



MD-1300

User's Guide
PC Compatible

Photographic-Quality Color Printer

For US Customers:

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As an ENERGY STAR Partner, ALPS has determined that this product meets the ENERGY STAR guidelines for energy efficiency.

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Printed in Japan.



RADIO & TELEVISION INTERFERENCE

UNITED STATES. The equipment described in this guide generates and uses radio frequency energy. If it is not installed and used in accordance with the instructions in this guide, it may cause interference with radio and television reception.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

If necessary, you should consult your dealer or experienced radio/television technician for additional suggestions. You may find helpful the following booklet, prepared by the Federal Communications Commission: *How to Identify and Resolve Radio-TV Interference Problems*.

This booklet is available from the United States Government Printing Office, Washington, D.C. 20402. The booklet number is 004-000-00345-4.

Note: Changes or Modifications not expressly approved by the party responsible for compliance could void the user's right to operate this equipment.

Peripherals used in conjunction with this equipment must be connected via shielded interface cables. Use of unshielded interface cables may result in interference to radio and TV reception, and may void the user's right to operate this equipment.

Declaration of Conformity

Model Number: MD-1300
Trade Name: ALPS
Responsible party: ALPS ELECTRIC (USA), INC.
Address: 3553 North First Street, San Jose, CA 95134 USA
Telephone number: (408) 432-6000

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

IMPORTANT SAFETY INSTRUCTIONS

1. Read all of these instructions and save them for later reference.
2. Follow all warnings and instructions marked on the product.
3. Unplug this product from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use this product near water.
5. Do not place this product on an unstable cart, stand or table. The product may fall, causing serious damage to the product.
6. Slots and openings on the cabinet and the back or bottom are provided for ventilation. To ensure reliable operation of the product and to protect it from overheating, do not block or cover these openings. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product should never be placed near or over a radiator or heat register. This product should not be placed in a built-in installation unless proper ventilation is provided.
7. This product should be operated from the type of power source indicated on the marking label of the AC adaptor. If you are not sure of the type of power available, consult your dealer or local power company.
8. Do not allow anything to rest on the power cord. Do not locate this product where the cord will be walked on.
9. If an extension cord is used with this product, make sure that the total of the ampere ratings on the products plugged into the extension cord do not exceed the extension cord ampere rating. Also, make sure that the total of all products plugged into the wall outlet does not exceed 15 amperes.
10. Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a risk of fire or electric shock. Never spill liquid of any kind on the product.
11. Except as explained elsewhere in this guide, don't attempt to service this product yourself. Opening and removing those covers that are marked "Do Not Remove" may expose you to dangerous voltage points or other risks. Refer all servicing on those compartments to service personnel.
12. Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - A. When the power cord or plug is damaged or frayed.
 - B. If liquid has been spilled into the product.
 - C. If the product has been exposed to rain or water.
 - D. If the product does not operate normally when the operating instructions are followed. Adjust only those controls that are covered by the operating instructions since improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
 - E. If the product has been dropped or the cabinet has been damaged.
 - F. If the product exhibits a distinct change in performance, indicating a need for service.

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Introduction

Your new Alps MD-1300 Photographic-Quality Color Printer is the first versatile dye-sublimation printer to bring true photographic quality to the desktop. Using Alps' patented Micro Dry™ Photographic-Quality Inks and Photographic-Quality media you can print detailed, continuous-tone images, similar to photographs. Take images from a variety of sources — scanners, digital cameras, the Internet, PhotoCDs, and more. Edit, crop, and resize those images using the photo software provided, and print them out in rich, vivid, water-resistant color onto Photographic-Quality Paper and Labels.

The Alps MD-1300 Photographic-Quality Color Printer is also extremely versatile — it's almost like having two printers in one. Using the Alps standard Micro Dry™ inks and Alps special paper, you can print exquisite 1200 x 600 dpi color. You can even print 600x600 dpi color on T-shirt transfers, overhead transparencies, greeting cards, and more with fadeproof, smearproof, and waterproof inks. You can even use Micro Dry™ metallic inks to add sparkling touches to business cards, letterhead, and invitations.

Your new Alps MD-1300 Photographic-Quality Color Printer is easy to install and easy to use. The enclosed Quick Start Guide will get experienced users up and running quickly. This User's Guide will provide detailed information and instructions about set-up and operation, to help you take full advantage of this printer's many features.

Service, Support and Supplies

It is our goal to make your Alps MD-1300 ownership a satisfying experience. Our Alps support staff is available to assist you in setting up and operating your printer. If needed, our convenient repair service is at your disposal.

For US Customers

Please refer to the product support information below, or write us at Alps Electric (USA), Inc., 3553 North first Street, San Jose, CA, 95134.

Product Support

For information or assistance with the setup, operation, troubleshooting, or repair of your Alps MD-1300 printer, you may first wish to call the dealer from whom you purchased your printer. If necessary, please feel free to call the Alps Electric Help Desk at 1-800-449-2577, Monday through Friday, from 6:00 am through 6:00 pm Pacific time. You may also contact our CompuServe forum (GO ALPS), our web site (<http://www.alpsusa.com>), or our BBS (1-408-432-6424) at any time.

Supplies

Supplies such as ink cartridges, paper, transparencies, back print film or greeting cards are available through your Alps Dealer. For your added convenience, these supplies are available through Alps Direct Connect at 1-800-950-2577.

Warranty

Please refer to the Alps Warranty Card included with your MD-1300 printer.

For European Customers

Product Support

For information or assistance, refer to the service and support information below or write to ALPS ELECTRIC (IRELAND) LTD., Clara Road, Millstreet Town, Co. Cork, Ireland.

For freephone product information and technical support contact ALPS by dialling the number for your country.

Country	Telephone	Country	Telephone
Austria	06608375	Netherlands	060226732
Belgium	080072632	Norway	80011639
Denmark	80016059	Spain	900982907
Finland	0800113550	Sweden	020794434
France	0800907266	Switzerland	0800559953
Germany	0130825268	United Kingdom	0800973405
Italy	167780052	Portugal	050553050

If your country is not listed ALPS can be contacted at

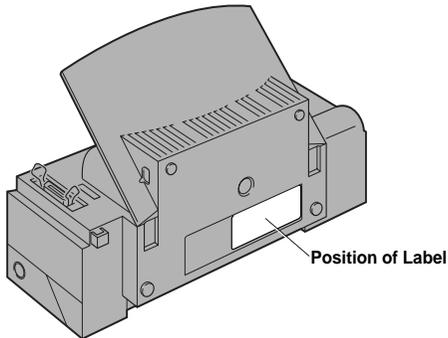
Telephone: +353-29-30118
Fax: +353-29-30124
e-mail: mdprinters@alps.ie
www: <http://www.alps.ie>

Warranty

Please refer to the Alps Warranty Card included with your MD-1300 printer.

Product Label

The label for this product can be found in the position shown below:



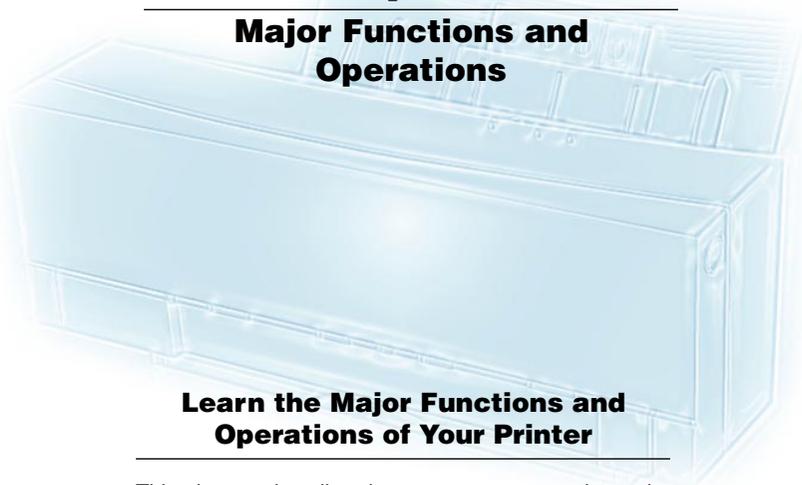
This label is applied to products.

ALPS ALPS ELECTRIC CO., LTD. MODEL MD-1300 AC 115V-230V 50Hz/60Hz 0.70A-0.39A	ALPS MD-1300 FC Tested To Comply With FCC Standards FOR HOME OR OFFICE USE	CE
UL LISTED I.T.E. 7K16	UL	TÜV GS PRODUCT SERVICE
This Class B digital apparatus meets all requirements of the Canadian interference-Causing Equipment Regulations. Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.		
MADE IN JAPAN st2		

MD-1300

Chapter 1

Major Functions and Operations



Learn the Major Functions and Operations of Your Printer

This chapter describes how to set up your printer, the name of each part of your printer and how it functions, how to insert the cartridges and paper, and how to install the printer driver into your computer. Read this chapter before you use the printer for the first time to learn how to set it up.

Photographic-Quality Color Printer

◀BACK

NEXT▶

Getting Your Printer Ready

Set up your printer by performing the following steps:

- Getting your printer ready.
Remove the packing materials.
- Connecting cables.
Connect the printer to your computer with a printer cable and to a suitable AC power source with the power cord.

Getting Your Printer Ready

Get your printer ready by removing the packing materials from inside and outside the printer.

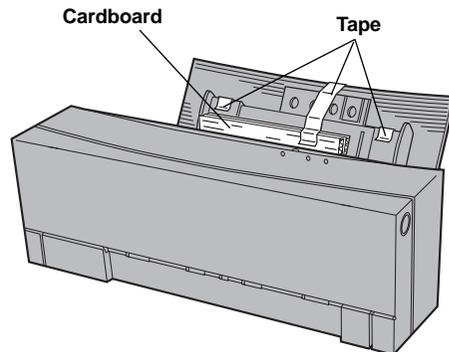


Caution

This printer is shipped with tape, spacers, and other packing materials to prevent delicate parts from being damaged while in transit. Remove these packing materials before using the printer. If the printer is used while these packing materials are still present, damage to the printer or malfunction may occur.

Removing the outside packing materials

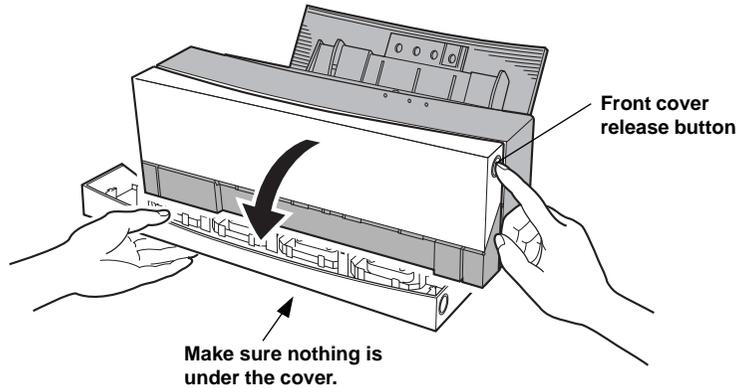
The printer is shipped with packing materials to prevent damage during transit. Remove the tape (three locations in front) and cardboard from the printer before using.



Opening the front cover

Open the front cover to remove the inside packing material.

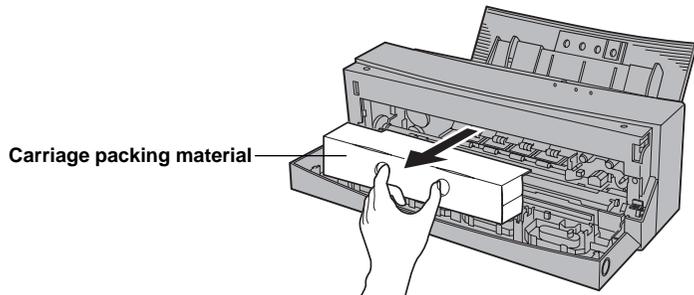
To open the front cover, push the front cover release button to release the internal lock. Gently lower the front cover with your hand.



Removing the carriage packing material

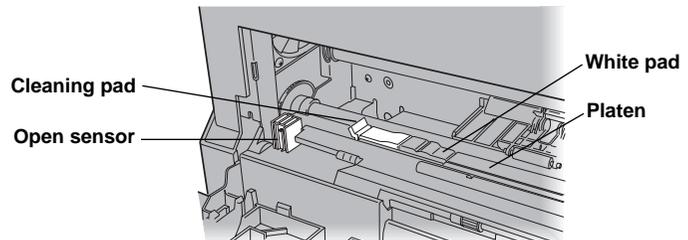
Remove the carriage packing material from inside the printer.

Using the printer without removing the packing materials can result in damage to the printer.



Caution

Do not remove the white pad or the cleaning pad at the left end of the platen. They are there to clean the print head. Removing them can cause the printer to malfunction. The cleaning pad is exchangeable for a new one when it gets dirty. Do not touch the open sensor, which is located inside the printer on the left end.



Closing the front cover

Close the front cover after removing the carriage packing material.



Caution

When closing the front cover, never slam it shut. The ink cartridges can become dislodged and damage to the printer may result.



Locating the printer

After removing the packing material from the outside and inside of the printer and reading the section "IMPORTANT SAFETY INSTRUCTIONS," position the printer in an appropriate location. Ensure there is enough space to use your printer easily.

Connecting Cables

When your printer is properly set up, connect the printer to your computer with a printer cable and to a suitable AC power source with the power cord.

- Connect the printer to your computer.
- Connect a power cord to the printer.

Connecting the printer to your computer

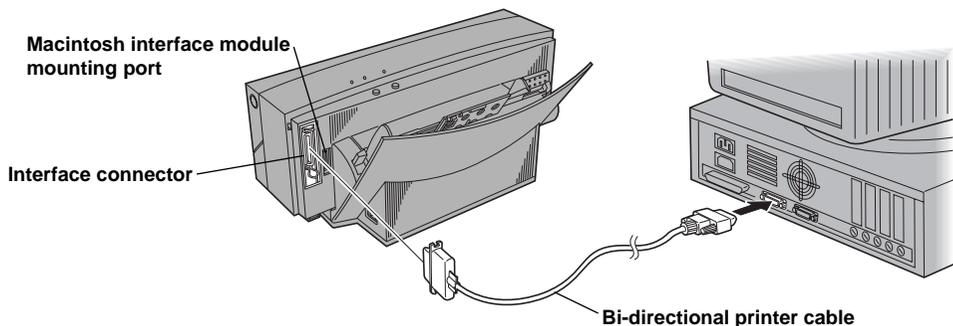
1. Make sure that the power to your computer is completely turned off. If the computer is running, quit all running applications, shut down the system, and turn off the power.



Caution

Power to the printer and computer must be completely disconnected before connecting or disconnecting the printer cable. (They must be unplugged.) Otherwise damage or malfunction may result.

2. Connect the printer to the computer with a printer cable. Secure the printer cable to the connectors on the printer and on the computer.

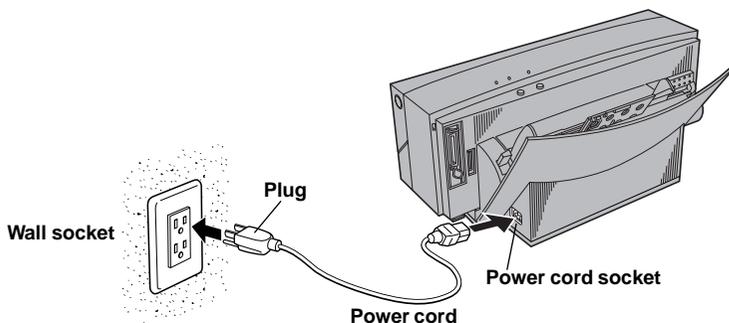


Note

When using your printer with a Macintosh computer, connect the printer to the computer using a Macintosh interface module.

Power cord connections

1. Plug the power cord into the power cord socket on the printer. Make sure that the power cord is securely seated in the socket.
2. Plug the free end of the power cord into a suitable AC power source (such as a wall socket).



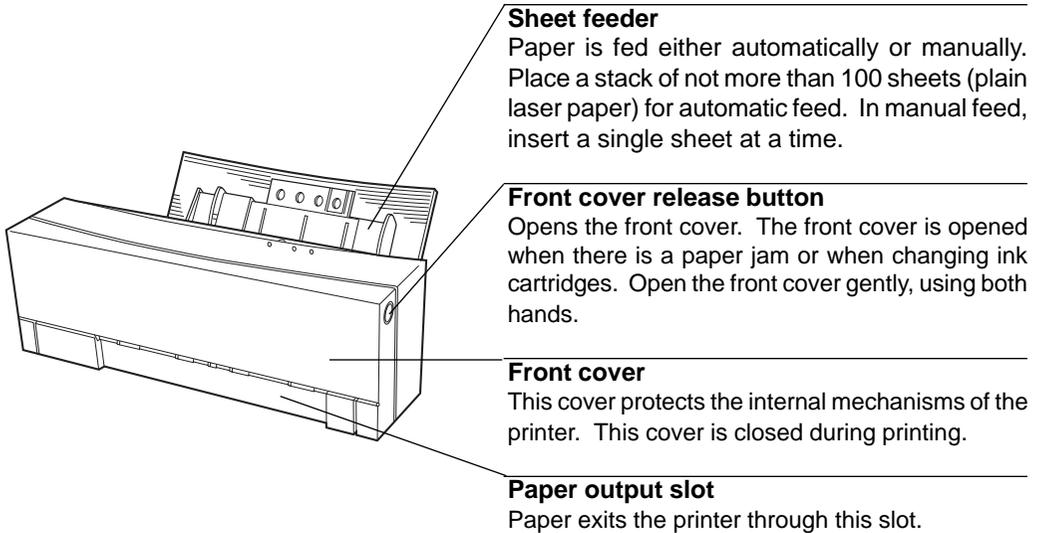
Caution

Power to the printer is completely cut off only when the cord is unplugged. Place the printer where you can easily unplug it from the wall socket. Also, pull the plug and not the cord when unplugging the printer.

Name and Function of Each Part of the Printer

This section explains the name and function of each part of the printer.

Printer (Front View)



Sheet feeder

Paper is fed either automatically or manually. Place a stack of not more than 100 sheets (plain laser paper) for automatic feed. In manual feed, insert a single sheet at a time.

Front cover release button

Opens the front cover. The front cover is opened when there is a paper jam or when changing ink cartridges. Open the front cover gently, using both hands.

Front cover

This cover protects the internal mechanisms of the printer. This cover is closed during printing.

Paper output slot

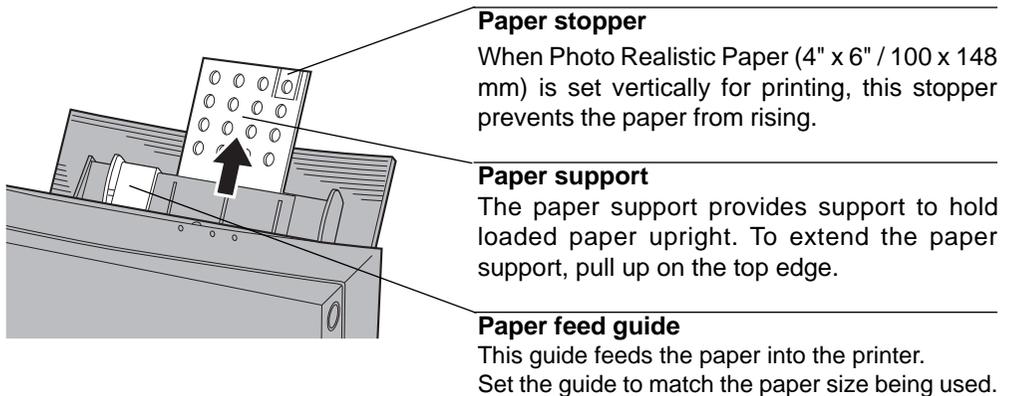
Paper exits the printer through this slot.



Caution

Never reach into the printer while it is operating. Injury may result.

Do not open the front cover while the printer is running.



Paper stopper

When Photo Realistic Paper (4" x 6" / 100 x 148 mm) is set vertically for printing, this stopper prevents the paper from rising.

Paper support

The paper support provides support to hold loaded paper upright. To extend the paper support, pull up on the top edge.

Paper feed guide

This guide feeds the paper into the printer. Set the guide to match the paper size being used.



Caution

Never reach into the sheet feeder. By doing so, you might get injured, or the printer might malfunction.

Printer (Rear View)

EXT connector

This part is not used when your printer is connected to a PC. This is where the Macintosh interface module is connected when using your printer with a Macintosh computer. When connecting the Macintosh interface module, make sure you remove the seal before connecting.

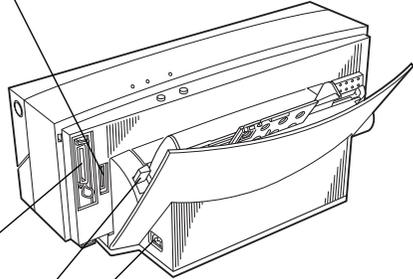
The Macintosh interface module (part number 105715-00) is also available as an option.

Parallel interface connector

The printer cable is connected to the parallel interface connector.

Paper feed switch

This switch sets the paper feeding method to either automatic feed mode or manual feed mode.



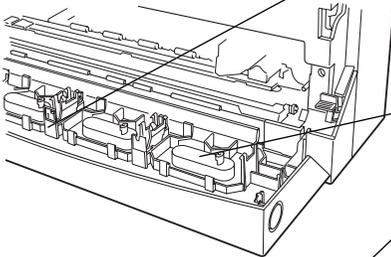
Power cord socket

This is where the power cord is connected to the printer.

Inside the Printer

Marking sticker

This allows you to confirm that the carriage is in the standard position. Try not to smear the face of the sticker. If it gets dirty, gently clean it with a dry cotton swab. As you do so, be careful not to peel it off.

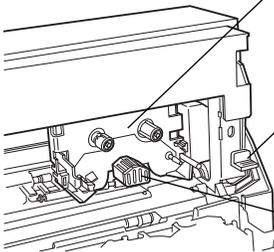


Ink cartridge holder plate

This tray holds the ink cartridges. The four holder plates hold the ink cartridges needed for a particular printing job.

Carriage

The carriage automatically picks up the specific ink cartridge needed for printing and moves it to the printing location. The carriage also contains the print head.



Release lever

This lever is used to clear paper jams. When the lever is pressed down the paper can be removed. The release lever is to the right of the carriage and platen. Close the front cover, and the lever will automatically go back to its original position.

Print head

The print head prints the characters. Do not touch it.

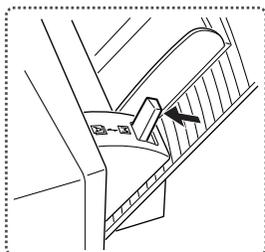


Caution

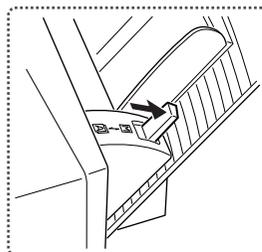
Do not touch the print head or the carriage. Doing so can cause damage to the printer. Also, never load an ink cartridge directly into the carriage. Malfunction or damage to the printer may result.

Paper Feed Switch

For continual printing using automatic feeding, set the paper feed switch to position “A”. To manually feed paper, set the paper feed switch to position “M”. To use Photo Realistic Paper (4" x 6" / 100 x 148 mm), set the paper feed switch to position “M” for both automatic and manual feeds.



Paper feed switch set in position “A”



Paper feed switch set in position “M”



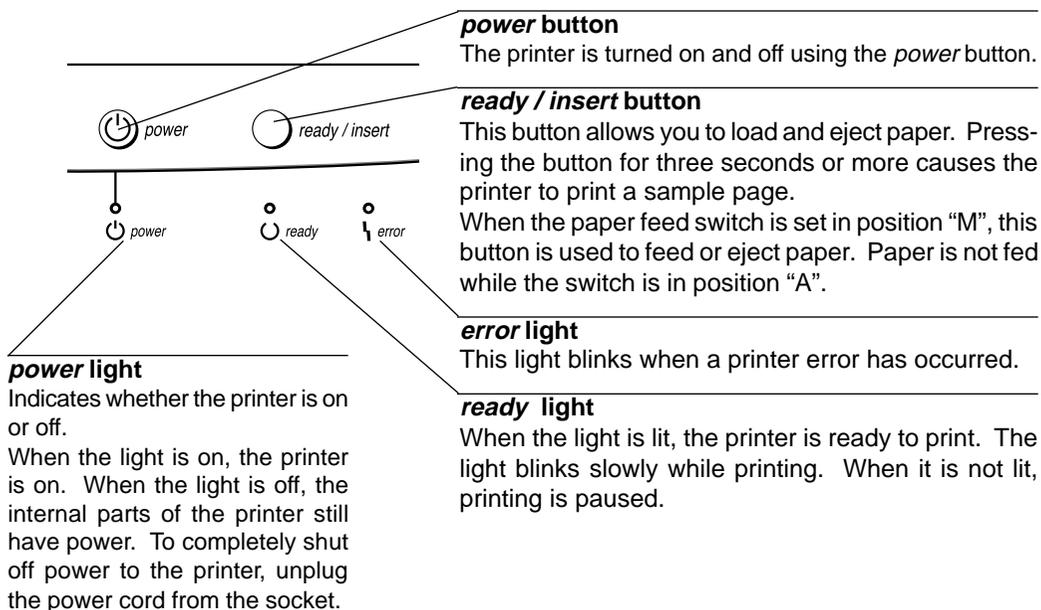
Note

Do not move the paper feed switch while paper is being fed. Otherwise, the paper may feed in incorrectly.

Move the paper feed switch until it clicks into position “M” or “A”. Paper will not feed properly unless the switch is correctly set to “M” or “A”.

Control Panel

The top portion of the printer has two buttons and three LED indicator lights. By pushing one of these buttons and looking at the lights, you can perform various printer functions, such as ejecting paper. This portion with the buttons and the lights is called the control panel.



Installing Ink Cartridges

This section describes how to identify ink cartridge types, and how to install and exchange cartridges.

Identifying Ink Cartridge and Paper Types

The ink cartridge type is indicated on the surface of each cartridge.



The product name and part number in this area.

List of Cartridge type

Printing type	Ink cartridge type (Part number)	Matching paper type For US customers	For European customers
Full color printing	Black (106005-00)	Plain paper Laser paper	Plain paper Laser paper
	Yellow (106010-00)	High Grade Paper (106085-00)	High Grade Paper (106085-00-EU)
	Magenta (106015-00)	Iron-on Transfer Sheets (106075-00)	Iron-on Transfer Sheets (106075-00)
	Cyan (106020-00)	Overhead Projector Transparency Film (106065-00) Letter Greeting Card Set (Plain side only) (106090-00)	Overhead Projector Transparency Film (106065-00-EU) A4 Greeting Card Set (Plain side only) (106090-00)
	Multicolor* (106025-00)		
600 x 600 dpi full color printing with photo realistic finishing	Yellow (106010-00)	Laser paper High Grade Paper (106085-00)	Laser paper High Grade Paper (106085-00-EU)
	Magenta (106015-00)	Greeting Card Set (Plain side only) (106090-00)	Greeting Card Set (Plain side only) (106090-00)
	Cyan (106020-00)		
	Finish (106054-00)		
1200 x 600 dpi full color printing with photo realistic finishing	Yellow (106010-00)	High Grade Paper (106085-00) Photo Realistic Paper Letter (105720-00)	High Grade Paper (106085-00-EU) Photo Realistic Paper A4 (105720-00-EU)
	Magenta (106015-00)	Photo Realistic Paper 4x6 (105721-00)	Photo Realistic Paper 100x148mm (105721-00)
	Cyan (106020-00)	Photo Realistic Labels (105108-00)	Photo Realistic Labels (105108-00-EU)
	Finish (106054-00)		
Spot color printing	Metallic Gold (106030-00)	Plain paper Laser paper	Plain paper Laser paper
	Metallic Magenta (106035-00)	High Grade Paper (106085-00) Greeting Card Set (106090-00)*1	High Grade Paper (106085-00-EU) Greeting Card Set (106090-00)*1
	Metallic Cyan (106040-00)	Iron-on Transfer Sheets (106075-00)*2	Iron-on Transfer Sheets (106075-00)*2
	Metallic Silver (106045-00)	Overhead Projector Transparency Film (106065-00) Letter*2 Back Print Film (106080-00)*2	Overhead Projector Transparency Film (106065-00-EU) A4*2 Back Print Film (106080-00)*2
	White (106050-00)		
	Finish (106054-00)	Laser paper High Grade Paper (106085-00) Greeting Card Set (Plain side only) (106090-00)	Laser paper High Grade Paper (106085-00-EU) Greeting Card Set (Plain side only) (106090-00)
Photographic-Quality	Photo Cyan (105812-00)	Photographic-Quality Paper Letter (105822-00)(Glossy side only)	Photographic-Quality Paper A4 (105822-00-EU)(Glossy side only)
	Photo Magenta (105814-00)	Photographic-Quality Paper 4x6 (105824-00)(Glossy side only)	Photographic-Quality Paper 100x148mm (105824-00)(Glossy side only)
	Photo Yellow (105816-00)	Photographic-Quality Labels (2 stickers)(105848-00) (Glossy side only)	Photographic-Quality Labels (2 stickers)(105848-00) (Glossy side only)
	Photo Overcoat (105818-00)	Photographic-Quality Labels (20 stickers)(105848-00)(Glossy side only)	Photographic-Quality Labels (20 stickers)(105848-00)(Glossy side only)

* Multicolor ink cannot be used for iron-on Transfer Sheets, Overhead Projector Transparencies, or Back Print Film.

White ink

*1 White ink can be used for printing on glossy side of greeting card but quality cannot be guaranteed.

*2 The white ink can be used with products marked with a “*2”.



Caution

- The manufacturer only supports printing with the listed cartridge-paper combinations.
- Printing with an inappropriate ink cartridge-paper combination can damage the cartridge ribbon.
- Printing outside the printable area of a sheet can damage the cartridge ribbon. Always print within the printable area of a sheet (See “Printable Area” in Appendix).

Installing Ink Cartridges

Install ink cartridges by following the steps below.



Note

The carriage can select and pick up the necessary ink cartridge from any holder. Putting several ink cartridges of the same color in the holders can reduce the need to change ink cartridges.

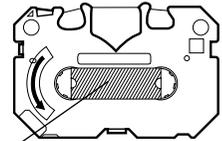


Caution

The ink cartridges may be put in any holder but **DO NOT** put ink cartridges directly into the carriage. Doing so may result in damage the printer.

1. Remove the stopper from the ink cartridge.

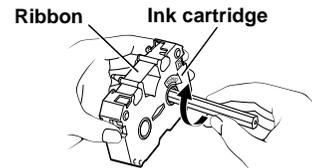
First, remove the stopper from the ink cartridge.



Stopper (To prevent slack in the ribbon)

2. Take up any slack in the ribbon.

Insert a pencil from the side marked "B" (the side with ALPS logo). Turn the pencil slowly to take up any slack in the ribbon.



3. Open the front cover.

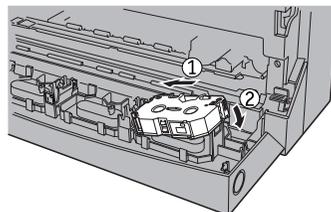
Push the front cover release button to release the internal lock. Gently lower the front cover with your hand.

4. Place the ink cartridges.

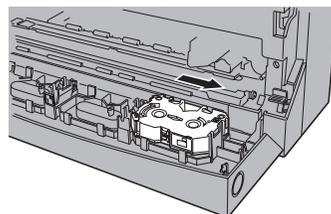
- Hold the ink cartridge so that the side with the letter "B" and the manufacturer's logo faces upward, and the "B" is at the upper right of the ink cartridge. Hold the center of the ink cartridge with your thumb and index finger.



- Insert the left end of the ink cartridge, while pushing the left side latch of the ink cartridge holder slightly to the left with the ink cartridge.



- Push down the right side of the ink cartridge. Make sure that the ink cartridge is securely locked into the holder, and that there is no slack in the ribbon.



Caution

Place the side marked "B" face up. If the ink cartridge is installed upside down, the printer will not know it has been installed.

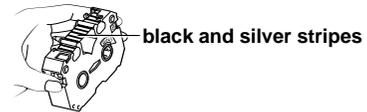
Exchanging Ink Cartridges

When you want to change ink cartridges or replace a cartridge whose ribbon has been used up, exchange cartridges by following the steps below.



Note

When an ink cartridge has been used up, black and silver stripes will be visible on the ribbon.

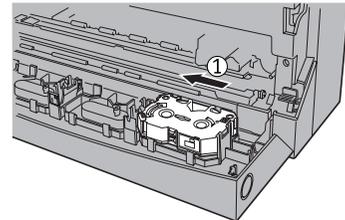


1. Open the front cover

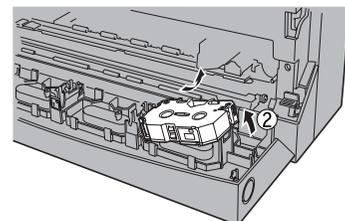
Open the front cover by pushing the front cover release button.

2. Remove the ink cartridge

- Removing a cartridge is similar to installing it. Hold the center of the ink cartridge with your thumb and index finger. Push the left latch on the ink cartridge holder slightly to the left with the cartridge.



- Lift up the right side of the cartridge, then remove the entire ink cartridge.



3. Place a new ink cartridge on the ink cartridge holder plate.

Place an ink cartridge by following the steps described in the previous section of "Installing Ink Cartridges."

Chapter 1

Loading Paper

This section explains how to load paper into the printer.

Paper Types and Available Feeding Modes

See the table below for information on switching between automatic and manual feeds, and on setting the paper feed switch ("A" or "M").

Media type	Automatic feed mode	Manual feed mode
Plain paper (for plain paper copiers)	A	M
Laser paper / High Grade Paper	A	M
Photo Realistic Paper (Letter / A4)	x	M
Photo Realistic Paper (4" x 6" / 100 x 148 mm)	M*1	M
Photo Realistic Labels	x	M
Overhead Projector Transparency Film	A	M
Iron-on Transfer Sheets	x	M
Back Print Film	x	M
Other (thick paper, etc.)	x	M
Photographic-Quality Paper (Letter / A4)	A*2	M
Photographic-Quality Paper (4" x 6" / 100 x 148 mm)	A*2	M
Photographic-Quality Labels	A*2	M

*1 For Photo Realistic Paper (4" x 6" / 100 x 148 mm), always set the switch to position "M", regardless of feed mode.

*2 To continuously print Photographic-Quality Paper or Labels, always use the guide sheet (included in the supplies).



Caution

Do not print on thermal paper, paper exclusively for use in ink jet printers, glossy paper (paper whose surface has been specially treated), and envelopes. Doing so may damage the printer.



Note

Loading too many sheets into the sheet feeder may cause paper jams or misfeeding.

Be aware that when using automatic feed mode, the last sheet to feed will occasionally feed incorrectly depending on the paper type.

Notes and precautions about paper

The printer's sheet feeder can feed paper to the printer automatically. It holds up the 100 sheets of plain paper (or 30 transparencies) at once.

Iron-on transfer sheets, thick paper, and other kinds of special printing media should be used in manual feed mode.

Normally it is most convenient to use automatic feed mode.

The approximate thicknesses of paper that can be used in manual feed mode or automatic feed mode are as follows:

Automatic feed mode 0.07 mm - 0.1 mm (0.003" - 0.004")

Manual feed mode 0.07 mm - 0.23 mm (0.003" - 0.01")



Caution

In automatic feed mode, never use paper in the sheet feeder with thickness outside the range 0.07 mm - 0.1 mm (0.003"-0.004"). In manual feed mode, never use paper whose thickness is outside the range 0.07 mm - 0.23 mm (0.003"-0.01"). Doing so may cause paper jams or cause damage to the printer.

Also, paper jams can be caused by paper that is extremely smooth or shiny, paper that is too rough, or paper that easily picks up static electricity.

Paper jams and other paper feed problems can tear the ribbons in ink cartridges. To avoid such problems, please note the following precautions:

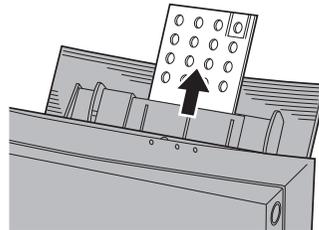
- Always use the recommended paper types, and be sure to set the printer's paper options properly. Settings that are not appropriate for the paper being used can cause paper jams.
- When printing on Photographic-Quality Paper or Photographic-Quality Labels, use only Photographic ink cartridges to print on the glossy printable side.
- When printing on Photographic-Quality Paper or Photographic-Quality Labels, be sure to confine your printing to the glossy printable area. If you print outside this area, you may damage the Photographic ink cartridge.
- When printing on a thick sheet, allow a 1/2 inch (12 mm) margin on the left and right side to prevent tearing the ink cartridge ribbon by printing over the paper edge.
- When printing on a thick postcard-size sheet that is not a regular postcard, allow a 1/2 inch (12 mm) margin on the left and right side to prevent tearing the ink cartridge ribbon by printing over the paper edge.
- When printing on used sheets (already printed on the same side), use manual feed only. Automatic feed may not feed used sheets properly.
- When you use manual feed, avoid repeatedly inserting and removing the same sheet.

Loading Paper in Automatic Feed Mode

Use automatic feed mode to allow consecutive printing.
There are two methods for loading paper, depending on the media.

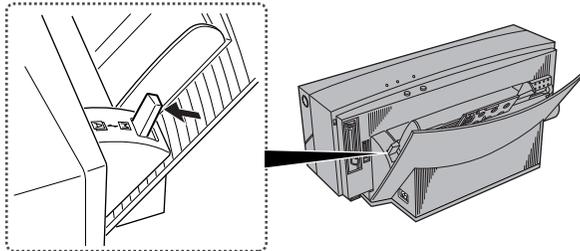
Letter / A4 size of High Grade Paper, plain paper, laser paper, and transparencies

1. Pull out the paper support.

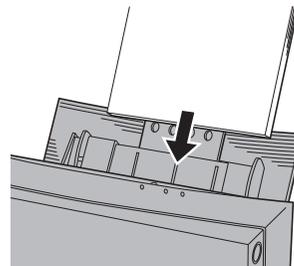


2. Switch the paper feed mode.

Place the paper feed switch in position "A".



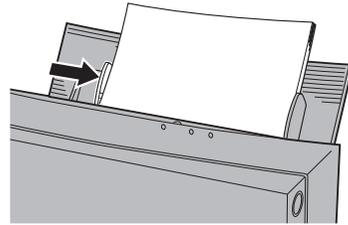
3. Place the paper in the sheet feeder.



Note

- Using creased or curled paper can cause the paper to misfeed.
- Fan the paper once before placing it in the sheet feeder. The printer may feed two sheets together if the sheets are slightly stuck together.
- Use only one type of paper at a time.
- Pushing the paper feed guide too hard against the paper can bend the paper. Adjust the position of the paper feed guide so that it just touches the paper.

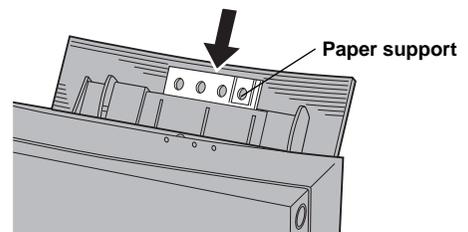
- Adjust the paper feed guide to the paper size.



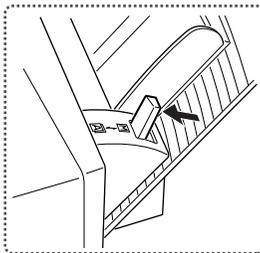
4" x 6" / 100 x 148 mm Photo Realistic Paper, Photographic-Quality Paper, and Photographic-Quality Labels

Up to 20 sheets of paper can be loaded at a time.

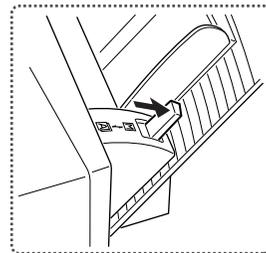
- Push the paper support in.



- For Photo Realistic Paper (4" x 6" / 100 x 148 mm) set the paper feed switch to position "M". For Photographic-Quality Paper (4" x 6" / 100 x 148 mm) or Photographic-Quality Labels, set the paper feed switch to position "A".



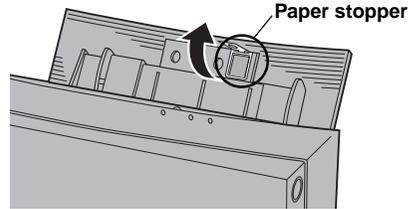
Paper feed switch set in position "A"



Paper feed switch set in position "M"

3. Lift the paper stopper.

Gently press the upper part of the paper stopper to raise its lower part. If the stopper is forced upward, it may slip out.

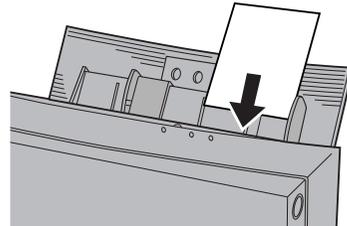


Note

To load Photographic-Quality Paper (4" x 6" / 100 x 148 mm) or Photographic-Quality Labels, do not lift the paper stopper.

4. Load paper.

Extend the paper feed guide until it is slightly wider than the paper to be used. Riffle the sheets of paper, and then insert them into the sheet feeder so that the right edge of the paper is flush with the right edge of the guide. Set the sheets with the printing surface facing upward.



Note

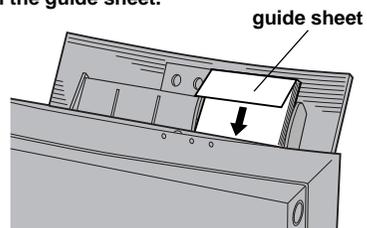
Riffle the sheets before loading them into the sheet feeder. If the sheets adhere to one another during loading, multiple sheets may be fed in together.

Make sure that the paper has no more than 0.2" / 5 mm of bend. If the paper used is significantly bent, print quality may be degraded.



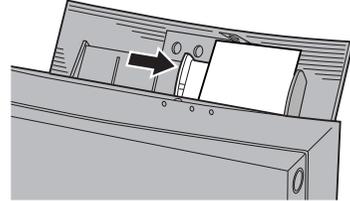
Note

For continuous printing on Photographic-Quality Paper (4" x 6" / 100 x 148 mm) or Photographic-Quality Labels, load the guide sheet supplied with the paper into the sheet feeder. Then place the sheets or labels on the guide sheet.



5. Adjust the paper feed guide to the paper size.

Move and adjust the paper feed guide to the width of the paper. Adjust positioning so as not to bend the sheets or create any gap between the sheets and the guide.



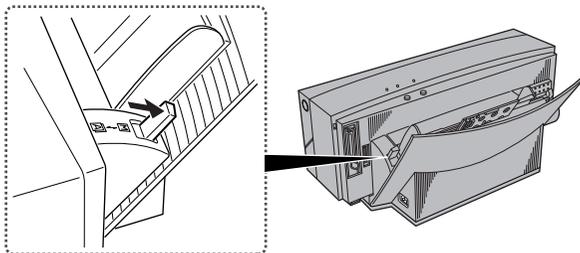
Loading Paper in Manual Feed Mode

Use manual feed mode when printing iron-on transfer sheets, back print film, and other special media (such as cards, thick paper, etc.).

In manual feed mode you should load only one sheet at a time.

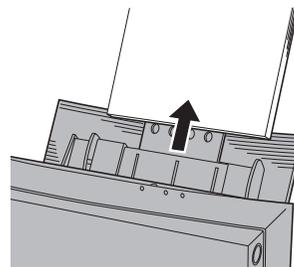
1. Switch the paper feed mode.

Set the paper feed switch to position "M".

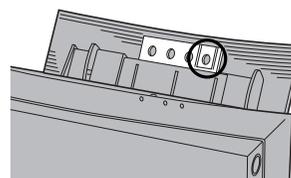


Caution

- Remove any paper from the sheet feeder.

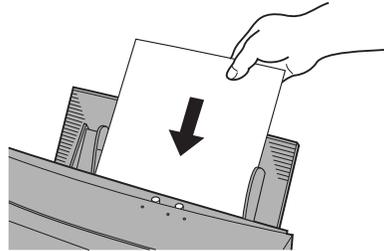


- Make sure that the paper stopper is not lifted.

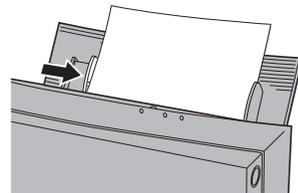


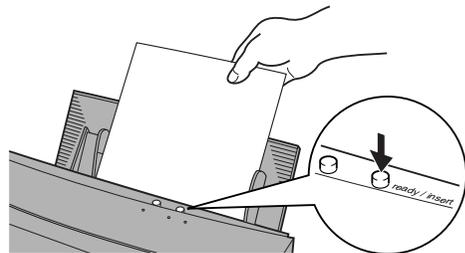
2. Insert paper.

Insert paper straight into the sheet feeder.

**Note**

- Paper that is erased or curled may print incorrectly.
- Make sure that you insert the paper straight. Inserting it at a slant can cause a paper jam.

3. Adjust the paper feed guide to the paper size.

4. Press the *ready / insert* button. The paper is automatically pulled into the printer.

Installing the Printer Driver

Before you can use your printer, you need to install the MD-1300 printer driver software so that your computer can work with the MD-1300 printer.

This section describes how to install the MD-1300 printer driver.

Purpose of the Printer Driver

The printer driver is a control program necessary for proper printing. When printing from an application in Windows, you must use a printer driver that matches the functions of the printer being used. It is necessary to select the printer driver specifically designed for your printer in order to secure the desired printing results. When you use an application to create a document and the printer driver selected is inappropriate for the printer that will be used to print the document, only print settings that match the functions of the printer will be valid. To take advantage of the many features of the MD-1300, create your documents after selecting the MD-1300 printer driver.

System Requirements

The system requirements for the MD-1300 printer driver are as follows:

Computer: IBM PC-AT or compatible

Windows: Microsoft Windows 3.1 or later
Microsoft Windows 95

Disk space required during printing (approximate):

	Monochrome image	Color image
Photo Realistic Printing	16MB	30MB
Photographic-Quality Color Printing	40MB	40MB

Total RAM: 16 MB or more (32 MB or more is recommended)

* The above are approximate figures of the total disc space required when printing at 300 x 300 dpi.



Note

The working disk space needed during printing is automatically erased after printing is completed.

Installing the Printer Driver

The Printer Driver is contained in the ALPS Installation CD ROM. Follow the instructions on the CD sleeve to start up the CD ROM, then read the Readme file for detailed Printer Driver installation instructions. To install click on the printer driver installation button, and then follow the on screen instructions to complete the installation.

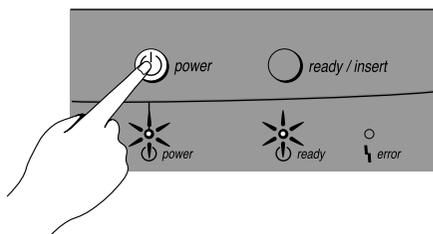
Turning the Power On or Off

Turn your printer and computer on or off by following the steps described below.

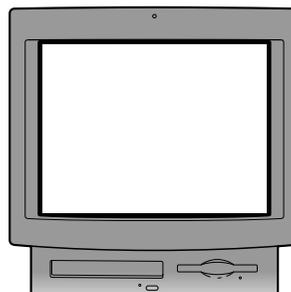
Turning on the Power

Turn on the power by performing the following steps.

1. Push the **power** button on the printer to turn it on.



2. Turn on your computer.



Turning off the Power

When you finished printing, turn off your printing devices by performing the following steps.

1. Quit Windows, and then turn off your computer.
2. Push the **power** button on the printer to turn it off.

Printing Operations

When you have connected the cables to your printer, and have installed the printer driver, you are ready to use your printer. This section describes step by step operations of monochrome and color printing.

Printing (Monochrome)

This section explains how to perform black & white printing on plain paper.

Requirements

You need the following items for black & white printing.

- **Ink cartridge**
Black ink cartridge (Part No. 106005-00)
- **Media**
High Grade Paper (Letter / A4 size)(Part No. 106085-00 / 106085-00-EU), laser paper or plain paper for copiers.
- **Printing data for black printing**
Printing data consisting of text and/or graphics created by an application.

Placing an ink cartridge in your printer

Make sure at least one black ink cartridge is installed in the ink cartridge holders.



Black ink cartridge



Note

- If at least one of the ink cartridges in the four ink cartridge holders can be used in the selected printing mode, the carriage will automatically pick up that ink cartridge.
- See chapter 1, "Getting Your Printer Ready" for directions on installing ink cartridges.
- Installing multiple ink cartridges of the same color allows you to print more pages without stopping to replace spent ink cartridges.

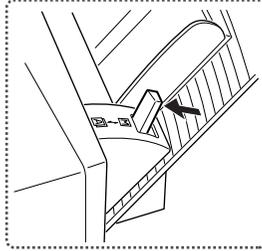


Caution

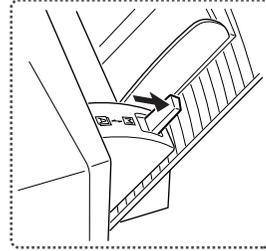
Do not place an ink cartridge directly into the carriage. Doing so may damage the printer.

Loading the paper in your printer

1. For manual feed mode, set the paper feed switch to position “M”; for automatic feed mode, set it to “A”.

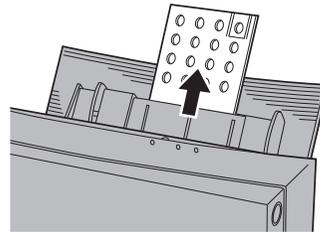


Paper feed switch “A”



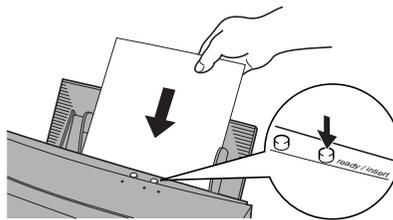
Paper feed switch “M”

2. Fully extend the paper support.

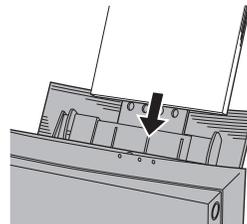


3. Adjust the paper feed guide to the width of the paper.

4. For manual feeding, load one sheet of paper into the sheet feeder and press the *ready/insert* button. For automatic feeding, load all of the sheets together.



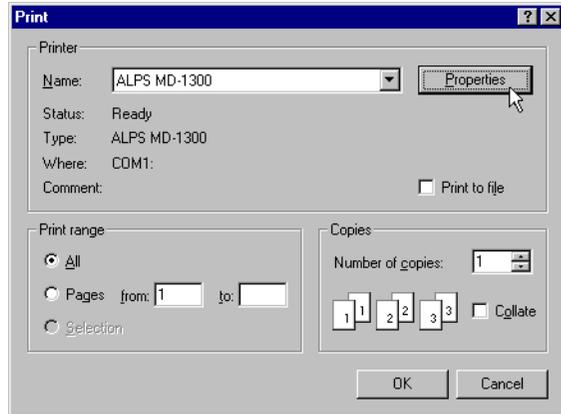
Manual feeding



Automatic feeding

Setting up the printer driver for printing

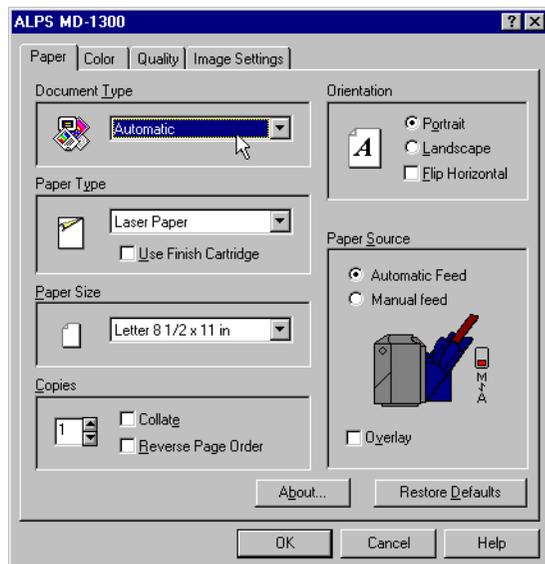
1. In the application you want to print with, select **Print** from the **File** menu to open the **Print** dialog box.



Note

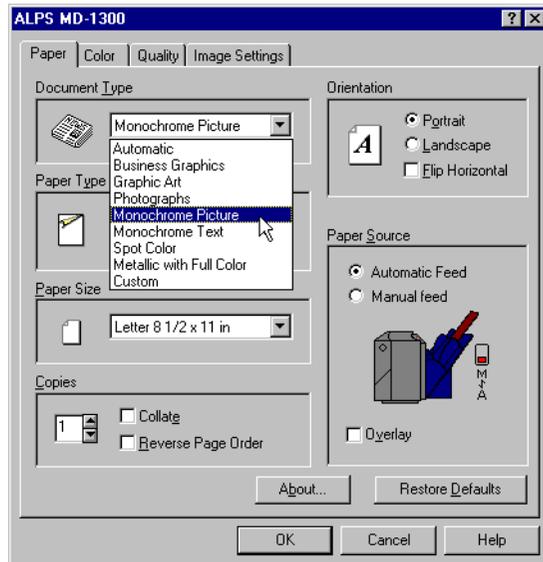
Please note that the procedure for opening the dialog box of ALPS MD-1300 driver may differ slightly from one application to another.

2. Click **Properties**.
ALPS MD-1300 Properties dialog box appears.

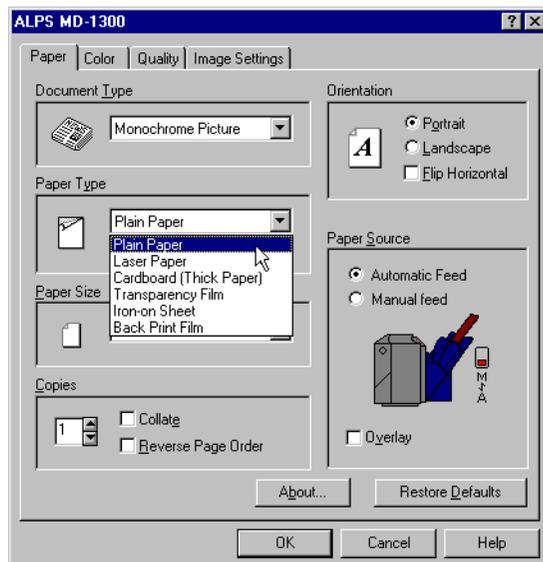


3. **Select either Monochrome Picture or Monochrome Text in the Document Type setting of the Paper tab.**

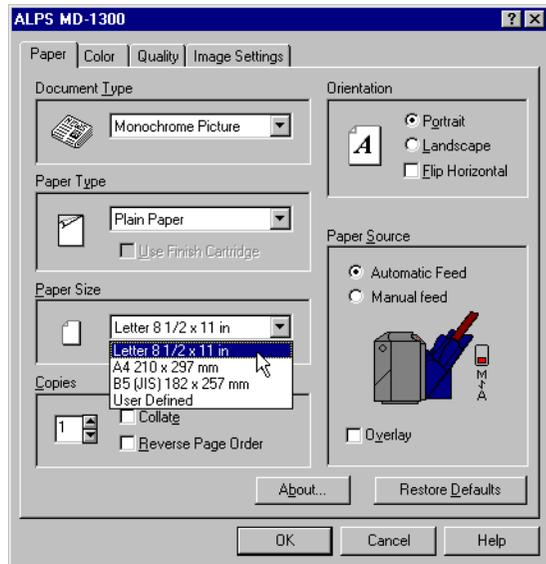
When you select Automatic here, the black printing data will be printed in black, and the color printing data will be printed in full color.



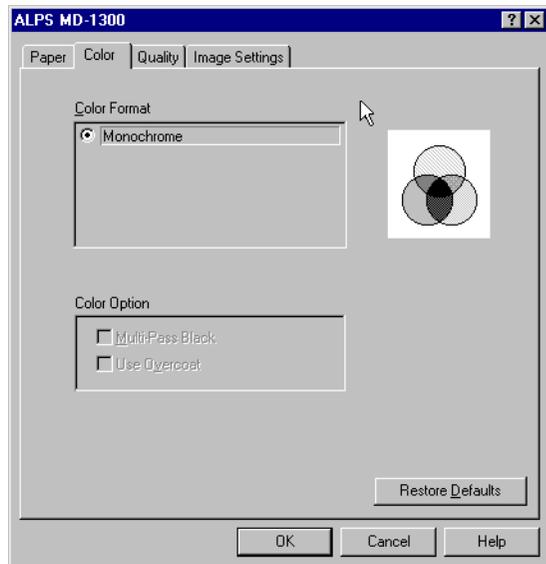
4. **Select a paper type in the Paper Type setting.**



5. Set the paper size and orientation, and the number of copies as desired.

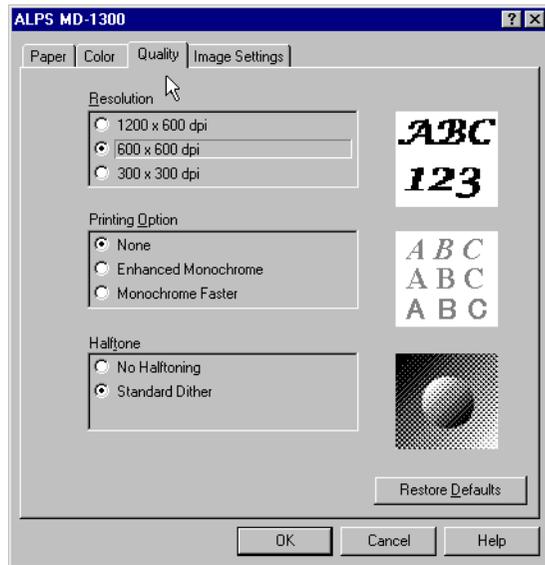


6. Click the Color tab.



Make sure that the Color Format is set to Monochrome.

7. Click the Quality tab.



Set the Resolution and Printing Option as desired.

**Note**

- 1) Checking the Enhanced Monochrome in the Printing Option setting improves the printing results on coarse paper. However, it doubles the printing time and cartridge consumption.
 - 2) Checking the Monochrome Faster in the Printing Option setting shortens the printing time.
 - 3) When printing black in 1200 dpi, select Monochrome Picture or Monochrome Text in the Document Type setting, and Plain Paper or Laser Print Paper in the Paper Type setting in the Paper tab. Then set the Resolution to 1200 x 600 dpi in the Resolution setting in the Quality tab.
-
8. When you complete all the setup, click OK to close the Alps MD-1300 Properties dialog box.
-
9. Click OK in the Print dialog box to start printing.

Printing (Color)

This section describes how to print standard color images on plain paper.

Requirements

You need the following items for standard color printing.

- **Ink cartridges**

Black ink cartridge (Part No. 106005-00)

Cyan ink cartridge (Part No. 106020-00)

Magenta ink cartridge (Part No. 106015-00)

Yellow ink cartridge (Part No. 106010-00)

- **Media**

High Grade Paper (Letter / A4 size) (Part No. 106085-00 / 106085-00-EU), laser paper or plain paper for copiers.

- **Printing data for color printing**

Printing data consisting of text and/or graphics created by an application.

Placing ink cartridges in your printer

Make sure one cyan, one magenta, one yellow, and one black ink cartridge are installed. The ink cartridges may be installed in any order.

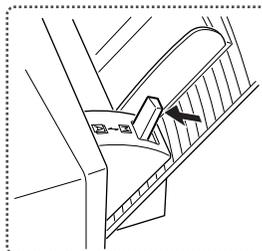


Caution

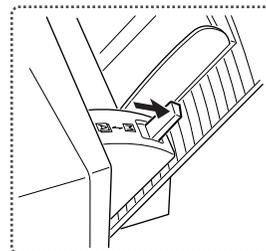
Do not place an ink cartridge directly into the carriage. Doing so may damage the printer.

Loading the paper in your printer

1. For manual feed mode, set the paper feed switch to position "M"; for automatic feed mode, set it to "A".

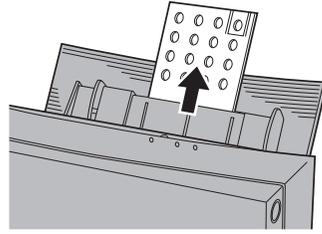


Paper feed switch "A"



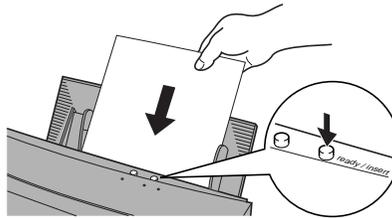
Paper feed switch "M"

2. Fully extend the paper support.

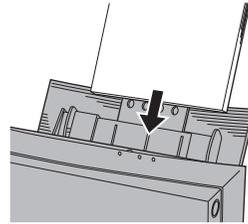


3. Adjust the paper feed guide to the width of the paper.

4. For manual feeding, load one sheet of paper into the sheet feeder, and press the *ready / insert* button. For automatic feeding, load all the sheets together.



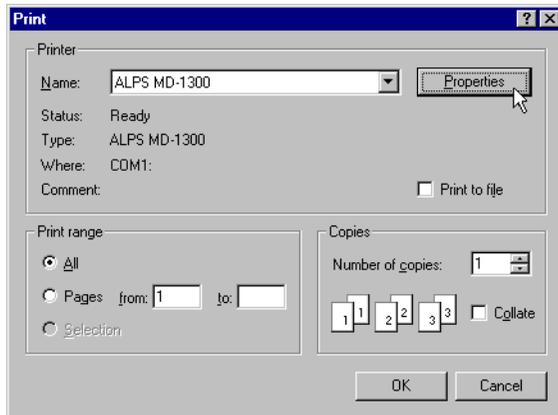
Manual feeding



Automatic feeding

Setting up the printer driver for printing

1. In the application you want to print with, select **Print** from the **File** menu to open the **Print** dialog box.

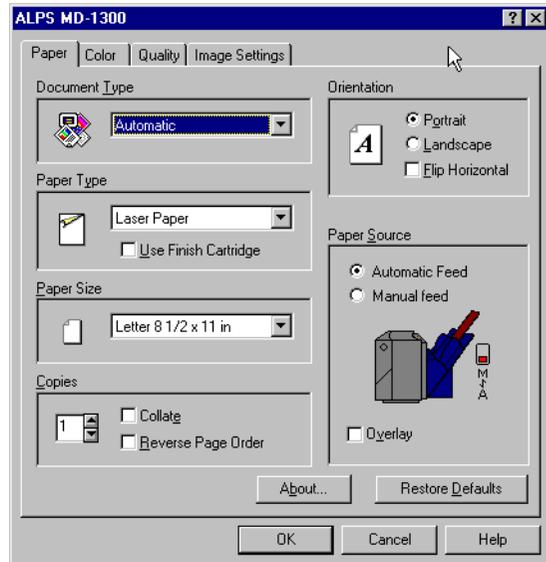


Note

Please note that the procedure for opening the dialog box of ALPS MD-1300 driver may slightly differ from one application to another.

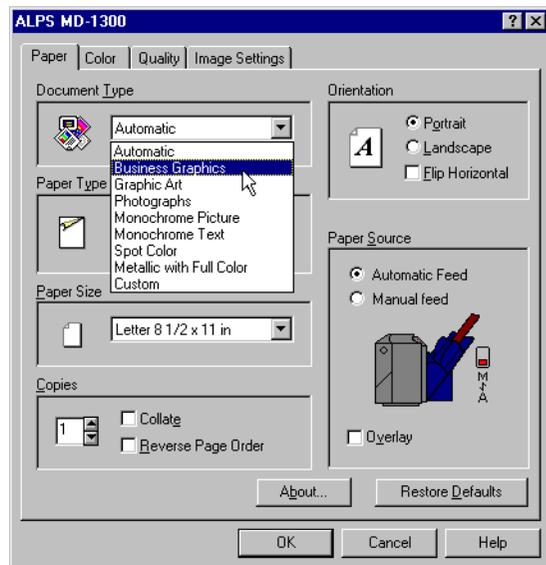
2. Click Properties.

ALPS MD-1300 Properties dialog box appears.

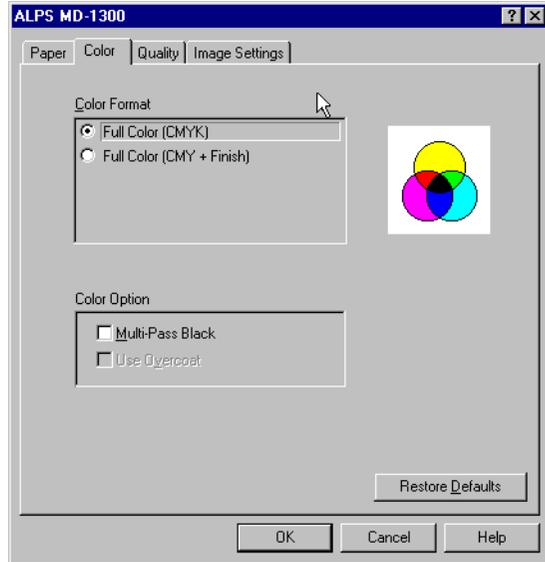


3. Select Business Graphics or Graphic Art or Photographs in the Document Type setting on the Paper tab.

When you select Automatic here, the black & white printing data will be printed in black & white, and the color printing data will be printed in full color.

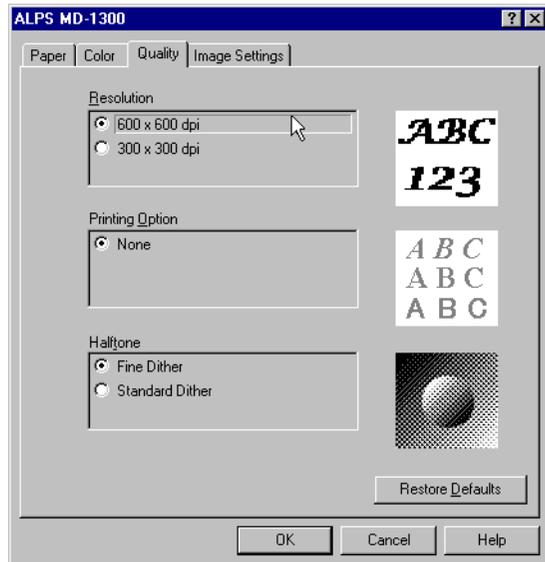


4. Select a paper type, etc. as necessary.
5. Click the Color tab.



Make sure that the Color Format is set to Full Color (CMYK).

6. Click the Quality tab.



Select a desired resolution.

7. When you complete all the setup, click OK to close the Alps MD-1300 Properties dialog box.
8. Click OK in the Print dialog box to start printing.

**Note****Using multicolor ink cartridges:**

- You may perform color printing with a multicolor ink cartridge on one cartridge holder plate, and a black ink cartridge on another.

Please see the “Installing Ink Cartridges” section of this guide for the details of how to install the ink cartridges.

- Multicolor ink cartridges are designed for such uses as printing a small piece of color illustration in the middle of the black & white printing data, and performing special metallic color printing together with the metallic ink cartridges. For this reason, a larger amount of the ribbon is wasted with the multicolor ink cartridges than with the others. Therefore, using multicolor ink cartridges can be more costly than using the regular color ink cartridges.

Chapter
1

MD-1300

Chapter 2

Various Printing Operations

Learning to Use the Many Functions of Your Printer

The MD-1300 not only prints outstanding monochrome and full color images but also offers a wide variety of other options, including printing in metallic color and printing on labels, iron-on transfers, and greeting cards.

This chapter will show you how to use these useful functions step by step. Read Chapter 1 of this guide and learn the basic operations of your printer before reading this chapter. We hope you will take full advantage of the many functions of your printer.

Photographic-Quality Color Printer

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NEXT▶

Photographic-Quality Color Printing

This section describes how to print Photographic-Quality Color images on Photographic-Quality Paper.

Requirements

You need the following items for Photographic-Quality Color printing.

- **Ink cartridges**
 - Photo cyan ink cartridge (Part No. 105812-00)
 - Photo magenta ink cartridge (Part No. 105814-00)
 - Photo yellow ink cartridge (Part No. 105816-00)
 - Photo overcoat ink cartridge (Part No. 105818-00)
- **Media**
 - Photographic-Quality Paper (8.5" x 11" / A4) (Part No. 105822-00 / 105822-00-EU)
- **The guide sheet** (the thick paper with the written description) included with the set of paper sheets



Caution

Always use Photographic-Quality Paper for Photographic-Quality Color printing. Failure to do so can damage the printer as well as the cartridge ribbon. Up to 20 sheets of paper can be loaded into the sheet feeder at once.

Print surfaces that have been overcoated cannot be used for subsequent printing. If you attempt to do so, the printer may malfunction.

Step 1 ► Prepare the Image to be Printed

Use any application to create the image or document you want to print.

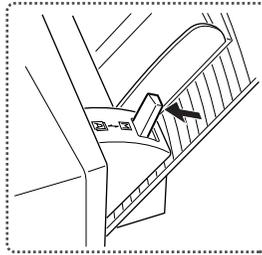
Step 2 ► Install the Photographic-Quality Ink Cartridges

Install the Photographic-Quality ink cartridges into the ink cartridge holders. The ink cartridges may be installed in any order.

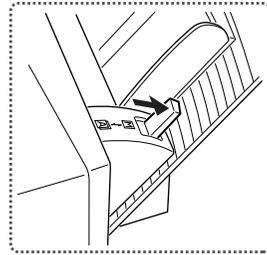
Step 3 ► Load the Photographic-Quality Paper (8.5"x 11" / A4) in Your Printer

You may use either automatic feed mode or manual feed mode to load the paper into your printer.

1. For manual feed mode, set the paper feed switch to position "M"; for automatic feed mode, set it to "A".

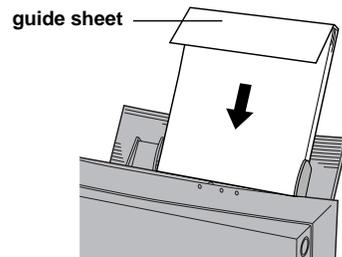


Paper feed switch "A"

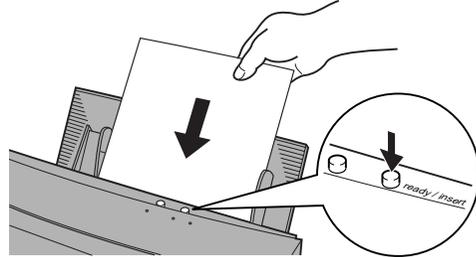


Paper feed switch "M"

2. For automatic feeding, load the guide sheet supplied with the paper into the sheet feeder, placing the printed side facing down. Then, place the Photographic-Quality Paper on this sheet. Only the glossy side of the Photographic-Quality Paper is printable, so be sure to load the sheets with the glossy, printable side up. When handling sheets, hold the bent top of the guide sheet only to avoid smearing or discoloring the glossy printing surface.



3. Adjust the paper feed guide to the width of the paper.
4. For manual feeding, load one sheet of paper in the sheet feeder, and press the *ready / insert* button.

**Note**

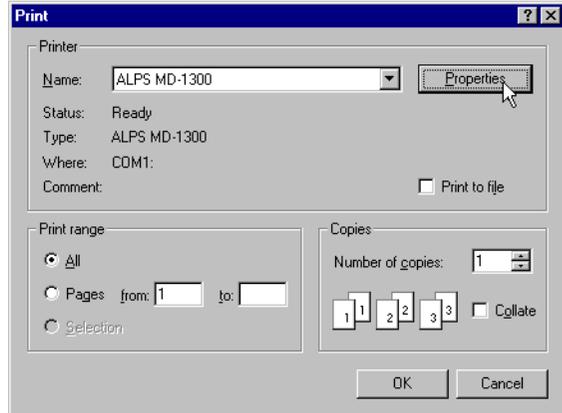
Only the glossy surface of paper can be subjected to Photographic-Quality printing. Since the opposite surface cannot be printed on, make sure the paper is correctly oriented.

**Important**

- You may load as many as 20 sheets of Photographic-Quality Paper at one time.
- Fan the sheets before loading them on the sheet feeder. The printer may feed more than one sheet at one time when they are stuck together.
- If you do not load the guide sheet with the Photographic-Quality Paper, the final sheet may not feed properly.
- Always use the Photographic-Quality ink cartridges to print on the Photographic-Quality Paper. Printing with any other combination can damage the cartridge ribbon as well as the paper.
- Remove both the Photographic-Quality Paper and the guide sheet before loading any other type of paper.
- The guide sheet is not reusable. When you load a new set of Photographic-Quality Paper, make sure that you load them with the new guide sheet from the same package.
- Note that when all the Photographic-Quality Paper has been fed from the sheet feeder, the printer will detect that the paper feeder is empty and will not feed the guide sheet. If you try to feed the guide sheet through the printer, it may get damaged. Do not use a damaged guide sheet in the printer.
- Keep both used and unused sheets away from heat, humidity, dust, and direct sunlight.
- The printed image on the Photographic-Quality Paper may discolor. Keep it out of contact with plastic, such as document holders, wallet windows, erasers, hairdressing items, and cosmetic items.
- Keep all unused sheets in the original bag.

Step 4 ► Set Up the Printer Driver for Printing**1. Select Print from the File menu.**

The following dialog box appears.

**2. Click Properties.**

The Document Type dialog box in the ALPS MD-1300 dialog box appears.

**Note**

Please note that the procedure for opening the dialog box of ALPS MD-1300 driver may slightly differ from one application to another.

3. Select Business Graphics, Graphic Art, or Photographs from the Document Types setting in the Paper tab.**4. Select Photographic Paper from the Paper Type setting.**

- When the following notice window appears, confirm the contents, and click OK.



- Change other necessary settings.
- When you complete the setup, click OK to close the dialog box.



Note

If you select Photographic Paper from the Paper Type setting, the overcoat finishing will be automatically provided. It is recommended to print with the overcoat. However, if printing with the overcoat is not desired, click the Color tab, and then uncheck the Use Overcoat check-box in the Option setting.

Step 5 ► Print

Click OK in the Print dialog box, and printing will start.

Printing on Photographic-Quality Paper (4" x 6" / 100 x 148 mm)

This section describes how to print Photographic-Quality Color images on Photographic-Quality Paper. With Photographic-Quality Color printing, you can print continuous-tone images with the same high quality as photographs. In Photographic-Quality Color printing, you can also print with an overcoat ink that produces a smooth, shiny surface like a photograph.

Requirements

You need the following items for Photographic-Quality Color printing.

- **Ink cartridges**

Make sure that you use only the Photographic-Quality ink cartridges listed below.

Photo cyan ink cartridge (Part No. 105812-00)

Photo magenta ink cartridge (Part No. 105814-00)

Photo yellow ink cartridge (Part No. 105816-00)

Photo overcoat ink cartridge (Part No. 105818-00)

- **Media**

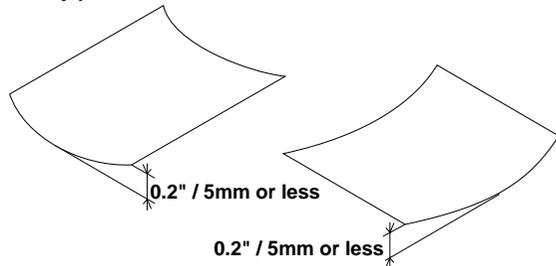
Photographic-Quality Paper (4" x 6" / 100 x 148 mm) (Part No. 105824-00)

- **The guide sheet** (the thick paper with the written description) included with the set of paper sheets



Important

Make sure that none of your Photographic-Quality Paper is warped more than 0.2" / 5 mm. Warped sheets can cause unsatisfactory print results.



Each sheet should have a warp of 0.2" / 5 mm or less when placed on a flat surface.

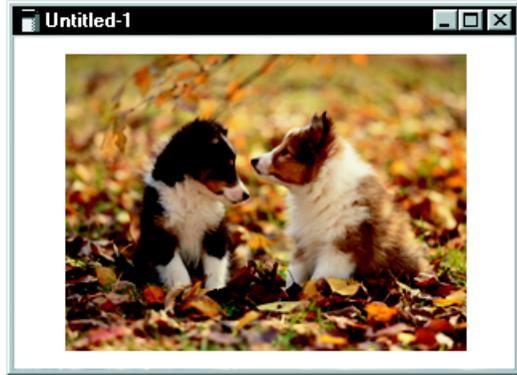


Important

- Always use Photographic-Quality Paper for Photographic-Quality Color printing. Failure to do so can damage the printer as well as the cartridge ribbon. Up to 20 sheets of paper can be loaded into the sheet feeder at once.
- Print surfaces that have been overcoated cannot be used for subsequent printing. If you attempt to do so, the printer may malfunction.

Step 1 ► Prepare the Image to be Printed

Use any application to create the image or document you want to print.



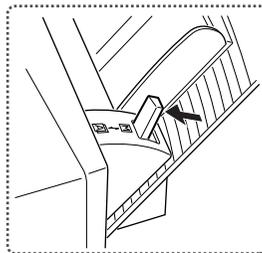
Step 2 ► Install the Photographic-Quality Ink Cartridges

Install the Photographic-Quality ink cartridges into the ink cartridge holders. The ink cartridges may be installed in any order.

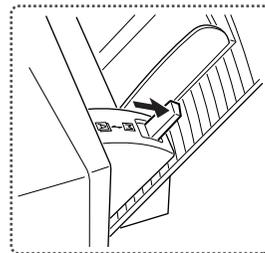
Step 3 ► Load the Photographic-Quality Paper (4"x 6" / 100 x 148 mm) in Your Printer

You may use either automatic feed mode or manual feed mode to load the paper into your printer.

1. For manual feed mode, set the paper feed switch to position "M"; for automatic feed mode, set it to "A".

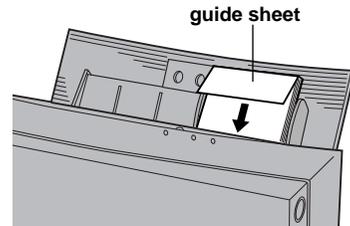


Paper feed switch "A"



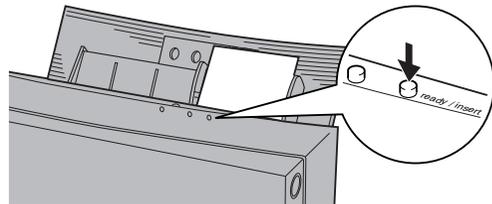
Paper feed switch "M"

2. For automatic feeding, load the guide sheet supplied with the paper into the sheet feeder, placing the printed side facing down. Then, place the Photographic-Quality Paper on the guide sheet. Only the glossy side of the Photographic-Quality Paper is printable, so be sure to load the sheets with the glossy, printable side up. When handling sheets, hold the bent top of the guide sheet only to avoid smearing or discoloring the glossy printing surface.



3. Adjust the paper feed guide to the width of the paper.

4. For manual feeding, load one sheet of paper in the sheet feeder, and press the *ready / insert* button.



Note

Only the glossy surface of paper can be subjected to Photographic-Quality printing. Since the opposite surface cannot be printed on, make sure the paper is correctly oriented.



Important

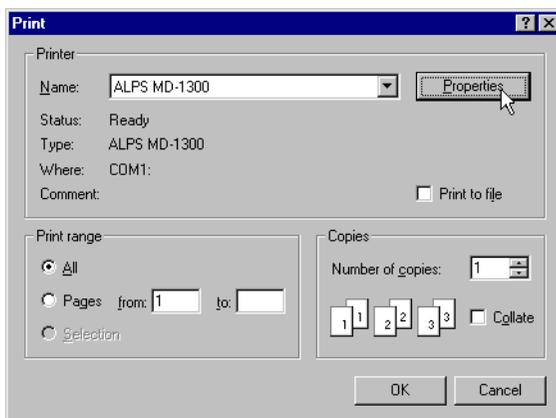
- You may load as many as 20 sheets of Photographic-Quality Paper at one time.
- Fan the sheets before loading them on the sheet feeder. The printer may feed more than one sheet at one time when they are stuck together.
- If you do not load the guide sheet with the Photographic-Quality Paper, the final sheet may not feed properly.
- Always use the Photographic-Quality ink cartridges to print on the Photographic-Quality Paper. Printing with any other combination can damage the cartridge ribbon as well as the paper.
- Remove both the Photographic-Quality Paper and the guide sheet before loading any other type of paper.
- The guide sheet is not reusable. When you load a new set of Photographic-Quality Paper, make sure that you load them with the new guide sheet from the same package.
- Note that when all the Photographic-Quality Paper has been fed from the sheet feeder, the printer will detect that the paper feeder is empty and will not feed the guide sheet. If you try to feed the guide sheet through the printer, it may get damaged. Do not use a damaged guide sheet in the printer.

- Keep both used and unused sheets away from heat, humidity, dust, and direct sunlight.
- A printed image on Photographic-Quality Paper may discolor. Keep it out of contact with plastic, such as document holders, wallet windows, erasers, hairdressing items, and cosmetic items.
- Keep all unused sheets in the original bag.

Step 4 ► Set Up the Printer Driver for Printing

1. Select Print from the File menu.

The following dialog box appears.



2. Click Properties.

The Document Type dialog box in the ALPS MD-1300 dialog box appears.



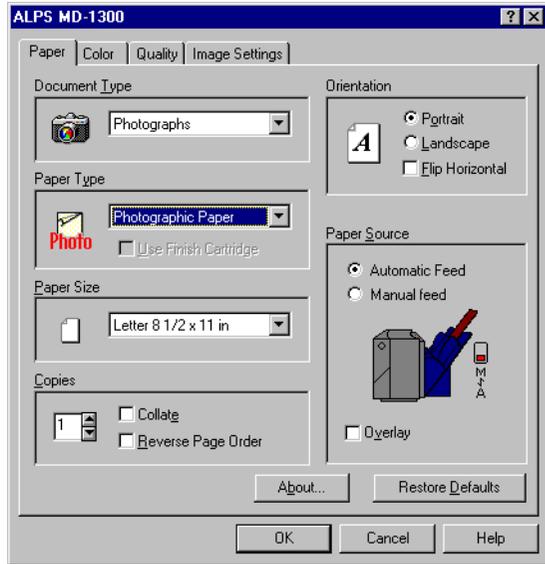
Important

Please note that the procedure for opening the dialog box of ALPS MD-1300 driver may slightly differ from one application to another.

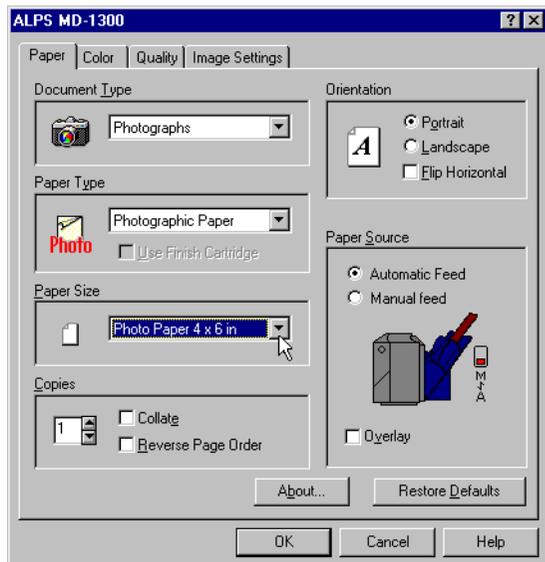
3. Select Business Graphics, Graphic Art, or Photographs from the Document Types setting in the Paper tab.

4. Select Photographic Paper from the Paper Type setting.

- When the following notice window appears, confirm the contents and click OK.



- Select Photo Paper 4 x 6 in from the Paper Size setting.
- Change other necessary settings.



8. When you complete the setup, click OK to close the dialog box.



Note

If you select Photographic Paper from the Paper Type setting, the overcoat finishing will be automatically provided. It is recommended to print with the overcoat. However, if printing with the overcoat is not desired, click the Color tab, and then uncheck the Use Overcoat check-box in the Option setting.

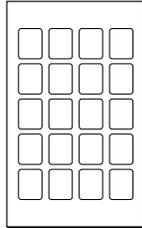
Step 5 ► Print

Click OK in the Print dialog box and printing will start.

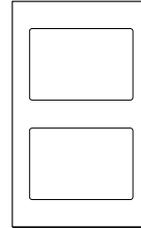
Printing on Photographic-Quality Labels

This section describes how to print Photographic Quality Color images on Photographic-Quality Labels. The Photographic-Quality Labels are available in the following two types.

Photographic-Quality Labels (20 stickers) (Part No. 105850-00)



Photographic-Quality Labels (2 stickers) (Part No. 105848-00)



Photographic-Quality Labels may be used with a variety of items, such as business cards, greeting cards and name tags.

Requirements

You need the following items for printing on the Photographic-Quality Labels.

- **Ink cartridges**

Make sure that you use only the Photographic-Quality ink cartridges listed below.

Photo cyan ink cartridge (Part No. 105812-00)

Photo magenta ink cartridge (Part No. 105814-00)

Photo yellow ink cartridge (Part No. 105816-00)

Photo overcoat ink cartridge (Part No. 105818-00)

- **Media**

Photographic-Quality Labels (2 stickers) (Part No. 105848-00)

or

Photographic-Quality Labels (20 stickers) (Part No. 105850-00)

- **The guide sheet** (the thick paper with the written description) included with the set of paper sheets



Important

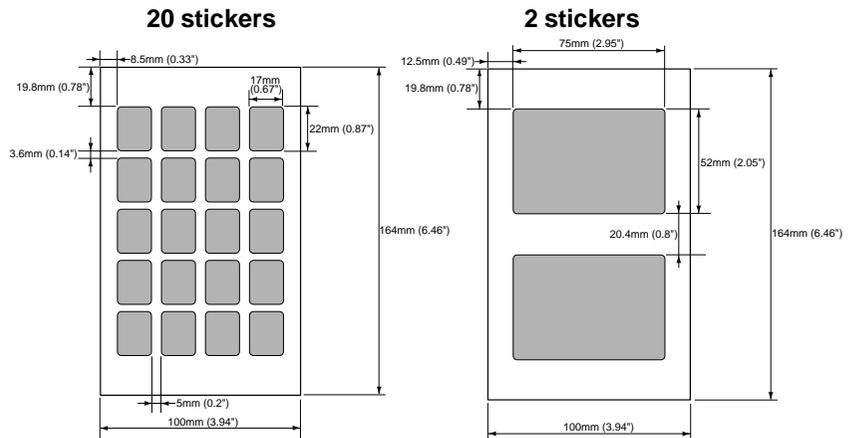
- Always use the above listed ALPS Photographic-Quality Labels. Using some other types of paper can cause the printer to malfunction.
- Print surfaces that have been overcoated cannot be used for subsequent printing. If you attempt to do so, the printer may malfunction.

Step 1 ► Create Data for Printing on Photographic-Quality Labels

Use the application of your choice to create the text and graphics you want, and lay them out within the printable area of a Photographic-Quality Label.

The following explanation will assume the use of Photographic-Quality Labels (2 stickers). Follow the same general sequence when you use Photographic-Quality Labels (20 stickers).

Photographic-Quality Labels templates have been prepared in the Label folder of the ALPS Installation CD-ROM included in the package. When creating data using those templates, please see the section "How to Use Photo Label Templates" in the "Read Me" file on the ALPS Installation CD-ROM for instructions. You may use them, or employ some other application to lay out the data according to the print format shown below.



Step 2 ► Install the Photographic-Quality Ink Cartridges

Install the Photographic-Quality ink cartridges into the ink cartridge holders. The ink cartridges may be installed in any order.