

GERBER **EDGE FX™**



Owner's Guide

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FCC Compliance

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment 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.

This Class A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

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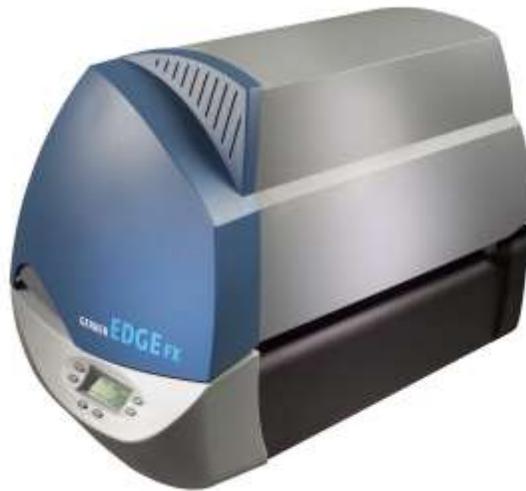
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Chapter 1: Introduction

Thank you for purchasing the GERBER EDGE FX™, the next generation of Gerber thermal transfer printing. The GERBER EDGE FX is the successor to the GERBER EDGE and GERBER EDGE 2 and is compatible with Gerber OMEGA™ 2.1 or higher.



The GERBER EDGE FX includes these valuable features:

- ◆ Accommodates standard 15" sprocketed material
- ◆ Maximum print width of 11.84" (30 cm)
- ◆ Three resolution settings: 300 x 1200 DPI, 300 x 600 DPI, or 300 x 300 DPI
- ◆ Print speeds up to one inch per second
- ◆ Communication via TCP/IP based networking over 10BASE-T/100BASE-TX Ethernet
- ◆ Reloadable foil cartridges
- ◆ Intelligent foil cartridge technology which records the type of foil and remaining length
- ◆ Accommodates short and or long rolls of foil (15 to 91 meters) with no registration degradation
- ◆ Foil and material substitutions at the GERBER EDGE FX control panel
- ◆ Web page-based control of the GERBER EDGE FX setup parameters and diagnostics
- ◆ Compatible with OMEGA 2.1 or higher

In this manual

This manual is divided into the following chapters:

Chapter 1: Introduction provides general information about the GERBER EDGE FX, how this book is organized, and how to get help if you have problems with your GERBER EDGE FX.

Chapter 2: Installing the GERBER EDGE FX describes the contents of the shipping containers, environmental requirements, and the physical connections that have to be made between the EDGE FX and the network.

Chapter 3: Material and Foil Handling describes how to load the material and foil into the GERBER EDGE FX and describes the procedure for assembling a foil cartridge.

Chapter 4: Operating the GERBER EDGE FX describes the controls on the GERBER EDGE FX keypad and how to print a job from OMEGA via the network.

Chapter 5: Configuring the GERBER EDGE FX via the Web Interface explains the web interface that is used to monitor system status, and change settings.

Chapter 6: Troubleshooting provides guidelines for responding to messages that appear on the GERBER EDGE FX display, how to correct typical printing problems, and how to return to factory default settings. It also explains the tools on the Diagnostic web pages.

Chapter 7: GERBER EDGE FX Maintenance describes basic cleaning procedures that should be performed to provide the best print quality and keep the GERBER EDGE FX in operating condition. It also describes fuse replacement.

Support Information



If you require assistance, please contact your Gerber distributor or contact the Gerber Field Service Department at:
phone: 800-828-5406/ 860-644-1551, ext. 8602
fax: 860-871-3862



e-mail: gpservice@gspinc.com



www.gspinc.com

Additional sources of information

Gerber FastFacts™ provides answers to technical and service questions. FastFacts are available on the Gerber web site: www.gspinc.com under “Support.”

Electronic versions of this manual and other documentation are available from the eService Document Library which can be accessed from the Gerber web site: www.gspinc.com under “Support.” You must sign up for a free customer account to access the eService location.

Conventions

The following conventions are used in this manual:



Note: A note contains important information which could affect successful completion of a task.



Tip: A tip contains valuable information that could make the task faster or easier.



CAUTION: A caution statement contains information which, if not observed, could result in damage to the equipment.



WARNING: A warning statement contains information which, if not observed, could result in personal injury.

Chapter 2: Installing the GERBER EDGE FX

This chapter describes the steps required to properly install the GERBER EDGE FX:

- ◆ Unpacking the GERBER EDGE FX
- ◆ Environmental requirements
- ◆ Power requirements
- ◆ Connecting the power
- ◆ Networking the GERBER EDGE FX
- ◆ Installing OMEGA 2.1 or higher software
- ◆ Installing the GERBER EDGE FX in OMEGA 2.1 or higher software

Unpacking or repacking the GERBER EDGE FX

The GERBER EDGE FX is shipped from the factory in reusable packaging materials. Save these packaging materials for future use in case you need to ship the GERBER EDGE FX. Provided separately with the GERBER EDGE FX is the *Unpacking/Packing and Installation Guide* which includes information on unpacking and repacking the GERBER EDGE FX. Save this important document with the packaging for future reference.



CAUTION: Failure to repackage the printer with specified packaging materials may result in damage to the unit during shipping. Always repack the printer as described in the *Unpacking/Packing and Installation Guide*. Gerber is not liable for shipping damage due to improperly packed units. If you do not have the proper packaging materials, call Gerber Service at 800-828-5406.

Contents of the shipping box

The GERBER EDGE FX is shipped in two boxes. A main box which contains the printer, product documentation, an accessories box and a roll holder box. The contents of the main box are as follows:

- ◆ GERBER EDGE FX printer unit
- ◆ Roll holder
- ◆ Gerber 220 High Performance white film (10 yard roll)
- ◆ Accessories box which contains:
 - ◆ GERBER EDGE FX Unpacking/Packing and Installation Guide

- ◆ Warranty Registration Card
- ◆ Documentation CD with GERBER EDGE FX Owner's Guide.pdf
- ◆ GERBER EDGE FX power cable (14.5 feet/ cm)
- ◆ GERBER EDGE FX CAT 5 cross-over Ethernet cable
- ◆ Thermal print head cleaning kit
- ◆ Two 10 amp fuses
- ◆ Foil squeegee (replacement)
- ◆ Material squeegees (replacements - qty. 2)
- ◆ GERBER EDGE FX Foil Caddy
- ◆ GerberColor EDGE FX Foil (Spot Raspberry 15 meter roll)

Environmental requirements

The GERBER EDGE FX should be installed in a room that is relatively clean and dust-free. The recommended working environment is as follows:

- ◆ Operating temperature: 50° to 95° F / 10° to 35° C,
- ◆ **Recommended temperature for assured printing accuracy: 68° to 78° F / 20° to 26° C**
- ◆ Operating humidity: 20 to 90% relative humidity, non-condensing (**maximum range; actual range varies by material used**)
- ◆ Storage temperature: 14° to 100° F / -26° to 60° C

Power requirements

The GERBER EDGE FX requires the following power: 100-240 VAC, 10-6 A, 47-63 Hz

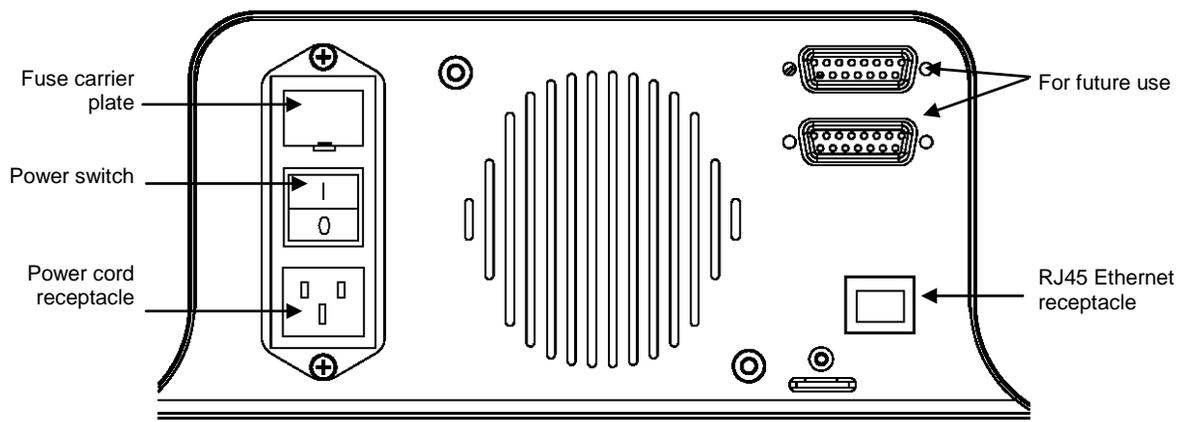


WARNING: All power cables used must meet power requirements.

WARNING: Double pole neutral fusing.



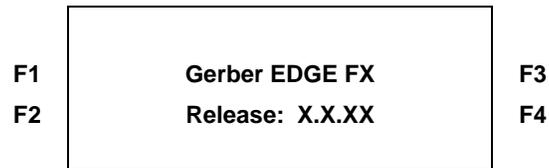
Terminal for connection of protective earthing conductor.



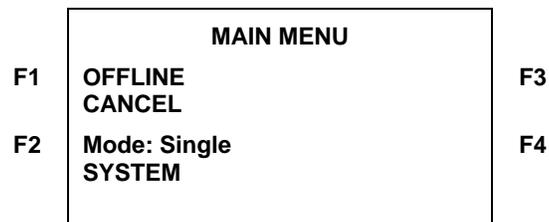
GERBER EDGE FX back panel

Powering on the GERBER EDGE FX

After connecting the computer, plug the power cord into the receptacle at the back of the printer and then into a power outlet. Turn on the power switch located at the back of the printer. During the power up cycle the GERBER EDGE displays:



Before printing the Gerber EDGE FX warms the Thermal Print Head (TPH) and displays a **Warming ******* message on the bottom line of the display. When the TPH reaches operating temperature the display changes to:



Connecting the GERBER EDGE FX to your computer

The GERBER EDGE FX is a network device which has a 10/100 Mbps auto-switch network interface that can communicate with your computer's 10/100 Mbps network card. (A network interface board is in most new computers or is readily available for your computer at local computer stores.) Data needs to be supplied above a minimum rate to prevent printing anomalies. Gerber strongly recommends communicating via the 100 Mbps interface. An EDGE FX connected directly to a computer via a crossover cable should function properly using a 10 Mbps interface. When connected to a larger network, you will obtain more reliable communication when communicating via the 100 Mbps interface. The 10 Mbps interface is not recommended for larger network situations.

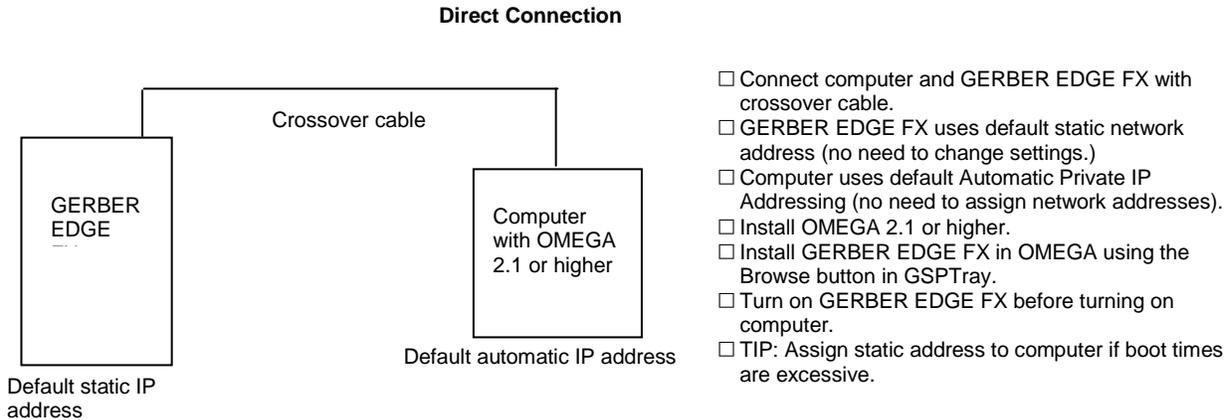
In addition to the GERBER EDGE FX computer requirements needed for network connectivity, Gerber OMEGA™ software has additional system requirements regarding computer speed, memory, hard disk space, etc. Please refer to the OMEGA software literature for current specifications.

The following illustrations depict three ways to connect the GERBER EDGE FX to your computer:

- ◆ Direct connection to the computer with a crossover cable using static addresses
- ◆ Network connection to a network hub or switch using static addresses
- ◆ Network connection to a network router equipped with DHCP

Direct connection to the computer with a crossover cable

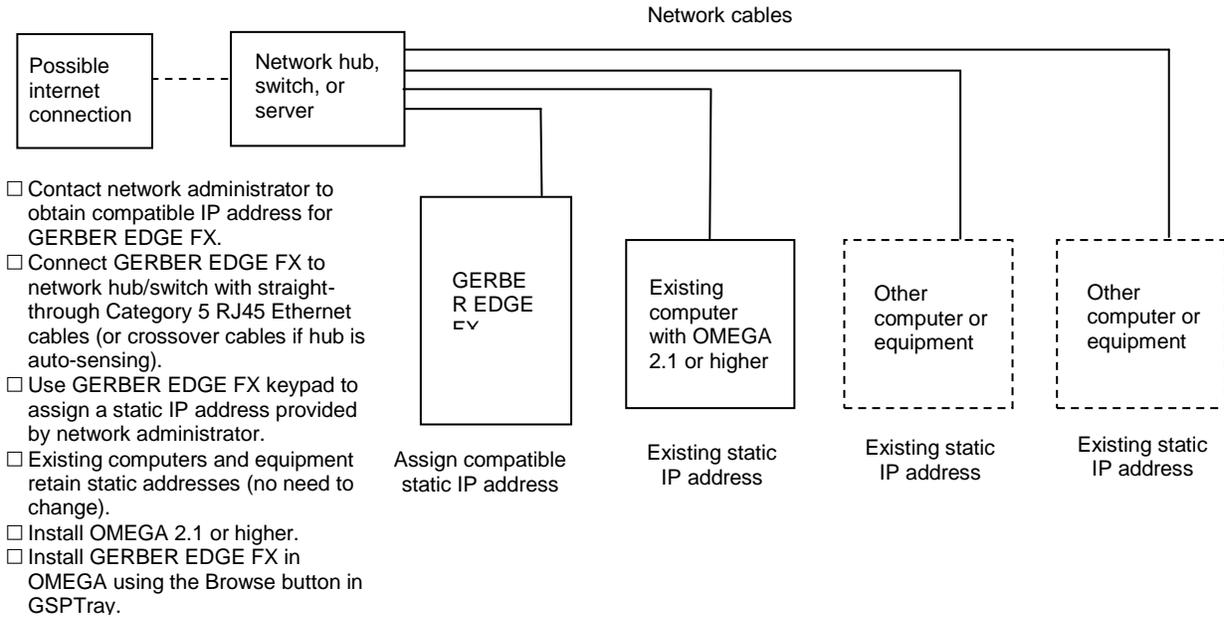
When the GERBER EDGE FX ships its default network setting is a static network address designed for direct connection to a computer using a crossover cable. See the following illustration. See “Using direct connection” on page 10 for more detailed instructions. If your computer uses high speed internet access via a DSL modem, you will need to obtain a switch to connect the GERBER EDGE FX and the modem to the computer. See the following scenarios “Network connection to a network hub or switch using static addresses” or “Network connection to a network router equipped with DHCP.”



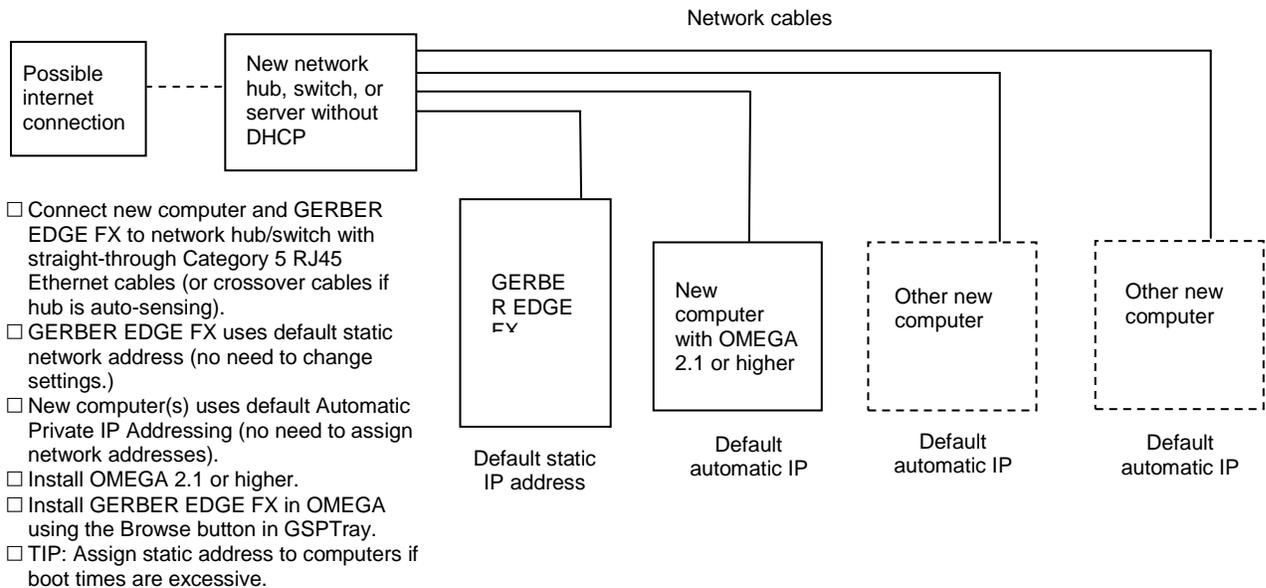
Network connection to a network hub or switch using static addresses

Some locations may connect the EDGE FX to a new or existing network that uses static network addresses. Two typical scenarios are shown in the following illustrations: a new network or an existing network. See “Using network connection with static addresses” on page 18 for more detailed instructions.

Existing Network using Static IP Addresses



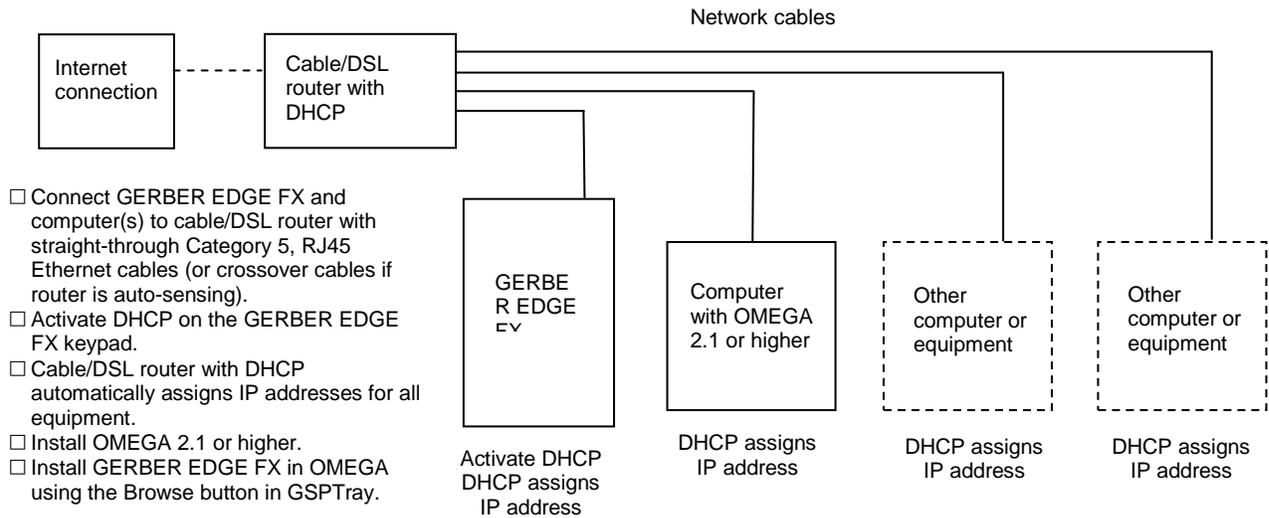
New Network Connection using Static IP Addresses



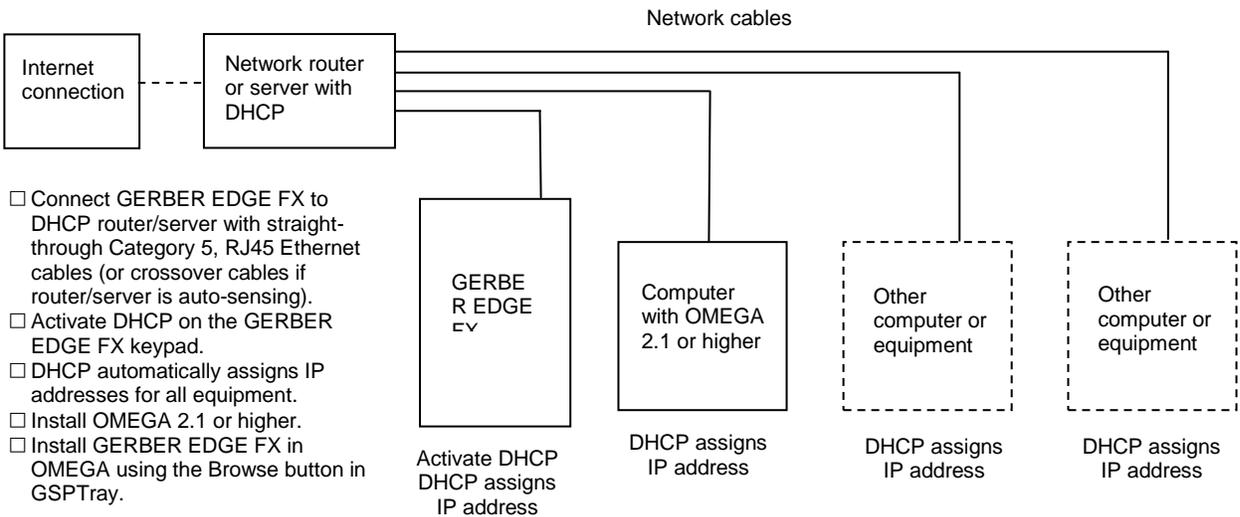
Network connection to a network router equipped with DHCP

Some locations may activate DHCP (dynamic host configuration protocol) on the GERBER EDGE FX and allowing a network equipped with a DHCP server to automatically assign addresses. Two typical scenarios are shown in the following illustrations: a new network with DHCP cable/DSL router or an existing DHCP network. See "Using DHCP to assign network addresses" on page 23 for more detailed instructions.

New Network with a DHCP Cable/DSL Router



DHCP Network



Using direct connection

A new computer defaults to DHCP (dynamic host configuration protocol) for network addressing. When the computer initializes it first searches for a DHCP server. If it fails to find a DHCP server, the computer automatically selects a network address using Windows Automatic IP Addressing. The range of IP addresses in Automatic Private IP Addressing are as follows:

- ◆ 169.254.000.000 to 169.254.255.255

The default network address of the GERBER EDGE FX falls within the range of Automatic Private IP Addressing:

- ◆ GERBER EDGE FX IP Address: 169.254.128.129
- ◆ Subnet Mask for GERBER EDGE FX: 255.255.0.0

A new (unconfigured) computer connected directly to the printer via a crossover cable should be able to communicate without altering the network address of either piece of equipment.

To directly connect the GERBER EDGE FX to the computer

- 1 Connect one end of the supplied Category 5 crossover cable to the RJ45 jack on the back of the GERBER EDGE FX and the other end into the network interface board RJ45 jack on the computer.
- 2 When connecting directly to a computer that has not been configured for networking, the default IP Address and Network Mask of the GERBER EDGE FX should be correct and will not need to be changed.
- 3 If the computer is running under Windows default networking scheme, the computer's network address will be assigned by Windows Automatic Private IP Addressing and should not need to be changed.

If the computer has been previously configured for networking, you may need to set your computer's network address or GERBER EDGE FX network address to be compatible with each other. See "Setting the network address of the GERBER EDGE FX from the printer keypad" on page 12 or "Setting the IP Address and Network Mask of your computer for direct connection" on page 14 for detailed instructions.

- 4 Install the GERBER EDGE FX using GSPTray. The software should automatically find the printer on the network. See "Installing the GERBER EDGE FX in OMEGA software" on page 26.
- 5 If you have trouble finding or communicating with the GERBER EDGE FX, check if the network jack LEDs light when the cable is connected. You can also check connectivity between the computer and printer as described in "Checking network connections" on page 25.



Tip: If you have connected the computer directly to the GERBER EDGE FX using the Windows default network addressing scheme, and the computer initialization time seems to be excessive, you can assign a static IP address. Follow the procedure "Setting the IP Address and Network Mask of your computer for direct connection" on page 14.



Note: Turn on and allow the GERBER EDGE FX to initialize before starting the computer that is connected via the crossover cable. Some computers ignore Ethernet connections if they are not live when the computer is initialized.

Setting the network address of the GERBER EDGE FX from the printer keypad

The default address for the GERBER EDGE FX was chosen to work with a crossover cable and Windows Automatic Private IP Addressing. For computers that have not been configured for networking, the default address should be acceptable. For existing networks, the defaults may not apply. Contact your network administrator or IT professional for assistance in assigning the correct address.

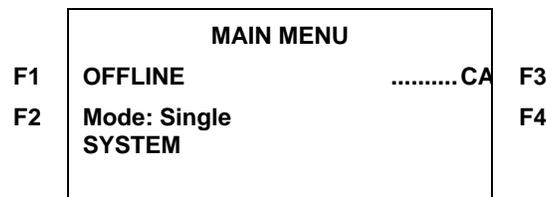
This procedure uses the following default network address:

- ◆ GERBER EDGE FX IP Address: 169.254.128.129
- ◆ GERBER EDGE FX Subnet Mask: 255.255.0.0

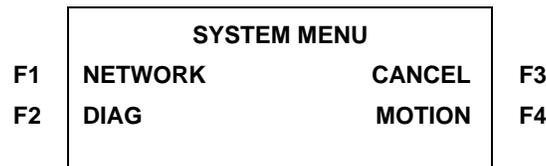
If necessary, replace the network address in this procedure with the proper address obtained from your network administrator or IT professional.

➔ To set the network address of the GERBER EDGE FX from the printer keypad

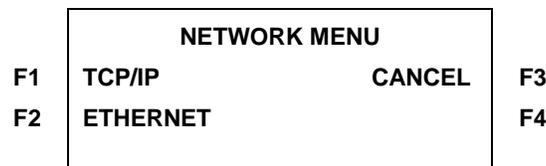
- 1 From the MAIN MENU use F1 to toggle to OFFLINE.



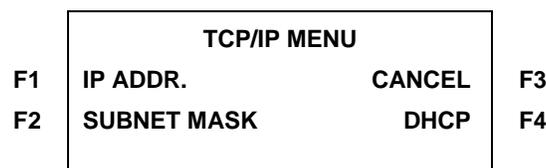
- 2 Press F4, SYSTEM to display the SYSYEM MENU.



- 3 Press F1, NETWORK to display the NETWORK MENU.



- 4 Press F1, TCP/IP to display the TCP/IP MENU where you can change the IP Address of the GERBER EDGE FX.



- 5 Press F1, IP ADDR. to open the IP ADDRESS MENU where you change the IP address. The — designates which octet (three digit section of the address ranging from 000 to 255) is available to be changed. Use F4, NEXT to move the active designation to the octet that you wish to update.

IP ADDRESS MENU			
F1	SAVE	CANCEL	F3
F2	—	NEXT	F4
169 . 254 . 128 . 129			

- 6 Use the Left or Right Slew keys to change the value of the octet. Press F4, NEXT to move the active designation to the next octet and change that value. Continue until the entire IP Address is updated.



Note: This procedure uses the default IP address of the GERBER EDGE FX as an example. Your IP address for the printer may be different.

- 7 Press F1, SAVE to set the displayed IP Address. The display changes to: **IP Address used after reboot**. Continue with step 8. The address will be active after cycling the printer power at the end of the procedure.
- 8 Press F3, CANCEL to leave the IP Address Menu and return to the SYSTEM MENU.

- 9 Press F1, NETWORK to display the NETWORK MENU.

NETWORK MENU			
F1	TCP/IP	CANCEL	F3
F2	ETHERNET		F4

- 10 Press F1, TCP/IP to display the TCP/IP MENU where you can change the Subnet Mask of the GERBER EDGE FX.

TCP/IP MENU			
F1	IP ADDR.	CANCEL	F3
F2	SUBNET MASK	DHCP	F4

- 11 Press F2, SUBNET MASK to open the SUBNET MASK MENU where you can change the Subnet mask of the printer. The — designates which octet is available to be changed. Use F4, NEXT to move the active designation to the octet you wish to update.

SUBNET MASK MENU			
F1	SAVE	CANCEL	F3
F2	—	NEXT	F4
255 . 255 . 000 . 000			

- 12 Use the Left or Right Slew keys to change the value of the octet. Press F4, NEXT to move the active designation to the next octet and change that value. Continue until the entire Subnet Mask is updated.
- 13 Press F1, SAVE to set the displayed Subnet Mask. The display changes to: **Subnet Mask used after reboot.**
- 14 Press F3, CANCEL to exit the menu and return to the MAIN MENU.
- 15 Cycle the power to the GERBER EDGE FX. The network address will be active after cycling the printer power.

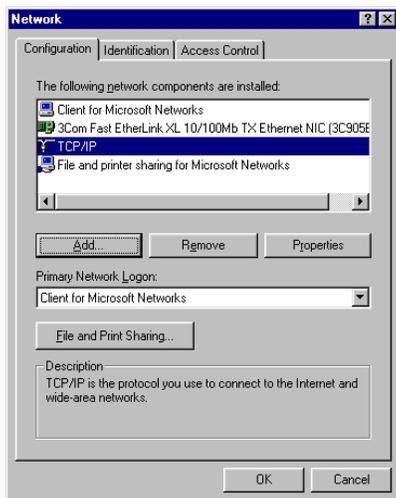
Setting the IP Address and Network Mask of your computer for direct connection

If you need to change the network address of your computer that is directly connected to the GERBER EDGE FX, follow the procedure for your Windows operating system (Windows 98 SE (with Internet Explorer 5.5 or higher), Windows XP, or Windows 2000). These procedures use the following address for the computer:

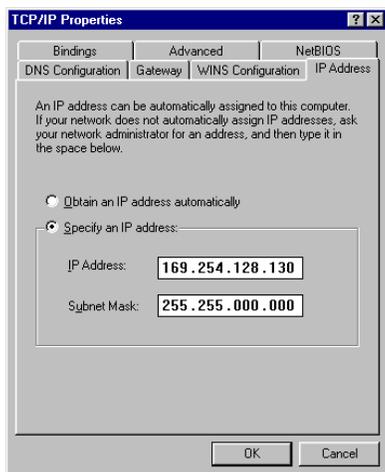
- ◆ Computer IP address: 169.254.128.130
- ◆ Computer Network Mask: 255.255.0.0

➔ **To set the IP Address and Network Mask for Windows 98 SE with IE 5.5 or higher**

- 1 Click Start > Settings > Control Panel.
- 2 Double-click the Network icon.
- 3 Click the Configuration tab.
- 4 Click TCP/IP.



- 5 Click Properties to open the TCP/IP Properties dialog box.

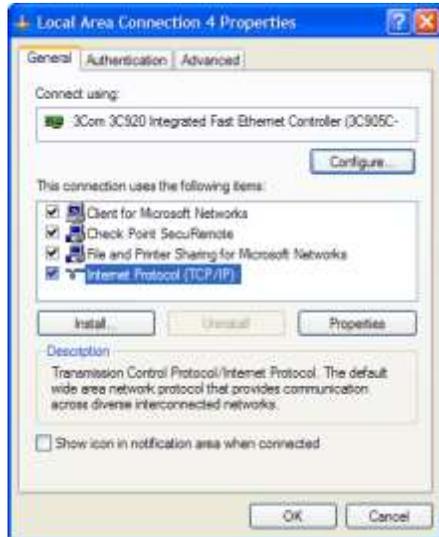


Note: Depending on your setup, your computer's IP address may vary.

- 6 On the IP Address tab, click Specify an IP Address:
- 7 Enter 169.254.128.130 for the IP Address.
- 8 Enter 255.255.000.000 for Network Mask.
- 9 Do not enter a Gateway address; it is not required for direct connection.
- 10 Click OK to close the TCP/IP Properties dialog box.
- 11 Click OK to close the Network dialog box.

➤ **To set the IP Address and Network Mask for Windows XP**

- 1 Click Start > Control Panel.
- 2 Click Network and Internet Connections.
- 3 Click the Network Connections icon.
- 4 Right click the Local Area Connections icon and choose Properties to open the Local Area Connections Properties dialog box.
- 5 Click Internet Protocol (TCP/IP) in the list.



- 6 Click Properties to open the Internet Protocol (TCP/IP) Properties dialog box.



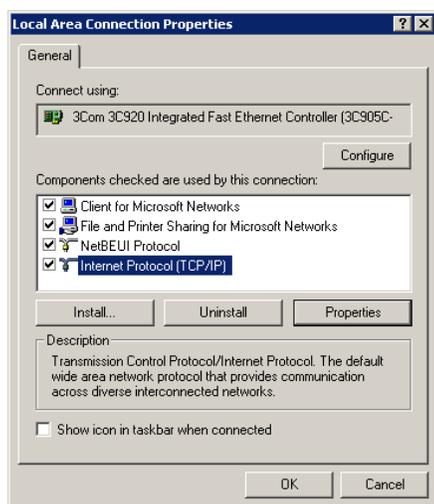
Note: Depending on your setup, your computer's IP address may vary.

- 7 Click **Use the following IP address**.
- 8 Enter 169.254.128.130 for IP Address.
- 9 Enter 255.255.0.0.000 for Network Mask.

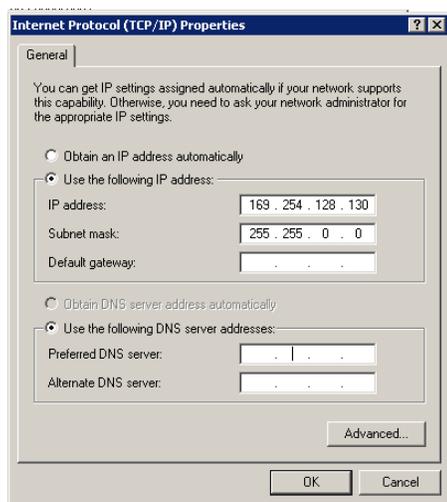
- 10 Do not enter a Default Gateway; it is not required for direct connection. Leave the fields blank.
- 11 Click OK to save the settings and exit the Internet Protocol (TCP/IP) Properties dialog box.
- 12 Click OK to close the Local Area Connections Properties dialog box.

➔ To set the IP Address and Network Mask for Windows 2000

- 1 Click Start > Settings > Control Panel.
- 2 Double-click the Network and Dial up Connections icon.
- 3 Right-click the Local Area Connection icon and choose Properties from the context menu to display the Local Area Connection Properties dialog box.



- 4 Click Internet Protocol (TCP/IP) in the list.
- 5 Click Properties to open the Internet Protocol (TCP/IP) Properties dialog box.



Note: Depending on your setup, your computer's IP address may vary.

- 6 Click Use the following IP address:
- 7 Enter 169.254.128.130 for IP Address.
- 8 Enter 255.255.000.000 for Network Mask.
- 9 Do not enter a Default Gateway; it is not required for direct connection. Leave the fields blank.
- 10 Click OK to save the settings and exit the Internet Protocol (TCP/IP) Properties dialog box.
- 11 Click OK to exit the Local Area Connection Properties dialog box.

Using network connection with static addresses

The GERBER EDGE FX is a network device which has a 10/100 Mbps auto-switch network interface board that can communicate with computer's 10/100 Mbps network card. Data needs to be supplied above the minimum rate to prevent printing anomalies. You will obtain more reliable communication when communicating via the 100 Mbps interface.

Gerber supplies a crossover Ethernet cable with RJ45 connectors to use with direct connection to the computer. Modern hubs or switches which are auto-sensing work equally well with crossover or straight-through cables. When connecting to a network hub or switch that is *not* auto-sensing you will need to obtain a straight-through Category 5 (or better) Ethernet cable from a local computer store.



Tip: If your computer is not on a network you can create your own network with a separately purchased network switch and connect one or more devices to your computer. Your computer must have a 10/100 Mbps (or auto-switching) network interface board and you will need to obtain a 10/100 Mbps Ethernet switch with several ports. Use straight-through Category 5 Ethernet cables with RJ45 connectors (or crossover cables if the switch is auto-sensing): one cable to connect the GERBER EDGE FX and the switch and one to connect the computer and the switch. The Ethernet switch, network interface board, and additional cables are readily available at local computer stores.



To connect the GERBER EDGE FX to the computer on a network using a static address

- 1 If not already connected, connect the computer to your Ethernet hub or switch using the appropriate RJ45 cable. Modern hubs or switches which are auto-sensing work equally well with crossover or straight-through cables. Straight-through Category 5 Ethernet cables are readily available at local computer stores.
- 2 Connect the GERBER EDGE FX to your Ethernet hub or switch using the appropriate network cable. Install one end of the cable into the RJ45 receptacle on the back of the GERBER EDGE FX and the other end in the hub or switch.
- 3 Assign the correct IP Address and Network Mask to the GERBER EDGE FX via the printer's keypad. See "To set the network address of the GERBER EDGE FX from the printer keypad" on page 12. The default IP Address is 169.254.128.129 and the default Network Mask is 255.255.0.0. Contact your network administrator or IT professional for assistance in assigning the correct address.

- 4 If necessary, configure your computer's IP Address and Network Mask as described in “Setting the IP Address and Network Mask of your computer for network connection” on page 19.
- 5 Install the GERBER EDGE FX using GSPTray. See “Installing the GERBER EDGE FX in OMEGA software” on page 26.
- 6 If you are having trouble finding or communicating with the GERBER EDGE FX, check network connectivity of the computer and printer as described in “Checking network connections” on page 25.

Setting the IP Address and Network Mask of your computer for connection to a larger (or existing) network

For a computer on an *existing* network, the IP Address and Network Mask (and Gateway if required) should already be assigned and should not need to be changed. When setting up a new computer or a new network you may need to assign the IP Address and Network Mask of the computer as describe in the following procedures.



CAUTION: Use care when entering addresses for the equipment. Entering an incorrect address could damage the network. In a large existing network, obtain the correct address for the computer and the GERBER EDGE FX from the network administrator or IT professional.

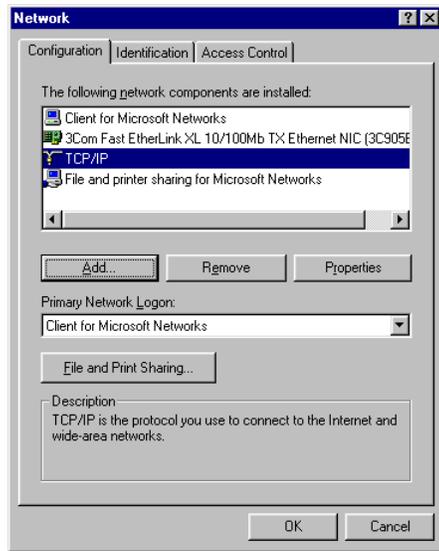
This procedure describes the process of setting the computer network address using the following address as an example:

- ◆ Computer IP address: 169.254.128.130
- ◆ Computer Network Mask: 255.255.000.000
- ◆ Computer Gateway: 000.000.000.000

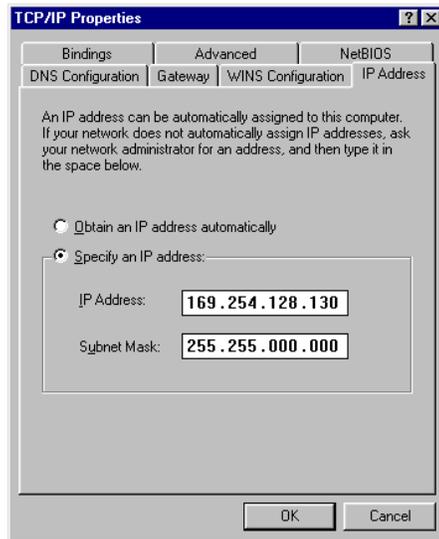


To set the IP Address and Network Mask for Windows 98

- 1 Click Start > Settings > Control Panel.
- 2 Double-click the Network icon.
- 3 Click the Configuration tab.
- 4 Click TCP/IP.



5 Click Properties to open the TCP/IP Properties dialog box.

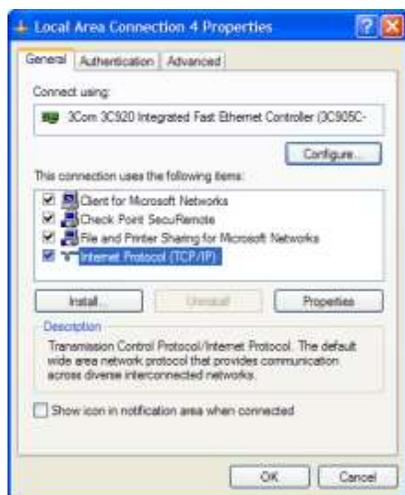


Note: Depending on your network and other equipment currently residing on the network, your computer's IP address may vary. If necessary, replace the network address in this procedure with the proper address obtained from your network administrator or IT professional.

- 6 On the IP Address tab, click Specify an IP Address:
- 7 Enter 169.254.128.130 for the IP Address.
- 8 Enter 255.255.000.000 for Network Mask.
- 9 Do not enter a Gateway address unless directed by your network administrator.
- 10 Click OK to close the TCP/IP Properties dialog box.
- 11 Click OK to close the Network dialog box.

➤ **To set the IP Address and Network Mask for Windows XP**

- 1 Click Start > Control Panel.
- 2 Click Network and Internet Connections.
- 3 Click the Network Connections icon.
- 4 Right click the Local Area Connections icon and choose Properties to open the Local Area Connections Properties dialog box.



- 5 Click Internet Protocol (TCP/IP) in the list.
- 6 Click Properties to open the Internet Protocol (TCP/IP) Properties dialog box.



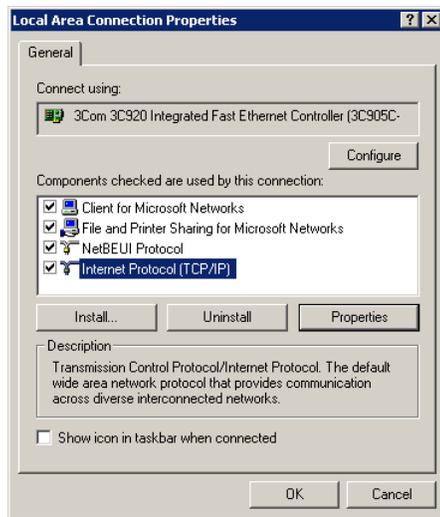
Note: Depending on your network and other equipment currently residing on the network, your computer's IP address may vary. If necessary, replace the network address in this procedure with the proper address obtained from your network administrator or IT professional.

- 7 Click Use the following IP address:
- 8 Enter 169.254.128.130 for IP Address.

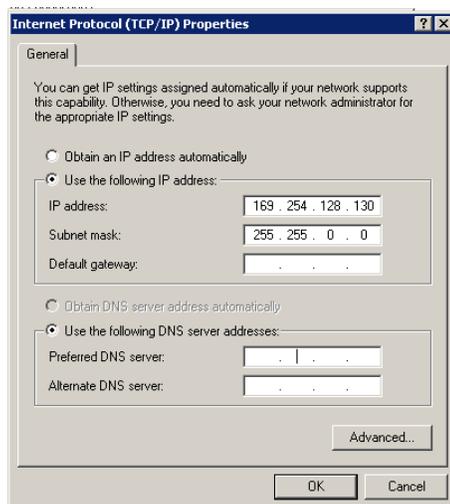
- 9 Enter 255.255.000.000 for Network Mask.
- 10 Do not enter a Gateway address unless directed by your network administrator. Leave the fields blank.
- 11 Click OK to save the settings and exit the Internet Protocol (TCP/IP) Properties dialog box.
- 12 Click OK to close the Local Area Connections Properties dialog box.

➔ **To set the IP Address and Network Mask for Windows 2000**

- 1 Click Start > Settings > Control Panel.
- 2 Double-click the Network and Dial up Connections icon.
- 3 Right-click the Local Area Connection icon and choose Properties from the context menu.



- 4 Click Internet Protocol (TCP/IP) in the list.
- 5 Click Properties to open the Internet Protocol (TCP/IP) Properties dialog box.





Note: Depending on your network and other equipment currently residing on the network, your computer's IP address may vary. If necessary, replace the network address in this procedure with the proper address obtained from your network administrator or IT professional.

- 6 Click Use the following IP address:
- 7 Enter 169.254.128.130 for IP Address.
- 8 Enter 255.255.000.000 for Network Mask.
- 9 Do not enter a Gateway address unless directed by your network administrator. Leave the fields blank.
- 10 Click OK to save the settings and exit the Internet Protocol (TCP/IP) Properties dialog box.
- 11 Click OK to exit the Local Area Connection Properties dialog box.

Using DHCP to assign network addresses

If your network is equipped with a DHCP (dynamic host configuration protocol) server you can have it automatically assign the IP Addresses to the computer and other devices on the network including the GERBER EDGE FX. When you turn on the equipment it will automatically load the proper TCP/IP settings provided by the server. The DHCP server automatically allocates an unused IP Address from the IP Address pool.

By default DHCP is disabled on the GERBER EDGE FX to allow you to assign a static network address. You can activate DHCP from the GERBER EDGE FX keypad, or from the web interface (if network connectivity has already been established). See “Modifying Network Settings” for instructions on using the web interface.

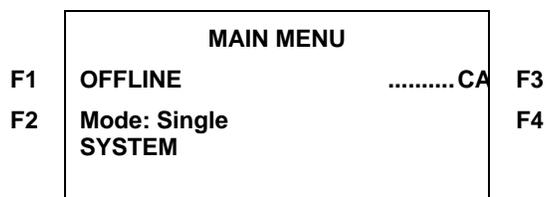


Note: If you KNOW that you are on a network that uses a DHCP server then proceed with this procedure. If you are unsure, contact your network administrator or IT professional.

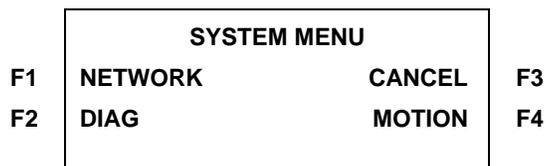


To activate DHCP from the GERBER EDGE FX keypad

- 1 From the MAIN MENU use F1 to toggle to OFFLINE.



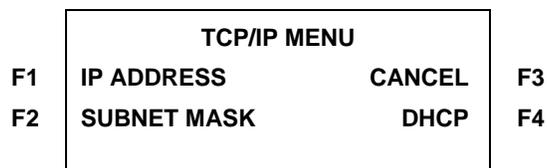
- 2 Press F4, SYSTEM to display the SYSYEM MENU.



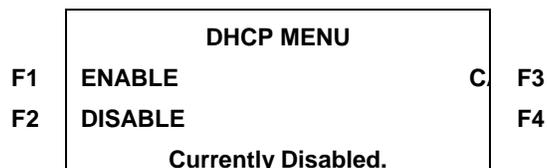
- 3 Press F1, NETWORK to display the NETWORK MENU.



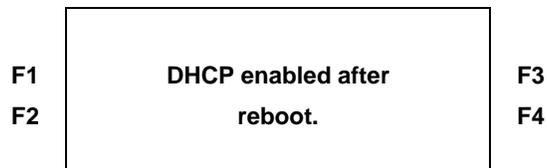
- 4 Press F1, TCP/IP to open the TCP/IP MENU.



- 5 Press F4, DHCP to open the DHCP menu.



- 6 Press F1, Enable to activate DHCP. The new setting will be in effect after cycling the power to the printer. The system displays the following message:



-  7 Cycle the printer power to change the DHCP setting.

Note: If you have enabled DHCP and the server successfully assigns an IP address, you will no longer be able to assign a static network address in the IP Address menu. If you return to the IP Address menu the --- symbol that designates the ability to change the address no longer appears. The lack of the --- symbol indicates that DHCP is enabled. You can disable DHCP if you later need to use a static IP address.

Checking network connections

You can check the network connections to be sure that the computer and GERBER EDGE FX can communicate.



Tip: When a live network cable is plugged into the computer, the RJ45 jack LEDs will light.

➔ To check network connections

- 1 In Windows 98 click Start > Programs > MS-DOS to open the MS-DOS window. In Windows XP click Start > Programs > Accessories > Command Prompt to open the Command Prompt window. The display shows **C:WINDOWS** where C is the letter of your hard drive.
- 2 Type **ping** followed by the IP address of the GERBER EDGE FX and press enter. Do not type any leading zeros that may be in the address. For example, to test a GERBER EDGE FX connected directly to a computer you would type:

ping 169.254.128.129

- 3 If the network connection is working you will see a reply from the GERBER EDGE FX's network address. If there is a problem with the network connection you will see the message: **Request timed out** or **Destination host unreachable**. Check that the network cables are properly attached and that you have entered the correct IP Address, Network Mask and Gateway.

```

Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\ThompsonC>ping 169.254.128.129

Pinging 169.254.128.129 with 32 bytes of data:

Reply from 169.254.128.129: bytes=32 time<1ms TTL=60

Ping statistics for 169.254.128.129:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\Documents and Settings\ThompsonC>
  
```

Network connection confirmed

```

Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\ThompsonC>ping 169.254.128.129

Pinging 169.254.128.129 with 32 bytes of data:

Destination host unreachable.
Destination host unreachable.
Destination host unreachable.
Destination host unreachable.

Ping statistics for 169.254.128.129:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\Documents and Settings\ThompsonC>
  
```

Network connection timed out

Installing Gerber OMEGA 2.1 or higher

You must have Gerber OMEGA 2.1 or higher software installed on the computer that communicates with the GERBER EDGE FX. Follow OMEGA installation instructions included with the software.

Installing the GERBER EDGE FX in OMEGA software

The GERBER EDGE FX printer is compatible with OMEGA 2.1 or higher. Install the GERBER EDGE FX using the Network tab of the Add or Delete Gerber Vinyl Printer dialog box in GSPTray.

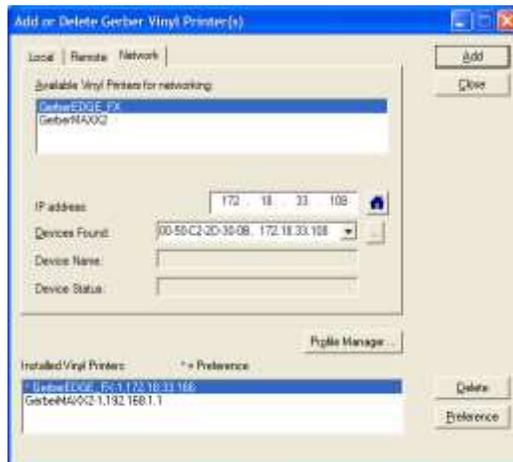


Note: If you are replacing an existing GERBER EDGE FX with a new one, you must first uninstall the original printer using the Delete button in the Add or Delete Gerber Vinyl Printer dialog box. Once the original printer is removed you can install the new GERBER EDGE FX using the following procedure.



To install the GERBER EDGE FX using GSPTray

- 1 Right-click the GSPTray icon to open the GSPTray menu.
- 2 Click Install Vinyl Printer to open the Add or Delete Gerber Vinyl Printer(s) dialog box.
- 3 Click the Network tab.



- 4 If the GERBER EDGE FX is visible on the network it is shown in the Devices Found drop down list. Choose the printer to install from the list.

OR

Click the Browse button to navigate to the printer location.

OR

Type the IP number of your GERBER EDGE FX in the IP Address box. Refer to your network administrator and “Connecting the GERBER EDGE FX to your computer” for information on obtaining this address.

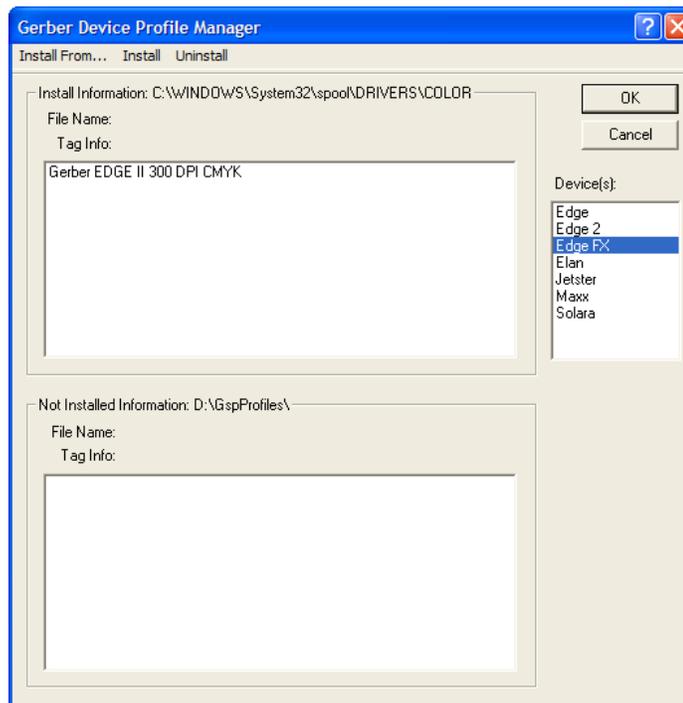


Tip: When the GERBER EDGE FX is located on the network it displays in the Devices Found box. The first 12-digit number is the printer's MAC address (00-30-2D-C2-50-00 in the above example), followed by the IP address (169.254.128.129 in the above example). The MAC address is unique to that printer and cannot be changed.

- 5 Click Add and the Add – Name Device dialog box displays. Accept the default name or enter a unique name for the GERBER EDGE FX.



- 6 Click OK to return to the Network tab. The name of the newly installed GERBER EDGE FX printer appears in the Installed Vinyl Printer(s) section of the Add or Delete Vinyl printer(s) dialog box.
- 7 To install or modify which profiles display in OMEGA, click the Profile Manager button to open the Gerber Device Profile Manager dialog box. Select the devices from the list to display the associated profiles (EDGE, EDGE 2, EDGE FX, Elan, Jetster, or MAXX, or Solara). Deselect the devices to hide the profiles that are unnecessary. You can also use the Profile Manager to uninstall and reinstall profiles. For complete help on this topic, press F1 while in the Device Manager dialog box.



- 8 Click OK to return to the Add or Delete Gerber Vinyl Printer(s) dialog box.
- 9 Click the Device Home page button if you wish to open the web interface of the GERBER EDGE FX. Once open, you may wish to make a shortcut on your desktop for easy access.

10 Click Close.

Chapter 3: Material and Foil Handling

Recommended material

EDGE READY™ materials are the only materials recommended for use with the GERBER EDGE FX thermal printer. EDGE READY materials are processed, prepared, and qualified for optimum image quality when printing with the GERBER EDGE series of printers. They are identified by an EDGE READY sticker inside the roll and on the outside of the box.

Storing the material

When not in use, material should be stored in the original plastic bag to protect it from dust and dirt. Save the original box for long-term storage of material rolls. Never store the material lying down or loaded in the GERBER EDGE FX, which can leave impressions on the surface of the material.

Cleaning the material



CAUTION: Never clean vinyl material with isopropyl alcohol, only clean vinyl with a lint-free cloth moistened with distilled water. The ends of the material rolls can be cleaned with a tack cloth.

The best way to keep the material clean is to always store it properly. If the material gets dirty (often the static charge on the material attracts dirt from the rug or floor), the printed job may show imperfections such as voids, hair lines, or small unprinted areas. Wipe the material with a clean, lint-free cloth moistened with distilled water. Allow the material to dry completely before printing as water or moisture can damage the print head. Before loading material into the GERBER EDGE FX, wipe the ends of the roll with a tack cloth to remove any dirt or dust.



Tip: An easy way to clean the material before printing is to slew as much as you are going to use through the GERBER EDGE FX and back again. The material squeegee will leave a line of accumulated dust and dirt on the material where the slewing stopped. Wipe it off with a dry, lint-free cloth.

Normalizing the material

For the best color-to-color and print-to-cut registration, “normalize” the material by unrolling the amount you are going to use onto a clean, dry surface approximately 15 minutes before printing. This is particularly important when using heavy material such as GerberMag™ and Gerber AutoMag™, or in hot, humid weather when using thin material such as Gerber 225 High Performance Film manufactured by 3M, 230 Translucent Film, 3M™ Controltac™ Film with Comply™ Adhesive 250Cv2, or other materials in the 2-3 mil range.

Handling the foil



GERBER EDGE FX Foil Cartridge Assembly



Foil Blister Package

GerberColor EDGE FX Foil is specially designed for use with the GERBER EDGE FX. The EDGE FX Foil Cartridge Assembly consists of an EDGE FX Foil Caddy, a removable Foil Insert with an RFID identifier label, and a Foil ID Card. The new Foil Cartridge design includes these unique features:

- ◆ Reloadable Foil Caddy.
- ◆ Foil lengths from 15 to 91 meters.
- ◆ Intelligent Foil Cartridge (RFID) identifies the type of foil and remaining length on the roll.
- ◆ Larger diameter foil core tube improves registration.

When the intelligent EDGE FX Foil Cartridges are loaded into the GERBER EDGE FX, it compares the foil ID and length of the roll to job requirements and notifies user of any discrepancies.

Storing and cleaning the foil

Foil Inserts and Cartridge Assemblies must be stored between 40° and 90° F (4° to 32° C), in a dry environment that is protected from direct sunlight.

Assembled Foil Cartridges should be stored in the original cardboard sleeves.

Foil is especially susceptible to static electricity which can attract dust and dirt. When the Foil Insert is not installed in the Foil Caddy store it in the original Blister Package. The Foil ID Card that is used in the Foil Caddy should also be returned to the slot in the Blister Package when stored for easy identification of the foil.

If you need to clean the foil or assembled cartridges to remove any contaminants, spray it lightly with a compressed air, ultra-filtered, non-residue dust remover, such as Chemtronics® Ultrajet®. If the contaminants can not be removed, slew the foil when it is loaded in the GERBER EDGE FX so that the area is rolled beyond the print head. See “Advancing (slewing) the foil” on page 47.

Assembling and disassembling the EDGE FX Foil Cartridge

The EDGE FX Foil Cartridge Assembly consists of an EDGE FX Foil Caddy, a removable Foil Insert with an RFID identifier label, and a Foil ID Card. Foil Inserts are easily installed or removed from the Foil Caddy as required. After installing Foil Inserts, retain the Foil Blister Packages to store your foil when it is not loaded in the Foil Caddy.



Foil Blister Package



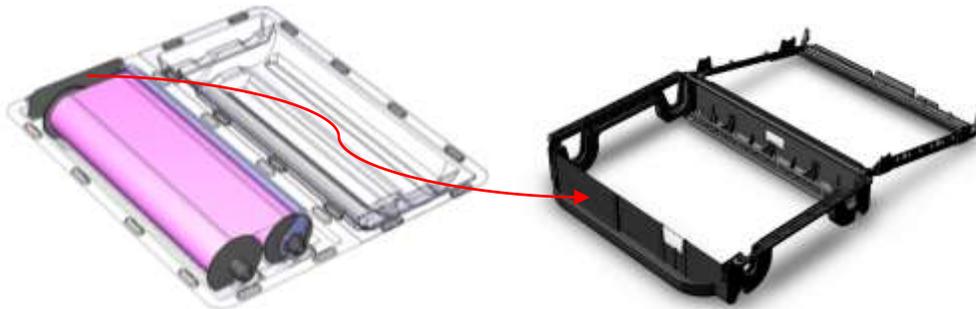
Foil Caddy

➤ To assemble the EDGE FX Foil Cartridge

- 1 Depress the latches on either side of the Foil Caddy and open the lid 180° until it lies flat on a table or counter.



- 2 Open the Foil Blister Package that contains the Foil Insert. Set the Blister Package on the table beside the Foil Caddy (lids facing away).



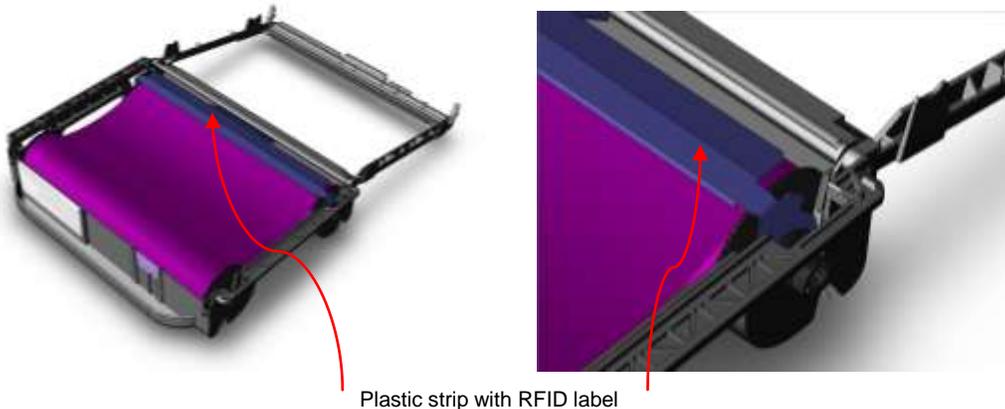
- 3 Remove the Foil ID Card from the Foil Blister Package and insert it in the slot on the front of the Foil Caddy so that the foil name is visible from the outside.

- 4 Position the plastic strip with the RFID identifier label so that it rests between the rolls of the Foil Insert.

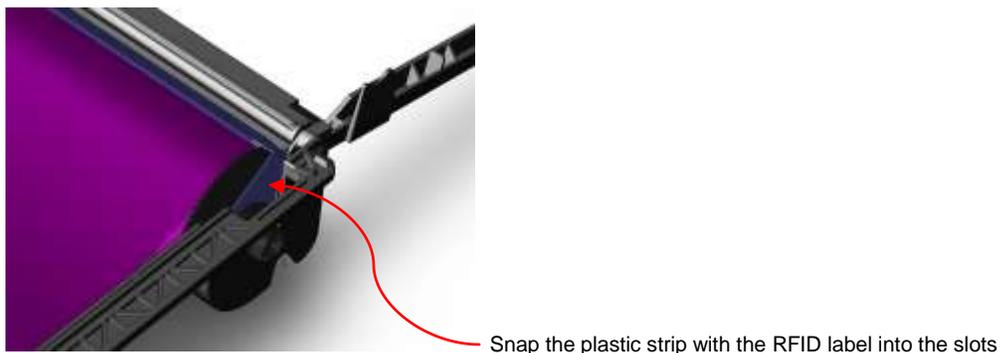


Note: Do not touch the surface of the foil. Oils from your hands can damage it. Always handle the foil by the end plugs only.

- 5 Holding the end plugs only, lift both of the Foil Insert rolls from the Foil Blister Package. Insert the front roll of foil into the slots at the front of the Foil Caddy. (The end caps have different diameters that match the size of the slots.)
- 6 Gently pull the rear roll toward the back of the Foil Caddy, making sure that the plastic strip with the RFID label remains on top of the roll.
- 7 Insert the rear roll into the rear slots in the Foil Caddy. Rotate the end caps to tighten the Foil Insert so that the foil is free of wrinkles and does not droop. Loose foil can get caught in the EDGE FX cartridge loader.



- 8 Rotate the plastic strip with the RFID label toward the rear of the Foil Caddy. The strip should snap into slots on both sides and position the RFID label so that it shows through the open window at the back of the Foil Caddy. The EDGE FX reads the RFID identifier label to determine the foil color and remaining usable length.



Note: If the label is not positioned correctly in the window, the EDGE FX will not be able to identify the foil and you may not be able to close the Foil Caddy.

- 9 Close the Foil Caddy ensuring that both front latches are secured and the Foil ID Card is visible. If you encounter resistance, the foil end caps may not be seated properly in the slots, or the RFID strip is obstructing the closure.

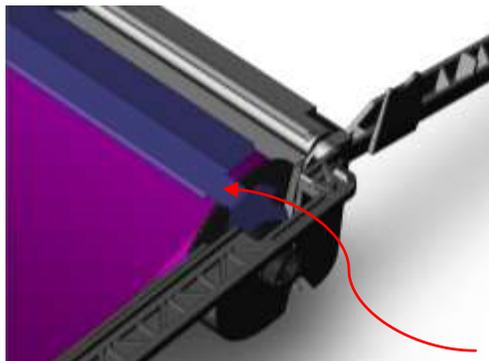


Foil ID Card

- 10 Save the Foil Blister Package to store the Foil Insert when not in use. When unloading the Foil Caddy, remember to return the Foil ID Card to the slot in the Blister Package so that it is available the next time you assemble a Foil Cartridge.

➤ To disassemble the EDGE FX Foil Cartridge

- 1 Depress the latches on either side of the Foil Caddy and open the lid 180° until it lies flat on a table or counter.
- 2 Open an empty Foil Blister Package and set the Blister Package on the table beside the Foil Caddy (lids facing away).
- 3 Remove the Foil ID Card from the Foil Caddy and insert it in the slot in the Foil Blister Package so that the foil name is visible from the outside.
- 4 Rotate the plastic strip with the RFID identifier label forward so that it rests between the rolls of the Foil Insert.

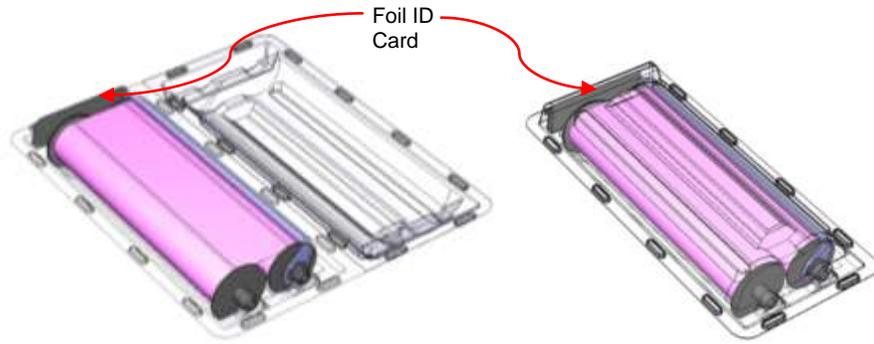


Rotate the plastic strip with the RFID label forward



Note: Do not touch the surface of the foil. Oils from your hands can damage it. Always handle the foil by the end plugs only.

- 5 Holding the end plugs only, lift the front roll of the Foil Insert from the Foil Caddy and roll it toward the rear roll. Make sure that the plastic strip with the RFID label remains on top of the rolls.
- 6 Holding the end plugs only, remove the rear roll from the rear slots in the Foil Caddy.
- 7 Transfer the Foil Insert into the empty Foil Blister Package and close the lid.



- 8 The Foil Blister Packages are designed to be stacked with the Foil ID Card visible for ease of storage and quick identification.

Chapter 4: Designing Jobs for the GERBER EDGE FX

There are many factors that contribute to a successful GERBER EDGE FX print job. The following guidelines will assist you in creating good output and reducing wasted material.



Tip: Consult the Gerber OMEGA Reference Manual or Help system for complete instructions on using Composer or GSPPlot.

Use the material and foil for which the job was designed

Each material/foil combination requires its own settings on the GERBER EDGE FX. If you print using a different material/foil combination than the one specified, the wrong settings are used and you may get poor results. If you need to use different material or foil, you must substitute them using GSPPlot or at the GERBER EDGE FX.

Substitute material or foils when a change is required

You may substitute a different material or foil in GSPPlot before outputting the job or at the GERBER EDGE FX. Substituting material or foil ensures that the correct settings will be used during printing. These substitutions are temporary and are not saved with the job.

Choose the appropriate color profile when printing an image

Choose the correct input profile for the imported image to ensure that you will get expected color results. If you know the input color profile that was used to create the image, choose this profile in the Color Management dialog box of OMEGA. If you do not know the input profile used, the OMEGA default Color Management settings usually provide good results.

Choose the correct print mode

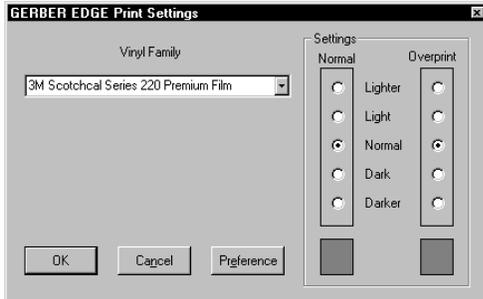
There are three print modes available for the GERBER EDGE FX:

- ◆ 300 x 300 DPI is the normal print mode and prints up to 1 inch (26mm) per second.
- ◆ 300 x 600 DPI is a high resolution print mode. Print speed is 1/2 inch (13mm) per second. Use this mode for fades, labels, detailed text/graphics, or whenever high resolution or a well-defined edge is required.
- ◆ 300 x 1200 DPI or HiRez mode is the highest-resolution print mode. Print speed is 1/4 inch (6.5 mm) per second. Use this mode for fades, labels, detailed text/graphics or whenever high resolution or a well-defined edge is required.

Choose the print mode in the Printer/Plotter Select dialog box of GSPPlot.

Adjust the Darkness settings

If you feel that a print is too light or too dark, you can change the darkness setting for the GERBER EDGE FX through GSPPlot. In GSPPlot, click Settings in the Print Options dialog box to open the GERBER EDGE Print Settings dialog box.



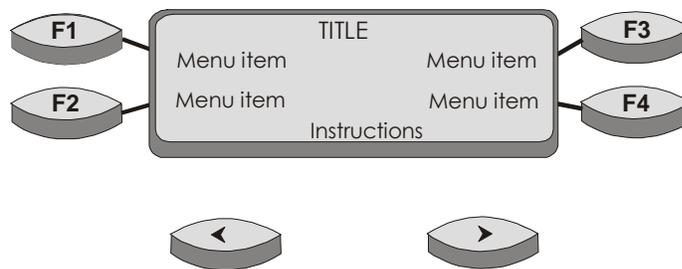
Choose the material family on which the job is printed, and then choose a Print Setting to make the print lighter or darker. If the problem persists, please call your distributor or the Gerber Service.

Chapter 5: Operating the GERBER EDGE FX

Understanding the control panel

The GERBER EDGE FX control panel provides functional controls and status displays. The control panel consists of:

- ◆ An LCD (liquid crystal display)
- ◆ four menu selection function keys (F1, F2, F3, F4)
- ◆ two slew keys



	<p>The LCD shows menus, instructions, system and job status, and messages. Each menu has a title (for example, MAIN MENU). To step through menus, press the function keys.</p>
	<p>The F1, F2, F3, and F4 function keys select other menus and change parameter values or settings. Their function is based on the text on the LCD associated with each function key.</p>
	<p>Slew keys move the material. Left arrow slews the material to the left and Right arrow slews the material to the right. When setting the network addresses, the slew keys change the value of the active network octet.</p>

Printing a job

The printing process involves these steps:

- ◆ Send a job to the printer from OMEGA 2.1 or higher.
- ◆ Homing the printer. (optional)
- ◆ Press ONLINE to start the printing process.
- ◆ Choose the operating Mode: Single or Continuous.
- ◆ Load the requested material (material can also be loaded prior to sending the job).
- ◆ Insert the first foil as requested.
- ◆ Insert subsequent foils as requested.

Upon power up the printer may pause while it heats the print head to the appropriate temperature. The heat-up time varies depending on the environmental temperature.



Tip: Gerber recommends cleaning the print head, platen, foil squeegee, and bail arm squeegees before beginning each job

Homing the printer

You can home the printer to consistently start jobs at the same position and make it easier to load materials. Homing the printer rotates the sprockets until the three closely spaced sprocket pins are in the up position. The Home command is located in the MOTION MENU which is accessible from the SYSTEM MENU, MATERIAL MENU, or FOIL MENU. This procedure uses the SYSTEM MENU to access the Home command

To home the printer

- 1 From the MAIN MENU press F4, SYSTEM to open the SYSTEM MENU.

SYSTEM MENU			
F1	NETWORK	CANCEL	F3
F2	DIAG	MOTION	F4

- 2 Press F4, MOTION to open the MOTION MENU.

MOTION MENU			
F1	FOIL	CANCEL	F3
F2		HOME	F4

- 3 Press F4, HOME to rotate the three closely spaced sprocket pins to the up position. After homing the display returns to the MAIN MENU.

Choosing the Mode for printing jobs

You can choose the Mode for printing jobs on the GERBER EDGE FX control panel. Depending on the Mode chosen the printer behaves differently at the conclusion of a job. The Modes are:

- ◆ **Single** prints a job and then stops to allow the operator to change material. When Single is chosen, the printer returns to the Offline status after printing. If other jobs are sent to the printer, the operator must press Online again to receive the job.
- ◆ **Cont.** (Continuous) allows the GERBER EDGE FX to print one job after another without pausing between jobs. At the end of the job the printer remains Online and immediately prints the next job that is sent to the printer. When Continuous mode is chosen, the printer does not instruct you to load the material after the initial job, if subsequent jobs are to be printed on the same material. In addition, in Continuous mode you do not have to press OK to continue printing after inserting the correct foil in the printer. The GERBER EDGE FX confirms the foil type and length and automatically begins printing that color.



Tip: When printing and cutting multiple jobs on the same material, print all the jobs first and then cut them. This technique saves you time and material.



Tip: When printing multiple color jobs:

- Wipe the material between colors with a dry lint-free cloth.
- Clean the print head between colors if the job is longer than 10 feet (3 m).

➔ To print a job

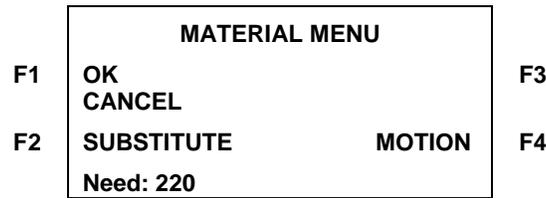
- 1 Send the job from the computer with OMEGA 2.1 or higher to the GERBER EDGE FX.
- 2 Choose the Mode (Single or Cont.) by pressing F2 to toggle between the choices.

MAIN MENU			
F1	ONLINE	CANCEL	F3
F2	Mode: Single	SYSTEM	F4

- 3 If the GERBER EDGE FX is OFFLINE the display changes to PAUSED and the job name scrolls along the bottom message line.

MAIN MENU			
F1	PAUSED		F3
	CANCEL		
F2	Mode: Single		F4
	Job name scrolling...		

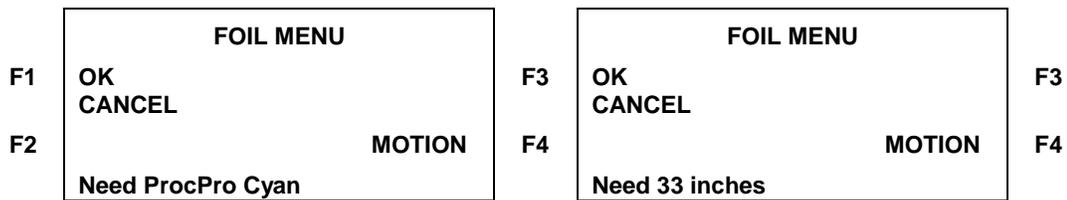
- Press F1, to toggle PAUSED to ONLINE. The MATERIAL MENU displays indicating the requested material.



- Load the material and press F1, OK. (If you need to substitute the material, see “Substituting a different material” on page 43.)
- The FOIL MENU displays indicating which foil to load. Load the foil cartridge and press F1, OK if the current mode is Single. When in Continuous mode the printer confirms that the foil and length are correct and automatically begins printing without pressing F1, OK. (If you need to substitute the foil, see “Substituting a different foil” on page 47.)



Note: If you have the Foil Display/Speed setting set to Name only, the foil length required will not display. For details, see “Changing the Foil Display/Speed” on page 58.



- After printing the first color, the GERBER EDGE FX rewinds the material and prompts for the next foil. Change the foil cartridge and press F1, OK if in Single mode.
- After printing all of the colors in the job, the printer behaves differently depending on the chosen Mode. If the current mode is Single the printer returns to its Offline status. If the current Mode is Continuous the printer remains Online and immediately begins the next job that is sent to the printer as long as the material is the same as the previous job.
- When all jobs are complete, slew the material out of the printer toward the roll using the Right slew key.

Loading material into the GERBER EDGE FX

You can load material in the GERBER EDGE FX before or after the job is sent. This procedure demonstrates loading the material after the job is sent and assumes that you have the correct material available.



Tip: For ease of loading the material, you can “Home” the printer. There are two menus that have the HOME command. The following procedure uses the MATERIAL MENU. You can also access HOME from the MAIN MENU. Press F2, SYSTEM > MOTION > HOME to rotate the three closely-spaced sprocket pins to the up position.

Alternately you can use the control panel slew keys to position the sprockets before loading the material.

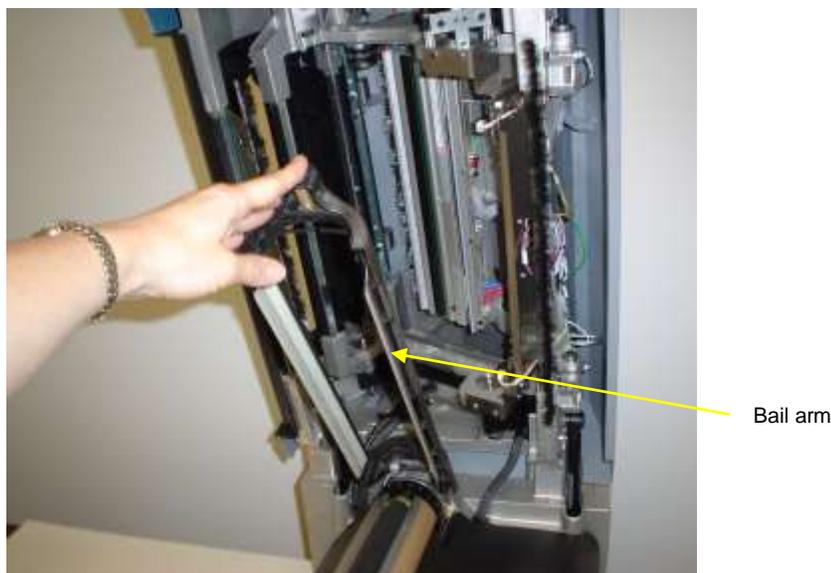
➔ To load a material into the GERBER EDGE FX

- 1 When a job is received at the GERBER EDGE FX the MATERIAL MENU displays. The name of the requested material displays on bottom line of the display.

MATERIAL MENU			
F1	OK		F3
	CANCEL		
F2	SUBSTITUTE	MOTION	F4
	Need: 220		

💡 Tip: If you do not have the correct material, you may substitute the material now. See “Substituting the material at the GERBER EDGE FX” on page 37.

- 2 Push up the cover latch and open the GERBER EDGE FX cover.
- 3 Push in the bail arm latch and raise the bail arm to the up position.



- 4 Press F4, MOTION to open the MOTION MENU.

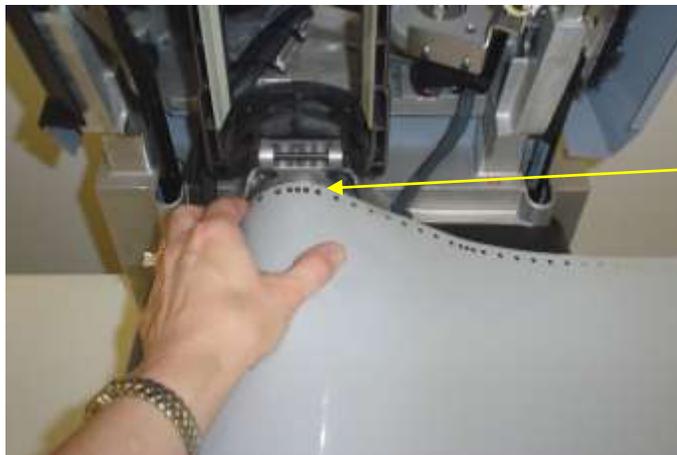
MOTION MENU			
F1	FOIL	CANCEL	F3
F2		HOME	F4

- 5 Press F4, HOME to position the three closely-spaced sprocket pins in the up position. When the printer has homed, press F3, CANCEL to return to the MATERIAL MENU.
- 6 Load the roll of material onto the table roll holder so that the printing side is facing up when entering the GERBER EDGE FX. The roll holder should be located on the right side of the GERBER EDGE FX parallel with the unit.



Roll holder

- 7 Position the material so that the three closely-spaced holes align with the closely-spaced sprocket pins. Load the material onto the moveable rear sprocket first and then onto the front stationary sprocket.



Rear sprocket

- 8 Lower the bail arm and latch it.



- 9 Carefully close the GERBER EDGE FX cover. Do not to slam the cover shut.



CAUTION: Slamming the cover shut can cause damage to the print head. Always close the cover carefully.

- 10 On the MATERIAL MENU press F1, OK to confirm that the correct material is loaded.

MATERIAL MENU			
F1	OK CANCEL		F3
F2	SUBSTITUTE	MOTION	F4
Need: 220			

- 11 The FOIL MENU requests the first foil needed for the job. See “Loading a foil cartridge into the GERBER EDGE FX” on page 45 for additional instructions.

Substituting a different material

It is very important to use the material that has been designated for that job. Each material has specific print settings assigned that ensure good foil adhesion. **Failure to use the correct material will result in incorrect print settings for the material actually being used.**

You can choose a different material when designing the job in OMEGA, before outputting the job in GSPPlot, or at the GERBER EDGE FX before printing begins. See the *OMEGA Reference Manual* or Help for instructions on substituting materials in OMEGA or GSPPlot.

➔ To substitute a material at the GERBER EDGE FX

- 1 After receiving a job the GERBER EDGE FX displays MATERIAL MENU. The material designated for the job displays on the bottom line of the menu.

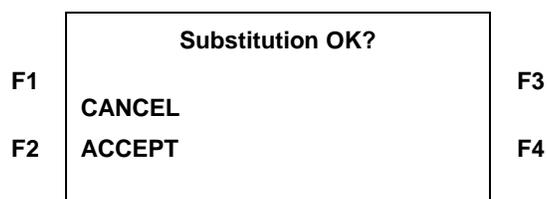
MATERIAL MENU			
F1	OK CANCEL		F3
F2	SUBSTITUTE	MOTION	F4
Need: 225			

- 2 Press F2, SUBSTITUTE to choose a different material and display the MATERIAL SUBST. MENU.

MATERIAL SUBST. MENU			
F1	OK CANCEL		F3
F2	PREV	NEXT	F4
Subst: [1] 220			

- 3 Press the F2, PREV or F4, NEXT (or the left and right slew keys) to scroll through the list of available material. The substrates are numbered as shown in brackets [1].

- 4 When the desired material displays, press F2, OK to confirm the material selection. A confirmation message displays.



- 5 Press F2, ACCEPT to accept the substitution and F3, CANCEL to cancel the material substitution and return to the FOIL MENU.

Loading a foil cartridge into the GERBER EDGE FX

GERBER EDGE FX foil cartridges carry RFID tags that identify the type of foil and amount remaining on the roll. Once the foil cartridge is loaded, the GERBER EDGE FX compares the job requirements with the loaded foil cartridge. If the printer is in Continuous mode and the correct foil and length is loaded, the printer continues automatically. If the printer is in Single mode you must press F1, OK to continue printing. If the foil is different than requested by the job or the length is inadequate, the GERBER EDGE FX notifies you via the LCD and allows you to make substitutions.

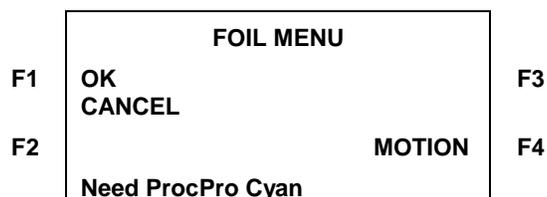


Tip: Assemble all of the foil cartridges required for the job so that they are ready when you need them.



To load an assembled foil cartridge into the GERBER EDGE FX

- 1 After loading the material into the GERBER EDGE FX the foil loading prompt displays. The first foil needed for the job and the required length alternate on the bottom line of the display.



Note: If you have the Foil Display/Speed setting set to Name only, the length required will not display. For details, see "Changing the Foil Display/Speed" on page 58.

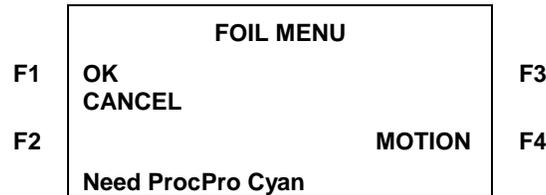
- 2 Remove the assembled foil cartridge from its protective sleeve and slide it into the GERBER EDGE FX with the dull side of the foil facing down, as shown in the following photo.) Push the cartridge all the way into the printer. The GERBER EDGE FX beeps one time when the foil cartridge is loaded correctly.



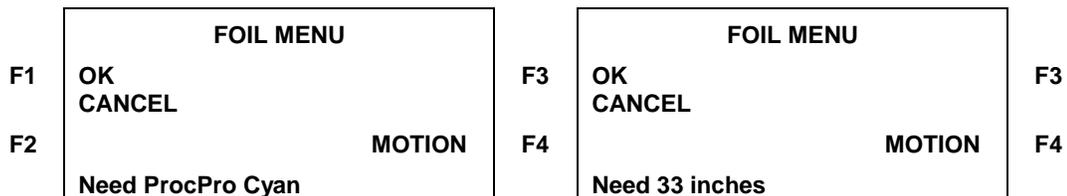
- The GERBER EDGE FX reads the RFID tag and compares it to the job requirements. If the incorrect foil is loaded the GERBER EDGE FX alternates the message between **Need foil requested and length needed** and **Have foil installed and length remaining on roll**.



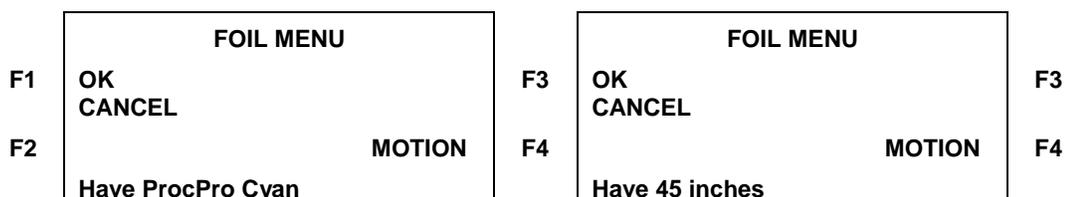
Note: If you have the Foil Display/Speed setting set to Name only, the foil length required will not display. For details, see "Changing the Foil Display/Speed" on page 58.



- Remove the loaded cartridge and load the correct foil. If the printer is in Continuous mode, it automatically begins printing. If in Single mode, press F1, OK to confirm that the correct foil is loaded and to start printing. If you wish to substitute a different foil see "Substituting a different foil" on page 47.
- If the length of foil remaining on the roll is inadequate for the job, the GERBER EDGE FX displays **Need foil requested and length needed** and **Have foil installed and length remaining on roll**. The foil name and the length alternate on the bottom line of the display.



- Remove the loaded cartridge and load a cartridge with an adequate amount of foil.
- When a correct foil cartridge with an adequate amount of foil is loaded the GERBER EDGE FX displays:



- 8 If the printer is in Continuous mode it automatically begins printing. When in Single mode, press F1, OK to confirm that the correct foil is loaded and to start printing.
- 9 After the GERBER EDGE FX prints the first color it rewinds the material and prompts for the next foil required for the job. Insert the next foil cartridge and press F1, OK to continue printing if in Single mode. (Printing continues automatically when in Continuous mode.) The GERBER EDGE FX cycles through all of the foils required for the job and displays the MAIN MENU upon completion.



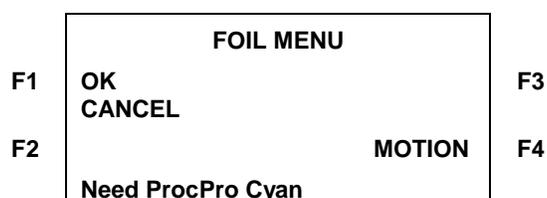
Note: Depending on the Mode chosen (Continuous or Single) the GERBER EDGE FX either remains Online and immediately continues with the next job (Cont.), or returns to the Offline status (Single).

Substituting a different foil

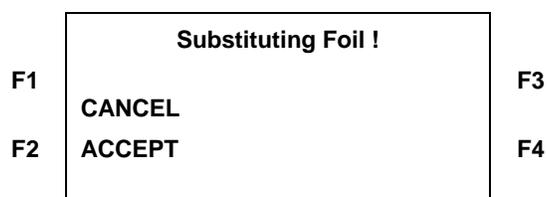
If you do not have the foil originally designated in a job, you may substitute a different foil at the time of printing.

➔ To substitute a different foil

- 1 During printing the FOIL MENU appears to request the next foil required for printing.



- 2 If you do not have the requested foil, insert the foil you wish to use and press F1, OK. The Substitution confirmation prompt displays.



- 3 Press F2, ACCEPT to confirm the selection and continue printing with the same foil.

Advancing (slewing) the foil

If the foil is dirty or has scratches you can advance (slew) the foil from the supply roll to the take-up roll to expose an unused area of the foil. The FOIL command is located in the MOTION MENU which is accessible from the SYSTEM MENU, MATERIAL MENU, and FOIL MENU. This procedure uses the SYSTEM MENU to access the MOTION MENU.

➔ To advance (slew) the foil

- 1 From the MAIN MENU press F4, SYSTEM to open the SYSTEM MENU.

SYSTEM MENU			
F1	NETWORK	CANCEL	F3
F2	DIAG	MOTION	F4

- 2 Press F4, MOTION to open the MOTION MENU.

MOTION MENU			
F1	FOIL	CANCEL	F3
F2		HOME	F4

- 3 Press and hold F1, FOIL to advance the foil from the supply roll to the take-up roll to expose a new section of the foil.
- 4 Press F3, CANCEL to return to the MAIN MENU.

Pausing and restarting a job

Pressing F1, ONLINE while the job is printing pauses the job. When the job is paused you can slew the material. Press F1, ONLINE again when a job is paused to restart the job at the same location at which printing stopped.



Tip: To ensure correct registration when printing is paused and resumed, the GERBER EDGE FX is set to overlap the foil at the position where the job was interrupted. The default amount of overlap is 15 pixels. You may adjust the overlap to between 5 and 25 pixels. See “Changing the overlap setting” on page 56.

Canceling a job

From the MAIN MENU, press F3, CANCEL on the control panel to stop the job and clear it from the printer.

MAIN MENU			
F1	ONLINE	CANCEL	F3
F2	Mode: Single	SYSYEM	F4

The GERBER EDGE FX displays a confirmation menu. Press F1, YES to cancel the job, or F3, NO to return to the previous menu.

CANCEL JOB?			
F1	YES	NO	F3
F2			F4

Running out of foil during a job

The GERBER EDGE FX intelligent foil cartridges record the type of foil and the length remaining on the roll on the RFID tag. When you insert the foil cartridge in the GERBER EDGE FX, it automatically compares the information on the foil RFID tag with the job requirements. The printer displays a warning message if the foil roll is too short. If you choose to continue printing with a roll that has an inadequate amount of foil you may run out of foil during printing. If you run out of foil (or if the foil breaks) the printer pauses and displays the **Check Foil !** message. Replace the foil cartridge and press F1, RETRY. The printing resumes at the point at which it paused. See “Pausing and restarting a job” for information on overlap settings.



Note: If you run out of foil during a job, print quality may degrade. Gerber recommends using a roll of foil with an adequate amount to complete the job.

Chapter 6: Configuring the GERBER EDGE FX via the Web Interface

The GERBER EDGE FX has a web interface that allows you access to the printer via a web browser on any computer connected to it via a network or through direct connection. The web interface address is the same as the GERBER EDGE FX IP address, for example:
[http:// 169.254.128.129](http://169.254.128.129).



Note: When the GERBER EDGE FX ships from the factory, the default IP address is 169.254.128.129. The IP address may change during installation (and is different for each printer when there are multiple printers at one location). To access the web interface, use the current IP address assigned to that printer.

Through the web interface you can perform the following functions without using the GERBER EDGE FX control panel:

- ◆ Check job status
- ◆ Change system settings such as overlap, language, or printer name
- ◆ Enter or change network addresses of the printer
- ◆ Perform system diagnostics
- ◆ Perform a firmware update
- ◆ View Gerber contact information

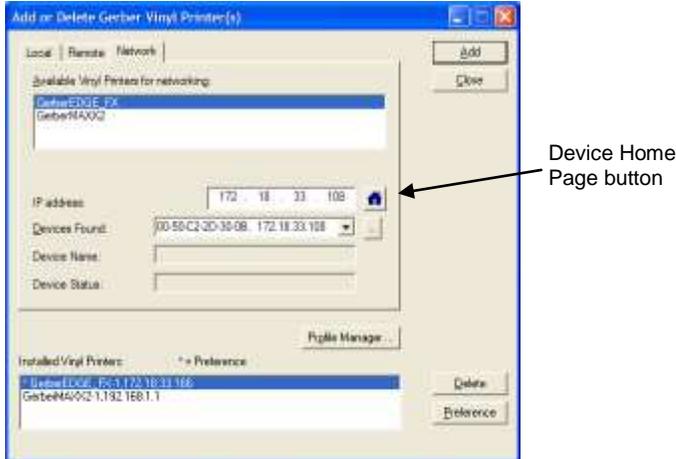


Tip: You may find it helpful to create a shortcut to the GERBER EDGE FX web interface on your computer's desktop for quick access.

Opening the GERBER EDGE FX web interface

The GERBER EDGE FX is a network device. You can remotely check the status or change the settings of the GERBER EDGE FX from any computer connected to it via the network.

Open the GERBER EDGE FX web interface by entering the printer's IP address in the Location or Address line of your web browser (for example: <http://169.254.128.129>). Alternately you can open the web interface from the Network tab of the Add or Delete Gerber Vinyl Printers dialog box of OMEGA 2.1. Click the Device Home Page button to open the web interface.



The Welcome to GERBER EDGE FX screen displays the current system status and provides links to other services including:

- ◆ System Settings
- ◆ Network Settings
- ◆ Diagnostics
- ◆ Update (firmware)
- ◆ Contacts





Note: You must have established network communication ability before viewing the EDGE FX web interface. See “Connecting the GERBER EDGE FX to your computer” on page 7.

Changing System Settings

On the GERBER EDGE FX web interface System Settings page you can modify the:

- ◆ Printer Name
- ◆ System Log Level
- ◆ Overlap amount (in pixels)
- ◆ Display Scroll Speed
- ◆ Foil/Display Speed
- ◆ Material Selection (U.S. or International)
- ◆ Numeric units (English and Metric)
- ◆ Language used on the display



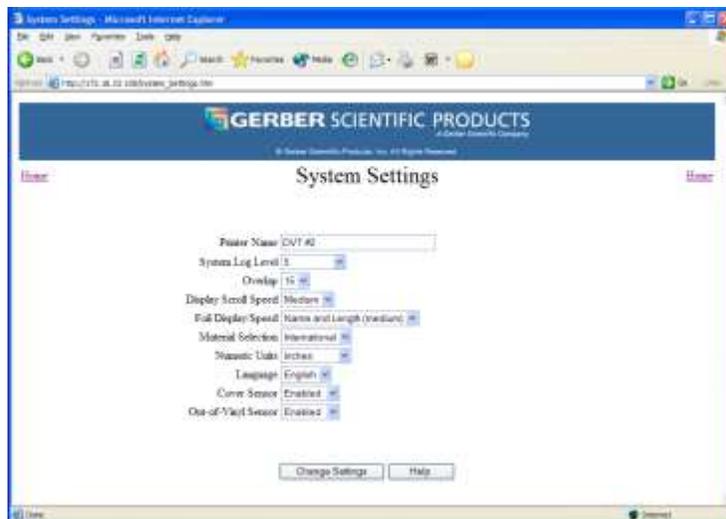
Note: You cannot modify the System Settings while a job is printing.

Changing the printer name

You can give the GERBER EDGE FX an easily identifiable name displayed in the web interface on the System Settings page. The default name is Gerber Thermal Printer.

➔ To name the GERBER EDGE FX printer

- 1 Open the GERBER EDGE FX web interface by entering the printer's IP address in the Location or Address line of your web browser (for example: <http://169.254.128.129>). The Welcome to GERBER EDGE FX screen displays.
- 2 Click the System Settings link to open the System Settings page.



- 3 Enter a new name up to 35 characters in length.
- 4 Click Change Settings to apply the new name to the GERBER EDGE FX.

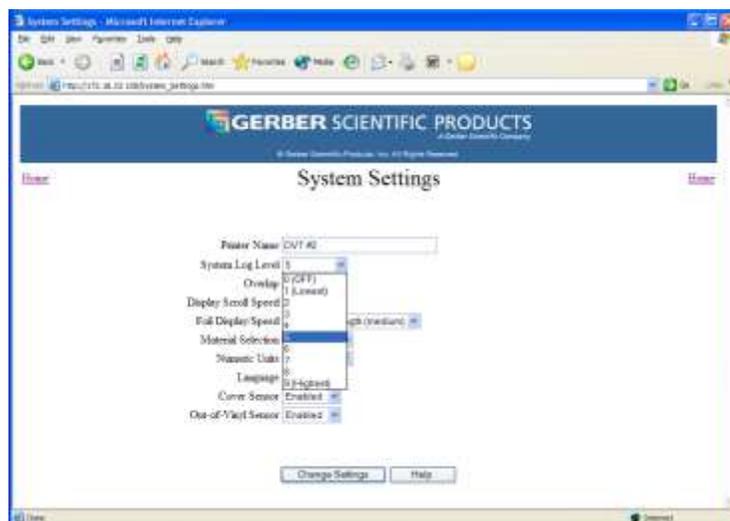
Changing the System Log Level

The System Log is an application running on the network that records messages sent from the GERBER EDGE FX. You can view the System Log messages through the Diagnostics web page. See “Viewing the System Log” on page 87 for details on viewing the log.

You can modify the System Log Level from 1 (lowest) to 9 (highest) using the web interface. The lowest setting records only the major errors, and the highest records all messages sent from the GERBER EDGE FX. Alternately, you can turn off the System Log completely. The default System Log Level setting is 1 (lowest) and should be adequate for normal operation. Higher settings may be requested by Gerber Technical Support for diagnostic purposes.

➤ To change the System Log Level

- 1 Open the GERBER EDGE FX web interface by entering the printer's IP address in the Location or Address line of your web browser (for example: <http://169.254.128.129>). The Welcome to GERBER EDGE FX screen displays.
- 2 Click the System Settings link to open the System Settings page.



- 3 Choose a System Log Level between 1 (lowest) to 9 (highest) from the drop down list.
- 4 Choose 0 (OFF) if you wish to turn off the System Log.
- 5 Click Change Settings to apply the new System Log Level setting to the GERBER EDGE FX.

Modifying Overlap settings

The Overlap setting determines how many pixels (between 5 and 25) the GERBER EDGE FX overlaps when it resumes printing after a job is paused. The Overlap setting is changed using the System Settings page of the web interface. The default overlap setting is 15 pixels.

The Overlap setting is machine-dependent so it is important to determine the proper setting before attempting to use it when printing. Too much overlap may not produce desirable appearance and too little overlap will cause a white line to run through the job. The following technique helps you to determine the best setting for your GERBER EDGE FX.

➔ To determine the proper Overlap setting

- 1 Send a ten inch, one color job to the GERBER EDGE FX.
- 2 Allow the printer to print approximately five inches and then press F1, ONLINE to pause the job.
- 3 Press F1, ONLINE again to restart the job uses the default overlap of 15 pixels.
- 4 Examine the job; if the overlap setting produces acceptable results, you are finished. If not, continue with this procedure to adjust the overlap.
- 5 Open the GERBER EDGE FX web interface by entering the printer's IP address in the Location or Address line of your web browser (for example: <http://169.254.128.129>). The Welcome to GERBER EDGE FX screen displays.
- 6 Click the System Settings link to open to System Settings page.



- 7 Enter an Overlap setting between 5 and 25 pixels. Enter a higher setting if you have white lines in the print. Enter a lower setting if the overlap is too obvious.
- 8 Click Change Settings to apply the new Overlap value to the GERBER EDGE FX.
- 9 Repeat steps 1 through 4 and continue to adjust the Overlap setting if required.



Note: If you have changed the Overlap value and then restore factory default settings, the Overlap value will return to 15 pixels. You will need to reset the Overlap value.

Changing the display scroll speed

You can alter the rate that messages scroll on the GERBER EDGE FX LCD. The default setting is Slow.

➔ To change the display scroll speed

- 1 Open the GERBER EDGE FX web interface by entering the printer's IP address in the Location or Address line of your web browser (for example: <http://169.254.128.129>). The Welcome to GERBER EDGE FX screen displays.
- 2 Click the System Settings link to open the System Settings page.



- 3 Choose a Display Scroll Speed from the drop-down list. The choices are Slow, Medium and Fast.
- 4 Click Change Settings to apply the new display scroll speed.

Changing the Foil Display/Speed

You can alter the rate that foil messages alternate, and whether to display the foil name only, or the foil name and the length on the GERBER EDGE FX LCD. The available settings are:

- ◆ Name Only (Slow)
- ◆ Name Only (Medium)
- ◆ Name Only (Fast)
- ◆ Name and Length (Slow)
- ◆ Name and Length (Medium) *default setting*
- ◆ Name and Length (Fast)

➔ To change the foil display/speed

- 1 Open the GERBER EDGE FX web interface by entering the printer's IP address in the Location or Address line of your web browser (for example: <http://169.254.128.129>). The Welcome to GERBER EDGE FX screen displays.
- 2 Click the System Settings link to open the System Settings page.



- 3 Choose a Foil Display/Speed setting from the drop-down list. (The default is Name and Length (Medium).)
- 4 Click Change Settings to apply the new Foil Display Speed.

Changing the material selection list

The available material for the GERBER EDGE FX varies for domestic and international markets. You can select either U.S. or International materials to reduce the number of materials displayed in the substitution list making it easier to search the list.

➤ To change the material selection list

- 1 Open the GERBER EDGE FX web interface by entering the printer's IP address in the Location or Address line of your web browser (for example: <http://169.254.128.129>). The Welcome to GERBER EDGE FX screen displays.
- 2 Click the System Settings link to open the System Settings page.



- 3 Choose U.S. or International from the Material Selection drop down menu.
- 4 Click Change Settings to apply the new material selection list.

Choosing the numeric units

The units used on the GERBER EDGE FX and on the web pages can be chosen via the System Settings page of the web interface. The choices are: Inches, Feet, Yards, Centimeters, and Meters. The default numeric unit is Inches.

➔ To choose the numeric unit

- 1 Open the GERBER EDGE FX web interface by entering the printer's IP address in the Location or Address line of your web browser (for example: <http://169.254.128.129>). The Welcome to GERBER EDGE FX screen displays.
- 2 Click the System Settings link to open the System Settings page.



- 3 Choose a numeric unit from the drop down menu.
- 4 Click Change Settings to apply the new units to the GERBER EDGE FX.

Choosing a language

The language displayed on the GERBER EDGE FX (and on all web pages except Diagnostics) can be changed via the System Setting page of the web interface. The default language is English.



Note: Currently English is the only language available.



To change the display language

- 1 Open the GERBER EDGE FX web interface by entering the printer's IP address in the Location or Address line of your web browser (for example: <http://169.254.128.129>). The Welcome to GERBER EDGE FX screen displays.
- 2 Click the System Settings link to open the System Settings page.



- 3 Choose a language from the drop down menu.
- 4 Click Change Settings to apply the new language to the GERBER EDGE FX and to the web interface pages.

Enabling or disabling sensors

The Out-of-Vinyl and Cover sensors can be enabled or disabled from the System Settings page of the web interface.

➤ To enable or disable Out-of-Vinyl or Cover Sensors

- 1 Open the GERBER EDGE FX web interface by entering the printer's IP address in the Location or Address line of your web browser (for example: <http://169.254.128.129>). The Welcome to GERBER EDGE FX screen displays.
- 2 Click the System Settings link to open the System Settings page.



- 3 Choose enable or disable from the Cover Sensor or Out-of-Vinyl drop down list.
- 4 Click Change Settings to apply the new sensors information.

Modifying Network Settings

The network settings of the GERBER EDGE FX allow you to send jobs to the printer or communicate with the printer using the web interface. You can enter or modify the network settings of the GERBER EDGE FX at the control panel or when installing the printer using GSPTray. To change the network settings via the Network Settings web page you must have already established a network connection with the GERBER EDGE FX. See “Connecting the GERBER EDGE FX to your computer” on page 7.

By default the GERBER EDGE FX is set to use Static Settings. If you have a DHCP server on your network, you can set the printer to use DHCP instead of static addresses. See “Using DHCP” for details on setting up your GERBER EDGE FX using this option.

When setting up static addresses for the GERBER EDGE FX on a network, you must obtain the IP Address, Network (Subnet) Mask, and Gateway from the network administrator or IT department. A Gateway address is only used if you are communicating in a multiple local area network (LAN) environment. A single network environment should leave the Gateway address as set at the factory. **Do not attempt to assign your own addresses.**

The DNS Server is the IP address of the DNS (domain name server) if one is available. The default DNS Server IP address is 0.0.0.0.

The SysLog Address is the IP address of the network syslog server. If this is not 0.0.0.0, all messages logged in the printer's syslog buffer are also sent to the network syslog server at this IP address.

The MAC (media access control) Address uniquely identifies the printer and is not editable.



CAUTION: Use care when entering addresses for the GERBER EDGE FX. Entering incorrect addresses could damage the network.



CAUTION: The device ID number (last octet) of the GERBER EDGE FX IP Address should not be the same address as any other computer or system on the network or it will cause problems for the network.



To modify the network address settings

- 1 Open the GERBER EDGE FX web interface by entering the printer's IP address in the Location or Address line of your web browser (for example: <http://169.254.128.129>). The Welcome to GERBER EDGE FX screen displays.
- 2 Click the Network Settings link to open the Network Settings page.



- 3 Enter the new addresses.
- 4 Click Change Settings to apply the new values to the GERBER EDGE FX. The New Network Settings web page displays.



Using DHCP

The Use DHCP button activates the settings provided by a DHCP (dynamic host configuration protocol) server rather than the static settings. DHCP can also be set at the GERBER EDGE FX control panel. See “Using DHCP to assign network address” on page 23.

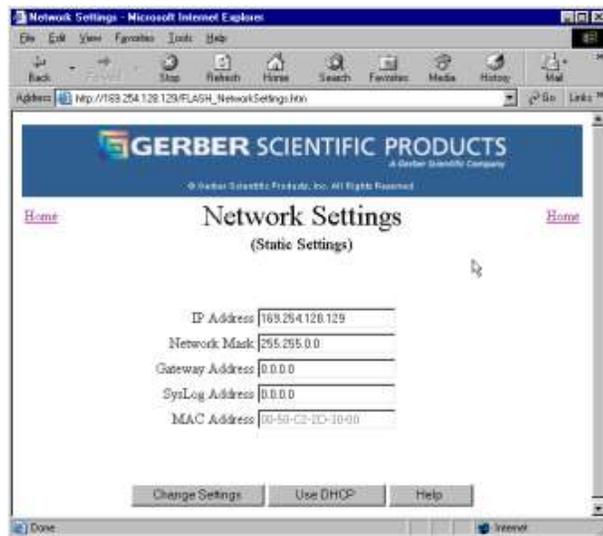
If your network is equipped with a DHCP server you can have it automatically assign the IP Addresses to the computer and other devices on the network including the GERBER EDGE FX. Each time you turn on a device it will automatically load the proper TCP/IP settings provided by the server. The DHCP server automatically allocates an unused IP Address from the IP

Address pool. The address may vary from session to session. Your network administrator must define the starting and ending addresses of the pool.

You must cycle the power to the GERBER EDGE in order for the DHCP settings to be in effect.

➤ To activate DHCP

- 1 Open the GERBER EDGE FX web interface by entering the printer's IP address in the Location or Address line of your web browser (for example: [http:// 169.254.128.129](http://169.254.128.129)). The Welcome to GERBER EDGE FX screen displays.
- 2 Click the Network Settings link to open the Network Settings page. By default the GERBER EDGE FX uses Static Settings.



- 3 Click the Use DHCP button. You will be warned to cycle power to the printer before DHCP is enabled.
- 4 After the power is cycled the Network Settings page now displays the DHCP settings for reference only. They are not user editable.



Updating the GERBER EDGE FX firmware

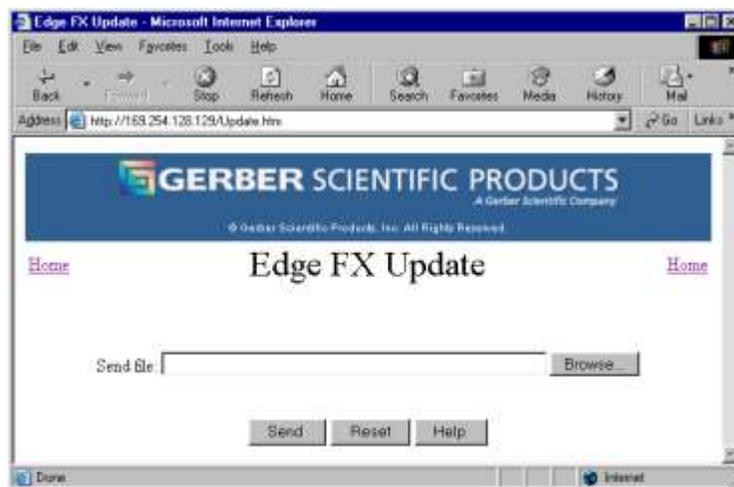
You can update the GERBER EDGE FX firmware to a new revision level using the web interface. When an update file is sent to the GERBER EDGE FX, (using the Send button) it programs new firmware onto the printed circuit board of the printer. The GERBER EDGE FX must be set to OFFLINE in order to update the firmware.

The Reset button clears the Send File box to allow you to enter or choose a different file name.

The update file may be located on a CD or downloaded from the GSP website. If you download the update file, make note of its saved location so that you can find it using the Browse button during the update procedure.

➔ To update the GERBER EDGE FX firmware

- 1 Make sure the GERBER EDGE FX is OFFLINE. Press F1 from the printer's MAIN MENU to toggle between ONLINE and OFFLINE.
- 2 Open the GERBER EDGE FX web interface by entering the printer's IP address in the Location or Address line of your web browser (for example: <http://169.254.128.129>). The Welcome to GERBER EDGE FX screen displays.
- 3 Click the Update link to open the GERBER EDGE FX Update page.



- 4 Type the update file name (with a GSP extension) and location in the Send file box or click Browse to find the file on a CD or your computer.
- 5 Click the Send button to send the update file to the GERBER EDGE FX over the network. Depending on the size of the file and the network connection this may take up to a minute or more.
- 6 When the firmware update is complete, a status page displays the results.
- 7 Click the Reset button to clear the Send file box so that you can enter or chose another file name.

Viewing Gerber contact information

The GERBER EDGE FX web interface contains important Gerber contact information including Customer Service and Technical Support. If you are connected to the Internet you can click the hyperlinks to contact Gerber or visit the Gerber web site (www.gspinc.com).

➤ To view Gerber contact information

- 1 Open the GERBER EDGE FX web interface by entering the printer's IP address in the Location or Address line of your web browser (for example: <http://169.254.128.129>). The Welcome to GERBER EDGE FX screen displays.
- 2 Click the Contacts link to open the GSP® Contact Us page.



- 3 Click the website link to open the GSP website, or click any of the e-mail links to send an e-mail. You must be connected to the Internet to visit the web site or send e-mail.
- 4 Click Close to return to the Welcome to GERBER EDGE FX page.

Chapter 7: Troubleshooting

Responding to control panel messages

The following table lists typical control panel messages that may appear while using the GERBER EDGE FX and provides an explanation of each and a suggested response if one is required.

Message	Description
READY	The GERBER EDGE FX is online and ready to print.
OFFLINE	The GERBER EDGE FX is offline. Job data will not be received. However, the unit is visible on the network. The printer must also be Offline to use the slew keys or update the firmware.
PAUSED	A job was printing and the GERBER EDGE FX is paused. Press Online to resume printing. The printer can also be placed in this state when running a diagnostic test.
WARMING UP *****	The thermal print head (TPH) is warming up prior to printing a job. The job can begin when the print head reaches the proper operating temperature.
PROCESSING DATA	The GERBER EDGE FX is processing job data.
PRINTING	The GERBER EDGE FX is printing a job.
Homing...	Either the X-axis or Z-axis is locating the home position.
Cancel Job?	Press F1, YES to cancel the current job.
Check Material!	The material isn't loaded. Load material before continuing with job. The job is resumed when the F1, RETRY key is pressed.
Check Foil!	The end of the foil has been reached (or the foil has broken). Insert another foil cassette. If the foil is broken, then it can be repaired with tape before re-inserting the cassette. The job is resumed when the F1, RETRY key is pressed.
Check Cassette !	The cassette is not loaded. Load a foil cassette before continuing with job. The job is resumed when the F1, RETRY key is pressed.

Message	Description
Close Cover !	The cover is open. Close the cover and press F1, RETRY to resume the job.
Over Temperature !	The thermal print head (TPH) thermistor reading exceeds the set thermal shutdown value. Wait for the TPH to cool down. Press F1, RETRY to clear the error and try again.
Incorrect Foil !	The inserted foil doesn't match the foil in the job. This message is displayed only for a legacy job. Pressing F1, OK allows the incorrect foil to be used. Pressing F3, CANCEL returns to the FOIL MENU. Either insert a cassette with the correct foil or continue with the incorrect foil. Since this is a legacy job, no substitution is allowed.
Using Short Foil !	The length of the foil in the cassette is shorter than what is required for the job. Insert a cassette with an adequate amount of foil, or press F1, OK to proceed with inadequate foil amount.
Not Gerber Foil !	The foil is not manufactured by Gerber and the foil characteristics can not be determined. Insert a Gerber foil.
Foil Mismatch !	The foil inserted does not have settings for the material in the job (i.e., it is not a supported material/ foil combination). Press F1, RETRY to return to the FOIL MENU.
Use GerberGauge !	The length of the foil is unknown. Usually due to a power failure that prevented the cassette RFID from being updated properly. Replace with a working cassette, or press F1, OK to use the foil.
Unknown Material !	Material is unknown. Job can not be resumed. Check the material specified in the job. Press F3, CANCEL to abort the job.
Unknown Foil !	Foil is unknown. Job can not be resumed. Check the foil specified in the job. Press F3, CANCEL to abort the job.
Warmup Error !	The TPH did not reach the set warm up temperature during the predetermined time period. Press F1, RETRY to clear the error and try again.
Reset to factory defaults ! Press any key...	The Left and Right Slew keys were pressed during system power-up causing the system settings to be restored to factory default values. Press any key to continue.
System Update Mode	The firmware is being updated. This mode can be canceled.
System update in progress, please stand by	The firmware is being updated. This process can not be canceled.
Network Error !	There is a problem with the GERBER EDGE FX network hardware. Check network cable connections and/or consult your network

	administrator.
Message	Description
Can't find DHCP Server. Using static network settings. Press any key...	There is a network problem communicating with the DHCP server. The GERBER EDGE FX returns to the last static network addresses. If static network addresses have never been changed, the default network settings are used.

Correcting typical problems

Occasionally a job may not print or cut perfectly. Here are some suggestions for correcting typical problems.

The cut lines of the job do not match the print job.

Check that proper cut registration was established when the knife was aligned with the registration mark. When properly aligned, the knife cuts precisely on the cross hairs of the registration mark before cutting the job. If the cross hairs are not perfectly cut, then the job was not aligned precisely and the job was not perfectly cut either.

Material was not normalized before printing and cutting. Use only material that has been normalized to the environment prior to processing.

A line through the length of a job along the X-axis.

First, clean the print head and foils. See "Cleaning the GERBER EDGE FX" on page 92 and "Storing and cleaning the foil" on page 30. If that does not work, change the print settings to Dark or Darker in the GSPPlot program. In GSPPlot, click Settings in the Print Options dialog box to open the GERBER EDGE Print Settings dialog box. Choose the material family on which the job is printed, and then choose a Dark or Darker setting. If the problem persists, please call your distributor or the Gerber Service.

Imperfections in the printing, such as voids, hair lines, or small unprinted areas.

Check to see if the material is damaged. If the material is not damaged, wipe it with a clean, lint-free cloth moistened with distilled water and let air dry. Clean the exposed foil with clean, dry compressed air. (See "Storing and cleaning the foil" on page 30.) If imperfections are present in the entire job, the print head may be dirty. See "Cleaning the GERBER EDGE FX" on page 92.)

Lines in the job that are not on the X axis or Y axis (wrinkling).

Usually the appearance of lines in the job is accompanied by a pulling or crinkling sound while printing. The foil is wrinkled. Slew the foil to smooth out any wrinkles. If this is unsuccessful, remove the cartridge, reload the foil cartridge assembly, and try again.

Center the job on vinyl in the Layout dialog box of GSPPlot prior to sending the job to the GERBER EDGE FX.

Opacity problems, such as a light color not covering a dark material.

Print a white undercoat on the material before printing the other colors in the job. Use the GerberColor Backing and Finish dialog box of GSPPlot to apply the undercoat. To open the dialog box, click the Backing/Finish button from the Print Options dialog box of GSPPlot.

The top or bottom of a job is consistently darker than the rest.

There may be a print head pressure problem. Please call your distributor or Gerber Service.

Light spots in a repeating pattern in the job.

Clean the platen. See “Cleaning the platen” on page 94. If the problem persists, please call your distributor or Gerber Service.

Poor print registration.

Do not butt colors in a job. Use traps, bleeds, chokes, and spreads to improve registration as you design the job in OMEGA. Unroll the material 15 minutes before printing to allow it to normalize to the environment.

Stretched sprocket holes in the material.

Use only EDGE READY™ materials for the GERBER EDGE FX. Unroll the material before printing to allow it to normalize. Check that the movable rear sprocket moves freely. If the problem persists, please call your distributor or Gerber Service.

Printed images lift from the material or material lifts from the liner.

A job printed on material can be sensitive to transfer tape pressure. Wait at least 15 minutes before applying transfer tape to the printed material. Use only Gerber Standard Tack Application Tape.



Tip: Do not stack printed material with printed sides together. Stack the printed side contacting the liner side of another piece of material or use a paper interleaf between the layers.

Reestablishing factory default settings

Factory default settings are restored by pressing and holding the F3 and right slew key during power-up. Following is a chart of the factory default settings.

Setting	Default Value	Range	Description
Ethernet Address (MAC Address)	xx-xx-xx-xx-xx-xx	valid Ethernet address	Unique 6 byte address assigned by IEEE. This address is a factory default cannot be changed. Also known as the MAC Address (media access control).
DHCP Server	0.0.0.0	valid IP address	IP address of DHCP (dynamic host configuration protocol) server. The default setting is 0.0.0.0 for none.
IP Address	169.254.128.129	valid IP address	IP address of GERBER EDGE FX. Enter a unique IP address for network to which the GERBER EDGE FX will be physically connected.
Network Mask	255.255.0.0	valid network mask	Network mask for your network.
Gateway	0.0.0.0	valid IP address	IP address of network gateway (if one exists). The default setting is 0.0.0.0.
DNS Server	0.0.0.0	valid IP address	IP address for DNS server (if one is available). The default setting is 0.0.0.0 for none.
Overlap	15 lines	5 - 25	Specifies the number of lines to re-print when printing resumes after a PAUSE or an ERROR (e.g. foil error).
SysLog Address	xxx.xxx.xxx.xxx	valid IP address	Address of the network syslog server. If not 0.0.0.0, all messages logged in the printer's syslog buffer are also sent to the network syslog server at this IP address.
Language	English	English	Front panel messages are displayed using the selected language. All web pages except for diagnostic pages are displayed in selected language.
Cover Sensors	Enabled	enabled disabled	Cover sensors can be disabled to allow the printer to continue printing with a non-functioning sensor.
Out-of-vinyl	Enabled	enabled disabled	Out-of-Vinyl Sensors can be disabled to allow the printer to continue printing with a

Sensor			non-functioning sensor.
Substrate Prompts??	enabled	enabled disabled	If enabled then GERBER EDGE FX waits for user to select material before continuing with printing.
Foil Prompts??	enabled	enabled disabled	If enabled then GERBER EDGE FX waits for user to select foil before continuing with printing.

Diagnosing printer problems

The DIAGNOSTIC MENU of the GERBER EDGE FX provides a small test print to verify that the printer is capable of printing and a network test to determine the network throughput. From the DIAGNOSTIC MENU you can also view the firmware version information which you may need if speaking with Gerber technical representatives.

More diagnostic tools are available in the GERBER EDGE FX web interface. See “Using the Diagnostic web page” on page 78.

Printing the internal test print

The internal test print is a simple print (shown in the following illustration) which uses Spot Black foil (GSC-012) on white Gerber 220 High Performace Film manufactured by 3M.



➔ To print the internal test print

- 1 From the MAIN MENU press F4, SYSTEM to open the SYSTEM MENU.

SYSTEM MENU			
F1	NETWORK	CANCEL	F3
F2	DIAG	MOTION	F4

- 2 Press F2, DIAG to open the DIAGNOSTIC MENU.

DIAGNOSTIC MENU			
F1	TEST PRINT	CANCEL	F3
F2	NETWORK	VERSION	F4

- 3 Press F1, TEST PRINT to open the MAIN MENU with the TEST PRINT job paused.

MAIN MENU		
F1	PAUSED CANCEL	F3
F2	Mode: Single SYSTEM Job: TEST PRINT	F4

- 4 Press F1 to print the job. The display changes to:

MATERIAL MENU		
F1	OK CANCEL	F3
F2	SUBSTITUTE HOME Need Gerber 220 High Performance	F4

- 5 Load the requested material (Gerber 220 High Performance Film) and press F1, OK. The display changes to the following screen with the foil and length required alternating on the bottom line:

<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3" style="text-align: center;">FOIL MENU</th> </tr> </thead> <tbody> <tr> <td style="text-align: right; vertical-align: top;">F1</td> <td style="text-align: center;">OK CANCEL</td> <td style="text-align: left; vertical-align: top;">F3</td> </tr> <tr> <td style="text-align: right; vertical-align: top;">F2</td> <td style="text-align: center;">MOTION</td> <td style="text-align: left; vertical-align: top;">F4</td> </tr> <tr> <td colspan="3" style="text-align: center;">Need Black</td> </tr> </tbody> </table>	FOIL MENU			F1	OK CANCEL	F3	F2	MOTION	F4	Need Black			<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3" style="text-align: center;">FOIL MENU</th> </tr> </thead> <tbody> <tr> <td style="text-align: right; vertical-align: top;">F3</td> <td style="text-align: center;">OK CANCEL</td> <td style="text-align: left; vertical-align: top;">F3</td> </tr> <tr> <td style="text-align: right; vertical-align: top;">F4</td> <td style="text-align: center;">MOTION</td> <td style="text-align: left; vertical-align: top;">F4</td> </tr> <tr> <td colspan="3" style="text-align: center;">Need 0.984 inches</td> </tr> </tbody> </table>	FOIL MENU			F3	OK CANCEL	F3	F4	MOTION	F4	Need 0.984 inches		
FOIL MENU																									
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Need Black																									
FOIL MENU																									
F3	OK CANCEL	F3																							
F4	MOTION	F4																							
Need 0.984 inches																									



Note: If you have the Foil Display/Speed setting set to Name only, the length required will not display. For details see "Changing the Foil Display/Speed" on page 58.

- 6 Load the Black (GSC-012) foil and press F1, OK. The job prints.

Testing network throughput

The Network test can be used in conjunction with a job sent for OMEGA to determine the network performance. The job data is discarded while the Network test is performed. Network throughput is displayed in terms of quality which correlates to kbytes per second as shown in the following table:

Excellent	Network throughput is > = 600 kbytes/sec
Good	Network throughput is > = 300 kbytes/sec and < 600 kbytes/sec
Poor	Network throughput is > = 0 kbytes/sec and < 300 kbytes/sec
None	Network throughput is > = 0 kbytes/sec

➔ To test network throughput

- 1 From the MAIN MENU press F4, SYSTEM to open the SYSTEM MENU.

SYSTEM MENU			
F1	NETWORK	CANCEL	F3
F2	DIAG	MOTION	F4

- 2 Press F2, DIAG to open the DIAGNOSTIC MENU.

DIAGNOSTIC MENU			
F1	TEST PRINT	CANCEL	F3
F2	NETWORK	VERSION	F4

- 3 Press F2, NETWORK to open the NETWORK TEST MENU.

NETWORK TEST MENU			
F1		CANCEL	F3
F2	Quality: Excellent		F4
	Rate: 600 kbytes/sec		

- 4 Send a job from OMEGA and the NETWORK TEST MENU monitors the throughput rate and displays the results. The job data is discarded.

Viewing GERBER EDGE FX version menus

When troubleshooting the GERBER EDGE FX, it may be helpful to determine the versions of firmware components. The easiest way to view the versions is through the DIAGNOSTICS page of the web interface. See “Using the Diagnostics page” on page 78. You can also access version information from the printer's control panel. The EDGE FX VERSION menus one through nine display version information about the following firmware components:

- ◆ Release (1 of 9)
- ◆ Application (2 of 9)
- ◆ BootStrap (3 of 9)
- ◆ BootLoader (4 of 9)
- ◆ Language (5 of 9)
- ◆ FPGA (6 of 9)
- ◆ History (7 of 9)
- ◆ Fire File (8 of 9)
- ◆ RFID (9 of 9)

➔ To view the GERBER EDGE FX versions

- 1 From the MAIN MENU press F4, SYSTEM to open the SYSTEM MENU.

SYSTEM MENU			
F1	NETWORK	CANCEL	F3
F2	DIAG	MOTION	F4

- 2 Press F2, DIAG to open the DIAGNOSTIC MENU.

DIAGNOSTIC MENU			
F1	TEST PRINT	CANCEL	F3
F2	NETWORK	VERSION	F4

- 3 Press F4, VERSION to open the EDGE FX VERSION menu. Version menu 1 of 9 displays.

EDGE FX VERSION			
F1	Release:	CANCEL	F3
F2	XX.XX	NEXT	F4
1 of 9			

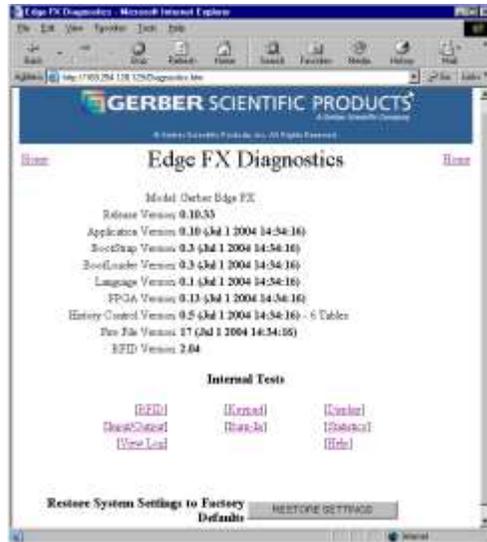
- 4 Press F4, NEXT to display the version menus 2 of 9. Continue to press F4, NEXT to step through all of the menus.

Using the EDGE FX Diagnostics web page

The GERBER EDGE FX Diagnostics page displays detailed information about the printer including the model and the versions of firmware components of the GERBER EDGE FX.

➔ To open the GERBER EDGE FX Diagnostics page

- 1 Open the GERBER EDGE FX web interface by entering the printer's IP address in the Location or Address line of your web browser (for example: <http://169.254.128.129>). The Welcome to GERBER EDGE FX screen displays.
- 2 Click the Diagnostics link to open the GERBER EDGE FX Diagnostics page.



Internal Tests

The Diagnostics web page also provides the following internal tests that are used in conjunction with GSP technical support to verify printer operation:

- ◆ RFID (Radio Frequency Identification)
- ◆ Input/Output
- ◆ View Log
- ◆ Keypad
- ◆ Burn-In
- ◆ Display
- ◆ Statistics

Running the RFID test

The RFID test checks the operation of the RFID cassette tag system. You must have a foil cassette installed in the printer to perform the tests. There are two tests available:

- ◆ Read Only Test which tests that the printer can read the data on the RFID cassette tag.
- ◆ Read/Write Test which tests the ability to read and update the data on the RFID cassette tag.

After running an RFID test, the RFID Test Results page displays and is updated every five seconds until you click the Stop Test button in the RFID Test Results window.



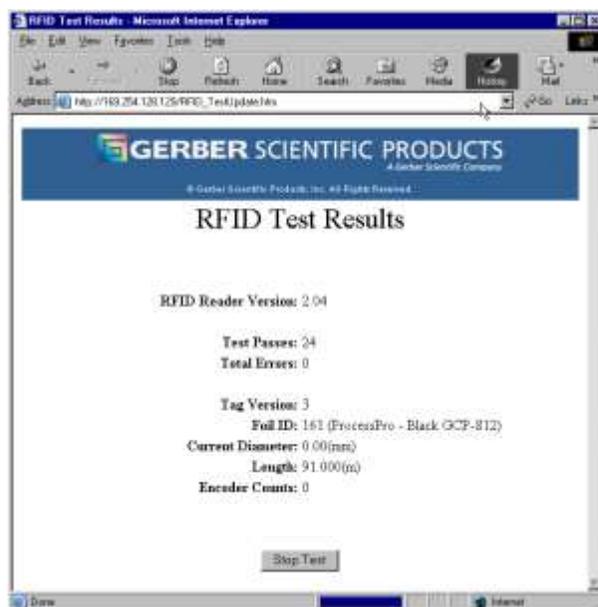
CAUTION: When performing the Read/Write test, an attempt is made to return the RFID tag data to its pre-test state. If this is unsuccessful the RFID tag may no longer be useable after the test. If the RFID tag becomes unusable the printer displays “Not Gerber Foil” when the foil cartridge is inserted. You can still use the foil, but the foil name and remaining length is no longer tracked.

➔ **To run the RFID test**

- 1 Open the GERBER EDGE FX web interface by double clicking the icon on the desk top or the printer's IP address in the Location or Address line of your web browser (for example: <http://169.254.128.129>). The Welcome to GERBER EDGE FX screen displays.
- 2 Click the Diagnostics link to open the GERBER EDGE FX Diagnostics page.
- 3 Click the RFID link to open the RFID Tag Diagnostics page.



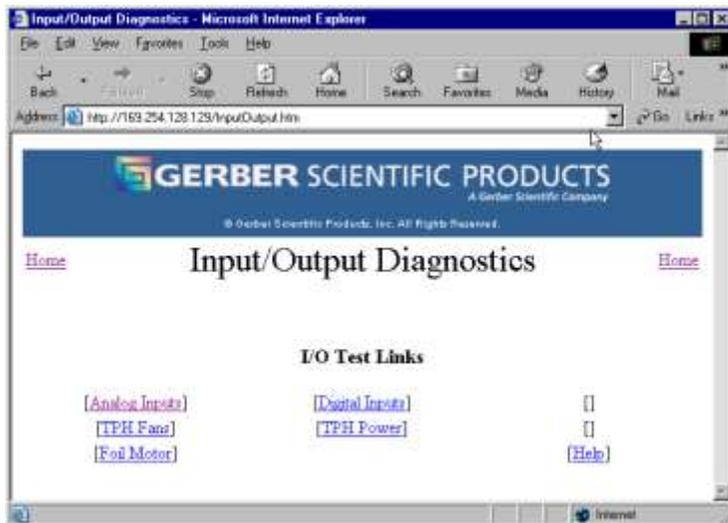
- 4 Click either the Read Only Test or the Read/Write Test to perform that test. The RFID Test Results page displays and updates every five seconds.



- 5 Click Stop Test to end the test and return to the RFID Tag Diagnostics window. Click Done Testing to return to the Home page.

Running the Input/Output tests

The Input/Output Diagnostics web page provides internal tests or status pages that are used in conjunction with GSP technical support to verify printer operation. The results of the Input/Output Diagnostics can only be viewed, they can not be altered.



The Input/Output Diagnostic page includes I/O Test Links that check the operation of the following components:

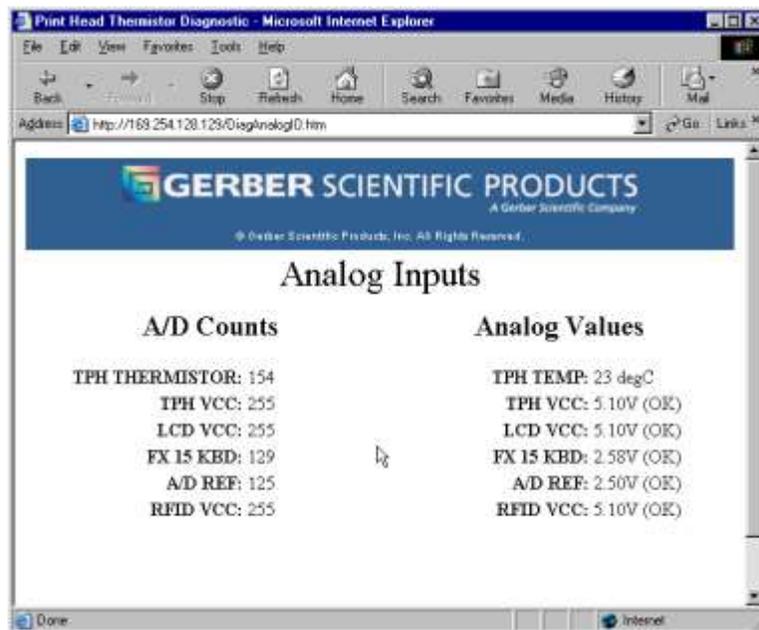
- ◆ **Analog Inputs:** displays the state and voltage of the analog inputs which can be used to troubleshoot the printer in conjunction with GSP Technical Support.
- ◆ **TPH Fans:** test turns the fans on and off and checks for expected voltage.
- ◆ **Foil Motor:** test turns the foil motor on and off and checks for expected voltage.
- ◆ **Digital Inputs:** displays the state of the sensors, drivers, and cables which can be used to troubleshoot the printer in conjunction with GSP Technical Support.
- ◆ **TPH Power:** test turns the TPH power supply on and off.



Note: The GERBER EDGE FX must be OFFLINE to run diagnostic tests.

➔ **To run the Analog Input test**

- 1 Open the GERBER EDGE FX web interface by entering the printer's IP address in the Location or Address line of your web browser (for example: <http://169.254.128.129>). The Welcome to GERBER EDGE FX screen displays.
- 2 Click the Diagnostics link to open the GERBER EDGE FX Diagnostics page.
- 3 Click the Input/Output link to open the Input/Output Diagnostics page.
- 4 Click Analog Inputs to diagnose and display the A/D Counts and Analog Values for the analog inputs. These values can not be altered. The displayed information is used as a reference when troubleshooting a printer in conjunction with GSP Technical Support.



- 5 Click Done to return to the EDGE FX Diagnostics page.

➔ **To run the TPH Fans test**

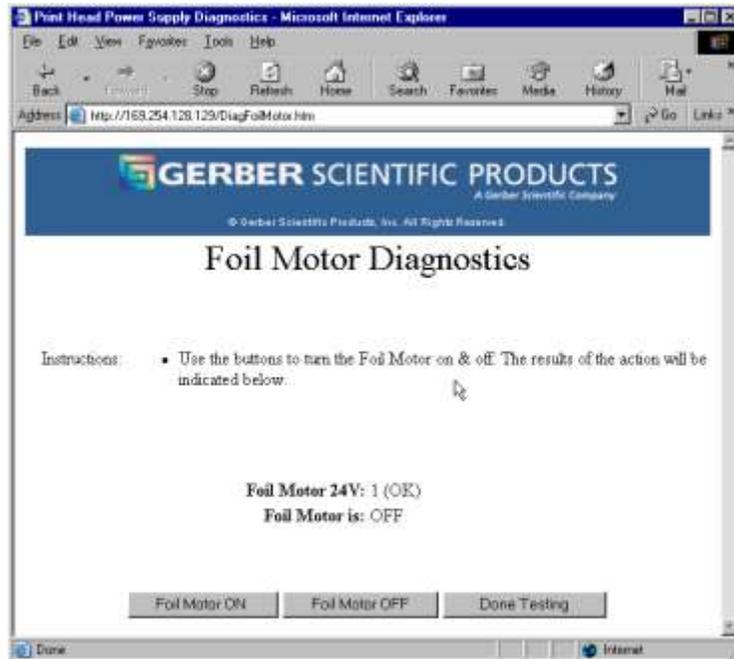
- 1 Open the GERBER EDGE FX web interface by entering the printer's IP address in the Location or Address line of your web browser (for example: <http://169.254.128.129>). The Welcome to GERBER EDGE FX screen displays.
- 2 Click the Diagnostics link to open the GERBER EDGE FX Diagnostics page.
- 3 Click the Input/Output link to open the Input/Output Diagnostics page.
- 4 Click TPH Fans to open the Print Head Fan Diagnostics web page.



- 5 Click Head Fans ON to activate the printer's fans.
- 6 Click Head Fans OFF to turn the printer's fans off. The results of the voltage test and the state of the fan (ON/OFF) display in the window.
- 7 Click Done Testing to return to the EDGE FX Diagnostics page.

➔ **To run the Foil Motor test**

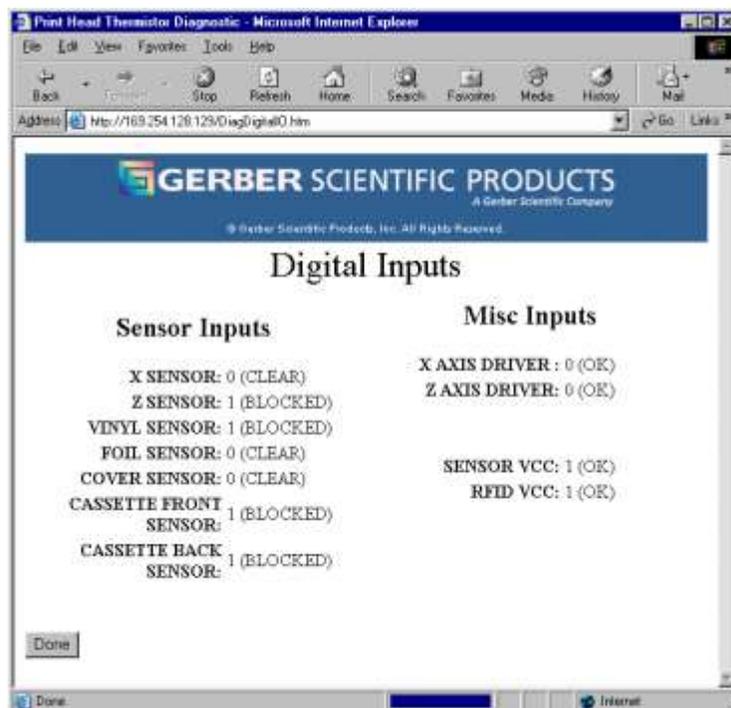
- 1 Open the GERBER EDGE FX web interface by entering the printer's IP address in the Location or Address line of your web browser (for example: <http://169.254.128.129>). The Welcome to GERBER EDGE FX screen displays.
- 2 Click the Diagnostics link to open the GERBER EDGE FX Diagnostics page.
- 3 Click the Input/Output link to open the Input/Output Diagnostics page.
- 4 Click Foil Motor to open the Foil Motor Diagnostics page.



- 5 Click Foil Motor ON to turn on the GERBER EDGE FX foil motor.
- 6 Click Foil Motor OFF to turn off the GERBER EDGE FX foil motor. The results of the expected voltage test and the state of the foil motor (ON/OFF) display in the window.
- 7 Click Done Testing to return to the EDGE FX Diagnostics page.

➤ To run the Digital Input test

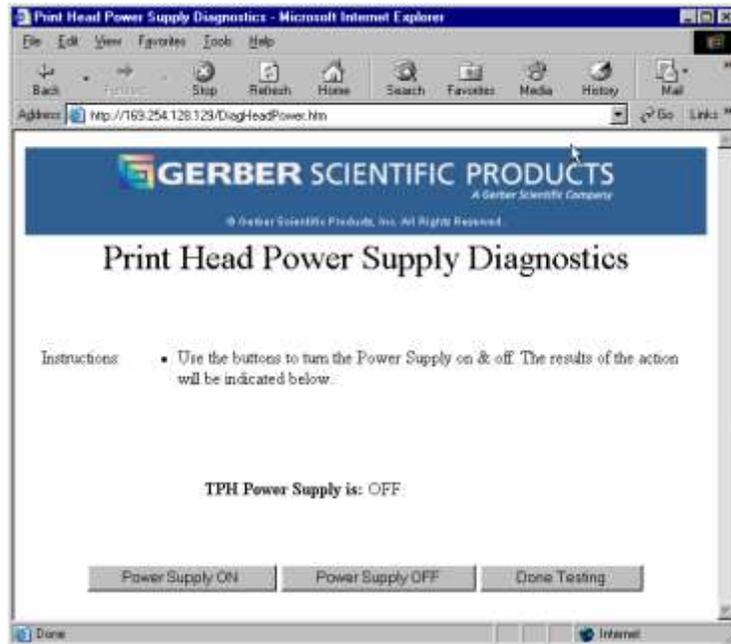
- 1 Open the GERBER EDGE FX web interface by entering the printer's IP address in the Location or Address line of your web browser (for example: <http://169.254.128.129>). The Welcome to GERBER EDGE FX screen displays.
- 2 Click the Diagnostics link to open the GERBER EDGE FX Diagnostics page.
- 3 Click the Input/Output link to open the Input/Output Diagnostics page.
- 4 Click Digital Input to read the digital signals going into the GERBER EDGE FX and display the results on the Digital Inputs page



- 5 Click Done to return to the GERBER EDGE FX Diagnostics page.

➔ **To run the TPH Power test**

- 1 Open the GERBER EDGE FX web interface by entering the printer's IP address in the Location or Address line of your web browser (for example: <http://169.254.128.129>). The Welcome to GERBER EDGE FX screen displays.
- 2 Click the Diagnostics link to open the GERBER EDGE FX Diagnostics page.
- 3 Click the Input/Output link to open the Input/Output Diagnostics page.
- 4 Click TPH Power to open the Print Head Power Supply Diagnostics page.



- 5 Click Power Supply ON to activate the power supply or Power Supply OFF to turn it off. The state of the TPH power supply (ON/OFF) displays in the window.
- 6 Click Done Testing to return to the EDGE FX Diagnostics page.

Viewing the System Log

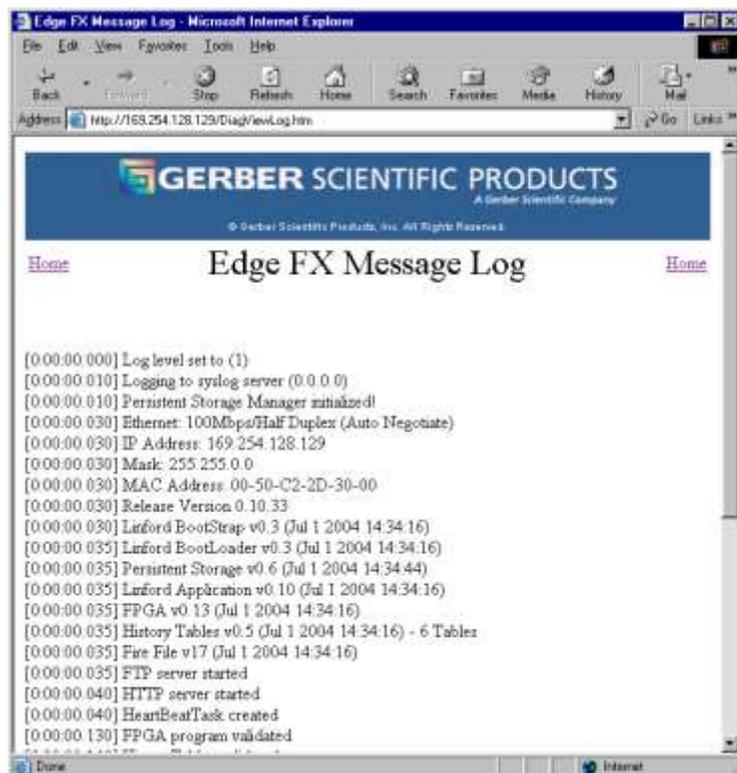
The System Log records information and error messages sent from the GERBER EDGE FX. You can modify the System Log Level from 1 (lowest) to 9 (highest) using the System Settings web page. The default setting is 1 (lowest) which records only the major errors and should be adequate for most users. The highest setting records all messages sent to the GERBER EDGE FX and is used by Gerber Technical Support for diagnostics. When the System Log is turned off (set to 0 (OFF)) no messages are recorded.

The numbers in the brackets to the left of the message indicate the time the message was logged since the printer was powered on. The time is displayed in **[hours : minutes : seconds : milliseconds]**.

The System Log can contain up to 32 kb of text messages. When the log becomes full, the newest message replaces the oldest message in the log.

➤ To view the System Log

- 1 Open the GERBER EDGE FX web interface by entering the printer's IP address in the Location or Address line of your web browser (for example: <http://169.254.128.129>). The Welcome to GERBER EDGE FX screen displays.
- 2 Click the Diagnostics link to open the GERBER EDGE FX Diagnostics page.
- 3 Click the View Log link to open the EDGE FX Message Log page.



- 4 Click Home to return to the Welcome to GERBER EDGE FX page.

Running Keypad test

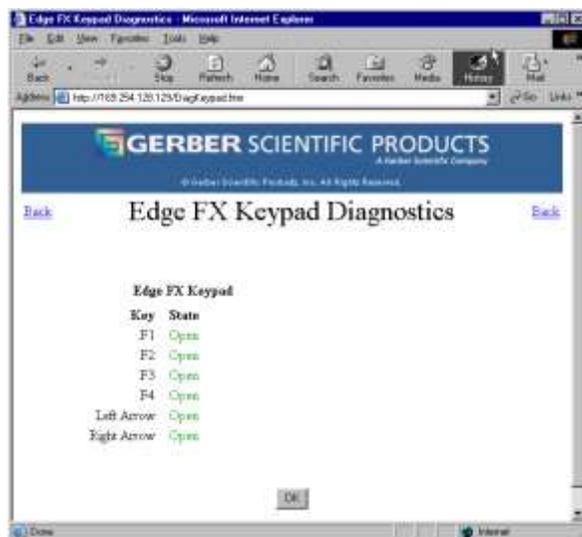
The Keypad tests check the operation of the keypad.

➔ To run the Keypad test

- 1 Open the GERBER EDGE FX web interface by entering the printer's IP address in the Location or Address line of your web browser (for example: <http://169.254.128.129>). The Welcome to GERBER EDGE FX screen displays.
- 2 Click the Diagnostics link to open the GERBER EDGE FX Diagnostics page.
- 3 Click the Keypad link to open the EDGE FX Keypad Diagnostics page.



- 4 Press the keys on the GERBER EDGE FX keypad one at a time or multiple keys at the same time and then click the Read Keys button. If the keys pressed match the displayed information the keypad is functioning properly.



- 5 Click OK to return to the first Edge FX Keypad Diagnostics page.
- 6 Click Done Testing to return to the Edge FX Diagnostics page.

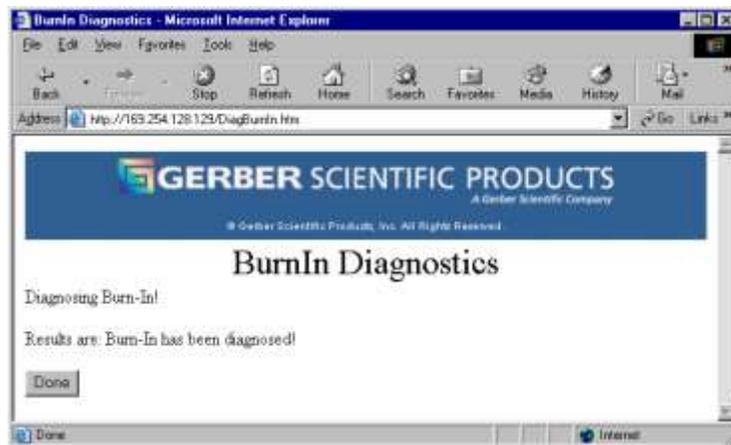
Running the Burn-In test

The burn in test will run the following cycle continuously until stopped. A cycle consists of these steps:

- ◆ Turn on the foil motor.
- ◆ Move the material forward three feet and then move the material backward three feet.
- ◆ Move print head up and down after moving the material. This will cause the foil motor to stop; however, it will be restarted as the cycle repeats.

➔ To run the Burn-In test

- 1 Open the GERBER EDGE FX web interface by entering the printer's IP address in the Location or Address line of your web browser (for example: <http://169.254.128.129>). The Welcome to GERBER EDGE FX screen displays.
- 2 Click the Diagnostics link to open the GERBER EDGE FX Diagnostics page.
- 3 Click the Burn-In link to begin the test and open the EDGE FX Burn-In Diagnostics page which displays the results. If the test is successful it displays the message: **Burn-In has been diagnosed.**



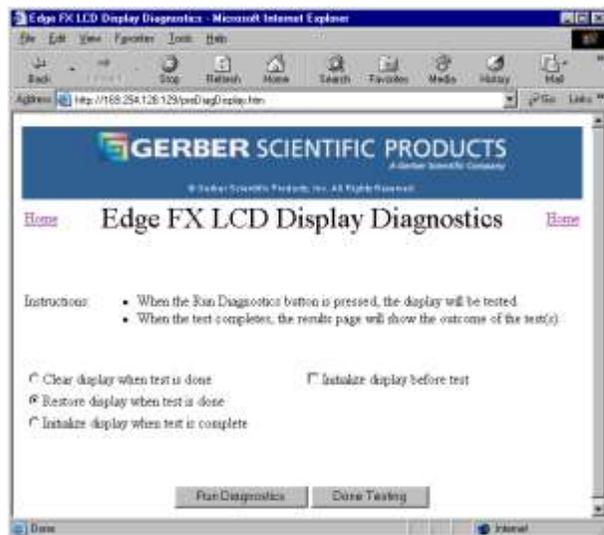
- 4 Click Done to return to the Edge FX Diagnostics page.

Running Display tests

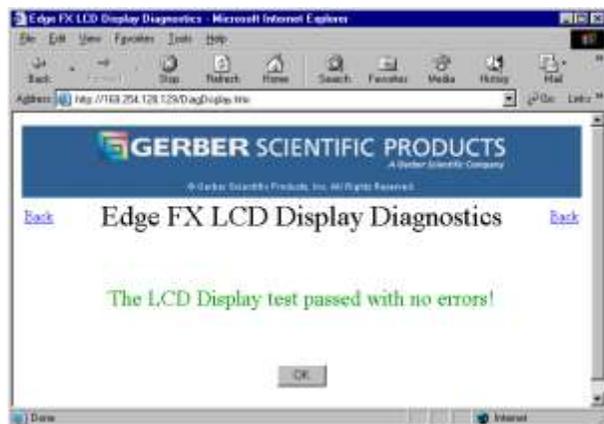
The Display tests check the operation of the LCD on the GERBER EDGE FX.

➔ To run the Display tests

- 1 Open the GERBER EDGE FX web interface by entering the printer's IP address in the Location or Address line of your web browser (for example: <http://169.254.128.129>). The Welcome to GERBER EDGE FX screen displays.
- 2 Click the Diagnostics link to open the GERBER EDGE FX Diagnostics page.
- 3 Click the Display link to open the EDGE FX LCD Display Diagnostics page.



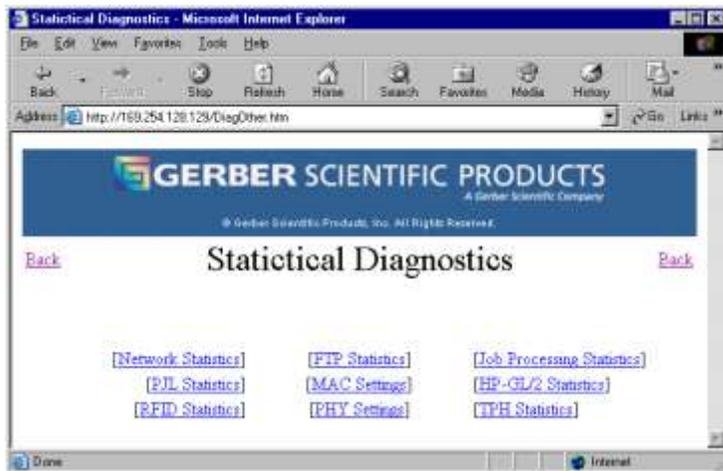
- 4 Choose one of the display test options (Clear, Restore, or Initialize) to determine how to treat the LCD when the testing is complete.
- 5 Turn on Initialize display before test if you wish to initialize before testing.
- 6 Click Run Diagnostics to test the LCD (liquid crystal display). The results page shows the outcome of the test.



- 7 Click OK to return to the Edge FX Diagnostic page.

Viewing the Statistics pages

The Statistics link offers several diagnostic statistic pages that can be useful when troubleshooting printer operation. The statistic pages provide information on the settings or status of the printer. You can not alter these settings. Click the Statistic link from the GERBER EDGE FX Diagnostics page to open the Statistical Diagnostic page.



The Statistical Diagnostic page has the following links are used in conjunction with a Gerber technical support:

- ◆ Network Statistics
- ◆ P/L Statistics
- ◆ RFID Statistics
- ◆ FTP Settings
- ◆ MAC Settings
- ◆ PHY Settings
- ◆ Job Processing Statistics
- ◆ HP-GL/2 Statistics
- ◆ TPH Statistics

Chapter 8: Maintenance



WARNING: Removing any external covers can expose hazardous moving parts. Keep fingers and other body parts away.

WARNING: To avoid electric shock, perform all maintenance procedures with the GERBER EDGE FX turned off and unplugged from the power source.

WARNING: Double pole neutral fusing.



Terminal for connection of protective earthing conductor.

Cleaning the GERBER EDGE FX

To keep the GERBER EDGE FX in prime condition you should routinely clean the following items:

- ◆ Print head
- ◆ Sprockets
- ◆ Bail arms
- ◆ Material squeegees
- ◆ Platen
- ◆ Foil squeegee

Cleaning the print head



WARNING: The print head will be damaged if any chemical other than 99% isopropyl alcohol is used to clean the print head. Clean the print head only when cooled and with the recommended ThermApprove™ disposable print head cleaning cards or a lint-free cloth moistened with 99% isopropyl alcohol. **DO NOT touch the print head with bare hands. DO NOT allow any foreign or unknown substances to come in contact with the print head.**

There are two times to clean the print head: normal cleaning, and removing contamination buildup. Normal cleaning refers to cleaning the print head before each job.

If a job is longer than 10 feet, clean the print head before loading each color cartridge. Use the ThermApprove disposable print head cleaning cards or a lint-free cloth moistened with 99% isopropyl alcohol to gently rub the entire length and width of the print head as shown in the

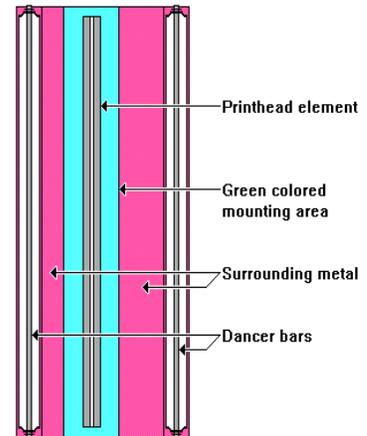
illustration. Do not soak the pad with alcohol or you may damage the print head. Dry the print head with a clean, lint-free cloth.

Contamination buildup occasionally occurs on the print head element itself (the brown strip surrounded by the green mounting area in the print head). When this happens, printing quality is degraded and a more thorough cleaning is necessary. We suggest you thoroughly cleaning the print head element weekly or as required.

If you need additional ThermApprove cleaning cards, contact your Gerber distributor or the GSP Customer Service.

➔ To clean the print head

- 1 Gently rub the entire length and width of the printing element with a ThermApprove cleaning card or lint-free cloth moistened with 99% isopropyl alcohol.



- 2 Dry the printing element with a clean, lint-free cloth.

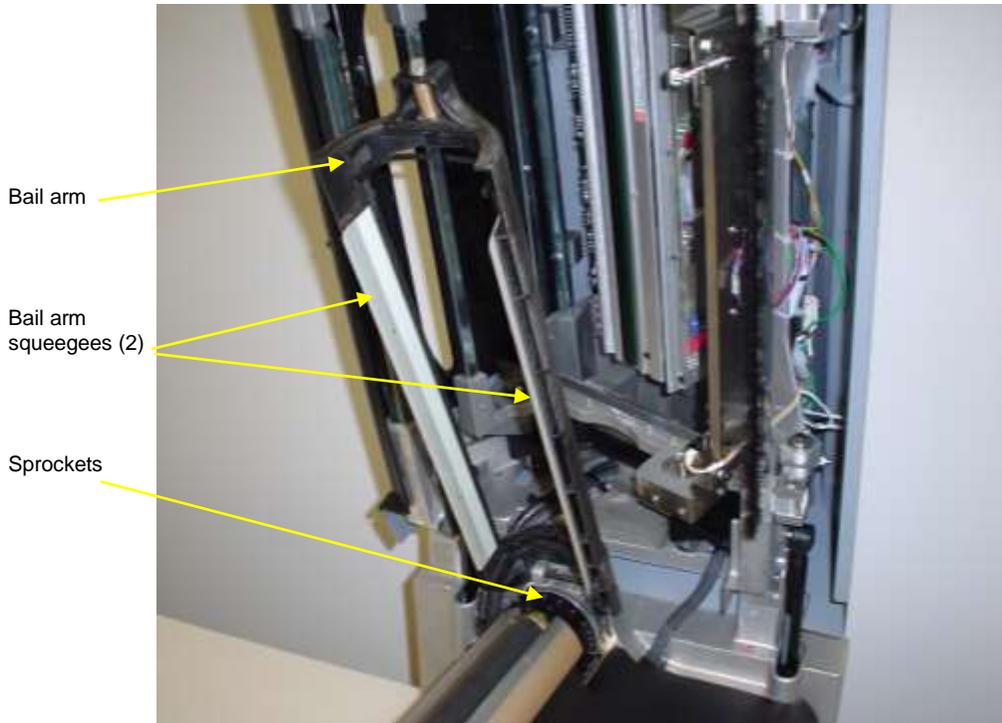
Cleaning the sprockets, bail arms, and squeegees

Wipe the bail arm squeegees and bail arm with ThermApprove cleaning cards or a clean, lint-free cloth moistened with 99% isopropyl alcohol.

If there is excessive build up of material adhesive on the sprockets (especially around the teeth), scrape it off using a small pick or brush, such as a toothbrush.



CAUTION: Do not dip the nylon brush in alcohol because excess alcohol can drip into the GERBER EDGE FX and cause damage.



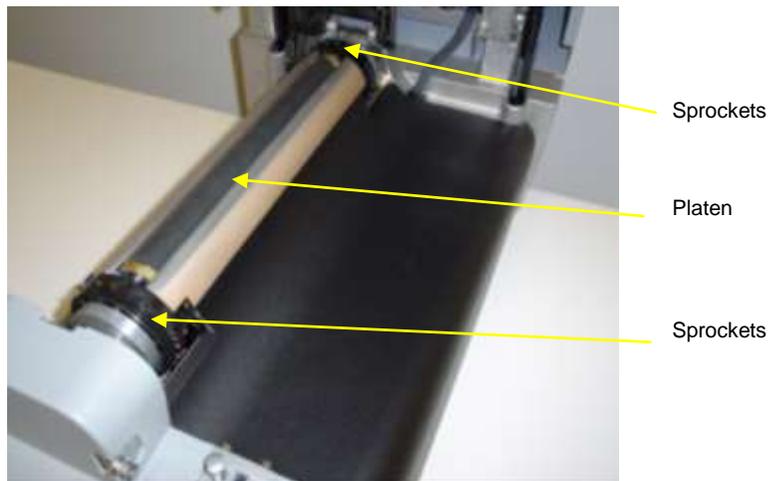
Wipe the sprockets with ThermApprove cleaning cards or a clean, lint-free cloth moistened with 99% isopropyl alcohol. Allow the sprockets to air dry before loading material. Refer to the photo to locate the areas to clean.



Note: Isopropyl alcohol may discolor the squeegees over time. Discoloring does not affect the operation of the squeegees.

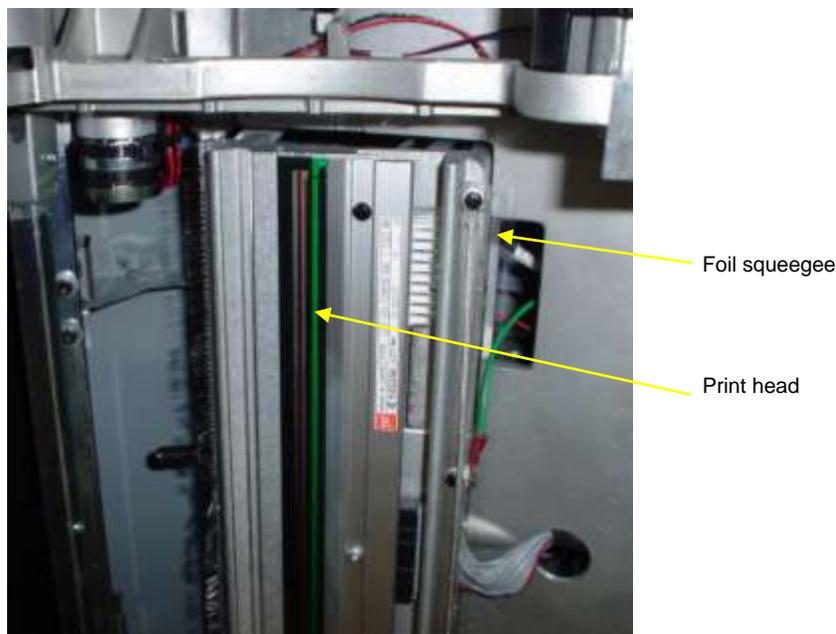
Cleaning the platen

Wipe the platen to remove any debris with ThermApprove cleaning cards or a clean, lint-free cloth moistened with 99% isopropyl alcohol. Allow to air dry before loading material. Refer to the following photo to locate the areas to clean.



Cleaning the foil squeegee

Wipe the foil squeegee with ThermApprove cleaning cards or a clean, lint-free cloth moistened with 99% isopropyl alcohol and let air dry.



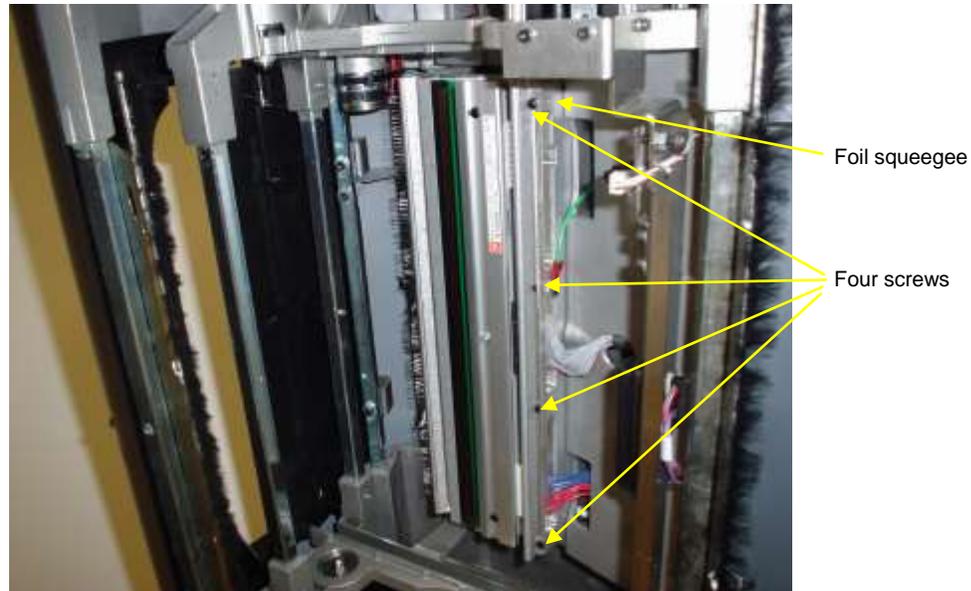
Replacing maintenance parts

You will need to replace material or foil squeegees on a yearly basis and fuses as required. One set of replacement maintenance items are included in the accessories box. Use the chart below to keep record of the replacement dates.

Maintenance part	Frequency	Replacement dates			
Foil squeegee	yearly (or sooner if needed)				
Bail arm material squeegees	yearly (or sooner if needed)				
Fuses	as needed				

Replacing the foil squeegee

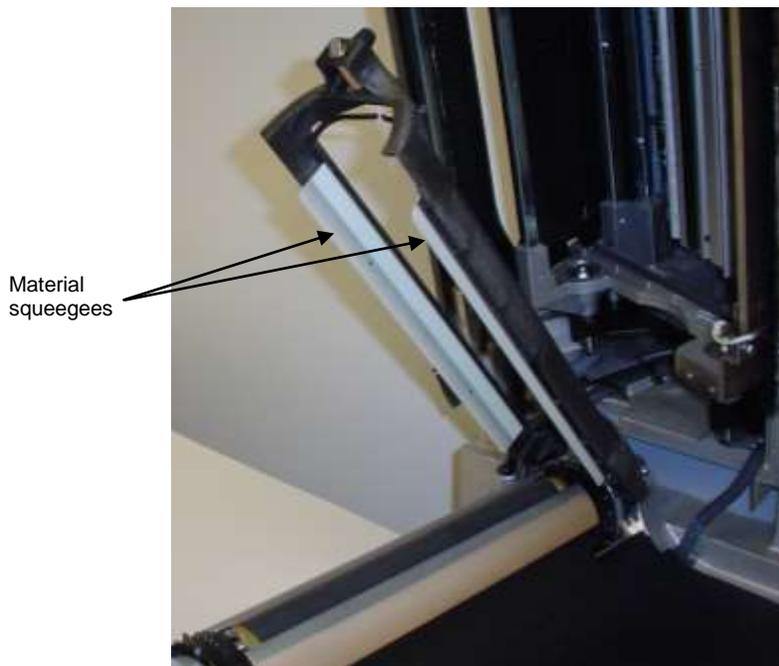
Replace the foil squeegee immediately if it is bent or damaged. Even if the foil squeegee is undamaged you should replace it once a year. Remove the four Phillips head screws that attach the foil squeegee making note of its position. Discard the squeegee. Attach the new foil squeegee using the same screws. One replacement foil squeegee is included in the original accessory box. Additional squeegees can be obtained from GSP Customer Service.



Replacing the bail arm material squeeeges

Replace a bail arm material squeegee immediately if it is bent or damaged. Even if the squeeeges are undamaged you should replace them once a year. Remove the two material squeeeges by peeling them off the bail arms and discarding them. Clean any residual adhesive off the bail arms with a lint-free cloth moistened with 99% isopropyl alcohol. Let the bail arms air dry.

Remove the adhesive liner off a new material squeegee and press it firmly into position. Repeat with the remaining squeegee. One set of replacement materials squeeeges is included in the accessories box. Additional squeeeges can be obtained from Gerber Customer Service.

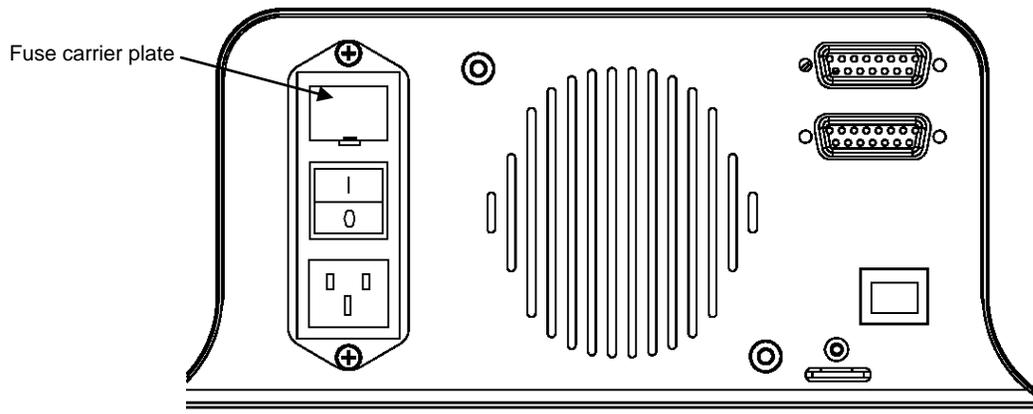


Replacing fuses



WARNING: To avoid electric shock, perform all maintenance procedures with the GERBER EDGE FX turned off and unplugged from the power source.

Two spare power-entry fuses (slow-blow) are provided with the GERBER EDGE FX. If you need to replace one, locate the fuse carrier plate on the back panel of the printer as shown in the following illustration. The fuse rating (amperage and voltage) is labeled next to the fuse carrier plate.



WARNING: Double Pole/Neutral Fusing.



To replace a fuse

- 1 Unplug the printer and remove the power cord from the GERBER EDGE FX.
- 2 Insert a small flat screwdriver into the notch from below and gently pry the fuse carrier plate out.
- 3 Remove the blown out fuse(s) from the carrier and insert new fuse(s).
- 4 Insert the fuse carrier into the GERBER EDGE FX with the notch down and snap into place.
- 5 Reconnect the power cord.

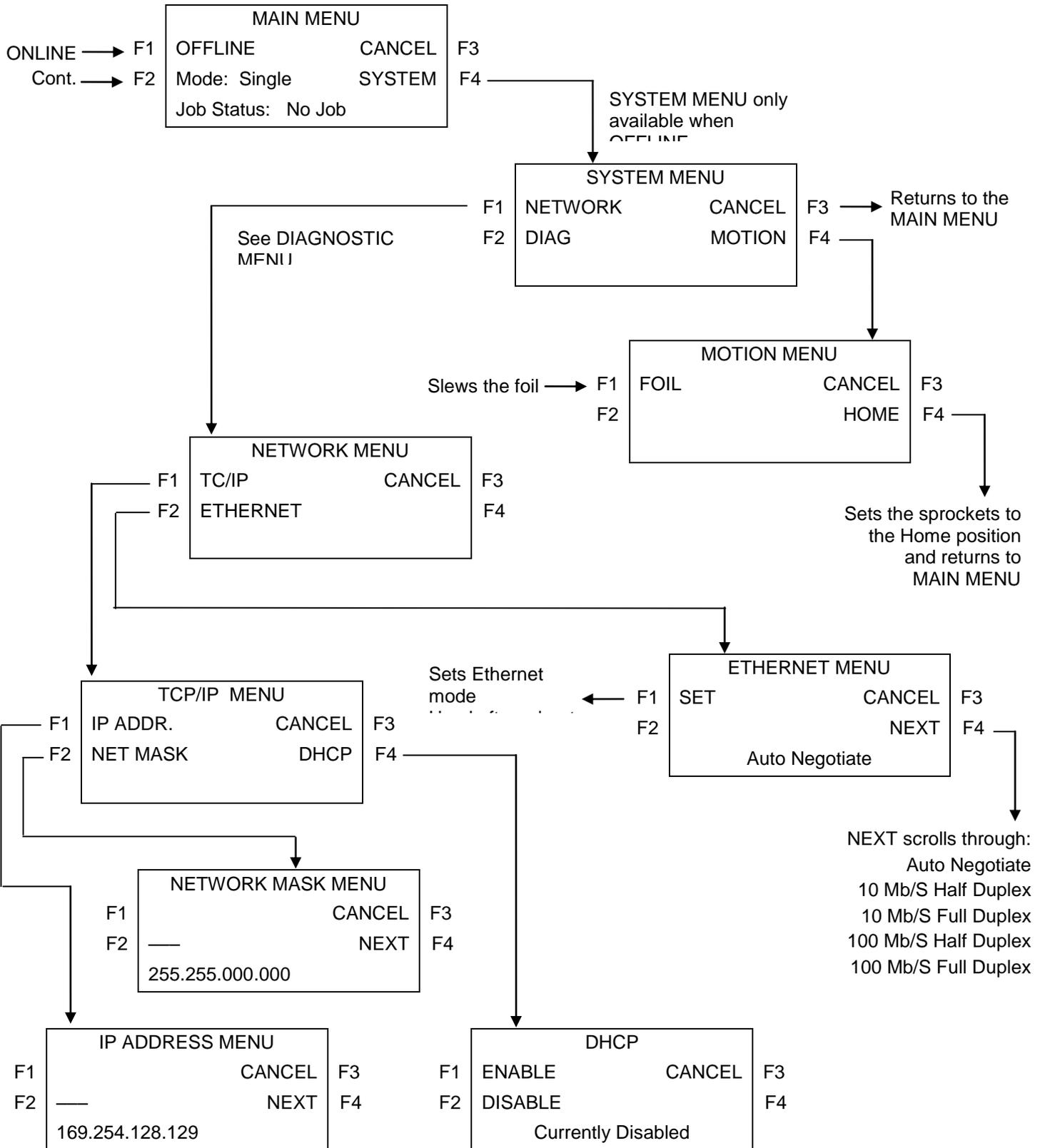
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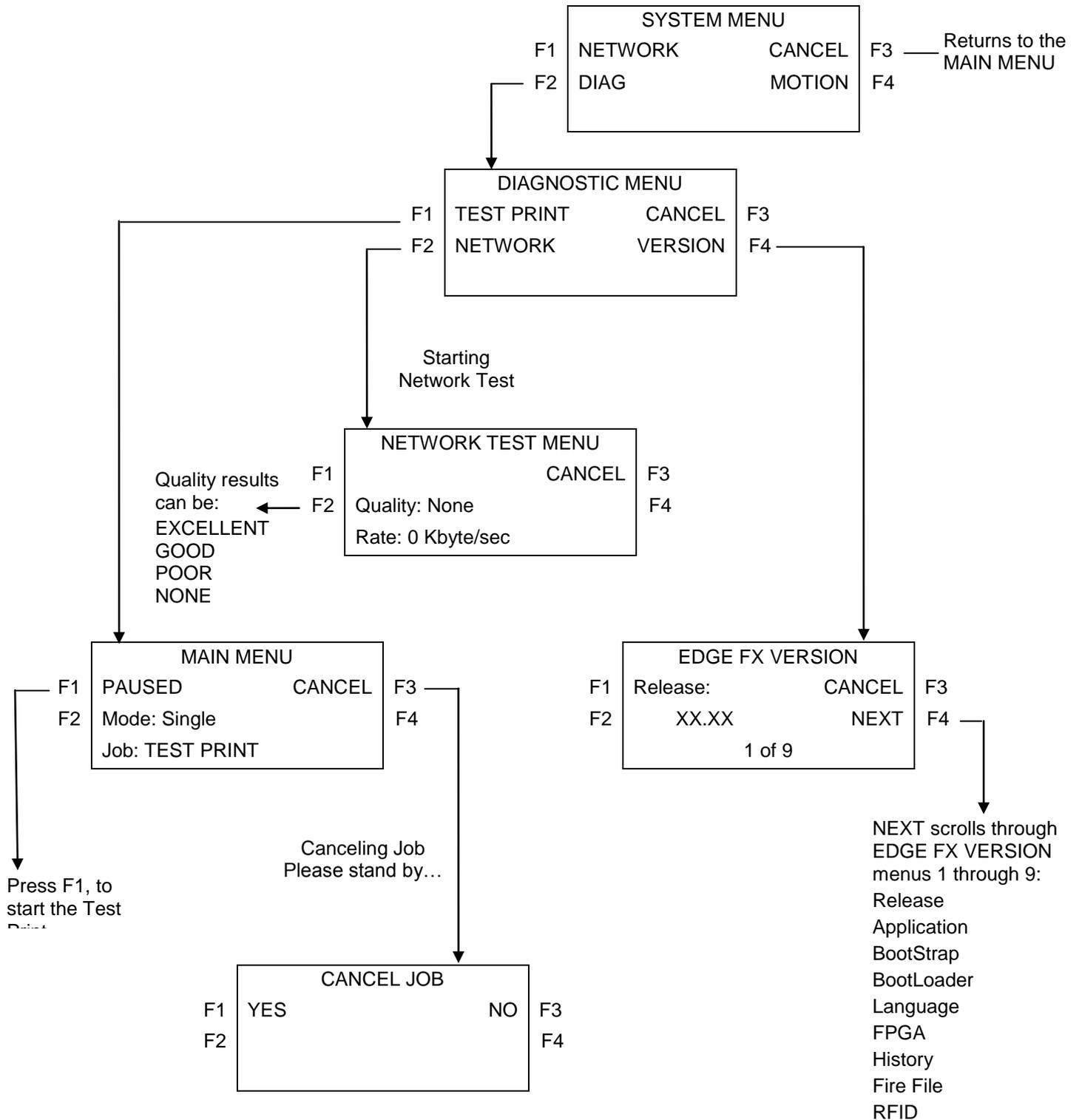
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Menu Tree – Main Menu/System Menu



Menu Tree – Diagnostic Menu





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