

Grizzly[®]

Industrial, Inc.

MODEL G0739

OSCILLATING SPINDLE SANDER

OWNER'S MANUAL
(For models manufactured since 6/15)




C 226766 US

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**WARNING: NO PORTION OF THIS MANUAL MAY BE REPRODUCED IN ANY SHAPE
OR FORM WITHOUT THE WRITTEN APPROVAL OF GRIZZLY INDUSTRIAL, INC.**

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 **WARNING!**

This manual provides critical safety instructions on the proper setup, operation, maintenance, and service of this machine/tool. Save this document, refer to it often, and use it to instruct other operators.

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

The owner of this machine/tool 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, cutting/sanding/grinding tool 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.

Table of Contents

INTRODUCTION	2	SECTION 4: OPERATIONS	16
Contact Info.....	2	Disabling Switch.....	16
Manual Accuracy	2	Sanding Drum/Sleeve Installation.....	17
Identification.....	3	Sanding.....	17
SECTION 1: SAFETY	5	SECTION 5: ACCESSORIES	18
Safety Instructions for Machinery	5	SECTION 6: MAINTENANCE	19
SECTION 2: POWER SUPPLY	8	Schedule	19
Availability.....	8	Before Each Use	19
Full-Load Current Rating	8	After Each Use	19
Circuit Requirements.....	8	Monthly Maintenance	19
Polarized Plug	9	Cleaning.....	19
Extension Cords	9	SECTION 7: SERVICE	20
SECTION 3: SETUP	10	Troubleshooting	20
Needed for Setup.....	10	Changing Motor Brushes	21
Unpacking	10	Belt Replacement.....	22
Inventory	11	SECTION 8: WIRING	26
Cleanup.....	11	Wiring Safety Instructions	26
Site Considerations.....	12	Wiring Diagram	27
Mounting	13	SECTION 9: PARTS	28
Assembly	13	Main Breakdown	28
Dust Collection.....	14	Labels Breakdown	30
Power Connection.....	14	WARRANTY & RETURNS	33
Connecting Power	14		
Disconnecting Power.....	14		
Test Run	15		

INTRODUCTION

Contact Info

We stand behind our machines! If you have questions or need help, contact us with the information below. Before contacting, make sure you get the **serial number** and **manufacture date** from the machine ID label. This will help us help you faster.

Grizzly Technical Support
1203 Lycoming Mall Circle
Muncy, PA 17756
Phone: (570) 546-9663
Email: techsupport@grizzly.com

We want your feedback on this manual. What did you like about it? Where could it be improved? Please take a few minutes to give us feedback.

Grizzly Documentation Manager
P.O. Box 2069
Bellingham, WA 98227-2069
Email: manuals@grizzly.com


Manual Accuracy

We are proud to provide a high-quality owner's manual with your new machine!

We made every effort to be exact with the instructions, specifications, drawings, and photographs in this manual. Sometimes we make mistakes, but our policy of continuous improvement also means that **sometimes the machine you receive is slightly different than shown in the manual.**

If you find this to be the case, and the difference between the manual and machine leaves you confused or unsure about something, check our website for an updated version. We post current manuals and manual updates for free on our website at **www.grizzly.com**.

Alternatively, you can call our Technical Support for help. Before calling, make sure you write down the **Manufacture Date** and **Serial Number** from the machine ID label (see below). This information is required for us to provide proper tech support, and it helps us determine if updated documentation is available for your machine.

		MODEL GXXXX MACHINE NAME	
SPECIFICATIONS		▲ WARNING!	
Motor:	To reduce risk of serious injury when using this machine:		
Specification:	Read manual before operation.		
Specification:	Wear safety glasses and respirator.		
Specification:	Ensure safety is correctly adjusted/setup and		
Weight:	power is connected to grounded circuit before starting.		
	4. Make sure the motor has stopped and disconnect		
	power before adjustments, maintenance, or service.		
	5. DO NOT expose to rain or dampness.		
	6. DO NOT modify this machine in any way.		
	7.		
	8.		
	9. Do not use while under the influence of drugs or alcohol.		
	10. Maintain machine carefully to prevent accidents.		
Manufactured for Grizzly in Taiwan			

Manufacture Date

Serial Number



Identification

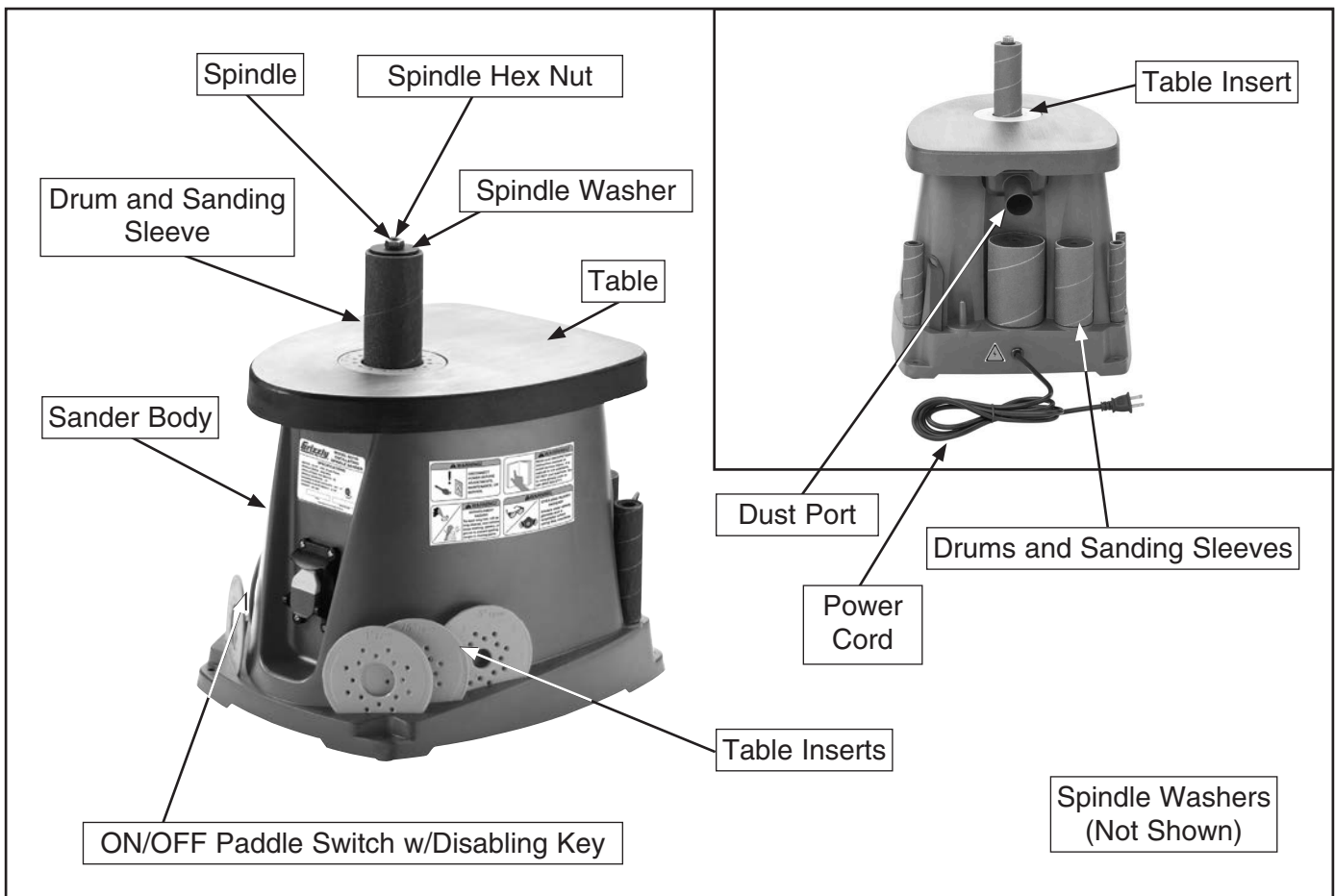


Figure 1. Machine identification.

!WARNING

For Your Own Safety Read This Manual Before Operating Spindle Sander

- a) Wear eye protection.
- b) Support workpiece on worktable.
- c) Minimize pinch hazards. Use the smallest table insert possible with sanding drum.
- d) Avoid kickback. Feed workpiece against rotation of drum.
- e) Avoid entanglement with spinning drum. Do not wear gloves, necktie, or loose clothing. Tie back long hair.





MACHINE DATA SHEET

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

MODEL G0739 OSCILLATING SPINDLE SANDER

Product Dimensions:

Weight..... 30 lbs.
Width (side-to-side) x Depth (front-to-back) x Height..... 15-9/16 x 14-1/8 x 17 in.
Footprint (Length x Width)..... 15-1/2 x 14 in.

Shipping Dimensions:

Type..... Cardboard Box
Content..... Machine
Weight..... 33 lbs.
Length x Width x Height..... 19 x 16 x 20 in.
Must Ship Upright..... No

Electrical:

Power Requirement..... 120V, Single-Phase, 60 Hz
Prewired Voltage..... 120V
Full-Load Current Rating..... 3.5A
Minimum Circuit Size..... 15A
Connection Type..... Cord & Plug
Power Cord Included..... Yes
Power Cord Length..... 6 ft.
Power Cord Gauge..... 18 AWG
Plug Included..... Yes
Included Plug Type..... 1-15
Switch Type..... Paddle Safety Switch w/Removable Key

Motors:

Main

Type..... Permanent Magnet Motor
Horsepower..... 1/2 HP
Phase..... Single-Phase
Amps..... 3.5A
Power Transfer..... V-Belt Drive
Bearings..... Sealed & Permanently Lubricated

Main Specifications:

Spindle Sander Info

Sanding Drum Diameters..... 1/2, 3/4, 1, 1-1/2, 2, 3 in.
Sanding Drum Length..... 4-1/2 in.
Spindle Speed..... 2000 RPM
Spindle Oscillation..... 58 SPM
Stroke Length..... 5/8 in.
Table Length..... 15 in.
Table Width..... 11-1/2 in.
Table Thickness..... 1-5/16 in.
Table-to-Floor Height..... 13 in.
Spindle Shaft Diameter..... 1/2 in.
Number of Table Inserts..... 6
Included Sanding Sleeve Grit Size..... 80




SECTION 1: SAFETY

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. Always use common sense and good judgment.

 **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.

Safety Instructions for Machinery

WARNING

OWNER'S MANUAL. Read and understand this owner's manual **BEFORE** using machine.

TRAINED OPERATORS ONLY. Untrained operators have a higher risk of being hurt or killed. Only allow trained/supervised people to use this machine. When machine is not being used, disconnect power, remove switch keys, or lock-out machine to prevent unauthorized use—especially around children. Make workshop kid proof!

DANGEROUS ENVIRONMENTS. Do not use machinery in areas that are wet, cluttered, or have poor lighting. Operating machinery in these areas greatly increases the risk of accidents and injury.

MENTAL ALERTNESS REQUIRED. Full mental alertness is required for safe operation of machinery. Never operate under the influence of drugs or alcohol, when tired, or when distracted.

ELECTRICAL EQUIPMENT INJURY RISKS. You can be shocked, burned, or killed by touching live electrical components or improperly grounded machinery. To reduce this risk, only allow qualified service personnel to do electrical installation or repair work, and always disconnect power before accessing or exposing electrical equipment.

DISCONNECT POWER FIRST. Always disconnect machine from power supply **BEFORE** making adjustments, changing tooling, or servicing machine. This prevents an injury risk from unintended startup or contact with live electrical components.

EYE PROTECTION. Always wear ANSI-approved safety glasses or a face shield when operating or observing machinery to reduce the risk of eye injury or blindness from flying particles. Everyday eyeglasses are **NOT** approved safety glasses.



WARNING

WEARING PROPER APPAREL. Do not wear clothing, apparel or jewelry that can become entangled in moving parts. Always tie back or cover long hair. Wear non-slip footwear to reduce risk of slipping and losing control or accidentally contacting cutting tool or moving parts.

HAZARDOUS DUST. Dust created by machinery operations may cause cancer, birth defects, or long-term respiratory damage. Be aware of dust hazards associated with each workpiece material. Always wear a NIOSH-approved respirator to reduce your risk.

HEARING PROTECTION. Always wear hearing protection when operating or observing loud machinery. Extended exposure to this noise without hearing protection can cause permanent hearing loss.

REMOVE ADJUSTING TOOLS. Tools left on machinery can become dangerous projectiles upon startup. Never leave chuck keys, wrenches, or any other tools on machine. Always verify removal before starting!

USE CORRECT TOOL FOR THE JOB. Only use this tool for its intended purpose—do not force it or an attachment to do a job for which it was not designed. Never make unapproved modifications—modifying tool or using it differently than intended may result in malfunction or mechanical failure that can lead to personal injury or death!

AWKWARD POSITIONS. Keep proper footing and balance at all times when operating machine. Do not overreach! Avoid awkward hand positions that make workpiece control difficult or increase the risk of accidental injury.

CHILDREN & BYSTANDERS. Keep children and bystanders at a safe distance from the work area. Stop using machine if they become a distraction.

GUARDS & COVERS. Guards and covers reduce accidental contact with moving parts or flying debris. Make sure they are properly installed, undamaged, and working correctly **BEFORE** operating machine.

FORCING MACHINERY. Do not force machine. It will do the job safer and better at the rate for which it was designed.

NEVER STAND ON MACHINE. Serious injury may occur if machine is tipped or if the cutting tool is unintentionally contacted.

STABLE MACHINE. Unexpected movement during operation greatly increases risk of injury or loss of control. Before starting, verify machine is stable and mobile base (if used) is locked.

USE RECOMMENDED ACCESSORIES. Consult this owner's manual or the manufacturer for recommended accessories. Using improper accessories will increase the risk of serious injury.

UNATTENDED OPERATION. To reduce the risk of accidental injury, turn machine **OFF** and ensure all moving parts completely stop before walking away. Never leave machine running while unattended.

MAINTAIN WITH CARE. Follow all maintenance instructions and lubrication schedules to keep machine in good working condition. A machine that is improperly maintained could malfunction, leading to serious personal injury or death.

DAMAGED PARTS. Regularly inspect machine for damaged, loose, or mis-adjusted parts—or any condition that could affect safe operation. Immediately repair/replace **BEFORE** operating machine. For your own safety, **DO NOT** operate machine with damaged parts!

MAINTAIN POWER CORDS. When disconnecting cord-connected machines from power, grab and pull the plug—**NOT** the cord. Pulling the cord may damage the wires inside. Do not handle cord/plug with wet hands. Avoid cord damage by keeping it away from heated surfaces, high traffic areas, harsh chemicals, and wet/damp locations.

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



WARNING

Additional Safety for Spindle Sanders

FEED RATE. Never jam a workpiece against the sanding surface. This can cause the workpiece to kick back or damage the machine. Firmly hold the workpiece and ease it against the spindle using light pressure.

AVOIDING ENTANGLEMENT. Keep loose clothing articles such as sleeves, belts or jewelry items away from the spindle. These items could get entangled in the spindle, resulting in serious personal injury. Never wear gloves when operating the spindle sander.

HAND PLACEMENT. Do not place hands near, or in contact with, sanding surfaces during operation to avoid personal injury.

WORKPIECE HANDLING. Hold the workpiece with both hands to maintain control while sanding (or use an appropriate holding jig) to reduce the likelihood of losing control of the workpiece and having it thrown from the machine.

SANDING SLEEVES. Worn or damaged sanding sleeves can tear apart and become entangled in the spindle or be thrown from the machine, resulting in personal injury or property damage. Replace sanding sleeves as required.

FOREIGN MATERIAL. Always inspect stock for nails, staples, knots, and other imperfections that could be dislodged and thrown from the machine during sanding operations.

DUST COLLECTION. Never operate the sander without an adequate dust collection system in place and running. Proper dust collection reduces dust in the work area, which decreases the risk of long-term respiratory damage.

DIRECTION. Never sand tapered or pointed stock with the point facing the feed direction to avoid the workpiece being thrown from the machine.

POWER DISCONNECT. Disconnect the machine from the power source before changing the sanding sleeve to avoid injuries in the event of an accidental startup.

RESPIRATOR USE. Always use a respirator that is approved for wood dust when using this machine to reduce the risk of short and long term respiratory illness. A dust collector is not an adequate substitute.

TABLE INSERTS. Always use the table insert that fits closest to the diameter of the installed sanding drum. A pinch hazard exists from the gap between the table and the oscillating drum. Keeping this gap as small as possible reduces the risk of this hazard.

WARNING

Like all machinery there is potential danger when operating this machine. Accidents are frequently caused by lack of familiarity or failure to pay attention. Use this machine with respect and caution to decrease the risk of operator injury. If normal safety precautions are overlooked or ignored, serious personal injury may occur.

CAUTION

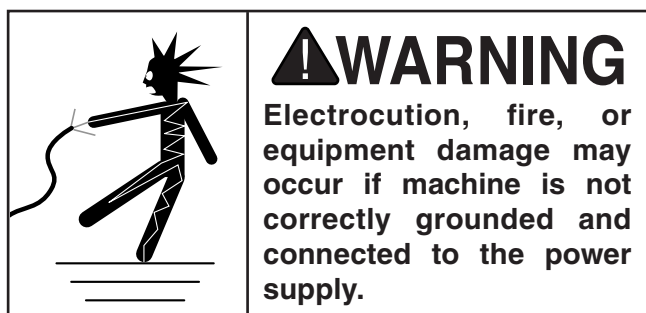
No list of safety guidelines can be complete. Every shop environment is different. Always consider safety first, as it applies to your individual working conditions. Use this and other machinery with caution and respect. Failure to do so could result in serious personal injury, damage to equipment, or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



SECTION 2: POWER SUPPLY

Availability

Before installing the machine, consider the availability and proximity of the required power supply circuit. If an existing circuit does not meet the requirements for this machine, a new circuit must be installed. To minimize the risk of electrocution, fire, or equipment damage, installation work and electrical wiring must be done by an electrician or qualified service personnel in accordance with all applicable codes and standards.



Full-Load Current Rating

The full-load current rating is the amperage a machine draws at 100% of the rated output power. On machines with multiple motors, this is the amperage drawn by the largest motor or sum of all motors and electrical devices that might operate at one time during normal operations.

Full-Load Current Rating at 120V 3.5 Amps

The full-load current is not the maximum amount of amps that the machine will draw. If the machine is overloaded, it will draw additional amps beyond the full-load rating.

If the machine is overloaded for a sufficient length of time, damage, overheating, or fire may result—especially if connected to an undersized circuit. To reduce the risk of these hazards, avoid overloading the machine during operation and make sure it is connected to a power supply circuit that meets the requirements in the following section.

Circuit Requirements

This machine is prewired to operate on a 120V power supply circuit that has a verified ground and meets the following requirements:

Nominal Voltage 120V
Cycle 60 Hz
Phase Single-Phase
Power Supply Circuit 15 Amps

A power supply circuit includes all electrical equipment between the breaker box or fuse panel in the building and the machine. The power supply circuit used for this machine must be sized to safely handle the full-load current drawn from the machine for an extended period of time. (If this machine is connected to a circuit protected by fuses, use a time delay fuse marked D.)



Note: *The circuit requirements listed in this manual apply to a dedicated circuit—where only one machine will be running at a time. If this machine will be connected to a shared circuit where multiple machines will be running at the same time, consult a qualified electrician to ensure that the circuit is properly sized for safe operation.*



Polarized Plug

To reduce the risk of electric shock, this machine has a polarized plug (one blade is wider than the other). This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, turn it 180 degrees and try again. If it still does not fit, contact a qualified electrician to install the proper outlet. Do not change the plug in any way.

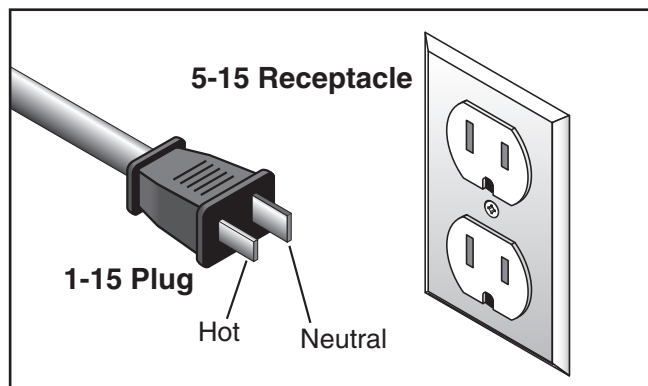


Figure 2. Typical 1-15 plug and receptacle.

⚠️ WARNING

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

Extension Cords

We do not recommend using an extension cord with this machine. If you must use an extension cord, only use it if absolutely necessary and only on a temporary basis.

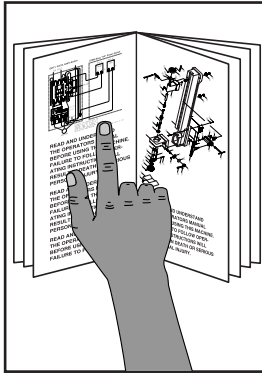
Extension cords cause voltage drop, which may damage electrical components and shorten motor life. Voltage drop increases as the extension cord size gets longer and the gauge size gets smaller (higher gauge numbers indicate smaller sizes).

Any extension cord used with this machine must contain a ground wire, match the required plug and receptacle, and meet the following requirements:

Minimum Gauge Size16 AWG
Maximum Length (Shorter is Better).....50 ft.



SECTION 3: SETUP



!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!

Needed for Setup

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

Description	Qty
• Safety Glasses	1
• Cleaner/Degreaser.....	As Needed
• Disposable Shop Rags.....	As Needed
• Straightedge 4'	1
• Screwdriver Phillips #2	1
• Screwdriver Flat Head #2.....	1
• Dust Collection System	1
• Dust Hose 1½"	1
• Hose Clamps 1½"	2

Unpacking

Your machine was carefully packaged for safe transportation. Remove the packaging materials from around your machine and inspect it. If you discover any damage, *please call us immediately 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!
 Keep children and pets away from plastic bags or packing materials shipped with this machine. Discard immediately.



Inventory

The following is a list of items shipped with your machine. Before beginning setup, lay these items out and inventory them.

If any non-proprietary 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.

Inventory: (Figure 3)	Qty
A. Spindle Sander Assembly.....	1
B. Table Inserts 1/2", 3/4", 1", 1 1/2", 2", 3".....	6
C. Arbor Wrench.....	1
D. Spindle Hex Nut.....	1
E. Spindle Washers 5/8", 7/8", 1 3/4".....	3
F. Sanding Drums 3/4", 1", 1 1/2", 2", 3".....	5
G. Sanding Sleeves 1/2", 3/4", 1", 1 1/2", 2", 3".....	6
H. Base Washer 2 3/4".....	1

NOTICE

If you cannot find an item on this list, carefully check around/inside the machine and packaging materials. Often, these items get lost in packaging materials while unpacking or they are pre-installed at the factory.

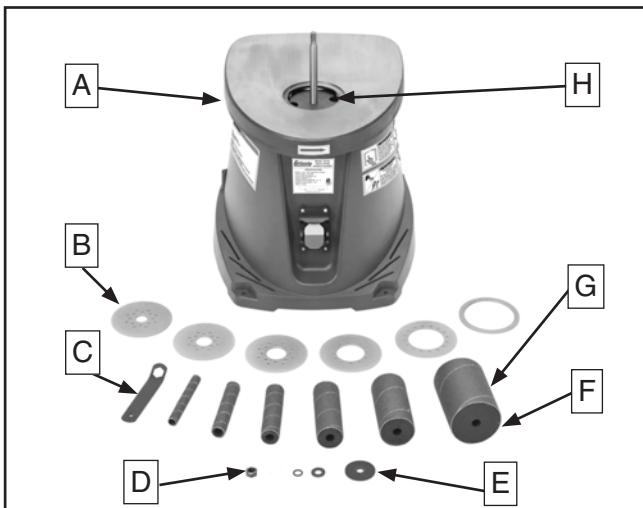


Figure 3. Box Contents

Cleanup

The unpainted surfaces of your machine are coated with a heavy-duty rust preventative that prevents corrosion during shipment and storage. This rust preventative works extremely well, but it will take a little time to clean.

Be patient and do a thorough job cleaning your machine. The time you spend doing this now will give you a better appreciation for the proper care of your machine's unpainted surfaces.

There are many ways to remove this rust preventative, but the following steps work well in a wide variety of situations. Always follow the manufacturer's instructions with any cleaning product you use and make sure you work in a well-ventilated area to minimize exposure to toxic fumes.

Before cleaning, gather the following:

- Disposable Rags
- Cleaner/degreaser (WD•40 works well)
- Safety glasses & disposable gloves
- Plastic paint scraper (optional)

Basic steps for removing rust preventative:

1. Put on safety glasses.
2. Coat the rust preventative with a liberal amount of cleaner/degreaser, then let it soak for 5–10 minutes.
3. Wipe off the surfaces. If your cleaner/degreaser is effective, the rust preventative will wipe off easily. If you have a plastic paint scraper, scrape off as much as you can first, then wipe off the rest with the rag.
4. Repeat **Steps 2–3** as necessary until clean, then coat all unpainted surfaces with a quality metal protectant to prevent rust.



Site Considerations

Weight Load

Refer to the **Machine Data Sheet** for the weight of your machine. Make sure that the surface upon which the machine is placed will bear the weight of the machine, additional equipment that may be installed on the machine, and the heaviest workpiece that will be used. Additionally, consider the weight of the operator and any dynamic loading that may occur when operating the machine.

Space Allocation

Consider the largest size of workpiece that will be processed through this machine and provide enough space around the machine for adequate operator material handling or the installation of auxiliary equipment. With permanent installations, leave enough space around the machine to open or remove doors/covers as required by the maintenance and service described in this manual. **See below for required space allocation.**

	<p>CAUTION Children or untrained people may be seriously injured by this machine. Only install in an access restricted location.</p>
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Physical Environment

The physical environment where the machine is operated is important for safe operation and longevity of machine components. For best results, operate this machine in a dry environment that is free from excessive moisture, hazardous chemicals, airborne abrasives, or extreme conditions. Extreme conditions for this type of machinery are generally those where the ambient temperature range exceeds 41°–104°F; the relative humidity range exceeds 20–95% (non-condensing); or the environment is subject to vibration, shocks, or bumps.

Electrical Installation

Place this machine near an existing power source. Make sure all power cords are protected from traffic, material handling, moisture, chemicals, or other hazards. Make sure to leave access to a means of disconnecting the power source or engaging a lockout/tagout device, if required.

Lighting

Lighting around the machine must be adequate enough that operations can be performed safely. Shadows, glare, or strobe effects that may distract or impede the operator must be eliminated.

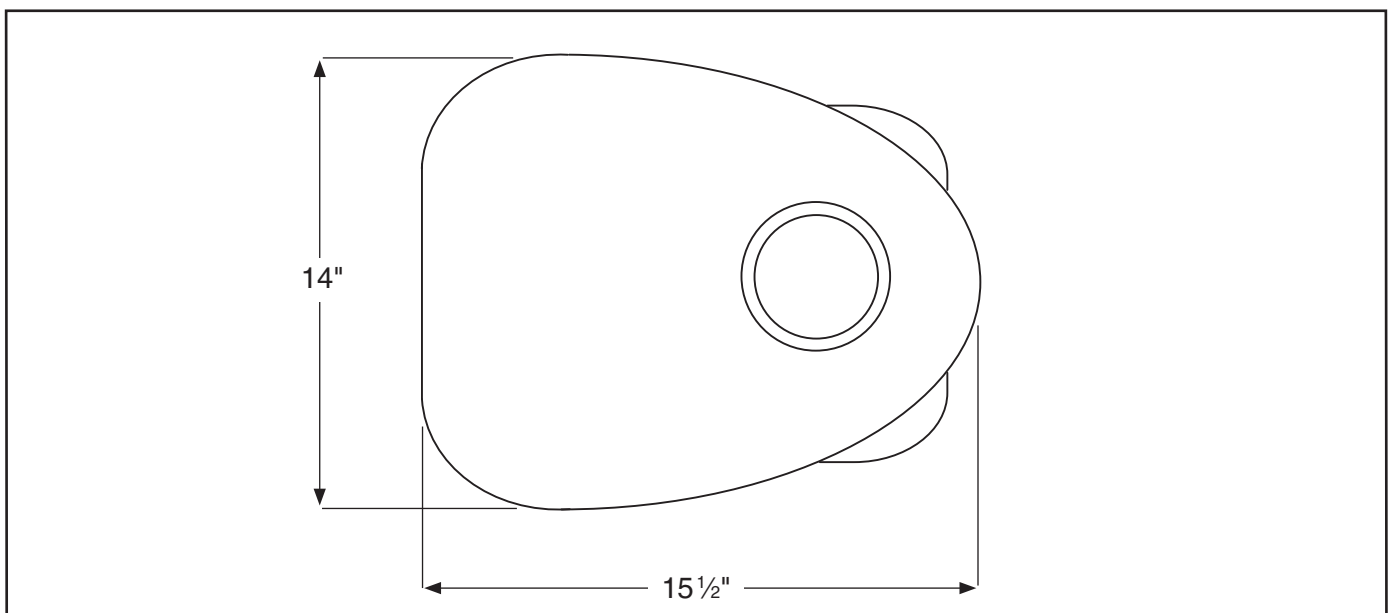


Figure 4. Model G0739 working clearances.



Mounting

The base of this machine has mounting holes that allow it to be fastened to a workbench or other mounting surface to prevent it from moving during operation and causing accidental injury or damage.

The strongest mounting option is a "Through Mount" (see example below) where holes are drilled all the way through the workbench—and hex bolts, washers, and hex nuts are used to secure the machine in place.

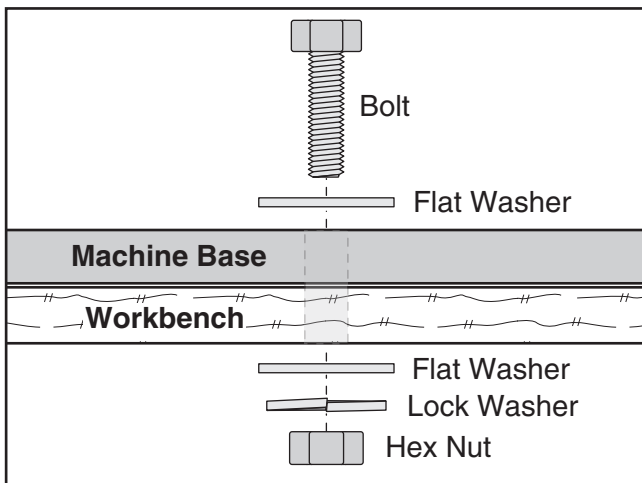


Figure 5. Example of a "Through Mount" setup.

Another option is a "Direct Mount" (see example below) where the machine is secured directly to the workbench with lag screws and washers.

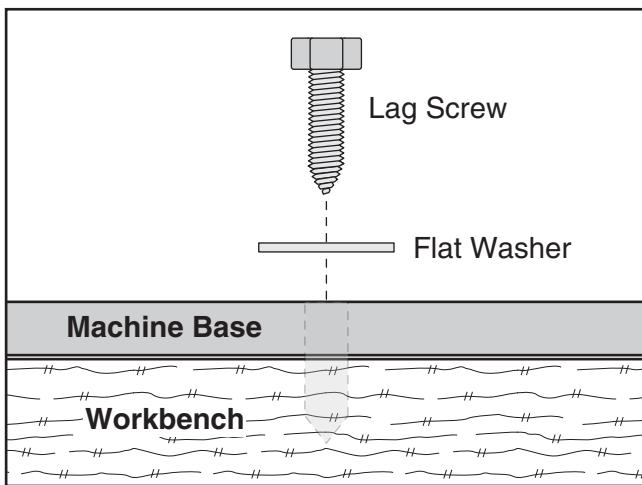


Figure 6. Example of a "Direct Mount" setup.

Assembly

Place the spindle hex nut, table inserts, sanding drums and sleeves, and spindle washers in the appropriate sized accessory slots beneath the table. A sanding drum does not need to be installed until after the test run.

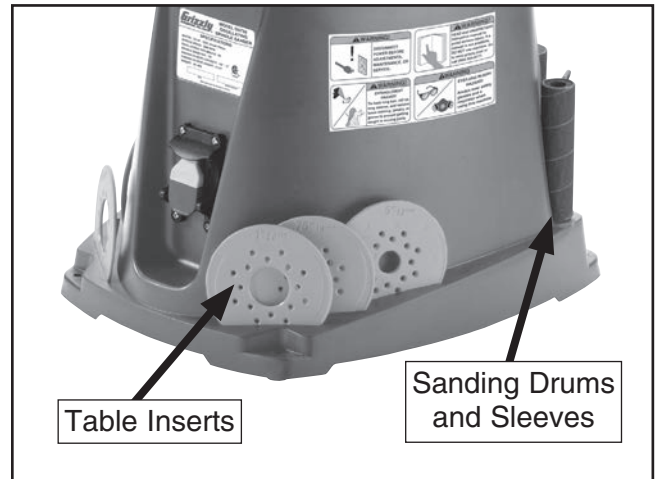


Figure 7. Assembled sander.



Dust Collection

⚠ CAUTION

DO NOT operate the Model G0739 without an adequate dust collection system. This sander creates substantial amounts of wood dust while operating. Failure to use a dust collection system can result in short and long-term respiratory illness.

Recommended CFM at Dust Port: 100 CFM

Do not confuse this CFM recommendation with the rating of the dust collector. To determine the CFM at the dust port, you must consider these variables: (1) CFM rating of the dust collector, (2) hose type and length between the dust collector and the machine, (3) number of branches or wyes, and (4) amount of other open lines throughout the system. Explaining how to calculate these variables is beyond the scope of this manual. Consult an expert or purchase a good dust collection "how-to" book.

To connect a dust collection hose:

1. Fit a 1½" dust hose over the dust port shown in **Figure 8** and secure in place with a hose clamp.
2. Tug the hose to ensure it does not come off. A tight fit is necessary for proper performance.

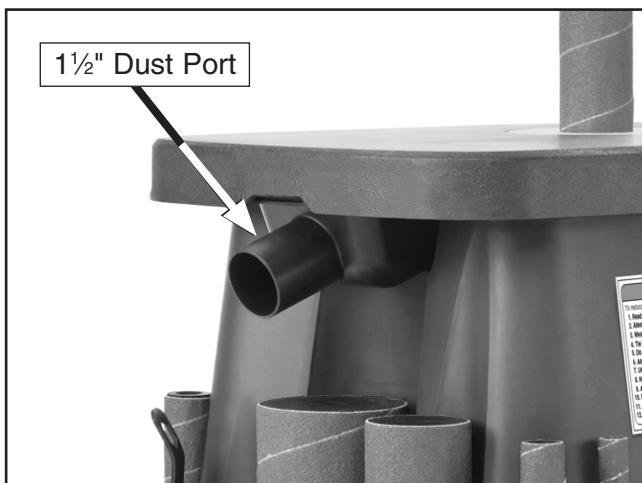


Figure 8. Dust port location.

Power Connection

After you have completed all previous setup instructions and circuit requirements, the machine is ready to be connected to the power supply.

To avoid unexpected startups or property damage, use the following steps whenever connecting or disconnecting the machine.

Connecting Power

1. Turn the machine power switch **OFF**.
2. Insert the power cord plug into a matching power supply receptacle. The machine is now connected to the power source.

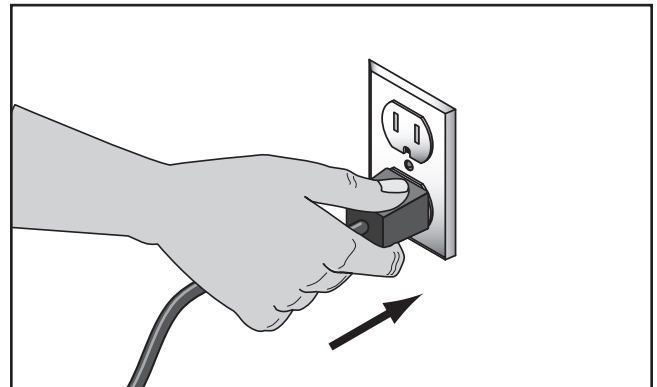


Figure 9. Connect power.

Disconnecting Power

1. Turn the machine power switch **OFF**.
2. Grasp the molded plug and pull it completely out of the receptacle. Do not pull by the cord as this may damage the wires inside.

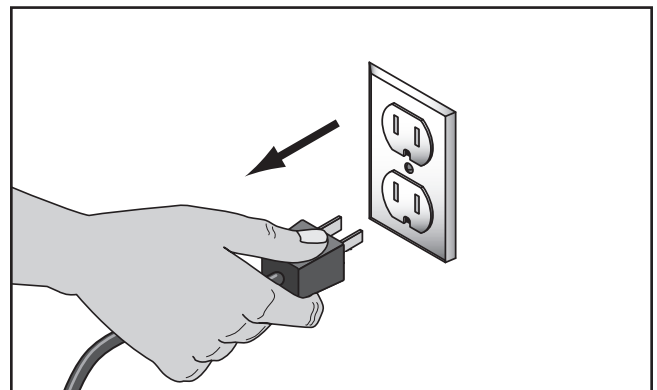


Figure 10. Disconnect power.



Test Run

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

Note: *You do not need to install a drum to perform the test run.*

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 20**.

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 assembled 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 it **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 11**.

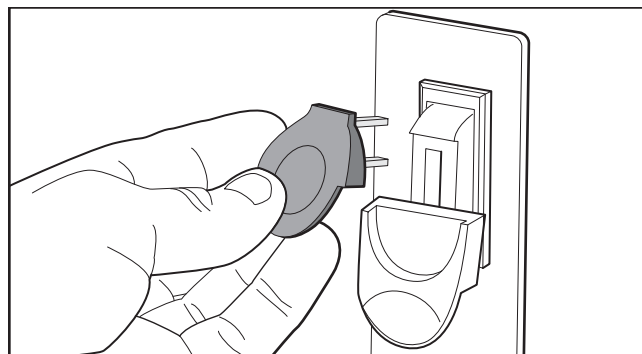


Figure 11. Disabling switch by removing key.

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

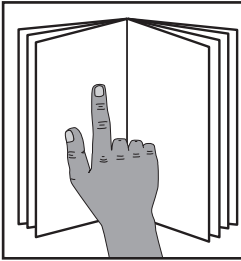
—If the machine *does not* start, the switch disabling feature is working as designed.

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

Congratulations! The test run is complete. The sander is ready for operation.



SECTION 4: OPERATIONS

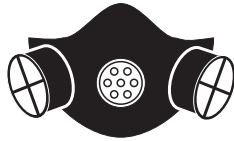


!WARNING

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

!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.



NOTICE

If you have never used this type of machine or equipment before, WE STRONGLY RECOMMEND that you read books, review industry 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.

Disabling Switch

The switch can be disabled by removing the key, as shown in the following figure. Disabling the switch in this manner can prevent unauthorized operation of the machine, which is important if it is not kept inside an access-restricted building or in a location where children may be present.

IMPORTANT: Disabling the switch only restricts its function. It is not a substitute for disconnecting the machine from power when adjusting or servicing.

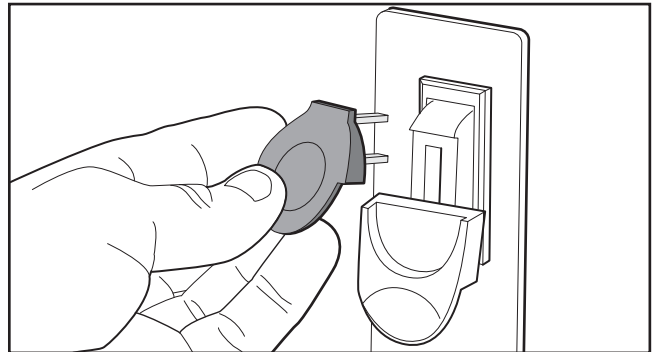


Figure 12. Disabling switch by removing key.

!WARNING

Children or untrained people can be seriously injured by this machine. This risk increases with unsupervised operation. To help prevent unsupervised operation, always disable switch before leaving machine unattended. Make sure to place key in a well-hidden or secure location!



Sanding Drum/ Sleeve Installation

To ensure the workpiece is supported during sanding operations, use the table insert that matches the corresponding drum and sleeve (see table below). It is important to keep the gap between the table insert and drum as small as possible to reduce the risk of a pinch hazard.

Sanding Sleeves	Sanding Drums	Table Inserts	Spindle Washers
1/2"	N/A	1/2"	5/8"
3/4"	3/4"	3/4"	7/8"
1"	1"	1"	7/8"
1 1/2"	1 1/2"	1 1/2"	1 3/4"
2"	2"	2"	1 3/4"
3"	3"	3"	1 3/4"

To install or replace a sanding drum/sleeve:

1. DISCONNECT SANDER FROM POWER!.
2. While holding the sanding drum and sleeve, use the arbor wrench to loosen and remove the spindle hex nut.
3. Remove the spindle washer, sanding sleeve, sanding drum, table insert and base washer (see **Figure 13**).

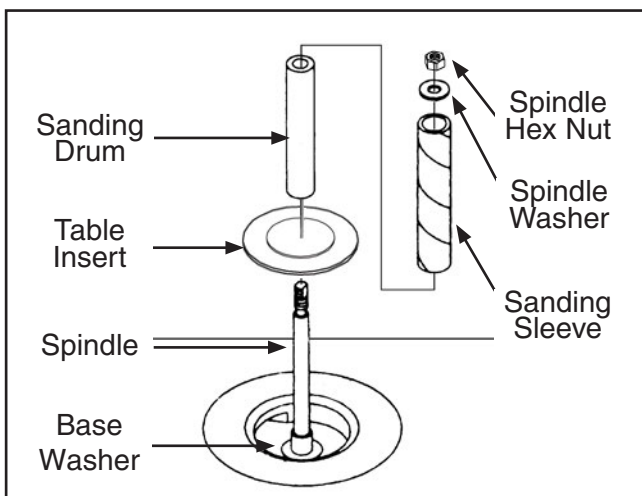


Figure 13. Removal/installation order of sanding drum components and table inserts.

4. Clean the table opening for the table insert and any other spindle areas as necessary. There should be no sawdust on the ledge of the table opening where the table insert is placed or the table insert will not sit flush with the table.
5. Use the table on this page to select the required size of components for the sanding drum/sleeve size you have chosen.
6. Insert the base washer, then install the desired sanding drum on the spindle shaft, followed by the corresponding sanding sleeve on the drum, as shown in **Figure 13**.
7. Secure the sanding drum with the appropriate spindle washer and the spindle hex nut. Tighten until the rubber sanding drum places slight pressure on the sanding sleeve.

Sanding

To sand a workpiece:

1. Turn the spindle sander **ON** and allow it to reach full speed.
2. Using both hands to maintain control of the workpiece, guide the workpiece against the rotation of the spindle, as shown in **Figure 14**. DO NOT force the workpiece against the sanding sleeve. Allow the machine to do the work.

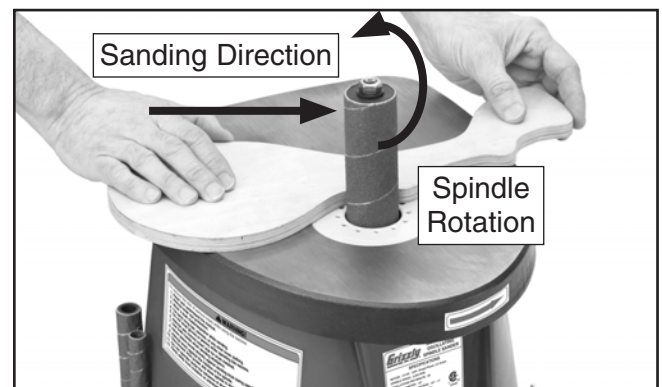


Figure 14. Sanding workpiece.



SECTION 5: ACCESSORIES

!WARNING

Installing unapproved accessories may cause machine to malfunction, resulting in serious personal injury or machine damage. To reduce this risk, only install accessories recommended for this machine by Grizzly.

NOTICE

Refer to our website or latest catalog for additional recommended accessories.

PRO-STIK® Belt Cleaners

W1306—Large (1½" x 1½" x 8½")

W1307—Small (2" x 2" x 12")

W1304—1¾" x 4¼"

W1305—1¾" x 8½"

These crepe-rubber Belt Cleaners quickly remove gum and grit from belts, sleeves and discs without damage. Extend the life of your belts, sleeves or discs with this innovative natural cleaner.

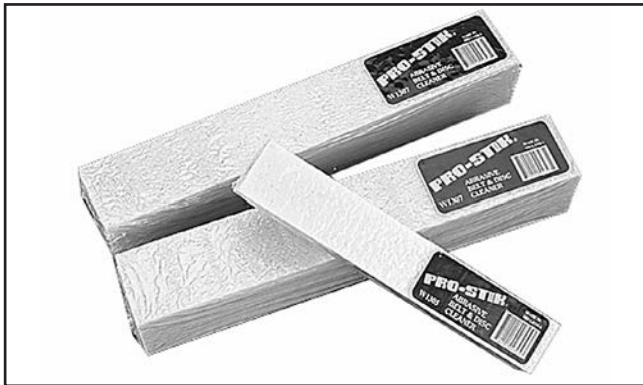


Figure 15. PRO-STIK® Belt Cleaners.

Replacement Sanding Sleeve 3 Packs

H5434—½" Dia. x 4½", Hard A150

H5438—¾" Dia. x 4½", Hard A120

H5442—1" Dia. x 4½", Hard A100

H5447—1½" Dia. x 4½", Hard A100

H5451—2" Dia. x 4½", Hard A80

H5455—3" Dia. x 4½", Hard A60

These aluminum oxide sanding sleeves come in a range of diameters and grits to meet all of your sanding needs.

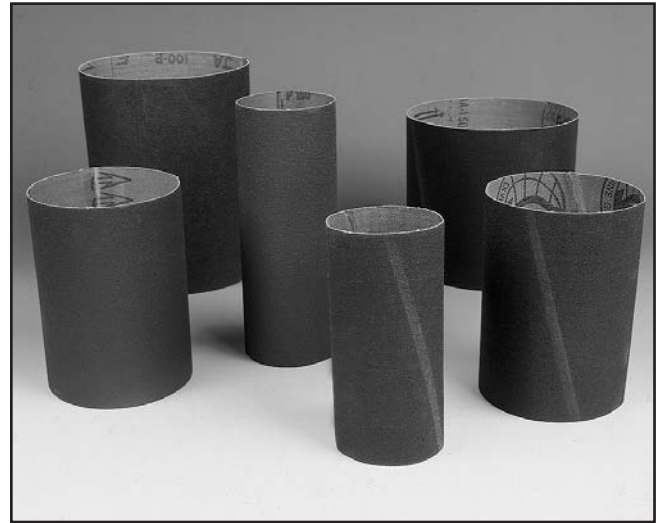


Figure 16. Replacement sanding sleeves.

D3640 Tool Table Plus - Complete

The Tool Table Plus was designed in response to customer requests for a slightly wider and taller table to accommodate small planers, wood lathes, sanders and a variety of other bench-top machines.

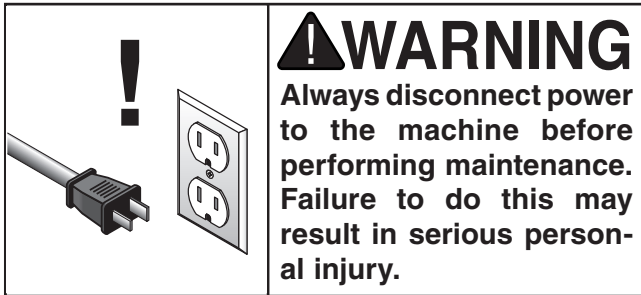


Figure 17. Tool Table Plus - Complete.

order online at www.grizzly.com or call 1-800-523-4777



SECTION 6: MAINTENANCE



Schedule

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

Before Each Use

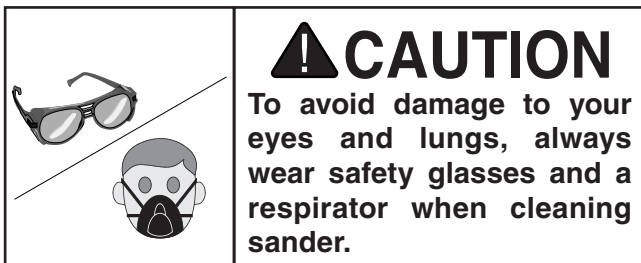
- Inspect the sanding drums and sleeves for wear or damage.
- Check for worn or damaged wires.
- Check for any other unsafe condition that could hamper operation of this machine or cause potential injury.

After Each Use

- Turn the sander **OFF**.
- Clean up any sawdust or particle residue from the machine.
- Protect table.

Monthly Maintenance

- Clean/vacuum dust buildup from inside the sander body and off of the motor.



Cleaning

To clean your machine, vacuum excess wood chips and sawdust, and wipe off any remaining dust with a dry cloth. Sawdust and other particles can also work their way under the table insert, so also clean this area. Sanding sleeves can be cleaned with the PRO-STIK® cleaners on **Page 18**.

Approximately every 30 days (or once a month) of usage remove the bottom plate (Part #90), clean/vacuum dust from inside the sander body and off of the motor, and re-install the bottom plate.

To clean the table:

1. DISCONNECT SANDER FROM POWER!
2. Remove sanding drum and table insert as described in **Steps 2–3** of the **Sanding Drum/Sleeve Installation** instructions on **Page 17**.
3. Wipe or vacuum out any dust or particles that have accumulated beneath the table insert on the table opening, shown in **Figure 18**.

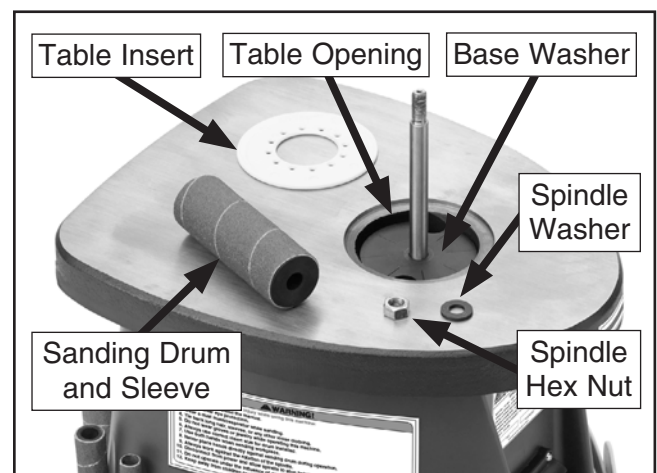


Figure 18. Table insert area.

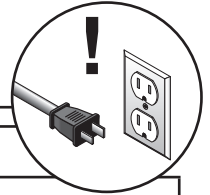
4. Re-install table insert and sanding drum.
5. To protect the table from rust, coat the table surface with a quality metal protectant.



SECTION 7: SERVICE

Review the troubleshooting and procedures in this section if a problem develops with your machine. If you need replacement parts or additional help with a procedure, call our Technical Support. **Note:** *Please gather the serial number and manufacture date of your machine before calling.*

Troubleshooting



Symptom	Possible Cause	Possible Solution
Motor will not start.	<ol style="list-style-type: none"> 1. Switch disabling key removed. 2. Loose connections at motor or switch. 3. Motor brushes worn. 	<ol style="list-style-type: none"> 1. Insert key to enable switch. 2. Inspect all motor connections for loose or open connections. 3. Replace motor brushes as a set.
Motor will not start; fuses or circuit breakers blow.	<ol style="list-style-type: none"> 1. Short circuit in line cord or plug. 2. Loose connections at motor switch. 3. Switch, bridge rectifier or motor at fault. 	<ol style="list-style-type: none"> 1. Inspect cord and plug for damaged insulation or shorted wires. 2. Inspect all motor connections for loose or shorted terminals or worn insulation. 3. Replace the component at fault.
Motor stalls (resulting in blown fuses or tripped circuit).	<ol style="list-style-type: none"> 1. Motor overloaded. 	<ol style="list-style-type: none"> 1. Reduce feeding pressure.
Machine slows when operating.	<ol style="list-style-type: none"> 1. Workpiece pressure is too great. 	<ol style="list-style-type: none"> 1. Secure machine to workbench.
Deep sanding grooves or scars in workpiece.	<ol style="list-style-type: none"> 1. Sanding sleeve too coarse for the desired finish. 2. Workpiece sanded across the grain. 3. Too much feeding pressure against workpiece. 	<ol style="list-style-type: none"> 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.	<ol style="list-style-type: none"> 1. Sanding sleeve has been stored in an incorrect environment. 2. Sanding sleeve has been folded or smashed. 	<ol style="list-style-type: none"> 1. Store sanding sleeve away from extremely dry or hot temperatures. 2. Store sanding sleeves separately and not folded or flat.
Sanding surfaces clog quickly or burn.	<ol style="list-style-type: none"> 1. Too much pressure against sleeve. 2. Sanding softwood or wood with a high sap content. 	<ol style="list-style-type: none"> 1. Reduce pressure on workpiece while sanding. 2. Either use different wood or plan on cleaning/replacing sleeves frequently.
Burn marks on workpiece.	<ol style="list-style-type: none"> 1. Using too fine of sanding grit. 2. Using too much pressure. 3. Work held still for too long. 	<ol style="list-style-type: none"> 1. Use a coarser grit sanding sleeve. 2. Reduce pressure on workpiece while sanding. 3. Do not keep workpiece in one place for too long.



Changing Motor Brushes

This sander has a permanent magnet motor that uses carbon brushes for operation. These brushes normally wear out over time and eventually need to be replaced.

Symptoms that the brushes have worn beyond their usable life may include a loss of power, inconsistent operation of the motor (motor cuts in and out inexplicably), or an inability of the motor to start.

If you are having trouble with the performance of the motor, first refer to **Troubleshooting on Page 22** to determine if the motor brushes must be replaced.

A pair of new brushes can be purchased from Grizzly by requesting part #P0739033A. The replacement procedure can usually be done in about 15 minutes. When replacing the brushes, we recommend replacing them one at a time so you can keep track of which wire connects to each brush.

Please note: The brushes have a plug-type prongs (see **Figure 19**) that insert into the motor (similar to regular power plug). Take care when removing them to pull them out first instead of just up.

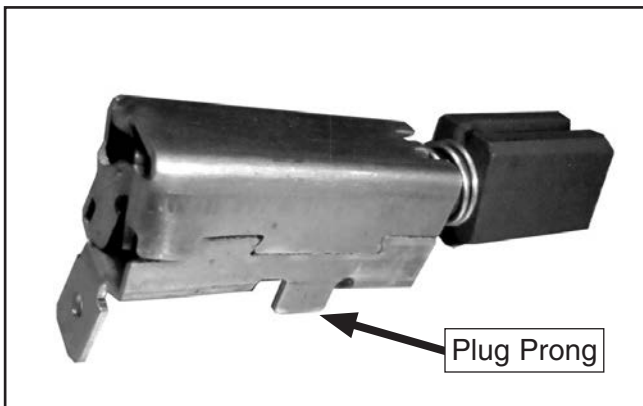


Figure 19. Motor brush assembly.

Tools Required:	Qty
Screwdriver Phillips #2	1

To change motor brushes:

1. DISCONNECT SANDER FROM POWER!
2. Turn machine on its side, and remove the screws securing the base plate, then remove the base plate to allow access to the motor.
3. Loosen the screws that secure the clamp plate over the brush assemblies (see **Figure 20**) but do not completely remove the plate.
4. Disconnect the wires attached to the motor brushes. Gently pull the brush assembly straight toward you and then upward to remove it.

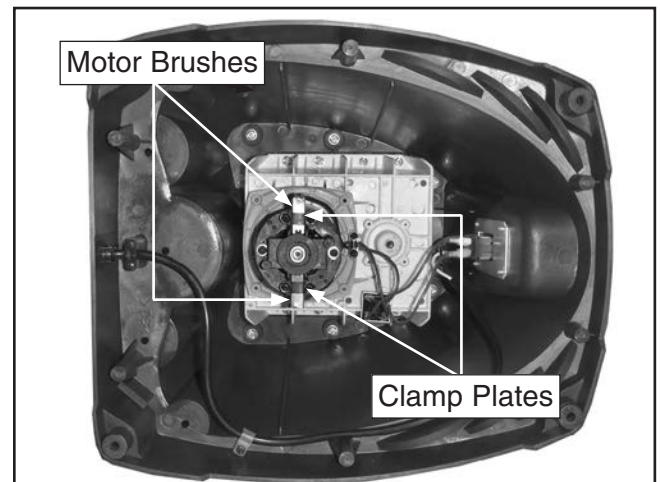


Figure 20. Motor brush location on motor.

5. Replace the motor brush assembly.
6. Reconnect the wire to the motor brush.
7. Tighten the clamp plate back in place, then repeat these steps to change the second motor brush assembly.
8. Replace and tighten the base plate.



Belt Replacement

The following procedure details removal and replacement of the timing belts. Refer to the parts breakdown and list to aid in proper identification of parts referenced in the procedure.

Tools Required:	Qty
Screwdriver Phillips #2.....	1
Snap Ring Pliers.....	1

To replace the timing belt:

1. DISCONNECT SANDER FROM POWER!
2. Place sander upside down on blocks, ensuring proper clearance of spindle (#55).
3. Remove six M4 x 14 tap screws (#91) from bottom plate (#90) shown in **Figure 21**.

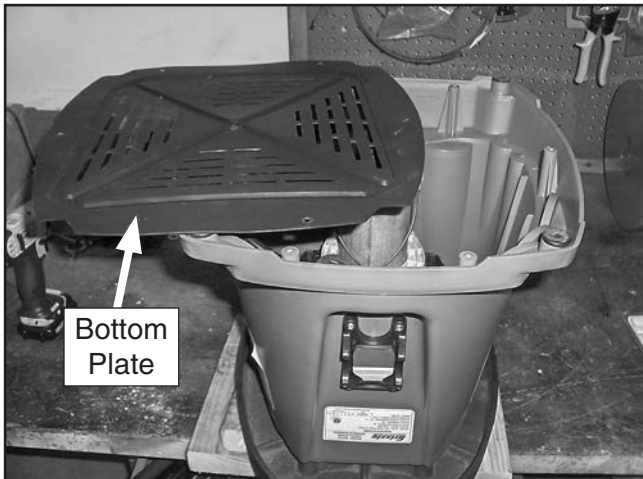


Figure 21. Sander turned upside down with bottom plate removed.

4. Remove two brown wires (#72) connected to rectifier (#69) shown in **Figure 22**.

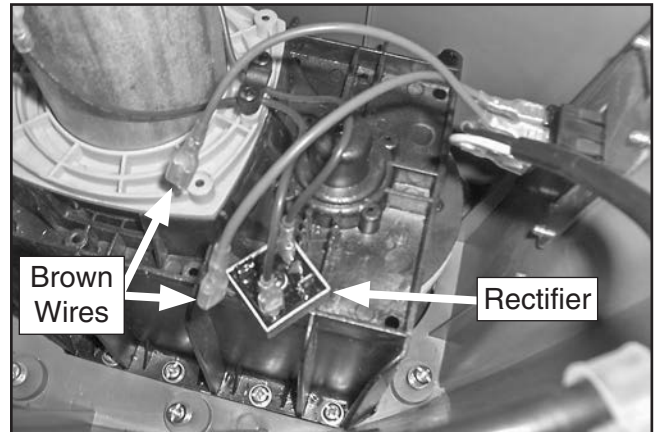


Figure 22. Wires removed from rectifier.

5. Remove six M6-1 x 16 Phillips head screws (#89) that attach the housing base (#76) to the cast iron table (#7).
6. Remove housing base (#76) from cast iron table (#7), as shown in **Figure 23**.

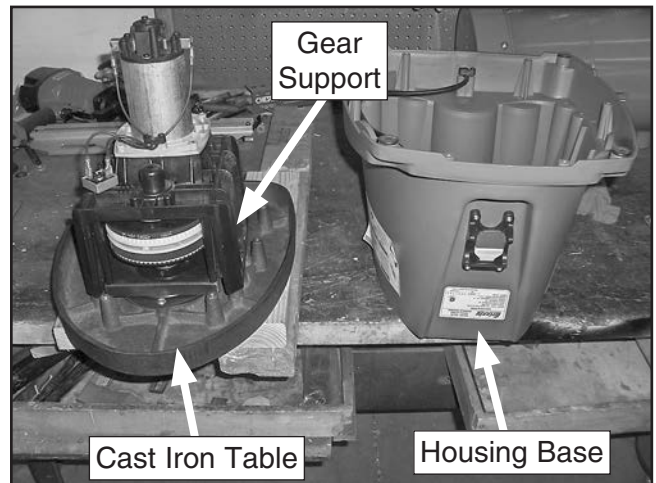


Figure 23. Housing base removed from cast iron table.



7. Remove eight M6-1 x 16 Phillips head screws (#23) that secure gear support (#66) to cast iron table (#7), then remove gear support (#66).
8. Remove four M4 x 20 tap screws (#41) that secure bearing cover (#42), then remove cover (see **Figure 24**).

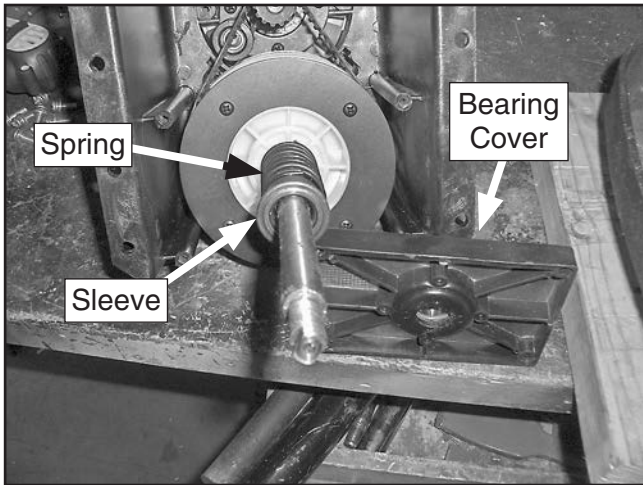


Figure 24. Bearing cover removed.

9. Remove bearing sleeve (#48) and compression spring (#49).
10. Remove 17mm external retaining ring (#50) and spindle washer (#51) from spindle (#55), as shown in **Figure 25**.

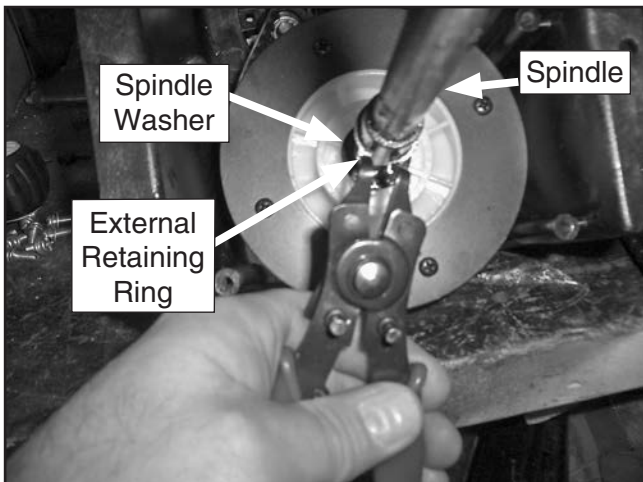


Figure 25. Removing external retaining ring and washer from spindle.

11. Remove $\frac{3}{8}$ " timing belt (#13) and drive gear (#54) assembly (see **Figure 26**) from spindle (#55), and put Woodruff key (#56) in safe place for re-assembly.

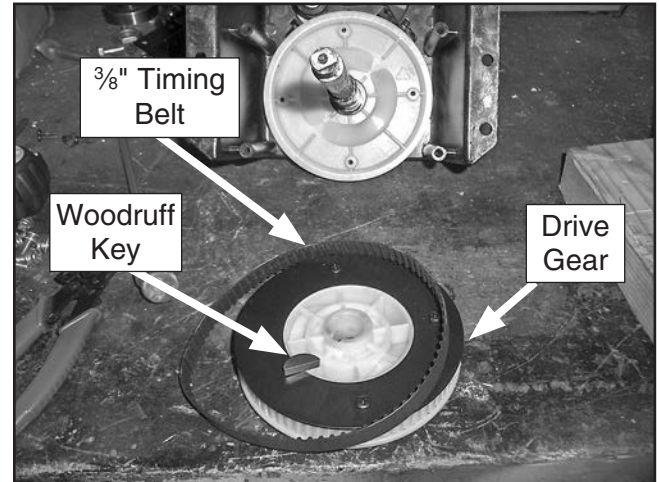


Figure 26. Timing belt and drive gear removed from spindle.

12. Remove spindle (#55) and differential gear (#57).

Note: Ensure the $\frac{1}{4}$ " timing belt (#14) is clear of tension roller assembly (#17) during removal.

13. Make sure bearing sleeve (#58) shown in **Figure 27** behind differential gear (#57) stays in place.
14. Remove $\frac{1}{4}$ " timing belt (see **Figure 27**).

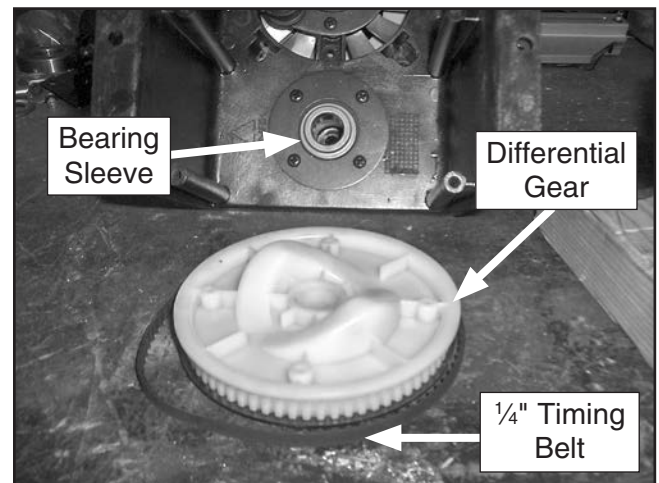


Figure 27. Location of bearing sleeve, with differential gear and $\frac{1}{4}$ " timing belt removed.



15. Install new ¼" timing belt (#14) onto differential gear (#57).
16. Install ¼" timing belt onto drive pulley (#15) with timing belt wrapped around proper side of the tension roller assembly (#17), as shown in **Figure 28**.

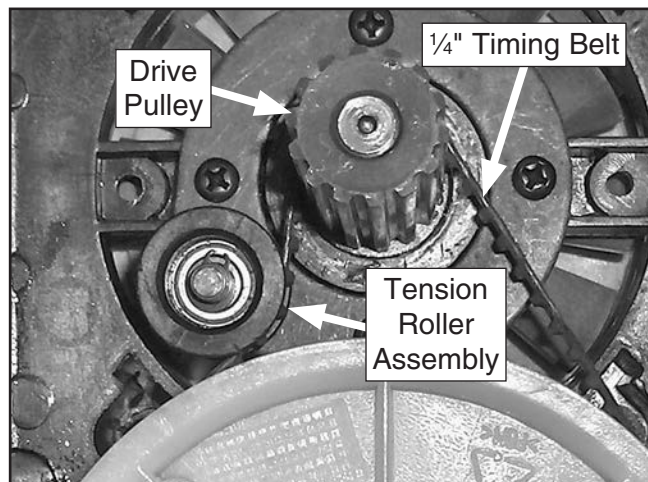


Figure 28. Timing belt installed onto drive pulley and tension roller assembly.

17. Install spindle (#55) with drive gear (#54) and bearing sleeve.
18. Install Woodruff key (#56) into spindle (#55), as shown in **Figure 29**.

Note: A piece of clear tape can be used to ensure Woodruff key (#56) stays in place during re-assembly.

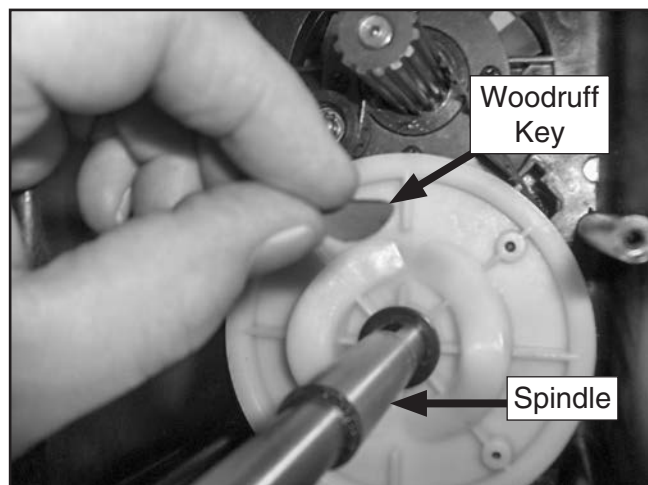


Figure 29. Installing Woodruff key into spindle.

19. Install new ⅜" timing belt (#13) onto drive gear (#54).
20. Install drive gear (#54) onto spindle (#55).
21. Slide ⅜" timing belt (#13) onto drive pulley (#15).

Note: Verify differential gear (#57) and drive gear (#54) are properly mated together, and that Woodruff key (#56) remains in place.

22. Install spindle washer (#51) and retaining ring (#50), as shown in **Figure 30**.

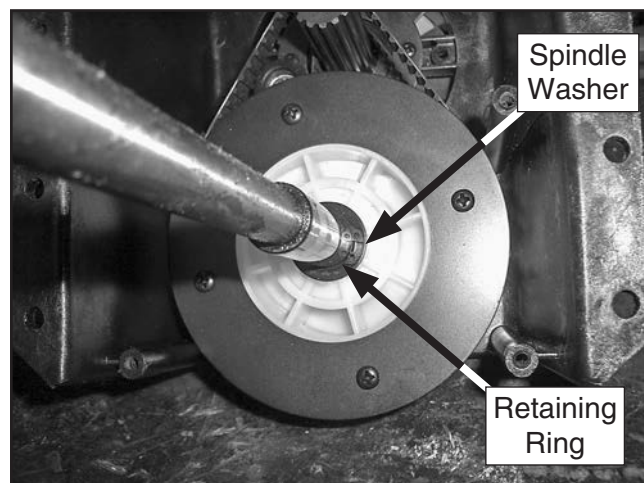


Figure 30. Spindle washer and retaining ring installed.

23. Install compression spring (#49), ensuring hooked end is locked into driver gear (#54) shoulder, as shown in **Figure 31**.

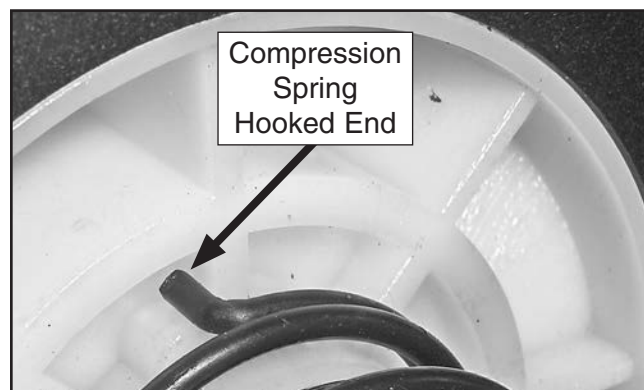


Figure 31. Hooked end of compression spring locked into driver gear shoulder.



24. Install bearing sleeve (#48) into compression spring (#49).
25. Install bearing cover (#42).
26. Install gear support (#66), as shown in **Figure 32**.

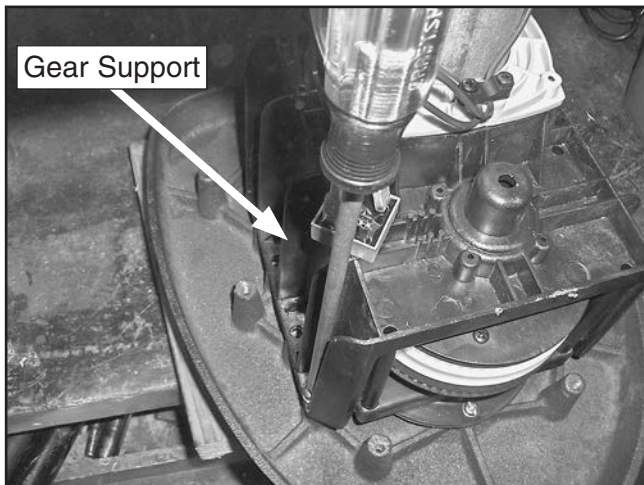


Figure 32. Installing gear support.

27. Re-install housing base (#76) onto cast iron table (#7) shown in **Figure 33**. Ensure that brown wiring (#72) is connected to the rectifier (#69).
28. Re-install bottom plate (#90) shown in **Figure 33**.

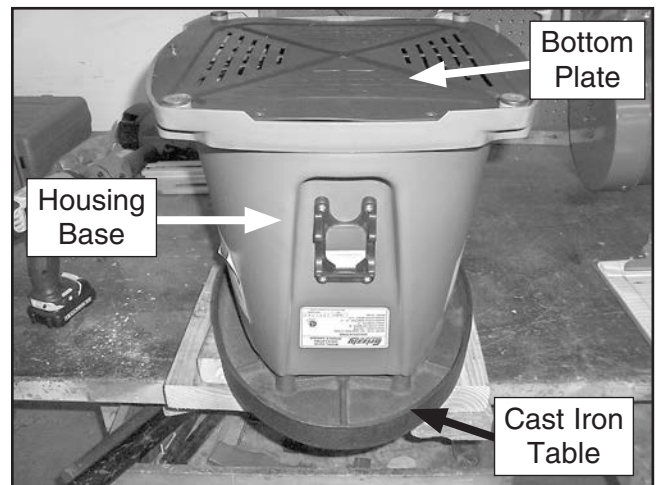


Figure 33. Housing base and bottom plate re-installed.



SECTION 8: WIRING

These pages are current at the time of printing. However, in the spirit of improvement, we may make changes to the electrical systems of future machines. Compare the manufacture date of your machine to the one stated in this manual, and study this section carefully.

If there are differences between your machine and what is shown in this section, call Technical Support at (570) 546-9663 for assistance BEFORE making any changes to the wiring on your machine. An updated wiring diagram may be available. **Note:** *Please gather the serial number and manufacture date of your machine before calling. This information can be found on the main machine label.*

WARNING

Wiring Safety Instructions

SHOCK HAZARD. Working on wiring that is connected to a power source is extremely dangerous. Touching electrified parts will result in personal injury including but not limited to severe burns, electrocution, or death. Disconnect the power from the machine before servicing electrical components!

MODIFICATIONS. Modifying the wiring beyond what is shown in the diagram may lead to unpredictable results, including serious injury or fire. This includes the installation of unapproved after-market parts.

WIRE CONNECTIONS. All connections must be tight to prevent wires from loosening during machine operation. Double-check all wires disconnected or connected during any wiring task to ensure tight connections.

CIRCUIT REQUIREMENTS. You MUST follow the requirements at the beginning of this manual when connecting your machine to a power source.

WIRE/COMPONENT DAMAGE. Damaged wires or components increase the risk of serious personal injury, fire, or machine damage. If you notice that any wires or components are damaged while performing a wiring task, replace those wires or components.

MOTOR WIRING. The motor wiring shown in these diagrams is current at the time of printing but may not match your machine. If you find this to be the case, use the wiring diagram inside the motor junction box.
















CAPACITORS/INVERTERS. Some capacitors and power inverters store an electrical charge for up to 10 minutes after being disconnected from the power source. To reduce the risk of being shocked, wait at least this long before working on capacitors.

EXPERIENCING DIFFICULTIES. If you are experiencing difficulties understanding the information included in this section, contact our Technical Support at (570) 546-9663.

NOTICE

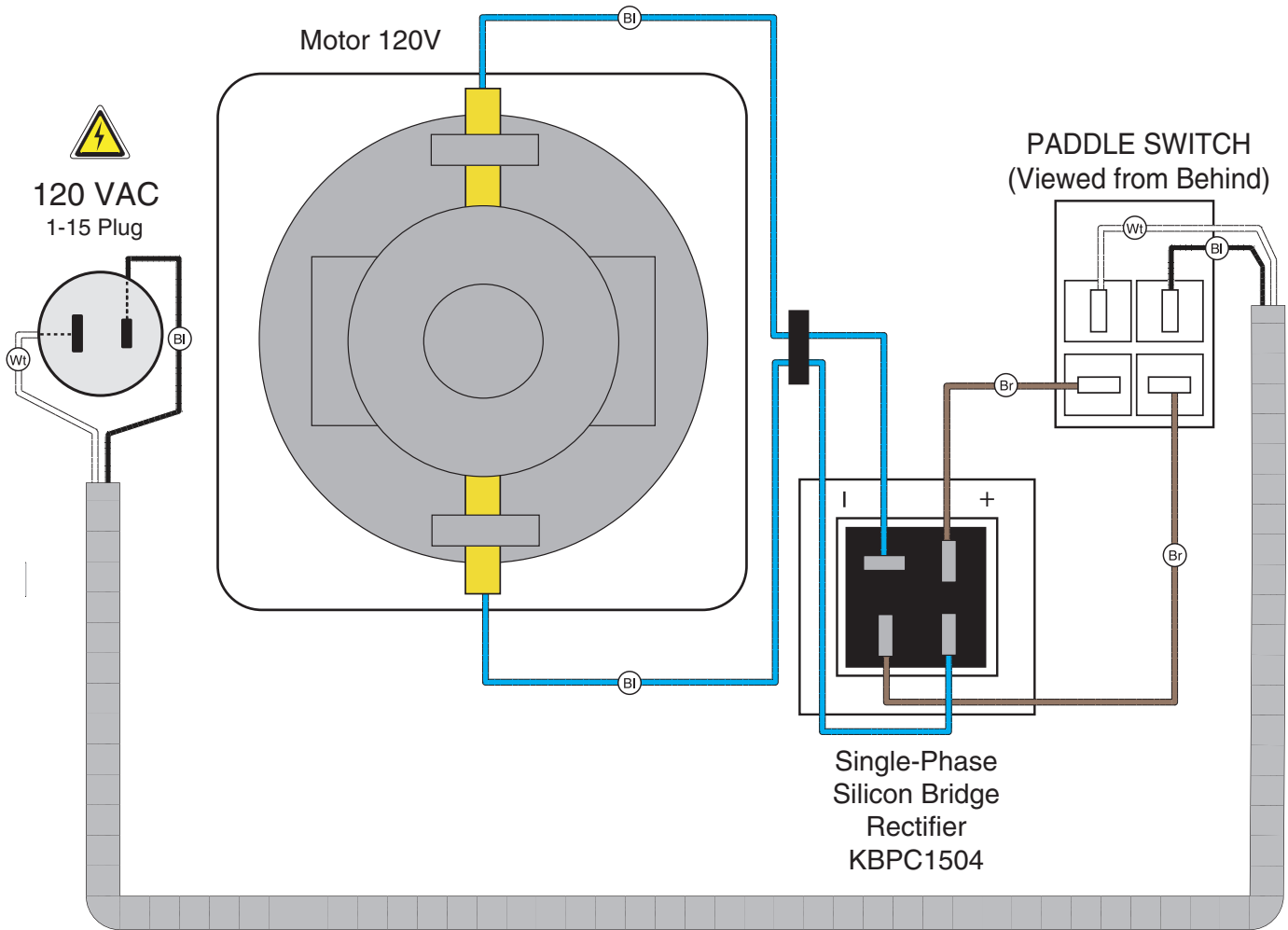
The photos and diagrams included in this section are best viewed in color. You can view these pages in color at www.grizzly.com.

COLOR KEY

BLACK 	BLUE 	YELLOW 	LIGHT BLUE 
WHITE 	BROWN 	YELLOW GREEN 	BLUE WHITE 
GREEN 	GRAY 	PURPLE 	TURQUOISE 
RED 	ORANGE 	PINK 	



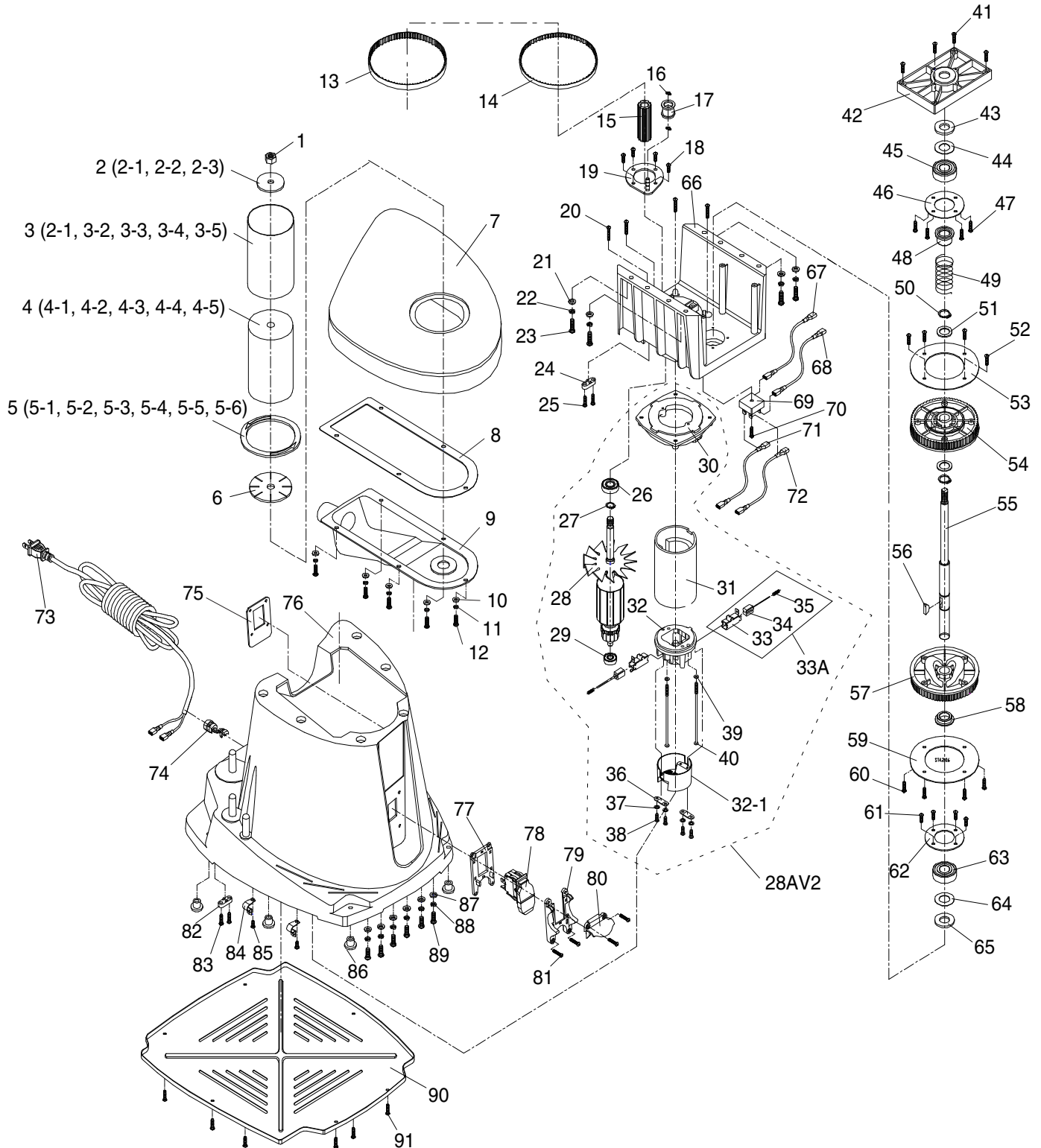
Wiring Diagram



SECTION 9: PARTS

We do our best to stock replacement parts when possible, but we cannot guarantee that all parts shown are available for purchase. Call (800) 523-4777 or visit www.grizzly.com/parts to check for availability.

Main Breakdown



Main Parts List

REF	PART #	DESCRIPTION	REF	PART #	DESCRIPTION
1	P0739001	SPINDLE HEX NUT M10-1.5	35	P0739035	BRUSH SPRING
2	P0739002	SPINDLE WASHER SET OF 3	36	P0739036	CORD CLAMP
2-1	P0739002-1	SPINDLE WASHER 5/8" OD	37	P0739037	INT TOOTH WASHER 4MM
2-2	P0739002-2	SPINDLE WASHER 7/8" OD	38	P0739038	TAP SCREW M4 X 14
2-3	P0739002-3	SPINDLE WASHER 1-3/4" OD	39	P0739039	FLAT WASHER 4MM
3	P0739003	SANDING SLEEVE SET OF 6	40	P0739040	TAP SCREW M4 X110
3-1	P0739003-1	SANDING SLEEVE 1/2"	41	P0739041	TAP SCREW M4 X 20
3-2	P0739003-2	SANDING SLEEVE 3/4"	42	P0739042	BEARING COVER
3-3	P0739003-3	SANDING SLEEVE 1"	43	P0739043	FELT WASHER
3-4	P0739003-4	SANDING SLEEVE 1-1/2"	44	P0739044	RUBBER WASHER
3-5	P0739003-5	SANDING SLEEVE 2"	45	P0739045	BALL BEARING 6203ZZ
3-6	P0739003-6	SANDING SLEEVE 3"	46	P0739046	UPPER BEARING SUPPORT
4	P0739004	SANDING DRUM SET OF 5	47	P0739047	TAP SCREW M4 X 16
4-1	P0739004-1	SANDING DRUM 3/4"	48	P0739048	BEARING SLEEVE
4-2	P0739004-2	SANDING DRUM 1"	49	P0739049	COMPRESSION SPRING
4-3	P0739004-3	SANDING DRUM 1-1/2"	50	P0739050	EXT RETAINING RING 17MM
4-4	P0739004-4	SANDING DRUM 2"	51	P0739051	SPINDLE WASHER
4-5	P0739004-5	SANDING DRUM 3"	52	P0739052	TAP SCREW M4 X 14
5	P0739005	TABLE INSERT SET OF 6	53	P0739053	DRIVE GEAR PLATE
5-1	P0739005-1	TABLE INSERT 1/2" ID	54	P0739054	DRIVE GEAR
5-2	P0739005-2	TABLE INSERT 3/4" ID	55	P0739055	SPINDLE
5-3	P0739005-3	TABLE INSERT 1" ID	56	P0739056	WOODRUFF KEY
5-4	P0739005-4	TABLE INSERT 1-1/2" ID	57	P0739057	DIFFERENTIAL GEAR
5-5	P0739005-5	TABLE INSERT 2" ID	58	P0739058	BEARING SLEEVE
5-6	P0739005-6	TABLE INSERT 3" ID	59	P0739059	DIFFERENTIAL GEAR PLATE
6	P0739006	BASE WASHER 2-3/4" OD	60	P0739060	TAP SCREW M4 X 14
7	P0739007	CAST IRON TABLE	61	P0739061	TAP SCREW M4 X 14
8	P0739008	GASKET	62	P0739062	LOWER BEARING SUPPORT
9	P0739009	DUST COVER	63	P0739063	BALL BEARING 6203ZZ
10	P0739010	FLAT WASHER 5MM	64	P0739064	RUBBER WASHER
11	P0739011	LOCK WASHER 5MM	65	P0739065	FELT WASHER
12	P0739012	PHLP HD SCR M5-.8 X 12	66	P0739066	GEAR SUPPORT
13	P0739013	TIMING BELT 3/8" X 160XL	67	P0739067	WIRE ASSEMBLY 18G 1W 9"
14	P0739014	TIMING BELT 1/4" X 160XL	68	P0739068	WIRE ASSEMBLY 18G 1W 9"
15	P0739015	DRIVE PULLEY	69	P0739069	RECTIFIER
16	P0739016	TENSION ROLLER WASHER	70	P0739070	TAP SCREW M4 X 20
17	P0739017	TENSION ROLLER ASSEMBLY	71	P0739071	WIRE ASSEMBLY 18G 1W 6"
18	P0739018	TAP SCREW M4 X 14	72	P0739072	WIRE ASSEMBLY 18G 1W 6"
19	P0739019	ORIENTATION PLATE ASSEMBLY	73	P0739073	POWER CORD 18G 2W 6" 1-15
20	P0739020	TAP SCREW M4 X 20	74	P0739074	STRAIN RELIEF 6N-4
21	P0739021	FLAT WASHER 6MM	75	P0739075	REAR SWITCH PLATE
22	P0739022	LOCK WASHER 6MM	76	P0739076	HOUSING BASE
23	P0739023	PHLP HD SCR M6-1 X 16	77	P0739077	FRONT SWITCH PLATE
24	P0739024	CORD CLAMP	78	P0739078	SAFETY PADDLE SWITCH
25	P0739025	TAP SCREW M4 X 16	79	P0739079	SWITCH BRACKET
26	P0739026	BALL BEARING 6001ZZ	80	P0739080	SWITCH BRACKET COVER
27	P0739027	EXT RETAINING RING 13MM	81	P0739081	PHLP HD SCR M4-.7 X 16
28AV2	P0739028AV2	MOTOR ASSEMBLY V2.06.15	82	P0739082	POWER CORD HOLDER
28	P0739028	ARMATURE ASSEMBLY	83	P0739083	TAP SCREW M4 X 16
29	P0739029	BALL BEARING 608ZZ	84	P0739084	CABLE HOLDER 18G
30	P0739030	CONNECTION PLATE	85	P0739085	TAP SCREW M4 X 10
31	P0739031	FIELD ASSEMBLY	86	P0739086	RUBBER FOOT
32	P0739032	REAR COVER	87	P0739087	FLAT WASHER 6MM
32-1	P0739032-1	VENTED MOTOR COVER	88	P0739088	LOCK WASHER 6MM
33A	P0739033A	MOTOR BRUSH ASSEMBLY 1 PAIR	89	P0739089	PHLP HD SCR M6-1 X 16
33	P0739033	BRUSH HOLDER	90	P0739090	BOTTOM PLATE
34	P0739034	CARBON BRUSH	91	P0739091	TAP SCREW M4 X 14



Labels Breakdown



REF	PART #	DESCRIPTION
92	P0739092	WARNING LABEL
93	P0739093	ID LABEL

REF	PART #	DESCRIPTION
94	P0739094	MACHINE HAZARDS LABEL
99	P0739099	ELECTRICITY LABEL

⚠ WARNING

Safety labels help reduce the risk of serious injury caused by machine hazards. If any label comes off or becomes unreadable, the owner of this machine **MUST** replace it in the original location before resuming operations. For replacements, contact (800) 523-4777 or www.grizzly.com.





WARRANTY CARD

Name _____
 Street _____
 City _____ State _____ Zip _____
 Phone # _____ Email _____
 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?

<input type="checkbox"/> Advertisement	<input type="checkbox"/> Friend	<input type="checkbox"/> Catalog
<input type="checkbox"/> Card Deck	<input type="checkbox"/> Website	<input type="checkbox"/> Other:

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

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

3. What is your annual household income?

<input type="checkbox"/> \$20,000-\$29,000	<input type="checkbox"/> \$30,000-\$39,000	<input type="checkbox"/> \$40,000-\$49,000
<input type="checkbox"/> \$50,000-\$59,000	<input type="checkbox"/> \$60,000-\$69,000	<input type="checkbox"/> \$70,000+

4. What is your age group?

<input type="checkbox"/> 20-29	<input type="checkbox"/> 30-39	<input type="checkbox"/> 40-49
<input type="checkbox"/> 50-59	<input type="checkbox"/> 60-69	<input type="checkbox"/> 70+

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

<input type="checkbox"/> 0-2 Years	<input type="checkbox"/> 2-8 Years	<input type="checkbox"/> 8-20 Years	<input type="checkbox"/> 20+ Years
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6. How many of your machines or tools are Grizzly?

<input type="checkbox"/> 0-2	<input type="checkbox"/> 3-5	<input type="checkbox"/> 6-9	<input type="checkbox"/> 10+
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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: _____

FOLD ALONG DOTTED LINE



Place
Stamp
Here



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



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Send a Grizzly Catalog to a friend:

Name _____
Street _____
City _____ State _____ Zip _____

TAPE ALONG EDGES--PLEASE DO NOT STAPLE

WARRANTY & 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.

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