



8 IN. DRILL PRESS

Operator's Manual

SAVE THIS MANUAL

You will need this manual for safety instructions, operating procedures and warranty.

Put it and the original sales receipt in a safe dry place for future reference.

For questions about this product, please call 1-866-915-8626.

IMPORTANT SAFETY INSTRUCTION

WARNING: When using electric tools, machines or equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and personal injury.



READ ALL INSTRUCTIONS BEFORE USING THIS TOOL

- 1. KEEP WORK AREA CLEAN.** Cluttered areas invite injuries.
- 2. CONSIDER WORK AREA ENVIRONMENT.** Don't use power tools in damp, wet, or poorly lit locations. Don't expose your tool to rain. Keep the work area well lit. Don't use tools in the presence of flammable gases or liquids.
- 3. KEEP CHILDREN AND BYSTANDERS AWAY.** All children should be kept away from the work area. Don't let them handle machines, tools or extension cords. Visitors can be a distraction and are difficult to protect from injury.
- 4. GROUNDED TOOLS** must be plugged into an outlet that itself is properly installed and grounded. Grounding provides a low-resistance path to carry electricity to ground away from the operator, should the tool malfunction electrically. Do not remove the grounding prong from the plug or alter the plug in any way. If in doubt as to whether the outlet is properly grounded according to code, check with a qualified electrician.
- 5. OBSERVE PROPER PRECAUTIONS REGARDING GROUNDED PLUG.** Plug power cord into a 110-120V properly grounded type outlet protected by a 12 amp time delay, a circuit saver fuse or circuit breaker.
- 6. GUARD AGAINST ELECTRIC SHOCK.** Prevent body contact with grounded surfaces: pipes, radiators, ranges, and refrigerator enclosures. When your body is grounded the risk of electric shock increases. When working wherever "live" electrical wires may be encountered, try to ascertain whether there is a danger of shock. Even so, **DO NOT TOUCH ANY METAL PARTS OF THE TOOL** while using it.
- 7. HANDLE THE CORD CAREFULLY.** Never pull on the cord to unplug this tool. Protect the cord from potential sources of damage: heat, oil & solvents, sharp edges, or moving parts. Replace damaged cords immediately.
- 8. WHEN WORKING OUTDOORS, USE AN OUTDOOR-RATED EXTENSION CORD.** An extension cord rated for outdoor use must be marked "W-A" or "W".
- 9. DO NOT EXPOSE ELECTRICAL POWER TOOLS TO MOISTURE.** Rain or wet conditions can cause water to enter the tool and lead to electric shock.
- 10. ENSURE THE EXTENSION CORD YOU USE IS OF SUFFICIENT GAUGE FOR ITS LENGTH.**

Recommended Minimum Wire Gauge for Extension Cords

Amps from Tool Nameplate	25'(7 m) length	50'(15 m) length	75'(23 m) length	100'(30 m) length	150'(46 m) length	200'(61 m) length
0-5 amps	16 ga.	16 ga.	16 ga.	14 ga.	12 ga.	12 ga.
5.1-8 amps	16 ga.	16 ga.	14 ga.	12 ga.	10 ga.	Do Not Use
8.1-12 amps	14 ga.	14 ga.	16 ga.	10 ga.	Do Not Use	Do Not Use
12.1-15 amps	12 ga.	12 ga.	10 ga.	10 ga.	Do Not Use	Do Not Use
15.1-20 amps	10 ga.	10 ga.	10 ga.	Do Not Use	Do Not Use	Do Not Use

- 11. STORE IDLE EQUIPMENT.** Store equipment in a dry area to inhibit rust. Equipment also should be in a high location or locked up to keep out of reach of children.
- 12. DON'T FORCE THE TOOL.** It will do the job better and more safely at the rate for which it was intended.
- 13. USE THE RIGHT TOOL.** Don't force a small tool or attachment to do the work of a larger industrial tool. Don't use a tool for a purpose for which it was not intended.



IMPORTANT SAFETY INSTRUCTION



14. **DRESS PROPERLY.** Don't wear loose clothing or jewelry; they can be caught in moving parts. Protective, non-electrically conductive gloves and non-skid footwear are recommended when working. Wear protective hair covering to contain long hair and keep it from harm.
15. **USE EYE PROTECTION.** Use a full-face mask if the work you're doing produces metal filings, dust or wood chips. Goggles are acceptable in other situations. Wear a clean dust mask if the work involves creating a lot of fine or coarse dust.
16. **SECURE WORK.** Use clamps or a vise to hold the work. It's safer than using your hands and it frees both hands to operate the tool.
17. **DON'T OVERREACH.** Keep proper footing and balance at all times. Do not reach over or across tools that are running.
18. **MAINTAIN TOOLS WITH CARE.** Keep tools sharp and clean for better and safer performance. Follow instructions for lubricating and safe performance. Follow instructions for lubricating and changing accessories. Keep handles dry, clean and free from oil and grease.
19. **AVOID UNINTENTIONAL STARTING.** Be sure the switch is in the **OFF** position before plugging in.
20. **ALWAYS CHECK AND MAKE SURE TO REMOVE ANY ADJUSTING KEYS OR WRENCHES** before turning the tool on. Left attached, these parts can fly off a rotating part and result in personal injury.
21. **DO NOT USE THE TOOL IF IT CANNOT BE SWITCHED ON OR OFF.** Have your tool repaired before using it.
22. **DISCONNECT THE PLUG FROM POWER BEFORE MAKING ANY ADJUSTMENTS.** Changing attachments or accessories can be dangerous if the tool could accidentally start.
23. **STAY ALERT.** Watch what you are doing & use common sense. Don't operate any tool when you are tired.
24. **CHECK FOR DAMAGED PARTS.** Before using this tool, any 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, mountings, and other conditions that may affect its operation. Inspect screws and tighten any ones that are loose. Any part that is damaged should be properly repaired or replaced by an authorized service center unless otherwise indicated elsewhere in the instruction manual. Have defective switches replaced by an authorized service center. Don't use the tool if switch does not turn it on and off properly.
25. **REPLACEMENT PARTS.** When servicing, use only identical replacement parts.
26. **SERVICE AND REPAIRS** should be made by qualified repair technicians at an authorized repair center. Improperly repaired tools could cause serious shock or injury.

SAFETY PRECAUTIONS FOR DRILL PRESS



WARNING: Do not operate your drill press until it is completely assembled and installed according to the instructions.

1. Never turn on the drill press before clearing the table of all objects (tools, scraps, etc.).
2. Always keep hands and fingers away from the drill bit.
3. Do not drill material that does not have a flat surface, unless a suitable support is used.
4. Never start the drill press with the drill bit pressed against the workpiece.
5. Make sure the table lock is tightened before starting the machine.

SAFETY PRECAUTIONS FOR DRILL PRESS

6. Never perform layout, assembly, or set-up work on the table while the drill is in use.
7. Make sure drill bit is securely locked in the chuck.
8. Make sure chuck key is removed from the chuck before turning power on.
9. Adjust the table or depth stop to avoid drilling into the table.
10. Always stop the drill before removing scrap pieces from the table.
11. Use clamps or a vise to secure workpiece to the table. This will prevent workpiece from rotating with the drill bit.
12. Do not wear gloves when operating a drill press.
13. Shut the power off, remove the drill bit, and clean the table before leaving the drill press.
14. Set the drill press to the speed appropriate for the job.
15. Should any part of your drill press be missing, damaged, or any electrical component fail to perform properly, shut power off and unplug the drill press. Replace missing, damaged, or failed parts before resuming operation.



Protect Your Eyes

The operation of any power tool can result in foreign objects being thrown into the eyes, which can result in severe eye damage. Always wear eye protection during operation of the tool.

Electricity Requirements

CONNECTING THE TOOL TO A POWER SOURCE OUTLET

This machine source must be grounded while in use to protect the operator from electric shock. In case of malfunction or breakdown, grounding provides a path of least resistance for electrical current to reduce the risk of electrical shock. This tool is equipped with an electric cord having an equipment grounding conductor outlet that is properly installed and grounded in accordance with all local codes and ordinances.

Improper connections of the equipment-grounding conductor can result in a risk of electrical shock. The conductor with insulation having an outer surface that is green (with or without yellow strips) 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.

Plug power cord into a 120V properly grounded type outlet protected by a 3.0A time delay, a circuit saver fuse or circuit breaker.

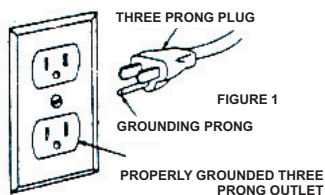
WARNING - Do not let your fingers touch the terminals of the plug when installing or removing the plug to or away from the outlet.



WARNING - If not properly grounded, this tool can incur the potential hazard of electrical shock particularly when used in damp locations or in proximity to plumbing. If an electrical shock occurs, there is the potential of a secondary hazard like your hands contacting the tool.



This tool is intended for use on a circuit that has an outlet that looks like the one in Figure 1.



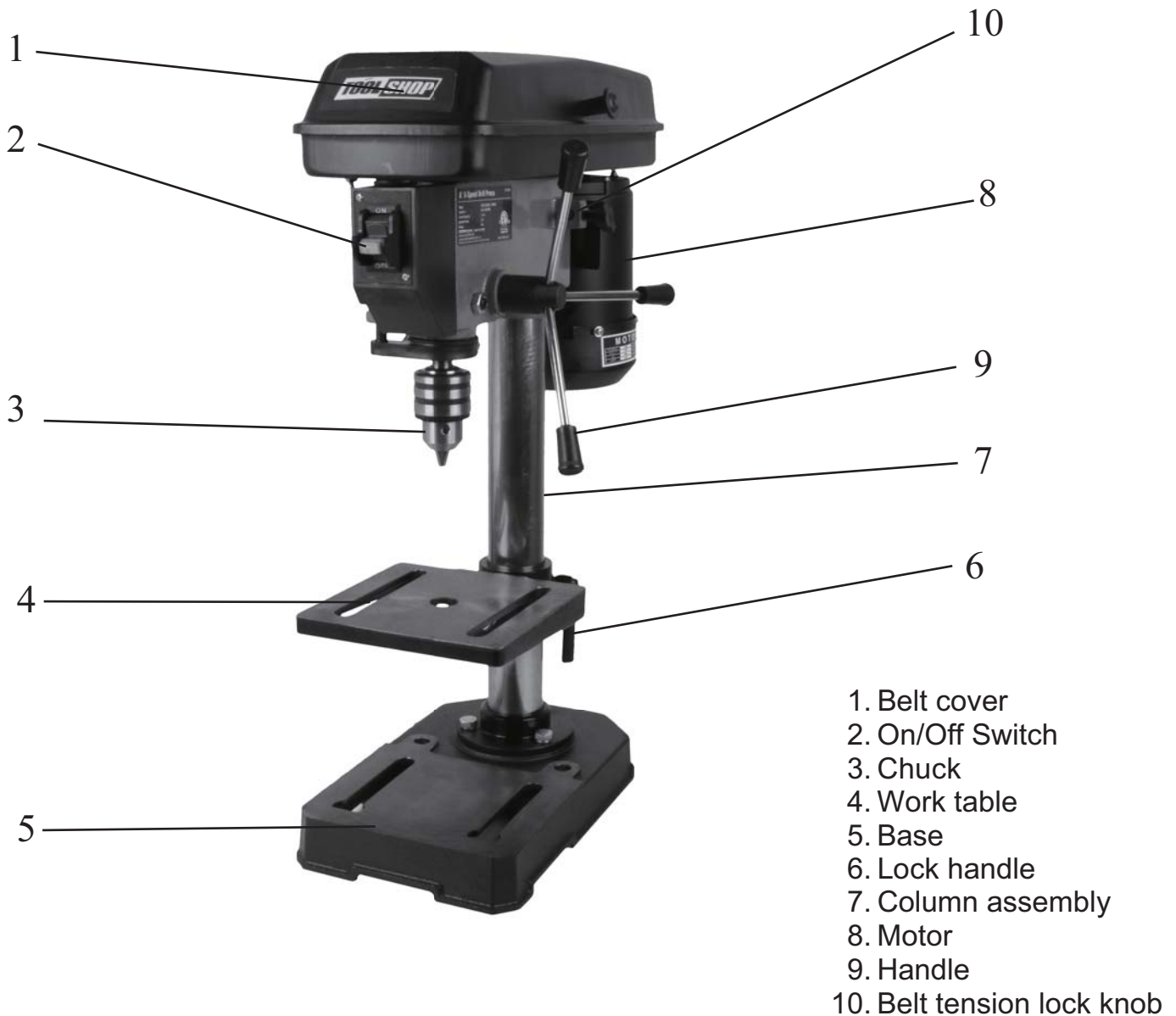
Do not modify the plug provided. If the plug does not fit the proper outlet, have a proper outlet installed by a qualified electrician.

SPECIFICATIONS



- Voltage: 120V ~ 60Hz,
- Current Rating: 3.0 Amps
- Spindle Speed: 740, 1100, 1530, 2100, 3140 RPM (No Load)
- Chuck Capacity: 1/2"
- Spindle travel: 2"
- Spindle Attachment: JT33
- Table Height Adjustment: 8-1/2"
- Swing: 8"
- Contents: (1) Chuck Key
(2) 1/8" & 5/32" hex wrench, Product Manual

FUNCTION DESCRIPTION



ASSEMBLY AND ADJUSTMENTS

WARNING: To reduce the risk of injury, never connect plug to power source outlet until all assembly steps are completed.



Base to column (See Fig. 1)

1. Place Column (1) on the Base (3) and align holes in the Column with holes in the Base.
2. Attach using Bolt, Spring Washer, and Washer (2) in each hole through the Column and into the Base.



Fig. 1

Table to column (See Fig. 2)

1. Loosen the Lock handle (3) on the table. (2).
2. Slide the Table (2) over the Column (1).
3. Tighten the Lock handle (3) to secure the Table (2) in place.

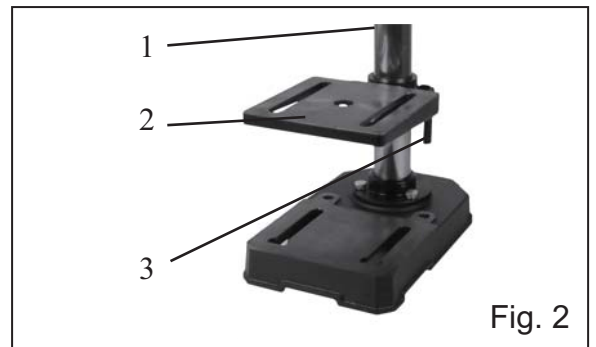


Fig. 2

Drill press head to column (See Fig. 3)

1. Lift the drill press head assembly (1) carefully and place the mounting hole of the drill press head onto the top of the column (3). Make sure the head is seated properly on.
2. Align the direction of the drill press head to the direction of the base and the table.
3. Tighten the set screws (2) using the 5/32" hex wrench.
4. Thread the handle rods (4) into the holes on the hub.
5. Hand tighten.

Note: One or two of the handles may be removed if an unusually - shaped workpiece interferes with handle rotation.

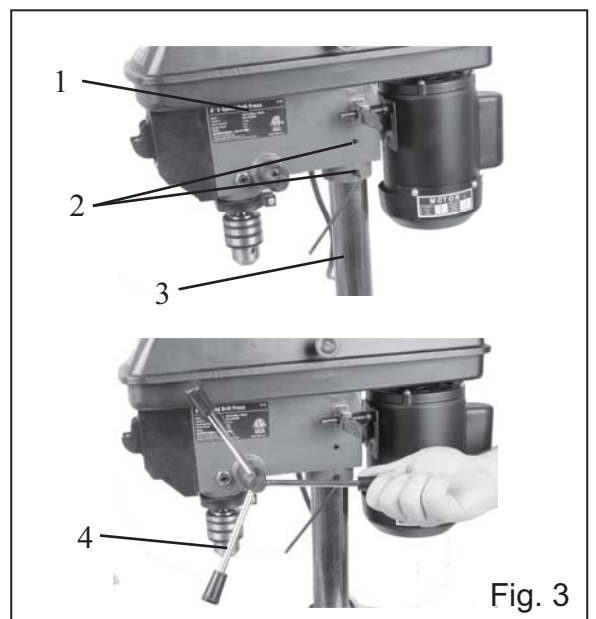


Fig. 3

ASSEMBLY AND ADJUSTMENTS



Fig. 4

Install the chuck (see Fig. 4).

1. Inspect and clean the taper hole in the chuck and the spindle. Remove all grease, coatings, and particles from the chuck and spindle surfaces with a clean cloth.
2. Open the chuck jaws by turning the chuck barrel clockwise by hand. Make sure the jaws are completely recessed inside the chuck.
3. Seat the chuck on the spindle by placing a block of wood under the chuck and tapping the wood with a hammer or tap the chuck with a rubber mallet.



CAUTION: To avoid damaging the chuck, make sure the jaws are completely recessed into the chuck. Do not use a metal hammer directly to drive the chuck into the spindle.

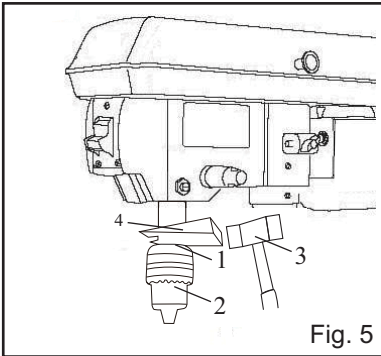


Fig. 5

Remove the chuck at a later time (see Fig. 5).

1. Turn the feed handles to lower the chuck (1) to the lowest position.
2. Place a ball joint separator tool (4) above the chuck (2) and tap it lightly with a hammer (3) to cause the chuck to drop from the spindle.

Note: This ball joint separator tool not included and sold separately.

Note: To avoid possible damage, be prepared to catch the chuck as it falls.



Fig. 6

Install the belt (see Fig. 6 and Fig. 7).

(The belt is included).

1. Open the pulley and belt cover (1).
2. Loosen the belt tension lock knob (2).
3. Slide the motor (3) as close to the drill press head as possible.
4. Place a belt (4) on the motor pulley (5) and the spindle pulley (6) in the proper position for the desired speed.
5. Pull the motor away from the drill press head until the belt is properly tensioned. Tighten the belt tension lock knobs.

Note: The belt (4) should be tight enough to prevent slippage. Correct tension is set if the belt flexes about 1/2" (13 mm) when thumb pressure is applied at the midpoint of the belt between the pulleys.

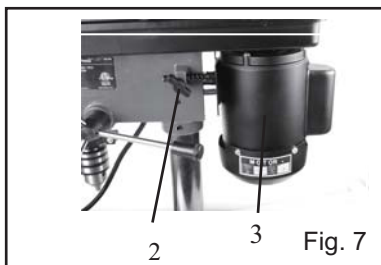


Fig. 7

Spindle speeds

This drill press offers 5 spindle speeds from 740 to 3140 RPM.

The highest speed is obtained when the belt is positioned on the largest motor pulley step and the smallest spindle pulley step.

ASSEMBLY AND ADJUSTMENTS



SPEED 1: 740 RPM	SPEED 2: 1100 RPM	SPEED 3: 1530 RPM	SPEED 4: 2100 RPM	SPEED 5: 3140 RPM
BELT A-1	BELT B-2	BELT C-3	BELT D-4	BELT E-5
SPINDLE MOTOR	SPINDLE MOTOR	SPINDLE MOTOR	SPINDLE MOTOR	SPINDLE MOTOR

WARNING: Disconnect the drill press from the power source before making any speed adjustments.



Adjust speeds and tension the belt

1. Open the drill press pulley cover.
2. Loosen the belt tension knob (2) (see Fig 7).
3. Pull the motor (3) (see Fig. 7) toward the drill press head.
4. Set the belt on the desired steps of the motor and spindle pulleys according to the belt positions on the spindle speed chart. (See above chart)
5. Pull the motor away from the drill press head to increase the belt tension. Tighten the tension knobs (2) (see Fig. 7).
6. The belt should be tight enough to prevent slippage. Correct tension is set if the deflection distance is about 1/2" (13 mm) when thumb pressure is applied at the midpoint of the belt between the pulleys.

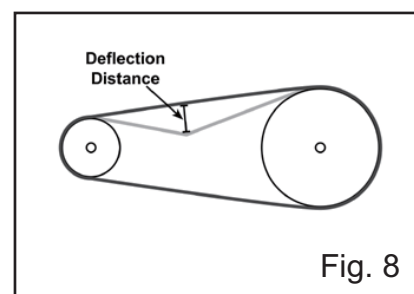


Fig. 8

Tilt the table (see Fig. 9 and Fig. 10).

The table can be tilted from 0 to 45° to the left and right.

1. Loosen the bevel lock bolt (1) with a 3/4" hex wrench.
2. Tilt the table (2) to the desired angle, using the bevel scale (3) as a basic guide.
3. Re-tighten the bevel lock bolt (1).
4. To return the table to its original position, loosen the bevel lock bolt. Realign the bevel scale (3) to the 0° setting.
5. Tighten the bevel lock bolt (1) with the 3/4" hex wrench.

Note: This 3/4" hex wrench is not included and sold separately.

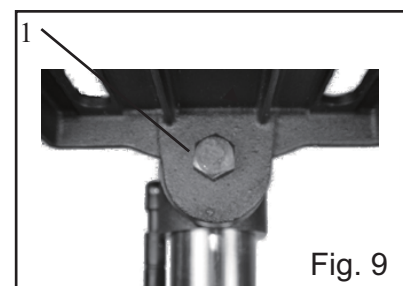


Fig. 9

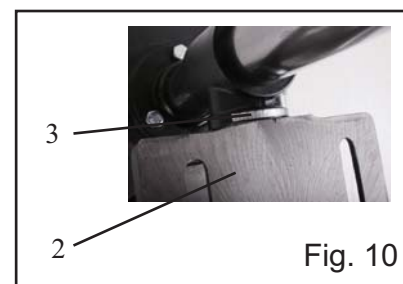


Fig. 10

ASSEMBLY AND ADJUSTMENTS



Coil spring adjustment (See Fig. 11)



WARNING: Disconnect the drill press from the power source before adjustment.

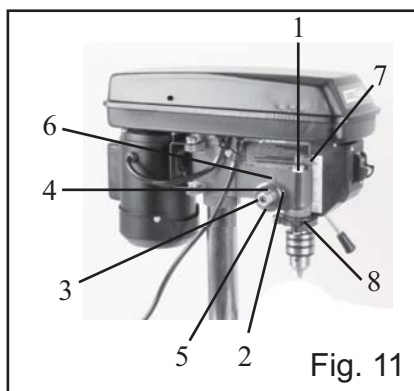


Fig. 11

If the quill (8) returns too quickly or too slowly when the handles are released, adjust the spring.

Note: This adjustment is set at the factory and should not need changing. Re-adjustments may eventually be necessary due to normal wear and tear.

1. Raise the spindle to the top position.
2. Move both depth scale nuts (1) to the lowest position and tighten to prevent the quill from dropping down.
3. Place a screwdriver in the notch (2) of the spring housing
4. Firmly hold the screwdriver in place to prevent the spring and housing from moving.
5. Loosen and remove the outer jam nut (3).
6. Loosen, BUT DO NOT REMOVE, the inner nut (4).
7. Pull out, BUT DO NOT REMOVE, the housing (5) from the raised lug (6) on the drill press head.
8. With the screwdriver in the notch, carefully turn the spring housing (5) counter-clockwise until the next notch engages with the raised lug.
9. Release the housing and tighten the inner nut (4). Do not remove the screwdriver.
10. Check the quill (8) tension
 - Move the two stop nuts (1) on the depth scale rod to the top position.
 - Turn the handles and release, raising the depth pointer (7) to the top position. If there is not enough tension, repeat steps 6-9, moving the spring housing one more notch. If there is too much tension, move the housing one notch at a time in the opposite direction.

ASSEMBLY AND ADJUSTMENTS



11. If the quill (8) returns gently to top position (correct operation):
 - Tighten the inner nut (4). Do not overtighten.
 - Replace the jam nut (3). Tighten against the inner nut.
 - Remove the screwdriver.
 - Rotate the handles and check the quill (8) for unrestricted movement.
12. If the quill (8) movement is too restricted or tight:
 - Loosen the jam nut (3).
 - Slightly loosen the housing inner nut (4).
 - Tighten the jamnut (3).
 - Check the quill (8) movement again and repeat steps 1-3 until the quill (8) moves freely.

OPERATION

WARNING: Risk of injury due to accidental starting. Do not use in an area where children may be present.



Safety Switch: Insert the Safety Key (Fig 12) into the Switch. This “Key” is a safety precaution and should remain in the Switch during use and be removed after Switch is turned off and/or any time the Drill Press is left unattended or in storage.

TURNING ON AND OFF

Note: The pulley cover must be closed to operate the drill press.

1. Switch the drill press on by pressing the “ON” button on the switch. (Fig 12).
2. Switch the drill press off by pressing the “OFF” button on the switch. (Fig 12).
3. Secure your workpiece to the table if possible, using a vice or clamps.



Fig. 12

OPERATION



4. Select your drilling depth and secure the depth stop lock knob in position.
5. Adjust the table to your desired position.
6. Slowly rotate the wheel handles to bring the drill bit down towards the table and into your workpiece. After drilling a hole, release the wheel handles slowly to return the chuck to its original position.
7. Continue the operation until the task is completed. When completed, switch the drill press off by pressing the "OFF" button on the switch.

MAINTAINING YOUR DRILL PRESS



WARNING: Turn the power switch "OFF" and disconnect the plug from the outlet prior to adjusting or maintaining the machine. DO NOT attempt to repair or maintain the electrical components of the motor. Contact a qualified service technician for this type of maintenance.

Before each use:

1. Check the power cord and plug for any wear or damage.
2. Check for any loose screws or hardware.
3. Check the area to make sure it is clear of any misplaced tools, lumber, cleaning supplies, etc. that could hamper the safe operation of the drill press.
4. To avoid a build-up of wood dust, regularly clean all parts of the machine using a soft cloth, brush or compressed air.
5. A general cleaning should be done after every use to avoid future problems and ensure the machine is in ready condition for the next time it is used.



WARNING: If blowing sawdust, wear proper eye protection to prevent debris from blowing into eyes. The use of dust collection is also advised.

Keep the table, column and base free of resin and rust. Clean them regularly with a non-flammable solvent, then coat with a light film of dry lubricant spray, or wax, to keep their surfaces clean. Do not use ordinary oil which will collect dust and hamper the operation of the machine.

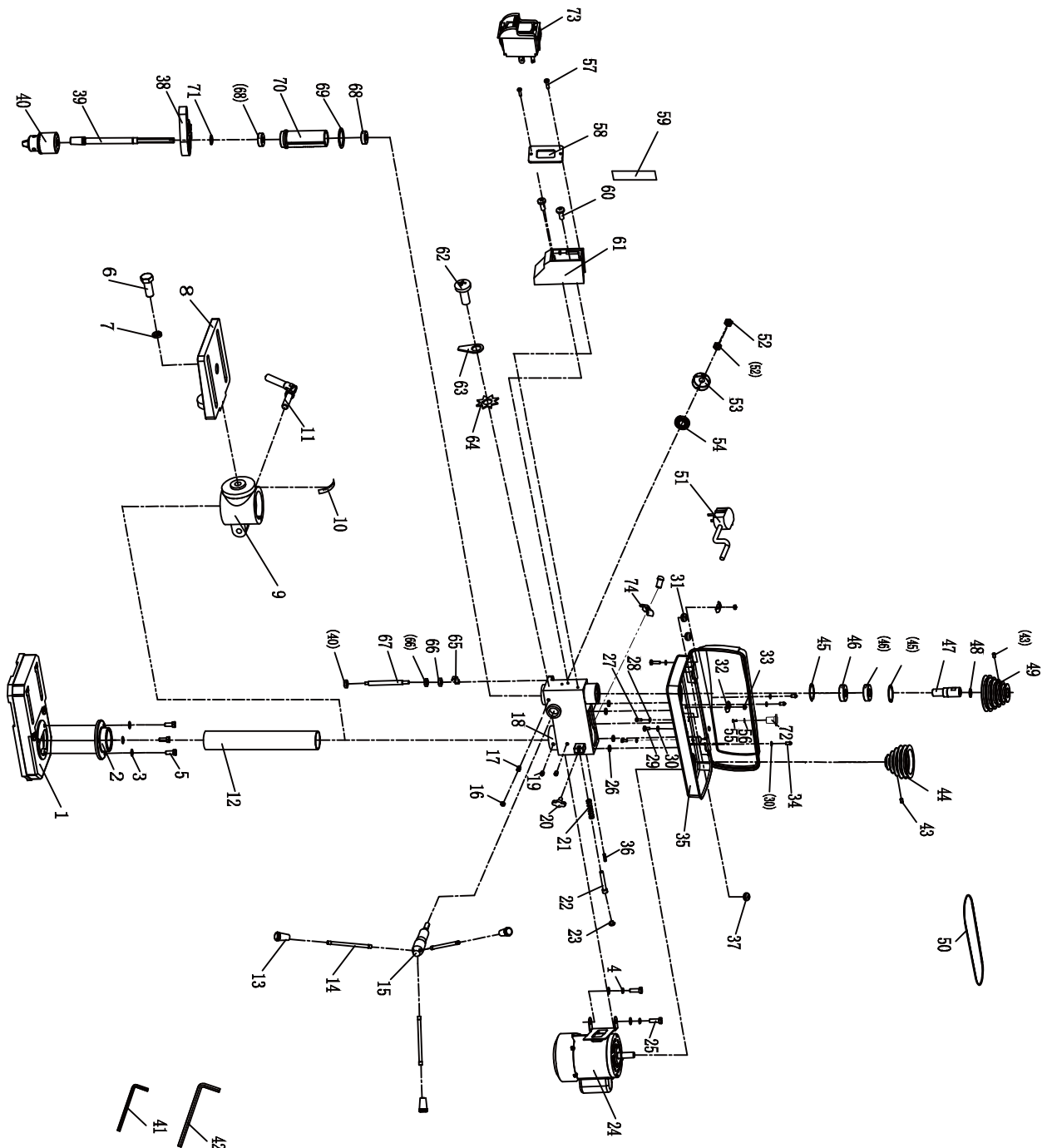
All of the ball bearings are lifetime lubricated, sealed, and do not need any further care. Keep the drive belts free of oil and grease. Check the belt tension after the first 3-5 hrs. of operation to ensure that the belts have not become stretched and loose from their 'breaking in' use.

PARTS LIST AND SCHEMATIC DRAWING



NO.	DESCRIPTION	NO.	DESCRIPTION
1	BASE	38	RULER HOLDER
2	COLUMN FLANGE	39	MAIN SPINDLE
3	FLAT WASHER	40	CHUCK
4	SPRING WASHER	41	HEXAGON BAR WRENCH
5	OUTSIDE HEX. BOLT	42	HEXAGON BAR WRENCH
6	OUTSIDE HEX. BOLT	43	HEX. SOC SET SCREW
7	SPRING WASHER	44	MOTOR PULLEY
8	WORKING TABLE	45	CIRCLIP FOR HOLE
9	TABLE SUPPORT	46	BEARING
10	ANGLE LABEL	47	KEYWAY SPINDLE
11	LOCKING HANDLE	48	CIRCLIP FOR BEARING
12	COLUMN	49	SPINDLE PULLEY
13	HANDLE TIP	50	BELT
14	HANDLE	51	PLUG WITH CABLE
15	GEAR SHAFT	52	NUT
16	NUT	53	SPRING COVER
17	HEAD SCREW	54	SPRING
18	HOUSING	55	CROSS RECESSED PAN HEAD SCREW
19	HEX. SOC SET SCREW	56	BIG FLAT WASHER
20	WING KNOB	57	CROSS RECESS HEAD TAPPING SCREW
21	MOTOR SPRING	58	SWITCH PANEL
22	MOTOR BOLT	59	CALIBRATION LABEL
23	WASHER	60	CROSS RECESSED PAN HEAD SCREW
24	MOTOR	61	SWITCH BOX
25	OUTSIDE HEX. BOLT	62	CROSS RECESSED PAN HEAD SCREW
26	DAMPING WASHER	63	GROUNDING PARTS
27	CROSS RECESS PAN HD SCREW	64	TOOTH LOCK WASHER
28	FLAT WASHER	65	INDICATOR
29	CROSS RECESS PAN HD SCREW	66	NUT
30	FLAT WASHER	67	LIMITED BOLT
31	PROTECTOR RING	68	BEARING
32	CORD CLAMP	69	WASHER
33	NUT	70	SPINDLE SOCKET
34	CROSS RECESSED PAN HEAD SCREW	71	CIRCLIP FOR BEARING
35	PULLEY COVER ASSEMBLY	72	PULLEY COVER TIP
36	ROLL PIN	73	FRONT AMERICAN TYPE SWITCH
37	PROTECTOR RING	74	CORD CLAMP

PARTS LIST AND SCHEMATIC DRAWING



WARNING: Repairs should be made by an authorized repair center. Do not open or disassemble this power tool. Contact at 1-866-915-8626 for questions regarding this power tool.

TOOL SHOP® 8 IN. DRILL PRESS

1-YEAR LIMITED WARRANTY:

This TOOL SHOP® brand power tool carries a 1-Year Limited Warranty to the original purchaser. If the tool fails within one (1) year from the date of purchase, simply bring this tool with your original sales receipt back to your nearest MENARDS® retail store. At its discretion, TOOL SHOP® agrees to have the tool replaced with the same or similar TOOL SHOP® product free of charge, within the stated warranty period, when returned by the original purchaser with original sales receipt. Notwithstanding the foregoing, this limited warranty does not cover any damage that has resulted from abuse or misuse of the Merchandise. This warranty: (1) excludes expendable parts including but not limited to blades, belts, bits, light bulbs, and/or batteries; (2) shall be void if this tool is used for commercial and/or rental purposes; and (3) does not cover any losses, injuries to persons/property or costs. This warranty does give you specific legal rights and you may have other rights, which vary from state to state. Be careful, tools are dangerous if improperly used or maintained. Seller's employees are not qualified to advise you on the use of this Merchandise. Any oral representation(s) made will not be binding on seller or its employees. The rights under this limited warranty are to the original purchaser of the Merchandise and may not be transferred to any subsequent owner. This limited warranty is in lieu of all warranties, expressed or implied including warranties or merchantability and fitness for a particular purpose. Seller shall not be liable for any special, incidental, or consequential damages. The sole exclusive remedy against the seller will be for the replacement of any defects as provided herein, as long as the seller is willing or able to replace this product or is willing to refund the purchase price as provided above. For insurance purposes, seller is not allowed to demonstrate any of these power tools for you.

For questions / comments, technical assistance or repair parts –
Please call toll free at: 1-866-915-8626 (M-F 8am – 5pm EST)

SAVE YOUR RECEIPTS. THIS WARRANTY IS VOID WITHOUT THEM.