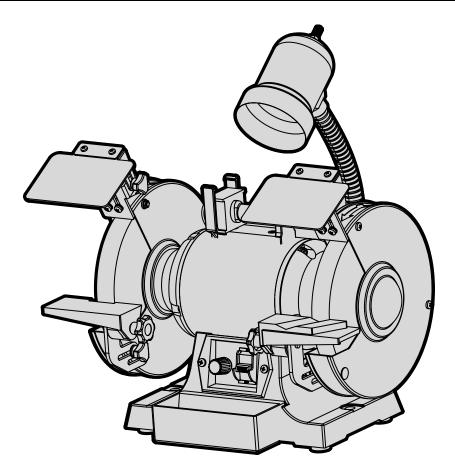


MODEL 4280, BG4280

8-INCH VARIABLE SPEED BENCH GRINDER

Instruction Manual



NEED HELP? CONTACT US!

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



1-800-232-1195 (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.

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

Cast Iron Bench Grinder Stand (Model 4288T)

INTRODUCTION

Thanks for purchasing the WEN Bench Grinder. 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 **1-800-232-1195**.

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	4280, BG4280
Motor	120V, 60 Hz, 5A
Wheel Speed	2000 - 3400 RPM
Grinding Wheel Size	8 in. x 1 in,
Arbor Size	5/8 Inch
Arbor Thread	M16-2.0
Wheel Grits	#36 and #80
Product Weight	41 Pounds
Product Dimensions	17 in. x 18.1 in. x 13 in.

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.

BENCH GRINDER SAFETY WARNINGS

WARNING! Do not operate the power tool until you have read and understood the following instructions and the warning labels.

BENCH GRINDER SAFETY

1. This bench grinder is designed for sharpening and honing cutting tools, using the appropriate accessories. 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. Grinding wheel safety:

- Only use grinding wheels rated for a speed higher than 3450 RPM (maximum RPM of the tool).
- Inspect wheels for cracks or fragments before starting the machine. Replace damaged wheels immediately. Never use a questionable grinding wheel, as the RPM of the machine can send broken wheel fragments flying at high speeds.
- Do not use a wheel that vibrates. If a wheel vibrates, it may be that the bearings of the shaft need replacing.
- Check that the grinding stone can rotate smoothly before starting the machine.
- The grinding wheel is for grinding. Never attempt to cut anything with the grinding wheel.
- 3. The use of accessories or attachments not recommended by the manufacturer may result in a risk of personal injury.
- 4. **DANGER! Fire Hazard.** Do not grind or polish magnesium or magnesium alloys.
- 5. 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, adjustments, assembly, setup operations, or when not in use.

PERSONAL SAFETY

- 1. Operate in a well ventilated area. Keep the floor area around the bench grinder level and free of slippery substances or other tripping hazards.
- 2. Wear ANSI-approved safety goggles to protect your eyes from sparks and chips. Use hearing protection to protect yourself from hearing loss.

- 3. DO NOT wear loose clothing or jewelry as they might get drawn in by the tool. Tie back long hair.
- 4. People with pacemakers should consult their physician(s) before use. Electromagnetic fields in close proximity to pacemakers could cause pacemaker interference or pacemaker failure.
- 5. Chips are harmful to your health. Use NIOSH-approved dust masks or other respiratory protection during operation and cleaning.
- 6. Always turn off and unplug the bench grinder before making any adjustments or repair tasks. Never adjust the bench grinder or the workpiece while the tool is running.

PREPARING THE BENCH GRINDER

When transporting the bench grinder, carry it by the base. Never carry the device by its guards or its accessories.

- 1. Examine the bench grinder for any damaged or missing parts. Replace or repair damaged parts before operation. Periodically check that all nuts, bolts and other fasteners are properly tightened.
- 2. Do not operate this tool until it is completely assembled and installed according to the instructions. Make sure all adjustments are correct and all connections are tight. Keep all guards in place.

DURING OPERATION

- 1. Never start the machine with any load already applied to either grinding wheel. Stand to the side of the bench grinder during start-up. Switch it ON and let the bench grinder reach full speed for roughly one minute to warm up the wheel and to ensure proper operation.
- 2. Never grind on a cold wheel. Run the bench grinder for one full minute before applying the workpiece. Cold wheels have an increased likelihood of chipping during operation.
- 3. Only grind on the face of the grinding wheel. Do not grind on the side of the wheel.

BENCH GRINDER SAFETY WARNINGS

WARNING! Do not operate the power tool until you have read and understood the following instructions and the warning labels.

DURING OPERATION (CONT.)

- 4. Keep clear of moving parts. Keep arms, hands and other vital appendages away from the grinding and honing wheel. Do not reach behind or beneath the rotating wheel. Avoid awkward operation and hand positions. An accident could easily send the operator's hand into the wheel.
- 5. If you are interrupted when operating the bench grinder, complete the process and switch the bench grinder off before looking up.
- 6. Always hold the workpiece firmly against the tool rest.
- 7. Never attempt to cut anything with the grinding wheel.
- 8. Do not use the bench grinder unless all guards are in place. Do not operate with any guard disabled, damaged, or removed. Moving guards must move freely and close instantly.

- 9. Disconnect the power source and allow the wheels to come to a complete stop before making any adjustments to either the machine or the grinding wheels.
- 10. Clean the machine thoroughly when changing material types in workpieces. Combining certain materials can increase the chances of an explosion or fire hazard.
- 11. Should any component of your bench grinder be missing/damaged or fail in any way, shut off the switch and remove the plug from power supply outlet. Have a certified technician replace the missing, damaged, or failed parts using only identical replacement parts before resuming operation.

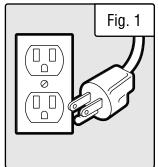
ELECTRICAL INFORMATION

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 (INSERT CR). Repair or replace a damaged or worn cord immediately.





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	REQ	UIRED GAUGE FOR E	XTENSION CORDS	3
AWIFERAGE	25 ft.	50 ft.	100 ft.	150 ft.
5A	18 gauge	16 gauge	16 gauge	14 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.

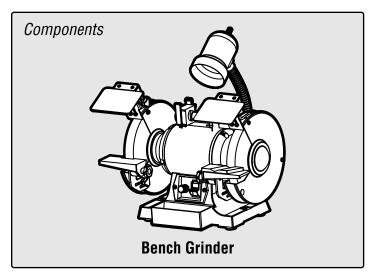
UNPACKING & PACKING LIST

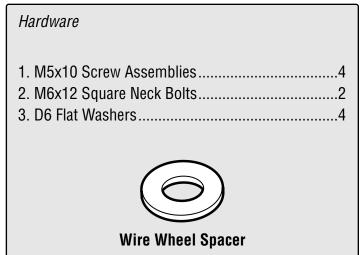
WARNING! Do not plug in or turn on the tool until it is fully assembled according to the instructions. Failure to follow the safety instructions may result in serious personal injury.

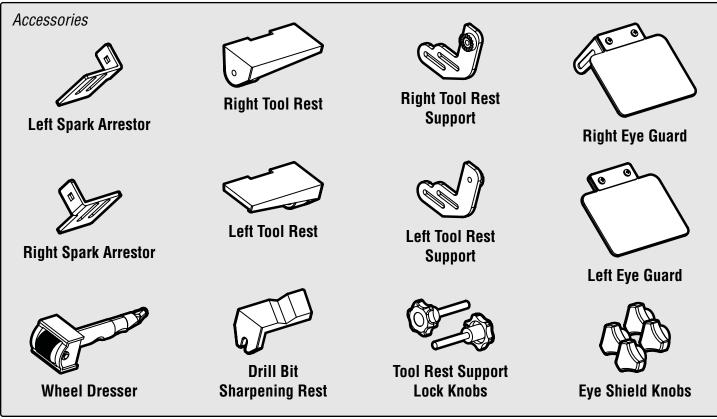
UNPACKING

With the help of a friend or trustworthy foe, carefully remove the Bench Grinder from the packaging. Make sure to take out all contents and accessories. Do not discard the packaging until everything is removed. Check the packing list below to make sure you have all of the parts and accessories. If any part is missing or broken, please contact our customer service at **1-800-232-1195** (M-F 8-5 CST), or email **techsupport@wenproducts.com**.

PACKING LIST



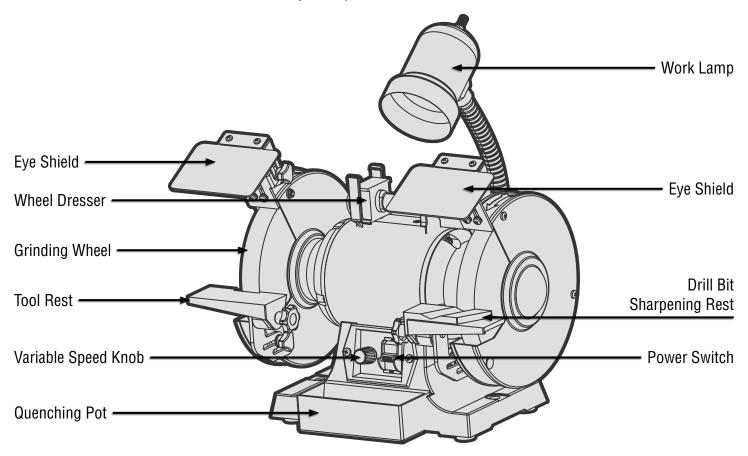




KNOW YOUR BENCH GRINDER

TOOL PURPOSE

Sharpen bits, drill bits, chisels, gouges, and other cutting tools all with your WEN Bench Grinder. Refer to the following diagrams to become familiarized with all the parts and controls of your bench grinder. The components will be referred to later in the manual for assembly and operation instructions.



ASSEMBLY & ADJUSTMENTS

TOOL RESTS

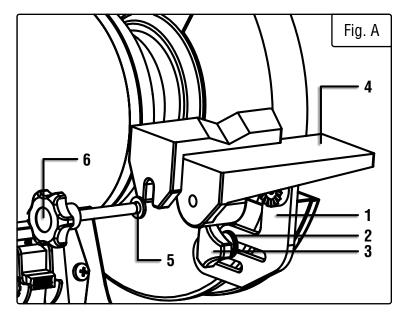
Two different tool rests are included with this bench grinder.

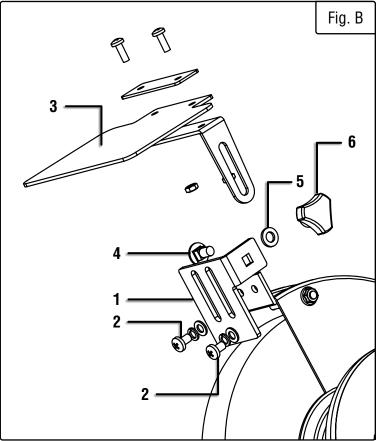
To install these tool rests:

- 1. Attach the tool rest support (Fig. A 1) to the inside surface of the wheel cover using a flat washer (Fig. A 2) and a hex head screw (Fig. A 3).
- 2. Attach the tool rest (Fig. A 4) to the tool rest support (Fig A 1) using a flat washer (Fig. A 5) and an adjustment knob (Fig. A 6).
- 3. Adjust each tool rest until its inside edge is 1/16 of an inch from the grinding wheel. Tighten the hex head screws holding the supports in place.
- 4. If you are wanting to sharpen drill bits, there is also a drill bit sharpening plate included in this package. Attach it to the tool rest support in the same way as you would the regular tool rests. The divot running diagonally down the center of the tool rests allows for easy sharpening of the tips of bits. Only use this plate for sharpening drill bits.

SPARK ARRESTORS AND EYE SHIELDS

- 1. Attach the spark arrestors (Fig. B 1) to the inside surface of the wheel covers using two screws and washers (Fig. B 2).
- 2. Position said spark arrestors so that the lower edge is 1/16 of an inch from the grinding wheel. Firmly tighten the hex head screws.
- 3. Attach the eye shields (Fig. B 3) to the spark arrestor by inserting a carriage head screw (Fig. B 4) through the eye shield and the spark arrestor.
- 4. Position the eye shield into its desired position. Assemble the flat washer (Fig. B 5) and lock knob (Fig. B 6) to the carriage head screw and tighten until the eye shield no longer moves.





ASSEMBLY & ADJUSTMENTS

WORKLIGHT

The bench grinder provided has a flexible work light to maximize visibility during operation. A light bulb for the flexible work light is not included. Use a 120 Volt, 40 watt or less track light bult (type R20, medium base) for the onboard lamp. Make sure the bulb does not protrude past the rim of the light's housing.

The flexible work light can be positioned in whatever direction you choose. Using the switch located on the top of the housing will turn the light on and off.

WARNING! The light's housing will remain hot for a few minutes after operation. Make sure to not touch either the bulb or the housing during or directly after use.

PERMANENT MOUNTING

Firmly attach the grinder to a reliable work surface using the mounting pads and the included holes along the base of the grinder (mounting hardware not included). This will prevent the possibility of vibration, walking or tipping during operation.

WARNING! Do not operate this machine without first attaching the base to a reliable surface.

OPERATION

- 1. Turn the variable speed knob to its lowest setting before turning on the bench grinder.
- 2. To operate the bench grinder, always wear safety glasses and turn the tool on while standing to the side of the grinder (as opposed to in front). Allow it to reach full speed before grinding.
- 3. Once the grinder is up and running, set the grinder to your desired speed. The lowest speed setting should be used for light grinding, sharpening, and paint/rust removal. The highest speed should be used for deburring, material removal and other heavier grinding tasks.
- 4. Hold the work piece firmly against the tool rest. Hold very small pieces with pliers or other suitable clamps.
- 5. Feed the work piece smoothly and evenly into the grinding wheel. Move it back and forth as to not burn any one area of the surface and also to make for even grinding.
- 6. Move the work piece slowly and avoid jamming the work piece against the wheel. If the wheel tends to slow down from excessive force, you should occasionally release the pressure to let the wheel return to full speed.
- 7. Grind only on the face of the grinding wheel; never the side of it
- 8. Place the hot end of the workpiece into the quenching tray to cool it off if you so choose.
- 9. Once grinding operations are complete, return the variable speed knob to its lowest setting. Once the wheels have reached their new low speed, turn the bench grinder off and unplug it. Avoid contact with the bench grinder's housing until it has cooled down completely.

OPERATION

SHARPENING GUIDE:

SCISSORS

If possible, take the scissors apart to make the sharpening operation easier and safer. Remove material only from the outside surface and work from the heavy end of the blade toward the tip.

KNIVES

Remove metal from both faces of most knives, working from the heavy end of the blade toward the tip.

SCREWDRIVERS

The end of a properly sharpened screwdriver will be a perfectly flat rectangle, perpendicular to the center line of the shank. The two sides and two faces will taper outward from the edge of the shoulder or shank. They should be flat with perpendicular intersecting faces. Hold each face of the screwdriver against the wheel to true it up, then ease the end straight into the stone to grind it true.

LAWN MOWER BLADES

Lawn mower blades are usually sharpened on only one side and dressed up slightly on the other. After sharpening, be sure to balance the blade by removing additional material from the heavy end. There are a number of inexpensive cone balancers on the market for this purpose. Unbalanced blades can cause serious crank shaft damage to your lawn mower. Always remove spark plug wires or battery from the mower before servicing the blades to prevent accidental startups.

DRILL BITS

Use the drill bit tool rest to provide angled support to drill bits during grinding operation. The angled divot running through the rest allows for a cradle for drill bits during sharpening operations.

MAINTENANCE

WARNING! For your own safety, turn the switch OFF and remove the plug from the electrical outlet before adjusting or performing maintenance or lubrication work on the sharpener.

Before using, check to make sure parts are not damaged, missing, or worn. Check for alignment of moving parts, binding of moving parts, improper mounting, or any other conditions that may affect the sharpener's operation. If any of these conditions exist, do not use until parts are replaced or the sharpener is properly repaired. Frequently blow or vacuum dust from all surfaces and the motor housing.

WARNING! Any attempt to repair or replace electrical parts on this tool may be hazardous. Repairs should be done by a qualified service technician only.

- 1. Regularly check the tool and use a soft brush to remove accumulated dust. Wear safety goggles to protect your eyes while cleaning.
- 2. If the body of the grinder needs cleaning, wipe it down with a soft, damp cloth. A mild detergent can be used. Do not use alcohol, petrol or other similar cleaning agents. Do not make contact with the grinding wheels with any damp cloth.
- 3. Always make sure the eye shields are transparent and not blocking the view of the grinding wheel.

MAINTENANCE

- 4. In normal use, grinding wheels may become cracked, grooved, rounded at the edges, chipped, out of true or loaded with foreign material. Cracked wheels should be replaced IMMEDIATELY. While any of the other conditions can be remedied with a dressing tool (included), new wheels sometimes require dressing to make them round.
- 5. If you must replace a wheel be sure to obtain one with a safe rated speed at least as high as the "NO LOAD" RPM marked on your grinder's nameplate. Test new wheels for cracks and maintain the existing sequence of retaining hardware. Be sure the tool is unplugged before attempting repairs.
- 6. This unit has sealed lubrication within the bearings in the motor housing. No additional lubrication is required.

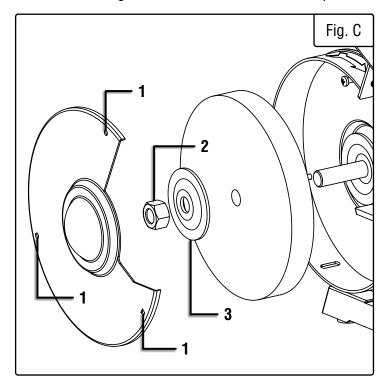
CHANGING THE GRINDING WHEELS

Grinding wheels should be inspected before each use. Store the grinding wheels to prevent them from the potential hazards of moisture, containments and other damage.

To replace a grinding wheel:

- 1. Disconnect the grinder from the power supply.
- 2. Rotate the eye shield out of the way in order to access the tool rest.
- 3. Loosen the tool rest knob and position the tool rest away from the grinding wheel.
- 4. Remove the three screws (Fig. C 1) found around the outside of the wheel guard in order to remove the wheel cover.
- 5. Using two wrenches, remove the arbor hex nut (Fig. C 2) found on the outside edge of the grinding wheel.

NOTE: The left side hex nut is loosened by using a clockwise wrench rotation while the right side hex nut is loosened with a counterclockwise rotation.



- 6. Remove the outer wheel flange (Fig. C 3) and set it to the side. Now you can freely remove the old grinding wheel.
- 7. Replace the abrasive wheel with a new grinding wheel rated to safely operate at a higher RPM than the max speed of the grinder (over 3600 RPM). Make sure both the outer diameter and the arbor size of the replacement wheel adequately meet the standards of this grinder. Do not remove labels from the grinding wheels.
- 8. Once the wheel has been replaced, reattach the outer flange and the arbor hex nut. Do not overtighten any flanges or nuts, as this can dig into the abrasive wheel, creating a risk of injury.
- 9. Replace the wheel cover, the knobs, the tool rest and the eye shield. Make sure all guards, shields and tool rests are correctly positioned before operation.

MAINTENANCE

USING A WIRE OR BUFFING WHEEL

A wire or buffing wheel can be installed onto either side of the grinder as needed. More spacers are required for these types of grinding wheels, depending on the wheel's thickness.

NOTE: The first spacer should always go onto the arbor shaft, between the innermost wheel flange and the body of the grinder. If needed, a second spacer should go between the outermost wheel flange and the arbor hex nut. Always use the included wheel flanges even if using a wire or a buffing wheel.

QUENCHING TRAY

Periodically empty out the quenching tray. Rinse it of any metal filaments and refill it with clean water to prevent buildup on the wheel itself. Your cleaning schedule should depend on frequency of use.

TROUBLESHOOTING GUIDE

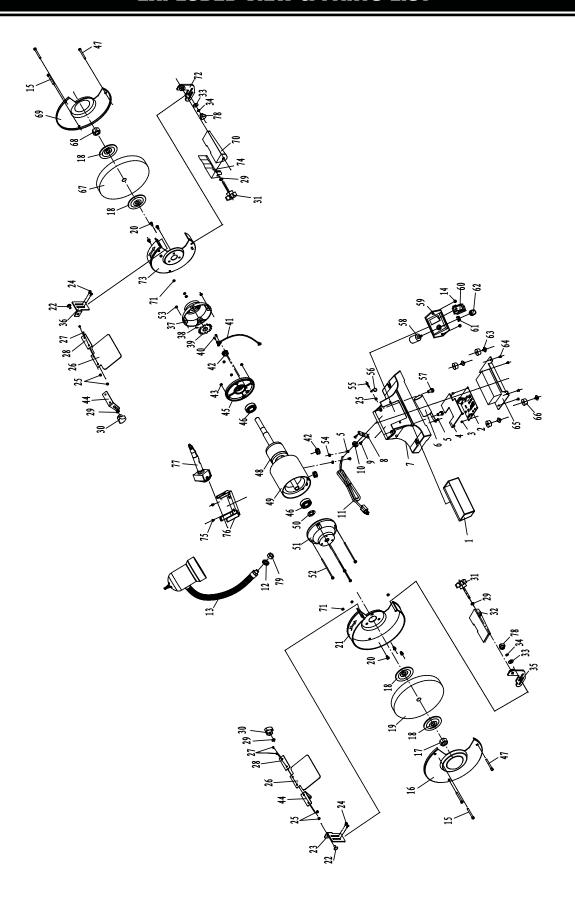
PROBLEM	CAUSE	SOLUTION
The motor won't start.	 Low voltage Loose connections or open circuit in the motor. Blown fuse/breaker. 	 Make sure the power source is providing the proper voltage. Inspect the motor for loose or open connections. Send for servicing if found. Replace the fuse or reset the breaker
The motor is getting way too hot.	Overloaded motor Extension cord too long or not thick enough.	 Reduce load on the motor. Utilize an extension cord with an appropriate gauge and length (or plug the tool directly into the outlet if possible).
The motor stalls, causing a blown fuse or tripped circuit.	1) Loose connections or short circuit in the motor. 2) Low voltage. 3) Incorrect fuses or circuit breakers in the power line. 4) Overloaded motor.	 Check the connections on the motor for loose or shorted terminals/worn insulation. Send for servicing if found. Fix voltage supply; possibly an issue with the extension cord or possibly the power source. Install the correct fuses or circuit breakers. Plug tool into an appropriate circuit, matched with an appropriate fuse/breaker. Reduce the load.
Stropping wheel performance decreases	Insufficient wheel preparation (lack of oil and paste) Damaged wheel	1) Prepare the wheel 2) Change out the wheel
Wavy condition on the surface of a workpiece	 Machine is vibrating Workpiece isn't held in place firmly Wheel face uneven 	 Make sure the machine is securely positioned on a level surface. Use a holding device to firmly retain the workpiece. Dress the grinding wheel.
Machine runs too loud during operation.	Lack of lubricating grease	Add lubricating grease to the gear.

EXPLODED VIEW & PARTS LIST

No.	Part Number	Description	Qty.
1	4280-001	Coolant Tray	1
2	4280-002	Circuit Board	1
3	4280-003	Screw (ST2.9x5)	2
4	4280-004	Circuit Board Cover	1
5	4280-005	Screw Assembly (M4X8)	3
6	4280-006	Capacitor	1
7	4280-007	Base	1
8	4280-008	Cord Plate	1
9	4280-009	Screw (M5x8)	2
10	4280-010	Cord Clip	1
11	4280-011	Power Cord	1
12	4280-012	Washer (D12)	1
13	4280-013	Light Subassembly	1
14	4280-014	Screw (M5x8)	2
15	4280-015	Screw (M5X48)	4
16	4280-016	Left Wheel Guard Cover	1
17	4280-017	Left Hex Nut (M16)	1
18	4280-018	Flange	4
19	4280-019	Left Grinding Wheel (#36)	1
20	4280-020	Screw Assembly (M5X10)	6
21	4280-021	Left Wheel Guard	1
22	4280-022	Bolt (M6x12)	2
23	4280-023	Left Shield Bracket	1
24	4280-024	Screw Assembly (M5X10)	4
25	4280-025	Nut (M4)	5
26	4280-026	Eye Shield	2
27	4280-027	Screw (M4X12)	4
28	4280-028	Eyeshield pressure plate	2
29	4280-029	Washer (D6)	2
30	4280-030	Locking Nut (M6)	2
31	4280-031	Locking Knob (M6X17)	2
32	4280-032	Left Work Rest	1
33	4280-033	Washer (D5)	2
34	4280-034	Spring Washer (D5)	2
35	4280-035	Left Work Rest Bracket	1
36	4280-036	Right Shield Bracket	1
37	4280-037	Right End Bell	1
38	4280-038	Hex Bolt (M5x6)	1
39	4280-039	Bushing	1
40	4280-040	Screw (M2.5X6)	2

41 4280-042 Bushing 3 42 4280-042 Bushing 3 43 4280-043 Nut (M5) 4 44 4280-044 Left Eye Shield Bracket 2 45 4280-045 Cover 1 46 4280-046 Bearing (6204) 2 47 4280-047 Square Neck Bolt (M5X51) 2 48 4280-048 Rotor 1 49 4280-049 Stator 1 50 4280-050 Spring Lock Washer 1 51 4280-051 Left End Bell 1 52 4280-052 Screw Assembly (M5X160) 4 43 4280-053 Nut (M5) 4 44 4280-054 Locking Washer (D4) 2 55 4280-055 Screw (M4x16) 1 56 4280-056 Knob ((3/16)') 1 57 4280-057 Hex Bolt Assembly (M8x22) 2 58 4280-058 Potentiomet	No.	Part Number	Description	Qty.
43 4280-043 Nut (M5) 4 44 4280-044 Left Eye Shield Bracket 2 45 4280-045 Cover 1 46 4280-047 Square Neck Bolt (M5X51) 2 47 4280-048 Rotor 1 49 4280-049 Stator 1 50 4280-050 Spring Lock Washer 1 51 4280-051 Left End Bell 1 52 4280-052 Screw Assembly (M5X160) 4 53 4280-053 Nut (M5) 4 54 4280-054 Locking Washer (D4) 2 55 4280-055 Screw (M4x16) 1 56 4280-056 Knob ((3/16)') 1 57 4280-057 Hex Bolt Assembly (M8x22) 2 58 4280-058 Potentiometer 1 60 4280-059 Switch Plate 1 61 4280-060 Switch 1 62 4280-059 Switch P	41	4280-041	Sensor	1
44 4280-044 Left Eye Shield Bracket 2 45 4280-045 Cover 1 46 4280-046 Bearing (6204) 2 47 4280-047 Square Neck Bolt (M5X51) 2 48 4280-048 Rotor 1 49 4280-049 Stator 1 50 4280-050 Spring Lock Washer 1 51 4280-051 Left End Bell 1 52 4280-052 Screw Assembly (M5X160) 4 53 4280-053 Nut (M5) 4 54 4280-054 Locking Washer (D4) 2 55 4280-055 Screw (M4x16) 1 56 4280-056 Knob ((3/16)*) 1 57 4280-057 Hex Bolt Assembly (M8x22) 2 58 4280-058 Potentiometer 1 60 4280-060 Switch 1 61 4280-061 Washer 1 62 4280-062 Speed Ad	42	4280-042	Bushing	3
45 4280-045 Cover 1 46 4280-046 Bearing (6204) 2 47 4280-047 Square Neck Bolt (M5X51) 2 48 4280-048 Rotor 1 49 4280-049 Stator 1 50 4280-050 Spring Lock Washer 1 51 4280-051 Left End Bell 1 52 4280-052 Screw Assembly (M5X160) 4 53 4280-053 Nut (M5) 4 54 4280-054 Locking Washer (D4) 2 55 4280-055 Screw (M4x16) 1 56 4280-055 Krob ((3/16)') 1 57 4280-056 Knob ((3/16)') 1 58 4280-057 Hex Bolt Assembly (M8x22) 2 58 4280-058 Potentiometer 1 60 4280-060 Switch 1 61 4280-061 Washer 1 62 4280-062 Speed Adjustment	43	4280-043	Nut (M5)	4
46 4280-046 Bearing (6204) 2 47 4280-047 Square Neck Bolt (M5X51) 2 48 4280-048 Rotor 1 49 4280-050 Spring Lock Washer 1 50 4280-051 Left End Bell 1 51 4280-052 Screw Assembly (M5X160) 4 53 4280-053 Nut (M5) 4 54 4280-054 Locking Washer (D4) 2 55 4280-055 Screw (M4x16) 1 56 4280-056 Knob ((3/16)') 1 57 4280-057 Hex Bolt Assembly (M8x22) 2 58 4280-058 Potentiometer 1 59 4280-059 Switch Plate 1 60 4280-060 Switch 1 61 4280-061 Washer 1 62 4280-062 Speed Adjustment Knob 1 63 4280-063 Screw Assembly (M5X16) 4 64 4280-064	44	4280-044	Left Eye Shield Bracket	2
47 4280-047 Square Neck Bolt (M5X51) 2 48 4280-048 Rotor 1 49 4280-050 Spring Lock Washer 1 50 4280-051 Left End Bell 1 51 4280-052 Screw Assembly (M5X160) 4 52 4280-052 Screw Assembly (M5X160) 4 53 4280-053 Nut (M5) 4 54 4280-054 Locking Washer (D4) 2 55 4280-055 Screw (M4x16) 1 56 4280-056 Knob ((3/16)') 1 57 4280-057 Hex Bolt Assembly (M8x22) 2 58 4280-058 Potentiometer 1 59 4280-059 Switch Plate 1 60 4280-060 Switch Plate 1 61 4280-061 Washer 1 62 4280-062 Speed Adjustment Knob 1 63 4280-063 Screw Assembly (M5X16) 4 64 <t< td=""><td>45</td><td>4280-045</td><td>Cover</td><td>1</td></t<>	45	4280-045	Cover	1
48 4280-048 Rotor 1 49 4280-049 Stator 1 50 4280-050 Spring Lock Washer 1 51 4280-051 Left End Bell 1 52 4280-052 Screw Assembly (M5X160) 4 53 4280-053 Nut (M5) 4 54 4280-054 Locking Washer (D4) 2 55 4280-055 Screw (M4x16) 1 56 4280-056 Knob ((3/16)') 1 57 4280-057 Hex Bolt Assembly (M8x22) 2 58 4280-058 Potentiometer 1 59 4280-059 Switch Plate 1 60 4280-060 Switch 1 61 4280-061 Washer 1 62 4280-062 Speed Adjustment Knob 1 63 4280-063 Screw Assembly (M5X16) 4 64 4280-064 Screw Assembly (M5X16) 4 65 4280-065 <	46	4280-046	Bearing (6204)	2
49 4280-049 Stator 1 50 4280-050 Spring Lock Washer 1 51 4280-051 Left End Bell 1 52 4280-052 Screw Assembly (M5X160) 4 53 4280-053 Nut (M5) 4 54 4280-054 Locking Washer (D4) 2 55 4280-055 Screw (M4x16) 1 56 4280-056 Knob ((3/16)') 1 57 4280-057 Hex Bolt Assembly (M8x22) 2 58 4280-058 Potentiometer 1 59 4280-059 Switch Plate 1 60 4280-060 Switch Plate 1 61 4280-061 Washer 1 62 4280-062 Speed Adjustment Knob 1 63 4280-063 Screw Assembly (M5X16) 4 64 4280-064 Screw Assembly (M5X16) 4 65 4280-065 Base Plate 1 66 4280-066 <td>47</td> <td>4280-047</td> <td>Square Neck Bolt (M5X51)</td> <td>2</td>	47	4280-047	Square Neck Bolt (M5X51)	2
50 4280-050 Spring Lock Washer 1 51 4280-051 Left End Bell 1 52 4280-052 Screw Assembly (M5X160) 4 53 4280-053 Nut (M5) 4 54 4280-054 Locking Washer (D4) 2 55 4280-055 Screw (M4x16) 1 56 4280-056 Knob ((3/16)') 1 57 4280-057 Hex Bolt Assembly (M8x22) 2 58 4280-058 Potentiometer 1 59 4280-059 Switch Plate 1 60 4280-060 Switch 1 61 4280-060 Switch 1 62 4280-061 Washer 1 63 4280-062 Speed Adjustment Knob 1 64 4280-063 Screw Assembly (M5X16) 4 65 4280-064 Screw Assembly (M4X6) 4 65 4280-065 Base Plate 1 66 4280-066	48	4280-048	Rotor	1
51 4280-051 Left End Bell 1 52 4280-052 Screw Assembly (M5X160) 4 53 4280-053 Nut (M5) 4 54 4280-054 Locking Washer (D4) 2 55 4280-055 Screw (M4x16) 1 56 4280-056 Knob ((3/16)') 1 57 4280-057 Hex Bolt Assembly (M8x22) 2 58 4280-058 Potentiometer 1 59 4280-059 Switch Plate 1 60 4280-069 Switch Plate 1 61 4280-060 Switch 1 61 4280-061 Washer 1 62 4280-062 Speed Adjustment Knob 1 63 4280-063 Screw Assembly (M5X16) 4 64 4280-064 Screw Assembly (M5X16) 4 65 4280-065 Base Plate 1 66 4280-066 Rubber Feet 4 67 4280-067	49	4280-049	Stator	1
52 4280-052 Screw Assembly (M5X160) 4 53 4280-053 Nut (M5) 4 54 4280-054 Locking Washer (D4) 2 55 4280-055 Screw (M4x16) 1 56 4280-056 Knob ((3/16)') 1 57 4280-057 Hex Bolt Assembly (M8x22) 2 58 4280-058 Potentiometer 1 59 4280-059 Switch Plate 1 60 4280-069 Switch Plate 1 61 4280-060 Switch 1 61 4280-061 Washer 1 62 4280-062 Speed Adjustment Knob 1 63 4280-063 Screw Assembly (M5X16) 4 64 4280-064 Screw Assembly (M4X6) 4 65 4280-065 Base Plate 1 66 4280-066 Rubber Feet 4 67 4280-067 Right White Grinding Wheel (#80) 1 68 4	50	4280-050	Spring Lock Washer	1
53 4280-053 Nut (M5) 4 54 4280-054 Locking Washer (D4) 2 55 4280-055 Screw (M4x16) 1 56 4280-056 Knob ((3/16)') 1 57 4280-057 Hex Bolt Assembly (M8x22) 2 58 4280-058 Potentiometer 1 59 4280-059 Switch Plate 1 60 4280-069 Switch 1 61 4280-061 Washer 1 62 4280-062 Speed Adjustment Knob 1 63 4280-063 Screw Assembly (M5X16) 4 64 4280-064 Screw Assembly (M4X6) 4 65 4280-065 Base Plate 1 66 4280-066 Rubber Feet 4 67 4280-067 Right White Grinding Wheel (#80) 1 68 4280-068 Hex Nut (M16) 1 69 4280-069 Right Wheel Guard Cover 1 71	51	4280-051	Left End Bell	1
54 4280-054 Locking Washer (D4) 2 55 4280-055 Screw (M4x16) 1 56 4280-056 Knob ((3/16)') 1 57 4280-057 Hex Bolt Assembly (M8x22) 2 58 4280-058 Potentiometer 1 59 4280-059 Switch Plate 1 60 4280-060 Switch 1 61 4280-061 Washer 1 62 4280-062 Speed Adjustment Knob 1 63 4280-063 Screw Assembly (M5X16) 4 64 4280-064 Screw Assembly (M4X6) 4 65 4280-065 Base Plate 1 66 4280-066 Rubber Feet 4 67 4280-067 Right White Grinding Wheel (#80) 1 68 4280-068 Hex Nut (M16) 1 69 4280-069 Right Wheel Guard Cover 1 71 4280-071 Hex Nut (M5) 4 72	52	4280-052	Screw Assembly (M5X160)	4
55 4280-055 Screw (M4x16) 1 56 4280-056 Knob ((3/16)') 1 57 4280-057 Hex Bolt Assembly (M8x22) 2 58 4280-058 Potentiometer 1 59 4280-059 Switch Plate 1 60 4280-060 Switch 1 61 4280-061 Washer 1 62 4280-062 Speed Adjustment Knob 1 63 4280-062 Speed Adjustment Knob 1 63 4280-063 Screw Assembly (M5X16) 4 64 4280-063 Screw Assembly (M4X6) 4 65 4280-065 Base Plate 1 66 4280-066 Rubber Feet 4 67 4280-067 Right White Grinding Wheel (#80) 1 68 4280-068 Hex Nut (M16) 1 69 4280-069 Right Wheel Guard Cover 1 70 4280-070 Right Work Rest 1 72	53	4280-053	Nut (M5)	4
56 4280-056 Knob ((3/16)') 1 57 4280-057 Hex Bolt Assembly (M8x22) 2 58 4280-058 Potentiometer 1 59 4280-059 Switch Plate 1 60 4280-060 Switch Plate 1 61 4280-061 Washer 1 62 4280-062 Speed Adjustment Knob 1 63 4280-062 Speed Adjustment Knob 1 63 4280-063 Screw Assembly (M5X16) 4 64 4280-063 Screw Assembly (M4X6) 4 65 4280-064 Screw Assembly (M4X6) 4 66 4280-065 Base Plate 1 66 4280-066 Rubber Feet 4 67 4280-067 Right White Grinding Wheel (#80) 1 68 4280-068 Hex Nut (M16) 1 69 4280-069 Right Wheel Guard Cover 1 71 4280-071 Hex Nut (M5) 4	54	4280-054	Locking Washer (D4)	2
57 4280-057 Hex Bolt Assembly (M8x22) 2 58 4280-058 Potentiometer 1 59 4280-059 Switch Plate 1 60 4280-060 Switch 1 61 4280-061 Washer 1 62 4280-062 Speed Adjustment Knob 1 63 4280-063 Screw Assembly (M5X16) 4 64 4280-064 Screw Assembly (M4X6) 4 65 4280-065 Base Plate 1 66 4280-066 Rubber Feet 4 67 4280-067 Right White Grinding Wheel (#80) 1 68 4280-068 Hex Nut (M16) 1 69 4280-069 Right Wheel Guard Cover 1 70 4280-070 Right Work Rest 1 71 4280-071 Hex Nut (M5) 4 72 4280-072 Right Work Rest Bracket 1 73 4280-073 Right Work Rest Bracket 1 7	55	4280-055	Screw (M4x16)	1
58 4280-058 Potentiometer 1 59 4280-059 Switch Plate 1 60 4280-060 Switch 1 61 4280-061 Washer 1 62 4280-062 Speed Adjustment Knob 1 63 4280-063 Screw Assembly (M5X16) 4 64 4280-064 Screw Assembly (M4X6) 4 65 4280-065 Base Plate 1 66 4280-066 Rubber Feet 4 67 4280-067 Right White Grinding Wheel (#80) 1 68 4280-068 Hex Nut (M16) 1 69 4280-069 Right Wheel Guard Cover 1 70 4280-070 Right Work Rest 1 71 4280-071 Hex Nut (M5) 4 72 4280-072 Right Work Rest Bracket 1 73 4280-073 Right Wheel Guard 1 74 4280-075 Screw (M4X8) 2 76	56	4280-056	Knob ((3/16)')	1
59 4280-059 Switch Plate 1 60 4280-060 Switch 1 61 4280-061 Washer 1 62 4280-062 Speed Adjustment Knob 1 63 4280-063 Screw Assembly (M5X16) 4 64 4280-064 Screw Assembly (M4X6) 4 65 4280-065 Base Plate 1 66 4280-066 Rubber Feet 4 67 4280-067 Right White Grinding Wheel (#80) 1 68 4280-068 Hex Nut (M16) 1 69 4280-069 Right Wheel Guard Cover 1 70 4280-070 Right Work Rest 1 71 4280-071 Hex Nut (M5) 4 72 4280-072 Right Work Rest Bracket 1 73 4280-073 Right Wheel Guard 1 74 4280-075 Screw (M4X8) 2 76 4280-076 Wheel Dresser Mount 1 77	57	4280-057	Hex Bolt Assembly (M8x22)	2
60 4280-060 Switch 1 61 4280-061 Washer 1 62 4280-062 Speed Adjustment Knob 1 63 4280-063 Screw Assembly (M5X16) 4 64 4280-064 Screw Assembly (M4X6) 4 65 4280-065 Base Plate 1 66 4280-066 Rubber Feet 4 67 4280-067 Right White Grinding Wheel (#80) 1 68 4280-068 Hex Nut (M16) 1 69 4280-069 Right Wheel Guard Cover 1 70 4280-070 Right Work Rest 1 71 4280-071 Hex Nut (M5) 4 72 4280-072 Right Work Rest Bracket 1 73 4280-073 Right Wheel Guard 1 74 4280-074 Angled Right Work Rest 1 75 4280-075 Screw (M4X8) 2 76 4280-076 Wheel Dresser Mount 1 77 </td <td>58</td> <td>4280-058</td> <td>Potentiometer</td> <td>1</td>	58	4280-058	Potentiometer	1
61 4280-061 Washer 1 62 4280-062 Speed Adjustment Knob 1 63 4280-063 Screw Assembly (M5X16) 4 64 4280-064 Screw Assembly (M4X6) 4 65 4280-065 Base Plate 1 66 4280-066 Rubber Feet 4 67 4280-067 Right White Grinding Wheel (#80) 1 68 4280-068 Hex Nut (M16) 1 69 4280-069 Right Wheel Guard Cover 1 70 4280-070 Right Work Rest 1 71 4280-071 Hex Nut (M5) 4 72 4280-072 Right Work Rest Bracket 1 73 4280-073 Right Wheel Guard 1 74 4280-074 Angled Right Work Rest 1 75 4280-075 Screw (M4X8) 2 76 4280-076 Wheel Dresser Mount 1 77 4280-077 Wheel Dresser 1 78 4280-078 Locking Nut (M5) 2	59	4280-059	Switch Plate	1
62 4280-062 Speed Adjustment Knob 1 63 4280-063 Screw Assembly (M5X16) 4 64 4280-064 Screw Assembly (M4X6) 4 65 4280-065 Base Plate 1 66 4280-066 Rubber Feet 4 67 4280-067 Right White Grinding Wheel (#80) 1 68 4280-068 Hex Nut (M16) 1 69 4280-069 Right Wheel Guard Cover 1 70 4280-070 Right Work Rest 1 71 4280-071 Hex Nut (M5) 4 72 4280-072 Right Work Rest Bracket 1 73 4280-073 Right Wheel Guard 1 74 4280-074 Angled Right Work Rest 1 75 4280-075 Screw (M4X8) 2 76 4280-076 Wheel Dresser Mount 1 77 4280-077 Wheel Dresser 1 78 4280-078 Locking Nut (M5) 2	60	4280-060	Switch	1
63 4280-063 Screw Assembly (M5X16) 4 64 4280-064 Screw Assembly (M4X6) 4 65 4280-065 Base Plate 1 66 4280-066 Rubber Feet 4 67 4280-067 Right White Grinding Wheel (#80) 1 68 4280-068 Hex Nut (M16) 1 69 4280-069 Right Wheel Guard Cover 1 70 4280-070 Right Work Rest 1 71 4280-071 Hex Nut (M5) 4 72 4280-072 Right Work Rest Bracket 1 73 4280-073 Right Wheel Guard 1 74 4280-074 Angled Right Work Rest 1 75 4280-075 Screw (M4X8) 2 76 4280-076 Wheel Dresser Mount 1 77 4280-077 Wheel Dresser 1 78 4280-078 Locking Nut (M5) 2	61	4280-061	Washer	1
64 4280-064 Screw Assembly (M4X6) 4 65 4280-065 Base Plate 1 66 4280-066 Rubber Feet 4 67 4280-067 Right White Grinding Wheel (#80) 1 68 4280-068 Hex Nut (M16) 1 69 4280-069 Right Wheel Guard Cover 1 70 4280-070 Right Work Rest 1 71 4280-071 Hex Nut (M5) 4 72 4280-072 Right Work Rest Bracket 1 73 4280-073 Right Wheel Guard 1 74 4280-074 Angled Right Work Rest 1 75 4280-075 Screw (M4X8) 2 76 4280-076 Wheel Dresser Mount 1 77 4280-077 Wheel Dresser 1 78 4280-078 Locking Nut (M5) 2	62	4280-062	Speed Adjustment Knob	1
65 4280-065 Base Plate 1 66 4280-066 Rubber Feet 4 67 4280-067 Right White Grinding Wheel (#80) 1 68 4280-068 Hex Nut (M16) 1 69 4280-069 Right Wheel Guard Cover 1 70 4280-070 Right Work Rest 1 71 4280-071 Hex Nut (M5) 4 72 4280-072 Right Work Rest Bracket 1 73 4280-073 Right Wheel Guard 1 74 4280-074 Angled Right Work Rest 1 75 4280-075 Screw (M4X8) 2 76 4280-076 Wheel Dresser Mount 1 77 4280-077 Wheel Dresser 1 78 4280-078 Locking Nut (M5) 2	63	4280-063	Screw Assembly (M5X16)	4
66 4280-066 Rubber Feet 4 67 4280-067 Right White Grinding Wheel (#80) 1 68 4280-068 Hex Nut (M16) 1 69 4280-069 Right Wheel Guard Cover 1 70 4280-070 Right Work Rest 1 71 4280-071 Hex Nut (M5) 4 72 4280-072 Right Work Rest Bracket 1 73 4280-073 Right Wheel Guard 1 74 4280-074 Angled Right Work Rest 1 75 4280-075 Screw (M4X8) 2 76 4280-076 Wheel Dresser Mount 1 77 4280-077 Wheel Dresser 1 78 4280-078 Locking Nut (M5) 2	64	4280-064	Screw Assembly (M4X6)	4
67 4280-067 Right White Grinding Wheel (#80) 1 68 4280-068 Hex Nut (M16) 1 69 4280-069 Right Wheel Guard Cover 1 70 4280-070 Right Work Rest 1 71 4280-071 Hex Nut (M5) 4 72 4280-072 Right Work Rest Bracket 1 73 4280-073 Right Wheel Guard 1 74 4280-074 Angled Right Work Rest 1 75 4280-075 Screw (M4X8) 2 76 4280-076 Wheel Dresser Mount 1 77 4280-077 Wheel Dresser 1 78 4280-078 Locking Nut (M5) 2	65	4280-065	Base Plate	1
68 4280-068 Hex Nut (M16) 1 69 4280-069 Right Wheel Guard Cover 1 70 4280-070 Right Work Rest 1 71 4280-071 Hex Nut (M5) 4 72 4280-072 Right Work Rest Bracket 1 73 4280-073 Right Wheel Guard 1 74 4280-074 Angled Right Work Rest 1 75 4280-075 Screw (M4X8) 2 76 4280-076 Wheel Dresser Mount 1 77 4280-077 Wheel Dresser 1 78 4280-078 Locking Nut (M5) 2	66	4280-066	Rubber Feet	4
69 4280-069 Right Wheel Guard Cover 1 70 4280-070 Right Work Rest 1 71 4280-071 Hex Nut (M5) 4 72 4280-072 Right Work Rest Bracket 1 73 4280-073 Right Wheel Guard 1 74 4280-074 Angled Right Work Rest 1 75 4280-075 Screw (M4X8) 2 76 4280-076 Wheel Dresser Mount 1 77 4280-077 Wheel Dresser 1 78 4280-078 Locking Nut (M5) 2	67	4280-067	Right White Grinding Wheel (#80)	1
70 4280-070 Right Work Rest 1 71 4280-071 Hex Nut (M5) 4 72 4280-072 Right Work Rest Bracket 1 73 4280-073 Right Wheel Guard 1 74 4280-074 Angled Right Work Rest 1 75 4280-075 Screw (M4X8) 2 76 4280-076 Wheel Dresser Mount 1 77 4280-077 Wheel Dresser 1 78 4280-078 Locking Nut (M5) 2	68	4280-068	Hex Nut (M16)	1
71 4280-071 Hex Nut (M5) 4 72 4280-072 Right Work Rest Bracket 1 73 4280-073 Right Wheel Guard 1 74 4280-074 Angled Right Work Rest 1 75 4280-075 Screw (M4X8) 2 76 4280-076 Wheel Dresser Mount 1 77 4280-077 Wheel Dresser 1 78 4280-078 Locking Nut (M5) 2	69	4280-069	Right Wheel Guard Cover	1
72 4280-072 Right Work Rest Bracket 1 73 4280-073 Right Wheel Guard 1 74 4280-074 Angled Right Work Rest 1 75 4280-075 Screw (M4X8) 2 76 4280-076 Wheel Dresser Mount 1 77 4280-077 Wheel Dresser 1 78 4280-078 Locking Nut (M5) 2	70	4280-070	Right Work Rest	1
73 4280-073 Right Wheel Guard 1 74 4280-074 Angled Right Work Rest 1 75 4280-075 Screw (M4X8) 2 76 4280-076 Wheel Dresser Mount 1 77 4280-077 Wheel Dresser 1 78 4280-078 Locking Nut (M5) 2	71	4280-071	Hex Nut (M5)	4
74 4280-074 Angled Right Work Rest 1 75 4280-075 Screw (M4X8) 2 76 4280-076 Wheel Dresser Mount 1 77 4280-077 Wheel Dresser 1 78 4280-078 Locking Nut (M5) 2	72	4280-072	Right Work Rest Bracket	1
75 4280-075 Screw (M4X8) 2 76 4280-076 Wheel Dresser Mount 1 77 4280-077 Wheel Dresser 1 78 4280-078 Locking Nut (M5) 2	73	4280-073	Right Wheel Guard	1
76 4280-076 Wheel Dresser Mount 1 77 4280-077 Wheel Dresser 1 78 4280-078 Locking Nut (M5) 2	74	4280-074	Angled Right Work Rest	1
77 4280-077 Wheel Dresser 1 78 4280-078 Locking Nut (M5) 2	75	4280-075	Screw (M4X8)	2
78 4280-078 Locking Nut (M5) 2	76	4280-076	Wheel Dresser Mount	1
	77	4280-077	Wheel Dresser	1
79 4280-079 Hex Nut (M12) 1	78	4280-078	Locking Nut (M5)	2
	79	4280-079	Hex Nut (M12)	1

EXPLODED VIEW & PARTS LIST



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 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 during personal use for a period of two (2) years from date of purchase or 500 hours of use; whichever comes first. Ninety days for all WEN products if the tool is used for professional or commercial use. Purchaser has 30 days from the date of purchase to report missing or damaged parts.

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 replacement of parts, without charge, which are defective in material or workmanship and which have not been subjected to misuse, alteration, careless handling, misrepair, abuse, neglect, normal wear and tear, improper maintenance, or other conditions adversely affecting the Product or the component of the Product, whether by accident or intentionally, by persons other than Seller. 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. Purchasing through third party vendors, including but not limited to garage sales, pawn shops, resale shops, or any other secondhand merchant, voids the warranty included with this product. Contact techsupport@wenproducts.com or 1-800-232-1195 with the following information to make arrangements: your shipping address, phone number, serial number, required part numbers, and proof of purchase. Damaged or defective parts and products may need to be sent to WEN before the replacements can be shipped out.

Upon the confirmation of a WEN representative, your product may qualify for repairs and service work. 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 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 for addresses within the contiguous United States.

THIS LIMITED WARRANTY DOES NOT APPLY TO ITEMS THAT WEAR OUT FROM REGULAR USAGE OVER TIME, INCLUDING BELTS, BRUSHES, BLADES, BATTERIES, ETC. 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 ITEMS 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. FOR WARRANTY PARTS OR PRODUCTS REPAIRED UNDER WARRANTY SHIPPING TO ADDRESSES OUTSIDE OF THE CONTIGUOUS UNITED STATES, ADDITIONAL SHIPPING CHARGES MAY APPLY.

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