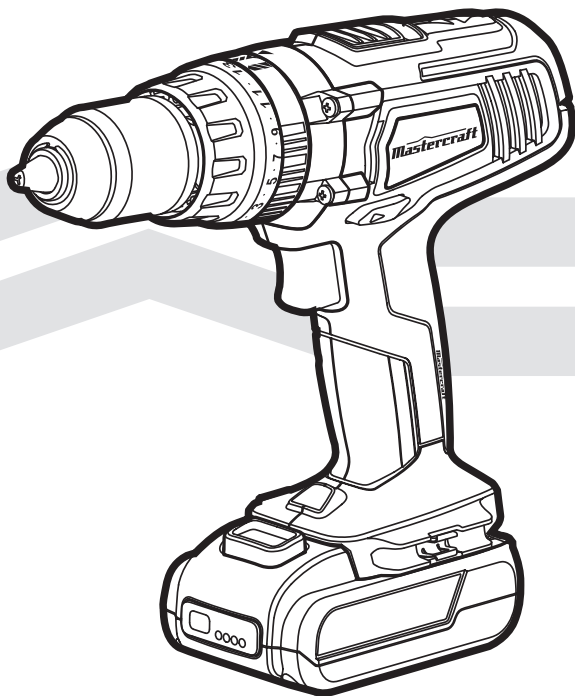


Mastercraft™



INSTRUCTION MANUAL

20V max* LITHIUM-ION CORDLESS HAMMER DRILL

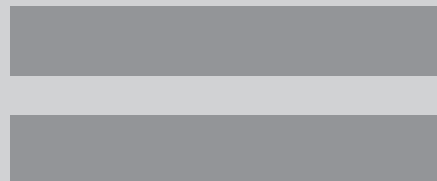
054-3122-4

If any parts are missing or damaged, or if you have any questions, please call our toll-free helpline at 1-800-689-9928.



Read and understand this instruction manual thoroughly before using the product. It contains important information for your safety as well as operating and maintenance advice.

Keep this instruction manual for future use. Should this product be passed on to a third party, then this instruction manual must be included.



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MOTOR	20V DC
CHUCK	1/2" (13mm)
NO-LOAD SPEED	0–420 RPM 0–1500 RPM
MAX. TORQUE	42N·M (375in.-lbs.)
CLUTCH	24 Position
CORDLESS HAMMER DRILL WEIGHT (WITHOUT BATTERY)	3 lb (1.36 kg)
BATTERY TYPE	Lithium-Ion
BATTERY VOLTAGE	20V max* DC
NOISE LEVEL	89.5 dB(A)
VIBRATION	$a_{hD}=12.97 \text{ m/s}^2$, $k_D=1.5$

*Maximum battery voltage without workload; with workload nominal voltage is 18V.

**WARNING!**

Safety symbols in this Instruction Manual are used to flag possible dangers. The safety symbols and their explanations require your full understanding. The safety warnings do not, by themselves, eliminate any danger, nor are they substitutes for proper accident prevention measures.

**WARNING!**

This Safety Alert Symbol indicates caution, warning, or danger. Failure to obey a safety warning can result in serious injury to yourself or others. To reduce the risk of injury, fire, or electric shock, always follow the safety precautions.

Know your tool

To operate this tool, carefully read this Instruction Manual and all labels affixed to the Cordless Hammer Drill before using it. Keep this Instruction Manual available for future reference.

Important

This tool should only be serviced by a qualified service technician. For more information, call the toll-free helpline at 1-800-689-9928.

READ ALL INSTRUCTIONS THOROUGHLY.**SAVE THESE INSTRUCTIONS.****Safety guidelines for cordless power tools****WARNING!**

Read all safety warnings and 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 the 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 the 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 a 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 tool while 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 dust mask, non-skid safety shoes, hard hat, or hearing protection, used for appropriate conditions, will reduce personal injuries.
- **Prevent unintentional starting.** Ensure that the switch is in the off-position before connecting to a power source and/or battery pack, picking up or carrying the tool. Carrying power tools with your finger on the switch or plugging in 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, clothing and gloves 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 that these are connected and properly used.** Use of these devices 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 more safely 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, 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.** The use of any other battery pack may create a risk of injury and fire.
- **When the battery pack is not in use, keep it away from other metal objects, such as 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 occurs, flush with water. If liquid comes into contact with the eyes, 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.

Safety guidelines for cordless hammer drill



WARNING!

To reduce the risk of electric shock or damage to the charger and battery, use only the batteries and charger listed.

BATTERY PACK	CHARGER
054-3124-0	054-3126-6, 5320.3
054-3125-8	

- **Hold power tools by the insulated gripping surfaces when performing an operation where the tool may contact hidden wiring or its own cord.** Contact with 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.** Exposure to noise can cause hearing loss.
- **Use auxiliary handle(s), if supplied with the tool.** Loss of control can cause personal injury.
- **When working with the power tool, always hold it firmly with both hands and provide for a secure stance.** The power tool is guided more securely with both hands.
- **Keep the cord and charger from heat to prevent damage to the housing or internal parts.**
- **Secure the workpiece.** Clamping devices or a vise will hold the workpiece in place better than the hand.
- **Do not allow gasoline, oils, petroleum-based products, etc., to come in contact with plastic parts.** These materials contain chemicals that can damage, weaken, or destroy plastic.
- **Always wait until the machine has come to a complete stop before placing it down.** The tool insert can jam and lead to loss of control over the power tool.
- **Before performing any kind of work on the machine (e.g., maintenance, tool change, etc.) as well as when transporting and storing it, always set the direction-of-rotation switch to the centre (locked) position.** Unintentional activation of the On/Off switch may result in personal injury.
- **Do not open the battery.** There is risk of a short circuit.
- **Protect the battery from heat and fire.** There is risk of explosion.
- **Wear ear protectors when using the hammer drill.** Exposure to noise can cause hearing loss.
- **Use protective gloves when removing the bit from the tool, or first allow the clamp to cool down.** The bit may be hot after prolonged use.
- **Use protective gloves when operating the tool.** Protective gloves can help to keep you from being burnt and hurt.

- **Keep your hands away from the motor-housing vents.** Hot gas comes from the vents during operation.
- **Release the trigger immediately when a screw is tightened to avoid breaking the screw.**
- **For best results, your battery tool should be charged in a location where the temperature is more than 0°C (32°F) but less than 40°C (104°F).** Do not store outside or in vehicles.

Contents

Cordless Hammer Drill, Battery Pack, Charger, 2 Double-End Bits, Soft Case and Instruction Manual



WARNING!

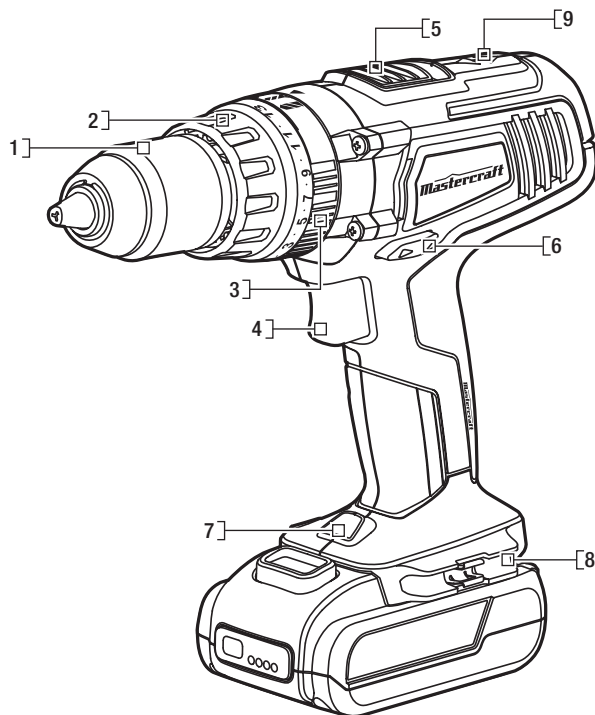
Remove the Cordless Hammer Drill from the package and examine it carefully. Do not discard the carton or any packaging material until all parts have been examined.



WARNING!

If any part of the Cordless Hammer Drill is missing or damaged, do not attach the battery pack to the tool or use the tool until the part has been repaired or replaced. Failure to heed this warning could result in serious injury.

Know your cordless hammer drill



No.	Description	No.	Description
1	Keyless chuck	6	Direction-of-rotation selector
2	Torque-adjustment ring	7	LED Worklight
3	Mode-selection ring	8	Bit storage
4	Variable speed trigger switch	9	Forward/Reverse LED Indicator
5	Two-speed gearbox switch		



WARNING!

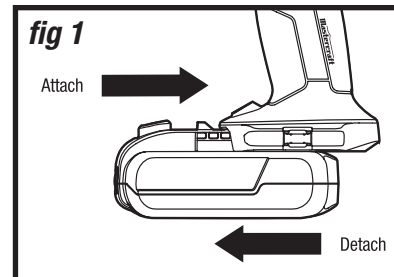
Do not allow familiarity with the Cordless Hammer Drill to cause a lack of alertness. A fraction of a second of carelessness is enough to cause severe injury.

To attach battery pack (fig 1)



CAUTION!

Avoid the possibility of accidental starting. Always take care not to activate the trigger switch when you are attaching the battery pack or performing other adjustments to the tool.



NOTE: When placing a battery pack on the tool, be sure that the raised rib on the battery pack aligns with the groove on the cordless hammer drill and the latches snap into place properly. Improper assembly of the battery pack can cause damage to internal components.

1. Lock the trigger switch on the hammer drill by placing the direction-of-rotation selector (forward/centre-lock/reverse) in the centre position.
2. Align the raised portion on the battery pack with the groove on the bottom of the hammer drill, and then attach the battery pack to the hammer drill as shown.
3. Make sure that the latch on the battery pack snaps into place and that the battery pack is secured to the hammer drill before beginning operation.

To detach battery pack (fig 1)



CAUTION!

Avoid the possibility of accidental starting. Always take care not to activate the trigger switch when you are detaching the battery pack or performing other adjustments to the tool.

1. Lock the trigger switch on the hammer drill by placing the direction-of-rotation selector (forward/centre-lock/reverse) in the centre position.
2. Depress the battery-release button located on the front of the battery pack to release the battery pack.
3. Pull forward on the battery pack to remove it from the hammer drill.

Trigger switch (fig 2)

To turn the hammer drill ON, depress the trigger switch. To turn it OFF, release the trigger switch.

Variable speed (fig 2)

The variable-speed trigger switch delivers higher speed with increased trigger pressure and lower speed with decreased trigger pressure.

Direction-of-rotation selector (forward/centre-lock/reverse)

(fig 3-4)

The direction of rotation of the bit is reversible and is controlled With the direction-of-rotation selector located above the trigger switch. With the hammer drill held in normal operating position:

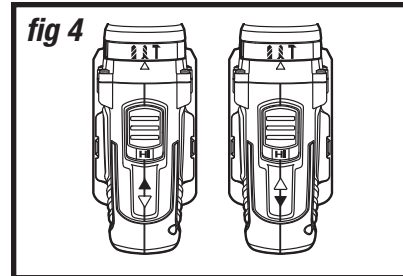
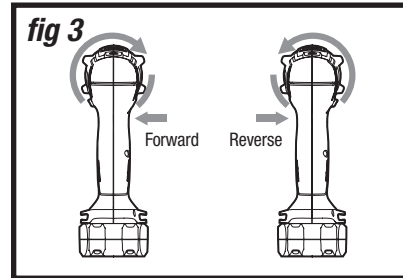
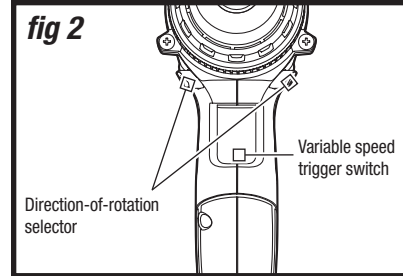
Position the direction-of-rotation selector to the left of the tool for forward rotation. The forward/reverse LED indicator on the hammer drill will light green (fig 4).

Position the direction-of-rotation selector to the right of the tool for reverse rotation. The forward/reverse LED indicator on the hammer drill will light red (fig 4).

Position the direction-of-rotation selector in the center to lock the tool off.

NOTE: To prevent gear damage, always allow the hammer drill to come to a complete stop before changing the direction of rotation.

NOTE: The hammer drill will not run unless the direction-of-rotation selector is engaged fully to the left or right.

**LED Worklight (fig 5)**

The LED worklight, located on the base of the cordless hammer drill will illuminate when the trigger switch is depressed. This provides additional light on the surface of the workpiece for operation in lower light situations. The LED worklight will turn off when the trigger switch is released.

Electric brake

To stop the tool, release the trigger switch and allow the keyless chuck to come to a complete stop. The electric brake quickly stops rotation. This feature engages automatically when you release the trigger switch.

Keyless chuck (fig 6)

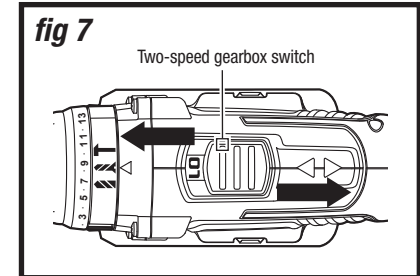
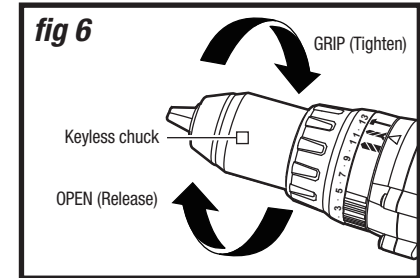
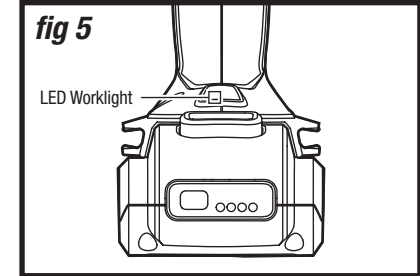
The arrows on the keyless chuck indicate the direction of rotation of the body of the chuck to GRIP (tighten) or OPEN (release) the jaws of the chuck on the drill bit.

**WARNING!**

Do not hold the body of the keyless chuck with one hand while using the power of the hammer drill to tighten the jaws of the chuck on the drill bit. The body of the keyless chuck could slip in your hand, or your hand could slip and come into contact with the rotating bit. This could cause an accident and result in serious personal injury.

Two-speed gear box (fig 7)

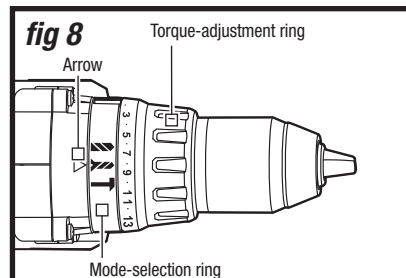
This hammer drill features a two-speed gearbox that is designed for drilling or driving at LO speed or HI speed. A slide switch is located on the top of the hammer drill to select either LO or HI speed.



When using the hammer drill in the LO speed range, the speed will decrease and the hammer drill will have more power and torque. When using the hammer drill in the HI speed range, the speed will increase and the hammer drill will have less power and torque.

When using the hammer drill in the HI speed range, the speed will increase and the hammer drill will have less power and torque.

Use LO speed for high power and torque applications, and use HI speed for fast drilling or driving applications.



CAUTION!

Do not change between LO speed and HI speed while the tool is running. Failure to obey this caution could result in serious damage to the hammer drill.

Mode-selection ring (fig 8)

The hammer drill is equipped with a separate mode-selection ring to switch among drilling, screw-driving and hammer-drilling modes.



CAUTION!

When the mode-selection ring is in the drilling or hammer-drilling mode, the hammer drill will not clutch out, regardless of the position of the torque-adjustment ring.

1. To use the drilling mode, rotate the mode-selection ring so that the drill symbol "⌘" is aligned with the arrow.
2. To use hammer-drilling mode, rotate the mode selection ring so that the hammer drill symbol "⌘" is aligned with the arrow.

NOTE: The torque-adjustment ring may be set on any number.

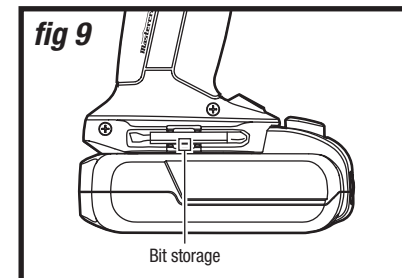
3. To use the screw-driving mode, rotate the mode-selection ring so the screw symbol "⌘" is aligned with the arrow.

NOTE: The torque-adjustment ring may be set to any number. However, the torque-adjustment ring is engaged only during screw-driving mode (not in the drill and hammer-drilling modes).

NOTE: Do not rotate the torque-adjustment ring while the drill is running.

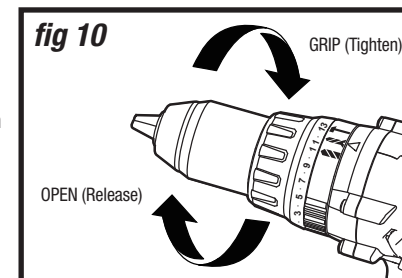
Bit storage (fig 9)

When not in use, the bits that are provided with the cordless hammer drill may be stored on both sides of the cordless hammer drill by snapping them into place in the bit storage.



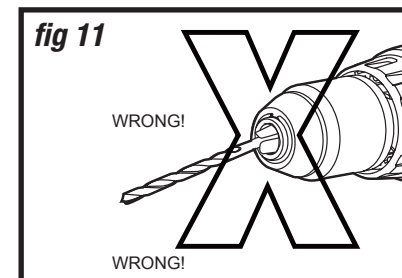
Installing a bit (fig 10)

1. Lock the trigger switch by placing the direction-of-rotation selector in the OFF (centre) position.
2. Rotate the chuck in the "OPEN" direction to release the jaws of the chuck.
3. Insert the drill bit.
4. Rotate the chuck in the "GRIP" direction to tighten the jaws of the chuck securely on the bit.



WARNING!

Be sure to insert the drill bit straight into the jaws of the chuck. Do not tighten the jaws of the chuck with the drill bit inserted at an angle, as shown in fig. 11. Doing so could cause the drill bit to be thrown from the hammer drill, which could result in possible serious personal injury or damage to the chuck.



Removing a bit (fig 10)

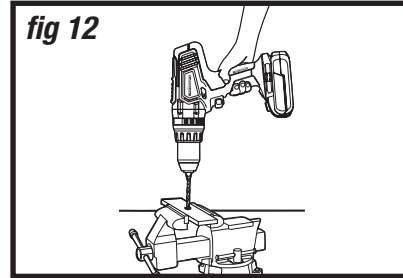
1. Lock the trigger switch by placing the direction-of-rotation selector in the OFF (centre) position.
2. Open the jaws of the chuck (rotate in the "OPEN" direction.)
3. Remove the drill bit.

**WARNING!**

Use protective gloves when removing the bit from the tool, or first allow the clamp to cool down. The bit may be hot after prolonged use.

General drilling (fig 12)**WARNING!**

Always wear safety goggles or safety glasses with side shields during power tool operation or when blowing dust. If the operation is dusty, also wear a dust mask.

**fig 12**

1. Check the direction-of-rotation selector for the correct setting (forward or reverse).
2. Use a vise or clamps to secure the material to be drilled to keep it from turning as the drill bit rotates.
3. Hold the cordless hammer drill firmly, and place the bit at the point to be drilled.
4. Depress the trigger switch to start the cordless hammer drill.
5. Move the drill bit into the workpiece, applying only enough pressure to keep the bit cutting.
6. Do not force the cordless hammer drill or apply sideways pressure to elongate a hole. Allow the tool to do the work.
7. When drilling hard, smooth surfaces, use a centre punch to mark the desired location of the hole. This will prevent the drill bit from slipping off-centre when the hole is started.
8. When drilling metal, use light oil on the drill bit to prevent it from overheating. The oil will prolong the life of the bit and will increase the drilling efficiency.
9. If the bit jams in the workpiece or if the hammer drill stalls, stop the tool immediately. Reverse the direction of rotation and gently squeeze the trigger switch to remove the bit from the workpiece. Investigate and correct the cause of jamming before resuming work.

**WARNING!**

Be prepared for binding when the bit breaks through the workpiece, because the hammer drill has a tendency to grab and kick opposite to the direction of rotation, which could cause a loss of control. If the operator is not prepared, this loss of control could result in serious injury.

Drilling mode operation**WARNING!**

Always wear safety goggles or safety glasses with side shields during power tool operation or when blowing dust. If operation is dusty, also wear a dust mask.

FOR DRILLING IN WOOD, USE TWIST BITS, SPADE BITS, POWER AUGER BITS OR HOLE SAWS.

1. When drilling "through" holes, place a block of wood behind the workpiece to prevent ragged or splintered edges on the back side of the hole.
2. Select the desired speed to match the planned operation.
3. Begin drilling at a very low speed to prevent the bit from slipping off of the starting point, and then increase the speed as the drill bit bites into the material.
4. If the hammer drill stalls, it is usually because it is being overloaded. Release the trigger switch immediately, reverse the direction of rotation and gently squeeze the trigger switch to remove the bit from the workpiece. Investigate and correct the cause of stalling before resuming work.
5. Keep the motor running when pulling the bit back out of the completed hole. This will prevent jamming.

FOR DRILLING IN METAL, USE HIGH SPEED STEEL TWIST DRILL BITS.

1. Use light oil on the drill bit to keep it from overheating; the oil will prolong the life of the bit and increase the drilling action.
2. When drilling a large hole, first use a smaller bit to drill a small pilot hole to prevent the larger bit from slipping.
3. Select the desired speed to match the planned operation.
4. Begin drilling at a very low speed to prevent the bit from slipping off the starting point. Maintain a speed and pressure which allows cutting without overheating the bit.
5. If the hammer drill stalls, it is usually because it is being overloaded. Release the trigger switch immediately, reverse the direction of rotation and gently squeeze the trigger switch to remove the bit from the workpiece. Investigate and correct the cause of stalling before resuming work.
6. Keep the motor running when pulling the bit back out of completed hole. This will prevent jamming.

Hammer drilling mode operation

1. When hammer drilling, use just enough force on the drill to keep it from bouncing excessively. Too much force will cause slower drilling speeds, overheating and a lower drilling rate.
2. Do not exert side pressure on the bit when drilling as this will cause clogging of the bit flutes and a slower drilling speed.
3. If the drill speed starts to drop off when drilling deep holes, pull the bit partially out of the hole with the tool still running to help clear debris from the hole.

For masonry, use carbide-tipped bits or masonry bits. A smooth, even flow of dust indicates the proper drilling rate.

Screwdriver operation

1. Select the desired speed/torque range to match the planned operation.
2. Attach the desired fastener accessory into the chuck.
3. Make a few practice runs in a scrap piece before working.

General maintenance



WARNING!

To avoid personal injury, always remove the battery pack from the tool when cleaning or performing any maintenance.



WARNING!

Do not let brake fluids, gasoline, petroleum-based products, penetrating oil, etc. come into contact with plastic parts. These substances contain chemicals that can damage, weaken, or destroy plastic.

The tool may be cleaned most effectively with compressed dry air. Always wear safety goggles when cleaning tools with compressed air. Before each use:

- Inspect the cordless hammer drill, the trigger switch, and the cord for damage.
- Check for damaged, missing, or worn parts.
- Check for loose screws, misalignment or binding of moving parts, or any other condition that may affect the operation.
- If abnormal vibration or noise occurs, turn the cordless hammer drill off immediately, and have the problem corrected before further use.



WARNING!

When servicing, use only identical replacement parts. The use of any other parts may create a hazard or cause damage to the product.



WARNING!

Use only accessories that are recommended for this hammer drill by the manufacturer. Accessories that may be suitable for one tool may become hazardous when used with another tool.



WARNING!

To ensure safety and reliability, all repairs should be performed by a qualified service technician.



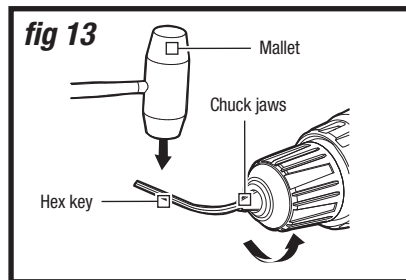
WARNING!

Upon removal of the battery pack for disposal or recycling, cover the battery pack's terminals with heavy-duty adhesive tape. Do not attempt to destroy or disassemble battery pack or remove any of its components. Lithium-Ion batteries must be recycled or disposed of properly. Also, never touch both terminals with metal objects and/or body parts as short circuit may result. Keep away from children. Failure to comply with these warnings could result in fire and/or serious injury.

Chuck removal (fig 13)

The chuck can be removed and replaced with a new one.

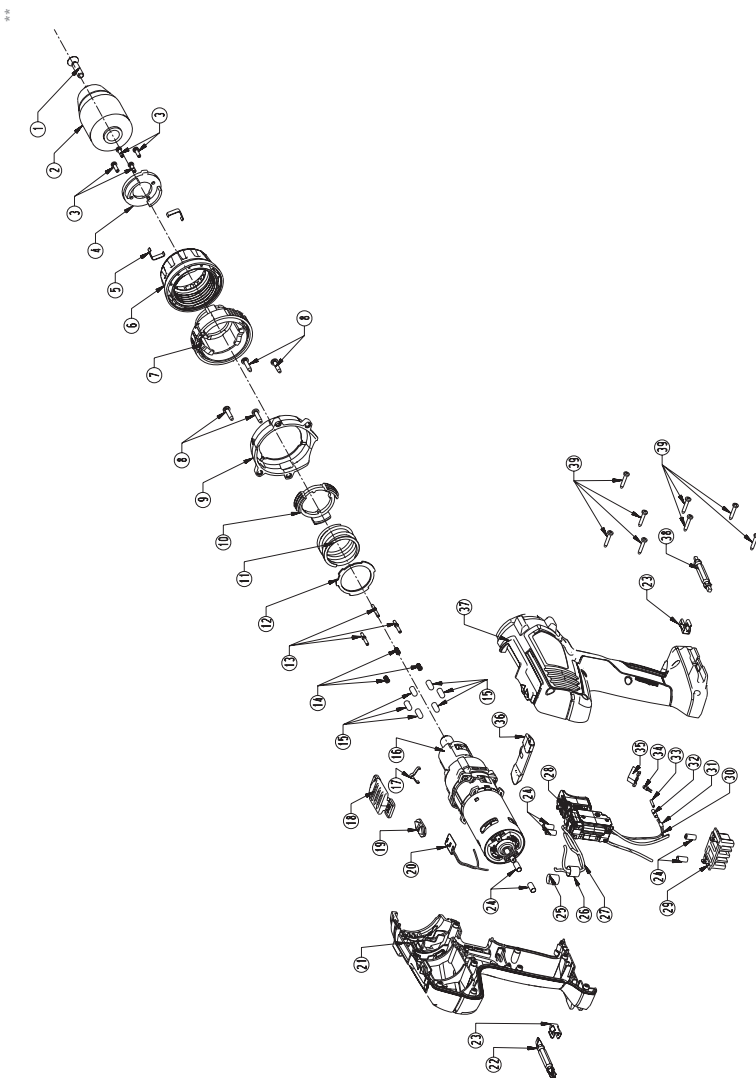
1. Lock the trigger switch by placing the direction-of-rotation selector in the centre position.
2. Open the chuck jaws. Using a screwdriver, remove the chuck screw by turning it clockwise.
3. Insert a 5/16-in. or larger hex key into the chuck of the hammer drill and tighten the chuck jaws securely.
4. Tap the hex key sharply with a mallet in a counter-clockwise direction. This will loosen the chuck for easy removal.
5. Attach a new chuck to the spindle and tighten the chuck screw.



PROBLEM	POSSIBLE CAUSES	SOLUTIONS
The hammer drill does not work.	The battery is depleted.	Charge the battery.
The bit cannot be installed.	1. The chuck is not opened.	1. Open the chuck.
	2. The bit does not fit the chuck.	2. Use a suitable bit.
The motor is overheating.	Be sure the cooling vents are free from dust and obstacles.	Clean and clear the vents. Do not cover with your hand during operation.

If the problem remains unsolved after performing the checks described above, call the toll-free helpline at 1-800-689-9928.

Exploded view



No.	Part No.	Description	No.	Part No.	Description
01	5620478000	Screw (L.H.)	34	4360225000	LED
02	3860084000	Chuck	35	3126500000	LED Cover
03	5620033000	Tapping Screw	36	3126501000	F/R Button
04	3421047000	Mounting Plate	37	3321464000	Right Housing Assembly
05	3704199000	Spring Stop	38	3810405000	Screw Bit
06	3126652000	Clutch Cap	39	5610013000	Tapping Screw
07	3126654000	Turnable Clutch Cap			
08	5610024000	Tapping Screw			
09	3421395000	Decorate Cover			
10	3123375000	Sleeve			
11	3660308000	Spring			
12	5650219000	Gasket 1			
13	5670276000	Lock Pin			
14	3660347000	Spring			
15	5670196000	Torque Pin			
16	2790322000	Motor and Gear Case Assembly			
17	3704176000	Spring Stop			
18	3126653000	Speed Change Button			
19	3126503000	Lens			
20	4890709000	PCB Assembly			
21	3321465000	Left Housing Assembly			
22	3810357000	Screw Bit			
23	3703673000	Bits Holder			
24	4920156000	Shrinkable Tube			
25	3680140000	Magnet Ring			
26	4920161000	Shrinkable Tube			
27	4860003000	Inner Wire			
28	4870452000	Trigger Switch			
29	3402631000	Contact Receptacle Assembly			
30	4860007000	Inner Wire			
31	4120312000	Lead Resistor			
32	4920154000	Shrinkable Tube			
33	4920158000	Shrinkable Tube			



This Mastercraft product is guaranteed three (3) years from the date of original retail purchase against defects in materials and workmanship, except for the following components:

- a) Component A: Batteries, chargers and carrying case, which are guaranteed for a period of 2 years from the date of original retail purchase against defects in workmanship and materials;
- b) Component B: Accessories, which are guaranteed for a period of 1-year from the date of original retail purchase against defects in workmanship and materials.

Subject to the conditions and limitations described below, this product, if returned to us with proof of purchase within the stated warranty period and if covered under this warranty, will be repaired or replaced (with the same model, or one of equal value or specification), at our option. We will bear the cost of any repair or replacement and any costs of labour relating there to.

These warranties are subject to the following conditions and limitations:

- a) a bill of sale verifying the purchase and purchase date must be provided;
- b) this warranty will not apply to any product or part thereof which is worn or broken or which has become inoperative due to abuse, misuse, accidental damage, neglect or lack of proper installation, operation or maintenance (as outlined in the applicable owner's manual or operating instructions) or which is being used for industrial, professional, commercial or rental purposes;
- c) this warranty will not apply to normal wear and tear or to expendable parts or accessories that may be supplied with the product which are expected to become inoperative or unusable after a reasonable period of use;
- d) this warranty will not apply to routine maintenance and consumable items such as, but not limited to, fuel, lubricants, vacuum bags, blades, belts, sandpaper, bits, fluids, tune-ups or adjustments;
- e) this warranty will not apply where damage is caused by repairs made or attempted by others (i.e. persons not authorized by the manufacturer);
- f) this warranty will not apply to any product that was sold to the original purchaser as a reconditioned or refurbished product (unless otherwise specified in writing);
- g) this warranty will not apply to any product or part thereof if any part from another manufacturer is installed therein or any repairs or alterations have been made or attempted by unauthorized persons;
- h) this warranty will not apply to normal deterioration of the exterior finish, such as, but not limited to, scratches, dents, paint chips, or to any corrosion or discolouring by heat, abrasive and chemical cleaners; and

- i) this warranty will not apply to component parts sold by and identified as the product of another company, which shall be covered under the product manufacturer's warranty, if any.

Additional Limitations

This warranty applies only to the original purchaser and may not be transferred. Neither the retailer nor the manufacturer shall be liable for any other expense, loss or damage, including, without limitation, any indirect, incidental, consequential or exemplary damages arising in connection with the sale, use or inability to use this product.

Notice to Consumer

This warranty gives you specific legal rights, and you may have other rights, which may vary from province to province. The provisions contained in this warranty are not intended to limit, modify, take away from, disclaim or exclude any statutory warranties set forth in any applicable provincial or federal legislation.

IMPORTED BY MASTERCRAFT CANADA TORONTO, CANADA M4S 2B8

