

READ ME FIRST

Installation Instructions for TROY Font Memory Card Kits

(For use with Hewlett-Packard LaserJet 2420, 2430, 4250, 4350, and 9050 Printers)

IMPORTANT: Before installing the TROY Font Memory Card, you must verify the firmware version of your HP printer to ensure it is compatible with your TROY Font Memory Card.

Introduction

Use the *TROY Font Memory Card Kit* CD to install the required Hewlett-Packard LaserJet printer drivers and TROY support files. To ensure successful installation of your TROY Font Memory Card product, perform the following steps in sequential order. The documentation and installation files contained on the *TROY Security Printing Solutions* CD will be needed in the event that your printer is reinstalled in a new location or after service has been performed.

Package Contents

- TROY Font Memory Card
- TROY Security Printing Solutions CD
- TROY Security Printing Solutions Information Sheet
- TROY Software License Agreement
- TROY MICR Document Template
- TROY Font Memory Card Kit User's Guide (provided in PDF format on the CD)
- TROY Font Card Installation Guide (provided in PDF format on the CD)
- TROY MICR Basics Handbook (provided in PDF format on the CD)
- TROY Font Memory Card Quick-Start Guide (this document)

STEP 1: Verify the HP Printer Firmware Version

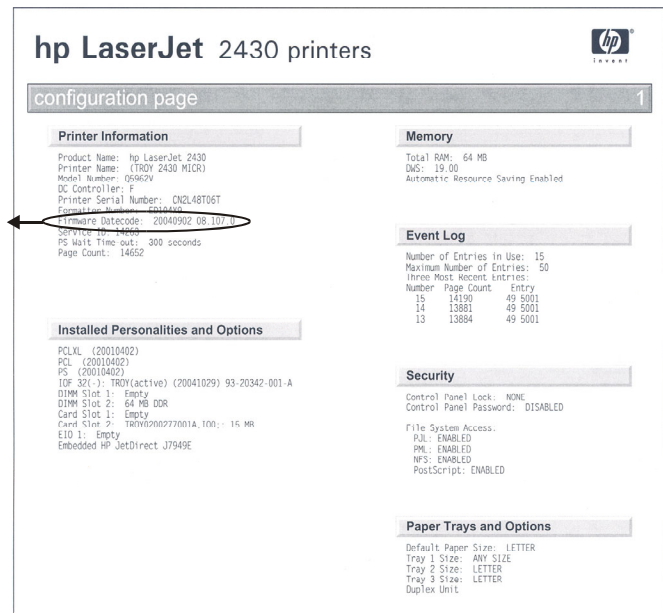
Your HP printer's firmware must be at the specified firmware version level or higher to ensure compatibility with your TROY Font Memory Card. In the event that you need to update your printer's firmware, the firmware update files and instructions are available for download from the HP web site.

- Print an HP configuration page by performing the following steps (Do NOT install the font memory card):
 - Ensure the printer is powered on and the printer control panel displays **READY**.
 - From the printer control panel, press the **✓** button, and then use the **▼** button to select the **INFROMATION** menu.
 - Press the **✓** button, and then use the **▼** button to select the **PRINT CONFIGURATION** menu.
 - Press the press the **✓** button again to print the HP configuration page.
- Look for the 'Firmware Datecode' in the 'Printer Information' section of the HP configuration page (see example below) and compare it to the firmware datecode listed in the table below. If your HP printer's firmware datecode is older than the specified version listed in the table below, then the printer's firmware must be updated. If your HP printer requires a firmware update, refer to firmware update instructions at the end of this document. Otherwise, proceed to STEP 2 to install the font memory card.

Example:

Firmware Datecode: 20040902 08.107.0

Printer Model	Firmware Datecode
HP 2420	20040902 08.107.0
HP 2430	20040902 08.107.0
HP 4250	20040902 08.007.0
HP 4350	20040902 08.007.0
HP 9050	20041223 08.101.1



STEP 2: Install the TROY MICR Toner Cartridge and TROY Font Card

- Be sure to install a TROY MICR toner cartridge (purchased separately from TROY) in the same manner as described for the standard Hewlett-Packard toner cartridge (refer to your Hewlett-Packard *Getting Started Guide* for details). A MICR toner cartridge must be installed in your printer in order to print MICR documents. For best results, TROY MICR toner cartridges are recommended. TROY's high-quality MICR toner is specifically designed for the MICR fonts on your TROY Font Memory Card.
- Install the TROY Font Memory Card (supplied with your TROY Font Memory Card Kit) by using the TROY Font Card Installation Guide provided in PDF format on the **TROY Security Printing Solutions** CD. The TROY Font Card must be installed before proceeding to Step #3 on the next page.

STEP 3: Install the HP PCL 5e Printer Driver for Microsoft® Windows™

NOTE: Use only the *TROY Security Printing Solutions* CD to install the Hewlett-Packard PCL 5e printer driver designated for your Hewlett-Packard printer. Some software screens may differ slightly in appearance between operating systems.

NOTE: Some HP PCL 5e printer drivers do not support TROY MICR features; therefore, the printer driver you are instructed to install may not correspond to your printer model. Some of the steps listed below may differ slightly depending on your operating system.

1. Close all applications before installing the HP PCL 5e printer driver.
2. Insert the *TROY Security Printing Solutions* CD into your computer CD drive.
3. Before beginning the installation process, you will need to know the operating system you are using on your computer. If you already know the operating system you are using, proceed directly to step #4. If you are not sure, right-click on *My Computer* (located on the Windows desktop), and then click on *Properties* to view the type of operating system installed on your computer.
4. From the *Start* menu, click on *Settings*, and then click on *Printers*.
5. Double-click on *Add Printer*, click on *Next*, choose *Local Printer*, and then click on *Next*. If you are using Windows 2000/XP, skip down to Step 12, and then proceed with Steps 6 through 11.
6. From the *Add Printer Wizard* window, click on *Have Disk*.
7. From the *Install From Disk* window, click on *Browse*.
8. From the *Open* window, click on the down-arrow in the *Drives* box to select the CD-ROM drive on your computer.
9. Double-click on the appropriate folder for the operating system you are using (e.g., Win98, etc.).
10. Double-click on the appropriate subfolder for the model printer you are using (e.g., 4250, 9050). If applicable for your model of printer, be sure to select either the USB or standard parallel (LPT1) printer. Click on *OK* to close the *Open* window, and then click on *OK* to close the *Install From Disk* window.
11. Select the appropriate printer driver for your printer model, and then click on *Next* to continue the driver installation. You will be given the choice to either replace or keep the existing driver. It is recommended that you always replace the existing driver. Click on *Next* to continue. If you are using Windows 2000/XP, skip down to Step 13.
12. Select the appropriate printer port from the displayed list (usually LPT1), and then click on *Next* to continue. If you are using Windows 2000/XP, go back and perform Steps 6 through 11 to complete the driver installation. Otherwise, for Windows 98SE/ME operating systems, the printer name will be highlighted.
13. For easy printer identification, it is recommended that you change the highlighted Hewlett-Packard printer name to the name of the TROY printer you are installing (e.g., *TROY MICR 4250 Secure EX Printer*) by typing over the highlighted printer name. If you want to use this printer as your default printer, be sure to select this printer as the default printer. If you are using Windows 2000/XP, choose to either share or not to share your printer over the network.
14. Click on *Yes* to print a test page to verify that your printer driver was installed correctly, and then click on *Next* to continue.
15. Click on *Finish* to complete the installation. The printer driver installation will proceed automatically and add the printer icon to the printer folder.

STEP 4: Install the TROY Support Files for Microsoft® Windows™

NOTE: The Hewlett-Packard PCL 5e printer driver must be installed on the host computer prior to loading the TROY support files (refer to STEP 2 on the previous page).

The TROY metrics file contains the required escape sequences that are used to “call” the TROY security and/or optional barcode fonts installed in your TROY Security Printing Solution (via the TROY Font Memory Card). When properly installed, the TROY metrics file will be associated with the PCL 5e printer driver used by your Hewlett-Packard printer to enable printing of the actual fonts installed in the printer. By associating the metrics file with the printer driver, the TROY TrueType screen fonts will be automatically replaced with the actual TROY fonts at print time. If the TROY metrics file is not properly installed, then the TROY TrueType screen fonts will print instead of the actual TROY installed printer fonts.

Install the TROY Metrics File for Windows™ 98SE, ME Operating Systems

1. Close all applications before installing the TROY Font support files.
2. Insert the *TROY Security Printing Solutions* CD into your computer CD-ROM drive.
3. From the Microsoft Windows *Start* menu, click on *Settings*, and then click on *Printers*.
4. Right-click on your TROY Security Printing Solutions printer icon, and then click on *Properties* from the pull-down menu. If multiple printers are installed, make sure the correct printer icon is selected that corresponds to your TROY Security Printing Solutions printer.
5. Click on the *Configure* tab located at the top of the *Properties* window.
6. Within the *Other Options* category, click on the *More* button. Some printer driver versions may not display the *Other Options* category. If this is the case, simply skip to the next step.
7. Within the *Fonts* category, place a check mark in the *Font Cards* checkbox, and then click on the *Configure* button (with some printer driver software versions, the *Configure* button may already be “clicked”). A new window will open labeled *Configure Font Cards*.
8. Click on the *Add* button to open the *Add Font Card* window.
9. Click on the *Browse* button to open a Windows Explorer-style window. Click on the down-arrow in the *Drives* box to select the CD-ROM drive on your computer. Double-click on the *Support Files* folder from the list of folders, double-click on the *HPD Files* folder, and then double-click on the *Domestic* folder. For international products, double-click on the *International* folder.
10. Click on the file (located in the left-hand window) named *TroySEC.hpd* or *TroySECINTL.hpd* (for International customers), and then click on *Open* or *OK* (the displayed window may vary depending on the operating system being used). With some printer drivers, the *Add Font Card* window will appear. If this window appears, click on *OK* to close the window.
11. Within the *Configure Font Cards* window, verify the installation by clicking on the *Font Card Name: TROY Security Font Collection* or *TROY International Security Font Collection* listed under *Installed Font Cards*. Within the *Fonts* list, the TROY E-13B (enabled) along with other TROY fonts will be displayed.
12. Repeat Steps 9 through 11 to install the barcode fonts. Double-click on the *Support Files* folder, the *HPD Files* folder, and the *Barcode* folder, and then select the *TroyBAR.hpd* file. Verify the installation by clicking on the *Font Card Name: TROY Barcode Font Collection* listed under *Installed Font Cards*. Within the *Fonts* list, the TROY barcode fonts will be displayed.
13. Close all remaining open windows. Please refer to the TROY Font Memory Card Kit User’s Guide, Section 3 – *Using TROY Fonts* before using the installed fonts.

Install the TROY Screen Fonts for Windows™ 98SE, ME Operating Systems

In addition to the TROY *printer* fonts that are permanently programmed into your TROY Font Memory Card, the TROY *screen* fonts have been developed for display use only as a visual reference and for making positional adjustments to the MICR line. The TROY *screen* fonts display differently than the actual *printer* fonts to prevent unauthorized printing using the MICR *screen* fonts on other Windows-installed printers.

If the E-13B MICR *screen* font is used for printing, the inversely printed (white characters on black background) MICR *screen* font will not be readable by the bank reader/sorter machines. The uniquely displayed *screen* fonts ensure that the MICR font printed on your MICR documents is generated by a TROY Security Printing Solution and not from a Windows TrueType™ *screen* font. The TROY *screen* fonts are provided on the **TROY Security Printing Solutions** CD supplied with your TROY Font Memory Card Kit.

NOTE: Windows 2000/XP operating systems do not require installation of the TROY screen fonts.

1. Close all applications before installing the TROY support files.
2. Insert the **TROY Security Printing Solutions** CD into your computer CD-ROM drive.
3. From the **Start** menu, click on **Settings**, and then click on **Control Panel**.
4. Double-click on the **Fonts** folder icon.
5. Click on **File**, and then click on **Install New Font...** A new window labeled **Add Fonts** will open and then a Windows Explorer-style window will open.
6. Click on the down-arrow in the **Drives** box to select the CD-ROM drive on your computer. Double-click on the **Support Files** folder from the list of folders, double-click on the **HPD Files** folder, and then double-click on the **Domestic** folder. For international products, double-click on the **International** folder.
7. A list of TROY fonts will be listed within the **List of Fonts** section. Click on **Select All** to highlight all available fonts, and then click on **OK**. A processing window may appear while the installation process proceeds. Individual fonts may be selected if all the fonts are not needed.
8. Repeat Steps 5 through 7 to install the barcode screen fonts. Double-click on the **Support Files** folder, double-click on the **HPD Files** folder, and then double-click on the **Barcode** folder. Within the **List of Fonts** section, click on **Select All** to highlight all available barcode screen fonts, and then click on **OK**. A processing window may appear while the installation process proceeds.
9. Close all remaining open windows. The TROY screen fonts are now installed.

NOTE: For International customers, the International numeric fonts are not resident on the TROY Font Memory Card. These fonts are located on the **TROY Security Printing Solutions** CD in the “\Support Files\HPD Files\International\Fonts” folder and can be added to the TROY Font Card using the TROY Printer Utility – Download Soft Fonts Option. These fonts are designed as non-scalable bitmapped fonts.

Install the TROY Metrics File for Windows™ 2000, XP, Server 2003 Operating Systems

1. Close all applications before installing the TROY Font support files.
2. Insert the *TROY Security Printing Solutions* CD into your computer CD-ROM drive.
3. From the Microsoft Windows Start menu, click on *Settings*, and then click on *Printers*.
4. Right-click on your TROY Security Printing Solution icon, and then click on *Properties* from the pull-down menu. If multiple printers are installed, make sure the correct printer icon is selected that corresponds to your TROY Security Printing Solutions printer.
5. Click on the *Device Settings* tab located at the top of the *Properties* window.
6. Click on *External Font* (under the *Font Substitution Table* category), and then click on the *Properties* button.
7. Click on the *Browse* button to open the drive selection window. Double-click on the appropriate drive letter to select the CD-ROM drive on your computer.
8. Double-click on the *Support Files* folder from the list of folders, double-click on the *PCM Files* folder, double-click on the *Domestic* folder, and then click on *OK* to close the drive selection window. For international products, double-click on the *International* folder.
9. Use the SHIFT key to select all the fonts located in the left-hand window named *TROY Auto-Protect*, *TROY PCM7*, etc., and then click on *Add* to add those fonts. If you want to add an individual font, just highlight that specific font name and click on the *Add* button. All the added fonts should be displayed in the right-hand window.

NOTE: If the barcode option was purchased, repeat Steps 8 through 10. Choose the TROY Barcode PCM file from the Barcode folder.

10. Close all remaining open windows. Please refer to the TROY Font Memory Card Kit User's Guide, Section 3 – *Using TROY Fonts* before using the installed fonts.

NOTE: Windows 2000/XP operating systems do not require installation of the TROY screen fonts.

STEP 5: Install the TROY Software for Microsoft® Windows™

Install the TROY Printer Utility for Windows™ 98, ME, 2000, XP, Server 2003

The TROY Printer Utility provides useful functions for testing your TROY Security Printing Solution through Microsoft® Windows™. This utility takes advantage of the Windows-installed printer collection, allowing access to any printer installed in the Windows environment. The printer connection may be local, network, or direct network connected. The TROY Printer Utility should be installed on the administrator's computer only. Some of the features of the TROY Printer Utility are provided for special applications and may not be intended for general use. Refer to the TROY Font Memory Card Kit User's Guide, Section 2 – *Using the TROY Printer Utility* for more information.

1. Close all applications before installing the TROY Printer Utility application.
2. Insert the *TROY Security Printing Solutions* CD into your CD-ROM drive.
3. From the *Start* menu, click on *Run*, and then click on *Browse*.
4. Click on the down-arrow in the *Look In* box at the top of the window, and then click on the drive letter designated for the CD-ROM drive on your computer.
5. Double-click on the *TROY Printer Utility* folder.
6. Click on the file named *setup.exe*, click on *Open*, and then click on *OK* to start the installation process. Follow the screen prompts to complete the installation.

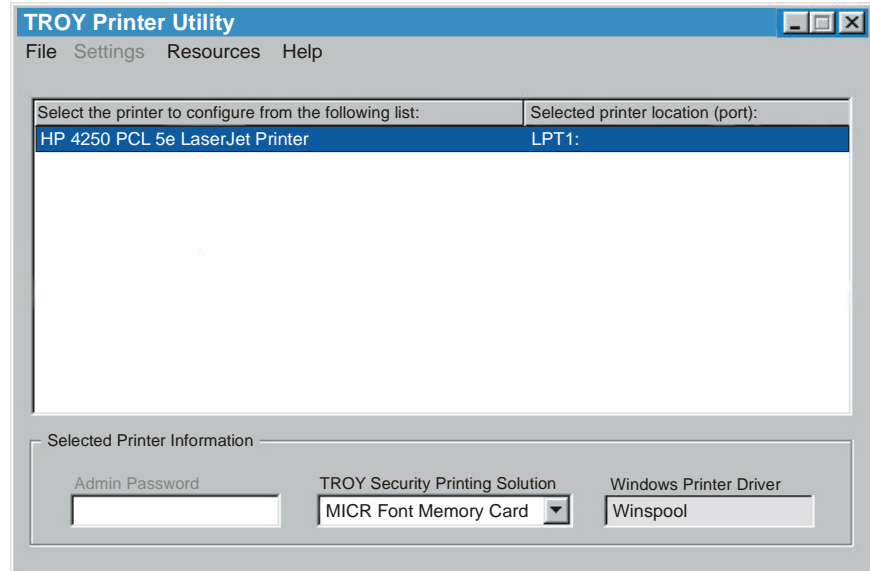
NOTE: The TROY Printer Utility can be removed using the uninstall procedures located in Section 4 of the TROY Font Memory Card Kit User's Guide.

STEP 6: Test the TROY Font Support for Microsoft® Windows™

To verify that the TROY Windows font support files were properly installed on your system, demonstration documents are provided through the TROY Printer Utility in Windows that can be printed out to visually identify all security and/or barcode fonts downloaded to your printer. Make sure your printer is properly setup, powered ON, and is online before printing the Windows Security Font and/or Windows Barcode Font Demonstration page(s).

To PRINT THE TROY SECURITY FONT / BARCODE FONT DEMONSTRATION PAGE(S):

1. From the TROY Printer Utility *Main Window*, click on the printer you wish to manage, and then verify that the correct TROY Security Printing Solution is selected from the drop-down list at the bottom of the window.
2. From the *Main Window*, click on *File, Print*, and click on *Windows Security (MICR) Font Demo*. The printer will automatically print the Windows Security Font Demonstration page.



3. Compare the actual TROY security fonts (the actual fonts generated by your printing system) shown in the right-hand column with the facsimile image of these fonts printed in the center column (a digitized image designed to look exactly like the actual fonts correctly generated by your system – refer to the example shown on the next page).

If the support files were properly installed, the actual TROY security and/or barcode fonts displayed in the right-hand column should appear identical to the facsimile fonts displayed in the center column. If the actual fonts do not match the facsimile fonts printed on the demonstration document (fonts not printed correctly or fonts missing on the printout), review the installation steps in this document. If further assistance is required, contact TROY Technical Support.

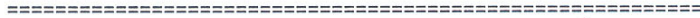
Accessing TROY Fonts Using Non-Windows Applications

If you are using a non-Windows application to print MICR documents, the escape sequence for each font must be programmed into the application in order to “call” each of the selected fonts. The <Esc> character is ASCII character number 27 (hexadecimal number 1B). Refer to Section 3 – *Using TROY Fonts* in the *TROY Font Memory Card Kit User’s Guide* for the specific escape sequence used to call each TROY font.

TROY Security Font Demonstration Page (not to scale)

TROY Security Font Collection

Microsoft Windows Test Page



This document displays how the TROY Security Font Collection should appear when printed through Microsoft Windows (Facsimile Font Image) and how they actually print through your Microsoft Windows printer driver configuration (Actual Printed Font) to a TROY Security Printing Solution.

Compare the fonts printed in the Facsimile Font Image column of this page to the fonts printed in the Actual Printed Font column. If the Windows support files (PCM) were properly installed into the Hewlett Packard PCL 5e printer driver, the fonts in the two columns should match. If the fonts in both columns do not match (fonts in the Actual Printed Fonts column not printed correctly or missing from this page), review the Windows Support File installation steps in the user documentation. If further assistance is needed, please contact TROY Technical Support 1-800-332-6427, or email techsupport@troygroup.com

<u>Font Name</u>	<u>Facsimile Font Image</u>	<u>Actual Printed Font</u>
TROY E-13B	1 2 3 4 5 6 7 8 9 0	1 2 3 4 5 6 7 8 9 0
TROY CMC7	1 2 3 4 5 6 7 8 9 0	1 2 3 4 5 6 7 8 9 0
TROY ECF	0 1 2 3 4 5 6 7 8 9 0 <small>ZERO ONE TWO THREE FOUR FIVE SIX SEVEN EIGHT NINE ZERO</small>	0 1 2 3 4 5 6 7 8 9 0 <small>ZERO ONE TWO THREE FOUR FIVE SIX SEVEN EIGHT NINE ZERO</small>
TROY LCF	1 2 3 4 5 6 7 8 9 0 <small>ONE TWO THREE FOUR FIVE SIX SEVEN EIGHT NINE ZERO</small>	1 2 3 4 5 6 7 8 9 0 <small>ONE TWO THREE FOUR FIVE SIX SEVEN EIGHT NINE ZERO</small>
TROY SCF	1 2 3 4 5 6 7 8 9 0 <small>ONE TWO THREE FOUR FIVE SIX SEVEN EIGHT NINE ZERO</small>	1 2 3 4 5 6 7 8 9 0 <small>ONE TWO THREE FOUR FIVE SIX SEVEN EIGHT NINE ZERO</small>
TROY HELV Rev	1 2 3 4 5 6 7 8 9 0	1 2 3 4 5 6 7 8 9 0
TROY MICRO	MP MP MP	MP MP MP
TROY OCRA	1 2 3 4 5 6 7 8 9 0 A B C D	1 2 3 4 5 6 7 8 9 0 A B C D
TROY OCRB	1 2 3 4 5 6 7 8 9 0 A B C D	1 2 3 4 5 6 7 8 9 0 A B C D
TROY Security	1 2 3 4 5 6 7 8 9 0 <small>ONE TWO THREE FOUR FIVE SIX SEVEN EIGHT NINE ZERO</small>	1 2 3 4 5 6 7 8 9 0 <small>ONE TWO THREE FOUR FIVE SIX SEVEN EIGHT NINE ZERO</small>

NOTE: The TROY Microprint Font is not supported for the TROY Font Memory Card.

Obtaining Technical Assistance

The TROY Printer Utility provides several help screens to guide you through the available features and functions of your TROY Security Printing Solution. TROY technical support is available to assist you with any questions concerning the setup, operation and maintenance of your Security Printing Solution. Specific system information about your TROY product configuration is available through the TROY Printer Utility. You are also encouraged to visit the TROY web site for the latest FAQs (Frequently Asked Questions), information on the latest TROY products, or for ordering MICR toner and other printing supplies.

TO VIEW TECHNICAL SUPPORT INFORMATION:

From the *Main Window*, click on *Help*, and then click on *Technical Support* to view the TROY Technical Support HTML page for telephone numbers and hours of business.

TO VIEW INFORMATION ON THE TROY WEB SITE:

From the *Main Window*, click on *Help*, and then click on *TROY on the Web* to access the TROY web site. Click on the *Support and Downloads* button at the top of the web page to view the available topics. You can access the TROY web site directly from your web browser at <http://www.troypgroup.com>.

Reference Material

- TROY MICR Basics Handbook (provided on *TROY Security Printing Solutions* CD)
- TROY Font Memory Card Kit User's Guide (provided on *TROY Security Printing Solutions* CD)
- Hewlett-Packard Getting Started Guide (provided in the *TROY Security Printing* Startup Package)
- Hewlett-Packard Printer User's Guide (provided on the *Hewlett-Packard* CD supplied with your printer)

Update the HP Printer Firmware

1. Using an Internet connection (broadband connection recommended), open a web browser (e.g., Internet Explorer or Netscape Navigator), type in <<http://www.hp.com>> in the address bar, and then press Enter. The HP home page should appear on your screen momentarily.

NOTE: The HP links and/or link names described in the following steps are subject to change without notice.

2. From the HP home page, click on *Support and Drivers* from the menu items listed on the right-hand side of the screen, click on *Printing and Multifunction* from the ‘Select a product category’ section, and then click on *Printers* from the ‘Select your product’ section.
3. From the *Printers* page, click on *HP LaserJet Printers* from the ‘Select your product’ section, and then select the printer series that corresponds to your HP printer (i.e., select *HP LaserJet 2000 Printer Series* if you own an HP 2430 printer).
4. Click on the printer model that matches your HP printer model (e.g., HP LaserJet 2400 Printer Series) from the ‘Select your product’ section.
5. Click on *Download drivers and software* from the ‘I would like to’ section, and then click on the printer model that exactly matches your HP printer model (e.g., HP LaserJet 2430tn Printer) from the ‘Select your product’ section.
6. Click on *Cross operating system (BIOS, Firmware, Diagnostics, etc.)* from the ‘Select operating system’ section.
7. Click on the *download* button that corresponds to the operating system installed on your computer (i.e., Windows, Macintosh, or Unix). When the file download screen appears, click on *Save*, select the folder you wish to save the file to, and then click on *OK* to start the download process. Depending on the speed of your Internet connection, the download may take several minutes to complete. When the download is complete, click on *Close*.
8. Follow the directions in the corresponding **README.TXT** file provided on the web page for installing the new firmware file.