

MODEL G0482 22" DRILL PRESS

OWNER'S MANUAL



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#JK7824 PRINTED IN CHINA



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

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

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

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

WARNING!

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

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

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

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INTRODUCTION

Foreword

We are proud to offer the Model G0482 22" Drill Press. This machine is part of a growing Grizzly family of fine machinery. When used according to the guidelines set forth in this manual, you can expect years of trouble-free, enjoyable operation and proof of Grizzly's commitment to customer satisfaction.

We are pleased to provide this manual with the Model G0482. It was written to guide you through assembly, review safety considerations, and cover general operating procedures. It represents our effort to produce the best documentation possible.

The specifications, drawings, and photographs illustrated in this manual represent the Model G0482 as supplied when the manual was prepared. However, owing to Grizzly's policy of continuous improvement, changes may be made at any time with no obligation on the part of Grizzly. For your convenience, we always keep current Grizzly manuals available on our website at www. grizzly.com. Any updates to your machine will be reflected in these manuals as soon as they are complete. Visit our site often to check for the latest updates to this manual!

Contact Info

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

Grizzly Industrial, Inc.

c/o Technical Documentation Manager
P.O. Box 2069
Bellingham, WA 98227-2069

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

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

E-Mail: techsupport@grizzly.com Web Site: http://www.grizzly.com



Product Dimensions:

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

MODEL G0482 22" DRILL PRESS

| Weight | 322 lbs. |
|----------------------------|------------------------------|
| Length/Width/Height | 31-1/2 x 22-7/8 x 69-5/8 in. |
| Foot Print (Length/Width) | 31-1/2 x 22-7/8 in. |
| Shipping Dimensions Box 1: | |
| Туре | Cardboard |
| Content | Headstock |
| Weight | |
| Length/Width/Height | |
| Shipping Dimensions Box 2: | |
| Туре | Cardboard |
| Content | Table and Base |
| Weight | |
| Length/Width/Height | 26-3/4 x 22 x 12-5/8 in. |
| Shipping Dimensions Box 3: | |
| Туре | Cardboard |
| Content | Column |
| Weight | |
| Length/Width/Height | 57-7/8 x 7-1/2 x 7-1/2 in. |
| Electrical: | |
| Switch | |
| Switch Voltage | |
| Cord Length | |
| Cord Gauge | |
| Recommended Breaker Size | |
| Plug | NEMA 5-15 |
| Motors: | |
| Main | |
| Туре | • |
| Horsepower | |
| Voltage | |
| Prewired | |
| Phase | • |
| Amps | |
| Speed | |
| Cycle | 60 Hz |

| Number Of Speeds | 1 |
|---------------------------------------|--|
| Power Transfer | V-Belt Drive |
| Bearings | Shielded and Lubricated |
| Main Specifications: | |
| Construction | |
| | Precision Ground Cast Iron |
| | Cast Iron |
| | Cylindrical Ground Steel |
| | |
| | |
| | Epoxy |
| | |
| Head Information Head Swivel | 360 deg. |
| Tiedd Gwivei | |
| Other Related Information | |
| | |
| Base Width | |
| | 3 in. |
| Depth Stop Type | Threaded Rod with Positive Stop |
| | |
| Illumination | 110V Socket w/ Separate Switch |
| Spindle Information | |
| - | MT#4 |
| | 4-5/8 in. |
| | 11 in. |
| | |
| | 48 in. |
| Table Information | |
| | |
| · · · · · · · · · · · · · · · · · · · | |
| | |
| | 23-1/4 in. |
| <u> </u> | Crank Handle Operated |
| | |
| | Left and Right 45 deg., total 90 deg. |
| | |
| | |
| | 6 |
| | 17mm |
| | 7-7/8", 6-3/4", 5-3/4" (Two slots each size) |
| Operation Information | |
| • | |
| <u> </u> | 1 in. in Steel |
| No Of Spindle Speeds | 12 |
| | |
| | 1360, 1610, 1940, 2400, 3440 RPM |
| | JT3 Keyless Chuck |
| Drill Chuck Size | 5/8 in. |

| Other Specifications: | |
|-----------------------------|---|
| Country Of Origin | China |
| Warranty | 1 Year |
| Serial Number Location | Data Label on Headstock |
| Assembly Time | 45 minutes |
| Features: Crank Handle Oper | ated Rack and Pinion Vertical Table MovementThreaded Depth Stop |
| | Includes Built-in Light |
| | 5/8" Keyless Chuck |

Specifications, while deemed accurate, are not guaranteed.



Identification

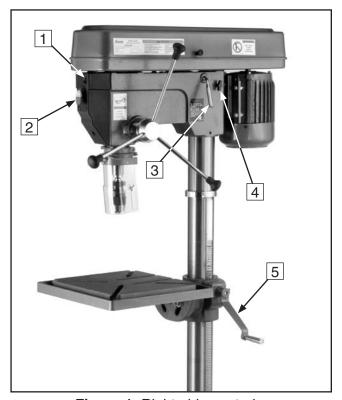


Figure 1. Right-side controls.

Refer to the list below and see **Figures 1 & 2** to become familiar with the drill press controls.

- 1. Light Switch: Turns 110V light ON/OFF.
- 2. Power Switch: Turns motor ON/OFF.
- **3. Belt Tension Lever:** Adjusts motor location to increase/decrease belt tension.
- **4. Belt Tension Lock:** Locks motor in place.
- 5. Table Height Crank: Raises/lowers table.
- **6. Table Lock Lever:** Locks table rotation and height.
- 7. Torsion Spring: Returns quill into headstock.
- **8. Depth Stop:** Limits quill travel to a pre-set drilling depth.
- 9. Scale: Displays current table-tilt angle.

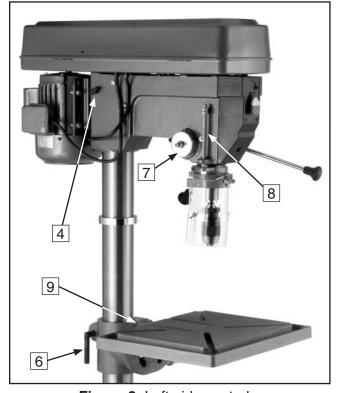


Figure 2. Left-side controls.

Refer to the list below to become familiar with these drill press terms and definitions.

Headstock: The cast iron upper portion of the drill press which houses the quill and work light, and supports the motor and belt housing.

Drift Key: A wedge-shaped tool used to separate tapers.

T-Slot: A slot in a table used to clamp down a workpiece or a vise.

Arbor: A tapered shaft that connects the chuck to the spindle.

Quill: Houses the spindle and bearings.

Spindle: The hollow shaft that accepts the arbor.

SECTION 1: SAFETY

AWARNING

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 which are 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.



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

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

AWARNING Safety Instructions for Machinery

- 1. READ THROUGH THE ENTIRE MANUAL BEFORE STARTING MACHINERY. Machinery presents serious injury hazards to untrained users.
- 2. ALWAYS USE ANSI APPROVED SAFETY GLASSES WHEN OPERATING MACHINERY. Everyday eyeglasses only have impact resistant lenses, they are NOT safety glasses.
- 3. ALWAYS WEAR A NIOSH APPROVED RESPIRATOR WHEN OPERATING MACHINERY THAT PRODUCES DUST. Wood dust is a carcinogen and can cause cancer and severe respiratory illnesses.

- 4. ALWAYS USE HEARING PROTECTION WHEN **OPERATING** MACHINERY. Machinery noise can cause permanent hearing damage.
- 5. WEAR PROPER APPAREL. DO NOT wear loose clothing, gloves, neckties, rings, or jewelry which may get caught in moving parts. Wear protective hair covering to contain long hair and wear non-slip footwear.
- 6. NEVER OPERATE MACHINERY WHEN TIRED, OR UNDER THE INFLUENCE OF DRUGS OR ALCOHOL. Be mentally alert at all times when running machinery.



AWARNING Safety Instructions for Machinery

- ONLY ALLOW TRAINED AND PROP-ERLY SUPERVISED PERSONNEL TO OPERATE MACHINERY. Make sure operation instructions are safe and clearly understood.
- KEEP CHILDREN AND VISITORS AWAY.
 Keep all children and visitors a safe distance from the work area.
- MAKE WORKSHOP CHILD PROOF. Use padlocks, master switches, and remove start switch keys.
- 10. NEVER LEAVE WHEN MACHINE IS RUNNING. Turn power OFF and allow all moving parts to come to a complete stop before leaving machine unattended.
- **11. DO NOT USE IN DANGEROUS ENVIRONMENTS.** DO NOT use machinery in damp, wet locations, or where any flammable or noxious fumes may exist.
- 12. KEEP WORK AREA CLEAN AND WELL LIT. Clutter and dark shadows may cause accidents.
- 13. USE A GROUNDED EXTENSION CORD RATED FOR THE MACHINE AMPERAGE. Undersized cords overheat and lose power. Replace extension cords if they become damaged. DO NOT use extension cords for 220V machinery.
- 14. ALWAYS DISCONNECT FROM POWER SOURCE BEFORE SERVICING MACHINERY. Make sure switch is in OFF position before reconnecting.
- **15. MAINTAIN MACHINERY WITH CARE.** Keep blades sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
- 16. MAKE SURE GUARDS ARE IN PLACE AND WORK CORRECTLY BEFORE USING MACHINERY.

- 17. REMOVE ADJUSTING KEYS AND WRENCHES. Make a habit of checking for keys and adjusting wrenches before turning machinery ON.
- 18. CHECK FOR DAMAGED PARTS BEFORE USING MACHINERY. Check for binding and alignment of parts, broken parts, part mounting, loose bolts, and any other conditions that may affect machine operation. Repair or replace damaged parts.
- 19. USE RECOMMENDED ACCESSORIES.

 Refer to the instruction manual for recommended accessories. The use of improper accessories may cause risk of injury.
- **20. DO NOT FORCE MACHINERY.** Work at the speed for which the machine or accessory was designed.
- 21. SECURE WORKPIECE. Use clamps or a vise to hold the workpiece when practical. A secured workpiece protects your hands and frees both hands to operate the machine.
- **22. DO NOT OVERREACH.** Keep proper footing and balance at all times.
- 23. MANY MACHINES WILL EJECT THE WORKPIECETOWARDTHEOPERATOR. Know and avoid conditions that cause the workpiece to "kickback."
- 24. ALWAYS LOCK MOBILE BASES (IF USED) BEFORE OPERATING MACHINERY.
- 25. BE AWARE THAT CERTAIN DUST MAY BE HAZARDOUS to the respiratory systems of people and animals, especially fine dust. Make sure you know the hazards associated with the type of dust you will be exposed to and always wear a respirator approved for that type of dust.

AWARNINGAdditional Safety for Drill Presses

- EYE/FACE/HAND PROTECTIVE WEAR.
 A face shield used with safety glasses is recommended. Always keep hands and fingers away from the drill bit. Never hold a workpiece by hand while drilling! DO NOT wear gloves when operating the drill.
- 2. GUARD. Keep chuck guard installed at all times. Operating the drill press without the chuck guard installed can present a risk of serious entanglement injuries.
- **3. SECURING BIT.** Properly tighten and securely lock the drill bit in the chuck.
- **4. USING CORRECT BIT.** Use only round, hex, or triangular shank drill bits.
- 5. ADJUSTING KEYS AND WRENCHES. Remove all adjusting keys and wrenches before turning the machine ON.
- DRILLING SHEET METAL. Never drill sheet metal unless it is securely clamped to the table.
- 7. PERPARING SURFACE/WORKPIECE. Never turn the drill press ON before clearing the table of all objects (tools, scrap wood, etc.) Always use a suitable support for workpieces with no flat surfaces.
- **8. AVOIDING TOOL INJURIES.** Never use drill bits in poor condition. Dull or damaged drill bits are hard to control and may cause serious injury.

- 9. OPERATING DRILL. Never start the drill press with the drill bit pressed against the workpiece. Feed the drill bit evenly into the workpiece. Back the bit out frequently to clear deep holes.
- 10. CLEARING CHIPS. Turn the machine OFF and clear chips and scrap pieces with a brush. Shut power OFF, remove drill bit, and clean table before leaving the machine.
- 11. OPERATING SPEED. Always operate your drill press at speeds that are appropriate for the drill bit size and the material that you are drilling.
- **12. MOUNTING WORKPIECES.** Use clamps or vises to secure workpiece before drilling. Position work so you avoid drilling into the table.
- **13. LOCKING TABLE.** Make sure the table lock is tightened before starting the drill press.
- **14. AVOIDING ENTANGLEMENT.** Never change speeds or do maintenance with the machine plugged in.
- 15. EXPERIENCING DIFFICULTIES. If at any time you are experiencing difficulties performing the intended operation, stop using the machine! Contact our Technical Support at (570) 546-9663.

AWARNING

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



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: CIRCUIT REQUIREMENTS

110/220V Operation

AWARNING

Serious personal injury could occur if you connect the machine to the power source before you have completed the set up process. DO NOT connect the machine to the power source until instructed to do so.

Amperage Draw

The Model G0482 features a 110/220V motor that is prewired for 110V and draws the following amps under maximum load:

| Motor Draw at 110V | 15 Amps |
|--------------------|----------|
| Motor Draw at 220V | 7.5 Amps |

Circuit Requirements

We recommend connecting this machine to a dedicated circuit with a verified ground, using the circuit breaker size given below. Never replace a circuit breaker with one of higher amperage without consulting a qualified electrician to ensure compliance with wiring codes. If you are unsure about the wiring codes in your area or you plan to connect your machine to a shared circuit, you may create a fire hazard—consult a qualified electrician to reduce this risk.

| 110V | Circuit | Breaker | 20 Amps |
|------|---------|---------|-------------|
| 220V | Circuit | Breaker | 15 Amps |

Plug Type

The cord set enclosed does not have a plug as the style of plug you require will depend upon the type of service you currently have or plan to install. We recommend using the following plugs for your machine on a dedicated circuit only (see **Figures 4 & 3** for an example):

| 110V Plug & Receptacle | . 5-20 |
|------------------------|--------|
| 220V Plug & Receptacle | 6-15 |

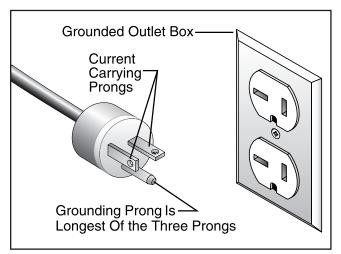


Figure 3. 5-20 plug and receptacle for 110V.

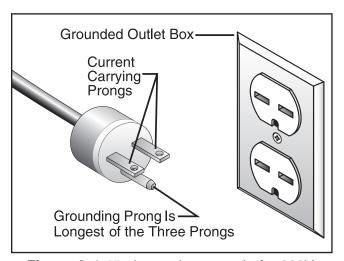


Figure 4. 6-15 plug and receptacle for 220V.

CAUTION

Using light bulbs at 220V will destroy or explode the light bulbs because the light socket is not wired or intended to be wired for 220V.

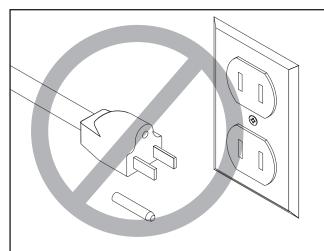
Grounding

In the event of an electrical short, grounding reduces the risk of electric shock. The grounding wire in the power cord must be properly connected to the grounding prong on the plug; likewise, the outlet must be properly installed and grounded. All electrical connections must be made in accordance with local codes and ordinances.



WARNING

Electrocution or fire could result if this machine is not grounded correctly or if your electrical configuration does not comply with local and state codes. Ensure compliance by checking with a qualified electrician!



ACAUTION

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

Extension Cords

110V Operation

We do not recommend the use of extension cords. Instead, arrange the placement of your equipment and the installed wiring to eliminate the need for extension cords.

If you find it absolutely necessary to use an extension cord at 110V with your machine:

- Use at least a 12 gauge cord that does not exceed 50 feet in length!
- The extension cord must also contain a ground wire and plug pin.
- A qualified electrician MUST size cords over 50 feet long to prevent motor damage.

220V Operation

We do not recommend the use of extension cords. Instead, arrange the placement of your equipment and the installed wiring to eliminate the need for extension cords.

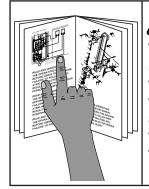
If you find it absolutely necessary to use an extension cord at 220V with your machine:

- Use at least a 14 gauge cord that does not exceed 50 feet in length!
- The extension cord must also contain a ground wire and plug pin.
- A qualified electrician MUST size cords over 50 feet long to prevent motor damage.



SECTION 3: SET UP

Set Up Safety



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!



WARNING

Wear safety glasses during the entire set up process!



WARNING

The Model G0482 is a heavy machine. DO NOT over-exert yourself while unpacking or moving your machine—get assistance.

Items Needed for Set Up

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

| Des | scription | Qty |
|-----|--------------------------------------|--------|
| • | Open-End Wrench 14mm | 1 |
| • | Open-End Wrench 19mm | 1 |
| • | Open-End Wrench 22mm | 1 |
| • | An Assistant (for lifting) | 1 |
| • | Plumb Bob | |
| • | Ruler | 1 |
| • | Permanent Marker | 1 |
| • | 60W Light Bulb (for 110V operation). | 1 |
| • | Phillips Head Screwdriver #2 | |
| • | DegreaserAs | |
| • | S | needed |

Unpacking

The Model G0482 was carefully packed when it left our warehouse. If you discover the machine is damaged after you have signed for delivery, please immediately call Customer Service at (570) 546-9663 for advice.

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

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

Inventory

After all the parts have been removed from the three boxes, you should have the following items:

| Lai | rge Components (Figure 5) | - |
|-----|--|---|
| Α. | () () | |
| В. | Table (Box 2) | 1 |
| C. | | 1 |
| D. | Table Bracket (Box 2) | 1 |
| E. | Column (Box 3) | 1 |
| Sm | nall Components (Figure 6): | |
| A. | | 1 |
| B. | Chuck | 1 |
| C. | Column Lock Handle | 1 |
| D. | Table Crank Handle | 1 |
| E. | Drift Key | 1 |
| F. | Downfeed Handles | |
| G. | Downfeed Handle Knobs | |
| H. | Belt Cover Knob (not shown) | |
| I. | Chuck Guard (not shown) | |
| Tod | ols and Hardware: | |
| • | Hex Wrench 3mm | 1 |
| • | Hex Wrench 5mm | 1 |
| • | Hex Bolts M12-1.75 x 50 (Column/Base). | 3 |
| • | Lock Washers 12mm (Column/Base) | |
| • | Hex Nuts M14-2 (Table) | |
| • | Flat Washers 14mm (Table) | |
| | | |

In the event that any nonproprietary parts are missing (e.g. a nut or a washer), we would be glad to replace them, or for the sake of expediency, replacements can be obtained at your local hardware store.

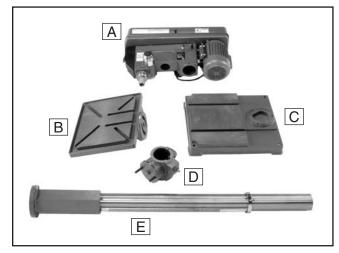


Figure 5. Large component inventory.

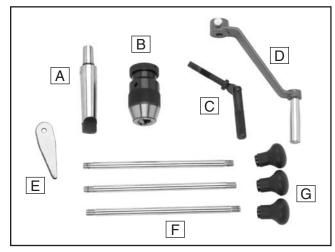


Figure 6. Small component inventory.

NOTICE

Some hardware/fasteners on the inventory list may arrive pre-installed on the machine. Check these locations before assuming that any items from the inventory list are missing.



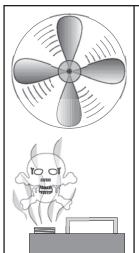
Clean Up

The unpainted surfaces are coated with a waxy oil to protect them from corrosion during shipment. Remove this protective coating with a solvent cleaner or citrus-based degreaser such as Grizzly's G7895 Degreaser. To clean thoroughly, some parts may need to be removed. For optimum performance from your machine, make sure you clean all moving parts or sliding contact surfaces that are coated. Avoid chlorine-based solvents, such as acetone or brake parts cleaner, as they will damage painted surfaces should they come in contact. Always follow the manufacturer's instructions when using any type of cleaning product.



WARNING

Gasoline and petroleum products have low flash points and could cause an explosion or fire if used to clean machinery. DO NOT use gasoline or petroleum products to clean the machinery.



CAUTION

Many of the solvents commonly used to clean machinery can be toxic when inhaled or ingested. Lack of ventilation while using these solvents could cause serious personal health risks or fire. Take precautions from this hazard by only using cleaning solvents in a well ventilated area.

Site Considerations

Floor Load

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

Working Clearances

Consider existing and anticipated needs, size of material to be processed through each machine, and space for auxiliary stands, work tables or other machinery when establishing a location for your new machine. See **Figure 7** for the minimum working clearances for the Model G0482.

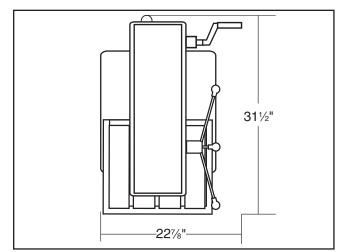
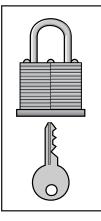


Figure 7. Model G0482 working clearances.



ACAUTION

Unsupervised children and visitors inside your shop could cause serious personal injury to themselves. Lock all entrances to the shop when you are away and DO NOT allow unsupervised children or visitors in your shop at any time!

Column and Base

| Components and Hardware Needed: Base | - |
|--------------------------------------|---|
| Column | |
| Hex Bolts M12-1.75 x 50 | 3 |
| Lock Washer 12mm | 3 |

To install the column on the base:

- 1. Place the column on the base and align the holes in the column with the mounting holes in the base.
- 2. Secure the column to the base with hex bolts and lock washers, as shown in **Figure 8**.

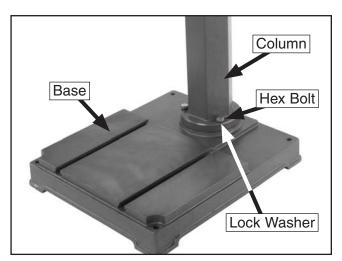


Figure 8. Mounting the column.

Table Bracket

The rack and collar are pre-installed on the column, and need to be removed before the table bracket can be installed.

To install the table bracket:

Mark the top of the rack, as shown in Figure
 to reference which end is the top. Visually, the top of the rack is the end with a larger 'blind', or untoothed, section.

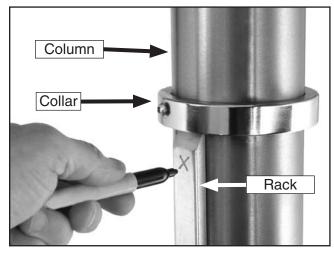


Figure 9. Marking the rack.

- 2. Loosen the screw on the collar and remove the collar and rack from the column.
- **3.** Place the rack inside the table bracket, engage it with the gear inside the table bracket, and slide the rack and table bracket onto the column, as shown in **Figure 10**.

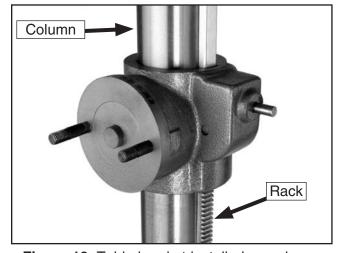


Figure 10. Table bracket installed on column.

4. Re-install the collar and tighten the collar screw.



Crank and Column Lock Handles

| Components and Hardware Needed: | Qty |
|---------------------------------|-----|
| Table Crank Handle | 1 |
| Column Lock Handle | 1 |

To install the crank handle and column lock handle (Figure 11):

- **1.** Remove the hex bolt from the crank handle.
- Slide the crank handle onto the handle shaft, and turn the handle until the bolt hole is aligned with the flat face of the handle shaft.
- 3. Re-insert and tighten the hex bolt.
- 4. Insert the column lock handle into the nonthreaded hole at the left rear of the table bracket, and thread it through to the right side of the table bracket.

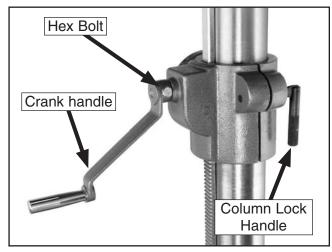


Figure 11. Attaching the crank handle.

Headstock

| Components and Hardware Needed: | Qty |
|---------------------------------|-----|
| Headstock | 1 |

The headstock must be mounted on the column/base assembly before the drill press can be operated. Moving and installing the headstock is a two-person job, at the very least. Although the headstock can be lifted directly onto the column while upright, doing so is difficult and potentially dangerous because of the heavy weight involved. We recommend sliding the column into the headstock, then tilting the entire assembly fully upright, as described and shown in this section.



WARNING

The headstock is very heavy. You MUST have assistance when moving, lifting or mounting the headstock on the column and base assembly.

To mount the headstock onto the column:

- Set the top piece of the headstock styrofoam packing approximately six feet away from the column/base assembly.
- Remove the headstock from the box and place it on the styrofoam packing piece you laid out in Step 1.

Note: To avoid damaging the machine, be careful not to hold the headstock by the switch or the top part of the belt cover when lifting.

- 3. Carefully lay the column/base on its side.
- **4.** Slide the column all the way into the bottom of the headstock (approximately 4"-6").

5. Tilt the entire assembly up (see Figure 12) and carefully position the drill press on its base in the fully upright position.

ACAUTION

If the base starts to slide when tilting, you MUST have a third person prevent the base from sliding to avoid personal injury or machine damage.

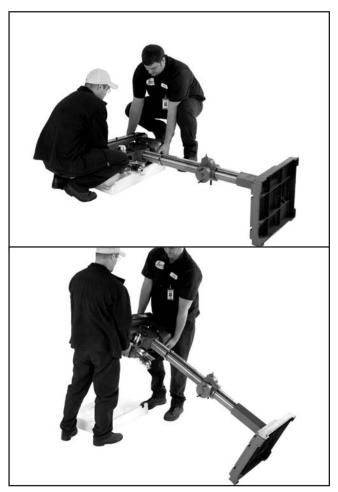


Figure 12. Tilting drill press upright.

- **6.** Center a ruler or tape on the base, and suspend a plumb bob from the center of the headstock spindle.
- Center the headstock directly over the base as indicated by the plumb bob and ruler, as shown in Figure 13.

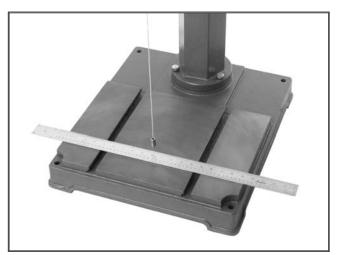


Figure 13. Aligning headstock with base.

8. Tighten the two headstock set screws to the column, as shown in **Figure 14**.

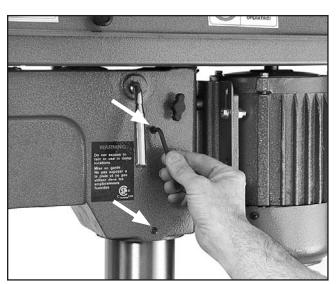


Figure 14. Securing headstock to column.

Drill Chuck & Arbor

The drill chuck attaches to the spindle by means of the arbor, shown in **Figure 15**. Matched tapers on the arbor and the inside of the chuck create a semi-permanent assembly when properly joined.

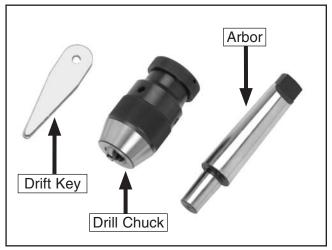


Figure 15. Chuck components.

| Components and Hardware Needed: | Qty |
|---------------------------------|-----|
| Keyless Chuck | |
| Arbor | |

To assemble the drill chuck and mount it to the spindle:

- Use mineral spirits to thoroughly clean the drill chuck and arbor, and dry all surfaces before assembly. Follow all safety warnings on the container of mineral spirits. Failure to clean the mating surfaces may cause the tapered fit to loosen during operation, resulting in separation, which could lead to serious injury.
- **2.** Hand-turn the chuck to adjust the chuck jaws until they are inside the drill chuck body.
- 3. Place the drill chuck face down on a workbench. The arbor has a short taper and a long taper. Place the short taper into the socket in the back of the drill chuck and tap it with a rubber or wooden mallet, as shown in Figure 16. If the chuck fails to remain secure on the arbor, repeat Steps 1 & 2.

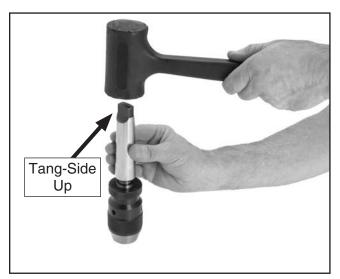


Figure 16. Seating arbor into chuck.

- 4. Slide the arbor into the spindle socket while slowly rotating the drill chuck. The socket has a rectangular pocket where the tang (or flat portion of the arbor shown in **Figure 16**) fits into.
- **5.** Seat the chuck with a rubber mallet, as shown in **Figure 17.**

ACAUTION

DO NOT use a steel hammer on the drill chuck to seat the arbor into the spindle. You will damage the chuck and/or spindle, which may make them unusable or unsafe.



Figure 17. Seating arbor and chuck into spindle.

Chuck Guard

| Components and Hardware Needed: | Qty |
|---------------------------------|-----|
| Chuck Guard Assembly | 1 |

The chuck guard must be installed before the drill press is operated.

To install the chuck guard:

- 1. Fit the chuck guard onto the spindle so that it sits flush below the depth stop bracket.
- 2. Tighten the included Phillips head screw and hex nut.

Downfeed Handles & Belt Cover Knob

| Components and Hardware Needed: | Qty |
|--|-----|
| Downfeed Handles | 3 |
| Downfeed Handle Knobs | 3 |
| Belt Cover Knob | 1 |

The downfeed handles must be installed to operate the drill press.

To install the downfeed handles:

 Thread the downfeed handle knobs onto the handles, and thread the downfeed handles into the pinion hub, as shown in Figure 18.

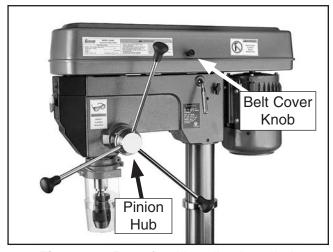


Figure 18. Downfeed handles installed.

2. Remove the screw that fastens the belt cover in place and install the belt cover knob in its place (see **Figure 18** for location).

Table

| Components and Hardware Needed: | Qty |
|--|-----|
| Hex Nuts M14-2 | 2 |
| Flat Washers 14mm | 2 |

The table is a very heavy object, and we strongly recommend that an assistant help with this portion of the setup process.

To install the table:

- 1. Place the table against the table bracket, so that the mounting studs pass through the mounting holes of the table.
- 2. Attach the table to the table bracket with the flat washers and hex nuts, and hand-tighten. The table should be able to tilt left and right, but the table surface should remain perpendicular to the column at all times.
- **3.** Align the table so that the table tilt gauge reads 0°, as shown in **Figure 19**.

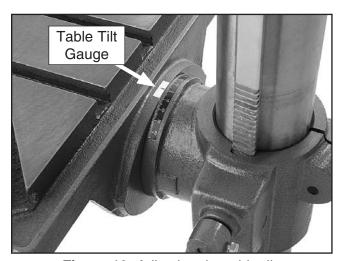


Figure 19. Adjusting the table tilt.

4. Tighten the hex bolts with a 22mm wrench.



Light (110V Only)

Components and Hardware Needed: Qty 60 W Light Bulb......1

The Model G0482 includes a light socket, intended for 110V usage only. When the drill press is shipped from the factory, a dust plug is installed in the light socket for protection.

To install a light bulb in the drill press:

- 1. Remove the dust plug from the light socket.
- 2. Install a 60W or smaller light bulb in the location shown in **Figure 20**.

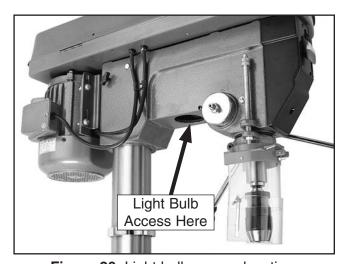


Figure 20. Light bulb access location.

ACAUTION

Using light bulbs at 220V will destroy or explode the light bulbs because the light socket is not wired or intended to be wired for 220V.

Test Run

Once assembly is complete, you are ready to test run the drill press.



AWARNING

Wear safety glasses whenever starting or using machine. Failure to comply may result in serious personal injury.



AWARNING

Keep loose clothing rolled up and out of the way of machinery and keep hair pulled back.

To test run the drill press:

- 1. Connect the drill press to the power source.
- With your finger poised on the paddle switch (in case there is a problem), turn the drill press
 ON. The drill press should run smoothly, with little or no vibration or rubbing noises.

Investigate and correct for strange or unusual noises before operating the machine further.

If you cannot easily locate the source of a potential problem, refer to **Troubleshooting** on **Page 34**. If you still can't solve the problem, contact our Technical Support at (570) 546-9663.

Floor Mounting

Once you have confirmed that your machine is running properly, we strongly recommend mounting it to the floor to ensure optimum stability.

Lag shield anchors with lag bolts and anchor studs (**Figure 21**) are two popular methods for anchoring an object to a concrete floor. We suggest you research the many options and methods for mounting your machine and choose the best that fits your specific application.

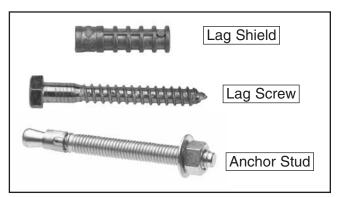


Figure 21. Typical concrete mounting hardware.

Mobile Base Mounting

Because the drill press is top-heavy by nature, we recommend mounting it to the floor, rather than a mobile base.

If you must use a mobile base, ALWAYS mount your drill press to a base plate inside of the mobile base, as shown in **Figure 23**.

A good quality base plate increases the standard footprint of the drill press to make it much more stable. The base plate must be at least 1½" thick and made of plywood (do not use OSB, MDF, or particle board) to hold the weight of the drill press. A common way for making the baseplate is described in this sub-section.

Always use extreme care when moving the drill press around with the mobile base!

ACAUTION

If a mobile base is to be used, the drill press must be securely attached to both a largefootprint baseplate and mobile base. Failure to use a base plate greatly increases possibility of tipping and personal injury.

| Ne | eded Materials for Base Plate | Qty |
|----|--------------------------------|-------------|
| • | Plywood 3/4" x 233/4" x 233/4" | 2 |
| • | Wood Glue | . As Needed |
| • | Wood Screws #6 x 11/4" | 24 |

To make and use the base plate:

- **1.** Glue the two pieces of plywood together, and align the edges and corners so the two boards make one thick piece.
- **2.** Use the wood screws to fasten the boards together from both sides.
- **3.** Allow 24 hours for the glue to dry before placing the drill press on it.
- **4.** Place the base plate on the mobile base.
- Drill holes through the base plate and the metal plates at the corners of the mobile base.
- 6. Secure the base plate to the mobile base with 2½ long hex bolts, hex nuts, flat washers and lock washers, as shown in **Figure 22**.

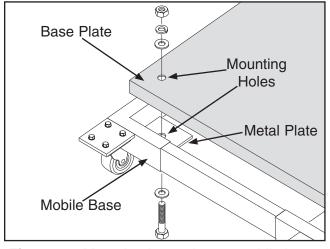


Figure 22. Mounting base plate to mobile base.

Continued on next page



- 7. Place the drill press on the base plate.
- **8.** Position the drill press close to the front of the mobile base, so the mobile base will not be a tripping hazard.
- Mount the drill press to the base plate with lag screws and flat washers (Figure 23); or with through bolts, flat washers, and hex nuts.



Figure 23. Drill press mounted on mobile base, using a base plate for support.

Recommended Adjustments

For your convenience, the adjustments listed below have been performed at the factory; however, because of the many variables involved with shipping, we recommend that you at least verify the following adjustments before operating your machine—this will ensure that you know the operating tolerances of your machine, and you have them adjusted to your expectation.

Step-by-step instructions for these adjustments can be found in **SECTION 7: SERVICE**.

Factory adjustments that should be verified:

- 1. Depth Stop Calibration (Page 36)
- 2. Feed Shaft Spring Tension (Page 36)

SECTION 4: OPERATIONS

Operational Safety



▲WARNING

Wear safety glasses when operating this machine. Serious injury may occur if this warning is ignored!



AWARNING

Loose hair and clothing could get caught in machinery and cause serious personal injury. Keep loose clothing and long hair away from moving machinery.

NOTICE

If you have never used this type of machine or equipment before, WE STRONGLY REC-OMMEND that you read books, trade magazines, and/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.

Switch Safety Key

To disable the switch, remove the safety key, as sgown in **Figure 24**.

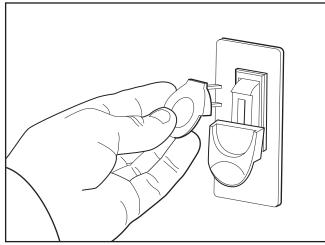


Figure 24. Removing key to disable machine.

Installing/Removing Drill Bits

The G0482 is equpped with a keyless chuck. this means that it can be opened and securely closed by hand with little effort. Any drill bit you install in the chuck must be tight enough that it will not come loose during operation.

To install a drill bit:

- 1. UNPLUG THE DRILL PRESS!
- **2.** Flip up the chuck guard to gain access to the chuck.
- 3. Open the drill chuck wide enough to accept the shank of the drill bit.

4. Insert the drill bit as far as possible into the chuck WITHOUT allowing the chuck jaws to touch the fluted portion of the bit, and hand tighten the chuck.

Note: Make sure small bits are not trapped between the edges of two jaws; if they are, reinstall the drill bit or it will not be secure enough to use for drilling.

- **5.** Once you are sure the bit is installed correctly, tighten the chuck as tight as possible.
- 6. Flip the chuck guard down into place.

To remove a drill bit:

- UNPLUG THE DRILL PRESS!
- **2.** Flip up the chuck guard to gain access to the chuck.
- **3.** Open the drill chuck by hand, and catch the drill bit with a rag to protect your hands.

ACAUTION

Larger bits turning at slower speeds tend to grab the workpiece aggressively. This can result in the operator's hand being pulled into the bit or the workpiece being thrown with great force. Always clamp the workpiece to the table to prevent injuries.

Choosing Speeds

Using the Drill Bit Speed Chart

The chart shown on Page 26 is intended as a guide only. Always follow manufacturer's speed recommendations if provided with your drill bits, cutters, or hole saws. Exceeding the recommended speeds may be dangerous to the operator.

The speeds shown here are intended to get you started. The optimum speed will always depend on various factors, including tool diameter, drilling pressure, material hardness, material quality, and desired finish.

Often, when drilling materials other than wood, some type of lubrication is necessary.

Lubrication Suggestions

| Wood | None |
|------------|--------------------------|
| Plastics | Soapy Water |
| | Water-Based Lubricant |
| Aluminum | Paraffin-Based Lubricant |
| Mild Steel | Oil-Based Lubricant |

| Twist/Brad Point Drill Bits | Soft Wood | Hard Wood | Plastic | Brass | Aluminum | Mild Steel |
|-----------------------------|-----------|-----------|---------|-------|----------|------------|
| 1/16" — 3/16" | 3000 | 2500 | 2500 | 2500 | 3000 | 2500 |
| 13/64" — 3/8" | 2000 | 1500 | 2000 | 1250 | 2500 | 1250 |
| 25/64" – 5/8" | 1500 | 750 | 1500 | 750 | 1500 | 600 |
| 11/16" — 1" | 750 | 500 | 1000 | 400 | 1000 | 350 |
| | | | | | | |
| Spade/Forstner Bits | Soft Wood | Hard Wood | Plastic | Brass | Aluminum | Mild Steel |
| 1/4" — 1/2" | 2000 | 1500 | | | | |
| 9/16" — 1" | 1500 | 1250 | | | | |
| 1-1/8" — 1-7/8" | 1000 | 750 | | | | |
| 2–3" | 500 | 350 | | | | |
| | | | | | | |
| Hole Saws | Soft Wood | Hard Wood | Plastic | Brass | Aluminum | Mild Steel |
| 1/2" — 7/8" | 500 | 500 | 600 | 600 | 600 | 500 |
| 1" — 1-7/8" | 400 | 400 | 500 | 500 | 500 | 400 |
| 2" – 2-7/8" | 300 | 300 | 400 | 400 | 400 | 300 |
| 3" — 3-7/8" | 200 | 200 | 300 | 300 | 300 | 200 |
| 4" – 5" | 100 | 100 | 200 | 200 | 200 | 100 |
| | | | | | | |
| Rosette Cutters | Soft Wood | Hard Wood | Plastic | Brass | Aluminum | Mild Steel |
| Carbide Insert Type | 350 | 250 | | | | |
| One-Piece Type | 1800 | 500 | | | | |
| | | | - | | | |
| Tenon/Plug Cutters | Soft Wood | Hard Wood | Plastic | Brass | Aluminum | Mild Steel |
| | | 4000 | | _ | | |
| 3/8" - 1/2" 5/8" - 1" | 1200 | 1000 | | | | |

Figure 25. Drill bit speed chart.

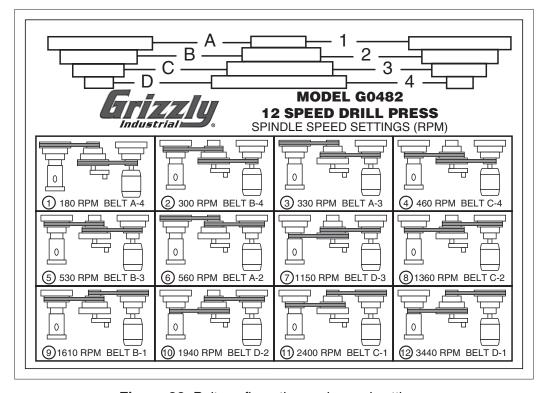


Figure 26. Belt configuration and speed settings.



Changing Speeds

The belts in the head of the drill press must be rearranged to change speeds. A chart under the belt cover shows the belt positions needed to make the drill press run at the desired speed.

To change speeds:

- UNPLUG THE DRILL PRESS!
- 2. Loosen the belt tension lock knobs (shown on Page 26) on both sides of the headstock, so the motor is free to move.

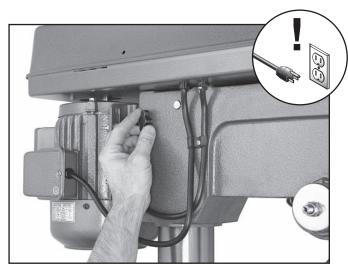


Figure 27. Loosening lock knob (both sides).

Rotate the belt tension lever counterclockwise, as shown in Figure 28, to take tension off the V-belts.

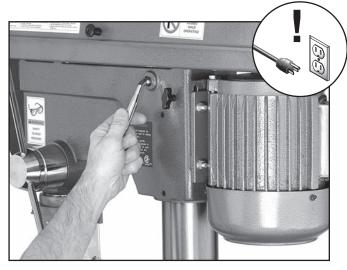


Figure 28. Using the belt tension lever.

4. Locate the desired speed on the speed chart under the belt cover or on Page 26 and move the V-belts to the desired V-grooves on the motor, idler, and spindle pulleys.

For Example: As indicated in the speed chart (Figure 29), a belt combination of A-2 creates 560 RPM.

Note: Both belts may have to be removed before certain speed changes can be made.

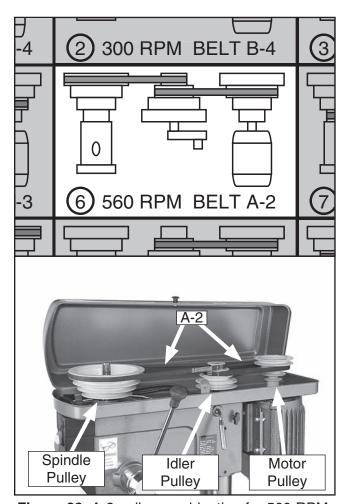


Figure 29. A-2 pulley combination for 560 RPM.

- **5.** Rotate the belt tension lever until the belts are tight. Tighten both lock knobs.
- **6.** Close the cover before plugging in the machine.

Drilling

The Model G0482 is designed for drilling holes in wood, plastics or metal. The basic operation of a drill press is lining up your drill bit with the intended hole location, turning the drill press **ON**, and using the downfeed handles to move the spinning drill bit into the workpiece.

For safe operation and optimum results, it is very important to follow these guidelines when drilling:

SECURING WORKPIECE TO TABLE: Secure the workpiece to the table or in a vise that is secured to the table before drilling.

CLEARING CHIPS: Raise the drill bit often to clear chips and cool the drill bit. This will ease the work of the drill press motor and extend the life of your drill bits.

PROTECTING TABLE: Protect the table by placing the workpiece on scrap wood. Also, use the depth stop so that the drill bit goes no deeper than necessary.

USING CORRECT SPEEDS: Use the correct speed for the diameter of the drill bit being used and the type of material being drilled. Refer to the **Drill Bit Speed Chart** on **Page 26** to help you choose the correct speed for your application.

LARGE DIAMETER BITS: Large diameter drill bits require slower spindle speeds.

SMALL DIAMETER BITS: Smaller diameter drill bits require faster spindle speeds.

HARD MATERIAL: The harder the material, (steel vs. wood) the slower the spindle speed.

SOFT MATERIAL: The softer the material, the faster the spindle may turn. (Plastics can melt at too high of a spindle speed!)

LUBRICANT: Use some form of lubricant on all materials except wood. Refer to **Lubrication Suggestions** on **Page 25** to find the correct lubrication for your application.

DRILLING ACCURACY: To prevent drill bit wandering and ensure accurate placement of holes, mark the hole location with a center punch before drilling. Also consider using a center-point drill to start the hole.

PLUG/ROSETTE CUTTERS: Plug cutters and rosette cutters are for wood only. However, carbide-tipped bits and cutters cut at a higher speed and can cut materials other than wood, depending on the cutter type.

5-FLUTE/2-FLUTE CUTTERS: Use a 5-flute cutter when cutting into plastics, brass, aluminum, and mild steel. A 2-flute cutter can aggressively grab the workpiece and damage the tool if used with materials other than wood.

SPADE BITS AND PLASTIC: When drilling plastic with a spade bit, use a spade bit with spurs.

HOLE SAWS: When using hole saws, apply firm and even pressure, so the saw teeth contact the surface all at the same time—not at an angle. You can also flip the workpiece and finish cutting from the other side.

ACAUTION

Larger bits turning at slower speeds tend to grab the workpiece aggressively. This can result in the operator's hand being pulled into the bit or the workpiece being thrown with great force. Always clamp the workpiece to the table to prevent injuries.



Depth Stop

The Model G0482 has a depth stop that allows you to drill repeated non-through holes to the same depth every time.

The depth stop consists of a stud attached to the quill, with two knurled nuts that can be lowered or raised on the stud so the lower nut (depth nut) hits a stop bracket when the drill bit is lowered. The upper knurled nut (jam nut) is then used to tighten against the depth nut to secure it in place so the depth nut doesn't move with repeated operations. The depth stop also features a knurled return height nut that is used to set the minimum spindle return distance. **Figure 30** shows the various components of the depth stop.

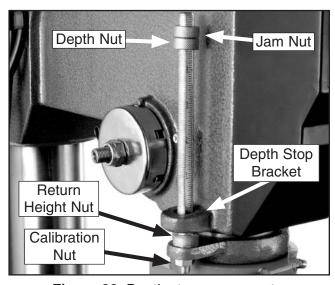


Figure 30. Depth stop components.

To set the depth stop:

- **1.** Lower the drill bit to the required height.
- 2. Thread the depth nut down against the stop bracket.
- 3. Lower the jam nut against the depth nut.
- **4.** Hold the depth nut in place and tighten the jam nut against the depth nut.

Note: The scale on the depth stop can be recalibrated if it gets moved or has changed since the factory setting. Refer to **Calibrating Depth Stop** on **Page 36** for instructions on how this is done.

To set the spindle return distance:

- 1. Lower the drill bit.
- 2. Thread the return height nut up the stud to the desired height.

Adjusting Table

The table can raised and lowered, and tilted 90° left or right. Table adjustment controls are shown in **Figure 31**.

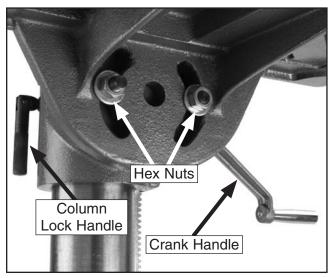


Figure 31. Table adjustment controls.

Table Height

- Loosen the column lock handle.
- **2.** Adjust the height by turning the crank handle.
- **3.** Tighten the column lock handle.

Table Tilt

It is recommended that an assistant helps with the table tilt process, as the table is a very heavy object.

- Loosen the hex nuts shown in Figure 31 and tilt the table to the desired angle.
- **2.** Tighten the hex nuts.



Arbor Removal

The arbor can be removed to install other Morse Taper tooling in the spindle. A drift key is included to help remove the arbor or other tooling from the spindle. Usually, once the chuck and arbor have been properly mounted together, they are considered semi-permanent connections. (If you would like to install a different chuck, we recommend getting a new arbor for that chuck.)

To remove the drill chuck and arbor:

- 1. UNPLUG THE DRILL PRESS!
- 2. Rotate the downfeed handles until the drift key slot is exposed in the side of the quill.
- 3. Lock the quill height by tightening the height return nut against the depth stop bracket. The quill should not return up into the head casting when the height return nut is adjusted this way.
- **5.** Flip up the chuck guard to gain access to the chuck
- 6. Rotate the spindle until the inner drift key slot is aligned with the outer slot, as shown in **Figure 32**. You will see through the spindle when the slot is properly aligned.
- 7. Insert the drift key into the drift key slot, and allow the quill to rise and trap the drift key by loosening the return height nut slightly.

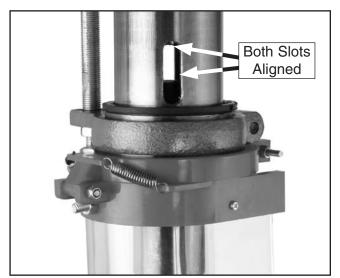


Figure 32. Both drift key slots aligned.

-30-

- Hold the drill chuck with one hand, and tap on the drift key with a rubber or wooden mallet, as shown in Figure 33, until the chuck releases.
- **9.** Hold a downfeed handle with one hand, and loosen the depth stop nut with the other hand.
- Carefully retract the quill into the head stock.



Figure 33. Using drift key to remove arbor.

SECTION 5: ACCESSORIES

G8865—1/16" -1/4" Cobalt Alloy Drill Bits 13-Piece Set

G8866—1/16"-3%" Steelex® Cobalt Alloy Drill Bits 21-Piece Set

G8867—1/16"-1/2" Steelex® Cobalt Alloy Drill Bits 29-PC Set

Cobalt Alloy bits will retain their edge sharpness longer than normal HSS bits, resulting in a significant saving of time and money in the workshop. Includes a heavy-gauge steel index case.



Figure 34. Model G8865 13-Piece Alloy Drill Bits.

G5753—Drill Press Vise 6"

If you use a drill press and value your fingers, you need one of these. Made from high-grade cast iron, these hefty horizontal vises offer support and stability, allowing you to keep your hands well away from fast moving bits and cutters.

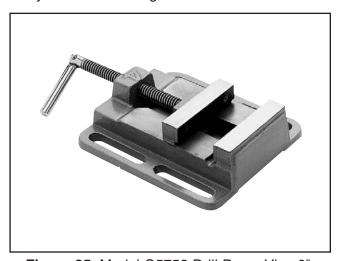


Figure 35. Model G5753 Drill Press Vise 6".

G7984—Face Shield

H1298—Dust Sealed Safety Glasses

H1300—UV Blocking, Clear Safety Glasses

H2347—Uvex® Spitfire Safety Glasses

H0736—Shop Fox® Safety Glasses

Safety Glasses are essential to every shop. If you already have a pair, buy extras for visitors or employees. You can't be too careful when it comes to shop safety!



Figure 36. Our most popular safety glasses.

G2500—20-Piece Regular Sanding Drum Set Use on your drill press, lathe, or hand drill. This kit consists of 5 drums in popular ½" x ½", ¾" x 1", 1"x 1", 1½" x 1½", and 2" x 1½" sizes. Comes with 50, 80 and 120 grit sizes for each drum.



Figure 37. Model G2500 Sanding Drum Set.

H7827—Drill Press Table

Add this 23%" wide x 11%" deep drill press table with 3" high fence and stop block to your drill press for greater work support and increased accuracy. The fence and stop block slide along T-slots for quick, yet secure set-up, and a removable $3^{15}\%$ square center block allows through drilling past the table. Fits all standard drill press tables and includes two universal table clamps.

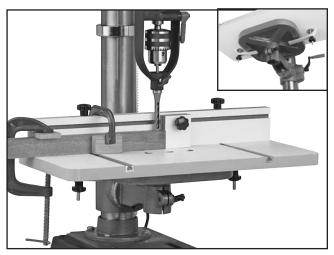


Figure 38. H7827 Drill Press Table.

H6238—Drill Press Support Rollers

These Drill Press Support Rollers provide stability and control for longer work. Rollers clamp to the column and measure $9\frac{1}{2}$ " wide x $1\frac{3}{8}$ " diameter. Lateral adjustment range is 8" minimum to 24" maximum on each side and vertical adjustment is 8".



Figure 39. H6238 Drill Press Support Rollers.

H7789—Mortising Attachment Kit

This mortising attachment kit, with its variety of interchangeable bushings, will fit just about any drill press for boring precision mortises. The entire kit includes cast iron chisel holder and fence, hold down assembly, quill alignment pin, 1/4", 5/16", 3/8" and 1/2" chisels, 3 two-piece bushings, 3 split bushings and carrying case.

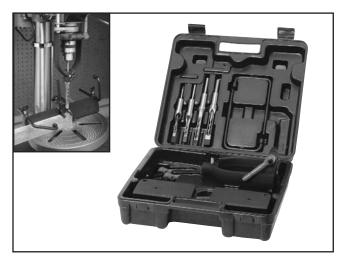


Figure 40. H7789 Mortising Attachment Kit.

G5562—SLIPIT® 1 Qt. Gel G5563—SLIPIT® 12 oz Spray G2871—Boeshield® T-9 12 oz Spray G2870—Boeshield® T-9 4 oz Spray H3788—G96® Gun Treatment 12 oz Spray H3789—G96® Gun Treatment 4.5 oz Spray

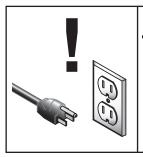


Figure 41. Recommended products for protecting unpainted cast iron/steel areas.

Gall 1-300-523-4777 To Order



SECTION 6: MAINTENANCE



AWARNING

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

General

Regular periodic maintenance on your drill press will ensure optimum performance. Make a habit of inspecting your machine each time you use it. Check for the following conditions and repair or replace when necessary:

- Loose mounting bolts.
- Worn switch.
- Worn or damaged cords and plugs.
- Damaged V-belts.
- Any other condition that could hamper the safe operation of this machine.

Cleaning

Cleaning the Model G0482 is relatively easy. Vacuum excess wood chips and sawdust, and wipe off the remaining dust with a dry cloth. If any resin has built up, use a resin dissolving cleaner to remove it. Treat all unpainted cast iron and steel with a non-staining lubricant after cleaning.

Unpainted Cast Iron

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

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

Lubrication

Since all bearings are shielded and permanently lubricated, simply leave them alone until they need to be replaced. DO NOT lubricate them.

Keep quill, spindle, column, and table top well lubricated to prevent rust.

V-Belts

Inspect regularly for tension and wear. Check pulleys to ensure that they are properly aligned. See **Changing Speeds** on **Page 25** for more information about removing/installing belts if you need help replacing the belts.

SECTION 7: SERVICE

About Service

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

Troubleshooting

Motor & Electrical

| Symptom | Possible Cause | Possible Solution |
|--|--|--|
| Machine does not start or a breaker trips. | Plug or receptacle is at fault or wired incorrectly. | Test power plug and receptacle for good contact and correct wiring. |
| | 2. Start capacitor is faulty. | 2. Replace capacitor. |
| | 3. Motor connection is wired incorrectly. | 3. Correct motor wiring (see Page 39). |
| | 4. Power supply is faulty, or is switched | 4. Make sure all hot lines and grounds |
| | OFF. | are operational and have correct voltage on all legs. |
| | 5. Safety switch key is at fault. | 5. Install or replace safety key, or replace switch assembly. |
| | 6. ON/OFF switch is faulty. | 6. Replace faulty switch. |
| | 7. Cable or wiring is open or has high | 7. Troubleshoot wires for internal or |
| | resistance. | external breaks, check for discon- |
| | | nected or corroded connections and |
| | | repair or replace wiring. |
| | 8. Motor is at fault. | 8. Test, repair or replace motor. |
| Machine stalls or is underpowered. | Incorrect spindle speed for task. | Decrease spindle speed. |
| | 2. Machine is undersized for the task. | Use smaller drill bits/cutters and reduce feed rate and spindle speed. |
| | 3. Bit or cutter is dull. | 3. Sharpen/replace bit or cutter. |
| | 4. Low power supply voltage. | 4. Make sure hot lines and grounds are operational w/correct voltage. |
| | 5. Belt(s) is slipping. | 5. Replace bad belts, align pulleys, and re-tension. |
| | 6. Plug or receptacle is at fault. | Test power plug and receptacle for good contact and correct wiring. |
| | 7. Motor connection is wired incorrectly. | 7. Correct motor wiring (see Page 39). |
| | 8. Pulley is slipping on shaft. | 8. Replace loose pulley and shaft. |
| | 9. Motor bearings are at fault. | 9. Rotate motor shaft for noisy or burnt |
| | | bearings, repair/replace as required. |
| | 10. Motor has overheated. | 10. Clean inside/outside of motor, let cool, and reduce workload on machine. |
| | 11. Motor is at fault. | 11. Test, repair or replace motor. |



| Symptom | Possible Cause | Possible Solution | | |
|---|--|---|--|--|
| Machine has vibration or noisy operation. | Motor or component is loose. | 1. Inspect, replace for damaged bolts/ | | |
| | | nuts and retighten with thread locking | | |
| | | fluid. | | |
| | Belts are slapping belt cover. | 2. Replace/realign belts with a new | | |
| | | matched set, and retension belts | | |
| | | (refer to Page 27). | | |
| | 3. V-belt(s) is worn or is loose. | 3. Replace belts. | | |
| | 4. Motor fan is rubbing on fan cover. | 4. Replace/repair dented fan cover, and | | |
| | | replace loose or damaged fan. | | |
| | 5. Pulley is loose. | 5. Remove pulley, replace with key as | | |
| | | required, and re-install securely. | | |
| | 6. Machine is incorrectly mounted to the | 6. Make sure floor mounting hardware is | | |
| | floor, or the floor is uneven. | tight; place shims under machine. | | |
| | 7. Chuck or cutter is at fault. | 7. Replace out-of-round chuck, replace | | |
| | | or resharpen cutter, use appropriate | | |
| | | feed rate and cutting RPM. | | |
| | 8. Motor bearings are at fault. | 8. Check bearings, replace motor or | | |
| | | bearings as required. | | |
| | 9. Spindle bearings at fault. | 9. Replace bearing. | | |

Drill Press Operations

| Comments as | Describle Course | Bassible Calution |
|--|---|---|
| Symptom | Possible Cause | Possible Solution |
| Drilling stops, but the motor still operates. | The belt is loose or worn. The pulley for the spindle shaft or the motor is slipping on the shaft. | Replace and/or adjust the belt. To resecure the pulley: UNPLUG THE DRILL PRESS. |
| | | b. Remove set screw on slipping pulley.c. Align flats on the pulley shaft with set screw hole. |
| | 3. Bit slips in chuck. | d. Reinstall and tighten the set screw.3. Tighten bit; inspect bit for burrs or other obstructions that might interfere with clamping surface. |
| The chuck wobbles or is loose on the spindle shaft. | Foreign material is stuck between the chuck-to-spindle mating surface. | Remove the chuck and clean and de- burr the tapered chuck and spindle mating surfaces, then reassemble. |
| | Damaged chuck. | 2. Replace. |
| The spindle does not retract completely in the uppermost position or it binds. | The quill shaft is gummy with sawdust and oil. | Clean the gummy substance with penetrating oil and lubricate with a light coat of oil. |
| | 2. The feed shaft return spring is weak. | 2. Increase the feed shaft return spring tension as described on Page 36 . |
| | The quill deflection screw is binding the quill. | Loosen jam nut, and slightly turn out screw where the quill binds. Retighten jam nut and recheck for binding and looseness at all spindle locations. |
| The quill has excessive deflection. | The quill shaft is at fault. The quill and/or bearings are worn. | Adjust the quill screw. Replace the quill and/or bearings. |
| Holes drilled at an angle. | 1. Table is not at 90 degrees. | 1. Adjust table angle (see Page 29). |
| Drill bit wobbles, holes are oversized. | Drill bit installed incorrectly. | Remove drill bit and reinstall. |

Depth Stop Calibration

The drill press comes fitted with a depth stop to use when drilling multiple holes at the same depth. The scale on this depth stop can be calibrated if it ever becomes incorrect.

To calibrate the depth stop:

 Loosen the calibration nut shown in Figure 42.

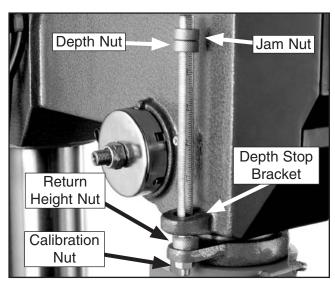


Figure 42. Depth stop assembly.

- 2. Set the depth nut to zero, and secure it with the jam nut.
- **3.** Tighten the calibration nut to hold the depth stop in position.
- **4.** Move the depth nut and jam nut to a non-zero measurement to allow the spindle to move.
- 5. Test the depth stop by measuring how far the spindle actually moves with respect to where you set the depth stop.

Feed Shaft Spring Tension

The feed shaft return spring is adjusted at the factory; however, during the life of the drill press you may want to adjust the feed shaft return spring so the feed shaft return pressure suits your operating needs.



To adjust the feed shaft spring tension:

- UNPLUG THE DRILL PRESS!
- Wipe off any oil on the spring lock cover so it does not slip in your fingers when you hold the cover from spinning (see Figure 43 for spring lock cover identification).

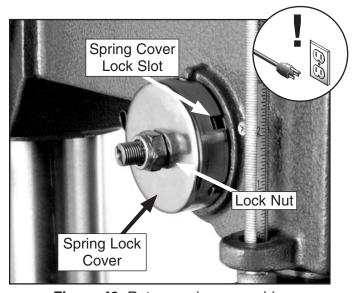


Figure 43. Return spring assembly.

3. Put on heavy leather gloves to protect your hands from possible injury if the spring uncoils during the next step.



Figure 44. Loosening cover and jam nut.

ACAUTION

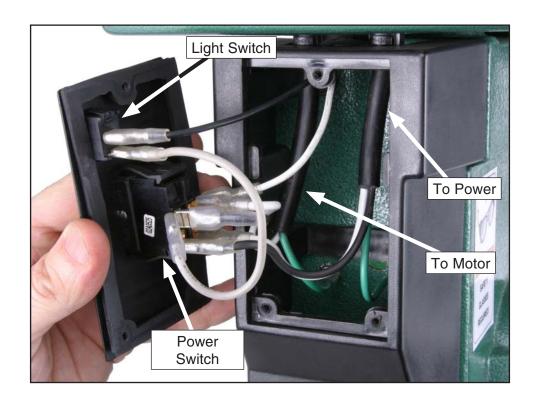
A high tension coiled spring is underneath the cover. Put on heavy leather gloves to protect yours hands from possible injury when removing the cover.

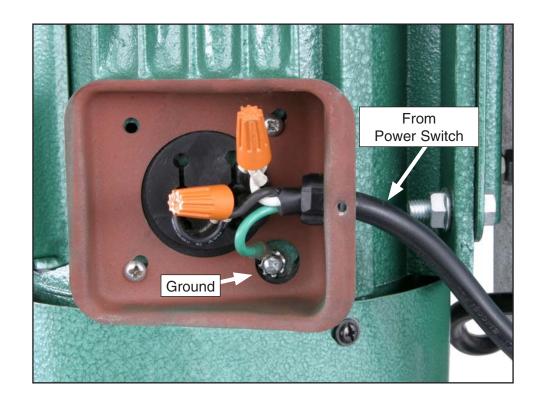
- 4. While holding the spring lock cover against the side of the head stock so the cover stays splined with the locking lug; loosen the jam nut and cover nut approximately ½" (see Figure 44).
- **5.** Pull the cover outward just enough to disengage the spring-cover lock slot from the locking lug.

Note: It is important to keep a good grip during this step. Letting go of the cover will cause the spring to rapidly uncoil, which could cause serious injury!

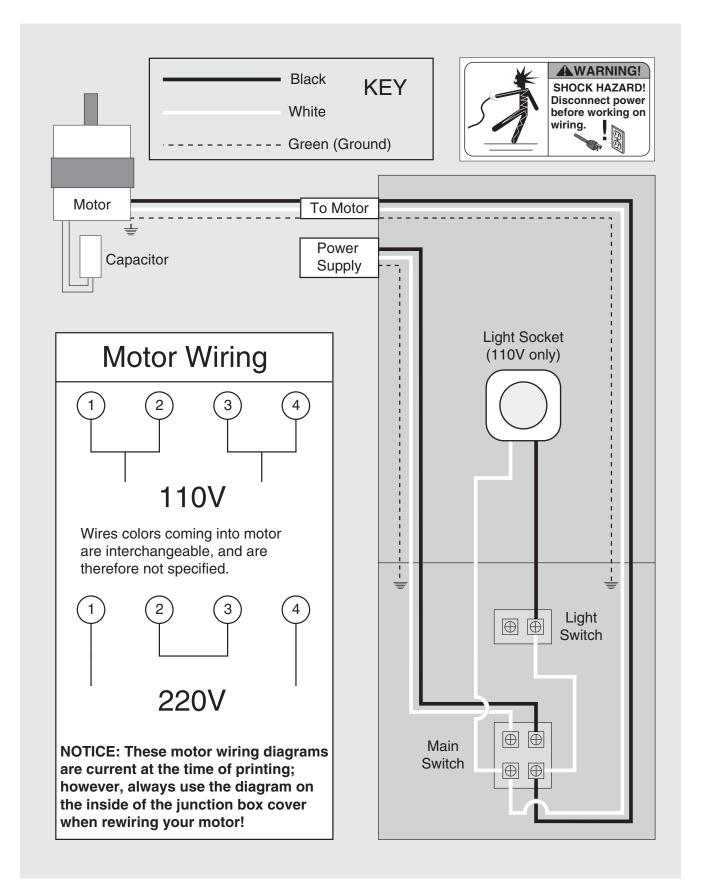
- **6.** Rotate the cover counterclockwise to increase spring tension, or let the cover slowly unwind in the clockwise direction to reduce spring tension.
- Engage the next available spring-cover lock slot with the locking lug and hold the spring cover tightly against the side of the head stock.
- 8. Tighten the lock nut against the spring cover just until the nut stops, and then back off the nut approximately ½ turn, or just enough so there is no binding at complete spindle travel.

Electrical Components

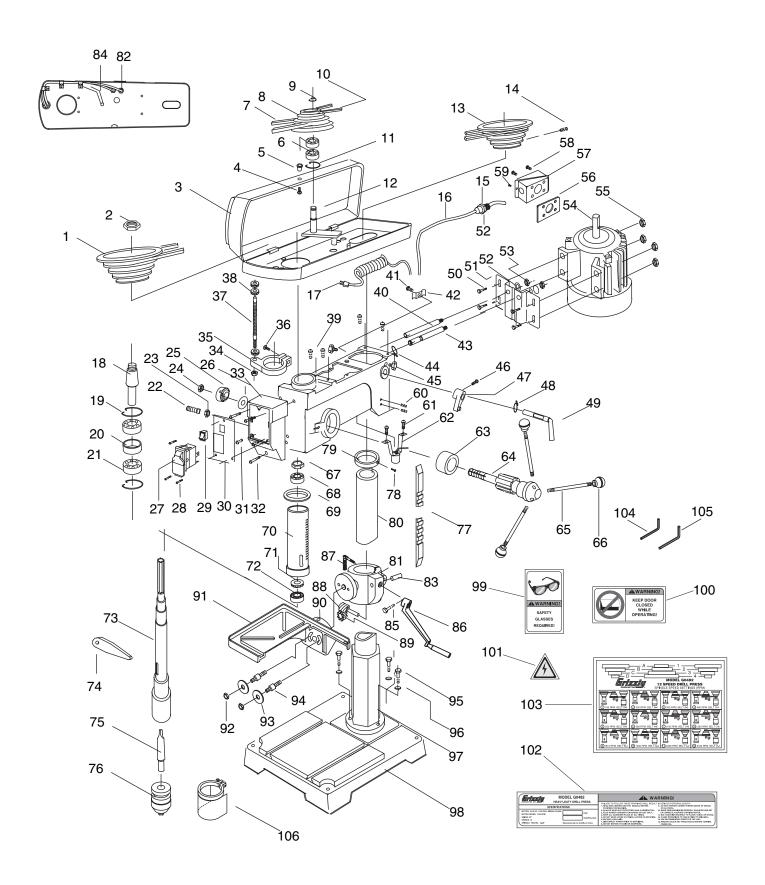




Wiring Diagram



Parts Breakdown



Parts List

| REF | PART # | DESCRIPTION |
|-----|-------------------|--------------------------|
| 1 | P0482001 | SPINDLE PULLEY |
| 2 | P0482002 | HEX NUT M33-1.5 LH |
| 3 | P0482003 | PULLEY COVER |
| 4 | PS68M | PHLP HD SCR M6-1 X 10 |
| 5 | P0482005 | COVER KNOB M6-1 |
| 6 | P6203 | BEARING 6203ZZ |
| 7 | PVA25 | V-BELT A-25 |
| 8 | P0482008 | MIDDLE PULLEY |
| 9 | PR54M | INT RETAINING RING 15MM |
| 10 | PVA40 | V-BELT A-40 |
| 11 | PR74M | INT RETAINING RING 45MM |
| 12 | P0482012 | SHAFT ASSEMBLY |
| 13 | P0482013 | MOTOR PULLEY |
| 14 | PSS01M | SET SCREW M6-1 X 10 |
| 15 | P0482015 | STRAIN RELIEF |
| 16 | P0482016 | MOTOR CORD |
| 17 | P0482017 | CORD WITH PLUG |
| 18 | P0482018 | PULLEY INSERT |
| 19 | PR75M | INT RETAINING RING 66MM |
| 20 | P0482020 | BEARING SPACER |
| 21 | P6007 | BEARING 6007ZZ |
| 22 | PSS87M | SET SCREW M8-1.25 X 28 |
| 23 | PN03M | HEX NUT M8-1.25 |
| 24 | PLN09M | LOCK NUT M12-1.75 |
| 25 | P0482025 | COIL SPRING & CAP |
| 26 | PW22M | FLAT WASHER 65MM |
| 27 | G8988 | PADDLE SWITCH |
| 28 | PS74M | PHLP HD SCR M47 X 14 |
| 29 | P0482029 | LIGHT SWITCH |
| 30 | P0482030 | SWITCH PLATE |
| 31 | PS74M | PHLP HD SCR M47 X 14 |
| 32 | PS09M | PHLP HD SCR M58 X 10 |
| 33 | P0482033 | SWITCH BOX |
| 34 | PN03M | HEX NUT M8-1.25 |
| 35 | P0482035 | DEPTH STOP BRACKET |
| 36 | PS04M | PHLP HD SCR M8-1.25 X 20 |
| 37 | P0482037 | POST DEPTH STOP |
| 38 | P0482038 | DEPTH STOP NUT M12-1.75 |
| 39 | PS68M | PHLP HD SCR M6-1 X 10 |
| 40 | P0482040 | MOTOR BRACKET SUPPORT |
| 41 | PS09M | PHLP HD SCR M58 X 10 |
| 42 | P0482042 | CORD CLAMP |
| 43 | P0482043 | MOTOR BRACKET SUPPORT |
| 44 | PR05M | EXT RETAINING RING 15MM |
| 45 | P0482045 | WING SCREW M10-1.5 X 32 |
| 46 | PS39M | PHLP HD SCR M8-1.25 X 10 |
| 46 | P0482047 | ADJUSTING LEVER |
| 48 | P0482047 PR02M | EXT RETAINING RING 14MM |
| - | | LEVER SHAFT |
| 49 | P0482049 | HEX BOLT M8-1.25 X 25 |
| 50 | PB07M | |
| 51 | P0482051 | MOTOR PLATE |
| 52 | PLW05M | LOCK WASHER 12MM |
| 53 | PN09M | HEX NUT M12-1.75 |

| REF | PART# | DESCRIPTION |
|-----|-----------|------------------------------|
| 54 | P0482054 | MOTOR |
| 55 | PN03M | HEX NUT M8-1.25 |
| 56 | P0482056 | RUBBER SEAL |
| 57 | P0482057 | JUCTION BOX |
| 58 | PS05M | PHLP HD SCR M58 X 8 |
| 59 | PS17M | PHLP HD SCR M47 X 6 |
| 60 | PSS13M | SET SCREW M10-1.5 X 12 |
| 61 | PS09M | PHLP HD SCR M58 X 10 |
| 62 | P0482062 | LAMP BRACKET |
| 63 | P0482063 | SPACER |
| 64 | P0482064 | PINION SHAFT |
| 65 | P0482065 | DOWNFEEED HANDLE M10-1.75 |
| 66 | P0482066 | DOWNFEED KNOB M10-1.75 |
| 67 | PN41M | HEX NUT M25-2 LH |
| 68 | P6005 | BEARING 6005ZZ |
| 69 | P0482069 | QUILL BASKET |
| 70 | P0482070 | QUILL |
| 71 | P51107 | THRUST BEARING 51107 |
| 72 | P6007 | BEARING 6007ZZ |
| 73 | P0482073 | SPINDLE |
| 74 | P0482074 | DRIFT KEY |
| 75 | P0482075 | ARBOR MT4/JT3 |
| 76 | G8583 | KEYLESS CHUCK 5/8" / JT3 |
| 77 | P0482077 | RACK |
| 78 | PS14M | PHLP HD SCR M6-1 X 12 |
| 79 | P0482079 | RACK COLLAR |
| 80 | P0482080 | COLUMN |
| 81 | P0482081 | TABLE BRACKET |
| 82 | P0482082 | CORD PROTECTOR |
| 83 | P0482083 | GEAR SHAFT |
| 84 | P0482084 | CORD FOR LAMP |
| 85 | PB03M | HEX BOLT M8-1.25 X 16 |
| 86 | P0482086 | ADJUSTMENT HANDLE |
| 87 | P0482087 | COLUMN LOCK HANDLE |
| 88 | P0482088 | ELEVATING WORM |
| 89 | P0482089 | HELICAL GEAR |
| 90 | P0482090 | ZERO SCALE |
| 91 | P0482091 | TABLE |
| 92 | PN32M | HEX NUT M14-2 |
| 93 | PW10M | FLAT WASHER 14MM |
| 94 | P0482094 | ARM STUD M14-2 X 63 |
| 95 | PB33M | HEX BOLT M12-1.75 X 50 |
| 96 | PLW05M | LOCK WASHER 12MM |
| 97 | P0482097 | BASE FLANGE |
| 98 | P0482098 | BASE |
| 99 | PLABEL-11 | SAFETY GLASSES 2" X 3-5"/16" |
| 100 | P0482100 | DOOR CLOSED HORIZONTAL |
| 101 | PLABEL-14 | ELECTRICITY |
| 102 | P0482102 | MACHINE ID LABEL |
| 103 | P0482103 | SPEED CHART |
| 104 | PAW03M | HEX WRENCH 3MM |
| 105 | PAW05M | HEX WRENCH 5MM |
| 106 | P0482106 | CHUCK GUARD ASSEMBLY |
| 100 | 1.0407100 | OF TOOK GUARD ASSEMBLY |

WARRANTY AND RETURNS

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

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

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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.

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| | What is your age group? 20-29 50-59 | 30-39 60-69 | 40-49 70+ | |
| 5. I | How long have you been a w | oodworker/metalworker? _ 2-8 Years 8-20 Ye | ars20+ Years | |
| | How many of your machines | or tools are Grizzly? 3-5 6-9 | 10+ | |
| 7. [| Do you think your machine re | epresents a good value? | No | |
| 8. \ | Would you recommend Grizz | ly Industrial to a friend? | No | |
| | Would you allow us to use yo Note: We never use names r | our name as a reference for Grizzly more than 3 times. | - | |
| 10. (| Comments: | | | |

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