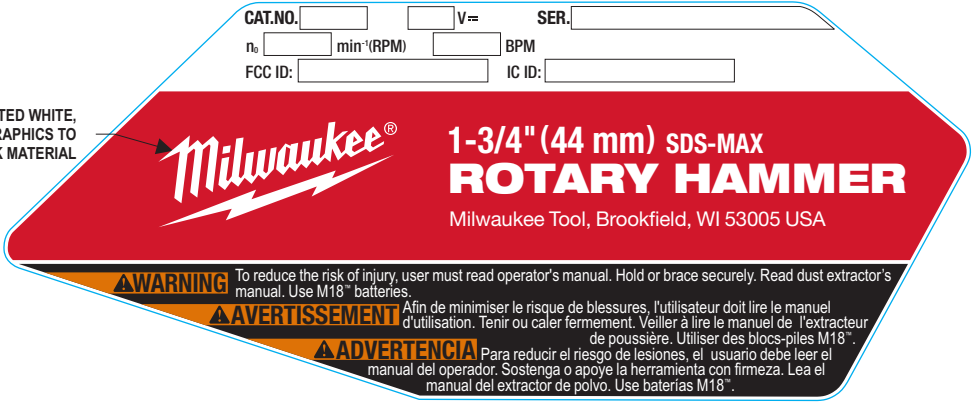
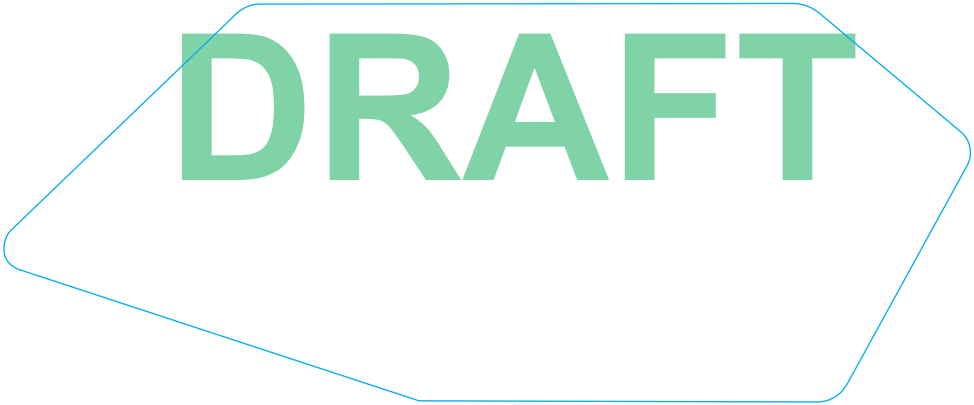


MILWAUKEE LOGO TO BE PRINTED WHITE,
ALL OTHER "WHITE" TEXT AND GRAPHICS TO
BE BASE STOCK MATERIAL



LABEL ARTWORK



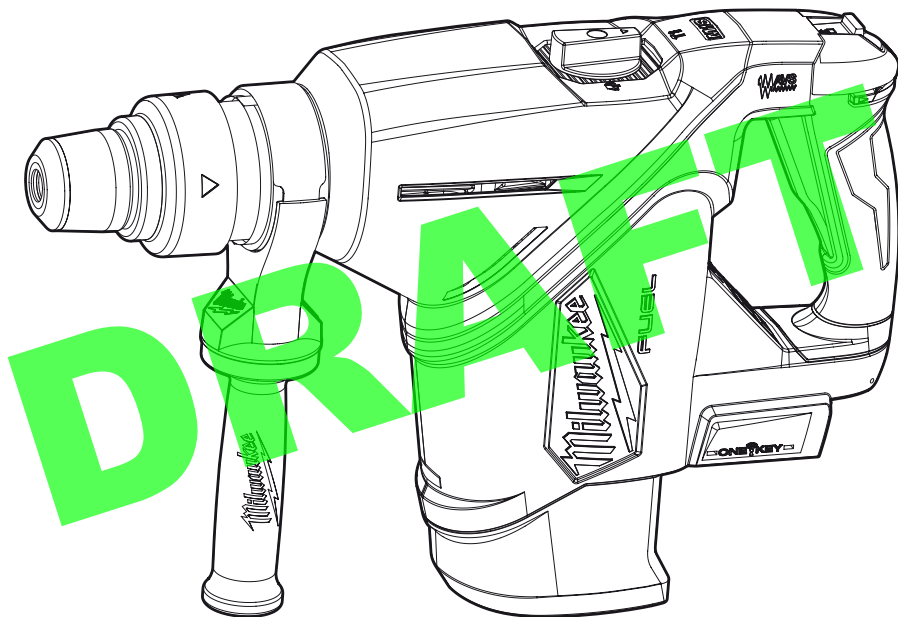
REFERENCE DIMENSIONS

NOTES:
PLACE NAMEPLATE IN BAG.
PRINT MILWAUKEE SERVICE NAMEPLATE PART NUMBER ON BAG USING INDELIBLE MARKER.

REVISION	EDITION	SCALE	DIE CUT DISPLAYED IN	TTI	DESCRIPTION	Milwaukee
01	A	100%	BLUE		SERVICE NAMEPLATE	MILWAUKEE TOOL 13135 WEST LISBON ROAD BROOKFIELD, WI 53005
MILWAUKEE PART #	12200227			COLOR	WHITE PANTONE 186C	DRN BY
TTI PART #	941052585			4C	BLACK PANTONE 152C	JSR
DATE	02/17/2025			SIZE	127.8x52.7 (±0.2mm)	APPROVED BY
TC ITEM ID	MM00531657			MATERIAL	CORE: 2 mil UL Matte Silver Foil	A.Kison ENGINEER
REVISION HISTORY					LAMINATION: Matte PP	S.Wang Xiao Lei DESIGNER
ECN #	ECN-MM013301				ADHESIVE: Permanent Removable Other	K.Goers MANAGER
ISSUE DATE	05/20/2025				2 MIL ACRYLIC BASED SYSTEM FOR USE ON POLYCARBONATE, NYLON, AND POLYPROPYLENE.	
				REMARKS	1. MUST BE A UL RECOGNIZED AND C.S.A. APPROVED MARKING AND LABELING SYSTEM SUITABLE FOR SURFACES AND ENVIRONMENTAL CONDITIONS. 2. THE LIGHT FASTNESS OF SPOT COLOR INK IS GRADE 6 OR ABOVE.	
				ALTERNATE ID HISTORY	12200227 941052585	



OPERATOR'S MANUAL
MANUEL de L'UTILISATEUR
MANUAL del OPERADOR



Cat. No. / No de Cat.

2918-20



M18 FUEL 1-3/4" SDS MAX ROTARY HAMMER W/ONE-KEY™
PERCEUSE À PERCUSSION DE 44 mm (1-3/4") SDS MAX AVEC
ONE-KEY™ M18 FUEL™
ROTOMARTILLO SDS MAX DE 44 mm (1-3/4") CON ONE-KEY™
M18 FUEL™



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



AVERTISSEMENT Afin de réduire le risque de blessures, l'utilisateur doit lire et bien comprendre le manuel.

ADVERTENCIA Para reducir el riesgo de lesiones, el usuario debe leer y entender el 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 ROTARY HAMMER

Safety instructions for all operations:

- **Wear ear protectors.** Exposure to noise can cause hearing loss.
- **Use auxiliary handle(s), if supplied with the tool.** Loss of control can cause personal injury.
- **Brace the tool properly before use.** This tool produces a high output torque and without properly bracing the tool during operation, loss of control may occur resulting in personal injury.
- **Hold the power tool by insulated gripping surfaces, when performing an operation where the accessory or fasteners may contact hidden wiring.** Cutting or fasteners accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.

Safety instructions when using long drill bits with rotary hammers:

- **Always start drilling at low speed and with the bit tip in contact with the workpiece.** At higher speeds, the bit is likely to bend if allowed to rotate freely without contacting the workpiece, resulting in personal injury.
- **Apply pressure only in direct line with the bit and do not apply excessive pressure.** Bits can bend, causing breakage or loss of control, resulting in personal injury.
- **Always brace or hold securely.**
- **Keep hands away from all cutting edges and moving parts.**
- **Cut embedded rebar only if this operation does not affect the integrity of the building.** If in doubt, consult a structural engineer. Tool operator fully responsible for adverse structural effects.

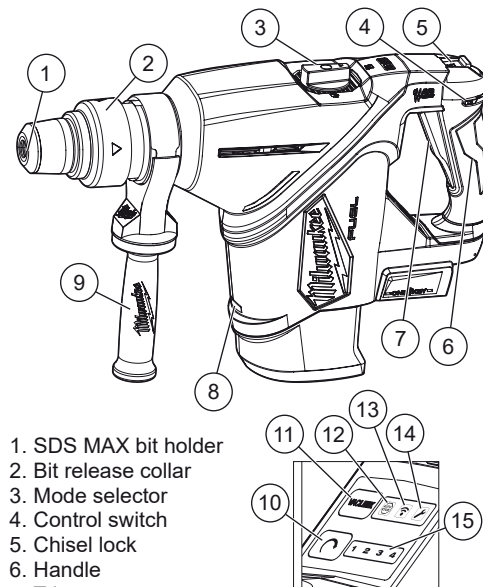
⚠WARNING To reduce the risk of injury when working in dusty situations, use an OSHA compliant dust extraction solution in accordance with its operating instructions or wear appropriate respiratory protection.

- **Do not use this tool to work on asbestos-containing products.** Determine the composition of the workpiece before beginning work. Asbestos should only be removed by a qualified professional.
- **Chemical Burn Hazard. Keep coin cell battery away from children.**
- **Always use common sense and be cautious when using tools.** It is not possible to anticipate every situation that could result in a dangerous outcome. Do not use this tool if you do not understand these operating instructions or you feel the work is beyond your capability; contact Milwaukee Tool or a trained professional for additional information or training.
- **Maintain labels and nameplates.** These carry important information. If unreadable or missing, contact a MILWAUKEE service facility for a replacement.

SPECIFICATIONS

Cat. No.	2918-20
Volts.	18 DC
Battery Type	M18™
Charger Type	M18™
No Load RPM	0 - 347
BPM	0 - 2625
FCC ID	P36-2918
IC ID	25187-2918
Type	SDS-MAX
Twist bit	1-3/4"
Core bit	6"
Tunnel bit	2-5/8"
Recommended Ambient Operating Temperature	0°F to 125°F

FUNCTIONAL DESCRIPTION



1. SDS MAX bit holder
2. Bit release collar
3. Mode selector
4. Control switch
5. Chisel lock
6. Handle
7. Trigger
8. Worklight LED
9. Side handle
10. Speed control button
11. VACLINK™ indicator LED
12. AUTOSTOP™ indicator LED

13. ONE-KEY™ indicator LED
14. Service indicator LED
15. Speed settings

SYMBOLGY



Volts



Direct Current

n_0 XXXX min⁻¹ No Load Revolutions per Minute (RPM)



Blows per Minute (BPM)



Anti-vibration System



Tool has AUTOSTOP™ technology



Tool has VACLINK™ technology



Rotary hammering mode



Hammering mode



Free rotation mode



Chisel lock



Read Operator's Manual



UL Listing for Canada and U.S.

ASSEMBLY

WARNING Always lock the trigger or remove the battery pack any time the tool is not in use.

Removing/Inserting the Battery

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

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

WARNING Recharge only with the charger specified for the battery. For specific charging instructions, read the operator's manual supplied with the charger and battery. Only use accessories specifically recommended for this tool. Others may be hazardous.

To reduce the risk of injury, always use a side handle when using this tool. Always brace or hold securely. Ensure side handle is secure before each use.

Adjusting the Side Handle Position

- WARNING!** Remove battery to avoid starting the tool.
- Loosen the side handle by unscrewing the side handle grip until the side handle rotates freely.
- Rotate the side handle to the desired position.
- Tighten the side handle grip securely.

WARNING To reduce the risk of injury, do not grasp the bit while the chuck is rotating or while the bit is falling from the chuck.

Installing and Removing Accessories

NOTE: Only use accessories with SDS MAX shanks. When selecting an accessory, use the right type for the job. For best performance, always use sharp bits.

NOTICE: Be sure that the shank of the accessory is clean. Dirt particles may cause the accessory to line up improperly. Do not use accessories larger than the maximum recommended capacity of the drill because gear damage or motor overloading may result. For best performance, be sure that the accessory is properly sharpened and the shank is lightly greased before use.

- WARNING!** Remove battery to avoid starting the tool.
- Pull bit holder release collar toward the rear of tool.
- Insert the accessory into the nose of the tool.
- Release the collar.
- Check that the accessory is locked properly; it should be possible to pull the accessory back and forth slightly (about 1/4").
- To **remove** accessories, pull accessory holder release collar toward the rear of tool and remove accessory.

WARNING Accessories may be HOT immediately after use. Do not touch the accessory with bare hands; it could burn skin.

For use with the Dust Extractor

For dust extractor assembly and operation, refer to the manufacturer's dust extractor manual.

VACLINK™

VACLINK™ is an integrated wireless dust control technology that allows a compatible tool and vacuum/dust extractor (vacuum) to connect to each other. A signal from the tool will turn the vacuum on and off. The tool can be connected to one vacuum at a time. **NOTE:** Other product's VACLINK™ functionality may differ. See those instructions for more information.

Pairing/Unpairing VACLINK™

- Install a battery pack on the tool and connect the vacuum to a power source.
- Press and hold the pairing buttons on the tool and vacuum each for >1 second.
VACLINK™ LED:
•Searching - Flashing green
•Paired - Solid green
- See troubleshooting if tool and vacuum do not pair successfully.
- To unpair, press and hold the pairing button on the tool for >1 second.
VACLINK™ LED:
•Unpaired - off

Using VACLINK™

- Once paired, set up the vacuum hose, work area, and job as needed, following the tool and vacuum instructions.
- Turn on the tool. VACLINK™ will automatically turn on the vacuum.
- Turn off the tool and the vacuum will automatically turn off within a few seconds.

Pausing VACLINK™

VACLINK™ can be paused to halt the connection. **NOTE:** When the tool's battery pack is removed and then reinstalled, the pause is cancelled and the VACLINK™ will be active.

To pause or unpair, quickly press and release the pairing button (<1 second).

VACLINK™ LED:

- Paused - Flashes red, then off
- Unpaused - Flashes green, then off

Troubleshooting

Pairing is unsuccessful	Remove battery from tool and power from vacuum for 1 minute. Retry the pairing procedure.
	Check the vacuum is in range of tool. Retry the pairing procedure.
	Move tool and vacuum to an area with lower wireless traffic. Retry the pairing procedure.
	If VACLINK™ is still unable to pair, contact authorized MILWAUKEE Service center.
Vacuum not turning on/off automatically	VACLINK™ is paused on the tool. Unpause VACLINK™.
	The vacuum is not connected to a power supply. Connect vacuum to a power supply.
	The tool and vacuum are out of range of each other. Move vacuum and tool closer.
	If VACLINK™ still does not turn the vacuum on/off, unpair and re-pair the tool and vacuum. If VACLINK™ still does not turn the vacuum on/off, contact authorized MILWAUKEE Service center.

ONE-KEY™

To learn more about the ONE-KEY™ functionality for this tool, go to milwaukeeetool.com/One-Key. To download the ONE-KEY™ app, visit the App Store® or Google Play™ from a smart device.

ONE-KEY™ Indicator

Solid Blue	Wireless mode is active and ready to be configured via the ONE-KEY™ app.
Blinking Blue	Tool is actively communicating with the ONE-KEY™ app.
Blinking Red	Tool is in security lockout and can be unlocked by the owner via the ONE-KEY™ app.

OPERATION

WARNING To reduce the risk of electric shock, check work area for hidden pipes and wires before drilling.

To reduce the risk of injury, keep hands away from the bit and all moving parts.

Always wear proper eye protection marked to comply with ANSI Z87.1.

When working in dusty situations, use an OSHA compliant dust extraction solution in accordance with its operating instructions or wear appropriate respiratory protection.

Always use the side handle when using this tool. Ensure side handle is secure before each use.

Always brace or hold securely.

Cut embedded rebar only if this operation does not affect the integrity of the building. If in doubt, consult a structural engineer. Tool operator fully responsible for adverse structural effects.

Selecting Mode

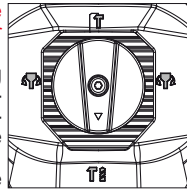
Select rotation only, rotary hammer, or hammer only. Allow the motor to come to a complete stop before changing the mode.

1. **Rotary Hammering:** turn the mode selector to the hammer and twist drill symbol.

2. To engage the hammering mechanism, maintain pressure on the bit. When pressure on the bit is released, the hammering action will stop.

3. Hammering: turn the mode selector to the hammer symbol. Use this setting for chiseling or setting self-drilling anchors. For use with "hammering-only" accessories.

4. Free Rotation: turn the mode selector to the free rotation symbol. Rotate the accessory to the desired angle. Then, turn the mode selector to Hammering.



Using the Control Switch

The control switch may be set to three positions: forward, reverse and lock. Due to a lockout mechanism, the control switch can only be adjusted when the ON/OFF switch is not pressed. Always allow the motor to come to a complete stop before using the control switch.

For **forward** (clockwise) rotation, push in the control switch from the right side of the tool. **Check the direction of rotation before use.**

For **reverse** (counterclockwise) rotation, push in the control switch from the left side of the tool. **Check direction of rotation before use.**

To **lock** the trigger, push the control switch to the center position. The trigger will not work while the control switch is in the center locked position. Always lock the trigger or remove the battery pack before performing maintenance, changing accessories, storing the tool and any time the tool is not in use.

Selecting Speed

Allow the tool to come to a complete stop before changing speeds. Push the selector button to cycle between the settings. Select "1" for the lowest speed. Select "4" for the highest speed.

Setting	1	2	3	4
RPM	0 - 173	0 - 242	0 - 295	0 - 347

Starting, Stopping and Controlling Speed
For operation when using the dust extractor, refer to your dust extractor manual.

1. To **start** the tool, grasp the handles firmly and pull the trigger.

NOTE: An LED is turned on when the trigger is pulled and will go off shortly after the trigger is released.

2. To **vary** the speed, increase or decrease the pressure on the trigger. The further the trigger is pulled, the greater the speed.

3. To **stop** the tool, release the trigger. Ensure the tool has come to a complete stop before laying the tool down.

Using the Chisel Lock

Use the chisel lock when chiseling or hammering without rotation for an extended period of time or when covering a large area. Chisel lock works in hammering mode only.

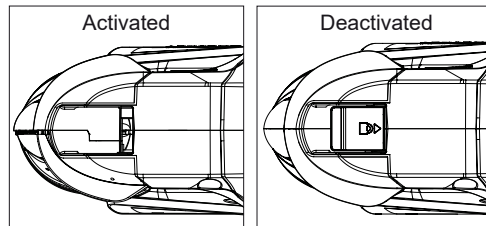
NOTE: The chisel lock prevents selecting action on mode selector when activated.

To **activate**:

1. Set the tool in hammering **T** mode.
2. Push chisel lock in.
3. Pull trigger to lock in on position.

To **deactivate**:

1. Pull chisel lock out to release trigger.



Cold Starting

If this tool is stored for a long period of time or at cold temperatures, it may not hammer initially because the lubrication has become stiff. To warm up the tool:

1. Insert and lock an accessory into the tool.
2. Pull the trigger and apply force to the bit or chisel against a scrap concrete or wood surface for a few seconds. Release the trigger.
3. Repeat until the tool starts hammering. The colder the tool is, the longer it will take to warm up.

AUTOSTOP™

AUTOSTOP™ detects a bind-up event during use and quickly reacts to shut down the tool, minimizing tool movement. If AUTOSTOP™ shuts down the tool, the indicator will light. Periodically test the AUTOSTOP™ function (see "Maintenance").

AUTOSTOP™ Control Sensitivity

Two methods are available to set the AUTOSTOP™ Control Sensitivity. Removing the battery pack will automatically set the sensitivity to normal.

NOTE: While the sensitivity may be adjusted, the AUTOSTOP™ function cannot be disabled on this tool.

1. Set the sensitivity via ONE-KEY by following the on-screen instructions.
2. Set the sensitivity on the tool by:
 - a. Remove accessories and their fasteners (such as nuts or flanges) from the tool.
 - b. Push the control switch to the center position.
 - c. Pull the trigger 5 times.

LOW - AUTOSTOP™ LED will blink 2 times

NORMAL - AUTOSTOP™ LED will blink 4 times

NOTE: If on-tool adjustment is not working, check the ONE-KEY app. On-Tool adjustments may be locked out.

Operating

1. Position the tool, grasp the handles firmly and pull the trigger.
2. Always hold the tool securely using both handles to maintain control.

NOTE: Applying greater pressure does not increase the tool's effectiveness. If the applied working pressure is too high, the shock absorber will be pushed together making the vibrations to the handle noticeably stronger.

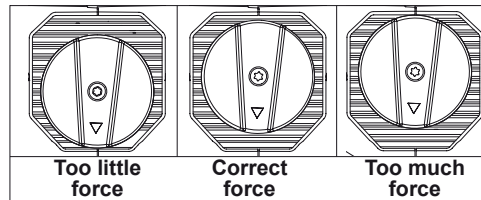
3. If the speed begins to drop off when drilling large or deep holes, pull the bit partially out of the hole while the tool is running to help clear dust. Do not use water to settle the dust since it will clog the bit flutes and tend to make the bit bind in the hole.

4. If the bit should bind, a built-in, non-adjustable slip clutch prevents the bit from turning. If this occurs, stop the tool, free the bit and begin again.
5. AUTOSTOP™ detects a bind-up event during use and quickly reacts to shut down the tool, minimizing tool movement. If AUTOSTOP™ shuts down the tool, the indicator will light. Periodically test the AUTOSTOP™ function (see "Maintenance").

Operator Force

The Anti-Vibration System provides the operator with comfort without sacrificing power or performance. Ideal operator force compresses the bellows slightly and allows the tool to work aggressively while the handle remains steady.

Excessive force compresses the bellows significantly and reduces vibration dampening. Users will be able to feel the difference and should adjust the force to the handle accordingly.



APPLICATIONS

WARNING To reduce the risk of electric shock, check work area for hidden pipes and wires before drilling.

To reduce the risk of injury, keep hands away from the bit and all moving parts.

Always wear proper eye protection marked to comply with ANSI Z87.1.

When working in dusty situations, use an OSHA compliant dust extraction solution in accordance with its operating instructions or wear appropriate respiratory protection.

Always use the side handle when using this tool. Ensure side handle is secure before each use.

Always brace or hold securely.

Cut embedded rebar only if this operation does not affect the integrity of the building. If in doubt, consult a structural engineer. Tool operator fully responsible for adverse structural effects.

Drilling

1. Before drilling, be sure the workpiece is clamped securely. Use backing material to prevent damage to the workpiece during breakthrough.
2. When starting a hole, place the drill bit on the work surface and apply firm pressure. Begin drilling at a slow speed, gradually increasing the speed.
3. Always apply pressure in line with the bit. Use enough pressure to keep the drill biting, but do not push hard enough to stall the motor.
4. Reduce pressure and ease the bit through the last part of the hole. While the tool is still running, pull the bit out of the hole to prevent jamming.

Using Rotary Percussion Core Bits

Core Bits are useful for drilling large or long holes in concrete. MILWAUKEE Heavy-Duty Core Bits have heat-treated steel bodies with durable carbide tips. These core bits are specially designed for fast, accurate drilling with combined hammering and rotary action.

1. Clean and lubricate the threads on the adapter and core bit to make later removal easier. Thread the adapter shank to the rear of the core bit.
2. Push the guide plate onto the pointed end of the center pin. Insert the center pin and guide plate assembly into the core bit. Be sure the small end of the center pin is securely placed into the hole in the center of the core bit. For LHS systems, screw the threaded end of the centering bit into the core bit.

NOTE: If using an extension, first thread the adapter shank to the extension. Then thread the core bit to the extension.

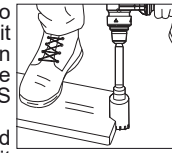
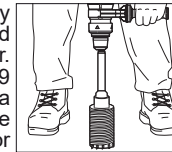
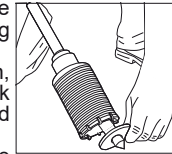
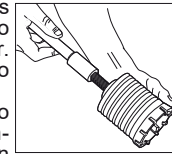
3. Insert the adapter into the nose of the tool as described in "Installing Bits and Chisels". Set the knob to the "hammering with rotation" setting.

4. Press the centering bit firmly against your center mark, hold the tool firmly and pull the trigger.

5. Start the tool. After drilling to about the depth of the core bit teeth, remove the center pin and guide plate from the core bit (not necessary for LHS system). Resume drilling.

6. To change the core bit, hold the tool upwards, pointing it away from your body, and run it briefly in forward to loosen the core bit from the adapter.

7. To make deeper holes, remove the core bit, break and remove the core, then resume drilling. When drilling long or deep holes, after each inch of penetration pull the bit partially out of the hole while the tool is running, to help clear dust from the bit flutes. Dust can clog the bit flutes and can make the bit bind in the hole. If this occurs, stop the tool, free the bit and begin again.



Using Large Diameter Core Bits

When drilling holes with large diameter core bits, dust may build up in the cut and can cause the tool to stall, bind, or cut slowly. By creating an opening for the dust to escape, drilling time, bit stress, and tool stress can be reduced.

1. Start the cut as normal.
2. Once the bit is firmly established in the cut (about 1/4" deep), remove the bit from the cut.
3. Remove the bit from the tool.
4. Install a standard fluted bit, approximately 7/8" in diameter, onto the tool.

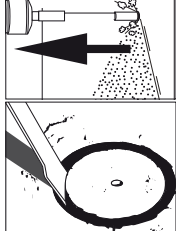
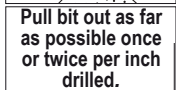
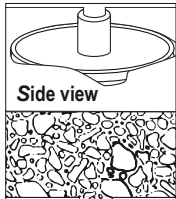
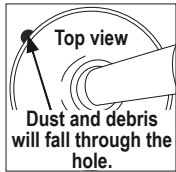
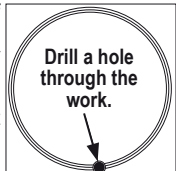
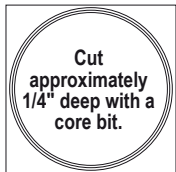
5. Drill a perpendicular hole through the kerf of the large hole.
 - Depending on the location of the work, the hole should either break through the other side of the hole/floor or extend 4"-5" past the end of the work-piece (such as into the dirt below a concrete slab).
 - If dust builds up in the hole, vacuum it out and continue drilling.
 - If drilling through a wall, the hole for dust should be drilled on the lowest part of the large hole kerf as the dust will fall there when drilling and can be evacuated more easily.

6. Reinstall the core bit and continue drilling. Dust and debris will fall through the hole and optimize the cutting ability of the bit.

NOTE: If unable to drill a hole in the kerf, pull back on the bit with the hammer running. This will remove some of the dust and debris from the cut and surrounding area.

7. For core bits, once the maximum core bit depth is drilled, the core must be broken and removed.

- Install a chisel bit.
- Place the chisel into the hole kerf.
- Chisel down into the kerf at several points until the core is loose or broken.
- Remove the core and vacuum/remove any remaining dust and debris.
- Install the core bit and continue the cut.



AWARNING To reduce the risk of personal injury and damage to the tool or work:

- Always use the "hammering-only" setting to set the anchor. Never use the "hammering-with-rotation" setting to set the anchor.
- Never switch the tool to "hammering-with-rotation" until after the anchor has been set and the tooth anchor chuck has been removed from the anchor.

Setting Self-Drilling Anchors

MILWAUKEE Tooth Anchor Chucks require a "B" taper adapter.

1. Place the proper size tooth anchor chuck into the "B" taper adapter. Then insert the "B" taper adapter into the tool and lock it into place as described. See "Installing Bits and Chisels".

2. Insert the anchor into the tooth anchor chuck. Set the knob for hammering only. Set the anchor on your mark and hammer until the teeth have penetrated the concrete.

3. Set the knob for hammering with rotation and drill until the chuck is 1/8" above the concrete.

NOTE: It may be necessary to clean dust and cuttings from the anchor several times while drilling the hole.

4. Remove the anchor from the hole while the tool is running. Clean the dust and cuttings from the anchor by pointing it downward and turning the tool on and off several times. Clean the dust out of the hole with a vacuum cleaner or blowout bulb.

5. Place the expansion plug into the anchor and insert the anchor into the hole. Switch the knob back to hammering only, and hammer the anchor firmly into the hole.

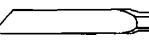
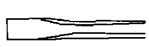
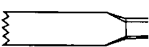
6. Snap the head off of the anchor. To remove the head of anchors up to 5/8", grasp the handles firmly and pull the tool sharply towards you or snap off the anchor head with a hand hammer as shown. The anchor is now ready to receive a bolt.

7. To remove the anchor head wedged in the tooth anchor chuck, use drift pin Cat. No. 48-86-0100.
8. To remove the tooth anchor chuck, remove the "B" taper adapter from the nose of the tool. Insert the drift pin supplied with the adapter into the hole on the side of the "B" taper adapter and strike it sharply to force out the tooth anchor chuck.

Chiseling and Chipping

MILWAUKEE Rotary Hammers may be used for chipping and chiseling.

When chiseling, hold the tool at an angle to the workpiece. Work from a corner or close to the edge of the workpiece, breaking off one small area at a time rather than attempting too large an area. A variety of accessories are available.

	Bushing Tools Used to surface concrete.
	Mortar Cutting Chisels (Seam Tools) For removing old mortar for tuck pointing or caulking.
	Bull Points For demolition work and starting holes in concrete slabs.
	Flat Chisels For edging, chipping or channeling.
	Scaling Chisels For removing weld spatter or scale and cutting straight lines.
	Slotting Chisel For slotting and cutting between drilled holes in concrete and masonry.

MAINTENANCE

AWARNING 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 battery pack, charger, or tool, except as provided in these instructions. Contact a MILWAUKEE service facility for ALL repairs.

Maintaining Tool

Keep this tool, battery pack and charger in good repair by adopting a regular maintenance program. Inspect the 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. Depending on use, periodically have an authorized service facility inspect and maintain the tool, battery, and charger to ensure proper performance.

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.

Testing AUTOSTOP™

1. Remove accessories from the tool.
2. Stand away from objects and people.
3. Firmly grasp the tool's handles.
4. Hold tool away from the body.
5. Start the tool.
6. Quickly rotate the tool about 90° in any direction.
7. If AUTOSTOP™ is working, the tool will shut off and the AUTOSTOP™ indicator LED will flash.
8. If AUTOSTOP™ is not working, the tool will continue to run. Repeat the test. If the tool will not automatically shut off, return the tool to the nearest authorized service center.

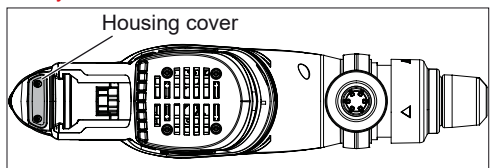
Internal Coin Cell Battery

AWARNING Chemical Burn Hazard. This device contains a lithium button/coin cell battery. A new or used battery can cause severe internal burns and lead to death in as little as 2 hours if swallowed or enters the body. Always secure the battery cover. If it does not close securely, stop using the device, remove the batteries, and keep it away from children. If you think batteries may have been swallowed or entered the body, seek immediate medical attention.

An internal coin cell battery is used to facilitate full ONE-KEY™ functionality.

To replace the coin cell battery:

1. **WARNING!** Remove battery to avoid starting the tool.
2. Remove the screw(s) and open the coin cell battery cover.



3. Remove the old coin cell battery, keep it away from children, and dispose of it properly.
4. Insert the new coin cell battery (3V CR2032), with the positive side facing up.
5. Close the battery cover and tighten the screw(s) securely.

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

Cleaning

Clean dust and debris from any vents. Keep tool 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 authorized service center.

ACCESSORIES

AWARNING Use only recommended accessories. Others may be hazardous.

For a complete listing of accessories, go online to www.milwaukeeetool.com or contact a distributor.

WIRELESS COMMUNICATION

For products provided with wireless communication features, including ONE-KEY™:

Pursuant to part 15.21 of the FCC Rules, do not modify this product. Modification could void your authority to operate the product. This device complies with part 15 of the FCC Rules and ISSED-Canada's license exempt RSS standards. Operation is subject to the following two conditions: 1) This device may not cause harmful interference, and 2) This device must accept any interference received, including interference that may cause undesired operation.

SERVICE - UNITED STATES

1-800-SAWDUST (1.800.729.3878)

Monday-Friday, 7:00 AM - 6:30 PM CST

or visit www.milwaukeeetool.com

Contact Corporate After Sales Service Technical Support with technical, service/repair, or warranty questions.

Email: metproductsupport@milwaukeeetool.com

Become a Heavy Duty Club Member at www.milwaukeeetool.com to receive important notifications regarding your tool purchases.

SERVICE - CANADA

Milwaukee Tool (Canada) Ltd

1.877.948.2360

Monday-Friday, 7:00 AM - 4:30 PM CST

or visit www.milwaukeeetool.ca

LIMITED WARRANTY

USA & CANADA

This MILWAUKEE power tool* is warranted to the original purchaser from an authorized MILWAUKEE distributor only to be free from defects in material and workmanship. Subject to certain exceptions, MILWAUKEE will repair or replace any part on this power tool which, after examination, is determined by MILWAUKEE to be defective in material or workmanship for a period of five (5) years after the date of purchase unless otherwise noted. Return of the power tool to a MILWAUKEE factory Service Center location or MILWAUKEE Authorized Service Station, freight prepaid and insured, is required. A copy of the proof of purchase should be included with the return product. This warranty does not apply to damage that MILWAUKEE determines to be from repairs made or attempted by anyone other than MILWAUKEE authorized personnel, misuse, alterations, abuse, normal wear and tear, lack of maintenance, or accidents. Normal Wear: Many power tools need periodic parts replacement and service to achieve best performance. This warranty does not cover repair when normal use has exhausted the life of a part including, but not limited to, carriage gears, chucks, brushes, cords, saw shoes, blade clamps, o-rings, seals, bumpers, driver blades, pistons, strikers, lifters, and bumper cover washers.

*This warranty does not cover battery packs or all power tools. Refer to the separate and distinct warranties available for those products. The warranty period for the LED in the LED Work Light (49-24-0171) and the LED Upgrade Bulb (49-81-0090) is the lifetime of the product subject to the limitations above. If during normal use the LED or LED Upgrade Bulb fails, the part will be replaced free of charge.

Warranty Registration is not necessary to obtain the applicable warranty on a MILWAUKEE power tool product. The manufacturing date of the product will be used to determine the warranty period if no proof of purchase is provided at the time warranty service is requested.

ACCEPTANCE OF THE EXCLUSIVE REPAIR AND REPLACEMENT REMEDIES DESCRIBED HEREIN IS A CONDITION OF THE CONTRACT FOR THE PURCHASE OF EVERY MILWAUKEE PRODUCT. IF YOU DO NOT AGREE TO THIS CONDITION, YOU SHOULD NOT PURCHASE THE PRODUCT. IN NO EVENT SHALL MILWAUKEE BE LIABLE FOR ANY INCIDENTAL, SPECIAL, CONSEQUENTIAL, OR PUNITIVE DAMAGES, OR FOR ANY COSTS, ATTORNEY FEES, EXPENSES, LOSSES OR DELAYS ALLEGED TO BE AS A CONSEQUENCE OF ANY DAMAGE TO FAILURE OF, OR DEFECT IN ANY PRODUCT INCLUDING, BUT NOT LIMITED TO, ANY CLAIMS FOR LOSS OF PROFITS. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU. THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS WARRANTIES, WRITTEN OR ORAL, TO THE EXTENT PERMITTED BY LAW. MILWAUKEE DISCLAIMS ANY IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. TO THE EXTENT SUCH DISCLAIMER IS NOT PERMITTED BY LAW, SUCH IMPLIED WARRANTIES ARE LIMITED TO THE DURATION OF THE APPLICABLE EXPRESS WARRANTY AS DESCRIBED ABOVE. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

This warranty applies to product sold in the U.S.A. and Canada only. Please consult the "Service Center" Search in the Parts & Service section of MILWAUKEE's website www.milwaukeeetool.com or call 1.800.SAWDUST (1.800.729.3878) to locate your nearest service facility for warranty and non-warranty service on a MILWAUKEE power tool.

RÈGLES DE SÉCURITÉ GÉNÉRALES RELATIVES AUX OUTILS ÉLECTRIQUES

⚠ AVERTISSEMENT Lire toutes les consignes de sécurité, consignes, illustrations et spécifications fournies avec cet outil électrique. Ne pas suivre l'ensemble des règles et instructions peut entraîner une électrocution, un incendie ou des blessures graves. Conserver les règles et les instructions à des fins de référence ultérieure. Le terme « outil électrique » figurant dans les avertissements ci-dessous renvoie à l'outil électrique à alimentation par le réseau (à cordon) ou par batterie (sans fil).

SÉCURITÉ DU LIEU DE TRAVAIL

- Veillez à ce que l'aire de travail soit propre et bien éclairée. Le désordre et le manque de lumière favorisent les accidents.
- Ne pas utiliser d'outils électriques dans des atmosphères explosives, par exemple en présence de liquides, gaz ou poussières inflammables. Les outils électriques produisent des étincelles risquant d'enflammer les poussières ou vapeurs.
- S'assurer que les enfants et les curieux se trouvent à une bonne distance au moment d'utiliser un outil électrique. Les distractions peuvent causer une perte de contrôle.

SÉCURITÉ ÉLECTRIQUE

- Les fiches des outils électriques doivent correspondre à la prise secteur utilisée. Ne jamais modifier la fiche, de quelque façon que ce soit. Ne jamais utiliser d'adaptateurs de fiche avec des outils mis à la terre. Les fiches et prises non modifiées réduisent le risque de choc électrique.
- Éviter tout contact avec des surfaces mises à la terre comme des tuyaux, des radiateurs, des cuisinières et des réfrigérateurs. Le risque de choc électrique est accru lorsque le corps est mis à la terre.
- Ne pas exposer les outils électriques à l'eau ou l'humidité. La pénétration d'eau dans ces outils accroît le risque de choc électrique.
- Ne pas maltraiter le cordon d'alimentation. Ne jamais utiliser le cordon d'alimentation pour transporter l'outil électrique et ne jamais débrancher ce dernier en tirant sur le cordon. Garder le cordon à l'écart de la chaleur, de l'huile, des objets tranchants et des pièces en mouvement. Un cordon endommagé ou emmêlé accroît le risque de choc électrique.
- Pour les travaux à l'extérieur, utiliser un cordon spécialement conçu à cet effet. Utiliser un cordon conçu pour l'usage extérieur réduit les risques de choc électrique.
- Si l'utilisation d'un outil électrique est inévitable dans un endroit humide, utiliser une source d'alimentation munie d'un disjoncteur de fuite de terre. L'utilisation d'un disjoncteur de fuite de terre réduit le risque de choc électrique.

SÉCURITÉ INDIVIDUELLE

- Rester attentif, prêter attention au travail et faire preuve de bon sens lors de l'utilisation de tout outil électrique. Ne pas utiliser cet appareil en cas de fatigue ou sous l'influence de l'alcool, de drogues ou de médicaments. Un moment d'inattention pendant l'utilisation d'un outil électrique peut entraîner des blessures graves.

- Porter l'équipement de protection individuel requis. Toujours porter une protection oculaire. Selon les conditions, porter aussi un masque antipoussières, des bottes de sécurité antidérapantes, un casque protecteur ou une protection auditive afin de réduire les blessures.
- Empêcher les démarrages accidentels. S'assurer que la gâchette est en position d'arrêt avant de brancher l'outil à une source de courant, d'insérer la batterie, de le ramasser ou de le transporter. Le fait de transporter un outil électrique en gardant le doigt sur la gâchette ou de mettre sous tension un outil électrique lorsque la gâchette est en position de marche favorise les accidents.
- Retirer les clés de réglage avant de mettre l'outil en marche. Une clé laissée sur une pièce rotative de l'outil peut causer des blessures.
- Ne pas travailler hors de portée. Toujours se tenir bien campé et en équilibre. Une bonne stabilité procure un meilleur contrôle de l'outil électrique en cas d'imprévu.
- Porter une tenue appropriée. Ne porter ni vêtements amples, ni bijoux. Garder les cheveux et les vêtements à l'écart des pièces en mouvement. Les vêtements flottants, les bijoux ou les cheveux longs risquent d'être happés par les pièces en mouvement.
- Si les outils sont équipés de dispositifs de dépoussiérage, s'assurer qu'ils sont connectés et correctement utilisés. L'utilisation d'un collecteur de poussière permet de réduire les dangers liés à la poussière.
- Ne pas laisser la familiarité avec l'outil acquise par une utilisation fréquente vous rendre suffisant et vous amener à ignorer les règles de sécurité. Une utilisation négligée peut causer une blessure grave en une fraction de seconde.

UTILISATION ET ENTRETIEN DE L'OUTIL ÉLECTRIQUE

- Ne pas forcer l'outil électrique. Utiliser l'outil électrique approprié pour l'application. Un outil électrique approprié exécutera le travail mieux et de façon moins dangereuse s'il est utilisé dans les limites prévues.
- Ne pas utiliser l'outil électrique si le commutateur ne permet pas de le mettre en marche ou de l'arrêter. Tout outil électrique qui ne peut pas être contrôlé par son commutateur est dangereux et doit être réparé.
- Débrancher l'outil et/ou retirer le bloc-piles, si possible, avant d'effectuer des réglages, de changer d'accessoire ou de remiser l'outil. Ces mesures de sécurité préventives réduisent les risques de démarrage accidentel de l'outil.
- Entreposer l'outil électrique hors de la portée des enfants et interdire à quiconque de l'utiliser si la personne ne connaît pas bien le produit ou les instructions. Les outils électriques sont dangereux dans les mains d'utilisateurs novices.
- Entretenir les outils électriques et les accessoires. Vérifier qu'aucune pièce mobile n'est mal alignée ou bloquée, qu'aucune pièce n'est brisée et s'assurer qu'aucun autre problème risque d'affecter le bon fonctionnement de l'outil. En cas de dommages, faire réparer l'outil avant de l'utiliser. Plusieurs accidents sont causés par des produits mal entretenus.
- Garder les outils bien affûtés et propres. Des outils correctement entretenus et dont les tranchants sont bien affûtés risquent moins de se bloquer et sont plus faciles à contrôler.
- Utiliser l'outil électrique, les accessoires, les embouts etc. conformément à ces instructions en tenant compte des conditions de travail et de la tâche à effectuer. L'usage d'un outil électrique pour des applications pour lesquelles il n'est pas conçu peut être dangereux.

- Garder les poignées et les surfaces de préhension sèches, propres et exemptes d'huile ou de graisse. Des poignées et des surfaces de préhension glissantes ne permettent pas de manipuler et de contrôler l'outil en toute sécurité en cas de situation imprévue.

UTILISATION ET ENTRETIEN DE LA BATTERIE

- Pour recharger le bloc-piles, utiliser seulement le chargeur spécifié par le fabricant. Un chargeur pouvant convenir à un type de bloc-piles peut entraîner un risque d'incendie lorsqu'il est utilisé avec un autre type de bloc-piles.
- N'utiliser l'outil électrique qu'avec une batterie recommandée. L'utilisation de tout autre bloc-piles peut créer un risque de blessures et d'incendie.
- Lorsque le bloc-piles n'est pas utilisé, le tenir éloigné des objets en métal tels que les trombones, les pièces de monnaie, les clés, les clous, les vis ou d'autres petits objets métalliques qui pourraient connecter les bornes. Le court-circuitage des bornes d'une pile peut entraîner des brûlures ou un incendie.
- Éviter tout contact avec le liquide pouvant être éjecté de la pile en cas de manutention abusive. En cas de contact accidentel, rincer immédiatement les parties atteintes avec de l'eau. Si le liquide entre en contact avec les yeux, consulter un médecin. Le liquide éjecté des piles peut causer des irritations ou des brûlures.
- N'utiliser aucun bloc-piles ni aucun outil ayant été endommagé ou modifié. Des piles endommagées ou modifiées peuvent adopter un comportement imprévisible pouvant causer un incendie, une explosion ou le risque de blessures.
- Ne pas exposer le bloc-piles ou l'outil aux flammes ou à une température excessive. Une exposition aux flammes ou à une température supérieure à 130°C (265°F) peut causer une explosion.
- Suivre toutes les instructions de charge et ne pas charger le bloc-piles ou l'outil en dehors de la plage de température spécifiée. Une charge incorrecte ou à des températures en dehors de la plage spécifiée peut endommager la pile et augmenter le risque d'incendie.

ENTRETIEN

- Les réparations de l'outil électrique doivent être confiées à un technicien qualifié, utilisant exclusivement des pièces identiques à celles d'origine. Le maintien de la sûreté de l'outil électrique sera ainsi assuré.
- Ne jamais effectuer la réparation d'un bloc-piles endommagé. La réparation du bloc-piles doit être réalisée par le fabricant ou les fournisseurs de service agréés uniquement.

RÈGLES DE SÉCURITÉ SPÉCIFIQUES POUR PERCEUSES À PERCUSSION

- Consignes de sécurité pour toutes les opérations :
- Porter des protecteurs d'oreille. L'exposition au bruit peut entraîner une perte auditive.
 - Utiliser les poignées auxiliaires si elles sont fournies avec l'outil. La perte de contrôle peut causer des blessures corporelles.
 - Bien tenir l'outil avant de l'utiliser. Cet outil produit un couple élevé et, s'il n'est pas bien tenu durant son utilisation, une perte de contrôle pourra survenir, ce qui causera des blessures corporelles.
 - Tenir l'outil électrique par les surfaces de prise isolées lorsqu'une opération est effectuée ou l'accessoire ou les fixations pourront entrer en contact avec du câblage caché. Le contact entre l'accessoire de coupe ou les fixations et un fil sous

tension pourra « électrifier » les pièces métalliques exposées dans l'outil, ce qui résultera en une décharge électrique à subir par l'utilisateur.

Consignes de sécurité lors de l'utilisation des forets longs avec des perceuses à percussion :

- Toujours commencer à percer à une faible vitesse, en tenant la pointe du foret toujours en contact avec la pièce. À des vitesses plus hautes, il est possible que le foret se torde s'il est laissé tourner librement sans faire aucun contact avec la pièce à travailler, en causant des blessures corporelles.
- Exercer de la pression uniquement en ligne droite sur le foret et ne pas exercer une pression excessive. Les forets peuvent se tordre, en provoquant une rupture ou la perte de contrôle, ce qui pourra ainsi causer des blessures corporelles.
- Toujours tenir ou soutenir fermement.
- Garder les mains à l'écart des rebords tranchants et des pièces en mouvement.
- Couper des barres d'armature intégrées sauf si l'opération ne porte pas atteinte à l'intégrité du bâtiment. En cas de doute, contacter un ingénieur en structures. L'utilisateur de l'outil assume la pleine responsabilité pour les effets structurels nuisibles.
- **⚠ AVERTISSEMENT** Pour minimiser le risque de blessures lorsque des travaux sont faits dans des situations poussiéreuses, utiliser une solution de dépoussiérage conforme aux normes de l'OSHA d'après ses instructions d'utilisation, ou bien porter une protection respiratoire appropriée.
- Ne pas utiliser cet outil pour travailler sur des produits ayant de l'amiante. Repérer la composition de la pièce à travailler avant de commencer le travail. L'amiante ne doit être retiré que par un professionnel qualifié.
- Toujours faire preuve de bon sens et procéder avec prudence lors de l'utilisation d'outils. C'est impossible de prévoir toutes les situations dont le résultat est dangereux. Ne pas utiliser cet outil si vous ne comprenez pas ces instructions d'opération ou si vous pensez que le travail dépasse votre capacité ; veuillez contacter Milwaukee Tool ou un professionnel formé pour recevoir plus d'information ou formation.
- Maintenir en l'état les étiquettes et les plaques d'identification. Des informations importantes y figurent. Si elles sont illisibles ou manquantes, contacter un centre de services et d'entretien MILWAUKEE pour un remplacement gratuit.

⚠ AVERTISSEMENT Certaines poussières générées par les activités de ponçage, de coupe, de rectification, de perçage et d'autres activités de construction contiennent des substances considérées être la cause de malformations congénitales et de troubles de l'appareil reproducteur. Parmi ces substances figurent :

- le plomb contenu dans les peintures à base de plomb ;
- la silice cristalline des briques, du ciment et d'autres matériaux de maçonnerie, ainsi que
- l'arsenic et le chrome des sciages traités chimiquement. Les risques encourus par l'opérateur envers ces expositions varient en fonction de la fréquence de ce type de travail. Pour réduire l'exposition à ces substances chimiques, l'opérateur doit travailler dans une zone bien ventilée et porter l'équipement de sécurité approprié, tel qu'un masque anti-poussière spécialement conçu pour filtrer les particules microscopiques.