pages that you printed earlier. If a backup exists of configuration settings file, restore it after the network configuration is completed. (*** p.41 "Backup / Restore the System Settings")



- Ask the site administrator for the other settings that are not on the Configuration pages, You
 must reboot the E-3300/5300 to apply the settings. For more information, see the
 "Configuration and Setup" manual.
- 30. If you have been given any patches (system update files) for the version of system software you have just installed, install the patches now. See the instructions provided with each patch.

Installing System Software Using a USB Drive

Preparation

To prepare a USB drive, which is bootable and includes system software, the following items should be prepared:

- E-3300/5300 System Software DVD
- USB Prep Tool CD
- USB drive, more than 5 GB capacity
 Example: Seagate USB 2.0 Pocket Hard Drive, model number ST650211
- Windows XP SP2/Vista computer ("PC") with:
 - CD/DVD drive, built-in or attached
 - USB port (support for USB 2.0 or later is recommended)



• USB1.x can also be used, but it will take more time to copy the system software.

Installation Procedure

- 1. Install the USB Prep Tool application on the PC, if it is not already installed:
 - 1. Insert the USB Prep Tool CD in the PC's CD/DVD drive.
 - 2. Turn off the PC's power.
 - 3. Turn on the PC and wait while the PC boots to Windows.
 - 4. Navigate to the CD/DVD drive and click Setup.exe.
 - 5. Select Install and wait a few moments for the application to be installed on the PC.



After the application is installed, it will automatically launch. If you are not ready to prepare
the USB drive now, you can click Cancel and remove the USB Prep Tool CD.

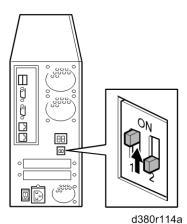
- After the application is installed on the PC, the USB Prep Tool CD is no longer needed. When
 you wish to prepare a USB drive, go to the Windows Start Menu, navigate to All Programs >
 Electronics For Imaging > USB Prep Tool and follow the prompts.
- 2. Prepare the USB drive.
 - 1) Remove the USB Prep Tool CD from the PC's CD/DVD drive (if it has not been removed already).
 - 2) Insert the system software DVD in the PC's CD/DVD drive.
 - 3) Attach the USB drive to the PC.



- All data on the USB drive will be lost when the USB drive is reformatted during the next step of
 this procedure. You may wish at this time to make sure that no valuable data resides on the
 USB drive.
- 4) Follow the on-screen prompts to the USB drive:
 - Start screen: Specify the drive to copy from (the drive letter of the CD/DVD drive). Specify the
 drive to copy to (the drive letter of the USB drive). Click Proceed when the Proceed button
 appears and is available.
 - Prepare screen: The progress bar and time remaining show that the files are being copied.
 Copying the files usually takes 15-30 minutes, but may take considerably longer depending on your PC. Do not cancel. Click Proceed when the Proceed button appears and is available.
 - Finish screen:

Confirm that the contents of the system software DVD were copied successfully to the USB drive. Click Finish to exit the application. The DVD will eject automatically. Remove the system software DVD.

- 3. Install system software on the E-3300/5300 using the prepared USB drive:
 - 1) Print the Configuration Page. Then perform the Shut Down procedure from the copier operation panel (p.34 "Shutting Down the E-3300/5300 Only")
- 4. When the E-3300/5300 power is down (that is when the diagnostic LEDs are off), turn the main power switch of the E-3300/5300 to OFF.
- 5. Disconnect all cables from the E-3300/5300 connector panel.
- 6. Set the E-3300/5300 service switches as shown below. ("1" ON, "2" OFF)



7. Attach the prepared USB drive to one of the USB ports on the E-3300/5300.

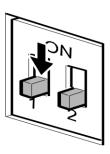


- If dust covers are attached to the USB Type A connectors, remove one dust cover using needle-nosed pliers.
- 8. Turn the main power switch of the E-3300/5300 to ON, then press and release the soft power push button on the front of the E-3300/5300 and wait until installation is complete. (The E-3300/5300 shuts down automatically after installation is complete.)

The diagnostic LEDs increment quickly to initialize, then the diagnostic LEDs display 00 and increment every 30 seconds while the files transfer.

Installation takes approximately 15-25 minutes. The LED on the USB drive should show that files are being transferred.

- 9. Turn the main power switch of the E-3300/5300 to OFF and remove the USB drive from the E-3300/5300.
- 10. Reconnect all cables that you removed earlier from the E-3300/5300 panel.
- 11. Set the service switches in the normal position. (Not ON)



g815r021a

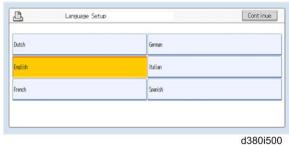
- 12. Turn on the main power switch of the copier.
- 13. Turn the main power switch of the E-3300/5300 ON, then press and release the soft power push button on the front of the E-3300/5300.

14. Allow startup to proceed without interruption while you watch the diagnostic LEDs on the back panel of the E-3300/5300



- Do not power off the E-3300/5300.
- 15. When the diagnostic LEDs remain at '00', go to the copier operation panel and press the Fierydriven key. 'Please wait' may be shown on the copier operation panel.
- 16. The language selection screen is shown. (If this screen is not shown, then press the Fierydriven key again.)

Select the desired language, and touch "Continue".



- English
- Dutch
- Spanish
- Italian
- German
- French



- 1) After you have selected a language, you cannot change the language unless you perform "Factory Defaults" (p.65 "Restoring the E-3300/5300 to Factory Defaults") or re-install the system software.
- 2) The default settings for the E-3300/5300 depends on the language selection as follows:

		Selected Language & Measurement Unit	
		English - US	English - Metric / Dutch / Spanish / Italian / German/ French
PS Setting	Default Paper Sizes	US	Metric

If you selected "English" at the language selection screen, you are prompted to select the Measurement Unit. Select either "US" or "Metric", and then touch "Continue".



- 17. Wait for a short time, then press the **Fierydriven** key on the operation panel. Repeat if necessary until "Please wait" no longer appears.
- 18. Press the Fiery tab to access Setup, and press Setup at the Fiery menu screen.
- 19. You are asked to enter the administrator password. (The default password is "Fiery.1".)
- 20. Input the customer's settings from the Configuration pages that you printed earlier. If there exists a backed up configuration settings file, restore it after the network configuration is completed. (***
 p.41 "Backup / Restore the System Settings")



- Ask the site administrator for the other settings that are not on the Configuration pages. You
 must reboot the E-3300/5300 to apply the settings. For more information, see the
 "Configuration and Setup" manual.
- 21. If you have been any patches (system update files) for the version of system software you have just installed, installed the patches now. See the instructions provided with each patch.

Patch Installation Procedure

When a software bug is found and fixed, or a new feature is added, a patch file (ps file) may be additionally released.

The patch installation procedure may vary depending on the patch; the download destination queue or system rebooting procedure may be different. Some patches may require prerequisite patches.

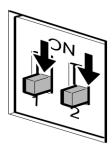
Therefore, when you install a patch, make sure to carefully read the attached release note and follow the instructions.

5. Troubleshooting

Overview

When a problem occurs during normal operation, check in the following order.

1. Verify that the service switches are in normal operation mode, not in a service mode. (The switches should be in the lower position.)



g815r021

- 2. Check that the Fiery menu appears on the copier's operation panel.
- 3. Verify that the network is functioning, no unauthorized software or hardware is installed on the E-3300/5300, and there are no problems with a particular print job or application. The site administrator can help you to verify these issues.
- 4. Verify that the E-3300/5300 and its connection with the copier has no problem by printing test pages. (p. 28 "Printing the Configuration Page or Test Sheets")
- 5. If the E-3300/5300 can boot, check if the diagnostic LEDs on the back panel of E-3300/5300 stop on a particular diagnostic code. (**p.80 "LED Diagnostic Codes")
- Check that all cables, connectors, and replacements are present, appear undamaged and are correctly installed and connected.
 - (p.43 "Replacement")
- 7. Try to solve the problem by performing "Clear Server" or "Factory Defaults".

Inform the site administrator that the data stored in the HDD will be deleted.

- (p.63 "Clearing the Queued Print Jobs in the E-3300/5300" and p.65 "Restoring the E-3300/5300 to Factory Defaults")
- Check if a newer version of system software, firmware, or patch for the E-3300/5300 and copier
 has been released. If so, install it. (p.67 "System Software Installation Procedure")
- 9. If the problem will not disappear, reinstall the system software. (p.67 "System Software Installation Procedure")
- If the problem will still not disappear, you may need to replace parts of the hardware. (p.86 "Errors and Suggested Actions")

LED Diagnostic Codes

During startup, the E-3300/5300 advances through a standard diagnostic sequence. Each diagnostic code flashes rapidly on the LED display during this sequence until the E-3300/5300 reaches the Idle condition. In the Idle condition, the LED display shows the 00 code. This shows that the E-3300/5300 is in normal operation mode. The E-3300/5300 may flicker or drift from 00 during normal operation, but it will always return to 00.

If the LED display stops on a diagnostic code before the E-3300/5300 completes the boot up process, one or more diagnostic tests may have failed. Look up the diagnostic code in the following table to determine the troubleshooting actions that you should take.



A component may be faulty without an error code being displayed. Also, it is possible for an error
code to indicate a defective component but that component may not be defective. Use the error
codes only as a guide for what to investigate further.

Overview

Try the following procedures if the E-3300/5300 is hanging up on a diagnostic code.

1: Rebooting the E-3300/5300

When the E-3300/5300 is already ON and hanging up on a diagnostic code, reboot the E-3300/5300 properly to see if the problem persists. Results are unpredictable when the E-3300/5300 is rebooted incorrectly.

- 1. Press and hold the soft power button until the E-3300/5300 turns off.
- 2. Wait a full 30 seconds.
- 3. Press (but do not hold) the soft power button.
- 4. Wait to see if the E-3300/5300 reaches idle.

2: Checking the components

Always check the unit for visible problems.

- 1. Check the interior for foreign objects.
- 2. Check the cables to make sure they are intact, with no visible damage, and that each is the correct cable, and correctly installed.
- 3. Check all connectors for visible damage.
- 4. Check the replaceable parts for visible damage, and that each is the correct part and correctly installed.

3: Turn on the E-3300/5300 Power

After you reassemble the unit, turn on the E-3300/5300 power properly to see if the problem persists. Results are unpredictable when the E-3300/5300 power is turned on incorrectly.

- 1. Connect the AC power cord to the AC power outlet.
- 2. Toggle the AC power switch to the ON position.
- 3. Wait a full 30 seconds.
- 4. Press (but do not hold) the soft power button.

Wait to see if the E-3300/5300 reaches the idle status.

LED Diagnostic Code Tables

* 1: Try in the listed order. If the problem persists, try the next one.

LED diagnostic Code	Details (Possible cause, Suggested action * 1)
Any specific code not listed in this table that the machine hangs up on before the system reaches idle status.	 BIOS settings on the motherboard are corrupted. Motherboard defective 1. Clear CMOS using the following procedure: Turn off the controller and unplug the AC power cord. Open the controller and remove the battery from the motherboard. Wait a full 5 minutes. Re-install the battery. Reassemble the E-3300/5300 and turn the power on properly (p.79). If you have checked all cables, connections, and components (p.79)
	3. Replace the motherboard.

LED diagnostic Code	Details (Possible cause, Suggested action *1)
00	When the E-3300/5300 is idle and in operational mode, the LED display shows 00. If the LED display shows 00 but the E-3300/5300 is not functioning properly, one or more components may be at fault depending on the problems you are experiencing with the E-3300/5300 (** p.86 "Errors and Suggested Actions")
	Battery missing or defective
	Chassis fan missing or defective
	CPU and/or CPU cooling assembly defective
	HDD defective
	BIOS settings on the motherboard are corrupted.
	Motherboard defective
	 If date/time cannot be set or are slow, replace the battery.
	2. If no air or fan noise is evident at the fan, replace the fan.
	3. Replace the HDD
	 Clear the CMOS (Any specific code not listed in this table that the machine hangs up on before the system reaches idle status)
	5. Replace the motherboard.
40	Video board defective
	CPU defective
	BIOS settings on the motherboard are corrupted.
	Motherboard defective
	1. Replace the video board
	2. Replace the CPU
	 Clear the CMOS (Any specific code not listed in this table that the machine hangs up on before the system reaches idle status)
	4. Replace the motherboard

LED diagnostic Code	Details (Possible cause, Suggested action *1)
2A	 DIMM defective Video board defective BIOS settings on the motherboard are corrupted. Motherboard defective 1. Check the DIMM(s) and reseat them to remove oxidation on the connectors. 2. Replace the video board. 3. Clear the CMOS (Any specific code not listed in this table that the machine hangs up on before the system reaches idle status) 4. Replace the motherboard.
D7, D8	 DIMM defective BIOS settings on the motherboard are corrupted. Motherboard defective 1. Check the DIMM(s) and reseat them to remove oxidation on the connectors. 2. Clear the CMOS (Any specific code not listed in this table that the machine hangs up on before the system reaches idle status) 3. Replace the motherboard.
One of the following: 31, 3B, 52, D3, D4, D5, D9, E1, E2, E3, E4, E5, E6, E7, E8, EC, ED, EE, EF	 Possibly one of the following: DIMM missing, defective, or in the wrong slot BIOS settings on the motherboard are corrupted. Motherboard defective Shut down the Copier and the E-3300/5300. Then power on the Copier and E-3300/5300 (pp.79). 1. Check this DIMM is in the correct (outer) slot. 2. Reseat them to remove oxidation on the connectors. 3. Replace the DIMM. 4. Clear the CMOS (pp. Any specific code not listed in this table that the machine hangs up on before the system reaches idle status) 5. Replace the motherboard.

LED diagnostic Code	Details (Possible cause, Suggested action *1)
One of the following: 07, 08, 20, 37, A7, B1, C0, C1, C2, C3, C4, C5, C6, C7, D0, D1, DA	Possibly one of the following: • CPU defective • BIOS settings on the motherboard are corrupted. • Motherboard defective 1. Shut down the Copier and the E-3300/5300. Then power on the Copier and E-3300/5300 (price p.79). 2. Replace the CPU. 3. Clear the CMOS (price Any specific code not listed in this table that the machine hangs up on before the system reaches idle status)
	4. Replace the motherboard.
04	Possibly one of the following: BIOS settings on the motherboard are corrupted. Motherboard battery is defective or dead. Motherboard defective Clear the CMOS (Any specific code not listed in this table that the machine hangs up on before the system reaches idle status) Replace the battery.
05, 38, 90, 2E, 8C, 8E	 Possibly one of the following: Video board is incorrectly installed in the PCI slot. Video board defective BIOS settings on the motherboard are corrupted. Motherboard defective Shut down the Copier and the E-3300/5300. Then power on the Copier and E-3300/5300 (p.79). Reinstall the video board. Replace the video board. Clear the CMOS (p.74) Any specific code not listed in this table that the machine hangs up on before the system reaches idle status) Replace the motherboard.

LED diagnostic Code	Details (Possible cause, Suggested action *1)
EA, EB	Possibly one of the following:
	HDD is faulty.
	BIOS settings on the motherboard are corrupted.
	Motherboard defective
	 Shut down the Copier and the E-3300/5300. Then power on the Copier and E-3300/5300 (▼ p.79).
	2. Reconnect the power and SATA data cables to the HDD.
	3. Replace the SATA data cable.
	4. Replace the HDD.
	 Clear the CMOS (Any specific code not listed in this table that the machine hangs up on before the system reaches idle status)
	6. Replace the motherboard.
FF	Possibly one of the following:
	Service switches are set to Service mode.
	DIMM missing or defective
	HDD defective
	CPU missing or defective
	BIOS settings on the motherboard are corrupted.
	Motherboard missing or defective
	 Make sure the E-3300/5300 service switches are set to Normal mode (away from "ON").
	 Shut down the Copier and the E-3300/5300. Then power on the Copier and E-3300/5300 (▼ p.79).
	3. Reconnect the power and SATA data cables to the HDD.
	4. Replace the HDD.
	5. Replace the CPU.
	6. Check the DIMM. For details, see the Action for code C1 (above).
	 Clear the CMOS (Any specific code not listed in this table that the machine hangs up on before the system reaches idle status)
	8. Replace the motherboard.

Errors and Suggested Actions

The most common causes of hardware problems are loose connections. Before you decide to replace any parts of E-3300/5300, make sure that the parts and connectors are correctly and firmly installed. (p.43 "Replacement")

Start-Up Problems

The following symptoms are described in the tables below:

- 1. When the main power switch is turned on, no power is supplied to the E-3300/5300.
- 2. The E-3300/5300 main power switch can be turned on, but the E-3300/5300 will not continue to boot-up.
- 3. The E-3300/5300 starts up and reaches 00 on the LED display. But after 5 minutes, the Fiery menu still does not appear on the copier operation panel when you press the **Fierydriven** key.
- 4. The CPU cooling fan is not working.
- 5. The CPU cooling fan is making noise.
- 6. If the Fiery menu screen does not appear on the copier operation panel when you press the **Fierydriven** key.

Start-Up Problem-1

Symptom:

When the main power switch is turned on, no power is supplied to the E-3300/5300.

Possible cause:

- The AC power cord of the E-3300/5300 is not connected.
- The soft power push button is not pressed.
- Defective power supply

5

Start-Up Problem-1

Suggested action:

- 1. Connect the AC power cord.
- 2. Press and release the soft power push button.
- 3. Check if the connector of the power supply unit is correctly inserted into the motherboard PW1 socket.
- 4. If the connector is inserted correctly, replace the parts in the following order.
 - 1) AC Power cord
 - 2) Power supply unit
 - 3) Motherboard

Start-Up Problem-2

Symptom:

The E-3300/5300 main power switch can be turned on, but the E-3300/5300 will not continue to boot-up.

Possible cause:

- Motherboard, Memory or CPU is incorrectly installed.
- Motherboard defective
- Memory defective
- CPU defective
- Power supply unit defective

Suggested action:

- 1. Disconnect the AC power cord to the E-3300/5300.
- 2. Check if the memory installed in the DIMM2 socket, and is it installed firmly and correctly.
- 3. Check if CPU installed properly (no pins of the CPU bent or broken)
- 4. Check if cable of the CPU cooling assembly connected to the FAN1 socket.
- 5. Try to install the following parts correctly, and then try to replace the parts in the following order:
 - Power supply unit
 - CPU
 - Memory
 - Motherboard

Start-Up Problems-3

Symptom:

The E-3300/5300 starts up and reaches 00 on the LED display. But after 5 minutes, the Fiery menu still does not appear on the copier operation panel when you press the **Fierydriven** key.

-or-

The E-3300/5300 shuts down after reaching idle (00).

Possible cause:

- System software corruption.
- Defective video board.
- Missing or defective security chip

Suggested action:

- 1. Replace the interface cable. (p.16 "Connecting E-3300/5300 to the Copier")
- 2. Reinstall the system software. (p.67 "System Software Installation Procedure")
- 3. Make sure that the U601 chip is correctly installed on the video board.
- 4. Replace the video board.
- 5. Replace the U601 chip.

Start-Up Problems-4

Symptom:

The CPU cooling fan is not working.

Possible cause:

- Incomplete cable connection.
- CPU cooling fan defective.

Suggested action:

- 1. Check if the cable of the CPU cooling assembly is connected firmly to FAN1.
- 2. Replace the CPU cooling assembly.

Start-Up Problems-5

Symptom:

The CPU cooling fan is making noise.

Start-Up Problems-5

Possible cause:

· Dirty cooling fan.

Suggested action:

1. Remove the cooling fan, clean it, and re-attach it.

Start-Up Problems-6

Symptom:

The Fiery menu screen does not appear on the copier operation panel when you press the **Fierydriven** key.

Possible cause:

- · Controller not ready
- Loose connection of the Gigabit Ethernet PCB.
- Gigabit Ethernet PCB defective
- System software corruption
- Copier SP is not properly set.

Suggested action:

- Check if the Gigabit Ethernet PCB is inserted straight and connected firmly into the C slot on the copier. (p. 16 "Connecting E-3300/5300 to the Copier")
- 2. If the above checks do not solve the problem, replace the interface cable or Gigabit Ethernet PCB
- 3. Check if SP5-193-001 is set to "1".
- 4. Check if SP5-895-001 is set to "1".

System Problems

The following symptoms are described in the tables below:

- The system date on the configuration page will always be returned to an old date (factory defaults date) after you turn on the E-3300/5300; or the time and date settings that appear on the configuration page are sometimes earlier or later than the actual time and date.
- 2. The system performs slowly or stops sometimes.

System Problem-1

Symptom:

The system date on the configuration page will always be returned to an old date (factory defaults date) after you turn on the E-3300/5300; or the time and date settings that appear on the configuration page are sometimes earlier or later than the actual time and date.

- BIOS settings were lost due to a dead battery.
- Motherboard defective

Suggested action:

- 1. Replace the lithium battery on the motherboard, and re-configure the system time and date.
- 2. Replace the motherboard.

System Problem-2

Symptom:

The system performs slowly or stops sometimes.

Possible cause:

- DIMM defective or faulty DIMM connection
- HDD defective
- CPU overheated and/or defective
- Motherboard defective

Suggested action:

- 1. Reconnect the DIMM.
- 2. Replace the DIMM.
- 3. Check if the connectors of the power supply unit and HDD are firmly inserted in the sockets.
- 4. Replace the soft power push button cable or activity LED cables.
- 5. Replace the HDD.
- 6. Make sure that the CPU on the motherboard is connected correctly and that the fan cable is connected.
- 7. Replace the CPU.
- 8. Replace the motherboard

System Software Installation

The following symptoms are described in the tables below:

- 1. The E-3300/5300 start page fails to print from the copier after the installation is complete.
- 2. One of the following:
 - Installer screen hangs up at Waiting for E-3300/5300 to be ready, FTP/TFTP Setup, or Transferring boot file for longer than 15 minutes.
 - Installation fails repeatedly.
- 3. Installation stalls for 5 minutes (or longer) while downloading.
- 4. Cannot load the contents of the System Software onto the USB drive using the USB Prep Tool CD.
- 5. When installing the system software from the USB drive, the E-3300/5300 remains on for 30 minutes (or longer) after beginning the installation.
- 6. When installing the system software from the USB drive, the LED on the USB drive remains off or on (not blinking).

System Software Installation-1

Symptom:

The E-3300/5300 start page fails to print from the copier after the installation is complete.

Possible cause:

The copier is not loaded with the required paper stock.

Suggested action:

1. Load the copier tray with the size of paper that is appropriate for the national language selected for the E-3300/5300 system.

Network Port Method

System Software Installation-2

Symptom:

One of the following:

- Installer screen hangs up at Waiting for E-3300/5300 to be ready, FTP/TFTP Setup, or Transferring boot file for longer than 15 minutes.
- Installation fails repeatedly.

System Software Installation-2

Possible cause:

- There is a conflict between the installer or the security settings on the PC.
- Incorrect or defective RJ-45 cable
- The installer is not compatible with the PC.

Suggested action:

- Check again that you have disabled all software programs and network and security settings on the PC. Then retry the installation. Before you retry the installation, turn off the E-3300/5300 power using its dedicated AC power switch and wait 10 seconds.
- Make sure you a using a cross-over RJ-45 cable. As an alternative, you can use two straight-through RJ-45 cables and a network hub. Connect only the PC and the E-3300/5300 to the hub. If the cable appears damaged, replace it.
- 3. If the problem persists, retry the installation using a different PC.

System Software Installation-3

Symptom:

Installation stalls for 5 minutes (or longer) while downloading.

Possible cause:

- The service switches are set to normal mode
- Incorrect or defective RJ-45 cable
- Motherboard defective

Suggested action:

- 1. Make sure the E-3300/5300 service switches are set to service mode (toward "ON).
- Make sure you a using a cross-over RJ-45 cable. As an alternative, you can use two straight-through RJ-45 cables and a network hub. Connect only the PC and the E-3300/5300 to the hub. If the cable appears damaged, replace it.
- 3. Replace the motherboard.

USB Drive Method

System Software Installation-4

Symptom:

Cannot load the contents of the System Software onto the USB drive using the USB Prep Tool CD.

Possible cause:

- The USB drive and/or PC do not meet the minimum system requirements.
- There is a conflict between the USB Prep Tool CD and the USB drive.

Suggested action:

- Make sure that the USB drive and the PC meet the minimum system requirements described in this manual (p.72 "Installing System Software Using a USB Drive").
- 2. If the problem persists, try using a different PC. If you have been using a laptop PC, try a desktop PC instead.
- 3. If the problem persists, try using a different USB drive.

System Software Installation-5

Symptom:

When installing the system software from the USB drive, the E-3300/5300 remains on for 30 minutes (or longer) after beginning the installation.

- The position of the service switches are incorrect.
- HDD defective
- · Motherboard defective
- USB drive defective.

System Software Installation-5

Suggested action:

- 1. Make sure that the service switches are set to 1=ON 2=OFF during the USB drive system software installation.
- Check the LED on the USB drive. If the LED is not blinking (remains off or on), the drive may be
 connected incorrectly. Turn off the E-3300/5300 main power switch, and reconnect the drive.
 Then turn the main power switch on, and press and release the soft power push button and allow
 the installation to resume.
- 3. Check the connection of the power and SATA data cables.
- 4. Replace the SATA data cable.
- 5. Replace the HDD.
- 6. Replace the motherboard.
- 7. Replace the CPU.
- 8. Retry the installation with a different USB drive.

System Software Installation-6

Symptom:

When installing the system software from the USB drive, the LED on the USB drive remains off or on (not blinking).

Possible cause:

- USB drive defective or not correctly connected
- Motherboard defective
- HDD defective

Suggested action:

- 1. Turn off the E-3300/5300 main power switch and reconnect the USB drive. Then turn the power on, and press and release the soft power push button and allow the installation to resume.
- 2. Retry the installation with a different USB drive.
- 3. Replace the motherboard.
- 4. Check the connection of the power and SATA data cables.
- 5. Replace the SATA data cable.
- 6. Replace the HDD.

Network Problems

The following symptoms are described in the tables below:

- 1. E-3300/5300 does not communicate with the network.
- 2. Unable to connect to the network; or no LED on the 10/100/1000BaseT network connector is lit.
- 3. The system starts up slowly (seems to stop); and the Configuration Page shows an error on the "IP Address" line under "Network Setup".

Network Problem-1

Symptom:

The E-3300/5300 does not communicate with the network.

Possible cause:

• Wrong cables because the cross-over cable and the straight through network cable look alike.

Suggested action:

Check the labeling on the cable connectors and /or the wire color sequence on the connectors
to make sure you are using a network straight-through cable to the customer's LAN from the
RJ-45 second from the bottom.

Network Problem-2

Symptom:

Unable to connect to the network; or no LED on the 10/100/1000BaseT network connector is lit.

- The cable is connected to a port that is not used.
- Defective network cable or connection
- Network problem
- Defective Ethernet interface on the motherboard

Network Problem-2

Suggested action:

- Make sure the network cable is the correct type and connected to the correct network port on the E-3300/5300.
- 2. Check the cable connection to the network port.
- 3. Replace the cable with a new or tested cable.
- 4. Ask the network administrator to check other devices on the network.
- 5. If other devices are not functioning, it could be a problem with the network.
- 6. If the rest of the network operates correctly and the problem persists, replace the motherboard.

Network Problem-3

Symptom:

The system starts up slowly (seems to stop); and the Configuration Page shows an error on the "IP Address" line under "Network Setup".

Possible cause:

Normal behavior. The system is searching for a nonexistent DHCP server. DHCP is enabled by default on the E-3300/5300, but the customer's network is not using DHCP.

If the customer's network is using DHCP:

- Defective network cable or connection.
- · Network problem.
- Defective Ethernet interface on the motherboard.

Suggested action:

- 1. If the problem persists, ask the network administrator to change the default in the E-3300/5300 network setup.
- 2. If no LED is lit on the E-3300/5300's network port, check the cable connection to the E-3300/5300 and the network. Make sure the cable is the correct type.
- 3. Ask the network administrator to check other devices on the network.
- 4. If other devices are not functioning, it could be a problem with the network.
- 5. If the rest of the network operates correctly and the problem persists, replace the motherboard.

Printing Problems

The following symptoms are described in the tables below:

- 1. A test page or configuration page cannot be printed, or the images on the printed pages are abnormal.
- 2. The E-3300/5300 appears on the list of printers on the customer's workstation, but certain jobs do not print.
- 3. A print job stops after one or few pages.
- 4. Print Quality is poor.
- 5. Pages come out blank, or tinted with green or some other color.

Symptom:

A test page or configuration page cannot be printed, or the images on the printed pages are abnormal.

- The copier is not ready to print.
- Copier problem
- Loose cable connection
- Interface cable defective
- Loose connection of the Gigabit Ethernet PCB
- Gigabit Ethernet PCB defective
- Video board defective
- Corrupted system software.
- HDD defective.

Suggested action:

- 1. Make sure the copier main power switch is on and the copier is ready to print.
- 2. Check the copier operation panel for indications or messages about the copier status.
- 3. Check that the copier operates correctly. (Check if you can make hard copies without any problem)
- 4. Make sure the E-3300/5300 main power switch is in the "ON" position.
- 5. Shut down the Copier and the E-3300/5300. Then power on the Copier and the E-3300/5300.
- 6. Make sure the Fiery menu screen appears when you press the Fierydriven key.
- 7. Check if the Gigabit Ethernet PCB is inserted straight and connected firmly into the C slot on the copier. (p.16 "Connecting E-3300/5300 to the Copier")
- 8. Check again that the video board is present and properly connected to the motherboard.
- 9. Replace the Gigabit Ethernet PCB.
- 10. Replace the video board.
- 11. If the problem persists, you may need to service the copier.
- 12. Try "Clear Server", "Factory Defaults", or re-install the system software. (p.63 "Clearing the Queued Print Jobs in the E-3300/5300"/ p.65 "Restoring the E-3300/5300 to Factory Defaults")
- 13. Replace the HDD
- 14. If replacing the HDD does not correct the problem, make sure you install the old HDD back in the E-3300/5300.

Printing Problem-2

Symptom:

The E-3300/5300 appears on the list of printers on the customer's workstation, but certain jobs do not print.

- PostScript error
- Application problem

Suggested action:

- Make sure 'Print to PostScript Error' in Setup is set to Yes. Check for error messages on the E-3300/5300 output.
- 2. Print a job from a different application to determine if the problem is associated with a particular application.
- 3. Make sure the connection between the E-3300/5300 and the workstation is operating. To do this, download a test page from the workstation or print a simple test file.
- 4. Resend the problem file.

Printing Problem-2

Symptom:

The configuration page is completely or mostly blank.

Possible cause:

- Defective DIMM
- Corrupted system software

Suggested action:

- 1. Check the DIMM and reconnect it, to remove oxidation on the connectors.
- 2. Reinstall the system software. (p.67 "System Software Installation Procedure")
- 3. Replace the DIMM.

Printing Problem-3

Symptom:

A print job stops after one or few pages.

- Normal process, if this occurs when printing the first copy of a multi-copy print job.
- PostScript or application error
- Defective DIMM.

Printing Problem-3

Suggested action:

- 1. The working area memory became full during ripping, and the printer switched to rip-only mode until all pages were ripped.
- 2. Cancel the E-3300/5300 print job.
- 3. If this fails to clear the problem, turn on and off the Copier and E-3300/5300.
- 4. If the problem persists, perform Clear Server. (p.63 "Clearing the Queued Print Jobs in the E-3300/5300")
- 5. Check the DIMM and reconnect it, to remove oxidation on the connectors.
- 6. Reinstall the system software. (p.67 "System Software Installation Procedure")
- 7. Replace the DIMM.

Printing Problem-4

Symptom:

Print Quality is poor.

- Missing or outdated printer description file.
- The application cannot find the necessary printer description file.
- Problem with the copier
- Out of calibration or calibration information/curves on the active partition are corrupted.
- Calibration information/curves on the active partition are corrupted.

Suggested action:

1. Make sure the necessary printer description file is installed.

For information on printer files, see "Printing from Windows and Printing from Mac OS" on the user documentation CD.

- 1. Test the copier and service it if necessary (see the copier service manual).
- Start ColorWise Pro Tools from a client computer and click the Calibratior icon. Then click
 Restore Device in the calibrator window. Restore Device restores the E-3300/5300 calibration
 information to the factory defaults. If restoring the default calibration does not solve the problem,
 you may need to service the copier.
- 3. If restoring the default calibration corrects the color quality, a custom calibration may have been the cause of the problem. Ask the site administrator to recalibrate the E-3300/5300.
- 4. If the problem persists after recalibration, the calibration information on the HDD may be corrupted. Reinstall the system software. (p.67 "System Software Installation Procedure")
- 5. If the problem persists, the HDD may be corrupted. Verify that all HDD cabling is correct.
- 6. If HDD cabling is correct, you may need to replace the HDD.

Printing Problem-5

Symptom:

Pages come out blank, or tinted with green or some other color.

Possible cause:

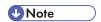
- Bad connection between the E-3300/5300 and the Copier.
- Problem with the copier.

Suggested action:

- 1. Turn on and off the Copier and E-3300/5300.
- 2. Test the copier and service it if necessary (refer to the copier service manual).

If the customer can print the Configuration Page from the copier operation panel but cannot print a job from a computer on the network, ask the network administrator to do the following:

- Check all components of the network, including cables, connectors, network adapter boards, and network drivers.
- · Activate the network and use it to communicate with other printers.
- Confirm that the applicable network setting in Setup (such as AppleTalk zone, IP address, Subnet mask, and Gateway address) match the settings used in the network.



• EPS file generation is not fully standardized among applications. Some users may encounter problems while printing certain EPS files.

Test the Voltage Supplies

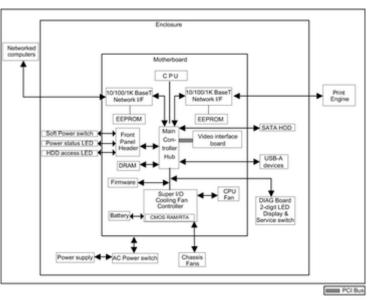
To check if the power supply is working, use a multimeter at the following locations on the power supply unit.

Test the voltages on the ends of the connectors coming from the power supply unit. The following table lists the power connectors.

Connector No.	Connected To	Position	Output	Wire Color
		1	+3.3V	Orange
		2	+3.3V	Orange
		3	Ground	Black
		4	+5V	Red
		5	Ground	Black
		6	+5V	Red
	Motherboard (PW1)	7	Ground	Black
		8	PW-OK	Gray
		9	+5Vsb	Violet
20-pin		10	+12V	Yellow
connector		11	+3.3V and +3.3V Remote Sense	Orange and Brown
		12	-12V	Blue
		13	Ground	Black
		14	PS-ON	Green
		15	Ground	Black
		16	Ground	Black
		17	Ground	Black
		18	(Not Connected)	-
		19	+5V	Red
		20	+5V	Red
	PW2	1	Ground	Black
4-pin		2	Ground	Black
connector		3	+12V	Yellow and Black
		4	+12V	Yellow and Black

6. Detailed Section Descriptions

Block Diagram and Functions



d502d501

Components

Component	Туре	Configuration
Processor	Intel Pentium Dual Core E5300	2.60GHz
Hard Drive	Serial ATA	160GB
SDRAM	PC3200 DDR2	1GB, 240 pin
BIOS ROM	Flash	8MB
EEPROM	EEPROM	1 Kbit

Networking

Cable requirements:

- 10BaseT (Ethernet): Unshielded Twisted Pair (UTP), Category 3 or higher
- 100BaseTX (Fast Ethernet): UTP, Category 5 or higher (4-pair/8-wire, short length)
- 1000BaseT (Gigabit Ethernet): UTP, Category 5e or higher (4-pair/8-wire, short-length)



• If the print engine is 230V, use a shielded network cable.

Video Board

The Video Board functions include:

- High speed data transmission
- High speed data decompression
- Engine output at maximum rated output speed

The video interface controls such aspects of the print job as:

- Hardware decompression
- Print quality enhancement technologies

Hard Disk Drive

The hard disk drive is used to optimize many parts of the printing system as well as improving throughput and ease-of-use. The hard disk drive stores the following information:

- System software
- Non-volatile spooled print jobs
- Additional storage for compressed pages
- Non-volatile record of printed jobs (Job Log)
- Resource storage space for downloaded fonts

Non-Volatile Memory

- The 8MB Flash Memory contains the BIOS, etc.
- The 1 Kbit EEPROM holds the MAC address data.

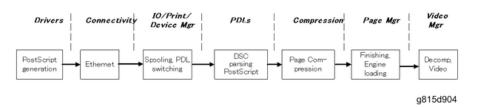
Volatile Memory

• SDRAM is one 1GB, PC3200, Double Data Rate 2 (DDR2), 240-pin.

6

Print Data Processing

Flow Chart



The key roles of each part of the print system are outlined below.

- The drivers are responsible for generating the page description on the host system and for transmitting data to the printer.
- The I/O manager mediates the connection with the network interface and establishes a device or print manager connection.
- The print manager is responsible for spooling the job (if appropriate) and for feeding jobs to the correct PDL interpreter.
- The PDL interpreters are responsible for turning page descriptions into rendered pages and for parsing job management comments.
- The compression subsystem manages compressed pages in memory.
- The page manager coordinates pages for sending to the engine for the most efficient printing, finishing, and accessory handling.
- The video subsystem is responsible for decompressing pages and feeding the engine with appropriate engine signals. The video subsystem also handles certain print quality processing functions.

7. Specifications

General Specifications

Configuration:	External Type Printer Controller Unit
Motherboard:	CPU: Intel Pentium Dual Core E5300 2.60GHz Network Interface: RJ-45 Network port (1000-Base/100-Base/10-BaseT)
Memory:	1GB (standard and max.) 240 pin SDRAM: PC3200 DDR2
HDD:	Internal HDD: 160GB
Operating System:	Linux
Network Protocols:	AppleTalk (Auto switching) TCP/IP (IPv4/IPv6) SMB
Printer Description Languages:	Adobe PostScript3 (Standard), PCL6/5c (Standard)
Supported Driver Language:	English, French, German, Italian, Spanish and Dutch
Print Resolution:	1200dpi (1bit), 600dpi (4-bit)
Gradation:	1 bit/pixel, 4 bits/pixel
Scan Resolution:	Max. 600 dpi
Scan Source:	ADF / Exposure Glass
Scan Sides:	Simplex / Duplex
Scan Destination:	Hold Queue / MailBox / Email / FTP Server/ Internet Fax Client PC Disk (E-3300/5300 Remote Scan only)
Scan Format:	PDF/ TIFF/ JPEG

	AT-C3a:
	30 ppm in Plain/Middle Thick mode
	17.5 ppm in Thick/OHP mode (depending on paper type)
	AT-C3b:
	35 ppm in Plain/Middle Thick mode
	17.5 ppm in Thick/OHP mode (depending on paper type)
Printing Speed:	AP-C3c:
	45 ppm in Plain/Middle Thick mode
	17.5 ppm in Thick/OHP mode (depending on paper type)
	AP-C3d:
	55 ppm in Plain mode
	25 ppm in Middle Thick mode
	17.5 ppm in Thick/OHP mode (depending on paper type)
	PostScript: 138 fonts
Resident Fonts:	PCL: 80 AGFA fonts
Power Consumption:	Rated: 80W
Noise Emission:	Sound Power Level: Less than 51db(A)
(Sound Power Level)	Sound Pressure Level: Less than 41db(A)
	124.3mm x 362.5mm x 294.6mm,
Dimensions (W x D x H):	4.9" x 14.3" x 11.6"
Weight:	5.8 kg (12.5 lb)

MEMO

MEMO

