

MACHINE INSTRUCTIONS

Before plugging in the 8 inch Mini-Grinder, please read all instructions thoroughly. The machine is an electric power tool and can cause personal injury or suffer damage if it is improperly used.

CAUTION

1. NEVER operate the 8-inch Mini-Grinder without goggles or other protective eye equipment. Be sure that anyone who is observing or is nearby had adequate eye protection as well.
2. Take care that no water or oil is allowed to run down the shaft and into the motor, as this will cause the motor to instantly burn out. The machine is designed in such a way that this does not occur with normal use.
3. Do not allow the water level to build up in the machine basin. Be sure that the drainage hole is open so that the used water flows properly into the run-off cup. Should the hole be plugged and the water level be allowed to rise unchecked, water could possibly leak down the motor shaft, causing motor burnout.
4. Always unplug the 8 inch Mini-Grinder while maintaining, cleaning, or when not in use.
5. Do not use the Diamond disk or smoothing pads dry. Working with dry disks can damage the disks as well as create dust that is harmful to breathe.
6. Read the copy of "Safety Rules for Power Tools" enclosed with your machine.

OPERATING INSTRUCTIONS

1. Carefully unpack the machine and set it on a table. Check to see that no damage has occurred in shipment. Check all packing materials to be sure that no small parts are inadvertently discarded.
2. Make sure that when your diamond disks are seated on the wheel head that they spin below the water shield. The black water shield has two large screws at the front on either side; these are used to raise or lower the water shield, as needed.
3. Install the water system, consisting of a black plastic cup, a valve tube and a drain cup. Place the end of the tube (with valve on it) firmly in the hole in the cup, then position the cup on top of the water shield. Turn drain 1/4 turn. Position drain cup. Return drain to original position. Fill top cup with CLEAN water (never re-use water). Set the Diamond disks or smoothing pad on the wheel head magnetically, centering it on the plate. Put on your safety goggles, turn on the power switch and adjust speed accordingly.
4. Adjust the valve on the water tube until water drips slowly and steadily onto the spinning disk. Now you are ready to shape your material.

DIAMOND DISK: USE AND CARE

1. METAL BONDED DIAMOND DISK

- a. Metal bonded diamond disks are used for the stock removal and shaping of hard to grind materials covering a wide hardness range. Never use disks dry; use only clean water as a lubricant. Do not use wipers or sponges as they can become contaminated with cutting debris and larger diamond particles. Contaminations from coarse material will cause hard to remove scratches in the material you are working on.

- b. If a sharp edge is present on your material, gently introduce the edge to the diamond disk. This prevents unnecessary wear and/or damage to your diamond disk; it will also prevent possible chipping of your material.
- c. When finished with the disk, rinse and spin dry completely. Store in a clean dry area.

2. DIAMOND SMOOTHING PADS

- a. These disks are used following the Metal Bonded Diamond disks to further refine the desired shape. It also removes scratches and flat spots left from the Metal rough grinding operations. It is important to remove all scratches from previous operations, as they are difficult or impossible to remove later on.
- b. When finished with the Diamond Smoothing pad, rinse thoroughly with clean water, spin dry and store in a clean dry area. Rinse black water shield before proceeding to the next step.

3. SYNTHETIC FELT POLISHING PAD

- a. The Synthetic Felt Polishing Pad is charged with Cerium Oxide compound and is used for the final polish. Be sure to use this pad with Cerium Oxide as it will not polish on its own, but is only a carrier for the polishing powder. The pad is used with a very slight drip of water.
- b. Squeeze a small amount of mixed cerium oxide (usually 1:3 with water) onto the Synthetic Felt pad. Turn the machine on so that it spins slowly and will distribute the cerium over the working area of the pad. Turn the machine up to working speed and apply your piece.
- c. When finished, store the Synthetic Felt pad in a clean dry plastic bag.

MAINTENANCE

1. CLEANING

After use, the 8 Inch Mini-Grinder is easily disassembled for cleaning. Remove and rinse the black water shield. Wipe the machine basin with a damp towel. Pour a small amount of water into the drain to remove debris from the drain. Rinse and dry drain cup. Do not pour wastewater down a sink. Allow the machine to dry completely. Store in a safe place out of the reach of children.

WARRANTY

Warranty covers failure in the material and workmanship for one year from the date of original purchase. Any failed part will be repaired or replaced without charge.

This warranty does not cover damage caused by misuse, abuse, accidents or alterations.

ELECTRICAL SAFETY- SAFETY RULES FOR POWER TOOLS

KEEP WORK AREA CLEAN – Cluttered areas and benches invite accidents.

STORE IDLE TOOLS – When not in use, always store tools in a high, dry, or locked up place out of the reach of children.

AVOID DANGEROUS ENVIRONMENT – Never expose power tools to rain. Never use power tools in damp or wet locations. Keep work areas well lit.

KEEP CHILDREN AWAY – All visitors should stay a safe distance from the work area.

DON'T "FORCE" A TOOL – Tools perform much better at the rate for which they were designed.

WEAR PROPER APPAREL – Never wear loose clothing or jewelry that can easily get caught in moving parts. Rubber gloves and rubber footwear are recommended when working outdoors.

USE THE RIGHT TOOL – don't force a small tool or attachment to do the job of a heavy-duty tool.

ALWAYS WEAR SAFETY GLASSES – Use a facemask or a dust mask if the operation is dusty.

DON'T ABUSE THE CORD – Never carry a tool by the cord or yank the cord to disconnect it from a receptacle. Keep cords away from heat, oil and sharp edges.

DON'T OVER REACH – Keep proper footing and balance at all times.

MAINTAIN TOOLS WITH CARE – Keep them sharp and clean for best and safest performance.

DISCONNECT TOOLS – Always disconnect tools before servicing, when not in use and when changing accessories such as blades, bits, cuter, etc.

REMOVE ADJUSTING KEYS AND WRENCHES – Check for keys and adjusting wrenches that are still in place before starting the tool.

AVOID ACCIDENTAL STARTING – Never carry a plugged in tool with your finger on the switch. ALWAYS be sure the switch is off before plugging in.

WHEN USING A TOOL OUTDOORS – Only use extension cords suitable and marked for outdoor use.

NEVER USE THIS POWER TOOL IN AN EXPLOSIVES ENVIRONMENT.