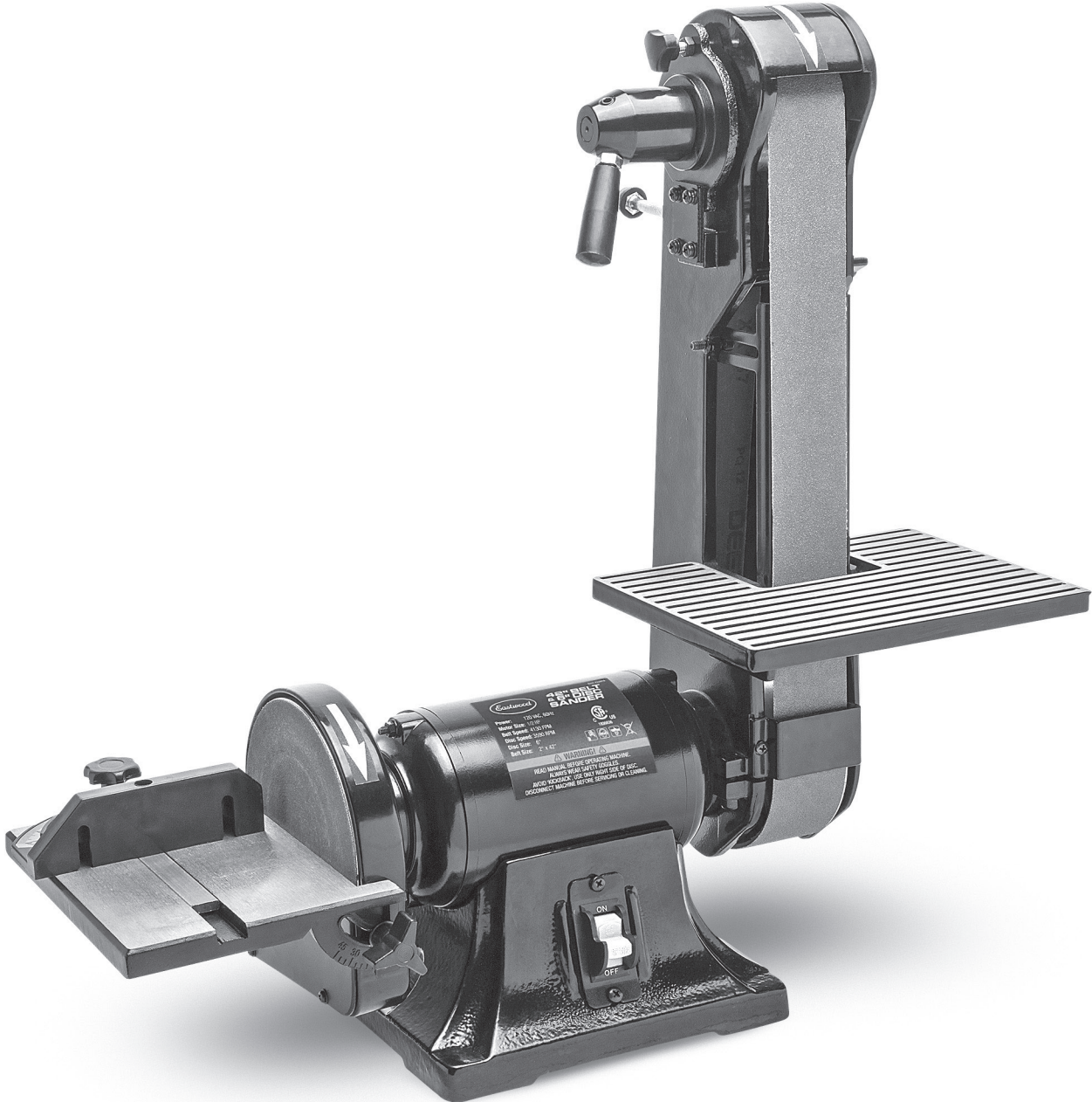




DO THE JOB RIGHT.®

Item #22979

42" BELT & 6" DISC SANDER INSTRUCTIONS



The **EASTWOOD 42" BELT & 6" DISC SANDER** is designed for rugged reliability and ease of use. The positionable belt drive assembly provides a full 90° of adjustment from horizontal to vertical and features a secure stop fence/tool rest for safety and convenience. The 6" disc sander features an angle-adjustable work surface and sliding miter gauge/fence to allow grinding to precise angles with one convenient bench mount tool.

CONTENTS

COMPONENTS

- (1) Belt/Disc Sander Motor Assembly – **A**
- (1) 2" x 42", 80 Grit Abrasive Belt (installed) - **B**
- (1) Disc Plate - **C**
- (1) 6", 80 Grit PSA Abrasive Disc - **D**
- (1) Disc Lower Dust Chute - **E**
- (1) Disc Work Support Table - **F**
- (1) Disk Table Miter Gauge Assembly - **G**
- (1) Belt Work Support Table - **H**
- (1) Belt Alternate Tool Rest - **J**


HARDWARE

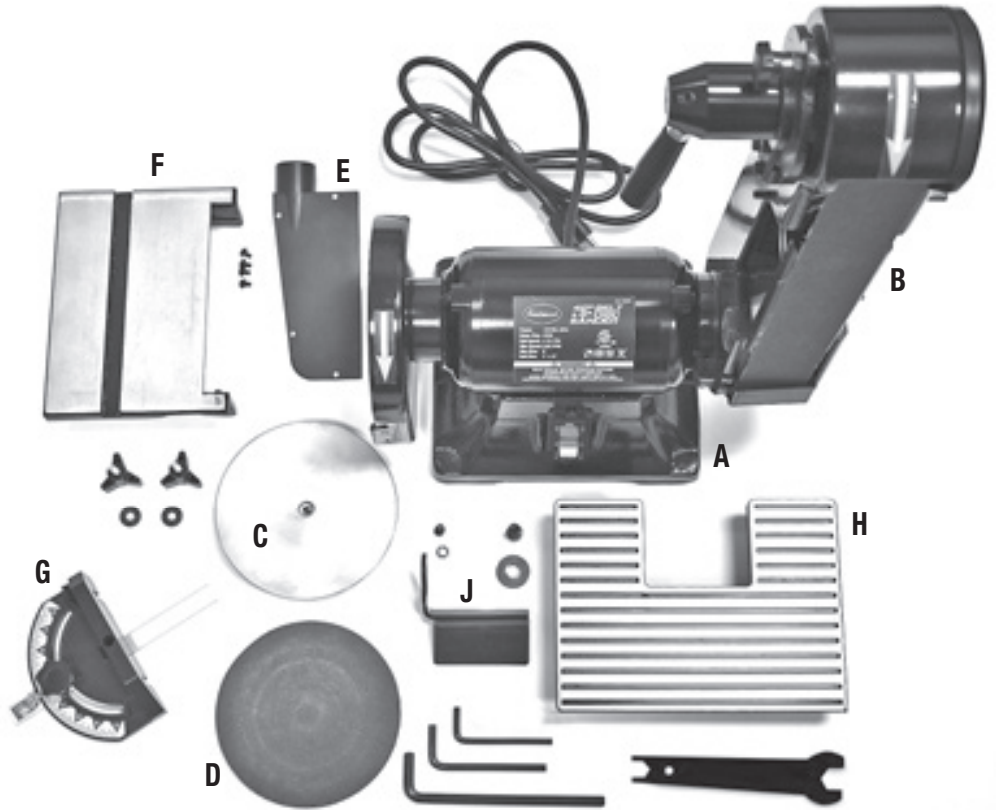
- (1) M6 x 15mm REVERSE THREAD Socket Head Cap Screw (for retaining the Disc Plate)
- (1) M6 External Tooth Lockwasher
- (4) M4 x 7mm Phillips Head Screws with Captive Washers (for retaining Disc Lower Dust Chute)
- (2) M6 x 1.00 Threaded Knobs (for Disc Work Support Table)
- (2) M6 Washers.
- (1) M10 x 1.5 Socket Head Cap Screw (for Belt Work Support Table and Alternate Tool Rest)
- (1) M10 Washer

TOOLS

- (1) 10mm/13mm Combination Flat Wrench
- (1) 5mm Hex Key
- (1) 6mm Hex Key
- (1) 8mm Hex Key

SPECIFICATIONS

- Input Voltage:** 120 VAC, 60 Hz
- Input Amperage:** 5 Amps
- Plug Type:** NEMA 5-15P
- Cord Length:** 6' [1.8m]
- Certification:** 
- Free Speed:** 3590 RPM
- Belt Speed:** 4130 FPM
- Belt Size:** 2" x 42"
- Disc Size:** 6" Adhesive backed



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.

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 the warnings listed below refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

1) 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.

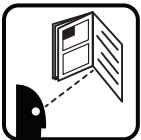
2) PERSONAL SAFETY

- 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.

3) 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.
- Keep these product instructions for future reference, adjustments and maintenance.



⚠ WARNING HEALTH HAZARD!

- Dust and fine particles are generated while sanding or grinding which can contain hazardous or toxic substances. Breathing this dust can cause serious respiratory health conditions. Always use NIOSH approved respiratory protection while using this Sander.
- This Sander will eject particles, dust and sparks at high velocity during operation. Wear approved eye and skin protection at all times while operating.
- Sanding or grinding with this Sander can generate excessive noise. Wear appropriate hearing protection while using.



⚠ WARNING INJURY HAZARD!

- The rotating Disc and moving Belt of this Sander 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.
- This Sander 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 Sandpaper, making adjustments to the tool or performing maintenance.
- Sharp metal edges can cut. Always wear protective work gloves while handling.
- Moving abrasive surface can quickly abrade skin. Keep hands and fingers away from the rotating Disc and moving Belt.
- This Sander can quickly and violently propel workpiece objects while operating causing injury and or property damage. Do not apply excessive force to Sander while in use. Always make sure the workpiece or material being cut is held securely and work is done only on the RIGHT (downward) side of the Disc.
- If excessive vibration is felt, discontinue use immediately and disconnect tool from electrical supply. Inspect abrasive Platen or components for damage. Do not resume use until resolution is found.



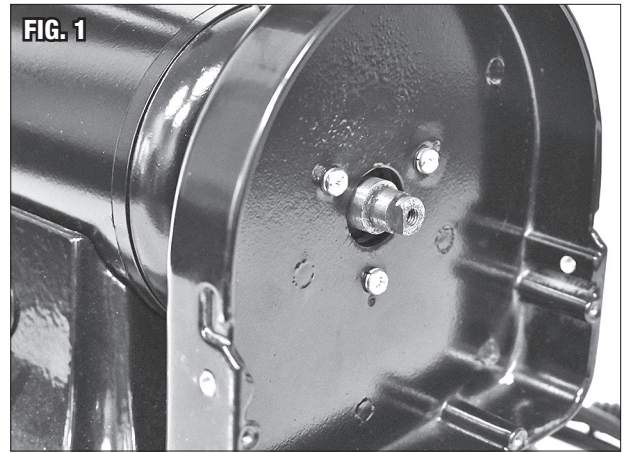
⚠ CAUTION FIRE HAZARD!

- This Sander will eject a trail of sparks at high speed which can ignite flammable materials or injure others nearby. Do not operate in the vicinity of flammable materials and keep all persons and pets away from the work area.



ASSEMBLY

- Install the Disc Plate [C] on the Motor Shaft with the “D”- flats (FIGS 1 & 2) in alignment and secure with the M6 x 15mm REVERSE THREAD Socket Head Cap Screw and Internal Tooth Lockwasher using the included 5mm Hex Key (FIG 3).
- Peel off the backing to expose the adhesive, center and press the PSA Abrasive Disc [D] in place (FIG 4).

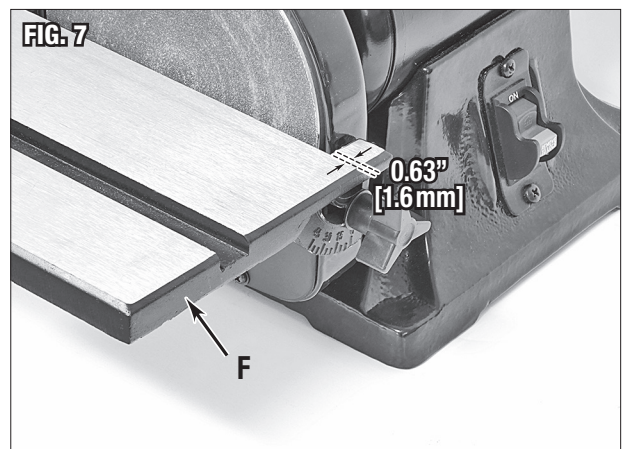
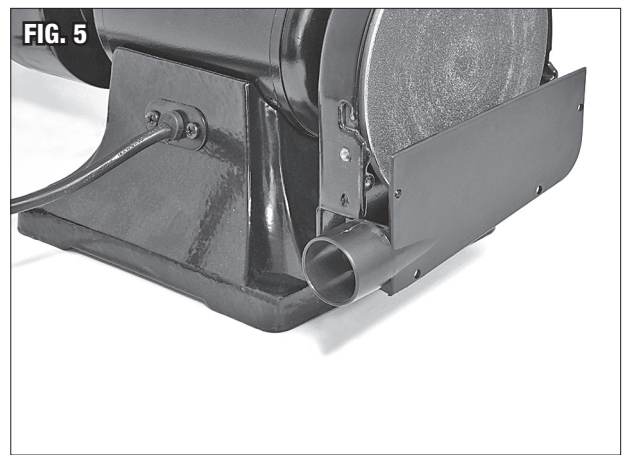


- Place the Disc Lower Dust Chute [E] over the open bottom section of the Disc Guard (FIG 5).
NOTE: Slide the rear baffle section into the slots of the Disc Guard casting.
- Secure with the four M4 x 7mm Phillips Head Screws with Captive Washers (FIG 6).
- Secure the adjustable angle Disc Work Support Table [F] to the Disc Guard with the two M6 Threaded Knobs and M6 Washers, one on each side allowing at least 0.063" [1.6mm] space between the edge of the Table and the face of the Disc (FIG 7).

▲ NOTICE

The Disc Work Support Table [F] MUST NOT contact the Sanding Disc. Check for contact with Disc and adjust if necessary.

- Slide the steel bar of the Disk Table Miter Gauge Assembly [G] into the groove of the Disc Work Support Table.



- Mount the diecast Belt Work Support Table **[H]** to the Belt Sander Arm Assembly with the included 10mm Socket Head Cap Screw and Washer (**FIG 8**). Keep the edge of the Table/Stop approx. 0.063" [1.6mm] from the belt and tighten screw securely with the an 8mm Hex Key (**FIG 9**).

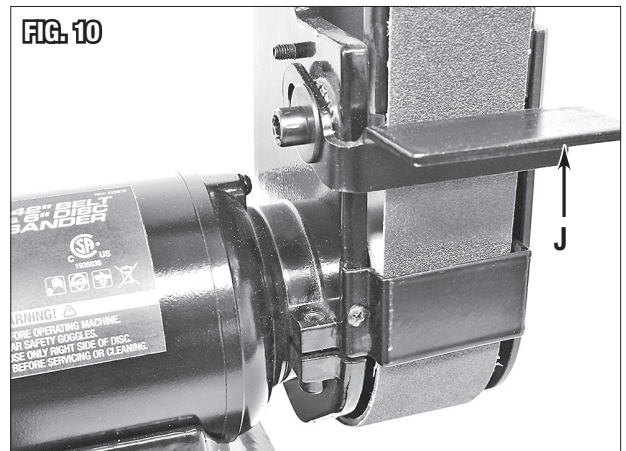
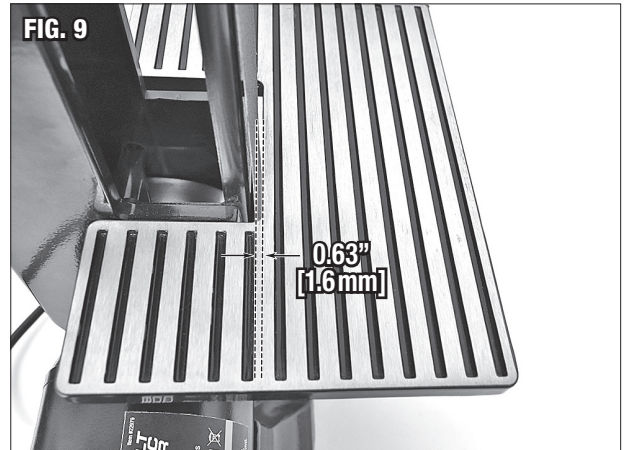
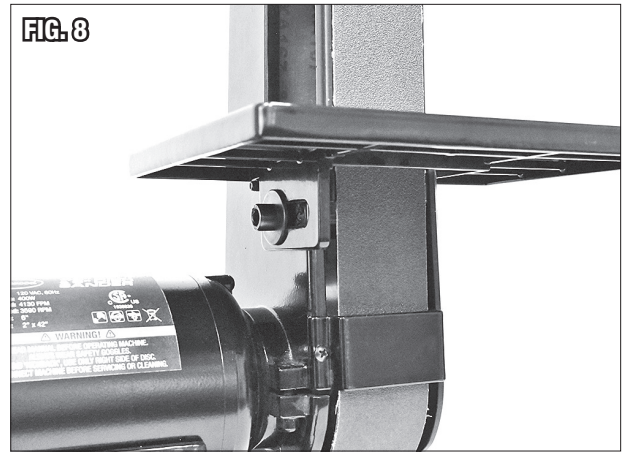
⚠ NOTICE

The Belt Work Support Table **[H]** **MUST NOT** contact the Sanding Belt. Check for contact with Belt and adjust if necessary.

- As an alternative, mount the steel Alternate Tool Rest **[J]** to the Belt Sander Arm Assembly with the included 10mm Socket Head Cap Screw and Washer (**FIG 10**). Keep the edge of the Tool Rest 0.063" [1.6mm] from the belt and tighten screw securely with an 8mm Hex Key.

⚠ NOTICE

The Alternate Tool Rest **[J]** **MUST NOT** contact the Sanding Belt. Check for contact with Belt and adjust if necessary.



SET-UP

- Securely bolt the housing flanges to a secure work surface to prevent tool movement while in use.
- Use suitable lag bolts or through bolts and nuts (not included), capable of withstanding the loads that will be applied to the Sander while in use.
- The Disc Lower Dust Chute has a 1-1/2" [36mm] diameter discharge outlet suitable for connection to a vacuum hose.

⚠ CAUTION

If not connecting to a vacuum, be aware of the direction of the discharge outlet as it will direct sanding debris rearward in a concentrated pattern at high velocity.

⚠ CAUTION

If using a vacuum, it must be capable of receiving metal chips and sparks. Clean out thoroughly if wood dust is in the chute.

ADJUSTMENTS

DISC WORK SUPPORT TABLE ANGLE ADJUSTMENT;

- Slightly loosen the Two Threaded Knobs attaching the Disc Work Support Table, choose the preferred working position for the Table, then tighten the Threaded Knobs securely locking it in position (FIG. 11).

SANDING BELT ARM ANGLE ADJUSTMENT;

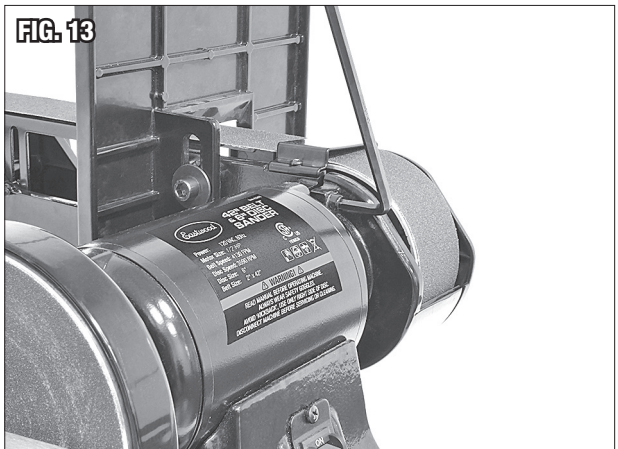
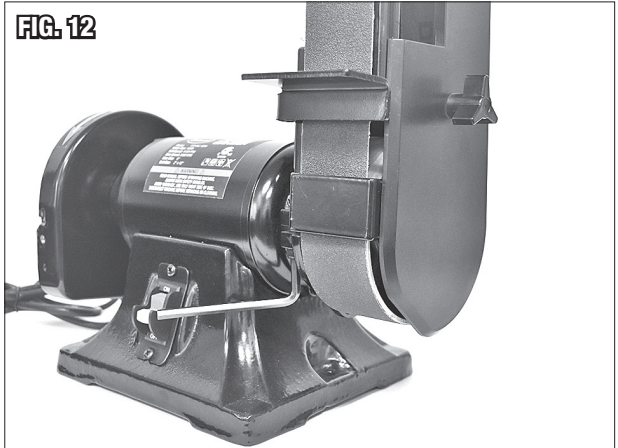
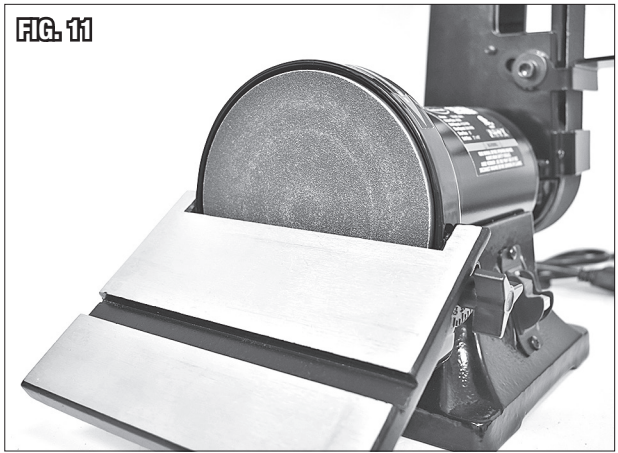
The Belt Sander Arm position is adjustable from the as supplied vertical position a full 90° to a horizontal arrangement. To do so:

- Loosen the M6 Socket Head Cap Screw on the Belt Sander Pivot Clamp with included 6mm wrench, choose the preferred working position for the Belt Sander, then tighten screw securely locking it in position (FIGS 12 & 13).

NOTE: In addition to the Pivot Clamp, the Belt Sander Arm is supported in the full horizontal position by a Support Strut at the rear of the Belt Housing (FIG. 14).

⚠ CAUTION

Be certain the Belt Sander assembly clamping is securely tightened. Severe personal injury could occur if Belt Sander Assembly position slips during use.



BELT WORK SUPPORT TABLE ADJUSTMENT;

- Loosen the M10 Socket Head Cap Screw mounting the Belt Work Support Table with an 8mm Hex Key, choose the preferred working position for the Table, then tighten screw securely locking it in position.

BELT ALTERNATE TOOL REST ADJUSTMENT;

- Loosen the M10 Socket Head Cap Screw mounting the Belt Alternate Tool Rest with an 8mm Hex Key, choose the preferred working position for the Tool Rest, then tighten screw securely locking it in position.

BELT TRACKING ADJUSTMENT;

The Belt Tracking is set at the factory when the unit is assembled and should not require adjustment. If after extended use, the belt begins to track to the left or the right of the Upper Roller, it may be adjusted to center it. To do so:

- Loosen and back off the M10 Locknut on the Tracking Adjuster at the upper left side of the Sanding Belt Housing (FIG. 15).
- Rotate the Threaded Knob in (Clockwise as viewed from the left side) 1/4 turn at a time to skew the Belt to the LEFT.
- Rotate the Threaded Knob out (Counter-Clockwise as viewed from the left side) 1/4 turn at a time to skew the Belt to the RIGHT.

CAUTION INJURY HAZARD!
Moving abrasive surface can quickly abrade skin. Keep hands and fingers away from moving Abrasive Belt.

- Switch on the motor briefly to observe Belt Position.
- Make 1/4 turn adjustments and recheck as required to center the Belt on the Upper Roller.
- Tighten Locknut (Use caution not to rotate the Threaded Knob) and recheck tracking.

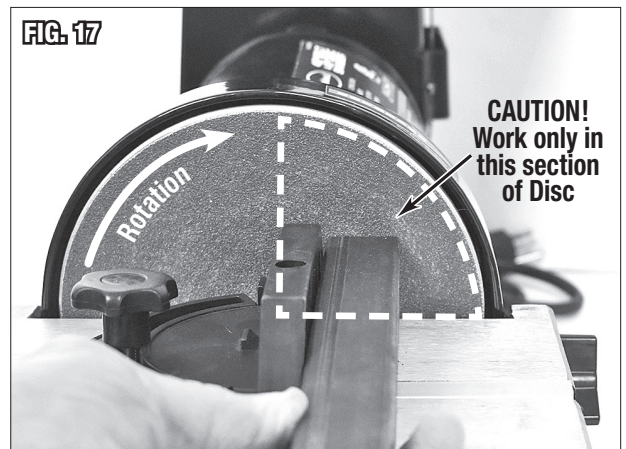
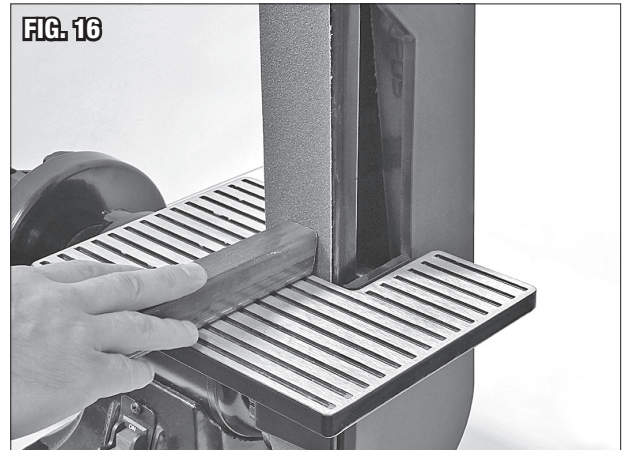
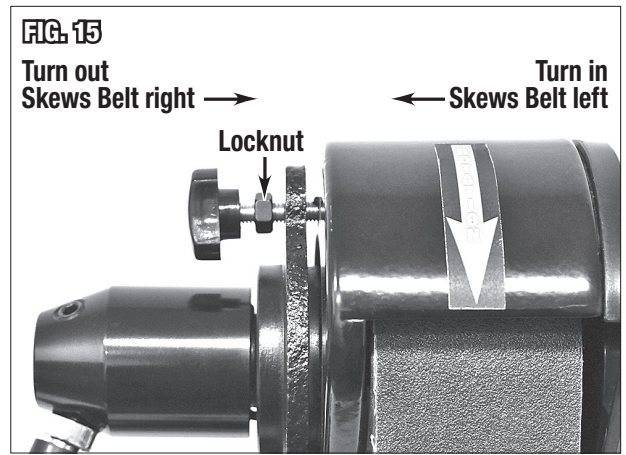
OPERATION

- Plug power cord into a 120 VAC outlet and move power switch up to the "ON" position.
- When using the Belt Sanding feature, allow the workpiece to gently rest against the Belt Work Support Table or Alternate Tool Rest and move it from side to side as the belt is moving (FIG 16).

CAUTION
DO NOT keep the workpiece in one place while sanding and DO NOT push the workpiece into the belt with excessive force as this will overheat the belt causing premature wear, failure and possibly personal injury.

- When using the Disc Sanding feature, allow the workpiece to gently rest on the Adjustable Disc Table/Miter Plate and gently apply it to the disc as it is rotating, DO NOT force it into the disc (FIG 17).

CAUTION INJURY HAZARD!
USE ONLY THE RIGHT or "ROTATING DOWN" SIDE of the Sanding Disc Face. Using the Left or "rotating Up" side may violently pull the workpiece from the hands.



ABRASIVE BELT REPLACEMENT

⚠ WARNING INJURY HAZARD!

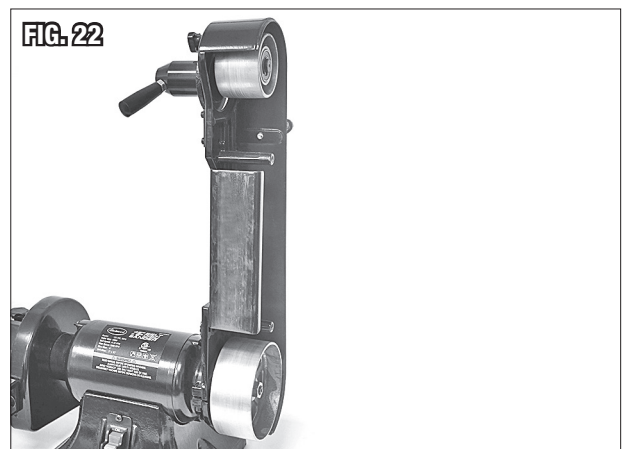
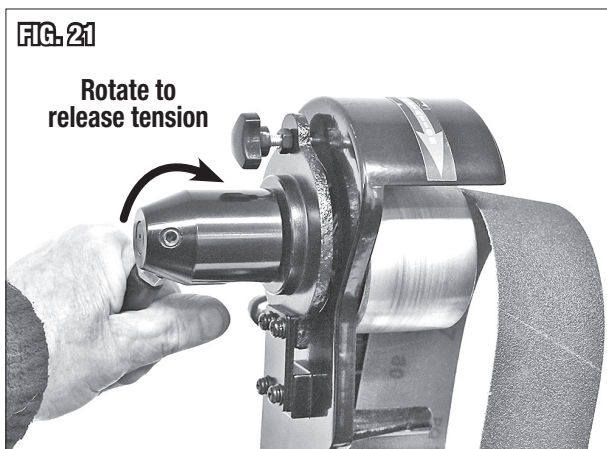
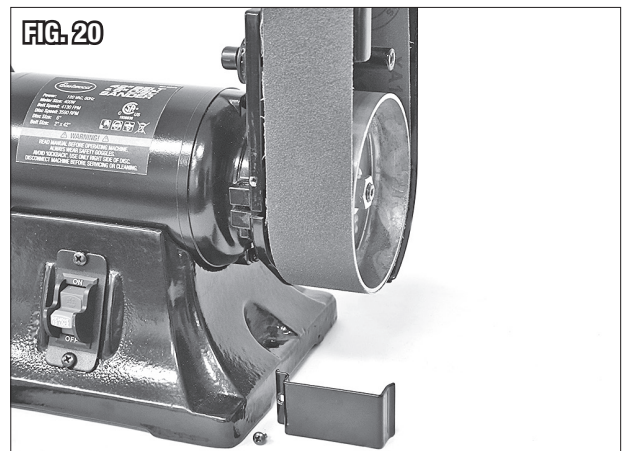
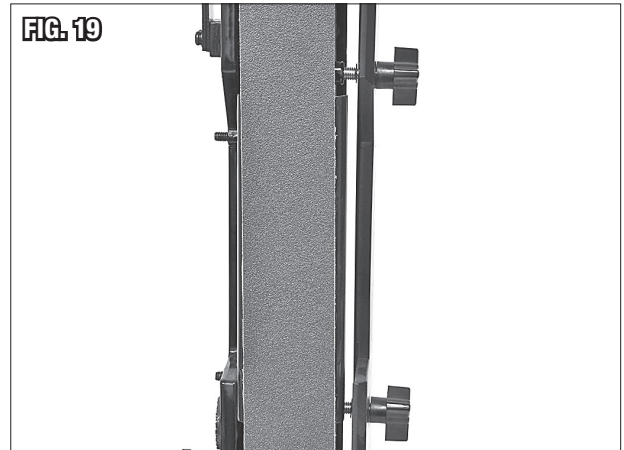
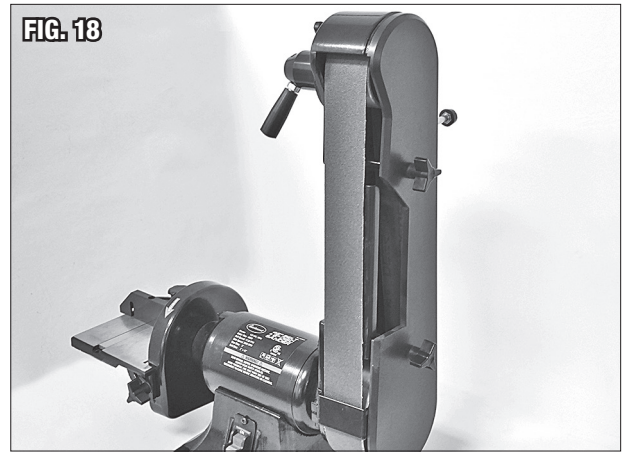
Unplug tool before beginning belt replacement or severe personal injury could result if motor should start during this procedure. Always use an Eastwood approved 2" x 42" sanding belt to insure safe operation.

ABRASIVE BELT REMOVAL

1. Remove the Belt Work Support Table or Alternate Tool Rest (**FIG 18**).
2. Unscrew the two knobs on the plastic Belt Cover and remove the cover (**FIG 19**).
3. Remove the Lower Guard by unscrewing it with a Phillips head screwdriver (**FIG 20**).
4. Release tension on the belt by rotating the Belt Tension Release Arm Clockwise as viewed from the Left (**FIG 21**).
NOTE: The Belt Tension is spring loaded and will return to full tension upon release of the Belt Tension Release Arm
5. Remove the belt from the Rollers (**FIG 22**).

ABRASIVE BELT INSTALLATION

1. Install the replacement belt onto the Rollers.
2. Rotate the Belt Tension Release Arm Clockwise as viewed from the Left, reapplying tension to the belt.
3. Reinstall the Lower Guard.
4. Place the Belt cover over the belt and rollers and secure with the two Threaded Knobs.
5. Replace the Work Support Table or Alternate Tool Rest.



ABRASIVE DISC REPLACEMENT

⚠ WARNING INJURY HAZARD!

Unplug tool before beginning disc replacement or severe personal injury could result if motor should start during this procedure. Always use an Eastwood approved 6" PSA sanding disc to insure safe operation.

1. Remove the Adjustable Disc Table/Miter Plate by loosening and removing the two knobs, one on each side.
2. Remove the Dust Chute by unscrewing it with a Phillips head screwdriver.
3. Peel away the worn sanding disc from the backing plate. NOTE: Application of heat from a heat gun and A single edge razor blade or scraper may be helpful in removing adhesive backed Disc. DO NOT damage the face of the aluminum backing Disc.
4. Clean any adhesive residue, grit or dirt from the Backing Disc.
5. Peel backing paper from the new sanding disc, center over the backing disc and press into place. Be sure all surfaces of disc are adhering, and no bubbles or wrinkles are present.

MAINTENANCE

⚠ NOTICE

The following maintenance should be performed before each use

- Check tightness of all hardware.
- Check operation and alignment of the Belt, Disc and Tables.
- Inspect Abrasive Belt and Disc for tears, damage or premature wear.
- Clean excess dirt and debris from motor, Belt and Disc.

TROUBLESHOOTING

PROBLEM	CAUSE	CORRECTION
Does Not Run When Switch is Moved To the "ON" Position	No electrical power to Sander	Check 120 VAC input plug connection
		Check for tripped circuit breaker
Motor Runs Too Slow/ Develops Low Power	Undersized or too long of an extension cord	Use only 14 gauge or larger cord
		Limit length to 25'
Excessive Noise and/or Vibration	Abrasive Belt/Disc is damaged	WARNING: This is an extremely dangerous condition! Stop Use and replace Abrasive and/or Disc!
Motor Overheats	Excessive pressure being applied to Abrasive Belt/Disc	Allow Abrasive Disc or Belt to work by contact alone. DO NOT Force the workpiece into the Disc or Belt.
	Dirt and debris buildup in Disc or Belt housing area	Use a brush or compressed air to remove debris from Disc or Belt housing area.

ADDITIONAL ITEMS

- #15144 40 Grit, 6" PSA Abrasive Discs, 6-PK
- #15145 80 Grit, 6" PSA Abrasive Discs, 6-PK
- #15146 120 Grit, 6" PSA Abrasive Discs, 6-PK
- #15147 180 Grit, 6" PSA Abrasive Discs, 6-PK

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

PDF version of this manual is available at eastwood.com

The Eastwood Company 263 Shoemaker Road, Pottstown, PA 19464, USA 800.343.9353 eastwood.com

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