

OPERATOR'S MANUAL

10" Variable Speed Drill Press with Laser Crosshair

Model # 4212

A IMPORTANT:

Your new tool has been engineered and manufactured to WEN's[®] high standards for dependability, ease of operation, and operator safety. Properly cared for, it will give 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 only for what it is intended, you will enjoy years of safe, reliable service.



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Technical data

10" Variable Speed Drill Press

Motor:	120 V, 60 Hz, 3.1 A
Speed:	530–3100 RPM (no load)
Chuck capacity:	1/2"
Stroke:	2-5/16"
Capacity:	5" (chuck to column)
Laser module: Laser wavelength: Laser output: Overall height: Table size: Table tilt: Weight:	19-1/2"(chuck to base) Class II 660 nm 1 mW 33-3/4" 7-5/8x7-1/2" 0 to 45 °left and right 55 lb

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Model # 4212

General safety rules

Safety is a combination of common sense, staying alert, and knowing how your drill press works. SAVE THESE SAFETY INSTRUCTIONS.



WARNING: To avoid mistakes that could cause serious injury, do not plug in the drill press until the following steps have been read and understood.

- 1. READ and become familiar with this entire instruction manual. LEARN the tool's applications, limitations, and possible hazards.
- 2. AVOID DANGEROUS CONDITIONS. Do not use power tools in wet or damp areas or expose them to rain. Keep work areas well-lit.
- 3. DO NOT use power tools in the presence of flammable liquids or gases.
- 4. ALWAYS keep your work area clean, uncluttered, and well-lit. DO NOT work on floor surfaces that are slippery.
- 5. KEEP BYSTANDERS AT A SAFE DISTANCE from the work area, especially when the tool is operating. NEVER allow children or pets near the tool.
- 6. DO NOT FORCE THE TOOL to do a job that it was not designed to do.
- 7. DRESS FOR SAFETY. Do not wear loose clothing, gloves, neckties, or jewelry (rings, watches, etc.) when operating the tool. Inappropriate clothing and items can get caught in moving parts and draw you in. ALWAYS wear non-slip footwear and tie back long hair.
- 8. WEAR A FACE MASK OR DUST MASK as the drilling operation produces dust.

WARNING: Dust generated from certain materials can be hazardous to your health. Always operate this tool in a well-ventilated area and provide for proper dust removal. Use dust collection systems whenever possible.

- 9. ALWAYS remove the power cord plug from the electrical outlet when making adjustments, changing parts, cleaning, or working on the tool.
- 10. KEEP GUARDS IN PLACE AND IN WORKING ORDER.
- 11. AVOID ACCIDENTAL START-UPS. Make sure the power switch is in the OFF position before plugging in the power cord.
- 12. REMOVE ADJUSTMENT TOOLS. Always make sure all adjustment tools are removed from the drill press before turning it on.

General safety rules (continued)

- 13. NEVER LEAVE A RUNNING TOOL UNATTENDED. Turn the power switch to OFF. Do not leave the tool until it has come to a complete stop.
- 14. NEVER STAND ON A TOOL. Serious injury could result if the tool tips or is accidentally hit. DO NOT store anything above or near the tool.
- 15. DO NOT OVERREACH. Keep proper footing and balance at all times. Wear oil-resistant rubbersoled footwear. Keep the floor clear of oil, scrap, and other debris.
- 16. MAINTAIN TOOLS PROPERLY. ALWAYS keep tools clean and in good working order. Follow instructions for lubricating and changing accessories.
- 17. CHECK FOR DAMAGED PARTS. Check for alignment of moving parts, jamming, breakage, improper mounting, or any other conditions that may affect the tool's operation. Any part that is damaged should be properly repaired or replaced before use.
- 18. MAKE THE WORKSHOP CHILDPROOF. Use padlocks and master switches and ALWAYS remove starter keys.
- 19. DO NOT operate the tool if you are under the influence of drugs, alcohol, or medication that could affect your ability to use the tool properly.

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20. USE SAFETY GOGGLES AT ALL TIMES—that comply with ANSI Z87.1. Normal safety glasses only have impact resistant lenses and are not designed for safety. Wear a face or dust mask when working in a dusty environment. Use ear protection, such as plugs or muffs, during extended periods of operation.



Specific safety rules for the drill press



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

- 1. Never turn the drill press on until the table is clear of all foreign objects (tools, scraps, etc.).
- 2. Always keep hands and fingers away from the drill bit.
- 3. Do not drill materials that do not have a flat surface—unless a suitable support is used (clamp or vise).
- 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 drill press.
- 6. Never layout, assemble, or set-up any work on the table while the drill is on.
- 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 a workpiece to the table. This will prevent the workpiece from rotating with the drill bit.
- 12. Do not wear gloves when operating a drill press.
- 13. Set the drill press to the speed that is appropriate for the material being drilled.
- 14. Should any part of the drill press be missing, damaged, or any electrical component fail to perform properly, shut the power OFF and unplug the drill press. Replace missing, damaged, or failed parts before resuming operation.

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15. Before leaving the machine, shut the power off, remove the drill bit, and clean the table.

Electrical information

Grounding instructions

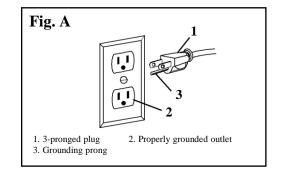
IN THE EVENT OF A MALFUNCTION OR BREAKDOWN, grounding provides the path of least resistance for electric current and reduces the risk of electric shock. This tool is equipped with an electric cord that has an equipment grounding conductor and a grounding plug. The plug MUST be plugged into a matching outlet that is properly installed and grounded in accordance with ALL local codes and ordinances.

DO NOT MODIFY THE PLUG PROVIDED. If it will not fit the outlet, have the proper outlet installed by a licensed electrician.

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.

CHECK with a licensed electrician or service personnel if you do not completely understand the grounding instructions, or if you are not sure if the tool is properly grounded.

USE ONLY THREE-WIRE EXTENSION CORDS that have 3-pronged plugs and outlets that accept the tool's plug as shown in Fig. A. 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 if it is, have a licensed electrician check the outlet.

Electrical information (continued)

WARNING: This drill press is for indoor use only. Do not expose to rain or use in damp locations.

Guidelines for using extension cords

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

Minimum Gauge for Extension Cords (AWG)

(when using 120 V only)

Aı	Ampere rating		Total length of con	rd in feet (meters)	
More than	Not more than	25 (7.6)	50 (15)	100 (30.4)	150 (45.7)
0	6	18	16	16	14
6	10	18	16	14	12
10	12	16	16	14	12
12	16	14	12	Not recon	nmended

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.

Protect your extension cords from sharp objects, excessive heat and damp or wet areas.

Use a separate electrical circuit for your tools. This circuit must not be less than a #12 wire and should be protected with a 15 A 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.

WARNING: This tool must be grounded while in use to protect the operator from electric shock.

Know your drill press





- 1 Speed control handle
- 2 Support lock handle
- 3 Table
- 4 Base
- 5 ON/OFF Switch
- 6 Safety key
- 7 Digital speed readout
- 8 Chuck

- 9 Feed handle
- 10 Column
- 11 Rack
- 12 Crank handle
- 13 Housing cover screw

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14 Laser ON/OFF switch

Assembly and adjustments

Unpacking

Unpack the drill press and all its parts, and compare against the list below. Do not discard the carton or any packaging until the drill press is completely assembled.

To protect the drill press from moisture, a protective coating has been applied to the machined surfaces. Remove this coating with a soft cloth moistened with kerosene or WD-40[®]. Do not use acetone, gasoline, or lacquer thinner to clean. Apply a coat of good paste wax to the table and column. Wipe all parts with a clean dry cloth.

Head/motor assembly Column assembly and table bracket Table Worm shaft Base Chuck arbor Chuck and key Table lock handles Hex head bolts (4) Table crank handle Hex keys (2) Feed and speed handles (4) AA batteries (2)



WARNING: If any part is missing or damaged, do not plug the drill press in until the missing or damaged part is repaired or replaced, and assembly is complete.

The column assembly (column, column support, rack, rack collar, and table support bracket) must be attached to the base. The table and table support handles must be attached to the table support bracket. The motor housing must be attached to the column.

Tools needed for assembly

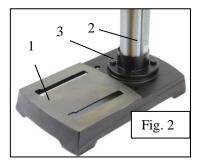
- Adjustable wrench
- Screwdriver
- Hammer and block of wood

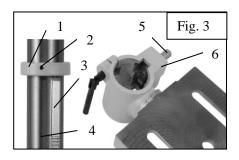
Base to column (Fig. 2)

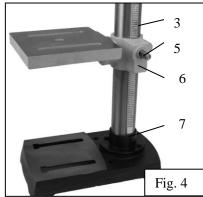
- 1. Set the base (1) on the floor.
- 2. Place the column tube (2) on the base (1), align the column support holes with the base holes.
- 3. Install a bolt (3) in each column support hole and tighten with the wrench.

Table to column (Fig. 3–5)

- 1. Loosen set screw (2) in rack collar (1) and remove the collar.
- 2. Remove the rack (3) from the column (4).
- 3. Insert worm shaft (5) into the hole of the table support crank handle (6) from inside the table support. The worm shaft (5) should extend outside the housing about 1" (25 mm).
- 4. Insert the rack (3) into the geared groove of the table support (6). Make sure the worm shaft (5) on the inside of the table support is engaged with the teeth of the rack. The table support should sit at the center of the rack.
- 5. Slide the table support and rack assembly (3, 5, and 6) down together onto the column. Insert the bottom edge of the rack into the lip (7) of the column support. Hold in this position until step 6 is completed.
- 6. Place the collar (1) bevel side down over the rack. Tighten the set screw (2) with the 3 mm Allen wrench to hold the rack in position. (Fig. 3)







Note: Make sure there is enough clearance to allow the table to rotate around the column. The collar must sit loosely over rack and not angled on the column. To avoid column or collar damage, only tighten the set screw enough to keep collar in place (Fig. 3).

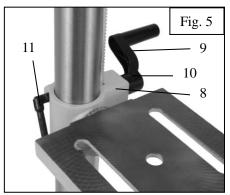
- 7. Insert the table support crank handle (9) into the worm gear shaft on the side of the table support (8). Make sure the set screw (10) is aligned on the flat of the shaft and as close to the table support as possible. Tighten the set screw (Fig. 7).
- 8. Position the table in the same direction as the base, and tighten the column lock handle (11).

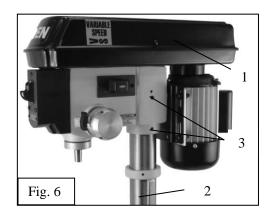
Drill press head to column (Fig. 6)

- 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 (2). Make sure the head is seated properly on the column.
- 2. Align the direction of the drill press head to the direction of the base and the table.
- 3. Tighten the two set screws (3) using an Allen wrench.

Feed handles (Fig. 7)

- 1. Insert the three feed handles (1) into the threaded openings on the feed hub (2).
- 2. Manually tighten handles into openings.
 - Note: When using the drill press, one or two of the feed handles may be removed if an unusually-shaped workpiece interferes with handle rotation.







Speed handle (Fig. 8)

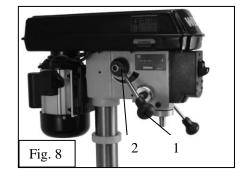
- 1. Insert the feed handle (1) into the threaded opening on the speed hub (2).
- 2. Manually tighten handle into opening.

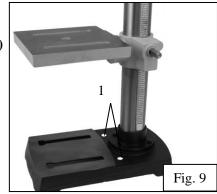
Warning: Do not change speed without turn on the machine.

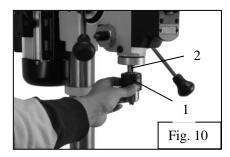
Mount the drill press (Fig. 9)

The drill press must be securely fastened through the mounting holes (1) to a stand or workbench with heavy duty fasteners. This will prevent the drill press from tipping over, sliding, or walking during operation.

IMPORTANT: If the stand or workbench has a tendency to move during operation, fasten the workbench securely to the floor.







Chuck adjustments

Install the chuck (Fig. 10)

- 1. Inspect and clean the taper hole in the chuck (1) 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 manually turning the chuck barrel clockwise. Make sure the jaws are completely recessed inside the chuck.
- 3. Insert the chuck arbor (2) into the opening at the top of the chuck (1).
- 4. Seat the chuck and chuck arbor on the spindle by placing a block of wood (not included) under the chuck (1) and tapping the wood with a hammer (not included) or tap the chuck with a rubber mallet (not included).

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

Remove the chuck

1. Turn the feed handles to lower the chuck to the lowest position.

2. Place a ball joint separator above the chuck and tap it lightly with a hammer to cause the chuck to drop from the spindle.

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

Table adjustments

Raise or lower the table (Fig. 11)

- 1. Loosen the support lock handle (1) and turn the crank handle (2) until the table is at the desired height.
- 2. Tighten the support lock handle (1) before drilling.

Rotate the table (Fig. 11)

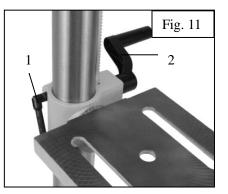
- 1. Loosen the support lock handle (1) and turn the table around the column to the desired position.
 - Note: The rack should rotate around the column with the table support bracket. If the rack binds and will not rotate, slightly loosen the set screw in the rack collar.

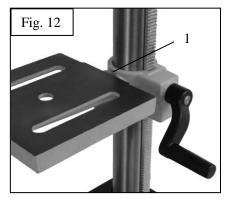
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2. Tighten the support lock before drilling.

Tilt the table (Fig. 12)

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





Laser batteries (Fig. 13)

1. Turn off the laser.

2. Press the tab (1) located below the laser switch (2) and lift up the laser switch cover (3).

- 3. Insert 2 "AA" batteries in the laser battery compartment.
- 4. Close the laser switch cover.

Fig. 13

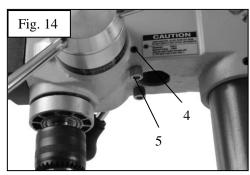
Laser line (Fig. 14)

WARNING: Do not stare directly at the laser beam! A hazard may exist if you deliberately stare into the beam. Please observe all safety rules.

- Never aim the beam at any person or an object other than the workpiece.
- Do not project the laser beam into the eyes of others.
- Always make sure the laser beam is aimed at a workpiece that does not possess reflective surfaces as the laser beam could be projected into your eyes or the eyes of others.

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- 1. Place a workpiece on the table.
- 2. Turn the laser switch to the ON position.
- 3. Lower the drill bit to meet the workpiece. The two laser lines should cross where the drill meets the workpiece.
- 4. If the laser needs to be adjusted:
 - a. Using a 3 mm hex key, turn the laser adjustment set screws (4) counterclockwise.
 - b. Rotate the laser light housing (5) until the two laser lines intersect where the drill meets the workpiece. DO NOT stare directly at the laser lines.



5. Re-tighten the adjustment set screws (4).

Spindle return spring (Fig. 15)

The spindle is equipped with an auto-return mechanism. The main components are a spring and a notched housing. The spring was properly adjusted at the factory and should not be readjusted unless absolutely necessary.

- 1. Unplug the drill press.
- 2. Place a screwdriver into the loop (1) to hold the spring in place.
- 3. Loosen the two housing nuts (3) approximately 1/4" (6 mm). Do not remove the nuts from the threaded shaft. Do not allow the spring or spring housing to slip out of control.
- 4. While firmly holding the spring housing (4), carefully pull the spring housing out until it clears the raised notch (2).
- 5. Turn the housing so that the next notch is engaged with the raised notch (2).
 - To increase the spindle return tension, turn the spring housing counter-clockwise.
 - To decrease the tension, turn the spring housing clockwise.
- 6. Tighten the two housing nuts. Do not overtighten the two nuts. If the nuts are tightened too much, the movement of the spindle and feed handles will become sluggish.

Angular "play" of the spindle (Fig. 15)

Move the spindle to the lowest downward position and hold in place.

Try to make the spindle revolve around its axis while also moving it with a side motion. If there is too much "play", proceed as follows:

- 1. Loosen the lock nut (5).
- 2. Without obstructing the upward and downward motion of the spindle, turn the screw (6) clockwise to eliminate the "play". Note: A little bit of "play" is normal.
- 3. Tighten the lock nut (5).

Drilling depth (Fig. 16)

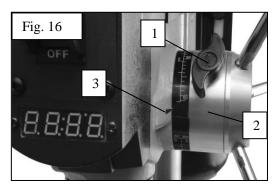
1. To stop the drill at a specific depth for consistent and repetitive drilling, loosen the depth scale lock (1) located on the depth scale hub (2).

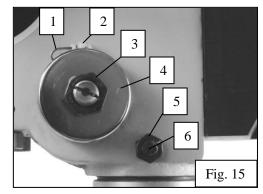
2. Turn the hub until the pointer (3) is aligned to the desired depth on the scale.

3. Tighten the depth scale lock (1). The chuck will stop after traveling downward to the distance selected.

Note: All the necessary adjustments for the working of your drill

press have been done at the factory. Please do not modify them. However, because of normal wear and tear of your tool, some readjustments might be necessary.

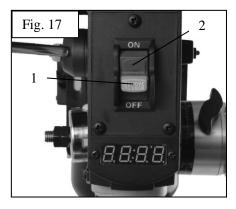




Operation

Drill Press ON/OFF switch (Fig. 17)

- 1. To turn the drill press ON, insert the yellow safety key (1) into the switch housing. As a safety feature, the switch cannot be turned ON without the safety key.
- 2. Flip the switch (2) upward to the ON position.
- 3. To turn the drill press OFF, press the switch downward.
- 4. To lock the switch in the OFF position, remove the safety key (1) from the switch. Store the safety key in a safe place.



Position the table and workpiece

Always place a piece of backup material (wood, plywood, etc.) on the table underneath the workpiece (2). This will prevent splintering on the underside of the workpiece as the drill bit breaks through. To keep the material from spinning out of control, it must contact the left side of the column, or be clamped to the table.

General drilling guidelines

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 backup material to the table. Failure to do this could result in personal injury.

Drill a hole

- 1. Mark where you want to drill in workpiece by using a center punch or a sharp nail or turn ON Laser Line to mark drilling point.
- 2. Before turning ON the drill press, 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 ON the drill press and pull down on the feed handles with appropriate force needed to allow the drill bit to drill 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.

Operation (continued)

Drilling speeds

Important factors when determining the best drilling speed:

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

Smaller drill bits require greater speed than large drill bits. Softer materials require greater speed than harder materials. See page 23 for recommended speeds for the workpiece material.

Drilling metal

- Use metal-piercing twist drill bits.
- It is always necessary to lubricate the tip of the drill with oil to prevent overheating 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 drill bit slowly when 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.

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• Feeding too slowly will cause the drill bit to heat up and burn the workpiece.

Operation (continued)

Mechanical variable speed (Fig. 18)

This is a mechanical variable speed drill press. To increase or decrease the speed when operating, raise or lower the speed handle (1).

Use the following table to determine the recommended speed for the drill size you are using and the type of material you are to drill. While drilling, check the speed on the digital speed readout (2) located at the front of the drill press.

Warning: Do not change speed without turn on the machine.



Fig. 18

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Recommended speed for drill bit size and materials

SPEED RANGE		OD vit size		ZINC / BRASS	IRON / S Drill bit	
(RPM)	inches	mm	inches	mm	inches	mm
2000–3100	3/8	9.5	7/32	5.6	3/32	2.4
1400–2000	5/8	16.0	11/32	8.75	5/32	4.0
1000-1400	7/8	22.0	15/32	12.0	1/4	6.4
800-1000	1 1/4	31.75	11/16	17.5	3/8	9.5
530-800	1 5/8	41.4	3/4	19.0	5/8	16.0

Maintenance



WARNING: For your safety, turn the switch off and remove the plug from the power supply before maintaining or lubricating the drill press.

Vacuum sawdust or metal shavings that accumulates in and on the motor, pulley housing, table, and work surface.

Apply a light coat of paste wax to the column and table to help keep these surfaces clean and rust-free.

The ball bearings in the spindle and the V-belt pulley assembly are greased and permanently sealed. Pull the spindle down and oil the spindle sleeve moderately every three months.

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

CAUTION: All servicing of the drill press should be performed by a qualified service technician.

Troubleshooting

PROBLEM	PROBABLE CAUSE	REMEDY
Noisy operation	 Incorrect belt tension. Dry spindle. Loose spindle pulley. Loose motor pulley. 	 Adjust the belt tension. See To replace the belt in Adjustments. Lubricate the spindle. See Maintenance. Tighten the retaining nut on the pulley insert. Tighten the set screw on the side of the motor pulley.
The drill bit burns or smokes.	 Drilling at the incorrect speed. The wood chips are not coming out of the hole. Dull drill bit. Feeding the workpiece too slowly. Not lubricated. 	 Change the speed. See Variable speed in Operation. Retract the drill bit frequently to clear the chips. Resharpen or replace the drill bit. Feed fast enough to cut the workpiece. See To drill a hole in Operation. Lubricate the drill bit with cutting oil or motor oil.
Excessive drill run-out or wobble, drilled hole is not round.	 Bent drill bit. Bit improperly installed in the chuck. Worn spindle bearings. Lengths of cutting flutes or angles not appropriate for the hardness of the wood grain. Chuck not properly installed. 	 Replace the drill bit. Reinstall the bit. See To install drill bits in Adjustments. Replace bearings. Take to a qualified service technician. Resharpen the drill bit correctly or replace with the appropriate type. Reinstall the chuck. See To install the chuck in Assembly.
Drill bit binds in the workpiece.	 The workpiece is pinching the bit. Excessive feed pressure. 	 Support or clamp the workpiece. See Position the table and workpiece in Operation. Feed more slowly. See Feeding the drill bit in Operation.
Spindle returns too slowly or too quickly.	1. Spring has improper tension.	• Adjust the spring tension. See Spindle return spring in Adjustments.
Chuck falls off spindle.	1. Dirt, grease, or oil on the tapered surface on the spindle or in the chuck.	• Clean the tapered surface of both the chuck and the spindle with a household detergent. See To install the chuck in Assembly.

Troubleshooting (continued)

PROBLEM	PROBABLE CAUSE	REMEDY
The workpiece splinters on the underside.	 No backup material under the workpiece. 	• Always use a backup material. See Position the table and workpiece in Operation.
The workpiece is slipping from your hand.	 Not supported or clamped properly. 	• Support workpiece using extension wing or clamps. See Position the table and workpiece in Operation.
Motor will not run.	 Defective or broken switch. Defective or damaged power cord. Open circuit, loose connections, or burned out motor. Blown fuse or circuit breaker. 	 Take to a qualified service technician. Take to a qualified service technician. Take to a qualified service technician.
	5. Low voltage.	 Replace fuse or reset circuit breaker. Turn off other machines on the same circuit. Check the power line for the proper voltage. Use another circuit or have a qualified electrician upgrade the service.
Motor will not start and fuses or circuit breakers blow.	 Short circuit in motor or power cord. Incorrect fuses or circuit breakers. 	 Take to a qualified service technician. Replace with correct fuse or circuit breaker for the circuit.
Motor fails to reach full power.	 Overloaded circuit. Improper extension cord. 	 Turn off other machines and retry. Replace with proper size extension cord. See Electrical information.
Motor stalls.	 Short circuit in motor. Incorrect fuses or circuit breakers. Overloaded circuit. Low voltage. 	 Take to a qualified service technician. Replace with correct fuse or circuit breaker for the circuit. Turn off other machines and retry. Check the power line for the proper voltage. Use another circuit or have a qualified electrician upgrade the service.

Replacement parts

Service Information

Now that you have purchased your bench top power tool, should a need ever exist for service, simply call Great Lakes Technologies, LLC Service Department at (800) 232-1195 M-F 8-5 CST. Be sure to provide all pertinent facts when you call or visit.

Replacement Parts

Use only WEN® replacement parts. Use of any other parts may cause damage to your machine. When ordering replacement parts, please provide the model number, part number, and description.

Parts list

Item	Stock #	Description
1	4212-001	Column
2	4212-002	Rack
3	4212-003	Column support
4	4212-004	Base
5	4212-005	Screw M8x20
6	4212-006	Crank handle
7	4212-007	Pin
8	4212-008	Screw M12x25
9	4212-009	Table
10	4212-010	Table support
11	4212-011	Lock handle
12	4212-012	Gear wheel
13	4212-013	Worm shaft
14	4212-014	Collar
15	4212-015	Screw M8x10
16	4212-016	Bearing
17	4212-017	Spindle
19	4212-019	Chuck
20	4212-020	Quill
21	4212-021	Attachment
22	4212-022	Attachment washer
23	4212-023	Screw
24	4212-024	Screw
25	4212-025	Speed readout
26	4212-026	Switch
27	4212-027	Screw M5x14
28	4212-028	Switching box
29	4212-029	Screw M5x6
30	4212-030	Washer
31	4212-031	Head
32	4212-032	Depth scale hub
33	4212-033	Shaft
34	4212-034	Spring rivet
35	4212-035	Hub
36	4212-036	Handle
37	4212-037	Wing nut
38	4212-038	Stopper
39	4212-039	Screw M8x8
40	4212-040	Buckling ring

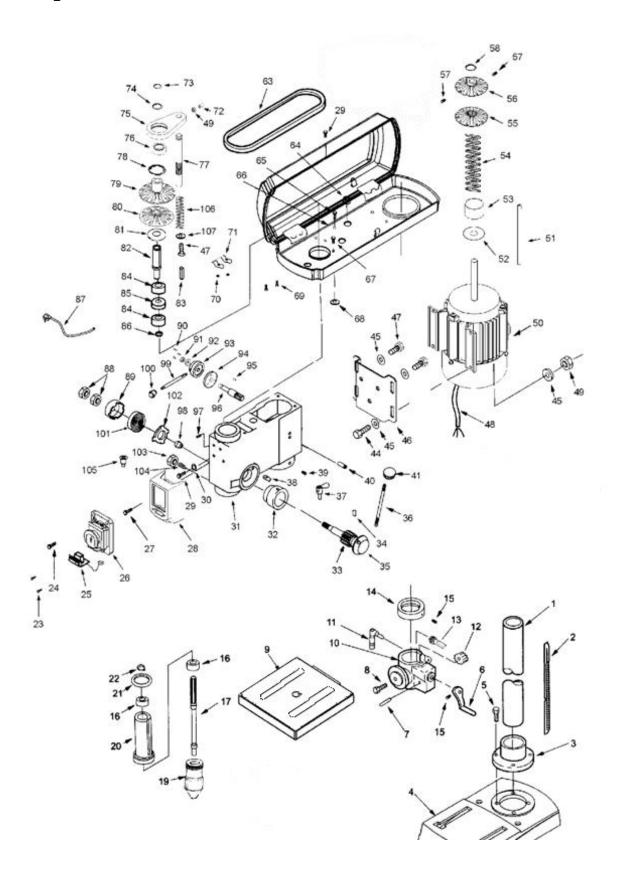
Item	Stock #	Description
41	4212-041	Knob
44	4212-044	Screw M8x25
45	4212-045	Washer
46	4212-046	Retaining plate
47	4212-047	Screw M8x12
48	4212-048	Motor cable
49	4212-049	Nut M8
50	4212-050	Motor
51	4212-051	Gasket
52	4212-052	Spring holder
53	4212-053	Spring guide bushing
54	4212-054	Spring
55	4212-055	Pulley
56	4212-056	Keep roller
57	4212-057	ScrewM6x8
58	4212-058	Washer
63	4212-063	Driving belt
64	4212-064	Rubber plug
65	4212-065	Screw M5x10
66	4212-066	Belt cover
67	4212-067	Screw M6x8
68	4212-068	Foam washer
69	4212-069	Screw
70	4212-070	Nut M5
71	4212-071	Cable terminals
72	4212-072	ScrewM8x20
73	4212-073	Washer
74	4212-074	Washer
75	4212-075	Retaining plate
76	4212-076	Ball Bearing
77	4212-077	Shaft
78	4212-078	Washer
79	4212-079	Pulley
80	4212-080	Keep roller
81	4212-081	Sleeve
82	4212-082	Shaft
83	4212-083	Spring rivet
84	4212-084	Ball Bearing
85	4212-085	Sleeve

Parts list (continued)

Item	Stock #	Description
86	4212-086	Sleeve
87	4212-087	Power cord
88	4212-088	Nut M12
89	4212-089	Spring cover
90	4212-090	Screw M5x12
91	4212-091	Nut M10
92	4212-092	Split washer
93	4212-093	Hub
94	4212-094	Fixing plate
95	4212-095	Lock pin
96	4212-096	Shaft

Item	Stock #	Description
97	4212-097	Screw M8x8
98	4212-098	Plain key
99	4212-099	Speed handle
100	4212-100	Knob
101	4212-101	Coil spring
102	4212-102	Compressed spring tool
103	4212-103	Nut M8
104	4212-104	Screw
105	4212-105	Cable bushing
106	4212-106	Spring
107	4212-107	Washer

Exploded view



Two years limited warranty

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

TWO (2) YEARS LIMITED WARRANTY OF WEN 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 (90) 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 Two (2) Years 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 return the entire power tool product; transportation prepaid, to Great Lakes Technologies, LLC-1675 Holmes Road, Elgin IL 60123. Include a legible copy of the original receipt, which lists the date of purchase (month and year) and the name of the company purchased from.

THIS LIMITED WARRANTY DOES NOT APPLY TO ANY ACCESSORY ITEMS INCLUDED WITH THE TOOL SUCH AS CIRCULAR SAW BLADES OTHER RELATED ITEMS OR TO ANY REPLACEMENT PARTS LISTED UNDER MAINTENANCE.

ANY IMPLIED WARRANTIES SHALL BE LIMITED IN DURATION TO TWO (2) YEARS FROM DATE OF PURCHASE. SOME STATES IN THE U.S. AND 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 WEN CUSTOMER SUPPORT.

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For questions / comments, technical assistance or repair parts – Please Call Toll Free at: 1-800-232-1195 (M-F 8am – 5pm) CST

SAVE YOUR RECEIPTS. THIS WARRANTY IS VOID WITHOUT THEM.

