

Eastwood

DO THE JOB RIGHT.

Part #13576

8", 1/2 HP BENCH GRINDER/BUFFER INSTRUCTIONS



THE EASTWOOD 8", 1/2 HP GRINDER/BUFFER is a powerful, heavy-duty, high-quality shop tool precision engineered to provide excellent performance, rugged reliability and long life. It offers great versatility incorporating both Grinding and Buffering capability all in one unit.

WARNINGS

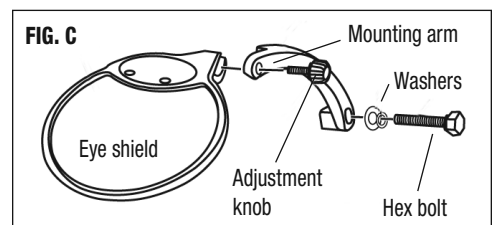
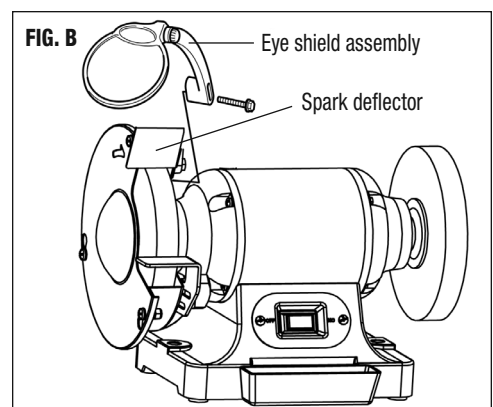
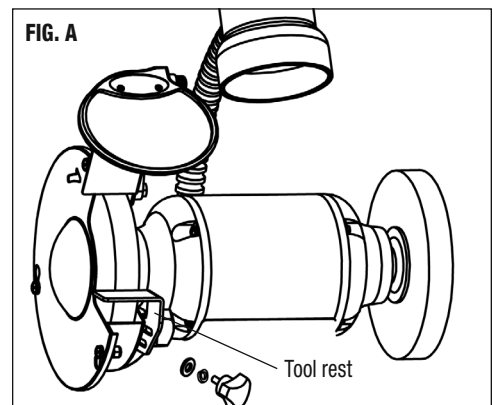
- Be Sure to **BECOME FAMILIAR** with all aspects of grinding wheel and buffing wheel operation before using. Objects can be violently propelled by the wheel at high speed causing serious injury or death!
- **DO NOT** attempt to operate without guards, shields and guides in place! Serious injury could result!
- **DO NOT** attempt to operate without base being securely and firmly attached to a solid work surface. Serious injury could result.
- **IMPORTANT NOTE:** Grinding creates hot sparks and metal fragments which are ejected from the wheel at a considerable distance.
 - Keep flammable materials and liquids away from the grinding area.
 - Use appropriate ANSI or CSA approved eye and face protection.
 - Keep people and pets away from the grinding area.
 - Keep long sleeves, other loose clothing and long hair away from rotating wheels. Serious injury could result.
- Buffing can emit hazardous dust and fibers. Use appropriate NIOSH approved breathing protection.
- Keep fingers and hands away from rotating wheels. Use locking pliers or other suitable device to firmly hold smaller items while grinding or buffing.
- Should grinding wheel become cracked or an unbalanced condition or vibration develops, **TURN OFF SWITCH** and **STOP USE IMMEDIATELY!**

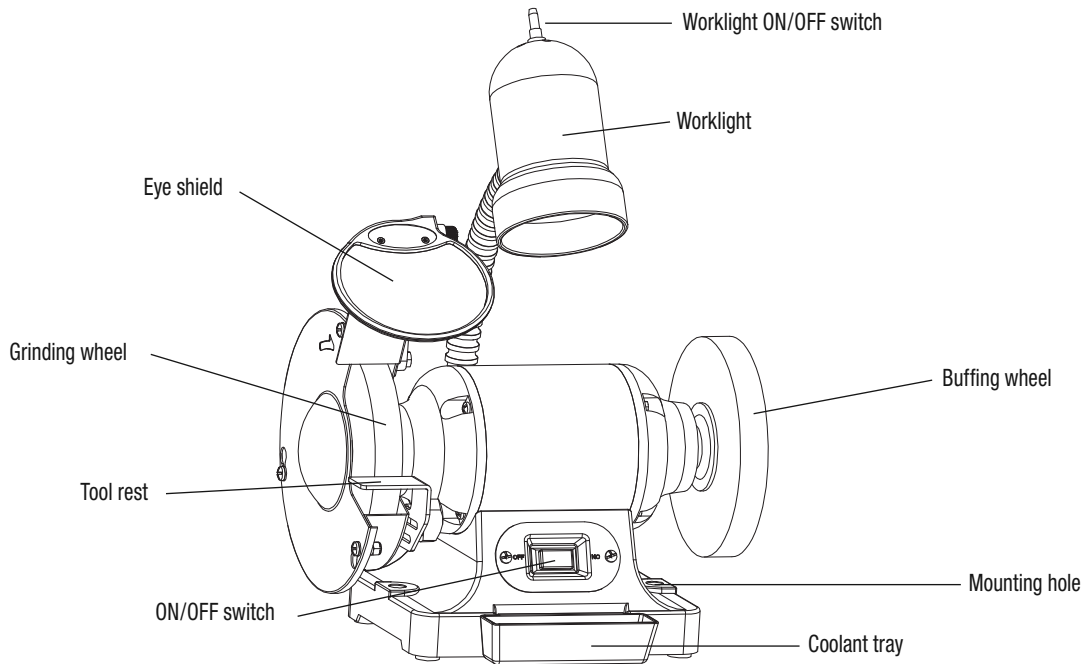
SPECIFICATIONS

- 120V AC/60Hz.
- 1/2 Horsepower Motor.
- 1/2" Shaft Diameter.
- 3450 RPM.
- 8" x 1" Left side Grinding Wheel, 36 Grit.
- 8" x 1" Right side Spiral Sewn, Cotton Buff Wheel.

ASSEMBLY AND SET-UP

- Remove Grinder/Buffer, parts bags and hardware from packaging. Be careful not to discard parts bags with packaging.
- Attach Tool Rest to lower edge of wheel guard opening with supplied knob screw, washer and lock washer (Fig A). Locate slot over pin and adjust so that rear edge of tool rest is 1/8" from wheel surface.
- Attach Spark Deflector over upper edge of wheel guard opening with supplied screws, washers and lock washers (Fig B). Keeping the bottom edge approx 1/16" from the wheel surface.
- Attach Eye Shield to curved mounting arm with supplied thumb screw, washer and lock washer (Fig C).
- Assemble Eye Shield assembly to hole at the inboard, 12:00 position of the left mounted Wheel Guard with supplied long hex head bolts, washers and lock washers (Fig B).
- Snap the coolant-tray into the brackets located on the base. Fill with clean water.



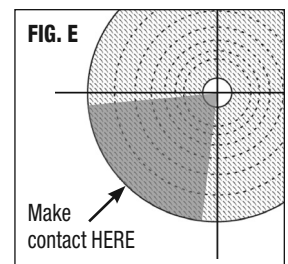


GRINDER OPERATION

- The grinder **MUST** be securely bolted or clamped to a solid work surface at a comfortable working height.
- Make sure the switch is in the **OFF** position before plugging in.
- Stand to one side and turn switch on then allow motor to reach operating speed. Check for vibration and shut-off immediately if any vibration is detected.
- **VERY IMPORTANT!** The wheel rotates in a Clockwise direction when viewed from the left side. When viewed from the front, the top segment of the wheel exposed by the shield is rotating toward the operator. **ALWAYS** grind objects pointing slightly downward and **NEVER** upward as they can be violently hurled toward you causing severe injury or death!
- Only apply a very light pressure against the wheel when grinding. **NEVER** push an object hard against a grinding wheel.
- Always use the tool rest for support and stabilization.
- Only allow the object being ground to contact the wheel for several seconds at a time. Heat will quickly build in the wheel and ground object which can cause damage and burns. Dip the object into the coolant in the tray as required.
- **NEVER** grind against the side of the wheel as an imbalance condition or even cracking can occur.

BUFFER OPERATION

- Stand to one side and turn switch on then allow motor to reach operating speed. Check for vibration and shut-off immediately if any vibration is detected.
- **VERY IMPORTANT!** The Buff Wheel rotates in a Counter-Clockwise direction when viewed from the right side. When viewed from the front, the top is rotating toward the operator. **ALWAYS** work on the segment of the buff wheel **BELOW** the centerline of the shaft so that it is rotating down and away from you. If applied **ABOVE** the centerline, objects can be violently hurled toward you causing severe injury or death (Fig E).
- **ALWAYS** buff objects pointing slightly downward and **NEVER** upward as they can be violently hurled toward you causing severe injury or death!
- Apply buff compound sparingly to the buff wheel, too much will clog the fibers and create a build-up on objects being buffed, preventing effective buffing.
- **NOTE:** The spiral-sewn, cotton buff wheel is a general use buff wheel which can be used with a variety of compound grades. Do not attempt to use different compounds on a single buff wheel. It is best to use a different buff wheel for each compound grade. There is an excellent selection of buffing compounds and buff wheels available in various forms of aggressiveness available at Eastwood. Please consult www.eastwood.com or request a catalog to view the selections available.



GENERAL TROUBLESHOOTING

- **Motor will not start when switch is turned on:**
 - Check 120 VAC input plug connection.
 - Check for binding of shielding, tool rests or guards against wheel.
- **Motor slows down while operating:**
 - Too much pressure being applied to the wheel. Reduce pressure.
 - Check for binding of shielding, tool rests or guards against wheel.

TROUBLESHOOTING – GRINDER SPECIFIC

- **Burned appearance on ground object:**
 - Too much pressure being applied to the wheel. Reduce pressure.
 - Ground object being held too long against wheel. Grind several seconds on, wait several seconds, re-grind.
 - Dip ground object into coolant.
- **Wheel wearing rapidly:**
 - Too much pressure being applied to the wheel. Reduce pressure.
 - Wheel too soft for material being ground, use harder wheel.
 - Ground object being held too long against wheel. Grind several seconds on, wait several seconds, re-grind.
- **Wheel loading up with metal:**
 - Too much pressure being applied to the wheel. Reduce pressure.
 - Wheel too hard for material being ground, use softer wheel.
 - Ground object being held too long against wheel. Grind several seconds on, wait several seconds, re-grind.
 - Too much heat in ground object. Dip into coolant.

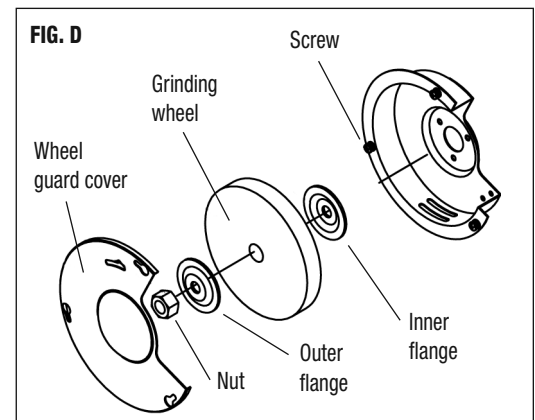
TROUBLESHOOTING – BUFFER SPECIFIC

- **Buff Wheel spreading or fraying:**
 - Too much pressure being applied to the wheel. Reduce pressure.
 - Buffed object too coarse for wheel grade. Choose a courser buff wheel.
- **Buff Wheel loading up or glazing:**
 - Too much buff compound being applied to the wheel. Clean wheel by GENTLY applying a large screwdriver blade pointing DOWNWARD against rotating wheel to clean. Apply less compound to wheel.
- **Buildup or caking of compound on object being buffed:**
 - Too much buff compound being applied to the wheel. Clean wheel by GENTLY applying a large screwdriver blade pointing DOWNWARD against rotating wheel to clean. Apply less compound to wheel.

REPLACING A WHEEL

Your grinder's unique quick-release covers make wheel replacement a snap.

- Make sure the Grinder/Buffer is **OFF** and **UNPLUGGED!**
- Loosen the three Phillips head screws (don't remove) and rotate the side plate of the wheel guard along the slots counter-clockwise until the holes clear the screw heads (Fig D). Set aside.
- Remove large retaining nut (Clockwise, reverse thread for the left side shaft and Counter-clockwise standard thread for the right side shaft) (Fig D).
- Remove Outer Flange Washer.
- Remove Grinding or Buffering Wheel.
- Replace in reverse order of disassembly. Be aware that the left side shaft is reverse threaded. **NOTE:** Do not over-tighten the Grinding Wheel Retaining Nut. Cracking of the Grinding Wheel could occur resulting in a dangerous condition.



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

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