

MULTI-TOOLS & OSCILLATING TOOLS

Power tools require operator respect in specific ways. They must be used carefully and kept in safe operating condition, whether they are in the hands of a professional tradesman, an amateur do-it-yourselfer, or a vocational student. *The demands of safety apply to all.* The material presented here is a compilation of carefully selected safe use precautions as they relate to specific electric power tool CAUTIONS, WARNINGS and DANGERS. The purpose is to highlight the safe use of specific tools that have a potential of causing injury if ignored. The warnings and instructions on the power tool and in its operator's manual provide the best source of safety information for the tool. Read and understand the contents and follow the advisements of operator's manuals on each specific power tool and all related accessories. This is considered essential to the safe operation of any power tool. Review PTI's *Safety is Specific* publication for general power tool safety.

Multi-Tools and Oscillating tools perform a wide variety of jobs, including sawing, cutting scraping, and sanding.

Good Personal Safety is a Must

Following good safety practices when using a multi-tool is a must. Make a habit of including safety in all your activities as discussed in the General Safety section.

Choose the Right Tool and Accessory

Choosing the correct tool and the proper accessory for your application can help to reduce the risk of serious injury. When used according to the manufacturer's instructions, the proper tool and accessory will make the job safer and faster.

- Use the correct accessory for your tool. Check this carefully: Does it fit the spindle of the tool. Accessories with spindles that do not match the tool will wobble and vibrate and may cause loss of control.
- Do not use accessories which are not specifically designed and recommended by the tool manufacturer. Just because the accessory can be attached to your power tool, it does not assure safety operation.
- Do not install application tool (accessory) upside down.
- Install application tool (accessory) in the correct direction according to the work.
- Accessories must be used only for recommended jobs.
- Be sure that there are no cracks or breakage on the pad before use. Cracks or breakage may cause a personal injury.
- Do not use accessories that require liquid coolant.

Know your Workpiece

Take time to review your work piece and make sure that all necessary precautions have been taken before cutting, scraping, or sanding.

- Use clamps or another practical way to secure and support the workpiece to a stable platform.
- Always place the work piece securely in a vise or clamp securely. Never make freehand cuts. Holding the work piece by hand is unstable and may lead to loss of control.

Before Cutting, sawing, sanding, and scraping...

Before working with the multi-tool / oscillating tool, make sure the tool and its accessories are in proper working order. Failure to do so may increase your risk of injury.

- Be sure the switch is in the "off" position before plugging it in or inserting the battery.
- Do not use a tool if the switch does not turn off when returned to the "off" position after release.
- Keep your hand and face away from the application tool (accessory).
- Make sure that there is no buried object such as electric pipe water pipe, or gas pipe in the workpiece.
- Use clamps or another practical way to secure and support the workpiece to a stable platform. Holding the workpiece by hand or against your body leaves it unstable and difficult to control.
- Always use the correct dust mask/respirator for the material and application you are working with.

While Cutting ...

- Always hold the tool by the insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring or its own cord. Contact with a "live" wire will make exposed metal parts of the tool "live" and shock the operator.
- Do not use the tool in wet conditions.
- Hold the tool firmly.
- Keep hands away from moving parts.
- Do not leave the tool running. Operate the tool only when hand-held.
- Always switch off and wait for the blade to come to a complete stop before removing the blade from the workpiece.
- Keep your hands away from all cutting edges and moving parts. Never place your fingers in line with the blade.
- Keep bystanders a safe distance away from work area. Anyone entering the work area must wear personal protective equipment.
- Never lay the power tool down until the accessory has come to a complete stop.
- Do not operate near flammable materials.
- Always have a firm footing. Be sure no one is below when using the tool in high locations.
- Do not run the tool while carrying it at your side.
- Do not move on the tool forcibly in the direction (e.g. towards either side) of the application tool with no cutting edge. It may damage the tool.
- Operate the tool with appropriate load.

When Done Cutting...

- Do not touch the application tool or the workpiece immediately after operation; they may be extremely hot and could burn your skin.
- Unplug or remove the battery, clean and store the tool in a safe, dry place after use.

Before Sanding..

- Before working with a sander, make sure the tool and its accessories are in proper working order. Failure to do so may increase your risk of injury.
- Adequate ventilation of your work area is very important when using any type of sander.
- Be sure that there are no cracks or breakage on the sanding pad before use. Cracks or breakage may cause a personal injury
- Before connecting the sander to the power supply or installing the battery, be sure the switch and switch lock (if provided) are in the "OFF" position. If not, the sander will start immediately and could result in injury.
- Use of this tool to sand some products, paints and wood could expose user to dust containing hazardous substances. Use appropriate respiratory protection.
- Keep power supply and cords from entanglement with the moving parts of the sander. Damaged cords can result in an electrical shock.
- Do not use the dust extraction attachment when sanding metal. Sucking spark and hot particle results in smoking and ignition. It is recommended to determine a suitable orbital stroke rate by sanding a test material sample as trial.

While Sanding..

- Hold the tool firmly.
- Keep bystanders a safe distance away from work area. Anyone entering the work area must wear personal protective equipment.
- It should never be necessary to force the multi-tool. The weight of the tool applies adequate pressure. Forcing too much pressure can cause stalling, overheating of the tool, burning of the workpiece
- Do not operate the power tool near flammable materials.
- Do not reuse sanding paper used for sanding metal to sand wood.

- Do not use worn sanding paper or sanding paper without grit.

When Done

- When you are done sanding, switch the tool to the “OFF” position and hold the tool motionless until the sanding disc comes to a complete stop. Never try to remove sandpaper while the sanding pad is still rotating.
- Never lay down the portable tool until the sanding pad has come to a complete stop. Sanding pad may grab a work surface and pull the tool out of your control.
- Unplug or remove the battery, clean and store the tool in a safe, dry place after use.

Always Remember...

- Be careful not to expose to liquids, or to use in damp, wet locations.
- Be alert at all times, especially during repetitive operations. Don't be tempted into carelessness due to a false sense of security. Blades are extremely unforgiving.
- To reduce the risk of injury, always unplug the multi-tool or remove the battery from the multi-tool when moving from a workstation.

NOTICE

The contents are not meant to be, nor should they be considered, an absolute or complete presentation of the safety measures and procedures that relate to using the power tools covered. Obviously every possible application cannot be foreseen. This brochure's purpose is to highlight only some important safety and safety related information compiled from the experience of Institute members and other reliable safety oriented sources. Individual manufacturers' tool operator's manuals, shipped with tools and accessories, are recommended as a final source for proper procedures for specific tool usage.