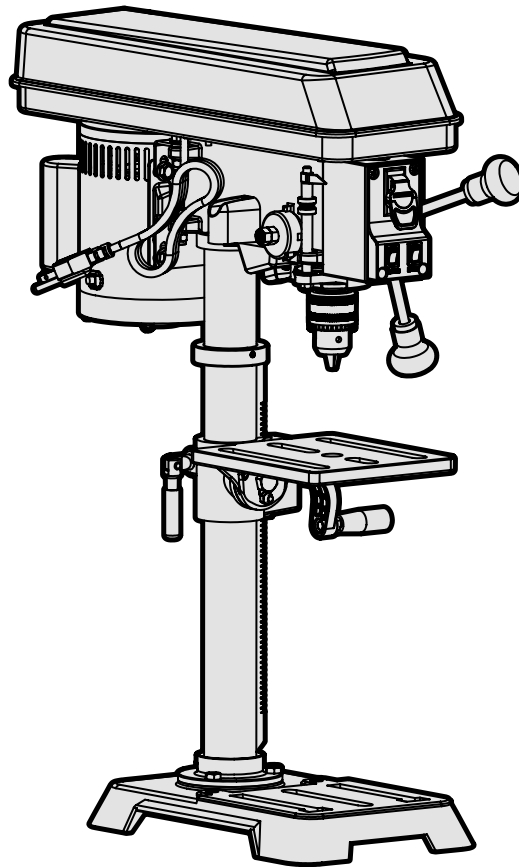




MODEL DP1050

10-INCH 5-SPEED DRILL PRESS

Instruction Manual



NEED HELP? CONTACT US!

Have product questions? Need technical support? Please feel free to contact us:



1-847-429-9263 (M-F 8AM-5PM CST)



TECHSUPPORT@WENPRODUCTS.COM

IMPORTANT: Your new tool has been engineered and manufactured to WEN's highest standards for dependability, ease of operation, and operator safety. When properly cared for, this product will supply you years of rugged, trouble-free performance. Pay close attention to the rules for safe operation, warnings, and cautions. If you use your tool properly and for its intended purpose, you will enjoy years of safe, reliable service.

For replacement parts and the most up-to-date instruction manuals, visit ***WENPRODUCTS.COM***

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To purchase replacement parts and accessories for your tool, visit ***WENPRODUCTS.COM***

INTRODUCTION

Thanks for purchasing the WEN Drill Press. We know you are excited to put your tool to work, but first, please take a moment to read through the manual. Safe operation of this tool requires that you read and understand this operator's manual and all the labels affixed to the tool. This manual provides information regarding potential safety concerns, as well as helpful assembly and operating instructions for your tool.

 Indicates danger, warning, or caution. The safety symbols and the explanations with them deserve your careful attention and understanding. Always follow the safety precautions to reduce the risk of fire, electric shock or personal injury. However, please note that these instructions and warnings are not substitutes for proper accident prevention measures.

NOTE: The following safety information is not meant to cover all possible conditions and situations that may occur. WEN reserves the right to change this product and specifications at any time without prior notice.

At WEN, we are continuously improving our products. If you find that your tool does not exactly match this manual, please visit **wenproducts.com** for the most up-to-date manual or contact our customer service at **1-847-429-9263**.

Keep this manual available to all users during the entire life of the tool and review it frequently to maximize safety for both yourself and others.

SPECIFICATIONS

Model Number	DP1050
Motor	120V, 60 Hz, 6.2A
Speed	630 - 3300 RPM (No Load)
Chuck Capacity	1/2 in.
Stroke	2 in.
Swing	10 in.
Chuck Taper	JT33
Table Bevel	0° to 45° Left and Right
Table Size	7.5 in. x 6.5 in.
Base Size	13.5 in. x 8.19 in.
Machine Height	28.75 in.
Product Weight	51.3 lbs

GENERAL SAFETY RULES

 **WARNING!** Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Safety is a combination of common sense, staying alert and knowing how your item works. The term “power tool” in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

SAVE THESE SAFETY INSTRUCTIONS.

WORK AREA SAFETY

- 1. Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
- 2. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes.
- 3. Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

ELECTRICAL SAFETY

- 1. Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** Unmodified plugs and matching outlets will reduce risk of electric shock.
- 2. Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
- 3. Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- 4. Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.
- 5. When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.

- 6. If operating a power tool in a damp location is unavoidable, use a ground fault circuit interrupter (GFCI) protected supply.** Use of a GFCI reduces the risk of electric shock.

PERSONAL SAFETY

- 1. 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.
- 2. Use personal protective equipment. Always wear eye protection.** Protective equipment such as a respiratory mask, non-skid safety shoes and hearing protection used for appropriate conditions will reduce the risk of personal injury.
- 3. Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.** Carrying power tools with your finger on the switch or energizing power tools that have the switch on invites accidents.
- 4. Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- 5. Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- 6. Dress properly. Do not wear loose clothing or jewelry. Keep your hair and clothing away from moving parts.** Loose clothes, jewelry or long hair can be caught in moving parts.

GENERAL SAFETY RULES

 **WARNING!** Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Safety is a combination of common sense, staying alert and knowing how your item works. The term “power tool” in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

SAVE THESE SAFETY INSTRUCTIONS.

7. If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dust-related hazards.

POWER TOOL USE AND CARE

1. Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.

2. Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.

3. Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.

4. Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.

5. Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.

6. Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

7. Use the power tool, accessories and tool bits, etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.

8. Use clamps to secure your workpiece to a stable surface. Holding a workpiece by hand or using your body to support it may lead to loss of control.

9. KEEP GUARDS IN PLACE and in working order.

SERVICE

1. Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

CALIFORNIA PROPOSITION 65 WARNING

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities may contain chemicals, including lead, known to the State of California to cause cancer, birth defects, or other reproductive harm. Wash hands after handling. 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 with approved safety equipment such as dust masks specially designed to filter out microscopic particles.

DRILL PRESS SAFETY WARNINGS

 **WARNING!** Do not let comfort or familiarity with the product replace strict adherence to product safety rules. Failure to follow the safety instructions may result in serious personal injury.

1. **TOOL PURPOSE.** This drill press is designed to drill through metal wood, plastic, and tiles. Drilling through other materials could result in fire, injury, or damage to the workpiece. Using the machine for any other purpose for which it is not designed may result in serious injuries, machine damage and voiding of the warranty.
2. **MACHINE MOUNTING.** For operation safety, the drill press must be securely mounted onto a flat and stable surface or stand.
3. **PERSONAL SAFETY.**
 - Always wear ANSI Z87.1-approved glasses with side shields, hearing protection and a dust mask.
 - Do not wear loose clothing or jewelry, as they might get drawn in by the tool. Tie back long hair.
 - DO NOT wear gloves while operating this machine.
4. **Electric Cords.** Keep cords away from heat, oil, sharp edges, and moving parts of the tool. Have an electrician replace or repair damaged or worn cords immediately.
5. **TOOL & ACCESSORIES INSPECTION.** Before operation, check the tool and accessories for any damage or missing parts. Do not use the tool if any part is missing or damaged. Make sure all adjustments are correct and all connections are tight. Keep all guards in place.
6. **DRILLING ACCESSORIES.**
 - Make sure the drill bit is not damaged before use; only use undamaged drill bits
 - Make sure the drill bit is securely locked in the chuck before turning ON.
 - Make sure the chuck key is removed from the chuck before turning ON.
 - Use clamps or a vise (sold separately to secure a workpiece to the table. This will prevent the workpiece from rotating with the drill bit.
7. Make sure the table lock is tightened before starting the drill press.
8. **WORKPIECE REQUIREMENTS.**
 - Only stand workpieces sturdy enough to withstand the force of the drill bit.
 - Inspect the workpiece for imperfections, nails, staples, etc. before drilling. Never drill stock that has questionable imperfections or embedded foreign objects.
 - Do not drill materials without a flat surface unless a suitable support is used (clamp or vise).
9. **PREVENTING ACCIDENTAL STARTING.** Make sure the power switch is in the OFF position prior to plugging in the machine. Always make sure the power switch is in the OFF position and the machine is unplugged when doing any cleaning, assembly, setup operations, or when not in use.
10. Do not operate this tool until it is completely assembled and installed according to the instructions.
11. Remove scrap pieces and other objects from the table before turning ON the drill press.

DRILL PRESS SAFETY WARNINGS

 **WARNING!** Do not let comfort or familiarity with the product replace strict adherence to product safety rules. Failure to follow the safety instructions may result in serious personal injury.

12. DRILLING THE WORKPIECE.

- Allow spindle to reach full speed before drilling the workpiece.
- Never start the machine with the drill bit pressed against the workpiece.
- Adjust the table or depth stop to avoid drilling into the table.
- Set the drill press to the speed that is appropriate for the material being drilled.

13. Do not touch moving pieces. Keep hands away from the drill bit during operation. If cleaning is necessary, turn off the machine and use a brush to remove sawdust and chips instead of your hands.

14. Never perform layout, assembly or set-up work on the table while the machine is ON.

15. After turning off the drill press, wait until the spindle comes to a complete stop before touching the workpiece. Always turn the drill OFF before removing scrap from the table.

16. Before leaving the machine, always turn OFF and unplug the machine, remove the drill bit, and clean the table. Turn Off and unplug the machine before cleaning, making adjustments or changing drill bits. Accidental start-ups may occur if the tool is plugged in during an accessory change or adjustment.

17. **CLEANING.** Never use solvents to clean plastic parts. Solvents could dissolve or otherwise damage the material. Use only a soft damp cloth to clean plastic parts.

18. **REPLACEMENTS.** Should any component of your drill press be missing/damaged or fail in any way, shut OFF the switch and remove the plug from power supply outlet. Replace the missing, damaged, or failed parts using only identical replacement parts before resuming operation.

CALIFORNIA PROPOSITION 65 WARNING

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities may contain chemicals, including lead, known to the State of California to cause cancer, birth defects, or other reproductive harm. Wash hands after handling. 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 with approved safety equipment such as dust masks specially designed to filter out microscopic particles.

These safety instructions can't possibly warn of every scenario that may arise with this tool, so always make sure to stay alert and use common sense during operation.

ELECTRICAL INFORMATION

GROUNDING INSTRUCTIONS

In the event of a malfunction or breakdown, grounding provides the path of least resistance for an electric current and reduces the risk of electric shock. This tool is equipped with an electric cord that has 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.

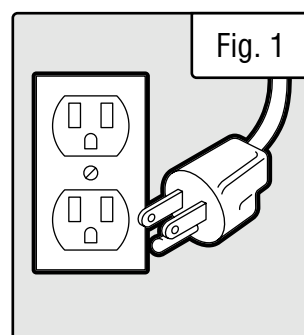
1. Do not modify the plug provided. If it will not fit the outlet, have the proper outlet installed by a licensed electrician.

2. Improper connection of the equipment grounding conductor can result in electric shock. The conductor with the green insulation (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.

3. Check with a licensed electrician or service personnel if you do not completely understand the grounding instructions or whether the tool is properly grounded.

4. Use only three-wire extension cords that have three-pronged plugs and outlets that accept the tool's plug. Repair or replace a damaged or worn cord immediately.

CAUTION! In all cases, make certain the outlet in question is properly grounded. If you are not sure, have a licensed electrician check the outlet.



GUIDELINES AND RECOMMENDATIONS FOR EXTENSION CORDS

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. The table below shows the correct size to be used according to cord length and ampere rating. When in doubt, use a heavier cord. The smaller the gauge number, the heavier the cord.

AMPERAGE	REQUIRED GAUGE FOR EXTENSION CORDS			
	25 ft.	50 ft.	100 ft.	150 ft.
6.2A	18 gauge	16 gauge	14 gauge	12 gauge

1. Examine extension cord before use. Make sure your extension cord is properly wired and in good condition. Always replace a damaged extension cord or have it repaired by a qualified person before using it.

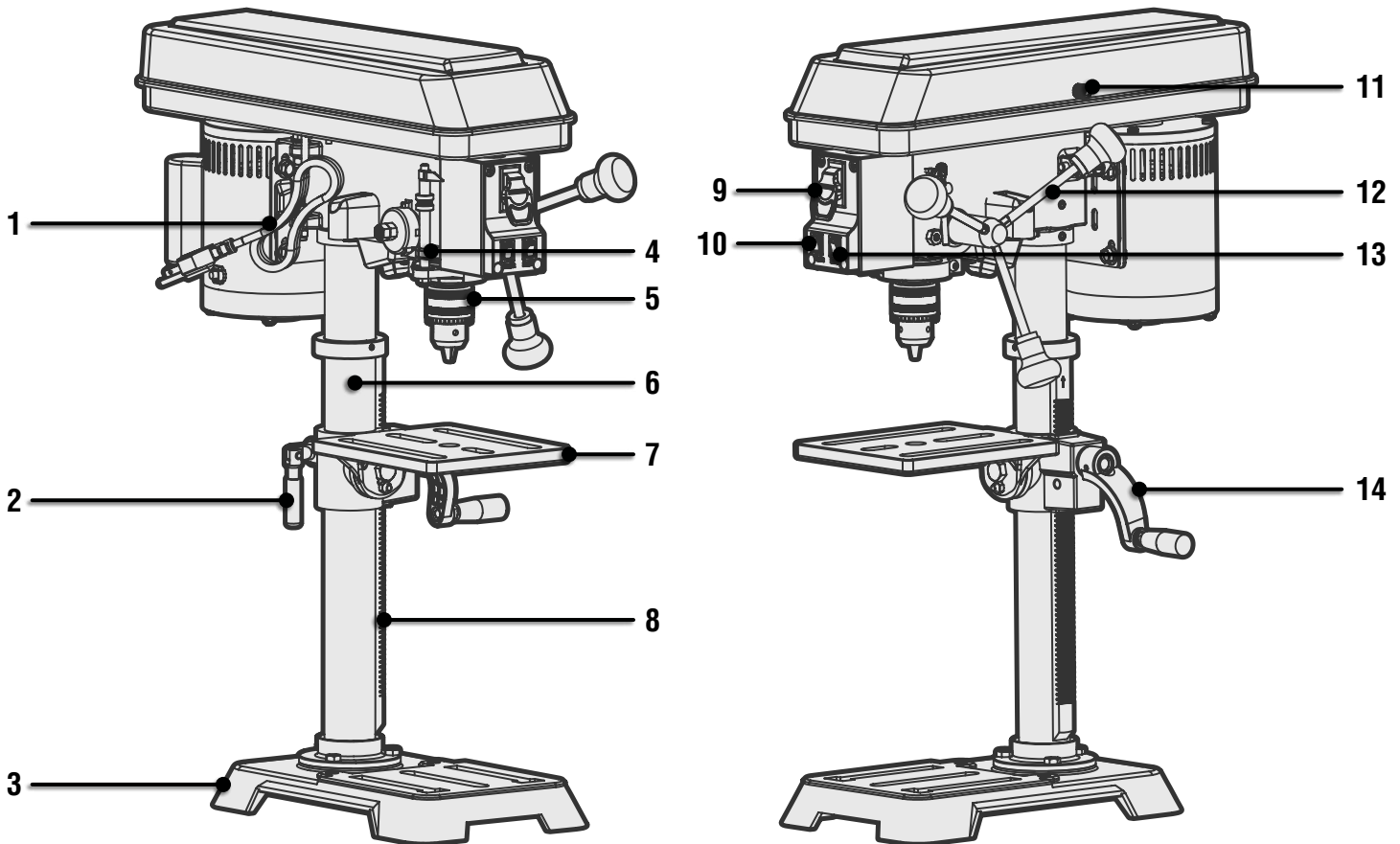
2. Do not abuse extension cord. Do not pull on cord to disconnect from receptacle; always disconnect by pulling on plug. Disconnect the extension cord from the receptacle before disconnecting the product from the extension cord. Protect your extension cords from sharp objects, excessive heat and damp/wet areas.

3. Use a separate electrical circuit for your tool. This circuit must not be less than a 12-gauge wire and should be protected with a 15A time-delayed fuse. Before connecting the motor to the power line, make sure the switch is in the OFF position and the electric current is rated the same as the current stamped on the motor nameplate. Running at a lower voltage will damage the motor.

KNOW YOUR DRILL PRESS

TOOL PURPOSE

Drill presses are mainly used to drill clean, precise cylindrical holes into workpieces or enlarge existing holes. You may also find other uses for your drill press such as reaming, countersinking, counterboring, tapping, etc. Refer to the diagram below to become familiarized with the parts and controls of your drill press.



- 1. Power Cord
- 2. Table Locking Handle
- 3. Base
- 4. Depth Scale
- 5. Chuck
- 6. Column
- 7. Table

- 8. Rack
- 9. ON / OFF Switch with
- 10. LED Worklight Switch
- 11. Housing Cover Screw
- 12. Feed Handle
- 13. Laser ON / OFF Switch
- 14. Crank Handle

Various drill bits, vises, clamps and other accessories can be purchased from wenproducts.com

ASSEMBLY & ADJUSTMENTS

UNPACKING

With the help of a friend or trustworthy foe, carefully remove the drill press from the packaging. Make sure to take out all contents and accessories. Do not discard the packaging until the drill press is completely assembled.

Before using the drill press, you must assemble the unit using the instructions in this section. Check your packing list against the diagram below. If any part is damaged or missing, please contact our customer service at **1-847-429-9263**, M-F 8-5 CST or email us at **techsupport@wenproducts.com**.

CLEANING THE WORK TABLE SURFACE

Your drill press comes protected with a layer of anti-rust coating on its exposed (non-painted) metal surfaces. Clean the rust-protected surfaces using a soft cloth, moistened with kerosene. Do not use gasoline, or cellulose-based solvents such as paint thinner or lacquer thinner, as these will damage the painted surfaces. After cleaning, apply a light coat of good-quality paste wax to the table and column to prevent rust. Wipe all parts thoroughly with a clean, dry cloth.

PACKING LIST

Check your packing list against the diagram below. If any part is damaged or missing, please contact our customer service at **1-847-429-9263**, M-F 8-5 CST or email us at **techsupport@wenproducts.com** and DO NOT plug the drill press in or turn ON.

Tools needed for assembly (not included):

- Adjustable wrench
- Hammer and block of wood, or rubber mallet, or dead-blow hammer

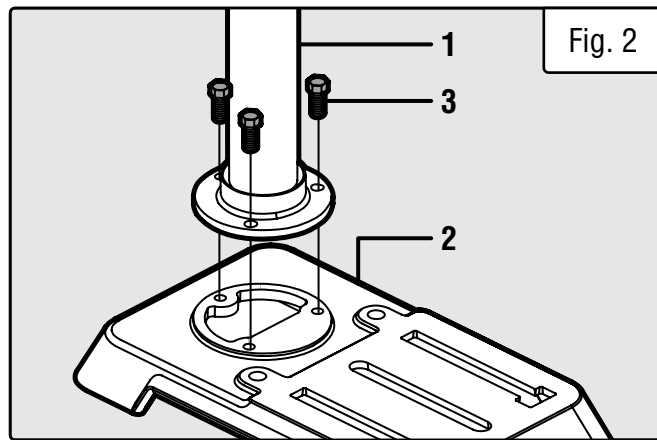
Description	Qty.
Head / Motor Assembly	1
Column Assembly	1
Base	1
Table Assembly	1
Table Locking Handle	1
Worm	1
Table Adjustment Handle	1
Chuck Key	1
Chuck	1
Feed Handle	3
Hex Wrenches	2
Hex Bolts	3

ASSEMBLY & ADJUSTMENTS

⚠ WARNING! Do not plug in or turn on the tool until it is fully assembled according on the instructions. Failure to follow the safety instructions may result in serious personal injury.

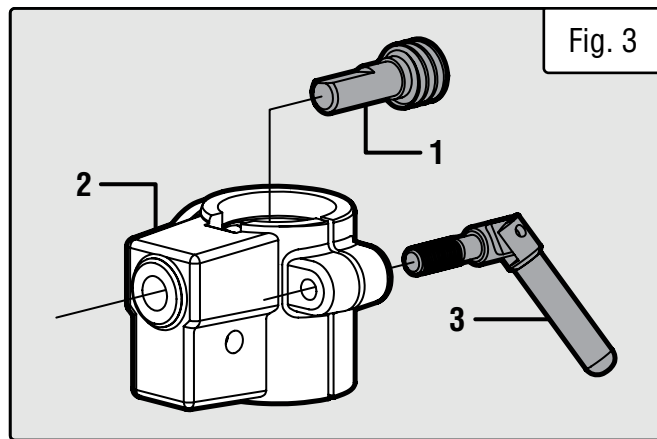
ATTACHING THE COLUMN TO THE BASE

1. Place the column assembly (Fig. 2 - 1) onto the base (Fig. 2 - 2), aligning the column support holes with the base holes.
2. Secure the column assembly to the base using the three included hex bolts (Fig. 2 - 3).



ATTACHING THE TABLE TO THE COLUMN

1. Insert the worm gear (Fig. 3 - 1) into the table bracket (Fig. 3 - 2) as shown in Fig. 3.
2. Thread the lock handle (Fig. 3 - 3) into the table bracket as shown in Fig. 3.



2. Slide the rack (Fig. 4 - 1) into the slot on the table bracket (Fig. 4 - 2). Make sure that the rack teeth engage with the worm gear in the bracket. The large section of the rack with no teeth should be at the top. The table bracket should sit in the center of the rack.

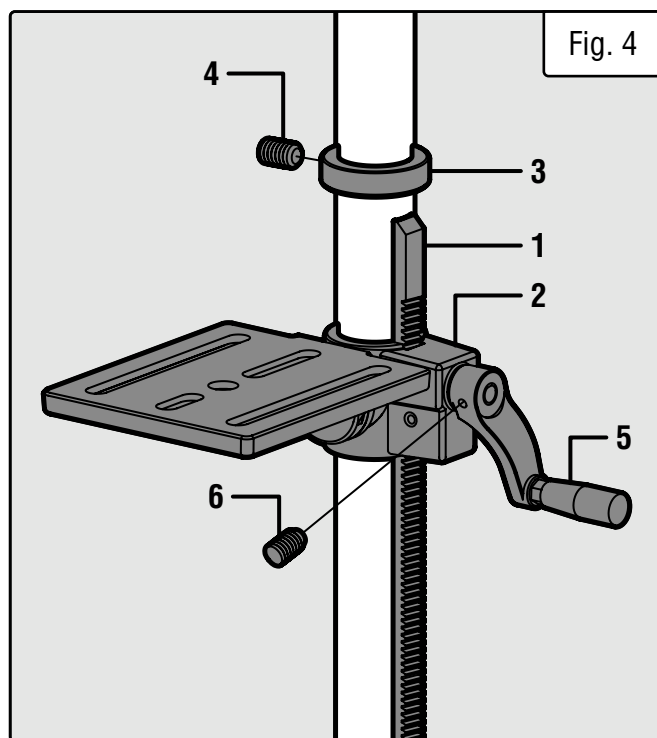
3. Slide the table bracket and rack assembly down together onto the column. Insert the bottom tapered edge of the rack into the lip of the column assembly. Hold it in this position until the next step is complete.

6. Place the collar (Fig. 4 - 3), bevel side down, over the rack. Tighten the set screw (Fig. 4 - 4) with the included hex wrench to secure the rack into position.

NOTE: Make sure there is enough clearance to allow the table to rotate around the column. To avoid column or collar damage, only tighten the set screw enough to keep collar in place.

7. Place the crank handle (Fig. 4 - 5) onto the worm gear shaft on the side of the table bracket as shown in Fig. 4. Secure it in place with the set screw (Fig. 4 - 6).

8. Tighten the column lock handle.



ASSEMBLY & ADJUSTMENTS

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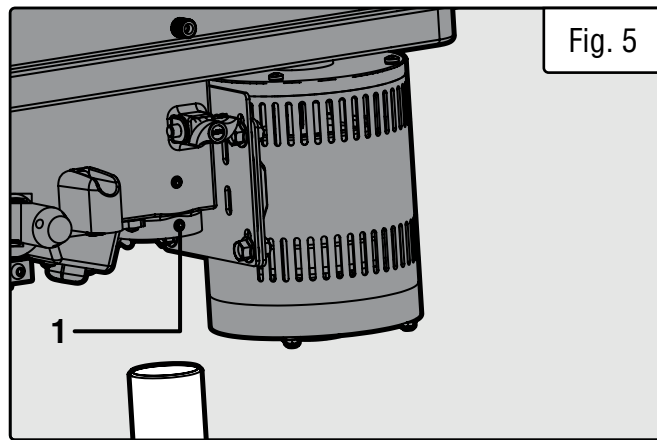
ATTACHING THE HEAD ASSEMBLY TO THE COLUMN

1. Remove the set screws (Fig. 5 - 1) on both sides of the head assembly.

⚠ CAUTION! The drill press head is heavy. To avoid injury, two people should lift it into position.

2. With assistance, carefully lift the head assembly onto the column. Make sure that the head sits completely on the column.

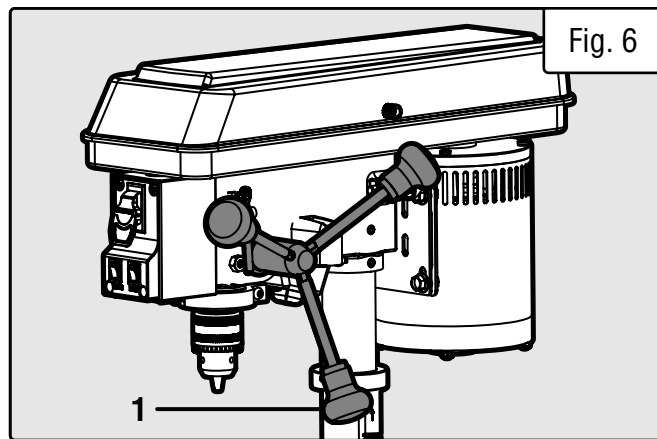
3. Align the set screw holes on the head assembly with the holes on the column and reinstall the two set screws to secure the head in place.



INSTALLING THE FEED HANDLES

1. Thread the three feed handles (Fig. 6 - 1) into the feed hub on the side of the drill press as shown in Fig. 6.

NOTE: When using the drill press, one or two of the feed handles may be removed if an unusually-shaped workpiece interferes with the handle rotation.



ASSEMBLY & ADJUSTMENTS

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INSTALLING THE CHUCK

1. Unlock the table lock handle and raise the drill press table within 6 in. of the spindle. Put a piece of scrap wood on the table to protect the chuck nose.

2. Wipe the chuck and spindle with a clean rag. Do not use any solvents yet.

3. Completely remove any burrs found on the inner mating surfaces of the chuck with a diamond coated tool or a fine file. Use a grade 000 steel wool pad to lightly go over the chuck and spindle. This will remove any oxidation or dirt that you cannot see.

NOTE: Do steps 2-3 even if your chuck is new. New chucks can still have burrs, oxidation, and dirt that you cannot see.

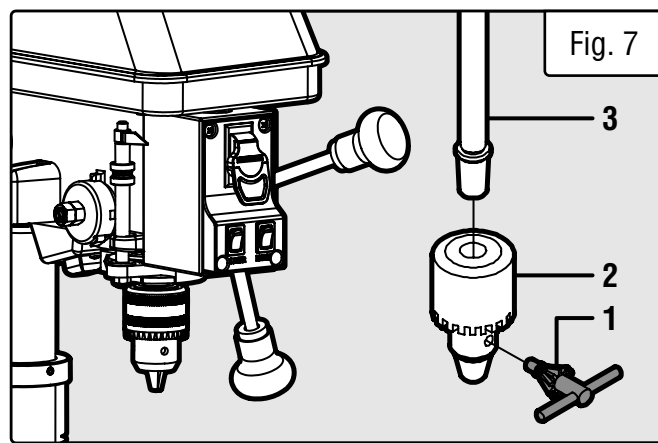
4. Use lacquer thinner or acetone on a lint-free rag to clean the chuck. Do not touch these surfaces with your hands after cleaning. Rubbing alcohol does not work well, as it contains oil. Let the chuck dry fully before continuing on to step 5.

5. Use the included chuck key (Fig. 7 - 1) to retract the jaws of the chuck (Fig. 7 - 2) all the way into the body.

6. Using the feed handle, gently lower the spindle (Fig. 7 - 3) ensuring that the chuck and spindle are properly aligned.

7. Insert the spindle all the way into the chuck, pressing the chuck nose hard against the piece of scrap wood on the table to secure the chuck into place.

8. Tap the end of the drill chuck with a rubber mallet or dead blow hammer to fully seat it on the spindle

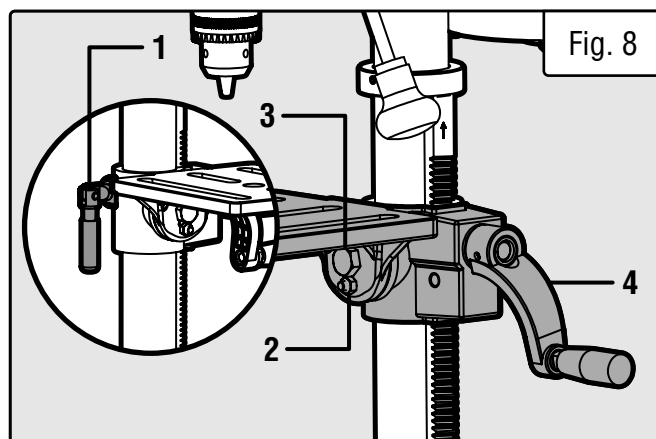


ASSEMBLY & ADJUSTMENTS

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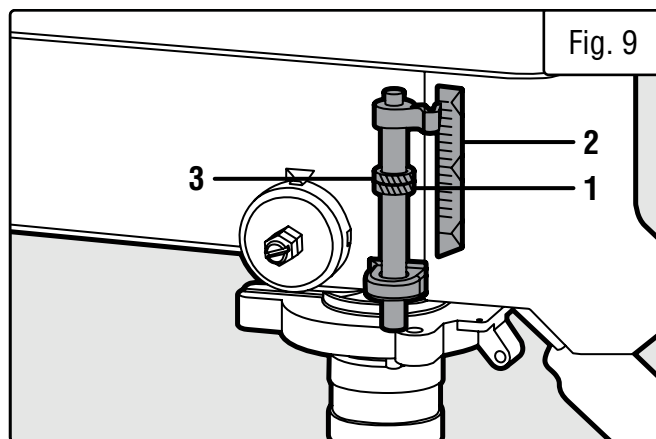
ADJUSTING THE TABLE

1. To adjust the table around the column, loosen the table locking handle (Fig. 8 - 1).
2. To tilt the table left and right, remove the table pin (Fig. 8 - 2) and loosen the bevel bolt (Fig. 8 - 3). Tilt the table to the desired angle using the angle scale. When returning the table to 0 degrees, reinstall the table pin and tighten the bevel bolt.
3. To raise and lower the table, loosen the table locking handle. Use the crank handle (Fig. 8 - 4) to raise and lower the table. Once the table is in the desired position, lock the table locking handle.



SQUARING THE TABLE

1. Insert a drill bit into the chuck and tighten.
2. Raise and lock the table about 1 inch from the end of the drill bit.
3. Place a combination square on the table. The drill bit should be parallel to the straight edge of the square.
4. If an adjustment is needed, remove the table pin and loosen the bevel bolt. Square the table to the bit by tilting the table.
5. Reinstall the pin and tighten the bevel bolt once the table is square.



SETTING THE DRILLING DEPTH

1. With the power OFF, use the feed handle to lower the drill bit until it comes in contact with the workpiece. Hold the drill in that position until the drilling depth has been set.
2. Determine the drill depth for the workpiece.
3. Rotate the depth adjustment nut (Fig. 9 - 1) until it is aligned with the desired depth mark on the depth gauge scale (Fig. 9 - 2).
4. Adjust the lock nut (Fig. 9 - 3) against the depth adjustment nut to lock it in place.

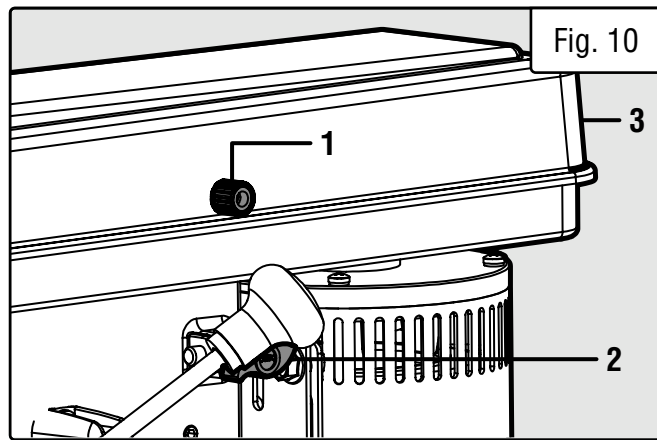
ASSEMBLY & ADJUSTMENTS

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ADJUSTING THE BELT TENSION

1. Open the belt housing cover by removing the belt housing screw (Fig. 10 - 1).
2. Loosen the motor lock knob (Fig. 10 - 2).
3. Push the motor away from the front of the drill press to apply tension to belt.
4. Tighten the motor lock knob to lock the motor in place and close the belt housing cover using the belt housing screw.

NOTE: The belt is correctly tensioned when you can flex the belt approximately 3/8" in either direction with your finger.

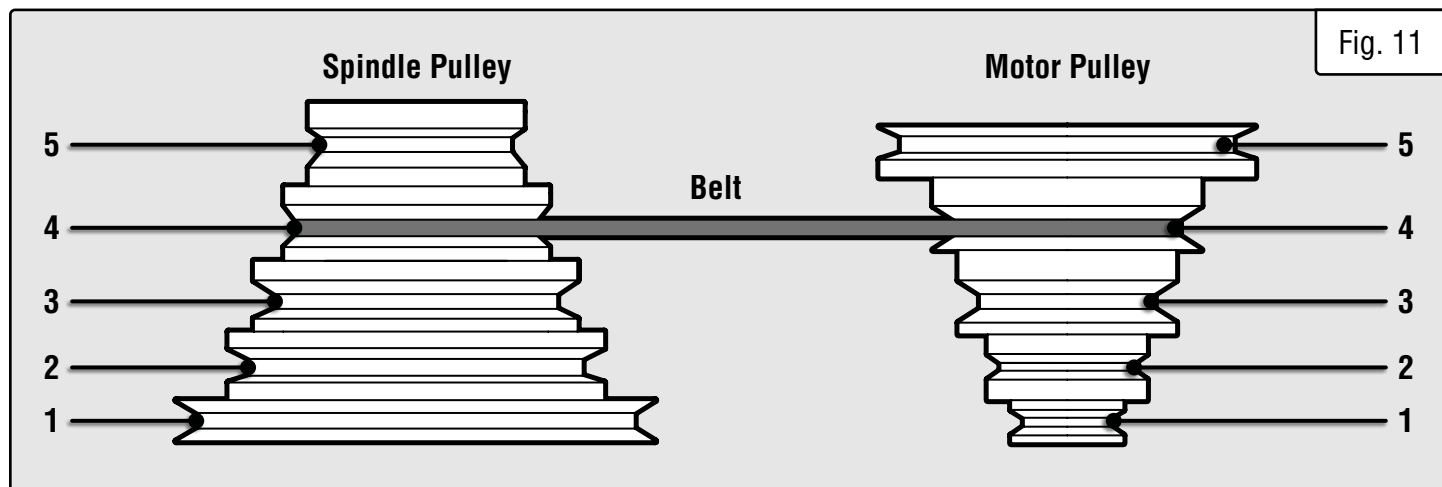


SPEED ADJUSTMENT

Your drill press has five different speed options: 630, 1100, 1800, 2450, and 3300 RPM. Use the chart on the following page to determine the proper speed for your operation.

1. Open the belt housing cover (Fig. 10 - 3) by removing the belt housing screw (Fig. 10 - 1).
2. Loosen the motor lock knob (Fig. 10 - 2).
3. Pull the motor towards the front of the drill press to loosen the tension on the belt and tighten the motor lock knob.
4. Adjust the position of the belt on the spindle and motor pulleys (Fig. 11). **NOTE:** Make sure that the belt runs on the same setting of each pulley. For example, if the belt is on the third setting of the motor pulley, then it should also be on the third setting of the spindle pulley.
5. Push the motor away from the front of the drill press to apply tension to belt.
6. Tighten the motor lock knob to lock the motor in place and close the belt housing cover using the belt housing screw.

NOTE: The belt is correctly tensioned when you can flex the belt approximately 3/8" in either direction with your finger.



ASSEMBLY & ADJUSTMENTS

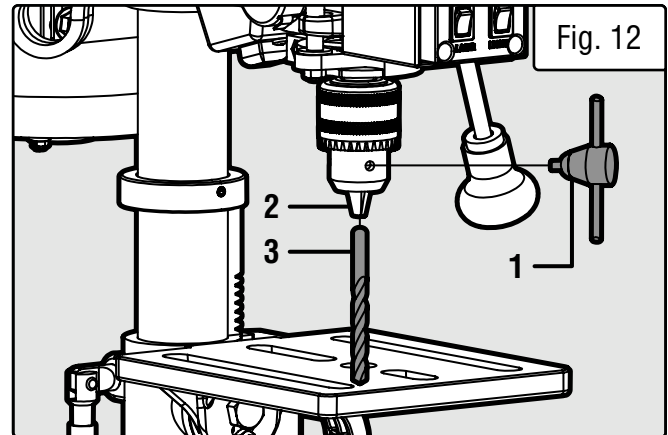
⚠ WARNING! Do not plug in or turn on the tool until it is fully assembled according to the instructions. Failure to follow the safety instructions may result in serious personal injury.

RECOMMENDED SPEED FOR DRILL SIZE & MATERIAL

Belt Location	Speed Range RPM	Wood		Alum. Zinc Brass		Iron Steel	
		in.	mm	in.	mm	in.	mm
5-5	3300	3/8	9.5	7/32	5.6	3/32	2.4
4-4	2450	5/8	16.0	11/32	8.75	5/32	4.0
3-3	1800	7/8	22.0	15/32	12.0	1/4	6.4
2-2	1100	1-1/4	31.75	11/16	17.5	3/8	9.5
1-1	630	1-5/8	41.4	3/4	19.0	1/2	12.5

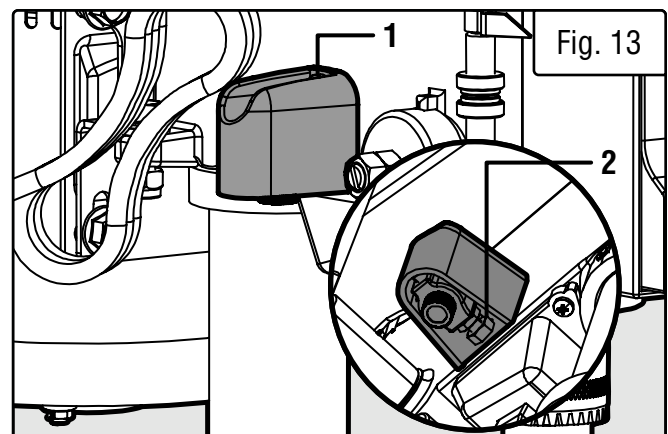
INSTALLING THE DRILL BIT

1. Make sure that the drill press is turned OFF and removed from the power source.
2. Using the chuck key (Fig. 12 - 1), open the drill chuck jaws (Fig. 12 - 2) wide enough to accept the shank of the drill bit (Fig. 12 - 3).
3. Insert the drill bit into the chuck so that the chuck jaws grip as much of the shank as possible. Center the bit and hand tighten the chuck. **NOTE:** Make sure that small bits do not get trapped between the chuck jaws.
4. Tighten the chuck jaws using the chuck key to ensure that the drill bit will not slip while drilling.



LASER ALIGNMENT

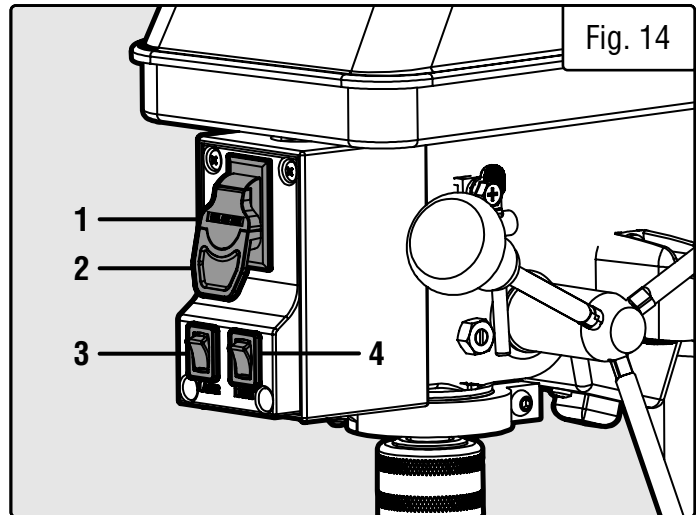
1. Turn the laser ON. If the laser lines are not aligned with the mark on the workpiece, loosen the set screws (Fig. 13 - 1) on the laser housings on both sides of the drill press. Rotate the laser adjustments knobs (Fig. 13 - 2) until the laser lines are aligned properly. Retighten the set screws.



OPERATION

TURNING THE DRILL PRESS ON / OFF

1. Make sure that the drill press is fully assembled according to the assembly instructions.
2. Plug the drill press into the power source.
3. To turn the drill press ON, insert the safety key (Fig. 14 - 1) into the ON / OFF switch (Fig. 14 - 2) and move the power switch to the up position.
4. To turn the drill press OFF, move the power switch to the down position. Unplug the drill press from the power source once the operation has been complete.
5. To lock the drill press in the OFF position, remove the safety key from the power switch.



TURNING THE LED WORKLIGHT ON / OFF

1. To turn the LED worklight ON / OFF, press the LED worklight power switch (Fig. 14 - 3).
2. To turn the laser ON / OFF, press the laser power switch (Fig. 14 - 4).

GENERAL DRILLING GUIDELINES - DRILLING A HOLE

⚠ WARNING! To prevent the workpiece and the backup material from slipping from your hand while drilling, position the workpiece and backup material to the left side of the column. If the workpiece and the backup material are not long enough to reach the column, clamp the workpiece and back material to the table. Failure to do this could result in personal injury.

1. Mark where you want to drill on the workpiece by using a center punch or a sharp nail.
2. Before turning the drill press ON, turn the feed handles to bring the drill bit down. Line the drill bit tip up with the mark. Clamp the workpiece in place.
3. Turn the drill press ON and pull down on the feed handles with the appropriate force needed to allow the drill bit to drill the material.

NOTE: Feeding too slowly might cause the drill bit to turn in the chuck. Feeding too rapidly might stop the motor, cause the belt to slip, force the workpiece loose, or break the drill bit. Practice with scrap material to get the feel of the machine before attempting to do any drilling operation.

DRILLING SPEEDS

There are a few important factors to keep in mind when determining the best drilling speed:

- Material type
- Hole size
- Drill bit or cutter type
- Quality desired

Smaller drill bits require greater speed than larger drill bits. Softer materials require greater speed than harder materials. See the chart on page 15 for recommended speeds for particular materials.

OPERATION

DRILLING METAL

- Use metal-piercing twist drill bits.
- It is always necessary to lubricate the tip of the drill with oil to prevent overheating of the drill bit.
- All metal workpieces should be clamped down securely. Any tilting, twisting, or shifting causes a rough drill hole, and increases the potential of drill bit breakage.
- Never hold a metal workpiece with your bare hands. The cutting edge of the drill bit may seize the workpiece and throw it, causing serious injury. The drill bit will break if the metal piece suddenly hits the column.
- If the metal is flat, clamp a piece of wood under it to prevent turning. If it cannot be laid flat on the table, then it should be blocked and clamped.

DRILLING WOOD

- Brad point bits are preferred. Metal piercing twist bits may be used on wood.
- Do not use auger bits. Auger bits turn so rapidly that they can lift the workpiece off of the table and whirl it around.
- Always protect the drill bit by positioning the table so that the drill bit will enter the center hole when drilling through the workpiece.
- To prevent splintering, feed the drill bit slowly right as the bit is about to cut through to the backside of the workpiece.
- To reduce splintering and protect the point of the bit, use scrap wood as a backing or a base block under the workpiece.

FEEDING THE DRILL BIT

- Pull down on the feed handles with only enough force to allow the drill bit to cut.
- Feeding too rapidly might stall the motor, cause the belt to slip, damage the workpiece, or break the drill bit.
- Feeding too slowly will cause the drill bit to heat up and burn the workpiece.

MAINTENANCE

 **WARNING!** To avoid accidents, turn OFF and unplug the tool from the electrical outlet before cleaning, adjusting, or performing any maintenance or lubrication work.

 **WARNING!** Any attempt to repair or replace electrical parts on this tool may be hazardous. Servicing of the tool must be performed by a qualified technician. When servicing, use only identical WEN replacement parts. Use of other parts may be hazardous or induce product failure.

ROUTINE INSPECTION

Before each use, inspect the general condition of the tool. If any of these following conditions exist, do not use until parts are replaced.

CHECK FOR:

- Loose hardware or improper mounting,
- Misalignment
- Damaged cord/electrical wiring,
- Cracked or broken parts, and
- Any other condition that may affect its safe operation

CAUTION: Most plastics are susceptible to damage from various types of commercial solvents. Do not use any solvents or cleaning products that could damage the plastic parts. Some of these include but are not limited to: gasoline, carbon tetrachloride, chlorinated cleaning solvents, and household detergents that contain ammonia.

CLEANING & STORAGE

1. After every operation, use a vacuum to remove sawdust or metal shavings from the tool surfaces, motor housing and work area. Keep the ventilation openings free from dust and debris to prevent the motor from overheating.
2. Wipe the tool surfaces clean with a soft cloth or brush. Make sure water does not get into the tool.
3. Apply a light coat of paste wax to the column and table to help keep these surfaces clean and rust free.
4. Store the tool in a clean and dry place away from the reach of children.

LUBRICATION

The ball bearings in the spindle and the V-belt pulley assembly are greased and permanently sealed, and require no lubrication. Pull the spindle down and oil the quill moderately every three months.

Lubricate the table bracket and locking knobs if they become difficult to use.

PRODUCT DISPOSAL

Used power tools should not be disposed of together with household waste. This product contains electronic components that should be recycled. Please take this product to your local recycling facility for responsible disposal and to minimize its environmental impact.

TROUBLESHOOTING GUIDE

⚠ WARNING! Stop using the tool immediately if any of the following problems occur. Repairs and replacements should only be performed by an authorized technician. For any questions, please contact our customer service at **1-847-429-9263**, M-F 8-5 CST or email us at **techsupport@wenproducts.com**.

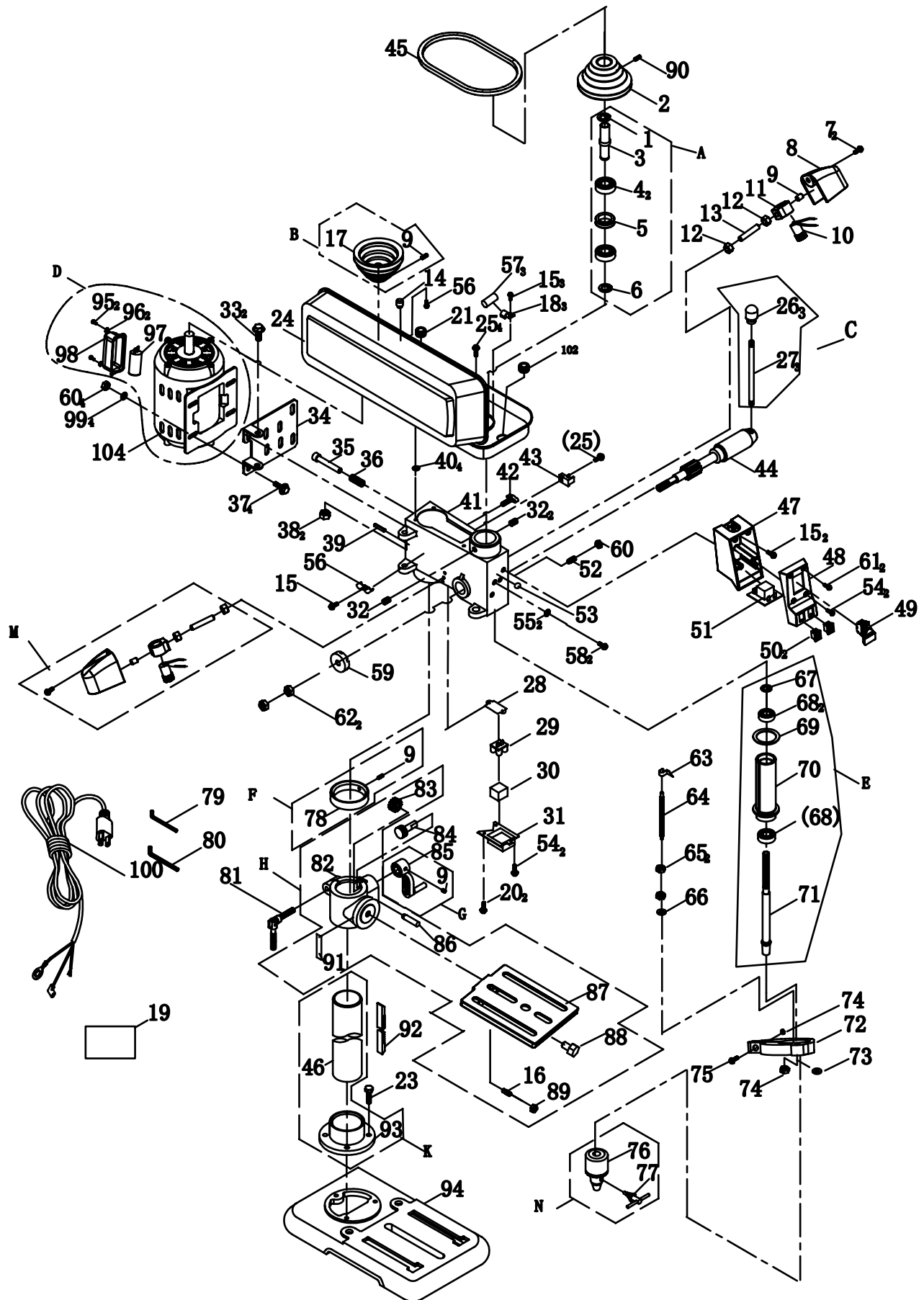
PROBLEM	CAUSE	SOLUTION
Noisy Operation or Excessive Vibration	1. Incorrect belt tension.	1. Adjust the belt tension.
	2. Dry spindle.	2. Lubricate the spindle.
	3. Loose spindle pulley.	3. Tighten the set screws on the side of the spindle pulley.
	4. Loose motor pulley.	4. Tighten the set screws on the side of the motor pulley.
	5. Seized motor pulley.	5. Lubricate the motor pulley and motor shaft; ensure that the pulley opens and closes when the machine is ON and the speed is adjusted.
The drill bit burns or smokes	1. Drilling at the incorrect speed.	1. Change the speed.
	2. The wood chips are not coming out of the hole.	2. Retract the drill bit frequently to clear the chips.
	3. Dull drill bit.	3. Resharpen or replace the drill bit.
	4. Feeding the workpiece too slowly.	4. Feed fast enough to cut the workpiece.
	5. Not lubricated.	5. Lubricate the drill bit with cutting oil or motor oil.
Excessive drill run out or wobble; drilled hole is not round	1. Bent drill bit.	1. Replace the drill bit.
	2. Bit improperly installed in the chuck.	2. Reinstall the bit.
	3. Worn spindle bearings.	3. Bearings may need replacement. Contact customer service at 1-847-429-9263 .
	4. Lengths of the cutting flutes or angles are not appropriate for the hardness of the wood grain.	4. Resharpen the drill bit correctly or replace with the appropriate type.
	5. Chuck not properly installed.	5. Reinstall the chuck.

TROUBLESHOOTING GUIDE

⚠ WARNING! Stop using the tool immediately if any of the following problems occur. Repairs and replacements should only be performed by an authorized technician. For any questions, please contact our customer service at **1-847-429-9263**, M-F 8-5 CST or email us at **techsupport@wenproducts.com**.

PROBLEM	CAUSE	SOLUTION
Drill bit binds in the workpiece	1. The workpiece is pinching the bit.	1. Support or clamp the workpiece.
	2. Excessive feed pressure.	2. Feed more slowly.
Chuck falls off spindle	1. Dirt, grease, or oil on the tapered surface on the spindle or in the chuck.	1. Clean the tapered surface of both the chuck and spindle with a household detergent.
Motor will not run	1. Defective or broken switch.	1. Contact customer service at 1-847-429-9263 .
	2. Defective or damaged power cord.	2. Contact customer service at 1-847-429-9263 .
	3. Open circuit, loose connections, or burned out motor.	3. Contact customer service at 1-847-429-9263 .
	4. Low voltage.	4. Check the power line for the proper voltage. Use another circuit or have a qualified electrician upgrade the service.
	5. Bad starting capacitor.	5. Contact customer service at 1-847-429-9263 .
Motor stalls	1. Short circuit in motor.	1. Contact customer service at 1-847-429-9263 .
	2. Incorrect fuses or circuit breakers.	2. Replace with correct fuse or circuit breaker for the circuit.
	3. Overloaded circuit.	3. Turn off other machines and retry.
	4. Low voltage.	4. Check the power line for the proper voltage. Use another circuit or have a qualified electrician upgrade the service.

EXPLODED VIEW & PARTS LIST



EXPLODED VIEW & PARTS LIST

No.	Part No.	Description	Qty.
1	DP1050-001	Circlip, 22mm	1
2	DP1050-002	Spindle Pulley	1
3	DP1050-003	Spindle Pulley Shaft	1
4	DP1050-004	Bearing, 6203-2RZ	2
5	DP1050-005	Retaining Ring	1
6	4212B-012	Circlip, 17mm	1
7	DP1050-007	Phillips Screw, M6x10	2
8	DP1050-008	Laser Cover	2
9	DP1050-009	Set Screw, M6x10	4
10	DP1050-010	Laser Assembly	2
11	4225-097	Laser Base	2
12	DP1050-012	Hex Nut, M6	4
13	4225-095	Set Screw, M6x25	2
14	DP1050-014	Cover Knob	1
15	4225-060	Phillips Screw, M5x12	6
16	DP1050-016	Positioning Pin	1
17	DP1050-017	Motor Pulley	1
18	4212B-023	Cord Clamp	2
21	4212B-026	Rubber Bushing	3
24	DP1050-024	Belt Housing	1
25	4212B-024	Phillips Screw, M6x12	1
26	4212B-027	Handle Knob	1
27	DP1050-027	Handle Rod	4
28	DP1050-028	LED Mounting Base	2
29	DP1050-029	LED Light	1
30	DP1050-030	LED Light Cover	1
31	DP1050-031	LED Base	1
32	DP1050-032	Set Screw, M8x8	4
33	DP1050-033	Flanged Hex Bolt, M8x20	2
34	DP1050-034	Motor Mounting Plate	1
35	DP1050-035	Motor Rod	4
36	DP1050-036	Compression Spring	1
37	DP1050-037	Hex Bolt, M8x18	1
38	DP1050-038	Hex Lock Nut, M8	1
39	DP1050-039	Spring Pin, 4x18	1
40	4214B-074	Gasket	1
41	DP1050-041	Head	2
42	4212B-042	Depth Locking Knob	1

No.	Part No.	Description	Qty.
43	4212B-029	Handle Fixed Piece	1
44	DP1050-044	Handle Hub	1
45	DP1050-045	V-Belt, K-30, 750x8	2
46	4225-138	Label Rivets	1
47	DP1050-047	Switch Box	1
48	DP1050-048	Switch Box Cover	1
49	4214B-032	Power Switch	4
50	4214B-033	LED / Laser Switch	2
51	DP1050-051	PCB	1
52	DP1050-052	Quill Set Screw, M8x14	3
53	DP1050-053	Ground Sticker	1
54	DP1050-054	Self-tapping Screw, ST4.2x12	4
55	4214B-084	Toothed Washer, 5mm	2
56	DP1050-056	Philips Screw with Washer, M5x12	1
57	DP1050-057	Tube, 8mm	3
58	DP1050-058	Phillips Screw, M5x6	2
59	DP1050-059	Coil Spring Assembly	1
60	4212B-083	Hex Nut, M8	5
61	DP1050-061	Self-tapping Screw, ST4.2x25	2
62	4212B-085	Hex Nut, 3/8x24UNF	2
63	DP1050-063	Pointer	1
64	DP1050-064	Depth Scale Rod	1
65	DP1050-065	Hex Nut, M10	2
66	DP1050-066	Fender Washer, 6mm	1
67	4212B-055	Circlip, 11mm	1
68	4212B-056	Bearing, 6201-2RZ	2
69	4212B-057	Rubber Washer, 40mm	1
70	DP1050-070	Quill	1
71	DP1050-071	Spindle	1
72	DP1050-072	Scale Collar	1
73	DP1050-073	Flat Washer, 6mm	1
74	4225-096	Hex Nut, M6	2
75	DP1050-075	Socket Head Cap Screw, M6x25	1
76	DP1050-076	Chuck	1

EXPLODED VIEW & PARTS LIST

No.	Part No.	Description	Qty.
77	DP1050-077	Chuck Key	1
78	DP1050-078	Rack Collar	1
79	4225-153	Hex Wrench, 3mm	1
80	4225-156	Hex Wrench, 4mm	1
81	DP1050-081	Table Locking Handle	1
82	DP1050-082	Table Support	1
83	4212B-068	Internal Gear	1
84	DP1050-084	Worm Gear	1
85	4225-127	Crank Handle	1
86	4212B-072	Inner Gear Shaft	1
87	DP1050-087	Table	1
88	DP1050-088	Hex Bolt, 1/2-12UNCx7/8	1
89	DP1050-089	Hex Nut, 1/4-24UNCx7/8	1
90	DP1050-090	Set Screw, M8x8	2
91	DP1050-091	Table Angle Scale	1
92	DP1050-092	Rack	1
93	DP1050-093	Column Base	1
94	DP1050-094	Base	1
95	DP1050-095	Philips Screw, M4x6	2
96	DP1050-096	Flat Washer, 4mm	2
97	DP1050-097	Capacitor, CD60 150uF, 125V	1
98	DP1050-098	Capacitor Housing	1
99	4212B-064	Flat Washer, 8mm	4

No.	Part No.	Description	Qty.
100	DP1050-100	Power Cord	1
N.P.	DP1050-101	Column	1
N.P.	DP1050-102	Hex Bolt. M8x20	3
N.P.	DP1050-103	Manual	1
104	DP1050-104	Motor Assembly	1
A	DP1050-ASM-A	Spindle Pulley Shaft Assembly	1
B	DP1050-ASM-B	Pulley Assembly	1
C	DP1050-ASM-C	Feed Handle Assembly	1
D	DP1050-ASM-D	Motor Assembly	1
E	DP1050-ASM-E	Spindle Assembly	1
F	DP1050-ASM-F	Collar Assembly	1
G	DP1050-ASM-G	Crank Handle Assembly	1
H	DP1050-ASM-H	Table Assembly	1
K	DP1050-ASM-K	Column Assembly	1
M	DP1050-ASM-M	Laser Assembly	2
N	DP1050-ASM-N	Chuck and Key Assembly	1

NOTE: Not all parts may be available for purchase. Parts and accessories that wear down over the course of normal use are not covered under the warranty.

WARRANTY STATEMENT

WEN Products is committed to building tools that are dependable for years. Our warranties are consistent with this commitment and our dedication to quality.

LIMITED WARRANTY OF WEN CONSUMER POWER TOOLS PRODUCTS FOR HOME USE

GREAT LAKES TECHNOLOGIES, LLC (“Seller”) warrants to the original purchaser only, that all WEN consumer power tools will be free from defects in material or workmanship for a period of two (2) years from date of purchase. Ninety days for all WEN products if the tool is used for professional or commercial use.

SELLER’S SOLE OBLIGATION AND YOUR EXCLUSIVE REMEDY under this Limited Warranty and, to the extent permitted by law, any warranty or condition implied by law, shall be the repair or replacement of parts, without charge, which are defective in material or workmanship and which have not been misused, carelessly handled, or misrepaired by persons other than Seller or Authorized Service Center. To make a claim under this Limited Warranty, you must make sure to keep a copy of your proof of purchase that clearly defines the Date of Purchase (month and year) and the Place of Purchase. Place of purchase must be a direct vendor of Great Lakes Technologies, LLC. Third party vendors such as garage sales, pawn shops, resale shops, or any other secondhand merchant void the warranty included with this product. Contact techsupport@wenproducts.com or 1-847-429-9263 to make arrangements for repairs and transportation.

When returning a product for warranty service, the shipping charges must be prepaid by the purchaser. The product must be shipped in its original container (or an equivalent), properly packed to withstand the hazards of shipment. The product must be fully insured with a copy of the warranty card and/or the proof of purchase enclosed. There must also be a description of the problem in order to help our repairs department diagnose and fix the issue. Repairs will be made and the product will be returned and shipped back to the purchaser at no charge.

THIS LIMITED WARRANTY DOES NOT APPLY TO ACCESSORY ITEMS THAT WEAR OUT FROM REGULAR USAGE OVER TIME INCLUDING BELTS, BRUSHES, BLADES, ETC. ANY IMPLIED WARRANTIES SHALL BE LIMITED IN DURATION TO TWO (2) YEARS FROM DATE OF PURCHASE. SOME STATES IN THE U.S., SOME CANADIAN PROVINCES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

IN NO EVENT SHALL SELLER BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING BUT NOT LIMITED TO LIABILITY FOR LOSS OF PROFITS) ARISING FROM THE SALE OR USE OF THIS PRODUCT. SOME STATES IN THE U.S. AND SOME CANADIAN PROVINCES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE IN THE U.S., PROVINCE TO PROVINCE IN CANADA AND FROM COUNTRY TO COUNTRY.

THIS LIMITED WARRANTY APPLIES ONLY TO PORTABLE ELECTRIC TOOLS, BENCH POWER TOOLS, OUTDOOR POWER EQUIPMENT AND PNEUMATIC TOOLS SOLD WITHIN THE UNITED STATES OF AMERICA, CANADA AND THE COMMONWEALTH OF PUERTO RICO. FOR WARRANTY COVERAGE WITHIN OTHER COUNTRIES, CONTACT THE WEN CUSTOMER SUPPORT LINE.

**THANKS FOR
REMEMBERING**

