

*Eastwood*<sup>®</sup>

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Part #31455

# 1/2" X 18" PROFESSIONAL MINI BELT SANDER INSTRUCTIONS



The **EASTWOOD MINI BELT SANDER** is a professional quality tool ruggedly designed for many years of reliable service. It features an infinitely adjustable sanding arm through a 120° range of belt position for maximum versatility and a generous 8-1/2" long Abrasive Arm allows reach into confined spaces. A high-torque, ball bearing supported, 4 vane motor provides smooth operation and long life. Speed is easily controlled with a variable speed control lever while motor activation is by paddle control.

## CONTENTS

- (1) Mini Belt Sander
- (1) 4 mm Hex-Key Wrench
- (1) 1.5 mm Hex-Key Wrench
- (1) 80 Grit, 1/2" x 18" Abrasive Belt
- (1) 100 Grit, 1/2" x 18" Abrasive Belt
- (1) 1/4" NPT Air Inlet Coupling

## SPECIFICATIONS

- **RPM:** 16,000 free speed
- **Air Motor:** Variable speed, 4 vane, ball bearing
- **Air Consumption:** 7.1 CFM [201 L/min]
- **Inlet thread size:** 1/4" FNPT
- **Required Belt Size:** 1/2" x 18", minimum 16,000 RPM

## SAFETY INFORMATION

The following explanations are displayed in this manual, on the labeling, and on all other information provided with this product:

### **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.

# SAFETY INFORMATION



## **⚠ READ INSTRUCTIONS**

- Thoroughly read and understand these product instructions before using this tool. Failure to follow all warnings can result in tool damage or serious physical injury.
- Keep these product instructions for future reference.



## **⚠ WARNING HEALTH AND INJURY HAZARDS!**

- This tool has high-speed, highly abrasive surfaces which can quickly cause severe injury. Keep fingers and hands away from moving parts when operating. Wear thick, well-fitting work gloves and keep loose clothing, sleeves, cords, jewelry and hair away from moving parts.
- Hazardous dust is generated during the grinding/sanding process. Wear appropriate NIOSH approved respiratory protection.
- Metal particles and dust can be ejected during the grinding/sanding process. Always wear ANSI approved eye and ear protection when operating this tool.
- Do not force tool or exert side forces on belt drive while grinding or sanding as the tool body can suddenly kick back or twist causing severe hand or wrist injury. Belts can also be torn with excessive side force causing them to disintegrate and eject sharp pieces at high velocity.
- This tool will vibrate during use! Repeated exposure to vibration may cause physical injury.
- Always disconnect tool from air supply when changing abrasive belts to prevent accidental tool starting and potential serious injury.
- Always make sure the workpiece being sanded/ground is securely clamped or anchored to avoid sudden movements which could result in injury.
- Frequently inspect belt condition. If tears or holes develop, discontinue tool use immediately and replace damaged belt. **ONLY USE** replacement belts rated for 16,000 RPM or greater use otherwise serious injury or death can result in the event of belt failure.



## **⚠ CAUTION CUT HAZARD!**

- Handling sharp metal can cause cuts. Wear thick work gloves and long sleeves when using this tool.

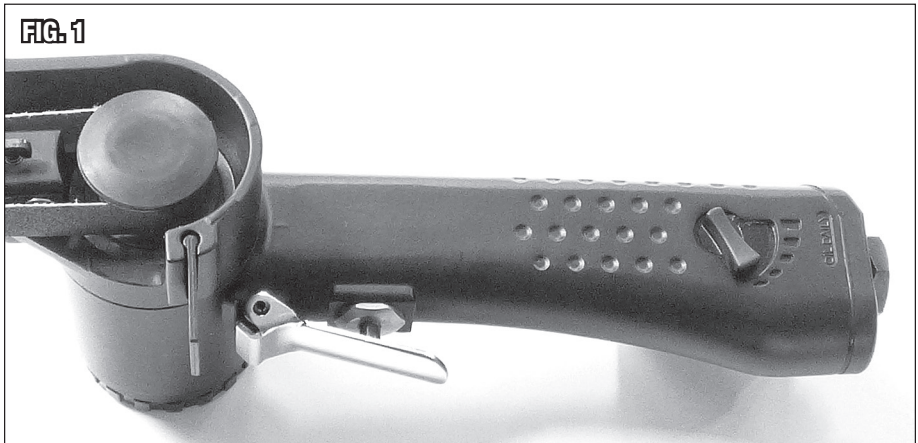


## **⚠ CAUTION EXPLOSION HAZARD!**

- Do not exceed 90 psi (6.3 bar) of tool inlet pressure. Permanent tool damage and/or explosion could occur and cause personal injury.

# SET-UP & CONNECTION

1. Be sure that the air supply to the tool is clean and dry. Moisture in the supply line will quickly damage the motor and valves.
2. A minimum 3/8" I.D. air line should be used for optimal performance.
3. Thread the included 1/4" Male Quick-Disconnect Fitting into the tool using TFE thread sealing tape (not included).



# OPERATION

- Rotate the lever located at the left rear of the tool handle to regulate motor speed (**FIG 1**). Note that the “down” position will result in slower speed while “up” will increase speed.
- Depress Throttle Paddle inward with fingers to operate tool..
- Keep the broad work surface of the Abrasive Belt parallel to the work surface whenever possible to minimize uneven wear and maximize usable life.
- Always maintain a firm grip while operating tool, do not force but allow the rotational speed of the Abrasive Belt to do the work.
- Be sure that the workpiece is clamped down or held securely to minimize the danger of injury while operating tool.

# ABRASIVE BELT REPLACEMENT

The Abrasive Belts are quickly and easily changed. No tools are required.

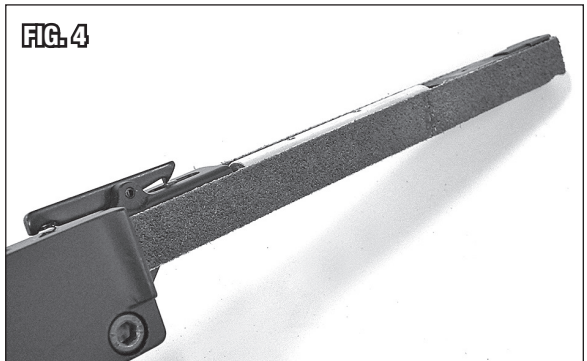
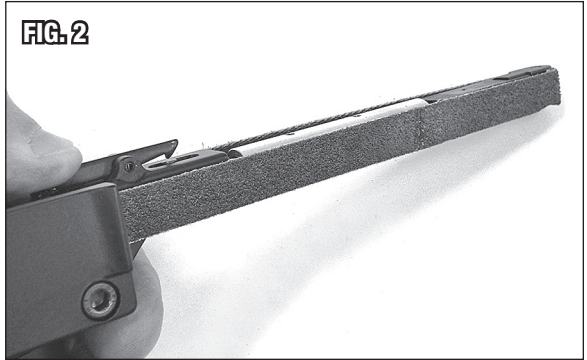
The following steps describe how to do this:

1. Disconnect air supply from the tool to prevent accidental starting and potential injury while removing or installing an Abrasive Belt.
2. The end of the Abrasive Belt Arm is spring loaded to keep the proper tension on the Abrasive Belts. While holding the tool firmly, push **inward** on the end of the Abrasive Belt Arm while depressing the Thumb-Lever Latch (**FIG 2**).

**NOTE:** The Guide Pin will move inward until it locates under the Latch portion of the Thumb-Lever Latch holding it in the retracted position while the Abrasive Belt is changed (**FIG 3**).

3. Pull the worn Abrasive Belt free of the Drive Drum and discard.
  4. Slide the replacement Abrasive Belt over the Drive Drum and Idle Roller at the end of the Abrasive Belt Arm (**FIG 4**).
- NOTE:** Be sure the Abrasive Belt is slid fully over the Guide Bar located on the upper surface of the Abrasive Belt Arm.

5. Depress the Thumb-Lever Latch to release the Guide Pin restoring full spring pressure.



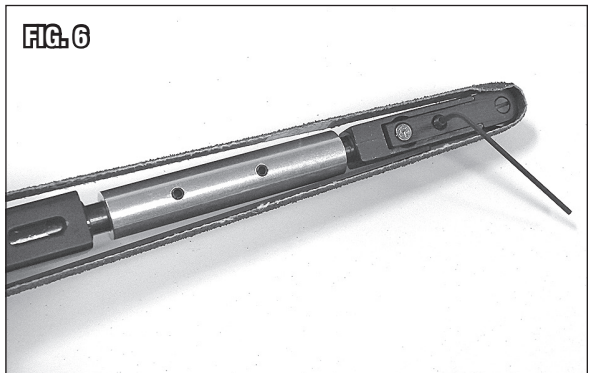
# ADJUSTING SANDING ARM ANGLE

1. Disconnect air supply from the tool to prevent accidental starting and potential injury while adjusting the Abrasive Belt Arm Angle.
2. Using the included 4mm Hex Key, loosen the Angle Adjusting Screw located on the upper side of the Abrasive Arm Assembly (**FIG 5**), rotate Arm to desired position then tighten screw securely.



# ADJUSTING ABRASIVE BELT TRACKING

1. Disconnect air supply from the tool to prevent accidental starting and potential injury while adjusting the Abrasive Belt Tracking. The Tracking Adjustment Screw is located at the outer right side of the Abrasive Arm Assembly (**FIG 6**).



2. Using the included 1.5mm Hex Key, turning the screw clockwise (as viewed from the right side) will cause the belt to track left while turning the screw counter-clockwise will cause the belt to track right.

# MAINTENANCE

- Add several drops of air tool oil before each use by dropping directly into the air inlet.
- If tool is to be unused for an extended period, add 10 drops of air tool oil directly to the air inlet, rotate the tool motor by hand several times to distribute the oil throughout the motor and gearbox then store the tool, handle up.
- Periodically, with the air supply disconnected, check belt condition and Angle Adjusting Screw tightness.

# TROUBLESHOOTING

PROBLEM	CAUSE	CORRECTION
<b>Tool Doesn't Respond to Trigger Depression</b>	Insufficient Air Supply	Verify sufficient air supply. Should be 7.1 cfm or more.
	Moisture in Air Line	Check for moisture in air line and tool inlet.
<b>Tool Performance is Slow or Sluggish</b>	Insufficient Air Supply	Verify sufficient air supply. Should be 7.1 cfm or more.
	Moisture in Air Line	Check for moisture in air line and tool inlet.
<b>Tool Vibrates Excessively During Use</b>	Split or Torn Belt	<b>STOP USE IMMEDIATELY!</b> Replace Belt.
	Loose Angle Adjustment Screw	<b>STOP USE IMMEDIATELY!</b> Tighten Angle Adjustment Screw
<b>Tool Emits Excessive Noise During Use</b>	Tool Lacks Lubrication	<b>STOP USE IMMEDIATELY!</b> Add air tool oil directly to air inlet.

# ADDITIONAL ITEMS

- #31458 5 Pack of 40 Grit, 1/2" x 18" Abrasive Belts
- #31456 5 Pack of 80 Grit, 1/2" x 18" Abrasive Belts
- #31457 5 Pack of 120 Grit, 1/2" x 18" Abrasive Belts

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

The Eastwood Technical Assistance Service Department: 800.544.5118 >> email: [techelp@eastwood.com](mailto:techelp@eastwood.com)

PDF version of this manual is available online >> [eastwood.com/31455manual](http://eastwood.com/31455manual)

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