MODEL G9922
OSCILLATING SPINDLE SANDER
OWNER'S MANUAL

(FOR MODELS MANUFACTURED SINCE 12/01) #JB10570 PRINTED IN CHINA

⚠ WARNING!

This manual provides critical safety instructions on the proper setup, operation, maintenance and service of this machine/equipment.

Failure to read, understand and follow the instructions given in this manual may result in serious personal injury, including amputation, electrocution or death.

The owner of this machine/equipment is solely responsible for its safe use. This responsibility includes but is not limited to proper installation in a safe environment, personnel training and usage authorization, proper inspection and maintenance, manual availability and comprehension, application of safety devices, blade/cutter integrity, and the usage of personal protective equipment.

The manufacturer will not be held liable for injury or property damage from negligence, improper training, machine modifications or misuse.

⚠ WARNING!

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- **Lead from lead-based paints.**
- **Crystalline silica from bricks, cement and other masonry products.**
- **Arsenic and chromium from chemically-treated lumber.**

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: Work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

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INTRODUCTION

Foreword

We are proud to offer the Model G9922 Oscillating Spindle Sander. This machine is part of a growing Grizzly family of fine woodworking machinery. When used according to the guidelines set forth in this manual, you can expect years of trouble-free, enjoyable operation and proof of Grizzly's commitment to customer satisfaction.

The specifications, drawings, and photographs illustrated in this manual represent the Model G9922 when the manual was prepared. However, owing to Grizzly's policy of continuous improvement, changes may be made at any time with no obligation on the part of Grizzly. For your convenience, we always keep current Grizzly manuals available on our website at **www.grizzly.com**. Any updates to your machine will be reflected in these manuals as soon as they are complete. Visit our site often to check for the latest updates to this manual!

Contact Info

We stand behind our machines. If you have any service questions, parts requests or general questions about the machine, please call or write us at the location listed below.

Grizzly Industrial, Inc.
1203 Lycoming Mall Circle
Muncy, PA 17756
Phone: (570) 546-9663
Fax: (800) 438-5901
E-Mail: techsupport@grizzly.com

If you have any comments regarding this manual, please write to us at the address below:

Grizzly Industrial, Inc.
C/O Technical Documentation Manager
P.O. Box 2069
Bellingham, WA 98227-2069
Email: manuals@grizzly.com

Functional Overview

An oscillating spindle sander is used to sand the edges of contoured or irregularly shaped workpieces.

The Model G9922 Oscillating Spindle Sander uses 2" x 5¼" sanding sleeves and oscillates with a 1" stroke at a rate of 64 strokes per minute.

The 14½" square sanding table provides a solid platform for supporting workpieces and can tilt up to 45° for sanding beveled edges. The table also features a miter gauge for sanding straight edges on a miter-cut workpiece.

The integrated 2" dust collection port can be fitted to a dust collection system to reduce the amount of dust released by the machine.

During typical operation, the table is tilted to the desired angle and locked in place with the lock knobs. The machine is turned on and the spindle is allowed to reach its full speed. With steady pressure against both the table and the sanding drum, the workpiece is fed past the drum. The amount of material removed depends on the speed and pressure with which the workpiece is fed and the grit of the sanding sleeve.

Sanding sleeves are replaced by un-threading the plastic cap and sliding the sleeve off the drum.

Identification

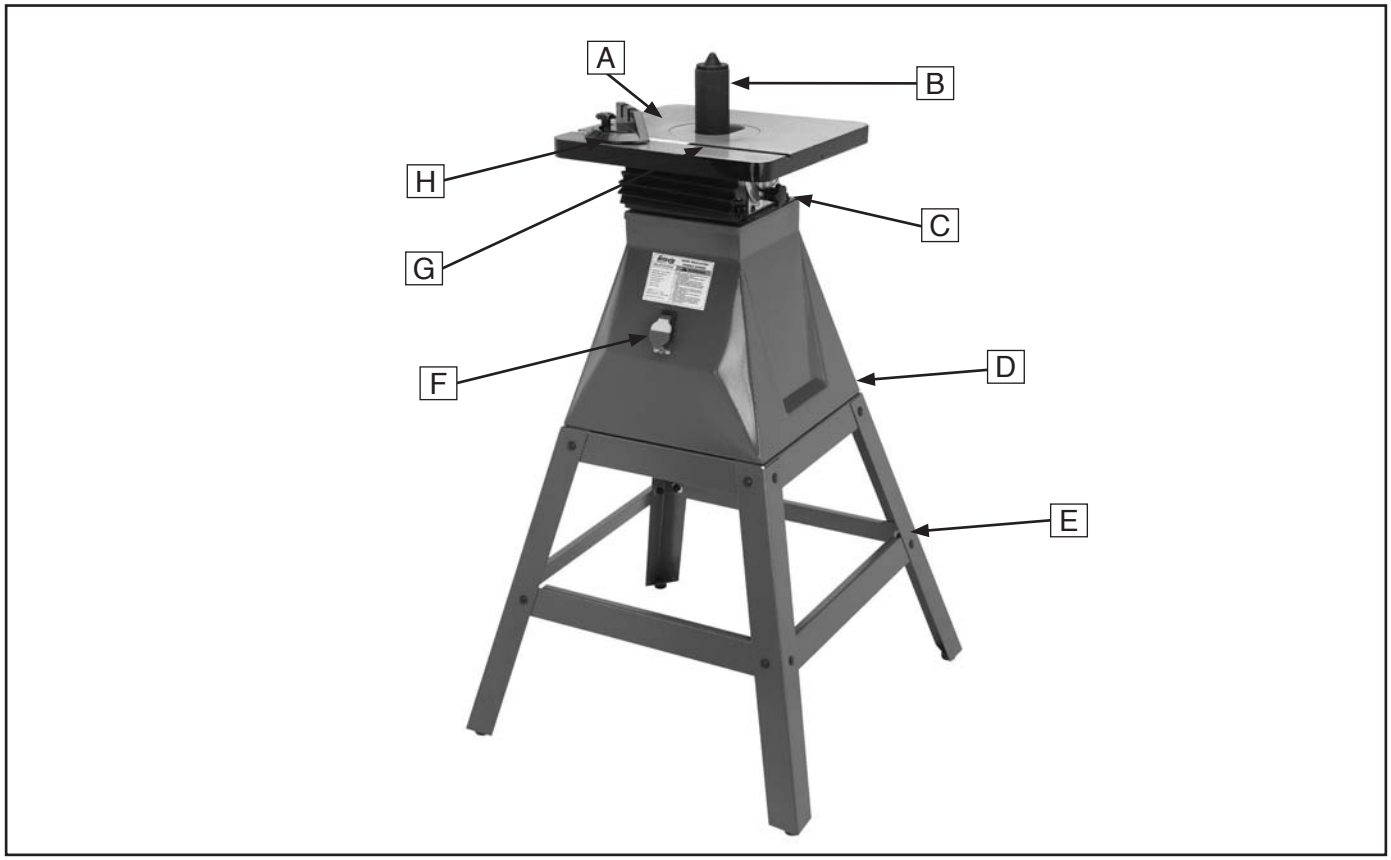


Figure 1. Identification.

A. Sanding Table
B. Sanding Drum
C. Table Angle Lock Knob
D. Machine Base
E. Machine Stand
F. ON/OFF Switch
G. Table Miter Slot
H. Miter Gauge

MACHINE DATA SHEET

Customer Service #: (570) 546-9663 · To Order Call: (800) 523-4777 · Fax #: (800) 438-5901

MODEL G9922 OSCILLATING SPINDLE SANDER

Product Dimensions:

Weight	86 lbs.
Length/Width/Height	26 x 26 x 39-1/2 in.
Foot Print (Length/Width)	25-1/2 x 25 in.

Shipping Dimensions:

Type	Cardboard
Content	Machine
Weight	102 lbs.
Length/Width/Height	18 x 17 x 23 in.

Electrical:

Switch	Toggle On/Off with Safety Locking Tab
Switch Voltage	110V
Cord Length	6 ft.
Cord Gauge	18 gauge
Recommended Breaker Size	15 amp
Plug	Yes

Motors:

Main

Type	TEFC Capacitor Start Induction
Horsepower	1/2 HP
Voltage	110V
Prewired	110V
Phase	Single
Amps	4.6A
Speed	3450 RPM
Cycle	60 Hz
Number Of Speeds	1
Power Transfer	Direct Drive
Bearings	Sealed and Permanently Lubricated

Main Specifications:

Table Info

Table Width	14-1/2 in.
Table Length	14-1/2 in.
Table Thickness	1 in.
Table Tilt	45 deg.
Table Opening	5-1/2 in.
Table Inserts	2-3/8 in.
Floor To Table Height	39-1/2 in.
Miter Gauge Slot Width	5/8 in.
Miter Gauge Slot Height	1/4 in.

Spindle Info

Spindle Diameters	2 in.
Spindle Lengths	5-1/2 in.
Spindle Speed	3450 RPM
Spindle Oscillations	64 SPM
Stroke Length	1 in.
Arbor Size	15 mm
Total Arbor Length	5 in.

Construction

Base Construction	Formed Steel
Stand Construction	Steel
Table Construction	Ground Cast Iron
Frame Construction	Steel
Miter Gauge Construction	Plastic
Paint	Epoxy

Other

No. Of Dust Ports	1
Dust Port Size	2 in.
Mobile Base	G7314

Other Specifications:

Country Of Origin	China
Warranty	1 Year
Serial Number Location	Front Label
Assembly Time	1 hour

Features:

Includes 80 Grit Sanding Sleeve, Miter Gauge and Wrench Set
Table Tilts to 45 deg. for Bevel Sanding
Steel Construction
Cast Iron Table
Paddle Safety Switch with Lock

SECTION 1: SAFETY

⚠WARNING

For Your Own Safety, Read Instruction Manual Before Operating this Machine

The purpose of safety symbols is to attract your attention to possible hazardous conditions. This manual uses a series of symbols and signal words intended to convey the level of importance of the safety messages. The progression of symbols is described below. Remember that safety messages by themselves do not eliminate danger and are not a substitute for proper accident prevention measures.

⚠DANGER **Indicates an imminently hazardous situation which, if not avoided, WILL result in death or serious injury.**

⚠WARNING **Indicates a potentially hazardous situation which, if not avoided, COULD result in death or serious injury.**

⚠CAUTION **Indicates a potentially hazardous situation which, if not avoided, MAY result in minor or moderate injury. It may also be used to alert against unsafe practices.**

NOTICE **This symbol is used to alert the user to useful information about proper operation of the machine.**

⚠WARNING
Safety Instructions for Machinery

1. **READ ENTIRE MANUAL BEFORE STARTING.** Operating machine before reading the manual greatly increases the risk of injury.
2. **ALWAYS USE ANSI APPROVED SAFETY GLASSES WHEN OPERATING MACHINERY.** Everyday eyeglasses only have impact resistant lenses—they are NOT safety glasses.
3. **ALWAYS WEAR A NIOSH APPROVED RESPIRATOR WHEN OPERATING MACHINERY THAT PRODUCES DUST.** Most types of dust (wood, metal, etc.) can cause severe respiratory illnesses.
4. **ALWAYS USE HEARING PROTECTION WHEN OPERATING MACHINERY.** Machinery noise can cause permanent hearing loss.
5. **WEAR PROPER APPAREL.** DO NOT wear loose clothing, gloves, neckties, rings, or jewelry that can catch in moving parts. Wear protective hair covering to contain long hair and wear non-slip footwear.
6. **NEVER OPERATE MACHINERY WHEN TIRED OR UNDER THE INFLUENCE OF DRUGS OR ALCOHOL.** Be mentally alert at all times when running machinery.

⚠WARNING
Safety Instructions for Machinery

7. **ONLY ALLOW TRAINED AND PROPERLY SUPERVISED PERSONNEL TO OPERATE MACHINERY.** Make sure operation instructions are safe and clearly understood.

8. **KEEP CHILDREN/VISITORS AWAY.** Keep all children and visitors away from machinery. When machine is not in use, disconnect it from power, lock it out, or disable the switch to make it difficult for unauthorized people to start the machine.

9. **UNATTENDED OPERATION.** Leaving machine unattended while its running greatly increases the risk of an accident or property damage. Turn machine ***OFF*** and allow all moving parts to come to a complete stop before walking away.

10. **DO NOT USE IN DANGEROUS ENVIRONMENTS.** DO NOT use machinery in damp, wet locations, or where any flammable or noxious fumes may exist.

11. **KEEP WORK AREA CLEAN AND WELL LIGHTED.** Clutter and dark shadows may cause accidents.

12. **USE A GROUNDED POWER SUPPLY RATED FOR THE MACHINE AMPERAGE.** Grounded cords minimize shock hazards. Operating machine on an incorrect size of circuit increases risk of fire.

13. **ALWAYS DISCONNECT FROM POWER SOURCE BEFORE SERVICING MACHINERY**. Make sure switch is in OFF position before reconnecting.

14. **MAINTAIN MACHINERY WITH CARE.** Keep blades sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.

15. **MAKE SURE GUARDS ARE IN PLACE AND WORK CORRECTLY BEFORE USING MACHINERY.**

16. **REMOVE CHUCK KEYS OR ADJUSTING TOOLS.** Make a habit of never leaving chuck keys or other adjustment tools in/on the machine—especially near spindles!

17. **DAMAGED MACHINERY.** Check for binding or misaligned parts, broken parts, loose bolts, other conditions that may impair machine operation. Always repair or replace damaged parts before operation.

18. **DO NOT FORCE MACHINERY.** Work at the speed for which the machine or accessory was designed.

19. **SECURE WORKPIECE.** Use clamps or a vise to hold the workpiece when practical. A secured workpiece protects your hands and frees both hands to operate the machine.

20. **DO NOT OVERREACH.** Maintain stability and balance at all times when operating machine.

21. **MANY MACHINES CAN EJECT WORKPIECES TOWARD OPERATOR.** Know and avoid conditions that cause the workpiece to "kickback."

22. **STABLE MACHINE.** Machines that move during operations greatly increase the risk of injury and loss of control. Verify machines are stable/secure and mobile bases (if used) are locked before starting.

23. **CERTAIN DUST MAY BE HAZARDOUS** to the respiratory systems of people and animals, especially fine dust. Be aware of the type of dust you are exposed to and always wear a respirator designed to filter that type of dust.

24. **EXPERIENCING DIFFICULTIES.** If at any time you are experiencing difficulties performing the intended operation, stop using the machine! Contact our Technical Support Department at (570) 546-9663.

⚠WARNING

Additional Safety Instructions For Spindle Sanders

1. **BE AWARE OF SPINDLE** rotation when sanding.
2. **KEEP FINGERTIPS AWAY** from the moving spindle. Serious injury could result if skin contacts abrasives or moving parts.
3. **NEVER USE EXCESSIVE FORCE** when sanding. Doing this greatly increases the chances of personal injury and motor overload.
4. **ALWAYS FEED THE WORK** against the direction of rotation.
5. **EVEN IF YOU HAVE A RELIABLE METHOD OF DUST COLLECTION**, use a dust mask or respirator when sanding, as well as eye and ear protection.
6. **IF THERE IS ANY** doubt as to the stability or integrity of the material to be sanded, **don't sand it.**
7. **DO NOT OPERATE SANDER** with a damaged or badly worn sanding sleeve.
8. **TIE BACK LONG HAIR** and remove any loose-fitting clothing or jewelry that could be caught up in the sander's spindle or other moving machine parts.
9. **HABITS — GOOD OR BAD** — are hard to break. Develop good habits and safety will become second nature to you.

⚠WARNING

Like all power tools, there is danger associated with the Model G9922 Oscillating Spindle Sander. Accidents are frequently caused by lack of familiarity or failure to pay attention. Use this tool with respect and caution to lessen the possibility of operator injury. If normal safety precautions are overlooked or ignored, serious personal injury may occur.

⚠CAUTION

No list of safety guidelines can be complete. Every shop environment is different. Always consider safety first, as it applies to your individual working conditions. Use this and other machinery with caution and respect. Failure to follow guidelines could result in serious personal injury, damage to equipment or poor work results.

⚠WARNING

Operation of this equipment has the potential to propel debris into the air which can cause eye injury. Always wear safety glasses or goggles when operating equipment. Everyday glasses or reading glasses only have impact resistant lenses, they are not safety glasses. Be certain the safety glasses you wear meet the appropriate standards of the American National Standards Institute (ANSI).

SECTION 2: CIRCUIT REQUIREMENTS

110V Operation

⚠WARNING

Serious personal injury could occur if you connect the machine to power before completing the setup process. DO NOT connect the machine to the power until instructed later in this manual.

⚠WARNING

Electrocution or fire could result if machine is not grounded and installed in compliance with electrical codes. Compliance MUST be verified by a qualified electrician!

Full Load Amperage Draw

This machine draws the following amps under maximum load:

Amp Draw..... 4.6 Amps

Power Supply Circuit Requirements

You MUST connect your machine to a grounded circuit that is rated for the amperage given below. Never replace a circuit breaker on an existing circuit with one of higher amperage without consulting a qualified electrician to ensure compliance with wiring codes. **If you are unsure about the wiring codes in your area or you plan to connect your machine to a shared circuit, consult a qualified electrician.**

Minimum Circuit Size..... 15 Amps

Power Connection Device

The Model G9922 comes with a 5-15 plug, similar to **Figure 2**, to connect the machine to power.

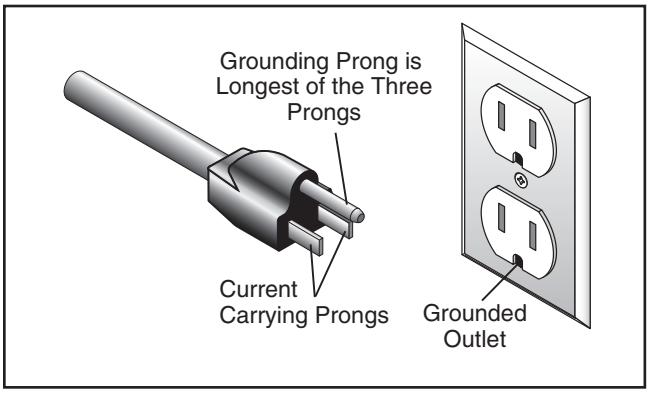
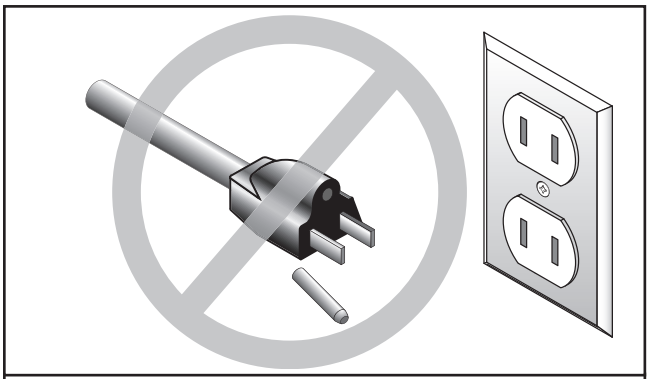


Figure 2. Typical 5-15 plug and receptacle.



⚠CAUTION

This machine MUST have a ground prong in the plug to help ensure that it is grounded. DO NOT remove ground prong from plug to fit into a two-pronged outlet! If the plug will not fit the outlet, have the proper outlet installed by a qualified electrician.

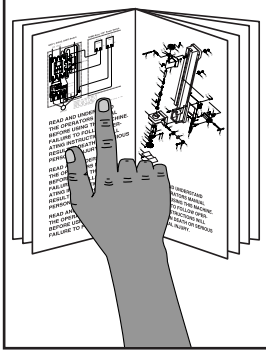
Extension Cords

We do not recommend using extension cords, but if you find it absolutely necessary:

- Use at least a 16 gauge cord that does not exceed 50 feet in length!
- The extension cord must have a ground wire and plug pin.
- A qualified electrician MUST size cords over 50 feet long to prevent motor damage.

SECTION 3: SETUP

Setup Safety



⚠WARNING

This machine presents serious injury hazards to untrained users. Read through this entire manual to become familiar with the controls and operations before starting the machine!

⚠WARNING

Wear safety glasses during the entire setup process!

⚠WARNING

This machine and its components are heavy. Get lifting help or use power lifting equipment such as a forklift to move heavy items.

Items Needed for Setup

The following items are needed to complete the setup process, but are not included with your machine:

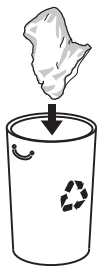
Description	Qty
• Assistant	1
• Safety Glasses (for each person)	1
• Wrench or Socket 10, 14mm	1 Ea.
• Phillips Screwdriver	1
• Level	1

Unpacking

Your machine was carefully packaged for safe transportation. Remove the packaging materials from around your machine and inspect it. If you discover the machine is damaged, *please immediately call Customer Service at (570) 546-9663 for advice.*

Save the containers and all packing materials for possible inspection by the carrier or its agent. *Otherwise, filing a freight claim can be difficult.*

When you are completely satisfied with the condition of your shipment, inventory the contents.



⚠WARNING

SUFFOCATION HAZARD!

Immediately discard all plastic bags and packing materials to eliminate choking/suffocation hazards for children and animals.

Inventory

The following is a description of the main components shipped with your machine. Lay the components out to inventory them.

Note: *If you can't find an item on this list, check the mounting location on the machine or examine the packaging materials carefully. Occasionally we pre-install certain components for shipping purposes.*

Box Contents: (Figures 3 & 4)	**Qty**
A. Miter Gauge	1
B. Open End Wrench 14/17mm	1
C. Open End Wrench 17/19mm	1
D. Hex Wrench 5mm	1
E. Carriage Bolts M8-1.25 x 16	20
F. Flat Washers 10mm	20
G. Lock Washers 8mm	20
H. Hex Nuts M8-1.25	20
I. Hex Nuts M6-1	4
J. Lock Washers 6mm	4
K. Rubber Feet	4
L. Phillips Head Screw M6-1 x 30	4
M. Sanding Drum w/Sleeve	1
N. Spare Sanding Sleeve	1
O. Upper Braces 14"	4
P. Lower Braces 20"	4
Q. Legs	4

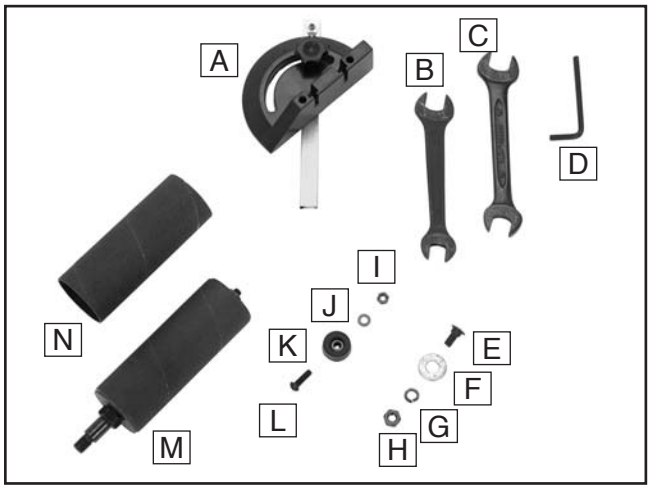


Figure 3. Inventory 1

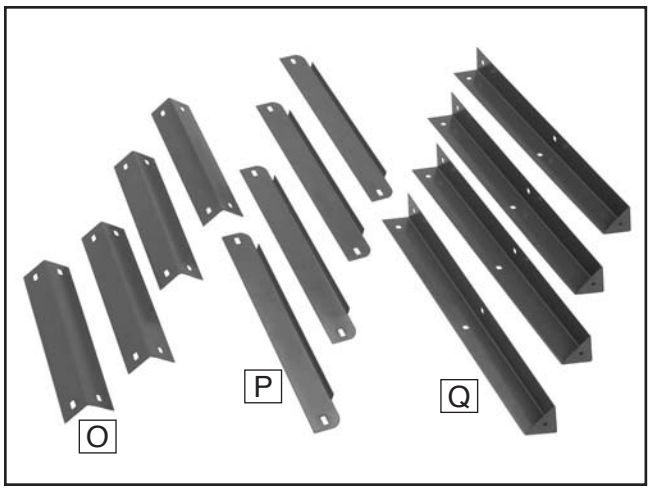
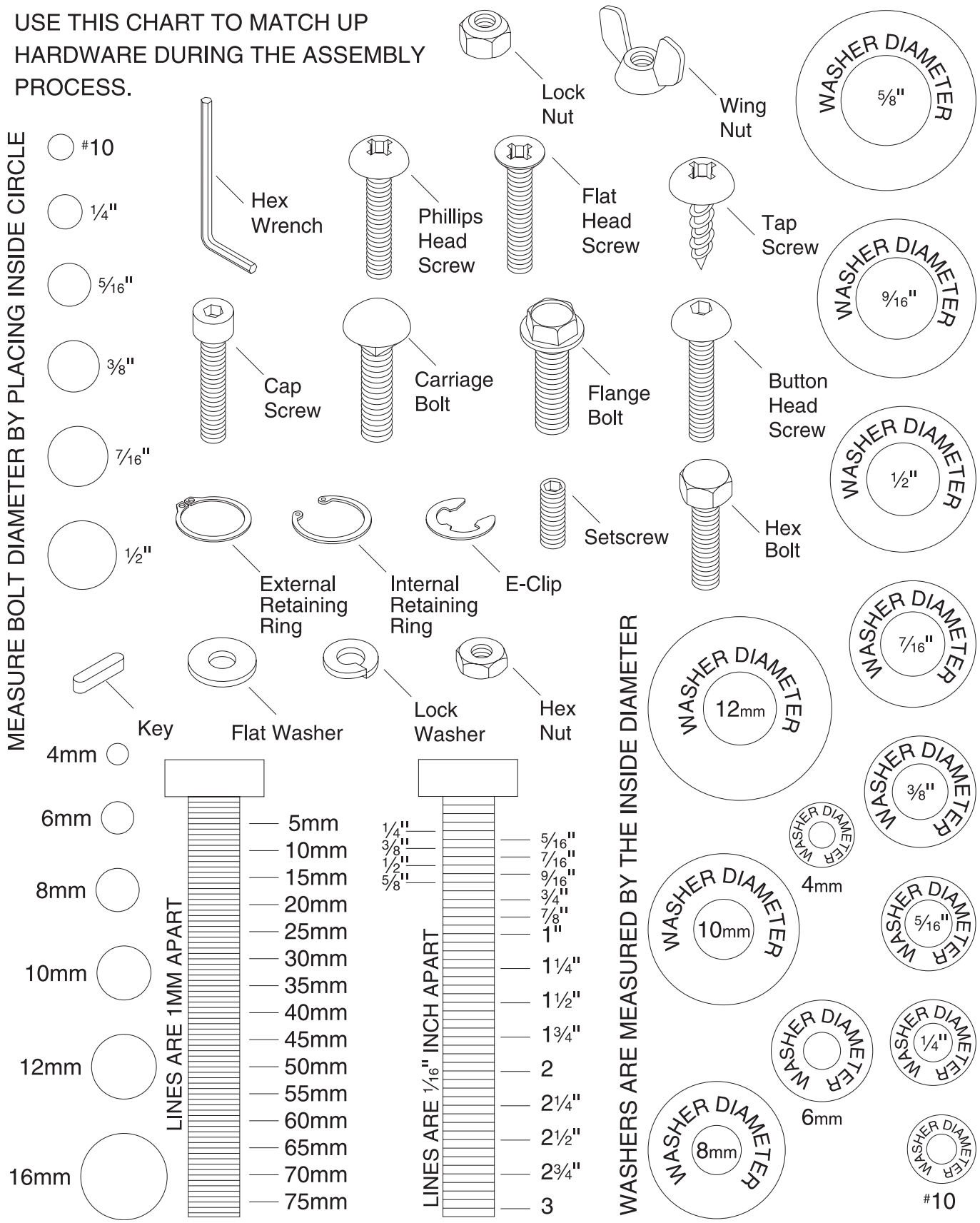


Figure 4. Inventory 2

If any nonproprietary parts are missing (e.g. a nut or a washer), we will gladly replace them; or for the sake of expediency, replacements can be obtained at your local hardware store.

Hardware Recognition Chart



Clean Up

The unpainted surfaces are coated with a waxy oil to prevent corrosion during shipment. Remove this protective coating with a solvent cleaner or degreaser, such as shown in **Figure 5**. For thorough cleaning, some parts must be removed. **For optimum performance from your machine, clean all moving parts or sliding contact surfaces.** Avoid chlorine-based solvents, such as acetone or brake parts cleaner that may damage painted surfaces. Always follow the manufacturer's instructions when using any type of cleaning product.

⚠WARNING

Gasoline and petroleum products have low flash points and can explode or cause fire if used to clean machinery. DO NOT use these products to clean the machinery.

⚠CAUTION

Many cleaning solvents are toxic if inhaled. Minimize your risk by only using these products in a well ventilated area.

G2544—Solvent Cleaner & Degreaser
A great product for removing the waxy shipping grease from your machine during clean up.

Figure 5. Cleaner/degreaser available from Grizzly.

Site Considerations

Floor Load

Refer to the **Machine Data Sheet** for the weight and footprint specifications of your machine. Some residential floors may require additional reinforcement to support both the machine and operator.

Placement Location

Consider existing and anticipated needs, size of material to be processed through each machine, and space for auxiliary stands, work tables or other machinery when establishing a location for your new machine. See **Figure 6** for the minimum working clearances.

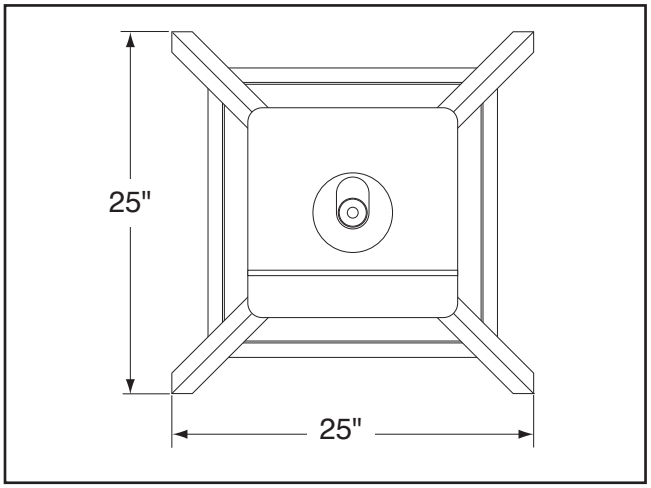
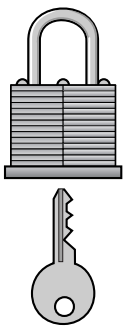


Figure 6. Minimum working clearances.



⚠CAUTION

Children and visitors may be seriously injured if unsupervised around this machine. Lock entrances to the shop or disable start switch or power connection to prevent unsupervised use.

Mounting to Shop Floor

Although not required, you may choose to mount your new machine to the floor. Because this is an optional step and floor materials may vary, floor mounting hardware is not included. Generally, you can either bolt your machine to the floor or mount it on machine mounts. Both options are described below. Whichever option you choose, it is necessary to level your machine with a precision level.

Bolting to Concrete Floors

Lag shield anchors with lag bolts and anchor studs (**Figure 7**) are two popular methods for anchoring an object to a concrete floor. We suggest you research the many options and methods for mounting your machine and choose the best that fits your specific application.

NOTICE

Anchor studs are stronger and more permanent alternatives to lag shield anchors; however, they will stick out of the floor, which may cause a tripping hazard if you decide to move your machine.

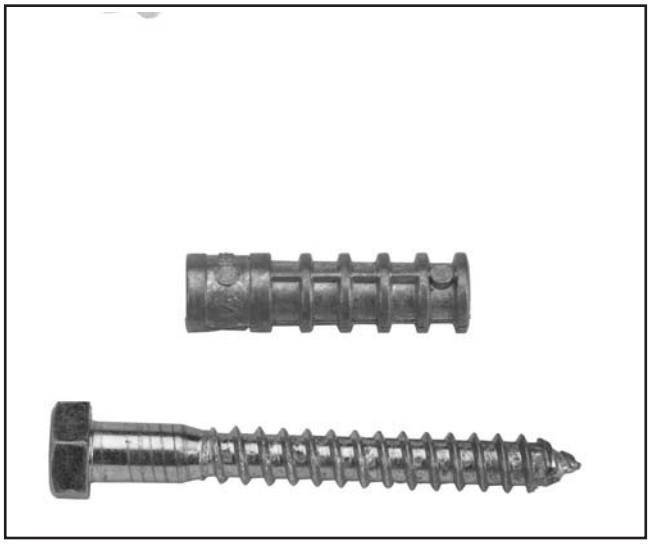


Figure 7. Typical fasteners for mounting to concrete floors.

Using Machine Mounts

Using machine mounts, shown in **Figure 8**, gives the advantage of fast leveling and vibration reduction. The large size of the foot pads distributes the weight of the machine to reduce strain on the floor.

Figure 8. Machine mount example.

NOTICE

We strongly recommend securing your machine to the floor if it is hardwired to the power source. Consult with your electrician to ensure compliance with local codes.

Assembly

Assembly for the Model G9922 consists of putting together the machine stand, attaching the machine to the stand, then inserting the sanding spindle.

To assemble the machine:

1. Lay out two legs, one upper brace and one lower brace, then connect them using four M8-1.25 x 16 carriage bolts, four 10mm flat washers, four 8mm lock washers, and four M8-1.25 hex nuts, as shown in **Figure 9**. Do not yet fully tighten the nuts.

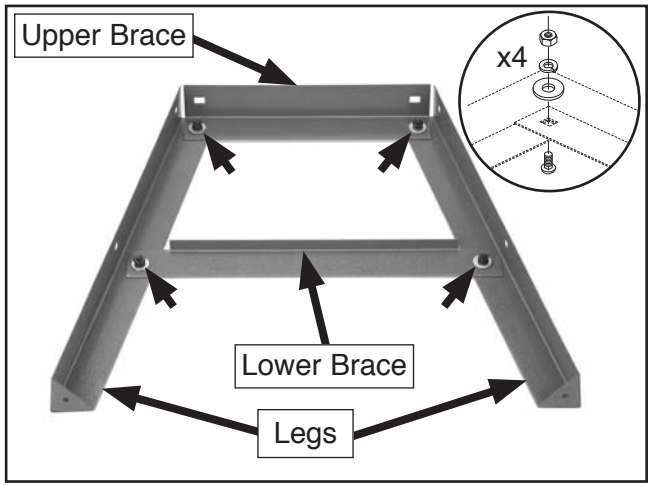


Figure 9. Leg assembly.

2. Repeat **Step 1** to create a second assembly.

3. Connect the two assemblies together with one lower and one upper brace, using four M8-1.25 x 16 carriage bolts, four 10mm flat washers, four 8mm lock washers, and four M8-1.25 hex nuts, as shown in **Figure 10**. Do not yet fully tighten the nuts.

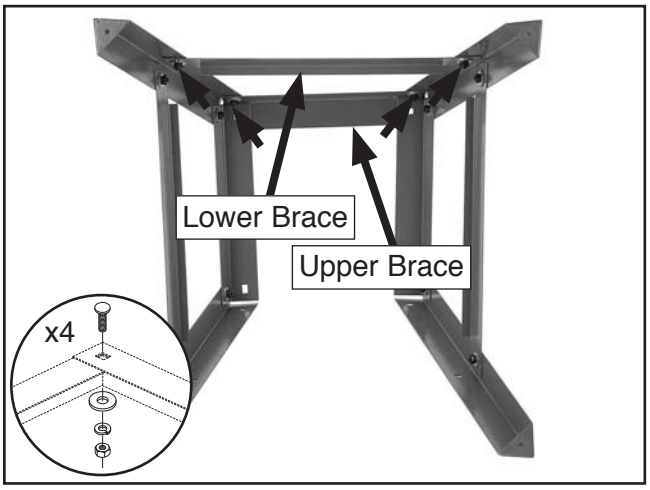


Figure 10. Connecting leg assemblies.

4. Carefully turn the assembly over and attach the remaining upper and lower braces. Again, use four M8-1.25 x 16 carriage bolts, four 10mm flat washers, four 8mm lock washers, and four M8-1.25 hex nuts, as shown in **Figure 11**. Do not yet fully tighten the nuts.

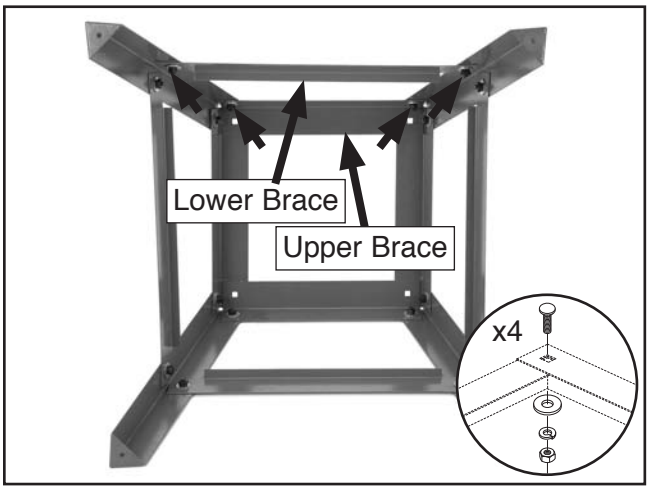


Figure 11. Completing stand.

Note: *The next step involves mounting feet on the machine. If you plan to mount your machine to the floor, skip ahead to* ***Step 6****. Otherwise, continue with* ***Step 5****, below.*

5. On each of the four legs, install a rubber foot by removing the hex nut and washers from the foot assembly, inserting the foot into the hole at the bottom of the leg, then securing the foot with the removed washers and nut, as shown in **Figure 12**.

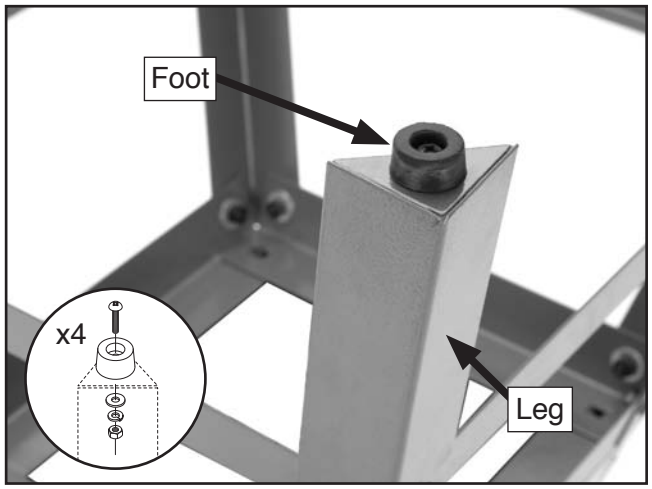


Figure 12. Foot attachment.

6. With the help of an assistant, carefully turn the sander upside-down. To protect the table surface, place a piece of clean cardboard beneath the sander. Place the stand upside down on top of the sander, as shown in **Figure 13**.

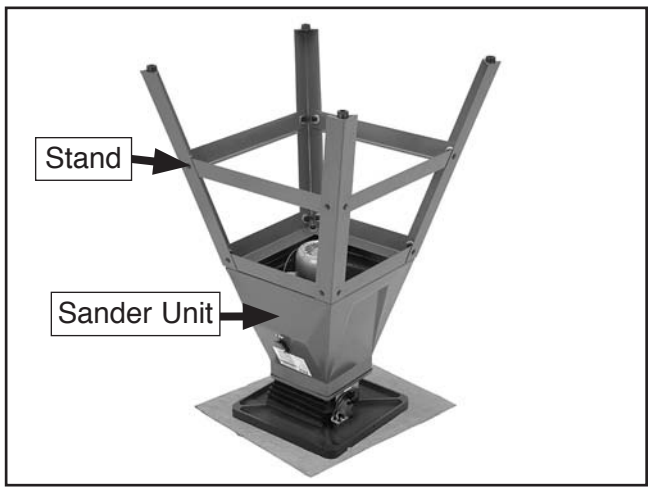


Figure 13. Placing stand on machine.

7. In each corner of the sander base, line up the holes in the sander and both upper braces, then insert one M8-1.25 x 16 carriage bolt, as shown in **Figure 14**. Secure it with a 10mm washer, 8mm lock washer, and one M8-1.25 hex nut. Do not yet fully tighten the hardware.

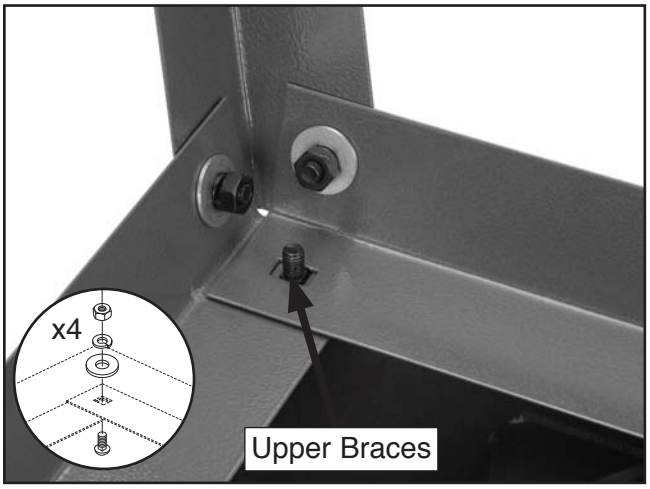


Figure 14. Mounting hardware.

8. Repeat **Step 6** for each corner of the sander, using the remaining three M8-1.25 x 16 carriage bolts, 10mm flat washers, 8mm lock washers and M8-1.25 hex nuts.

9. With the help of an assistant, turn the entire assembly right-side-up and place it in the location where it will be used. Level the machine as you fully tighten all 20 hex nuts (**Figure 15**).

Figure 15. Tightening hardware.

10. Place the sanding drum into the spindle and thread it by turning it counterclockwise (**Figure 16**).

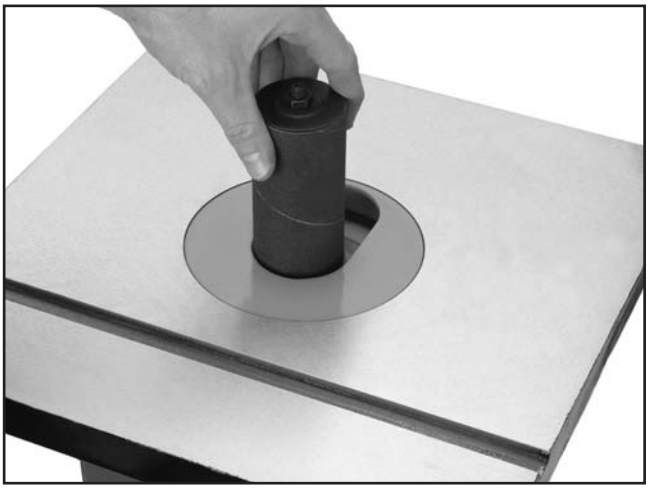


Figure 16. Inserting sanding drum.

11. To easily access the spindle nut, move the dust cover out of the way by removing the two hex bolts that secure it to the machine base (**Figure 17**).

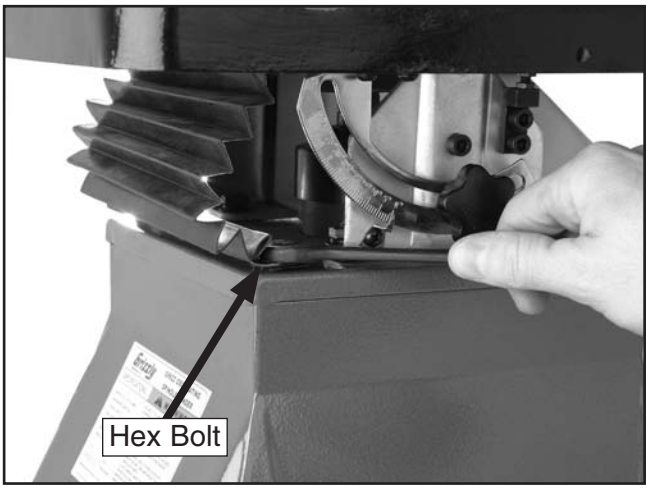


Figure 17. Removing dust cover.

12. Secure the sanding drum into the spindle by holding the spindle stationary with a 17mm wrench while tightening the drum with a 19mm wrench, as shown in **Figure 18**.

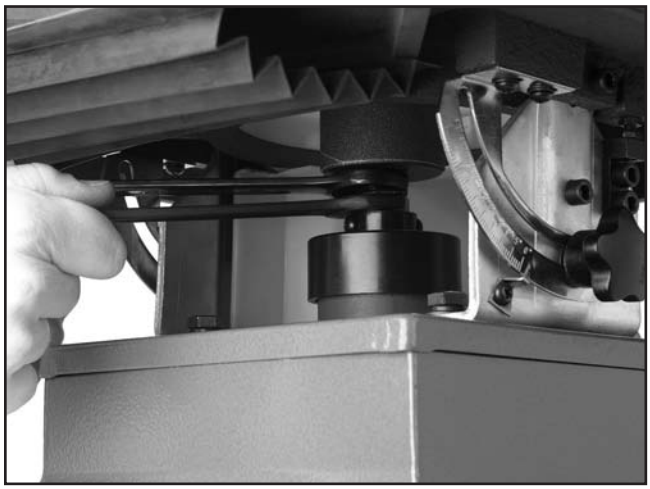


Figure 18. Securing sanding drum.

Test Run

Once the assembly is complete, test run your machine to make sure it runs properly and is ready for regular operation.

The test run consists of verifying the following: 1) The motor powers up and runs correctly, and 2) the safety disabling mechanism on the switch works correctly.

If, during the test run, you cannot easily locate the source of an unusual noise or vibration, stop using the machine immediately, then review **Troubleshooting** on **Page 29**.

If you still cannot remedy a problem, contact our Tech Support at (570) 546-9663 for assistance.

To test run the machine:

1. Make sure you have read the safety instructions at the beginning of the manual and that the machine is setup properly.

2. Make sure all tools and objects used during setup are cleared away from the machine.

3. Connect the machine to the power source.

4. Verify that the machine is operating correctly by turning the machine ***ON***.

—When operating correctly, the machine runs smoothly with little or no vibration or rubbing noises.

—Investigate and correct strange or unusual noises or vibrations before operating the machine further. Always disconnect the machine from power when investigating or correcting potential problems.

5. Turn the machine ***OFF***.

6. Remove the switch disabling key, as shown in **Figure 19**.

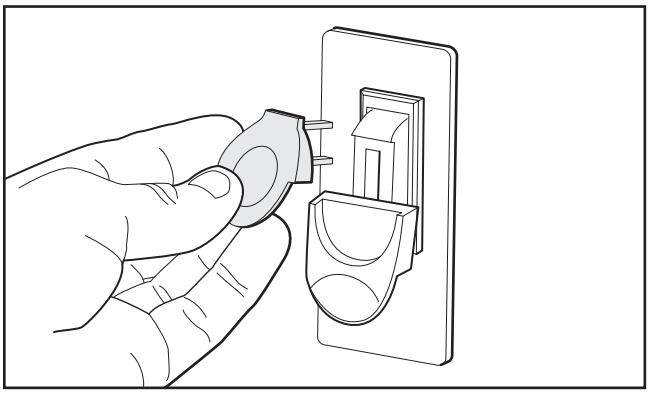


Figure 19. Removing switch key from paddle switch.

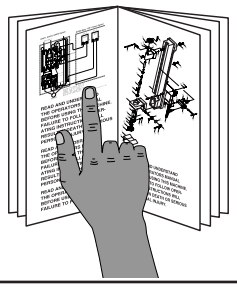
7. Try to turn the start the machine with the paddle switch.

—If the machine does not start, the switch disabling feature is working as designed.

—If the machine starts, immediately stop the machine. The switch disabling feature is not working correctly. This safety feature must work properly before proceeding with regular operations. Call Tech Support for help.

SECTION 4: OPERATIONS

Operation Safety

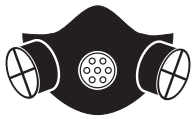


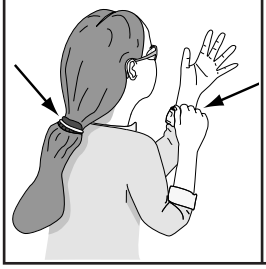
⚠WARNING

To reduce the risk of serious injury when using this machine, read and understand this entire manual before beginning any operations.

⚠WARNING

Damage to your eyes and lungs could result from using this machine without proper protective gear. Always wear safety glasses and a respirator when operating this machine.





⚠WARNING

Loose hair, clothing, or jewelry could get caught in machinery and cause serious personal injury. Keep these items away from moving parts at all times to reduce this risk.

NOTICE

If you have never used this type of machine or equipment before, WE STRONGLY RECOMMEND that you read books, trade magazines, or get formal training before beginning any projects. Regardless of the content in this section, Grizzly Industrial will not be held liable for accidents caused by lack of training.

Basic Controls

Use the descriptions and figures below to become familiar with the basic controls of your machine.

ON/OFF Switch: Turns machine ***ON***/***OFF***.

Table Tilt Lock Knob: Frees/Locks the table tilt.

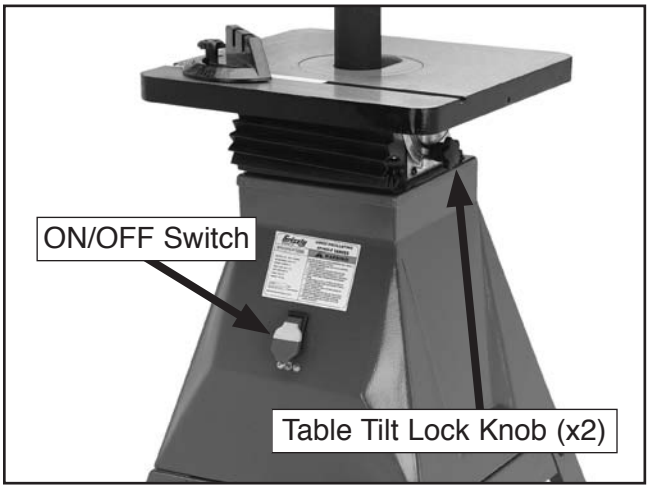


Figure 20. Basic controls.

Miter Gauge: Allows workpiece sanding at specific angles. Ideal for sanding straight edges on miter-cut workpieces.

Miter Gauge Lock Knob: Locks the miter gauge at the current angle.

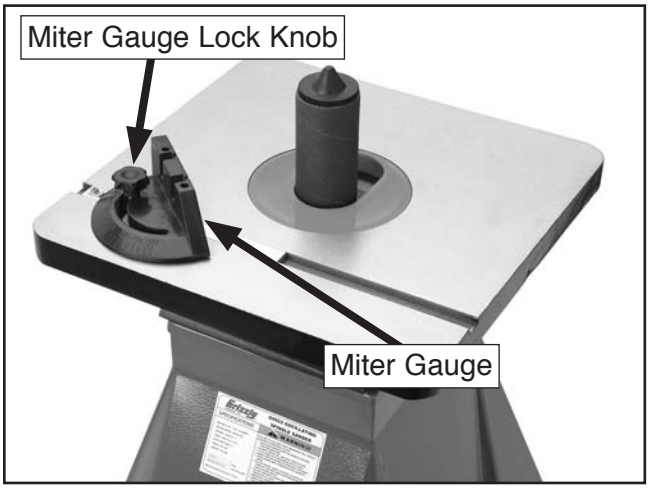


Figure 21. Miter gauge controls.

Table Tilt

The table on the Model G9922 can be tilted up to 45° for sanding beveled edges.

To tilt the table:

1. DISCONNECT SANDER FROM POWER!

2. Loosen the two lock knobs, located on each side of the table tilt assembly (**Figure 22**).

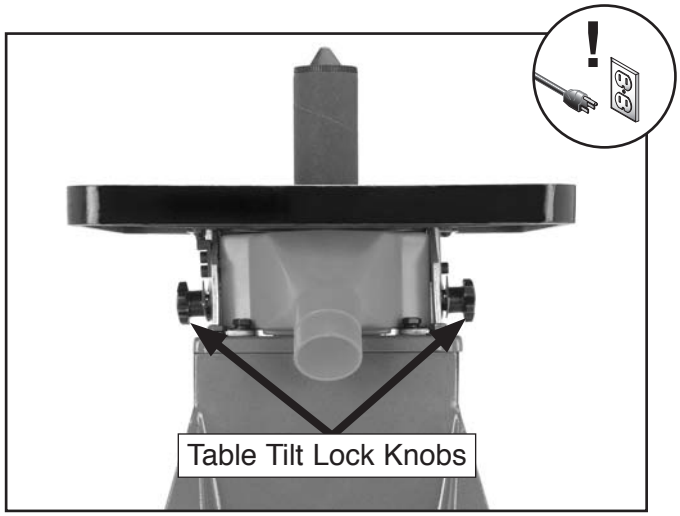


Figure 22. Table lock knobs.

3. Adjust the table to the desired angle using the angle gauge as a guide. Once the angle is set, tighten both lock knobs (**Figure 23**).

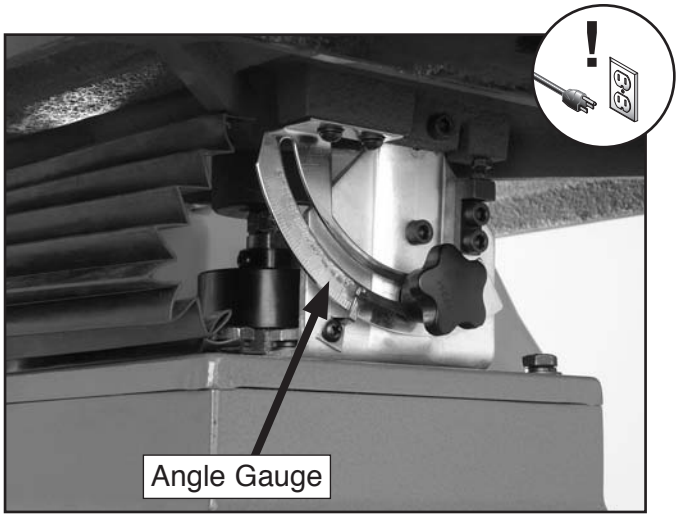


Figure 23. Adjusting angle.

Note: *The angle gauge is only for approximate angle measurements. For precise angle setting, use an adjustable angle finder between the table and sanding drum.*

0° Table Stop

The Model G9922 has a 0° table stop that lets you easily set the table tilt back to 0º for sanding square edges.

To set the 0° stop:

1. DISCONNECT SANDER FROM POWER!

2. Loosen the jam nut and turn the stop bolt several turns clockwise (**Figure 24**).

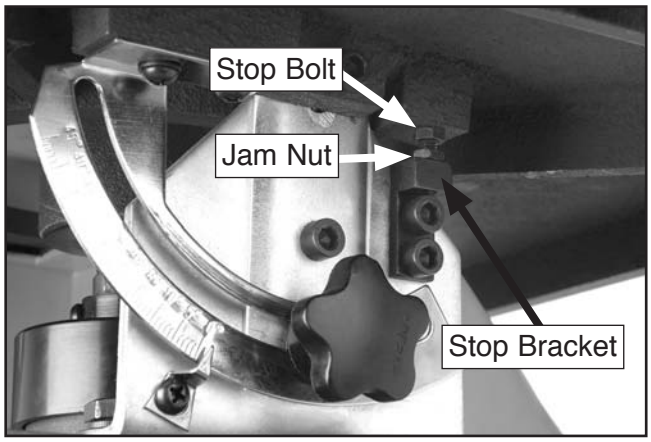


Figure 24. 0° stop.

3. Use a square to set the table perpendicular to the sanding drum, then securely tighten both lock knobs (**Figure 25**).

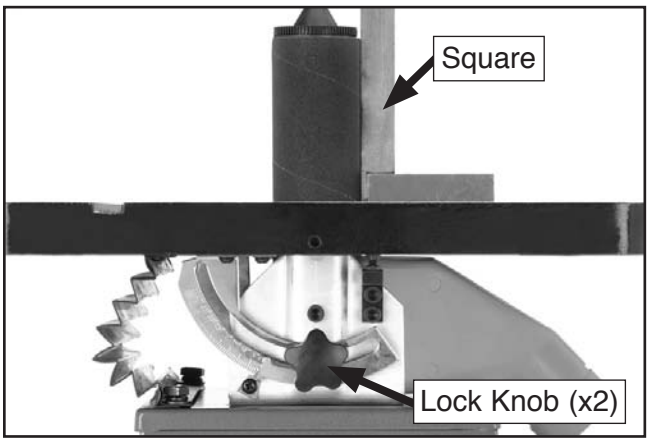


Figure 25. Squaring table to drum.

4. Turn the stop bolt until it just touches the bottom of the table. Then, without turning the stop bolt, tighten the jam nut against the stop bracket.

Contour Sanding

To sand a workpiece:

1. DISCONNECT SANDER FROM POWER!

2. Adjust the table tilt, if desired.

3. Ensure that the spindle hex nut is secured tightly and that the work area is free of obstructions and obstacles.

4. Connect the sander to power, turn ***ON*** the spindle sander and allow it to reach full speed.

5. Using both hands, guide the workpiece against the sanding sleeve, as shown in **Figure 26**, always working against the direction of rotation. DO NOT force the workpiece against the sanding drum.

Figure 26. Sanding.

⚠CAUTION

This sander creates substantial amount of wood dust while operating. Failure to wear a respirator rated for wood dust and use an adequate dust collection system when operating this machine can result in short and long-term respiratory illness.

Miter Gauge

The Model G9922 includes a miter gauge that can be used for sanding miter-cut edges at angles from -60° to 60º.

To use the miter gauge:

1. DISCONNECT SANDER FROM POWER!

2. Place the miter gauge into the slot in the table.

3. Loosen the miter gauge lock knob. Twist the miter gauge until the desired angle is indicated, then tighten the lock knob (**Figure 26**).

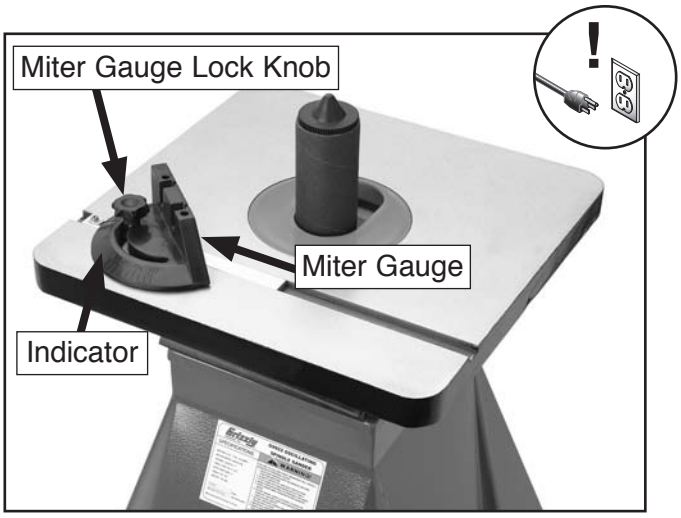


Figure 27. Miter gauge.

4. Place the workpiece on the table against the miter gauge. Make sure there is clearance between the sanding drum and the workpiece.

5. Connect the sander to power and turn the sander ***ON***.

6. Hold the workpiece flat on the table and against the miter gauge, and begin sliding the gauge back and forth in the slot on the table. At the same time, gradually move the workpiece into the sanding drum (**Figure 28**).

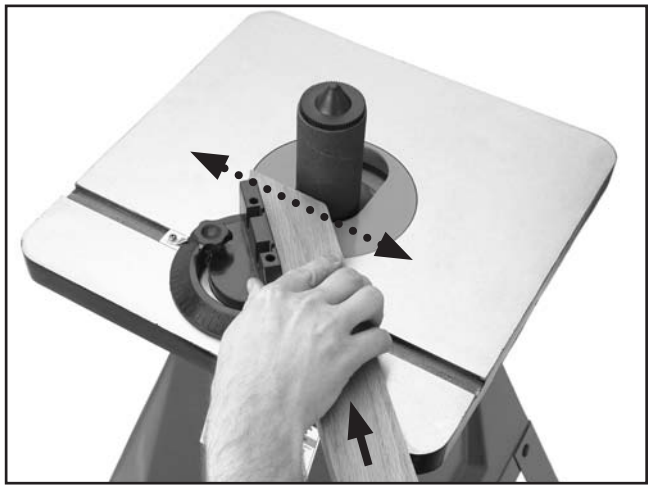


Figure 28. Workpiece placement.

7. Continue sliding the miter gauge back and forth while applying slight pressure against the sanding drum. Once sanding is complete, slide the miter gauge away from the drum, and turn the sander ***OFF***.

Sanding Sleeve

The sanding sleeves on the Model G9922 can be replaced when they become worn or damaged.

To replace sanding sleeves:

1. DISCONNECT SANDER FROM POWER!

2. Use a 19mm wrench on the sanding drum base nut to keep the spindle from turning (**Figure 29**).

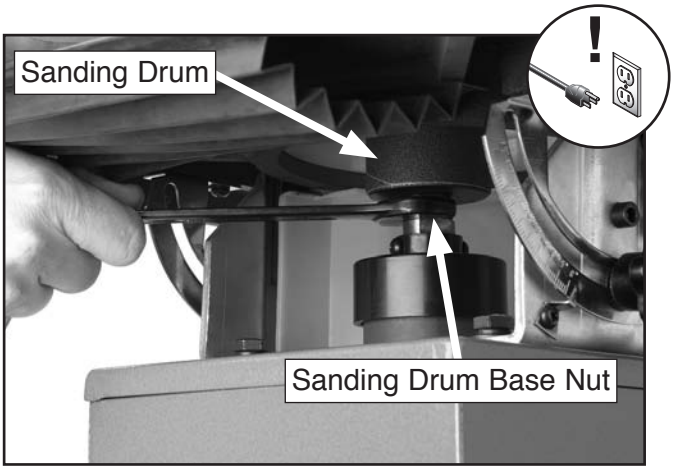


Figure 29. Securing spindle.

3. Remove the plastic cap from the sanding drum. It has left-hand threads and unscrews clockwise (**Figure 30**).

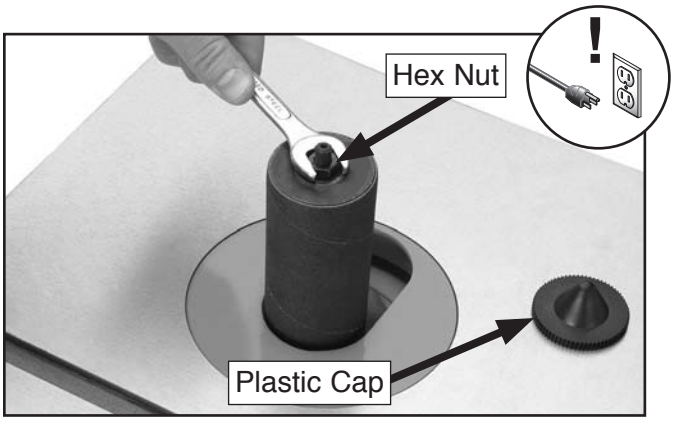


Figure 30. Loosening nut.

4. Loosen the hex nut until the sanding sleeve can slide off the drum. The hex nut has left-hand threads and unscrews clockwise.

5. Slide the new sleeve over the drum, then tighten the hex nut and replace the plastic cap.

SECTION 5: ACCESSORIES

T20501—Face Shield, 4" Crown, Clear
T20502—Face Shield, 7" Crown, Clear
T20448—Economy Clear Safety Glasses
T20452—"Kirova" Anti-Reflective Glasses
T20456—"Dakura" Clear Safety Glasses
H0736—Shop Fox® Safety Glasses
These glasses meet ANSI Z87.1-2003 specifications. Buy extras for visitors or employees. You can't be too careful with shop safety!

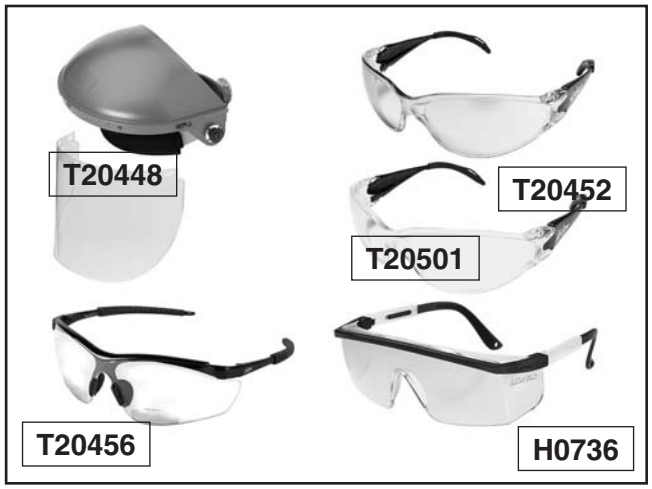


Figure 31. Our most popular eye protection.

T20514—Small Half-Mask Respirator
T20515—Medium Half-Mask Respirator
T20516—Large Half-Mask Respirator
T20511—Pre-Filter P100
T20539—Cartridge Filter 2PK P100
T20541—Cartridge Filter 2PK P100 & O Vapor
Wood and other types of dust can cause severe respiratory damage. If you work around dust everyday, a half-mask respirator can greatly reduce your risk. Compatible with safety glasses!

Figure 32. Half-mask respirator with disposable cartridge filters.

PRO-STICK® Abrasive Surface Cleaners
Extend the life of your sanding discs and sleeves! Choose the Pro-Stick® with a handle for greater control or without a handle for more usable area.

Size	Model
1½" X 1½" X 8½"	G1511
2" X 2" X 12"	G1512
1½" X 1½" X 9" with Handle	G2519
2" X 2" X 11" with Handle	G2520

Figure 33. PRO-STICK® abrasive cleaners.

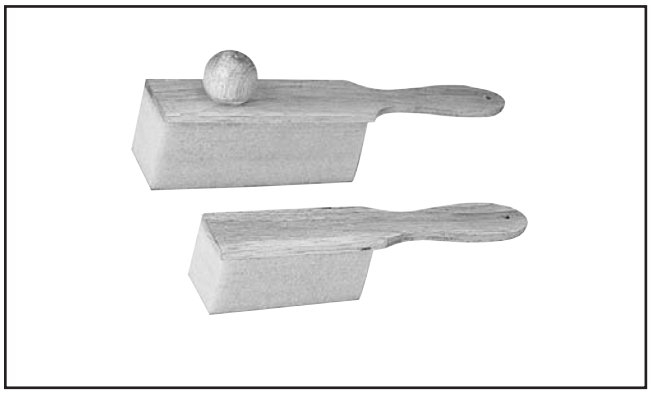


Figure 34. PRO-STICK® cleaners with handles.

G7314—Heavy-Duty SHOP FOX® Mobile Base
Make your machine mobile with this popular patented mobile base. The unique outrigger type supports increase stability and lower machine height. This heavy duty mobile base is rated for up to a 600 lb. capacity.

Figure 35. G7314 SHOP FOX® Mobile Base.

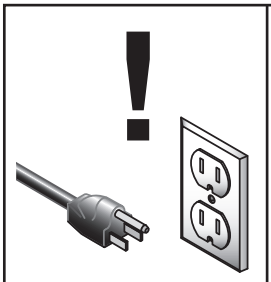
G7160—Machine Mounts
For heavy machine stabilization, these mounts feature fast leveling and vibration reduction. Large rubber foot pads distribute weight and long mounting studs provide a wide range of leveling adjustment.

Figure 36. G7160 Machine Mount.

3-Pack Sanding Sleeves
H1474—2" x 5¼" 60 Grit
H1475—2" x 5¼" 80 Grit
H1476—2" x 5¼" 100 Grit
H1477—2" x 5¼" 120 Grit
H1478—2" x 5¼" 150 Grit
These aluminum oxide sanding sleeves are a direct replacement for the Model G9922 Oscillating Spindle Sander. Available in 60-150 grit.

Figure 37. 3-Pack Sanding Sleeves.

SECTION 6: MAINTENANCE



⚠WARNING

Always disconnect power to the machine before performing maintenance. Failure to do this may result in serious personal injury.

Schedule

For optimum performance from your machine, follow this maintenance schedule and refer to any specific instructions given in this section.

Daily Check:
- Loose mounting bolts.
- Damaged sanding sleeve.
- Worn or damaged wires.
- Loose sanding spindle or sleeve.
- Any other unsafe condition.
- Clean the machine.

Monthly Check:
- Lubricate the table tilt assembly.

Cleaning

Cleaning the Model G9922 is relatively easy. Vacuum excess wood chips and sawdust, and wipe off the remaining dust with a dry cloth. If any resin has built up, use a resin dissolving cleaner to remove it. Treat all unpainted cast iron and steel with a non-staining lubricant after cleaning.

Unpainted Cast Iron

Protect the unpainted cast iron surfaces on the table by wiping the table clean after every use—this ensures moisture from wood dust does not remain on bare metal surfaces.

Keep tables rust-free with regular applications of products like G96® Gun Treatment, SLIPIT®, or Boeshield® T-9.

Lubrication

The bearings in the motor are shielded, permanently lubricated and require no maintenance.

Every month, the table tilt assembly should be greased to prevent corrosion and keep the table moving freely.

Table Tilt Assembly

1. DISCONNECT SANDER FROM POWER!

2. Apply a light layer of multipurpose grease to the areas indicated in **Figure 38** and to the corresponding areas on the other side of the table tilt assembly. Tilt the table several times to disperse the grease.

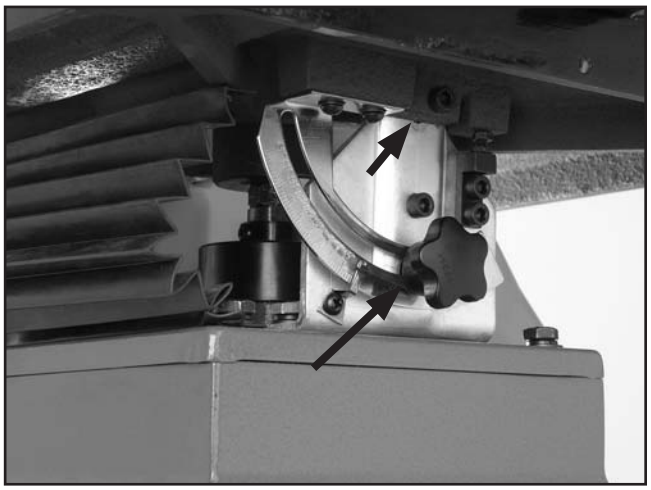


Figure 38. Table tilt grease points.

Ball Oiler (Figure 39)

Lubricate the ball oilers after every 2 hours of use. Use a manual oiler (oil can) filled with ISO 68 or SAE 30W non-detergent oil. Make sure to clean the outside of the ball oiler before and after each use to keep out contaminants.

To lubricate the ball oiler:

1. DISCONNECT SANDER FROM POWER!

2. Look towards the spindle shaft behind the rubber dust cover (**Figure 39**).

   —If you can see the ball oiler, skip ahead to **Step 4**.

   —If you cannot see the ball oiler, proceed to **Step 3**.

3. Rotate the sanding drum by hand until it moves up enough to expose the ball oiler.

4. Insert the tip of the oil can into the ball oiler. Depress the ball with the tip of the oil can nozzle and squirt a little oil inside the fitting.

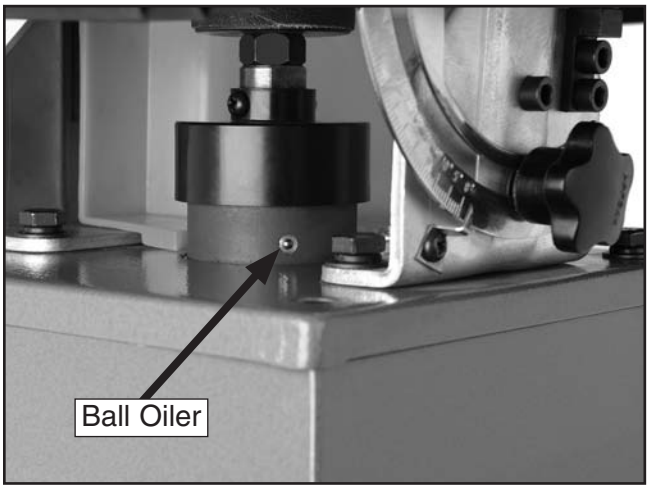
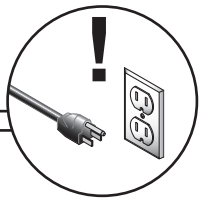


Figure 39. Ball Oiler (dust cover removed for clarity).

SECTION 7: SERVICE

Review the troubleshooting and procedures in this section to fix or adjust your machine if a problem develops. If you need replacement parts or you are unsure of your repair skills, then feel free to call our Technical Support at (570) 546-9663.

Troubleshooting



Motor & Electrical

Symptom	Possible Cause	Possible Solution
Motor will not start.	1. Disabling key removed. 2. Open circuit in motor or loose connections. 3. ON/OFF switch at fault.	1. Insert disabling key. 2. Inspect all lead connections on motor for loose or open connections. 3. Test/Replace switch.
Motor will not start; fuses or circuit breakers blow.	1. Short circuit in line cord or plug. 2. Short circuit in motor or loose connections. 3. Incorrect fuses or circuit breakers in power line.	1. Inspect cord or plug for damaged insulation and shorted wires. 2. Inspect all connections on motor for loose or shorted terminals or worn insulation. 3. Install correct fuses or circuit breakers.
Motor Overheats	1. Motor overloaded. 2. Air circulation through the motor restricted.	1. Reduce load on motor. 2. Clean off motor to provide normal air circulation.
Motor stalls (resulting in blown fuses or tripped circuit).	1. Short circuit in motor or loose connections. 2. Low voltage. 3. Incorrect fuses or circuit breakers in power line. 4. Motor overloaded.	1. Inspect connections on motor for loose or shorted terminals or worn insulation. 2 Correct the low voltage conditions. 3. Install correct fuses or circuit breakers. 4. Reduce load on motor.
Machine slows down when operating.	1. Applying too much pressure to workpiece.	1. Feed workpiece slower with less pressure.

Sanding Operations

Symptom	Possible Cause	Possible Solution
Deep sanding grooves or scars in workpiece.	1. Sanding sleeve too coarse for the desired finish. 2. Workpiece sanded across the grain. 3. Too much sanding force on workpiece.	1. Use a finer grit sanding sleeve. 2. Sand with the grain. 3. Reduce pressure on workpiece while sanding.
Grains rub off the sanding sleeve.	1. Sanding sleeve has been stored in an incorrect environment. 2. Sanding sleeve has been folded or smashed.	1. Store sanding sleeve away from extremely temperature and humidity. 2. Store sanding sleeves separately and not folded or flat.
Sanding surfaces clog quickly or burn.	1. Too much pressure against sleeve. 2. Sanding softwood.	1. Reduce pressure on workpiece while sanding. 2. Use different stock. Or, accept the characteristics of the stock and plan on cleaning/replacing belts frequently.

Wiring Diagram

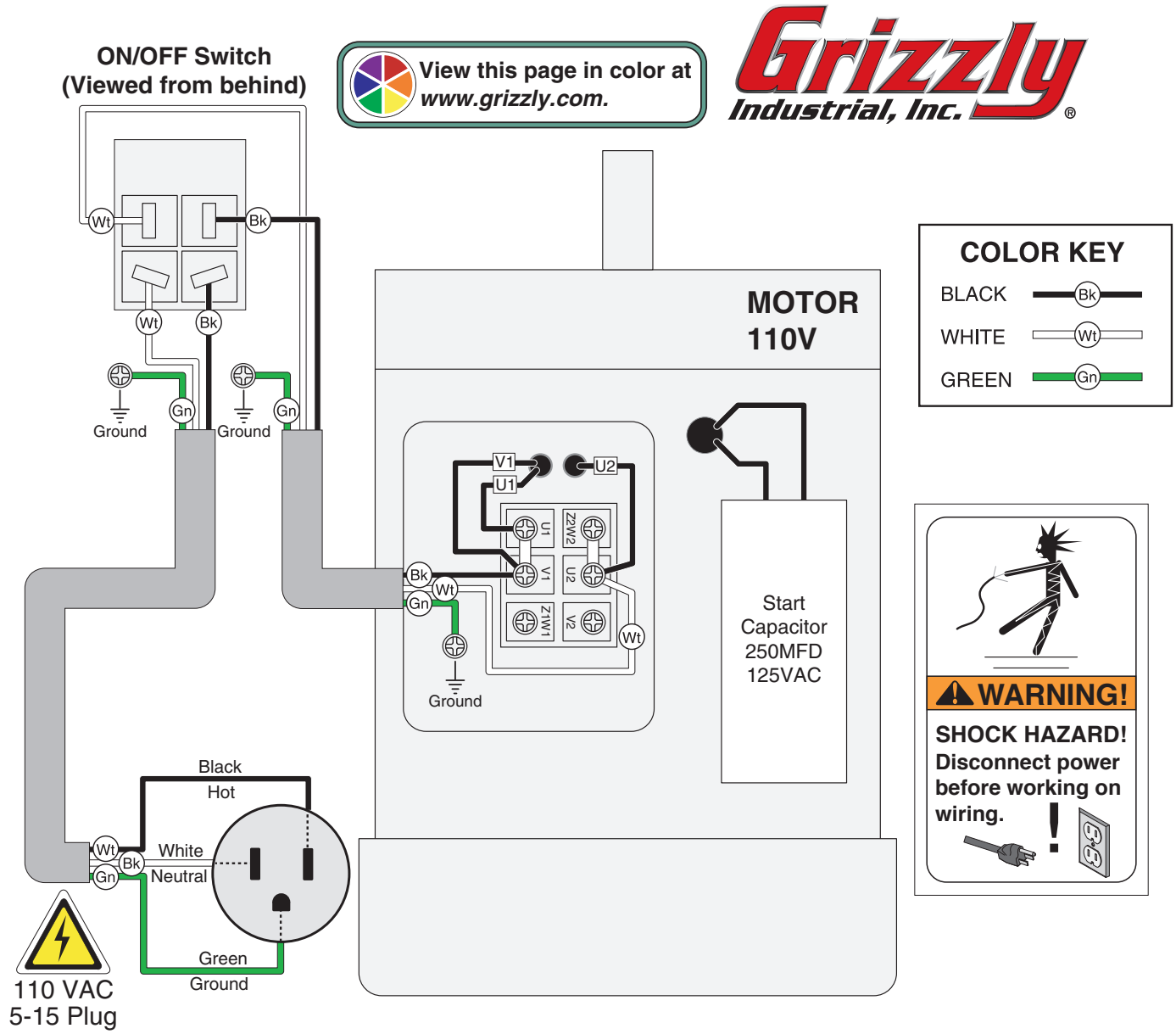
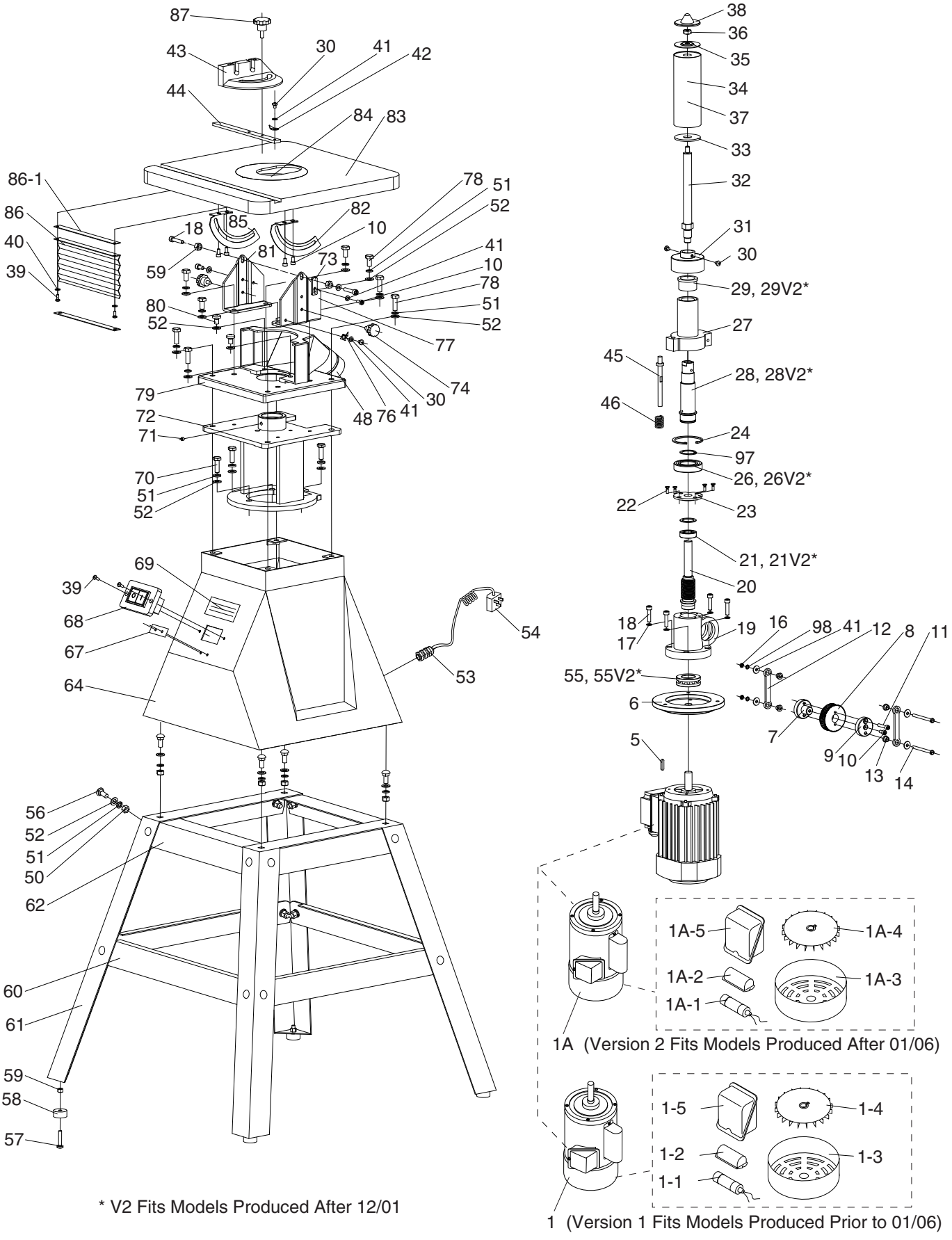


Figure 40. Motor wiring.

Figure 41. ON/OFF Switch wiring.

Parts Breakdown



* V2 Fits Models Produced After 12/01

Parts List

REF	PART #	DESCRIPTION
5	P9922005	FLAT KEY 100 x 356 x 2
6	P9922006	CONNECTION PLATE
7	P9922007	WORM GEAR SHAFT
8	P9922008	PINION GEAR
9	P9922009	END COVER OF WORM GEAR
10	PB96M	HEX BOLT M5-.8 X 10
11	PB149M	HEX BOLT M5-.8 X 25
12	P9922012	CONNECTING BAR
13	P9922013	FLANGE BUSHING
14	P9922014	SPECIAL SCREW 110 x 88 x 78
16	PN06M	HEX NUT M5-.8
17	PN03M	HEX NUT M8-1.25
18	PB10M	HEX BOLT M6-1 X 25
19	P9922019	BEARING BASE
20	P9922020	WORM SHAFT
21	P9922021	BALL BEARING 102
21V2	P6002ZZ	BALL BEARING 6002ZZ V2.12.01
22	PCAP17M	CAP SCREW M4-.7 X 10
23	P9922023	COVER
24	PR26M	INT RETAINING RING 52MM
26	P9922026	BEARING 80106
26V2	P6006ZZ	BALL BEARING 6006ZZ V2.12.01
27	P9922027	SPINDLE SLEEVE STABILIZER
28	P9922028	SPINDLE
28V2	P9922028V2	SPINDLE V2.12.01
29	P9922029	NEEDLE BEARING 4084103
29V2	P9922029V2	BABBITT BEARING V2.12.01
30	PCAP97M	CAP SCREW M5-.8 X 6
31	P9922031	DUST COVER
32	P9922032	SANDING DRUM SHAFT
33	P9922033	SPECIAL WASHER 50 x 23.25
34	P9922034	SANDING DRUM
35	P9922035	PAD
36	P9922036	SPECIAL NUT 206 x 206 x 12
37	P9922037	SANDING SLEEVE
38	P9922038	TOP CAP
39	PCAP17M	CAP SCREW M4-.7 X 10
40	PW05M	FLAT WASHER 4MM
41	PW02M	FLAT WASHER 5MM
42	P9922042	MITER ANGLE POINTER
43	P9922043	MITER GAUGE
44	P9922044	LOCK PIN
45	P9922045	SHAFT
46	P9922046	COMPRESSION SPRING 190 X 16 X 5.5
48	P9922048	DUST COLLECTOR NOZZLE
50	PN03M	HEX NUT M8-1.25
51	PLW04M	LOCK WASHER 8MM
52	PW04M	FLAT WASHER 10MM
53	P9922053	WIRE STRAIN RELIEF
54	P9922054	POWER CORD 16-GAUGE 3-WIRE 73"
55	P9922055	BEARING 8205

REF	PART #	DESCRIPTION
55V2	P6005ZZ	BALL BEARING 6005ZZ V2.12.01
56	PCAP11M	CAP SCREW M8-1.25 X 16
57	PS62M	PHLP HD SCR M6-1 X 30
58	P9922058	RUBBER PAD
59	PN01M	HEX NUT M6-1
60	P9922060	LOWER BRACE
61	P9922061	LEG
62	P9922062	UPPER BRACE
64	P9922064	MACHINE BASE
67	P9922067	GROUND LABEL
68	PSW06	PADDLE SWITCH 110/220V WITH KEY
69	P9922069	MACHINE ID LABEL
70	PB07M	HEX BOLT M8-1.25 X 25
71	P9922071	BALL OILER
72	P9922072	BASE PLATE
73	P9922073	LOCK BLOCK
74	P9922074	KNOB M6-1 X 10
75	PW03M	FLAT WASHER 6MM
76	P9922076	TABLE TILT POINTER
77	P9922077	RIGHT BRACKET
78	PB03M	HEX BOLT M8-1.25 X 16
79	P9922079	FACEPLATE
80	PB06M	HEX BOLT M8-1.25 X 12
81	P9922081	LEFT BRACKET
82	P9922082	ANGLE BRACKET W/GAUGE
83	P9922083	WORK TABLE
84	P9922084	TABLE INSERT
85	P9922085	ANGLE BRACKET W/O GAUGE
86	P9922086	DUST COVER
86-1	P9922086-1	DUST COVER BRACKET
87	P9922087	MITER GAUGE KNOB
97	P9922097	SPACER
98	PLW01M	LOCK WASHER 5MM

VER. 1—MODELS PRODUCED BEFORE 01/2006

REF	PART #	DESCRIPTION
1	P9922001	FACE MOUNT MOTOR 1/2 HP V1.11.00
1-1	P9922001-1	450 V CAPACITOR V1.11.00
1-2	P9922001-2	CAPACITOR COVER V1.11.00
1-3	P9922001-3	MOTOR FAN COVER V1.11.00
1-4	P9922001-4	MOTOR FAN V1.11.00
1-5	P9922001-5	JUNCTION BOX V1.11.00

VER. 2—MODELS PRODUCED AFTER 01/2006

REF	PART #	DESCRIPTION
1A	P9922001A	FACE MOUNT MOTOR 1/2HP V2.01.06
1A-1	PC250A	S CAPACITOR 250MFD 125VAC V2.01.06
1A-2	P9922001A-2	CAPACITOR COVER V2.01.06
1A-3	P9922001A-3	MOTOR FAN COVER V2.01.06
1A-4	P9922001A-4	MOTOR FAN V2.01.06
1A-5	P9922001A-5	JUNCTION BOX V2.01.06

Grizzly Industrial, Inc. WARRANTY CARD

Name _____

Street _____

City _____ State _____ Zip _____

Phone # _____ Email _____ Invoice # _____

Model # _____ Order # _____ Serial # _____

The following information is given on a voluntary basis. It will be used for marketing purposes to help us develop better products and services. ***Of course, all information is strictly confidential.***

1. How did you learn about us?

____ Advertisement ____ Friend ____ Catalog
____ Card Deck ____ Website ____ Other:

2. Which of the following magazines do you subscribe to?

____ Cabinetmaker & FDM
____ Family Handyman
____ Hand Loader
____ Handy
____ Home Shop Machinist
____ Journal of Light Cont.
____ Live Steam
____ Model Airplane News
____ Old House Journal
____ Popular Mechanics
____ Popular Science
____ Popular Woodworking
____ Precision Shooter
____ Projects in Metal
____ RC Modeler
____ Rifle
____ Shop Notes
____ Shotgun News
____ Today's Homeowner
____ Wood
____ Wooden Boat
____ Woodshop News
____ Woodsmith
____ Woodwork
____ Woodworker West
____ Woodworker's Journal
____ Other:

3. What is your annual household income?

____ $20,000-$29,000 ____ $30,000-$39,000 ____ $40,000-$49,000
____ $50,000-$59,000 ____ $60,000-$69,000 ____ $70,000+

4. What is your age group?

____ 20-29 ____ 30-39 ____ 40-49
____ 50-59 ____ 60-69 ____ 70+

5. How long have you been a woodworker/metalworker?

____ 0-2 Years ____ 2-8 Years ____ 8-20 Years ____ 20+ Years

6. How many of your machines or tools are Grizzly?

____ 0-2 ____ 3-5 ____ 6-9 ____ 10+

7. Do you think your machine represents a good value? _____Yes _____No

8. Would you recommend Grizzly Industrial to a friend? _____Yes _____No

9. Would you allow us to use your name as a reference for Grizzly customers in your area?
Note: *We never use names more than 3 times.* _____Yes _____No

10. Comments: _____

_____

_____

_____

CUT ALONG DOTTED LINE

FOLD ALONG DOTTED LINE

Place
Stamp
Here

GRIZZLY INDUSTRIAL, INC.
P.O. BOX 2069
BELLINGHAM, WA 98227-2069

FOLD ALONG DOTTED LINE

Send a Grizzly Catalog to a friend:

Name_____

Street_____

City_____State_____Zip_____

TAPE ALONG EDGES--PLEASE DO NOT STAPLE

WARRANTY AND RETURNS

Grizzly Industrial, Inc. warrants every product it sells for a period of **1 year** to the original purchaser from the date of purchase. This warranty does not apply to defects due directly or indirectly to misuse, abuse, negligence, accidents, repairs or alterations or lack of maintenance. This is Grizzly's sole written warranty and any and all warranties that may be implied by law, including any merchantability or fitness, for any particular purpose, are hereby limited to the duration of this written warranty. We do not warrant or represent that the merchandise complies with the provisions of any law or acts unless the manufacturer so warrants. In no event shall Grizzly's liability under this warranty exceed the purchase price paid for the product and any legal actions brought against Grizzly shall be tried in the State of Washington, County of Whatcom.

We shall in no event be liable for death, injuries to persons or property or for incidental, contingent, special, or consequential damages arising from the use of our products.

To take advantage of this warranty, contact us by mail or phone and give us all the details. We will then issue you a "Return Number,'' which must be clearly posted on the outside as well as the inside of the carton. We will not accept any item back without this number. Proof of purchase must accompany the merchandise.

The manufacturers reserve the right to change specifications at any time because they constantly strive to achieve better quality equipment. We make every effort to ensure that our products meet high quality and durability standards and we hope you never need to use this warranty.

Please feel free to write or call us if you have any questions about the machine or the manual.

Thank you again for your business and continued support. We hope to serve you again soon.