

BENCHMARKTM MC

20V BRUSHLESS 7-1/4" CIRCULAR SAW



5 Year Limited Warranty on tool
Battery and charger not included
Battery & charger included where applicable



E114847
JD539220

**READ ALL INSTRUCTIONS BEFORE FIRST USE.
KEEP THIS MANUAL FOR FUTURE REFERENCE.
KEEP AWAY FROM CHILDREN.**

Maximum initial battery voltage (measured without a load)
is 20 volts. Nominal voltage is 18 volts.



**WEAR CSA APPROVED
EYE PROTECTION**



**WEAR EAR
PROTECTION**



**WEAR A
FACE MASK**

PRODUCT SPECIFICATIONS

| 20V MAX BRUSHLESS 7-1/4" CIRCULAR SAW | |
|--|--|
| Rating | 20V |
| No Load Speed | 4500 RPM |
| Blade | 7-1/4" (185mm) 24Tooth Carbon Tipped |
| Arbor | 5/8" (16mm) |
| Cut at 90° | 2-9/16" (65mm) |
| Cut at 45° | 2" (50mm) |
| Cut at 50° | 1-3/4" (45mm) |
| Weight | 6.4 lb. (2.9Kg) Tool Only |
| Batteries (Sold Separately) | 5350-023 (2.5Ah), 5350-011 (4Ah), 5350-012 (5Ah) |
| Charger (Sold Separately) | 5350-010 2.4Amp or 5350-022 6A Fast Charger |

NEED ASSISTANCE?

Call us on our toll-free customer support line:
1-866-349-8665 (Monday through Friday 9am – 5pm Eastern Standard Time)

- Technical questions
- Replacement parts
- Parts missing from package




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GENERAL SAFETY INSTRUCTIONS

⚠️ WARNING: Before using this tool or any of its accessories, read this manual and follow all Safety Rules and Operating Instructions. The important precautions, safeguards and instructions appearing in this manual are not meant to cover all possible situations. It must be understood that common sense and caution are factors which cannot be built into the product.

EYE, EAR & LUNG PROTECTION

| SYMBOL | MEANING |
|--|--|
| <p>⚠️ DANGER</p>  | <p>ALWAYS WEAR EYE PROTECTION THAT CONFORMS WITH CSA Z94.3 or ANSI SAFETY STANDARD Z87.1</p> <p>FLYING DEBRIS can cause permanent eye damage. Prescription eyeglasses ARE NOT a replacement for proper eye protection. The usage of a safety standard compliant face shield placed over proper safety glasses or goggles can reduce the risk of facial injury.</p> <p>Non-compliant eyewear can cause serious injury if broken during the operation of a power tool.</p> |
| <p>⚠️ WARNING</p>  | <p>Use hearing protection, particularly during extended periods of operation of the tool, or if the operation is noisy.</p> |
| <p>⚠️ WARNING</p>  | <p>WEAR A DUST MASK THAT IS DESIGNED TO BE USED WHEN OPERATING A POWER TOOL IN A DUSTY ENVIRONMENT.</p> <p>Dust that is created by power sanding, sawing, grinding, drilling, and other construction activities may contain chemicals that are known to cause cancer, birth defects, or other genetic abnormalities. These chemicals include:</p> <ul style="list-style-type: none"> • Lead from lead-based paints • Crystalline silica from bricks, cement, and other masonry products • Arsenic and chromium from chemically treated lumber <p>The level of risk from exposure to these chemicals varies, according to how often this type of work is performed. In order to reduce exposure to these chemicals, work in a well-ventilated area, and use approved safety equipment, such as a dust mask that is specifically designed to filter out microscopic particles.</p> |

ELECTRICAL SAFETY

⚠️ WARNING: To avoid electrical hazards, fire hazards or damage to the tool, use proper circuit protection.

This tool is wired at the factory for 120V AC operation. It must be connected to a 120V AC, 15 A circuit that is protected by a time-delayed fuse or circuit breaker. To avoid shock or fire, replace power cord immediately if it is worn, cut or damaged in any way.

⚠️ 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.

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 a ground fault circuit interrupter (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 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 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.

Hold power tool 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.

Use clamps or another practical way to secure and support the workpiece to a stable platform. Holding the work by hand or against your body leaves it unstable and may lead to loss of control.

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 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 fire.

Under abusive conditions, liquids 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. 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 INSTRUCTIONS FOR BRUSHLESS 7-1/4" CIRCULAR SAW

⚠️ WARNING: Know your circular saw. Do not plug in the tool until you have read and understand this Instruction Manual. Learn the tool's applications and limitations, as well as the specific potential hazards related to this tool. Following this rule will reduce the risk of electric shock, fire, or serious injury.



Always wear eye protection. Any power tool can throw foreign objects into your eyes and cause permanent eye damage. ALWAYS wear safety goggles (not glasses) that comply with ANSI safety standard Z87.1. Everyday glasses have only impact resistant lenses. They ARE NOT safety glasses.

⚠️ WARNING: Glasses or goggles not in compliance with ANSI Z87.1 could cause serious injury when they break.

⚠️ WARNING: Always use hearing protection when sawing, particularly during extended periods of operation.

⚠️ WARNING: Always unplug the tool from the power source before changing the blade and when making any adjustments.

⚠️ DANGER: Keep hands away from cutting area and blade. Keep your second hand on auxiliary handle, or motor housing. If both hands are holding the saw, they cannot be cut by the blade.

- Hold the tool by its insulated gripping surfaces when performing an operation where the saw blade 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.
- Always hold the tool with two hands. Attempting to control the tool with only one hand is dangerous. It could result in loss of control and serious injury.
- Never hold the workpiece in one hand and the tool in the other hand when sawing. Never place the hands near or below the cutting surface.
- Clamp the workpiece and guide the tool with both hands.
- Always make sure the work surface is free from nails and other foreign objects. Cutting into a nail can cause the blade and the tool to jump and damage the blade.
- Never lay the workpiece on hard surfaces like concrete, stone, etc. The protruding blade may cause tool to jump.
- After changing a blade or making adjustments, make sure the blade clamp is holding the blade securely. Loose blades could be violently thrown from the tool.
- Never use dull or damaged blades. Sharp blades must be handled with care. Damaged blades can snap during use. Dull blades require more force to cut the workpiece, possibly causing the blade to break.
- Never touch the blade during or immediately after use. After use the blade is too hot to be touched.

⚠️ WARNING: Two handed Operation Required. This machine requires the use of two hands to ensure safe operation and should not be used when working from ladders and step ladders. If the machine is to be used when working at height a suitable, stable platform or scaffold tower with handrails and kick boards should be used.

⚠️ WARNING: Some wood and wood type products, especially MDF (Medium Density Fiberboard), can produce dust that can be hazardous to your health. We recommend the use of an approved face mask with replaceable filters when using this machine in addition to using the dust extraction facility.

- Do not reach underneath the workpiece. The guard cannot protect you from the blade below the workpiece.

Adjust the cutting depth to the thickness of the workpiece. Less than a full tooth of the blade teeth should be visible below the workpiece.

- Never hold the piece being cut in your hands or across your leg. Secure the workpiece to a stable platform. It is important to support the work properly to minimize body exposure, blade binding, or loss of control.
- Hold the power tool by insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring. Contact with a "live" wire will also make exposed metal parts of the power tool "live" and shock the operator.
- When ripping, always use a rip fence or straight edge guide. This improves the

accuracy of cut and reduces the chance of the blade binding.

- Always use blades with correct size and shape (diamond versus round) of arbor holes. Blades that do not match the mounting hardware of the saw will run eccentrically, causing loss of control.
- Never use damaged or incorrect blade washers or bolt. The blade washers and bolt were specially designed for your saw, for optimum performance and safety of operation.

CAUSES & OPERATOR PREVENTION OF KICKBACK

Kickback is a sudden reaction to a pinched, bound or misaligned saw blade, causing an uncontrolled saw to lift up and out of the workpiece toward the operator.

- When the blade is pinched or bound tightly by the kerf closing down, the blade stalls and the motor reaction drives the unit rapidly back toward the operator.
- If the blade becomes twisted or misaligned in the cut, the teeth at the back edge of the blade can dig into the top surface of the wood causing the blade to climb out of the kerf and jump back toward operator.
- Kickback is the result of tool misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below.
- Maintain a firm grip with both hands on the saw and position your arms to resist kickback forces. Position your body to either side of the blade, but not in line with the blade. Kickback could cause the saw to jump backwards, but kickback forces can be controlled by the operator, if proper precautions are taken.
- When blade is binding, or when interrupting a cut for any reason, release the trigger and hold the saw motionless in the material until the blade comes to a complete stop. Never attempt to remove the saw from the work or pull the saw backward while the blade is in motion or kickback may occur. Investigate and take corrective actions to eliminate the cause of blade binding.
- When restarting a saw in the workpiece, centre the saw blade in the kerf and check that the saw teeth are not engaged into the material. If saw blade is binding, it may walk up or kickback from the workpiece as the saw is restarted.
- Support large panels to minimize the risk of blade pinching and kickback. Large panels tend to sag under their own weight. Supports must be placed under the panel on both sides, near the line of cut and near the edge of the panel.
- Do not use dull or damaged blades. Unsharpened or improperly set blades produce a narrow kerf causing excessive friction, blade binding and kickback.
- Blade depth and bevel adjusting locking levers must be tight and secure before making a cut. If blade adjustment shifts while cutting, it may cause binding and kickback.
- Use extra caution when making a "plunge cut" into existing walls or other blind areas. The protruding blade may cut objects that can cause kickback.

SAFETY INSTRUCTIONS REGARDING LOWER GUARD

- Check lower guard for proper closing before each use. Do not operate the saw if the lower guard does not move freely and close instantly. Never clamp or tie the lower guard in the open position. If the saw is accidentally dropped, lower guard may be bent. Raise the lower guard with the blade guard lever and make sure it moves freely and does not touch the blade or any other part, in all angles and depths of cut.
- Check the operation of the lower guard spring. If the guard and the spring are not operating properly, they must be serviced before use. Lower guard may operate sluggishly due to damaged parts, gummy deposits, or a build-up of debris.
- Lower guard should be retracted manually only for special cuts such as “plunge cuts” and “compound cuts”. Raise lower guard by blade guard lever. As soon as blade enters the material, the lower guard must be released. For all other sawing tasks, the lower guard should operate automatically.
- Always observe that the lower guard is covering the blade before placing the saw down on bench or floor. An unprotected, coasting blade will cause the saw to walk backward, cutting whatever is in its path.
- Be aware of the time it takes for the blade to stop after the switch is released.

ADDITIONAL WARNINGS

- Battery tools do not have to be plugged into an electrical outlet; therefore, they are always in operating condition. Be aware of possible hazards when not using your battery tool or when changing accessories. Following this rule will reduce the risk of electric shock, fire, or serious personal injury.
- Do not use this saw to cut firewood.
- Ensure that the lighting is adequate.
- Keep the area free of tripping hazards.
- Do not let anyone under the age of 18 years operate this saw.
- Always stand to one side when operating the saw.
- Never use a cracked or distorted saw blade. Only use sharp blades.
- When cutting round wood, use clamps that prevent the work piece from turning on both sides of the blade.
- Never use your hands to remove sawdust, chips, or waste close by the blade.
- Use only blades as recommended.
- Do not use blades of High-Speed Steel (HSS blades).
- Rags, cloths, cord and string and the like should never be left around the work area.
- Avoid cutting nails. Inspect the work piece and remove all nails and other foreign objects before beginning sawing.

- Never reach over the blade to remove waste or off cuts.
- Do not attempt to free a jammed blade before first switching off the machine.
- Do not slow or stop a blade with a piece of wood. Let the blade come to rest naturally.
- If you are interrupted when operating the saw, complete the process and switch off before looking up.
- Periodically check that all nuts, bolts, and other fixings are properly tightened.
- Do not store materials or equipment above a machine in such a way that they could fall into it.
- Never saw near combustible liquids or gases.
- Note the direction of rotation of the motor and the blade.
- Do not lock the movable guard in the open position and always ensure that it is working properly, freely rotating and returning to fully cover the teeth of the blade.
- Do not use any abrasive wheel unless the machine is designed for that purpose.
- The tool must be used only for its prescribed purpose. Any use other than those mentioned in this Manual will be considered a case of misuse. The user and not the manufacturer shall be liable for any damage or injury resulting from such cases of misuse.
- The manufacturer shall not be liable for any changes made to the tool nor for any damage resulting from such changes.

LASER LIGHT SAFETY RULES


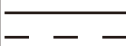












 **WARNING: Do not stare directly into the laser beam!** A hazard may exist if you deliberately stare into the beam.

Please observe all the following safety rules:

- Never aim the beam at any person or any object other than the workpiece.
- Always ensure that the laser beam is aimed at a sturdy workpiece that does not have any reflective surfaces. Wood and rough coated surfaces are acceptable. Bright shiny reflective sheet steel or similar materials are not suitable for laser use because the reflective surface could direct the beam back at the operator.
- Do not replace the laser light assembly with a different type. Repairs must be carried out by the laser manufacturer or by an authorized agent.
- Always turn the laser beam off when not in use. Leaving the tool on increases the risk of someone inadvertently staring into the laser's beam.

SYMBOLS

⚠️ WARNING: Some of the following symbols may appear on the circular saw. Study these symbols and learn their meaning. Proper interpretation of these symbols will allow for more efficient and safer operation of this tool.

| | | | |
|---|---------------------------------|---|---|
| V | VOLTS |  | Three-phase alternating current with neutral |
| A | Amperes |  | Direct current |
| Hz | Hertz | n₀ | No load speed |
| W | Watts |  | Alternating or direct current |
| kW | Kilowatts |  | Class II construction |
| µF | Microfarads |  | Splash-proof construction |
| L | Litres |  | Watertight construction |
| kg | Kilograms |  | Protective grounding at grounding terminal, Class I tools |
| H | Hours | .../min | Revolutions or reciprocations per minute |
| N/cm² | Newtons per square centimeter | ∅ | Diameter |
| Pa | Pascals | 0 | Off position |
| OPM | Oscillations per minute |  | Arrow |
| MIN | Minutes |  | Warning symbol |
| S | Seconds |  | Wear your safety glasses |
|  or ac. | Alternating current |  | Wear a dust mask |
|  3 | Three-phase alternating current |  | Wear hearing protection |



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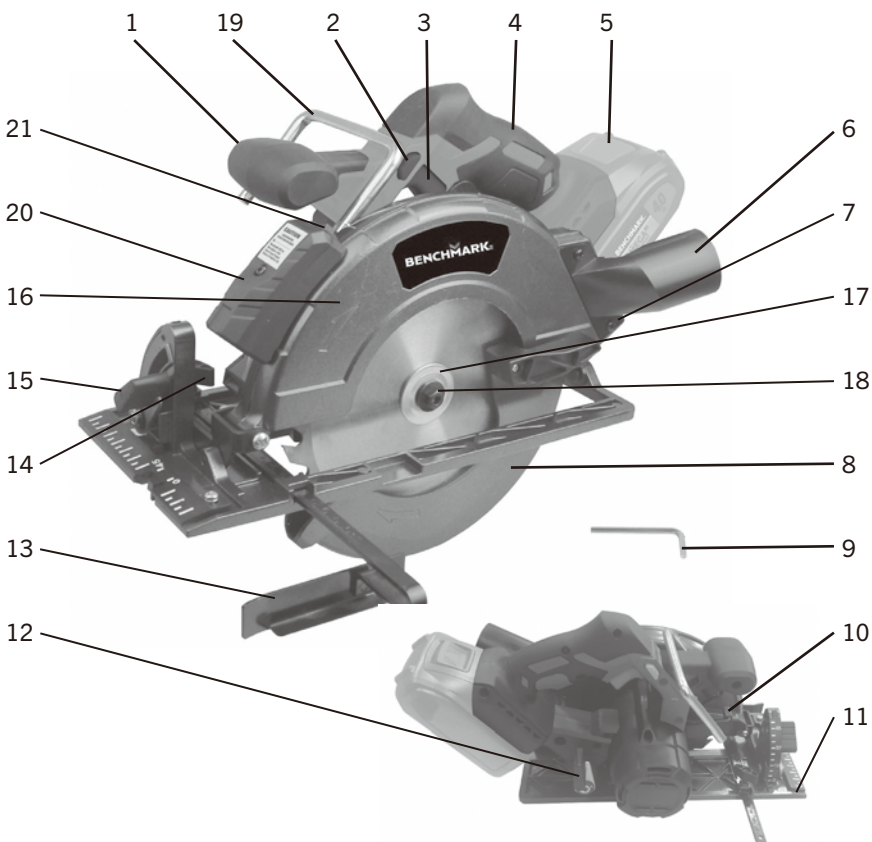
This symbol designates that this tool is listed with U.S. requirements by MET Laboratories, Inc. UL62841-1, UL62841-2-5; CSA C22.2#UL62841-1, UL62841-2-5.

KNOW YOUR 20V MAX BRUSHLESS 7-1/4" CIRCULAR SAW

⚠️ WARNING: Before starting please read, understand, and apply the safety instructions. Reminder: DO NOT vacuum hazardous substances.

FUNCTIONS

- | | | |
|--------------------------------------|-----------------------------|---------------------------|
| 1. Front Handle | 8. Lower Blade Guard | 15. Bevel Adjustment Knob |
| 2. Lock-Off Button | 9. Hex Key | 16. Upper Blade Guard |
| 3. On/Off Trigger | 10. Spindle Lock Button | 17. Blade Washer |
| 4. Rear Handle | 11. Base Plate | 18. Blade Screw |
| 5. Battery Pack (sold separately) | 12. Depth Adjustment Knob | 19. Rafter Hook |
| 6. Removable Dust Chute | 13. Edge Guide | 20. Laser (Adjustable) |
| 7. Lower Blade Guard Handle | 14. Edge Guide Locking Knob | 21. Laser On/Off Switch |



ASSEMBLY

INSTALLING BLADES

A 7-1/2 in. blade is the maximum blade capacity of the saw. Never use a blade that is too thick to allow the outer blade washer to engage with the flats on the spindle. Larger blades will come in contact with the blade guard, while thicker blades will prevent blade screw from securing the blade on the spindle. Either of these situations could result in a serious accident.

⚠️ WARNING: Always remove the battery before installing blades.

The blade is extremely sharp and care must be observed when handling. Caution must be observed as the blade guard is spring loaded and if released may cause an injury. Rotate the blade guard into the fully open position and secure it in this position using a screwdriver or piece of wood.

1. Depress the spindle lock button Fig.3.

⚠️ CAUTION: To prevent damage to the spindle or spindle lock, always allow motor to come to a complete stop before engaging spindle lock.

2. Remove the blade screw by turning it clockwise with the hex key, while keeping the spindle lock button depressed Fig.4.

3. Remove the blade washer noting which way round it is fitted.

4. Fit the saw blade inside the lower blade guard and onto the spindle ensuring that the direction of rotation arrow on the blade corresponds with the direction of rotation arrow on the fixed guard arrow Fig.5.

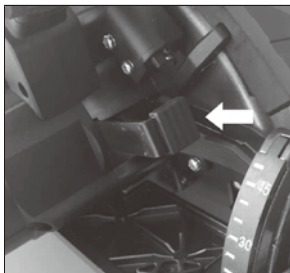


FIG. 3



FIG. 4



FIG. 5

NOTE: THE SAW TEETH POINT UPWARD AT THE FRONT OF THE SAW.

5. Replace the blade washer. Depress the spindle lock button, then replace the blade screw. Tighten the blade screw securely by turning it counterclockwise.

NOTE: CHECK THE TIGHTNESS OF THE BLADE SECURING BOLT BEFORE, DURING AND AFTER EACH USE.

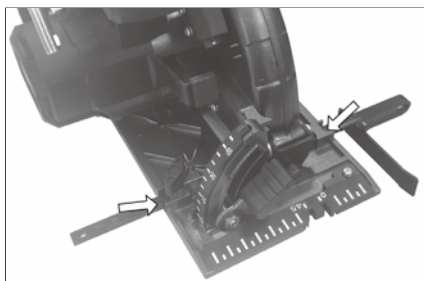
Release the tension on blade guard and remove the piece of wood or screwdriver that is holding it in the open position. Slowly release the guard so that it covers the blade. Check the operation of the blade guard making sure that it operates correctly.

REMOVING THE BLADE**⚠ CAUTION: Remove the battery pack from the saw.**

1. Depress the spindle lock button and remove the blade screw by turning it clockwise.
2. Remove the outer blade washer.
3. Remove the blade.

ATTACHING THE EDGE GUIDE**⚠ CAUTION: Before attaching the edge guide, please ensure the battery is removed from the saw.**

1. Place the edge guide through the holes in the base Fig.6.
2. Adjust the edge guide to the width needed and then tighten the parallel guide locking knob making sure the guide is secure.

**FIG. 6****NOTE: USE THE EDGE GUIDE PROVIDED WHEN MAKING LONG OR WIDE RIP CUTS WITH THE SAW.**

OPERATING INSTRUCTIONS

⚠️ WARNING: Before each use always check the operation of the lower guard before connecting the battery to the Circular Saw. Do not use the Circular Saw if the lower guard does not close smoothly over the saw blade and returns fully to the closed position.

Keep guards in place and in good working order at all times to avoid serious accidents. Support large panels as shown in Fig.7 to minimize the risk of blade pinching and kickback.

Fig. 8, below, shows the wrong way to cut large pieces of wood, cutting in this way will cause serious injury to the operator. When cutting, the saw should rest on the larger piece of the material and the smaller piece cut off. Use the parallel guide or a rip fence at all times, this will help to prevent side pressure being exerted on the blade and will also give a straighter cut.

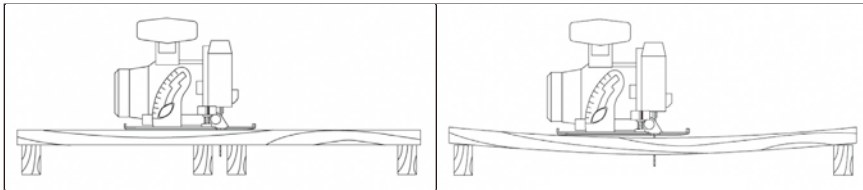


FIG. 7

FIG. 8

GUARDING AGAINST KICKBACK

Kickback occurs when the saw stalls rapidly and is driven back towards the operator. To avoid kickback keep blades sharp and always support large work pieces correctly. Release the switch immediately if blade binds or if the circular saw stalls. Do not remove the saw from a work piece while the blade is still moving. Never place your hands or fingers behind or in front of the saw Fig. 9.



FIG. 9

FIG. 10

If kickback occurs, the saw could jump backwards over your hand, possibly causing severe injury. Always lower guard with the retaining handle. Before cutting be sure that the depth and bevel adjustments are tight. Use only the correct blades for your power tool with the correct bore size. Never use defective or incorrect blade washers or bolts. Avoid cutting nails by inspecting the work piece, remove all nails from the work piece before cutting. Operate with the correct hand and work piece support.

⚠️ WARNING: It is important to support the work piece properly and to hold the saw firmly to prevent loss of control which could cause personal injury. Fig.10 illustrates the correct hand positions to support the saw safely. Place the wider portion of the saw base on that part of the work piece which is solidly supported, not on the section that will fall off when the cut is made. If the work piece is short or small, clamp it to a suitable support.



FIG. 11

FIG. 12

⚠️ WARNING: DO NOT TRY AND HOLD SHORT PIECES BY HAND.

Fig. 11 illustrates the correct way to cut off the end of a board.

Fig. 12 shows the wrong way to cut off the end of a board.

Never attempt to saw with the Circular Saw held upside down in a vice this is extremely dangerous and can lead to a serious accident.

Before setting the tool down after completing a cut, be sure that the lower guard has closed, and the blade has come to a complete stop.

ADJUSTMENTS

⚠️ CAUTION: Always ensure that the battery is disconnected from the circular saw before carrying out any maintenance or adjustments.

DEPTH OF CUT AT 90°

Always keep correct blade depth setting. The correct blade depth setting for all cuts should not exceed 1/4 in. below the material being cut. More blade depth will increase the chance of kickback and cause the cut to be rough. For more depth of cut accuracy, a scale is located on the upper blade guard.

The Circular Saw has an adjustable depth of cut. To adjust the depth of cut, slacken the lever located on the side of the machine, Fig.13.

1. Measure the depth required from the base plate to the highest point of the blade or use the depth gauge on the fixed guard, Fig. 14.
2. Tighten the depth adjustment knob securely.

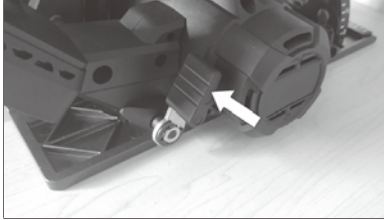


FIG. 13



FIG. 14

ANGLE OF CUT 0-45°

1. To adjust the angle of cut between 0-45° slacken the adjustable angle of cut locking knob, Fig.15.
2. The base plate assembly will now pivot between 0-50°. Set the desired cutting angle by using degree scale at the front of the machine and tighten locking knobs.

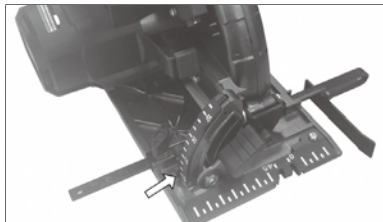


FIG. 15

At the front of the base plate there are three notches marked 0°, 45° and 50°. These notches are a guide to indicate the position of the blade in relation to the cut being made in the material.

STARTING AND STOPPING

To start the machine,

1. Press in the lock-off switch Fig.16
2. Depress and hold in the trigger, Fig.17.

There is no need to hold the lock-off switch in as it remains in place as long as the trigger is depressed. To stop the saw, release the trigger, which allows the lock-off switch to return to the locked position. Do not attempt to jam the lock-off switch.



FIG. 16

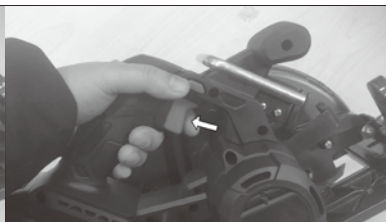


FIG. 17

LASER SWITCH

This saw is equipped with a laser guidance system for more precise cutting.

To turn the laser ON, press the laser switch (1) once (Fig. 18). To turn the laser OFF, press the laser switch again.

⚠ DANGER: NEVER ALLOW THE LASER BEAM TO SHINE INTO A PERSON'S EYES. SERIOUS EYE DAMAGE COULD RESULT.

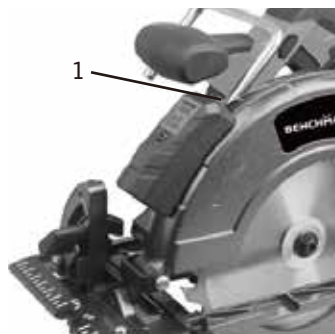


FIG.18

OPERATING THE LASER LIGHT

⚠ WARNING: DO NOT STARE DIRECTLY AT THE LASER BEAM. ONLY TURN THE LASER BEAM ON WHEN THE SAW IS ON THE WORKPIECE.

1. Mark the cutting line.
2. Remove the battery from the saw.
3. Insert battery and press the separate ON switch to turn on the laser.
4. Align and/or adjust the laser beam with the mark on the workpiece.
5. Squeeze the trigger switch and slowly push the saw forward, using both hands. Keep the laser line on the mark. Always turn the laser beam off when you have finished cutting.

MAINTENANCE

⚠ WARNING: Always remove battery pack from your tool when you are assembling parts, making adjustments, cleaning, or when not in use. Removing battery pack will prevent accidental starting that could cause serious personal injury.

⚠ WARNING: When servicing only use identical replacement parts. Use of any other parts may create a hazard or cause product damage.

⚠ 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.

GENERAL MAINTENANCE

Avoid using solvents when cleaning plastic parts. Most plastics are susceptible to damage from various types of commercial solvents and may be damaged by their use. Use clean cloths to remove dirt, dust, oil, grease, etc.

⚠ WARNING: Do not at any time let brake fluids, gasoline, petroleum-based products, penetrating oils, etc., come in contact with plastic parts. Chemicals can damage, weaken or destroy plastic which may result in serious personal injury.

Electric tools used on fiberglass material, wallboard, spackling compounds, or plaster are subject to accelerated wear and possible premature failure because the fiberglass chips and grindings are highly abrasive to bearings, brushes, commutators, etc. Consequently, we do not recommend using this tool for extended work on these types of materials. However, if you do work with any of these materials, it is extremely important to clean the tool using compressed air.

LUBRICATION

All of the bearings in this tool are lubricated with a sufficient amount of high-grade lubricant for the life of the unit under normal operating conditions. Therefore, no further lubrication is required.

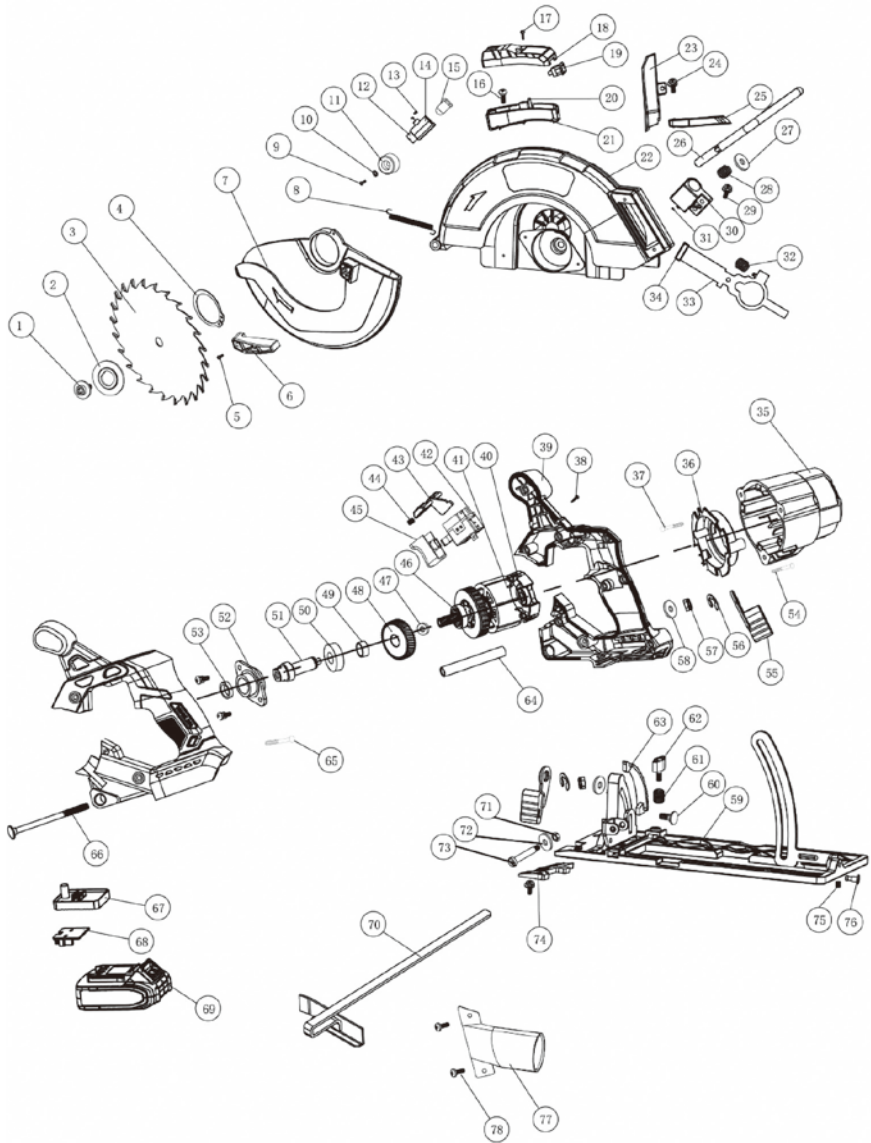
ENVIRONMENTAL PROTECTION

Information for (private householders) for the environmentally responsible disposal of Waste Electrical and Electronic Equipment (WEEE).



This symbol on products and or accompanying documents indicates that used and end of life electrical and electronic equipment should not be disposed of in household waste. For the proper disposal, treatment, recovery and recycling, please take these products to designated collection points, where they will be accepted on a free of charge basis. Alternatively, in some countries you may be able to return your products to your retailer upon the purchase of an equivalent new product. Disposing of this product correctly will help to save valuable resources and prevent any potential adverse effects on human health and the environment which could otherwise arise from inappropriate waste disposal and handling. Please contact your local authority for further details of your nearest designated collection point. Penalties may be applicable for incorrect disposal of this waste in accordance with national legislation.

EXPLODED VIEW



PARTS LIST

| KEY # | PART # | PART NAME / QUANTITY | KEY # | PART # | PART NAME |
|-------|------------|----------------------------------|-------|------------|------------------------|
| 1 | 4020080063 | Screw M6x13+ Washer Ø18.5 / 1 | 33 | 2030250023 | Spindle Lock Lever / 1 |
| 2 | 2030030246 | Blade Washer / 1 | 34 | 3140070037 | Rubber Cover / 1 |
| 3 | 6070030004 | Blade / 1 | 35 | 3160010079 | Motor Barrel / 1 |
| 4 | 4100020039 | Circlip 32 / 1 | 36 | 3150050107 | Ring / 1 |
| 5 | 4020010031 | Screw M3x10 / 1 | 37 | 4030010229 | Screw St 3.9x42 / 2 |
| 6 | 3120100054 | Lever for Guard / 1 | 38 | 4030010096 | Screw St 3.9x12 / 8 |
| 7 | 2020080053 | Removable Guard / 1 | 39 | 3010070027 | Housing / 1 |
| 8 | 2050060272 | Spring / 1 | 40 | 4010010034 | Bearing 607-2z / 1 |
| 9 | 4020010053 | Screw M4x14 / 1 | 41 | 1030300009 | Motor Assembly / 1 |
| 10 | 4040010044 | Washer Ø4xØ8x1.5 / 1 | 42 | 1060190008 | Switch / 1 |
| 11 | 3140090026 | Rubber Block / 1 | 43 | 3120040063 | Switch Lock Lever / 1 |
| 12 | 1220030013 | Laser Head / 1 | 44 | 2050060218 | Switch Spring / 1 |
| 13 | 4030010259 | Screw Pwa 3x7 / 2 | 45 | 3120010101 | Switch Button / 1 |
| 14 | 3160060102 | Laser Seat / 1 | 46 | 4010010038 | Bearing 609-2z / 1 |
| 15 | 1220040029 | Laser / 1 | 47 | 4010010032 | Bearing 606-2z / 1 |
| 16 | 4020020010 | Screw M 4x10 / 1 | 48 | 2040080063 | Big Gear / 1 |
| 17 | 4030010099 | Screw St 3.9x14 / 1 | 49 | 2040310065 | Shaft Coat / 1 |
| 18 | 3160090125 | Laser Cover / 1 | 50 | 4010010045 | Bearing 6001-2z / 1 |
| 19 | 1062020072 | Laser Switch / 1 | 51 | 2040050187 | Shaft / 1 |
| 20 | 1130030085 | Laser Pcb / 1 | 52 | 2020130044 | Bearing Seat / 1 |
| 21 | 3160090126 | Laser Box / 1 | 53 | 2020150084 | Nut / 1 |
| 22 | 2020080052 | Fixed Guard / 1 | 54 | 4020010115 | Screw M4x28 / 4 |
| 23 | 3160090127 | Cover / 1 | 55 | 2030030323 | Lever for Depth / 2 |
| 24 | 4020010217 | Screw M4x7 / 4 | 56 | 4100050004 | Ring / 2 |
| 25 | 3110010263 | Laser Decorative Plate / 1 | 57 | 2040150036 | Nut / 2 |
| 26 | 2030100093 | Hook / 1 | 58 | 2030020116 | Washer Ø6xØ13x2 / 2 |
| 27 | 2030020403 | Hook Washer / 1 | 59 | 2020120049 | Aluminum Plate / 1 |
| 28 | 2050060283 | Spring / 1 | 60 | 4050040023 | Bolt L25 / 1 |
| 29 | 4020010218 | Screw M 4x11 / 2 | 61 | 2050060228 | Spring / 1 |
| 30 | 3150160293 | Hook Fixing Seat / 1 | 62 | 1180050051 | Ruler Knob / 1 |
| 31 | 4130010015 | Pin / 1 | 63 | 3110040015 | Angle Guide / 1 |
| 32 | 2050060282 | Spring / 1 | 64 | 2030270017 | Casing / 1 |
| | | | 65 | 4020010117 | Screw M 4x37 / 1 |

| KEY # | PART # | PART NAME / QUANTITY | KEY # | PART # | PART NAME |
|-------|------------|----------------------|-------|------------|-----------------------|
| 66 | 4050040024 | Bolt L88 / 1 | 73 | 2040140009 | Pin 45 Ø6*39 M5 / 1 |
| 67 | 1130030095 | Control Palte / 1 | 74 | 3110040014 | Scale Frame / 1 |
| 68 | 3150170020 | Eletrode Plate / 1 | 75 | 4010010034 | Screw M4x5 / 5 |
| 69 | 1290090046 | Battery / 1 | 76 | 2040160232 | Screw / 2 |
| 70 | 6210040013 | Ruler / 1 | 77 | 3180040132 | Dust Port Adapter / 1 |
| 71 | 4060090019 | Nut / 1 | 78 | 4020010049 | Screw M4x8 / 4 |
| 72 | 2030020141 | Washer Ø6x11x1 / 1 | | | |

WARRANTY

If this Benchmark tool fails due to a defect in material or workmanship within five years from the date of purchase, return it to any Home Hardware store with the original bill of sale for exchange. 3-year warranty for the battery and charger. This warranty does not include expendable parts including but not limited to blades, brushes, belts, light bulbs.

This warranty covers defects in material or workmanship only. It does not cover normal wear and tear, failure due to abuse/misuse, or defects caused by careless or accidental mishandling. If this Benchmark product is used for commercial or rental purposes, this warranty does not apply.

20V BRUSHLESS 7-1/4" CIRCULAR SAW

1239-102

20V BRUSHLESS 7-1/4" CIRCULAR SAW



5 Year Limited Warranty on tool

BENCHMARK™
Mc

BENCHMARK TOOLS CANADA

ST. JACOBS, ONTARIO N0B 2N0

© 2020 Home Hardware Stores Limited

CUSTOMER SERVICE/TECH SUPPORT

1-866-349-8665

1239-102

Made in China



* This Benchmark™ product carries a five (5) year LIMITED warranty against defects in workmanship and materials. The charger and batteries carry a three (3) year LIMITED warranty. See Owner's Manual for full details.



E114847
JD539220

**READ ALL INSTRUCTIONS BEFORE FIRST USE.
KEEP THIS MANUAL FOR FUTURE REFERENCE.
KEEP AWAY FROM CHILDREN.**

Maximum initial battery voltage (measured without a load)
is 20 volts. Nominal voltage is 18 volts.



**WEAR CSA APPROVED
EYE PROTECTION**



**WEAR EAR
PROTECTION**



**WEAR A
FACE MASK**

BENCHMARKTM_{MC}

20V MAX BRUSHLESS 1/2" HAMMER DRILL



LIMITED
5 YEAR*
WARRANTY

5 Year Limited Warranty
3 Year Limited Warranty on Battery and Charger
Battery & charger included where applicable



JD6286C20

**READ ALL INSTRUCTIONS BEFORE FIRST USE.
KEEP THIS MANUAL FOR FUTURE REFERENCE.
KEEP AWAY FROM CHILDREN.**

Maximum initial battery voltage (measured without a load)
is 20 volts. Normal voltage is 18 volts.



**WEAR CSA APPROVED
EYE PROTECTION**



**WEAR EAR
PROTECTION**



**WEAR A
FACE MASK**

PRODUCT SPECIFICATIONS

| HAMMER DRILL | |
|--------------------------------|-----------------------------------|
| Variable chuck speed | 0–600 RPM / 0–2,000 RPM (no load) |
| Variable hammer speeds | 0-7,920/0-29,700 BPM |
| Torque clutch positions | 20 + drill mode + hammer mode |
| Keyless chuck | ½" keyless metal |
| Max torque | 450 in/lbs. |
| Max drilling capacity in wood | 1" (25mm) |
| Max drilling capacity in metal | ½" (13mm) |
| Weight | 3.6lbs. (1.65kg) |

| BATTERY AND CHARGER | |
|----------------------------|--|
| Battery voltage | 20 V Max 2.5Ah Li-ion (Maximum charged battery voltage, measured without load, is 20V with a nominal value of 18V) |
| Replacement battery | 5350-023 (2.5Ah) Charge time – up to 75 minutes |
| Replacement charger | 5350-010 (2.4A) |

NEED ASSISTANCE?

Call us on our toll- free customer support line:
1-866-349-8665 (Monday through Friday 9am – 5pm Eastern Standard Time)

- Technical questions
- Replacement parts
- Parts missing from package

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GENERAL SAFETY WARNINGS

WARNING:

Before using this tool or any of its accessories, read this manual and follow all Safety Rules and Operating Instructions. The important precautions, safeguards and instructions appearing in this manual are not meant to cover all possible situations. It must be understood that common sense and caution are factors which cannot be built into the product.

EYE, EAR & LUNG PROTECTION

| SYMBOL | MEANING |
|--|---|
|   | <p>ALWAYS WEAR EYE PROTECTION THAT CONFORMS WITH CSA Z94.3 or ANSI SAFETY STANDARD Z87.1</p> <p>FLYING DEBRIS can cause permanent eye damage. Prescription eyeglasses ARE NOT a replacement for proper eye protection.</p> <p>Non-compliant eyewear can cause serious injury if broken during the operation of a power tool.</p> |
|   | <p>Use hearing protection, particularly during extended periods of operation of the tool, or if the operation is noisy.</p> |
|   | <p>WEAR A DUST MASK THAT IS DESIGNED TO BE USED WHEN OPERATING A POWER TOOL IN A DUSTY ENVIRONMENT.</p> <p>Dust that is created by power sanding, sawing, grinding, drilling, and other construction activities may contain chemicals that are known to cause cancer, birth defects, or other genetic abnormalities. These chemicals include:</p> <ul style="list-style-type: none"> • Lead from lead-based paints • Crystalline silica from bricks, cement, and other masonry products • Arsenic and chromium from chemically treated lumber. <p>The level of risk from exposure to these chemicals varies, according to how often this type of work is performed. In order to reduce exposure to these chemicals, work in a well-ventilated area, and use approved safety equipment, such as a dust mask that is specifically designed to filter out microscopic particles.</p> |
|   | <p>To avoid electrical hazards, fire hazards or damage to the tool, use proper circuit protection.</p> <p>This tool is wired at the factory for 120 Volts AC operation. It must be connected to a 120 Volts AC, 15 Amps circuit that is protected by a time-delayed fuse or circuit breaker. To avoid shock or fire, replace power cord immediately if it is worn, cut or damaged in any way.</p> |
|   | <p>Ventilation openings in batteries and chargers must always be open to allow cooling air to circulate freely. Air vents that are blocked, restricted, or covered may result in the battery or charger overheating. Overheating may lead to damage to the tool or cause a fire, resulting in possible serious injury.</p> |

GENERAL SAFETY RULES

⚠️ 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.

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 a ground fault circuit interrupter (GFCI) protected supply. Use of a ground fault circuit interrupter (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 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 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.

Hold power tools by insulated gripping surfaces when performing an operation where 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.

Hold power tool by insulated gripping surfaces, when performing an operation where the fastener may contact hidden wiring or its own cord. Fasteners contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.

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

⚠️ WARNING: Know your cordless hammer drill. Do not plug in the charger or install the battery in the tool until you have read and understand this Instruction Manual. Learn the tool's applications and limitations, as well as the specific potential hazards related to this tool. Following this rule will reduce the risk of electric shock, fire, or serious injury.



Always wear eye protection. Any power tool can throw foreign objects into your eyes and cause permanent eye damage. **ALWAYS** wear safety goggles (not glasses) that comply with ANSI safety standard Z87.1. Everyday glasses have only impact resistant lenses. They **ARE NOT** safety glasses.

⚠️ WARNING: Glasses or goggles not in compliance with ANSI Z87.1 could cause serious injury when they break.

⚠️ WARNING: Always use a safety shield, hearing protection and dust mask when drilling concrete.

⚠️ WARNING: To avoid fire or toxic reaction, never use gasoline, naphtha, acetone, lacquer thinner or similar highly volatile solvents to clean the tool.

⚠️ WARNING: Use only accessories that are recommended for this cordless drill. Follow the instructions that accompany the accessories. The use of improper accessories may result in injury to the operator or damage to the tool.

⚠️ WARNING: If any part is missing or damaged, do not plug the tool into the power source or install any accessory until the missing or damaged part is replaced.

Do not drill material too small to be securely held.

Always keep hands out of the path of the drill bit. Avoid awkward hand positions where a sudden slip could cause your hand to move into the path of the drill bit.

Secure the workpiece. Use clamps or a vice to hold the workpiece. It is safer than using your hand and it frees both hands to operate the tool.

Make sure there are no nails or foreign objects in the part of the workpiece to be drilled.

To avoid injury from accidental starting, always remove the battery from the tool before installing or removing a drill bit.

Do not install or use any drill bit that exceeds 7" (17.5 cm) in length or extends more than 6" (15 cm) beyond the chuck jaws. They can bend or break suddenly.

Before starting the operation, jog the drill switch to make sure the drill bit does not wobble or vibrate.

Do not use fly cutters or multiple-part hole cutters, because they can come apart or become unbalanced during use.

Make sure the spindle has come to a complete stop before touching the chuck or attempting to change the drill bit.

Always make sure the chuck is tight and the drill bit firmly tightened in the chuck before starting drill.

BATTERY & CHARGER SAFETY

⚠️ WARNING: Only use the charger supplied with this kit to charge the 20V Li-ion batteries for this tool. Charging any other batteries may damage the charger and possibly cause serious injury.

Do not store or carry the battery in a manner in which metal objects could contact the exposed metal end. Do not place the battery in aprons, pockets, drawers, etc. with loose nails, screws, keys etc. The battery could short circuit causing a fire, personal injury, or damage to the battery.

Never attempt to open the battery for any reason. If the housing of the battery breaks or cracks, immediately discontinue use and do not recharge.

Do not charge the battery if it is wet or shows any evidence of corrosion.

A small leakage from the battery may occur under extreme usage, charging or temperature conditions. This does not indicate a failure. However, if the outer seal is broken and this leakage gets on your skin, follow these steps:

1. Wash immediately with soap and water.
2. Neutralize with a mild acid such as lemon juice or vinegar.
3. If liquid gets into your eyes, flush immediately with clean water for a minimum of 10 minutes and seek medical attention.

NOTE: The battery liquid is slightly acidic.

Do not incinerate the battery. It can explode in a fire.

Do not use an extension cord. Plug the charger cord directly into an electrical outlet.

Use the charger only in a standard 120V, 60 Hz electrical outlet.

Do not use the charger in wet or damp conditions. It is intended for indoor use only. Do not use the charger near sinks or tubs. Do not immerse the charger in water.

Do not allow the cord to hang over the edge of a table or counter or touch hot surfaces.

The charger should be placed away from sinks and hot surfaces.

Do not use the charger to charge any batteries other than the cordless drill batteries. Other batteries may explode.

Do not allow the cord to hang over the edge of a table or counter or touch hot surfaces. The charger should be placed away from sinks and hot surfaces.

Do not operate charger if the cord or plug is damaged. Replace the damaged cord and plug immediately.

Do not operate the charger if it has received a sharp blow, been dropped or otherwise damaged in any way. Have a qualified technician examine the charger and repair it if necessary. Do not disassemble the charger.

Do NOT charge the batteries when the work area or the battery temperature is at or below 5° C (41° F) or above 40.5° C (105° F).

Unplug the charger when not in use and before cleaning or maintenance.

BATTERY PACK RECYCLING



To preserve our natural resources, please recycle or dispose of batteries properly. The batteries charged by this charger may contain chemicals and metals that are harmful to the environment. Never dispose of rechargeable batteries in your normal household garbage or in landfill sites as they will add to the pollution of the environment.

SYMBOLS

⚠️ WARNING: Some of the following symbols may appear on the drill. Study these symbols and learn their meaning. Proper interpretation of these symbols will allow for more efficient and safer operation of this tool.

| | | | |
|-------------------|---------------------------------|-------------------|---|
| V | Volts | $3\tilde{n}$ | Three-phase alternating current with neutral |
| A | Amperes | | Read all documentation |
| Hz | Hertz | $\equiv - \equiv$ | Direct current |
| W | Watts | n_0 | No load speed |
| kW | Kilowatts | | Alternating or direct current |
| μF | Microfarads | | Class II Construction |
| L | Litres | | Splash-proof construction |
| kg | Kilograms | | Watertight construction |
| H | Hours | | Protective grounding at terminal, Class I tools |
| N/cm ² | Newtons per square centimetre | .../min | Revolutions or reciprocations per minute |
| Pa | Pascals | \emptyset | Diameter |
| OPM | Oscillation per minute | 0 | Off position |
| Min | Minutes | | Directional Arrow |
| S | Seconds | | Warning symbol |
| \sim or AC | Alternating current | | Wear eye protection |
| $3\tilde{n}$ | Three-phase alternating current | | Wear hearing protection |



JD6286C20

This symbol designates that this tool is listed with Canadian and U.S. requirements by ETL Testing Laboratories, Inc. Conforms to UL Std. UL 60745-1 and 60745-2-1 60745-2-2. Certified to CAN/CSA Std. C22.2 No. 60745-1 and 60745-2-1 60745-2-2.

KNOW YOUR BENCHMARK 20V MAX BRUSHLESS 2VSR HAMMER DRILL



Battery Charger
5350-010









ASSEMBLY AND OPERATION

CHECKING THE BATTERY CHARGE STATUS

The level of charge remaining in the battery can be checked by using the battery LED power indicator that is contained on the end of the battery.

NOTE: The battery charge remaining may be checked while the battery is installed in the tool with the ON/OFF switch turned OFF. It may also be checked while the battery is removed from the tool. **DO NOT** check the battery charge remaining while the battery is in the charger. You will get a false reading and you may also damage the battery status system.

1. Press and hold the battery status button located on the end of the battery.
2. One or more of the Four LED lights in the LED window will come ON to indicate the amount of charge that is remaining in the battery as follows:

| | | | | | | |
|----------------------------|---|---|---|---|---|--|
| Charge Level Indicator |  |  |  |  |  |  |
| Amount of Charge Remaining | 0 - 10% | 10 - 25% | 25 - 50% | 50 - 75% | 75 - 100% | |

3. Release the battery status button to turn the LEDs OFF.

CHARGING THE BATTERY PACK

1. Place the battery charger (1) in a dry location near a 110–120V 60 Hz
2. Plug the battery charger into the outlet and make sure the green LED indicator light (5) comes ON. If it does not, refer to the chart (Fig. 2) to identify the problem.
3. Turn the battery (2) upside down and slide it onto the charger.

NOTE: Make sure the grooves (3) in the sides of the battery slide over the matching tabs on the charger (4) until the battery latch “clicks” into place.

NOTES:

1. When the charger is plugged into the wall receptacle and NO battery is on the charger, the green indicator light (5) will turn ON indicating the charger is “live”.
2. When a discharged battery is installed on the charger, the green indicator light will turn OFF and the red indicator light (6) will turn ON. The red indicator light indicates the battery is being charged.
3. If the red indicator light does not come ON, check to make sure battery pack is slid fully onto the charger and the electrical outlet is working properly.
4. See Fig. 2 below for other indicator light functions.
5. A discharged battery pack should be fully charged in approximately 2 hrs.
6. It is normal for the battery charger to hum and be warm to the touch during operation.
7. If the battery pack does not charge properly, check to make sure the electrical outlet is “live”.
8. Do NOT charge batteries when the work area or the battery temperature is at or below 5°C / 41°F or above 40.5°C / 105°F.



Fig. 1

| GREEN LIGHT | RED LIGHT | BATTERY INSERTED INTO CHARGER | CHARGING STATUS |
|-------------|-----------|-------------------------------|---|
| ON | OFF | NO | Charger connected to power supply |
| OFF | Blink | YES | Battery being charged |
| ON | OFF | YES | Battery fully charged |
| OFF | ON | YES | Battery is charged but not operational on tool. This may indicate defective / bad contact on battery. |
| ON | ON | YES | Charging conditions are either too hot or too cold |

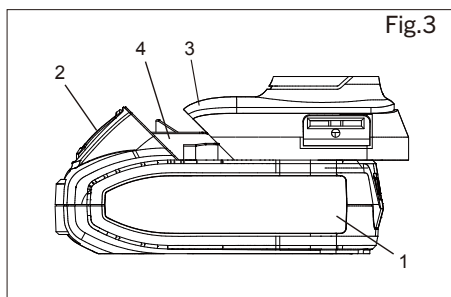
Fig. 2

INSTALLING A BATTERY ON THE HAMMER DRILL

1. Remove the discharged battery (1) from the drill by pressing downward on the battery release button (2) and sliding the battery backward until it is removed from the drill handle (3) (Fig. 3).
2. Slide the fully charged battery onto the matching keys (4) in the drill handle where the discharged battery has been removed.

NOTE: Make sure the slots in the battery are fully engaged with the mounting keys in the drill handle. The battery release button will “click” into place when the battery is fully installed.

⚠ WARNING: Do not immerse the battery pack in water. Sudden cooling could cause a hot battery to explode or leak.



ADJUSTING THE TORQUE

Your drill is equipped with an adjustable torque clutch for driving different types of screws into different types of materials. It also has a setting for “drilling” and “hammer drilling”.

The proper setting depends upon the type of material, the size of screw being used, and the function required.

Adjust the torque setting as follows:

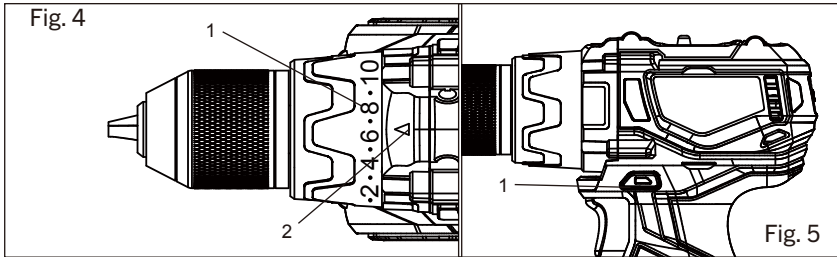
1. Identify the torque settings located on the torque adjustment ring (1) (Fig. 4).
2. Rotate adjustment ring to align the correct torque setting number with the torque indicator arrow (2). See the chart below for the correct torque settings.
 - 1–4 For driving small screws.
 - 5–8 For driving medium sized screws into soft materials.
 - 9–14 For driving screws into soft & medium-density materials.
 - 15–20 For driving screws into hardwood, and for driving larger screws.
 - For drilling. This position is marked with a drill bit icon on the torque adjustment ring.
 - Use the highest setting indicated by the hammer icon for hammer mode on the torque adjustment ring.

FORWARD/REVERSE SWITCH

The forward/reverse switch (1) is conveniently mounted above the trigger switch (2) (Fig. 5). To make the drill rotate clockwise (for drilling) push the forward/reverse switch to the left. To make the drill rotate counter clockwise for removing screws, push the forward/reverse switch to the right.

NOTES:

- a) Never change the position of the forward/reverse switch while the chuck is turning.
- b) The trigger switch will NOT function with the forward/reverse switch in the middle position.



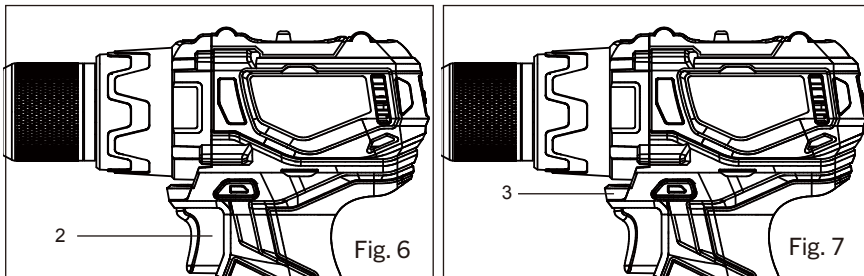
VARIABLE-SPEED TRIGGER SWITCH

This drill is equipped with a variable-speed ON/OFF trigger switch.

1. To start drill, gently squeeze the trigger switch (2) (Fig. 6).

NOTE: The drill will turn at its slowest speed when the trigger switch is depressed slightly. The drill will turn at its fastest speed when the trigger switch is fully depressed.

2. To stop the drill, release the trigger switch.



NOTE: Drilling at a slow speed for an extended period of time may cause the drill motor or the battery pack to overheat. If either the drill or the battery gets hot, stop drilling and allow them to cool for at least 15 minutes.

LED WORK LIGHT

The LED work light (3) will automatically turn ON when the trigger switch is squeezed (Fig. 7). It will automatically turn OFF when the trigger switch is released.

NOTE: The LED light has a 20 second time delay.

TWO-SPEED GEAR BOX SWITCH

The two-speed gear box switch is located on the top of the drill housing. Set the speed-control switch to the desired speed before starting the drill. Slide the speed-control switch FORWARD.

(Fig. 8a) for low-speed operation. Slide the speed control-switch BACK (Fig. 8b) for high-speed operation.

NOTES:

- a) Use low-speed setting for drilling large holes and for driving screws.
- b) Use high-speed setting for drilling smaller holes.
- c) Do NOT change the speed-control switch position while drill is turned ON. Damage to the gears may result.

INSTALLING DRILL BITS

⚠ WARNING: Never hold the chuck body with one hand and use the drill power to rotate the drill body to loosen or tighten bits. Serious injury may result.

This drill is equipped with a keyless chuck.

1. To open the keyless drill chuck, grasp and hold the chuck (1) with one hand (Fig. 9), and rotate in a counterclockwise direction until the chuck jaws (2) open wide enough to accept the bit (3).
2. Insert the bit into the chuck the full length of the jaws. Raise the front of your drill slightly to prevent the bit from falling out of the chuck jaws.
3. Tighten the chuck jaws onto the bit by turning the chuck body in a clockwise direction.

NOTE: Make sure the bit is properly aligned in the jaws and NOT at an angle. An improperly aligned bit could be thrown from the chuck when drill is started. Make sure flat sides of the screwdriver bit are being grasped by the chuck jaws.

4. Finish tightening the chuck jaws by holding the chuck collar with one hand and firmly tightening the chuck body by rotating it in a clockwise direction.

NOTE: Hand tighten the chuck jaws. Do NOT use pliers. You will damage the chuck.

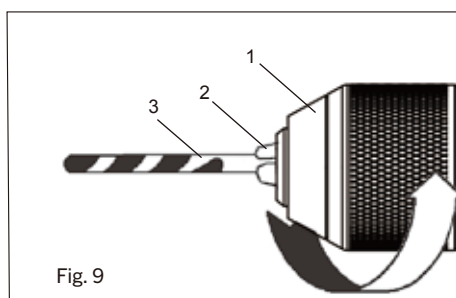
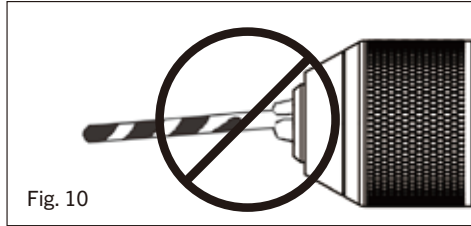


Fig. 9

⚠ WARNING: Do not insert the drill bit into the chuck and tighten as shown in Fig. 10. The drill bit MUST be properly inserted with all three of the chuck jaws holding the bit centered in the chuck. Failure to properly insert the drill bit could cause the drill bit to be thrown from the chuck, resulting in possible serious injury or damage to the chuck.



REMOVING BITS

1. To open the keyless drill chuck, grasp and hold the chuck body and rotate it in a counterclockwise direction until the chuck jaws open wide enough to release the bit.
2. Remove the drill bit.

⚠ WARNING: For safety reasons, the operator must read the sections of this Owner's Manual entitled "GENERAL SAFETY WARNINGS", "POWER TOOL SAFETY", "SPECIFIC SAFETY RULES", "BATTERY & CHARGER SAFETY" and "SYMBOLS" before using this cordless drill.

Verify the following every time the cordless drill is used:

1. Safety glasses, safety goggles, or face shield is being worn.
2. Hearing protection is being worn.
3. The chuck has not worked loose on the spindle.
4. The bit is in good condition and is properly tightened onto the chuck.

Failure to observe these safety rules will significantly increase the risk of injury.

DRILLING

When drilling into smooth, hard surfaces such as metal, use a center punch to mark the desired hole location. This will prevent the drill bit from slipping off center as the hole is started.

The workpiece to be drilled should be secured in a vice or with clamps to keep it from turning as the drill bit rotates (Fig. 11).

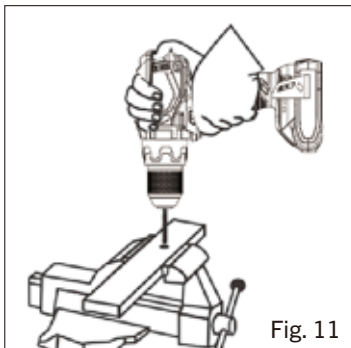
1. Check the drill bit to make sure it is firmly locked into the drill chuck and verify that the forward/reverse switch is in the forward position.
2. Set the torque clutch to the drilling position.
3. Hold the drill firmly with both hands whenever possible. Use one hand to grasp the handle and switch.

NOTE: Make sure the hand placed on the body of the drill does not cover the air vents. Covering these air vents will reduce motor cooling, and possibly lead to overheating the motor.

4. While holding the drill firmly, place the point of the drill bit at the point to be drilled. Squeeze the switch trigger to start the drill.

NOTES: Always use a higher drill speed when drilling small holes. Use a slower drill speed when drilling large holes.

5. Move the drill bit into the workpiece applying only enough pressure to keep the bit cutting. Do not force the drill bit or apply sideways pressure to elongate the hole.



⚠ WARNING: Be prepared for binding and bit breakthrough. When these situations occur, the drill bit has a tendency to grab the workpiece. This action will kick the drill opposite to the direction of the drill bit rotation and could cause loss of control when breaking through material as you complete drilling the hole. If you are not prepared, this loss of control can result in serious injury.

When drilling metals, use light oil on the drill bit to keep it from overheating. The oil will prolong the life of the drill bit and improve the cutting action. If the bit jams in the workpiece, or if the drill stalls, release the trigger switch immediately. Remove the bit from the workpiece and determine the reason for jamming.

DRIVING SCREWS

When driving screws, care must be taken to use the bit that correctly fits the screw being driven. Make sure you use the largest bit size that will properly fit into the head of the screw.

1. Select the correct screwdriver bit for the screw being driven.
2. Fasten the screwdriver bit into the chuck, making sure the flat sides of the bit are gripped by the chuck jaws.
3. Set the torque clutch to the appropriate setting.

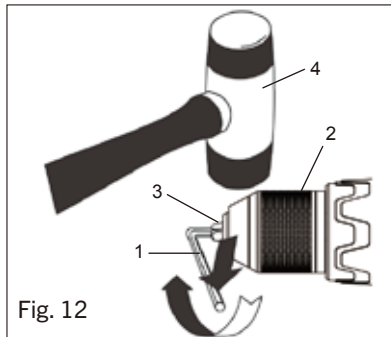
NOTE: If the workpiece material is particularly soft or porous, set the torque clutch to a lower setting to avoid overdriving the screw.

4. If the screw is driven too far into the workpiece before the clutch releases, set the clutch to a lower setting, and do not pull the trigger switch fully back. If the screw is not driven far enough into the workpiece, set the clutch to a higher setting.

NOTE: Do not continue to drive the screw once the clutch has released. This causes unnecessary wear of the clutch.

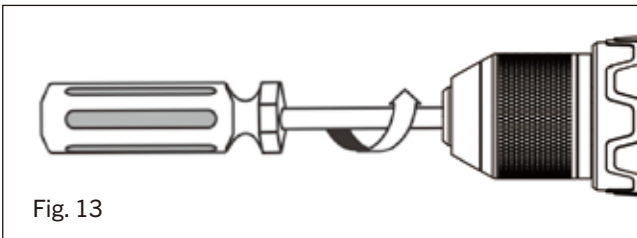
REMOVING THE CHUCK

1. Remove the battery pack from the drill.
2. Insert a 5/16" (8 mm) or larger hex key (1) into the chuck (2) and tighten the chuck jaws securely (Fig. 12). Make sure each of the chuck jaws (3) is seated on the flat surfaces of the hex key.
3. Tap the hex key sharply with a mallet (4) in a CLOCKWISE direction. This action will loosen the screw in the chuck for easy removal.
4. Open chuck jaws and remove the hex key.



5. Open the chuck jaws as far as possible.
6. Remove the chuck screw using a #2 ⊕ screwdriver (Fig. 13).


NOTE: Turn the screw CLOCKWISE to remove it. This screw has a left-handed thread.

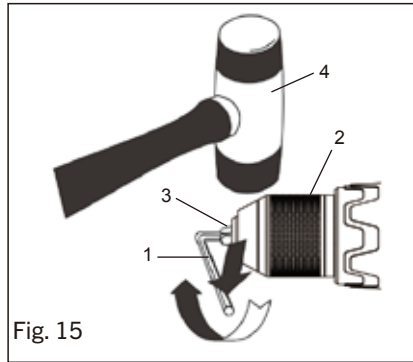
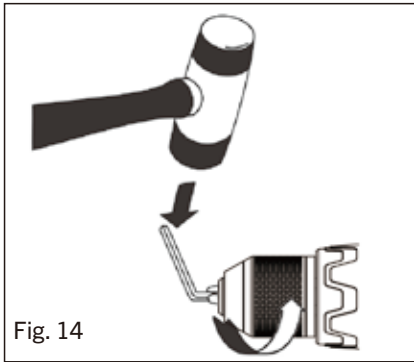


7. Insert the hex key into the chuck and tighten jaws of chuck securely (Fig. 14). Tap the hex key sharply with a mallet in a COUNTER-CLOCKWISE direction. This will loosen the chuck on the spindle. The chuck can now be unscrewed and removed from the spindle by hand.

RETIGHTENING A LOOSE CHUCK

1. Remove the battery pack from the drill.
2. Insert a 5/16" (8 mm) or larger hex key (1) into the chuck (2) and tighten the chuck jaws securely (Fig. 15). Make sure each of the chuck jaws (3) is seated on the flat surfaces of the hex key.


3. Tap the hex key sharply with a mallet (4) in a CLOCKWISE direction. This action will loosen the screw in the chuck for easy removal.
4. Open the chuck jaws and remove the hex key.
5. Tighten the chuck screw using a #2  screwdriver (Fig. 13).




NOTE: Turn the screw COUNTER-CLOCKWISE to tighten it. This screw has a left-handed thread.

MAINTENANCE


GENERAL

 **WARNING:** When servicing, use only identical replacement parts. The use of any other part may create a hazard or cause product damage.

DO NOT use solvents when cleaning plastic parts. Plastics are susceptible to damage from various types of commercial solvents and may be damaged by their use. Use a clean cloth to remove dirt, dust, oil, grease, etc.

 **WARNING:** Do not allow brake fluids, gasoline, petroleum-based products, penetrating oils, etc. to come into contact with plastic parts. They contain chemicals that can damage, weaken or destroy plastic.

DO NOT abuse power tools. Abusive practices can damage the tool and the workpiece.

 **WARNING:** DO NOT attempt to modify tools or create accessories. Any such alteration or modification is misuse and could result in a hazardous condition leading to possible serious injury. It will also void the warranty.

LUBRICATION


All of the bearings in this tool are lubricated with a sufficient amount of high-grade lubricant for the life of the unit under normal conditions. Therefore, no further lubrication is required.

BATTERY PACK REMOVAL AND PREPARATION FOR RECYCLING

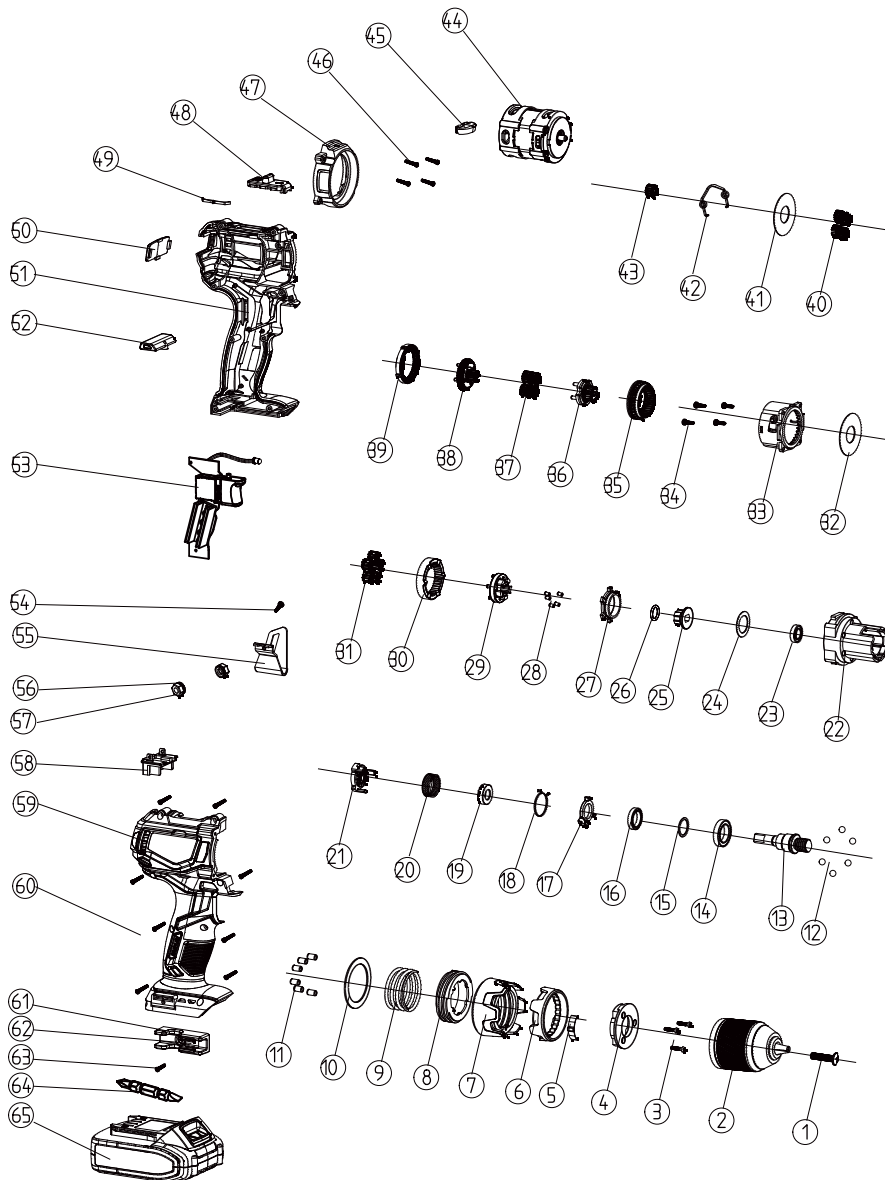
To preserve our natural resources, please recycle or dispose of batteries properly.

The batteries accompanying this tool may contain chemicals and metals that are harmful to the environment. Never dispose of rechargeable batteries in your normal household garbage or in landfill sites, because they will add to the pollution of the environment.

Consult your local waste authority for information regarding available recycling and disposal options.

 **WARNING:** Upon removal of the battery pack, cover the terminals of the battery pack with electrical tape or heavy-duty tape. Never touch both terminals with metal objects or parts, because a short circuit may result. Keep away from children. Do not attempt to destroy or disassemble battery pack or remove any of its components. Rechargeable batteries must be recycled or disposed of properly.

EXPLODED VIEW



PARTS LIST

⚠ WARNING: When servicing, use only original equipment replacement parts. The use of any other parts may create a safety hazard or cause damage to the drill. Any attempt to repair or replace electrical parts on this drill may create a safety hazard unless repairs are performed by a qualified technician. For more information, call the Toll-free Helpline, at 1-866-349-8665; Monday - Friday: 9am to 5pm EST.

Always order by key number.

| Key # | Part # | Part Name | Quantity |
|-------|------------|---------------------|----------|
| 1 | 4020030020 | Chuck screw | 1 |
| 2 | 1140050026 | Chuck | 1 |
| 3 | 4030010130 | Tapping screw | 3 |
| 4 | 2020210010 | Compressing plate | 1 |
| 5 | 2050070063 | Positioning spring | 1 |
| 6 | 3110010237 | Decoration plate | 1 |
| 7 | 3120080135 | Torque setting ring | 1 |
| 8 | 3150190181 | Inner threaded ring | 1 |
| 9 | 2050060217 | Spring | 1 |
| 10 | 2030020317 | Washer | 2 |
| 11 | 4110040014 | Needle roller | 6 |
| 12 | 4080060001 | Needle roller | 6 |
| 13 | 2040050152 | Shaft | 1 |
| 14 | 4010010135 | Axletree | 1 |
| 15 | 2030020319 | Washer | 1 |
| 16 | 4010010002 | Axletree | 1 |
| 17 | 2010150049 | Impact bracket | 1 |
| 18 | 2050050050 | Spring | 1 |
| 19 | 2010100031 | Upper Impact Block | 1 |
| 20 | 2050060224 | Spring | 1 |
| 21 | 2010100032 | Lower Impact Block | 1 |
| 22 | 3150070091 | Gear box | 1 |
| 23 | 4010010137 | Axletree | 1 |
| 24 | 2030020214 | Washer | 1 |
| 25 | 2010230012 | Driving block | 1 |
| 26 | 3140060071 | O ring | 1 |
| 27 | 2040310058 | Shaft lock ring | 1 |
| 28 | 4110020037 | Needle roller | 5 |
| 29 | 1170070086 | Planetary carrier | 1 |

| Key # | Part # | Part Name | Quantity |
|-------|------------|-----------------------|----------|
| 30 | 2010090077 | Gearing ring | 1 |
| 31 | 2010010122 | Planetary gear | 4 |
| 32 | 2030020023 | Washer | 1 |
| 33 | 3150080024 | H/L speed switch box | 1 |
| 34 | 4030010003 | Tapping screw | 4 |
| 35 | 2010090076 | Moveable ring gear | 1 |
| 36 | 1170070093 | Planetary carrier | 1 |
| 37 | 2010010120 | Planetary gear | 4 |
| 38 | 1170070085 | Planetary carrier | 1 |
| 39 | 2010090075 | Fixed ring gear | 1 |
| 40 | 2010010121 | Planetary gear | 4 |
| 41 | 2030020242 | Washer | 1 |
| 42 | 2050080180 | 2-speed lever | 1 |
| 43 | 2010010119 | Motor Gear | 1 |
| 44 | 1030300014 | Brushless motor | 1 |
| 45 | 3160060085 | lens | 1 |
| 46 | 4030010253 | Tapping screw | 4 |
| 47 | 3110010237 | Decoration plate | 1 |
| 48 | 3120120142 | Speed selector button | 1 |
| 49 | 2050070002 | Lever | 1 |
| 50 | 3110010235 | The tail of high | 1 |
| 51 | 3010010194 | Left housing | 1 |
| 52 | 3120030133 | FWD/REV lever | 1 |
| 53 | 1130030106 | control circuit board | 1 |
| 54 | 4020010168 | Tapping screw | 1 |
| 55 | 2030100070 | Belt buckle | 1 |
| 56 | 4040080003 | Lock washer | 2 |
| 57 | 4060010039 | Hexagon nut | 2 |
| 58 | 3150170016 | Contact plate | 1 |
| 59 | 3010010194 | Right housing | 1 |
| 60 | 4030010253 | Tapping screw | 7 |
| 61 | 3150200008 | bit shelf | 1 |
| 62 | 2030090039 | bit clip | 1 |
| 63 | 4020010168 | Tapping screw | 1 |
| 64 | 6200070001 | bit | 1 |
| 65 | 1290090019 | Battery Pack | 1 |

WARRANTY

BENCHMARK WARRANTY FOR 20V 2VSR MAX DRILL

If this Benchmark tool fails due to a defect in material or workmanship within five years from the date of purchase, return it to any Home Hardware store with the original bill of sale for exchange. Three year warranty for the battery and charger. This warranty does not include expendable parts including but not limited to blades, brushes, belts, light bulbs.

This warranty covers defects in material or workmanship only. It does not cover normal wear and tear, failure due to abuse/misuse, or defects caused by careless or accidental mishandling. If this Benchmark product is used for commercial or rental purposes, this warranty does not apply.

20V MAX BRUSHLESS 1/2" HAMMER DRILL

1239-102

20V MAX BRUSHLESS 1/2" HAMMER DRILL



5 Year Limited Warranty

3 Year Limited Warranty on Battery and Charger

BENCHMARK™
MC

BENCHMARK TOOLS CANADA

ST. JACOBS, ONTARIO N0B 2N0

© 01 / 2021 Home Hardware Stores Limited

CUSTOMER SERVICE/TECH SUPPORT

1-866-349-8665

1239-102

Made in China



* This Benchmark™ product carries a five (5) year LIMITED warranty against defects in workmanship and materials. The charger and batteries carry a three (3) year LIMITED warranty. See Owner's Manual for full details.



JD6286C20

**READ ALL INSTRUCTIONS BEFORE FIRST USE.
KEEP THIS MANUAL FOR FUTURE REFERENCE.
KEEP AWAY FROM CHILDREN.**

Maximum initial battery voltage (measured without a load)
is 20 volts. Normal voltage is 18 volts.



**WEAR CSA APPROVED
EYE PROTECTION**



**WEAR EAR
PROTECTION**



**WEAR A
FACE MASK**

BENCHMARKTM MC

20V MAX BRUSHLESS 1/4" IMPACT DRIVER



5 Year Limited Warranty
3 Year Limited Warranty on Battery and Charger
Battery & charger included where applicable



Intertek
3042597
JD509620

**READ ALL INSTRUCTIONS BEFORE FIRST USE.
KEEP THIS MANUAL FOR FUTURE REFERENCE.
KEEP AWAY FROM CHILDREN.**

Maximum initial battery voltage (measured without a load)
is 20 volts. Nominal voltage is 18 volts.



**WEAR CSA APPROVED
EYE PROTECTION**



**WEAR EAR
PROTECTION**



**WEAR A
FACE MASK**

PRODUCT SPECIFICATIONS

| 20V MAX BRUSHLESS 2VSR DRILL | |
|-------------------------------------|--|
| 2 Variable Speeds | 0–2,400 / 0-2600 RPM (no load) |
| 2 Variable Impact Speed | 0–2,700/ 0-3,000 BPM |
| Torque | 1,800 in/lbs (158 Nm) maximum |
| Hex drive | Quick release 1/4" (6.35 mm) |
| Weight | 3.5lbs (1.57kg) |
| Battery | 20V 2.5Ah Max* Li-ion (Maximum charged battery voltage, measured without load, is 20V with a nominal value of 18V) |
| Replacement Battery | 5350-023 (2.5Ah) |
| Replacement Charger Assembly | 5350-010 (2.4A) up to 75minutes charge time |

NEED ASSISTANCE?

Call us on our toll-free customer support line:
1-866-349-8665 (Monday through Friday 9am – 5pm Eastern Standard Time)

- Technical questions
- Replacement parts
- Parts missing from package





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GENERAL SAFETY INSTRUCTIONS

⚠️ WARNING: Before using this tool or any of its accessories, read this manual and follow all Safety Rules and Operating Instructions. The important precautions, safeguards and instructions appearing in this manual are not meant to cover all possible situations. It must be understood that common sense and caution are factors which cannot be built into the product.

EYE, EAR & LUNG PROTECTION

| SYMBOL | MEANING |
|--|--|
| <p>⚠️ DANGER</p>  | <p>ALWAYS WEAR EYE PROTECTION THAT CONFORMS WITH CSA Z94.3 or ANSI SAFETY STANDARD Z87.1</p> <p>FLYING DEBRIS can cause permanent eye damage. Prescription eyeglasses ARE NOT a replacement for proper eye protection. The usage of a safety standard compliant face shield placed over proper safety glasses or goggles can reduce the risk of facial injury. Non-compliant eyewear can cause serious injury if broken during the operation of a power tool.</p> |
| <p>⚠️ WARNING</p>  | <p>Use hearing protection, particularly during extended periods of operation of the tool, or if the operation is noisy.</p> |
| <p>⚠️ WARNING</p>  | <p>WEAR A DUST MASK THAT IS DESIGNED TO BE USED WHEN OPERATING A POWER TOOL IN A DUSTY ENVIRONMENT.</p> <p>Dust that is created by power sanding, sawing, grinding, drilling, and other construction activities may contain chemicals that are known to cause cancer, birth defects,</p> <p>or other genetic abnormalities. These chemicals include:</p> <ul style="list-style-type: none"> • Lead from lead-based paints • Crystalline silica from bricks, cement, and other masonry products • Arsenic and chromium from chemically treated lumber <p>The level of risk from exposure to these chemicals varies, according to how often this type of work is performed. In order to reduce exposure to these chemicals, work in a well-ventilated area, and use approved safety equipment, such as a dust mask that is specifically designed to filter out microscopic particles.</p> |
| <p>⚠️ WARNING</p>  | <p>TO AVOID ELECTRICAL HAZARDS, FIRE HAZARDS OR DAMAGE TO THE TOOL, USE PROPER CIRCUIT PROTECTION.</p> <p>This tool is wired at the factory for 120 V AC operation. It must be connected to a 120 V AC, 15 A circuit that is protected by a time-delayed fuse or circuit breaker. To avoid shock or fire, replace power cord immediately if it is worn, cut or damaged in any way.</p> |

⚠ WARNING

WARNING: Ventilation openings in batteries and chargers must always be open to allow cooling air to circulate freely. Air vents that are blocked, restricted or covered may result in the battery or charger overheating. Overheating may lead to damage to the tool or cause a fire, resulting in possible serious injury.

POWER TOOL SAFETY

⚠ 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.

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 a ground fault circuit interrupter (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 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 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.

Hold power tool 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.

Hold power tool by insulated gripping surfaces, when performing an operation where the fastener may contact hidden wiring or its own cord.

Fasteners contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.

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 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 fire.

Under abusive conditions, liquids 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

⚠️ WARNING: Know your cordless impact driver. Do not plug in the charger or install the battery in the tool until you have read and understand this Instruction Manual. Learn the tool's applications and limitations, as well as the specific potential hazards related to this tool. Following this rule will reduce the risk of electric shock, fire, or serious injury.



Always wear eye protection. Any power tool can throw foreign objects into your eyes and cause permanent eye damage. ALWAYS wear safety goggles (not glasses) that comply with ANSI safety standard Z87.1. Everyday glasses have only impact resistant lenses. They ARE NOT safety glasses.

⚠️ WARNING: Glasses or goggles not in compliance with ANSI Z87.1 could cause serious injury when they break.

⚠️ WARNING: Always use a safety shield, hearing protection and dust mask when drilling concrete.

⚠️ WARNING: To avoid fire or toxic reaction, never use gasoline, naphtha, acetone, lacquer thinner or similar highly volatile solvents to clean the tool.

⚠️ WARNING: Use only accessories that are recommended for this cordless drill. Follow the instructions that accompany the accessories. The use of improper accessories may result in injury to the operator or damage to the tool.

⚠️ WARNING: If any part is missing or damaged, do not plug the tool into the power source or install any accessory until the missing or damaged part is replaced.

Use impact sockets and accessories that are designed for use with an impact driver. Do not use chrome plated sockets and accessories. Chrome plated sockets and accessories are designed for hand use only and **MUST NOT** be used with an impact driver. They may shatter and possibly cause serious injury.

Before each use, check the impact sockets and accessories for excessive wear or cracks. Worn or damaged sockets or accessories may shatter and possibly cause serious injury. Worn accessories may allow the socket to come off during operation of the impact driver.

After installing any accessory in the hex drive, pull outward on the accessory to ensure it is properly installed and cannot be pulled out of the hex drive.

Never use the impact driver as a torque wrench. Always use a torque wrench to adjust the fastener to the specified torque.

Keep the impact driver handle and body clean and free of oil and grease. Always use a clean dry cloth when cleaning. Do not use solvents, brake fluid, gasoline or other petroleum products to clean the tool. They will damage the tool.

Do not wear neckties or loose clothing.

When wearing gloves, they must be tight fitting and slip resistant type. Leather gloves offer the best protection.

Always use two hands when operating the impact driver. Use one hand on the handle and the other on the front of the tool body.

Never place your hand so it is touching the nut driver or accessory when the tool is turned ON. Your hand could be seriously injured.

Always remove the plug from the power source before installing or removing any socket or accessory.

Be ready for components to shift when removing any fastener. The speed of the fastener removal could cause unexpected shifting of the components.

BATTERY & CHARGER SAFETY

⚠️ WARNING: Only use the charger supplied with this kit to charge the 20V Max* Li-ion batteries for this tool. Charging any other batteries may damage the charger and possibly cause serious injury.

Do not store or carry the battery in a manner in which metal objects could contact the exposed metal end. Do not place the battery in aprons, pockets, drawers, etc. with loose nails, screws, keys etc. The battery could short circuit causing a fire, personal injury, or damage to the battery.

Never attempt to open the battery for any reason. If the housing of the battery breaks or cracks, immediately discontinue use and do not recharge.

Do not charge the battery if it is wet or shows any evidence of corrosion.

A small leakage from the battery may occur under extreme usage, charging or temperature conditions. This does not indicate a failure. However, if the outer seal is broken and this leakage gets on your skin, follow these steps:

1. Wash immediately with soap and water.
2. Neutralize with a mild acid such as lemon juice or vinegar.
3. If liquid gets into your eyes, flush immediately with clean water for a minimum of 10 minutes and seek medical attention.

NOTE: The battery liquid is slightly acidic.

Do not incinerate the battery. It can explode in a fire.

Do not use an extension cord. Plug the charger cord directly into an electrical outlet.

Use the charger only in a standard 120V, 60 Hz electrical outlet.

Do not use the charger in wet or damp conditions. It is intended for indoor use only. Do not use the charger near sinks or tubs. Do not immerse the charger in water. Do not allow the cord to hang over the edge of a table or counter or touch hot surfaces.

The charger should be placed away from sinks and hot surfaces.

Do not use the charger to charge any batteries other than the cordless drill batteries. Other batteries may explode.

Do not allow the cord to hang over the edge of a table or counter or touch hot surfaces. The charger should be placed away from sinks and hot surfaces.

Do not operate charger if the cord or plug is damaged. Replace the damaged cord and plug immediately.

Do not operate the charger if it has received a sharp blow, been dropped or otherwise damaged in any way. Have a qualified technician examine the charger and repair it if necessary. Do not disassemble the charger.

Do NOT charge the batteries when the work area or the battery temperature is at or below 0° C (32° F) or above 45° C (113° F).

Unplug the charger when not in use and before cleaning or maintenance.

BATTERY PACK RECYCLING


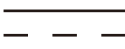














To preserve our natural resources, please recycle or dispose of batteries properly.

The batteries charged by this charger may contain chemicals and metals that are harmful to the environment. Never dispose of re-chargeable batteries in your normal household garbage or in landfill sites as they will add to the pollution of the environment.

SYMBOLS

⚠️ WARNING: Some of the following symbols may appear on the impact driver. Study these symbols and learn their meaning. Proper interpretation of these symbols will allow for more efficient and safer operation of this tool.

| | | | |
|---|---------------------------------|---|---|
| V | VOLTS |  | Three-phase alternating current with neutral |
| A | Amperes |  | Direct current |
| Hz | Hertz | n_0 | No load speed |
| W | Watts |  | Alternating or direct current |
| kW | Kilowatts |  | Class II construction |
| µF | Microfarads |  | Splash-proof construction |
| L | Liters |  | Watertight construction |
| kg | Kilograms |  | Protective grounding at grounding terminal, Class I tools |
| H | Hours | \dots/min | Revolutions or reciprocations per minute |
| N/cm² | Newtons per square centimeter | \emptyset | Diameter |
| Pa | Pascals | 0 | Off position |
| OPM | Oscillations per minute |  | Arrow |
| MIN | Minutes |  | Warning symbol |
| S | Seconds |  | Wear your safety glasses |
|  or ac. | Alternating current |  | Wear a dust mask |
|  3 | Three-phase alternating current |  | Wear hearing protection |



Intertek
3042597
JD509620

This symbol designates that this tool is listed with Canadian and U.S. requirements by ETL Testing Laboratories, Inc. Conforms to UL Std. 60745-1 and 60745-2-11. Certified to CAN/CSA Std. C22.2 No. 60745-1 and 60745-2-11.

KNOW YOUR 20V MAX BRUSHLESS 2VS IMPACT DRIVER



Battery charger
5350-010



ASSEMBLY AND OPERATION

CHECKING THE BATTERY CHARGE STATUS

The level of charge remaining in the battery can be checked by using the battery LED power indicator that is contained on the end of the battery.

NOTE: The battery charge remaining may be checked while the battery is installed in the tool with the ON/OFF switch turned OFF. It may also be checked while the battery is removed from the tool. **DO NOT** check the battery charge remaining while the battery is in the charger. You will get a false reading and you may also damage the battery status system.

1. Press and hold the battery status button located on the end of the battery.
2. One or more of the Four LED lights in the LED window will come ON to indicate the amount of charge that is remaining in the battery as follows:

| | | | | | | |
|----------------------------|---------|----------|----------|----------|-----------|--|
| Charge Level Indicator | | | | | | |
| Amount of Charge Remaining | 0 - 10% | 10 - 25% | 25 - 50% | 50 - 75% | 75 - 100% | |

3. Release the battery status button to turn the LEDs OFF.

CHECKING THE BATTERY PACK

1. Place the battery charger (1) in a dry location near a 110–120V 60 Hz electrical outlet (Fig. 1).
2. Plug the battery charger into the outlet and make sure the green LED indicator light (5) comes ON. If it does not, refer to the chart (Fig. 2) to identify the problem.
3. Turn the battery (2) upside down and slide it onto the charger. NOTE: Make sure the grooves (3) in the sides of the battery slide over the matching tabs on the charger (4) until the battery latch “clicks” into place.

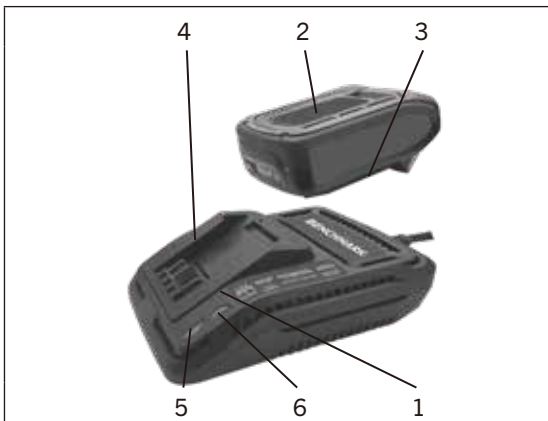


FIG. 1

NOTE: a) When the charger is plugged into the wall receptacle and NO battery is on the charger, the green indicator light (5) will turn ON indicating the charger is “live”.

b) When a discharged battery is installed on the charger, the green indicator light will turn OFF and the red indicator light (6) will FLASH. The flashing red indicator light indicates the battery is being charged.

c) If the red indicator light does not come ON, check to make sure battery pack is slid fully onto the charger and the electrical outlet is working properly.

d) See Fig. 2 at right for other indicator light functions.

e) A discharged battery pack should be fully charged in up to 75 minutes.

f) It is normal for the battery charger to hum and be warm to the touch during operation.

g) If the battery pack does not charge properly, check to make sure the electrical outlet is “live”.

h) Do NOT charge batteries when the work area or the battery temperature is at or below 5°C (41° F) or above 40°C (105° F).

| Green Light | Red Light | Battery Inserted Into Charger | Charging Status |
|-------------|-----------|-------------------------------|---|
| ON | OFF | ON | Charger connected to power supply |
| OFF | Flashing | YES | Battery being charged |
| ON | OFF | YES | Battery fully charged |
| OFF | ON | YES | Battery defective or bad contact |
| ON | ON | YES | Battery too hot or too cold to be charged |

FIG. 2

INSTALLING A BATTERY IN THE IMPACT DRIVER

1. Remove the discharged battery (1) from the drill by pressing downward on the battery release button (2) and sliding the battery backward until it is removed from the drill handle (3) (Fig. 3).

2. Slide the fully charged battery onto the matching keys (4) in the drill handle where the discharged battery has been removed.

NOTE: Make sure the slots in the battery are fully engaged with the mounting keys in the drill handle. The battery release button will “click” into place when the battery is fully installed.

⚠ WARNING: Do not immerse the battery pack in water. Sudden cooling could cause a hot battery to explode or leak.

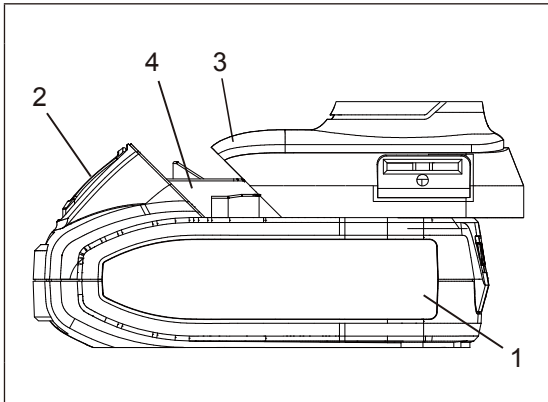


FIG. 3

INSTALLING SCREWDRIVER BITS AND SOCKETS

⚠️ WARNING: Never hold the impact driver with your fingers near the switch while changing the screwdriver bits. Accidentally touching the switch may start the tool and possibly cause an injury.

⚠️ WARNING: Use only screwdriver bits, sockets that are designed for use with an impact driver. Do not use chrome plated sockets and accessories. Chrome plated sockets and accessories are designed for hand use only and **MUST NOT** be used with an impact driver. They may shatter and possibly cause serious injury.

⚠️ WARNING: Always remove the battery from the tool before changing any sockets, bits or accessories. You may injure your hand if the tool is started accidentally.

1. Pull outward on the quick release chuck (1) (Fig. 4).
2. Insert the grooved end of the impact driver bit holder. (2) into the chuck (3) of the tool.

NOTES: a) Always use ANSI single ended screwdriver bits or nut driver with the grooved end. These bits will be properly held in place by the chuck. Other bit types cannot be properly secured in the chuck. b) Push the screwdriver bit as far as it will go into the chuck.

3. Release the quick release chuck.
4. Pull outward on the screwdriver bit to ensure it is properly locked into the chuck.

NOTES: a) Use the largest size screwdriver bit that will properly fit the screw head. b) Make sure the screwdriver bit is in good condition and is neither damaged nor worn.

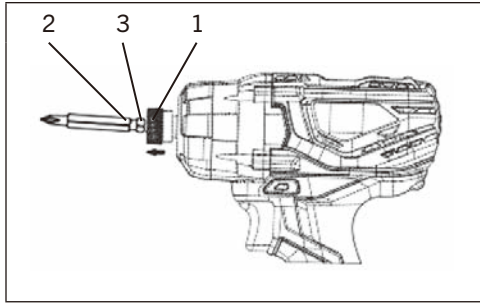


FIG. 4

FORWARD/REVERSE SWITCH

The forward/reverse switch (1) is conveniently mounted above the trigger switch (2) (Fig. 5). To make the impact driver rotate clockwise for driving screws, push the forward/reverse switch to the left. To make the driver rotate counter-clockwise for removing screws, push the forward/reverse switch to the right

NOTE: a) Never change the position of the forward/ reverse switch while the chuck is turning. b) The trigger switch will Not function with the forward/reverse switch in the middle position.

VARIABLE-SPEED TRIGGER SWITCH

This drill is equipped with a variable-speed ON/OFF trigger switch.

1. To start the impact driver, gently squeeze the trigger switch (2) (Fig. 6). **NOTE:** The impact driver will turn at its slowest speed when the trigger switch is squeezed lightly. The impact driver will turn at its fastest speed when the trigger switch is squeezed firmly.

2. To stop the drill, release the trigger switch.

NOTE: Operating the impact driver at a slow speed for an extended period of time may cause the impact driver motor or the battery to overheat. If the driver gets hot, stop operating it and allow it to cool for at least 15 minutes.

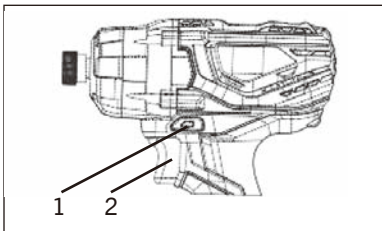


FIG. 5

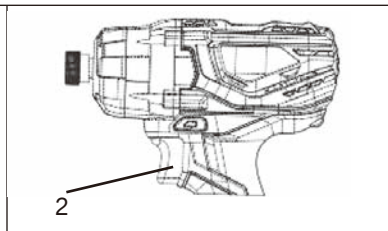


FIG. 6

SPEED AND AUTO-STOP CONTROL

(Located on tool foot)

Push the selection button when the tool is in forward for low or high speeds. Push to select the auto-stop feature when the tool is in reverse.

| Speed | Direction | Lights | Application |
|-------------------|-----------|--------|---|
| Low | Forward | On | Low torque and finish work such as plastic trim or installation |
| High | Forward | On | Higher torque such as driving self-tapping screws |
| Reverse Auto-Stop | Reverse | On | To loosen screws or bolts |

LED WORK LIGHT

The LED work light (3) will automatically turn ON when the trigger switch is squeezed (Fig. 7). It will automatically turn OFF when the trigger switch is released.

NOTE: The LED light has a 20-second time delay.

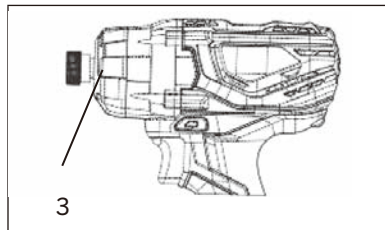


FIG. 7

PREPARING SCREW HOLES

It is important to prepare screw holes before attempting to fasten two pieces of wood together. Proper preparation will make screws drive easier and prevent misaligned components, stripped screw heads, splitting and separating of wood components.

1. Clamp the components that are to be screwed together in their desired position (Fig. 8).
2. Drill a pilot hole (1) through the outer piece (2) and into the inner piece (3).
Drill hole 2/3 the diameter of the smooth portion of the screw shank.

NOTE: If the wood is soft, drill the hole 2/3 the length of the screw. If the wood is hard, drill the hole the full length of the screw.

3. Remove the clamp from the two pieces to be screwed together.
4. Enlarge the hole (1) in the outer piece (2) so it is the same size as the smooth portion of the screw shank (Fig. 9).

5. If using a flat head screw, counter-sink the hole (4) so the head of the screw will be flush with the surface when fully driven into place.

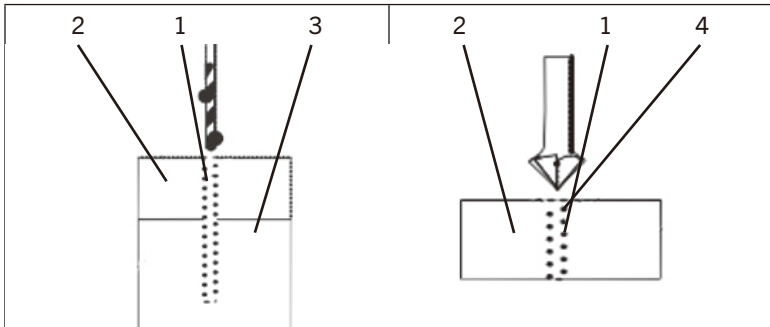


FIG. 8

FIG. 9

DRIVING SCREWS

When driving screws, care must be taken to use a bit that correctly fits the head of the screw being driven. Make sure you use the largest bit size that will properly fit into the head of the screw. The bits must also be in good condition and not worn so they will drive screws without slipping out of the screw head.

1. Select the correct screwdriver bit for the screw being driven and install it in the collet (Fig. 4).
2. Set forward/reverse switch to “forward” (Fig. 5).
3. Insert the screwdriver bit fully into the screw head (Fig. 10).
4. While holding the screwdriver bit firmly against the screw and the bit aligned with the screw, squeeze the trigger switch to start the cordless driver and drive the screw.
5. When the screw is driven to the correct depth, release the switch and the impact driver will stop.

NOTE: As the screw is driven into the wood, the torque required to completely drive the screw into the wood will increase. The impact function will allow you to continue driving the screw until it is fully nested in the countersunk area.

6. Release the trigger as soon as the screw is driven to the desired depth. Failure to release the trigger at this point will result in an overdriven screw and possibly twist the head off the screw.

NOTE: To remove screws, follow the same general procedure as for driving screws.

7. Push the forward/reverse button to the RIGHT for removing screws.
8. Insert the bit fully into the screw head.
9. Hold the impact driver and bit firmly against the screw head and squeeze the trigger switch.

NOTE: The impact action will allow you to remove tight screws.

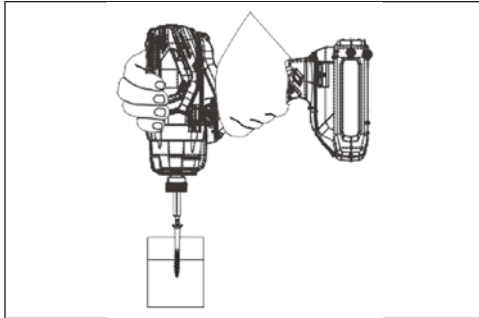


FIG. 10

This impact driver may be used with nut drivers and impact sockets. Although these accessories are NOT included with this tool, they may be purchased separately.

WARNING: Nut drivers, socket adaptor and sockets MUST be impact rated and include the ANSI locking groove.

INSTALLING NUT DRIVERS FOR 3/16" TO 3/8" NUTS

1. Select the correct nut driver size.
2. Insert the hex end (1) into the hex drive (2) (Fig. 11).

NOTE: See Fig. 3 for complete procedure.

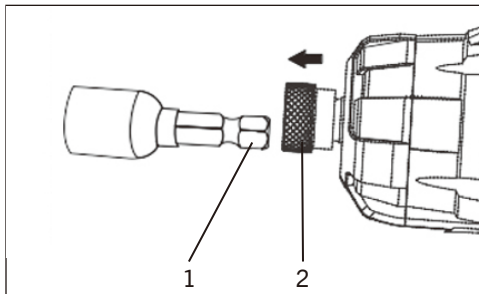


FIG. 11

INSTALLING IMPACT SOCKETS FOR 7/16" TO 3/4" NUTS

1. Insert the hex end of the socket adaptor (1) into the hex drive (2) (Fig. 12).
2. Select the correct socket size.
3. Push the square end of the socket (3) onto the matching square end of the adaptor (4).

NOTE: Make sure the socket is fully installed onto the square portion of the adaptor.

REMOVING NUTS

1. Press the forward/reverse button to the RIGHT for removing nuts (Fig. 5).
2. Place the socket fully onto the nut.
3. Hold the nut driver socket and impact driver firmly against the nut with both hands. With the nut driver aligned with the nut, squeeze the trigger switch to start the impact driver and remove the nut.

NOTE: When removing fasteners, do not allow the impact driver to operate more than 5 seconds unless the fastener begins to turn. If the fastener fails to turn within 5 seconds, reverse the direction of rotation and operate the impact driver in a forward direction on the fastener for a few seconds. Now switch back to reverse direction and remove the fastener. This procedure will usually break loose seized or “frozen” fasteners.

⚠ WARNING: Operating the impact driver for more than 5 seconds at a time on a seized or “frozen” fastener will place severe stress on the impact driver and cause damage. It may also break the fastener.

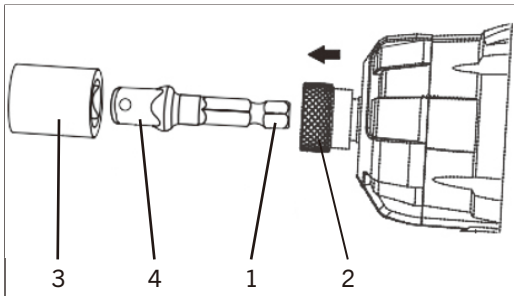


FIG. 12

MAINTENANCE

GENERAL

⚠️ WARNING: When servicing, use only identical replacement parts. The use of any other part may create a hazard or cause product damage.

DO NOT use solvents when cleaning plastic parts. Plastics are susceptible to damage from various types of commercial solvents and may be damaged by their use. Use a clean cloth to remove dirt, dust, oil, grease etc.

⚠️ WARNING: DO NOT allow brake fluids, gasoline, petroleum-based products, penetrating oils, etc. to come into contact with plastic parts. They contain chemicals that can damage, weaken, or destroy plastic.

DO NOT abuse power tools. Abusive practices can damage the tool and the workpiece.

⚠️ WARNING: DO NOT attempt to modify tools or create accessories. Any such alteration or modification is misuse and could result in a hazardous condition leading to possible serious injury. It will also void the warranty.

LUBRICATION

All of the bearings in this tool are lubricated with a sufficient amount of high-grade lubricant for the life of the unit under normal conditions. Therefore, no further lubrication is required.

LITHIUM-ION BATTERY PERFORMANCE

Lithium-ion rechargeable batteries generally provide superior performance to nickel-cadmium batteries when used in power tools.

- Faster charges
- Longer battery life
- More power
- Lighter weight

Lithium-ion batteries perform best and deliver peak output power at room temperature (20° C or 68° F). When operated in lower temperatures, the battery output will be reduced and it will NOT function below -20° C (-4° F). The output power will increase as the heat generated by the battery during use increases the internal temperature of the battery. The result is increased power as the tool is used.

LITHIUM-ION BATTERY MAINTENANCE

Lithium-ion batteries share many characteristics with nickel-cadmium batteries.

The major characteristic that is NOT shared with nickel-cadmium batteries is that Lithium-ion batteries do not have a “memory” and do not require to be completely discharged periodically. It is recommended that you charge your Lithium-ion batteries after each use so they will be fully charged when needed.


NOTE: A fully charged battery will lose about 2% of its charge per month during storage.


BATTERY PACK REMOVAL AND PREPARATION FOR RECYCLING

To preserve our natural resources, please recycle or dispose of batteries properly.

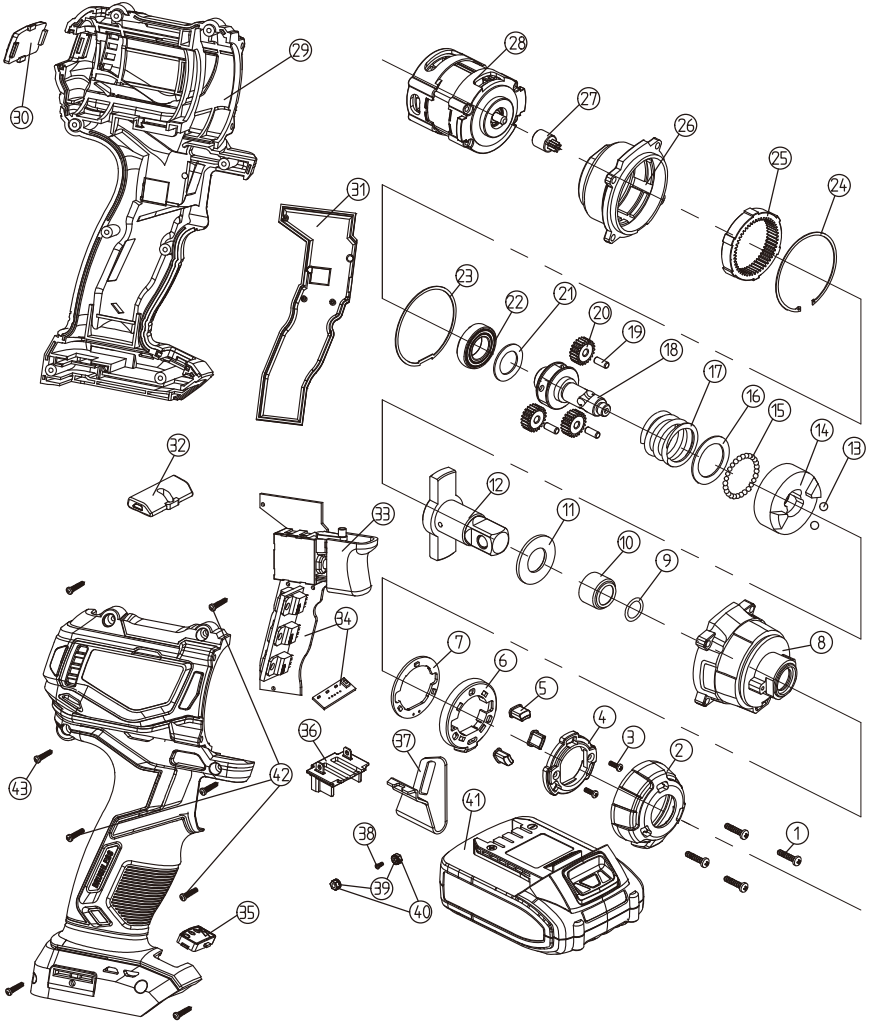
The batteries supplied with this tool may contain chemicals and metals that are harmful to the environment. Never dispose of rechargeable batteries in your normal household garbage or land fill sites because they will add to the pollution of the environment.

Consult your local waste authority for information regarding available recycling and disposal options.

 WARNING: If the battery pack has been removed from the tool, cover the terminals of the battery pack with electrical tape or heavy-duty adhesive tape. Never touch both terminals with metal objects or body parts, because a short circuit may result. Keep away from children. Do not attempt to destroy or disassemble battery pack or remove any of its components. Rechargeable batteries must be recycled or disposed of properly. Failure to comply with these warnings could result in fire and serious injury.

 WARNING: When servicing, use only original equipment replacement parts. The use of any other parts may create a safety hazard or cause damage to the tool. Any attempt to repair or replace electrical parts on this tool may create a safety hazard unless repairs are performed by a qualified technician. For more information, call the Toll-free helpline at 1-866-349-8665.

EXPLODED VIEW



PARTS LIST

Always order by part number.

| KEY # | PART # | PART NAME / QUANTITY | KEY # | PART # | PART NAME / QUANTITY |
|-------|------------|--------------------------------|-------|------------|------------------------------|
| 1 | 4030010263 | ST3 9 X 25 / 4 | 25 | 2010090070 | Inner ring / 1 |
| 2 | 3140100011 | Rubber sleeve / 1 | 26 | 4020010007 | Gear box / 1 |
| 3 | 4020020017 | M3X8 / 2 | 27 | 2020010027 | Motor gear / 1 |
| 4 | 3150160218 | Lampshade setting ring / 1 | 28 | 2010180026 | Motor / 1 |
| 5 | 3160060091 | Lampshsde / 3 | 29 | 1039080001 | Enclosure / 1 |
| 6 | 3150160219 | Circuit board setting ring / 1 | 30 | 3010020032 | Cooling block / 1 |
| 7 | 1130040070 | LED circuit board / 1 | 31 | 2030100070 | Hook / 1 |
| 8 | 2020050082 | Aluminum shell / 1 | 32 | 3120030126 | Direction setting button / 1 |
| 9 | 3140020001 | O type ring (1) / 1 | 33 | 1130030050 | Switch / 1 |
| 10 | 2010080002 | Shaft coat / 1 | 34 | 1060050017 | Control circuit board / 1 |
| 11 | 2030020002 | Washer (2) / 1 | 35 | 2020180005 | LED circuit board (2) / 1 |
| 12 | 2040050126 | Outer shaft / 1 | 36 | 4020010027 | Electrode plate / 1 |
| 13 | 4080070001 | Ball ϕ 5.5 / 2 | 37 | 3150170016 | Housing hook / 1 |
| 14 | 2040200011 | Impct block / 1 | 38 | 4030010145 | M3X12 / 1 |
| 15 | 4080040001 | Ball ϕ 4 / 21 | 39 | 4030010248 | Sarrated ring / 2 |
| 16 | 2030020003 | Washer (3) / 1 | 40 | 4020010168 | M3hexagon nut / 2 |
| 17 | 2050060004 | Torque spring / 1 | 41 | 4040080003 | Battery pack / 1 |
| 18 | 2040050106 | Inner shaft / 1 | 42 | 4060010003 | ST3X14 bald / 3 |
| 19 | 4110030002 | Pin ϕ 4X9.8 / 3 | 43 | 1290090019 | ST3X16 bald / 5 |
| 20 | 2010010064 | Planetary gear / 3 | 44 | | |
| 21 | 2030020229 | Washer (5) / 1 | 45 | | |
| 22 | 4010010062 | Bearing (6902Z) / 1 | 46 | | |
| 23 | 3190090001 | Oil proof washer / 1 | 47 | | |
| 24 | 4100010013 | Internal circlip / 1 | 48 | | |

⚠ WARNING: When servicing, use only original equipment replacement parts. The use of any other parts may create a safety hazard or cause damage to the tool.

Any attempt to repair or replace electrical parts on this tool may create a safety hazard unless repairs are performed by a qualified technician. For more information, call the Toll-free Helpline, at 1-866-349-8665.

WARRANTY

If this Benchmark tool fails due to a defect in material or workmanship within five years from the date of purchase, return it to any Home Hardware store with the original bill of sale for exchange. 3-year warranty for the battery and charger. This warranty does not include expendable parts including but not limited to blades, brushes, belts, light bulbs.

This warranty covers defects in material or workmanship only. It does not cover normal wear and tear, failure due to abuse/misuse, or defects caused by careless or accidental mishandling. If this Benchmark product is used for commercial or rental purposes, this warranty does not apply.

20V MAX BRUSHLESS 1/4" IMPACT DRIVER



5 Year Limited Warranty
3 Year Limited Warranty on
Battery and Charger

BENCHMARK™
MC

BENCHMARK TOOLS CANADA
ST. JACOBS, ONTARIO N0B 2N0
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CUSTOMER SERVICE/TECH SUPPORT
1-866-349-8665

1239-102

Made in China



* This Benchmark™ product carries a five (5) year LIMITED warranty against defects in workmanship and materials. The charger and batteries carry a three (3) year LIMITED warranty. See Owner's Manual for full details.



Intertek

3042597
JD509620

**READ ALL INSTRUCTIONS BEFORE FIRST USE.
KEEP THIS MANUAL FOR FUTURE REFERENCE.
KEEP AWAY FROM CHILDREN.**

Maximum initial battery voltage (measured without a load)
is 20 volts. Nominal voltage is 18 volts.



**WEAR CSA APPROVED
EYE PROTECTION**



**WEAR EAR
PROTECTION**



**WEAR A
FACE MASK**

BENCHMARKTM MC

20V MAX LED WORKLIGHT



LIMITED
5 YEAR*
WARRANTY

5 Year Limited Warranty on tool
3 Year on battery and chargers
Battery and charger sold separately
Battery & charger included where applicable

**READ ALL INSTRUCTIONS BEFORE FIRST USE.
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Maximum initial battery voltage (measured without a load)
is 20 volts. Nominal voltage is 18 volts.



**WEAR CSA APPROVED
EYE PROTECTION**



**WEAR EAR
PROTECTION**



**WEAR A
FACE MASK**

PRODUCT SPECIFICATIONS

| 20V MAX LED LIGHT | |
|-----------------------------|---|
| Voltage | 20V |
| LED Light levels | 2 |
| Wattage | 3W LED (Equals 130 LUMENS) |
| Rotation | 360° |
| Tilts | 90° |
| Weight | 0.5Lb (0.2KG) Worklight Only |
| Batteries (Sold Separately) | 5350-023 (2.5Ah), 5350-011 (4Ah), 5350-012 (5Ah) |
| Charger (Sold Separately) | 5350-010 2.4Amp |

NEED ASSISTANCE?

Call us on our toll-free customer support line:
1-866-349-8665 (Monday through Friday 9am – 5pm Eastern Standard Time)

- Technical questions
- Replacement parts
- Parts missing from package

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GENERAL SAFETY INSTRUCTIONS

⚠️ 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

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

ELECTRICAL SAFETY

- a) **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.
- b) **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.
- c) **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- d) **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.
- e) **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.
- f) **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

- a) **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.
- b) **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.

- c) **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.
- d) **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.
- e) **Do not overreach. Keep proper footing and balance at all times.** This SYMBOLS enables better control of the power tool in unexpected situations.
- f) **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.
- g) **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

- a) **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.
- b) **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.
- c) **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.
- d) **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.
- e) **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.
- f) **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- g) **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






- a) **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.
- b) **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
- c) **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.
- d) **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

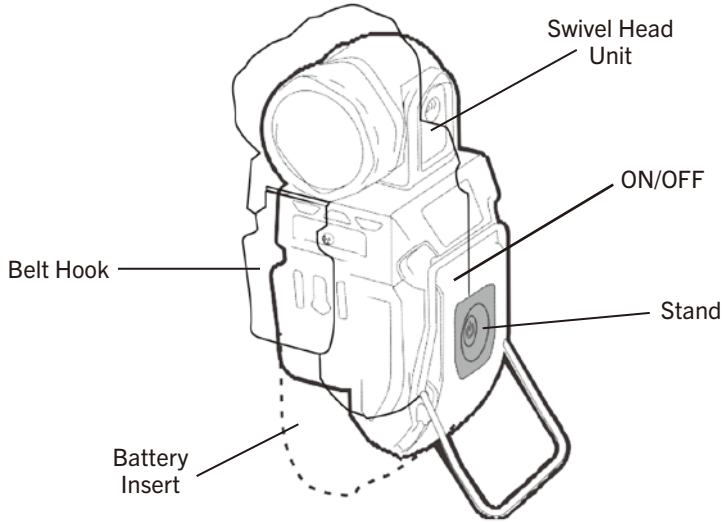
- a) **Have your power tool serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the power tool is maintained.

SYMBOLS

The rating plate on your tool may show symbols. These represent important information about the product or instructions on its use.

| | | | |
|---|---|---|--|
|  | Direct current, DC |  | Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice. |
|  | Refer to instruction manual/ booklet | | |
|  | General warning |  | Regulator compliance mark |

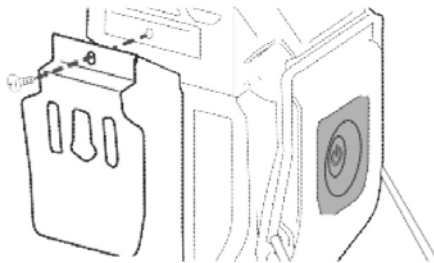
KNOW YOUR 20V MAX LED LIGHT



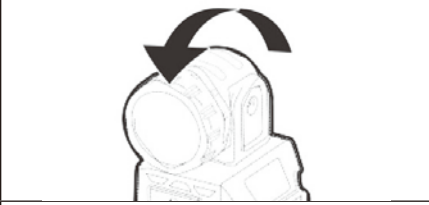
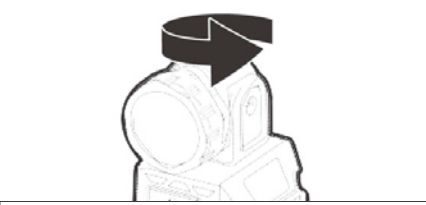
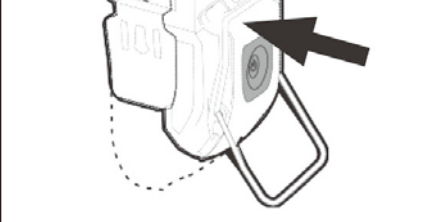
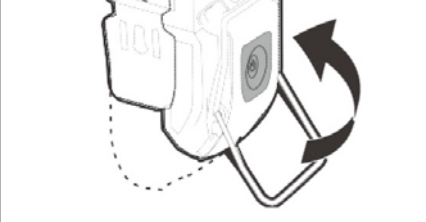
TOOL ASSEMBLY

INSTALLING THE BELT CLIP

Place provided belt clip (4) in the desired position on the side of the torch. Using a Phillips head #2 screwdriver, place screw through clip into screw hole & hand tighten until you feel resistance & clip is adequately tight.



HOW TO USE THE 20V MAX LED LIGHT

| | |
|---|--|
|  |  |
| VERTICAL SWIVEL (180°) | HORIZONTAL SWIVEL (360°) |
|  |  |
| HOW TO TURN THE LIGHT ON To turn on the light, press the on/off switch (2) once for low light and twice for full light. | HOW TO USE THE STAND The hanger/stand (3) has three available positions: Position 1: Closed Position 2: Used as a stand to hold up the light Position 3: Used to hang the light up allowing for handsfree use |

MAINTENANCE

Avoid using solvents when cleaning plastic parts. Most plastics are susceptible to damage from various types of commercial solvents and may be damaged by their use. Use clean cloths to remove dirt, dust, oil, grease, etc.

⚠ WARNING: Do not at any time let brake fluids, gasoline, petroleum based products, penetrating oils, etc., come in contact with plastic parts. Chemicals can damage, weaken or destroy plastic which may result in serious personal injury.

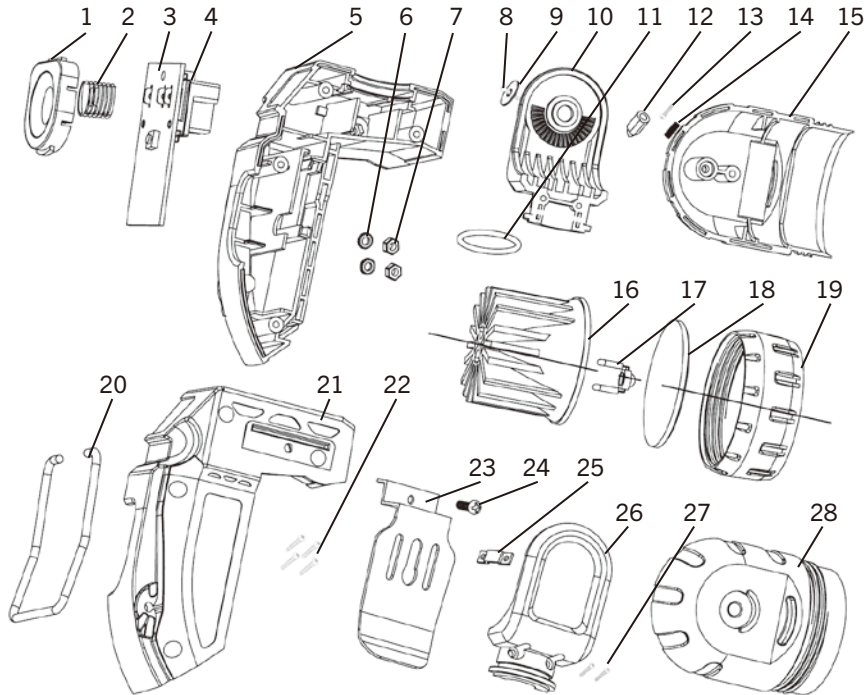
WARRANTY

BENCH MARK 20V MAX LED LIGHT

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EXPLODED VIEW



PARTS LIST

| KEY # | PART # | PART NAME / QUANTITY | KEY # | PART # | PART NAME |
|-------|------------|----------------------------|-------|------------|-------------------------------|
| 1 | 3120010084 | Switch Button / 1 | 15 | 3010120027 | Revolving Housing (Left) / 1 |
| 2 | 2050030017 | Spring / 1 | 16 | 2030030232 | Reflector / 1 |
| 3 | 1130030062 | Pcb Assembly / 1 | 17 | 1220040003 | LED Light / 1 |
| 4 | 3150170018 | Terminal Plate / 1 | 18 | 3180010019 | Lens / 1 |
| 5 | 3010120034 | Left Housing / 1 | 19 | 3160060064 | Lens Retainer / 1 |
| 6 | 2030020305 | Washer / 2 | 20 | 4030010034 | Steel Wire / 1 |
| 7 | 4060010039 | Nut / 2 | 21 | 3010120034 | Right Housing / 1 |
| 8 | 4030010034 | Screw St 2.9x16 / 1 | 22 | 4030010034 | Screw St 2.9x16 / 4 |
| 9 | 2030020288 | Washer / 1 | 23 | 2030090031 | Belt Loop / 1 |
| 10 | 3010120025 | Left Revolving Support / 1 | 24 | 4020010168 | Screw M 3x12 / 1 |
| 11 | 3140020046 | O Ring / 1 | 25 | 3150020008 | Cord Clamp / 1 |
| 12 | 3150130127 | Pin / 1 | 26 | 3010120025 | Right Revolving Support / 1 |
| 13 | 4030010012 | Screw St 2.5x10 / 1 | 27 | 4030010012 | Screw St 2.5x10 / 2 |
| 14 | 2050060209 | Spring / 1 | 28 | 3010120027 | Revolving Housing (Right) / 1 |

20V MAX LED WORKLIGHT

1239-102

20V MAX LED WORKLIGHT



5 Year Limited Warranty on tool
3 Year on battery and chargers
Battery and charger sold separately

BENCHMARK™
MC

BENCHMARK TOOLS CANADA

ST. JACOBS, ONTARIO N0B 2N0

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CUSTOMER SERVICE/TECH SUPPORT

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