

#86694 MicroLux Micro Rotary Tool User's Guide

POWER

This tool runs on 110v AC household current and provides 20 watts of power. Rated continuous maximum run time is 15 minutes with a 50/50 duty cycle. Run for 15 minutes, rest for 15 minutes.

For shorter intervals of run time and between uses, you should determine the length of rest that tool requires by the heat being circulated out by the tool's cooling fan, located just behind the driveshaft locking button. Running the tool in this manner will give the user maximum life and best use of this finely-made rotary tool.

SPEED

Speed is variable, from 7,000 to 16,500 rpm, by rotating the thumbwheel in front of the On / Off rocker switch.

POWER SWITCH CONTROL

"I" for On and "O" for Off.

USER INFORMATION

This tool was designed for *precision* drilling, grinding and buffing. It accepts only 3/32" mandrel bits and burrs, making this tool unique. Because of this design, the tool will run drills and burrs with nearly *zero run-out*. Unlike Dremel-style collets, which grab at the top tip of the mandrel only, this tool engages the entire shank resulting in zero-run-out. Micro Mark offers a series of micro drills specifically made for this tool. You can see these and other accessories on our website under item number 86694.

OPERATION

You will find a driveshaft lock button just behind the nose of the tool. To lock the shaft in order to change out bits, follow these simple steps:

- Turn off the tool by switching the rocker switch to "O".
- Unplug the tool from the outlet. Pull by plug, not by cord.
- Depress the button and hold it down while spinning the collar nut by hand. When you feel the button drop in further, the shaft will lock.
- Continue to hold the button down, and with your fingers or with the provided wrench securing the flat of the collar, rotate the collar counter-clockwise in order to release the bit. A quarter-turn is sufficient to remove or install a bit. To install, rotate the collet nut clockwise until it is tightened. Attempt to remove the bit by pulling on it in order to make sure that the new bit or burr is held firmly.
- Plug the tool back in, flip the rocker switch to "I," adjust to your desired speed, and continue with your work.

GENERAL SAFETY

Keep work area clean and well lit. Cluttered or dark areas invite accidents. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.

Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.

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.

PERSONAL SAFETY

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.

Use personal protective equipment. Always wear eye protection. Protective equipment such as a dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.

POWER TOOL USE & CARE

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. 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.

SAFETY RULES FOR ROTARY TOOLS

Accessories must be rated for at least the speed recommended on the tool warning label. Wheels and other accessories running over rated speed can fly apart and cause injury.

Always disconnect the power cord from the power source before making any adjustments or attaching any accessories. You may unexpectedly cause the tool to start leading to serious personal injury.

Allow brushes to run at operating speed for at least one minute before using wheel. During this time no one is to stand in front or in line with the brush. Loose bristles or wires will be discharged during the run-in time.

The direction of feed with the bit into the material when carving, routing or cutting is very important. Always feed the bit into the material in the same direction as the cutting edge is exiting from the material (which is the same direction as the chips are thrown). Feeding the tool in the wrong direction, causes the cutting edge of the bit to climb out of the work and pull the tool in the direction of this feed.

SERVICE & MAINTENANCE

Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

Regularly clean the tool's air vents by compressed air. Excessive accumulation of powdered metal inside the motor housing may cause electrical failures.

WARNING: Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are: Lead from lead-based paints • Crystalline silica from bricks and cement and other masonry products • Arsenic and chromium from chemically treated lumber. Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals, work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.