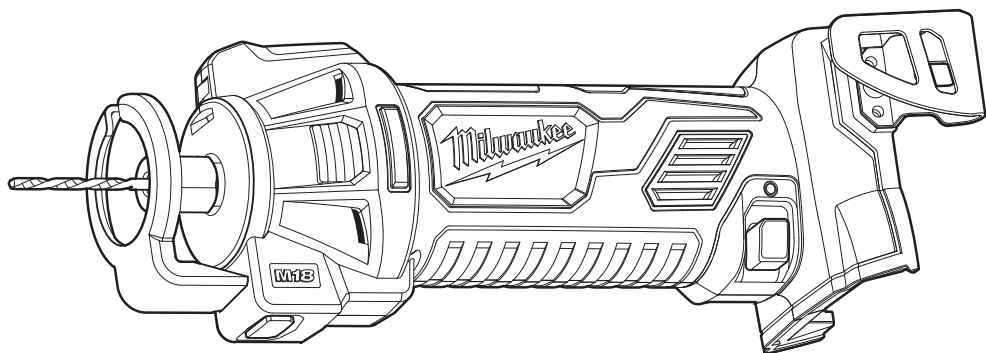




## OPERATOR'S MANUAL



Cat. No. / No de cat.

**2627-20**

**M18™ CUT OUT TOOL**



**WARNING** To reduce the risk of injury, user must read and understand operator's manual.

## GENERAL POWER TOOL SAFETY WARNINGS

**⚠WARNING** Read all safety warnings, instructions, illustrations and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury. **Save all warnings and instructions for future reference.** The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

### WORK AREA 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.

### ELECTRICAL SAFETY

- **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** Unmodified plugs and matching outlets will reduce risk of electric shock.
- **Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
- **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.
- **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.
- **If operating a power tool in a damp location is unavoidable, use a ground fault circuit interrupter (GFCI) protected supply.** Use of an GFCI reduces 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.
- **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.** Carrying power tools with your finger on the switch or energizing power tools that have the switch on invites accidents.

- **Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- **Dress properly. Do not wear loose clothing or jewelry. Keep your hair and clothing away from moving parts.** Loose clothes, jewelry or long hair can be caught in moving parts.
- **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of dust collection can reduce dust-related hazards.
- **Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles.** A careless action can cause severe injury within a fraction of a second.

### POWER TOOL USE AND 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.
  - **Disconnect the plug from the power source and/ or remove the battery pack, if detachable, from the power tool before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.
  - **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.
  - **Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.
  - **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
  - **Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation.
  - **Keep handles and grasping surfaces dry, clean and free from oil and grease.** Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.
- ### BATTERY TOOL USE AND CARE
- **Recharge only with the charger specified by the manufacturer.** A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
  - **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.

- When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another. Shorting the battery terminals together may cause burns or a fire.
- Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.
- Do not use a battery pack or tool that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion or risk of injury.
- Do not expose a battery pack or tool to fire or excessive temperature. Exposure to fire or temperature above 265°F (130°C) may cause explosion.
- Follow all charging instructions and do not charge the battery pack or tool outside the temperature range specified in the instructions. Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.

### SERVICE

- 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.
- Never service damaged battery packs. Service of battery packs should only be performed by the manufacturer or authorized service providers.

### SPECIFIC SAFETY RULES FOR CUT OUT TOOL

- Hold power tools by insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring. Contact with a "live" wire will make exposed metal parts of the tool "live" and shock the operator.
- Use clamps or another practical way to secure and support the workpiece to a stable platform. Holding the work by hand or against your body leaves it unstable and may lead to loss of control.
- Always check the work area for hidden wires before use. Shut off all live electric circuits to any areas where cut outs will be made to reduce the risk of explosion, electric shock and property damage.
- Always use the depth guide to avoid plunging too deep through the material. Plunging too deeply could cause contact with electric wiring.
- Check all adjustments are secure before use to avoid injury.
- Use only cutting bits rated for the speed marked on the tool. Other types could cause injury, tool damage, or property damage.
- This tool is not a drill. Do not use with drill or screwdriver bits.
- Allow the cutting bit to reach full speed before contacting the workpiece. Contact with the workpiece during startup can cause the tool to jump.
- Ensure the tool comes to a complete stop before laying it down. A spinning cutting bit can grab a surface, causing injury or damage.
- Do not touch the bit immediately after use. It may be hot and could burn skin.

•Maintain labels and nameplates. These carry important information. If unreadable or missing, contact a MILWAUKEE service facility for a free replacement.

**▲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 paint
- crystalline silica from bricks and cement and other masonry products, and
- 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.

### SYMBOLOLOGY



Volts



Direct Current

n<sub>0</sub> XXXX min<sup>-1</sup> No Load Revolutions per Minute (RPM)



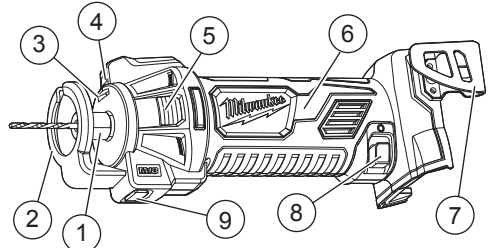
UL Listing for Canada and U.S.

### SPECIFICATIONS

Cat. No.....	<b>2627-20</b>
Volts.....	18 DC
RPM.....	28,000
Spiral Cutting Bits*.....	1/8" & 1/4" Shanks
Battery Type.....	M18™
Charger Type.....	M18™

\* For use in cutting drywall and multipurpose material.

### FUNCTIONAL DESCRIPTION



- |                        |                                  |
|------------------------|----------------------------------|
| 1. Collet nut          | 6. Handle                        |
| 2. Depth guide         | 7. Belt clip                     |
| 3. Dust blower         | 8. ON/OFF switch                 |
| 4. LED worklight       | 9. Depth guide adjustment button |
| 5. Spindle lock button | 10. 5/8" Wrench (not shown)      |

## ASSEMBLY

**▲WARNING** Recharge only with the charger specified for the battery. For specific charging instructions, read the operator's manual supplied with your charger and battery.

### Removing/Inserting the Battery

To **remove** the battery, push in the release buttons and pull the battery pack away from the tool.

**▲WARNING** Always remove battery pack before changing or removing accessories.

To **insert** the battery, slide the pack into the body of the tool. Make sure it latches securely into place.

**▲WARNING** Only use accessories specifically recommended for this tool. Others may be hazardous.

### Installing and Removing Bit

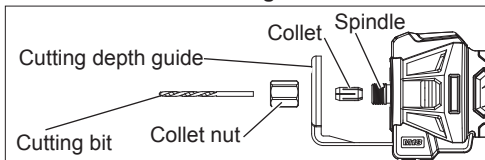
Use only spiral cutting bits with a 1/8" or 1/4" shank.

**▲WARNING** Bits are sharp. Handle with care. Never tighten the collet nut without a bit installed.

When replacing bits, do not insert cutting flutes into the collet. This may result in broken bits

Never tighten the collet without a bit installed.

Always use the correct collet for the cutting bit. Use 1/8" collets for 1/8" cutting bit shanks. Use 1/4" collets for 1/4" cutting bit shanks.



1. Remove battery pack.
2. Press in the spindle lock button and remove the collet nut (counterclockwise) with the wrench provided.
3. Place the properly sized collet into the spindle (1/8" or 1/4").
4. Insert the bit shank into the collet. Ensure the collet only contacts the bit shank and the bit cutting flutes are fully exposed.
5. Screw the collet nut onto the spindle.
6. Press in the spindle lock button and tighten the collet nut (clockwise) with the wrench provided.
7. To remove or change the bit, reverse procedure.

### Depth Guide

Use the tool-free depth adjustment to set the depth guide before each cut.

1. Press in the depth guide adjustment button.
2. Slide the guide in or out.
3. Release the depth guide adjustment button. Ensure the depth guide is securely locked in place before use.
4. For best results, set the depth guide so the cutting bit extends 1/8" beyond the workpiece.

## OPERATION

**▲WARNING** To reduce the risk of injury, always wear safety goggles or glasses with side shields.

Do not cut materials embedded with nails, screws, or staples. Contact with a foreign material could make the tool to jump, causing injury or damage.

### Cutting

To turn **ON** the tool, press the switch from the "I" position. The LED will light when the tool is turned on. To turn **OFF** the tool, press the switch from the "O" position.

**▲WARNING** Always check the work area for hidden wires before use. Shut off all live electric circuits to any areas where cut outs will be made to reduce the risk of explosion, electric shock and property damage.

1. Move any wiring in the wall or ceiling away from the path of the bit.
2. Set the depth guide so bit extends 1/8" beyond the material. **WARNING!** Always use the depth guide to avoid plunging too deep through the material. Plunging too deeply could cause contact with electric wiring.
3. Turn on the tool and allow the tool to reach full speed. **WARNING!** Allow the cutting bit to reach full speed before contacting the workpiece. Contact with the workpiece during startup can cause the tool to jump.
4. Hold tool with both hands and plunge bit into workpiece. **WARNING!** Always clamp material being cut and guide the tool with both hands.
5. Hold the depth guide flat against the workpiece and move tool through the cut. **WARNING!** Do not lay material on a hard surface when cutting. The bit will extend beyond the material.
6. When cutting a hole, plunge into center and cut to the edge. Complete the cut in a counterclockwise direction.
7. When the cut is complete, remove the cutting bit. Turn off the tool and allow bit to stop before laying tool down. **WARNING!** Ensure the tool comes to a complete stop before laying it down. A spinning cutting bit can grab a surface, causing injury or damage.

## MAINTENANCE

**⚠WARNING** To reduce the risk of injury, always unplug the charger and remove the battery pack from the charger or tool before performing any maintenance. Never disassemble the tool, battery pack or charger. Contact a MILWAUKEE service facility for ALL repairs.

### Maintaining Tool

Keep your tool, battery pack and charger in good repair by adopting a regular maintenance program. Inspect your tool for issues such as undue noise, misalignment or binding of moving parts, breakage of parts, or any other condition that may affect the tool operation. Return the tool, battery pack, and charger to a MILWAUKEE service facility for repair. After six months to one year, depending on use, return the tool, battery pack and charger to a MILWAUKEE service facility for inspection.

If the tool does not start or operate at full power with a fully charged battery pack, clean the contacts on the battery pack. If the tool still does not work properly, return the tool, charger and battery pack, to a MILWAUKEE service facility for repairs.

**⚠WARNING** To reduce the risk of personal injury and damage, never immerse your tool, battery pack or charger in liquid or allow a liquid to flow inside them.

### Cleaning

Clean dust and debris from vents. Keep handles clean, dry and free of oil or grease. Use only mild soap and a damp cloth to clean, since certain cleaning agents and solvents are harmful to plastics and other insulated parts. Some of these include gasoline, turpentine, lacquer thinner, paint thinner, chlorinated cleaning solvents, ammonia and household detergents containing ammonia. Never use flammable or combustible solvents around tools.

### Repairs

For repairs, return the tool, battery pack and charger to the nearest service center.