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Part #32488

# VARIABLE SPEED 7"-9" SANDER/POLISHER INSTRUCTIONS



The **EASTWOOD VARIABLE SPEED 7-9" SANDER/POLISHER** is built to high quality standards to provide long life and smooth operation to serve the demands of the avid hobbyist and seasoned professional alike.

Features a soft-start trigger response to minimize polish spatter and an accurate, variable speed electronic speed control to help avoid paint surface damage or burn-through. The spindle accepts all accessory pads with 5/8"-11 threads.

## INCLUDES

- (1) Buffer/Polisher
- (1) Auxiliary Side Handle
- (1) "D" Handle
- (1) 7" Hook & Loop-Faced Backing Pad
- (1) 7" H&L Sanding Disc, 120 Grit
- (1) 7" Tie-on, Buffering Bonnet
- (2) M6 Socket Head Cap Screws
- (1) 6mm Hex Key
- (2) Replacement Motor Brushes



## SPECIFICATIONS

**Power Requirements:** 120 Volts AC, 60Hz, 10 Amps

**Spindle Size:** 5/8"-11 Male Thread

### Replacement

**Thread-on Arbor Size:** 5/8"-11 Female Thread, 9" Max. Diameter, 3000 RPM minimum rating

**Motor Speed; Variable:** 1000 to 3000 RPM

### Soft-Start Motor Startup

**Power Cord:** 16 Ga., Length = 10'

# SAFETY INFORMATION

## **DANGER**

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

## **WARNING**

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

## **CAUTION**

CAUTION used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

## **NOTICE**

NOTICE is used to address practices not related to personal injury.

# GENERAL SAFETY RULES

## **WARNING**

Read all instructions. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury. The term "power tool" in all of the warnings listed below refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

# SAVE THESE INSTRUCTIONS

## 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 earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- b)** 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.
- 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 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.

## **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 safety equipment. Always wear eye protection. Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- c)** Avoid accidental starting. Ensure the switch is in the off-position before plugging in. Carrying power tools with your finger on the switch or plugging in power tools that have the switch on invites accidents.
- d)** 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.
- 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.
- g)** If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of these devices can reduce dust-related hazards.

#### 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 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 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.
- 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 tools operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- f) Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- g) Use the power tool, accessories and tool bits etc., in accordance with these instructions and in the manner intended for the particular type of power tool, 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.

## ADDITIONAL SAFETY INFORMATION



### **⚠ READ INSTRUCTIONS**

- Thoroughly read and understand these product instructions before using the Sander/Polisher.
- Keep these product instructions for future reference.



### **⚠ WARNING SHOCK HAZARD!**

- Never operate or store Sander/Polisher in damp or wet conditions.
- Plug into a minimum 15 amp properly grounded circuit. If using an extension cord, it must be AWG 14 or greater, no longer than 25'.

# ADDITIONAL SAFETY INFORMATION



## **⚠ CAUTION HEALTH HAZARDS!**

- The dust and fine particulate matter generated during the sanding or polishing process can contain toxic substances such as lead, silica and solvents. Breathing this dust and fine particulate matter can cause serious respiratory health conditions. Always use NIOSH approved respiratory protection while using this Sander/Polisher.
- This Sander/Polisher will eject particles, dust and buffing materials at high velocity during operation. Wear approved eye and skin protection at all times while operating.
- Sanding and polishing can generate excessive noise. Wear appropriate hearing protection while using.



## **⚠ CAUTION INJURY HAZARDS!**

- The rotating pad of this Sander/Polisher can quickly catch loose clothing, long hair or jewelry causing serious personal injury. Keep all loose clothing, long hair and jewelry away from operating Sander/Polisher.
- This Sander/Polisher can quickly start up when handling while plugged in to electrical supply causing serious personal injury. Always unplug the tool from the electrical supply before changing pads or discs.
- Rotating Sander/Polishing discs can quickly abrade skin. Keep hands and fingers away from rotating pad and always wear protective work gloves while operating.
- This Sander/Polisher can quickly and violently kick back or twist while operating causing severe hand and or wrist injury. Do not apply excessive force tool while in use. Use only on broad, open spaces using care to avoid edges and corners. If smaller objects are being polished, be sure they are securely mounted or anchored before beginning.
- Incorrectly rated pads and discs can disintegrate at high RPM causing serious personal injury. Always use replacement 7" pads and discs rated for 3,000 RPM operation or greater.
- Damaged pads or disks can disintegrate at high speed causing personal injury or property damage. If excessive vibration is felt, discontinue use immediately and disconnect tool from electrical supply. Inspect backing pad, disk and tool for damage. Do not resume use until resolution is found.
- Always make sure the workpiece being sanded/buffed is securely clamped or anchored to allow two handed operation of the tool.



# SET-UP

- Note that The Eastwood Variable Speed 7"-9" Sander/Polisher is supplied with a choice of 2 handle mounting options:
  - **1st Option; Side Handle:** Thread the Side Handle into one of the threaded holes at the side of the Sander/Polisher Head (**FIG 1**). Hand Tighten securely. **NOTE:** Attach to the left side for right-handed users and to the right side for left-handed users.
  - **2nd Option; "D" Handle:** Place mounting holes over the threaded holes at the side of the Sander/Polisher Head and fasten with the supplied M6 Socket Head Cap Screws (**FIGS 2 & 3**). **NOTE:** The Handle is designed in an offset configuration. Attach the offset to the left side for right-handed users and to the right side for left-handed users.
- With the Sander/Polisher unplugged, thread the Backing Pad onto the 5/8-11 threaded Spindle and, while depressing the Spindle Lock Button on the top of the Sander/Polisher Head, hand-tighten the Backing Pad securely (**FIG 4**).
- Apply the appropriate work pad (a foam polishing pad, the Included Wool Bonnet etc.) for the job.
- Plug into a minimum 15-amp, properly grounded circuit. If using an extension cord, it must be AWG 14 or greater, no longer than 25'.

**FIG. 1**



**FIG. 2**



**FIG. 3**



**FIG. 4**



# GENERAL USE OF SANDER/POLISHER

- Set the Speed Control on the desired speed (**FIG 5**). (See charts in appropriate sections).
- While holding the Sander/Polisher securely in two hands, depress the Trigger Switch with forefinger (**FIG 6**).

**NOTE:** The built-in Soft-Start feature will cause a slight delay in motor starting and gradually increase in speed. This feature is designed to minimize splattering and flinging of polishing compound.

- For extended use, the Trigger Switch can be locked in the “ON” position. To lock the Trigger Switch in the “ON” position, depress the Trigger Switch fully then push in the Lock Button located above the Trigger Switch on the left side of the Handle (**FIG 6**). To release lock, depress the Trigger Switch.



## THUMBWHEEL SPEED NUMBER / RPM EQUIVALENCY

### **▲ NOTICE**

The Thumbwheel Speed Control is infinitely variable and actual RPM will vary widely based on the actual position of the Thumbwheel and numerous factors such as actual current input to tool, rotating mass weight of pad and disk, ambient operating temperature and degree of tool wear. As a result, the following figures are only approximate:

- 1 = 1000 RPM
- 2 = 1500 RPM
- 3 = 2100 RPM
- 4 = 2400 RPM
- 5 = 2700 RPM
- 6 = 3000 RPM



# SANDING/POLISHING

- The ability to successfully buff out a paint finish requires a learning curve to properly master that once learned, is a highly satisfying and valuable skill to have. It is best to practice first on old body panels acquired from a salvage yard before attempting to buff out a finish you care about. Possibly a neighbor or friend will have a vehicle with paint in poor condition that they will allow you to practice on.
- Wash vehicle thoroughly with a good quality car wash solution and a firm sponge. Be sure to remove any tar, bug or tree residue.
- Gently, dry the surface with a soft, lint free microfiber towel.
- Cleaning all painted surfaces to be buffed with a clay bar is recommended. Follow all package instructions carefully.
- Mask all windows, wheels and any black painted areas or plastic trim pieces using plastic sheeting and masking tape.  
**NOTE:** Flat or matte painted surfaces, vinyl graphics and plastic trim can be white-stained from the compound & polish.
- Carefully and fully read all labels of Compound and Polishes before beginning any work or irreversible finish damage can result.
- The use of Foam polishing pads is strongly recommended as they resist paint-burning heat buildup. The use of Wool pads is not recommended for beginners as they can quickly generate a high level of heat and burn through paint.
- Always maintain lower machine speed levels to avoid generating excessive heat and paint damage.
- Determine the paint condition or level of damage to be restored.  
**NOTE:** always start with the mildest pad and polish combination that will do the job and work toward the next mildest combination to achieve the best results with minimum work. The chart below will help determine the proper product combination for specific paint conditions.

Paint Condition	Product Recommendations & Machine Speed
<ul style="list-style-type: none"> <li>- Deeper scratches in clear coat.</li> <li>- Mild abrasions (not through clear coat or to primer).</li> <li>- Acid rain or chemical etching.</li> <li>- Bird dropping stains.</li> <li>- Paint overspray.</li> <li>- Weathering dullness.</li> <li>- Light orange peel.</li> <li>- Follow-up to wet-sanding.</li> </ul>	<p style="text-align: center;">Foam Cutting Pads and heavier Cutting Compound 1400 to 1500 RPM (2 on Eastwood Sander/Polisher Dial)</p>
<ul style="list-style-type: none"> <li>- Follow-up for Cutting Pad &amp; compound swirls.</li> <li>- Minor clear coat scratches &amp; abrasions.</li> <li>- Water spots.</li> <li>- Surface haze.</li> <li>- Minor staining.</li> </ul>	<p style="text-align: center;">Foam Polishing Pads and lighter Polishing Compound 1200 to 1400 RPM (Between 1 to 2 on Eastwood Sander/Polisher Dial)</p>
<ul style="list-style-type: none"> <li>- Swirl Removing.</li> <li>- Wax/Polish Application.</li> </ul>	<p style="text-align: center;">Mild Foam Finessing Pads and Abrasive-free Wax or Polish 1000 to 1100 RPM (Between 1 to 2 on Eastwood Sander/Polisher Dial)</p>

- Never push down on or apply pressure to the Sander/Polisher while running. Let the spinning pad do the work.
- When Polishing, work only within the 12:00 to 3:00 quadrant of the pad (when viewed from above) and keep the pad tilted at a 10°-15° angle in relation to the work surface. DO NOT allow the pad to be in full contact with the work surface as this will overload the motor and can cause burn through of painted surfaces.
- Apply a several inch-long bead of polishing compound to work surface or to face of pad. Note: Be sure to follow the buffing compound manufacturer's bottle instructions carefully! With the switch off, spread the compound around the work surface with the pad.
- Try (if possible) to work in a 2' x 1' area and move in long, overlapping rows. Never stop the machine in one spot or pad overheating could occur.
- Generally, when the compound dries and disappears, stop the machine, wipe the residue off with a clean microfiber cloth and check buffing progress. Be sure to follow the buffing compound manufacturer's bottle instructions.

# SANDING/CLEANING

By obtaining 7" hook and loop sanding and cleaning disks (Not Included), the Eastwood Sander/Polisher may be used for many sanding and surface cleaning jobs.

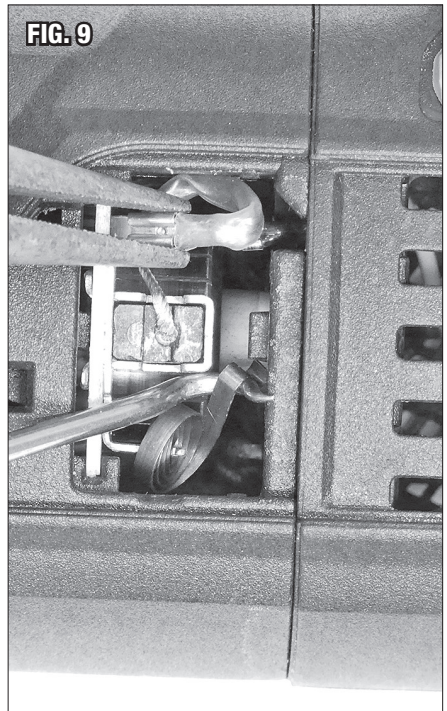
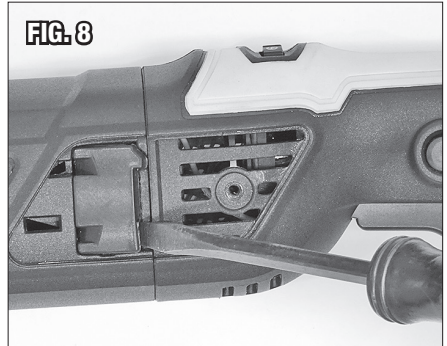
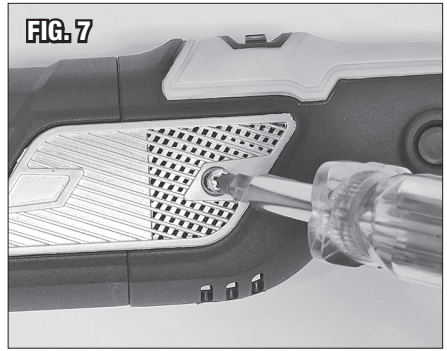
- Set the Speed Control on the desired speed. The chart below will help determine the best setting for general conditions. Individual requirements may vary.

<b>Work Surface</b>	<b>Abrasive/Cleaning Disc Recommendations &amp; Machine Speed</b>
- Removing moderate rust. - Removing old paint finish. - Rough shaping body filler.	P40 to P240 Grit 2400 to 2800 RPM (4-6 on Eastwood Sander/Polisher Dial)
- Removing light surface rust. - Removing old paint finish. - Finish shaping body filler.	P320 to P600 Grit 1900 to 2400 RPM (2-4 on Eastwood Sander/Polisher Dial)

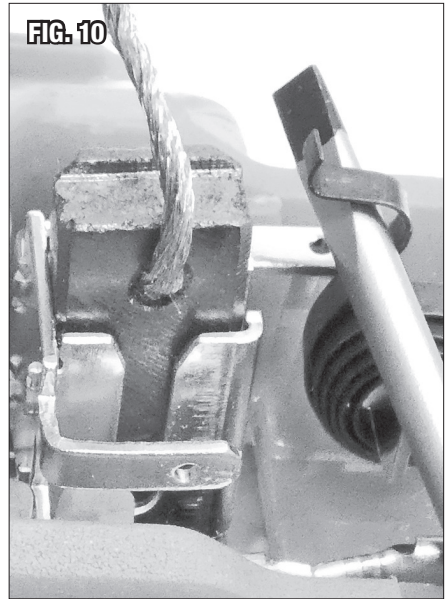
# BRUSH REPLACEMENT

If motor performance is noticeably degraded or fails to start as trigger is depressed after extensive use, the Motor Brushes are likely worn and need to be replaced. To do so:

- First unplug machine.
- Remove the Motor Vent Panels (one each side) by removing screws on the side with a Phillips screwdriver (**FIG 7**).
- Remove the Motor Brush Covers by prying out with a small straight blade screwdriver (**FIG 8**).
- Remove the spade connector at the end of the braided brush lead from the terminal by gripping with needle nose pliers and pulling outward (**FIG 9**).



- Placing a small straight-blade screwdriver under the wound-spring tab, lift upward and out to release spring tension from brush and pull straight out of shell (**FIG 10**).
- Inspect Brush.  
**NOTE:** (Brushes are considered worn if less than 1/8" of carbon is remaining)
- Replace with new brush.  
**NOTE:** The carbon contact goes in first and is keyed to the rectangular socket. Release spring tension and carefully allow spring tab to exert pressure on the top of the brush.
- Repeat above procedure for opposite brush.
- Replace the Motor Brush Covers, replace the Motor Vent Panels and tighten screws.





# TROUBLESHOOTING

PROBLEM	CAUSE	CORRECTION
<b>Does Not Run When Switch Is Depressed</b>	No electrical power to Sander/Polisher	Check 120 VAC input plug connection.
	Motor Brushes worn	Replace Motor Brushes as described in this manual.
<b>Motor Runs Too Slow/ Develops Low Power</b>	Undersized or too long of an extension cord	Use only 14 gauge or larger cord. Limit length to 25'.
	Motor Brushes worn	Replace Motor Brushes as described in this manual.
<b>Excessive Noise and/or Vibration</b>	Backing Disk loose on threaded Arbor	Tighten Backing Disk onto Arbor.
	Backing Disk cracked or damaged	Replace Backing Disk as described in this manual.
<b>Motor Overheats</b>	Excessive pressure being applied to Sander/Polisher Pad	Allow Pad to cut by rotation alone. Do Not Force.
	Full face of Sander/Polisher Pad being applied to surface	Work only on 12:00 to 3:00 quadrant of pad at a 10°-15° angle.
	Dirt and debris buildup in motor cooling air slots	Use a brush or compressed air to remove debris.

# ADDITIONAL ITEMS

- #51561Z Norton Complete Liquid Ice Finishing System
- #31074 Cushioned 7" Backing Pad
- #12019 Norton Liquid Ice Polishing Compound
- #16135 Griot's Complete Polish
- #32071 Chemical Guys Workhorse Towels
- #16143 True Power 8PC Microfiber Towel Set

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**If you have any questions about the use of this product, please contact**

The Eastwood Technical Assistance Service Department: 800.343.9353 >> email: [tech@eastwood.com](mailto:tech@eastwood.com)

PDF version of this manual is available at [eastwood.com](http://eastwood.com)

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