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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SECTION 1: SAFETY

⚠ WARNING

For Your Own Safety Read Instruction Manual Before Operating This Equipment

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.

⚠ 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 equipment.

⚠ WARNING

Safety Instructions For Power Tools

1. KEEP GUARDS IN PLACE and in working order.
2. REMOVE ADJUSTING KEYS AND WRENCHES. Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning on.
3. KEEP WORK AREA CLEAN. Cluttered areas and benches invite accidents.
4. DO NOT USE IN DANGEROUS ENVIRONMENT. Do not use power tools in damp or wet locations, or where any flammable or noxious fumes may exist. Keep work area well lighted.
5. KEEP CHILDREN AND VISITORS AWAY. All children and visitors should be kept a safe distance from work area.
6. MAKE WORKSHOP CHILD PROOF with padlocks, master switches, or by removing starter keys.
7. DO NOT FORCE TOOL. It will do the job better and safer at the rate for which it was designed.
8. USE RIGHT TOOL. Do not force tool or attachment to do a job for which it was not designed.
9. USE PROPER EXTENSION CORD. Make sure your extension cord is in good condition. Conductor size should be in accordance with the chart below. The amperage rating should be listed on the motor or tool nameplate. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. Your extension cord must also contain a ground wire and plug pin. Always repair or replace extension cords if they become damaged.

Minimum Gauge for Extension Cords

<table>
<thead>
<tr>
<th>AMP RATING</th>
<th>LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>25ft</td>
</tr>
<tr>
<td>0-6</td>
<td>18</td>
</tr>
<tr>
<td>7-10</td>
<td>18</td>
</tr>
<tr>
<td>11-12</td>
<td>16</td>
</tr>
<tr>
<td>13-16</td>
<td>14</td>
</tr>
<tr>
<td>17-20</td>
<td>12</td>
</tr>
<tr>
<td>21-30</td>
<td>10</td>
</tr>
</tbody>
</table>

10. WEAR PROPER APPAREL. Do not wear loose clothing, gloves, neckties, rings, bracelets, or other jewelry which may get caught in moving parts. Non-slip footwear is recommended. Wear protective hair covering to contain long hair.

11. ALWAYS USE SAFETY GLASSES. Also use face or dust mask if cutting operation is dusty. Everyday eyeglasses only have impact resistant lenses, they are NOT safety glasses.

12. SECURE WORK. Use clamps or a vise to hold work when practical. It's safer than using your hand and frees both hands to operate tool.

13. DO NOT OVERREACH. Keep proper footing and balance at all times.

14. MAINTAIN TOOLS WITH CARE. Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.

15. USE RECOMMENDED ACCESSORIES. Consult the owner's manual for recommended accessories. The use of improper accessories may cause risk of injury.

16. REDUCE THE RISK OF UNINTENTIONAL STARTING. On machines with magnetic contact starting switches there is a risk of starting if the machine is bumped or jarred. Always disconnect from power source before adjusting or servicing. Make sure switch is in OFF position before reconnecting.

17. MANY WOODWORKING TOOLS CAN "KICKBACK" THE WORKPIECE toward the operator if not handled properly. Know what conditions can create "kickback" and know how to avoid them. Read the manual accompanying the machine thoroughly.

18. CHECK DAMAGED PARTS. Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.

19. NEVER LEAVE TOOL RUNNING UNATTENDED. TURN POWER OFF. Do not leave tool until it comes to a complete stop.

20. NEVER OPERATE A MACHINE WHEN TIRED, OR UNDER THE INFLUENCE OF DRUGS OR ALCOHOL. Full mental alertness is required at all times when running a machine.

21. NEVER ALLOW UNSUPERVISED OR UNTRAINED PERSONNEL TO OPERATE THE MACHINE. Make sure any instructions you give in regards to machine operation are approved, correct, safe, and clearly understood.

22. IF AT ANY TIME YOU ARE EXPERIENCING DIFFICULTIES performing the intended operation, stop using the machine! Then contact our service department or ask a qualified expert how the operation should be performed.
1. **ALWAYS OPERATE YOUR DRILL PRESS AT SPEEDS** that are appropriate for the drill bit size and the material that you are drilling.

2. **FEED THE DRILL BIT EVENLY INTO THE WORKPIECE.** Back the bit out of deep holes and clear the chips with a brush after you have turned the machine off.

3. **MAKE SURE THE DRILL BIT YOU ARE USING IS TIGHTENED PROPERLY.** Use only round, hex or triangular shank drill bits.

4. **NEVER DO MAINTENANCE OR CHANGE SPEEDS WITH THIS MACHINE PLUGGED IN.**

5. **NEVER USE TOOLS THAT ARE IN POOR CONDITION.** Cutting tools that are dull or damaged are difficult to control and may cause serious injury.

6. **NEVER DRILL SHEET METAL UNLESS IT IS CLAMPED SECURELY TO THE TABLE.**

7. **WORK SHOULD BE POSITIONED IN SUCH A WAY AS TO AVOID DRILLING INTO THE TABLE.**

8. **A FACE SHIELD USED WITH SAFETY GLASSES IS RECOMMENDED.**

9. **ALWAYS CLAMP WORKPIECE SECURELY TO TABLE BEFORE DRILLING.** Never hold a workpiece by hand while drilling.

10. **IF AT ANY TIME YOU ARE EXPERIENCING DIFFICULTIES** performing the intended operation, stop using the machine! Then contact our service department or ask a qualified expert how the operation should be performed.

11. **REMOVE ADJUSTING KEYS AND WRENCHES.** Before turning the machine on, make it a habit to check that all adjusting keys and wrenches have been removed.

12. **HABITS—GOOD AND BAD—ARE HARD TO BREAK.** Develop good habits in your shop and safety will become second-nature to you.

---

**CAUTION**

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

110V Operation

The Model G7943/44 is wired for 110/120V, single phase operation only. The ¾ H.P. motor will safely draw 9 amps at 110V. If you operate this machine on any circuit that is already close to its capacity, it might blow a fuse or trip a circuit breaker. However, if an unusual load does not exist and a power failure still occurs, contact a qualified electrician or our service department.

A 15 amp dedicated circuit should be used with this drill press.

Extension Cords

If you find it necessary to use an extension cord with the Model G7943/44, make sure the cord is rated Hard Service (grade S) or better. Refer to the chart in the standard safety instructions to determine the minimum gauge for the extension cord. The extension cord must also contain a ground wire and plug pin. Always repair or replace extension cords when they become worn or damaged.

Grounding

In the event of an electrical short, grounding reduces the risk of electric shock by providing electric current a path of least resistance. This tool is equipped with a power cord having an equipment-grounding conductor. See Figure 1B. The outlet must be properly installed and grounded in accordance with all local codes and ordinances.

WARNING

This equipment must be grounded. Verify that any existing electrical outlet and circuit you intend to plug into is actually grounded. Under no circumstances should the grounding pin from any three-pronged plug be removed or serious injury may occur.
SECTION 3: INTRODUCTION

Commentary

We are proud to offer the Grizzly Model G7943/44 12 Speed Heavy-Duty Drill Press. The Model G7943/44 is part of a growing Grizzly family of fine woodworking machinery. When used according to the guidelines set forth in this manual, you can expect years of trouble-free, enjoyable operation and proof of Grizzly’s commitment to customer satisfaction.

The Model G7943 is a bench version and the G7944 is a floor version. The drill press has a 3/4 H.P., 1720 R.P.M. motor capable of producing a 3/4" hole in steel. There are 12 spindle speeds ranging from 140 to 3050 R.P.M. A work light, cast iron table, and 14" swing all make this a great drill press for most drilling applications.

A number of bits and attachments for the Model G7943/44 are available through the Grizzly catalog.

We are also pleased to provide this manual with the Model G7943/44. 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. If you have any comments regarding this manual, please write to us at the address below:

Grizzly Industrial, Inc.
C/O Technical Documentation
P.O. Box 2069
Bellingham, WA 98227-2069

Most importantly, 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.
2406 Reach Road
Williamsport, PA 17701
Phone: (570) 546-9663
Fax: (800) 438-5901
E-Mail: techsupport@grizzly.com
Web Site: http://www.grizzly.com

After fall 2001:
Grizzly Industrial, Inc.
1203 Lycoming Circle
Pennsdale, PA 17756

The specifications, drawings, and photographs illustrated in this manual represent the Model G7943/44 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. Whenever possible, though, we send manual updates to all owners of a particular tool or machine. Should you receive one, we urge you to insert the new information with the old and keep it for reference.

WARNING

Read the manual before assembly and operation. Become familiar with the machine and its operation before beginning any work. Serious personal injury may result if safety or operational information is not understood or followed.
Unpacking

The Model G7943/44 is shipped from the manufacturer in a carefully packed carton. If you discover the machine is damaged after you've signed for delivery, immediately call Customer Service for advice.

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

WARNING
If moving this machine up or down stairs, the machine must be dismantled and moved in smaller pieces. Make sure floor and stair structures are capable of supporting the combined weight of the machine parts and the people moving them.

CAUTION
The G7943/7944 represents a heavy load at 160/172 pounds. Seek assistance before beginning assembly.

Piece Inventory

After all the parts have been removed from the carton, you should have:

- Headstock
- Table Assembly
- Base
- Column Assembly
- Drill Chuck and Key
- Drift Key

- Allen® Wrenches (2)
- Hex Bolts, M10 x 25 or 40 (4)

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 2A. G7943 layout.

Figure 2B. G7944 layout.

NOTICE
A full parts list and breakdown can be found toward the end of this manual. For easier assembly, or to identify specific parts, please refer to the detailed illustrations at the end of the manual.
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. Avoid chlorine-based solvents as they may damage painted surfaces should they come in contact. Always follow the usage instructions on the product you choose for clean up.

WARNING
Do not use gasoline or other petroleum-based solvents. They have low flash points which make them extremely flammable. A risk of explosion and burning exists if these products are used. Serious personal injury may occur if this warning is ignored.

CAUTION
Many of the solvents commonly used to clean machinery can be toxic when inhaled or ingested. Always work in well-ventilated areas far from potential ignition sources when dealing with solvents. Use care when disposing of waste rags and towels to be sure they do not create fire or environmental hazards.

WARNING
Do not smoke while using solvents. A risk of explosion or fire exists and may result in serious personal injury.

Site Considerations

FLOOR LOAD

Your Model G7943/7944 represents a moderate weight load in a small footprint. Most commercial or home shop floors should be sufficient to carry the weight of the Model G7943/7944. If you question the strength of your floor, you can opt to reinforce it. Ensure that the stand or bench you use with the Model G7943 is capable of supporting the machine.

WORKING CLEARANCES

Working clearances can be thought of as the distances between machines and obstacles that allow safe operation of every machine without limitation. Consider existing and anticipated machine needs, size of material to be processed through each machine, and space for auxiliary stands and/or work tables. Also consider the relative position of each machine to one another for efficient material handling. Be sure to allow yourself sufficient room to safely run your machines in any foreseeable operation.

LIGHTING AND OUTLETS

Lighting should be bright enough to eliminate shadow and prevent eye strain. Electrical circuits should be dedicated or large enough to handle combined motor amp loads. Outlets should be located near each machine so power or extension cords are not obstructing high-traffic areas. Be sure to observe local electrical codes for proper installation of new lighting, outlets, or circuits.

CAUTION
Make your shop “child safe.” Ensure that your workplace is inaccessible to youngsters by closing and locking all entrances when you are away. Never allow visitors in your shop when assembling, adjusting or operating equipment.
SECTION 4: ASSEMBLY

Beginning Assembly

**WARNING**
Disconnect power to the machine when performing any maintenance, assembly or adjustments. Failure to do this may result in serious personal injury.

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

**WARNING**
Wear safety glasses during the entire assembly process. Failure to comply may result in serious personal injury.

Most of your G7943/44 Drill Press has been assembled at the factory, but some parts must be assembled or installed after delivery. We have organized the assembly process into steps. Please follow along in the order presented here.

**TOOLS REQUIRED:** 11⁄16" open end wrench, rubber or wooden mallet and (2) Allen® wrenches (supplied).

---

**Column/Base**

The G7944 is a floor model and must be secured to the floor using anchor bolts, or the base should be secured to a piece of plywood. The G7943 must be secured to a bench.

![Figure 3. Attaching plywood sub-base.](image)

1. Unplug machine before assembly.

2. **G7944**
Secure the base to the floor using the appropriate anchor bolts.

   or

Secure base to a piece of 4' x 4' x ¾" plywood. Using the holes in the base as a guide, drill and bolt the base to the back center of the plywood using carriage bolts as shown in Figure 3.

3. Place the column on the base and line up the mounting holes. Insert and tighten the M10-1.5 hex head bolts with a wrench.
Table Support

1. Thread the 12mm table lock handle 3 turns into the table support bracket as shown in Figure 4.

2. Insert the pinion gear into the hole on the side of the table support bracket from the inside, starting with the pinion shaft as shown in Figure 4. Align setscrew in crank handle with flat on pinion gear shaft and secure using the 3mm Allen® wrench provided as shown in Figure 5.

3. Examine the rack and note that the gear teeth extend farther on one end than the other. The end of the rack where the gear teeth are closest to the end should be positioned down. Insert the rack into the table support bracket and align it with the pocket as shown in Figure 5. The gear teeth on the rack must also face out.

4. Slide the table support bracket onto the column while holding the rack in place. Allow the bracket to go down until the bottom of the rack contacts the shoulder on the column support as shown in Figure 5. Secure the table support bracket with the lock handle.

5. Slide the column ring onto the column with the inside bevel in the down position as shown in Figure 6. Adjust the ring until the tip of the rack fits inside the bevel. Tighten the setscrew on the ring.

NOTICE

Use caution when tightening setscrew. Over tighten will split the column ring.
Headstock

**CAUTION**
The headstock represents a heavy load. Seek assistance before beginning this step.

1. There is a pocket in the bottom of the headstock for the column to be placed. Seek assistance to help position the headstock over the column. Allow the headstock to slide down until it stops (approximately 4”).

2. Position the headstock directly over the base by using a plumb bob. Use a measuring tape or ruler across the drill press base to find its center. Suspend the plumb line from the center of the headstock label and lower the bob until it is near the tape/ruler as shown in Figure 7. Adjust headstock from side to side until the tip is equidistant from both the left and right sides.

3. Tighten the two setscrews shown in Figure 8 to secure headstock to the column.

---

**Handles**

Three handles are supplied with the drill press. Thread them into the handle hub.

---

**Installing Light Bulb**

The Model G7943/44 has a light socket that utilizes standard sized 40 watt bulbs. Before installing a light bulb, unplug the drill press. Secure bulb in opening behind the spindle.

**WARNING**
Use only bulbs that are “safety coated” and shatter resistant. The bulb will be exposed at the bottom of the head casting which helps with illumination. Impacts with a bulb not “safety coated” may shatter, exposing the electrical filaments and creating an electrical shock hazard.
Drill Chuck and Arbor

The drill chuck attaches to the drill spindle by means of a drill chuck arbor. Matched tapers on the arbor and back of the chuck create an almost permanent assembly when properly joined. To assemble the drill chuck and mount it to the spindle, carefully follow the instructions below:

1. The drill chuck, arbor and spindle socket must be thoroughly cleaned and dried before assembly. It is recommended that mineral spirits be used for this task. Refer to the safety warnings on the container of the mineral spirits. Failure to clean the mating surfaces may result in separation and an unsafe condition. Separation is usually caused by oil or grease on the taper.

2. Use the provided chuck key to adjust the jaws of the chuck until they are well inside the drill chuck body.

3. Place the drill chuck on a workbench face down. 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 with a rubber or wooden mallet as shown in Figure 10. If the chuck fails to remain secure on the arbor, repeat step 1 and 2.

4. Slide the arbor into the spindle socket while slowly rotating drill chuck. The socket has a rectangular pocket in which the tang (or flat portion of the arbor) fits into. Once the tang is oriented correctly the drill chuck will not rotate without turning the spindle.

5. Tap the end of the drill chuck with a rubber or wooden mallet to seat it as shown in Figure 11.

**CAUTION**

DO NOT use a steel hammer on the drill chuck to seat it onto the spindle. Damage will occur to the chuck and/or spindle which may make them unusable or unsafe.

**Figure 9.** Chuck components identification.

**Figure 10.** Seating the arbor into chuck.

**Figure 11.** Seating arbor into spindle. (Note retracted jaws.)
Arbor Removal

A drift key is included to aid in the drill chuck arbor removal.

1. Rotate the spindle handles until the slot is exposed in the side of the quill.

2. Rotate the spindle until the inner slot is aligned with the outer as shown in Figure 12. You will see through the spindle when the slot is properly aligned.

3. Insert the drift key into the slot and allow the quill to rise, trapping the drift key. Hold the drill chuck with one hand and tap on the drift key with a hammer as shown in Figure 13.

Figure 12. Inner and outer slots aligned.

Figure 13. Using drift key to remove arbor.
SECTION 5: ADJUSTMENTS

Speed Changes

**WARNING**
Disconnect power to the machine when performing any maintenance, assembly or adjustments. Failure to do this may result in serious personal injury.

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

**WARNING**
Wear safety glasses during the entire adjustment process. Failure to comply may result in serious personal injury.

Unplug the drill press before changing speeds. The drill press has 12 speeds ranging from 140 to 3050 R.P.M. There is a speed chart located under the belt guard. Refer to the chart while reading these instructions.

1. Loosen the belt tension lock knobs on both sides of the headstock by turning counterclockwise as shown in Figure 14.

2. The motor should be free to move. Rotate the belt tension lever counterclockwise to take tension off the V-belts as shown in Figure 15.

3. Locate the desired speed on the chart and move the V-belts to the desired V-grooves on the motor, idler and spindle pulleys.

4. Rotate the belt tension lever until the belts are tight. Tighten both lock knobs.

5. Close the cover.

---

Figure 14. Loosening the lock knob.

Figure 15. Grasp the lever and turn.
**Depth Stop**

Your drill press comes with a depth stop adjustment for use when drilling.

1. Loosen the depth collar lock knob as shown in Figure 16.

2. Secure the wood stock you will be drilling onto the drill press table.

3. With the desired bit installed, lower the spindle until the tip of the bit just touches the wood stock you will be drilling. Hold the spindle in this position.

4. Turn the depth collar to the desired depth indicated by the scale on the collar. Secure the collar by tightening the lock knob.

5. Remove the wood stock and test the depth stop by measuring how far the spindle travels when the handles are rotated as shown in Figure 17.

---

You can also lock the spindle in the down position for operations such as spindle sanding.

1. Loosen the depth collar lock knob as shown in Figure 16.

2. Rotate the spindle to the desired depth and hold it steady.

3. Rotate the collar clockwise until it stops, and tighten the lock knob.

4. Slowly release the drill press handle. The spindle should not move.

---

**Figure 16.** Loosening collar lock knob.

**Figure 17.** Actual stop depth being measured.
Table Adjustment

The table can be adjusted for height, rotation and angle.

1. Loosen the support bracket lock knob. Turn the table hand crank to lift or lower the table as shown in Figure 18.

2. Always lock the support bracket in place before operating the machine.

Adjust rotation:

1. Loosen the lock handle located under the table as shown in Figure 19. Rotate the table the desired amount.

2. Always lock the table rotation in place before operating the machine.

Adjust angle:

1. Turn the nut indicated by the arrow in Figure 18, in a clockwise direction. This will draw the location pin out of the casting. Once loose, pull the pin and nut out, and set it in a safe place until needed.

2. Loosen the large bolt in the center of the support bracket.

3. Rotate the bracket to the desired angle. Use the scale on the side of the bracket or a protractor to set the angle. Lock in place by tightening the bolt.

When repositioning the table to 0˚ position, loosen the large bolt in the center of the support casting. Rotate the support casting until the degree scale reads 0˚. Carefully tap the location pin back into the hole from which it came until it stops. Unscrew the nut on the location pin until it is flush with the end of the threads. This will protect the threads when you tap it into place with a hammer. Turn the nut clockwise until it is snug against the casting and then tighten the large bolt in the center. The table is now set to the factory pre-set angle.

Figure 18. Locating pin and nut.

Figure 19. Unlock table for rotation.
SECTION 6: OPERATIONS

Test Run

Once assembly is complete and adjustments are done to your satisfaction, you are ready to test run the machine.

Turn on the power supply at the main panel. Flip the START button. Make sure that your finger is poised on the paddle switch, just in case there is a problem. The drill press should run smoothly, with little or no vibration or rubbing noises. Strange or unnatural noises should be investigated and corrected before operating the machine further.

If you cannot easily locate the source of an unusual noise or vibration, contact our service department for help.

Drill Bit Changes

Make sure to secure the bit firmly in place. When changing bits, proceed as follows:

1. Disconnect the machine from power source.
2. Open the chuck wide enough to accept a new bit.
3. Install the bit so the chuck jaws will grab as much of the bit shank as it can. Do not allow the chuck to grab the fluted body of the drill bit. Make sure small drill bits do not get trapped between the edges of two jaws.
4. Tighten the chuck with the chuck key using any of the three key end locations.
5. Remove the chuck key and reconnect power source.
6. Reverse steps to remove drill bit.
SECTION 7: MAINTENANCE

WARNING
Disconnect power to the machine when performing any maintenance, assembly or adjustments. Failure to do this may result in serious personal injury.

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

WARNING
Wear safety glasses during the entire maintenance process. Failure to comply may result in serious personal injury.

General

Regular periodic maintenance on your Model G7943/44 will ensure its 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:

1. Loose mounting bolts.
2. Worn switch.
3. Worn or damaged cords and plugs.
4. Damaged V-belt.
5. Any other condition that could hamper the safe operation of this machine.

WARNING
Disconnect power to the machine when performing any maintenance, assembly or adjustments. Failure to do this may result in serious personal injury.

Tables

The nonpainted surfaces on the Model G7943/44 should be protected against rust and pitting. Wiping the machine clean after every use ensures that wood dust will not trap moisture against bare metal surfaces.

Some woodworkers recommend using automotive paste wax on exposed steel and cast iron surfaces. The wax provides a layer of protection, as well as reducing friction between lumber and the table, making cuts faster and smoother. Avoid waxes that contain silicone or other synthetic ingredients. These materials can find their way into lumber that is being worked, and can make staining and finishing difficult. If you use paste wax, make sure that it is 100% Carnauba wax.

Lubrication

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

V-Belt

Inspect regularly for tension and wear. Check pulleys to ensure that they are properly aligned. See pulley/V-belt sections for proper tension and pulley alignment procedures.
SECTION 8: CLOSURE

The following pages contain general machine data, parts diagrams/lists, troubleshooting guide and Warranty/Return information for your Model G7943/44.

If you need parts or help in assembling your machine, or if you need operational information, we encourage you to call our Service Department. Our trained service technicians will be glad to help you.

If you have comments dealing specifically with this manual, please write to our Bellingham, Washington location using the address in Section 3 Introduction.

We have included some important safety measures that are essential to this machine’s operation. While most safety measures are generally universal, Grizzly reminds you that each workshop is different and safety rules should be considered as they apply to your specific situation.

We recommend you keep a copy of our current catalog for complete information regarding Grizzly’s warranty and return policy. If you need additional technical information relating to this machine, or if you need general assistance or replacement parts, please contact the Service Department listed in Section 3: General Information.

Additional information sources are necessary to realize the full potential of this machine. Trade journals, woodworking magazines, and your local library are good places to start.

 WARNING
The Model G7943/44 was specifically designed for drilling operations. DO NOT MODIFY AND/OR USE THIS MACHINE FOR ANY OTHER PURPOSE. Modifications or improper use of this tool will void the warranty. If you are confused about any aspect of this machine, DO NOT use it until you have answered all your questions or serious personal injury may occur.

 WARNING
Like all power tools, there is danger associated with the Model G7943/44. Accidents are frequently caused by lack of familiarity or failure to pay attention. Use this tool with respect and caution to lessen the possibility of operator injury. If normal safety precautions are overlooked or ignored, serious personal injury may occur.
MACHINE DATA SHEET

GRIZZLY MODEL G7943 12 SPEED DRILL PRESS

Design Type ................................................................................................................Bench Model

Overall Dimensions:
Table ................................................................................................................................11 3/8'' x 11 3/8''
Overall Height .................................................................................................................38''
Overall Width ..................................................................................................................14''
Overall Depth ..................................................................................................................24''
Column Diameter .........................................................................................................3.150''
Quill Diameter .............................................................................................................2.040''
Shipping Weight ...........................................................................................................160 lbs.
Box Size .........................................................................................................................32'' L x 20 1/2'' W x 11 1/2'' H
Footprint .........................................................................................................................18'' x 11''

Construction:
Table ............................................................................................................................Precision Ground Cast Iron
Column ..........................................................................................................................Cylindrical Ground Steel
Base & Head ................................................................................................................Cast Iron

Capacities:
Spindle Travel ..............................................................................................................3 1/4''
Max. Distance, Spindle to Base ...................................................................................23''
Max. Distance, Spindle to Table ...................................................................................16''
Spindle Taper ................................................................................................................MT #2
Swing ..............................................................................................................................14''
Chuck Size .....................................................................................................................5/8'' (16mm), keyed
Number of Speeds ......................................................................................................12, Belt Controlled
Speeds .........................................................................................................................140, 260, 320, 380, 480, 540, 980, 1160, 1510, 1650, 2180, 3050 R.P.M.
Drilling Capacity .............................................................................................................3/4'' Diameter in Steel

Motor:
Type ...............................................................................................................................TEFC Capacitor Start Induction
Horsepower ....................................................................................................................3/4 H.P.
Phase / Cycle ...............................................................................................................Single Phase / 60 Hz
Voltage ............................................................................................................................110V
Amps ...............................................................................................................................9
R.P.M. .............................................................................................................................1720
Power Transfer .............................................................................................................V-Belt Drive
Bearings .......................................................................................................................Shielded & Lubricated Ball Bearings
Switch ............................................................................................................................Toggle ON/OFF Switch, w/ Safety Lock Tab

Features:
Table ...........................................................................................................................360° Swivel Around Table Center, 360° Swivel Around Support Column
Tilt -90° to + 90°, Lock Levers, Coolant Trough
Vertical Table Movement .........................................................................................Crank Handle Operated Rack and Pinion
Illumination .................................................................................................................110 Volt Socket, Separately Switched
T-Slot .........................................................................................................................4 - 5/8'' x 3/4'', Accommodates 1/2'' Clamping Kit
Depth Gauge ...............................................................................................................On Feed Handle Hub, Inch Increments

Specifications, while deemed accurate, are not guaranteed.
GRIZZLY MODEL G7944 12 SPEED DRILL PRESS

Design Type .................................................................Floor Model

Overall Dimensions:
Table ........................................................................11\(\frac{3}{8}\)" x 11\(\frac{3}{8}\)"
Overall Height .............................................................64"
Overall Width ...............................................................14"
Overall Depth ..............................................................24"
Column Diameter ........................................................3.150"
Quill Diameter ............................................................2.040"
Shipping Weight .........................................................172 lbs.
Footprint ..................................................................18" x 11"

Construction:
Table ........................................................................Precision Ground Cast Iron
Column ........................................................................Cylindrical Ground Steel
Base & Head ...............................................................Cast Iron

Capacities:
Spindle Travel ............................................................3\(\frac{1}{4}\)"
Max. Distance, Spindle to Base ....................................49"
Max. Distance, Spindle to Table ..................................31\(\frac{1}{2}\)"
Spindle Taper ...............................................................MT #2
Swing ..........................................................................14"
Chuck Size .................................................................\(\frac{5}{8}\)" (16mm), keyed
Number of Speeds .....................................................12, Belt Controlled
Speeds .................140, 260, 320, 380, 480, 540, 980, 1160, 1510, 1650, 2180, 3050 R.P.M.
Drilling Capacity .........................................................\(\frac{3}{4}\)" Diameter in Steel

Motor:
Type .........................................................................TEFC Capacitor Start Induction
Horsepower ................................................................\(\frac{3}{4}\) H.P.
Phase / Cycle ..............................................................Single Phase / 60 Hz
Amps ..........................................................................9
Voltage .....................................................................110V
R.P.M. .......................................................................1720
Power Transfer ..........................................................V-Belt Drive
Bearings ....................................................................Shielded & Lubricated Ball Bearings
Switch .................................................................Toggle ON/OFF Switch, w/ Safety Lock Tab

Features:
Table ..........................................................360° Swivel Around Table Center, 360° Swivel Around Support Column
Tilt -90° to + 90°, Lock Levers, Coolant Trough
Vertical Table Movement ........................................Crank Handle Operated Rack and Pinion
Illumination ..............................................................110 Volt Socket, Separately Switched
T-Slot .............................................................4 - \(\frac{5}{8}\)" x 3\(\frac{3}{8}\)", Accommodates \(\frac{1}{2}\)" Clamping Kit
Depth Gauge ..................................................On Feed Handle Hub, Inch Increments

Specifications, while deemed accurate, are not guaranteed.
SPECIFICATIONS

MODEL G794

DRILL PRESS

MOTOR:

1/2 H.P., 110V, 1 PHASE

SPEED:

0-3000 R.P.M.

WORKING HEIGHT:

3 3/4"

DISTANCE BETWEEN CENTER:

40"

MAXIMUM WORK PIECE DIAMETER:

14"

WEIGHT WITH STANDARD:

70 LBS.

Date

Serial Number

Manufactured for Grizzly in Taiwan

UNIT EQUIPPED WITH LIGHTING FIXTURE

1. Always disconnect power before changing bulb.
2. Do not use bulb rated more than 60w.
3. Never leave light on when not in use.
4. Make sure socket plug (provided) is in place if bulb is not installed.
5. It takes at least five idiots to change the lightbulb on the G7943 drill press.
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Grizzly Industrial, Inc. warrants every product it sells for a period of 1 year to the original purchaser from the date of purchase. This warranty does not apply to defects due directly or indirectly to misuse, abuse, negligence, accidents, repairs or alterations or lack of maintenance. This is Grizzly’s sole written warranty and any and all warranties that may be implied by law, including any merchantability or fitness, for any particular purpose, are hereby limited to the duration of this written warranty. We do not warrant or represent that the merchandise complies with the provisions of any law or acts unless the manufacturer so warrants. In no event shall Grizzly’s liability under this warranty exceed the purchase price paid for the product and any legal actions brought against Grizzly shall be tried in the State of Washington, County of Whatcom.

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

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

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

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

Thank you again for your business and continued support. We hope to serve you again soon.
10. Which benchtop tools do you own? Check all that apply.
   ___1" x 42" Belt Sander
   ___6" - 8" Grinder
   ___5" - 8" Drill Press
   ___Mini Lathe
   ___8" Table Saw
   ___10" - 12" Thickness Planer
   ___Disc/Belt Sander
   ___Scroll Saw
   ___Spindle/Belt Sander
   ___Mini Jointer
   ___Other__________________________________________________

11. How many of the machines checked above are Grizzly? ____________

12. Which portable/hand held power tools do you own? Check all that apply.
   ___Belt Sander
   ___Orbital Sander
   ___Biscuit Joiner
   ___Palm Sander
   ___Circular Saw
   ___Portable Planer
   ___Detail Sander
   ___Saber Saw
   ___Drill/Driver
   ___Reciprocating Saw
   ___Miter Saw
   ___Router
   ___Other__________________________________________________

13. What machines/supplies would you like Grizzly Industrial to carry?
   __________________________________________________________
   __________________________________________________________
   __________________________________________________________

14. What new accessories would you like Grizzly Industrial to carry?
   __________________________________________________________
   __________________________________________________________
   __________________________________________________________

15. What other companies do you purchase your tools and supplies from?
   __________________________________________________________
   __________________________________________________________

16. Do you think your purchase represents good value?
   ___Yes ___No

17. Would you recommend Grizzly Industrial to a friend?
   ___Yes ___No

18. Would you allow us to use your name as a reference for Grizzly customers in your area? Note: We never use names more than three times.
   ___Yes ___No

19. Comments:_________________________________________________
    __________________________________________________________
    __________________________________________________________
    __________________________________________________________
G7943/44 12 Speed

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

Send a Grizzly Catalog to a friend:

Name________________________________________
Street________________________________________
City______________ State______ Zip__________