

CardJet Card Printer

User's Guide

X001200

FARGO®

Notices

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Revision History

Edition 1.0, 102502

P/N L000XXX

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For Users in the United States:

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:

- Re-orient 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.

Use of a shielded cable is required to comply with the Class B limits of Part 15 of the FCC Rules.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate and/or obtain warranty service for this equipment.

For Users in Canada:

This digital apparatus does not exceed the Class B limits for radio noise for digital apparatus set out on the Radio Interference Regulations of the Canadian Department of Communications.

Le present appareil numerique n'emet pas de bruits radioelectriques depassant les limites applicables aux appareils numeriques de la Class B prescrites dans le Reglement sur le brouillage radioelectrique edicte par le ministere des Communications du Canada.

For Users in Taiwan:

警告使用者：

這是甲類資訊產品，在居住環境中使用時，可能會造成射頻干擾，在這種情況下，使用者會被要求採取某些適當的對策。

Safety Precautions

Before operating the unit, please read the following safety precautions carefully.

Warnings

CAUTION! TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THE UNIT TO RAIN OR MOISTURE. TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE FRONT, TOP OR BACK PANELS. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

- Operate the unit only on 100-240 VAC, 50/60 Hz. If you have any doubt as to whether you have a unit with the correct voltage rating for your country's power supply, DO NOT attempt to use the unit. Contact your dealer or the factory.
- Stop operation immediately if any liquid or solid object should fall into the cabinet. Unplug the unit and have it checked by qualified service personnel.
- Do not disassemble the cabinet. Refer servicing only to qualified personnel.
- Use only the AC power cord included with this unit or an equivalent cord.
- This device is electrostatic sensitive. It may be damaged if exposed to static electrical discharges. (Discharges may be generated by various means, such as walking on a carpeted floor.) Be sure to observe all established Electro-Static Discharge (ESD) procedures while handling cables in or near the Circuit Board and Cartridge Assemblies. Always wear an appropriate personal grounding device, such as a wrist strap with integral resistor, connected to an ESD ground to avoid potential damage. At a minimum, make positive contact with the bare metal chassis of the printer with your hand before proceeding with the procedure.

Sicherheitsmaßnahmen

Machen Sie sich vor Inbetriebnahme des Geräts mit den Sicherheitsmaßnahmen gründlich vertraut.

Sicherheitshinweise

VORSICHT! ZUR VERHÜTUNG VON FEUERGEFAHR ODER ELEKTRISCHEN SCHLÄGEN DAS GERÄT VOR REGEN ODER FEUCHTIGKEIT SCHÜTZEN. UM DIE GEFAHR VON STROMSCHLÄGEN ZU VERHINDERN, OBERE, SEITLICHE UND HINTERE ABDECKUNG NICHT ABNEHMEN. DAS GERÄT ENTHÄLT KEINE TEILE, DIE VOM BENUTZER GEWARTET WERDEN KÖNNEN. WARTUNGSARBEITEN DÜRFEN NUR VON QUALIFIZIERTEM FACHPERSONAL DURCHGEFÜHRT WERDEN.

- Das Gerät nur mit 100-240 V 50/60 Hz Wechselstrom betreiben. Wenn Sie nicht sicher sind, ob Ihr Gerät mit der Spannung des örtlichen Stromnetzes arbeitet, DAS GERÄT NICHT IN BETRIEB NEHMEN. Wenden Sie sich an Ihren Händler oder den Hersteller des Geräts.
- Den Betrieb sofort unterbrechen, wenn ein Gegenstand in das Gehäuse gefallen oder Flüssigkeit eingedrungen ist. Den Netzstecker ziehen und das Gerät von qualifiziertem Wartungspersonal überprüfen lassen.

- Keine Gehäuseteile abnehmen. Wartungsarbeiten nur von qualifiziertem Fachpersonal durchführen lassen.

Consignes de sécurité

Avant d'utiliser l'appareil, prière de lire attentivement les consignes de sécurité suivantes.

Avertissements

ATTENTION! POUR EVITER TOUT RISQUE D'INCENDIE OU D'ELECTROCUTION, NE PAS EXPOSER L'APPAREIL A LA PLUIE OU A L'HUMIDITE. POUR EVITER TOUTE DECHARGE ELECTRIQUE, NE PAS RETIRER LES PANNEAUX avant, superieur OU ARRIERE. NE PAS TENTER DE REPARER SOI-MEME LES PIECES A L'INTERIEUR DE L'APPAREIL. CONFIER L'ENTRETIEN DE L'APPAREIL A UN PERSONNEL QUALIFIE.

- Faire fonctionner l'appareil uniquement sur courant alternatif de 100/240 V, 50 ou 60 Hz. En cas de doute sur la compatibilité entre la tension nominale de l'appareil et le courant du pays d'utilisation, NE PAS TENTER D'UTILISER L'APPAREIL. Contacter le revendeur ou l'usine.
- Arrêter immédiatement le fonctionnement si un liquide ou un solide venait à s'infiltrer à l'intérieur de l'armoire. Débrancher l'appareil et le faire vérifier par un personnel qualifié.
- Ne pas démonter l'appareil. Confier l'entretien de l'appareil uniquement à un personnel qualifié

Precauciones de seguridad

Antes de operar la unidad, haga el favor de leer detenidamente las siguientes precauciones de seguridad.

Advertencias

PRECAUCION! PARA EVITAR PELIGROS DE INCENDIO O CHOQUE ELECTRICO, NO EXPONGA LA UNIDAD A LA LLUVIA NI A LA HUMEDAD. PARA REDUCIR EL RIESGO DE CHOQUE ELECTRICO, NO quite LOS paneles frontales, superiores, laterales ni de fondo. EL INTERIOR NO TIENE PIEZAS REPARABLES POR EL USUARIO. PARA SERVICIO DE REPARACION Y MANTENIMIENTO SOLICITE LA ATENCION DE UN TECNICO DE SERVICIO AUTORIZADO.

- Opere la unidad sólo a 100-240 VAC, 50/60 Hz. Si no está seguro que la unidad que tiene es compatible al voltaje de la corriente eléctrica de su país, NO INTENTE USAR LA UNIDAD. Llame al representante de ventas o a la fábrica.
- Detenga la operación inmediatamente si algún líquido u objeto sólido cayera en el armario. Desenchufe la unidad y hágala revisar por un técnico de servicio autorizado.
- No desarme el armario. Para servicio de mantenimiento, solicite la atención de un técnico autorizado.

Precauzioni per la Sicurezza

Prima di dare inizio al funzionamento dell'unità, siete pregati di leggere attentamente le seguenti precauzioni di sicurezza.

Avvertenze

! ATTENZIONE! Onde evitare il pericolo di incendio o scossa elettrica, non esporre l'unità alla pioggia od umidità. EVITARE DI RIMUOVERE I PANNELLI ANTERIORE, SUPERIORE, O POSTERIORE PER RIDURRE IL RISCHIO DI SCOSSA ELETTRICA. LA MANUTENZIONE DELLE PARTI INTERNE DELL'UNITÀ NON È di competenza dell'utente. ai fini della riparazione rivolgersi al personale di competenza.

- Negli Stati Uniti e Canada l'unità funziona solo con alimentazione a 100-240 VAC, 50/60 Hz. Qualora non abbiate la certezza che il trasformatore e la spina di cui disponete siano quelli adeguati all'alimentazione erogata nel vostro paese, NON USARE L'UNITÀ. Rivolgersi piuttosto al rivenditore o la fabbrica del luogo.
- Arrestare immediatamente il funzionamento dell'unità qualora si verifichi un versamento di liquido o la caduta di un oggetto solido all'interno del suo alloggiamento.
- Non smontare la struttura dell'alloggiamento. Le riparazioni sono competenza soltanto di personale qualificato.

Precauções de Segurança

Antes de operar esta unidade, leia cuidadosamente as seguintes precauções de segurança.

Advertências

! CUIDADO! Para evitar perigo de choques elétricos ou incêndio, não exponha a unidade à chuva ou umidade. Para reduzir o risco de choques elétricos, não remova os painéis DIANTEIRO, SUPERIOR OU TRASEIRO. NENHUMA PEÇA no interior desta unidade pode ser consertada pelo usuário. peça ASSISTÊNCIA ao pessoal de manutenção qualificado.

- Opere esta unidade somente em 100-240 VAC, 50/60 Hz. Se você não souber se a sua unidade tem a voltagem correta para o sistema elétrico do seu país, NÃO TENTE USAR ESTA UNIDADE. Entre em contato com seu revendedor ou com a fábrica.
- Pare imediatamente a operação se qualquer líquido ou objeto sólido cair em seu gabinete. Desligue a unidade e mande examiná-la por pessoal qualificado.
- Não desmonte o gabinete. Peça assistência somente ao pessoal qualificado.

安全預防措施

在使用本機件前請先詳讀下列安全預防措施。

警告

注意！

不要使本機件淋雨或浸濕以免發生火警或觸電事故，不要拆去本機件前、後頂面或兩邊板壁以減少觸電危險事件。本機件內部並無用戶可以自行維修的零件。若需要維修應請來合格的維修人員。

- 本機件祇能接用於100-240伏50赫或60赫交流電源。如對機件之額定電壓是否配合當地供電電壓有任何疑問，則切勿使用本機件。請與承銷商或製造廠商聯絡。
- 如有任何液體或固體物件進入機盒之內則應立刻停止操作。拔出插頭，再請合格維修員前來檢查。
- 不可拆開機盒，應由合格人員從事維修工作。

安全注意事項

機械を操作する前に次の安全注意事項を熟読してください。

ワーニング

注意！

火災や電擊事故防止のために、機械を雨水や湿気に晒さないでください。電擊リスクを減少するために、前、上、横、後各々のパネルを取り外してはいけません。ユーザーが自分で修理出来る部品は入っていませんので、修理は専門の修理員に依頼してください。

- 機械は100-240VAC、50/60Hzでのみ操作してください。
- 自国の電源用の適切な電圧定格になっているかどうか疑わしい場合は、機械を使用せずに、販売店か工場に御問い合わせください。
- キャビネットへ液体又は個体物が落ち込んだ場合は、直ちに操作を中断し、プラグを抜いて、専門の修理工員にチェックしてもらってください。
- キャビネットを分解しないでください。修理は必ず専門の修理工員に依頼してください。

إحتياطات الأمان

قبل تشغيل الآلة يجب قراءة إحتياطات الأمان الآتية بدقة.

تحذيرات

إحترس!

لتتجنب وتقليل أخطار الحريق أو الصدمة الكهربية ، لا تعرض الآلة للنطر أو الرطوبة . لتجنب خطر أي صدمة كهربية: لا تزيل غطاء الخزانة الأمامي أو العلوي أو الخلفي. لا يصح للمستعمل محاولة ضبط أو تغيير أي قطع بالداخل ؛ بل يجب الاستعانة بمتخصصي الخدمة.

- يتم تشغيل الآلة بتيار كهربى ٢٤٠-١٠٠ فولت ، ٥٠/٦٠ هرتز فقط. لا تستعمل الآلة إذا كان لديك أي شك

في أن مواصفات الكهرباء المتوفرة في بلد التشغيل تطابق مواصفات الكهرباء المطلوبة للآلة. اتصل بوكيلك أو المصنع .

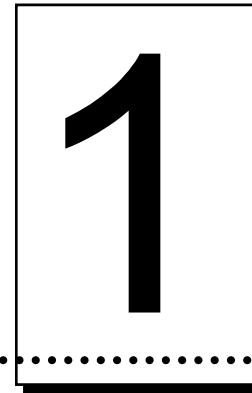
- أوقف التشغيل فورا إذا لاحظت تساقط أي سائل أو مادة صلبة بداخل الخزانة . أفصل الآلة عن الكهرباء وأطلب من متخصص الخدمة الكشف عليها .

- أفصل التيار الكهربى عن المحول بنزع الفيشة من مصدر الكهرباء في حالة عدم استخدام الآلة لمدة طويلة . ويتم نزع الفيشة نفسها باليد وليس عن طريق شد السلك .

- لا تعتبر هذه الآلة مفصولة عن مصدر الكهرباء مادامت فيشة المحول الكهربى متصلة بمصدر الكهرباء حتى لو كانت الآلة نفسها مطفأة .

- لا تفك خزانة الآلة . أستعين بمتخصصي الخدمة فقط .

Introduction



Thank You...

...for choosing a CardJet Card Printer. Your printer has been designed to produce stunning, photo-quality color or monochrome output. It offers many features which easily allow you to create full-color, durable cards complete with:

- Photographs
- High resolution graphics
- Text
- Bar codes
- And much more.

To begin printing with your new printer, please refer to the topics in this User's Guide in the order in which they appear. This user-friendly guide provides complete step-by-step instructions for setting up, using, and maintaining your card printer.

A. Special Features

Your card printer has many distinct advantages over other color card printers. The following highlights its many special features:

- Edge-to-edge printing in full-color or monochrome
- Fast print speed of just 30 seconds per full-color card
- In-line printing and optional magnetic stripe encoding for fast, efficient batch printing
- Inkjet printing capability for printing continuous-tone photos and crisp, readable bar codes
- Intuitive, easy-to-use control buttons and LED indicators

And best of all, operation of the printer is simple and straight forward. Your card printer will print from any IBM-PC® or compatible running Windows® 2000/XP. This means that you can use the printer with virtually any software package running under these operating systems without any special set-up or configuration beyond the initial installation of the software driver and interface cable.

Getting Started



2

A. Choosing A Good Location

- Place the unit in a location with adequate air circulation to prevent internal heat build up.
- Use the printer's dimensions as a guideline for the minimum clearances to the unit.

Note: Allow for adequate clearance above the unit to accommodate the height of the unit with its Top Cover open.

- Do not install unit (a) near heat sources such as radiators or air ducts, or (b) in a place subject to direct sun-light, excessive dust, mechanical vibration or shock.

About Moisture Condensation

If the unit is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense inside the unit. Should this occur, print quality may not be optimum. Leave the unit turned OFF in a warm, dry room for several hours before using. This will allow the moisture to evaporate.

B. Unpacking And Inspection

While unpacking your printer, inspect the carton to ensure that no damage has occurred during shipping. Make sure that all supplied accessories are included with your unit. The following items should be included with your printer:

- Printer
- Power Cord
- Software Installation CD — Includes:
 - Printer Driver Software (Installation - Setup)
 - This User's Guide
- Warranty Statement and Registration Card

Save the carton and packing materials. They are designed to be re-used and will come in handy when transporting the unit.

C. Applying Power

The printer has a universal power supply properly configured for the power used in your country. To connect this power cord to the printer, locate the appropriate power cord for your country and refer to the following steps:

1. Locate the power cord delivered with your printer.
2. Place the DC power plug end of the power cord into the printer's Power Input Port.
3. Place the AC power plug end of the power cord into an available wall outlet.

Power is automatically applied to the printer when it is plugged in. Press the Power button  if you wish to turn the printer OFF. If the printer will not be used for a long period of time, unplug the power supply cord from the wall outlet.

D. Opening The Top Cover

1. Open the Top Cover of the printer by lifting up on its bottom edge and tilting the cover back into its fully open position.
2. To close the Top Cover, gently lower the Top Cover until it closes securely.

Note: The Top Cover must be closed securely in order for your printer to operate.

E. Identifying The Printer Features

Top Cover

Opens to allow access to the Cartridge, cartridge, and card path. This cover must be closed in order for the printer to begin printing (see Opening The Top Cover).

Power Button and LED

The Power button  turns the printer ON and OFF. It also serves to cancel the current print job and reset the printer for the next print job. If a card is left within the printer after a print job is canceled, it will automatically be ejected when the printer is turned back ON.

Media Button and LED

The Media button  is used to pause the printer during normal operation and also to resume operation after an error condition is cleared. In general, as the icon above this button indicates, errors are related to either the cartridge or the cards. If an error occurs, the Media LED will flash. In this case, correct the error, and press the Media button to resume. The printer must have both the Power LED and the Media LED illuminated in order to print.

Card Input Hopper

Load card cartridge into this hopper.

Power Port

Connect to the included power cord (see Applying Power).

Interface Port

Connect to a Windows PC with a USB cable.

Ink Cartridges And Blank Cards



A. About Ink Cartridges

As described in How Your Card Printer Works, your card printer utilizes inkjet methods to print images directly onto blank cards.

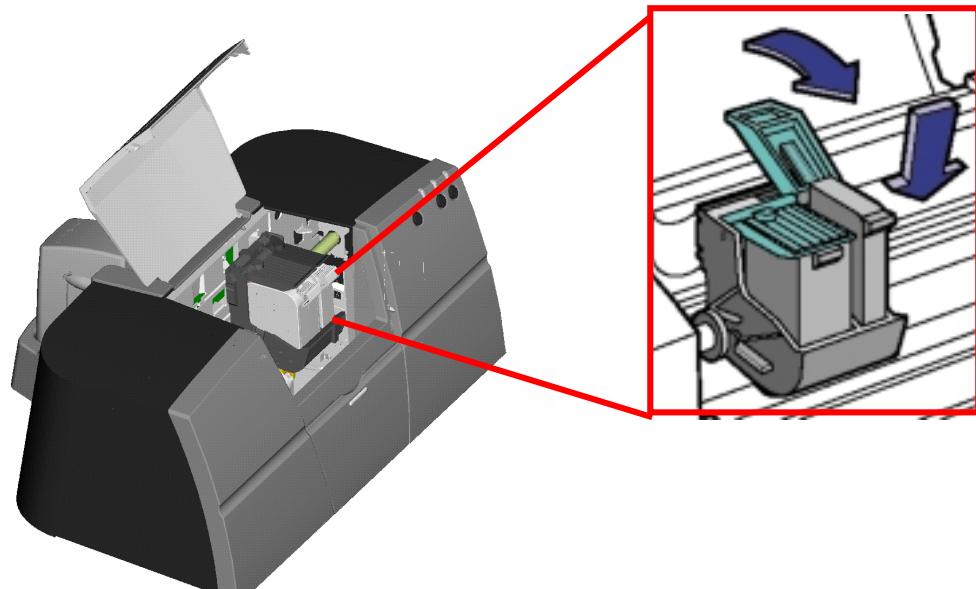
The Inkjet print cartridge combines the yellow (Y), magenta (M), and cyan (C) inks. By combining all colors, this cartridge allows you to print full-color, photo-quality images with sharp, black text and bar codes.

Please note that the printer requires specialized cartridges in order to function properly. If you do not use these authorized cartridges, you will not be able to print. To order additional materials, please contact your authorized reseller.

B. Loading Supplies

1. Install Color

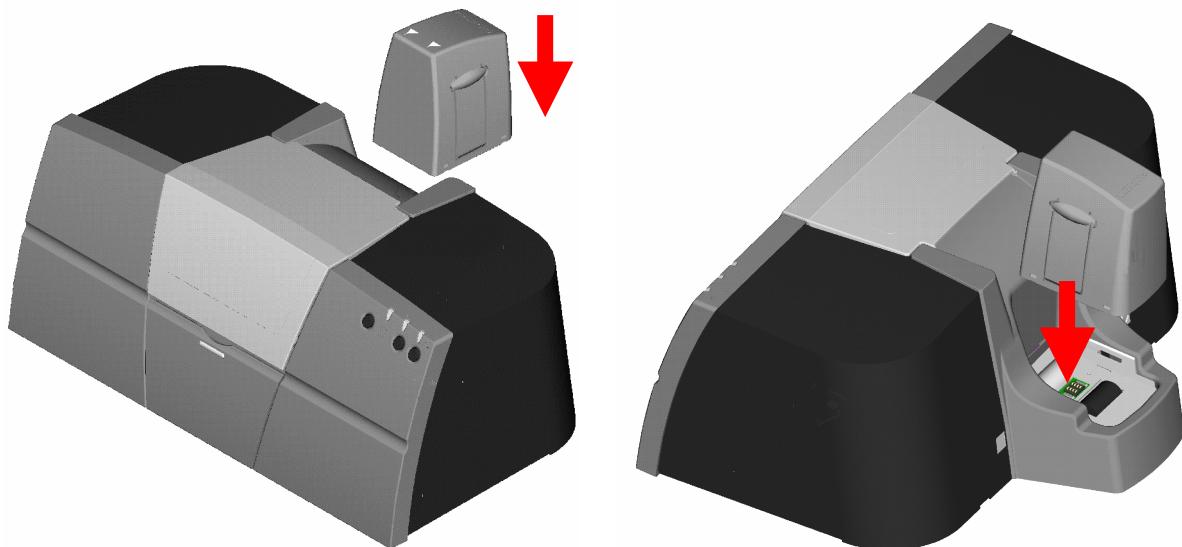
Install the both ink cartridges into the printer.



2. Close Top Cover

3. Install Cards

Install the Card Cartridge. Gently push it down until you hear it snap into place.





Using The Card Printer

A. Connecting The Printer to Your Computer

The card printer is designed to be used with any IBM-PC or compatible running Windows 2000/XP. For best results, a Pentium™ class 133 MHz computer with 32 MB of RAM or higher and 200 MB free hard disk space is required.

To connect the printer to your computer, obtain the appropriate interface cable, and refer to the following steps:

1. Connect the cable to the printer.
2. Connect the other side of your cable to the back of your PC at the USB connector.

B. Installing The Windows Printer Driver

The card printer can be used with virtually any Microsoft Windows 2000/XP software application program. This is accomplished through what is called a "printer driver." The printer driver is simply software which gives the printer all the information needed for printing.

The printer driver software is located on the Software Installation CD included with your printer. The following describes how to install the printer driver.

Installing The Printer Driver From The Software Installation CD

To install the printer driver, close down all other programs and insert the Software Installation CD into your computer's CD drive. The CD will automatically open and prompt you to click on the photo of your specific printer model to begin installation.

Follow the on-screen instructions to complete installation. Once installed, the "Card Printer" icon for your specific printer model will appear in the Printers folder.

The User's Guide will also automatically install along with the printer driver. An icon for this will appear in the **Start->Programs->Fargo** folder. Select this icon to open the User's Guide any time you have a question about operating your printer.



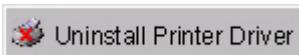
If the CD installer program does not automatically open when the CD is inserted into your computer, refer to the following steps to manually open the CD installer:

Note: This section of the Operator's Manual assumes that you are already familiar with Windows and know how it operates. If you are not yet familiar with Windows, consult the appropriate Microsoft documentation to become familiar with the basics of Windows before proceeding.

1. Insert the Software Installation CD into your computer's CD drive.
2. Use **My Computer** or **Windows Explorer** to view the contents of the CD. Windows Explorer can be opened by selecting it from the Start, Programs menu.
3. Double-click on the **Setup.exe** file listed on the CD.
4. The CD will automatically open and prompt you to click on the photo of your specific printer model to begin installation. Follow the on-screen instructions to complete installation. Once installed, the "Card Printer" icon for your specific printer model will appear in the Printers folder.

Installing Printer Driver Updates

Occasionally, new printer driver versions are released which have new or updated features. Before installing an updated printer driver version, always delete the existing printer driver version from your system. To do this, select Start, Programs and point to the Fargo folder. Then, select the **Uninstall Printer Driver** icon for your specific printer model as shown here.



Once the existing printer driver is deleted, the updated version can be installed. The best way to get

printer driver updates is to download them from the Fargo Website at www.personaprinters.com. The following instructions explain how to download and install updated printer drivers.

Downloading

Downloadable printer driver files have names ending in ".exe" and are self-extracting PKZip archives. A PKZip archive is a package, containing one or more files, that has been "zipped" to make it smaller and provide easy downloading of numerous files simultaneously. An archive that is self-extracting is capable of "unzipping" itself.

To download the latest printer driver version, click on the printer driver's highlighted ".exe" file name on the web site. You will then be prompted to "Save this program to disk." Click **OK**, then choose the folder in which you would like to save the printer driver file. You may wish to save it in an empty folder to prevent mingling its files with others already on your computer.

Once the file has completely downloaded to your computer, "unzip" the contents of the file by simply double-clicking on it. The archive will "unzip" itself, revealing its contents as a new list of files within the folder.

Installing

1. Click the **Start** button, point to **Settings**, and select **Printers**.
2. Double-click on the **Add Printer** icon.
3. Follow the on-screen instructions to begin installation. When prompted, click on the **Have Disk** button; the *Install From Disk* window will appear.
4. Click on **Browse**, navigate to the folder containing the printer driver files you just downloaded and unzipped, and click on **OK**. Click on **OK** again to close the *Install From Disk* window, then click on **NEXT**.
5. Follow the remainder of the on-screen instructions to complete installation. When prompted, do not have Windows print a test print, since you most likely performed a printer self test while you were setting up your printer. Once installed, the "Card Printer" icon for your printer will appear in the Printers folder.

Note: The downloadable version of the printer driver does not include the User's Guide due to its large size. If you performed the uninstall procedure above, the User's Guide will remain on your system and work seamlessly with the new printer driver. New versions of the User's Guide will also be released occasionally and can be downloaded separately by clicking [here](#).

C. Setting Up The Printer Driver

Once the appropriate printer driver for your computer has been installed, you will need to set the driver up with the proper print options. To open the printer driver setup window, please refer to the following steps for your specific operating system:

Windows 2000/XP

1. Click the **Start** button, point to **Settings**, and select **Printers**.
2. Click on your specific **Card Printer** icon with the right mouse button, and select **Printing Preferences...** if using Windows 2000/XP.

Note: If you would like to permanently save your printer driver settings so you will not need to change them again, do so through the main printer driver setup window described above. Although most applications do allow you to change these same printer driver options from their own Print screens, your settings may not be permanently saved.

To change or verify the appropriate printer driver options for your print job, please refer to the topics describing each of the printer driver's tabs.

Hint: If you have questions once you are in the printer driver setup window, click on the **Help** button within that window to get help on the specific tab you are currently viewing. To get help on a specific printer driver option, right-click on the option, and then click on **What's This?**.

D. Card Tab

Card Size

Indicates that the printer accepts standard, "credit card" size CR-80 cards. The dimensions of the total print area for this card size appear in the Print Width and Print Length boxes. Click on the **inches** or **mm** option to choose the desired unit of measurement. When designing a card format, always set the card size or page size within your card design program to the exact dimensions of a CR-80 card (3.375" L x 2.125" W / 85.6mmL x 54mmW).

Orientation

Select either **Portrait** or **Landscape**. Selecting Portrait causes the card to print in a vertical orientation. Selecting Landscape causes the card to print in a horizontal orientation. An icon illustrating a printed card helps represent the difference between the two.

Copies

Specifies the number of copies to be printed.

Test Print

This option allows you to send a simple self test print to the printer. This test print procedure can be helpful in ensuring that your computer is effectively communicating with the printer, and that the printer is functioning properly.

About

Clicking this button opens a dialog box containing the copyright and version information about this printer driver software.

E. Device Options Tab

Cartridge Type

Allows you to select the cartridge type option that's appropriate for the type of cartridge you are using.

Color Matching (CARDJET only)

Allows you to choose the color matching options which best fits the requirements of your print job. Select **None** if you are more interested in print speed rather than print color, if you have already color corrected your image for printing, or if you are using some other third party color matching software.

Select **Algebraic** if you would like the printer driver to make very simple, yet fast, color balance adjustments. This option gives you more natural looking images without actually utilizing any specific color matching software and without slowing down the processing speed of the printer driver. It also allows you to further customize the printed color of your cards through the Image Color tab.

Select **Monitor** if you would like the printer driver to make color corrections similar to the Algebraic option but through a more complex color matching algorithm. This option shifts colors more radically so the colors in your image will more closely match how they appear on your monitor.

Rotate Image 180 Degrees

This option allows you to rotate the image on the front of your card 180 degrees when printed. This option is often used to change the position of the printed image in relation to the set location of a card's magnetic stripe or smart chip.

Pause for Low Cartridge

Select this option if you would like a definitive warning when you are running low on cartridge. When this option is selected, the printer will "beep", pause, and the Media LED  will flash when approximately 10-20 prints remain on the cartridge. At this time, you can either (a) replace the cartridge and press the Media button  to continue printing with a new cartridge or (b) leave the existing cartridge in printer and press the Media button . For option (b), once the Media button is pressed, the printer will continue printing until the end of the cartridge, but will beep once before each print job. It will not be necessary to press the Media button again to continue printing once it has been pressed initially during a batch print.

When this option is not selected, the printer will still "beep" once before each print job when approximately 10-20 prints remain on the cartridge, however, the printer will not pause. Instead, it will continue printing until the end of the cartridge, without user intervention.

F. Image Color Tab

When the Algebraic color matching option is selected, this option allows you to control the **Contrast** and **Gamma** of the printed image, as well as the individual color balance of **Yellow**, **Magenta**, and **Cyan**. In most cases, the default settings of these options will suffice.

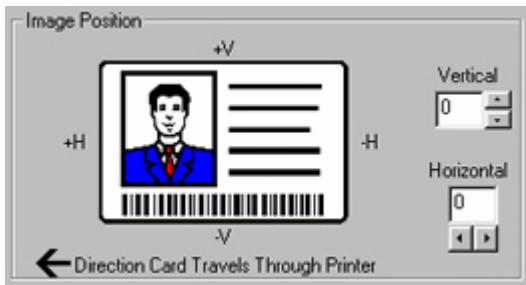
To control the overall darkness and lightness of the printed image, adjust the **Dye-Sub Intensity** slide by clicking and dragging the slide's box or by clicking on the left and right arrows. Moving the slide to the left causes less heat to be used in the printing process, thus generating a lighter print. Moving the slide to the right causes more heat to be used, thus generating a darker print. This slide only affects those images printed with inkjet cartridge panels (YMC).

To return all options to their factory settings, click on the **Default** button.

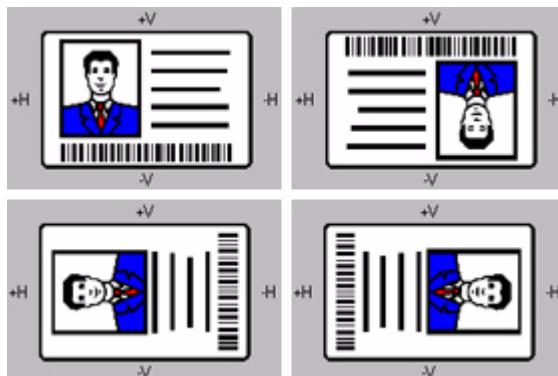
G. Calibrate Tab

This option allows you to control the position of the printable area in relation to the card, calibrate sensors, and adjust the internal printer settings which are customized for every printer and saved directly within the printer's memory.

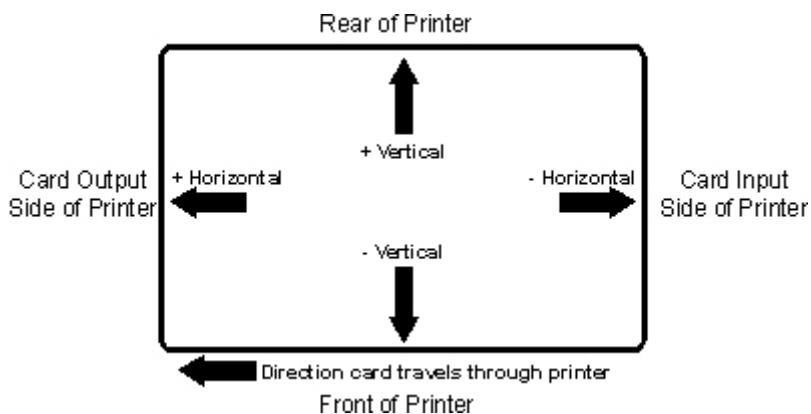
Image Position



The **Image Position** controls allow you to adjust the position of the overall print area to be precisely centered on a card. To adjust the Image Position values, click on the Vertical and Horizontal adjustment arrows. When adjusting these values, keep in mind that cards always remain in the same position as they travel through the printer, regardless of image orientation. To illustrate this, the card illustration shown in the Image Position box will flip and rotate according to whether you have selected Portrait, Landscape, or Rotate 180 Degrees. However, the outline around the illustration will always remain in the same landscape orientation.



The following diagram represents how the printed image will move in relation to the fixed card position as positive and negative image placement values are entered.

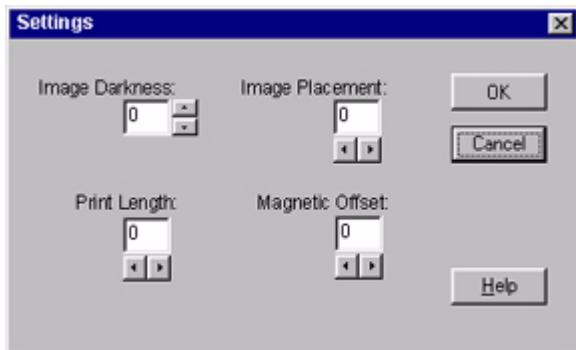


As you can see, the **Vertical** adjustment moves the image more toward the rear of the printer if a positive number is entered and more toward the front of the printer if a negative number is entered. The **Horizontal** adjustment moves the image more toward the card output side of the printer if a positive number is entered and more toward the card input side of the printer if a negative number is entered. The maximum value for the Vertical and Horizontal adjustments is ± 100 pixels (10 pixels = about .03"/.8mm).

Hint: Notice the direction the Vertical and Horizontal adjustment arrows point within the Image Position window are representative of the direction the printed image moves.

Settings

The Settings button brings up a separate dialog box for adjusting the internal printer settings which are customized for every printer at the factory and saved directly within the printer's memory.



The card printer is equipped with an internal adjustment mode programmable through the Settings dialog box. **This dialog box is accessible only if the printer is powered ON and is properly connected to your PC.** This adjustment mode allows you to change the printer's internal settings for overall Image Darkness, Image Placement, Print Length, and Magnetic Offset. To change these settings, please refer to the remainder of this section.



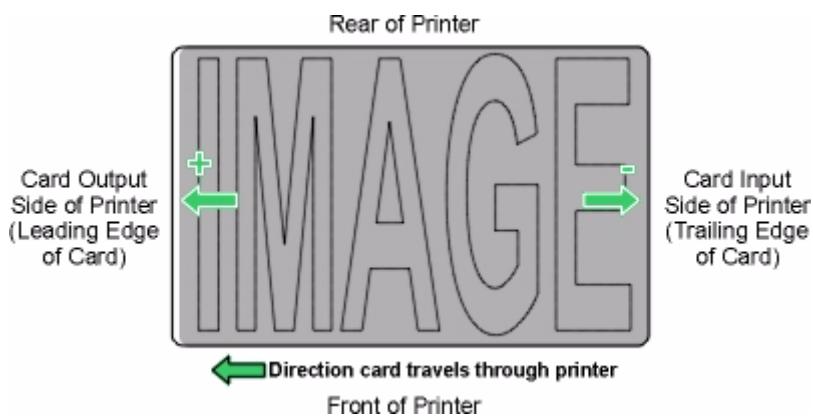
CAUTION! These settings are optimized at the factory and in most cases will not need to be changed. Do not alter these settings unless absolutely necessary. If you do need to change these settings, it is important to note that the original settings are recorded on a label attached to the printer's base plate or rear panel. These can be helpful if you need to get back to the printer's original baseline settings.

Image Darkness

This option sets the overall darkness of the printed image by increasing or decreasing the amount of heat used by the Cartridge when printing. To lighten the printed image, click the down arrow **▼** to enter a negative value and decrease the amount of Cartridge heat. To darken the image, click the up arrow **▲** to enter a positive value and increase the amount of Cartridge heat. For best results, make slight adjustments of only ± 4 so you do not accidentally over-adjust the Cartridge heat. If you set too high of a positive value, for example, the cartridge may jam or even break. The maximum adjustment range is ± 100 .

Image Placement

This option allows you to adjust the lengthwise or horizontal position of the printed image on a card so it appears centered. When adjusting this value, keep in mind that cards always remain in the same landscape orientation as they travel through the printer. The following diagram represents how the printed image will move in relation to the fixed card position as a positive or negative Image Placement value is entered.

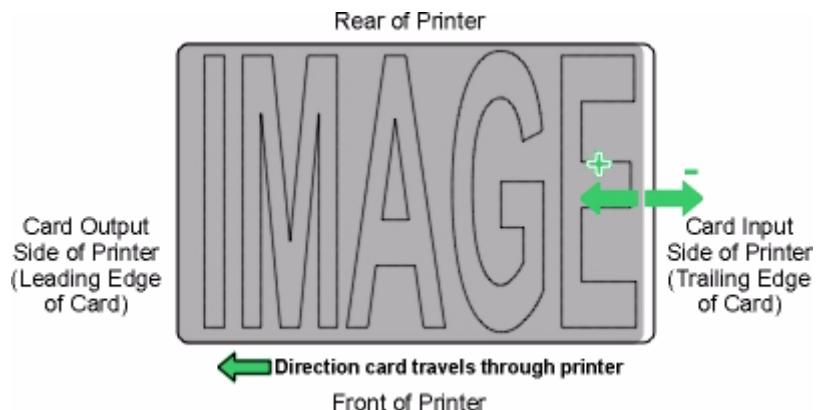


To move the printed image toward the leading edge of the card, or card output side of the printer, click the left arrow **◀** to enter a positive value. To move the printed image toward the trailing edge of the card, or card input side of the printer, click the right arrow **▶** to enter a negative value. Notice the arrows on these buttons indicate the direction the printed image will move on the card. The maximum adjustment range is ± 100 . As a rule, 10 equals about $.030"/.8mm$ which is about the same as the thickness of a standard CR-80 size card. Keep this in mind when adjusting this option so you do not over-adjust. If you set too high of a positive value, for example, the cartridge may break.

Print Length

This option allows you to reduce or lengthen the overall printable area in order to optimize edge-to-edge printing toward the trailing edge of a card. When adjusting this value, keep in mind that cards always remain in the same position as they travel through the printer. The following diagram represents how the print length will move in relation to the fixed card position as a positive or negative

Print Length value is entered.

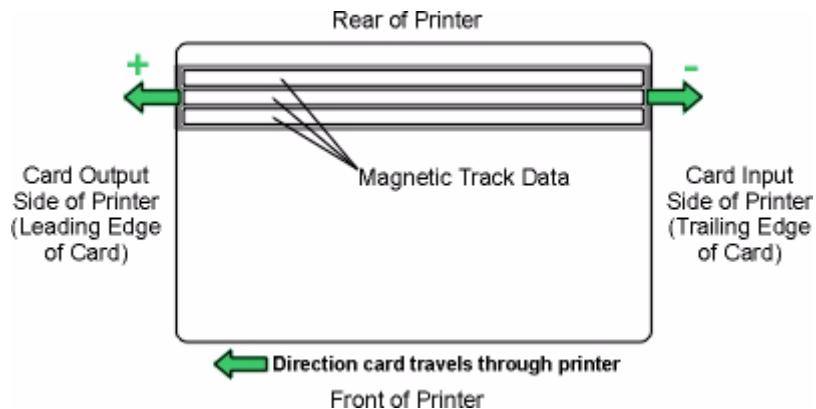


To reduce the print length and move the end of the printable area more toward the leading edge of the card, click the left arrow **◀** to enter a positive value. To increase the print length and move the end of the printable area more toward the trailing edge of the card, click the right arrow **▶** to enter a negative value. Notice the arrows on these buttons indicate the direction the length of the printable area will move on the card. The maximum adjustment range is ± 100 . As a rule, 10 equals about $.030"/.8mm$ which is about the same as the thickness of a standard CR-80 size card.

Magnetic Offset

This option applies only if the printer has a built-in magnetic stripe encoder. If so, this option allows you to shift the starting point of where the printer will begin encoding the magnetic track data on a card's magnetic stripe. When adjusting this value, keep in mind that a card and its magnetic stripe will always remain in the same relative position as the card travels through the printer. The following diagram represents how the magnetic data will move in relation to the fixed position of a card's magnetic stripe as a positive or negative Magnetic Offset value is entered.

(For this diagram, imagine that the card is transparent and that you are looking at the card's mag stripe through the top or front side of the card.)



To move the start of the magnetic data more toward the leading edge of the card, or card output side of the printer, click the left arrow **◀** to enter a positive value. To move the start of the magnetic data toward the trailing edge of the card, or card input side of the printer, click the right arrow **▶** to enter a negative value. Notice the arrows on these buttons indicate the direction the magnetic data will move on the card's magnetic stripe. The maximum adjustment range is ± 100 . As a rule, 10 equals about $.030"/.8mm$. Keep this in mind when adjusting this option so you do not over-adjust. If you set too high of a negative value, for example, the printer may start encoding before the card's magnetic stripe reaches the encoding head.

Once adjustment is complete, click the **OK** button to save your adjustments or click the **Cancel** button to cancel any adjustments you just made.

IMPORTANT! It is highly recommended that after making adjustments to the Internal Printer Settings you print a self test. This self test print will help you determine if the Image Darkness, Image Placement, and Print Length are set properly. If your printer has a magnetic stripe encoder and you adjusted the Magnetic Offset option, test this adjustment by sending down a command to encode from your specific software program.

H. Magnetic Encoding Tab

This option only applies if your printer has an optional Magnetic Stripe Encoding Module installed. Select this button to display options for controlling the magnetic stripe encoding process. The following describes these options and the printer's magnetic encoding process.

Overview

The card printer can be purchased with either a high-coercivity factory-installed Magnetic Stripe Encoding Module or a low-coercivity module. The printer cannot encode both types of magnetic stripes interchangeably within the same printer. To change the ISO standards for tracks 1, 2, and 3, adjust the following Magnetic Encoding options accordingly.

Magnetic Track Selection

The ISO encoding standard provides encoding capability for either high or low-coercivity cards on tracks 1, 2, and 3 and is the industry's most widely used mode of magnetic encoding. If your application requires customization of the standard ISO encoding process, use the **Magnetic Track Selection** option to specify which track you would like to configure through the Magnetic Track Options.

Although the default ISO Magnetic Track Options should be correct for almost all applications, these options can be customized if your application requires it. Please note that all options must be changed separately for each of the three individual tracks. If you would like to set these options back to the ISO standard settings once they have been changed, simply select the **Default** button for each of the separate tracks. Please refer to the following for a description of all Magnetic Track Options.

IMPORTANT! The **Magnetic Track Selections** are used only for configuring the way in which each of the three magnetic tracks will encode. They DO NOT designate which tracks the printer will encode (for example, if you would like to encode only Track 2). This must be done through your specific software program. Also, note that although the printer driver will remember the settings you specified for each of the three tracks, the printer driver will always default to displaying the options for Track 1 whenever the printer driver setup screen is first opened.

Magnetic Track Options

Use these options to customize the ISO encoded data format for each of the magnetic stripe's three tracks. Remember that each track must be customized independently of the other two. This means you must specify which of the three tracks to customize by selecting one of the three track options. After making the required selection, the Magnetic Track Options box displays the current set of customization options for the selected track. Note that for most applications, however, the default settings of these options should not need to be changed.

Bit Density

This option enables customization of the Bit Recording Density (Bits per Inch) used to encode the magnetic data on the currently selected track.

The default ISO Standard selections for this option are:

Track 1 - 210 BPI

Track 2 - 75 BPI

Track 3 - 210 BPI

Character Size

This option enables customization of the Character Data Size (Bits per Character) used to encode the magnetic data on the currently selected track. Note this character size includes the parity bit, if enabled.

The default ISO Standard selections for this option are:

Track 1 - 7 BPC

Track 2 - 5 BPC

Track 3 - 5 BPC

ASCII Offset

This option enables customization of the Character ASCII Offset used to encode the magnetic data on the currently selected track. This character offset value is subtracted from the ASCII value of each magnetic stripe data character prior to encoding on the track.

The default ISO Standard selections for this option are:

Track 1 - SPACE

Track 2 - ZERO

Track 3 - ZERO 

Character Parity

This option enables customization of the Character Data Parity used to encode the magnetic data on the currently selected track.

The default ISO Standard selections for this option are:

Track 1 - ODD

Track 2 - ODD

Track 3 - ODD

LRC Generation

This option enables customization of the LRC Generation Mode used to encode the magnetic data on the currently selected track.

The default ISO Standard selections for this option are:

Track 1 - EVEN

Track 2 - EVEN

Track 3 - EVEN

Verification

This option instructs the printer to verify that all magnetic data has been correctly encoded on each card. If the **Auto Eject 1st Error** option is selected, the printer will automatically eject a card containing magnetic data that cannot be verified. Note, however, that only the first misverified card will be automatically ejected. If a second consecutive card cannot be verified, the printer will signal an error and go into manual eject mode. This is done so that if, for example, you have loaded cards with the wrong type of magnetic stripe, the printer will not automatically feed and eject your entire card supply. The auto eject option is the most direct means of dealing with misverified cards, but may be undesirable if batch printing since misverified blank cards are ejected into the same stack as verified printed cards. For this reason, a **Manual Eject Each Error** option is also provided. When this option is selected, the printer will signal an error communicating the magnetic data could not be verified. When this occurs, press the appropriate softkey to manually eject the misverified card and set it aside from the verified cards.

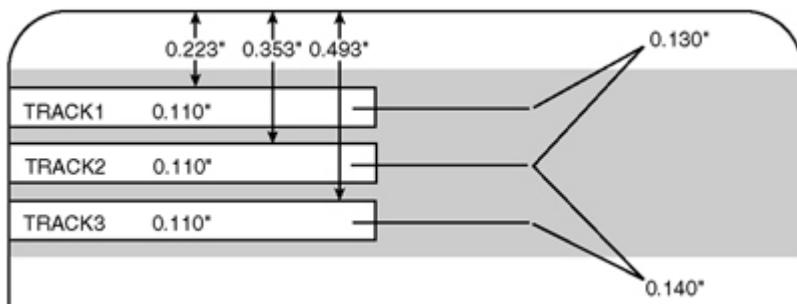
With either of these options, you can specify the number of times you would like the printer to retry its verification pass. A range of 1-5 retries can be selected. This option is helpful since magnetic stripe verification can sometimes require more than a single pass.

Shift Data Left

The Shift Data Left option is applied to all tracks when selected. This option shifts the recorded magnetic data to the left-hand side of the card's magnetic stripe. This is useful in situations that require cards to be readable with insert type readers that may not be able to read the right-hand side of the card.

ISO Track Locations

The magnetic encoding module encodes onto tracks in accordance with an ISO 7811-2 magnetic stripe. Refer to the following diagram for track locations:



Sending Track Information

Magnetic track data is sent in the form of text strings from the application software to the printer driver along with all of the other printable objects within your card design. In order for the printer driver to differentiate between magnetic track data and the rest of the printable objects, the magnetic track data strings must be uniquely "tagged." In other words, specific characters must be added to the magnetic track data in order for the printer driver to know which data is to be encoded, which tracks to encode, when the track data stops and starts, and so forth. In some cases, these specific characters are automatically added to the string of track data by customized ID software applications. In most cases, however, the user must manually add these characters to the string of magnetic track data. If these characters are not added to the track data, the text intended for the magnetic track will most likely appear as printed text on the card. To avoid this, track information must be entered as follows.

When entering track data, the "~" character is entered first, followed by the track number (1, 2, or 3) on which you intend to encode the data. The data to be encoded should then follow. The first character of this data string must be the track's specific Start Sentinel (SS) and the last character must be the specific End Sentinel (ES). The characters or data in between the SS and ES can include all of the valid characters specific to each track. The number of these characters, however, is limited by each track's maximum character capacity. When segmenting track data, the appropriate Field Separator (FS) must be used. The following table shows the SS, ES, FS, and the valid characters defined for each track.

	Start Sentinel	End Sentinel	Field Separator	Valid Characters	Maximum Number of Characters
Track 1	%	?	^	ASCII 32-95 (see table below)	78
Track 2	;	?	=	ASCII 48-63 (see table below)	39
Track 3	;	?	=	ASCII 48-63 (see table below)	106

ASCII Code	Character
32	space
33	!
34	"

35	#
36	\$
37	%
38	&
39	'
40	(
41)
42	*
43	+
44	'
45	-
46	.
47	/
48	0
49	1
50	2
51	3
52	4
53	5
54	6
55	7
56	8
57	9
58	:
59	;
60	<
61	=
62	>
63	?
64	@

65	A
66	B
67	C
68	D
69	E
70	F
71	G
72	H
73	I
74	J
75	K
76	L
77	M
78	N
79	O
80	P
81	Q
82	R
83	S
84	T
85	U
86	V
87	W
88	X
89	Y
90	Z
91	[
92	\
93]
94	^

95	-
----	---

The following example illustrates how track data should be entered for tracks 1, 2, and 3:

Example:

Sending data to Track 1

~1%JULIE ANDERSON^623-85-1253?

Sending data to Track 2

~2;0123456789?

Sending data to Track 3

~3;0123456789?

I. Printing A Card

Now that you have set up the printer, loaded media, and installed the printer driver, you are ready to print a card. Follow these steps to print your first card:

1. Go to the application program in which you will be creating your cards and open or create a card format.
2. Once you are ready to print, select **Print Setup** (or the equivalent) from the program's File menu to verify that the printer driver settings are correct for your card design. (Depending on your application program, you may need to set your printer driver settings through the Control Panel to ensure they are applied.)
3. After you've properly configured the driver, select **Print** from your application. The printer's RIP (raster image processing) begins. The image processing time will vary depending upon the complexity of the image and the processing speed of your computer.
4. After the image is processed, the printer will begin printing directly onto the card.
5. When printing is complete, the finished card will eject. If everything looks good, you have successfully completed set-up, initial testing, and printing with your card printer. Please refer to the remaining topics of this User's Guide for important information on printer maintenance and troubleshooting.

Maintenance



5

Your card printer is built to require a minimum amount of maintenance. Nevertheless, there are a few procedures you can perform on a regular basis or as needed to ensure the best possible performance.

A. Supplies Required

For the maintenance procedures outlined for your printer, you will need a Printer Cleaning Kit, available from your reseller. This kit includes the following:

- **Cleaning Pens** pre-moistened with 99.99% isopropyl alcohol for cleaning your printer.
- **Cleaning Pads** pre-moistened with 99.99% isopropyl alcohol for cleaning your printer's general inside and outside area.

IMPORTANT! As with any electronic device, internal components of the printer, such as the Cartridge, may be damaged if exposed to static electrical discharges. To avoid potential damage, always wear an appropriate personal grounding device, such as a wrist strap (with integral resistor) connected to an ESD ground. Or, at a minimum, make positive contact with the bare metal chassis of the printer with your hand prior to touching any internal electrical components.

B. Cleaning The Card Feed Rollers

The Card Feed Rollers move the card throughout the print process. Cleaning these rollers will help prevent card jams and card contamination and will ultimately lead to better print quality and extended Cartridge life.

To ensure consistent printer operation, clean these rollers approximately every **1000 prints** or during every cartridge change depending on the cleanliness of your card stock and the environment in which the printer is located. Also clean if the rollers appear dirty or if your cards start showing speckles or debris on the printed surface. Refer to the following to clean all these rollers through a single, easy process:

1. Leave the printer power ON, and open the printer's Top Cover. (Note you DO NOT need to remove the cartridge from the printer for this procedure.)
2. Remove all card from the printer's Card Input Hopper.
3. Get a **Cleaning Card** from the Printer Cleaning Kit, and remove its adhesive backing paper.
4. Insert the Cleaning Card into the card output end of the printer until the card stops. Be sure to **insert the card so that the longest end of the card is inserted first with the sticky side facing UP**.
5. Press and hold the printer's Media button  to feed the Cleaning Card all the way back through the printer until it stops.
6. Close the printer's Top Cover, and pull the Cleaning Card out of the Card Input Hopper. Repeat this cleaning procedure if additional cleaning is necessary. Once the rollers are clean, close the Top Cover and re-insert cards into the input hopper.

C. Cleaning The Platen Roller

The printer's Platen Roller should be cleaned approximately every **250 prints** or during every cartridge change. This helps prevent jams and maintain the best print quality. Also perform this procedure if the roller is visibly dirty. Use the following steps to clean the roller:

1. Leave the power ON, and open the printer's Top Cover.
2. Remove the cartridge.
3. Locate the Platen Roller.
4. Use a **Cleaning Pad** from the Printer Cleaning Kit to wipe the roller clean. Press the Power button  and Media button  to move the roller back and forth while cleaning.
5. After the roller is clean and completely dry, replace the printing supplies and close the printer.

D. Cleaning The Printer's Exterior

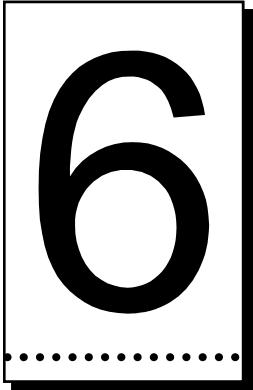
The printer has a durable casing that should retain its luster and appearance for many years. Clean it only with a **Cleaning Pad** from the Printer Cleaning Kit. DO NOT use cleaning solvents of any kind or spray the cabinet with a cleaner!

E. Cleaning The Printer's Interior

As you use your printer, dust and other particles may accumulate inside the printer. These particles are attracted to the cartridge or blank card by static produced during printing and can contaminate the printed card causing spots or speckles to appear. Periodically, use the following procedure to remove dust and other contaminants:

1. Open the printer's Top Cover.
2. Remove the cartridge from the printer.
3. Use a **Cleaning Pad** from the Printer Cleaning Kit to wipe out all visible areas inside the printer. Remove any debris that may be inside. Be extremely careful not to let any alcohol drip inside the printer!
4. Re-install the printing supplies, and close the printer.

Troubleshooting



6

If you have difficulty operating the printer, the suggestions in this section should, in most cases, solve the problem. If you still have difficulty after trying these suggestions, contact your authorized reseller for technical assistance.

A. Clearing A Card Jam

If a card becomes jammed inside the printer, the Media LED will flash and the printer will pause operation. At this point you can either try to correct the problem and continue printing with the same card, or remove the card completely and continue printing with a new card. Refer to the following steps for instructions on doing either:

1. Leave the power ON, and open the printer's Top Cover.
2. Remove the cartridge if necessary.
3. If you would like to try to correct the problem and continue printing with the same card, do so by pressing the Power button to advance the card or the Media button to reverse the card. Use these buttons to help free the card from its jam. Try not to move the card too far from where it was just before the jam occurred. Once the jam is cleared, replace cartridge, close the printer, and press the Media button button to resume printing.
4. If you would like to remove the jammed card completely, do so by using the Power and Media buttons to manually eject the card. Then, close the printer. Press the Power button to reboot the printer and cancel all jobs within the printer's memory. In this case, you must also cancel and resend the print job from your computer. For best results, cancel the job from your computer first, then press the printer's Power button.

B. Interpreting the LED Lights

The Power and Media LED lights located on the front of the printer can tell you a lot about what is happening inside the printer. To accurately interpret what it means when these lights are on, off, or flashing, please refer to the following table.

Power LED	Media LED	Cause / Solution
On solid	On solid	Printer is ON and READY to print.
On solid	Flashing	<p>Indicates an error with the media (cartridge or cards). Refer to the following suggestions:</p> <ul style="list-style-type: none"> -The cards or cartridge have run out. Replace as necessary. -Check that cards and cartridge are properly installed in the printer. Also check that cards are pushed all the way into the printer's Input Hopper. -Check that the proper cartridge type is installed according to the cartridge type option selected in the printer driver. -Check for a cartridge jam or card jam. -The Cartridge Sensor may need to be recalibrated. -Are you using a cartridge other than one sold specifically for use with your printer? Remember, the printer takes highly specialized cartridges. -If your printer has a magnetic encoding module installed and you are attempting to encode magnetic information onto a card while printing, a flashing Media LED can also indicate an encoding mis-verify. If information is not encoded properly or encoded onto a bad magnetic stripe, the printer is unable to verify the encoded data. When this happens, the printer will eject the card before printing begins and the Media LED will begin flashing. Press the Media button to resume encoding and printing with a new card.
Flashing	On solid	Indicates a possible error with your printer's memory. Contact your authorized reseller for technical assistance.
On solid	Off	Indicates the printer is ON, but that it is off-line or paused. Press the Media button to get the printer back to its READY mode.
Off	Off	Indicates the printer power is OFF. Be sure power is connected, and press the Power button if you would like to turn the printer back ON.

C. General Troubleshooting Suggestions

The printer doesn't seem to work at all.

- Make sure that the power cord is plugged in securely on both ends and that the printer is ON. Confirm power is applied by pressing the Power button . Also, be sure the printer is ready. Both the Power LED  and Media LED  should be illuminated when the printer is ready to print.
- Make certain that the printer cable is securely connected. An error message in the software application telling you that the printer is not responding is often due to a missing or defective interface cable.

My prints have a thin line or scratch traveling the entire card length.



- There may be dust on the Cartridge. Clean the Cartridge.
- Your blank cards may have scratches on them. Check your card stock and replace if necessary.
- There may be a scratch or a burned out element in the Cartridge. Contact your authorized reseller for assistance.

My prints have "spots" (small white or colored voids) and/or dust on them.



- Most likely due to dust inside the printer. Clean the inside of the printer.
- May also be caused by dust or embedded contaminants on the card. Be sure the cards you are using are clean and stored in a dust free environment. Some cards have embedded contaminants in their surface and should not be used.

My printed cards look too dark or too light.





- The print intensity may not be set properly for your image. Adjust the Image Intensity setting within the Image Color tab of the printer driver by moving the slider 5-10% to the left to lighten or to the right to darken.
- May also be caused by an improper internal printer setting. Check the Image Darkness value, and verify it matches the factory default value given on the settings label on the printer's rear or bottom panel.

The printing gets cut off or is not centered on the card, and a white border appears.





- Use the Image Position option within the Calibrate tab of the printer driver to precisely center the image.
- In the case of white leading or trailing edge border, as shown in the top sample, this may also be caused by an improper internal printer setting. Check the Image Placement and Print Length values, and verify these match the factory default values given on the settings label on the printer's rear or bottom panel.

The photos on my ID cards look very pixelated or grainy.



- For best photo-realistic output, you should always use high resolution 24-bit color images. If scanning an image, always scan the image at a 24-bit color setting, at the same size at which you will be printing, and at 300 dpi. If you stretch or "blow up" a small or low resolution image, you will always get a pixelated or grainy effect when printing.
- If capturing images with a digital camera or video camera, be sure the camera has a high enough resolution for photos to be printed at about the same size at which they were captured.

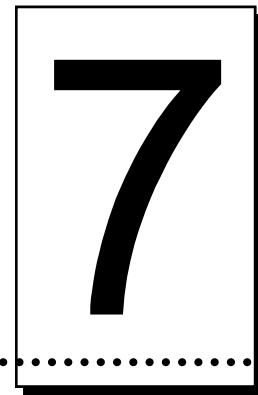
The printer seems to skip cartridge panels, cartridge panels out the usual YMCK order (resulting in strangely colored output), or simply wind the cartridge until the printer's Media LED  flashes.

- Check that the proper cartridge type is installed according to the cartridge type option selected in the printer driver.
- Calibrate the Cartridge Sensor.

The card or cartridge is jammed.

- If your inkjet cartridge is sticking to the card, check to see that you are using blank cards with a polished PVC finish. A card with a dull or sticky finish can cause the cartridge to stick to its surface causing the cartridge to jam or even break.
- If you are using an acceptable video imaging card stock and the cartridge is still consistently being jammed down into the drive roller, you may need to reposition the Headlift Assembly of the Cartridge. To do this, close the printer's Top Cover. With the printer powered ON, push down both the Power  and Media  buttons at the same time. You should then hear the Headlift Assembly rotate and realign itself.
- Review the proper procedures for clearing cartridge jams and card jams.

Technical Specifications



Print Method:

CardJet: Inkjet

Resolution:

300 dpi (11.8 dots/mm)

Colors:

CardJet: Up to 16.7 million

Print Speed:*

CardJet: 30 seconds per card / 120 cards per hour

Accepted Standard Card Sizes:

CR-80 (3.375" L x 2.125" W / 85.6mmL x 54mmW)

Print Area:

CardJet: CR-80 edge-to-edge

Accepted Card Thickness:

30 mil (.030" / .76mm)

Memory:

2MB RAM

Printer Drivers:

Windows 2000/XP

System Requirements:

IBM-PC or compatible, Windows 95/98, Windows NT 4.0, or Windows 2000, Pentium™ class 133 MHz computer with 32 MB of RAM or higher, 200 MB free hard disk space or higher, ECP parallel port with DMA access

Interface:

USB 1.1

Operating Temperature:

65° to 80° F / 18° to 27° C

Humidity:

20-80% non-condensing

Dimensions:

6.7"H x 13.1"W x 10.5"D / 170mmH x 333mmW x 267mmD

Weight:

15 lbs. / 7 kg

Agency Listings:

Safety: UL 60950, CSA C22.2 (No. 60950) and UL-GS (EN60950 A1-A4, A11), CE

Emissions: FCC Class B, CRC c1374, ITS-EMC, CE (EN55022 Class B: 1995; EN55024:1997) BSMI

Supply Voltage:

100-240 VAC, .6-1.3 A

Supply Frequency:

50 Hz/60 Hz