

Eastwood
Elite

Item #58878

TG2000 CORDLESS TUNGSTEN GRINDER

INSTRUCTIONS



The **EASTWOOD ELITE TG2000 CORDLESS TUNGSTEN GRINDER** was specifically designed for the frequent user. Includes a rechargeable, long-life, 12-volt Lithium-Ion battery that provides ample power and charge for jobs away from the welding bench, or in the field, with cordless convenience. Features a long-lasting, double-sided, Diamond Grinding Wheel capable of providing over 200 tungsten sharpening's before requiring replacement. The high-speed electric motor allows the user to produce a finely sharpened point, at an ideal 10° or 22.5° preferred angle, in seconds. A unique tungsten Grinding Guide design accepts both 1/16" and 3/32" diameter tungsten electrodes for both breaking deformed tips and prepping new tungsten rods.

CONTENTS

- (1) Eastwood Elite Cordless Tungsten Grinder [A]
(Diamond Grinding Wheel installed)
- (1) Wall Charger [B]
- (1) Collet Wrench [C]



SPECIFICATIONS

- Wall Charger Input Voltage:** 120 VAC, 60Hz
- Wall Charger Output:** 13.5 VDC, 1500 mA
- Battery Specifications:** Lithium-Ion, 12 VDC, 2000 mAh
- Charger & Tool Certification:** ETL
- No-Load Speed:** 8,000 - 35,000 RPM (Variable Speed)
- No-Load Runtime:** 20 Minutes

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 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

WARNING! LITHIUM BATTERIES STORE A LARGE AMOUNT OF ENERGY AND WILL ERUPT IN FLAMES OR VIOLENTLY EXPLODE IF NOT PROPERLY HANDLED.



⚠ WARNING READ ALL SAFETY WARNINGS AND ALL 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.



⚠ WARNING SERIOUS INJURY, FIRE, AND EXPLOSION HAZARDS!

- Keep Dry – **DO NOT** operate or store in damp or wet conditions.
- **DO NOT** drop, short circuit, incinerate, expose to temperatures greater than 140°F [60°C].
- No user serviceable parts inside – **DO NOT** open tool.
- **DO NOT** attempt to charge or use this tool if damaged.
- **DO NOT** operate in explosive atmospheres such as explosive vapors, flammable liquids, gasses, or dust.
- Not a toy. Keep out of the reach of children.
- Charge tool only according to these instructions.
- **DO NOT** use any chargers other than the one specifically supplied with this tool.



⚠ WARNING HEALTH HAZARD!

- Dust and fine particles are generated while grinding which can contain hazardous or toxic substances. Breathing this dust can cause many serious respiratory health conditions. Always use NIOSH approved respiratory protection while using this Grinder.



⚠ WARNING EYE INJURY HAZARD!

- Rapidly moving abrasive surfaces can eject metal particles, dirt and debris at high velocity. Always wear ANSI approved eye protection when operating this tool.



⚠ WARNING INJURY HAZARD!

- The rotating Wheel of this Grinder can quickly catch loose clothing, long hair or jewelry causing serious personal injury. Keep all loose clothing, long hair, and jewelry away from operating Grinder.
- Always turn the Grinder switch to the “OFF” position before changing Wheels or performing maintenance.
- Sharpened tungsten points can cut. Always wear protective work gloves while handling sharpened tungsten.



⚠ CAUTION INJURY HAZARD!

- This Grinder can eject sparks in use which can ignite flammable materials or injure others nearby. Do not operate near flammable materials and keep all persons and pets away from the work area.



⚠ CAUTION HEARING DAMAGE HAZARD!

- This tool may emit high sound levels while operating. Use ANSI approved ear protection when operating.



⚠ CAUTION VIBRATION INJURY HAZARD!

- This tool will vibrate during use! Repeated exposure to vibration may cause physical injury.

FEATURES

The Eastwood Elite TG2000 Cordless Tungsten Grinder head features six machined slots:

- Two 1/16" slots; one angled at 10° and one at 22.5° to direct the tungsten at the preferred angle against the Diamond Grinding Wheel (**FIG 1**).
- Two 3/32" slots; one angled at 10° and one at 22.5° to direct the tungsten at the preferred angle against the Diamond Grinding Wheel (**FIG 1**).
- Two notches (1/16" & 3/32") cut into the top, outside edge of the Grinding Head. These slots are designed to grip the burned end of tungsten rods for clean breakage (**FIG 1**).

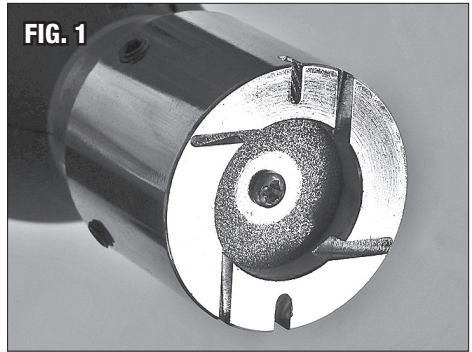


FIG. 2



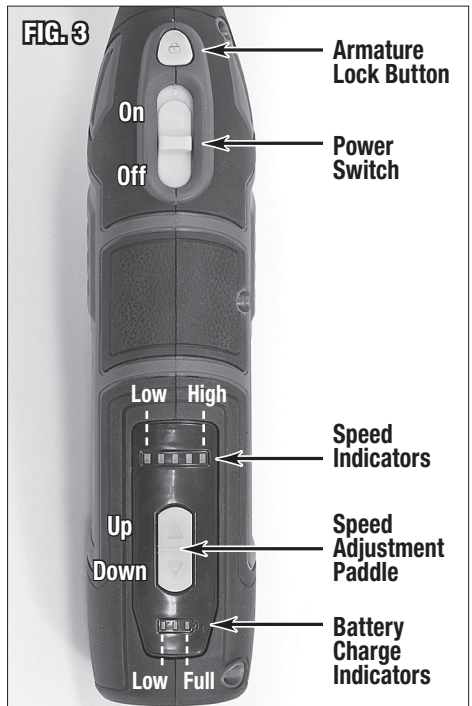
OPERATION

- Plug the Wall Charger into a properly grounded, 120VAC, 60Hz outlet and plug the USB-C charging cord end into the charging port at the rear of the Cordless Tungsten Grinder (**FIG 2**).
- Allow the battery to charge to full capacity as indicated by the three LED battery charge indicators (**FIG 3**) being fully illuminated. After charging, unplug the wall charger and USB-C charge plug.
- While holding the Eastwood Elite Cordless Tungsten Grinder securely, move the On-Off Switch (**FIG 3**) to the "On" position.

⚠ NOTICE

Whenever switched on, the speed setting will default to a middle setting of 3. Setting 4 is generally optimal for tungsten grinding, however this will vary upon user preference.

FIG. 3



- To begin grinding, allow several seconds for the motor to reach full speed, then gently place the tungsten into the proper width slot (**FIG 4**).
- Slowly and steadily allow the tungsten to contact the face of the Diamond Grinding Wheel while rolling the tungsten to create a sharpened tip. DO NOT force the tungsten but allow the abrasive of the Diamond Grinding Wheel to do the work.
- When the grinding is complete, withdraw the tungsten and move the On-Off Switch to the "OFF" position.

BREAKING OFF BURNED TIPS ON TUNGSTEN

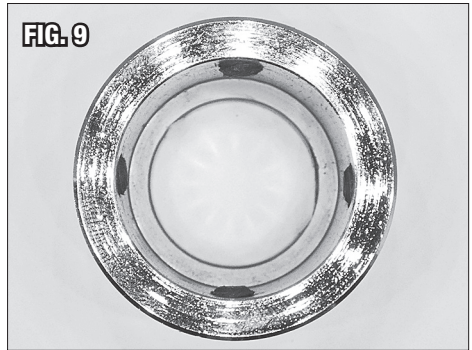
- Place the burned end of the tungsten into the proper width slot and quickly move the tungsten to the side to snap it off (**FIG 5**).

FLIPPING AND REPLACING DIAMOND GRINDING WHEEL

- Using a 3mm Hex Key (not included), loosen the four Retaining Set-Screws (**FIG 6**).
- Remove the Grinding Head and set it aside (**FIG 7**).



- Depress the Armature Lock Button and using a #1 Phillips screwdriver (not included), remove the Diamond Grinding Wheel Retaining Screw (**FIG 8**).
- Remove and flip the existing Diamond Grinding Wheel to reveal the fresh abrasive surface or replace with a new one.
- Re-install the Retaining Screw and tighten in place.
- Back out all four of the Retaining Set-Screws so that the ends are flush with the I.D. of the Grinding Guide (**FIG 9**).
- Slip the Grinding Guide back over the Arbor Housing.
- Tighten all four of the Retaining Set-Screws an equal amount so that the Grinding Guide opening is fully concentric with the Retaining Screw at the center of the Diamond Grinding Wheel (**FIG 10**).
- The Eastwood Tungsten Grinder is now ready for use.



MAINTENANCE

IMPORTANT NOTE: The following maintenance should be performed before each use:

- Check Diamond Grinding Wheel Retaining Screw and Grinding Guide Retaining Set-Screws for tightness.
- Inspect Diamond Grinding Wheel for cracks, damage, or premature wear.
- Clean dirt and debris from motor air cooling slots.

BATTERY AND CHARGING

- The charge status is indicated by the three LED indicators below the Speed Adjustment Paddle (**FIG 3**). When the tool is not receiving a charge and powered on, they will illuminate to show battery charge status:
 - Three bars:** Indicates the battery is at or near full charge.
 - Two bars:** Indicates the battery is at an intermediate charge state with a significant amount of run time left.
 - One bar:** Indicates the battery is low. Consider charging soon.
 - One bar flashing:** Battery is extremely low. Discontinue use and charge immediately.
- If the battery runs out of charge while switched on, the unit will turn off the motor and all LED indicators will flash rapidly five times before turning off. Switch the unit off and charge immediately.
- To charge the battery, plug the wall charger into a 120VAC, 60Hz outlet.
- Plug the USB-C charging cord end into the charging port at the rear of the Cordless Tungsten Grinder (**FIG 2**).
- The battery charge status will now be indicated by the LED battery charge indicators (**FIG 3**) lighting up in a sweeping pattern. As charge progresses, the bar(s) will stay lit and the remaining will continue to sweep. Once the battery is fully charged all three will remain lit.
- Approximate charge time from depleted to full is two hours.
- After charging, unplug the wall charger and USB-C charge plug.
DO NOT leave the charger plugged into the unit and the wall for extended periods of time.

TROUBLESHOOTING

PROBLEM	CAUSE	CORRECTION
Does Not Run When Switch is On	Battery out of charge	Charge the battery
	Battery damaged	Contact Eastwood Technical Assistance: techelp@eastwood.com or 800.544.5118.
Motor Stops During Use	Battery out of charge	Charge the battery
	Battery damaged	Contact Eastwood Technical Assistance: techelp@eastwood.com or 800.544.5118.
Excessive Noise and/or Vibration	Diamond Grinding Wheel is damaged	WARNING! This is an extremely dangerous condition! Stop Use and replace Diamond Grinding Wheel!
Motor Runs but Wheel Does not Spin	Wheel is Loose.	Check Phillips Head Screw and ensure Wheel is tight
	Collet is Loose	Remove Tungsten Grinding Guide, Wheel, and Arbor Guide. Using Provided Collet Wrench, ensure Collet is tight.
Tungsten Grinder Overheats	Excessive pressure being applied to tungsten	Allow Diamond Grinding Wheel to cut by rotation alone. DO NOT Force.
	Dirt and debris buildup in motor cooling air slots	Use a brush or compressed air to remove debris.

TROUBLESHOOTING

PROBLEM	CAUSE	CORRECTION
Battery Does NOT Indicate it is Charging While Plugged In	Wall charger damaged	Contact Eastwood Technical Assistance: techelp@eastwood.com or 800.544.5118.
Battery Does Indicate it is Charging While Plugged In, but is Not Reaching a Higher Charge State	Battery damaged	Contact Eastwood Technical Assistance: techelp@eastwood.com or 800.544.5118.

ADDITIONAL ITEMS

#33308 Replacement Diamond Grinding Wheels, 6 Pack

#33309 Replacement Diamond Grinding Wheels, 2 Pack

#20177 3/32" x 7" E3 Purple Tungsten Rods, 2 Pack

#20176 1/16" x 7" E3 Purple Tungsten Rods, 2 Pack

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

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