
SETUP INSTRUCTIONS

PRINTER PANEL 1

CF2002/CF3102 Printer



WARNING

- *Do not plug in the power cord or turn on this unit until you are instructed to according to this manual.*



CAUTION

- *Install this machine so that it can quickly be unplugged from the electrical outlet in case of an emergency. The socket-outlet shall be installed near the machine and shall be easily accessible.*
- *Keep all packing materials out of the reach of children.*

NOTE

- *Keep all packing materials in a safe place for later use in case they are needed for transportation.*
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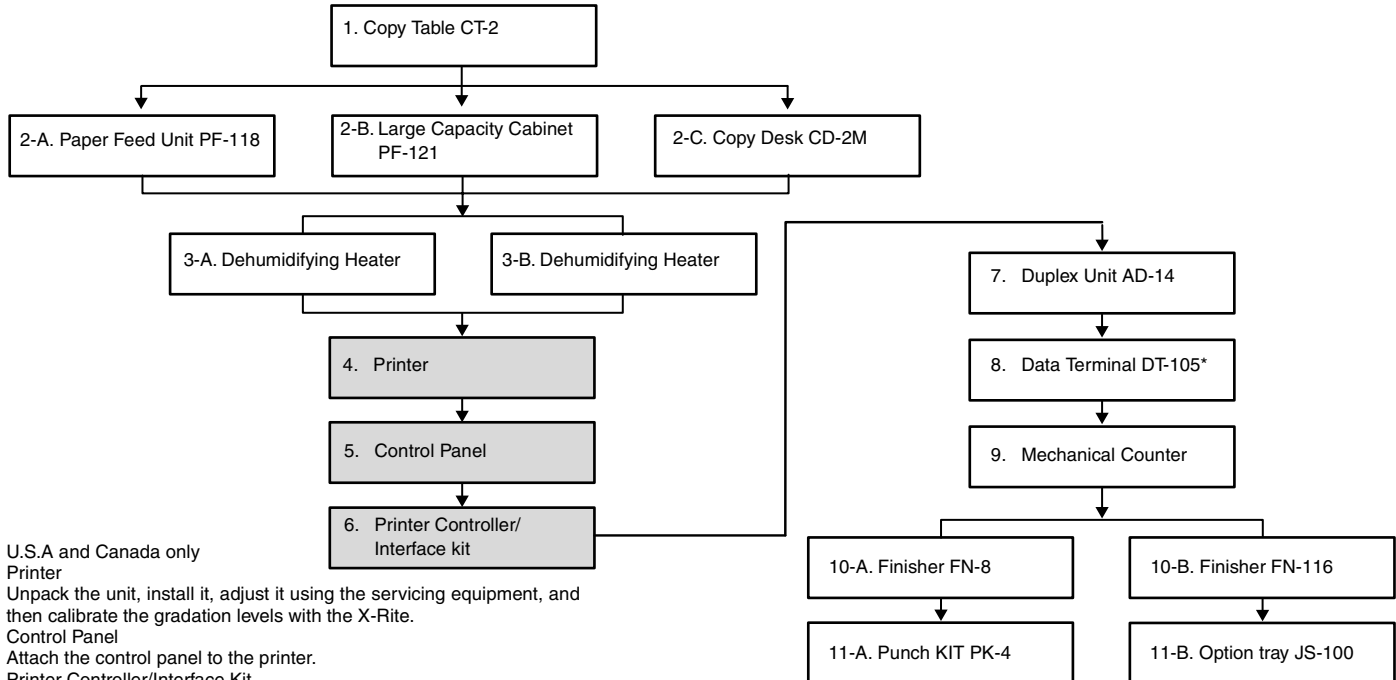
1. Outline of the CF2002/CF3102 System Setup

These Setup Instructions describe the setup for the parts marked in grey in the flowchart shown below.

When setting up a system consisting of the printer and its various options, perform the setup according to the procedure described below.

NOTE

- Install and setup each option according to the instructions included with the option.
- For information on adjusting the PF-118, PF-121 and AD-14, refer to the section "Adjusting the Options" on pages 27 to 31 of these Setup Instructions.



*: U.S.A and Canada only

4: Printer

Unpack the unit, install it, adjust it using the servicing equipment, and then calibrate the gradation levels with the X-Rite.

5: Control Panel

Attach the control panel to the printer.

6: Printer Controller/Interface Kit

Attach the printer controller, and then specify the necessary settings.

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1.1 Precautions Concerning the Package Contents (Manuals)

The following manuals for the products listed below are included.

NOTE

Manuals that cannot be used with the printer are also included.

■ Printer

- User Manual for a copier*
- Setup Instructions for a copier*

■ Printer Panel 1

- User Manual for a printer (including information on PageScope Light)
- Setup Instructions for a printer (this manual, including information on the printer controller and interface kit)

■ Interface Kit P

- User Manual for a copier (PageScope Light and Scan mode)*
- Installation Guide for a copier (printer controller and interface kit P)*

■ Controller

- Controller User Manual

*:Cannot be used with the CF2002/CF3102 printer.

1.2 Precautions Concerning the Installation of the Controller

When installing the printer controller onto a printer that has the duplex unit attached, the printer memory must have 512 MB.

2. Unpacking

2.1 Unpacking the Accessories

Remove the accessories from the box, and then check that the following are enclosed.

(1) Imaging units.....	4
(2) Power cord *1.....	1
(3) LED cleaning tool *2.....	1
(4) LED cleaning paper *2.....	1
(5) Manual holder.....	1
(6) User Manual.....	1
(7) Setup Instructions.....	1
(8) Warranty card *3.....	1
(9) Power cord instruction *1.....	1
(10) Paper size label.....	1
(11) Cable clamp.....	1
(12) Cap.....	1

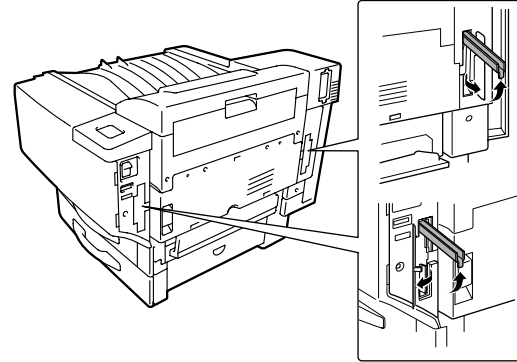
*1 For Particular area only.

*2 The LED cleaning tool and its paper are not used during setup. Since they will be needed when the transfer belt unit is changed or the printer is cleaned, keep them in a safe place for later use.

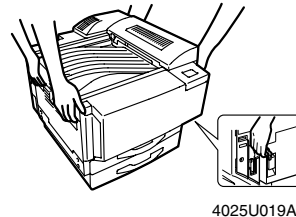
*3 U.S.A. and Canada only.

2.2 Unpacking the Printer

1. Open the printer box, and then remove the box containing the imaging unit.
2. Open the two handle covers, and then pull out the handles.



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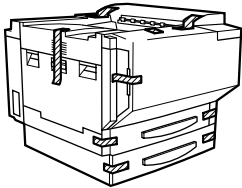
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3. Grasp the two handles on the right side of the printer and the two grips on the left (as shown in the illustration), and then, while keeping the printer level, remove it from its box.

NOTE

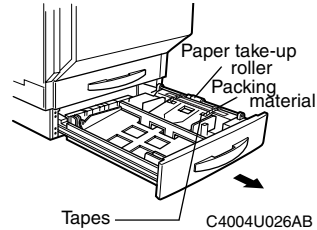
The printer weighs about 85 kg (187-1/4 lbs.). The printer must be lifted by at least two people.

2.3 Removing the Protective Tape and Packing Materials

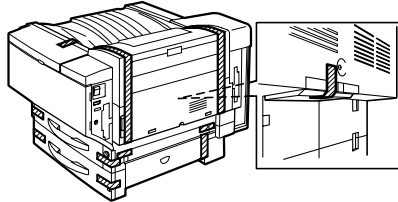


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1. Remove the tape affixed to the outside surface of the printer.

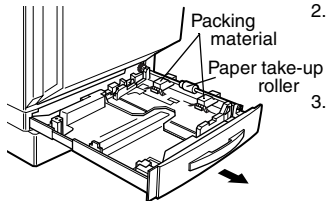


4. Slide out the 2nd drawer and remove protective tape and packing materials from the inside of the drawer.



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2. Slide out the 1st drawer and remove protective tape and packing materials from the inside of the drawer.



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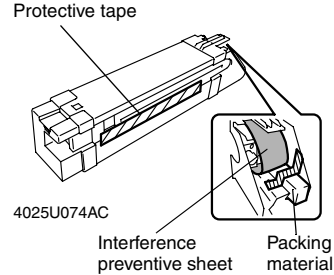
3. Close the paper drawer.

5. Close the paper drawer.

3. Installing the Unit

3.1 Installing the Imaging Unit

1. Open the front door.
2. Pinch the Imaging Unit release lever for Yellow and pull it down forward.



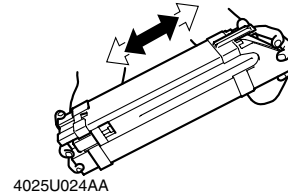
4. Take out the Yellow Imaging Unit from the Imaging Unit carton.
5. Remove the Imaging Unit from its aluminum package.
6. Remove protective tape and packing material.

NOTE

Do not peel off the interference preventive sheet.

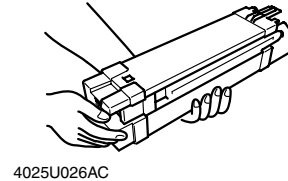
3. Slide out the protective material.

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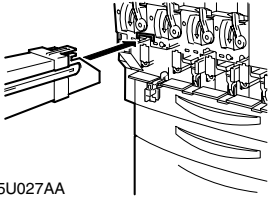


7. Tilt the Imaging Unit to the left and, in that condition, shake it over a small stroke twice. Then, tilt the Imaging Unit to the right and, in that condition, shake it over a small stroke twice.

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8. Support the Imaging Unit with both hands and hold it levelly.

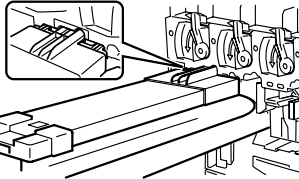


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9. Keeping the Imaging Unit in the level position, insert the Imaging Unit into the mounting position on the printer until its leading edge is stopped.
Make sure that the interference preventive sheet is left attached to the Imaging Unit when the Imaging Unit is inserted into the printer.

NOTE

Make sure the protective sheet is rolled up into the Imaging Unit, then insert Imaging Unit into the Printer.

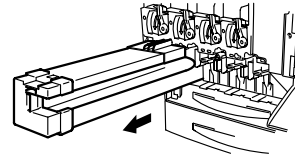


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10. Check that the Imaging Unit is inserted positively in position.

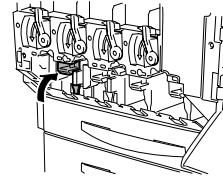
NOTE

The positioning rib at the leading edge of the Imaging Unit cover should be fitted positively in the hole in the mounting position on the printer.



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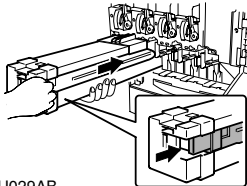
12. Pull out the empty Imaging Unit cover.



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13. Push the Imaging Unit release lever of Yellow all the way until a click is heard.

14. Using the same procedure, install all Imaging Units.



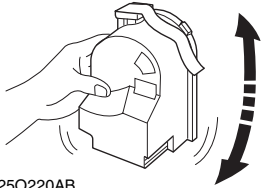
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11. Supporting the underside of the Imaging Unit with your left hand, hold the portion of the unit shown in the illustration with your right hand and gently push it into position until a click is heard.

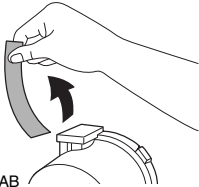
3.2 Installing the Toner Cartridge and the Filter

NOTE

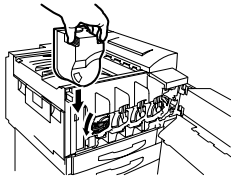
Toner does not come with the printer. Purchase toner cartridges (of different colors) separately available.



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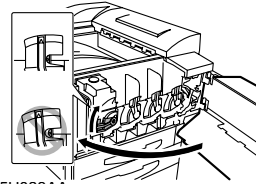


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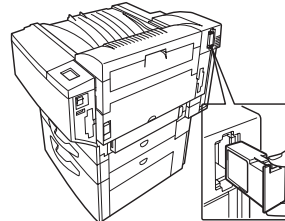


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1. Open the front door.
2. Holding the toner cartridge firmly, shake it well vertically and horizontally to agitate toner.
3. Remove the protective tape.
4. Swing the fixing lever downward.
5. Load the toner cartridge in position.
(Make sure that the gear is on the rear side.)



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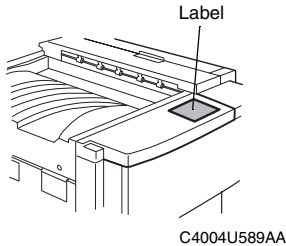
C4025U001AA

6. Swing the fixing lever upward to fix the toner cartridges in position.
* Make sure that the fixing lever is positively swung into position.
7. Using the same procedure, install the toner cartridges for other colors of toner.
8. Take out the filter and install it in position.

NOTE

The filter is packed in the box of a black toner cartridges.

4. Affixing the Label

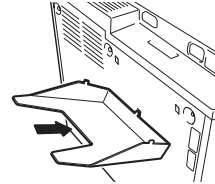


1. Affix the label on the right side of the top of the front door.

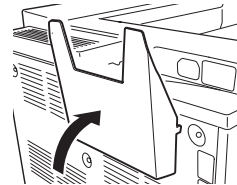
NOTE

Affix the label that corresponds with the installed options.

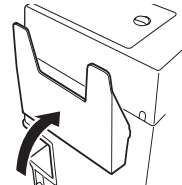
5. Installing the Manual Holder



1. Insert the tab on the bottom of the manual holder into the slot in the printer as shown in the illustration.



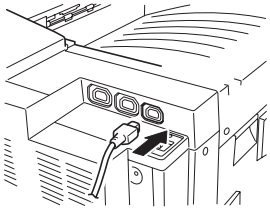
2. Insert the tabs on the left and right sides of the manual holder into the corresponding slots in the printer.



NOTE

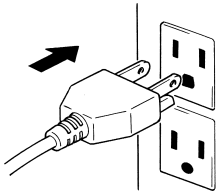
If the optional finisher is used, attach the manual holder to the back of the finisher at the position shown, using the same procedure described above.

6. Connecting the Cables



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1. Make sure that the printer power cord is not plugged into the electrical outlet, and then insert the plug on the end of the power cord into the power cord connector on the printer.



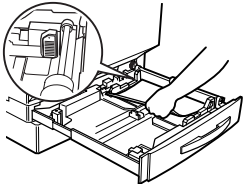
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2. Insert the plug on the other end of the power cord into an electrical outlet.

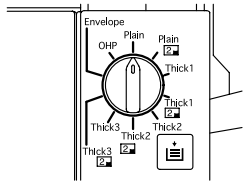
7. Calibrating the Printer

7.1 Loading Test Paper

Load test pattern paper that can be used with X-Rite calibration.



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1. Pull out the paper drawer for Tray 1.
2. Load the prepared A4(C)-size (or Letter(C)-size) plain paper into the paper drawer.
3. Close the paper drawer.
4. Make sure that the media type selection dial on the drawer is turned to the setting for plain paper.
5. From the printer panel, select the size of the test paper loaded into Tray 1.

NOTE

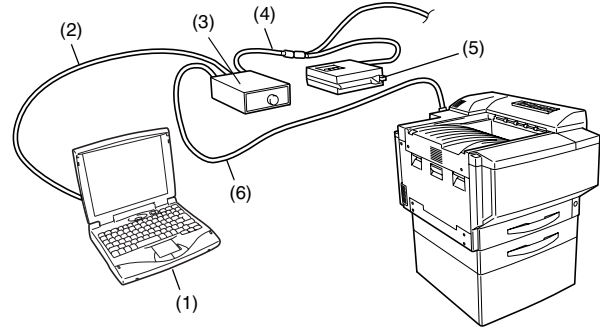
For details on specifying settings, refer to the User Manual.

7.2 Setting Up the Servicing Equipment

Set up the equipment in order to print a test pattern and make the necessary adjustments.

NOTE

Do not turn on any equipment until you are instructed to do so.

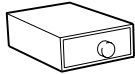


- (1) Notebook PC
Starts the External Panel Controller for adjustment.
- (2) RS232 straight cable
Connects between the Notebook PC and the connector C of the selector
- (3) Selector
Switches between the Notebook PC and the X-Rite, printer
- (4) DTP32 cable
Connects between the X-Rite and the connector A of the selector
- (5) X-Rite (DTP32)
Color Tone Tester
- (6) RS232 straight cable
Connects between the printer and the connector B of the selector

7.3 Setting Up the Selector

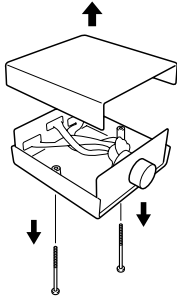
NOTE

Prepare aluminum tape before beginning the setup.



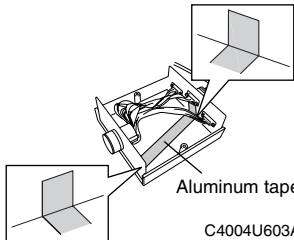
C4004U601AA

1. Remove the selector from its box.



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2. Remove the two screws from the selector, and then remove the upper cover.

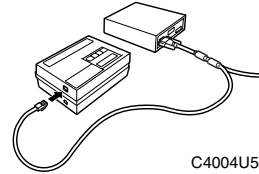


Aluminum tape

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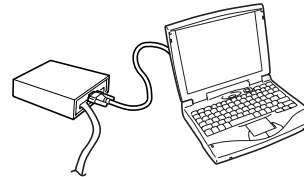
3. Affix aluminum tape to the converter as shown in the illustration.

7.4 Connecting the Equipment Cables



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1. Using a DTP32 cross-cable, connect the I/O port of the X-Rite to port B of the selector.

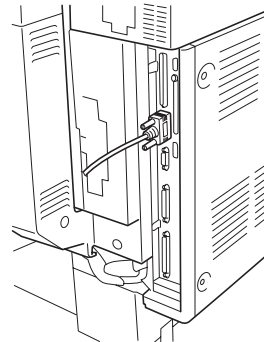


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2. Using the RS232 straight cable (2), connect the COM 1 port of the computer to port C on the selector.

NOTE

When connecting to the COM2 port, set the External Panel Controller port setting to COM2.



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3. Selector and printer connection:
Using a cross-cable, connect port A of the selector to the printer.

7.5 X-Rite Calibration

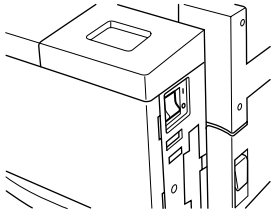
NOTE

- Start up the External Panel Controller on the Notebook PC before turning on the printer.
- If an error message appears, follow the instructions described in the message.
- Do not quit the External Panel Controller while it is being used. If it is quit, restart the printer and the External Panel Controller.

4. Check that the External Panel Controller appears in the computer screen, and then display the Tech. Rep. Mode screen. (For details about displaying the Tech. Rep. Mode screen, refer to the Service Manual.)

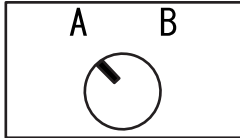
NOTE

If the basic screen does not appear in the External Panel Controller, turn the printer off. Restart the External Panel Controller, and then turn the printer on again.



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1. Start up the External Panel Controller on the Notebook PC.
2. Set the power switch to "I".

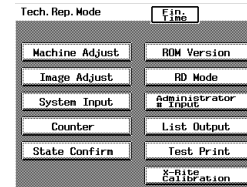


C4004U598AA

3. Make sure that the selector knob is set to "A".

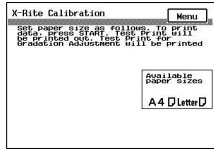


C4581P003CA

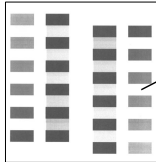


C4581P004CA

5. Click [X-Rite Calibration] in the Tech. Rep. Mode screen.

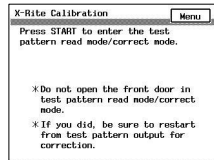


C4004P567CA

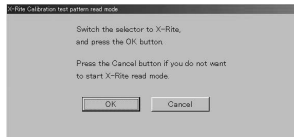


Test patterns

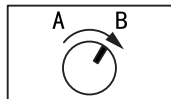
C4004U568AA



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C4004P570CA



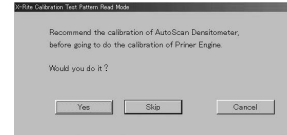
C4004U571AA

- Check the message that appears, and then click the Start key in the External Panel Controller.

Test patterns are printed for the four colors. (Cyan, Magenta, Yellow, Black)

NOTE

- It will take approximately 2 minutes for the test patterns to be printed.
- During printing, do not open the front door. If the front door is opened, restart the procedure from step 3.



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C4004P573CA

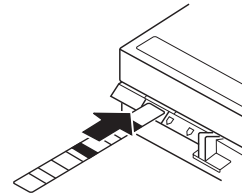
- Check that the dialog box appears, and then click [Yes] in the dialog box.

- When the dialog box appears, the auto-cal strip can be read. Prepare the auto-cal strip.

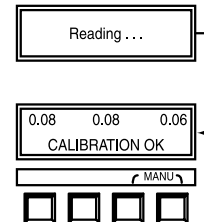
- Insert the auto-cal strip into the X-Rite.

NOTE

Insert the auto-cal strip after "INSERT CAL STRIP" appears on the X-Rite display.



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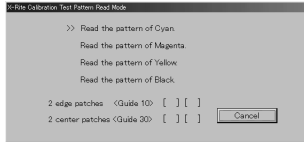


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- Check that the dialog box appears, and then click [OK] in the dialog box.

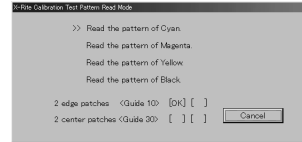
NOTE

If the selector is being used, set the selector knob to "B".



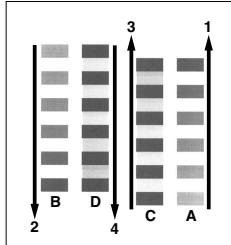
C4004P575CA

12. If the reading was completed correctly, the dialog box shown at the left appears. Prepare the cyan test pattern.



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14. Check that the dialog box appears. If the reading was completed correctly, "OK" is indicated.



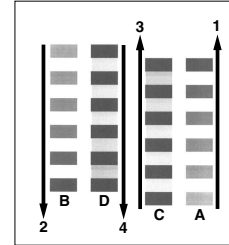
C4004U576AA

13. Prepare the cyan test pattern, set the X-Rite guide to "10", and then feed the pattern in direction "1" to read the row represented by "A".

Align the test pattern with the guide, and insert the pattern into the X-Rite.

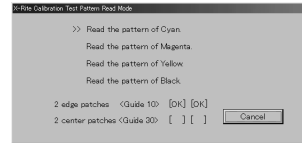
NOTE

- The arrows indicate the direction that the pattern should be fed into the X-Rite.
- The arrows shown in the illustration are not printed on the actual test pattern.



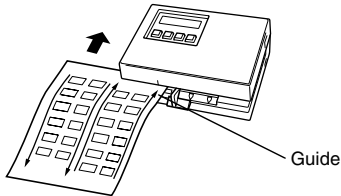
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15. Turn the test pattern around, and then feed it to read the row indicated by "B" in direction "2".

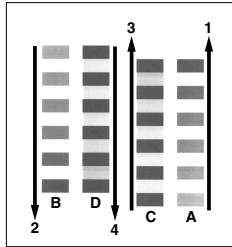


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16. Check that in the dialog box appears. If the reading was completed correctly, a second "OK" is indicated.

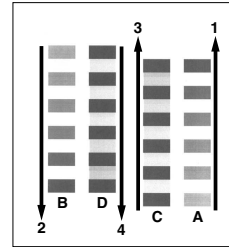


C4581U025AA



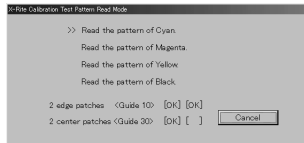
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17. Turn the cyan test pattern to its original orientation, set the X-Rite guide to “30”, and then feed the pattern in direction “3” to read the row represented by “C”.



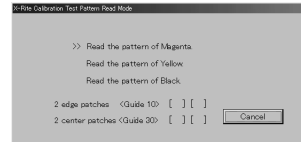
C4004U576AA

19. Turn the test pattern around, and then feed it to read the row indicated by “D” in direction “4”.



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18. Check that in the dialog box appears. If the reading was completed correctly, a third “OK” is indicated.



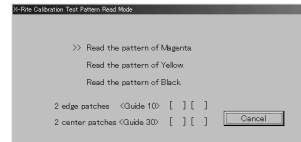
C4004P582CA

20. Check that in the dialog box appears. If the reading was completed correctly, a fourth “OK” is indicated.

21. Check that “>>” appears beside “Read the Pattern of Magenta”.

NOTE

If “>>” appears beside “Read the Pattern of Cyan”, perform the procedure for reading the cyan test pattern again.

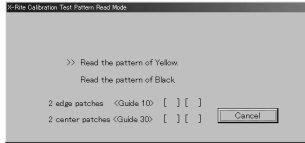


C4004P590CA

22. Prepare the magenta test pattern, and then repeat steps 13 through 20 of the above procedure to read the magenta test pattern with the X-Rite.

NOTE

If “>>” appears beside “Read the Pattern of Magenta”, perform the procedure for reading the magenta test pattern again.



C4004P591CA

23. Prepare the yellow test pattern, and then repeat steps 13 through 20 of the above procedure to read the yellow test pattern with the X-Rite.

NOTE

If ">>" appears beside "Read the Pattern of Yellow", perform the procedure for reading the yellow test pattern again.

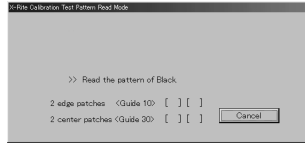


C4004P595CA

25. Check that the dialog box appears, set the selector knob on the selector from "B" to "A", and then click [OK] in the dialog box.

NOTE

Be sure to click [OK] only after the selector knob has been set.

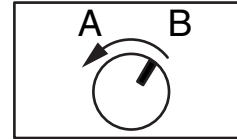


C4004P592CA

24. Prepare the black test pattern, and then repeat steps 13 through 20 of the above procedure to read the black test pattern with the X-Rite.

NOTE

If ">>" appears beside "Read the Pattern of Black", perform the procedure for reading the black test pattern again.



C4004U593AA

26. Click [Fin. Time].

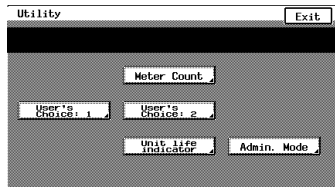
8. Making System Setting

8.1 Checking the Date Setting

1. Check that the External Panel Controller appears in the computer screen.

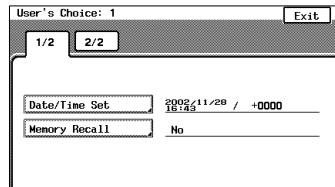


C4581P003CA



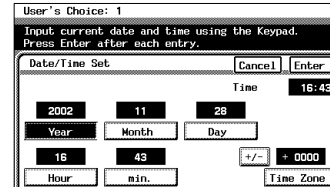
C4581P005CA

2. Click [Utility].
3. Click [User's Choice: 1].



C4581P006CA

4. Select [1/2].



C4581P007CA

5. Check that the current date and time settings are correct. If the settings are not correct, use the keypad in the External Panel Controller to enter the correct date and time in the upper row of the screen.
6. Click [Enter].
7. Click [Exit].
8. Check that the Basic screen appears on the External Panel Controller.

8.2 Specifying the Serial Number

NOTE

Be sure to specify the serial number.

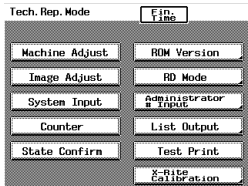
When the serial number is specified, the settings for each unit can be read by the printer. If the serial number is not specified, a correctly adjusted image cannot be printed.

1. Check that the External Panel Controller appears in the computer screen, and then display the Tech. Rep. Mode screen. (For details about displaying the Tech. Rep. Mode screen, refer to the Service Manual.)

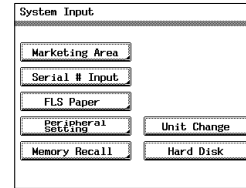


C4581P003CA

2. Click [System Input].



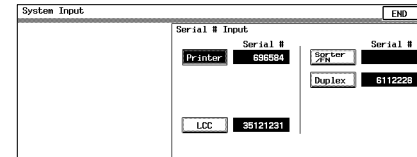
C4581P004CA



C4581P008CA

3. Click [Serial # Input].

4. Make sure that [Printer] is selected. Using the keypad in the External Panel Controller, enter the printer's serial number. Repeat this step to enter the serial numbers for [LCC], [Sorter/FN], and [Duplex].



C4581P009CA

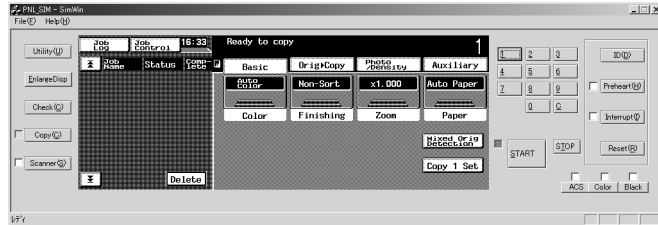
5. Click [END].
6. Click [Fin. Time].
7. Check that the Basic screen appears on the External Panel Controller.

8.3 Specifying Who Performs Replacements

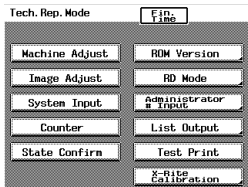
NOTE

The message that appears a unit must be replaced can be changed to indicate that either the user or the service representative must perform the replacement. Select the appropriate settings depending on the type of servicing being performed.

1. Check that the External Panel Controller appears in the computer screen, and then display the Tech. Rep. Mode screen. (For details about displaying the Tech. Rep. Mode screen, refer to the Service Manual.)

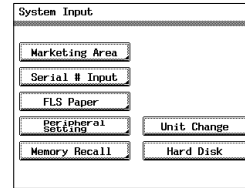


C4581P003CA



C4581P004CA

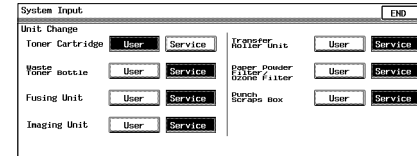
2. Click [System Input].



C4581P008CA

3. Click [Unit Change].

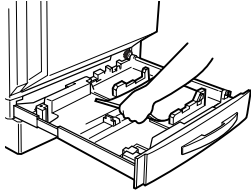
4. Click [User] or [Service] to select whether each unit should be replaced by the user or the service representative.



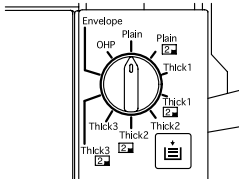
C4581P010CA

5. Click [END].
6. Click [Fin. Time].
7. Check that the Basic screen appears on the External Panel Controller.

8.4 Printing the List



C4004U087AA



4025U050CA

1. Pull out the paper drawer for Tray 1.
2. Load the prepared A4(L)-size (or Letter(L)-size) plain paper into the paper drawer.
3. Close the paper drawer.
4. Make sure that the media type selection dial on the drawer is turned to the setting for plain paper.
5. From the printer panel, select the size of the paper loaded into Tray 1.

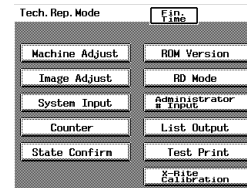
NOTE

For details on specifying settings, refer to the User Manual.

6. Check that the External Panel Controller appears in the computer screen, and then display the Tech. Rep. Mode screen. (For details about displaying the Tech. Rep. Mode screen, refer to the Service Manual.)

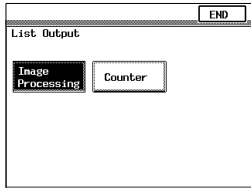


C4581P003CA



C4581P004CA

7. Click [List Output].



C4581P019CA

8. Click [Image Processing].

9. Click the [Start] key in the External Panel Controller. A list of image processing settings and the values of each counter are printed out.

10. Click [End], and then click [Fin. Time].

11. Check that the message displayed in the printer panel changes from "Alert Printing suspended" to "Info".

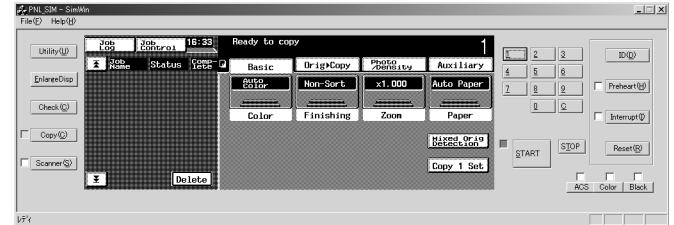
12. Exit the External Panel Controller.

8.5 To set the Energy Save Mode parameter

NOTE

When making settings according to the customer's requests, refer to the procedure described below.

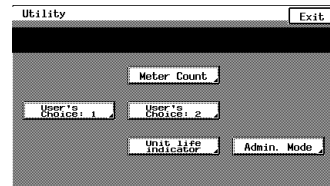
1. Check that the External Panel Controller appears in the computer screen.



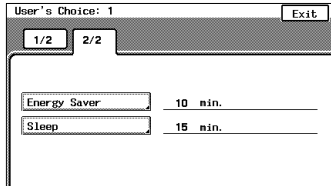
C4581P003CA

2. Click [Utility].

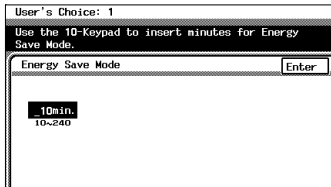
3. Click [User's Choice:1].



C4581P005CA



C4581P011CA



C4581P012CA

4. Select [2/2].
5. Click [Energy Saver]

6. Using the keypad in the External Panel Controller, enter the desired number of minutes, and then click [Enter].

NOTE

Select the [C] (Clear) key to erase the entered number.

7. Click [Exit].
8. Click [Exit].
9. Exit the External Panel Controller.

8.6 To set the Sleep Mode parameter

NOTE

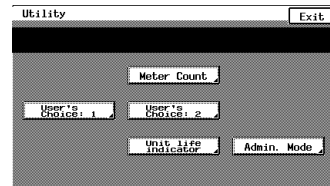
When making settings according to the customer's requests, refer to the procedure described below.

1. Check that the External Panel Controller appears in the computer screen.

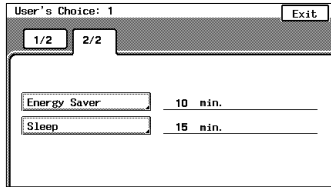


C4581P003CA

2. Click [Utility].
3. Click [User's Choice:1].

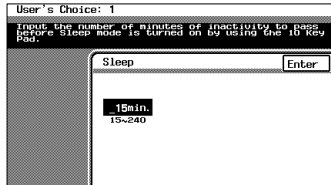


C4581P005CA



C4581P011CA

4. Select [2/2].
5. Click [Sleep]



C4581P013CA

6. Using the keypad in the External Panel Controller, enter the desired number of minutes, and then click [Enter].

NOTE

Select the [C] (Clear) key to erase the entered number.

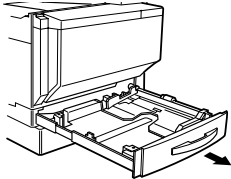
7. Click [Exit].
8. Click [Exit].
9. Exit the External Panel Controller.

9. Loading Paper

NOTE

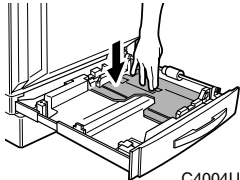
For more details about loading paper, refer to the User Manual.

9.1 Tray 1



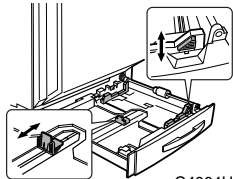
C4004U071AA

1. Prepare paper that meets this product's specifications.
2. Pull out the paper drawer for Tray 1.



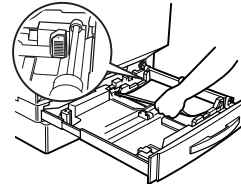
C4004U072AA

3. Press down on the paper-lifting plate until it locks into place.



C4004U073AA

4. Slide the adjustable paper guides to fit the size of paper to be loaded.

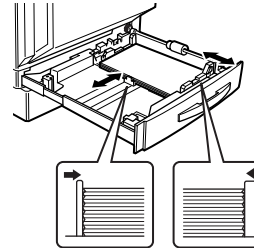


C4004U074AA

5. Load the paper into the drawer so that the front side of the paper (the side facing up when the package was unwrapped) faces up.

NOTE

- Do not load so much paper that the top of the stack is higher than the mark indicating the maximum paper capacity.
- Be careful not to touch the surface of the paper take-up roller with your hands. If the roller has been touched, wipe it with a dry cloth.



C4004U170AA

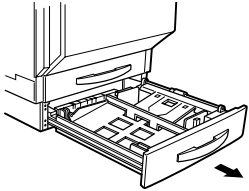
6. Slide the adjustable paper guides against the edges of the paper.

NOTE

Check that the adjustable paper guides are pushed up against the edges of the paper.

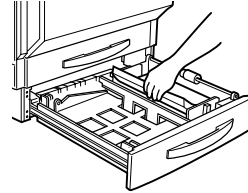
7. Close the paper drawer.
8. Turn the media type selection dial on the drawer to the setting for the type of paper loaded.

9.2 Tray 2



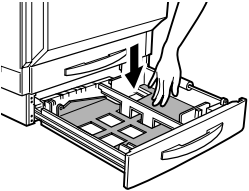
C4004U076AA

1. Prepare paper that meets this product's specifications.
2. Pull out the paper drawer for Tray 2.



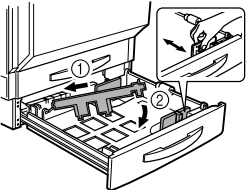
C4004U079AA

3. Press down on the paper-lifting plate until it locks into place.



C4004U077AA

4. Slide the adjustable paper guides to fit the size of paper to be loaded.



C4004U078AA

5. Load the paper into the drawer so that the front side of the paper (the side facing up when the package was unwrapped) faces up.

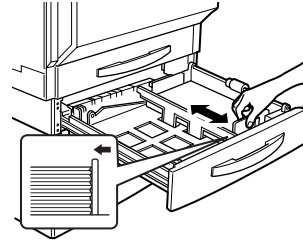
NOTE

- Do not load so much paper that the top of the stack is higher than the mark indicating the maximum paper capacity.
- Be careful not to touch the surface of the paper take-up roller with your hands. If the roller has been touched, wipe it with a dry cloth.

6. Slide the lateral guides against the edges of the paper.

NOTE

Check that the lateral guides are pushed up against the edges of the paper.

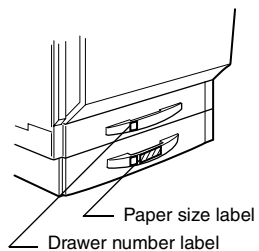


C4004O108AA

7. Close the paper drawer.
8. From the printer panel, select the size of the paper loaded into Tray 2.

NOTE

For details on specifying settings, refer to the User Manual.



C4004U141AA

9. Affix the enclosed paper size label to Tray 2 as shown.
10. Affix the enclosed drawer number label as shown.

10. Adjusting the Options

NOTE

- With the printer, the adjustments of each option are performed with the servicing equipment. Therefore, start up the External Panel Controller, and make the adjustments with the appropriate setting.
- After adjusting the options, restart the printer.

10.1 Checking the Paper Reference Position for PF-118

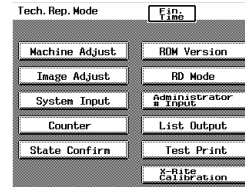
NOTE

- For details on the installing PF-118, refer to its Setup Instructions.
- To adjust PF-118, follow the instructions below.

- Load Letter-size (or A4-size) paper into the paper drawer of the optional paper feed unit.
- Check that the External Panel Controller appears in the computer screen, and then display the Tech. Rep. Mode screen. (For details about displaying the Tech. Rep. Mode screen, refer to the Service Manual.)

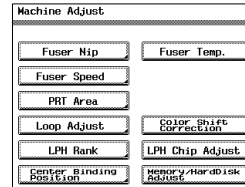


C4581P003CA



C4581P004CA

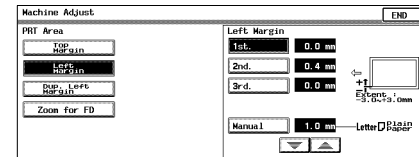
- Click "Machine Adjust".



C4581P014CA

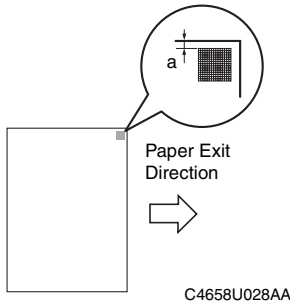
- Click "PRT Area".

- Click "Left Margin".



C4581P015CA

- Select the key for the paper drawer that is to be adjusted, and then click the Start key in the External Panel Controller.
A test page is printed.
- If two optional paper feed units are installed, perform the same check and adjustment procedures in steps 7 and onward also for the fourth drawer.



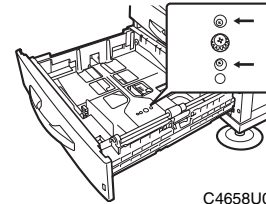
7. Measure margin a from the edge of the paper to the pattern printed in the test page, and then check that the width of the measured margin meets its standard width.

Standard width of the margin (a):
3.0 mm \pm 1.0 mm

If the width of the measured margin does not meet its standard width, follow the procedure in the next section, follow the instructions described below. Position for PF-118, to adjust it.

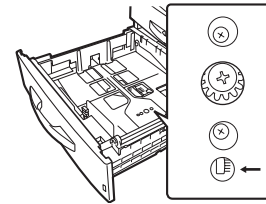
8. Select the paper drawer that you wish to adjust, and then click the up and down arrows in the lower-right corner of the screen to enter the difference between the measured width and the standard width.

9. Print a test page and check the paper reference position.
If the width of the measure margin does not meet its standard width, follow the instructions described below.



10. Open the paper drawer for the cassette that needs to be adjusted, and then remove all of the paper.

11. Loosen the two screws on the guide plate at the bottom of the paper drawer.



12. Adjust the guide plate to the appropriate position on the scale inside the paper drawer.

13. Check that the message displayed in the printer panel changes from "Alert Printing suspended" to "Info".

14. Exit the External Panel Controller.

10.2 Checking and Adjusting the Paper Reference Position for PF-121

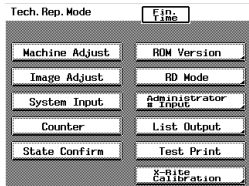
NOTE

- For details on the installing PF-121, refer to its Setup Instructions.
- To adjust PF-121, follow the instructions below.

- Load Letter-size (or A4-size) paper into the paper drawer of the large-capacity cabinet.
- Check that the External Panel Controller appears in the computer screen, and then display the Tech. Rep. Mode screen. (For details about displaying the Tech. Rep. Mode screen, refer to the Service Manual.)

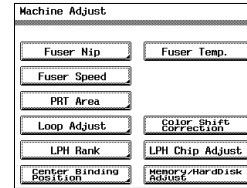


C4581P003CA



C4581P004CA

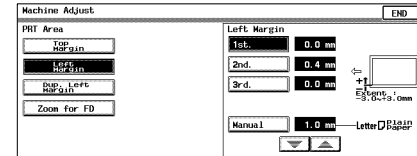
- Click "Machine Adjust".



C4581P014CA

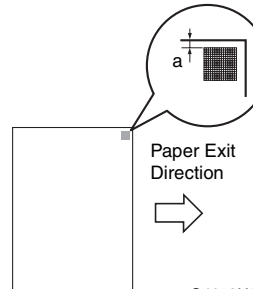
- Click "PRT Area".

- Click "Left Margin".



C4581P015CA

- Select the key for the third paper drawer, and then click the Start key in the External Panel Controller.



C4658U028AA

- Measure the margin from the edge of the paper to the pattern printed in the top-right corner of the test page.

Standard width (a):
3.0 mm ± 1.0 mm

Click the up and down arrows in the lower-right corner of the screen to enter the difference (in millimeters) between the measured width and the standard width.

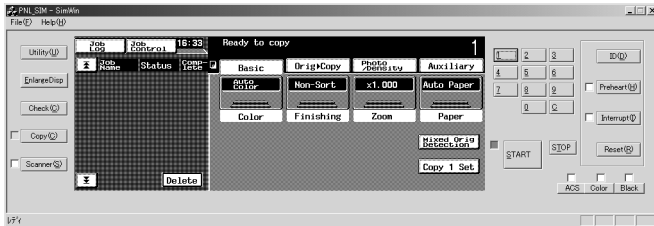
- Print another test page and check the paper reference position.

10.3 Checking and Adjusting the Paper Reference Position for AD-14

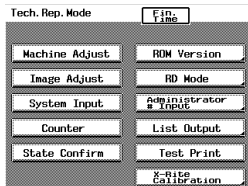
NOTE

- Perform the procedure below after adjusting the paper reference positions for the paper feed unit and the large-capacity cabinet.
- For details on the installing AD-14, refer to its Setup Instructions.
- To adjust AD-14, follow the instructions below.

- Load Letter size (or A4-size) paper into the paper drawer of the all Trays.
- Check that the External Panel Controller appears in the computer screen, and then display the Tech. Rep. Mode screen. (For details about displaying the Tech. Rep. Mode screen, refer to the Service Manual.)

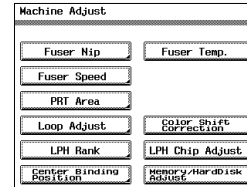


C4581P003CA



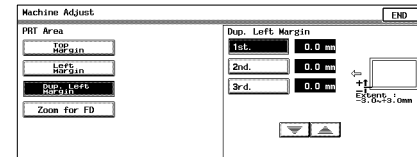
C4581P004CA

- Click "Machine Adjust".



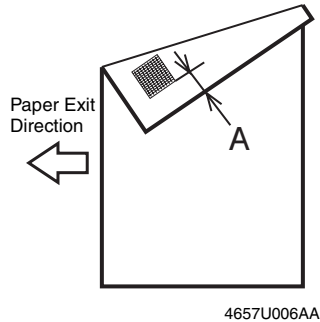
C4581P014CA

- Click "Dup. Left Margin".



C4581P016CA

- Click "1st".
- Click the Start key in the External Panel Controller. A test page is printed.





8. Measure the width of loss for the test pattern printed on the back of the test page.

NOTE

Do not measure from the back of the test pattern.

Standard width (a):
 $3.0 \text{ mm} \pm 1.0 \text{ mm}$

If the measured width of loss does not meet its standard width, click  and  in the lower-right corner of the screen to adjust the width. Print another test page and check the printed image.

9. Adjust the paper reference positions for the 2nd, 3rd and 4th drawers in the same way (by repeating steps 6 through 8).

NOTE

The 4th drawer is only available if two optional paper feed units are installed.

11. Preparing for Installation of the Controller

Before installing the controller, make the following settings.

■ Selecting the “Printer” Setting

Use the External Panel Controller to change the “Priority Device” setting to “Printer”.

[Default setting: Copier]

1. Press the [Utility] key on the External Panel Controller.
2. Click [1/2] on the User' Choice: 2 screen.
3. Click [Printer] for the “Priority Device” setting.

■ Specifying the Administrator Access Code

Use the “Tech. Rep. Mode” of the External Panel Controller to specify the administrator access code, and then inform the customer of the specified access code.

NOTE

The access code is required in order to log into the Administrator mode of PageScope Light.

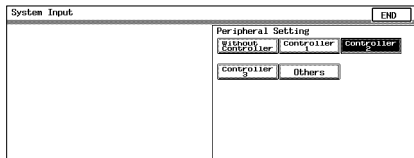
[Default setting: 0000]

■ Specifying the Peripheral Setting

Change the Peripheral setting for the External Panel Controller to “Controller 2”.

[Default setting: Without Controller]

1. Enter the Tech. Rep. Mode of the External Panel Controller.
2. Click [Peripheral Setting] of the System Input.
3. Click [Controller 2].



C4581P017CA

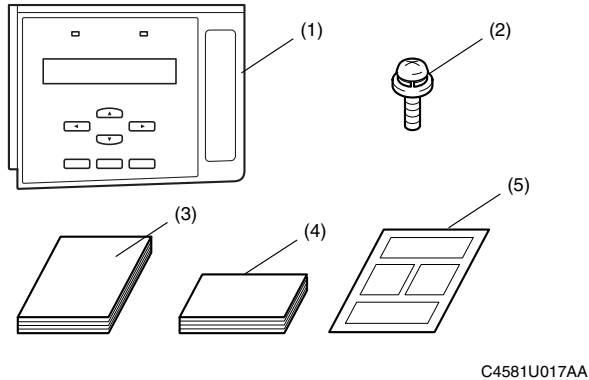
4. Set the power switch of the printer to “O”.
5. Remove the servicing equipment.

12. Installing the Printer Panel

12.1 Checking the Contents of the Printer Panel

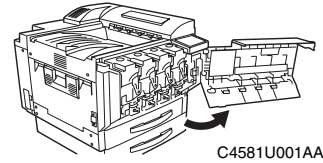
Before starting to set up, check that the following accessories are included with this unit.

- | | |
|---|---|
| (1) Printer panel..... | 1 |
| (2) Circuit board mounting screws..... | 3 |
| (3) User Manual..... | 1 |
| (4) Setup Instructions (this manual)..... | 1 |
| (5) Label | 1 |

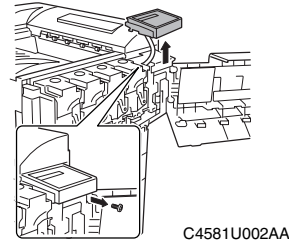


12.2 Install the Printer Panel for the Internal Controller

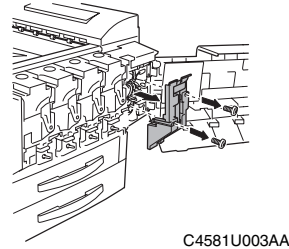
1. Open the front door.

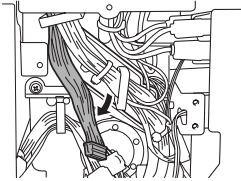


2. Remove the screw and the cover shown in the illustration.



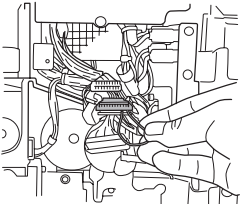
3. Remove the two screws and the cover shown in the illustration.





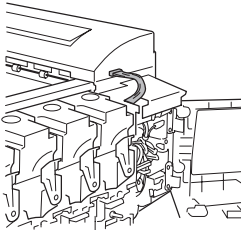
C4004U239AA

4. Pull out the controller connector.



C4581U004AA

5. Remove the connector cover shown in the illustration.

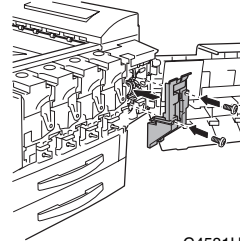


C4581U005AA

6. Pass the controller connector pulled out in step 5 through the hole as shown.

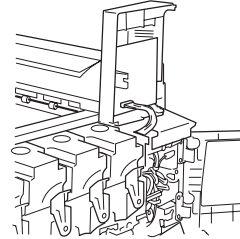
NOTE

Be careful not to disconnect other connectors accidentally.



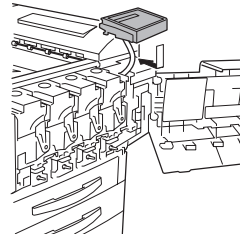
C4581U006AA

7. Install the cover as shown in the illustration.



C4581U007AA

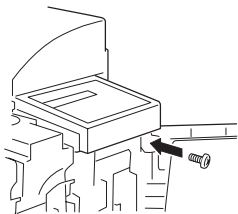
8. Insert the connector mentioned in step 6 into the connector on the back of the printer panel for the internal controller.



C4581U008AA

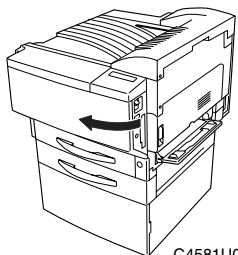
9. Install the printer panel for the internal controller in place of the cover removed in step 2.

10. Secure the printer panel for the internal controller with the screw used to secure the cover.



C4581U009AA

11. Close the front door.



C4581U010AA

13. Installing the Printer Controller

13.1 Operating Environment

The printer controller operates under the following environment.

PCL driver (only for the Windows operating system) and PS driver are available.

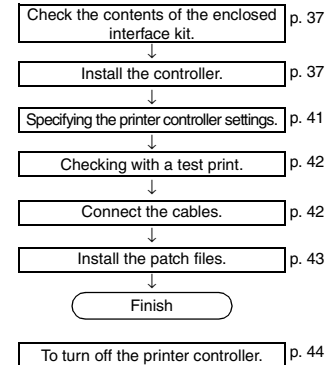
Computer	IBM-compatible PC, Mac OS or PowerPC Processor: i486DX or higher Hard disk free space: 10 MB or more	
Operating System and Memory	Windows 98, Me and NT 4.0 (SP6 or later): 16 MB or more Windows 2000 (SP2 or later) or XP: 128 MB or more Mac OS 8.5 or later: 32 MB or more	
Direct Connection	IEEE1284 (Compatible/Nibble/ECP)	
Network Environment	Standard	Ethernet 10/100BaseT
	Protocol	TCP/IP, AppleTalk, IPX/SPX (NetWare 4.x/5.x)
Software	Microsoft Internet Explorer Ver. 5.5 or later (Windows OS) Ver. 5.0 or later (Mac OS) Netscape Communicator Ver. 4.5 or later	

NOTE

When installing the printer controller onto a printer that has the duplex unit attached, the printer memory must have 512 MB.

13.2 Outline of Setup

Set up the printer controller according to the procedures shown below.

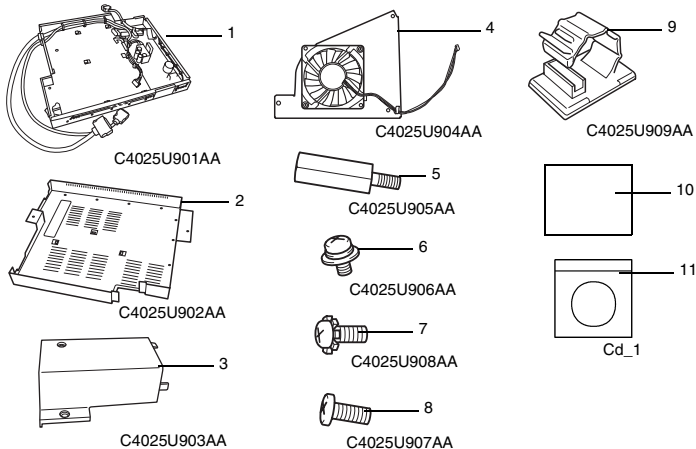


13.3 Checking the Contents of the Enclosed Interface Kit

Before starting to set up, check that the following accessories are included with this unit.

1. Controller mounting plate	1
2. Controller cover	1
3. Power cord cover	1
4. Fan assembly	1
5. Shoulder screws	3
6. Screws (6 for installing the circuit board and 3 for installing the fan)	9
7. Screws (5 for temporary mounting, 11 for installing the controller cover and 2 for installing the controller)	18
8. Screws (for installing the power cord cover)	2
9. CKN clamp	2
10. Installation Guide*	1
11. CD-ROM*	1

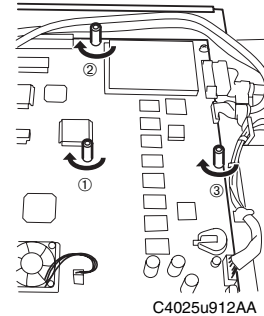
*:Cannot be used with the CF2002/CF3102 printer.



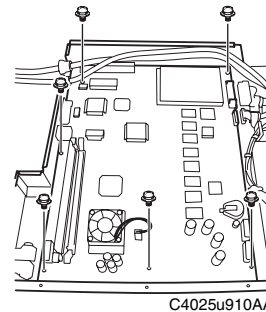
13.4 Installing the Interface Kit and Printer Controller Circuit Board

NOTE

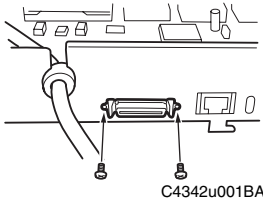
A Phillips screwdriver is needed in order to install the printer controller circuit board.



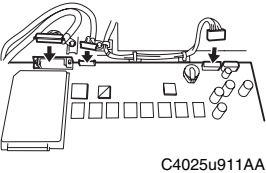
1. Attach the controller circuit board to the controller mounting plate using the three shoulder screws (5) by tightening them in the following order: ①, ②, then ③.



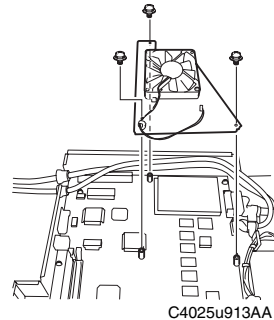
2. Secure the controller circuit board with the six screws (6) for installing the circuit board.



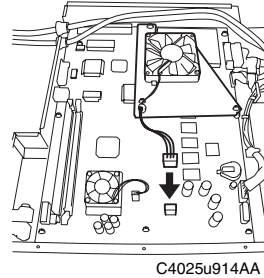
3. Secure the IEEE1284 connector to the controller mounting plate using the two screws enclosed with the controller circuit board.



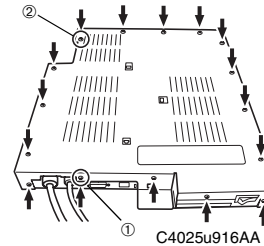
4. Connect the three connectors.



5. Install the fan assembly on top of the shoulder screws, and then secure it using the three screws (6) for installing the fan.

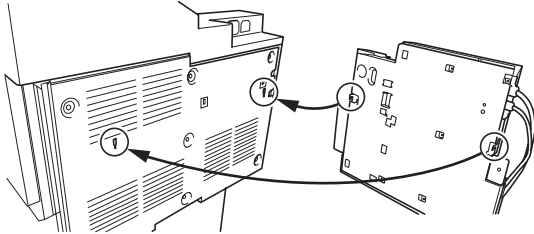


6. Connect the fan connector to the controller circuit board.



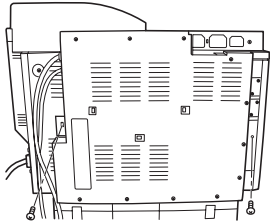
7. Install the controller cover, and then secure it using the 16 screws (7) for installing the cover. Tighten the screw indicated by ① first, and then tighten the screw indicated by ②. The remaining screws can be tightened in any order.

8. Hook the two tabs at the back of the interface kit into the notches on the back of the printer.



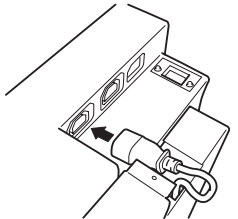
C4025u917AA

9. Secure the interface kit with the two screws (7) for installing the controller.



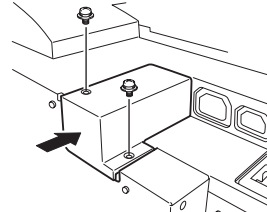
C4025u918AA

10. Connect the controller power cord to the printer.



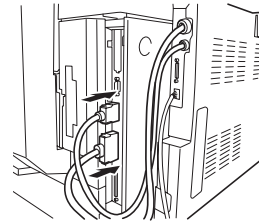
C4025u919AA

11. Install the power cord cover, and then secure it using the 2 screws (8) for installing the power cord cover.



C4025u920AA

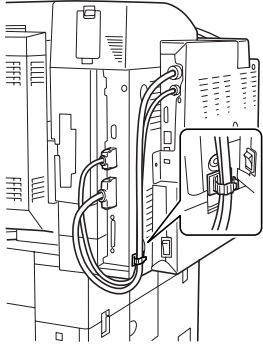
12. Connect the printer cable to the printer.



C4025u921AA

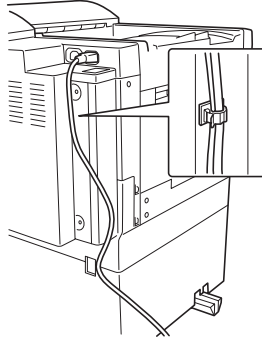
13. Attach a CKN clamp at the lower-left corner of the back of the printer, and then pass the printer cable through the clamp. Attach a CKN clamp to the right side of the interface kit, and then pass the power cord through the clamp.

Printer cable guide



C4581U013AA

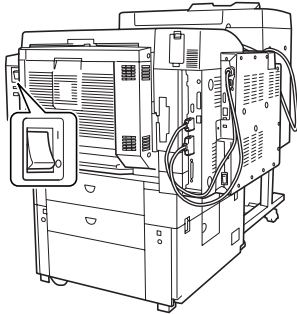
Power cord guide



C4581U026AA

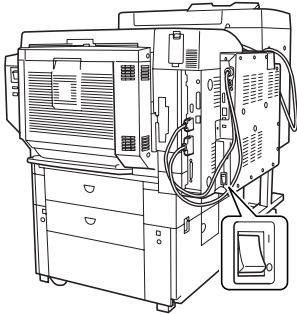
14. Specifying the Printer Controller Settings

From the printer, specify the necessary settings for using the controller.



C4581O014AA

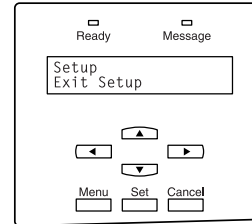
1. Turn on the printer.



C4581O015AA

2. Turn on the printer controller.

3. After several minutes, a printer panel for selecting the language appears. Select the desired language.
4. Select the appropriate Market Region setting.



C4581U031AA

5. Display the Setup Mode screen in the printer panel, press ▲ or ▼ until "Server Setup" appears, and then press the [Set] key.
6. Press the [Menu] key in the printer panel. When "Save Changes" appears, select "Yes", and then press the [Set] key.
7. In the same way, select "Network Setup", and then press the [Set] key. Select "Protocol Setup", "TCP/IP Setup", then "Ethernet Setup", and then set "TCP/IP-Ethernet" to "Yes" and "Enable AutoIP Config" to "No".
8. Specify settings for the following.

IP address	: Controller IP address
Subnet Mask	: Subnet mask for the connected network
Default Gateway	: IP address of the default gateway

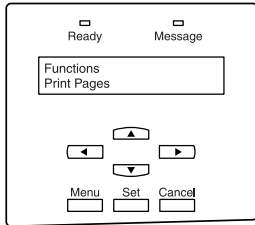
NOTE

First, check with your network administrator for the settings that should be entered.

9. After selecting the necessary settings, select "Exit TCP/IP Setup", "Exit Protocol Setup", then "Exit Network Setup". Display "Save Changes", and then press the [Set] key.
10. Press ▲ or ▼ until "Printer Setup" appears, and then press the [Set] key.
11. Press the [Menu] key in the printer panel. When "Save Changes" appears, select "Yes", and then press the [Set] key.
12. When "Exit Setup" appears, press the [Set] key to restart the printer controller.

15. Checking With a Test Print

After setting up the controller, print the Configuration page to check that the controller is operating correctly.



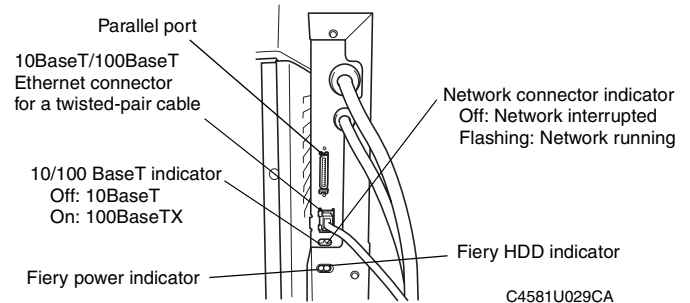
C4004O596CA

1. Press the [Menu] key on the printer panel.
2. Touch the selection button corresponding to [Print Pages].
The names of the pages that can be printed are displayed.
3. Touch the selection button corresponding to [Configuration].

16. Connecting the Cables

Use the IEEE1284 (Centronics), or network cable (Category 5 or 5E).

■ LED descriptions



C4581U029CA

17. Installing the Patch Files

■ Objective

The controller is recognized as Minolta printer in a network management tool (EX. PageScope Net Care) at the time of use. In addition, the Minolta logo appears at the top of the PageScope Light page.

NOTE

This patch file is not provided on the CD-ROM supplied with the controller; it must be acquired separately.

■ Patch file installation procedure

1. Check that the computer can communicate with the controller through TCP/IP.
2. Install the Command Work Station Utility from the CD-ROM included with the controller on the computer.

NOTE

This software can only be used with the Windows operating system.

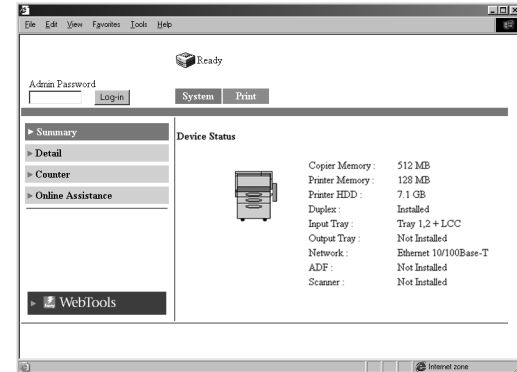
3. Start up the Command Work Station.
4. Select the controller from Available Servers, and then click [Add].
5. Login with administrator authorization.
6. Select the Job from Import in the File Menu.
7. In the Select File to Import dialog, select the patch file, select [31 C-M] in the Logical Printer, and then click [Import].
8. In order to apply the patch file settings, the controller must be rebooted.
After waiting 60 seconds or more, restart the controller.
9. When PageScope Light is accessed, check that the Minolta logo appears on the page, as shown below.

To access PageScope Light:

Enter the IP address of your controller into the Address box of the Web browser.
(Example) <http://IP address of the controller/>

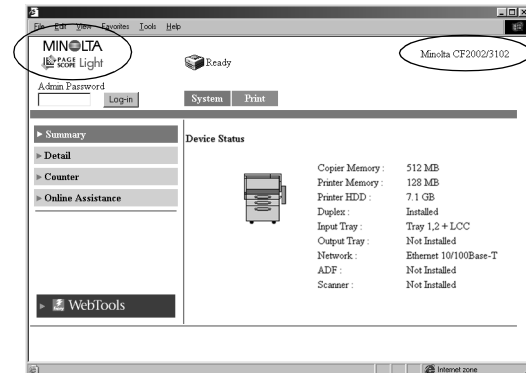
The PageScope Light page appears as shown below before the patch file is installed.

Before installing the patch file



C4581P018CA

After installing the patch file

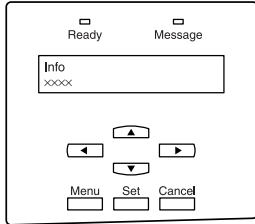


C4581P101CA

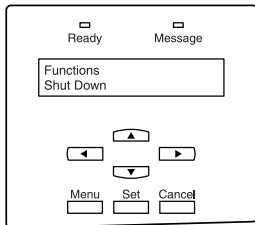
18. To turn off the printer controller

NOTE

If the printer controller is turned off in a manner other than described in "To turn off the printer controller", the controller may be damaged.



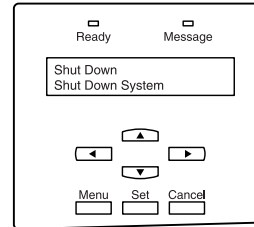
C4004O583CA



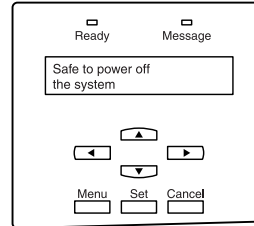
C4004O586CA

1. Check that "Info XXXX" appears in the display, and then press the [Menu] key in the printer panel.

2. Press ▲ or ▼ until "Functions Shut Down" appears, and then press the [Set] key.



C4004O587CA



C4004O588CA

3. Press ▼ on ▲ to display "Shut Down System", and then press the [Set] key to begin shutting down the system.
4. When the system has finished shutting down, "Safe to power off the system" appears.
5. Set the power switch of the printer controller to "O" to turn off the printer controller.

19. Setting the User Environment (Administrator Operations volume)

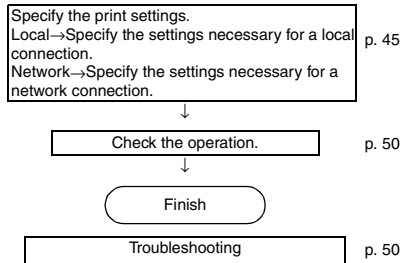
The following procedures are basically for administrators. Refer to the following only if a request for setup is received from the user.

NOTE

The network and computer environment for the user is usually controlled by a specialized administrator. Before performing the setup procedure described below, first obtain approval from the administrator, and then perform the operations under the administrators supervision.

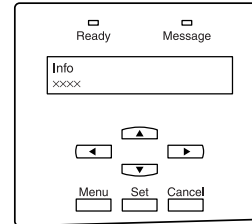
19.1 Specifying User's Choice Settings

Set up the printer controller according to the procedures shown below.



19.2 Entering Setup Mode on the Controller

In order to select functions, the "Functions" menu must be selected.

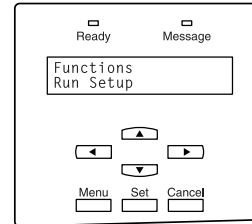


C4004O583CA

1. Check that "Info xxxx" appears in the display, and then press the [Menu] key in the printer panel.

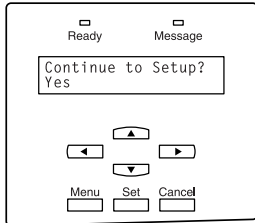
NOTE

"xxxx" indicates the "Server Name".



C4581U030AA

2. Press ▲ or ▼ until "Run Setup" appears, and then press the [Set] key.



C4581U015AA

- When "Continue to Setup?" appears, select "Yes", and then press the [Set] key.

19.3 Common Settings for Controllers

(The recommended settings are underlined and the settings within [] are the default settings.)

Server Setup	Server Name	Enter the server name.
Printer Setup	Publish Direct	<u>Yes</u> /No [Yes]
	Publish Print Queue	<u>Yes</u> /No [Yes]
	Publish Hold Queue	<u>Yes</u> /No [Yes]

19.4 Settings Required for a Local Connection (IEEE1284 (Centronics))

Controller settings

(The recommended settings are underlined and the settings within [] are the default settings.)

Network Setup	Port Setup > Parallel Port Setup	Enable Parallel Port	<u>Yes</u> /No [No]
		Port Timeout	5-60 [5]
		Ignore EOF	<u>Yes</u> /No [Yes]

PC Settings

- Start up the Add Printer Wizard, and then click [Next].
- In the dialog where the printer connection can be selected, select [Local printer], and then click [Next].
- In the dialog where the manufacturer and model of the printer can be selected, click [Have Disk].
- Click [Browse], select the setting file from the corresponding folder on the CD-ROM, and then click [OK].
- Select the model of the printer from the printer list, and then click [Next].
- Select the LPT1 port, and then click [Next].
- When [Next] is clicked, installation of the driver will begin.
- Specify the printer name and whether the printer will be the default printer and whether a test print will be printed.

19.5 Specifying the Settings Necessary for Printing on a Network

The following procedure describes how to specify the settings necessary for printing on a network.

Follow the procedure described below to specify the settings necessary for printing on a network.

1. Refer to [Settings Required for a Local Connection] and install the printer driver. At this time, specify the LPT1 port as the printer port.

NOTE

Do not print a test page yet.

Perform the test print after the network connection settings have been specified.

2. Follow the procedure below to specify the settings necessary for printing on a network. Change the printer port from the one specified when the printer driver was installed in step 1 to a port for a network connection, and then change any controller settings as necessary.

NOTE

For IPP printing and NetWare printing, begin from the time when the printer driver was added.

■ Network Printing on a Computer Running Windows

Procedure for connecting a network that can be selected for the various Windows operating systems

The procedure for specifying settings differs depending on the output procedure (LPR, Windows printing or IPP).

Follow the appropriate connection procedure for the environment that you are using.

	Windows 98/Me	Windows NT 4.0	Windows 2000	Windows XP	Protocol Used
LPR		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	TCP/IP
SMB	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
IPP			<input type="radio"/>	<input type="radio"/>	

■ SMB printing

Controller settings

(The recommended settings are underlined and the settings within [] are the default settings.)

Network Setup	Protocol Setup > TCP/IP Setup > Ethernet Setup	TCP/IP-Ethernet	<u>Yes/No</u> [Yes]
		Enable AutoIP Config	<u>Yes/No</u> [Yes]
		IP Address	Enter the IP address.
		Subnet Mask	Enter the subnet mask.
		Gateway Address	Enter the IP address of the gateway.
	Service Setup > Windows Setup	Enable Windows Printing	<u>Yes/No</u> [Yes]
		Choose Domain	Select from list/ Enter manually [Select from list]

PC Settings

- From the window displayed by clicking the Start button, pointing to [Settings], then clicking [Printers], select the printer. Then, from the menu that appears by right-clicking the printer, click [Properties].

For Windows 98 and Me:

1. Click the Details tab, and then click [Add Port...].
2. Select [Network], and then click [Browse...].
3. From the console tree showing the network configuration, select the printer with the server name registered in the controller.
4. Click [Close] to close the dialog.

For Windows NT 4.0, 2000 and XP:

1. Click the Ports tab, click [Add Port], double-click [Local Port], and then type in [\\server_name\print].
2. Click [Close] to close the dialog.

■ LPD (LPR) printing

Controller settings

(The recommended settings are underlined and the settings within [] are the default settings.)

Network Setup	Protocol Setup > TCP/IP Setup > Ethernet Setup	TCP/IP-Ethernet	<u>Yes/No</u> [Yes]
		Enable AutoIP Config	<u>Yes/No</u> [Yes]
		IP Address	Enter the IP address.
		Subnet Mask	Enter the subnet mask.
		Gateway Address	Enter the IP address of the gateway.
	Service Setup > LPD Setup	Enable LPD	<u>Yes/No</u> [Yes]

PC Settings

For Windows NT 4.0:

1. Install the Microsoft TCP/IP Printing service.
 - Open Control Panel, and then double-click the Network icon.
 - In the Network dialog, click the Services tab, and then click [Add...].
 - Select [Microsoft TCP/IP Printing], and then click [OK].
2. Display the printer properties.
3. Click the Ports tab, and then click [Add Port...]. The Printer Ports dialog appears.
4. From the Available Printer Ports, select [LPR Port], and then click [New Ports].
5. In the Add LPR Compatible Printer dialog, type the IP address of the controller into the Name or address of server providing lpd field.
6. Type [print] or [hold] into the Name of printer or print queue on that server field.
7. Specify the printer name and whether the printer will be the default printer and whether a test print will be printed.
8. Click [Close] to close the dialog.

For Windows 2000 and XP:

1. Display the printer properties.
2. Click the Ports tab, and then click [Add Port...]. The Printer Ports dialog appears.
3. From the Available port types list, select [Standard TCP/IP Port], and then click [New Port...].

4. Type the IP address of the controller into the field.
5. Select [Custom], and then click [Setting].
6. Select [LPR].
7. Type [print] or [hold] into the field, and then click [OK].
8. Click [Next], then [Finish] to close the dialog.

■ IPP printing

Controller settings

(The recommended settings are underlined and the settings within [] are the default settings.)

Network Setup	Service Setup > IPP Setup	Enable IPP	<u>Yes/No</u> [Yes]
---------------	------------------------------	------------	---------------------

PC Settings

1. Start up the Add Printer Wizard, and then select [Network Printer].
2. In the Locate Your Printer dialog, select [Connect to a printer on the Internet or on your intranet].
3. Type [http://printer_IP_address/ipp/print] into the URL field.
4. In the dialog where the manufacturer and model of the printer can be selected, click [Have Disk].
5. Click [Browse], select the corresponding folder on the CD-ROM, and then click [OK].
6. Select the model of the printer from the printer list, and then click [Next].
7. Click [Finish] to exit the Add Printer Wizard.
8. Specify the printer name and whether the printer will be the default printer and whether a test print will be printed.

■ Network Printing on a Macintosh Computer

AppleTalk printing

Controller settings

(The recommended settings are underlined and the settings within [] are the default settings.)

Network Setup	Protocol Setup > AppleTalk Setup	Enable AppleTalk	<u>Yes</u> /No [Yes]
		AppleTalk Zone	Select the zone from the list.

Settings for a Macintosh computer

1. Double-click the AdobePS Installer icon.
2. After installation is finished, restart the computer.
3. Select Chooser from the Apple menu.
4. Click the AdobePS icon. (Make sure that AppleTalk is set to [Active].)
5. If zones are listed, select the correct AppleTalk zone.
6. From the Select a PostScript Printer list, select the type of connection used by the controller, and then click [Create].
7. Select the PPD file for the model of the printer that was installed, and then click [OK].
8. Close the Chooser.

■ NetWare environment

Settings for NetWare printing

The controller supports the following NetWare environments.

NetWare Version	Service	Settings That Must Be Specified From the Controller Operation Screen
Network 4.X	PServer	NDS, Pserver name, NDS context/Tree
Network 5.X	PServer/NDPSPrinter	NDS, Pserver name, NDS context/Tree (Only LPR printing with TCP/IP is supported in NDPS. Specify the TCP/IP settings.)

Controller settings

(Select the necessary settings according to the user's environment.)

Network Setup	Protocol Setup > IPX/SPX Setup		IPX Auto Frame Type	Yes
			Frame Setup	Ethernet 802.2 Ethernet 802.3 Ethernet II Ethernet SNAP
	Service Setup > PServer Setup	Enable Pserver		No
		NDS Setup	Enable NDS	No
			Select NDS Navigate to the Print Server	Select the tree. Select the printer server.
		Bindery Setup	Add File Server, Navigate to the Print Server	Select the tree. Select the printer server.
	NetWare Server Poll Interval (sec)			1-3600 [15]

PC Settings

1. Start up the Add Printer Wizard, and then select [Network Printer].
2. Display the printer on the network (click [Browse] for Windows 98 and Me, or click [Next] for Windows 2000 and XP), and then select the queue name (name of NDPS Printer Agent for NDPS) for the printer registered with the server.
3. In the dialog where the manufacturer and model of the printer can be selected, click [Have Disk].
4. Click [Browse], select the corresponding folder on the CD-ROM, and then click [OK].
5. Select the model of the printer from the printer list, and then click [Next].
6. Follow the instructions of the Add Printer Wizard to finish installing the driver.

20. Checking Operation After Specifying Settings

After the setup procedures for the controller and user environment are finished, check the operation to ensure that the setup has been performed correctly.

Performing a test print from client PC

This operation is performed to check if the settings for the connection with the computer are correct.

1. In the windows displayed by clicking the Start button, pointing to [Settings], then clicking [Printers], right-click the printer, and then click [Properties].
2. Click the General tab, and then click [Print Test Page].

If the test page cannot be printed, refer to [Installation Troubleshooting].

21. Installation Troubleshooting

When printing cannot be carried out over a network:

	Check		Possible Cause	Action
1	Does the print job appear in the touch panel of the copier?	Yes	A printer error (out of paper, out of toner, etc.) occurred.	Correct the cause of the error.
		No	The data has not yet been received.	Go to 2.
2	Is there a response from pinging sent from the computer to the controller?	Yes	The print destination port setting is incorrect.	Specify the correct port.
			The computer is temporarily malfunctioning.	Restart the computer.
			The printer driver is not installed correctly.	Follow the procedure to correctly uninstall, then re-install the printer driver.
		No	The controller circuit board is temporarily malfunctioning.	Restart the controller.
			The network cable is disconnected or the relay device is faulty.	Correctly connect the cable, or restart or replace the relay device.
			The IP address and/or subnet mask is incorrectly specified.	Specify the correct IP address and subnet mask.