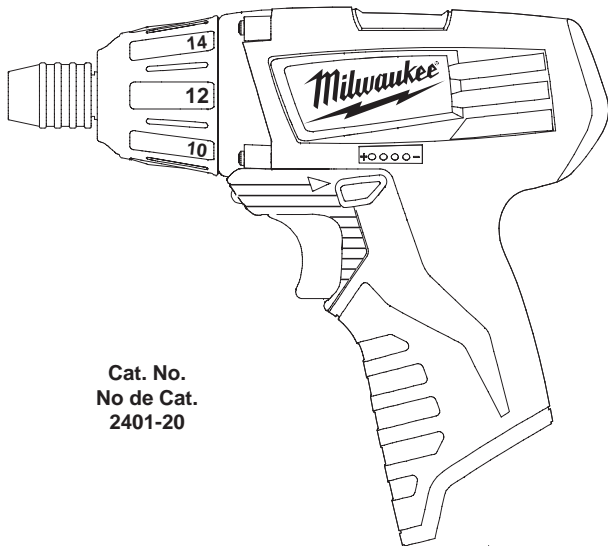




**OPERATOR'S MANUAL  
MANUEL de L'UTILISATEUR  
MANUAL del OPERADOR**



**Cat. No.  
No de Cat.  
2401-20**

**HEAVY-DUTY 12 V COMPACT DRIVER  
TOURNEVIS COMPACT ROBUSTE DE 12 V  
DESTORNILLADOR COMPACTO DE 12 V PARA SERVICIO PESADO**

***TO REDUCE THE RISK OF INJURY, USER MUST READ OPERATOR'S MANUAL.  
AFIN DE RÉDUIRE LE RISQUE DE BLESSURES, L'UTILISATEUR DOIT LIRE LE  
MANUEL DE L'UTILISATEUR.  
PARA REDUCIR EL RIESGO DE LESIONES, EL USUARIO DEBE LEER EL MANUAL  
DEL OPERADOR.***

## GENERAL SAFETY RULES-FOR ALL BATTERY OPERATED TOOLS



### WARNING

#### READ ALL INSTRUCTIONS

Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury. The term "power tool" in all of the warnings listed below refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

#### SAVE THESE INSTRUCTIONS

### WORK AREA SAFETY

1. **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
2. **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.
3. **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

### ELECTRICAL SAFETY

4. **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.
5. **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.
6. **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
7. **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.
8. **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.

### PERSONAL SAFETY

9. **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.
10. **Use safety equipment. Always wear eye protection.** Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
11. **Avoid accidental starting. Ensure the switch is in the off-position before plugging in.** Carrying tools with your finger on the switch or plugging in power tools that have the switch on invites accidents.
12. **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.
13. **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
14. **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.
15. **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of these devices can reduce dust-related hazards.

## POWER TOOL USE AND CARE

16. **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.
17. **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.
18. **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 tool accidentally.
19. **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tools or these instructions to operate power tools.** Power tools are dangerous in the hands of untrained users.
20. **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.
21. **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
22. **Use the power tool, accessories and tool bits etc., in accordance with these instructions and in the manner intended for the particular type of power tool, 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

23. **Ensure the switch is in the off position before inserting battery pack.** Inserting the battery pack into power tools that have the switch on invites accidents.
24. **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.

25. **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
26. **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.
27. **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

28. **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.

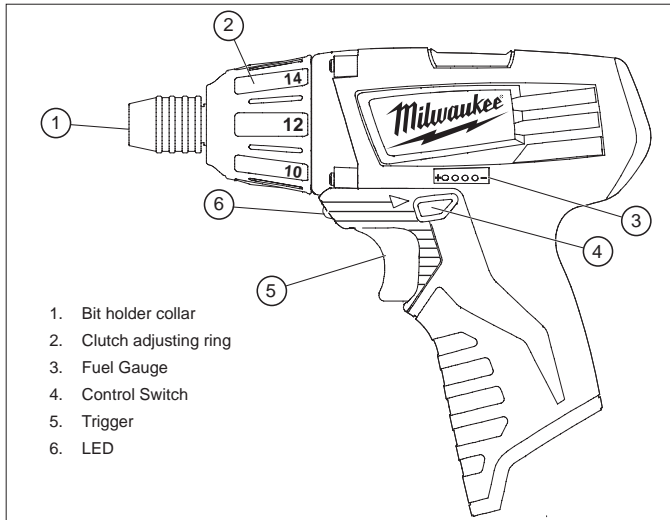
## SPECIFIC SAFETY RULES

1. **Use auxiliary handles supplied with the tool.** Loss of control can cause personal injury.
2. **Wear ear protectors with impact drills.** Exposure to noise can cause hearing loss.
3. **Hold tools by 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.
4. **Keep hands away from all cutting edges and moving parts.**
5. **Maintain labels and nameplates.** These carry important information. If unreadable or missing, contact a MILWAUKEE service facility for a free replacement.

6. **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.

### FUNCTIONAL DESCRIPTION



### Symbology

<b>V</b>	Direct Current		Underwriters Laboratories, Inc., United States and Canada
<b>n<sub>0</sub> XXXXmin.<sup>-1</sup></b>	No Load Revolutions per Minute (RPM)		

### Specifications

Cat. No.	Volts DC	No Load RPM	Capacities	
			Drilling in Wood	Driving Screws
2401-20	12	0 - 500	1/2"	1/4"

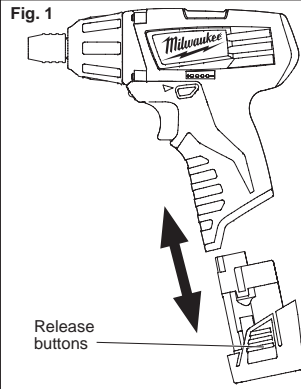
### ASSEMBLY



#### 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/Removing 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.

### Fuel Gauge

To determine the amount of charge left in the battery, pull the trigger. The Fuel Gauge will light up for 2-3 seconds.

To signal the end of charge, 1 light on the fuel gauge will flash for 2-3 seconds.

### OPERATION



#### WARNING

Always lock trigger or remove battery 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.

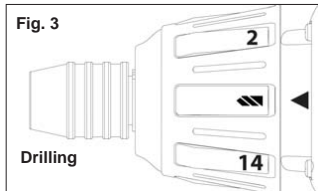
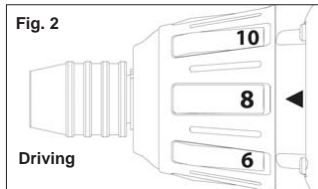
1. To **install** the bit, press the bit into the socket until the collar snaps back and the bit is locked into place.
2. To **remove** the bit, pull out the collar, then pull out the bit.

**NOTE:** It is **not** necessary to hold the collar out when installing and removing bits. The first time the tool is used, it may be necessary to pull out the collar.

### 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 (1-15) 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 Setting	in. lbs.	Applications
2	4	Small screws in softwood.
4	7	Medium screws in softwood or small screws in hardwood.
6	10	Large screws in softwoods. Medium screws in hardwood or large screws in hardwood with pilot hole.
8	13	
10	16	
12	19	
14	41	
Drill	120	

**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.

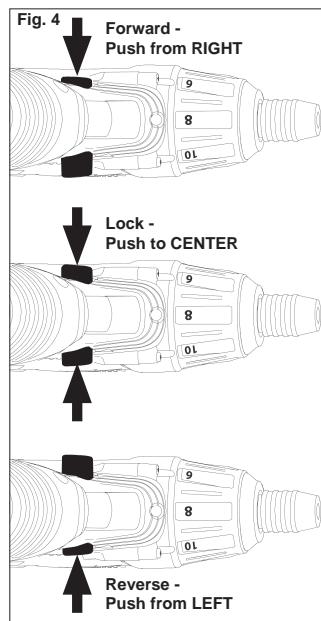
### Using Control Switch

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.



### Battery Pack Protection

To protect the battery from damage and extend its life, the tool's intelligent circuit monitors current draw, temperature, and voltage drops.

In extremely high torque, binding, stalling, and short circuit situations that cause high current draw, the tool will vibrate for about 5 seconds, **the fuel gauge will flash, and then the tool will turn OFF.** To reset, release the trigger.

Under extreme circumstances, the internal temperature of the battery could become too high. If this happens, **the fuel gauge will flash and the battery pack will shut off. Let the battery pack cool and then continue work.**

### 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 forward/reverse switch up. Screws can be removed by pressing the forward/reverse switch down.

#### Locking the Screwdriver Bit

When the tool 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 from the charger or tool before performing any maintenance. Never disassemble the tool, battery or charger. Contact a MILWAUKEE service facility for ALL repairs.

Keep your tool, battery and charger in good repair by adopting a regular maintenance program. After six months to one year, depending on use, return the tool, battery 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

### Maintaining Tool

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

### WARNING

To reduce the risk of personal injury and damage, never immerse your tool, battery 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 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 and charger to the nearest service center listed on the back cover of this operator's manual.

## ACCESSORIES

### WARNING

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

For a complete listing of accessories refer to your MILWAUKEE Electric Tool catalog or go on-line to [www.milwaukeeetool.com](http://www.milwaukeeetool.com). To obtain a catalog, contact your local distributor or a service center listed on the back cover of this operator's manual.

## FIVE YEAR TOOL LIMITED WARRANTY

Every MILWAUKEE electric power tool (including battery charger) is warranted to the original purchaser only to be free from defects in material and workmanship. Subject to certain exceptions, MILWAUKEE will repair or replace any part on a electric 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. Return the electric power tool and a copy of proof of purchase to a MILWAUKEE factory Service/Sales Support Branch location or MILWAUKEE Authorized Service Station, freight prepaid and insured, are requested for this warranty to be effective. 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.

\* The warranty period for Hoists (lever, hand chain, & electric chain hoists), all Ni-CD battery packs, Work Lights (cordless flashlights), Job Site Radios, and Trade Titan™ Industrial Work Carts is one (1) year from the date of purchase. \*The warranty period for Li-Ion battery packs that do not contain V™-technology – 4.0 volts through 18.0 volts - is two (2) years from the date of purchase.

\*There is a separate warranty for V™-technology Li-Ion Battery Packs V™18 volts and above that accompany V™-technology cordless power tools:

\*Every MILWAUKEE V™-technology Li-Ion Battery Pack 18 volts or above is covered by an initial 1000 Charges/2 Years free replacement warranty. This means that for the earlier of the first 1000 charges or two (2) years from the date of purchase/first charge, a replacement battery will be provided to the customer for any defective battery free of charge. Thereafter, customers will also receive an additional warranty on a pro rata basis up to the earlier of the first 2000 charges or five (5) Years from the date of purchase/first charge. This means that every customer gets an additional 1000 charges or three (3) years of pro rata warranty on the V™-technology Li-Ion Battery Pack 18 volts or above depending upon the amount of use. During this additional warranty period, the customer pays for only the useable service received over and above the first 1000 Charges/2 years, based on the date of first charge and number of charges found on the battery pack via Milwaukee's V™-technology Service Reader.

Warranty Registration is not necessary to obtain the applicable warranty on a MILWAUKEE product. However, proof of purchase in the form of a sales receipt or other information deemed sufficient by MILWAUKEE, is requested.

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