

CompactFlash[®] Instructions



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Introduction

Important!

Your printer's firmware must be version 1.0.52 or higher for the CompactFlash to work properly.

To determine the firmware version you have, print the System Settings list:

1. Press the **<MENU>** button to enter the printer menu
2. Press the **<▼>** button one or more times until you see "Report/List" on the second line of the display.
3. Press the **<▶>** button once to enter the Report/List sub menu.
4. Press the **<▼>** button repeatedly until you see "System Settings" on the second line of the display.
5. Press the **<▶>** button once to select System Settings.
6. Press the **<FEED/SELECT>** button.
The System Settings list prints.
7. Check the version number beside "Standard ROM" under "ROM" in the left column.

System Settings

Machine Information

| | |
|---------------|----------|
| Product Name | B6200n |
| Serial Number | 10145 |
| Product Code | TL400078 |

ROM

| | |
|-------------------|-------------|
| Standard ROM | Ver. 1.0.36 |
| Output Device ROM | Ver. 3.4.8 |

8. Press the **<MENU>** button to exit the printer menu.
"Ready to print" appears on the display.

If you need to upgrade your firmware, have your System Settings list printout handy and call 1-800-OKI-DATA (1-800-654-3282).

Features

- Use custom fonts and forms for documents printed from legacy systems.
- Apply overlays for invoices, shipping tickets and other documents in non-Windows environments.
- Manage and modify font lists and forms across multiple printers.

Storable Font Formats

- PCL bitmap fonts: .hpp, .sfp, .sfl, .sfs
- True Type fonts: .ttf, .otf

Storable Forms (Macros / Overlays)

Use common PostScript® or PCL® forms generated by third party electronic forms software such as Cardinal's PlanetPress Suite, Optio MedEx™, Verity® LiquidOffice™, Microsoft® InfoPath® (XDocs), etc.

The following print file formats are storable:

- .pcl, .prn, .ps

Overview

Downloading Fonts and Forms

The CompactFlash module can be used to store fonts and electronic forms, downloaded in the following ways:

- **Font and Form Downloader Utility (see page 13)**
Use the Font and Form Downloader utility on the CD supplied with the CompactFlash.
- **OkiWebRemote (see page 21)**
Use the OkiWebRemote web page built into the printer and accessed through your internet browser.

Printing Using Fonts and Forms

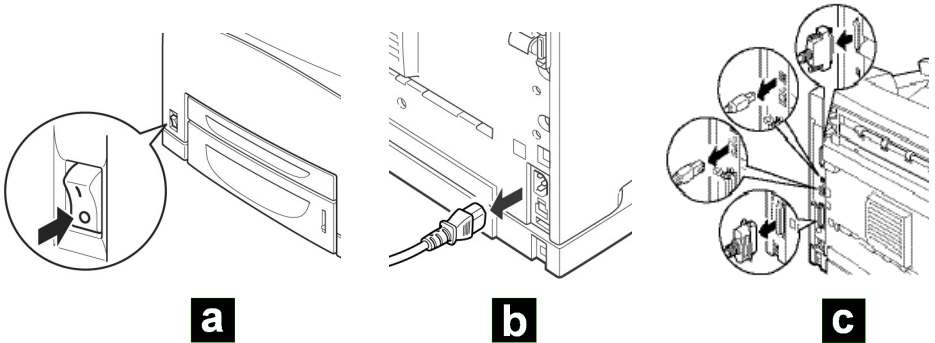
Once the fonts and/or forms are stored on the CompactFlash, PJL and PCL5 commands are used to engage them when printing (see page 25).

Installing the CompactFlash

Careful!

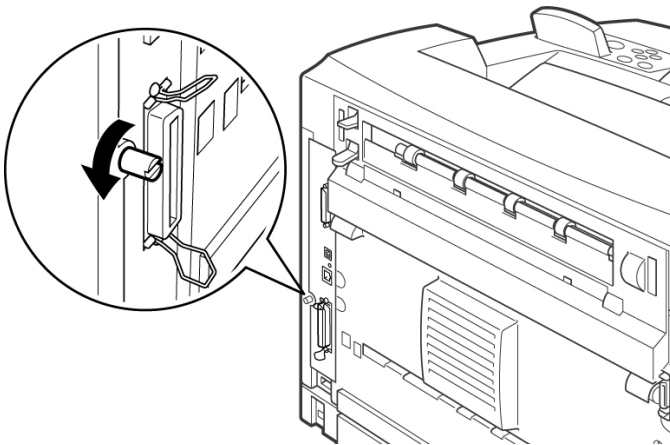
To protect the CompactFlash, please keep it in its packaging until you're ready to install it.

1. Before continuing:

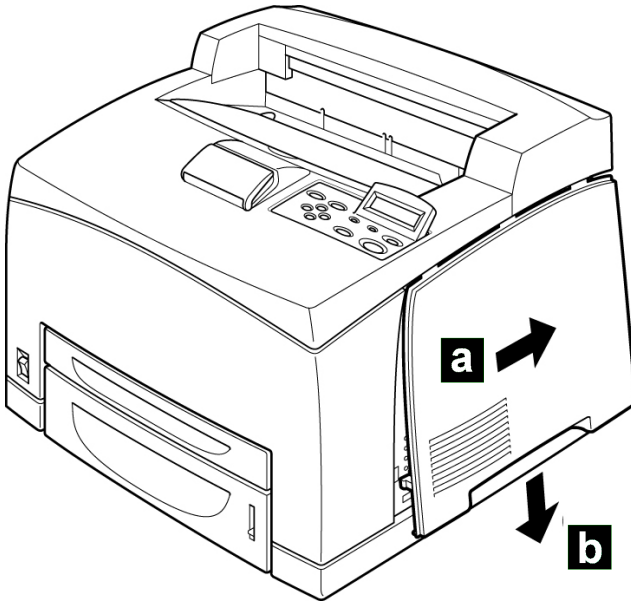


- a. Turn off the printer.
- b. Remove the power cord.
- c. Remove the interface cable.

2. Loosen the thumbscrew at the back of the right side cover.

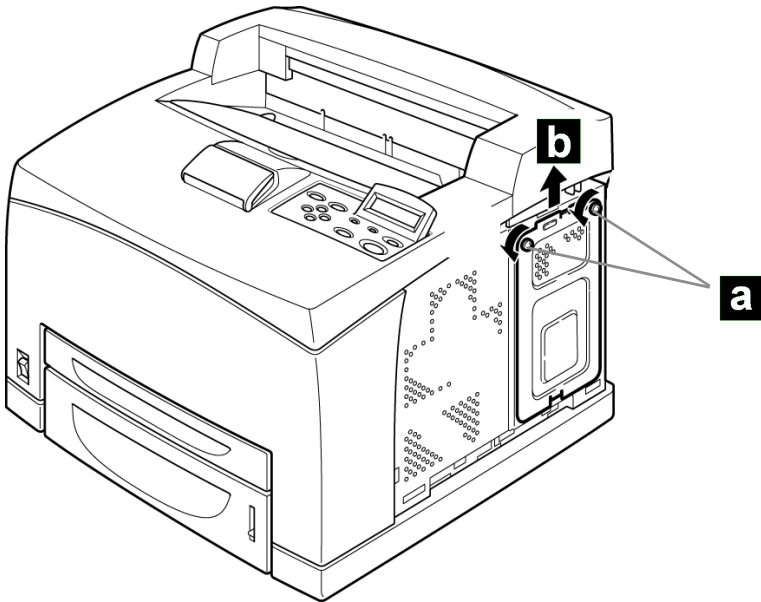


3. Remove the right side cover:



- a. Slide the cover toward the rear of the printer.
- b. Slide the cover down to remove it.

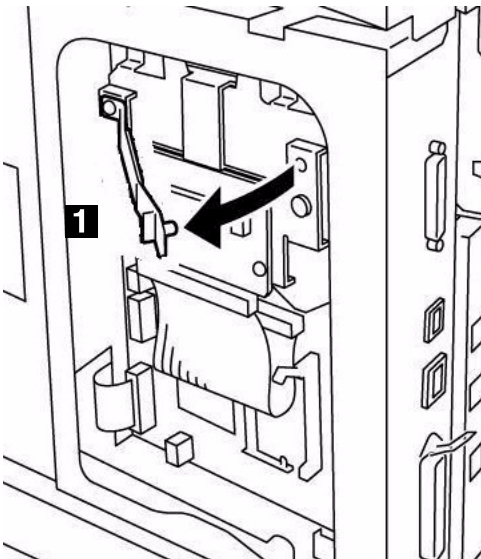
4. Remove the bracket:



a. Loosen the two screws at the top.

b. Pull up to remove.

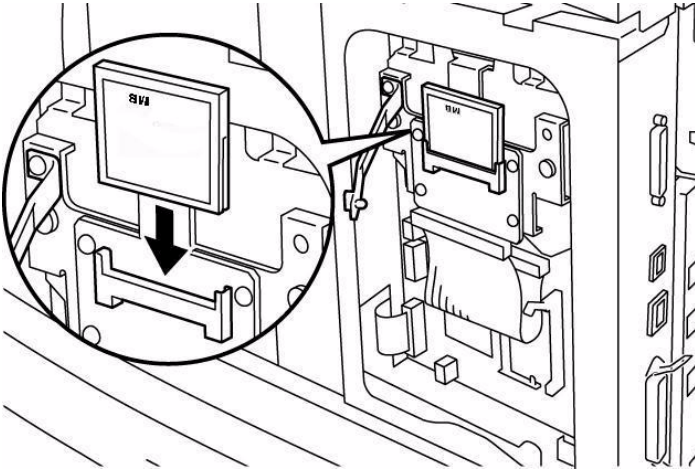
5. Unfasten and swing out the retaining strap (1).



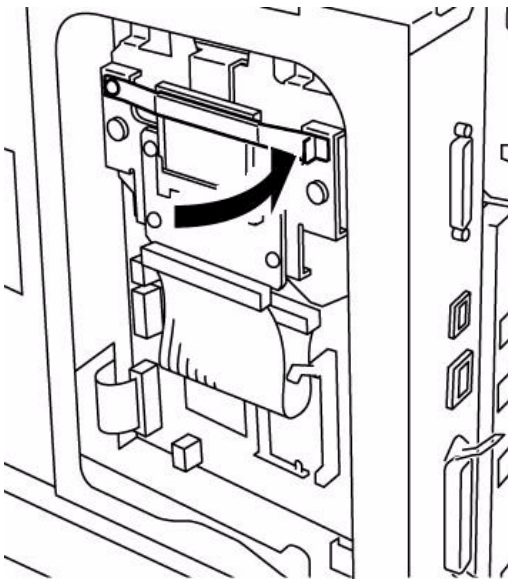
Alert!

To be on the safe side, please ground yourself (touch metal) before handling the CompactFlash.

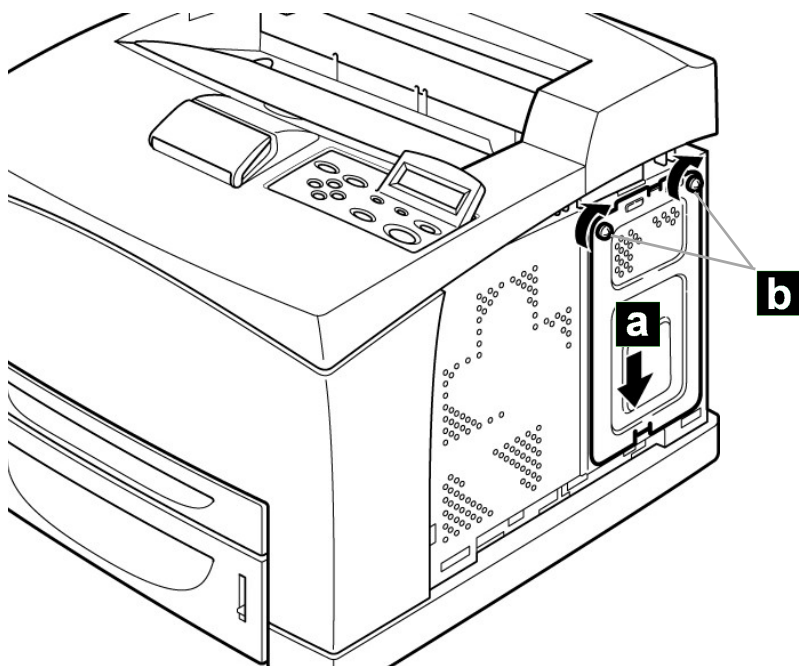
- 6. Remove the CompactFlash from its packaging and insert it in the slot.



- 7. Refasten the retaining strap.

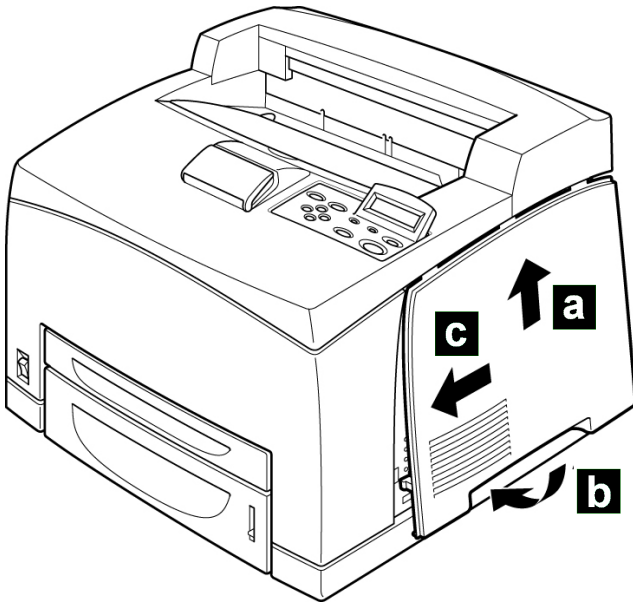


8. Replace the metal bracket:

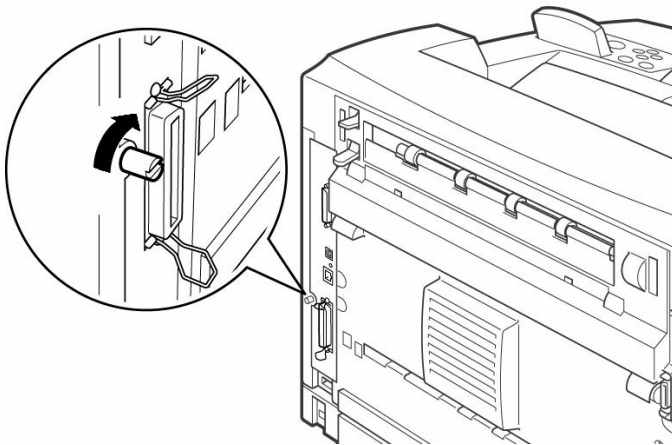


- a. Slide it down into the printer.
- b. Tighten the two screws at the top.

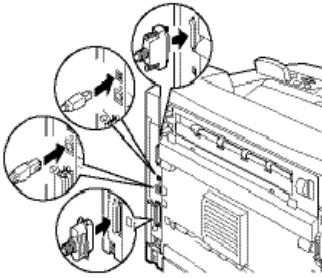
9. Reinstall the right side cover:



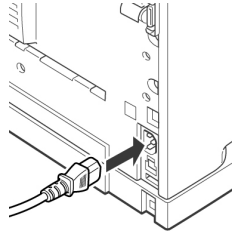
- a. Slide the tabs on the top of the cover into the channel on the printer.
- b. Fit the tabs at the bottom of the cover into the printer.
- c. Slide the cover firmly towards the front of the printer.
- d. Tighten the thumbscrew at the back of the printer.



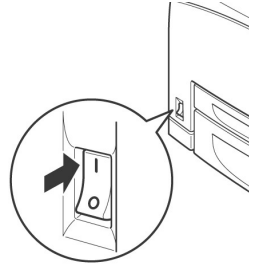
10. Finish the installation:



a



b



c

- a. Reattach the interface cord.
- b. Reattach the power cable.
- c. Turn on the printer.

11. Generate a "System Settings List" report to confirm proper installation:

- a. Press the **<MENU>** button to enter the printer menu
- b. Press the **<▼>** button one or more times until you see "Report/List" on the second line of the display.
- c. Press the **<▶>** button once to enter the Report/List sub menu.
- d. Press the **<▼>** button repeatedly until you see "System Settings" on the second line of the display.
- e. Press the **<▶>** button once to select System Settings.
- f. Press the **<FEED/SELECT>** button.
The System Settings List prints.
- g. Check for "Compact Flash" under "Machine Configuration" in the left column.
- h. Press the **<MENU>** button to exit the printer menu.
"Ready to print" appears on the display.

Downloading Fonts and Forms

The Font and Form Downloader Utility

Use the Font and Form Downloader utility to download PCL fonts and forms.

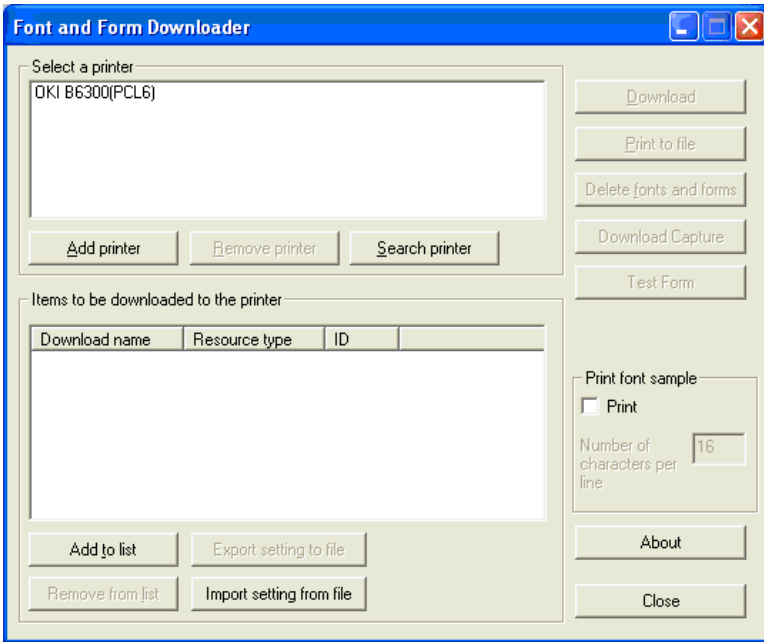
Note: To download PostScript forms, use OkiWebRemote: see page 23.

Installing the Utility

1. Close all open applications.
2. Place the CD supplied with the CompactFlash Kit in your CD-ROM drive.
3. Click [Start] → [Run], then browse to the [FontFormDownloader1001] folder.
4. Double click the [SETUP.EXE] file.
The OKI Font and Form Downloader installation wizard opens.
5. Follow the on-screen instructions to load the utility.

Running the Utility

Click [Start] → [Programs] → [Okidata] → [Font and Form Downloader] → [Font and Form Downloader:]

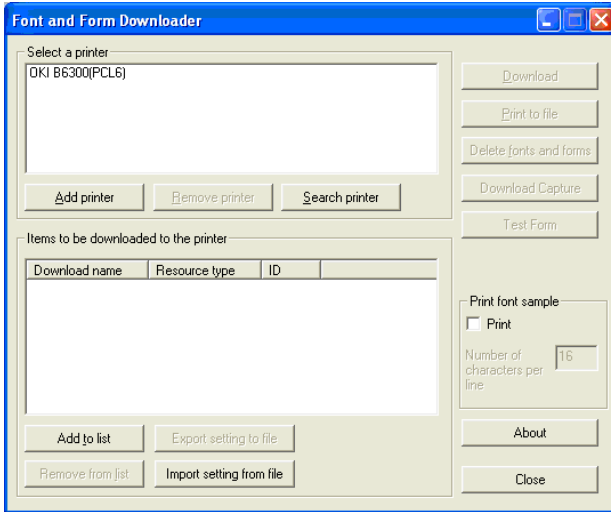


Make sure the printer is discovered and appears in the [Select a printer] box.

Using the Utility: PCL Fonts

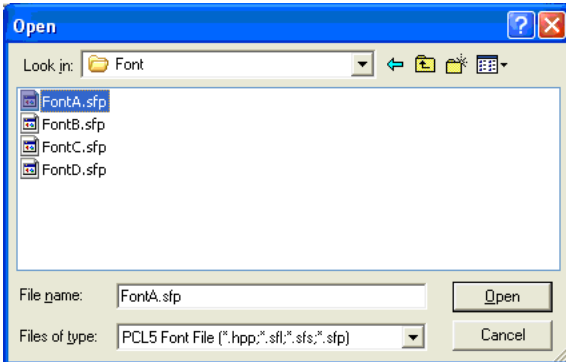
Downloading Fonts

1. Open the Font and Form Downloader utility.



2. Click [Add to List].

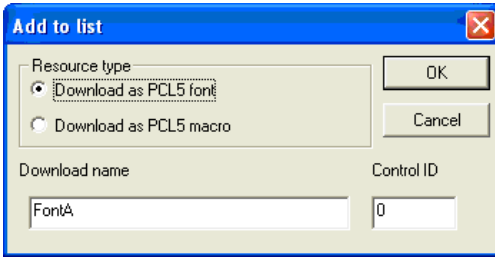
The Open window appears.



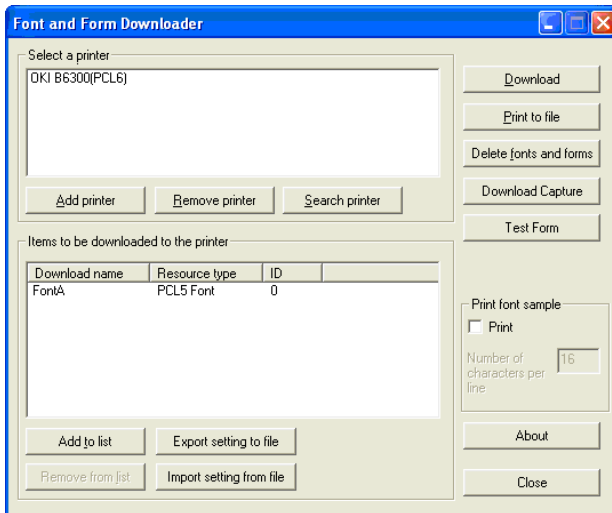
3. Browse to the folder where the font you wish to download is located.

4. In the [Files of type:] drop down list, select the type of font to be downloaded.

5. Click the font you wish to download, then click [Open].
The Add to list window appears.



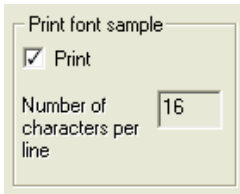
6. Select [Download as PCL5 font].
- Enter the name under which you wish to store the font.
 - Enter the Control ID you wish to use for the font.
 - Click [OK].
- The utility returns to the main screen with the font you selected now listed in the box:*



7. Repeat the process for each font you wish to download.

8. When you are done selecting fonts, click the printer name in the [Select a printer] box.

Note: If you wish to have the printer automatically print out a sample of the fonts, select [Print] under [Print font sample].

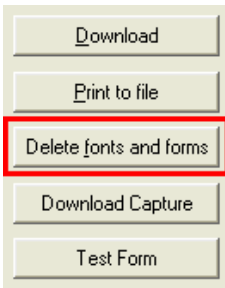


9. Click [Download].

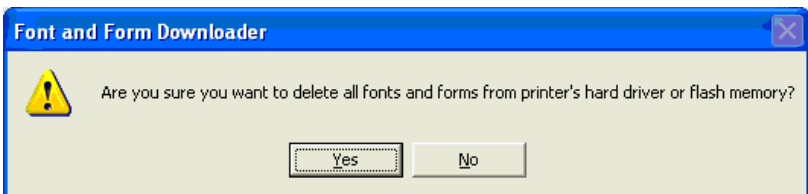
Deleting Downloaded Fonts (and Forms)

Caution! This command **deletes ALL fonts and forms** from the CompactFlash. To delete individual fonts or forms, use *OkiWebRemote*: see pages 23 and 23.

1. In the main utility window, click [Delete fonts and forms].



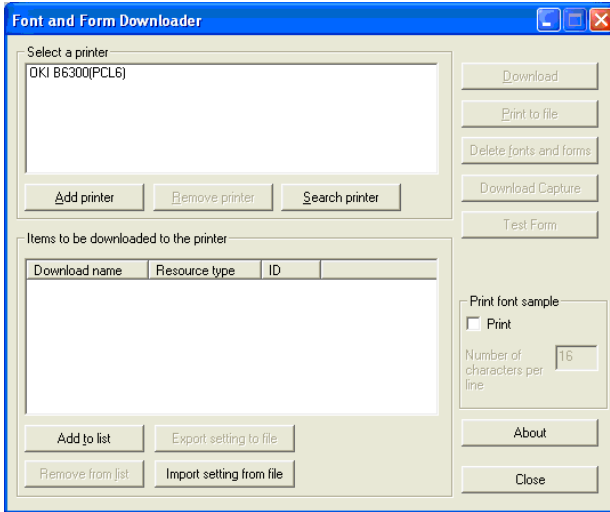
2. Click [Yes] to confirm the deleting of *all* fonts and forms from the CompactFlash.



Using the Utility: PCL Forms (Macros / Overlays)

Downloading PCL Forms

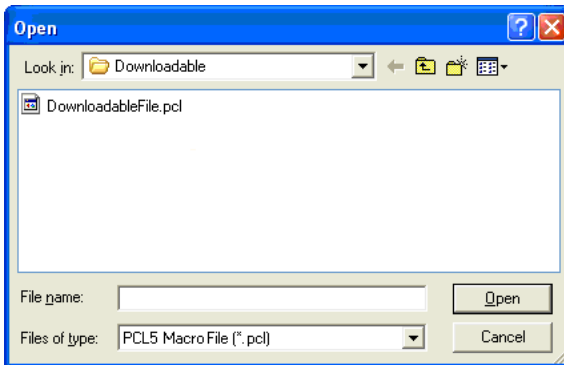
1. Open the Font and Form Downloader utility.



2. Click [Add to List].

The Open window appears.

3. Browse to the folder where the form you wish to download is located.



4. Select [PCL5 Macro File (*.pcl)] or [All Files (*.*)] from the [Files of type:] drop down list.

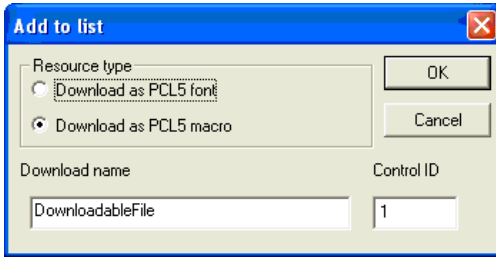
5. Click the form you wish to download, then click [Open].

The Add to list window appears.

6. Select [Download as PCL5 macro].

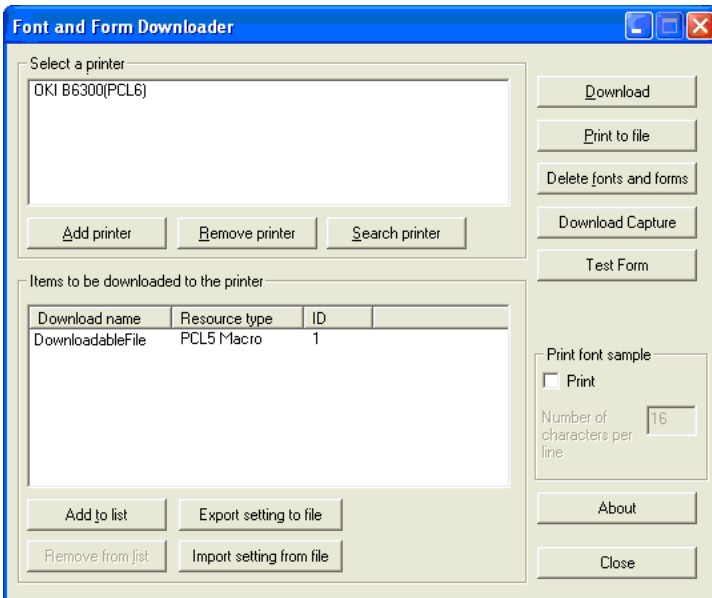
a. Enter the name under which you wish to store the form.

- b. Enter the Control ID you wish to use for the form. *Keep a record of the Control ID you set for future reference.*



7. Click [OK].

The utility returns to the main screen with the form you selected now listed in the box:



8. Repeat the process for each form you wish to download.
9. When you are done selecting forms, click the printer name in the [Select a printer] box.
10. Click [Download].

Running a Test Print for a Downloaded Form

With the Font and Form Downloader utility open and the printer highlighted in the [Select a printer] box:

1. Click [Test Form].
The Test Form dialog box appears.
2. Enter the Control ID number for the form you wish to print, then click [Print].
The form prints.

Deleting Downloaded Forms

To delete all fonts and forms, see "Deleting Downloaded Fonts (and Forms)" on page 17.

To delete individual forms, use OkiWebRemote: see page 23.

OkiWebRemote

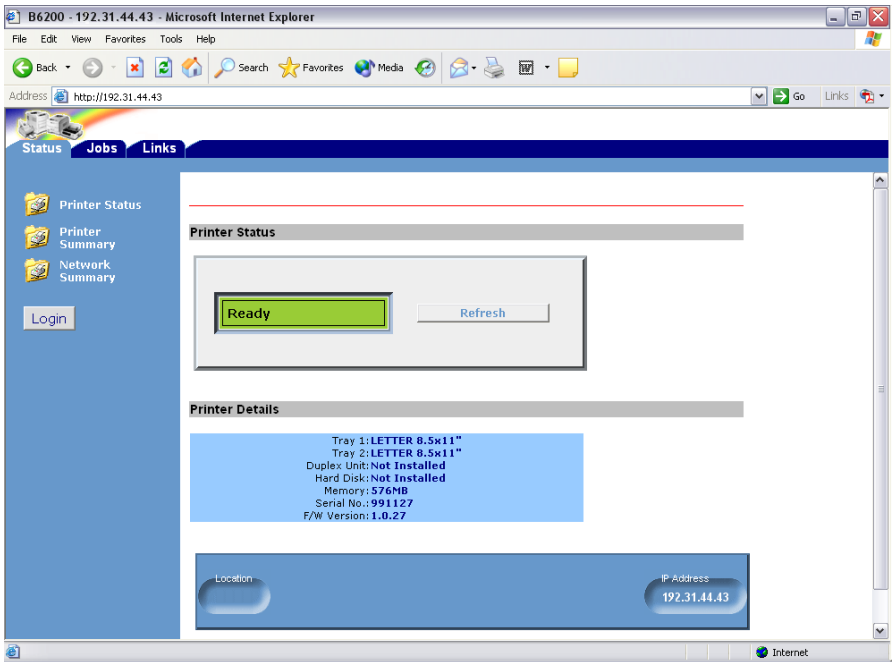
Note: Use of the CompactFlash with OkiWebRemote requires a web browser such as Microsoft Internet Explorer® version 5.5 and higher, or Netscape® version 6.2 and higher.

The OkiWebRemote web page is built into your printer. Use it for

- downloading fonts and forms (macros/overlays) to the CompactFlash
- deleting fonts and forms (macros/overlays) from the CompactFlash
- changing printer settings
- resetting the printer, etc.

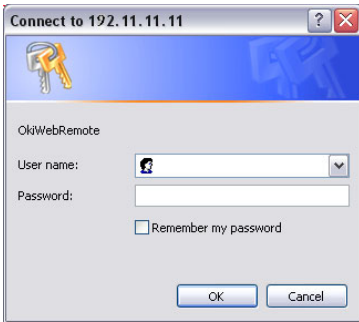
Accessing OkiWebRemote

1. Open your web browser.
2. Under Address, type in the printer's IP address (e.g., http://192.11.11.11), then press Enter.
OkiWebRemote opens with the Status tab displayed.



Note: You will need the Mac address to log in. If you do not already have it, click [Network Summary] in the left column and record the last six digits, minus the colons.

3. Click [Login].
The "Connect to" screen appears.



- a. Type "root" as the [User name] (be sure to use *all lower case letters*).
- b. Type the last six digits of the Mac address (without the colons) for the [Password].

4. Click [OK].

You are now ready to download to the CompactFlash.

Using OkiWebRemote: Fonts

If you wish to include an ID for fonts downloaded using OkiWebRemote, follow the instructions in your PCL5 Command Reference Guide to assign the ID before proceeding.

Downloading Fonts

1. In the left column on the Maintenance tab, click [Font Maintenance] → [Font Registration].
2. Download a font:
 - a. Click [Browse].
The [Choose file] dialog box opens.
 - b. Check the [Files of Type] setting.

- c. Browse to the folder containing the font(s) you wish to download.
- d. Highlight the font to be included, then click [Open].
The font file path and name appear in the [Font File Name] box.
- e. Click [Submit].
"Settings have been changed." appears.

3. Repeat the process for each font you wish to download.

Deleting Downloaded Fonts

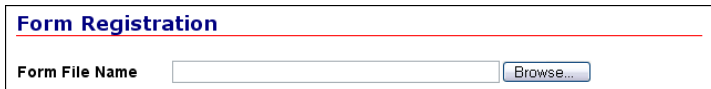
1. In the left column on the Maintenance tab, click [Font Maintenance] → [Font Listings].
2. Highlight the font to be deleted.
3. Click [Delete].
4. Repeat the process for each font you wish to delete.

Using OkiWebRemote: Forms (Overlays)

If you wish to include an ID for forms downloaded using OkiWebRemote, follow the instructions in your PCL5 Command Reference Guide to assign the ID before proceeding.

Downloading Forms

1. In the left column on the Maintenance tab, click [Form Maintenance] → [Form Registration].
2. Download a form:
 - a. Click [Browse].
The Choose file dialog box opens.
 - b. Check the [Files of Type] setting.



The image shows a screenshot of a dialog box titled "Form Registration". Below the title bar, there is a red horizontal line. Underneath, there is a label "Form File Name" followed by a text input field and a "Browse..." button.

- c. Browse to the folder containing the Form(s) you wish to download.
 - d. Highlight the form to be included, then click [Open].
The file name appears in the [Form File Name] box.
 - e. Click [Submit].
"Settings have been changed." appears.
3. Repeat the process for each form you wish to download.

Deleting Downloaded Forms

1. In the left column on the Maintenance tab, click [Form Maintenance] → [Form Listings].
2. Highlight the form to be deleted.
3. Click [Delete].
4. Repeat the process for each form you wish to delete.

Generating a Lists of Fonts

To generate a list of the downloaded fonts stored on the CompactFlash, including the escape sequence for each font:

1. Press the <**MENU**> button to enter the printer menu
2. Press the <▼> button one or more times until you see "Report/List" on the second line of the display.
3. Press the <▶> button once to enter the Report/List sub menu.
4. Press the <▼> button repeatedly until you see "Fonts List" on the second line of the display.
5. Press the <▶> button once to select Fonts List.
6. Press the <**FEED / SELECT**> button.
The Fonts List prints. The fonts stored on the CompactFlash are found at the bottom of the list.
7. Press the <**MENU**> button to exit the printer menu.
"Ready to print" appears on the display.

Printing Using Fonts and Forms

Using Downloaded Fonts

The B6200n and B6300n CompactFlash cards support fonts of many types.

Important!

The examples below are provided to help guide you through the process of using commands to employ downloaded fonts and forms in printed documents. Using commands requires experience with PCL5 programming language and an understanding of embedding the commands.

Selecting Fonts by Font Attribute

Select a downloaded font using its escape sequence. The escape sequences for downloaded fonts are given in the Fonts List report. See "Generating a Lists of Fonts" on page 24.

Example

To select a downloaded font whose escape sequence is
<ESC>(10U<ESC>(s1p8.0v0s0b23T:

```
<ESC>%-12345X@PJL ENTERLANGUAGE=PCL<0D><0A>
```

```
[DATA STRING] (Printer Default)<0D><0A>
```

```
<ESC> (10U<ESC> (s1p8.0v0s0b23T
```

```
[DATA STRING] <0D><0A>
```

```
<0C>
```

```
<ESC>%-12345X
```

Selecting Fonts by FontID

Commands used:

| Command | ASCII | Hexadecimal |
|--------------------------------------|--------------------|--------------------|
| Assign FontID | <ESC> * c # D | 1B 2A 63 # 44 |
| Assign FontID to FontFile in storage | <ESC> & n # W [01] | 1B 26 6E # 57 [01] |
| Select primary font by FontID | <ESC> (# X | 1B 28 # 58 |

Example

To select downloaded fonts Font1.sfp and Font12.sfp:

```
<ESC>%-12345X@PJL ENTERLANGUAGE=PCL<0D><0A>  
<ESC>*c1000D<ESC>&n10W<01>Font1.sf  
/* assign Font ID 1000 to Font1.sfp*/  
<ESC>*c1001D<ESC>&n11W<01>Font12.sfp  
/* assign Font ID 1001 to Font12.sfp */  
<ESC>(1000X[DATA STRING]<0D><0A> /* select Font1.sfp at ID 1000*/  
<ESC>(1001X[DATA STRING]<0D><0A> /* select Font12.sfp at ID 1001*/  
<0C>  
<ESC>%-12345X
```

Switching Fonts

Set a Primary and Secondary Font

For PCL5, you can set one Primary and one Secondary font, then use the SI and SO commands to switch between them.

Commands used:

| Command | ASCII | Hexadecimal |
|--------------------------------------|--------------------|--------------------|
| Assign FontID | <ESC> * c # D | 1B 2A 63 # 44 |
| Assign FontID to FontFile in storage | <ESC> & n # W [01] | 1B 26 6E # 57 [01] |
| Set primary font by FontID | <ESC> (# X | 1B 28 # 58 |
| Set secondary font by FontID | <ESC>) # X | 1B 29 # 58 |
| Switch to primary font | SI | 0F |
| Switch to secondary font | SO | 0E |

Example

To set the default resident font Courier as the Primary font and the downloaded font Download1.bin as the Secondary font, then switch between them:

```
<ESC>%-12345X@PJL ENTERLANGUAGE=PCL<0D><0A>
<ESC>*c1000D<ESC>&n12W<01>Download1.bin
/* assign Font ID 1000 to Download1.bin */
<ESC> ) 1000X /* Set Downloaded font as Secondary font */
<0F> [DATA STRING] .<0D><0A> /* Select Primary font */
<0E> [DATA STRING] .<0D><0A> /* Select Secondary font */
<0F> [DATA STRING] .<0D><0A> /* Select Primary font */
<0E> [DATA STRING] .<0D><0A> /* Select Secondary font */
<0C>
<ESC>%-12345X
```

Set the Font as the Primary Font Each Time You Switch

If you prefer, you can set the font you wish to use as the Primary font each time you call it up in the program.

Commands used:

| Command | ASCII | Hexadecimal |
|--------------------------------------|--------------------|--------------------|
| Assign FontID | <ESC> * c # D | 1B 2A 63 # 44 |
| Assign FontID to FontFile in storage | <ESC> & n # W [01] | 1B 26 6E # 57 [01] |
| Select primary font by FontID | <ESC> (# X | 1B 28 # 58 |
| Select secondary font by FontID | <ESC>) # X | 1B 29 # 58 |

Example

To switch between the resident font CG Times and the downloaded font Download1.bin:

```
<ESC>%-12345X@PJL ENTERLANGUAGE=PCL<0D><0A>  
<ESC>*c1000D<ESC>&n12W<01>Download1.bin  
/* assign Font ID 1000 to Download1.bin */  
<1B>(8U<1B>(s1p8.0v0s0b5T /* Set CG Times as Primary font */  
[DATA STRING].<0D><0A>  
<ESC>(1000X /* Set Downloaded font as Primary font */  
[DATA STRING].<0D><0A>  
<1B>(8U<1B>(s1p8.0v0s0b5T /* Set CG Times as Primary font */  
[DATA STRING].<0D><0A>  
<ESC>(1000X /* Set Downloaded font as Primary font */  
[DATA STRING].<0D><0A>  
<0C>  
<ESC>%-12345X
```

Using Resident Bar Code Fonts

Available Bar Code Fonts

| Bar Code | Escape Sequence |
|--------------------|--------------------------------------------------------|
| Interleaved 2 of 5 | <ESC> (4 Y <ESC> (s SIZE^a v 64 T |
| Code 128 | <ESC> (9 Y <ESC> (s SIZE^a v 124 T |
| Code 3 of 9 | <ESC> (0 Y <ESC> (s SIZE^a v 94 T |
| USPS Zip | <ESC> (15 Y <ESC> (s SIZE^a v 505 T |
| EAN/UPC | <ESC> (8 Y <ESC> (s SIZE^a v 44 T |

a. Fill in point size: range = 0.25 to 999.

Select Barcode Font by Font Attribute

Use the escape sequence to select barcode fonts.

Example 1

To select Code 3 of 9 using the escape sequence:

```
<ESC>%-12345X@PJL ENTERLANGUAGE=PCL<0D><0A>  
1-23456<20><20><ESC> (0Y<ESC> (s18v94T1-23456<0D><0A>  
<0C>  
ESC%-12345X
```

Example 2

To set Code 3 of 9 as a Secondary font:

```
<ESC>%-12345X@PJL ENTERLANGUAGE=PCL<0D><0A>  
<ESC> ) 0Y<ESC> ) s18v94T  
<0F><20><20>1-23456<20><20><0E>1-23456  
<0F><20><20>1-65432<20><20><0E>1-65432<0D><0A>  
<0C>  
ESC%-12345X
```

Using Forms (Macros / Overlays)

Important!

The examples below are provided to help guide you through the process of using commands to employ downloaded fonts and forms in printed documents. Using commands requires experience with PCL5 programming language and an understanding of embedding the commands.

| Command | ASCII | Hexadecimal |
|---------------|---------------|----------------|
| Macro ID | <ESC> & f # Y | 1B 26 66 # 59 |
| Macro Control | <ESC> & f 4 X | 1B 26 66 34 58 |

Example

- The form file name is hello70.prn. It has been stored on the CompactFlash using Control ID = 2.
- The print job file name is hello71.prn.

To print the file hello71.prn with the hello70.prn form included:

```
<ESC>%-12345X@PJL ENTERLANGUAGE=PCL<CF><RF>  
<1B>&f2Y  
<1B>&n12W<05>hello70.prn  
<1B>&f2Y  
<1B>&f4X  
[PCL DATA]  
<ESC>%-12345X
```

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