

INSTRUCTIONS: 12 VOLT CARBIDE GRINDER

Congratulations on the purchase of your BITEHARDER® 12 Volt Carbide Grinder. This product is hand made in the U.S.A. of quality materials. All components are carefully machined on state of the art manufacturing equipment, and assembled with pride, to the highest quality standards.

Our 12 Volt Carbide Grinder allows you the convenience of sharpening your carbide runners using the power of your snowmobiles battery.

This product is designed to work in conjunction with our Standard Series – Carbide Runner Sharpening Tool only. Other tools are not recommended.

The following operating instructions and important safety rules/warnings will allow you to maximize the effectiveness and longevity of your BITEHARDER® 12 Volt Carbide Grinder.

CAREFULLY READ THIS ENTIRE INSTRUCTION SHEET BEFORE USING YOUR 12 VOLT CARBIDE GRINDER.

OPERATING INSTRUCTIONS:

1. Properly attach the battery connector cable to your snowmobile battery (see “Attaching Cable to Battery” section below).
2. Using the hex wrench supplied, remove the set screw on the carbide grinders shaft adapter. Fully insert the shaft of your BITEHARDER® Standard Series Carbide Runner Sharpening Tool to the shaft adaptor. Re-install and securely tighten the set screw.
3. Securely position your snowmobile on its side and firmly hold the ski from moving.
4. With the carbide grinder power switch in the “OFF” position, connect the carbide grinder to the battery connector cable using the supplied extension cable.
5. Turn “ON” the carbide grinder and gradually contact the carbide sharpening tool with the carbide runner.
6. Using light pressure, slowly move the tool back and forth along the carbide runner in a continuous and uniform motion. Applying too much force can cause the carbide grinder to stall.
7. After approximately 20 seconds of sharpening, turn “OFF” your carbide grinder and review the carbide runners edge. Once your carbide runner is sharp, the process is complete.

FOR BEST RESULTS:

- When operating the carbide grinder do not apply excessive pressure, causing the carbide grinder to stall. Use a light pressure when sharpening your carbide runner. This will allow the tool to sharpen the carbide runner more effectively and achieve the best results.
- Your 12 Volt Carbide Grinder is designed to be used for short periods of operation. Extended operation may drain your battery and cause the unit to fail prematurely.

12 VOLT CARBIDE GRINDER SAFETY RULES AND WARNINGS:

- Use only supplied BITEHARDER® battery connector cable, extension cable and connectors.
- Never place any part of your body in contact with the carbide grinder during use. Do not wear loose clothing or jewelry. Keep hair, clothing and gloves away from moving parts. Always wear proper protective clothing and equipment, including face, eye, and tight fitting hand protection
- The use of a dust mask is recommended. Read and understand all risks associated with carbide grinding.
- Always disconnect the power cord from the power source before making any adjustments or attaching any accessories. Failure to do this may unexpectedly cause the tool to start operating, and potentially cause serious personal injury.
- When changing sharpening tools, make sure the tool is properly secured to the shaft adapter by tightening the set screw with the supplied hex wrench. Improperly mounted or loose tools can unexpectedly shift, be ejected from the shaft adapter and cause loss of control.
- Remove set screw hex wrench before turning the power tool on. A wrench left attached to a rotating part of the power tool may result in personal injury.
- To prevent unintentional carbide grinder starting, assure the switch is in the off-position before attaching the unit to power.

- Always hold the carbide grinder firmly in your hand during the start-up. The reaction torque of the motor, as it accelerates to full speed, can cause the grinder to twist.
- Do not overreach in the area of the spinning tool or shaft adapter. The proximity of the spinning tool to your hand may not always be obvious.
- Do not leave a carbide grinder unattended. When not in use turn the power off and/or disconnect the plug. Only when the carbide grinder comes to a complete stop is it safe to put it down.
- Do not operate your carbide grinder with damaged cables or an improper battery connection.
- Do not expose your carbide grinder to rain or wet conditions. Water entering the tool will increase the risk of electric shock and failure.
- Never disassemble any portion of the carbide grinder housing since internal wires may be misplaced or pinched. Your carbide grinder should only be serviced through BITEHARDER.
- Do not alter or misuse the carbide grinder. Any alteration or modification is a misuse and may result in serious personal injury.

ATTACHING CABLE TO BATTERY (NEGATIVE GROUND SYSTEMS): Attach the battery connector cable to your snowmobile battery by first checking the polarity of the battery posts. Connect the red ring terminal to the positive battery post and the black ring terminal to the negative battery post or vehicle chassis. Do not connect the negative ring to any areas related to fuel system delivery or thin sheet metal parts. Route cable to avoid chaffing and expose connector end for ease of accessibility.

BITEHARDER does not recommend the use of battery attachments that are not sold by BITEHARDER®. Improper connections could result in carbide grinder damage, battery damage, electrical shock, fire, or other potential personal injury.

BATTERY WARNINGS:

Battery posts and terminals contain lead, lead components/chemicals known to the State of California to cause cancer and birth defects/reproductive harm. After contacting these devices, wash hands thoroughly.

CARBIDE DUST WARNING:

Grinding or sharpening carbide will produce a dust of potentially hazardous ingredients which can cause nose, throat, skin and eye irritation and possible temporary or permanent respiratory disease in a small percentage of exposed individuals. Permanent respiratory disease can lead to disability or death. Take precautions and avoid breathing dust. Avoid prolonged skin contact with dust. Always use adequate ventilation when grinding or sharpening. Use protective devices such as an appropriate mask/respirator and appropriate eyewear at all times. Immediately wash hands thoroughly, after each use.

TROUBLESHOOTING: If the 12 Volt Carbide Grinder will not operate check the following;

- Toggle switch is in the "ON" position
- Plug connections are fully engaged
- Battery connector cable fuse is not damaged
- Battery/chassis connections are properly made and not corroded
- Battery is fully charged

TECHNICAL SPECIFICATIONS:

• WEIGHT	24 OUNCES
• SIZE	1.70 INCH DIAMETER BY 5.00 INCHES LONG (HOUSING)
• POWER	12 VOLTS (NEGATIVE GROUND)
• FUSE TYPE	15 AMP (BLADE STYLE)
• SPEED	2500 RPM's
• SHAFT ADAPTER	¼ INCH
• SHAFT ADAPTER SET SCREW	#6-40 UNF (1/16 HEX WRENCH)

TWO YEAR LIMITED WARRANTY: BITEHARDER will repair, without charge, any problems with your 12 Volt Carbide Grinder due to faulty materials or workmanship, up to two years from the date of purchase. Normal wear, grinder abuse, disassembly or improper electrical connection, is not covered under this warranty. This warranty is non-transferable from the original purchaser. For additional information regarding warranty repair, contact us via email at support@biteharder.com, or call 1-855-294-BITE (1-855-294-2483). This warranty does not apply to BITEHARDER® sharpening tools manufactured for use with the 12 Volt Carbide Grinder.