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

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

Manual Accuracy

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

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

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

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

Machine Description

The G7945 and G7946 function and operate the same but have the following differences:

G7945
- Table Size................................. 9”L x 8½”W
- Max. Movement of Work Table.............. 9½”
- Number of T-Slots.......................... 2
- Swing.......................................... 34”
- Floor-to-Table Height...................... 6½”–16”
- Max. Distance From Chuck to Table... 12¾”
- Spindle Taper............................... JT#33

G7946
- Table Size................................. 12½” Dia.
- Max. Movement of Work Table.............. 24½”
- Number of T-Slots.......................... 6
- Swing.......................................... 34”
- Floor-to-Table Height...................... 22½”–47”
- Max. Distance From Chuck to Table... 29½”
- Spindle Taper............................... JT#33
Identification

Become familiar with the names and locations of the controls and features shown below to better understand the instructions in this manual.

A. Power Switch
B. Headstock
C. Downfeed Handles
D. Horizontal Adjustment Knob
E. Lock Levers
F. Belt Tension Lock Knobs
G. Crank Handle
H. Lock Pin
I. Headstock Angle Tilt Scale
J. Spindle Return Spring
K. Depth Stop
L. Spindle

**WARNING**

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

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

Refer to the following figures and descriptions to become familiar with the basic controls and components of this machine. Understanding these items and how they work will help you understand the rest of the manual and minimize your risk of injury when operating this machine.

A. **Power Switch:** Turns motor **ON/OFF**.

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

C. **Belt Cover:** Provides access to drive belt for spindle-speed changes.

D. **Belt Tension Lock Knobs:** Secures motor in position to set belt tension.

E. **Horizontal Adjustment Knob:** Moves the headstock forward and backward over the column.

F. **Downfeed Handles:** Move the quill up and down.

G. **Table Height Crank Handle:** Raises/lowers table.

H. **Chuck Guard & Chuck:** Chuck guard protects user from flying debris; chuck accepts drill bits from \(\frac{1}{16}\)" to \(\frac{5}{8}\)" and mounts to the spindle with a JT#33 taper.

I. **Headstock 90° Lock Pin:** Engages when headstock is positioned with spindle at 90° to table. When pulled out, allows headstock to be tilted left/right.

J. **Scale:** Indicates headstock angle.

K. **Spindle Return Spring:** Automatically returns quill into headstock.

L. **Depth Stop:** Limits quill travel to a pre-set drilling depth.

M. **Spindle:** Used to mount chuck and milling accessories with a JT#33 taper.

N. **Table Rotation Lock Lever:** Locks table rotation.

O. **Column Lock Lever:** Locks table height.
MODEL G7945 5 SPEED BENCH-TOP RADIAL DRILL PRESS

Product Dimensions:
- Weight: 88 lbs.
- Width (side-to-side) x Depth (front-to-back) x Height: 11-1/2 x 33-1/2 x 31-1/2 in.
- Footprint (Length x Width): 13-1/2 x 8-1/2 in.

Shipping Dimensions:
- Type: Cardboard Box
- Content: Machine
- Weight: 97 lbs.
- Length x Width x Height: 36 x 18 x 13 in.
- Must Ship Upright: No

Electrical:
- Power Requirement: 120V, Single-Phase, 60 Hz
- Prewired Voltage: 120V
- Full-Load Current Rating: 4.7A
- Minimum Circuit Size: 15A
- Connection Type: Cord & Plug
- Power Cord Included: Yes
- Power Cord Length: 7 ft.
- Power Cord Gauge: 18 AWG
- Plug Included: Yes
- Included Plug Type: 5-15
- Switch Type: Paddle Safety Switch w/Removable Key

Motors:
Main
- Horsepower: 1/2 HP
- Phase: Single-Phase
- Amps: 4.7
- Speed: 1725 RPM
- Type: TEFC Capacitor-Start Induction
- Power Transfer: V-Belt Drive
- Bearings: Shielded & Permanently Lubricated
- Centrifugal Switch/Contacts Type: Internal
Main Specifications:

Operation Information

Type.............................................................. Radial
Swing........................................................................ 34 in.
Spindle Taper....................................................... JT#33
Spindle Travel....................................................... 3-1/4 in.
Max. Distance From Spindle to Column.................. 5-1/2 – 17 in.
Max. Distance From Spindle to Table........................ 12-3/4 in.
Number of Spindle Speeds........................................ 5
Range of Spindle Speeds........................................... 550 – 3000 RPM
Max. Head Tilt (Left/Right)...................................... Left 90/Right 45 deg.
Max. Head Swivel................................................... 360 deg.
Drilling Capacity (Mild Steel)................................. 1/2 in.
Drill Chuck Type..................................................... JT33 Key Chuck
Drill Chuck Size................................................... 1/16 – 5/8 in.

Spindle Information

Distance From Spindle to Base.................................. 17-1/2 in.
Quill Diameter....................................................... 1.575 in.

Table Information

Max. Table Tilt (Left/Right)...................................... 90 deg.
Table Swing.......................................................... 360 deg.
Table Swivel Around Center................................... 360 deg.
Table Swivel Around Column.................................. 360 deg.
Max. Movement of Work Table................................. 9-1/2 in.
Table Length......................................................... 9 in.
Table Width.......................................................... 8-5/8 in.
Table Thickness..................................................... 1-1/4 in.
Vertical Table Travel.............................................. Crank Handle Operation
Number of T-Slots................................................... 2
T-Slot Size............................................................ 5/8 in.
T-Slot Centers....................................................... 6 in.
Floor-To-Table Height........................................... 6-1/2 – 16 in.

Construction

Table................................................................................ Precision-Ground Cast Iron
Column........................................................................... Steel
Spindle Housing......................................................... Cast Iron
Head............................................................................... Cast Iron
Base.............................................................................. Cast Iron
Paint Type/Finish............................................................. Enamel

Other Related Information

Base Length........................................................... 13-1/2 in.
Base Width............................................................. 8-1/2 in.
Column Diameter.................................................... 2.360 in.
Depth Stop Type........................................................ Threaded Rod with Positive Stop
Has Work Light........................................................... No

Other Specifications:

Country of Origin.......................................................... China
Warranty ...................................................................... 1 Year
Approximate Assembly & Setup Time.......................... 30 Minutes
Serial Number Location............................................. ID Label on Head
ISO 9001 Factory.......................................................... Yes
Certified by a Nationally Recognized Testing Laboratory (NRTL)................. Yes
Awards ........................................................................ Popular Woodworking Editor's Choice Tool Buying Guide
MODEL G7946 5 SPEED FLOOR RADIAL DRILL PRESS

Product Dimensions:

- Weight: 138 lbs.
- Width (side-to-side) x Depth (front-to-back) x Height: 14 x 32 x 64-1/2 in.
- Footprint (Length x Width): 18 x 11 in.

Shipping Dimensions:

- Type: Cardboard Box
- Content: Machine
- Weight: 147 lbs.
- Length x Width x Height: 56 x 20 x 10 in.
- Must Ship Upright: No

Electrical:

- Power Requirement: 120V, Single-Phase, 60 Hz
- Prewired Voltage: 120V
- Full-Load Current Rating: 4.7A
- Minimum Circuit Size: 15A
- Connection Type: Cord & Plug
- Power Cord Included: Yes
- Power Cord Length: 7 ft.
- Power Cord Gauge: 18 AWG
- Plug Included: Yes
- Included Plug Type: 5-15
- Switch Type: Paddle Safety Switch w/Removable Key

Motors:

Main

- Horsepower: 1/2 HP
- Phase: Single-Phase
- Amps: 4.7A
- Speed: 1725 RPM
- Type: TEFC Capacitor-Start Induction
- Power Transfer: V-Belt Drive
- Bearings: Shielded & Permanently Lubricated
- Centrifugal Switch/Contacts Type: Internal
Main Specifications:

Operation Information

<table>
<thead>
<tr>
<th>Type</th>
<th>Radial</th>
</tr>
</thead>
<tbody>
<tr>
<td>Swing</td>
<td>34 in.</td>
</tr>
<tr>
<td>Spindle Taper</td>
<td>JT#33</td>
</tr>
<tr>
<td>Spindle Travel</td>
<td>3-1/4 in.</td>
</tr>
<tr>
<td>Max. Distance From Spindle to Column</td>
<td>5-1/2 – 17 in.</td>
</tr>
<tr>
<td>Max. Distance From Spindle to Table</td>
<td>29-1/2 in.</td>
</tr>
<tr>
<td>Number of Spindle Speeds</td>
<td>5</td>
</tr>
<tr>
<td>Range of Spindle Speeds</td>
<td>550 – 3000 RPM</td>
</tr>
<tr>
<td>Max. Head Tilt (Left/Right)</td>
<td>Left 90/Right 45 deg.</td>
</tr>
<tr>
<td>Max. Head Swivel</td>
<td>360 deg.</td>
</tr>
<tr>
<td>Drilling Capacity (Mild Steel)</td>
<td>1/2 in. in Steel</td>
</tr>
<tr>
<td>Drill Chuck Type</td>
<td>JT33 Key Chuck</td>
</tr>
<tr>
<td>Drill Chuck Size</td>
<td>1/16 – 5/8 in.</td>
</tr>
</tbody>
</table>

Spindle Information

| Distance From Spindle to Base | 49-3/4 in.                  |
| Quill Diameter               | 1.575 in.                   |

Table Information

| Max. Table Tilt (Left/Right) | 90 deg.                     |
| Table Swing                 | 360 deg.                    |
| Table Swivel Around Center  | 360 deg.                    |
| Table Swivel Around Column  | 360 deg.                    |
| Max. Movement of Work Table | 24-1/2 in.                  |
| Table Diameter              | 12-3/16 in.                 |
| Table Thickness             | 1 in.                       |
| Vertical Table Travel       | Crank Handle Operation      |
| Number of T-Slots           | 6                            |
| T-Slot Size                 | 5/8 in.                     |
| T-Slot Centers              | 3-1/4 in.                   |
| Floor-To-Table Height       | 22-1/2 – 47 in.             |

Construction

<table>
<thead>
<tr>
<th>Table</th>
<th>Precision-Ground Cast Iron</th>
</tr>
</thead>
<tbody>
<tr>
<td>Column</td>
<td>Steel</td>
</tr>
<tr>
<td>Spindle Housing</td>
<td>Cast Iron</td>
</tr>
<tr>
<td>Head</td>
<td>Cast Iron</td>
</tr>
<tr>
<td>Base</td>
<td>Cast Iron</td>
</tr>
<tr>
<td>Paint Type/Finish</td>
<td>Enamel</td>
</tr>
</tbody>
</table>

Other Related Information

| Base Length                    | 17-1/2 in.                  |
| Base Width                     | 10-1/2 in.                  |
| Mobile Base                    | D2260A                      |
| Column Diameter                | 2.790 in.                   |
| Depth Stop Type                | Hub                          |
| Has Work Light                 | No                           |

Other Specifications:

| Country of Origin              | China                        |
| Warranty                       | 1 Year                       |
| Approximate Assembly & Setup Time | 30 Minutes                  |
| Serial Number Location        | ID Label on Head             |
| ISO 9001 Factory              | Yes                          |
| Certified by a Nationally Recognized Testing Laboratory (NRTL) | Yes |
| Awards                         | Popular Woodworking Editor's Choice Tool Buying Guide |
SECTION 1: SAFETY

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

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

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

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

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

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

Safety Instructions for Machinery

**WARNING**

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

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

⚠️ WARNING

Serious injury or death can occur from getting clothing, jewelry, or long hair entangled in rotating spindle or bit/cutting tool. Contact with rotating bit/cutting tool can result in severe cuts or amputation of fingers. Flying metal chips can cause blindness or eye injuries. Broken bits/cutting tools, unsecured workpieces, chuck keys, or other adjustment tools thrown from rotating spindle can strike nearby operator or bystanders with deadly force. To reduce the risk of these hazards, operator and bystanders MUST completely heed hazards and warnings below.

**EYE/FACE/HAND PROTECTION.** Flying chips created by drilling can cause eye injuries or blindness. Always wear a face shield in addition to safety glasses. Always keep hands and fingers away from drill bit/cutting tool. Avoid awkward hand positions, where a sudden slip could cause hand to move into bit/cutting tool.

**AVOIDING ENTANGLEMENT.** DO NOT wear loose clothing, gloves, or jewelry. Tie back long hair. Keep all guards in place and secure. Always allow spindle to stop on its own. DO NOT stop spindle using your hand or any other object.

**REMOVING ADJUSTMENT TOOLS.** Chuck key, wrenches, and other tools left on machine can become deadly projectiles when spindle is started. Remove all loose items or tools used on spindle immediately after use.

**CORRECT SPINDLE SPEED.** Using wrong spindle speed can cause bits/cutting tools to break and strike operator or bystanders. Follow recommended speeds and feeds for each size/type of bit/cutting tool and workpiece material.

**SECURING BIT/CUTTING TOOL.** Firmly secure bit/cutting tool in chuck so it cannot fly out of spindle during operation or startup.

**DRILLING PREPARATION.** To avoid loss of drilling control or bit breakage, only drill into a flat surface that is approximately perpendicular to bit. Clear table of all objects before starting spindle. Never start spindle with bit pressed against workpiece.

**SECURING TABLE AND HEADSTOCK.** To avoid loss of control leading to accidental contact with tool/bit, tighten all table and headstock locks before operating drill press.

**WORKPIECE CONTROL.** An unsecured workpiece may unexpectedly shift, spin out of control, or be thrown if bit/cutting tool “grabs” during operation. Clamp workpiece to table or in table-mounted vise, or brace against column to prevent rotation. NEVER hold workpiece by hand during operation. NEVER start machine with bit/cutting tool touching workpiece; allow spindle to gain full speed before drilling.

**INSPECTING BIT/CUTTING TOOL.** Damaged bits/cutting tools may break apart during operation and hit operator or bystanders. Dull bits/cutting tools increase cutting resistance and are more likely to grab and spin/throw workpiece. Always inspect bits/cutting tools for sharpness, chips, or cracks before each use. Replace dull, chipped, or cracked bits/cutting tools immediately.

⚠️ WARNING

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

⚠️ CAUTION

No list of safety guidelines can be complete. Every shop environment is different. Always consider safety first, as it applies to your individual working conditions. Use this and other machinery with caution and respect. Failure to do so could result in serious personal injury, damage to equipment, or poor work results.
SECTION 2: POWER SUPPLY

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

⚠️ WARNING
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 120V
G7945............................................... 4.7 Amps
G7946............................................... 4.7 Amps

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

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

⚠️ WARNING
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.

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

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

⚠️ CAUTION
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.
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 Size .......................14 AWG
Maximum Length (Shorter is Better)........50 ft.

Figure 4. Typical 5-15 plug and receptacle.

GROUNDED 5-15 RECEPTACLE

Grounding Prong

5-15 PLUG

Neutral Hot

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.
SECTION 3: SETUP

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

⚠️ WARNING
Wear safety glasses during the entire setup process!

⚠️ WARNING
HEAVY LIFT!
Straining or crushing injury may occur from improperly lifting machine or some of its parts. To reduce this risk, get help from other people and use a forklift (or other lifting equipment) rated for weight of this machine.

Needed for Setup

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

<table>
<thead>
<tr>
<th>Items Needed</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open-Ended Wrench 16mm</td>
<td>1</td>
</tr>
<tr>
<td>Open-Ended Wrench 3/4&quot;</td>
<td>1</td>
</tr>
<tr>
<td>An Assistant for Lifting Help</td>
<td>1</td>
</tr>
<tr>
<td>Rubber Mallet</td>
<td>1</td>
</tr>
<tr>
<td>Mounting Hardware 1/2&quot; (Page PB)</td>
<td>Varies</td>
</tr>
<tr>
<td>Mineral Spirits</td>
<td>As Needed</td>
</tr>
<tr>
<td>Shop Rags</td>
<td>As Needed</td>
</tr>
<tr>
<td>Safety Glasses (Per Person)</td>
<td>1</td>
</tr>
</tbody>
</table>

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.

⚠️ WARNING
SUFFOCATION HAZARD!
Keep children and pets away from plastic bags or packing materials shipped with this machine. Discard immediately.
### Inventory

If any nonproprietary parts are missing (e.g. a nut or a washer), we would be glad to replace them, but for the sake of expediency, you can get replacements at a hardware store.

Use Figure 5 and the inventory list below to inventory your drill press parts:

<table>
<thead>
<tr>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Headstock</td>
<td>1</td>
</tr>
<tr>
<td>B. Base</td>
<td>1</td>
</tr>
<tr>
<td>C. Chuck Guard Assembly</td>
<td>1</td>
</tr>
<tr>
<td>D. Wrench</td>
<td>1</td>
</tr>
<tr>
<td>E. Hex Bolt and Wingnut Set</td>
<td>1</td>
</tr>
<tr>
<td>F. Column</td>
<td>1</td>
</tr>
<tr>
<td>G. Key</td>
<td>1</td>
</tr>
<tr>
<td>H. Chuck</td>
<td>3</td>
</tr>
<tr>
<td>I. Lock Levers</td>
<td>2 Small</td>
</tr>
<tr>
<td>J. Crank Arm and Handle</td>
<td>1 Ea</td>
</tr>
<tr>
<td>K. Downfeed Handles</td>
<td>3</td>
</tr>
<tr>
<td>L. Table</td>
<td>1</td>
</tr>
<tr>
<td>M. Lock Shoe (Headstock)</td>
<td>1</td>
</tr>
<tr>
<td>N. Table Support Arm (G7946)</td>
<td>1</td>
</tr>
<tr>
<td>O. Column Support Arm (G7946)</td>
<td>1</td>
</tr>
<tr>
<td>P. Hardware Bag (Not Shown)</td>
<td>1</td>
</tr>
<tr>
<td>— Hex Bolts M8-1.25 x 20 (G7945)</td>
<td>4</td>
</tr>
<tr>
<td>— Hex Bolts M10-1.5 x 40 (G7946)</td>
<td>4</td>
</tr>
<tr>
<td>— Hex Wrench 3mm</td>
<td>1</td>
</tr>
<tr>
<td>— Hex Wrench 4mm</td>
<td>1</td>
</tr>
<tr>
<td>— Phillips Head Screws M4-.7 x 10</td>
<td>4</td>
</tr>
<tr>
<td>— Flat Washers 4mm</td>
<td>8</td>
</tr>
</tbody>
</table>

**Figure 5.** Parts inventory for Models G7945 (top) and G7946 (bottom).
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 (WD40 works well)
- Safety glasses & disposable gloves
- Plastic paint scraper (optional)

**Basic steps for removing rust preventative:**

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

**WARNING**
Gasoline and petroleum products have low flash points and can explode or cause fire if used to clean machinery. Avoid using these products to clean machinery.

**CAUTION**
Many cleaning solvents are toxic if inhaled. Only work in a well-ventilated area.

**NOTICE**
Avoid chlorine-based solvents, such as acetone or brake parts cleaner, that may damage painted surfaces.

T23692—Orange Power Degreaser
A great product for removing the waxy shipping grease from the non-painted parts of the machine during clean up.

**Figure 6. T23692 Orange Power Degreaser.**
Site Considerations

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

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

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

Electrical Installation
Place this machine near an existing power source. Make sure all power cords are protected from traffic, material handling, moisture, chemicals, or other hazards. Make sure to leave enough space around machine to disconnect power supply or apply a lockout/tagout device, if required.

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

Figure 7. Working clearances.
Mounting to Workbench (G7945)

To prevent tipping injury of loss of control, the Model G7945 must be secured to a workbench, tool table, or other stable surface.

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.

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

Anchoring to Floor (G7946)

Number of Mounting Holes ......................... 4
Diameter of Mounting Hardware ............... ½"

Anchoring machinery to the floor prevents tipping or shifting and reduces vibration that may occur during operation, resulting in a machine that runs slightly quieter and feels more solid.

Anchoring to Concrete Floors

Lag shield anchors with lag screws (see below) are a popular way to anchor machinery to a concrete floor, because the anchors sit flush with the floor surface, making it easy to unbolts and move the machine later, if needed. However, anytime local codes apply, you MUST follow the anchoring methodology specified by the code.
Mounting to Mobile Base (G7946)

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 11.

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 base plate is described in this sub-section.

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

Figure 11. Drill press mounted on mobile base, using a base plate for support.

<table>
<thead>
<tr>
<th>Items Needed</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plywood ¾&quot; x 23¾&quot; x 23¾&quot;</td>
<td>2</td>
</tr>
<tr>
<td>Wood Glue</td>
<td>As Needed</td>
</tr>
<tr>
<td>Wood Screws #6 x 1¼&quot;</td>
<td>24</td>
</tr>
<tr>
<td>Hex Bolts (2¼&quot; Long, Sized for Base Plate)</td>
<td>4</td>
</tr>
<tr>
<td>Hex Nuts (Sized for Hex Bolts)</td>
<td>4</td>
</tr>
<tr>
<td>Lock Washers (Sized for Hex Bolts)</td>
<td>4</td>
</tr>
<tr>
<td>Flat Washers (Sized for Hex Bolts)</td>
<td>8</td>
</tr>
<tr>
<td>Assistant to Lift Drill Press</td>
<td>1</td>
</tr>
</tbody>
</table>

To make and use the base plate:

1. Glue the two pieces of plywood together, aligning edges and corners to make one thick piece.

2. Use wood screws to secure boards together from both sides.

3. Allow 24 hours for glue to dry before mounting drill press.

4. Place plywood base plate on mobile base.

5. Drill holes through base plate and metal plates at mobile base corners.

6. Secure base plate to mobile base with hex bolts, hex nuts, flat washers and lock washers, as shown in Figure 12.

Figure 12. Mounting base plate to mobile base.

⚠️ CAUTION ⚠️

Drill presses are top-heavy and must be securely attached to a large-footprint base plate when used with a mobile base. Failure to use a base plate greatly increases possibility of tipping and personal injury.
7. With help of an assistant, place drill press on base plate.

8. Position drill press close to front of mobile base, so mobile base will not become a tripping hazard.

9. Mount drill press to base plate with lag bolts and flat washers, as shown in Figure 13, or with through bolts, flat washers, and hex nuts.

**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).

**To assemble the machine:**

1. Place the column on the base and align the mounting holes.

2. Secure the column to the base with the four hex bolts, as shown in Figure 14.

3. Check to make sure the pinion gear is fully inserted into the hole on the side of the table bracket shown in Figure 15.
4. Slide the crank arm over the pinion gear shaft and align the set screw in the crank arm with the flat portion of the shaft (see Figure 16).

5. Thread the handle into the crank arm.

6. Remove column ring (Figure 17) by loosening set screw and remove rack (Figure 16). The end of the rack that has teeth extending closest to the edge must be positioned down.

7. Insert rack into table bracket pocket so gear teeth mesh with rack as shown in Figure 16.

8. Slide table bracket and rack over column. Let them slide down column until bottom of rack contacts shoulder of column support.

9. Slide the column ring over the column with the beveled edge facing down (see Figure 17), fit the beveled edge of the column ring over the rack, and tighten the set screw.

   **Note:** Do not overtighten the set screw or you may split the column ring. Also make sure the rack is seated firmly in the lower ring.

10. Thread the large lock lever into the non-threaded side on the back of the column support arm about three turns, for now.

11. (G7946 Only): Install the table support arm onto the column support arm, then install the table (see Figure 18).

12. Thread a small lock lever into the non-threaded side on the table support arm and column support arm about three turns for now (see Figure 18).

13. Insert the included lock shoe into the recessed pocket on the inside of the headstock opening as shown in Figure 19.
14. With the help of an assistant, lift the headstock over the top end of the column. When the underside of the headstock is lined up with the column, slide the headstock onto the column until it stops (approximately 2”).

**Note:** An alternate method is to lay the headstock and column on the floor, slide them together, tilt the assembly up, and position the drill press upright on its base.

15. Screw two small lock levers into each side of horizontal column bracket (see Figure 20).

16. Tightly thread the downfeed handles into the hub as shown in Figure 21.

17. Slide chuck guard onto bottom of depth-stop bracket, as shown in Figure 22.

18. Secure chuck guard to bracket with (4) M4-.7 x 10 Phillips head screws and (4) 4mm flat washers, as shown in Figure 23.
Joining Drill Chuck & Arbor

An arbor is included for the drill chuck that comes with this machine. The following procedure describes how to install the arbor in the chuck.

After the arbor is installed in the drill chuck, it is very difficult to separate the assembly. If you would like to use a different chuck in the future, we recommend obtaining a new arbor.

Important: *DO NOT install the drill chuck and arbor assembly into the spindle until AFTER the test run.*

To join drill chuck and arbor:

1. Use acetone or lacquer thinner to clean drill chuck and arbor mating surfaces, especially the bore.
2. Retract chuck jaws completely into chuck.
3. Insert small end of arbor into chuck.
4. Hold assembly by the arbor and tap chuck onto a block of wood with medium force, as illustrated below.
5. Attempt to separate drill Chuck and arbor by hand—if they separate, repeat Steps 3–4.

Figure 24. Tapping drill chuck/arbor on block of wood.
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.

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

⚠️ WARNING

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.

⚠️ WARNING

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 the machine:

1. Clear all setup tools away from machine.
2. Connect machine to power supply.
3. Turn machine **ON**, verify motor operation, and then turn machine **OFF**.

   The motor should run smoothly and without unusual problems or noises.

4. Remove switch disabling key, as shown in Figure 25.

   ![Figure 25. Removing switch key from paddle switch.](image)

5. Try to start machine with paddle switch. The machine should not start.
   - If the machine does not start, the switch disabling feature is working as designed.
   - If the machine does start, immediately stop the machine. The switch disabling feature is not working correctly. This safety feature must work properly before proceeding with regular operations. Call Tech Support for help.
SECTION 4: OPERATIONS

Operation Overview

The purpose of this overview is to provide the novice machine operator with a basic understanding of how the machine is used during operation, so the machine controls/components discussed later in this manual are easier to understand.

Due to the generic nature of this overview, it is **not** intended to be an instructional guide. To learn more about specific operations, read this entire manual, seek additional training from experienced machine operators, and do additional research outside of this manual by reading "how-to" books, trade magazines, or websites.

To complete a typical operation, the operator does the following:

1. Examines workpiece to make sure it is suitable for drilling.
2. Puts on required safety glasses and face shield.
3. Firmly secures workpiece to table using a vise or T-slot clamps.
4. Installs correct cutting tool for operation.
5. Adjusts table to correct height, then locks it in place.
6. Selects appropriate spindle speed according to V-belt configuration chart located inside belt cover.
7. Connects machine to power, and turns machine **ON**.
8. Begins drilling.
9. When finished, turns machine **OFF** and disconnects it from power.

---

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

**WARNING**
To reduce risk of eye injury from flying chips or lung damage from breathing dust, always wear safety glasses and a respirator when operating this machine.

**WARNING**
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.
Choosing Speeds

Using the Drill Bit Speed Chart

The chart shown in Figure 26 is intended as a guide only. Always follow the 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

<table>
<thead>
<tr>
<th>Material</th>
<th>Lubrication Suggestions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wood/Cast Iron</td>
<td>None</td>
</tr>
<tr>
<td>Plastics</td>
<td>Soapy Water</td>
</tr>
<tr>
<td>Brass</td>
<td>Water-Based Lubricant</td>
</tr>
<tr>
<td>Aluminum</td>
<td>Paraffin-Based Lubricant</td>
</tr>
<tr>
<td>Mild Steel</td>
<td>Oil-Based Lubricant</td>
</tr>
</tbody>
</table>

CAUTION

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.

<table>
<thead>
<tr>
<th>Twist/Braid Point Drill Bits</th>
<th>Soft Wood</th>
<th>Hard Wood</th>
<th>Plastic</th>
<th>Brass</th>
<th>Aluminum</th>
<th>Mild Steel</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/16&quot; – 3/16&quot;</td>
<td>3000</td>
<td>2500</td>
<td>2500</td>
<td>2500</td>
<td>3000</td>
<td>2500</td>
</tr>
<tr>
<td>13/64&quot; – 3/8&quot;</td>
<td>2000</td>
<td>1500</td>
<td>2000</td>
<td>1250</td>
<td>2500</td>
<td>1250</td>
</tr>
<tr>
<td>25/64&quot; – 5/8&quot;</td>
<td>1500</td>
<td>750</td>
<td>1500</td>
<td>750</td>
<td>1500</td>
<td>600</td>
</tr>
<tr>
<td>11/16&quot; – 1&quot;</td>
<td>750</td>
<td>500</td>
<td>1000</td>
<td>400</td>
<td>1000</td>
<td>350</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spade/Forstner Bits</th>
<th>Soft Wood</th>
<th>Hard Wood</th>
<th>Plastic</th>
<th>Brass</th>
<th>Aluminum</th>
<th>Mild Steel</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot; – 1/2&quot;</td>
<td>2000</td>
<td>1500</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9/16&quot; – 1&quot;</td>
<td>1500</td>
<td>1250</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1-1/8&quot; – 1-7/8&quot;</td>
<td>1000</td>
<td>750</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2–3&quot;</td>
<td>500</td>
<td>350</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hole Saws</th>
<th>Soft Wood</th>
<th>Hard Wood</th>
<th>Plastic</th>
<th>Brass</th>
<th>Aluminum</th>
<th>Mild Steel</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2&quot; – 7/8&quot;</td>
<td>500</td>
<td>500</td>
<td>600</td>
<td>600</td>
<td>600</td>
<td>500</td>
</tr>
<tr>
<td>1&quot; – 1-7/8&quot;</td>
<td>400</td>
<td>400</td>
<td>500</td>
<td>500</td>
<td>500</td>
<td>400</td>
</tr>
<tr>
<td>2&quot; – 2-7/8&quot;</td>
<td>300</td>
<td>300</td>
<td>400</td>
<td>400</td>
<td>400</td>
<td>300</td>
</tr>
<tr>
<td>3&quot; – 3-7/8&quot;</td>
<td>200</td>
<td>200</td>
<td>300</td>
<td>300</td>
<td>300</td>
<td>200</td>
</tr>
<tr>
<td>4&quot; – 5&quot;</td>
<td>100</td>
<td>100</td>
<td>200</td>
<td>200</td>
<td>200</td>
<td>100</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Rosette Cutters</th>
<th>Soft Wood</th>
<th>Hard Wood</th>
<th>Plastic</th>
<th>Brass</th>
<th>Aluminum</th>
<th>Mild Steel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbide Insert Type</td>
<td>350</td>
<td>250</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>One-Piece Type</td>
<td>1800</td>
<td>500</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tenon/Plug Cutters</th>
<th>Soft Wood</th>
<th>Hard Wood</th>
<th>Plastic</th>
<th>Brass</th>
<th>Aluminum</th>
<th>Mild Steel</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8&quot; – 1/2&quot;</td>
<td>1200</td>
<td>1000</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5/8&quot; – 1&quot;</td>
<td>800</td>
<td>600</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Figure 26. Drill bit speed chart.
Changing Speeds

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

To change speeds:

1. DISCONNECT MACHINE FROM POWER!

2. Loosen belt-tension lock knobs (shown in Figure 27) on both sides of the headstock, so the motor is free to move.

3. Locate desired speed on the speed chart under the pulley cover, and move the V-belt to the desired pulley grooves.

4. Pivot the motor toward the back of the headstock and tighten the lock knobs once the desired V-belt tension is achieved.

5. Close the belt cover before connecting the machine to power.

Drilling

The Model G7945/G7946 is designed for drilling holes in wood, plastic, and 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 down feed levers 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:

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.

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

PROTECTING TABLE: Protect the table by placing the workpiece on scrap wood, or center the location of the hole to be drilled over the pocket in the table when through drilling. Also, make use of 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: Harder materials (steel vs. wood) require slower drilling speeds.

SOFT MATERIAL: Soft materials require a faster drilling speed. (NOTE: Plastics can melt at too high of a spindle speed!)

LUBRICANT: Use lubricant on all materials except wood and cast iron. Refer to Lubrication Suggestions on Page 26 to find the correct lubrication for your application.

⚠️ WARNING
Never operate drill press with pulley cover in the open position. You can get entangled in belt/pulleys and serious personal injury may occur.
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.

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 SAW: 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 drilling from the other side.

⚠️ CAUTION

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.

Installing/Removing Drill Bits

Any drill bit you install in the chuck must be tight enough that it will not come loose during operation.

Installing a Drill Bit

1. DISCONNECT MACHINE FROM POWER!

2. Open the drill chuck wide enough to accept the shank of the drill bit.

3. 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.

4. Final-tighten the drill bit with the chuck key.

Removing a Drill Bit

1. DISCONNECT MACHINE FROM POWER!

2. Use the chuck key to open the drill chuck, and catch the drill bit with a rag to protect your hands.
Adjusting Depth Stop

The Model G7945/G7946 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 hex 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 hex nut (jam nut) is then used to tighten against the depth nut to secure it in place so it doesn't move with repeated operations. Figure 28 shows the various components of the depth stop.

The return height nut, on the base of the stud, limits the downfeed handle return distance, which is set by how high the nut is placed on the stud. This feature is useful for repetitive drilling motions.

Note: The scale on the depth stop can be recalibrated if it gets moved or has changed since the factory setting. Refer to Depth Stop Calibration on Page 37 for instructions on how this is done.

Adjusting Table

The Model G7945 table can be adjusted for height and tilt. The G7946 table features the same types of adjustments but can also be rotated and adjusted for distance from the column.

Adjusting Table Height

1. Loosen the table bracket lock lever (see Figure 29). Turn the table crank to raise or lower the table.

2. Remember to lock the support bracket in place before operating the machine.

Setting Spindle Return Distance

1. Lower the drill bit.

2. Thread the return height nut up the stud to the desired height.
Adjusting Table Tilt
1. (G7946 Only): Turn the locating pin nut (see Figure 30) in a clockwise direction. This will draw the locating pin out of the casting. Once loose, pull out the pin and nut, and set them in a safe place until needed.

2. Loosen the lock bolt (Figure 31) using the included wrench and tilt the table (G7945) or the column support arm (G7946) to the desired angle.

3. Lock in place by tightening the lock bolt.

4. (G7946 Only): To return the table to its original position, align the holes in the column support arm and table bracket, insert the locating pin and nut, and gently tap the pin with a hammer.

5. Tighten the locating pin nut.

Adjusting Table Rotation
(G7946 Only)
1. Loosen the lock lever located under the table (see Figure 32). Rotate the table the desired amount.

2. Always lock the table support arm in place before operating the machine.

Adjusting Distance from Column
(G7946 Only)
1. Loosen the lock lever located at the pivoting elbow of the table support (see Figure 32).

2. Swing the table support to the desired distance from the column. The support bracket may need to be rotated around the column to keep the table centered under the chuck. Secure all lock levers before operating the machine.
Adjusting Headstock

The headstock can be tilted from 45° clockwise to 90° counterclockwise when the headstock lock pin is released.

The lock pin functions as a quick way to re-set the spindle 90° to the table after it has been tilted.

Tilting Headstock
1. Loosen the lock lever on the right side of the headstock (see Figure 33).

   ![Figure 33. Headstock lock lever and rotation scale.](image)

2. Pull out the lock pin located on the left side of the headstock and rotate the pin 90° as shown in Figure 34.

   ![Figure 34. Lock pin location.](image)

3. Tilt the headstock to the desired angle on the scale and tighten the lock lever on the right side of the headstock (see Figure 33).

Returning Head to Vertical Position
1. Loosen the lock lever located on the right side of the headstock (see Figure 33).

2. Move the lock pin back into the guide slot. (see Figure 34)

3. Return the headstock to the vertical position. The headstock lock pin should lock into place.

   Note: The lock pin is only intended to be a rough indexing tool.

4. For finer adjustments, align the zero mark on the headstock scale with the line on the horizontal column.

5. Tighten the lock lever.

Adjusting Headstock Forward/Backward
1. Loosen the lock lever located on the right side of the headstock (see Figure 35).

2. Turn the adjustment knob (see Figure 35) to move the headstock forward/backward to the desired position.

   ![Figure 35. Controls for forward/backward headstock travel.](image)

3. Tighten the lock lever.
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.

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.

Figure 36. Model G5753 Drill Press Vise 6”.

G8581—1⁄2” Keyless Drill Chuck JT33
Industrial-grade keyless chucks are excellent for quick bit changes. Knurled grips and exceptional accuracy make these chucks an indispensable part of any shop. Use on drill presses, lathe tailstocks and milling machines. 0 – 1⁄2” capacity with a Jacobs Taper #33 in back.

Figure 37. Model G8581 1⁄2” Keyless Drill Chuck.

G2500—20-Pc. Regular Sanding Drum Set
Use on your drill press, lathe, or hand drill. This kit consists of 5 drums in popular 1⁄2” x 1⁄2”, 3⁄4” 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 38. Model G2500 20-Pc. Regular Sanding Drum Set.

Basic Eye Protection
T20501—Face Shield Crown Protector 4”
T20502—Face Shield Crown Protector 7”
T20503—Face Shield Window
T20451—“Kirova” Clear Safety Glasses
T20452—“Kirova” Anti-Reflective S. Glasses
T20456—DAKURA Safety Glasses, Black/Clear

Figure 39. Assortment of basic eye protection.

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

Model G7945/G7946 (Mfd. Since 09/17)
H8203—Professional Drill Bit Sharpening Machine (For Bits 1/8"–1/2" in Diameter)
This precision made Drill Bit Sharpening Machine is so simple to use, anyone can sharpen dull, smaller bits in three easy steps. Just set the drill bit in the collet, grind the taper relief angle, then grind the web thinning angle to reduce the center point width. It features a depth adjustment gauge, tapered diamond wheel, 90°–140° angle setting adjustment, and built-in collet tray. Collet sizes include 1/8", 5/32", 3/16", 1/4", 9/32", 5/32", 9/32", 3/16", 7/32", 1/8", 15/32", and 1/2". Patented in the US!

D2139—Steelex® Cobalt Alloy Drill Bits 21-Pc.
D2140—Steelex® Cobalt Alloy Drill Bits 29-Pc.
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 for storing. D2139: 1/8"–3/8”; D2140: 1/8"–1/2”. See the Grizzly Catalog for more options.

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 40. Model H8203 Professional Drill Bit Sharpening Machine.

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.

D2784—Bi-Metal Hole Saw Set 10-Pc.
For the ultimate hole saw selection in one complete kit, this 10-pc. bi-metal hole saw set is tough to beat. Set includes 7/8", 1 1/8", 1 3/16", 1 1/4", 2", 2 1/2", 3", 3 5/8", 4 1/4" and 4 3/4" bi-metal hole saws, 1/2" x 20 UNF arbor, 5/8" x 18 UNF arbor, arbor adapter and high-impact plastic case.

Figure 42. Model D2140 29-Pc. Alloy Drill Bits.

Figure 43. Model D2784 Bi-Metal Hole Saw Set.

order online at www.grizzly.com or call 1-800-523-4777
SECTION 6: MAINTENANCE

General

For optimum performance from this machine, this maintenance schedule must be strictly followed.

Ongoing
To maintain a low risk of injury and proper machine operation, if you ever observe any of the items below, shut down the machine immediately and fix the problem before continuing operations:

- Loose mounting bolts.
- Worn switch.
- Worn or damaged wires.
- Damaged V-belts.
- Any other unsafe condition.

Monthly Check
- V-belt tension, damage, or wear.
- Clean/vacuum dust buildup off motor.

Cleaning & Protecting

Cleaning the Model G7945/G7946 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.

Protect the unpainted cast-iron table by wiping it clean after every use—this ensures moisture from wood dust does not remain on bare metal surfaces. Keep the table rust-free with regular applications of products like G96® Gun Treatment, SLIPIT®, or Boeshield® T-9 (see Page 33 for more details).

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 27 for more information about removing/installing belts if you need help replacing the belts.
**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

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Possible Cause</th>
<th>Possible Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Machine does not start or a breaker trips.</td>
<td>1. Switch disabling key removed or at fault.  &lt;br&gt; 2. Incorrect power supply voltage or circuit size.  &lt;br&gt; 3. Power supply circuit breaker tripped or fuse blown.  &lt;br&gt; 4. Motor wires connected incorrectly.  &lt;br&gt; 5. Wiring open/has high resistance.  &lt;br&gt; 6. Start capacitor at fault.  &lt;br&gt; 7. Centrifugal switch at fault.  &lt;br&gt; 8. Motor at fault.</td>
<td>1. Insert disabling key or replace.  &lt;br&gt; 2. Ensure correct power supply voltage and circuit size.  &lt;br&gt; 3. Ensure circuit is sized correctly and free of shorts. Reset circuit breaker or replace fuse.  &lt;br&gt; 4. Correct motor wiring connections (<a href="#">Page 39</a>).  &lt;br&gt; 5. Check/fix broken, disconnected, or corroded wires.  &lt;br&gt; 6. Test/replace.  &lt;br&gt; 7. Adjust/replace centrifugal switch if available.  &lt;br&gt; 8. Test/repair/replace.</td>
</tr>
<tr>
<td>Machine has vibration or noisy operation.</td>
<td>1. Motor or other drive component loose.  &lt;br&gt; 2. V-belt(s) worn or loose.  &lt;br&gt; 3. Motor fan rubbing on fan cover.  &lt;br&gt; 4. Pulley loose.  &lt;br&gt; 5. Motor mount loose/broken.  &lt;br&gt; 6. Motor or spindle bearings at fault.  &lt;br&gt; 7. Chuck unbalanced or cutter dull.</td>
<td>1. Inspect/replace damaged bolts/nuts, and retighten with thread locking fluid, if necessary.  &lt;br&gt; 2. Inspect/replace belts with a new matched set (<a href="#">Page 27</a>).  &lt;br&gt; 3. Fix/replace fan cover; replace loose/damaged fan.  &lt;br&gt; 4. Re-align/replace shaft, pulley set screw, and key.  &lt;br&gt; 5. Tighten/replace.  &lt;br&gt; 6. Test by rotating shaft; rotational grinding/loose shaft requires bearing replacement.  &lt;br&gt; 7. Replace chuck; replace/resharpen cutter.</td>
</tr>
</tbody>
</table>
## Drill Press Operations

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Possible Cause</th>
<th>Possible Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tool loose/lack of power in spindle.</td>
<td>1. Tool incorrectly installed in spindle taper.</td>
<td>1. Remove and re-install (<a href="#">Page 23</a>).</td>
</tr>
<tr>
<td></td>
<td>2. Debris on tool or spindle taper mating surfaces.</td>
<td>2. Clean tool and spindle taper.</td>
</tr>
<tr>
<td></td>
<td>3. Taking too big of a cut.</td>
<td>3. Lessen depth of cut and allow chips to clear (<a href="#">Page 27</a>).</td>
</tr>
<tr>
<td></td>
<td>4. V-belts are loose.</td>
<td>4. Properly tension V-belts (<a href="#">Page 27</a>).</td>
</tr>
<tr>
<td></td>
<td>5. Wrong voltage.</td>
<td>5. Correct voltage.</td>
</tr>
<tr>
<td>Workpiece or tool vibrates or chatters during operation.</td>
<td>1. Table locks not tight.</td>
<td>1. Tighten table lock levers (<a href="#">Page 29</a>).</td>
</tr>
<tr>
<td></td>
<td>2. Workpiece not secure.</td>
<td>2. Properly clamp workpiece on table or in vise.</td>
</tr>
<tr>
<td></td>
<td>3. Spindle speed/feed rate is too fast.</td>
<td>3. Set spindle speed correctly (<a href="#">Page 27</a>) or use slower feed rate.</td>
</tr>
<tr>
<td></td>
<td>4. Spindle or quill extended too far down.</td>
<td>4. Fully retract spindle and lower headstock. This increases rigidity to decrease vibration.</td>
</tr>
<tr>
<td>Headstock is hard to raise.</td>
<td>1. Headstock lock nuts at fault.</td>
<td>1. Loosen/replace lock nuts.</td>
</tr>
<tr>
<td></td>
<td>2. Rack and pinion at fault or jammed with grime/debris.</td>
<td>2. Fix/replace broken or loose parts; clean and lubricate rack and pinion.</td>
</tr>
<tr>
<td>Bad surface finish.</td>
<td>1. Spindle speed too fast for workpiece material.</td>
<td>1. Set spindle speed correctly (<a href="#">Page 27</a>).</td>
</tr>
<tr>
<td></td>
<td>2. Dull or incorrect cutting tool.</td>
<td>2. Sharpen cutting tool or select one that better suits the operation.</td>
</tr>
<tr>
<td></td>
<td>3. Wrong rotation direction of cutting tool.</td>
<td>3. Check for proper cutting tool rotation.</td>
</tr>
<tr>
<td></td>
<td>4. Workpiece not secure.</td>
<td>4. Properly clamp workpiece on table or in vise.</td>
</tr>
<tr>
<td></td>
<td>5. Spindle extended too far down during operation.</td>
<td>5. Fully retract spindle and lower headstock. This increases rigidity.</td>
</tr>
<tr>
<td>Spindle overheats.</td>
<td>1. Drill operated at high speeds for extended period.</td>
<td>1. Allow drill to cool.</td>
</tr>
<tr>
<td>Spindle does not return to highest position.</td>
<td>1. Poorly adjusted return spring.</td>
<td>1. Increase return spring tension (<a href="#">Page 37</a>).</td>
</tr>
<tr>
<td></td>
<td>2. Worn return spring.</td>
<td>2. Replace return spring.</td>
</tr>
<tr>
<td>Depth stop producing inaccurate results.</td>
<td>1. Depth stop not calibrated.</td>
<td>1. Calibrate depth stop (<a href="#">Page 37</a>).</td>
</tr>
</tbody>
</table>
Calibrating Depth Stop

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:

1. Loosen the return height nut and calibration nut shown in Figure 44.

2. Use the calibration nut to zero the depth stop scale with the stop bracket.

3. Hold the depth stop at zero, and tighten the return height nut to hold the depth stop in position.

4. Test the depth stop by measuring how far the spindle actually moves with respect to where you set the depth stop.

Tensioning Spindle Return Spring

The tension of the spindle return spring makes the spindle automatically return to the top (starting) position when the downfeed handle is released. This spring is pre-adjusted at the factory, and typically will never need further adjustment during the life of the drill press. However, additional tension can be applied if the spindle stops automatically returning to the top position.

**WARNING**

Wear safety glasses when adjusting springs. Serious injury may occur if this warning is ignored!

Items Needed

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Heavy Leather Gloves</td>
</tr>
<tr>
<td></td>
<td>Shop Rags</td>
</tr>
<tr>
<td></td>
<td>Open-End Wrench 24mm</td>
</tr>
</tbody>
</table>

To adjust the feed shaft spring tension:

1. DISCONNECT MACHINE FROM POWER!

2. 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 45).
3. While holding the spring lock cover against the side of the headstock so the cover stays splined with the locking lug, as shown in Figure 46, loosen the jam nut and loosen the cover nut approximately ¼" each.

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

5. Pull the cover outward just enough to disengage the spring-cover lock slot from the locking lug.

   **CAUTION:** It is important to keep a good grip during this step. Letting go of the cover will cause the spring to rapidly uncoil.

6. Rotate the cover counterclockwise to increase spring tension, or let the cover slowly unwind in the clockwise direction to reduce spring tension (see Figure 46).

7. Engage the next available spring-cover lock slot with the locking lug and hold the spring lock cover tightly against the side of the headstock.

8. Snug the cover nut against the spring cover just until the nut stops, and then back off the nut approximately ⅛ turn, or just enough so there is no binding at complete spindle travel.

9. Hold the cover nut and tighten the jam nut against the cover nut.

---

**Figure 46. Loosening cover and jam nut.**

---

**CAUTION**

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

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

COLOR KEY

BLACK  ➸  RED  ➸  GREEN  ➸  WHITE  ➸  BLUE  ➸  ORANGE  ➸  GRAY  ➸  BROWN

YELLOW  ➸  PINK  ➸  DARK  ➸  LIGHT  ➸  BLUE  ➸  WHITE  ➸  TURQUOISE

Model G7945/G7946 (Mfd. Since 09/17)
G7945/G7946 Wiring Diagram

Electrical Components

Figure 47. Power switch wiring.

Figure 48. Motor wiring.

WARNING!
SHOCK HAZARD! Disconnect power before working on wiring.

Motor

Start Capacitor 150µF 125VAC

Ground
Neutral
Hot
120 VAC 5-15 Plug

ON/OFF SWITCH
KEDU HY-56 125V 20A
(Machine Body)

Ground
To Motor
To Power

Power Switch

Capacitor

Motor

Ground
Neutral
Hot
120 VAC 5-15 Plug

Model G7945/G7946 (Mfd. Since 09/17)
## G7945/G7946 Main Parts List

<table>
<thead>
<tr>
<th>REF</th>
<th>PART #</th>
<th>DESCRIPTION</th>
<th>REF</th>
<th>PART #</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>P7945008</td>
<td>GEAR</td>
<td>48</td>
<td>P7945048</td>
<td>DOWNFEED HANDLE</td>
</tr>
<tr>
<td>9</td>
<td>P7945009</td>
<td>EXT RETAINING RING 9MM</td>
<td>49</td>
<td>P7945049</td>
<td>DEGREE SCALE</td>
</tr>
<tr>
<td>10</td>
<td>P7945010</td>
<td>HEX NUT M8-1.25</td>
<td>50</td>
<td>P7945050</td>
<td>EXT RETAINING RING 12MM</td>
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<tr>
<td>15</td>
<td>P7945015</td>
<td>KNOB BOLT M8-1.25 X 22</td>
<td>51</td>
<td>P7945051</td>
<td>BALL BEARING 6201</td>
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<tr>
<td>16A</td>
<td>P7945016A</td>
<td>MOUNT PLATE V2.06.06</td>
<td>52</td>
<td>P7945052</td>
<td>POWER CORD 3W 18G 72&quot; 5-15P</td>
</tr>
<tr>
<td>19B</td>
<td>P7945019B</td>
<td>MOTOR 1/2HP 120V 1-PH V2.03.07</td>
<td>53</td>
<td>P7945053</td>
<td>PULLEY SET NUT</td>
</tr>
<tr>
<td>19-1</td>
<td>P7945019-1</td>
<td>MOTOR MOUNT BRACKET V2.02.05</td>
<td>54</td>
<td>P7945054</td>
<td>PHLP HD SCR M6-1 X 10</td>
</tr>
<tr>
<td>19-2</td>
<td>P7945019-2</td>
<td>CAPACITOR 150 uF, 125VAC</td>
<td>55</td>
<td>P7945056</td>
<td>PHLP HD SCR M5-8 X 8</td>
</tr>
<tr>
<td>19-3</td>
<td>P7945019-3</td>
<td>MOTOR FAN</td>
<td>56</td>
<td>P7945058</td>
<td>KNOB BOLT M8-1.25 X 22</td>
</tr>
<tr>
<td>19-4</td>
<td>P7945019-4</td>
<td>FAN COVER</td>
<td>57</td>
<td>P7945059</td>
<td>SET SCREW M8-1.25 X 25</td>
</tr>
<tr>
<td>19-5</td>
<td>P7945019-5</td>
<td>PHLP HD SCR M4-.7 X 6</td>
<td>58</td>
<td>P7945060</td>
<td>HEX NUT M8-1.25</td>
</tr>
<tr>
<td>19-6</td>
<td>P7945019-6</td>
<td>CAPACITOR 150 uF, 125VAC</td>
<td>59</td>
<td>P7945062</td>
<td>LOGO</td>
</tr>
<tr>
<td>19-7</td>
<td>P7945019-7</td>
<td>FLAT WASHER 4MM</td>
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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.
## G7945 Column Parts List

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## G7946 Column Parts List

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### WARNING

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

**BUY PARTS ONLINE AT GRIZZLY.COM!**
Scan QR code to visit our Parts Store.

Model G7945/G7946 (Mfd. Since 09/17)
The following information is given on a voluntary basis. It will be used for marketing purposes to help us develop better products and services. Of course, all information is strictly confidential.

1. How did you learn about us?
   - Advertisement
   - Friend
   - Catalog
   - Card Deck
   - Website
   - Other:

2. Which of the following magazines do you subscribe to?
   - Cabinetmaker & FDM
   - Popular Science
   - Wooden Boat
   - Family Handyman
   - Popular Woodworking
   - Woodshop News
   - Hand Loader
   - Precision Shooter
   - Woodsmith
   - Handy
   - Projects in Metal
   - Woodwork
   - Home Shop Machinist
   - RC Modeler
   - Woodworker West
   - Journal of Light Cont.
   - Rifle
   - Woodworker's Journal
   - Live Steam
   - Shop Notes
   - Other:
   - Model Airplane News
   - Shotgun News
   - Popular Mechanics
   - Wood
   - Old House Journal
   - Today's Homeowner
   - Popular Science
   - Other:
   - Projects in Metal
   - Fire
   - Shop Notes
   - Other:
   - Model Airplane News
   - Shotgun News
   - Popular Mechanics
   - Popular Science
   - Other:
   - Projects in Metal
   - Fire
   - Shop Notes
   - Other:
   - Model Airplane News
   - Shotgun News
   - Popular Mechanics
   - Popular Science
   - Other:
   - Projects in Metal
   - Fire
   - Shop Notes
   - Other:

3. What is your annual household income?
   - $20,000-$29,000
   - $30,000-$39,000
   - $40,000-$49,000
   - $50,000-$59,000
   - $60,000-$69,000
   - $70,000+

4. What is your age group?
   - 20-29
   - 30-39
   - 40-49
   - 50-59
   - 60-69
   - 70+

5. How long have you been a woodworker/metalworker?
   - 0-2 Years
   - 2-8 Years
   - 8-20 Years
   - 20+ Years

6. How many of your machines or tools are Grizzly?
   - 0-2
   - 3-5
   - 6-9
   - 10+

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

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

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

10. Comments:
   ____________________________________________________________
   ____________________________________________________________
   ____________________________________________________________
   ____________________________________________________________
   ____________________________________________________________
Send a Grizzly Catalog to a friend:

Name_______________________________
Street________________________________
City______________State______Zip______

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

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

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

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

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

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