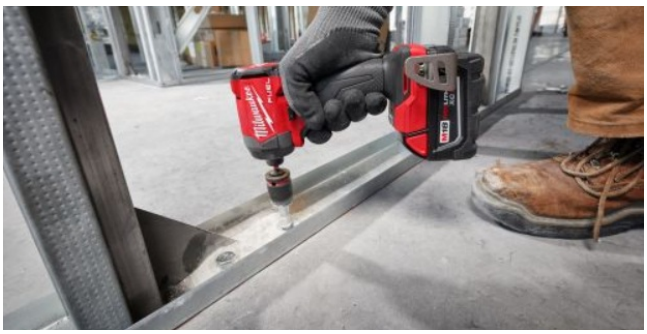


Milwaukee M12FID2 FUEL™ 1/4″ Hex Impact DriverID2 Instruction Manual

Contents

Milwaukee M12FID2 FUEL™14 Hex Impact DriverID2

GENERAL POWER TOOL SAFETY WARNINGS

WARNING Read all safety warnings, instructions provided with this power tool. Failure to follow all instructions listed below may result in
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-oper-ated (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 atmosphere 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.
  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 a 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
  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 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 jewellery. Keep your hair and clothing 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. 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 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 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 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 with another battery pack.
- 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 cause burns
- Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact ac-cidentally 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
- Do not expose a battery pack or tool to fire or excessive temperature. Exposure to fire or temperature above 130°C (265°F) may cause explosion.
- Follow all charging instructions and do not charge the battery pack or tool outside the temperature range specified

SERVICE

- have your power tool service 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 authorised service providers.

SPECIFIC SAFETY RULES FOR IMPACT DRIVERS

- 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.

- Wear ear protectors when impact drilling. Expo-sure to noise can cause hearing loss.
- Use only sockets and other accessories specified and drivers. Other sockets and accessories might shatter or break causing injury.
- **WARNING** To reduce the risk of injury, when working in dusty situations, wear appropriate respiratory protection or use a suitable dust extraction solution.
- 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.
  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

ADDITIONAL BATTERY SAFETY RULES
WARNING To reduce the risk of fire, personal injury, and product damage due to a short circuit, never immerse your tool, battery pack or charger in fluid or allow a fluid to flow inside them. Corrosive or conductive fluids, such as seawater, certain industrial chemicals, and bleach or bleach-containing products, etc., can cause a short circuit.
Do not charge non-rechargeable batteries.

SYMBOLOGY

- Volts

- Direct Current

- No Load Revolutions per Minute (RPM)

- Impacts per Minute Under Load (IPM)

- Read operator’s manual

- Regulatory Compliance Mark (RCM). This product meets applicable regulatory requirements.

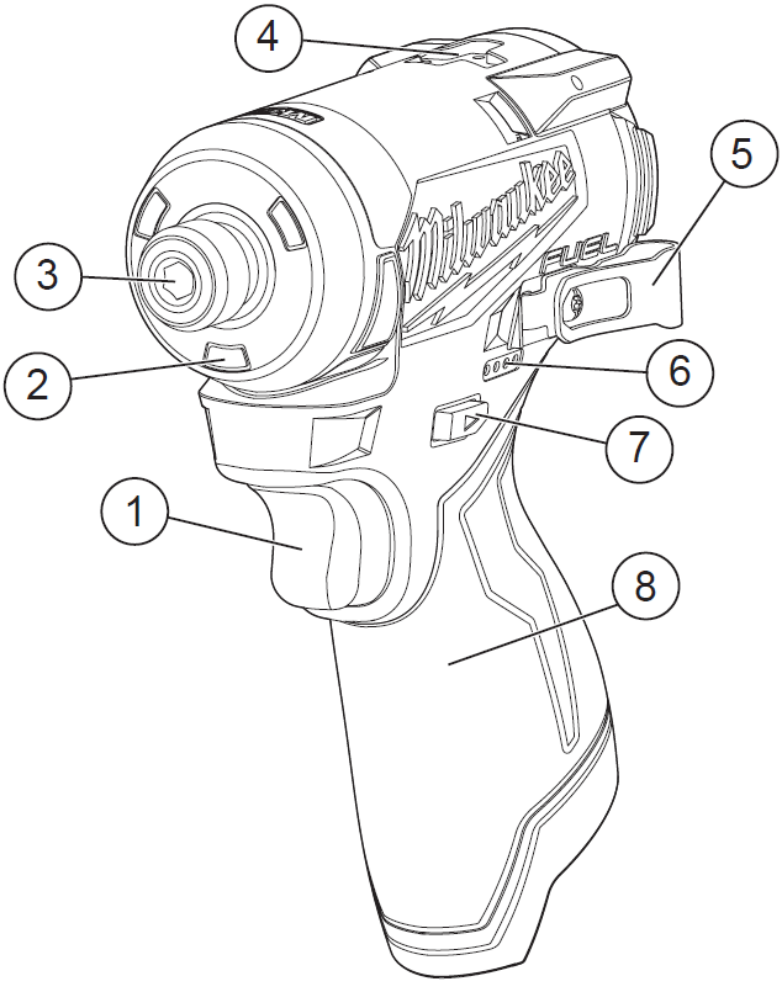
- Do not dispose of electric tools together with household waste material. Electric tools and electronic equipment that have reached the end of their life must be collected separately and returned to an environmentally compatible recycling facility.

SPECIFICATIONS

- Cat. No. …….. M12 FID2
- Volts…….. 12V DC
- Battery Type ……..M12™
- Charger Type……M12™
- RPM. …….. 0 – 3600
- IPM …… 0 – 4000
- Recommended Ambient
- Operating Temperature …… -17°C to 51°C

FUNCTIONAL DESCRIPTION

1. Trigger
2. LED
3. 1/4″ Hex drive chuck
4. Drive control
5. Belt clip
6. Fuel gauge
7. Control switch
8. Handle



ASSEMBLY

WARNING Recharge only with the charger- manual supplied with your charger and battery.

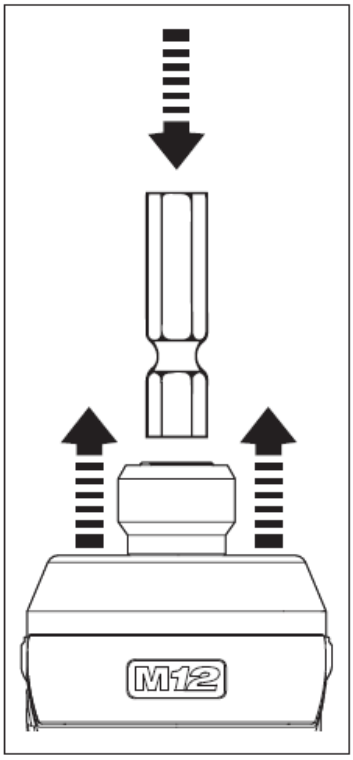
Removing/Inserting the Battery

To remove the battery, push in the release buttons and pull the battery pack away from the tool.
WARNING Always lock the trigger or remove the battery tool is not in use.
To insert the battery, slide the pack into the body of the tool. Make sure it latches securely into place.
Use only sockets and other assecories specially designed for use on impact wrenches and drivers. Other sockets and accessories might shatter or break causing injury.

Attaching and Removing Accessories Hex Drive Chuck

This driver is intended for use with drill and driver bits with a 1/4″ hex shank and ball detent recess.

1. To attach an accessory, press the shank into the hex drive chuck.
2. To remove the accessory, pull out the ring and remove the accessory. Release the ring.



OPERATION

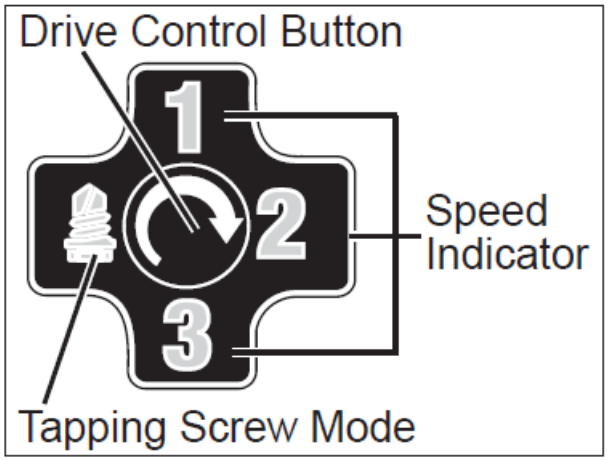
WARNING Always remove battery pack before changing or removing accessories. Only use accessories specifically recommended for this tool. Others may be hazardous.
To reduce the risk of injury, always wear proper eye protection marked to comply with AS/NZS 1337.1.
When working in dusty situations, wear appropriate respiratory protection or use a suitable dust extraction solution.

Fuel Gauge

To determine the amount of charge left in the battery, turn the tool ON. The Fuel Gauge will light up for 2-3 seconds. When less than 10% of charge is left, 1 light
To signal the end of charge, 1 light on the fuel gauge the battery pack.
If the battery becomes too hot, the fuel gauge lights to cool down.

Using the Drive Control

The drive control button is used to adjust the rotation speed (RPM) for the application.
To select the drive control mode:



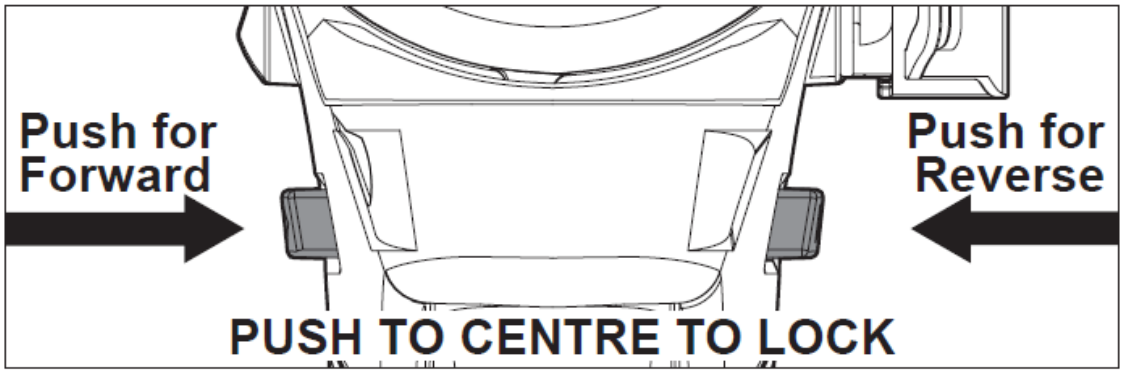
1. Pull and release the trigger to turn on the tool. The current indicator is lit.
2. Press the drive control button to cycle through the 4 modes. When the desired mode indicator is lit, begin work.

In self tapping screw mode, the tool will drive 0-3600* 0-4000* at full RPM until the screw taps.
Then, for better control, the RPM will slow as the screw seats to the workpiece.

Mode	RPM	IPM
1	0-1700	0-1300
2	0-2900	0-3500
3	0-3600	0-4000
	0-3600*	0-4000*

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.



1. For forward (clockwise) rotation, push the control switch in the direction shown. Check the direction of rotation before use.
2. For reverse (counterclockwise) rotation, push the control switch in the direction shown. Check the direction of rotation before use.
3. To lock the trigger, push the control switch to the center position. The trigger will not work when the control switch is in the locked position.
   Always lock the trigger or remove the battery pack any time the tool is not in use.

Starting, Stopping and Controlling Speed

These tools may be operated at any speed from 0 to full speed.

1. To start the tool, pull the trigger.
   NOTE: An LED is turned on when the trigger is released.
2. To vary the driving speed, simply increase or decrease pressure on the trigger. The further the trigger is pulled, the greater the speed.
3. To stop the tool, release the trigger and the electric brake stops the tool instantly.

Impacting Techniques
The longer a bolt, screw, or nut is impacted, the tighter it will become. To help prevent damaging the fasteners or workpieces, avoid excessive impact-ing. Be particularly careful when impacting smaller fasteners because they require less impacting to reach optimum torque.
Practice with various fasteners, noting the length of time required to reach the desired torque. Check the tightness with a hand-torque wrench. If the fasteners are too tight, reduce the impacting time. If they are not tight enough, increase the impacting time.
Oil, dirt, rust or other matter on the threads or under the head of tightness.
The torque required to loosen a fastener averages 75% to 80% of the tightening torque, depending on the condition of the contacting surfaces.
On light gasket jobs, run each fastener down to a relatively light torque and use a hand torque wrench for final tightening

MAINTENANCE

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

Maintaining Tool

Keep your tool, battery pack and charger in good repair by adopting a regular maintenance program. Inspect your tool for issues such as undue noise, misalignment or binding of moving parts, breakage of parts, or any other condition that may affect the tool operation. Return the tool, battery pack, and charger to a MILWAUKEE® service facility for repair. After six months to one year, depending on use, return the tool, battery pack and charger to a MILWAUKEE® service facility for inspection.
If the tool does not start or operate at full power with a fully charged battery pack, clean the contacts on the battery pack. If the tool still does not work properly, return the tool, charger and battery pack, to a MILWAUKEE® service facility for repairs.
Warning To reduce the risk of personal injury and damage, never immerse your tool, battery pack or charger in liquid or allow a liquid to flow inside them.

Cleaning

Clean dust and debris from vents. Keep handles clean, dry and free of oil or grease. Use only mild soap and a damp cloth to clean, since certain cleaning agents and solvents are harmful to plastics and other insulated parts. Some of these include petrol, 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 centre.

ACCESSORIES

WARNING Use only recommended accessories Others may be hazardous.
For a complete listing of accessories, go online to **milwaukeetool.com.au** / **milwaukeetool.co.nz** or contact a distributor.

WARRANTY – AUSTRALIA and NEW ZEALAND

Please refer to Australian and New Zealand warranty supplied with tool. This warranty applies only to product sold by authorised dealers in Australia and New Zealand.

SERVICE – AUSTRALIA and NEW ZEALAND

MILWAUKEE® prides itself in producing a premium quality product that is Nothing But Heavy DutyTM. Your satisfaction with our products is very important to us! If you encounter any problems with the operation of this tool, please contact your authorised MILWAUKEE® dealer.
For a list of MILWAUKEE® dealers, guarantee or service agents please contact MILWAUKEE® Customer Service or visit our website.
(Australia Toll Free Telephone Number 1300 645 928)
(New Zealand Toll Free Telephone Number 0800 645 928)
or visit milwaukeetool.com.au/milwaukeetool.co.nz.

Documents / Resources

	Milwaukee M12FID2 FUEL™ 1/4" Hex Impact DriverID2 [pdf] Instruction Manual M12FID2 FUEL 1 4 Hex Impact DriverID2, M12FID2, FUEL 1 4 Hex Impact DriverID2, Hex Impact DriverID2, Impact DriverID2

References

- Milwaukee Tool | Official New Zealand Site of Milwaukee Tool | Nothing but HEAVY DUTY®
- Milwaukee Tool | Official Australia Site of Milwaukee Tool | Nothing but HEAVY DUTY®