



# **OPERATOR'S MANUAL**

## **Variable Speed Multi Tool Kit**

**Item # 2312**



**⚠ IMPORTANT:**

You new WEN<sup>®</sup> tool/equipment has been engineered and manufactured to high standards for dependability, ease of operation, and operator safety. Properly cared for, it will give you years of rugged, trouble-free performance.



**It's not how, it's WEN the project get's done.**  
**Contact us for product questions or technical support.**



**Wenproducts.com**



**800-232-1195 M-F 8-5 (CST)**



**techsupport@wenproducts.com**



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## SPECIFICATIONS

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### Variable Speed Multi Tool Kit

|                    |                   |
|--------------------|-------------------|
| Item #:            | 2312              |
| Motor:             | 120V AC, 60 Hz    |
| Current Rating:    | 1.8AMP            |
| Variable Speed:    | 15,000-21,000 OPM |
| Oscillation Angle: | 1.5° (Left/Right) |
| Weight:            | 4.8 lbs           |

## GENERAL SAFETY RULES

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

1. Work area safety
  - a. Keep work area clean and well lit. Cluttered or dark areas invite accidents.
  - b. 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.
  - c. Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.
  
2. Electrical safety
  - a. Power tool Plugs must match the outlet. Never modify the Plug in any way. Do not use any adapter plugs with grounded power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
  - b. Avoid body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is grounded.
  - c. Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
  - d. Do not abuse the Power 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.
  - e. 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.
  - f. 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.
  
3. Personal safety
  - a. 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.
  - b. Use personal protective equipment. Always wear ANSI-approved safety goggles. Safety equipment such as NIOSH-approved dust mask/respirator, NIOSH-approved hearing protection, and heavy duty work gloves will reduce personal injuries.
  - c. Prevent unintentional starting. Ensure the Power Switch is in the off-position before connecting to the power source or picking up or carrying the tool. Carrying power tools with your finger on the Power Switch invites accidents.
  - d. Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to an oscillating part of the power tool may result in personal injury.

- e. Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- f. Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry or long hair can be caught in moving parts.

#### 4. Power tool use and care

- a. 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.
- b. Do not use the power tool if the Power Switch does not turn it on and off. Any power tool that cannot be controlled with the Switch is dangerous and must be repaired.
- c. Disconnect the Power Cord from the power source before making any adjustments, changing accessories, or storing the power tool. Such preventive safety measures reduce the risk of starting the power tool accidentally.
- d. 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.
- e. 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.
- f. Keep cutting accessories sharp and clean. Properly maintained cutting accessories with sharp cutting edges are less likely to bind and are easier to control.
- g. Use the power tool and its accessories 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.

#### 5. Service

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.

## SPECIFIC SAFETY WARNINGS

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1. Maintain labels and nameplates on the power tool. These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.
2. CAUTION: Avoid accidental injury. Keep hands and fingers safely away from the oscillating Angled Scraper (4), Blades (501, 503), and Sanding Pad (502) when operating the Tool.
3. Avoid unintentional starting. Prepare to begin work before turning on the power tool.
4. Do not lay the power tool down until it has come to a complete stop. Moving parts can grab the surface and pull the tool out of your control.
5. When using a handheld power tool, maintain a firm grip on the tool with both hands to resist starting torque.
6. Do not leave the power tool unattended when it is plugged into an electrical outlet. Turn off the tool, and unplug it from its electrical outlet before leaving.
7. This product is not a toy. Keep it out of reach of children.
8. People with pacemakers should consult their physician(s) before use. Electromagnetic fields in close proximity to heart pacemaker could cause pacemaker interference or pacemaker failure. In addition, people with pacemakers should:
  - a. Avoid operating alone.
  - b. Do not use with power switch locked on.
  - c. Properly maintain and inspect to avoid electrical shock.
  - d. Any power cord must be properly grounded. Ground Fault Circuit Interrupter (GFCI) should also be implemented – it prevents sustained electrical shock.
9. Some dust created by power sanding, sawing, grinding, drilling, and other construction activities, contains chemicals known [to the State of California] to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:
  - a. Lead from lead-based paints
  - b. Crystalline silica from bricks and cement or other masonry products
  - c. Arsenic and chromium from chemically treated lumberYour 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 masks that are specially designed to filter out microscopic particles. (California Health & Safety Code § 25249.5, et seq.)
10. Handling the Power Cord on this product will expose you to lead, a chemical known to the State of California to cause cancer, and birth defects or other reproductive harm. Wash hands after handling. (California Health & Safety Code § 25249.5, et seq.)
11. The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

## VIBRATION SAFETY

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This power tool vibrates during use. Repeated or long-term exposure to vibration may cause temporary or permanent physical injury, particularly to the hands, arms and shoulders. To reduce the risk of vibration-related injury:

1. Anyone using vibrating power tools regularly or for an extended period should first be examined by a doctor and then have regular medical check-ups to ensure medical problems are not being caused or worsened from use. Pregnant women or people who have impaired blood circulation to the hand, past hand injuries, nervous system disorders, diabetes, or Raynaud's Disease should not use this tool. If you feel any medical or physical symptoms related to vibration (such as tingling, numbness, and white or blue fingers), seek medical advice as soon as possible.
2. Do not smoke during use. Nicotine reduces the blood supply to the hands and fingers, increasing the risk of vibration-related injury.
3. Wear suitable gloves to reduce the vibration effects on the user.
4. Use power tools with the lowest vibration when there is a choice between different processes.
5. Include vibration-free periods each day of work.
6. Grip the power tool as lightly as possible (while still keeping safe control of it). Let the tool do the work.
7. To reduce vibration, maintain the power tool as explained in this manual. If any abnormal vibration occurs, stop use immediately.

## ELECTRICAL INFORMATION

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

### Guidelines for using extension cords

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

**Minimum Gauge for Extension Cords (AWG)**  
(When using 120 V only)

| Ampere Rating |               | Total Length of Cord in feet |    |                 |     |
|---------------|---------------|------------------------------|----|-----------------|-----|
| More Than     | Not More Than | 25                           | 50 | 100             | 150 |
| 0             | 6             | 18                           | 16 | 16              | 14  |
| 6             | 10            | 18                           | 16 | 14              | 12  |
| 10            | 12            | 16                           | 16 | 14              | 12  |
| 12            | 16            | 14                           | 12 | Not Recommended |     |

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

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

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



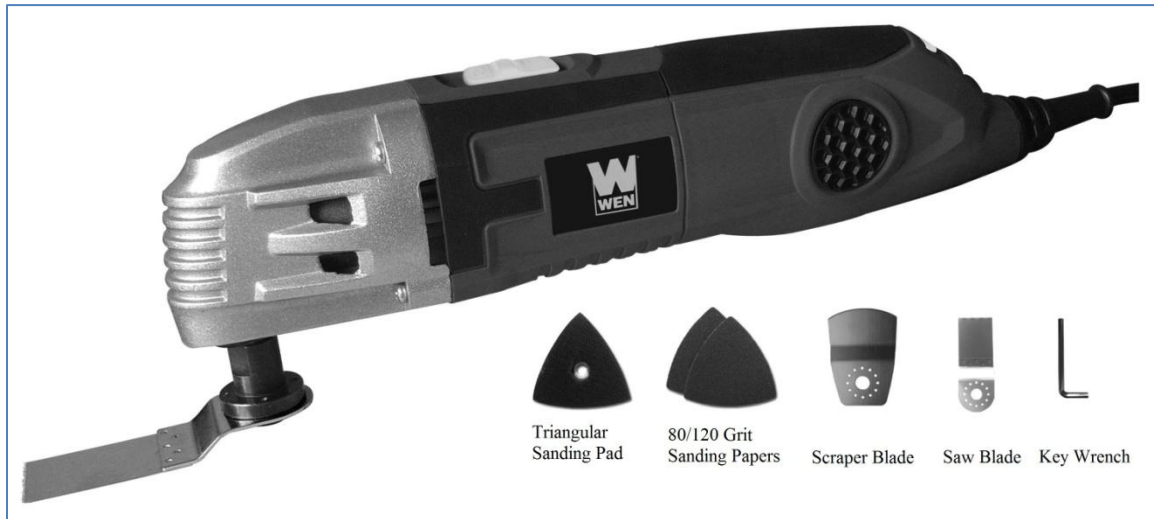
**WARNING:** This tool must be grounded while in use to protect the operator from electric shock.



# ASSEMBLY

## Unpacking

When unpacking, check to make sure that the item is intact and undamaged. If any parts are missing or broken, please call our customer service at 1-800-232-1195.



## Assembly Instructions

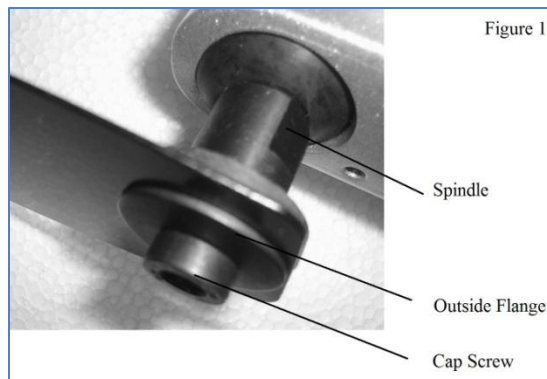


**Warning:** To Prevent Serious Injury From Accidental Operation: Turn the power switch of the tool to its “OFF” position and unplug the tool from its electrical outlet before assembling or making any adjustments to the tool.

**Note:** For additional information regarding the parts listed in the following pages, refer to the Exploded View and Parts List near the end of this manual.

Prior to attaching or removing any one of the attachments, turn off the unit and unplug the tool from its electrical source.

Place attachment over Spindle shoulder and facing forward. Insert the Cap Screw into the Outside Flange. Tighten the cap screw using the provided Key Wrench. Torque firmly (**Approximately 100 in-lbs**). (Figure 1)



**Note:** Some units may have small holes in the attachments and/or pins on the spindle shoulder. These are not used or required for this model.

# OPERATION

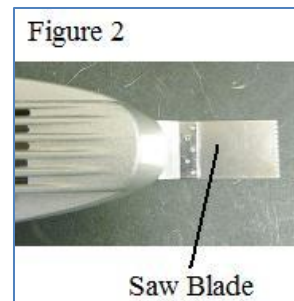
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## Work Piece and Work Area Set Up

1. Designate a work area that is clean and well-lit. The work area must not allow access by children or pets to prevent injury and distraction.
2. Route the Power Cord along a safe route to reach the work area without creating a tripping hazard or exposing the Power Cord to possible damage. The Power Cord must reach the work area with enough extra length to allow free movement while working.
3. Secure loose work pieces using a vise or clamps (not included) to prevent movement while working.

## General Operating Instructions

1. The tool works by oscillating rapidly. Do not force the tool. Allow the tool to cut or do its job.
2. Attachments may be mounted at angles up to 90° left or right. The attachment should not turn on the spindle. If it does, make sure that the cap screw is tight. Note: The long Saw Blade should only be used in the straight ahead position. (Figure 2)
3. Retract the Power Switch to its off position. Then connect the tool into the nearest 120 volt, grounded electrical outlet.
4. To turn on the tool, slide the Power Switch forward.
5. Adjust the speed of the tool using the Speed Dial. There are six speed divisions from 1 (slowest) to 6 (fastest).
6. Do not allow contact between the Sanding Paper, Scraper Blade, or Saw Blade and work piece until the tool is running at full speed.
7. Avoid contact with foreign objects such as metal screws and nails when sanding, scraping, or cutting.
8. Do not apply excessive pressure on the tool.
9. When finished, turn off the tool and allow it to completely stop before setting it down. Then unplug the tool from its electrical outlet.
10. To replace the sanding paper, simply pull it off the pad. Prior to storing the tool, remove the attachment and wipe it clean. Store the Tool in a clean, dry, safe location out of reach of children and other unauthorized persons.



## MAINTENANCE

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Procedures not specifically explained in this manual must be performed only by a qualified technician.



**Warning:** To Prevent Serious Injury From Accidental Operation:

Turn the power switch of the tool to its “OFF” position and unplug the tool from its electrical outlet before performing any inspection, maintenance, or cleaning procedures.

To prevent serious injury from tool failure:

1. Before each use, inspect the general condition of the tool. Check for loose screws, misalignment or binding of moving parts, cracked or broken parts, damaged electrical wiring, and any other condition that may affect its safe operation. The sanding paper should not be dull or contain excessive debris build-up. The scraper blade and saw Blade should be clean and sharp.
2. After Use, clean external surfaces of the tool with clean cloth.



**Warning:** If the power cord of this tool is damaged, it must be replaced only by a qualified service technician.

## TROUBLESHOOTING

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| <b>Problem</b>                   | <b>Causes</b>   | <b>Solutions</b>   |
|----------------------------------|---|--|
| Tool will not start.             | Power cord not connected.<br>No power at outlet.<br><br>Internal damaged or wear.<br>(carbon brush or switch) | Check that power cord is plugged in.<br>Check power at outlet. If outlet is unpowered, turn off tool and check circuit breaker.<br>Have technician service tool.           |
| Attachment is loose on the tool. | Holes on attachment not line up with pins on spindle.<br><br>Screw (Part# 1) not tight enough.                | Remove the attachment and re-mount, making sure that the holes in the attachment are secured over the pins on the spindle.<br>Tighten this screw to at least 100 inch-lbs. |
| Tool operates slowly.            | Extension cord too long or wire size too small.   | Eliminate use of extension cord. If an extension cord is needed, use shorter/heavier gauge cord. See ELECTRICAL INFORMATION section.                                       |
| Performance decreases over time. | Attachment dull or damaged.<br><br>Carbon brushes worn or damaged.  | Keep cutting accessories sharp.<br>Replace as needed.<br>Have technical replace brushes.   |
| Excessive noise or ratting.      | Internal damage or wear.  | Have technical service tool.   |
| Overheating                      | Forcing tool to work.<br>Attachment dull or damaged.<br><br>Blocked motor housing vents.                      | Allow tool to work at its own rate.<br>Keep cutting accessories sharp.<br>Replace as needed.<br>Blow dust out of motor using compressed air.                               |

## **EXPLODED VIEW**

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## **PARTS LIST**

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# **WARRANTY STATEMENT**

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## **LIMITED ONE YEAR WARRANTY**

WEN Products is committed to build 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 one (1) year 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, please contact us at 1-800-232-1195 or write to us at WEN Products, 501 Davis Road, Elgin, IL 60123. To acquire service, you will have to provide proof of purchase and may be asked to ship the tool back to us freight prepaid.

THIS LIMITED WARRANTY DOES NOT APPLY TO ACCESSORY ITEMS SUCH AS CIRCULAR SAW BLADES, DRILL BITS, ROUTER BITS, JIGSAW BLADES, SANDING BELTS, GRINDING WHEELS AND OTHER RELATED ITEMS.

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