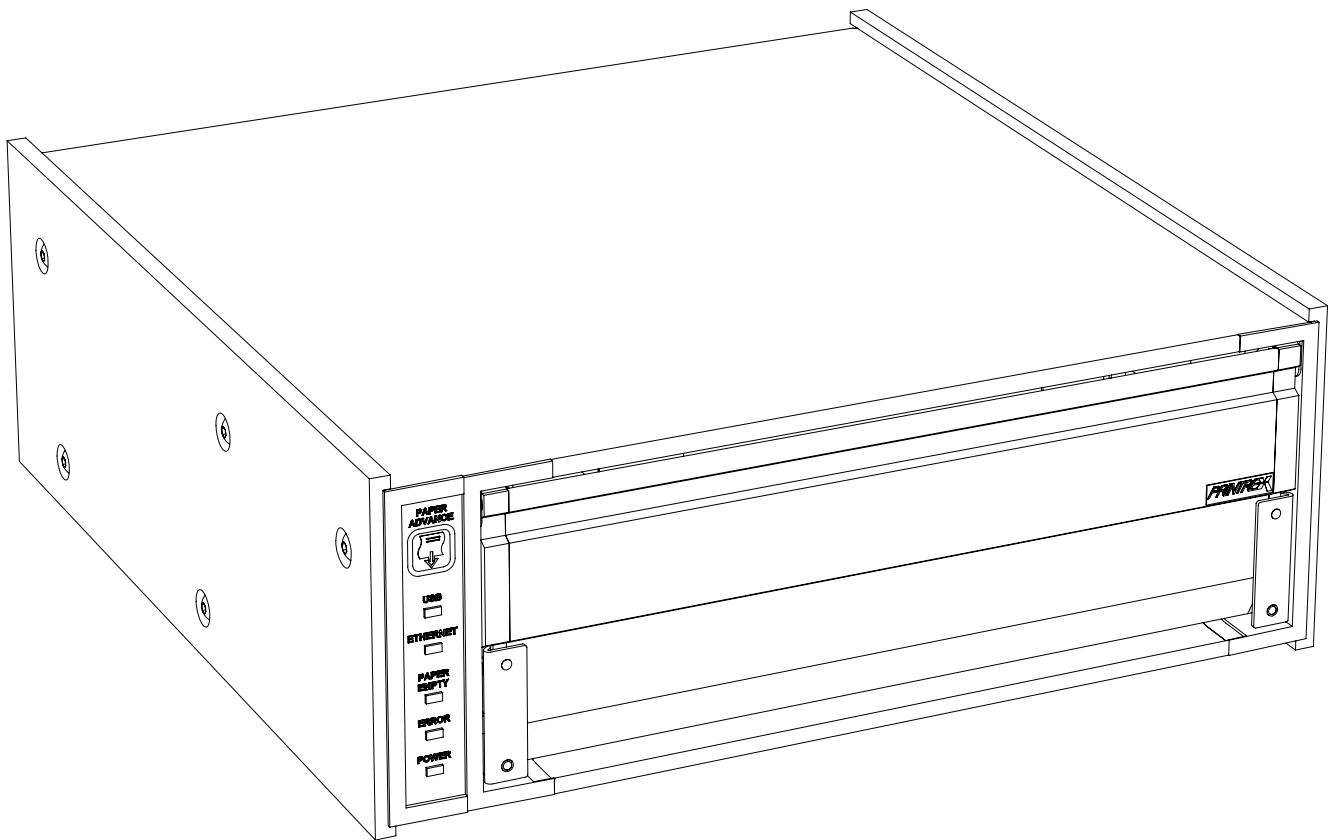




## Desk Top Chassis Industrial Printers/Plotters with USB and Ethernet Interfaces

822G, 823G  
822DL/G, 823DL/G  
842DL/G, 843DL/G

# User Guide



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## Introduction

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### Overview

This User Guide describes the general operation and care of the Desk Top Chassis series of industrial printers/plotters. The specific Desk Top Chassis models covered by this guide are the 822G, 823G, 822DL/G, 823DL/G, 842DL/G and 843DL/G.

These products are designed for use in a variety of environments, including rugged mobile data logging and exploration systems. While highly durable and reliable in service, best performance and product life will be assured if some degree of care is taken when installing the printers and when providing routine maintenance.

Reading the following sections describing the setup, operation and basic care of the printer will very likely answer questions you might have regarding these aspects of using Printrex products. Should you have further questions, please contact Printrex support (1-408-573-1200) and we will make every effort to provide a solution. You can also contact us at our website, <http://www.printrex.com>.

The following table lists Desk Top Chassis printer features by model.

| <b>Model</b>                            | <b>822G</b> | <b>823G</b> | <b>822DL/G</b> | <b>823DL/G</b> | <b>842DL/G</b> | <b>843DL/G</b> |
|---|-------------|-------------|----------------|----------------|----------------|----------------|
| Print speed (ips)                       | 2           | 2           | 2              | 2              | 4              | 4              |
| Integrated internal roll                | Yes         | Yes         | Yes            | Yes            | Yes            | Yes            |
| Bottom feed fan-fold                    | -           | -           | Yes            | Yes            | Yes            | Yes            |
| Film/mylar media support                | Yes         | Yes         | Yes            | Yes            | Yes            | Yes            |
| Vertical line adjustment                | Yes         | Yes         | Yes            | Yes            | Yes            | Yes            |
| Extended media controls                 | Yes         | Yes         | Yes            | Yes            | Yes            | Yes            |
| Resolution (dpi)                        | 203         | 300         | 203            | 300            | 203            | 300            |
| 32 level grey scale printing            | Yes         | Yes         | Yes            | Yes            | Yes            | Yes            |
| Autorange 115/220 VAC power             | Yes         | Yes         | Yes            | Yes            | Yes            | Yes            |
| Fan-cooled                              | -           | -           | -              | -              | Yes            | Yes            |
| CE certification (ITE, Safety, and EMC) | Yes         | Yes         | Yes            | Yes            | Yes            | Yes            |
| FCC Class A                             | Yes         | Yes         | Yes            | Yes            | Yes            | Yes            |

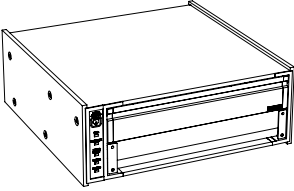
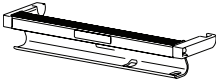

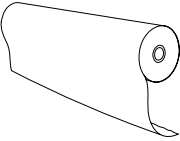
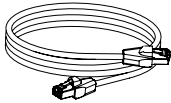
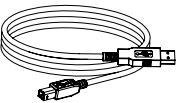
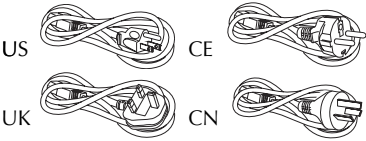
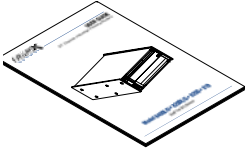
### Firmware (Software) Information

The Firmware (Software) resident in the Printer is owned by Printrex or its suppliers and is licensed for use only on a single printer in the user's Trade or Business. The User agrees not to, and not to authorize or permit any other person or party to duplicate or copy the Firmware or the information contained in the nonvolatile or programmable memory. The firmware (Software) is protected by applicable copyright laws and Printrex retains all rights not expressly granted. In no event will Printrex or its suppliers be liable for any damages or loss, including direct, incidental, economic, special, or consequential damages arising out of the use or inability to use the Firmware (Software).

# Introduction

## Package Contents

The following items are packed with your printer. If any of these items are missing, please contact Printrex Customer Service immediately.

|   |   |
|---|---|
| Desk Top Chassis Printer  |    |
| 8 3/4 Inch Paper Carrier  |    |
| Paper Rod   |    |
| Thermal paper roll  |    |
| Ethernet I/O Cable  |   |
| USB I/O Cable   |  |
| Power Cord (US, UK, Central Europe, or China plug type, according to the order number suffix) |  |
| This User Guide   |  |

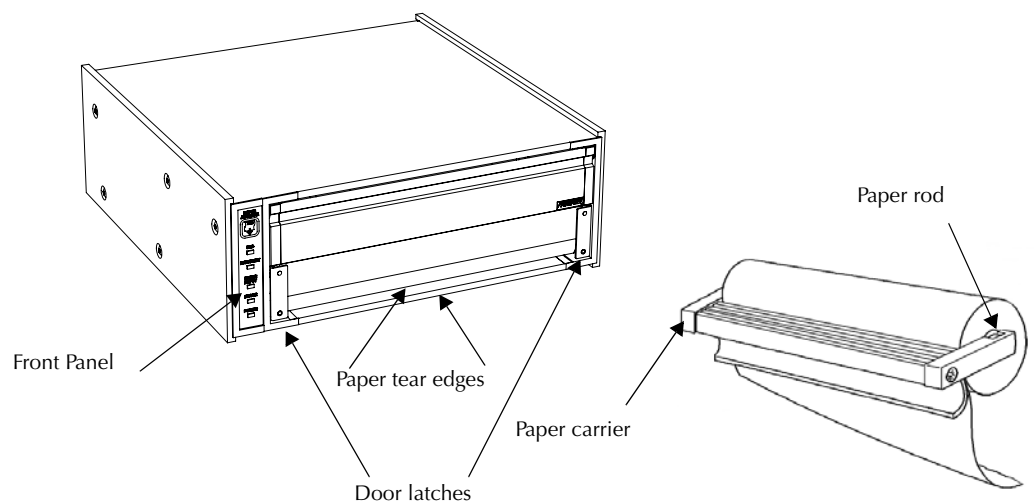
There is also a styrene spacer that keeps the print head pressure off the platen during shipment and storage. This spacer is not required for operation and may be discarded.

## Getting Familiar

Refer to Figures 1 through 5 to familiarize yourself with the names of the features of the printer, which you will see throughout this guide.

| Feature               | Description  | Figure |
|-----------------------|--|--------|
| AC connector          | IEC power connection for power cord  | 2      |
| Bottom Feed Slot      | Paper entrance slot for bottom paper feed applications   | 3      |
| Chassis Label         | Indicates part number, revision, full model number, and serial number  | 2      |
| Door Latches          | For securing doors   | 1      |
| Ethernet Connector    | Accepts an Ethernet cable connected to the host.   | 2      |
| Ethernet Indicator    | When lit, shows Ethernet is connected to a host. When flashing, shows data being transferred to the printer. | 4      |
| Error Indicator       | Indicates occurrence of a problem (see “Errors and Error Handling” on page 14)                               | 4      |
| Form Sensor Window    | Form detector window to view form mark   | 5      |
| Front Panel           | Operator controls and indicators   | 1      |
| Paper Advance Button  | Advances paper and starts self-test  | 4      |
| Paper Empty Indicator | Paper empty alert  | 4      |
| Paper Empty Switch    | Paper empty detection switch   | 5      |
| Paper Rod             | Center spindle for internal roll paper supply  | 1      |
| Paper Carrier         | Internal paper roll holder   | 1      |
| Paper Tear Edges      | Paper tearing bar edges  | 1      |
| Platen                | Printer platen roller  | 5      |
| Power Indicator       | Indicates power is applied to the printer  | 4      |
| Power Switch          | Controls power to the printer  | 2      |
| Print Head Assembly   | Prints data onto the paper   | 5      |
| USB Connector         | Accepts a USB cable connected to the host.   | 2      |
| USB Indicator         | When lit, shows USB is connected to a host. When flashing, shows data being transferred to the printer.      | 4      |

Figure 1: Printer Front and Paper Roll



# Introduction

## Getting Familiar (continued)

Figure: 2 Rear Panel

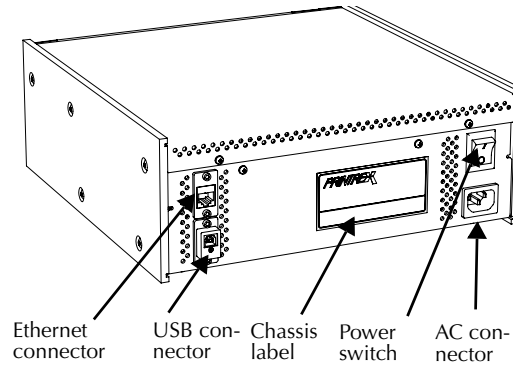


Figure: 3 Bottom Panel

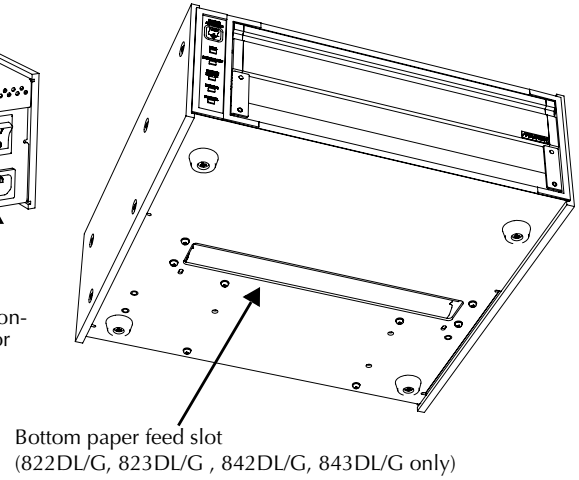


Figure: 4 Front Panel Indicators

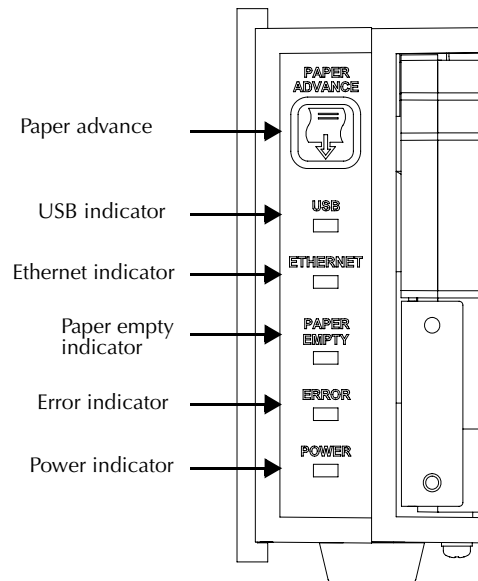
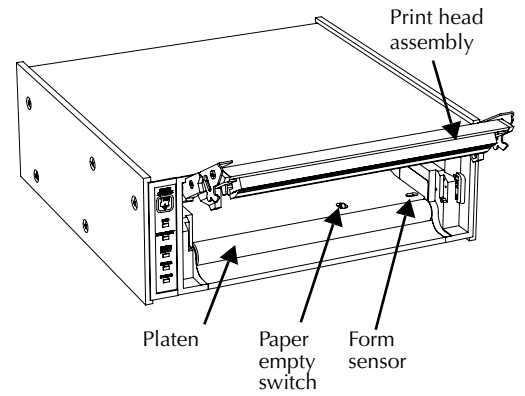


Figure: 5 Print Mechanism



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## System Setup

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### OEM Integrated Systems

These complete-solution products are built into enclosed physical packaging or racks, and may consist of pre-configured computer hardware using either a UNIX operating system variant or a Microsoft operating system.

While Printrex has experience in supporting the development of a variety of these OEM systems, it is impossible for us to maintain the information and knowledge necessary to provide detailed support for your specific installation. If you have questions about the use of a specific integrated system, consult support services provided by the OEM.

### End-User Installation

For clients directly receiving Printrex products to install into existing or new systems, we can help to make the installation process as trouble-free as possible.

The following section describes the general procedure for setup, which may be sufficient for many users to complete the process. If you have further questions, we maintain several reference documents online (in the Support area of the website) which describe a variety of installation scenarios in detail, including different Microsoft, UNIX, and Linux operating systems.

### Getting the Right Drivers

For Plug-And-Play operating systems, installation goes more smoothly if the correct driver files are available when the device is first connected. Be sure you have the Printrex driver software for your particular operating system and its version. If a driver disk is not available, download the latest version from the Printrex website, in the Support section.

When you download the driver file, create a folder on your desktop (named PrxDivers, for example) and save the file in this location.

Note that this file will be in ZIP format. You will need to extract the driver files in order to use them. For many operating systems, right-clicking on the ZIP file presents an option to Extract All; do so into the desktop folder. Now the system will have access to drivers when the system installer needs them.

### Connecting the Power Cord



Caution! Do not use a “cheater” connector in order to use an inexpensive two-wire outlet or extension cord. This defeats grounding protection and may be a serious electrocution hazard in wet environments.

1. Locate the Power Switch on the rear Panel of the printer (see Figure 2).
2. Turn the Power Switch to the off position (indicated by the international symbol “O”).
3. Connect the IEC female end of the cord to the power connector on the rear of the printer chassis.
4. Plug the male connector into a properly grounded three-pin AC main power outlet.

# System Setup

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## Connecting the USB Cable

For best results, only use cables bearing the USB blue and red logo. Keep in mind that maximum cable length is 5 meters; do not use inexpensive extension cables. (Active extension cables, with integrated USB hubs, may be used, up to the limit of 5 levels.)

With printer power off, connect the printer to an available USB port on the host computer.

## Installing the Printer Driver

This process varies in specific details depending on operating system.

In general, when the printer is first turned on, a device installer wizard will detect the printer on a USB port.

Direct the installer to search for the driver in the desktop folder containing the extracted files.

In the case of Windows systems, you may see a warning regarding 'unsigned' or 'untested' drivers. Continue the installation anyway.

When the installer wizard has finished, verify the installation by printing a test page. For Windows systems, the printer Properties dialog provides a 'Print Test Page' button.

If you have any questions regarding installation on a particular OS, or experience errors in the process, please check the detailed documentation available on the Printrex website.

## Configuring the Ethernet Settings

If you are installing the printer for use over an Ethernet-based network, the printer must be correctly configured before connecting via Ethernet. After the driver has been installed as described above, this is done over a USB connection. Open the printer Properties dialog, and select the 'TCP/IP Address Setup' tab. Follow the instructions on the dialog page; when finished, connect the printer to your network.

Note that the host computer must also be set up to use a network TCP/IP port to communicate with the printer. While the details of this process vary, for most Windows systems the following applies:

1. Go to the printer Properties dialog, Ports tab. Click the button 'Add Port...'
2. From the list, select 'Standard TCP/IP Port', then click 'New Port'.
3. Enter the IP address of the printer and continue.
4. Select a Device Type of Generic, and complete the wizard.
5. Close the port-type dialog.

Now the driver will print to the network port instead of the USB port, so you may disconnect the USB cable and move the printer to another location on your network.

It is important to consider the network architecture when setting up a printer to be shared among several users, particularly when a variety of operating systems are in use. There are advantages to designating one system as a job management and queuing print server versus allowing each workstation to send jobs directly to the printer. Note that this affects the topology, but not the physical connection, of computers and printers.

For more detailed descriptions of this issue and the installation procedure, please refer to the online documentation.

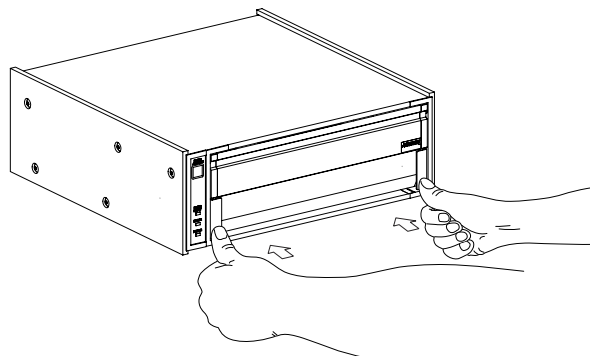
## Operation

### Loading Paper (Internal Roll)

#### 1 Unlock door

Unlock the door of the printer by pressing on the open circles printed on the two latches at the lower corners of the door.

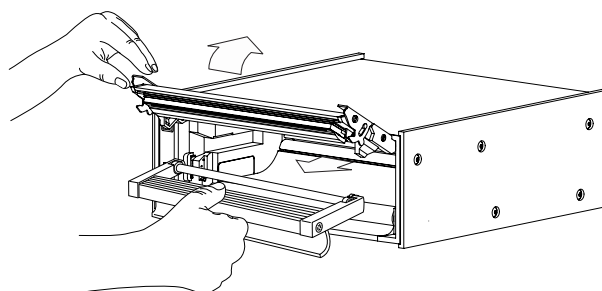
Pull up on the latches to open the door.



#### 2 Remove paper carrier

Remove the paper carrier from the printer and remove the paper rod from the carrier.

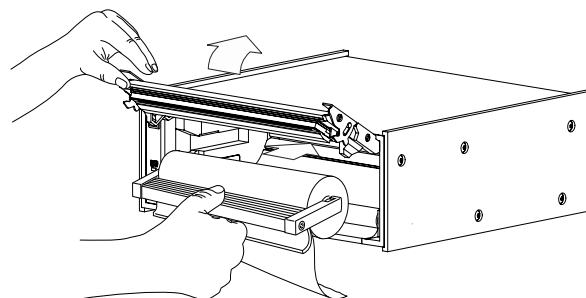
Slip the empty core off the paper rod.



#### 3 Install roll in printer

Slip the paper rod through the core of the new paper roll and install the paper roll on the carrier so the paper feeds from the top of the roll toward the front of the carrier.

Unroll a few inches of paper from the roll so it will extend over the platen after insertion. Insert the paper carrier in the printer and close the door.

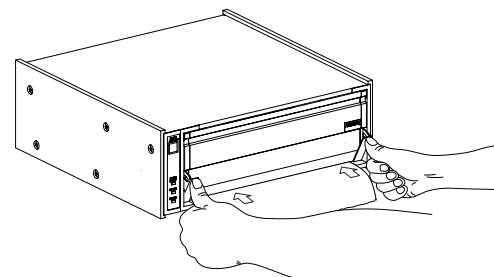


#### 4 Lock door

Refer to the illustration.

Lock the door latches by pressing on the solid circles painted onto them.

Tear off the extra paper.



# Operation

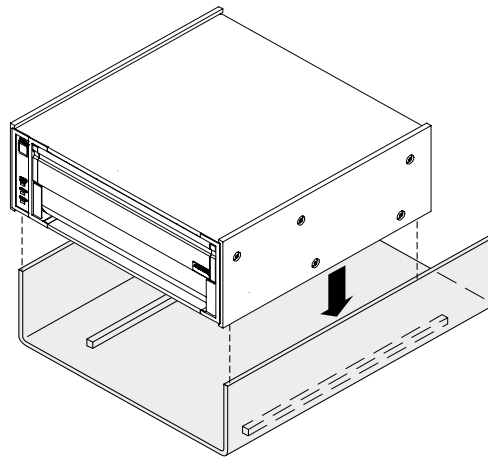
## Loading Paper (External Media)

Models 822DL/G, 823DL/G, 842DL/G, and 843DL/G only

Fan fold paper is threaded through the bottom feed slot. Note: The printer is shown with an optional Paper Tray. See "Accessories" on page 18 for ordering information.

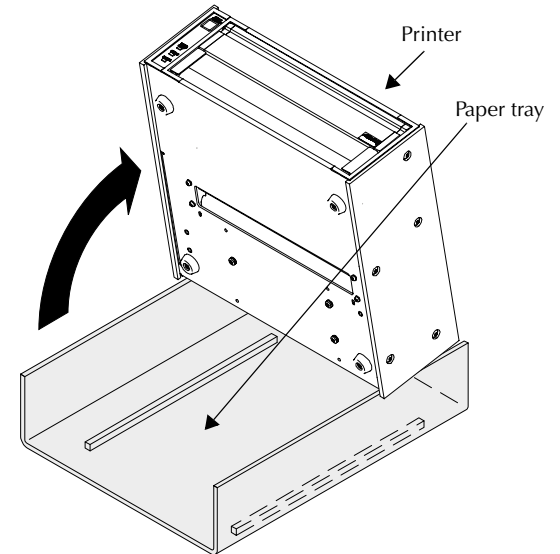
### 1 Place printer on the paper tray

It will rest on the paper tray with the tray edges between the feet and the sides of the printer.



### 2 Rotate printer to an upright position

Open the door and remove the paper carrier (see "2 Remove paper carrier" on page 10).



### 3 Thread paper from the tray through the printer

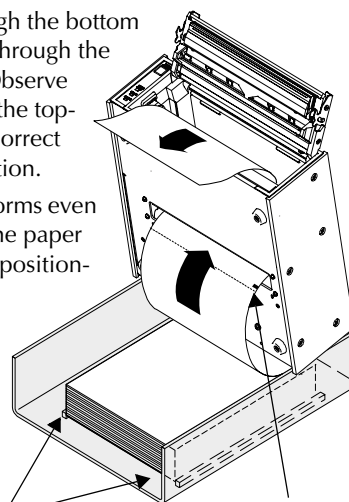
Insert paper through the bottom feed slot and out through the door, as shown. Observe the orientation of the top-of-form mark for correct top-of-form operation.

Position 11-inch forms even with the ends of the paper guides for correct positioning.

Center API forms between the ends of the paper guides for correct positioning

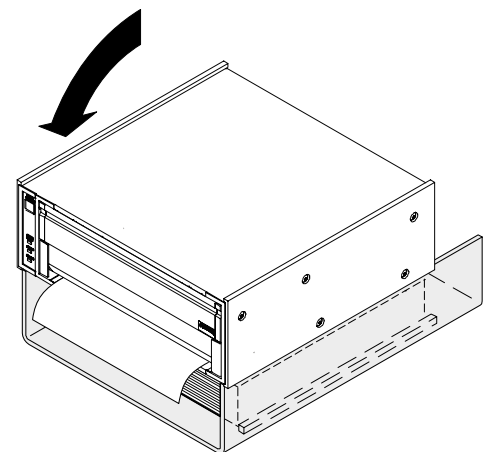
Paper guides

Forms mark



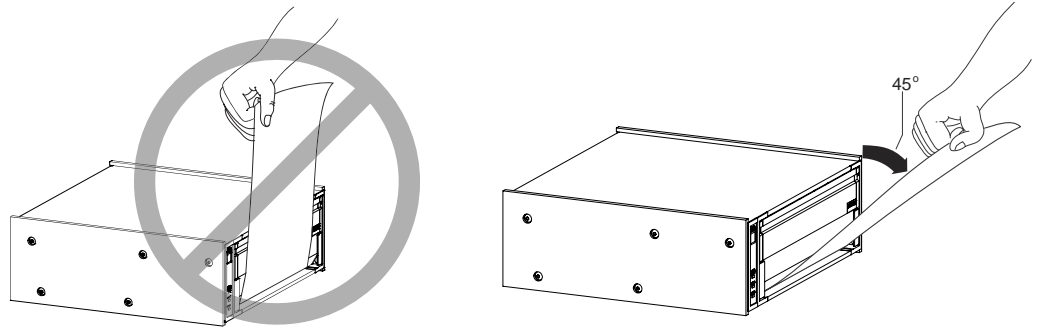
### 4 Return printer to operating position

Return the printer to the horizontal position, insert paper carrier, and close the door. The paper carrier must be installed to position the paper over the paper empty sensor and the form mark sensor.



## Tearing Paper

There are two tear bars, one on the bottom of the front door for tearing up, and one on the printer housing for tearing down. Pull up or down at approximately a 45 degree angle and slightly to the right or left to tear the paper.

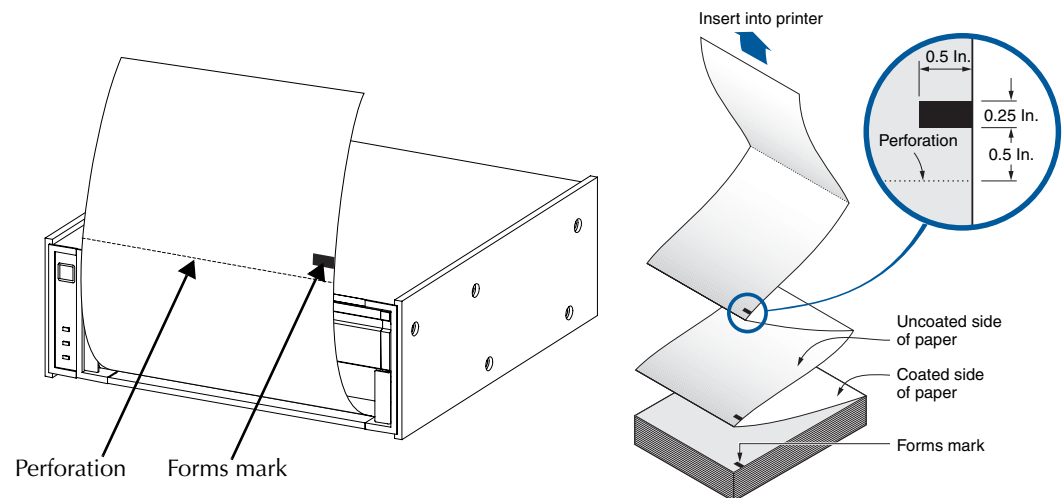


## Forms Marks

The forms mark sensor is located in the front right side of the printer.

- Be sure the paper is loaded as shown below for correct top of form (TOF) detection.
- Be sure the paper size is correctly selected in the Windows driver.

A list of media providers who supply paper with the correct form marker location can be found on the "Contact Us" page of the Printrex website. Most other media suppliers can supply compatibly marked forms provided they receive the marker specifications shown to the right.



## Running Self-Test

To perform self-test, press and hold the PAPER ADVANCE button while turning on power. Once self-test has started, release the PAPER ADVANCE button. In self test, the ERROR indicator lights and the model, interface type, firmware version, and various test patterns are printed. After the last test pattern finishes printing, the test printout stops, the printer exits self test, and it returns to normal operation.

There are times when it is useful to have the test pattern repeated. If the PAPER ADVANCE button is held while the first self test pattern is finishing, the printer will enter a repeating self test mode where the entire self test pattern is repeated until the unit is powered off.

# Operation

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## Advancing Paper

After loading paper, or any time you wish to advance the paper, press the Paper Advance button on the front panel. The printer feeds paper as long as the button is pressed, but will stop when either of two conditions occurs:

- If the paper has form markers printed on the back surface, the printer stops when a marker is detected.
- The printer stops feeding paper if the logical page length has passed without a form marker being detected.

The powerup default page length is 16.7 inches. This length may be changed by sending the printer control codes in software.

Releasing the button and pressing again repeats the cycle of feeding and stopping.



**Note:** The Paper Advance button is inhibited when the printer is executing a print command.

## Printing

When print jobs are sent to the printer continuously, there is no mechanical duty cycle limitation; some users report 10 hours a day of nonstop printing as normal usage. However, if the print data contains an unusually high proportion of black areas, the printer may go into an over-temperature condition.

This may also occur when printing less dense print jobs if the ambient temperature is very high. Refer to “Errors and Error Handling” on page 14 for information about temperature errors indicated on the front panel. Recovery from temperature errors is automatic, and you need do nothing to resume printing.

## Clearing a Paper Jam

If paper has been loaded askew, has been torn off forcefully, or is damp, the paper may feed abnormally and wrap around the platen roller. These occurrences are extremely rare, but it is important to know how to clear the jam:

1. Turn off power to the printer.
2. Open the printer door and remove the paper holder and roller.
3. Tear off the incoming paper (either from the roll, or fanfold supply).
4. Pull on the free end of paper with one hand, while turning the platen roller with the other hand to unroll paper from the platen.
5. Do not use a razor, knife or sharp object of any kind to cut the paper off of the platen roller. Nicking or cutting the roller surface will result in progressive damage to the platen with continued use of the printer.
6. Be very careful not to damage the print head exposed on the underside of the door. Use bare hands to free the paper to avoid accidental contact with metal or hard surfaces

## Additional Controls

The Front Panel controls are intentionally minimal. This helps to prevent users in a networked environment from making unannounced or inadvertent changes to your print jobs. The Printrex Windows drivers send control codes to the printer for each print job, so it is important to check driver settings before printing.



**Note** that some geotechnical applications bypass the Windows drivers, and provide a limited subset of printer controls. Check with your application’s documentation to determine if this is the case. If so, settings made in the Windows driver will not affect printing from these applications.

## Errors and Error Handling

The Error Indicator on the Front Panel indicates a problem with the printer. This indication is a two digit error code expressed as a series of long flashes (for the tens digit) then short flashes (for the ones digit). The tens digit flash is twice as long as the ones digit flash. Example: One long flash followed by two short flashes indicates an error code of 12 (Door Open).

The Error Indicator will continue to flash the error code while the error condition exists. Refer to the following table for a list of error codes and their meaning.

| Error Code | Name              | Description  | Fix  |
|------------|-------------------|--|--|
| 11         | Paper Empty       | The printer is out of paper.   | Load paper.  |
| 12         | Door Open         | One or both of the door latches are open.  | Close both door latches.                               |
| 21         | Under Voltage     | The internal DC supply voltage is too low to print properly.   | Service is generally required to clear this condition. |
| 22         | Over Voltage      | The internal DC supply voltage is too high to print properly.  | Service is generally required to clear this condition. |
| 24         | Over Temperature  | The thermal head is overheated.  | Cleared when the thermal head cools off.               |
| --         | Under Temperature | Printrex printers/plotters do not have an under temperature error. The low operating temperature is specified as 5°C to ensure good quality, but printers are often used where it is necessary to print, even with reduced quality. Under these condition, the print quality may be less than optimal. When printing, the print head temperature quickly reaches normal operating range. |  |

## Troubleshooting

This section lists a few common questions that are received by Printrex support staff and the answers most likely to fix the problem. For further information, see the Printrex System Administrator's Guide.

The printer seems to be working, but nothing is printed.

The thermal paper has one side that has a thermal sensitive coating while the other side is not coated. Be sure the thermally coated side is facing upward (as the paper is exiting the printer).

I'm using fanfold paper with form markers, but the printer stops in the wrong place. What driver settings should I use?

Be sure to set Paper Size to the actual size of the paper (e.g., 8.75" x 6.25"), and enable End-of-Job Form Feed.

Also, see that the Form Marker setting (in the Windows XP/Vista driver) matches the actual printed location of the marker.

Check that the paper is loaded correctly: looking at the front of the printer, the marker should be on the right side, on the bottom of the paper.

I'm trying to print TIFF files, but the printed output is clipped off. How do I print the whole log?

# Troubleshooting

---

Commonly, users view TIFF logs in Windows Imaging, the free viewer provided in the Accessories folder. Unfortunately, this is a single-page application. It is designed for simple photograph-size viewing and printing.

In addition, the Windows printing subsystem formerly limited printer pages to 32,766 raster lines (approximately 163 inches long for 200 dpi Printrex printers, or 109 inches for 300 dpi Printrex printers), so the longest log that could be printed from Windows Imaging was just 13 feet long.

In Windows XP, the Imaging applet was replaced by a new Paint applet that uses multiple printer pages. In this case, set the printer page size to the paper's page size (e.g., 8.75" x 6.25" half page), and Paint will generate as many printer pages as needed to print the log.

In most of the larger geotechnical organizations, proprietary viewers have been written for internal use by staff and customers. There are very few options for users of TIFF log files who are not using Windows XP, or who find the XP Paint application too primitive.

Printrex welcomes comments regarding requirements and features for log viewing tools, to help us evaluate customer viewer application needs.

Every time I start my program, I have to change printer settings. How do I change the default driver settings?

Changes to the printer settings done from within an application are generally not saved unless some unusual program coding is done.

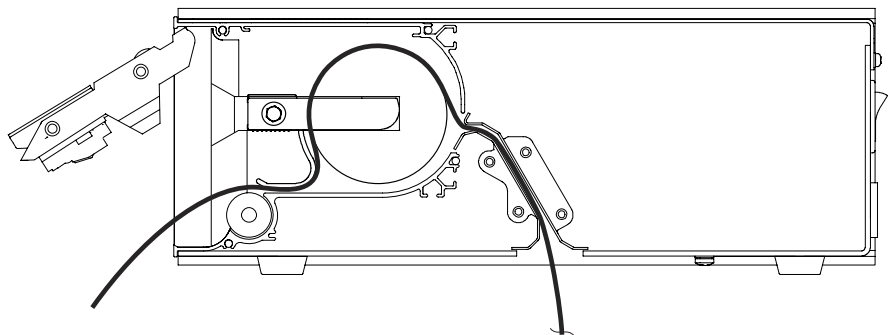
Self test prints out OK but when I print from the computer I get garbage.

The most common culprits for this symptom are the printer cable or printer driver. Be sure the cable is appropriately connected (see "Connecting the USB Cable" on page 9). Also, be sure the printer driver is for the specific model of printer in use.

Some times the fan-fold paper skews to one side or the other. How do I correct this?

The Printrex printers work with a wide variety of media. A paper skewing problem is normally corrected by realigning the paper manually, by opening the door, straightening the paper, and closing the door.

In some cases (generally with very thin paper) the problem may persist. If this is the case, thread the paper over a full internal roll of paper (as shown) to remedy the situation.



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## Care and Cleaning

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### General Cleaning

There is no regular cleaning required for proper operation of the printer, however the printer surfaces are designed and manufactured to permit cleaning with the following cleaning agents:

- Isopropyl alcohol
- Ammonia
- Chlorine bleach (1:10 concentration with water)
- Hexachlorophene (PhisoHex)
- Glutaraldehyde (Cidex)

Use a soft cloth dampened with the cleaning agent to clean the surfaces of the printer. Do NOT submerge the printer or allow spills onto or into it.

### Protecting the Thermal Head

The thermal head incorporates a protective glaze coating and is generally resistant to harsh environments, but follow these guidelines to protect it:

- Do not allow the thermal head to come into contact with sharp or hard objects.
- Do not allow thermal paper debris to accumulate on the thermal head. See below.
- Do not allow condensation to accumulate on the thermal head.
- Use only Printrex approved thermal paper.
- Do not use abrasive cleaning substances on the thermal head. See below.

### Cleaning the Thermal Head

Paper dust or other foreign material may occasionally accumulate on the thermal print head. This will be indicated by light printing or no printing in a narrow band down the length of the paper. In order to eliminate the thermal paper debris buildup, use a soft cloth moistened with one of the following cleaning agents:

- Isopropyl alcohol
- Ethanol

A light wiping along the length of the print head is adequate. Allow the print head to dry before resuming printing. It can be wiped dry with a soft, clean cloth. Do NOT submerge the print head or allow spills onto it.

### Cleaning the Form Sensor

Paper dust or other foreign material may occasionally accumulate on the form sensor. This will be indicated by paper advances missing the top of form position (some time after it has been correctly stopping at the top of form). The form sensor can be cleaned with an aerosol air spray or soft bristled brush. It is located just under the form sensor window.

### Long Term Storage

With the door closed, the thermal head applies considerable pressure on the rubber platen roller (approximately 12 lbs). If the printer is stored for long periods of time with the door closed (especially in cold temperatures), a slight flat area may develop on the rubber platen roller. To avoid this, keep the door in an unlatched condition if you anticipate an extended period of disuse or storage.

If a flat spot on the rubber platen roller occurs, it is not permanent and the platen will return to its normal roundness after 10 minutes (on average) of resumed operation.

# Support/Service

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## Support/Service

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### Printrex Warranty

Printrex products are warranted to be free from failures due to defects in material or workmanship for twelve (12) months from the date of purchase. During this 12 month period, Printrex will, at its sole discretion, repair or replace at no charge the product, which in its opinion, is defective.

If the product has been modified without Printrex consent or if the failure is the result of misuse, abuse or misapplication, this warranty obligation is void.

### Consumables Warranty

Printrex warrants that the thermal print head will be free from defects in material or workmanship for the expected life of the print head but for not more than one (1) year from the date of purchase.

The print head is a consumable because it wears as media passes under it and as it receives electrical pulses. The expected life of a thermal print head is the passage of 50 KM (approximately 31 miles) of media (paper or film) or 100 million pulses in any head element. Therefore the warranty is pro rated over the expected life of the head.

Print heads returned for warranty replacement will have the following credits applied

- Up to 3 months use = 100%
- Between 3 and 6 months = 75%
- Between 6 and 9 months = 50%
- Between 9 and 12 months = 25%
- More than 12 months = expired warranty

Except as provided above, the hardware and accompanying written material, including this User Guide, are provided "as is" without warranty of any kind, including the implied warranties of merchantability and fitness for a particular purpose, even if Printrex has been advised of that purpose. In no event will Printrex be liable for any direct, indirect, consequential or incidental damages arising out of the use or inability to use such product even if Printrex has been advised of such damages.

### Obtaining Service

Before returning a failed unit, the buyer must first obtain a Return Material Authorization (RMA) number by contacting Printrex's Customer Service. The RMA number should be prominently displayed on the outside of the returned package and on the accompanying packing list. Printrex cannot be held responsible for any package returned without an RMA number. The model and serial number of the printer are on the chassis label, which is located on the rear of the printer. Please have this information available when service is required.

You are responsible for packing the failed product in original or equivalent packaging for shipment, and for the charges to ship the failed product to Printrex. Printrex is responsible for charges to ship the repaired or replaced product if under warranty. If any charge to you is involved, Printrex, at its sole option, will bill you or return the product C.O.D.

### Self Service

Printrex recognizes that some customers have service departments that are capable of servicing the Printrex products. For this case, Printrex offers a Self Service Reference. This reference includes assembly drawings with bills of material so that replaceable internal components can be identified and ordered. Please contact Printrex Customer Service to obtain a Self Service Reference for your product(s). For self service, the owner assumes the risk of damage to the unit which may void the warranty.

### Spare Parts

| <u>Description</u> | <u>Part Number</u> |
|--------------------|--------------------|
| Paper Carrier..... | 2111-0189          |
| Paper Rod.....     | 2012-0008          |

|   |           |
|---|-----------|
| Power Cord (Central Europe plug).....                 | 2237-0004 |
| Power Cord (United Kingdom plug) .....                | 2237-0061 |
| Power Cord (United States plug) .....                 | 2237-0007 |
| Power Cord (Chinese plug) .....                       | 2237-0107 |
| Ethernet I/O Cable .....                              | 2112-0195 |
| USB I/O Cable.....                                    | 2112-0196 |
| Print Head Assembly (822G, 822DL/G, and 842DL/G)..... | 2111-0175 |
| Print Head Assembly (823G, 823DL/G, and 843DL/G)..... | 2111-0249 |

## Supplies

| <u>Description</u>                                      | <u>Part Number</u> |
|---|--------------------|
| Roll Paper, 130' length.....                            | 2316-0001          |
| Roll-FF Paper, 135' roll (6 1/4" Perf. Intervals) ..... | 2316-0013          |
| Fan-Fold Paper, 8.75 x 6.25 inch, 800 sheet box .....   | 2316-0011          |
| Roll Matte Film, 117' length .....                      | 2316-0009          |

## Accessories

| <u>Description</u>                                   | <u>Part Number</u> |
|--|--------------------|
| Paper Tray (Bottom feed tray, for DL/G models) ..... | 2320-0014          |

## Windows Drivers

Windows drivers are available from the Support area of the Printrex web site.

# Safety

## Restrictions on Use

Use this equipment only for the intended use described in this guide.

- Do not use power supplies outside the specified voltage/hertz range.
- Do not block any openings on the equipment.
- Do not use corrosive chemicals or vapors on or near the equipment.
- Do not expose equipment to rain, spills, or moisture.

## Grounding

This equipment must be grounded to conform with legal and safety standards. Connect only to a properly grounded outlet.

## Power Cord

The power cord supplied with the equipment is rated and approved for service to this equipment.

- Do not use a power cord other than that supplied with the equipment.
- Do not operate the equipment if it has a damaged power cord or plug.
- Do not immerse the power cord or plug in water.

## FCC Compliance

This unit has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

# Specifications

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## CE Compliance

The manufacturer declares that this product conforms to the following standards or other normative documents:

EMC: EN 55022:1998 Limits and Methods of Measurements of Radio Interference Characteristics of Information Technology Equipment, Class A, including amendments A1:2000, A2:2003

EN 50024:1998 Limits and method of measurement of Immunity characteristics of Information technology equipment, including amendments A1:2001, A2:2003

Safety: EN 60950-1:2001 Safety of information technology equipment including electrical business equipment, including amendment A11:2004

# Specifications

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## General

Power Requirements (822G, 823G, 822DL/G, 823DL/G).. 100-240 VAC, 240 VA, 50~60 Hz  
Power Requirements (842DL/G, 843DL/G) ..... 100-240 VAC, 500 VA, 50~60 Hz  
Height ..... 4.5 inch (114 mm)  
Width ..... 12.2 inch (310 mm)  
Depth ..... 12.4 inch (315 mm)  
Unit Weight ..... 14 lbs (6.4 kg)  
Shipping Weight ..... 18 lbs (8.2 kg)  
Interfaces ..... USB 2.0, 100 Mbit Ethernet

## Performance

Print Speed (822G, 823G, 822DL/G, 823DL/G)..... 0.5 to 2 inch/sec  
Print Speed (842DL/G, 843DL/G) ..... 0.5 to 4 inch/sec  
Horizontal Resolution (822G, 822DL/G, 842DL/G) ..... 203 dpi (8 dots/mm)  
Vertical Resolution (822G, 822DL/G, 842DL/G) ..... 203 dpi (8 dots/mm)  
Horizontal Resolution (823G, 823DL/G, 843DL/G) ..... 300 dpi (12 dots/mm)  
Vertical Resolution (823G, 823DL/G, 843DL/G) ..... 300 dpi (12 dots/mm)

## Forms Compatibility

Overall Forms Width ..... 8.75 inch (222 mm)  
Internal Roll Capacity ..... 2.6 inch (66 mm) diameter roll  
For 822DL/G, 823DL/G, 842DL/G, and 843DL/G:  
Bottom Feed Roll Capacity ..... 5 inch (152 mm) diameter roll  
Bottom Feed Fan-fold Capacity ..... 18 inch (457 mm) stack height  
Forms Marks ..... see "Forms Marks" on page 12 for Forms Mark specifications

## Environmental

Storage Temperature ..... -40°C (-40°F) to 60°C (140°F)  
Operating Temperature ..... 5°C (41°F) to 40°C (104°F)  
Shock and Vibration (non-operational).....3G, 0 to 50 Hz, 3 axes  
Environmental Ingress (IEC 529)..... IP54

## Regulatory

See page 18.

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