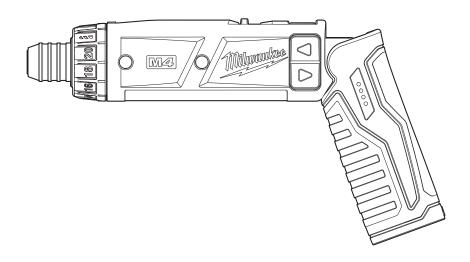


OPERATOR'S MANUAL

Cat. No.

2101-20



M4™ CORDLESS SCREWDRIVER

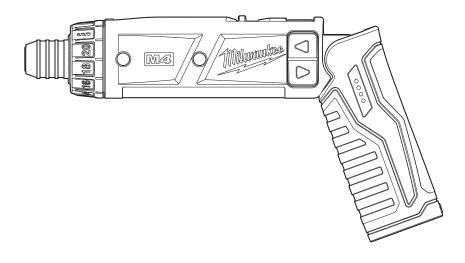
TO REDUCE THE RISK OF INJURY, USER MUST READ AND UNDERSTAND OPERATOR'S MANUAL.



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M4™ CORDLESS SCREWDRIVER

TO REDUCE THE RISK OF INJURY, USER MUST READ AND UNDERSTAND OPERATOR'S MANUAL.

GENERAL POWER TOOL SAFETY WARNINGS

WARNING READ ALL SAFETY WARNINGS AND ALL INSTRUCTIONS.

Failure to follow the warnings and instructions 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 residual current device (RCD) protected supply. Use of an RCD 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.
- •Usé personal protective equipment. Always wear eye protection. Protective equipment such as 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 energising 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 jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery 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.

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 the battery pack 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. 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.

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.

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.

SPECIFIC SAFETY RULES

- •Hold power tool by insulated gripping surfaces, when performing an operation where the fastener may contact hidden wiring. Fasteners contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.
- Keep hands away from all cutting edges and moving parts.
- 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.

SYMBOLOGY			
	Direct Current		
V	Volts		
n ₀ <u>xxxx</u> min. ⁻¹	No Load Revolutions per Minute (RPM)		
c ŲL us	Underwriters Laboratories, Inc. United States and Canada		

1. Bit holder collar 2. Clutch adjusting ring 3. Speed selector 4. Lock switch 5. Fuel Gauge

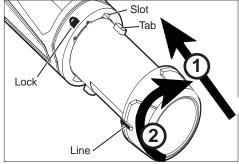
SPECIFICATIONS					
Cat. No.	Volts DC	No Load RPM			
2101-20	4	Low 200			
		High 600			

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.

Inserting the Battery into the Tool

6. Forward/reverse switch



Line up the tabs on the battery with the slots in the tool opening. Slide the battery all the way into the tool. Turn the battery clockwise to lock it in place. The line on the battery will line up with the on the tool. The tool will not run if the battery is not properly locked into the tool.

Removing the Battery from the Tool

Turn the battery cap counterclockwise to unlock. Pull the battery out of the tool.

Checking the Fuel Gauge

To determine the amount of charge left in the battery, press the forward/reverse switch. The Fuel Gauge will light up for 2-3 seconds.

OPERATION

WARNING Always remove battery pack before changing or removing accessories. Only use accessories specifically recommended for this tool. Others may be hazardous.

WARNING To reduce the risk of injury, wear safety goggles or glasses with side-shields

Installing Bits

Always remove the battery before inserting or removing bits. Select the proper style and size bit for the type of screw you are using.

- To install the bit, pull out the collar. Press the bit into the socket until the collar snaps back and the bit is locked into place.
- To remove the bit, pull out the collar, then pull out the bit.

NOTE: It is **not** necessary to hold the collar out when installing and removing bits.

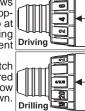
Adjusting the Handle

The handle is designed for convenience and control. The durable, center pivot allows the handle to be used in the conventional shape or folded into a pistol grip. Access to the forward/reverse switch and lock switch is comfortable in either handle position.

Using the Adjustable Clutch

This tool has an adjustable clutch for driving different types of screws into different materials. When properly adjusted, the clutch will slip at a preset torque to prevent driving the screw too deep and to prevent damage to the screw or tool.

To adjust the clutch, turn the clutch adjusting ring so that the desired setting (1-21) lines up with the arrow on the motor housing, as shown.



The torque specifications shown here are approximate values obtained with a fully charged battery pack.

Clutch	(in lbs)		Applications
Setting	Lo	Hi	Applications
1	3.7	3.7	Small screws in softwood.
4	6.5	6.5	Medium screws in soft- wood or small screws in
7	9.3	9.3	hardwood.
10	12.8	11.2	Large screws in soft-
13	16.4	N/A	woods. Medium screws in
16	20.0	N/A	hardwood or large screws in hardwood with pilot
19	23.4	N/A	hole.

* When set to high speed, set the clutch at 10 or below. The Automatic Shut-Off may not work at higher clutch settings (see "Automatic Shut-Off").

NOTE: Because the settings shown in the table are only a guide, use a piece of scrap material to test the different clutch settings before driving screws into the workpiece.

Using the Lock Switch

When the battery is installed, the tool is in operating condition. The lock switch prevents accidental starting by locking the forward/reverse switch. Always set the lock switch to "lock" before performing maintenance. changing accessories.

storing the tool and any time the tool is not in use.

- To lock, push the lock switch to display the lock symbol.
- To unlock, push the lock switch to display the unlock p symbol.

Selecting High or Low Speed

- For low speed and more torque, push the speed selector back ("1" is displayed).
- For high speed and less torque, push the speed selector forward ("2" is displayed).



Unlock

Selecting Forward or Reverse

Press and hold the top of the switch ◀ for forward rotation, and the bottom of the switch ▶ for reverse rotation. The switch will automatically return to the center OFF position when it is released.

Automatic Shut-Off

To prevent extra driving force after the selected torque has been reached, the tool will automatically shut off if the clutch slips. At higher clutch settings, this feature may not immediately engage. Release the switch to reset the automatic shut-off.

Cold Weather Operation

MILWAUKEE Lithium-Ion battery packs are designed to operate in temperatures below freezing. When the battery pack is too cold, it may need to warm up before normal use. Put the battery on a tool and use the tool in a light application. It may "buzz" for a short time until it warms up. When the buzzing stops, use the tool normally.

APPLICATIONS

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

This tool provides a quick, convenient means of drilling small holes and installing and removing screws. Because of the many screw sizes, types, thread engagements and materials available, it is difficult to limit the application of this tool by screw size. However, for applications in wood, a #6 wood screw with a full pilot hole is recommended as a practical limit.

Drilling in Wood, Composition Materials and Plastic

Always use sharp bits. When using twist drill bits, pull the bit out of the hole frequently to clear chips from the bit flutes. To reduce the chance of splintering, back work with a piece of scrap wood. Select low speeds for plastics with a low melting point.

Driving Screws

Drill a pilot hole when driving screws into thick or hard materials. Set the clutch adjusting ring to the proper position and set the speed to low. Use the proper style and size screwdriver bit for the type of screw you are using.

With the screwdriver bit in the screw, place the tip of the screw on the workpiece and apply firm pressure before pressing the foward/reverse switch up. Screws can be removed by pressing the foward/reverse switch down.

Locking the Screwdriver Bit

When the forward/reverse switch is off, the screwdriver bit automatically locks in place allowing you to use the screwdriver manually. Do this to tighten screws that require more torque than the driver is capable of delivering, when confirming the tightness of a screw or when loosening an extremely tight screw.

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. After six months to one year, depending on use, return the tool, battery pack and charger to A MILWAUKEE service facility for:

- Lubrication
- Mechanical inspection and cleaning (gears, spindles, bearings, housing, etc.)
- Electrical inspection (battery pack, charger, motor)
- Testing to assure proper mechanical and electrical operation

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 charger and tool vents. Keep tool handles clean, dry and free of oil or grease. Use only mild soap and a damp cloth to clean the tool, battery pack and charger 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.

ACCESSORIES

WARNING Always remove battery pack before changing or removing accessories. Only use accessories specifically recommended for this tool. Others may be hazardous.