Owner's Manual & Safety Instructions

Save This Manual Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product's serial number in the back of the manual (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference.

22f

Bauer™

2229E-B

12" DRILL PRESS



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Email our technical support at: productsupport@harborfreight.com

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When unpacking, make sure that the product is intact and undamaged. If any parts are missing or broken, please call 1-888-866-5797 as soon as possible.

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Diagrams within this manual may not be drawn proportionally. Due to continuing improvements, actual product may differ slightly from the product described herein. Tools required for assembly and service may not be included.

⚠WARNING

Read this material before using this product. Failure to do so can result in serious injury. SAVE THIS MANUAL.

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SAFETY

SETUP

OPERATION

MAINTENANCE

WARNING SYMBOLS AND DEFINITIONS	
⚠	This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.
⚠DANGER	Indicates a hazardous situation which, if not avoided, will result in death or serious injury.
⚠WARNING	Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
⚠CAUTION	Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
NOTICE CAUTION	Addresses practices not related to personal injury.

IMPORTANT SAFETY INFORMATION

General Tool Safety Warnings

⚠WARNING

Read all safety warnings and instructions.
Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.
Save all warnings and instructions for future reference.

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 it on.
3. KEEP WORK AREA CLEAN. Cluttered areas and benches invite accidents.
4. DON'T USE IN DANGEROUS ENVIRONMENT. Don't use power tools in damp or wet locations, or expose them to rain. Keep work area well lighted.
5. KEEP CHILDREN AWAY. All visitors should be kept safe distance from work area.
6. MAKE WORKSHOP KID PROOF with padlocks, master switches, or by removing starter keys.
7. DON'T FORCE TOOL. It will do the job better and safer at the rate for which it was designed.
8. USE RIGHT TOOL. Don't force tool or attachment to do a job for which it was not designed.

Table A: RECOMMENDED MINIMUM WIRE GAUGE FOR EXTENSION CORDS (120 VOLT)

NAMEPLATE AMPERES (at full load)	EXTENSION CORD LENGTH			
	25′	50′	100′	150′
0 – 6	18	16	16	14
6.1 – 10	18	16	14	12
10.1 – 12	16	16	14	12
12.1 – 16	14	12	**Do not use.**	

9. USE PROPER EXTENSION CORD. Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. Table A shows the correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.

General Tool Safety Warnings (continued)

10. WEAR PROPER APPAREL. Do not wear loose clothing, gloves, neckties, rings, bracelets, or other jewelry which may get caught in moving parts. Nonslip 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 it frees both hands to operate tool.
13. DON'T 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. DISCONNECT TOOLS before servicing; when changing accessories, such as blades, bits, cutters, and the like.
16. REDUCE THE RISK OF UNINTENTIONAL STARTING. Make sure switch is in off position before plugging in.
17. USE RECOMMENDED ACCESSORIES. Consult the owner's manual for recommended accessories. The use of improper accessories may cause risk of injury to persons.
18. NEVER STAND ON TOOL. Serious injury could occur if the tool is tipped or if the cutting tool is unintentionally contacted.
19. 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.
20. DIRECTION OF FEED. Feed work into a blade or cutter against the direction of rotation of the blade or cutter only.
21. NEVER LEAVE TOOL RUNNING UNATTENDED. TURN POWER OFF. Don't leave tool until it comes to a complete stop.

Grounding Instructions



⚠WARNING

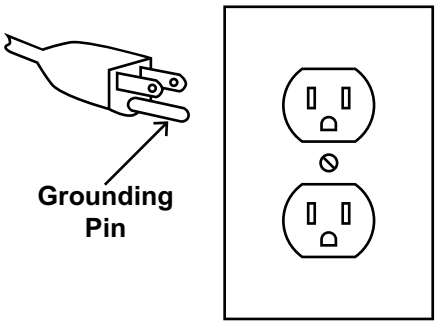
TO PREVENT ELECTRIC SHOCK AND DEATH FROM INCORRECT GROUNDING WIRE CONNECTION

READ AND FOLLOW THESE INSTRUCTIONS:

110-120 VAC Grounded Tools: Tools with Three Prong Plugs

1. In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This tool is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.
2. Do not modify the plug provided – if it will not fit the outlet, have the proper outlet installed by a qualified electrician.
3. Improper connection of the equipment-grounding conductor can result in a risk of electric shock. The conductor with insulation having an outer surface that is green with or without yellow stripes is the equipment-grounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal.
4. Check with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the tool is properly grounded.
5. Use only 3-wire extension cords that have 3-prong grounding plugs and 3-pole receptacles that accept the tool's plug.
6. Repair or replace damaged or worn cord immediately.

110-120 VAC Grounded Tools: Tools with Three Prong Plugs (cont.)



125 VAC 3-Prong Plug and Outlet
(for up to 125 VAC and up to 15 A)

7. This tool is intended for use on a circuit that has an outlet that looks like the one illustrated above in **125 VAC 3-Prong Plug and Outlet**. The tool has a grounding plug that looks like the plug illustrated above in **125 VAC 3-Prong Plug and Outlet**.
8. The outlet must be properly installed and grounded in accordance with all codes and ordinances.
9. Do not use an adapter to connect this tool to a different outlet.

Drill Press Safety Warnings

For Your Own Safety Read Instruction Manual Before Operating Drill Press

1. Wear eye protection.
2. Do not wear gloves, necktie, or loose clothing.
3. Clamp workpiece or brace against column to prevent rotation.
4. Use recommended speed for drill accessory and workpiece material.
5. The included chuck key is specially designed to be self-ejecting, reducing the risk of ejecting at high speed. Only use the included chuck key or an identical replacement key.
6. **DO NOT OPERATE WITH ANY GUARD DISABLED, DAMAGED, OR REMOVED. Moving guards must move freely and close instantly.**
7. The use of accessories or attachments not recommended by the manufacturer may result in a risk of injury to persons.
8. When servicing use only identical replacement parts.
9. Only use safety equipment that has been approved by an appropriate standards agency. Unapproved safety equipment may not provide adequate protection. Eye protection must be ANSI-approved and breathing protection must be NIOSH-approved for the specific hazards in the work area.
10. Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
11. Industrial applications must follow OSHA guidelines.
12. Maintain labels and nameplates on the tool. These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.
13. Avoid unintentional starting. Prepare to begin work before turning on the tool.
14. People with pacemakers should consult their physician(s) before use. Electromagnetic fields in close proximity to heart pacemaker could cause pacemaker interference or pacemaker failure.
15. The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

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Vibration Safety

This tool vibrates during use. Repeated or long-term exposure to vibration may cause temporary or permanent physical injury, particularly to the hands, arms and shoulders. To reduce the risk of vibration-related injury:

1. Anyone using vibrating tools regularly or for an extended period should first be examined by a doctor and then have regular medical check-ups to ensure medical problems are not being caused or worsened from use. Pregnant women or people who have impaired blood circulation to the hand, past hand injuries, nervous system disorders, diabetes, or Raynaud's Disease should not use this tool. If you feel any medical or physical symptoms related to vibration (such as tingling, numbness, and white or blue fingers), seek medical advice as soon as possible.
2. Do not smoke during use. Nicotine reduces the blood supply to the hands and fingers, increasing the risk of vibration-related injury.
3. Use tools with the lowest vibration when there is a choice between different processes.
4. Include vibration-free periods each day of work.
5. Grip tool as lightly as possible (while still keeping safe control of it). Let the tool do the work.
6. To reduce vibration, maintain the tool as explained in this manual. If any abnormal vibration occurs, stop use immediately.

SAVE THESE INSTRUCTIONS.

Specifications

Electrical Rating	120VAC / 60Hz / 6.2A
Spindle Speeds	Variable 580-3200 RPM
Throat Depth	6″ (12″ Swing)
Table Tilt	45º left and right
Table Swing Around Column	360°
Spindle Stroke	3-1/8″
Spindle Taper	MT2
Chuck Capacity	5/8″ (16mm)

Setup - Before Use

Read the ENTIRE IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

WARNING

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:
Turn the Power Switch of the tool off and unplug the tool from its electrical outlet before performing any procedure in this section.

Note: For additional information regarding the parts listed in the following pages, refer to the Assembly Diagram near the end of this manual.

Mounting

Secure the tool to a supporting structure before use. Before assembly, bolt the Base to a flat, level, solid workbench capable of supporting the weight of the drill press and any workpieces.

Verify that installation surface has no hidden utility lines before drilling or driving screws.

Assembly

Column to Base

1. Place Column Base (108) onto the Base (109) and align holes in the Column Base with holes in the Base.
2. Attach using Bolt (107) in each hole through the Column and into the Base.

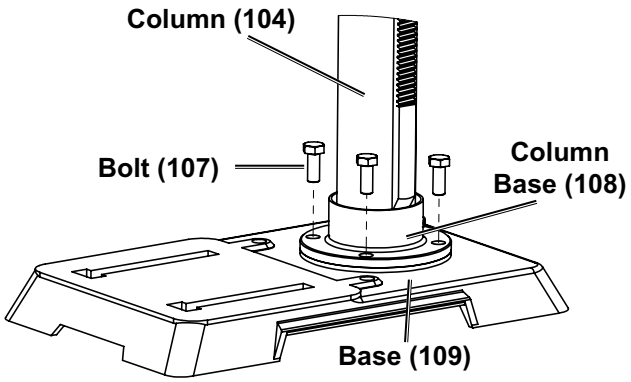
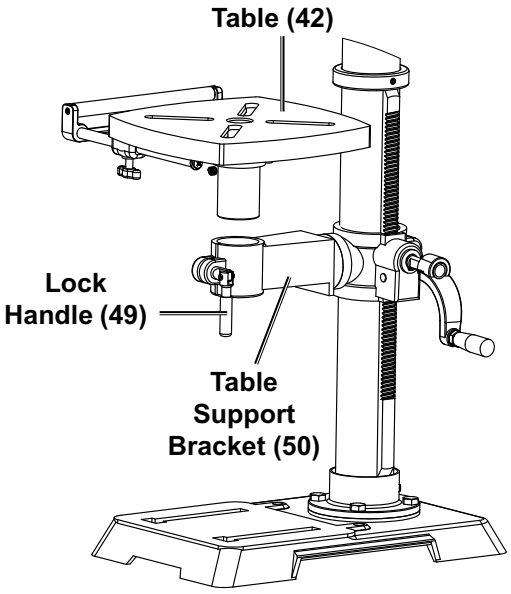


Table to Table Support

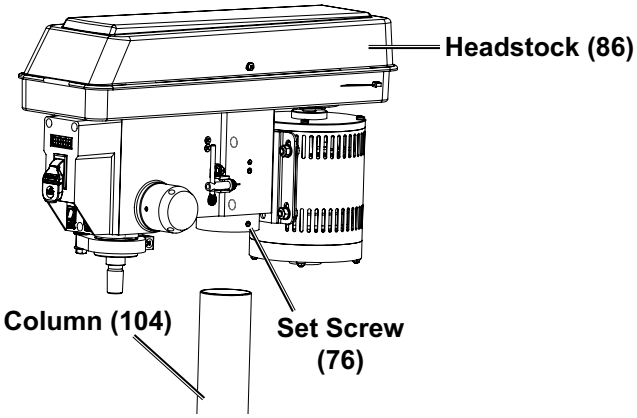
1. Thread the Lock Handle (49) into the opening in the Table Support bracket (50).
2. Lower the Table (42) into the Table Support bracket and tighten Lock Handle to secure.



Headstock to Column

1. With the help of an assistant, lift the Headstock (86) above the Column, and gently slide it down the Column as far as it will go.

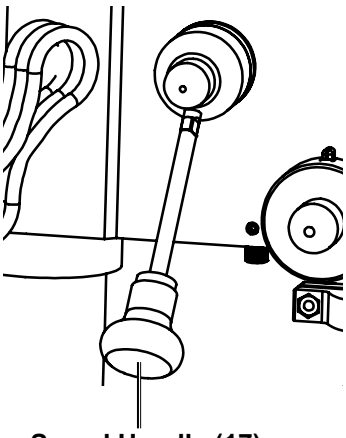
Note: Make sure Set Screw (76) is backed out enough to allow column insertion.



2. Align Headstock with Base.
3. Using a hex wrench, tighten Set Screw (76) to secure the Headstock in place.

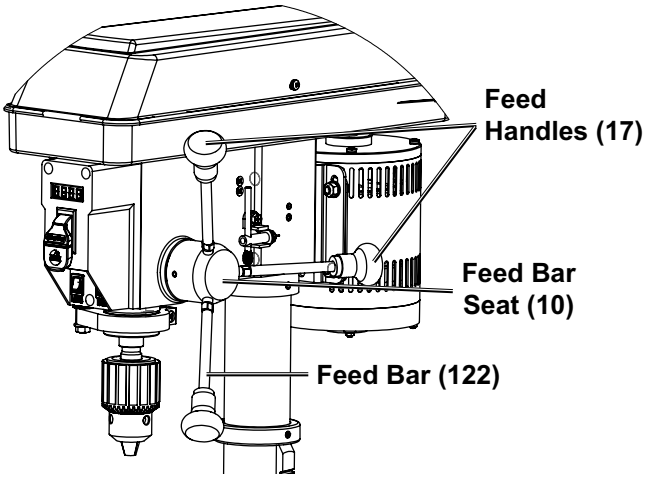
Installing Speed Handle

1. Install the Speed Handle (17) by threading handle into the opening on left side of the Drill Press.



Feed Handles/Bars

Thread the Feed Bars (122) into the Feed Bar Seat (10) and tighten them.



Installing/Removing the Chuck

1. Thoroughly clean the Arbor (64) and the tapered hole in the Chuck (65) of all dirt, grease, oil, and protective coatings. Make sure all parts are thoroughly clean, dry and burr free.
2. Insert the Arbor into the end of the Spindle (63). If necessary, rotate the Arbor to ensure that it is correctly positioned and fully inserted into the Spindle shaft. Firmly tap the Arbor nose with a rubber mallet.
3. Open the jaws of the Chuck to their maximum, using the supplied Chuck Key.
4. Slide the Chuck onto the Arbor nose as far as it will go.
5. Hold a piece of scrap wood against the Chuck nose to protect it and firmly tap the wood with a rubber mallet to ensure proper seating and a solid fit of the Chuck on the Spindle.
6. To remove the Chuck, use Feed Handles to lower Chuck until slots in Quill and Spindle are exposed. Rotate chuck until they align.
7. Adjust the lower Stop Nut all the way up to lock Spindle in place.
8. Slide Wedge (130) into the slot and tap it with a rubber mallet (not included) to release the Chuck and Arbor. **Make sure to hold Chuck with one hand to prevent it from falling.**

Read the ENTIRE IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

Tool Set Up

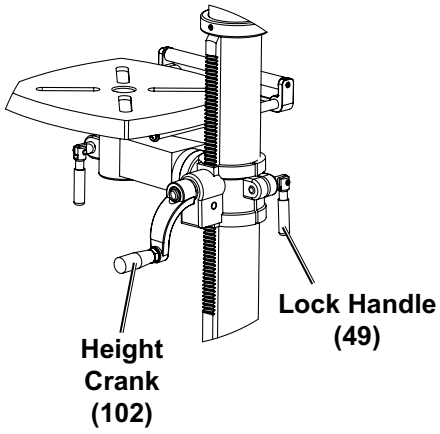
⚠WARNING

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:
Turn the Power Switch of the tool off and unplug the tool from its electrical outlet before performing any procedure in this section.

TO PREVENT SERIOUS INJURY:
DO NOT OPERATE WITH ANY GUARD DISABLED, DAMAGED, OR REMOVED.
Moving guards must move freely and close instantly.

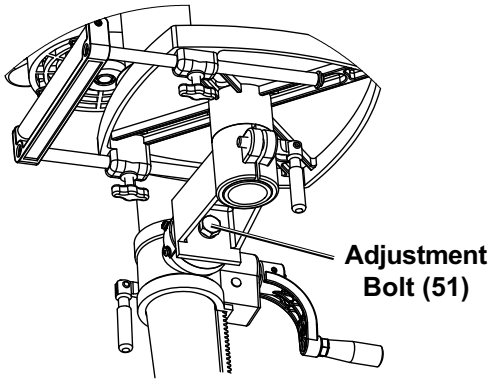
Table Adjustment

1. Raise or lower the Table by loosening the rear Lock Handle (49) and turning the Height Crank (102) clockwise to raise and counterclockwise to lower.



2. Pivot the Table (42) around the Column by loosening the Pivot Lever. The entire Table assembly and Rack will move as one around the Column.

3. Tilt the Table by loosening the Adjustment Bolt (51) and tilting to the required angle. The angle can be read using the Angle Scale (97).



4. TO ENSURE THAT THE DRILL IS ENTIRELY PERPENDICULAR TO THE TABLE, insert a straight round bar (not included) in the Chuck, place a square on the Table and bring it up to the round bar. Adjust the angle as needed.

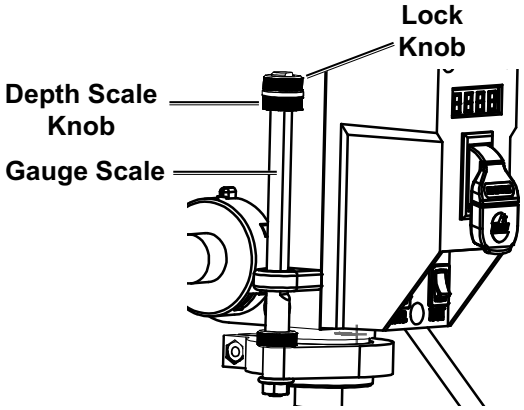
CAUTION! To prevent injury from unexpected Table movement, tighten rear Lock Handle (49) after adjustment.

Setting a Drilling Depth

Located against the Spindle Feed Shaft is a Depth Gauge with a scale. The Gauge may be locked in place by a Locking Knob.

1. Rotate the Depth Scale Knob until the bottom of the knob is aligned with the desired depth mark on the gauge scale.

2. Rotate the Lock Knob until it meets the Depth Scale Knob. The chuck will stop after travelling downward to the selected distance.



Changing Drill Speed

1. Consult the table below to determine the appropriate speed for the drill size being used.

Note: Drill press must be running during speed change.

2. To adjust drill speed, simply raise or lower the Speed Handle (17) until LED display shows desired RPM.

Note: If the Belt is too long to be properly tensioned, it must be replaced.

Speed Range (RPM)	WOOD Drill Bit Size		ALUMINUM/ZINC/BRASS Drill Bit Size		IRON/STEEL Drill Bit Size	
	IN	mm	IN	mm	IN	MM
2000 - 3500	3/8	9.5	7/32	5.6	3/32	2.4
1400 - 2000	5/8	16	11/32	8.75	5/32	4
1000 - 1400	7/8	22	15/32	12	1/4	6.4
800 - 1000	1-1/4	31.75	11/16	17.5	3/8	9.5
200 - 800	1-5/8	41.4	3/4	19	1/2	12.5

The table above shows drill speeds for various materials used by this Press.

Drill Bit Installation

1. Insert the drill bit into the jaws of the Chuck approximately 1″, ensuring that the jaws do not touch the flutes of the drill bit.
2. Before tightening the Chuck, ensure that the drill bit is centered within the jaws.
3. Tighten the Chuck securely with the included Chuck Key.

Workpiece and Work Area Set Up

1. Designate a work area that is clean and well-lit. The work area must not allow access by children or pets to prevent distraction and injury.
2. Route the power cord along a safe route to reach the work area without creating a tripping hazard or exposing the power cord to possible damage. The power cord must reach the work area with enough extra length to allow free movement while working.
3. Secure loose workpieces using a vise or clamps (not included) to prevent movement while working.
4. There must not be objects, such as utility lines, nearby that will present a hazard while working.
5. Make sure the table height and position is set so that the drill travel range is sufficient for the material to be drilled.
6. Make sure the work is securely clamped. That is, held in a drill vise, or bolted to the table. Never hold the material with your bare hands while drilling. Severe personal injury may be caused if the material is flung out of the operator's hand.
7. IF THE MATERIAL IS IRREGULARLY SHAPED and cannot be laid flat on the table, it should be securely blocked and clamped. Any tilting, twisting or shifting will result not only in a roughly drilled hole but also increases the chances of damage to the drill.
8. FOR FLAT WORK, lay the piece on to a wooden base and clamp it down firmly against the table to prevent it from turning.
9. FOR SMALL MATERIALS that cannot be clamped to the table, use a drill press vise. Make sure the vise is clamped or bolted to the table.
10. WHEN DRILLING COMPLETELY THROUGH WOOD, position a piece of scrap wood between the material and the table to prevent splintering on the underside of the material as the drill breaks through. The scrap piece of wood must make contact with the left side of the column. Securely clamp the other end of the scrap wood to the table. Also, set the depth of the drill so that the drill will not come in contact with the table - or align the table so that the hole in its center is in line with the drill bit.

General Operating Instructions

1. Bring the drill bit down with the Feed Knob to where the hole is to be drilled.
   Make minor workpiece alignment adjustments.
2. Plug the Power Cord into an electrical outlet.
3. Turn the Drill Press on.
4. Move speed lever to appropriate setting (see table on page 9).
5. Pull down on the Feed Knob and slowly drill the hole into the workpiece.
6. Turn Drill Press off by flipping Power Switch down.
7. To lock Drill Press in the OFF position, remove the safety key from Power Switch and store key in a safe place until next use.

WARNING! TO PREVENT SERIOUS INJURY: If the drill bit grabs and spins the workpiece, do not attempt to stop the spinning with your hands. Step back, and turn the drill press off. Wait for the spindle to stop turning before dislodging the workpiece.

8. To prevent accidents, turn off the tool and disconnect its power supply after use. Clean, then store the tool indoors out of children's reach.

Procedures not specifically explained in this manual must be performed only by a qualified technician.

⚠WARNING

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:
Turn the Power Switch of the tool off and unplug the tool from its electrical outlet before performing any procedure in this section.

TO PREVENT SERIOUS INJURY FROM TOOL FAILURE:
Do not use damaged equipment. If abnormal noise or vibration occurs, have the problem corrected before further use.

Cleaning, Maintenance, and Lubrication

1. **BEFORE EACH USE,** inspect the general condition of the tool. Check for:
   - loose hardware
   - misalignment or binding of moving parts
   - cracked or broken parts
   - damaged electrical wiring
   - any other condition that may affect its safe operation.
2. **AFTER USE,** wipe external surfaces of the tool with clean cloth.
3. **⚠WARNING! TO PREVENT SERIOUS INJURY: If the supply cord of this power tool is damaged, it must be replaced only by a qualified service technician.**

Belt Inspection and Tensioning

1. Examine belt for cracks, tears in the backing, and other damage.
2. Replace belt if damaged.

Troubleshooting

Problem	Possible Causes	Likely Solutions
Tool will not start.	1. Cord not connected.	1. Check that cord is plugged in.
	2. No power at outlet.	2. Check power at outlet. If outlet is unpowered, turn off tool and check circuit breaker. If breaker is tripped, make sure circuit is right capacity for tool and circuit has no other loads.
	3. Tool's thermal reset breaker tripped (if equipped).	3. Turn off tool and allow to cool. Press reset button on tool.
	4. Internal damage or wear. (Carbon brushes or switch, for example.)	4. Have technician service tool.
Tool operates slowly.	Extension cord too long or wire size too small.	Eliminate use of extension cord. If an extension cord is needed, use one with the proper diameter for its length and load. See **Table A** on page 2.
Performance decreases over time.	1. Accessory dull or damaged.	1. Keep cutting accessories sharp. Replace as needed.
	2. Carbon brushes worn or damaged.	2. Have qualified technician replace brushes.
Excessive noise or rattling.	1. Internal damage or wear. (Carbon brushes or bearings, for example.)	1. Have technician service tool.
	2. Belt (if equipped) too loose (slipping) or too tight (bearing damage).	2. Properly tension belt.
Overheating.	1. Forcing machine to work too fast.	1. Allow machine to work at its own rate.
	2. Accessory dull or damaged.	2. Keep cutting accessories sharp. Replace as needed.
	3. Blocked motor housing vents.	3. Wear ANSI-approved safety goggles and NIOSH-approved dust mask/respirator while blowing dust out of motor using compressed air.
	4. Motor being strained by long or small diameter extension cord.	4. Eliminate use of extension cord. If an extension cord is needed, use one with the proper diameter for its length and load. See **Table A** on page 2.

Follow all safety precautions whenever diagnosing or servicing the tool. Disconnect power supply before service.

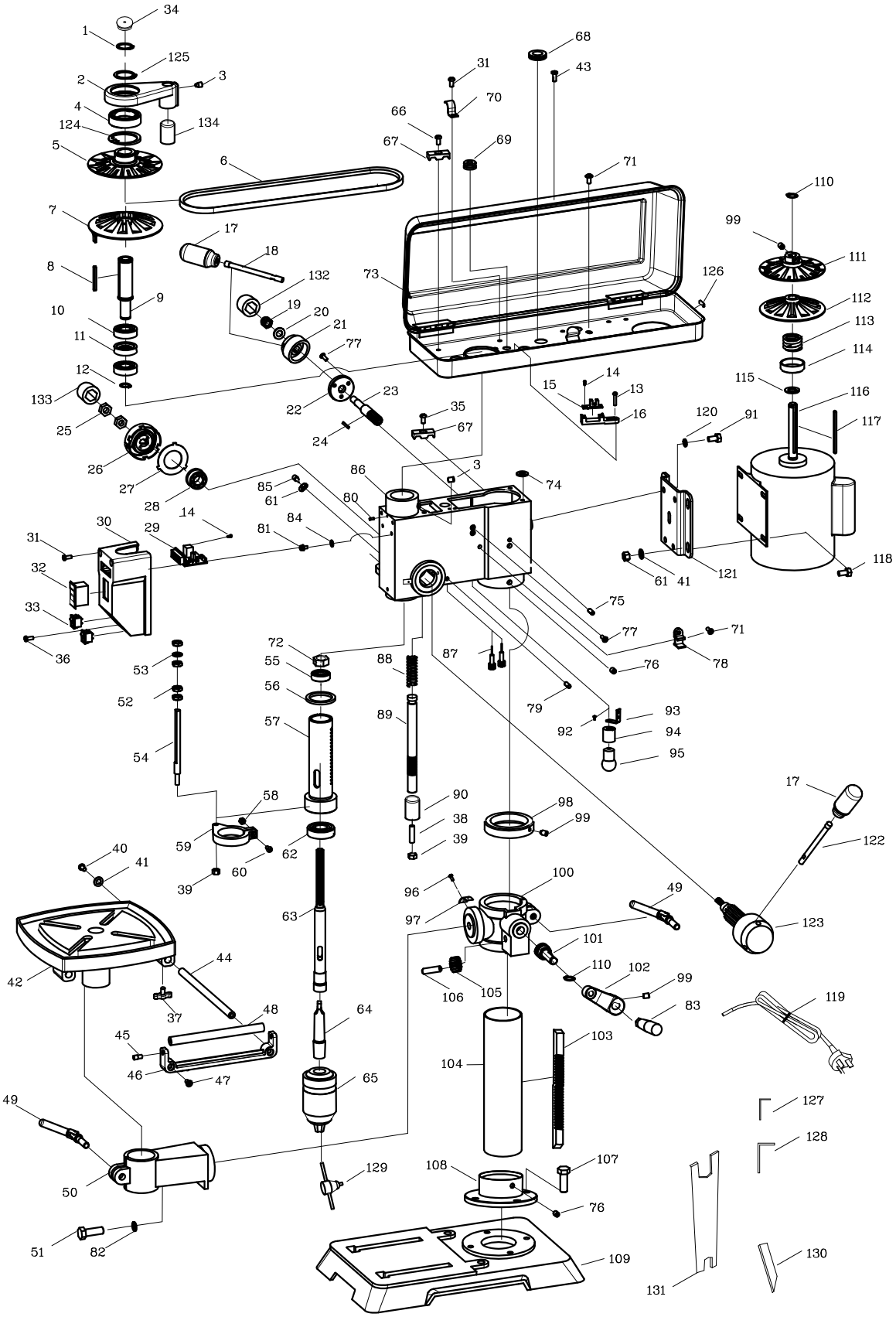
PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT, OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

Parts List

Part	Description	Qty
1	Shaft Circlip	1
2	Adjustable Base	1
3	Bolt	2
4	Bearing	1
5	Movable Pulley	1
6	Belt	1
7	Fixed Pulley	1
8	Flat Key	1
9	Driving Sleeve	1
10	Sealed Bearing	2
11	Retainer	1
12	Shaft Circlip	1
13	Screw	2
14	Screw	4
15	Counter	1
16	Counter Base	1
17	Speed Handle	4
18	Speed Handle Bar	1
19	Locking Nut	1
20	Butterfly Spring	1
21	Speed Knob Base	1
22	Gear Base	1
23	Gear Shaft	1
24	Flat Key	1
25	Nut	2
26	Spring Cover	1
27	Plate	1
28	Bush	1
29	Readout Transformer	1
30	Switch Box	1
31	Screw	4
32	Power Switch	1
33	Switch	2
34	Oil Cap	1
35	Screw	1
36	Screw	1
37	Knob	2
38	Hex Socket Screw	1
39	Nut With Flange	2
40	Screw	2
41	Flat Washer	6
42	Table	1
43	Inner Hex Wrench	1
44	Guide Pole	2
45	Roller Screw	2
46	Support Extension	1
47	Screw	2
48	Roller	1
49	Lock Handle	2
50	Table Support Bracket	1
51	Adjustment Bolt	1
52	Adjustable Nut	4
53	Special Washer	1
54	Depth	1
55	Sealing Bearing	1
56	Rubber Washer	1
57	Quill	1
58	Nut	1
59	Depth Base	1
60	Screw	1
61	Nut	5
62	Sealing Bearing	1
63	Spindle	1
64	Arbor	1
65	Chuck	1
66	Screw	1
67	Cord Plate	2
68	Rubber Bush	2
69	Cord Bush	1
70	Wire Plate	2
71	Screw With Flange	5
72	Nut	1
73	Pulley Cover	1
74	Sponge	4
75	Spring Column Pin	2
76	Hex Screw	3
77	Screw	5
78	Key Holder	1
79	Hex Socket Screw	2
80	Spring Column Pin	1
81	Screw	2
82	Spring Washer	1
83	Handle Shank	1
84	Star Washer	2
85	Quill Screw	1
86	Headstock	1
87	Laser	2
88	Spring	1
89	Rack Shaft	1
90	Rack Sleeve	1
91	Hex Bolt	3
92	Screw	1
93	Lamp Support	1
94	Lamp Socket	1
95	LED Lamp	1
96	Screw	2
97	Angle Scale	1
98	Collar	1
99	Set Screw	4
100	Table Support	1
101	Worm Gear	1
102	Height Crank	1
103	Rack	1
104	Column	1
105	Inner Gear	1
106	Inner Shaft	1
107	Hex Bolt	4
108	Column Base	1
109	Base	1
110	Spring Retainer	2
111	Moveable Pulley	1
112	Motor Fixed Pulley	1
113	Motor Spring	1
114	Spring Base	1
115	Spring Washer	1
116	Motor	1
117	Flat Key Type A	1
118	Hex Flange Screw	4
119	Power Cord	1
120	Spring Washer	3
121	Motor Plate	1
122	Feed Bar	3
123	Feed Bar Seat	1
124	Circlip For Hole	1
125	Shaft Spring Retainer	1
126	Strip	4
127	Hex Wrench	1
128	Hex Wrench	1
129	Chuck Key	1
130	Wedge	1
131	Folk Wrench	1
132	Gear Shaft Sleeve	1
133	Shaft Sleeve	1
134	Speed Limit Sleeve	1

Assembly Diagram



Record Product's Serial Number Here:_____

Note: If product has no serial number, record month and year of purchase instead.

Note: Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts. Specify UPC 193175446541 when ordering parts.

Limited 90 Day Warranty

Harbor Freight Tools Co. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 90 days from the date of purchase. This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance. 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 product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

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