Gerber Scientific Products

Sabre™ Series Router Pre-Installation Checklist

Gerber FastFact #	5003
Supplied by:	Gerber Service
Last Modified:	June 28, 2012
Summary:	This document provides the Pre-Installation for your Sabre™ Series Router.

Dear Gerber Sabre™ Customer:

Thank you for purchasing the Sabre™, Gerber Scientific Products' advanced high-speed, three-dimensional router/engraver.

Please read the enclosed Pre-Installation Checklist immediately. Information related to work area, electrical, and option requirements are listed in this checklist. Timely delivery and installation of your Sabre™ Series Router depends on careful site preparation. Please note, if you ordered the T-Vac™ Table Option, it is important that you order the equipment specified in the Pre-Installation Checklist from Siemens® Energy & Automation Company immediately and according to the instructions in the checklist.

Prepare your site according to the checklist. The factory-trained distributor installation technicians will arrive to install your Sabre™.

THE SABRE™ SHOULD BE INSTALLED BY FACTORY-TRAINED PERSONNEL ONLY.

If you have questions regarding the Pre-Installation Checklist, please contact Gerber Service at:

800-828-5406

860-871-3862 (fax)

We welcome your comments about the system's operation, the quality it adds to your products, and the support you receive from your distributor.

Sincerely,

Gerber Service

Enclosures

- Pre-Installation Checklist (FastFact #5003)
- Sabre™ T-Vac™ Table Option Fact Sheet (FastFact #5020)
- Routing and Engraving Supply Brochure (Part # P69474A)
- Gerber Service Partners™ Plan Application (www.gspinc.com/support/service_partners_plans.html)

Gerber Scientific Products

Sabre™ Series Router

Pre-Installation

Checklist

Sabre™ Series Pre-Installation Checklist

This Pre-Installation Checklist will help you prepare for the arrival of your Sabre™ Series Router. There are four sections to the Pre-Installation Checklist:

- ☑ **1. Site Preparation** provides specifications for the work area, operating environment and air supply and electrical requirements.
- ☑ **2. T-Vac™ Table Option** provides ordering information, part numbers, and electrical specifications for the required optional equipment
- ☑ **3. Shipping and Receiving** provides physical specifications, handling instructions, aisle and doorway clearance information, and transportation claims instructions.
- ☑ **4. Protecting Your Investment** provides information about the Gerber Service Partners™ Plan extended warranty.

Although each section is important, site preparation and ordering the T-Vac™ Table Option equipment are critical for the smooth installation of your router. Please review and follow the checklist carefully. If you have any questions, please call Gerber Service at 800-828-5406.

1. Site Preparation

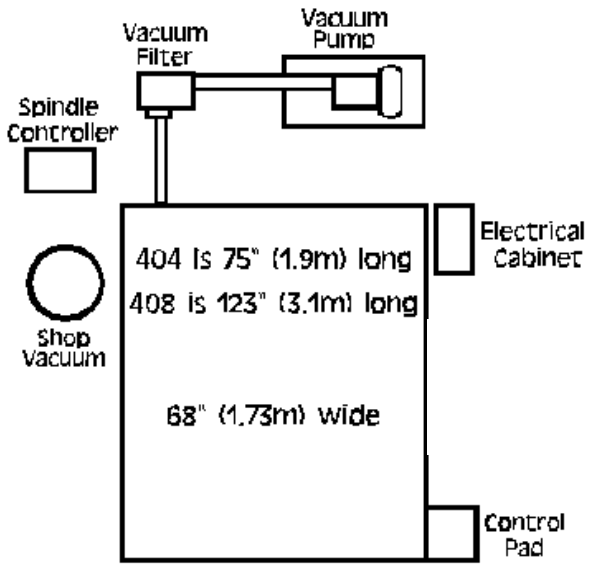
Site preparation provides specifications for the work area, operating environment and air supply, and electrical requirements.

☑ *Work Area Space Requirements*

Both the Sabre™ 404 and 408 require a work area width of 15.6 ft (4.8 m). This provides about 5-ft (1.5 m) of space on either side of the router for safe access to the table and controls. If you have the ATC option, you should allow an additional 3-ft (1 m) width to accommodate the ATC footprint.

The Sabre™ 404 requires a work area length of 17.75-ft (5.4 m). This provides about 7-ft (2.1 m) in front of the router and 3-ft (.9 m) behind the Electrical Cabinet for safe access and cutting large panel jobs.

The Sabre™ 408 requires a work area length of 21.75-ft (6.6 m). This provides about 7-ft (2.1 m) in front of the router and 3-ft (.9 m) behind the Electrical Cabinet for safe access and cutting large panel jobs.



Plan extra room for storing materials and supplies, and if you intend on doing long pull through jobs. Locate the power receptacles and air supply to the right of the Sabre™. Run the wires to the optional vacuum blower motor control panel so that it can be placed near the keyboard at the front of the system.

☑ *Operating Environment*

The operating environment must be within a temperature range of 55°F - 95°F (13°C - 35°C), and within a relative humidity range of 0% - 70%.

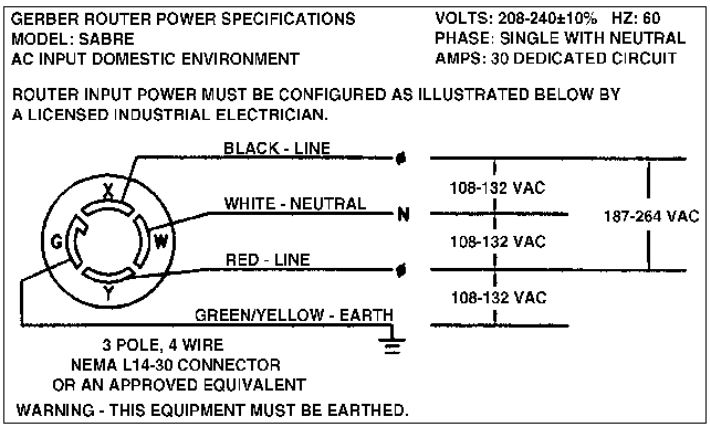
☑ *Air Supply Requirements*

The Mist Coolant System requires approximately 0.5 CFI of compressed air at 100 - 120 pounds per square inch, which can be provided by a 0.25 to 0.5 horsepower compressor.

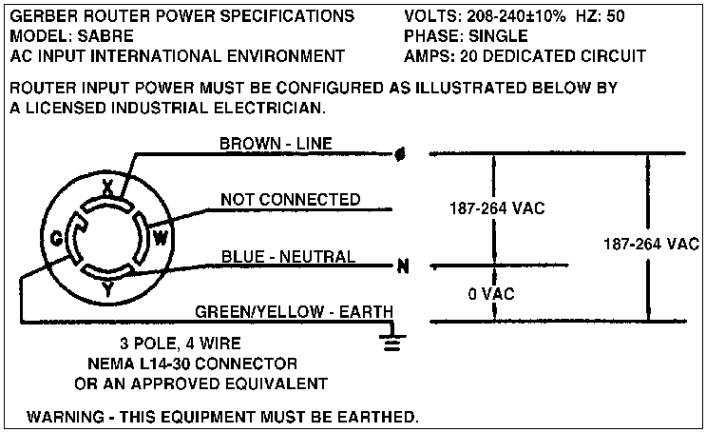
☑ *Electrical requirements*

There are different electrical requirements depending on the motor or spindle you ordered with your Sabre™. Please refer to the following three subsections to determine the specific electrical requirements

The Sabre™ requires an input voltage of 187 VAC – 264 VAC, single phase, 50/60 Hz. Determine the line voltage prior to installation. The receptacle must be near the Sabre™, and must be easily accessible. It must be wired by a licensed industrial electrician prior to installation. If there is no wall within six feet of the unit, a ceiling drop should be provided. The system is equipped with a 9-foot power cord.



Note: The Sabre™ reaches its maximum positioning rate at nominal line voltage of 230 VAC.



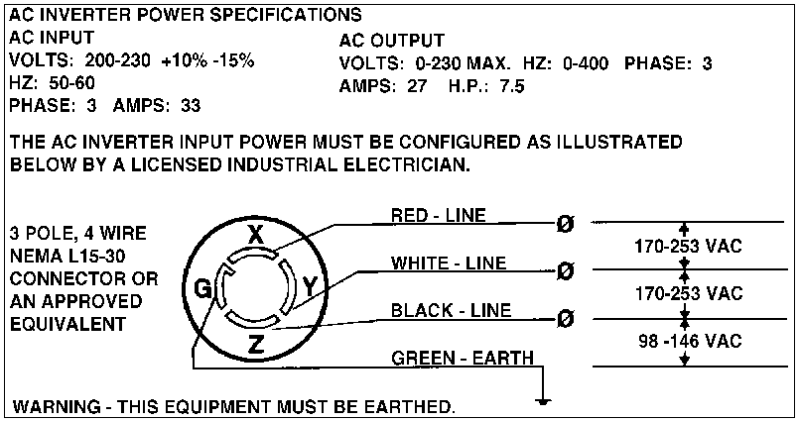
The electrical outlet receptacle (which you provide) must be installed prior to the installation of the Sabre™. **You MUST use the receptacle specified at the right.** DO NOT substitute another receptacle in its place. **Do not tie G and W together. The export (international) configuration does not use the W connection.** Contact your distributor if you are unsure of the configuration he ordered for you.

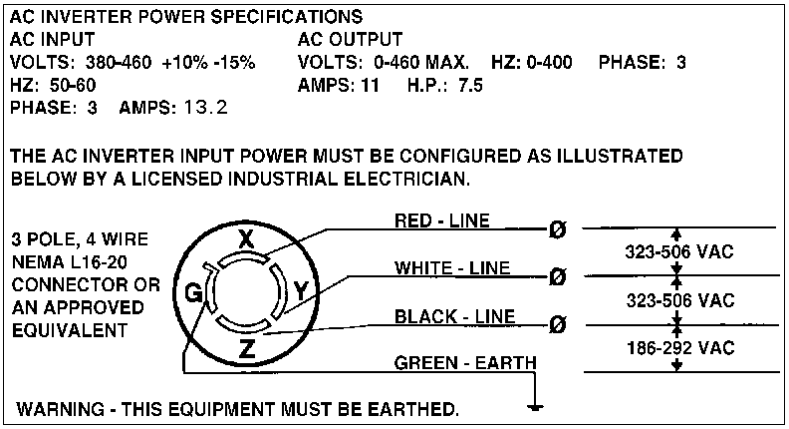
PERSKE SPINDLE OPTION

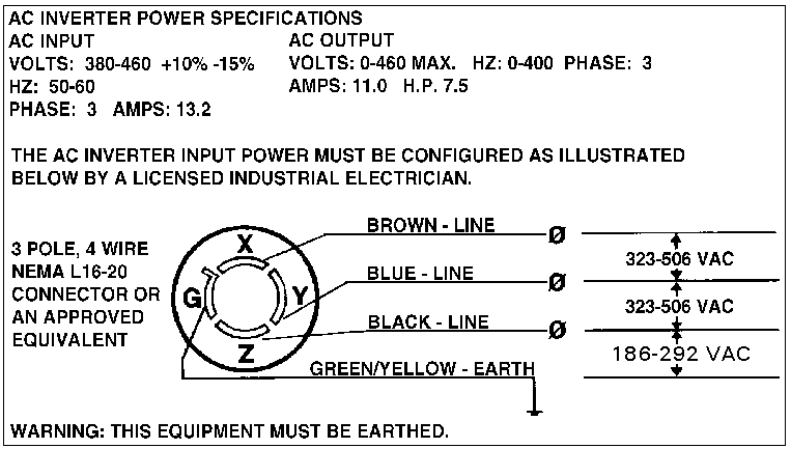
If you purchased the Perske High Frequency Spindle Option, it requires its own dedicated electrical circuit in addition to the circuit used by the Sabre™. It must be wired by a licensed industrial electrician prior to installation. The controller is equipped with a 9-foot power line cord to plug into the outlet receptacle.

The electrical outlet receptacle must be installed prior to the installation of the Sabre™. **You MUST use the specified receptacle shown at the right.** DO NOT substitute another receptacle in its place.

Note: The top schematic is for the three phase, 200-230 V controller. The middle schematic is for the three phase, 380-460 V controller. The bottom schematic is for the three phase, 380-460 V CE approved controller.







CHIP REMOVAL SYSTEM

The domestic model Chip Removal System requires a vacuum with a minimum 3 HP motor using 115 V at 15 Amp maximum. The export model Chip Removal System requires a vacuum with a minimum 3 HP motor using 230 v 7.5 Amp maximum.

The vacuum hose must be 2.5-inch (6.35-cm) diameter to attach to the Chip Removal System. The Chip

Removal System vacuum plugs into the outlet on the back of the electrical cabinet.

2. T-Vac™ Table Option

This section provides ordering information and pre-installation instructions for the T-Vac™ Table Option equipment.

☑ *T-Vac™ Table Option requirements*

EQUIPMENT ORDERING INFORMATION

The T-Vac™ Table Option requires that you purchase and have on site the vacuum filter, relief valve, vacuum pump, and vacuum pump motor control panel prior to installing the Sabre™. The part numbers of the equipment you need is provided in the enclosed T-Vac™ Table Option Fact Sheet.

Gerber has made arrangements with the supplier, Airtech, Inc., to purchase this equipment at a substantially discounted price. To order it, contact:

Rich Ricciardi

rricciardi@ airtechusa.com

www.airtechusa.com

150 S. Van Brunt St.,

Englewood NJ 07631

Phone: 630-347-5977

Fax: 877-815-6703

Note: When ordering, it is important to mention that your order is for a Gerber routing system. This qualifies you for the discounted price.

Please order this equipment immediately. It must be at your site before the Sabre™ is installed. The distributor installation technician will position the equipment when he arrives. You will need to have a licensed industrial electrician make the final connections from the motor through the control panel to the circuit breaker after the equipment is in position.

VACUUM BLOWER MOTOR PRE-INSTALLATION INSTRUCTIONS

The power requirements for the Siemens® vacuum blower motor are:

- 10 HP, three phase, 400 - 480 V at 11.5 Amp, or
- 10 HP, three phase, 200 - 240 V at 23 Amp, or
- 7 HP, single phase, 208 - 230 V at 39 - 37 Amp.

The vacuum pump motor is supplied with a pre wired control panel. The control panel consists of an on/off switch, a magnetic starter, and a thermal overload heater element. Have the licensed industrial electrician run the wires from the circuit breaker to the control panel so that the control panel will be close to the front of the Sabre™ system as shown in the work area illustration. Do not wire the vacuum blower to the control panel until after the installation technician positions the blower motor.

If you have any questions regarding the equipment or instructions, please contact Mr. Rich Ricciardi at

Airtech, Inc. If you have questions regarding the control panel or its placement, please contact Gerber Service at:

800-828-5406

860-871-3862 (fax)

Note: When ordering the control panel, please specify to Airtech, Inc. your facility voltage to ensure that the control panel/starter is equipped with the correct magnetic coil.

3. Shipping and Receiving

This section provides physical specifications, handling instructions, aisle and doorway clearance information, and transportation claims instructions.

☑ *Physical Specifications*

The system and all options are usually shipped in one crate. Below are the physical specifications of the crated and assembled system.

Crated Sabre™ Systems

	Length	**Width**	**Height**	**Weight**
Sabre™ 404 (without options)	81 inches (2057.4 mm)	75 inches (1905 mm)	73 inches (1854.2 mm)	1760 lb. (798.3 kg)
Sabre™ 408 (without options)	130 inches (3302 mm)	75 inches (1905 mm)	73 inches (1854.2 mm)	2530 lb. (1147.6 kg)

Assembled Sabre™ Systems

	Length	**Width**	**Height**	**Weight**
Sabre™ 404 Table	75 inches (1905 mm)	68 inches (1727.2mm)	60 inches (1524 mm)	1245 lb. (564.7 kg)
Sabre™ 408 Table	123 inches (3124 mm)	68 inches (1727.2 mm)	60 inches (1524 mm)	1575 lb. (714.4 kg)
Electrical Cabinet	25 inches (635 mm)	18 inches (457.2 mm)	29 inches (736.6 mm)	175 lb. (79.4 kg)

☑ *Handling instructions*

The Sabre™ is shipped EXW or CPT, Tolland, CT, USA, and you are responsible for any risk or loss after it leaves our dock. Unless agreed upon in writing, taxes, duties, transportation and insurance are the customer's responsibility. Please read your contract carefully for details.

The Sabre™ is a precision machine tool and should be handled accordingly. Never lift the system higher than absolutely necessary or transport it in an abusive manner. Either you or your distributor must make provisions for unloading the Sabre™ from the truck and moving it to its destination. A crated Sabre™ system requires a forklift, or pallet jack with extended forks of 75 inches (1.9 m) is required if your facility does not have loading dock access. The uncrated Sabre™ requires a forklift, or pallet jack with forks a minimum of 68 inches (1.73 m) in length to safely move the system.

☑ *Aisle and doorway clearance information*

Refer to the crated dimensions of the packaged Sabre™ system to ensure there is sufficient clearance for cornering the package. If your maximum clearance is less than the crated dimensions, please contact Gerber Service for special instructions.

☑ *Handling transportation claims*

Gerber Scientific Products also offers the following guidelines for handling transportation claims. Since your Sabre™ is shipped EXW or CPT, Tolland, CT, USA and you, the customer, are responsible for any occurrences relating to the system after it leaves our dock. The following guidelines will assist you with identifying possible damage and the procedures to follow to file a claim. Three primary transportation claims are **loss**, **visible damage**, and **concealed damage**.

IMPORTANT NOTICE: If your shipment suffers loss or damage, please contact your distributor as soon as possible.

LOSS

A carrier's driver will have a delivery receipt itemizing the contents of the shipment. You and the driver should physically count the items as they are delivered and verify them with the delivery receipt. If the shipment is not complete, make a loss notation on **ALL** copies of the delivery receipt, which you and the driver should sign.

Clearly and concisely note the shortage on the delivery receipt and the customer copy. Describe **EXACTLY** what is missing; do not just write "one piece short."

VISIBLE DAMAGE

When the carrier delivers your shipment, you must examine **EACH** container as it is delivered. If any container shows evidence of damage, open the package **IMMEDIATELY**. You and the driver should make the inspection together. List and describe the damage on the delivery receipt and have it co-signed by the driver. Again, describe the visible damage in as much detail as possible, not just in general terms.

CONCEALED DAMAGE

This is the most difficult type of claim to collect from the carrier. The burden of proof reverts to you, the customer, to prove the shipment suffered the damage or loss while in the carrier's possession. The carrier holds a clear delivery receipt with no notation describing damage or loss. The longer the shipment is in your possession, the more difficult it is to collect from the carrier. Time is of the utmost importance.

When your distributor uncrates the Sabre™ system, inspect everything for damage or loss. As soon as you discover concealed damage or loss, telephone the carrier **IMMEDIATELY** and request an inspection. Be sure to ask the name of the person you talk to, and write it down. **IMMEDIATELY** confirm your telephone conversation with a letter directed to that person.

If you discover damage (as opposed to loss), stop unpacking and do nothing further to disturb the

shipment. Save all packaging and leave the damaged equipment exactly where it is, if at all possible. The carrier or its agent will make the inspection within five working days after you, the customer, report the concealed damage or loss. If the carrier does not make the inspection or waives inspection, you should make the inspection and record all information to the best of your ability. All reports of concealed loss or damage must be received by the carrier within fifteen working days.

4. Protecting Your Investment

From the date of installation, your router is covered by a standard router warranty that includes all necessary replacement parts and factory labor for the period of one year and on-site labor and expenses for the first ninety- (90) days.

Additional coverage to protect your router investment beyond the standard warranty period is available through one of Gerber's router service plans. Gerber's Service Partners Plan for Router Products covers all necessary replacement parts and factory labor for the period of one year. Our Gerber Guardian Plan for routers covers all necessary replacement parts, factory labor, on-site labor and expenses, and one preventative maintenance visit during the one-year term of the plan. (The Gerber Guardian Plan is available in limited geographical locations.)

As a special bonus, customers may purchase up to three years of service plan coverage if they do so during the original one-year warranty period. Purchasing multiple years of coverage protects your router from potentially costly repairs while protecting you from future service plan price increases. Multi-year purchases are only available only during the warranty period. After the warranty period expires, service contract coverage can only be purchased one year at a time.

Complete information about pricing and availability of Gerber service plans is available through the support section of our web site, www.gspinc.com, or by calling your distributor or Gerber Service at 1-800-828-5406.

.