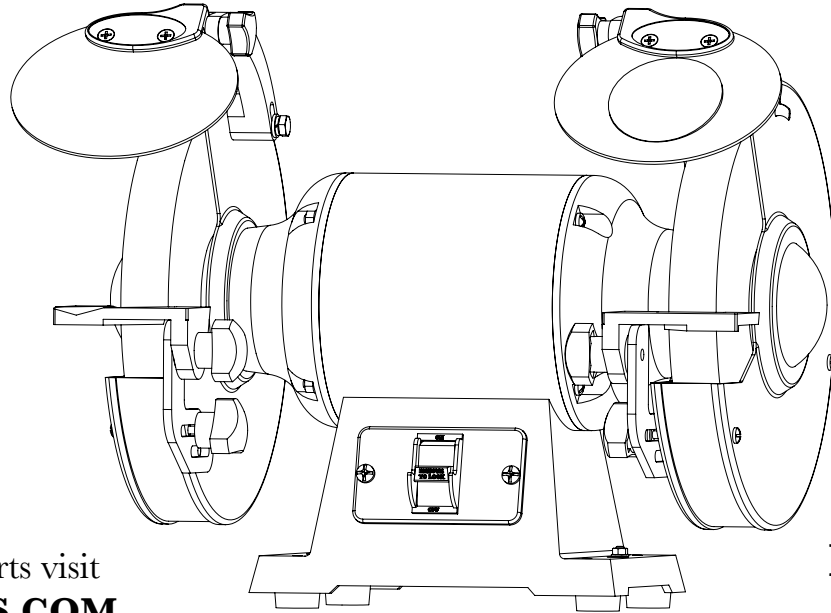




8-INCH SLOW SPEED BENCH GRINDER



Model # 4286
bit.ly/WENvideo



For replacement parts visit
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 intended purpose, you will enjoy years of safe, reliable service.

NEED HELP? CONTACT US!

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



800-232-1195



techsupport@wenproducts.com



WENPRODUCTS.COM



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TECHNICAL DATA

Model Number:	4286
Motor:	120V, 60 Hz, 3A
Wheel Speed:	1750 RPM (no load)
Grinding Wheel Size:	8 inches x 1 inch
Arbor Size:	5/8 inch
Wheel Grits:	#120 (Fine) / #60 (Medium)
Net Weight:	8 pounds
Product Dimensions:	14.5 x 7.75 x 8 inches

Compatible with the WEN 858WW 8-Inch Wire Wheel and the WEN 4288 Bench Grinder Stand.

GENERAL SAFETY RULES

Safety is a combination of common sense, staying alert and knowing how your item works.

SAVE THESE SAFETY INSTRUCTIONS.



WARNING! Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and serious injury. To avoid mistakes and serious injury, do not plug in your tool until the following steps have been read and understood.

WORK AREA SAFETY

1. Keep work area clean and well lit. Cluttered or dark areas invite accidents. Do not work on floor surfaces that are slippery with sawdust or wax. Keep the ground clear of tripping hazards.
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 bystanders at a safe distance from the work area. Never allow children or pets near the tool.

ELECTRICAL SAFETY

1. Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
2. Power tool plugs must match the outlet. Never modify the plug in any way. Modified plugs with non-matching outlets will increase the risk of electric shock.
3. Check all power supplies periodically. Do not use defective cords. Damaged or entangled cords increase the risk of electric shock. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.

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. 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.
3. Use personal protective equipment. Always wear safety goggles at all times that comply with ANSI Z87.1. Use ear protection such as plugs or muffs during extended periods of operation. Wear work gloves to protect your hands. Wear a face mask or dust mask to fight the dust.
4. Keep proper footing and balance at all times and do not overreach when operating the power tool.



WARNING: Dust generated from certain materials can be hazardous to your health. Always operate the tool in a well-ventilated area and wear a dust mask. Use dust collection systems when processing wood and plastics. Dust extractors or dust bags must not be connected when processing metals.

GENERAL SAFETY RULES

POWER TOOL USE AND CARE

1. Avoid accidental start-ups. Make sure the power switch is in the OFF position before connecting the plug to a power source or carrying the tool.
2. Check power tool for damaged parts. Check for misalignment of moving parts, jamming, breakage, improper mounting, or any other conditions that may affect the tool's operation. Do not use the power tool if the switch does not turn ON/OFF. Any part that is damaged should be properly repaired or replaced before use.
3. Do not force the tool to do a job for which it was not designed. Use the correct power tool and accessories and follow the instructions for your application to prevent hazardous situations.
4. Remove adjustment tools. Always make sure all adjustment tools or wrenches are removed from the tool before turning on the power tool.
5. Keep guards in place and in working order before operating the tool. All protection and safety devices must be in place after completing repair and maintenance procedures.
6. Never leave a running tool unattended. Do not leave the tool until it has come to a complete stop.

POWER TOOL MAINTENANCE

1. Always disconnect the power cord plug from the electrical outlet when making adjustments, changing parts, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
2. Maintain power tools properly. Safely store power tools out of the reach of children. Always keep tools clean and in good working order. Follow instructions for lubricating and changing accessories.
3. Only have your power tool serviced by a qualified repair person using only identical replacement parts. Use of any other part can cause personal injury and damage to the tool.

CALIFORNIA PROPOSITION 65 WARNING

This product and 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.

SPECIFIC RULES FOR BENCH GRINDERS



WARNING: Do not plug in or operate this tool until the entire manual has been read and understood. Failure to do so may result in personal injury or machine damage.

1. Use only the correct grinding wheels that meet the following requirements:
 - The speed rating of the wheel is greater than 1750 RPM.
 - The wheel complies with ANSI B7.1.
 - The size of the wheel is 8 inches in diameter and 1 inch thick with a 5/8-inch arbor. Do not use wheels with incorrect arbor size.
2. Always inspect grinding wheels prior to use for cracks or missing pieces. If imperfections are present, replace wheel immediately before use. Never use wheel washers or screws that are defective or incorrect.
3. Thoroughly inspect the grinder. Do not use the bench grinder if the flange nut or arbor hex nut is missing or if the spindle shaft is bent. Use only flanges furnished with this bench grinder.
4. Never touch a grinding wheel or other moving parts during operation or immediately after use. It could take up to a few minutes for the wheels to come to a stop after the tool is switched off.
5. Do not overtighten the wheel nut. Do not use an impact wrench to make adjustments to the grinding wheel nuts, as it could cause damage to the wheel, which could cause severe injury.
6. Risk of injury due to accidental starting. Do not use in an area where children may be present.
7. Always secure the bench grinder by bolting it down to its supporting surface to prevent the grinder from tipping over, sliding, or walking during operation.
8. Do not remove the wheel guard, unless changing a grinding wheel. Ensure the cover is replaced before using the grinder. Always use the guards, spark deflectors and eye shields during operation.
9. Check the ON/OFF switch of your tool. Do not use tool if switch does not turn it on and off. Have defective switches replaced by an authorized service center.
10. Stand beside the bench grinder during start-up, not directly in front. Never stand or have any part of your body in line with the path of the wheel.
11. Never start the grinder when the wheel is in contact with the workpiece.
12. Always hold the workpiece firmly against the work rest.
13. Always ease the workpiece against the abrasive wheel when starting to grind. A harsh impact can break the wheel. Use light pressure when starting to grind. Too much pressure on a cold wheel can cause the wheel to crack.
14. Do not use the grinding wheel to cut anything.
15. Do not apply excess stress to the grinding wheel. Excessive pressure may damage the tool, cause the motor to overheat, and prematurely wear down the grinding wheel.

SPECIFIC RULES FOR THE BENCH GRINDER

16. New wheels may require dressing to make them round. Use a grinding wheel dressing tool (not included) to shape or remove glaze from grinding wheels.
17. Keep the distance between the wheel and tool rest at most a 1/8-inch (3.2 mm) space. Adjust the work rest accordingly as the wheel grinds down to a smaller diameter with use over time.
18. Guard against electrical shock by preventing body contact with grounded surfaces. For example: pipes, radiators, ranges, refrigerator enclosure, etc.
19. Never reach to pick up a workpiece, a piece of scrap, or anything else that is in or near the grinding path of the wheel.
20. Avoid awkward operations and hand positions where a sudden slip could cause your hand to move into the wheel. Always make sure you have good balance.
21. Do not turn the switch on and off rapidly. This could cause the wheel to loosen and create a hazard. Should this ever occur, stand clear and allow the wheel to come to a complete stop. Disconnect your grinder from the power supply and retighten the wheel nut securely.
22. Frequently clean grinding dust from beneath the grinder.
24. If any part of this grinder is missing, broken, bent, or damaged in any way, or if any electrical component fails to perform properly, shut off the power switch, remove the machine plug from the power source and have the damaged, missing, or failed parts replaced before 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.

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 whether the tool is properly grounded.

USE ONLY THREE-WIRE EXTENSION CORDS that have three-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, have a licensed electrician check the outlet.

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

EXTENSION CORD GUIDELINES

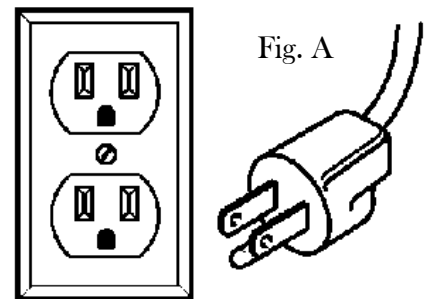
Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. The table below shows the correct size to be used according to cord length and nameplate ampere rating. When in doubt, use a heavier cord. The smaller the gauge number, the heavier the cord.

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/wet areas.

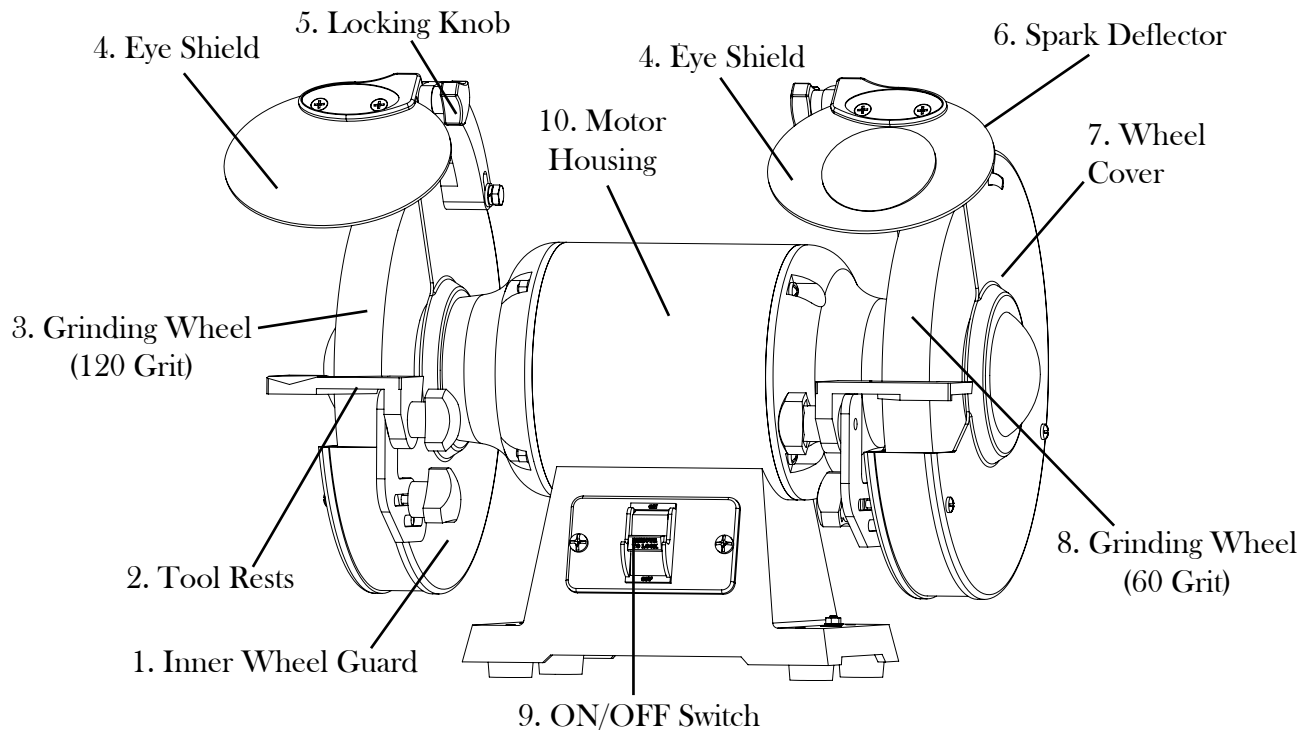
Use a separate electrical circuit for your tools. This circuit must not be less than a #12 wire and should be protected with a 15 A time-delayed fuse. Before connecting the motor to the power line, make sure the switch is in the OFF position and the electric current is rated the same as the current stamped 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.



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

KNOW YOUR GRINDER



1. **INNER WHEEL GUARD** - Covers the grinding wheels and protects against accidental contact.

2. **TOOL RESTS** - Used to support the workpiece. Adjustable to provide angled surfaces.

3. **120-GRIT GRINDING WHEEL**- Used to remove light material from workpiece.

4. **EYE SHIELD** - Protective see-through shields to prevent any loose debris from contacting the operator.

5. **LOCKING KNOB** - Lock the eye shield in position.

6. **SPARK ARRESTOR** - Prevents hot sparks and debris from contacting the operator.

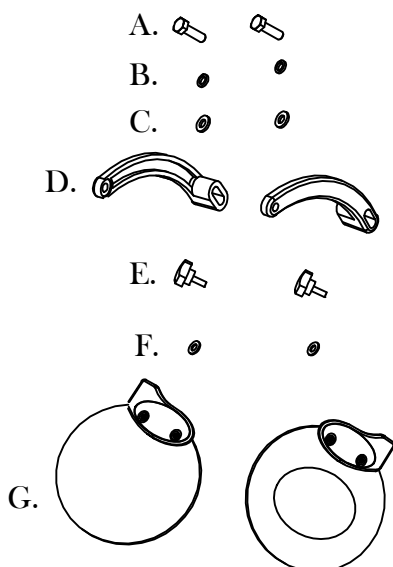
7. **WHEEL COVER** - Covers the grinding wheels and provides quick access for routine maintenance.

8. **60-GRIT GRINDING WHEEL** - Used to remove light material from workpiece.

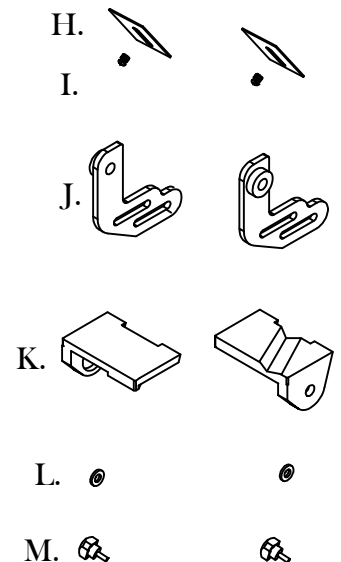
9. **ON/OFF SWITCH WITH SAFETY LOCK**

10. **MOTOR HOUSING** - Contains the electrical motor.

PACKING LIST



- A. Two Hex Bolts (M6x30)
- B. Two Spring Washers (D6)
- C. Two Flat Washers (D6)
- D. Two Eye Shield Rods
- E. Two Eye Shield Locking Knobs
- F. Two Flat Washers (D5)
- G. Two Eye Shield Assemblies
- H. Two Spark Deflectors
- I. Two Phillips Screws/Flat Washer/Spring Washer Assemblies (M5x10)
- J. Two Fixed Tool Rest Brackets
- K. Two Movable Tool Rests
- L. Two Flat Washers (D6)
- M. Two Work Rest Locking Knobs



ASSEMBLY

WARNING: To avoid injury from unexpected starting or electrical shock, do not plug the power cord into a source of power during unpacking and assembly. This cord must remain unplugged whenever you are adjusting/assembling the grinder. If any part is missing or damaged, do not attempt to assemble the grinder or plug in the power cord. All of the parts needed for assembly should be located and accounted for before beginning.

TOOL REST ASSEMBLY

1. Place the tool rest (C) over the tool rest support (G) and secure in position with a 6mm flat washer (B) and knob (A).
2. Attach the tool rest support to the bottom of the left wheel guard. Insert a carriage bolt (P) through cover and guard. Place upper slot of support over carriage bolt and lower slot over the raised boss on guard. Secure support using 5mm flat washer (F), 5mm lock washer (E) and knob (D). Tighten knob finger tight.
3. Position tool rest so that distance between tool rest and grinding wheel is 1/16" or less. Reposition angle of tool rest if necessary. Secure all knobs.
4. Mount right tool rest in a similar manner.

SPARK DEFLECTOR AND EYE SHIELD ASSEMBLY

1. Attach spark deflector (N) to left wheel guard using 5mm flat washer, 5mm lock washer and pan head screw (O). Make sure spark deflector is 1/4" or less away from grinding wheel.
2. Attach eye shield support (L) to left wheel guard using 6mm flat washer (B), 6mm lock washer (I) and hex head bolt (H).
3. Attach eye shield (M) to eye shield support using 5mm flat washer (K) and knob (J).
4. Position eye shield as desired and secure all knobs and bolts.
5. Attach spark deflector and eye shield assembly to right wheel guard in a similar manner.

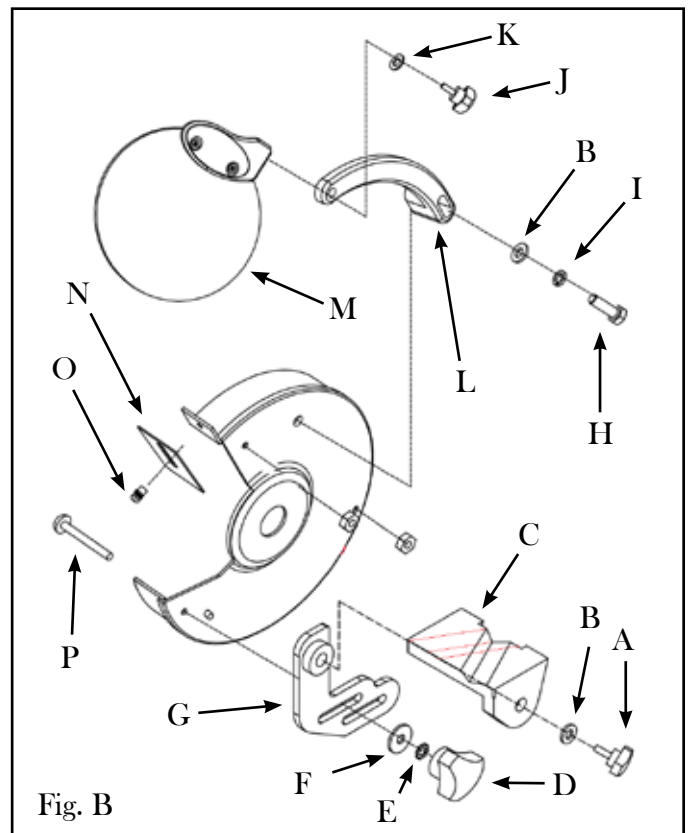


Fig. B

ASSEMBLY

MOUNTING TO THE WORK SURFACE (FIG. 7)

The bench grinder should be firmly attached to a reliable work surface using mounting hardware (not included) through the base of the grinder's mounting holes.. This will prevent the bench grinder from vibration, walking or tipping during operation.

NOTE: This bench grinder is compatible with the WEN 4288 Cast Iron Bench Grinder Pedestal Stand.

1. Prepare 1/4 in. bolts, flat washers, lock washers and hex nuts (not included). The bolt length should be 1-1/2 in. longer than the thickness of the workbench.
2. Locate and mark the holes where the grinder is to be mounted onto the work surface. **NOTE:** If mounting to a work bench, drill four 3/8 in. diameter holes through the workbench.
3. Place the bench grinder onto the workbench, aligning holes in base with holes in the workbench.
4. Insert four 1/4 in. diameter bolts and washers and attach with nuts securely.

OPERATION

BASIC OPERATION

1. To operate the bench grinder, always wear safety glasses and stand to the side of the grinder (as opposed to in front) before turning the tool on.
2. Turn the ON/OFF switch to the ON position. Once the tool is up and running, allow it to reach full speed before grinding. This will take about 15 seconds (Fig. 9).
3. Hold the work piece firmly against the tool rest. Hold very small pieces with pliers or other suitable clamps.
4. Choose the suitable grinding wheel for you operation. The 60 grit wheel is good for small material removal and sharpening. The 120 grit wheel is good for extremely fine removal.
5. Feed the work piece smoothly and evenly into the grinding wheel. Move the workpiece back and forth at an even pace to make for even grinding and prevent burning any one area of the surface.

NOTE: Sparks are normal during grinding operations. Protect yourself and the surrounding environment from flying sparks.

6. Move the work piece slowly and avoid forcing the workpiece against the grinding 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. **NOTE:** Excessive pressure may damage the tool, cause the motor to overheat, and prematurely wear down the grinding wheel.
7. Grind only on the face of the grinding wheel; never on the side of it.
8. Regularly place the hot end of the workpiece into the coolant tray to cool it off.
9. Turn the ON/OFF switch to "O". The wheels will take about 3 minutes and 20 seconds to come to a full stop. Avoid contact with the bench grinder's housing until it has stopped and cooled down completely. Unplug the tool from the power source.

OPERATION

SHARPENING LAWN MOWER BLADES (Fig. C)

Lawn mower blades are usually sharpened on only one edge and dressed up slightly on the other. Perform this sharpening process on both cutting ends of the blade.

After sharpening, be sure to balance the blade by removing additional material from the heavy end. Unbalanced blades can cause serious crank shaft damage to your lawn mower. There are a number of inexpensive cone balancers on the market for this purpose. Alternatively, you can balance the blade using a screwdriver that is secured onto a vise as shown.

NOTE: Always remove spark plug wires or battery from the mower before servicing the blades to prevent accidental start-ups.

SHARPENING CHISELS & FLATHEAD SCREWDRIVERS (Fig. D)

The end of a properly sharpened chisel or 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 end. 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.

SHARPENING DRILL BITS (Fig. E)

Use the grooved work rest to provide angled support to drill bits during grinding operation. The angled groove running through the work rest allows for a cradle for drill bits during sharpening operations.

For better sharpening results, you can use a sharpening jig (available at most hardware stores). Begin on one side of the point at the existing angle, then twist the bit while maintaining contact with the grinding surface. Sharpen only the tip of the drill bit.

SHARPENING KNIVES

Working from the heavy end of the blade towards the tip to remove metal from both faces of the knife.

SHARPENING 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.

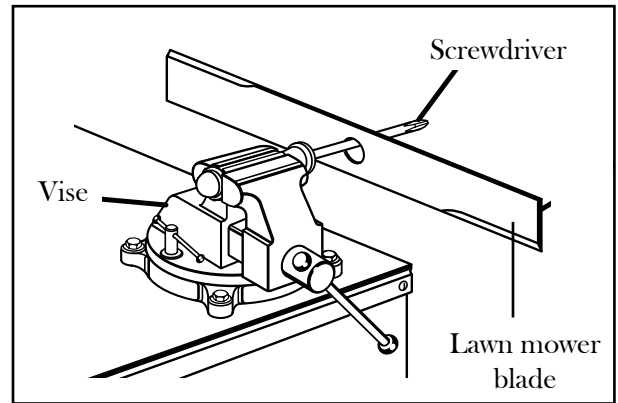


Fig. C

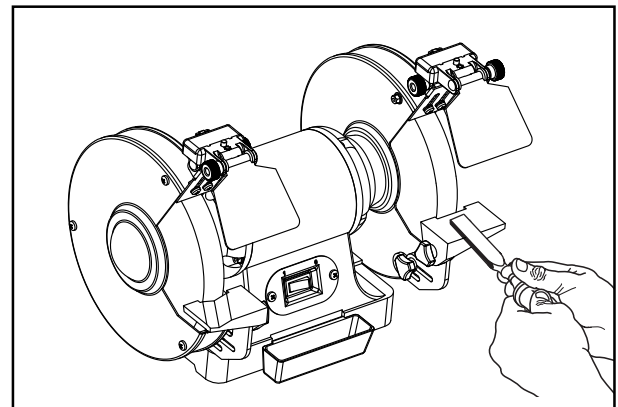


Fig. D

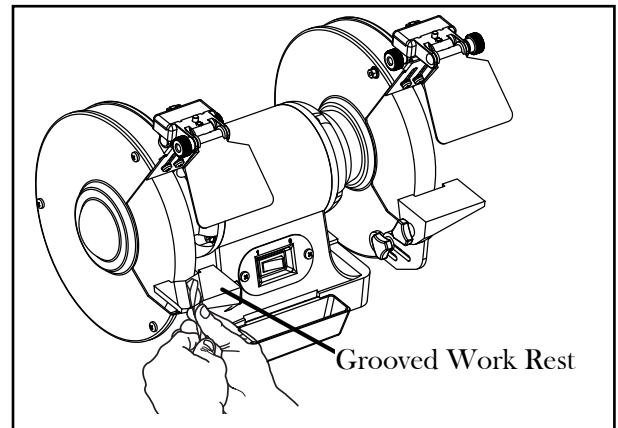


Fig. E

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 grinder.

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 grinder's operation. If any of these conditions exist, do not use until parts are replaced or the grinder 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.
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, 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.

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.

Compatible with the WEN 858WW 8-Inch Wire Wheel

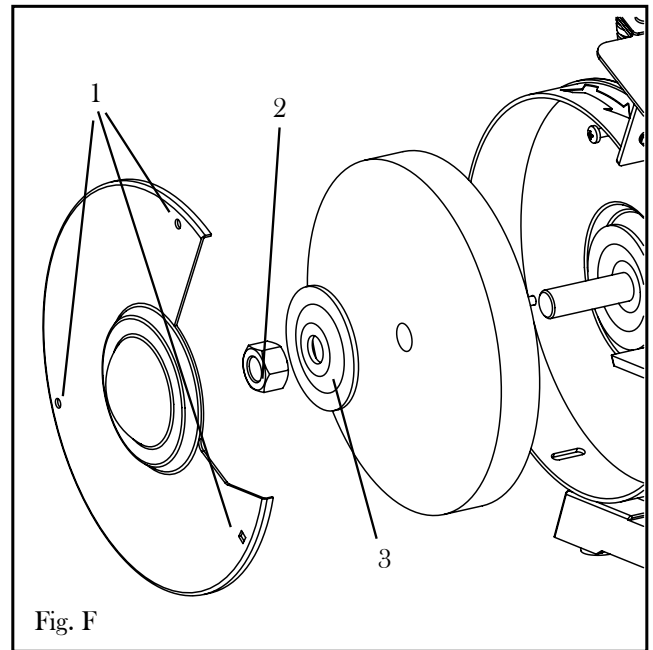
MAINTENANCE

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.

REPLACING THE GRINDING WHEELS

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 remove the tool rest from the grinding wheel. (Refer to Tool Rest Assembly on Page 8)
4. Remove the carriage bolt and two screws (Fig. F - 1) found around the outside of the wheel guard in order to remove the wheel cover. Repeat for the other side.



5. Using 2 15/16-inch or 24mm wrenches, remove the arbor hex nut (Fig. F - 2) found on the outside edge of the grinding wheel. Use a snapping motion to loosen the nut.

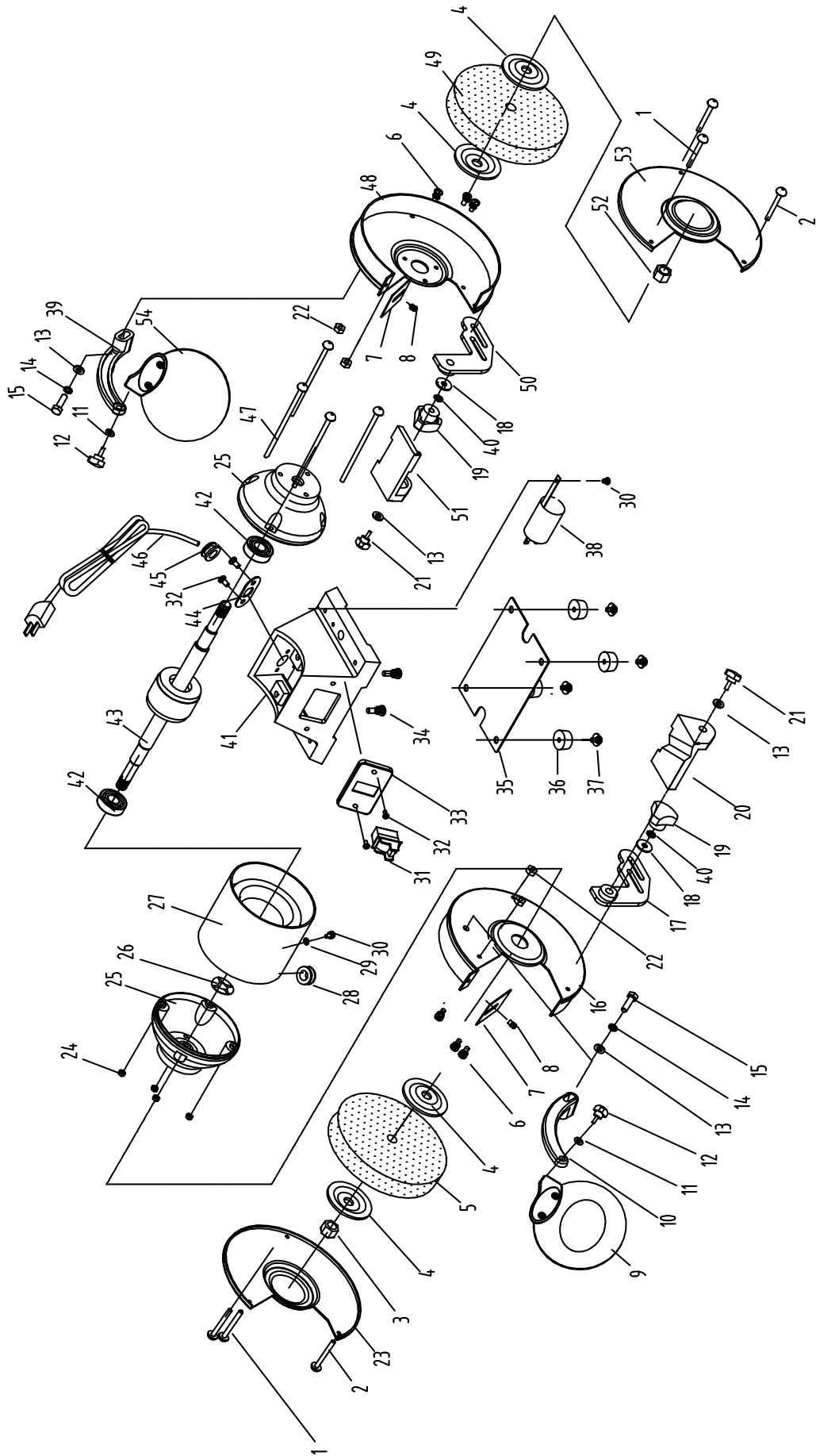
NOTE: The left side hex nut is loosened by using a clockwise wrench rotation while the right side hex nut is loosened with a counterclockwise rotation. If you are having difficulty with the two-wrench method, you may try holding one wheel while loosening the nut. Wear gloves if you decide to use this method to avoid scraping your hand or fingers.

6. Remove the outer wheel flange (Fig. F - 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 1750 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.

NOTE: Tightening the grinding wheels should not be done with an impact driver or drill, as over-tightening may damage the grinding wheel. It should be done by “snapping” the wrench with a quick motion to bring it to full tightness. This can be done by (with gloved hands) holding the grinding wheel on the same side you’re tightening (so if tightening the left nut, hold the left wheel). If you are having difficulty tightening both nuts, try removing one nut from the arbor entirely, and tightening the other nut as tight as possible while holding the opposite end of the exposed arbor with a pair of locking pliers or a similar tool. Once it is tight, reattach the other nut and bring to proper tightness.

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. If the nut cannot be tightened any more with the wrench, it is properly tightened.
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.

EXPLODED VIEW & PARTS LIST



EXPLODED VIEW & PARTS LIST

No.	Part No.	Description	Qty
1	4286-001	Screw (M5x48)	4
2	4286-002	Bolt (M5x51)	2
3	4286-004	I Type Hex Nut (M16 Left)	1
4	4286-005	Flange	4
5	4286-006	Grinding Wheel #120 (P200x25x15.88)	1
6	4276-013	Screw (M5x10)	6
7	4286-009	Spark Deflector	2
8	4276-011	Screw (M5x10)	2
9	4286-011	Left Eye Shield Assembly	1
10	4286-012	Left Eye Shield Rod	1
11	4286-010	Flat Washer (D5)	2
12	4276-005	Eye Shield Locking Knob (2)	2
13	4286-014	Flat Washer (D6)	4
14	4276-002	Spring Washer (D6)	2
15	4276-001	Hex Bolt (M6x30)	2
16	4286-017	Left Wheel Guard	1
17	4286-019	Left Toolrest Support	1
18	4286-020	Big Flat Washer (D5)	2
19	4286-021	Work Rest Locking Knob	2
20	4286-022	Left Movable Work Rest	1
21	4286-023	Work Rest Locking Knob	2
22	4276-008	Hex Nut (M5)	4
23	4286-003	Left Wheel Guard Cover	1
24	4286-018	Hex Nut (M5)	4
25	4286-024	End Shield	2
26	4286-025	Wave Washer (D40)	1
27	4286-026	Stator	1
28	4276-023	Grommet	1
29	4276-024	Lock Washer (D4)	1
30	4276-033	Screw (M4x8)	2
31	4286-032	Switch	1
32	4286-033	Screw (M5x8)	4
33	4286-034	Switch Plate	1
34	4286-036	Screw (M8x20)	2
35	4286-037	Bottom Plate Cover	1
36	4286-038	Rubber Feet	4
37	4286-039	Screw (M5x16)	4
38	4286-040	Capacitor	1
39	4286-049	Right Eye Shield Support	1
40	4286-008	Lock Washer (D5)	2
41	4286-045	Base (1)	1
42	4286-043	Bearing (204)	2
43	4286-044	Rotor	1
44	4286-046	Cord Plate	1
45	4276-041	Strain Relief	1
46	4276-043	Power Cord	1
47	4286-051	Screw (M5x148)	4
48	4286-054	Right Wheel Guard	1
49	4286-055	Grinding Wheel #60 (P200x25x15.88)	1
50	4286-053	Right Fixed Work Rest	1
51	4286-052	Right Movable Work Rest	1
52	4286-056	I Type Hex Nut (M16 Right)	1
53	4286-057	Right Wheel Guard Cover	1
54	4286-050	Right Eye Shield Assembly	1

TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
The motor won't start.	<ol style="list-style-type: none"> 1) Low voltage 2) Loose connections or open circuit in the motor. 3) Blown fuse/breaker. 	<ol style="list-style-type: none"> 1) Make sure the power source is providing the proper voltage. 2) Inspect the motor for loose or open connections. Send for servicing if found. 3) Replace the fuse or reset the breaker
The motor is getting way too hot.	<ol style="list-style-type: none"> 1) Overloaded motor 2) Extension cord too long or not thick enough. 	<ol style="list-style-type: none"> 1) Reduce load on the motor. 2) 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.	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 1) Check the connections on the motor for loose or shorted terminals/worn insulation. Send for servicing if found. 2) Fix voltage supply; possibly an issue with the extension cord or possibly the power source. 3) Install the correct fuses or circuit breakers. Plug tool into an appropriate circuit, matched with an appropriate fuse/breaker. 4) Reduce the load.
Stropping wheel performance decreases	<ol style="list-style-type: none"> 1) Insufficient wheel preparation (lack of oil and paste) 2) Damaged wheel 	<ol style="list-style-type: none"> 1) Prepare the wheel 2) Change out the wheel
Wavy condition on the surface of a workpiece	<ol style="list-style-type: none"> 1) Machine is vibrating 2) Workpiece isn't held in place firmly 3) Wheel face uneven 	<ol style="list-style-type: none"> 1) Make sure the machine is securely positioned on a level surface. 2) Use a holding device to firmly retain the workpiece. 3) Dress the grinding wheel.
Machine runs too loud during operation.	Lack of lubricating grease	Add lubricating grease to the gear.

LIMITED TWO YEAR WARRANTY

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

LIMITED WARRANTY OF WEN CONSUMER POWER TOOLS PRODUCTS FOR HOME USE

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

SELLER’S SOLE OBLIGATION AND YOUR EXCLUSIVE REMEDY under this Limited Warranty and, to the extent permitted by law, any warranty or condition implied by law, shall be the repair or replacement of parts, without charge, which are defective in material or workmanship and which have not been misused, carelessly handled, or misrepaired by persons other than Seller or Authorized Service Center. To make a claim under this Limited Warranty, you must make sure to keep a copy of your proof of purchase that clearly defines the Date of Purchase (month and year) and the Place of Purchase. Place of purchase must be a direct vendor of Great Lakes Technologies, LLC. Third party vendors such as garage sales, pawn shops, resale shops, or any other secondhand merchant void the warranty included with this product. Contact techsupport@wenproducts.com or 1-800-232-1195 to make arrangements for repairs and transportation.

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

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