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You can read the recommendations in the user guide, the technical guide or the installation guide for COMPAQ PHOTOSMART PRO B9100. You'll find the answers to all your questions on the COMPAQ PHOTOSMART PRO B9100 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual COMPAQ PHOTOSMART PRO B9100**  
**User guide COMPAQ PHOTOSMART PRO B9100**  
**Operating instructions COMPAQ PHOTOSMART PRO B9100**  
**Instructions for use COMPAQ PHOTOSMART PRO B9100**  
**Instruction manual COMPAQ PHOTOSMART PRO B9100**

## HP Photosmart Pro B9100 series

User Guide



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**Manual abstract:**

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Environmental statements For Environmental Stewardship information, see the electronic Help. Contents 1 Welcome....

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..71 2 HP Photosmart Pro B9100 series printer 1 Welcome Thank you for purchasing an HP Photosmart Pro B9100 series printer. Designed especially for professional and serious amateur photographers, this printer provides the following advanced technologies and features: An 8-color system that yields rich, bright, fade-resistant, and color-accurate photos, especially when used with HP Advanced Photo Paper. Four dual-color printheads that provide up to four times faster printing than previous technologies.

Support for a very wide range of media sizes and types, from 7.6 x 13 cm to 32 x 48 cm (3 x 5 inches to 13 x 19 inches), and from light photo stock to 1.5 mm rigid media. Automatic ink nozzle monitoring and cleaning and on-the-fly nozzle substitution, for minimum downtime. Closed-loop color calibration for assured color accuracy. Advanced color management with the HP Photosmart Pro print plug-in for Adobe Photoshop®, which streamlines your color management workflow. Find more information Printer parts Printer menu This section includes the following topics: Find more information The printer comes with the following documentation: Quick Start guide: Read this document first, to learn how to set up the printer and install the printer software. User Guide: The User Guide is the book you are reading. This book describes the basic features of the printer and contains troubleshooting information. Electronic Help: The electronic Help describes the printer software features and contains software troubleshooting information.

After you have installed the HP Photosmart printer software on a computer, open and explore the HP Photosmart Help: Windows: From the Start menu, select Programs or All Programs, point to HP, HP Photosmart Pro B9100 series, and then click HP Photosmart Printer Help. Mac: Select Help, Mac Help in the Finder, and then choose Library, HP Photosmart Printer Help. HP Solution Center (Windows only): The HP Solution Center provides information about all of your HP devices. Learn about the printer and its software, and view troubleshooting solutions, including informative How Do I? animations Update your printer software Change printer settings HP Photosmart Pro B9100 series User Guide 3 Chapter 1 Order supplies Start HP Photosmart Premier software After you have installed the HP Photosmart printer software on a computer, open and explore the HP Solution Center. Windows: Right-click the HP Digital Imaging Monitor icon on the Windows taskbar, and then click Launch/Show HP Solution Center. Note In this user guide, printer software refers to the HP Photosmart software that comes on the CD with the printer. The printer driver is the part of the printer software which controls the printer. Printer parts Front of printer 1 2 3 4 Printer screen: Check the ink levels and see prious menu option. OK: Press to select a menu option or respond to a prompt on the printer screen. Next: Press to navigate to the next menu option.

Cancel: Press to exit a menu option or to stop the current print job. Attention light: Flashes red if an error requiring user action occurs. An error message is also displayed on the printer screen. Appears solid amber if there is an unrecoverable error. For more information, see Troubleshooting.

Ink level dots: These dots show you the position of each colored ink cartridge in the ink cartridge stalls below. When the printer is idle, the printer screen displays a bar graph to indicate the ink level of each cartridge in the order of the colored dots. 8 Printer menu Press Menu to open the printer menu. To navigate the printer menu Press or to scroll through the menus or options displayed on the printer screen.



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Any menu with a triangle next to it has submenus or options.

Press OK to display the submenus or options. Press Cancel to exit the current menu. The printer menu structure The following options are available from the printer menu. Print test page: Select this option to print a test page containing information about the printer such as the condition of the ink cartridges, the printer serial number, and the firmware version. See Print a test page. Print sample page: Select this option to print a sample photo. See Print a sample page.

8 HP Photosmart Pro B9100 series printer Network settings: Show IP address: Select this option to view the printer IP address (a numeric address that identifies the printer on a network). Print network settings page: Select this option to print a network configuration page that you can use to troubleshoot network connections or for the initial network setup. See Print a network settings page.

Reset network settings: Select this option to reset the printer network settings to the factory defaults. Clean printheads: Select this option to clean the printheads if you notice white lines or single-color streaks on the photos you print. After the cleaning finishes, the printer prints a test page. See Clean the printheads automatically. Calibrate printer: Align printheads: Select this option to align the printheads. Load Letter or A4-sized HP Advanced Photo Paper - Glossy in the main tray before you start this procedure to achieve best results. Closed loop calibration: Select this option to calibrate the printer color. The printer makes automatic adjustments and corrections using HP proprietary technology to give consistent and accurate color reproduction. Load Letter or A4-sized HP Advanced Photo Paper - Glossy in the main tray before you start this procedure to achieve best results. Reset closed loop calibration: Select this option to reset the printer color calibration to the default settings.

Load Letter or A4-sized HP Advanced Photo Paper - Glossy in the main tray before you start this procedure to achieve best results. Language: Select this option to indicate the language you want used on the printer screen. Show ink level percentage: Select this option to show the ink level for each of the ink cartridges. Note 1 The ink levels shown are an estimate only. Actual ink volumes may vary.

Note 2 Ink in the cartridges included in the printer box is used for printer initialization. Ink from these cartridges, as well as from replacement cartridges, is also used to keep print nozzles clear and ink flowing smoothly. HP Photosmart Pro B9100 series User Guide 9 Chapter 1 10 HP Photosmart Pro B9100 series printer 2 Basic printing This section contains the following topics: Media trays Load the main tray Load the specialty media tray Choose the right paper or other media Tips Print from a software program Change print settings Set the default print settings Make the HP Photosmart Pro B9100 series the default printer Media trays The printer has two media trays: Main tray: The main tray can hold and automatically load multiple sheets of media. Only thin, flexible media can be loaded into this tray, due to the bending that media is subject to as it passes through the printer from this tray. Specialty media tray: The specialty media tray is designed primarily for thick, rigid media.

Paper from this tray is fed straight through the printer, without being bent. When you use this tray, check that there is clear space behind the printer at least equal to the length of the media you are printing on. Load one sheet of media at a time into this tray, and be sure that the media is no thicker than 1.5 mm. Single sheets of lightweight paper can also be loaded into this tray. Both trays support a wide range of media sizes, from 7.6 x 12.7 cm to 32 x 48 cm (3 x 5 inches to 13 x 19 inches). See Choose the right paper or other media for a description of specific paper types for use with this printer. Use the following guidelines for determining which tray to load a particular type of media into: Media Photo, Inkjet, and Plain Papers Examples: HP Advanced Photo Paper;

Brochure, photo, inkjet, and plain papers Digital Fine Art Papers <220 gsm Examples: Photo Rag Digital Fine Art Papers >220 gsm Not supported Recommended Supported Recommended Main tray Recommended Specialty media tray Supported HP Photosmart Pro B9100 series User Guide 11 Chapter 2 (continued) Media Examples: Canvas; Photo Rag; Watercolor paper Rigid Media Examples: Photo board Any media thicker than 1.

5 mm Main tray Specialty media tray Not supported Recommended Not supported Not supported Note You do not need to remove media from the main tray before you use the specialty media tray. Load the main tray To load the main tray 1. Remove the output tray completely by grasping the sides of the tray with both hands and sliding it out towards you. The main tray is now accessible. 2. 3. Move the paper-width and paper-length guides to make room for the paper. Place a stack of paper in the main tray, in portrait orientation and with the side to be printed facing down. Align the paper against the right side of the tray and against the paper stops at the back of the tray. Check that the stack of paper is no higher than the top of the paper-width guide.

Tip For easier access or for loading larger sizes of media, extend the main tray by squeezing the main tray release and pulling the tray towards you. You can remove the tray from the printer if necessary, by grasping the sides of the tray with both hands and pulling it towards you. 12 HP Photosmart Pro B9100 series printer 4. If you extended or removed the main tray to load paper, push in the main tray to the end of the paper by squeezing the release and pushing in the tray, and push the tray back into the printer until it is fully seated. Be sure to adjust the length of the main tray and reseat the tray in the printer before you adjust the paper-length and paper-width guides or the paper will jam.

Adjust the paper-width and paper-length guides so they rest gently against the edges of the paper. 5. 6. Check that the paper is lying flat in the tray. Replace the output tray.

If you are printing on paper larger than 21.6 x 28 cm (8.5 x 11 inches), pull out the output tray extension by holding the output tray with one hand and pulling out the extension with your other hand. Flip up the paper catch. Note If you are using non-HP brands of glossy media in the main tray, and the printer does not feed the paper or feeds multiple sheets through at once, try reducing the number of sheets in the main tray to 20 sheets, or use the specialty media tray to print on one sheet at a time. Load the specialty media tray It is recommended that before you print on expensive specialty media, you practice using the specialty media tray by loading a single sheet of plain paper and printing an image or document.



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HP Photosmart Pro B9100 series User Guide 13 Chapter 2 For information on loading canvas media, see To load canvas in the specialty media tray. For all other types of media, see To load the specialty media tray. Note You do not need to remove media from the main tray before you use the specialty media tray. To load the specialty media tray 1.

Check that there is space behind the printer for the paper to pass back and forth through the rear paper slot. The space behind the printer should be equivalent to the length of the paper you are printing on. 2. Lower the specialty media tray. Wait while the printer raises the printhead assembly in preparation for printing. 3. Pull out the output tray extension by holding the output tray with one hand and pulling out the extension with your other hand. Flip up the paper catch at the end of the output tray extension to prevent paper from falling onto the floor. 4. Load one sheet with the side to be printed facing up on the specialty media tray.

Feed the media into the printer until the back edge of the media (the edge nearest you) is lined up with the dashed white line on the tray. For large sizes of media, the media will project through the rear paper slot at the back of the printer. If you are using tabbed paper, insert the paper so the tab feeds in first. HP Photosmart Pro B9100 series printer 14 Align the right edge of the media against the raised edge of the tray and not against the side of the printer.

Misaligned media can result in skewing or other printing problems, including paper jams.

Tip If the media is curled, you can open the top door to check that the media feeds under the rollers smoothly. Be sure to close the top door again. 5. Press OK on the printer. To load canvas in the specialty media tray 1.

Lower the specialty media tray. Wait while the printer raises the printhead assembly in preparation for printing. HP Photosmart Pro B9100 series User Guide 15 Chapter 2 2. Pull out the output tray extension by holding the output tray with one hand and pulling out the extension with your other hand. Flip up the paper catch at the end of the output tray extension to prevent paper from falling onto the floor. 3. Load one sheet of canvas media with the side to be printed facing up on the specialty media tray. a. Open the top door to check that the media feeds under the rollers smoothly. 16 HP Photosmart Pro B9100 series printer b.

c. Feed the media into the printer until the back edge of the media (the edge nearest you) is lined up with the dashed white line on the tray. For large sizes of media, the media will project through the rear paper slot at the back of the printer. Close the top door. 4. Select Canvas as the media type in the printer driver on the computer, and then click Print to send your print job to the printer. The printer checks that the media is flat enough to print on. If the media is not flat enough, the printer screen displays Paper jam. Remove media and check flatness. Press OK to continue.

If this occurs, remove the media from the back of the printer. Place the media in a plastic bag and gently bend it until it lies flat. Load the media again. If the problem persists, use a different, flatter sheet of media. HP Photosmart Pro B9100 series User Guide 17 Chapter 2 Note Store media in a plastic bag to prevent curling.

5. Press OK on the printer. Note When you print on certain types of media, the printer does not fully eject the media from the printer. Grasp the media with both hands and pull it from the front of the printer. Choose the right paper or other media For a list of available HP inkjet paper, or to purchase supplies, go to: www.

hpshopping.com (U.S.) www.hpshopping.ca (Canada) www.hp.com/eur/hpoptions (Europe) www.hp.com (All other countries/regions) To get the best and longest-lasting results from the printer, choose from these high quality papers.

To print High quality, long lasting prints and enlargements Use this paper or media HP Advanced Photo Paper This paper is available in several finishes, including glossy and satin-matte. Not all finishes are available in all countries/ regions or in every paper size. Color calibration and printhead alignment HP Advanced Photo Paper - Glossy Casual photos from e-mail and the Web Text documents, draft versions, and test pages Plain paper Plain paper Specialty media The printer prints on a variety of HP and non-HP specialty media. Experiment with some of the types listed here for special effects: HP Hahnemuhle

Smooth Fine Art Paper HP Hahnemuhle Watercolor Paper HP Aquarella Art Paper HP Artist Matte Canvas Photo Rag Photo Board (up to 1.5 mm in thickness only) Some media types may not be available in all countries/regions. Check with your local media provider. Warning Do not load media thicker than 1.5 mm, as it can damage the printer. 18 HP Photosmart Pro B9100 series printer Supported sizes Both trays support paper sizes ranging from 7.6 x 12.7 cm to 32 x 48 cm (3 x 5 inches to 13 x 19 inches), including: Metric 10 x 15 cm (with or without tab) Panorama 10 x 30 cm 13 x 18 cm A3 A4 (including Panorama) A5 A6 B4 B5 E Imperial Index card 3 x 5 inches Index card 4 x 6 inches Index card 5 x 8 inches 3.5 x 5 inches 4 x 6 inches (with or without a tab) Panorama 4 x 10 inches Panorama 4 x 11 inches Panorama 4 x 12 inches 5 x 7 inches 8 x 10 inches 11 x 14 inches 11 x 17 inches 12 x 12 inches 13 x 19 inches (B+) U.S. Letter Legal Executive Tabloid Japan L 2L Hagaki Ofuku Hagaki HP Photosmart Pro B9100 series User Guide 19 Chapter 2 Envelopes Envelope No. 10 A2 envelope C6 envelope DL envelope Warning Do not load media thicker than 1.

5 mm, as it can damage the printer. Tips Keep your paper in good condition for printing Store the photo paper in its original packaging or in a resealable plastic bag to prevent excessive curling, which can prevent proper feeding. Keep the paper flat in a cool, dry place. If the corners curl, place the paper in a plastic bag and gently bend it in the opposite direction until it lies flat. Handle the paper by the edges to prevent smears and fingerprints on the surface.

Do not leave media in the main tray when you are not printing, because the media can curl when left exposed to the air. Paper loading tips Be sure to adjust the length of the main tray to match the paper size you are using and reseat the tray back in the printer before you set the paper-length guide against the paper. If you set the paper-length guide first, and then adjust the tray length, the paper might jam. Load only one type and size of paper at a time in the main tray. After loading paper, extend the output tray extension and flip up the paper catch to hold your printed pages. This prevents printed pages from dropping off the output tray. Print tips If you are printing photos, transfer the photos from your digital camera to the computer using the steps outlined in your camera documentation.



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You can then open the photos in your image editing software program and print them from there. For information on installing the printer software, see *Networking*. Be sure to download the latest printer software update every couple of months to ensure you have the latest features and improvements.

For more information, see *Download printer software updates*. Print from a software program Follow the steps below to print a photo or document using the basic printer settings. To modify the settings, see *Change print settings*. To use the more advanced color management settings, see *Color management*. 20 HP Photosmart Pro B9100 series printer To print from a software program (Windows) 1. Make sure you have paper loaded correctly. 2. On the File menu in your software program, click Print. 3. Select the HP Photosmart Pro B9100 series as the printer.

If you have already set the HP Photosmart Pro B9100 series as the default printer, you can skip this step. The HP Photosmart Pro B9100 series will already be selected. 4. If you need to change settings, click the button that opens the Properties dialog box. Depending on your software program, this button might be called Properties, Options, Printer Setup, or Printer.

5. Select the appropriate options for your print job by using the features available in the Advanced, Printing Shortcuts, Features, and Color tabs. Tip You can easily select the appropriate options for your print job by choosing one of the predefined print tasks on the Printing Shortcuts tab. Click a type of print task in the Printing Shortcuts box. The default settings for that type of print task are set, and summarized on the Printing Shortcuts tab.

If necessary, you can adjust the settings here, or you can make your changes on the other tabs in the Properties dialog box. 6. 7. Click OK to close the Properties dialog box. Click Print or OK to begin printing. To print from a software program (Mac) 1. Make sure you have paper loaded correctly. 2. On the File menu in your software program, click Page Setup. 3.

Select the HP Photosmart Pro B9100 series as the printer. If you have already set the HP Photosmart Pro B9100 series as the default printer, you can skip this step. The HP Photosmart Pro B9100 series will already be selected. 4. Select the paper size from the Paper Size pop-up menu, and then click OK to save the settings. 5. On the File menu in your software program, click Print. 6. Select the appropriate options for your print job using the features available on the panes. Tip Define print tasks for print jobs that you do often in the Presets pop-up menu.

7. Click Print to begin printing. Change print settings This section contains the following topics: Change the print speed or quality Set the paper type Print in grayscale Note The electronic Help provides more information on the many print settings available in the printer driver. To learn how to open the electronic Help, see *Find more information*. HP Photosmart Pro B9100 series User Guide 21 Chapter 2 Change the print speed or quality To change the print speed or quality (Windows) 1.

Open the Printer Properties dialog box. 2. Click the Features tab. 3. In the Paper Type drop-down list, select the type of paper that you have loaded.

4. In the Print Quality drop-down list, select the appropriate quality setting for your project: FastDraft: Prints at the fastest printing speed. Normal:

Provides the best balance between print quality and speed. This is the appropriate setting for most documents. Best: Provides high quality printing.

Maximum dpi: Provides the highest quality prints possible, but requires longer to print than Best and requires a large amount of disk space. To change the print speed or quality (Mac) 1. Open the Print dialog box. 2. Choose the Paper Type/Quality pane.

3. Click the Paper tab. 4. From the Quality pop-up menu, select the appropriate speed and quality setting for your project: FastDraft: Prints at the fastest printing speed. Normal: Provides the best balance between print quality and speed. This setting is appropriate for most documents. Best: Provides high quality printing. Maximum dpi: Provides the highest quality prints possible, but requires longer to print than Best and requires a large amount of disk space. Set the paper type The default paper type setting for printing is based on the printing shortcut you select. If you print on special papers, you can change the paper type from the Properties dialog box.

To select a specific paper type (Windows) 1. Open the Printer Properties dialog box. 2. Click the Features tab. 3.

Click More in the Paper Type drop-down list, and then select the paper type that you want to use. 4. Click OK. 5. Select any other print settings that you want, and then click OK.

To select a specific paper type (Mac) 1. Open the Print dialog box. 2. Choose the Paper Type/Quality pane. 3. Click the Paper tab. 22 HP Photosmart Pro B9100 series printer 4. 5. In the Paper Type pop-up menu, click the appropriate paper type. Choose any other print settings that you want, and then click Print.

Print in grayscale You can print documents or photos in grayscale for dramatic black and white photos. To print in grayscale (Windows) 1. Open the Printer Properties dialog box. 2. Click the Color tab, and then click Print in Grayscale in the Color Options area. 3. In the Print in Grayscale drop-down list, select one of the following: Composite gray Gray inks only 4. Select any other print settings you want, and then click OK. To print in grayscale (Mac) 1. Open the Print dialog box.

2. Choose the Paper Type/Quality pane. 3. Click the Paper tab. 4.

In the Color pop-up menu, choose Grayscale. 5. Choose any other print settings that you want, and then click Print. Note For more information on color settings in the printer driver, see *Color management*. For more information on the HP printer driver: Windows: Right-click the HP Digital Imaging Monitor icon on the Windows taskbar and then select Launch/Show HP Solution Center.

Click Onscreen Guide and select the Help for your device. In the print dialog itself, right-click any option and click the What's This? box to learn more about that option. Mac: Choose Help, Mac Help in the Finder, and then choose Library, HP Photosmart Printer Help. Set the default print settings If you frequently print photos or documents on the same size and type of paper, you can set print defaults or presets with all your preferred settings. To change the default print settings (Windows) 1. In the HP Solution Center, click Settings, point to Print Settings, and then click Printer Settings. 2. Make changes to the print settings, and then click OK. To create presets (Mac) 1. On the File menu in your software program, click Print.

2. Choose the settings on each pane that you want to use frequently. HP Photosmart Pro B9100 series User Guide 23 Chapter 2 3. 4. In the Presets pop-up menu, choose Save as. Type the name of your new preset, and then click OK.



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Optimize print quality for slow computers The HP Photosmart Pro B9180 printer is capable of printing large images at high resolution. The associated files for such images are necessarily very large. The printer relies on your pc's ability to efficiently transfer these large files as the image is being printed. If you have a computer that is too slow, in CPU speed or RAM capacity for example, the print quality will not be optimum.

There are several things you can do to improve the print quality when printing from a slow computer: 1. 2. 3. 4. 5.

6. Close all open applications except the one you are printing from. Make sure there are no processes running in the background. Change your color management option to "Managed by Application." See Color management for more information.

Do not use/disable color management. If you are printing a landscape image, rotate it into portrait orientation and select portrait orientation in the driver before printing. Increase your system's RAM capacity. Increase your system's processor speed, or upgrade to a faster processor. Make the HP Photosmart Pro B9100 series the default printer Windows 2000 1. On the Windows taskbar, click Start, point to Settings, and then click Printers. 2. Right-click the HP Photosmart printer icon, and then click Set as Default Printer. Windows XP 1. On the Windows taskbar, click Start, and then click Control Panel.

2. Open Printers and Faxes. 3. Right-click the HP Photosmart printer icon, and then click Set as Default Printer. Mac 1. In the System Preferences, click Print & Fax, and then click Printing. 2. Choose an option from the Selected printer in Print Dialog pop-up menu. If you want the default printer always to be the same printer, choose that printer from the menu. The default printer does not change even after you print to a different printer.

If you want the default printer always to be the one you last printed to, choose Last printer used from the menu. The default printer changes whenever you print to a different printer. 24 HP Photosmart Pro B9100 series printer 3 Color management This section contains the following topics: What is color management? Use the HP Photosmart Pro print plug-in for Adobe Photoshop® Use application-based color management Use printer-based color management Note In this user guide, printer software refers to the HP Photosmart software that comes on the CD with the printer. The printer driver is the part of the printer software which controls the printer. What is color management? Color management affects the way the colors in your photos are printed.

Because the printer, image editing software programs, the operating system, and imaging devices such as cameras, scanners, and monitors, all display colors differently, the color management strategy you choose affects whether colors are printed more or less accurately. Color management is based on color spaces. Most imaging devices use the RGB color space, while commercial printers use the CMYK color space. The differences between the two color spaces can cause printed photos to look markedly different from what you see on the monitor. Color management is a complex subject and a detailed discussion is beyond the scope of this user guide, which only provides some typical examples.

For more information, see the documentation that came with your third-party image editing software program, or visit the HP Web site. Go to [www.hp.com/support](http://www.hp.com/support), select your country/region and your language, and then type HP Photosmart Pro B9100 in the product/name search box. Press ENTER and then select the HP Photosmart Pro B9100 series printer. In the Question or keywords search box type color management and then press ENTER. Click the topic you want to review. 1 2 3 Three-dimensional mathematical models for organizing color. The RGB color space creates colors by mixing red, green, and blue light. Technologies that rely on light (monitors, scanners, or digital cameras) use this color space.

The CMYK color space used in the printing industry is based on the light-absorbing qualities of ink printed on paper. CMYK stands for cyan, magenta, yellow, and black, the colors used in four-color process printing. 25 HP Photosmart Pro B9100 series User Guide Chapter 3 Choose a color management strategy Use the HP Photosmart Pro print plug-in for Adobe Photoshop®. Advanced color management Uses the Adobe Photoshop algorithms to produce high resolution prints Single streamlined dialog box with the most commonly used color management settings Use application-based color management.

Advanced color management Uses the Adobe Photoshop algorithms to produce high resolution prints Several dialog boxes for all the color management settings Use printer-based color management. Simple color management Uses the printer driver color management settings Tip 1 It is possible to have color management features turned on both in the printer driver and in a software program such as Adobe® Photoshop®. This double correction produces unsatisfactory results. Use either printer-based or application-based color management, but not both at the same time. Tip 2 Periodically, calibrate the printer color to ensure that the printer provides consistent and accurate color reproduction on all the supported paper types. See Align and calibrate the printer.

Use the HP Photosmart Pro print plug-in for Adobe Photoshop® The HP Photosmart Pro print plug-in for Adobe Photoshop streamlines the printing process and simplifies professional color management. The plug-in provides a central dialog box for color management and other print settings. It combines settings from the printer driver and the Adobe Photoshop Print with Preview dialog box so you no longer have to make your way through a confusing maze of dialog boxes each time you print. The HP Photosmart Pro print plug-in for Adobe Photoshop is installed automatically with the HP Photosmart printer software if you have Adobe Photoshop 7.0 on the same computer.

Note Adobe Photoshop is a standalone 3rd party software product, not included with the printer. For more information on application-based color management, see Use applicationbased color management. 26 HP Photosmart Pro B9100 series printer Start the HP Photosmart Pro print plug-in To start the plug-in 1. Open an image in Adobe Photoshop. 2.

Select File, point to Automate, and then click Photosmart Pro print.... The print preview area in the plug-in dialog box displays the current image in a scaled size in its true aspect ratio. Paper borders, if any, are displayed in their relative size and location. Use the handles to resize the image. Move the image around or crop it by dragging. Change the HP Photosmart Pro print plug-in defaults To change plug-in defaults 1. Open an image in Adobe Photoshop.

2. Select File, point to Automate, and then click Photosmart Pro print.... 3. Change the settings in the HP Photosmart Pro print plug-in. 4. Click Done. Install the HP Photosmart Pro print plug-in The HP Photosmart Pro print plug-in for Adobe Photoshop is installed automatically with the HP Photosmart printer software if you have Adobe Photoshop on the same computer.



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If you install Adobe Photoshop after you install the printer software, you can then install the HP Photosmart Pro print plug-in separately. To install the HP Photosmart Pro print plug-in (Windows) 1. Insert the HP Photosmart CD in the computer CD-ROM drive. 2. Click Install Photosmart Pro print, and then follow the onscreen instructions.

To install the HP Photosmart Pro print plug-in (Mac) 1. Click the HP Device Manager icon in the Dock. If the HP Device Manager icon is not in the Dock, choose Applications, Hewlett-Packard, and then HP Device Manager. 2. Click Maintain Printer.

3. Select the printer from the list, and then click Launch Utility. The HP Printer Utility appears. 4. Click Photosmart Pro print plug-in for Adobe Photoshop. 5. Click Install Photosmart Pro print. Use application-based color management Application-based color management offers more sophisticated control than the printer-based form, but also involves greater complexity and more steps. Using application-based color management involves: Using device profiles: Application-based color management relies on files called ICC4 device profiles. An ICC profile describes a device's color space.

The software program component of your color management system uses these profiles to 27 HP Photosmart Pro B9100 series User Guide Chapter 3 convert colors between each device's color space. The HP Photosmart Pro B9100 series software installation installs HP ICC profiles automatically for the printer.

Calibrating the monitor: Monitors exhibit a color degradation over time that can interfere with producing professional quality printed photography. As a result, the ICC profile that comes with most new monitors gradually becomes invalid and no longer accurately reflects the color space available on the device. Calibrating the monitor at least once a month to produce a custom ICC profile is the best way to ensure that the color space available on the monitor is accurately defined for your color management system. You can calibrate a monitor visually using a system or utility software program, such as Adobe

Gamma, but this type of calibration does not meet the high quality standards expected for professional photography. Professionals usually invest in a calibration kit consisting of a software program and a piece of hardware that captures the current state of the RGB environment on the monitor and saves it as a custom ICC profile. Monitor calibration kits are available from GretagMacBeth, Monaco Systems, and LaCie, as well as other manufacturers. To print using application-based color management features, you have to change settings in the printer driver and in the image editing software program. Here is one example of a typical print job using application-based color management in Adobe Photoshop (version 7 or CS).

See the documentation that came with your image editing software program for complete instructions on using the product's color management features. To print using application-based color management 1. Open the photo you want to print in Adobe Photoshop. 2. Select File, and click Print with Preview in Adobe Photoshop.

3. Make sure Show More Options is checked in the Print with Preview dialog box, and then select Color Management from the drop-down list. 4. In the Print Space area of the Print with Preview dialog box, select the appropriate HP Photosmart Pro B9100 series profile for the paper and ink set you are using. The HP Photosmart printer software installer installed several profiles for you automatically.

5. Select Perceptual from the Intent drop-down list. Selecting the Use Black Point Compensation option is also recommended. 6. Click Page Setup in the Print with Preview dialog box, set up the page for the current image, and then click OK. 7. Click Print. Windows users a. b. c.

d. e. Click Properties in the Print dialog box. Click the Color tab in the Print dialog box. Select Managed by application from the Color Management area of the Print dialog box, and then click OK. Click the Features tab, select an appropriate paper type from the Paper Type drop-down list, and then click OK.

Click OK. 4 International Color Consortium. ICC enables profile-based color management solutions. For more information, see [www.color.org](http://www.color.org). HP Photosmart Pro B9100 series printer 28 Mac users a. b. c.

8. Choose Paper Type/Quality in the Print dialog box. Choose Application Managed Colors from the Color pop-up menu. Select an appropriate paper type from the Paper pop-up menu. Click Print.

Use printer-based color management The HP Photosmart Pro B9100 series printer offers built-in automatic color management that is easy to configure. Printer-based color management produces attractive results and should be adequate for many users. Choose from the following printer driver color space settings based on the color space used by your imaging device and your usage of ICC profiles. Change these settings on the Color tab (Windows) or the Paper Type/Quality pane (Mac). For an example of how to change these settings, see To print using printer-based color management. Printer driver color space settings Setting Colors/sRGB (Default setting) The printer driver is set to Colors/sRGB by default because most imaging devices, such as monitors, cameras, and scanners, use sRGB. In this mode, the printer converts colors from sRGB to the printer ink colors. Tip Do not use this mode if you are also using ICC profiles and your software program to manage color. This can decrease the color fidelity since the colors are converted twice--first by the software program and then by the printer. Adobe RGB or Adobe RGB (1998) When your digital camera, scanner, or image editing software program is set to Adobe RGB For high quality digital photography When you are not using ICC profiles When to use it When your digital camera, scanner, or image editing software program is set to sRGB For the easiest, most basic form of color management When you are not using ICC profiles You can set some imaging devices to Adobe RGB, an enhanced version of the sRGB color space that was developed for high-fidelity digital photography.

In this mode, the printer converts colors from Adobe RGB to the printer ink colors. HP Photosmart Pro B9100 series User Guide 29 Chapter 3 Printer driver color space settings (continued) Setting Tip Do not use this mode if you are also using ICC profiles and your software program to manage color. This can decrease the color fidelity since the colors are converted twice--first by the software program and then by the printer. Application Managed Colors When to use it Application-based color management lets the image editing software program convert from the image color space to the printer ink colors. The conversion takes place in the image editing software program. In this mode, the printer does not do any color management. Using application-based color management involves changing settings both in the printer driver and in your software programs, and requires ICC profiles for all your devices.



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For more information, see *Use application-based color management*. When you want to use the color management features of an image editing software program, such as Adobe Photoshop For the greatest level of control over color quality When you want to use ICC profiles To print using the color management features built into the HP Photosmart Pro B9100 series printer, you have to change settings in the printer driver and in the image editing software program. Here is one example of a typical print job using printer-based color management with Adobe Photoshop (version 7 or CS).

To print using printer-based color management 1. Open the file you want to print in Adobe Photoshop. 2. Select File, and then click Print with Preview in Adobe Photoshop. Make sure Show More Options is selected in the Print with Preview dialog box, and then select Color Management from the drop-down list.

3. In the Print Space area of the Print with Preview dialog box, select the same RGB color space setting you intend to use in the printer driver (Windows). In most cases this is sRGB or Adobe RGB. On a Mac, choose Printer Color Management instead. 4.

Click Page Setup in the Print with Preview dialog box, set up the page for the current image, and then click OK. 5. Click Print. Windows users a. b. Click Properties in the Print dialog box. Click the Color tab in the Properties dialog box. 30 HP Photosmart Pro B9100 series printer c. d. Select a color space from the Color Management drop-down list: Colorsmart/sRGB (default) AdobeRGB Select the same color space you selected as an RGB working space in the Adobe Photoshop Color Settings dialog box.

Click the Features tab, select the desired paper type from the Paper Type dropdown list, and then click OK. Choose Paper Type/Quality in the Print dialog box. Choose a color space from the Color pop-up menu in the Print dialog box: Colorsmart/sRGB AdobeRGB Select the same color space you selected as an RGB working space in the Adobe Photoshop Color Settings dialog box. Mac users a. b. 6. Click OK. HP Photosmart Pro B9100 series User Guide 31 Chapter

3 32 HP Photosmart Pro B9100 series printer 4 Care and maintenance This section contains the following topics: Leave the printer on Replace the ink cartridges Replace faulty printheads Clean the printer Align and calibrate the printer Print a test page Print a sample page Download printer software updates Uninstall the printer software Follow the guidelines in this section to extend the life span of the printer and printing supplies, and to ensure that the photos you print are always of the highest quality. Leave the printer on HP recommends that you always leave the printer plugged in and turned on so that it can periodically perform self-servicing routines. If you leave the printer off for an extended period of time, you will experience a decline in print quality, automatic maintenance routines will need to be run, and you may have to replace one or more printheads.

The printer performs a self-servicing routine if the printer is idle for 24 hours or more. The length of time it takes for the servicing routine to be completed depends on how long the printer has been idle. As part of the servicing routine, a nozzle health sensor checks the printhead nozzles for blockages, clears any blockages found, if possible, and substitutes nozzles as needed. For more information on cleaning the printheads, see *Clean the printheads automatically and Clean the printhead nozzles manually*. Replace the ink cartridges For information on installing the ink cartridges and printheads the first time after you purchase the printer, see the *Quick Start guide*.

For optimal printing results, HP recommends using only HP ink cartridges. Inserting an incorrect cartridge may invalidate the printer warranty. HP does not recommend modifying or refilling HP cartridges. Damage that results from modifying or refilling HP cartridges is not covered by the HP warranty. For best print quality, HP recommends that you install all retail ink cartridges before the date stamped on the box.

Do not open the ink cartridge packet until you are ready to install the ink cartridge. HP Photosmart Pro B9100 series User Guide 33 Chapter 4 Check the ink levels To check the ink levels from the printer 1. Press Menu on the printer. 2. Press until you see Show ink level percentage on the printer screen. 3. Press OK. 4. Press to see the percentage of ink remaining in each ink cartridge. Note The ink levels shown are an estimate only.

Actual ink volumes may vary. To check the ink levels from the computer (Windows) 1. Right-click the HP Digital Imaging Monitor icon on the right side of the Windows taskbar, and then select Launch/Show HP Solution Center. 2. Click Settings, and then select Status. 3. Click the Estimated Ink Levels icon. Note The ink levels shown are an estimate only. Actual ink volumes may vary. To check the ink levels from the computer (Mac) 1.

Click HP Photosmart Studio in the Dock. 2. Click the Devices tab. 3. Choose Maintain Printer from the Settings pop-up menu. 4. Click Launch Utility. 5. Choose the Supplies Status pane. Note The ink levels shown are an estimate only.

Actual ink volumes may vary. Replace the ink cartridges For proper operation, install all of the following eight ink cartridges: HP 38 Photo Black (PK) Pigment ink cartridge HP 38 Light Gray (LG) Pigment ink cartridge HP 38 Matte Black (MK) Pigment ink cartridge HP 38 Cyan (C) Pigment ink cartridge HP 38 Magenta (M) Pigment ink cartridge HP 38 Yellow (Y) Pigment ink cartridge HP 38 Light Magenta (LM) Pigment ink cartridge HP 38 Light Cyan (LC) Pigment ink cartridge 34 HP Photosmart Pro B9100 series printer If you are replacing ink cartridges, check that you are using the correct cartridges. To replace the ink cartridges 1. Open the ink cartridge door by pressing the raised bumps at the top of the door until the door clicks open. 2. 3. Remove the ink cartridges that need to be replaced. Grasp a cartridge and pull it out of the stall. Shake the new ink cartridges vigorously, at least six times, before opening their packages. 4.

Unwrap the ink cartridges, and then insert each cartridge into its color-coded stall in the orientation shown. Press firmly on the cartridges to ensure proper contact. 5. Close the ink cartridge door. HP Photosmart Pro B9100 series User Guide 35 Chapter 4 Note All eight cartridges and four printheads must be correctly installed for the printer to work. If this is the first time you are installing the ink cartridges and printheads, see the *Quick Start guide* for information on the initial set up of ink cartridges and printheads. If you need to replace the printheads, see *Replace faulty printheads*. Follow these tips to help maintain HP ink cartridges and ensure consistent print quality: Keep all unused ink cartridges in their original sealed packages until they are needed. Store ink cartridges at room temperature (1535 degrees C or 5995 degrees F).



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Note Each ink cartridge has an expiration date.

When you receive an ink expiration message, you can continue printing by pressing OK on the control panel. HP recommends replacing the expired ink cartridges. HP cannot guarantee the quality or reliability of expired ink cartridges. Do not remove the plastic tape covering the gold contacts until you are ready to install the ink cartridge in the printer. If the plastic tape has been removed from the ink cartridge, do not attempt to reattach it.

Reattaching the tape damages the ink cartridge. Replace faulty printheads If a message appears on the printer screen directing you to replace a printhead, try cleaning the printheads. See Clean the printheads automatically. If you still see the message on the printer screen after you have cleaned the printheads, call HP support. If the support staff tell you that the printhead needs to be replaced, purchase a replacement printhead, and then follow these steps.

To purchase replacement printheads, go to: [www.hpshopping.com](http://www.hpshopping.com) (U.S.) [www.hpshopping.ca](http://www.hpshopping.ca) (Canada) [www.hp.com/eur/hpoptions](http://www.hp.com/eur/hpoptions) (Europe) [www.hp.com](http://www.hp.com) (All other countries/regions)

For proper operation, all of the following four printheads must be installed and in good condition: HP 70 Photo Black/Light Gray printhead HP 70 Matte Black/Cyan printhead HP 70 Magenta/Yellow printhead HP 70 Light Magenta/Light Cyan printhead 36 HP Photosmart Pro B9100 series printer To replace printheads 1. Open the top door. 2. @ @3. Raise the blue printhead assembly cover. Before you begin, notice the metal bar that holds down the cover. @ @5. Remove the faulty printhead. @ @ @ @ Be careful not to touch the gold-colored contacts on the printhead. @ @ Do not touch the gold-colored contacts on the printhead.

8. @ @ Wipe the printhead nozzles with the foam tip of the swab. Wipe along the length of the nozzles at least 3 times. 10. @ @ Press straight down on the printhead until it is all the way in.

@ @ @ @ 12. Close the top door. @ @ @ @ @ @ @ @ Turn off the printer by pressing the On button. 2. @ @ @ @ Caution Do not use any type of cleaning solution.

Household cleaners and detergents might damage the printer finish. 3. @ @ To clean the printheads automatically 1. Press Menu on the printer control panel.

2. Select Clean printheads, and then press OK. 3. @ @ Use Letter or A4-sized plain paper to conserve photo paper. 4. Press OK to begin cleaning the printheads.

@ @ For more information, see Clean the printhead nozzles manually. @ @ @ @ @ @ If the support staff tell you that the printhead needs to be replaced, see Replace faulty printheads for more information. Clean the printhead nozzles manually If you use the printer in a dusty environment, debris might accumulate on the gold-colored nozzles and cause printing problems. If you have tried cleaning the printheads automatically using the Clean printheads procedure from the control panel, and you are still experiencing image quality problems, you can clean the printhead nozzles manually using the following procedure. 40 HP Photosmart Pro B9100 series printer To clean the printhead nozzles 1. Gather the following items to clean the nozzles on the printheads: Distilled water (tap water might contain contaminants that can damage the ink cartridge). Cotton swabs or other soft, lint-free material that will not stick to the ink cartridge. Do not use a paper product, such as coffee filters or paper tissues. Sheets of paper or paper towels to rest the printheads on. 2.

Open the top door of the printer. 3. Press OK until the printhead assembly moves to the left side of the printer and stops. 4. Raise the printhead assembly cover.

5. Remove a printhead and place it on a piece of paper with the ink nozzle plate facing up. Caution 1 Do not touch the ink nozzle plate or gold-colored contacts with your fingers. Doing so will result in clogs, ink failure, and bad electrical connections. Caution 2 Do not leave the printhead outside the printer for more than 30 minutes.

Ink nozzles exposed to the air longer than this might dry out and cause printing problems. 6. Lightly moisten a cotton swab with distilled water and squeeze any excess water from the swab by pressing it against a clean plastic or tile surface. Do not use your fingers to squeeze the excess water from the swab, because the oil from your fingers could contaminate the swab. Gently wipe along the length of the nozzle plate on the printhead with the cotton swab. 7. 1 2 Ink nozzle plate Do not touch or clean the gold-colored contacts 8. 9. Repeat steps 6 and 7 until no ink residue or dust appears on a clean swab. Insert the printhead in the printer, and then close the top door.

@ @ Make sure that you have loaded HP Advanced Photo Paper - Glossy in the main tray, HP Photosmart Pro B9100 series User Guide 41 Chapter 4 and then click OK to perform the alignment and calibration. For information about alignment and calibration, see Align and calibrate the printer. Note If a message appears on the printer screen directing you to replace a printhead, call HP support. If the support staff tell you that the printhead needs to be replaced, see Replace faulty printheads for more information. Align and calibrate the printer The first time you install printheads in the printer or if you replace a faulty printhead, the printer performs a printer alignment and calibration automatically. However, if colors in the photos you print are misaligned, or if the alignment page does not print correctly when you install a new printhead, use the following procedures to align and calibrate the printer manually. For consistent and accurate color reproduction on all the supported paper types, be sure to calibrate the printer color periodically. Before aligning and calibrating the printer, check that you are using the correct paper. Use HP Advanced Photo Paper - Glossy for printhead alignment and printer color calibration. Use Letter or A4-sized paper.

If you use a different type of paper, the results may not be accurate. To align the printheads 1. Load Letter or A4-sized HP Advanced Photo Paper - Glossy in the main tray. 2. Press Menu on the printer control panel.

3. Select Calibrate printer, and then press OK. 4. Select Align printheads, and then press OK. To calibrate the printer color using closed loop calibration 1. Load Letter or A4-sized HP Advanced Photo Paper - Glossy in the main tray. 2. Press Menu on the printer control panel. 3. Select Calibrate printer, and then press OK. 4. Select Closed loop calibration, and then press OK. To reset the closed loop calibration 1. Load Letter or A4-sized HP Advanced Photo Paper - Glossy in the main tray. 2.

Press Menu on the printer control panel. 3. Select Calibrate printer, and then press OK. 4. Select Reset closed loop calibration, and then press OK. Print a test page You can print a test page to check the condition of the ink cartridges. The test page also contains useful information about the printer, including the printer serial number and firmware version. To print a test page 1. Press Menu on the printer control panel.



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2.

Select **Print test page**, and then press **OK**. 42 HP Photosmart Pro B9100 series printer Note The ink levels shown on the test page are an estimate only. Actual ink volumes may vary. Print a sample page You can print a sample page to verify that the printer can successfully print a photo. If you are having trouble printing a photo from your software program, use this option as part of the troubleshooting process to determine whether the problem is with the printer or software program.

To print a sample page 1. Load paper in the main tray. Use plain paper to conserve photo paper. 2. Press **Menu** on the printer control panel.

3. Select **Print a sample page**, and then press **OK**. Download printer software updates Download the latest printer software updates periodically to ensure you have the latest features and improvements. Note The printer software update that you download from the HP Web site updates only the printer driver. It does not update the HP Photosmart Premier software. To download the printer software (Windows) 1. Make sure the computer is connected to the Internet. 2.

From the Windows Start menu, select **Programs**, point to **HP**, and then click **HP Software Update**. 3.

Click **Next**. HP Software Update searches the HP Web site for printer software updates. If the computer has the most recent version of the printer driver installed, No updates are available for your system at this time appears in the HP Software Update window. If the computer does not have the most recent version of the printer driver installed, a software update appears in the HP Software Update window. 4. If a software update is available, check the box beside the update to select it. 5. Click **Next**. 6. Follow the onscreen instructions.

Note You can also download printer software updates by going to [www.hp.com/support](http://www.hp.com/support), selecting your country/region, entering the printer name in the search box, and clicking **Software & Driver Downloads**. To download the printer software (Mac) 1. Make sure the computer is connected to the Internet.

2. On your Mac in the **Finder**, choose **Go**, and then click **Applications**. HP Photosmart Pro B9100 series User Guide 43 Chapter 4 3. 4. Choose **Hewlett-Packard**, point to **Photosmart**, and then click **HP Photosmart Update**.

Follow the onscreen instructions to check for software updates. If you are behind a firewall, you need to enter the proxy server information in the updater.

Note You can also download printer software updates by going to [www.hp.com/support](http://www.hp.com/support), selecting your country/region, entering the printer in the search box, and clicking on **Software & Driver downloads**. Uninstall the printer software If you need to uninstall the printer software, follow these steps. Uninstall the printer software (Windows) 1. From the Windows Start menu, click **Programs** or **All Programs**, click **HP**, and then click **HP Photosmart Pro B9100 series**. 2.

Click **Uninstall**.

Uninstall the printer software (Mac) 1. Open the **HP Device Manager**. 2. Click **Uninstall** in the pop-up menu. The **HP Uninstaller** dialog box appears. 3. Click the printer, and then click **Uninstall**. 4. Click **Quit**, and then empty the **Trash**. 5.

Disconnect the printer from the computer, and then restart the computer. 44 HP Photosmart Pro B9100 series printer 5 Troubleshooting The printer is designed to be reliable and easy to use, but if you have any problems, refer to this section for possible solutions. It contains information about the following topics: Printer software installation problems Printer hardware problems Printing problems Error messages For additional troubleshooting information, see the electronic Help. Printer software installation problems Note Before contacting HP support, read this section for troubleshooting tips or go to the online support services at [www.hp.com/support](http://www.hp.com/support).

The name of HP support services may vary by country/region. If the printer software did not install successfully or if the printer and computer are not communicating properly after software installation, check this section for possible solutions. Before proceeding, check all cable connections between the printer and computer, and ensure that you are using the most recent version of the printer software. The **System Requirements** dialog box is displayed during installation Cause A component of the computer system does not meet minimum system requirements.

Solution Upgrade the component to the minimum system requirement and then reinstall the printer software. The computer could not read the HP Photosmart

CD Solution Make sure the CD is not dirty or scratched. If other CDs work but the HP Photosmart one does not, you might have a damaged CD. You can request a new CD from HP support. If other CDs do not work, you might need to service the CD-ROM drive. The installation software does not start

automatically when the CD is inserted (Windows only) Solution From the Windows Start menu, select **Run**. Click **Browse**, and then navigate to the CD drive where you inserted the HP Photosmart CD. Double-click the **setup.exe** file. HP Photosmart Pro B9100 series User Guide 45 Chapter 5 The Found New Hardware Wizard opens but doesn't recognize the printer (Windows only) Cause You might have connected the USB cable before completing the software

installation.

Solution Disconnect the USB cable and restart the software installation. Connect the USB cable when prompted during software installation. The computer stops responding during software installation Cause Virus protection software or another software program is running in the background and slowing down

the installation process. Solution Wait while the software finishes copying files; this might take several minutes. If, after several minutes, the computer is still not responding, restart the computer, pause or disable any active virus protection software, quit all other software programs, and then reinstall the printer software. Printer hardware problems Note 1 Before contacting HP support, read this section for troubleshooting tips or go to the online support services at

[www.hp.com/support](http://www.hp.com/support). The name of HP support services may vary by country/region. Note 2 If you want to connect the printer to a computer with a USB cable, HP recommends using a cable of less than 3 meters (10 feet) in length to minimize injected noise due to potential high electromagnetic fields.

The On light is flashing blue but the printer is not printing Solution The printer is busy processing information; wait for it to finish. The Attention light is flashing red Solution Check the printer and computer screens for instructions. For information on specific error messages see Error messages. If the Attention light continues to flash red go to [www.hp.com/support](http://www.hp.com/support).

com/support, or contact HP support. The Attention light is solid amber Solution Turn off the printer, and then unplug its power cord. Wait about 30 seconds, and then plug it in again. Turn on the printer. If the Attention light remains amber go to [www.hp.com/support](http://www.hp.com/support), or contact HP support.

46 HP Photosmart Pro B9100 series printer The Attention light flashed amber briefly after I turned the printer off Solution This is a normal part of the power-down process; it does not indicate a problem with the printer.



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