

WEN[®] Operation/Instruction Manual

Mini Rotary Tool Kit #2303



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.



CAUTION: Carefully read through this entire operator's manual before using your new tool.

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.

SAVE THIS MANUAL FOR FUTURE REFERENCE

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TECHNICAL DATA

MINI ROTARY TOOL KIT

MODEL NUMBER:	2303
RATING	12V DC
INPUT	500 MA
SPEED (ORBITS/MIN.)	16,000
WEIGHT	1.32lbs.

Rules for Safe Operation

The purpose of safety symbols is to attract your attention to possible dangers. The safety symbols, and the explanations with them, deserve your careful attention and understanding. The safety warnings do not by themselves eliminate any danger. The instructions or warnings they give are not substitutes for proper accident prevention measures.

Symbol	Meaning
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Safety Alert Symbol:

Indicates danger, warning, or caution, may be used in conjunction with other symbols or pictographs. Always follow the safety precautions to reduce the risk of fire, electric shock and personal injury.

Note: Advises you of information or instructions vital to the operation or maintenance of the equipment

IMPORTANT

Servicing requires extreme care and knowledge and should be performed only by a qualified service technician. For service we suggest you return the tool to **WEN PRODUCTS** a division of **Great Lakes Tool Mfg., Inc.** for repair. When servicing, use only identical WEN® replacement parts.



WARNING:

Do not attempt to operate this tool until you have read thoroughly and understand completely all instructions, safety rules, etc...contained in this manual. Failure to comply can result in accidents involving fire, electric shock, or serious personal injury. Save this operator's manual and review frequently for continuing safe operation and instructing others who may use this tool.

Safe operation of this power tool requires that you read and understand this operator's manual and all labels affixed to the tool. Safety is a combination of common sense, staying alert, and knowing how your tool works.

GENERAL INSTRUCTIONS FOR ALL POWER TOOLS

READ ALL INSTRUCTIONS!!!

- Know your power tool. Read the operator's manual carefully. Learn the application and limitations as well as specific potential hazards related to this tool.
- Keep guards in place and in working order. Never operate the tool with any guard or cover removed. Make sure all guards are operating properly before each use.
- Remove adjusting keys & wrenches. Form a habit of checking to see keys and adjusting wrenches are removed from tool before turning it on.
- Keep work area clean. Cluttered work areas and work benches invite accidents.
- Do not use in dangerous environments. Do not use power tools near gasoline or other flammable liquids, in damp or wet locations or expose them to rain. Keep work area well lighted.
- Keep children and visitors away. All visitors should wear ANSI-Z87.1 approved safety glasses and be kept a safe distance from work area.
- Make workshop childproof with padlocks, master switches, or by removing starter keys.
- Don't force the tool. It will do the job better and safer at the rate for which it was designed.
- Use the right tool. Do not force the tool or attachment to do a job for which it was not designed.

- Wear proper apparel. Do not wear loose clothing, neckties, or jewelry that can get caught in the tool's moving parts and cause personal injury. Non-slip footwear is recommended when working outdoors. Wear protective hair covering to contain long hair.
- Always wear ANSI-Z87.1 approved safety glasses with side shields. Everyday eyeglasses have only impact-resistant lenses; they are NOT safety glasses.
- Secure work. Use clamps or a vise to hold work when practical. It's safer than using your hand and it frees both hands to operate the tool.
- Do not overreach. Keep proper footing and balance at all times.
- Maintain tools with care. Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
- Disconnect all tools. When not in use, before servicing, or when changing attachments, blades, bits, cutters, etc..., all tools should be disconnected from power source.
- Reduce the risk of unintentional starting. Be sure switch is off when plugging in.
- Use recommended accessories. Consult the operator's manual for recommended accessories. The use of improper accessories may cause risk of injury.
- Never stand on tool. Serious injury could occur if the tool is tipped or if the blade is unintentionally contacted.
- Direction of feed. Feed work into a blade or cutter against the direction or rotation of the blade or cutter only
- Never leave tool running unattended. Turn power off. Don't leave tool until it comes to a complete stop.

- Check damaged parts. Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding or moving parts, breakage of parts, mounting and any other condition that may affect its operation. A guard or other part that is damaged must be properly repaired or replaced by an authorized service center to avoid risk of personal injury.
- Protect your hearing. Wear hearing protection during extended periods of operation.
- Keep tools dry, clean, and free from oil and grease. Always use a clean cloth when cleaning. Never use brake fluids, gasoline, petroleum-based products, or any solvents to clean tool.
- **PROTECT YOUR LUNGS.** Wear a face or dust mask if the operation is dusty.



WARNING: Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints
- Crystalline silica from bricks and 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, and work with approved safety equipment, such as those dust mask that are specially designed to filter out microscopic particles.

- Guard against electrical shock by preventing body contacting with grounded surfaces. For example: pipes, radiators, ranges, refrigerator enclosures.

- Inspect tool cords and extension cords periodically and, if damaged, have repaired by a qualified service technician. Stay constantly aware of cord location and keep it away from the rotating wheel.
- Never use in an explosive atmosphere. Normal sparking of the motor could ignite fumes.
- Use only outdoor extension cords with approved ground connection that are intended for use outdoors and so marked.
- Avoid awkward operations and hand positions where a sudden slip could cause your hand to move into the blade. ALWAYS make sure you have good balance.
- Allow the motor to come up to full speed before working.
- Do not use tool if switch does not turn it on and off. Have defective switches replaced by an authorized service center.
- Replacement parts. All repairs, whether electrical or mechanical, should be made by a qualified service technician at an authorized service center.



WARNING: when servicing use only identical WEN® replacement parts. Use of any other part may create a hazard or cause product damage.



DO NOT OPERATE THIS TOOL WHILE UNDER THE INFLUENCE OF DRUGS, ALCOHOL OR ANY MEDICATION THAT MAY IMPAIR YOUR JUDGMENT OR CONTROL!

- Stay alert and exercise control. Watch what you are doing and use common sense. DO NOT operate tool when you are tired. DO NOT RUSH!

- Make sure work area has ample lighting to see the work and that no obstructions will interfere with safe operation BEFORE performing any work using your saw.
- Save these instructions. Refer to them frequently and use them to instruct other users. If you loan someone this tool, loan them these instructions also.
- Use the proper extension cord. 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. A wire gauge size (A.W.G.) of at least 16 is recommended for an extension cord 25 feet or less in length. If in doubt, use the next heavier gauge. The smaller the gauge number is, the heavier the cord is.
- Don't abuse cord. Never carry tool by the cord or yank it to disconnect from receptacle. Keep cord from heat, oil, and sharp edges.

EXTENSION CORDS

In the event of a malfunction or breakdown, grounding provides a path or least resistance for electric current and reduces the risk of electrical shock. Tools equipped with an electrical cord having an equipment-grounding conductor 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 in any way. If the plug does not fit the outlet, have the proper outlet installed by a qualified electrician.

The use of any extension cord will cause some loss of power. To keep this to a minimum and to prevent overheating and motor burn-out; use the table below to determine the **minimum** wire size (A.W.G.) extension cord.

Use only three (3) wire extension cords that have three (3) prong grounding plugs, and three (3) pole receptacles that accept the tool's plug.

AMERICAN WIRE GAUGE RATING CHART

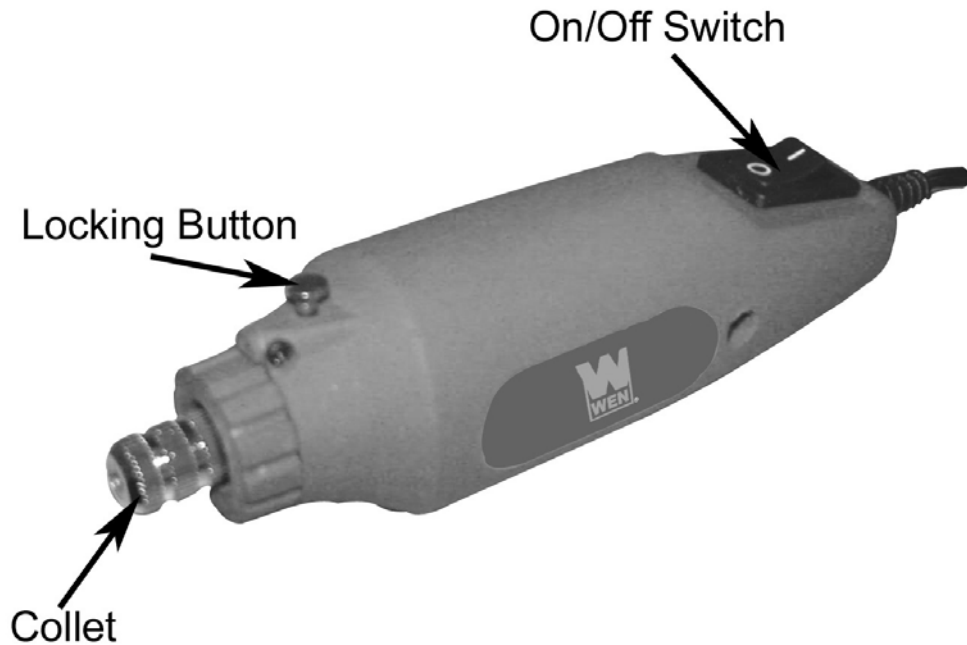
EXTENSION CORD LENGTH (FEET)	25	50	75	100	125	150	175	200
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AMPS	AWG							
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0 to 10.0	18	18	16	16	14	14	12	12
10.1 to 13.0	16	16	14	14	14	12	12	12
13.1 to 15	14	12	12	12	12	12	12	NA
15 to 18	14	12	12	12	12	12	NA	NA

SAVE THESE INSTRUCTIONS!

DESCRIPTION



OPERATION

Always keep ventilation slots clean and clear.

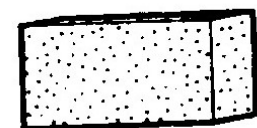
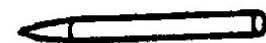
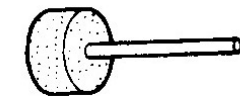
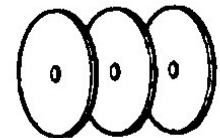
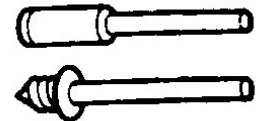
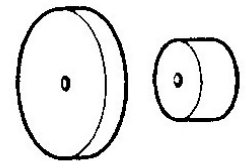
Before changing any accessories always check whether the machine is switched off.

1. Press the locking button down and hold it.
2. Insert the required tool into the drill chuck and screw the chuck down.
3. Release the locking button.
4. Connect the machine to a 12V-DC power source and switch it on (position of switch to "I"). The tool must turn clockwise. Otherwise you need to change the polarity of the supply voltage.
5. Try the machine on a test piece first.
6. Let your machine work by itself, only guide it, do not impose too much pressure on it.

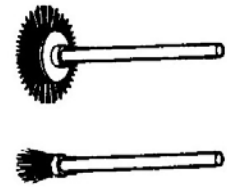
7. After finish working switch the machine off again (position of switch to "0").

ACCESSORIES

- Polishing wheels: Use to polish work-pieces made of metal and plastic. Use one of the provided mandrels to assemble.
- Mandrels: Shafts with screw or threaded head, which are designed for retaining grinding and polishing wheels.
- Cutting-off wheels: Use to cut work-pieces made of metal, plastic, wood or stone. Use one of the provided mandrels to assemble. The cutting-off wheel only cuts with the outer edge.
- Grinding belts: Use to grind or smooth work-pieces made of wood or glass fibre material. Use with the provided grinding drum.
- Grinding stones: Use for surface treatment of metal parts, cast-metal parts, welding seams and for the removal of rust.
- Different shapes are available.
- Diamond polisher: Use for fine work on wood, ceramics, glass, steel and other hard metals.
- Drill bits: Use for drilling holes in work-pieces made of plastic, wood or metal.
- Whetstone: Use for cleaning and whetting grinding stones, if their surface has become irregular or dirty.



- Wire brushes: Use for effective cleaning of work-pieces made of metal and stone. Do not use the wire brush for cleaning jewellery or parts made of soft metal.



Limited One-Year Warranty

WEN Products, a division of Great Lakes Tool Mfg Inc, warrants its power tools to be free of defects from workmanship and materials for a period of one year from date of original purchase. We will repair or replace, at our option, any tool covered by this warranty that after inspection is found to be defective in materials or workmanship during the warranty period.

This warranty does not apply if the tool has been misused, abused, subject to an accident, altered, repaired by others not authorized and is used in commercial or rental applications. Normal wear and tear is also not covered by this warranty.

To take advantage of this warranty, please contact us at 1-888-315-3080 or write to us at 501 Davis Rd, Elgin, IL 60123. You will need proof of purchase and be asked to ship the tool back to us freight prepaid.

Under no circumstances shall WEN Products/Great lakes Tool Mfg Inc be liable for any indirect, incidental or consequential damages from the sale or use of this product. Some states do not allow the exclusion or limitation of incidental or consequential damages. Some states do not allow limitations on the length of an implied warranty. This warranty provides you with specific legal rights and you may have other rights that vary from state to state.