

20V MAX VARIABLE SPEED JIGSAW



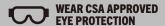
SYEAR*

5 Year Limited Warranty
Battery and charger sold separately



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.









PRODUCT SPECIFICATIONS

BENCHMARK 20V MAX* LI-ION VS JIGSAW		
Voltage	20V MAX* Li-lon	
Variable speed	0-2700 SPM (no load)	
Stroke length	3⁄4 in. (20mm)	
Blade change system	Tool free	
Blade types	"T" and "U" shanks	
Cutting depth	Wood: Wood 3-3/16" (80mm)	
	Metal: Metal — 3/16" (5mm) Aluminum 9/16" (15mm)	
Orbital settings	3 plus neutral	
Base plate bevel	0-45°	
Batteries (Sold Separately)	5350-023 (2.5Ah) , 5350-011 (4Ah) 5350-012 (5Ah)	
Charger (Sold Separately)	5350-010 2.4Amp 5350-022 6A Fast Charger	
Weight	3.6LBS (1.64KG)	

^{*}Maximum initial battery voltage (measured without a workload) is 20 volts. Nominal voltage is 18 volts.

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

!CAUTION:

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.

SYMBOL	MEANING
A DANGER	ALWAYS WEAR EYE PROTECTION THAT CONFORMS WITH CSA 294.3 or ANSI SAFETY STANDARD 287.1 FLYING DEBRIS can cause permanent eye damage. Prescription eyeglasses ARE NOT a replacement for proper eye protection. Non-compliant eyewear can cause serious injury if broken during the operation of a power tool.
WARNING	Use hearing protection, particularly during extended periods of operation of the tool, or if the operation is noisy.
A WARNING	WEAR A DUST MASK THAT IS DESIGNED TO BE USED WHEN OPERATING A POWER TOOL IN A DUSTY ENVIRONMENT. 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: Lead from lead-based paints Crystalline silica from bricks, cement, and other masonry products Arsenic and chromium from chemically treated lumber 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.

ELECTRICAL SAFETY



WARNING:

Only use the battery and charger recommended for this product to charge the 20V Li-ion batteries used for this tool.

Using other batteries may damage the charger and possibly cause damage to the tool or cause serious injury.



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 the 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.

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.

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.

SAVE THESE INSTRUCTIONS FOR REFERENCE

SPECIFIC SAFETY RULES

!WARNING:

Know your jigsaw. Do not use the jigsaw 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.

Always wear safety goggles, hearing protection and a dust mask. Use only in well-ventilated areas. Using personal safety devices and working in a safe environment reduces the risk of injury.

Hold the tool by 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 make sure the work surface is free of nails and other foreign objects. Cutting into a nail can cause the blade and the tool to jump and damage the blade.

Never hold the workpiece in one hand and the tool in the other hand when sawing.

Never place your hands near or below the cutting surface. Clamping the material and guiding the tool with both hands is much safer.

Never lay the workpiece on hard surfaces like concrete, stone, etc. The protruding blade may cause the tool to jump.

Use only "U" or "T" shank blades that are designed specifically for jigsaw use. Never use a broken blade, as it will not be securely held in the tool.

After changing a blade, make sure the blade is securely held in the blade holder. Loose blades will be violently thrown.

Never touch the blade during or immediately after use. After use, the blade is too hot to be touched by bare hands.

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.

Always use the straight reciprocating action when cutting metal. Blades will last longer and will be less likely to break.



SYMBOLS

WARNING: Some of the following symbols may appear on the jigsaw. 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 ~	Three-phase alternating current
Α	Amperes	3n ~	Three-phase alternating current with neutral
Hz	Hertz		direct current
W	Watts	n _o	No load speed
kW	Kilowatts	$\overline{}$	Alternating or direct current
μF	Microfarads		Class II construction
L	Litres		Splash-proof construction
kg	Kilograms	4 4	Watertight construction
Н	Hours		Protective grounding at terminal, Class I tools
N/cm ²	Newtons per square centimetre	/min	Revolutions or reciprocations per minute
Pa	Pascals	Ø	Diameter
OPM	Oscillations per minute	0	Off position
Min	Minutes	→	Directional arrow
S	Seconds	\triangle	Warning symbol
~ or AC	Alternating current		Wear your safety glasses



This symbol designates that this tool is listed with U.S. and Canadian requirements by cTUVus Testing Laboratories, Inc. UL62841-1, UL62841-2-11 CSA C22.2#UL62841-1, UL62841-2-11

KNOW YOUR JIGSAW



BENCHMARK:

ASSEMBLY AND OPERATING

INSTALLING A BLADE

MARNING: Always remove battery before installing or removing a blade or adjusting the jigsaw in any way.

- 1. To install a blade in the jigsaw, push the locking lever to the right (1) (Fig. 1).
- 2. Insert the appropriate blade (2) into the blade slot (3) as far as it will go.

NOTE: Make sure the rear edge of the blade is nested in the blade guide roller (4).

3. Release the blade-locking lever.

NOTE: The blade will automatically be locked into the blade holder. Pull outward on the blade to ensure it is properly locked into the blade holder.

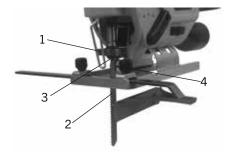


Fig. 1

REMOVING A BLADE

Repeat steps above.

INSTALLING THE EDGE GUIDE

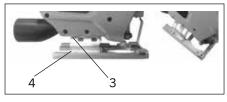
This jigsaw is equipped with an edge guide that will assist in cutting narrow edges from a workpiece.

- 1. Loosen the two edge guide mounting wing nuts.
- 2. Insert the edge guide into the edge guide mounting slots in the sole plate.
- Set the edge guide at the desired distance from the blade and lock it into place by tightening the edge guide wing nuts.
- 4. Make a test cut on a scrap workpiece to ensure the edge guide is set correctly.
- 5. Adjust the edge guide as required.

SETTING THE BEVEL CUTTING ANGLE

Bevel cutting angles may be adjusted from 0° to 45° either left or right. To adjust the bevel angle:

- 1. Loosen the two screws holding the base onto the jigsaw. Then adjust your base sole plate until the sole plate can be rotated.
- 2. Bevel angles (3) are marked on a scale located on the side of the base (Fig. 2).
- 3. Slide the base toward the back of the jigsaw and align the bevel angle with the edge of the base (4).



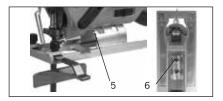


Fig. 2 Fig. 3

- 4. Slide the base toward to engage the bevel angle slot (5) with the indexing pin (6). (Fig. 3).
- 5. Tightenthe two screws holding the base onto the jigsaw.

NOTE:

- a) Use a protractor to check the bevel angle between the blade and the base.
- b) To set the bevel angle at intermediate angles, do not slide the base backward.

SETTING THE ORBITAL CUTTING ANGLE

The variable orbital cutting action allows you to select one of four different blade angles.

Position	Angle	Material
0	Neutral	Metal
1	Small	Hard wood
2	Large	Soft wood
3	Full	Styrofoam

To set the orbital cutting angle, rotate the orbital cutting lever forward or backward to the desired setting number (1) (Fig. 4).

NOTE: The orbital setting button will "click" at each of the four positions. Slide the orbital button slightly forward or backward until it locks into place.

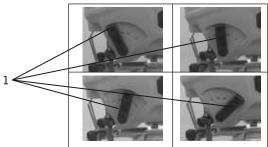
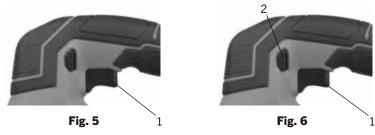


Fig. 4

TRIGGER SWITCH

The trigger switch turns the jigsaw ON and OFF.



- 1. To turn the jigsaw ON, push the lock-off button (2) (Fig. 6) and squeeze the trigger switch (1) (Fig.5).
- 2. To turn the jigsaw OFF, release the trigger switch.

LOCK-OFF BUTTON

Your jigsaw is equipped with a "lock-off" button which reduces the possibility of accidental starting (Fig.6). The lock-off button is located on the handle above the switch trigger (1). You must depress the lock-off button (2) in order to pull the switch trigger (1). The lock resets each time the trigger is released.

INSTALLING THE VACUUM ADAPTOR

To reduce the amount of loose sawdust produced while cutting, a workshop vacuum can be attached to the jigsaw by using the vacuum adapter supplied with the jigsaw.

To install the vacuum adapter (1), insert the adapter into the vacuum port (2) in the rear of the jigsaw housing (Fig. 7).

NOTES:

- a) The vacuum adapter is slightly tapered. If the adapter is too large to be inserted into the vacuum port, insert the opposite end of the adaptor into the vacuum port.
- Twist the adapter slightly as it is pressed into the vacuum port to ensure it is fully inserted.



Fig. 7



VACUUM PORT SWITCH

During normal use without the vacuum adaptor installed, the vacuum port switch (1) must be slid toward the front of the tool (Fig. 8). This will allow the internal motor fan to continuously blow the sawdust away from the cutting mark. When the vacuum adaptor is installed, the vacuum port switch must be slid toward the rear of the tool. This positions the internal baffle to divert the sawdust through the vacuum port so it can be evacuated by the workshop vacuum.

MATERIALS YOU CAN CUT

This jigsaw is a versatile tool that allows you to cut many different types of materials. Some of these materials include:

- Wood products such as lumber, hardwood, plywood, composite board, and panelling
- Drywall
- Styrofoam
- Fibre board and plastic
- Metals such as pipe, steel rods, sheet steel, aluminum, brass, and copper.

NOTE: There are many different types of blades available. Generally, there are metal cutting blades (fine teeth) and wood cutting blades (coarse teeth). Use the correct blade for your application. The packaging on the blade will indicate the type of materials each blade is designed to cut.

⚠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", "EXTENSION CORD SAFETY" and "SYMBOLS" before using this jigsaw.

Verify the following every time the jigsaw is used:

- 1. The blade is tight and sharp.
- 2. All adjustments are tight.
- 3. The workpiece is properly secured.
- 4. Safety glasses and hearing protection are being worn.

Failure to adhere to these safety rules can greatly increase the chances of injury.

GENERAL CUTTING

- 1. Clearly mark the workpiece to locate the position of the cut.
- Hold smaller workpieces with a vise. Clamp larger workpieces to a workbench or table.

______DANGER: Any workpiece that is not adequately clamped in place may come loose and cause serious injury. Never hold the workpiece with your hand.

MARNING: Keep your hands and fingers away from between the motor housing and the blade holder. Do not reach underneath the workpiece while the jigsaw is running.

- 3. Rest the front of the jigsaw base on the workpiece and align cutting edge of the blade with the cutting line on your workpiece (Fig. 9). Make sure the power cord is out of your way and not in the path the blade will follow.
- 4. While firmly gripping the jigsaw, and with the blade NOT in contact with the surface to be cut, start the jigsaw by squeezing the trigger switch.
- 5. Once the jigsaw has reached the desired speed, gradually bring the moving blade into contact with the workpiece at the appropriate location.

NOTE: Apply enough downward pressure to keep the jigsaw steady and only enough forward pressure to keep the blade cutting freely.

CAUTION: Do not force the jigsaw. Use only enough force to keep the blade cutting. Excessive pressure on the blade will cause it to bend and twist, which may result in breaking the blade.





BEVEL CUTTING

Bevel cutting angles may be adjusted from 0° to 45° either left or right. To adjust the bevel angle, refer to Fig. 4, 5 & 6.

Once the cutting angle has been verified, proceed with the cutting activity as outlined in "GENERAL CUTTING" above.

PLUNGE CUTTING

⚠WARNING: To avoid loss of control, broken blades or damage to the workpiece, always use extreme caution when making plunge cuts. It is not recommended to plunge cut any material other than wood. Wherever possible, drill a pilot hole 3/8" (9.5 mm) or larger in the area to be cut out and start cutting with the blade in the pilot hole. This will avoid the need to plunge cut.

NOTE: Use only blades with 7 teeth per inch for plunge cutting.

- 1. To plunge cut an inside hole, clearly mark the cutting line on the workpiece.
- 2. Set the bevel angle at 0°, and then lock the base plate.
- 3. Tilt the jigsaw forward so it rests on the front edge of the base plate and in a position where the blade will NOT touch the workpiece when the switch is turned ON (Fig. 10).

NOTE: Make sure the saw blade is inside the area to be cut.

4. Start the jigsaw and slowly lower the blade onto the workpiece while making sure the front of the saw base remains in contact with the workpiece. Allow the blade to slowly cut through the wood.

Continue lowering the blade into the workpiece until the jigsaw base rests flat on the workpiece. Continue sawing toward the cutting line and complete the cut as required.

METAL CUTTING

Many types of metal can be cut with your jigsaw. When cutting any kind of material, be careful not to twist or bend the blades. **Do not force the blade.** If the blade chatters or vibrates excessively, use a finer toothed blade. If the blade heats excessively, reduce the speed of cutting. If the blade teeth become clogged when cutting soft metals, such as aluminum, use a coarser blade with fewer teeth per inch. Use kerosene when cutting soft metals and oil when cutting steel to keep the blade cool and to extend the blade life. Clamp all work firmly and saw as close as possible to the clamping point to eliminate any vibration of the work being cut.

When cutting conduit, pipe or angle iron, clamp the workpiece in a vise if possible and saw close to the vise. To cut thin sheet materials, "sandwich" the material between hardboard or plywood and clamp the layers to eliminate material vibration and tearing. By doing this, the material will be cut smoothly. Lay out your pattern or cutting lines on top of the "sandwich".

BENCHMARK:

MAINTENANCE

MARNING: 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.

MARNING: 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.

MARNING: 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.

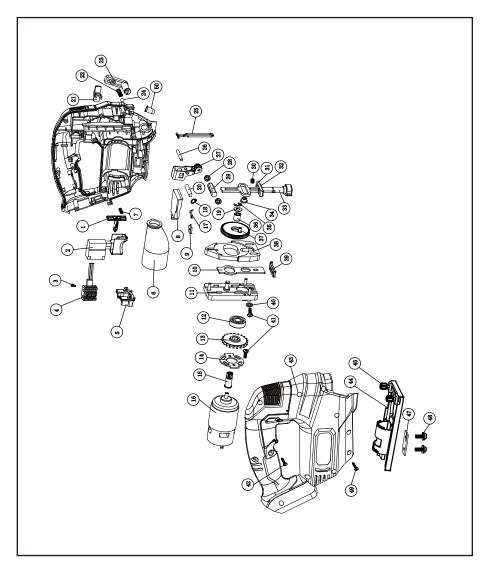
It has been found that electric tools are subjected to accelerated wear and possible premature failure when they are used on fiberglass boats and sports cars, wallboard, spackling compounds or plaster. The chips and grindings from these materials are highly abrasive to electric tool parts such as bearings, brushes, commutators, etc. Consequently, it is not recommended that this tool be used for extended work on any fiberglass material, wallboard, spackling compounds or plaster. During any use on these materials, it is extremely important that the tool is cleaned frequently by blowing the accumulated debris out with an air jet.

MARNING: Always wear safety goggles or safety glasses with side shields during all cutting operations. It is critical that you wear safety goggles or safety glasses with side shields and a dust mask while blowing dust out of the jigsaw with an air jet. Failure to take these safety precautions could result in permanent eye or lung damage.

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.

EXPLODED VIEW



PARTS LIST

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

Always order by PART NUMBER, not by key number.

Key#	Part #	Part Name	Quantity
1	3120040081	Lock on button	1
2	1060050027	Switch	1
3	4020010153	Screw	1
4	2020180023	The cooling block	1
5	1180060030	Battery lead plate	1
6	3180040121	Dust-out mouth	1
7	2050060218	Switch lock lever spring	1
8	3150130144	Blowing and suction channel	1
9	2030240008	Square nut	1
10	2030030265	Lifting knife plate	1
11	1170050012	Permanent seat	1
12	4010010043	ve ball bearing 6000	1
13	3150010113	Fan blade	1
14	2030220007	Motor flange	1
15	2040050156	Motor bolt	1
16	1030080020	Electric motor	1
17	2030030264	Adjust the position	1
18	4100020001	Elastic collar 9	1
19	2030020140	Gasket ø6Xø13X0.8	1
20	204290087	Knob shaft of lifting knife	1
21	3120120136	Blowing and sucking button	1
22	2050060012	Spring	1
23	3120060062	Rotary knob of lifting knife	1
24	4080040001	Steel ball	1
25	2050080182	Protection of steel wire	1
26	4110030001	Roller pin	1
27	1170020037	Sawing plate	1
28	3140060049	Rubber blanket	2
29	2010150051	Back support	1
30	2050060220	Spring	1
31	2010150050	Front support	1
32	2030170028	Supporting structure of oil baffle plate	1

Key#	Part #	Part Name	Quantity
33	1150010046	Reciprocating rod	1
34	2010210024	Idler wheel	1
35	4100020004	Elastic collar 6	1
36	4010020040	Needle bearing	1
37	2010010111	Big gear	1
38	2010130050	Counterbalance	1
39	3140050021	Oil baffle	1
40	4040010043	Flat washer	2
41	4020010049	Screw	4
42	4030010096	Screw	2
43	3010060015	Casing	1
44	1150020519	Aluminum plate	1
45	1180100010	Screw	2
46	2030030009	Connection plate	1
47	2030030009	Junction plate	1
48	4020080002	Screw	2
49	4030010247	Screw	10
50	1300060015	Light Emitting Diode	1

WARRANTY

BENCHMARK 20V MAX VARIABLE SPEED JIGSAW

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 VARIABLE SPEED JIGSAW



5 Year Limited Warranty Battery and charger sold separately

BENCHMARK

1268-001

Made in China

BENCHMARK TOOLS CANADA ST. JACOBS, ONTARIO NOB 2NO © 2021 Home Hardware Stores Limited

CUSTOMER SERVICE/TECH SUPPORT 1-866-349-8665



*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.



JD524820

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.





