

MODEL G2790 UNIVERSAL KNIFE GRINDER

OWNER'S MANUAL

(For models manufactured since 04/13)



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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.



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

Manual Accuracy

We are proud to offer this document with your new machine! We've made every effort to be exact with the instructions, specifications, drawings, and photographs of the machine we used when writing this manual. However, sometimes we still make an occasional mistake.

Also, owing to our policy of continuous improvement, your machine may not exactly match the manual. If you find this to be the case, and the difference between the manual and machine leaves you in doubt, immediately call our technical support for updates or clarification.

For your convenience, we post all available documentation on our website at **www.grizzly.com**. Any updates to this document will be reflected on our website as soon as complete.

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 1815 W. Battlefield Springfield, MO 65807 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

Functional Overview

The Model G2790 is a dry grinder and is not designed to be used with cutting fluids.

This grinder is designed to sharpen cutting tools up to 20" long, such as chisels with a straight edge or jointer/planer knives, that can be securely mounted in one of the two clamping systems. The cutting tool can be positioned at angles from 15° to 90° to the grinding wheel.

Refer to **Figures 1–2** for examples of typical grinding setups.



Figure 1. Example of a grinding setup for a chisel.

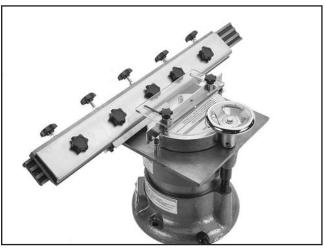


Figure 2. Example of grinding setup for jointer knife (shown without adjustable guard for clarity).



Identification

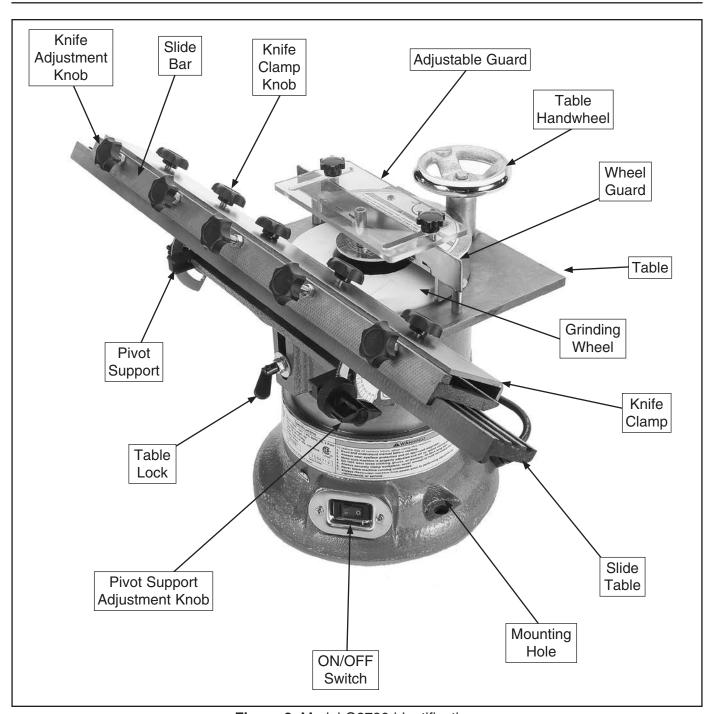


Figure 3. Model G2790 identification.







MACHINE DATA SHEET

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MODEL G2790 UNIVERSAL KNIFE GRINDER

Product Dimensions:	
Weight	45 lbs.
Length/Width/Height	24" x 11½" x 13"
Foot Print (Length/Width)	9" Circle
Shipping Dimensions:	
Type	Cardboard
Content	Machine
Weight	59 lbs.
Box 1 Length/Width/Height	20" x 13" x 13"
Box 2 Length/Width/Height	26" x 5" x 3"
Electrical:	
Switch	ON/OFF Toggle
Switch Voltage	
Cord Length	
Cord Gauge	18 gauge
Minimum Circuit Requirement	
Included Plug	NEMA 5-15
Motor:	
Type	TEEC Canacitor Start Induction
Horsepower	
Voltage	110V
Phase	Single
Amps	
Speed	
Cycle	
Power Transfer	Direct Drive

Bearings Shielded and Permanently Sealed



Capacities

Maximum Blade Length	
Table Tilt	
Grinding Wheel Specifications:	
Туре	
Diameter	6"
Thickness	1½"
Bore	
Construction:	
Base	
Table	
Other Specifications:	
Country of Origin	Taiwan
Warranty	1 Year
Serial Number Location	1 Year ID Label on Front of Motor
Approximate Assembly/Setup Time	15 Minutes

Features:

Knife Holder Adjusts From $20^{\circ}-70^{\circ}$ 120 Grit Aluminum Oxide Grinding Stone Raises and Lowers



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.



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

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

ACAUTION

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

Alerts the user to useful information about proper operation of the machine to avoid machine damage.

Safety Instructions for Machinery

AWARNING

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 your 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.



AWARNING

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.



Additional Safety for Universal Knife Grinders

AWARNING

Serious injury or death can occur from impact injuries. Rotating grinding wheels can easily remove skin, or entanglement/amputation injuries can occur from being caught in moving parts or in-running pinch points. Flying sparks can ignite explosive or flammable materials. To minimize risk of getting hurt or killed, anyone operating machine MUST completely heed hazards and warnings below.

EYE PROTECTION. Grinding causes small particles to become airborne at a high rate of speed. ALWAYS wear safety glasses or face shield when using this machine.

MOUNTING TO WORKBENCH. An unsecured grinder may become dangerously out of control during operation. Make sure the grinder is FIRMLY secured to the workbench.

WHEEL SPEED RATING. Wheels operated at a faster speed than they are rated for may fly apart during use. Before mounting a new wheel, be sure the wheel RPM rating is equal to or higher than the speed of the grinder—3500 RPM.

WHEEL FLANGES. When mounting wheels only use the wheel flanges that are included with this grinder. Other flanges may not properly secure the wheel and will increase the risk of the wheel flying apart during operation.

WHEEL INSPECTION. Visually inspect the wheel and perform the "ring test" before installation to ensure that it is safe to use. A wheel that does not pass the ring test may fly apart during operation—DO NOT use it!

DRY GRINDING. This grinder is not designed to work with cutting fluids. DO NOT use cutting fluids, and keep all liquids away from the grinder to reduce the risk of electrocution.

STARTING GRINDER. If a grinding wheel is damaged, it will usually fly apart shortly after start-up. Never start the grinder with the wheel above the surface of the grinder table. Stand clear of the grinder after starting it and wait for at least one minute before standing in front of it.

LUNG PROTECTION. Grinding produces hazardous dust, which may cause long-term respiratory problems if breathed. ALWAYS wear a NIOSH-approved dust mask or respirator when grinding.

HAND/WHEEL CONTACT. Grinding wheels have the capability of removing a lot of skin quickly. Keep a firm grip on the tool or slide bar and position your hands at a safe distance away from the wheel when grinding. Do not wear gloves when grinding as they may get caught in the wheel and cause serious entanglement injuries.

GUARDS & SUPPORTS. Always keep the wheel guard secured in place when operating the grinder. Always keep the cutting tool firmly clamped before starting the machine. Correctly position and lock the pivot support before turning the grinder **ON.**

EXPERIENCING DIFFICULTIES. If at any time you are experiencing difficulties performing the intended operation, stop using the machine and contact Tech Support at (570) 546-9663.



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.



AWARNING

Electrocution, fire, shock, or equipment damage may occur if machine is not properly grounded and connected to power supply.

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 110V......3A

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 specified circuit requirements.

AWARNING

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

110V Circuit Requirements

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

Nominal Voltage	110V
Cycle	60 Hz
Phase	Single-Phase
Power Supply Circuit	15A

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.)

ACAUTION

For your own safety and protection of property, consult an electrician if you are unsure about wiring practices or electrical codes in your area.

Note: Circuit requirements in this manual apply to a dedicated circuit—where only one machine will be running on the circuit at a time. If machine will be connected to a shared circuit where multiple machines may be running at the same time, consult an electrician or qualified service personnel to ensure circuit is properly sized for safe operation.



Grounding & Plug Requirements

This machine MUST be grounded. In the event of certain malfunctions or breakdowns, grounding reduces the risk of electric shock by providing a path of least resistance for electric current.

This machine is equipped with a power cord that has an equipment-grounding wire and a grounding plug. Only insert plug into a matching receptacle (outlet) that is properly installed and grounded in accordance with all local codes and ordinances. DO NOT modify the provided plug!

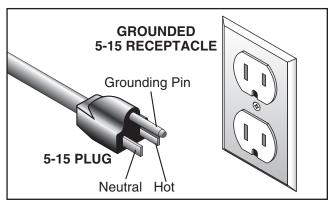
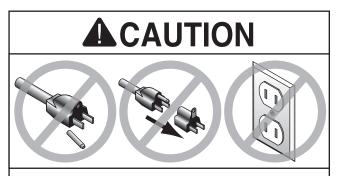


Figure 4. Typical 5-15 plug and receptacle.



SHOCK HAZARD!

Two-prong outlets do not meet the grounding requirements for this machine. Do not modify or use an adapter on the plug provided—if it will not fit the outlet, have a qualified electrician install the proper outlet with a verified ground.

Improper connection of the equipment-grounding wire can result in a risk of electric shock. The wire with green insulation (with or without yellow stripes) is the equipment-grounding wire. If repair or replacement of the power cord or plug is necessary, do not connect the equipment-grounding wire to a live (current carrying) terminal.

Check with a qualified electrician or service personnel if you do not understand these grounding requirements, or if you are in doubt about whether the tool is properly grounded. If you ever notice that a cord or plug is damaged or worn, disconnect it from power, and immediately replace it with a new one.

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.

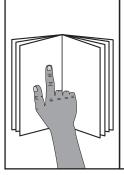
Extension cords cause voltage drop, which can damage electrical components and shorten motor life. Voltage drop increases as the extension cord size gets longer and the gauge size gets smaller (higher gauge numbers indicate smaller sizes).

Any extension cord used with this machine must be in good condition and contain a ground wire and matching plug/receptacle. Additionally, it must meet the following size requirements:

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



SECTION 3: SETUP



AWARNING

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!



AWARNING

Wear safety glasses during the entire setup process!

Needed for Setup

The following items are needed, but not included, for the setup/assembly of this machine.

Des	scription	Qty
•	Rags & Solvent	As Needed
•	Mounting Hardware (Page 1	4) As Needed
•	Open-End Wrench 12mm	
•	Hex Wrench 4mm	

Unpacking

This machine was carefully packaged for safe transport. When unpacking, separate all enclosed items from packaging materials and inspect them for shipping damage. *If items are damaged, please call us immediately at (570) 546-9663.*

IMPORTANT: Save all packaging materials until you are completely satisfied with the machine and have resolved any issues between Grizzly or the shipping agent. You MUST have the original packaging to file a freight claim. It is also extremely helpful if you need to return your machine later.



AWARNING

SUFFOCATION HAZARD! Keep children and pets away from plastic bags or packing materials shipped with this machine.



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.

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.

Во	x 1 Contents (Figure 5)	Qty
Α.	Grinding Assembly w/Pivot Support	1
B.	Wheel Dressing Stone	1
C.	Wheel Dressing Tool Holder	1
D.	Star Knobs 1/4"-20 x 1/2"	2
E.	Flat Washers 1/4"	2
F.	Adjustable Guard	1
G.	Star Knobs 1/4"-20 x 23/4"	5
H.	Star Knobs 1/4"-20 x 7/8"	5
l.	O-Rings 6 x 2mm	5
	Hex Nuts 1/4"-20	

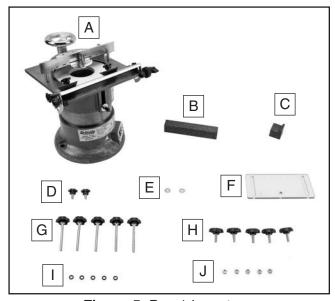


Figure 5. Box 1 inventory.

Box	c 2 Contents	(Figure 6)	Qty
K.	Slide Table		1
L.	Slide Bar		1
Μ.	Knife Clamp.		1

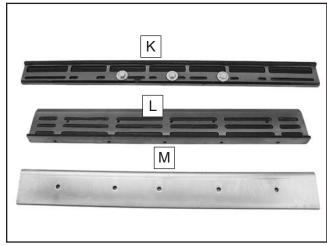


Figure 6. Box 2 inventory.



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.
- 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.

NOTICE

Avoid harsh solvents like acetone or brake parts cleaner that may damage painted surfaces. Always test on a small, inconspicuous location first

Site Considerations

Workbench Load

Refer to the **Machine Data Sheet** for the weight and footprint specifications of your machine. Some workbenches may require additional reinforcement to support the weight of the machine and workpiece materials.

Placement Location

Consider anticipated workpiece sizes and additional space needed for auxiliary stands, work tables, or other machinery when establishing a location for this machine in the shop. Below is the minimum amount of space needed for the machine.

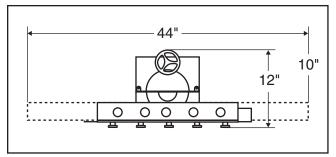
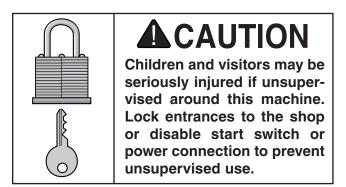


Figure 7. Minimum working clearances.





Mounting

Number of Mounting Holes2 Diameter of Mounting Hardware Needed .. ½"

The vibration and forces applied during operation could cause the grinder to unexpectedly move and greatly increase the risk of serious personal injury. You MUST firmly mount your grinder to a stable and flat surface that will not move during operation.

Note: The rubber feet provide vibration absorption for the grinder. We recommend that you keep them on the machine when you mount it to the workbench.

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.

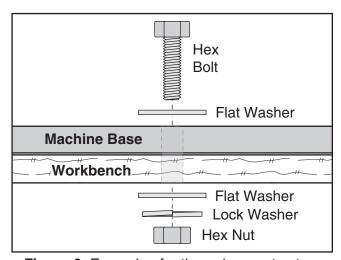


Figure 8. Example of a through mount setup.

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

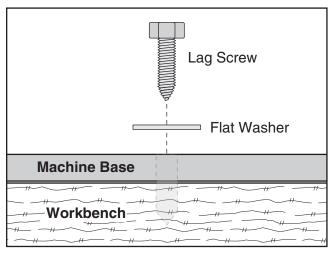


Figure 9. Example of a direct mount setup.



Assembly

The machine must be fully assembled before it can be operated. Before beginning the assembly process, refer to **Needed for Setup** and gather all listed items. To ensure the assembly process goes smoothly, first clean any parts that are covered or coated in heavy-duty rust preventative (if applicable).

The adjustable guard reduces the risk of injury by shielding the user from flying sparks/debris and preventing fingers from contacting the grinding wheel during operation. Once you install the guard, you will need to adjust it according to the needs of your operation.

To assemble your machine:

Install adjustable guard on pre-installed wheel guard using (2) ½"-20 x ½" star knobs and (2) ½" flat washers, as shown in Figure 10.

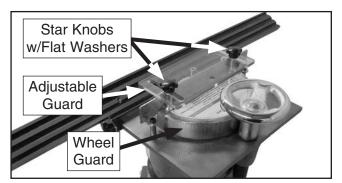


Figure 10. Adjustable guard installed (slide bar, knife clamp installed for illustration purposes).

2. Loosen star knobs, position adjustable guard approximately ½" away from knife clamp or stationary clamp, then tighten star knobs to secure setting (see Figure 11). Refer to Page 20 or Page 22 for detailed instructions on installing the stationary clamps and knife clamp.

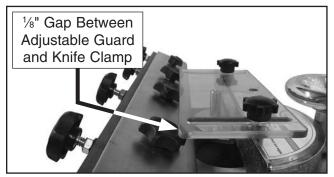


Figure 11. Adjustable guard adjusted to approximately ½" from knife clamp.

3. If necessary, adjustable guard may also be set up at an angle to the wheel guard (see **Figure 12**).

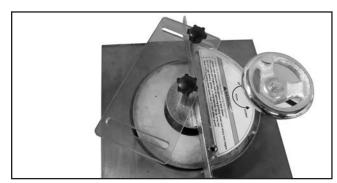


Figure 12. Adjustable guard alternate setup (knife clamp removed for illustration purposes).

Test Run

Once assembly is complete, test run the machine to ensure it is properly connected to power and safety components are functioning correctly.

If you find an unusual problem during the test run, immediately stop the machine, disconnect it from power, and fix the problem BEFORE operating the machine again. The **Troubleshooting** table in the **SERVICE** section of this manual can help.

AWARNING

Serious injury or death can result from using this machine BEFORE understanding its controls and related safety information. DO NOT operate, or allow others to operate, machine until the information is understood.

AWARNING

DO NOT start machine until all preceding setup instructions have been performed. Operating an improperly set up machine may result in malfunction or unexpected results that can lead to serious injury, death, or machine/property damage.

To test run machine:

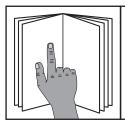
- 1. Clear all setup tools away from machine.
- 2. Connect machine to power supply.
- 3. Turn machine ON.

Listen to and watch for abnormal noises or actions. The machine should run smoothly with little or no vibration or rubbing noises.

- —Strange or unusual noises should be investigated and corrected before operating the machine further. Always disconnect the machine from power when investigating or correcting potential problems.
- 4. Turn machine OFF.



SECTION 4: OPERATIONS



AWARNING

To reduce your risk of serious injury, read this entire manual BEFORE using machine.

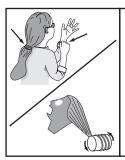
AWARNING

Eye injuries, respiratory problems, or hearing loss can occur while operating this tool. Wear personal protective equipment to reduce your risk from these hazards.









AWARNING

Keep hair, clothing, and jewelry away from moving parts at all times. Entanglement can result in death, amputation, or severe crushing injuries!

NOTICE

If you are not experienced with this type of machine, WE STRONGLY RECOMMEND that you seek additional training outside of this manual. Read books/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.

Grinding Tips

The grinder is a safe tool when used properly. In addition to the safety instructions in this manual, the most important safety consideration is to use common sense at all times.

Follow these rules when grinding:

- Make sure the wheel guard and blade supports are correctly mounted and secure.
- Remember that grinding often produces sparks. DO NOT allow anyone to stand in the path of the sparks without protective clothing and equipment. DO NOT grind near flammable materials.
- Maintain proper care of your wheels. Refer to Wheel Care on Page 18 for detailed instructions.
- Wear the proper protective clothing. Particles flying from the grinding wheel are traveling at a high rate of speed—prepare for this!
 Wear safety glasses/face shield, a NIOSH approved dust mask or respirator, ear protection, a leather apron, and heavy leather boots.
- Grasp the workpiece or support firmly. Maintain even pressure and control of the workpiece, especially when using the slide bar.
- To avoid overheating the tool, grind the cutting tool with multiple light passes instead of one heavy operation.
- Concentrate on the task at hand. STOP grinding if other people are distracting you or your mind is on something else.
- To some, correctly grinding cutting tools is an art. If you are not familiar with this process, get help from an experienced person or read books to become familiar with the correct procedures required to sharpen your tools.



Wheel Selection

Your Model G2790 uses only Type 5 grinding wheels that have a $\frac{1}{2}$ " bore and are 6" in diameter and $\frac{1}{2}$ " thick, similar to the one included with your grinder. Refer to **Accessories** on **Page 24** for options from Grizzly.

Aluminum oxide and silicon carbide wheels are typically marked in a uniform manner by all major manufacturers. Understanding these markings will help you understand the capabilities of various wheels.

The typical format for wheel numbering is:

Туре	Abrasive Type	Grit Size	Grade	Bond Type
5	Α	100	K	V

- Type: Refers to a particular wheel configuration, such as Type 5, which has a recessed center for the top-mounting flange.
- Abrasive Type: Refers to the abrasive grain
 of the wheel. The most common types are A
 for aluminum oxide, C for silicon carbide, and
 SG for seeded gel.
- Grit Size: Refers to the size of the abrasive grain in the wheel. The lower the number, the coarser the wheel.
- Grade: Indicates the hardness of the wheel with A being the softest and Z being the hardest.
- Bond Type: Refers to the type of bonding material used to hold the abrasive grain. Most general-purpose wheels will have a V, indicating vitrified clay, which provides high strength and good porosity. The other common bond type is B for synthetic resins, which are generally used to grind cemented carbide and ceramic materials.

Note: There may be other numbers or letters that have meaning for a particular type of wheel. Always refer to the manufacturer's technical data for a complete explanation when choosing a grinding wheel.

Wheel Care

Your safety when grinding depends, in a large part, on the condition of the wheel during operation. A wheel in poor condition increases the risk of it flying apart while spinning and injuring the operator or causing property damage.

Follow these rules to reduce the risk of breaking the wheel:

- Always transport, store, and handle wheels with care. Wheels could be damaged if they are dropped or if heavy objects are stacked on them.
- Select the right grinding wheel for the job. DO NOT grind materials that are not correct for the wheel type.
- Select the right grinding wheel for the machine.
 If a grinding wheel rotates faster than its RPM rating, it could fly apart during operation.
- Mount the wheels properly (refer to Wheel Replacement on Page 28 for detailed instructions). Never use a wheel with the wrong bore size for the machine.
- Do not abuse the wheel by jamming the work into the grinding wheel with excessive force or by allowing the workpiece to become overly hot during operation.
- Do not store wheels in a damp or wet location that will damage the bonding material.
- Replace the wheel when it becomes less than ½ of its original thickness or less than ¾".
- Use only the wheel flanges that are included with for your grinder.
- To ensure good grinding results, dress the wheel often (refer to Wheel Dressing on Page 27 for detailed instructions).
- Always visually inspect and perform the ring test before installing any grinding wheel (refer to Wheel Inspection & Ring Test on Page 19 for detailed instructions).



Wheel Inspection & Ring Test

Do not assume that a grinding wheel is in sound condition just because it is new or looks okay. Often damage can occur in shipping, with age, or with exposure to moisture, and may not be visible. Inspect every wheel for damage before installation.

First, do a visual inspection. Look for any cracks, chips, nicks or dents in the surface of the wheel. If you see any of these, DO NOT use the wheel.

Second, do a ring test. This test will give you an indication of any internal damage that may not be obvious during a visual inspection. If the wheel does not pass the ring test, DO NOT use the wheel.

To perform a ring test:

- Make sure the wheel that you test is clean and dry—otherwise, you may get false results.
- 2. If size permits, balance the wheel with your finger in the center hole. If this is not possible, hang the wheel in the air with a piece of cord or string looped through the center hole.
- **3.** At the four spots on the wheel shown in **Figure 13**, gently tap the wheel with a non-metallic object, such as a screwdriver handle or wooden mallet.

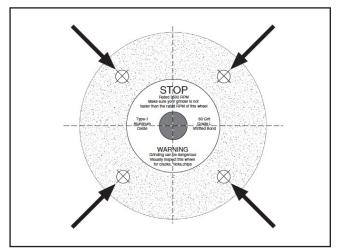


Figure 13. Tapping locations for a ring test.

- 4. An undamaged wheel will emit a clear metallic ring or "ping" sound in each of the four spots. A damaged wheel will respond with a dull thud that has no clear tone.
 - —If you determine from the results of the ring test that the wheel is damaged, DO NOT use it!

Mounting Pivot Support

The pivot support is used to hold the stationary clamps for narrow tools and the slide table and bar for wide knives.

To mount the pivot support on the grinder table:

- DISCONNECT MACHINE FROM POWER!
- Loosen the four lock knobs on the sides of the pivot support, then slide the support flanges onto the table, as shown in Figure 14.

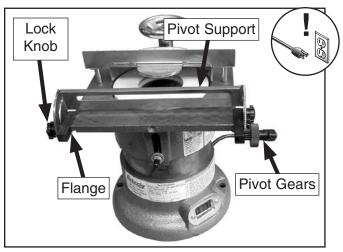


Figure 14. Pivot support installed.

3. Use the knurled wheel of the pivot gear to set the correct angle for your operation, then tighten all four lock knobs.



Sharpening Narrow Tools

The stationary clamps mounted on the pivot support hold tools with narrow cutting widths, such as chisels, that have a beveled edge which can be squarely aligned with the flat of the wheel, as shown in **Figure 15**.

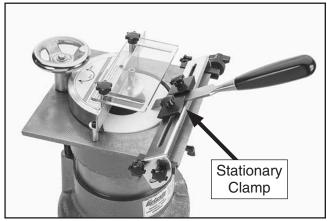


Figure 15. Stationary clamps holding a narrow tool.

To sharpen a narrow tool bevel:

- DISCONNECT MACHINE FROM POWER!
- 2. Install the pivot support onto the grinder table with the two stationary clamps attached.
- 3. Center the tool on the pivot support between the clamps, slide them together to firmly hold the tool, then tighten their knobs to secure them in place, as shown in **Figure 15**.
- 4. Loosen the table lock, then use the table handwheel to lower the grinder table until the top surface of the wheel is even with the table.
- 5. Adjust the angle of the pivot support and its position on the table and in the clamps so that the tool bevel just makes contact with the wheel, as shown in Figure 15, then make sure the stationary clamps and four pivot support lock knobs are tight.

- **6.** Once you are satisfied with the position of the tool relative to the wheel, raise the grinder table slightly above the wheel, then turn the grinder *ON*.
- 7. While firmly holding the tool on the pivot support, slowly and carefully lower the grinder table until the tool contacts the wheel to begin sharpening the tool.

Note: Keep in mind that with a dry grinding operation, tools can heat up quickly and lose their temper. Sharpening should be done in light passes and for short durations to avoid damaging the tool or wheel.

Tip: Apply marker ink to the full beveled surface of the tool to help verify when the tool is properly ground. Also, a fine straightedge held to the bevel will show any variations.

ACAUTION

Cutting tools are dangerously sharp, especially after sharpening. Use extreme caution when handling these tools to reduce the risk of personal injury.

Sharpening Wide Knives

Wide knives, such as jointer and planer blades, are firmly held in the slide bar assembly that is then mounted on the slide table above the wheel.

Tools Needed	Qty
Wrench 10mm	1
Wrench or Socket 12mm	1
Fine Ruler	1

To sharpen wide knives:

- DISCONNECT MACHINE FROM POWER!
- 2. Remove the adjustable guard.



3. Then place the slide table on a flat surface and remove the three hex bolts and flat washers, as shown in **Figure 16**.

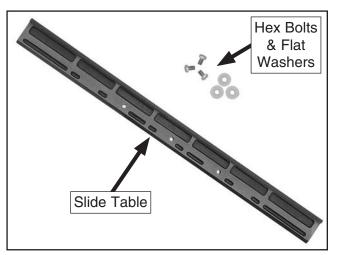


Figure 16. Slide table dismantled.

4. Remove the pivot support from the machine, then secure it to the back of the slide table with the three hex nuts and flat washers removed in **Step 3**, as shown in **Figure 17**.

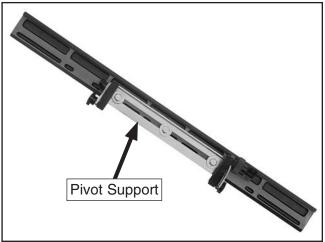


Figure 17. Pivot support attached to the slide table.

5. Re-attach the pivot support to the grinder table so that the flat surface of the slide table is facing the wheel, as shown in **Figure 18**.

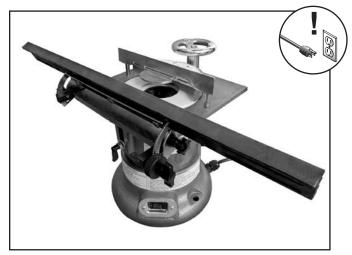


Figure 18. Pivot support and slide table assembly properly attached to the grinder.

CAUTION

Cutting tools are dangerously sharp, especially after sharpening. Use extreme caution when handling these tools to reduce the risk of personal injury.

6. Install (5) ½"-20 x 2¾" knife adjustment knobs on the slide bar, each with (1) O-ring and (1) ½"-20 hex nut. Then back the adjustment knobs out enough so that the knife can be positioned in the middle of the slide bar and even with its front edge, as shown in Figure 19.

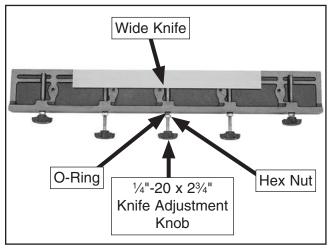


Figure 19. Wide knife placed on the slide bar even with the front edge.



ACAUTION

A wide knife must be centered on the slide bar and be supported by at least two adjustment knobs to reduce the risk of the knife coming loose during operation and causing personal injury or property damage.

7. Using a fine ruler, tighten the adjustment knobs to force the knife forward so that it extends beyond the front edge of the slide bar approximately 1/4" along its full length, as shown in Figure 20.

Note: The distance the knife extends beyond the slide bar may vary depending on the angle required to grind the bevel. However, make sure the slide bar will not make contact with the grinding wheel during operation to prevent damaging the bar.

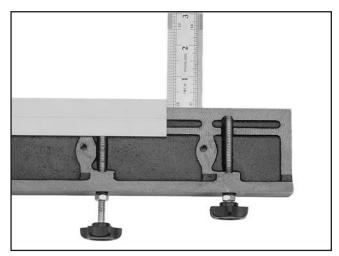


Figure 20. Extending the knife beyond the front edge of the slide bar.

8. When you are satisfied that the knife extends beyond the slide bar the same amount along its length and that the supporting adjustment knobs are all making even contact with the back of the knife, re-tighten the jam nuts and attach the knife clamp to the slide bar with (5) 1/4"-20 x 7/8" knife clamp knobs, as shown in Figure 21.

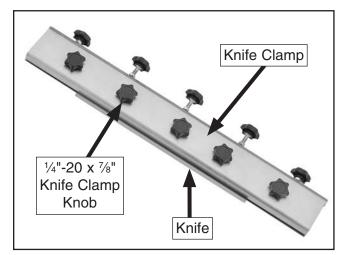


Figure 21. Knife clamped to the slide bar.

- **9.** Use the fine ruler to re-check the distance the knife extends from the slide bar.
 - —If the distance is not correct or the same along the full length of the knife, slightly loosen the knife clamp knobs and adjust the knife adjustment knobs until the extended distance is correct. Then, re-tighten the jam nuts and knife clamp knobs and check the distance again. If necessary, repeat this process until the distance is correct and the knife is securely clamped.



ACAUTION

Make sure the grinding wheel is more than 1/4" below the lowest point of the wheel guard to avoid the risk of the wheel and guard making contact resulting in the wheel breaking apart and possibly causing serious personal injury.

10. Carefully place the slide bar assembly on the slide table, as shown in Figure 22, loosen the table lock, then lower the grinder table until the wheel just makes contact with the knife.

Note: Make sure the grinder table and the top wheel surface are level with each other. You may have to push down or pull up on one side of the grinder table to make them level with each other.

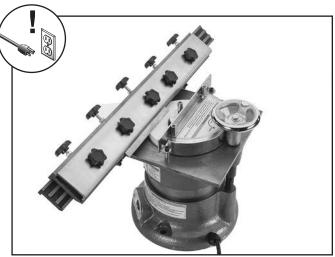


Figure 22. Slide bar assembly and knife mounted on the grinder.

- **11.** Use the slide bar to slowly move the blade across the wheel from one side to the other and note the movement of the wheel.
 - —If the wheel moves evenly when the knife moves across it from one end to the other, continue with **Step 12**.

- —If the wheel does not move evenly when the knife slides across it from one end to the other, either the knife is not evenly mounted in the slide bar or the surface of the wheel is not level with the grinder table. To ensure good grinding results, you must make the knife bevel level and parallel with the wheel surface along its entire length before continuing with this procedure. Refer to the **Troubleshooting** chart on **Page 29** for possible solutions.
- 12. Once you are satisfied with the position of the knife relative to the wheel, raise the grinder table until the wheel is below the table surface, then move the slide bar so that the end of the knife is over the right hand side of the wheel, as shown in **Figure 23**.

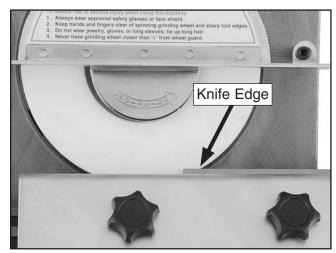


Figure 23. Knife positioned over the right side of the wheel (guard not shown for clarity).

- **13.** Re-install the adjustable guard, then turn the grinder *ON*.
- **14.** Slowly lower the grinder table until the knife and wheel just make contact, then slowly slide the knife across the wheel.
 - —If contact does not seem smooth and consistent between the knife and the wheel, turn the grinder *OFF* and repeat **Steps** 5–14 until it is.

Note: Keep in mind that with a dry grinding operation, the knife can heat up quickly and lose its temper. Sharpening should be done in light passes and for short durations to avoid damaging the knife or wheel.



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.

G7416—Type 5 Grinding Wheel, 120 Grit G7417—Type 5 Grinding Wheel, 180 Grit G7418—Type 5 Grinding Wheel, 220 Grit G7419—Type 5 Grinding Wheel, 320 Grit Aluminum oxide abrasive grain, 6" x 1½", ½" bore.

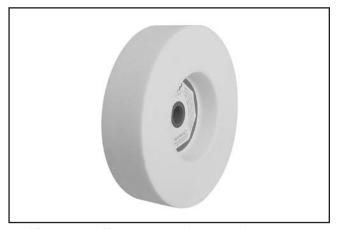


Figure 24. Type 5 aluminum oxide grinding wheel.

H2499—Small Half-Mask Respirator H3631—Medium Half-Mask Respirator H3632—Large Half-Mask Respirator H3635—Cartridge Filter Pair P100

Wood dust has been linked to nasal cancer and severe respiratory illnesses. If you work around dust everyday, a half-mask respirator can be a lifesaver. Also compatible with safety glasses!



Figure 25. Half-mask respirator with disposable cartridge filters.

T20502—Face Shield Crown Protector 7"
T20503—Face Shield Window
T20451—"Kirova" Clear Safety Glasses
T20452—"Kirova" Anti-Reflective Glasses
H7194—Bifocal Safety Glasses 1.5
H0736—Shop Fox® Safety Glasses
Those glasses most ANSI 787 1-2003 specifi

These glasses meet ANSI Z87.1-2003 specifications. Buy extras for visitors or employees. You can't be too careful with shop safety!

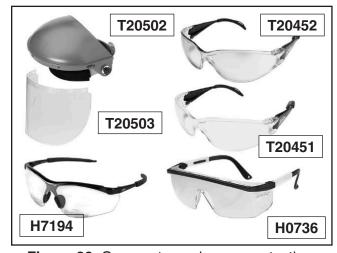


Figure 26. Our most popular eye protection.

Model H5944—#0 Wheel Dresser Model H5945—#1 Wheel Dresser Model H5946—#2 Wheel Dresser

Exposes new grains for aggressive cutting on all types of grinding wheels. Star wheels and discs are hardened steel. Cast iron handle provides stabilizing mass for better control.



Figure 27. Rotary-type dressing tools.

G3092—Diamond Dresser Tool

Industrial diamond dresser tool made especially for dressing the wheels of the G2790 Universal Knife Grinder. Comes with plastic case and protective rubber end cap.



Figure 28. G3092 diamond dresser tool.

D2056—Tool Table

Get that benchtop tool off your bench and put it on this sturdy stand instead! Flared legs and adjustable rubber feet ensure stability and reduce machine vibration. Butcher block finish table top measures 1" x 13" x 23" and is $30\frac{1}{2}$ " from the floor. Bottom measures 21" x 32". 700 lb. capacity!



Figure 29. Tool table.

T23248—Fundamentals of Sharpening Book

This book contains techniques for keeping hand tools like saws, chisels, gouges, and planes razor sharp. It also shows how to extend the life of power tools with well maintained blades and bits. 120 pages.

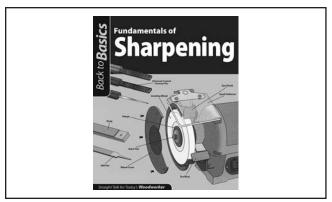


Figure 30. T23248 Fundamentals of Sharpening Book.

SECTION 6: MAINTENANCE



AWARNING

To reduce risk of shock or accidental startup, always disconnect machine from power before adjustments, maintenance, or service.

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 or worn grinding wheel (Page 19).
- Worn or damaged wires.
- Any other unsafe condition.

Daily Maintenance:

- Clean the grinder.
- Check/dress the grinding wheel surface (Page 27).

Cleaning

Cleaning the Model G2790 is relatively easy. Use a vacuum to clean debris and dust from the grinder, then protect the unpainted cast iron surfaces with regular applications of a rust protectant.

Lubrication

The bearings of the motor are factory lubricated and sealed. Simply leave them alone unless they need replacement.

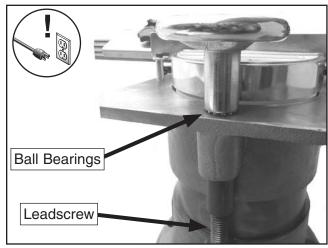


Figure 31. Leadscrew and ball bearings.

Raise the table up to access the full length of the handwheel lead screw, as shown in **Figure 31**. Use a shop rag and mineral spirits to clean off the threads of the leadscrew, then brush or wipe on a thin coat of light machine oil.

Apply a few drops of the same oil to the ball bearings under the handwheel, then move the table up and down to distribute the lubricant.



Wheel Dressing

With use, the surface of the grinding wheel will fill with metal residue and grit. When this happens, the wheel needs to be cleaned or "dressed." The goal of dressing the wheel is to remove the contaminants and make the surface even and flat.

The dressing stone included with your grinder can be used to dress the wheel by carefully holding it against the spinning surface. However, the safest and efficient method of dressing the wheel is to use a diamond dresser (refer to **Accessories** on **Page 24** for options).

To dress the wheel with a diamond dresser:

1. Lower the table so that the grinding wheel is approximately 1/4" above the table surface, then make sure the top surface of the wheel is level with the grinder table.

Note: You may have to push down or pull up on one side of the table to make it even with the wheel.

2. Remove (2) M5-.8 x 35 cap screws, (2) 5mm flat washers, and (2) spacers shown in Figure 32, then remove the wheel guard.

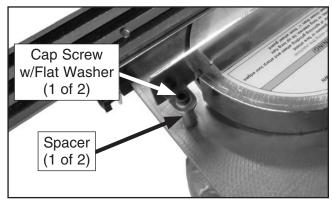


Figure 32. Location of wheel guard fasteners.

- 3. Attach the pivot support (see Figure 33) to the grinder table (refer to instructions on Page 19).
- 4. Place the dresser tool holder on the pivot support, as shown in Figure 33, insert the diamond dresser into the holder until the tip makes contact with the wheel, then tighten the set screw in the holder to secure the dresser tool.

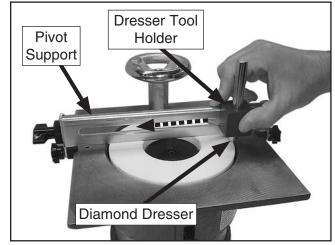


Figure 33. Diamond dresser mounted on pivot support above grinding wheel.

▲CAUTION

Grinding wheels have the capability of removing a lot of skin quickly. Keep a firm grip on the dresser tool and holder, and keep your hands a safe distance away from the spinning wheel.

- Move the dresser tool so that the tip is just outside the wheel's diameter, then turn the grinder ON.
- Slowly move the dresser tool across the wheel, then back to the starting position two to three times.
- 7. Lower the table slightly and repeat **Step 6**.

Note: Several light passes with the dressing tool will produce the best results with the least amount of wear or damage to the wheel or the dressing tool.



Wheel Replacement

When the grinding wheel becomes worn, damaged, or less than $^3\!4$ " thick, you need to replace it

Tools Needed	Qty
Hex Wrench 4mm	1

To replace the grinding wheel:

- DISCONNECT MACHINE FROM POWER!
- **2.** Remove the pivot support and wheel guard from the machine.
- 3. Fully loosen the cap screw in the center of the wheel, then lift the wheel, flange, and cap screw up and off the motor spindle (see Figure 34).



Figure 34. Grinding wheel removed from grinder.

- **4.** Perform the **Wheel Inspection & Ring Test** procedure (**Page 19**) on the new wheel.
- **5.** If the new wheel is acceptable, carefully place it on the motor spindle.
- **6.** Install the top wheel flange and tighten the cap screw to secure the assembly.

Note: Do not over-tighten the wheel mounting cap screw to avoid cracking the wheel.

Replace the wheel guard, then spin the wheel by hand to make sure it does not make contact with the guard or housing.



SECTION 7: SERVICE

Review the troubleshooting 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



Motor & Electrical

Symptom	Possible Cause	Possible Solution
Machine does not	Power supply switched OFF or at fault.	Ensure power supply is on/has correct voltage.
start or a breaker	2. Plug/receptacle at fault/wired wrong.	2. Test for good contacts; correct the wiring.
trips.	3. Start capacitor at fault.	3. Test/replace if faulty.
	4. Motor connection wired wrong.	4. Correct motor wiring connections (Page 32).
	5. Wall circuit breaker tripped.	5. Ensure circuit size is correct/replace weak breaker.
	6. Wiring open/has high resistance.	6. Check/fix broken, disconnected, or corroded wires.
	7. Motor ON/OFF switch at fault.	7. Replace switch.
	8. Motor at fault.	8. Test/repair/replace.
Machine stalls or is	1. Motor wired incorrectly.	1. Wire motor correctly (Page 32).
underpowered.	2. Plug/receptacle at fault.	Test for good contacts/correct wiring.
	3. Motor bearings at fault.	3. Test/repair/replace.
	4. Machine undersized for task.	4. Use new grinding wheel; reduce the depth of cut and
		feed rate.
	5. Contactor not energized/has poor contacts.	5. Test all legs for power/replace if faulty.
	6. Motor overheated.	6. Clean motor, let cool, and reduce workload.
	7. Motor at fault.	7. Test/repair/replace.
Machine has	1. Motor or component loose.	Inspect/replace damaged bolts/nuts, and re-tighten
vibration or noisy		with thread locking fluid.
operation.	2. Grinding wheel at fault; bore hole not	Dress/replace grinding wheel.
	round.	
	3. Incorrectly mounted to workbench.	3. Adjust feet, shim, or tighten mounting hardware.
	4. Motor bearings at fault.	4. Test by rotating shaft; rotational grinding/loose shaft
		requires bearing replacement.
	5. Motor shaft bent.	5. Test with dial indicator and replace motor.



Operation

<u> </u>		
Symptom	Possible Cause	Possible Solution
Wavy pattern on	Machine vibrating.	Shim/tighten mounting hardware.
workpiece surface.	2. Workpiece loose in clamping device.	2. Correctly re-clamp the workpiece.
	3. Wheel face is uneven.	3. Dress the wheel (Page 27).
	4. Wheel grade is too hard.	4. Use softer grade wheel; reduce depth of cut and
		feed rate.
Lines on workpiece	Impurity on wheel surface.	1. Dress the wheel (Page 27).
surface.	2. Workpiece loose in clamping device.	2. Correctly re-clamp the workpiece.
Burned spots	Improper type of grinding wheel.	Use the correct type of grinding wheel (Page 18).
or cracks in	2. Feed rate too slow.	2. Increase feed rate.
workpiece.	3. Depth of cut too great.	3. Reduce depth of cut; take multiple light passes.
	4. Workpiece overheating.	4. Grind in short durations and allow workpiece to cool
		in between.
Wheel dulls quickly,	Depth of cut too great.	Reduce depth of cut; take multiple light passes.
grit falls off.	2. Wheel grade is too soft.	2. Use harder grade of wheel.
	3. Wheel exposed to moisture.	3. Store wheel away from moisture; replace wheel.
	4. Wheel dressed incorrectly.	4. Correctly dress the wheel (Page 27).
	5. Defective wheel bonding.	5. Replace wheel (Page 28).
Wheel clogs and	Wheel grade is too hard.	Use softer grade of wheel.
workpiece shows	2. Feed rate too slow.	2. Increase feed rate.
burn marks.	Wheel dressed incorrectly.	3. Correctly dress the wheel (Page 27).
	4. Workpiece incorrect material.	4. Grind ferrous materials only.
Cutting tool is ground	Tool not properly clamped.	Properly re-clamp tool.
unevenly from one	2. Grinding table and wheel not level with each	2. Push down or pull up grinding table to make it level
side to other.	other.	with the wheel.
	3. Wheel dressed incorrectly or has	3. Correctly dress the wheel (Page 27).
	impurities.	
	4. Wheel is damaged.	4. Replace wheel (Page 28).



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 aftermarket 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.

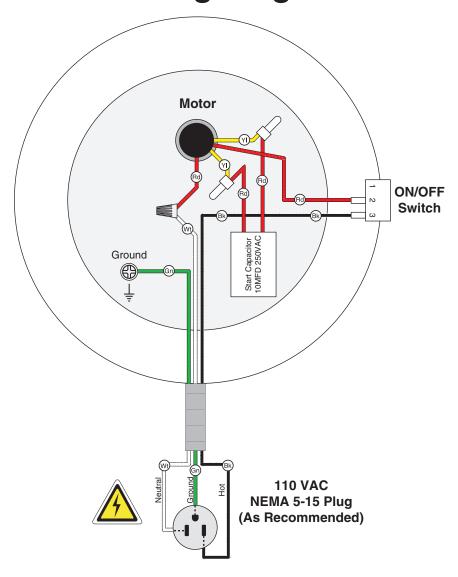
CAPACITORS/INVERTERS. Some capacitors and power inverters store an electrical charge for up to 10 minutes after being disconnected from the power source. To reduce the risk of being shocked, wait at least this long before working on capacitors.

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

NOTICE COLOR KEY BLACK I **BLUE** YELLOW LIGHT The photos and diagrams BLUE included in this section are YELLOW WHITE : **BROWN** GREEN best viewed in color. You GREEN **GRAY PURPLE** can view these pages in TUR-QUOISE color at www.grizzly.com. RED ORANGE **PINK**



Wiring Diagram



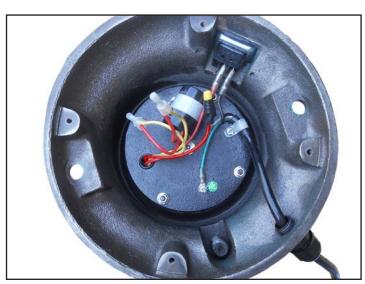
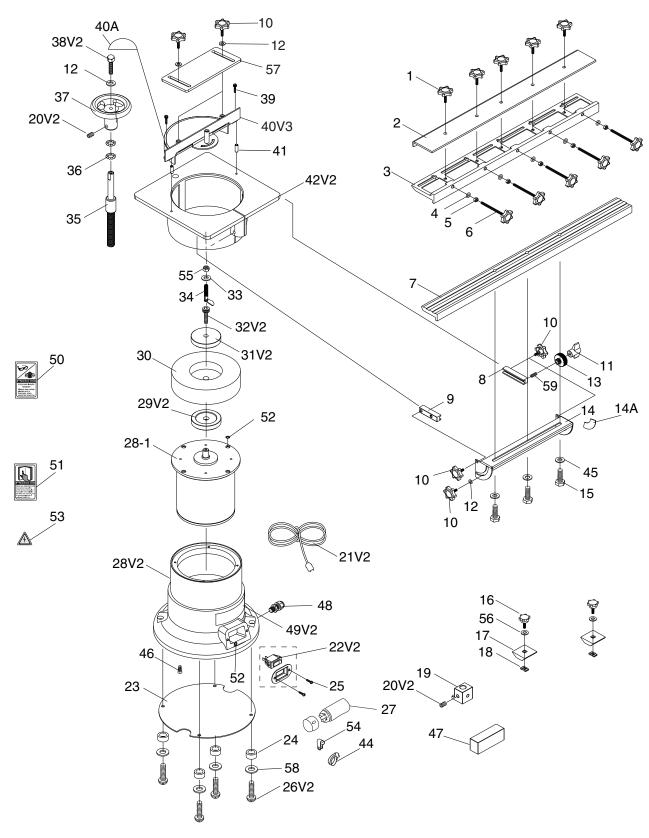


Figure 35. G2790 wiring.

SECTION 9: PARTS

Parts Breakdown



Parts List

REF	PART#	DESCRIPTION		
1	P2790001	STAR KNOB 1/4-20 X 7/8		
2	P2790002	KNIFE CLAMP		
3	P2790003	SLIDING BAR		
4	P2790004	O-RING 6 X 2		
5	P2790005	HEX NUT 1/4-20		
6	P2790006	STAR KNOB 1/4-20 X 2-3/4		
7	P2790007	SLIDING TABLE		
8	P2790008	RIGHT PIVOT SUPPORT FLANGE		
9	P2790009	LEFT PIVOT SUPPORT FLANGE		
10	P2790010	STAR KNOB 1/4-20 X 1/2		
11	P2790011	PIVOT KNOB		
12	P2790012	FLAT WASHER 1/4		
13	P2790013	PIVOT ROTATION WHEEL		
14	P2790014	PIVOT SUPPORT		
14A	P2790014A	DEGREE SCALE		
15	P2790015	HEX BOLT 5/16-18 X 1/2		
16	P2790016	STAR KNOB 10-24 X 3/4		
17	P2790017	STATIONARY CLAMP		
18	P2790018	STATIONARY CLAMP NUT 10-24		
19	P2790019	DRESSING TOOL HOLDER		
20V2	P2790020V2	SET SCREW 5/16-18 X 5/16 V2.04.14		
21V2	P2790021V2	POWER CORD 18G 3W 82"L 5-15		
22V2	P2790022V2	ON/OFF SWITCH V2.09.12		
23	P2790023	COVER PLATE		
24	P2790024	RUBBER BASE FOOT		
25	P2790025	PHLP HD SCR 10-24 X 3/8		
26V2	P2790026V2	FLANGE SCREW 10-24 X 3/8		
27	P2790027	S CAPACITOR 10M 250V 1-1/8 X 1-1/2		
28V2	P2790028V2	MOTOR HOUSING V2.12.12		
28-1	P2790028-1	MOTOR 1/2HP 110V 1-PH		
29V2	P2790029V2	ALUM BOTTOM WHL FLANGE V2.09.12		

REF	PART #	DESCRIPTION		
30	P2790030	GRINDING WHEEL 5/8"/5/A/0/120G		
31V2	P2790031V2	ALUM TOP WHL FLANGE V2.09.12		
32V2	P2790032V2	CAP SCREW M58 X 20 V2.05.15		
33	P2790033	HEX NUT 5/16-18		
34	P2790034	TABLE LOCK LEVER		
35	P2790035	TABLE LEADSCREW 5/8-11 X 3-3/4		
36	P2790036	STEEL BALL		
37	P2790037	HANDWHEEL		
38V2	P2790038V2	HEX BOLT 1/4-20 X 1-3/4		
39	P2790039	CAP SCREW M58 X 35		
40V3	P2790040V3	ALUM WHEEL GUARD V3.02.16		
40A	P2790050	STONE HEIGHT LABEL		
41	P2790041	SPACER		
42V2	P2790042V2	GRINDING TABLE V2.12.12		
44	P2790044	CAPACITOR CLIP		
45	P2790045	FLAT WASHER 5/16		
46	P2790046	WIRE NUT 14-22 GAUGE		
47	P2790047	DRESSING STONE		
48	P2790053	STRAIN RELIEF STRAIGHT LT		
49V2	P2790049V2	MACHINE ID LABEL CSA V2.09.12		
50	P2790054	RESPIRATOR/GLASSES 1.5W X 2.5H		
51	P2790051	READ MANUAL 1.5W X 2.5H		
52	P2790052	EXT TOOTH WASHER #10		
53	P2790053	ELECTRICITY 0.5W X 0.4H		
54	P2790054	CORD CLIP ACC-3		
55	P2790055	FLAT WASHER #8		
56	P2790056	FLAT WASHER 3/16		
57	P2790057	ADJUSTABLE GUARD 170 X 80 X 3MM		
58	P2790058	FLAT WASHER 3/16		
59	P2790059	SET SCREW 1/4-20 X 1-1/4		

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.



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

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To take advantage of this warranty, you must register it at https://www.grizzly.com/forms/warranty, or you can scan the QR code below to be automatically directed to our warranty registration page. Enter all applicable information for the product.





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