

BENCHMARKTM MC

40V MAX[†] BRUSHLESS 16" CHAINSAW

Item # 5240-059



LIMITED
5 YEAR*
WARRANTY

Includes 2 batteries & 1 charger
5 Year Limited Warranty on tool
3 Year Limited Warranty on battery and charger



SF8J116-B

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

[†] Uses two 20V Max lithium-ion batteries that deliver an initial battery voltage (measured without a workload) of 40 volts. Nominal voltage is 36V.



**WEAR CSA APPROVED
EYE PROTECTION**



**WEAR EAR
PROTECTION**



**WEAR A
FACE MASK**

PRODUCT SPECIFICATIONS

40V MAX† BRUSHLESS 16" CHAINSAW

Voltage	40V (2 x 20V)
Chain Speed	15 m/s
Bar Length	16" (406 mm)
Max Cutting Width	14" (356 mm)
Drive Links	57
Chain Pitch	3/8" (9.5 mm)
Chain Gauge	0.05" (1.3mm)
Oil Reservoir Capacity	250 ml (8.5 oz)
Tool Operating Weight	11.15 lb (5.06 kg)

BATTERY AND CHARGER

Battery Voltage	2x20V 4Ah Li-ion (Maximum charged battery voltage, measured without load, is 20V with a nominal value of 18V)
Dual Charger	Charging time up to 140 minutes

REPLACEMENT PARTS AVAILABLE AT HOME HARDWARE

Replacement Battery	5350-011 (4Ah) 5350-012 (5Ah) 5350-049 (8Ah)
Replacement Charger	5350-024 dual 2.4A charger (charge 2.0Ah to 5.0Ah) 5350-048 dual 4A charger (charge 2.0Ah to 8.0Ah) 5350-022 6A fast charger (charge 2.0Ah to 8.0Ah)
Replacement Chain	5241-652

CHAIN OIL NOT INCLUDED WITH SAW

Suggested Spring / Summer Oil	8640-627
Suggested Fall / Winter Oil	8640-625

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:** Do not use on wet materials.

 **WARNING:** Disconnect the battery before cleaning or changing accessories.

 **WARNING:** To avoid serious personal injury, do not attempt to use this product until you have read this instruction manual thoroughly and understand it completely. If you do not understand the warnings and instructions in this instruction manual, do not use this product, Call 1-866-349-8665 for assistance. The operation of any power tool can result in foreign objects being thrown into your eyes, which can result in severe eye damage. Before beginning power tool operation, always wear safety goggles or safety glasses with side shields and when needed, a full face shield. We recommend a wide vision safety mask for use over eyeglasses or standard safety glasses with side shields. Always use eye protection which is marked to comply with ANSI Z871 or CSA requirements. Prescription eyeglasses ARE NOT a replacement for proper eye protection.







 **WARNING:** Noncompliant eyewear can cause serious injury if broken during the operation of a power tool.










ALWAYS WEAR EAR PROTECTION

 **WARNING:** Use hearing protection, particularly during extended periods of operation of the tool, or if the operation is noisy.

Safety Symbols

The purpose of safety symbols is to alert you of the potential safety RISKS. Recognize and understand them. Follow the instructions provided.

 SYMBOL	MEANING
	Failure to obey a DANGER safety alert WILL result in serious personal injury or death to you or to others. Always obey all messages following this symbol to reduce the risk of serious personal injury or death.
	Failure to obey a WARNING safety alert MAY result in serious personal injury or death to you or to others. Always obey all messages following this symbol to reduce the risk of potential serious personal injury or death.
	Failure to obey a CAUTION safety alert MAY result in personal injury or property damage to you or to others. Always obey all messages following this symbol to reduce the risk of personal injury or property damage.
 	Failure to obey a NOTICE or a CAUTION (without a safety alert) MAY result in property damage to you or to others. Always obey all messages following this symbol to reduce the risk of property damage.

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>⚠ WARNING</p>   	<p>Always wear nonslip gloves that fit properly to protect your hands and to help you grip the tool.</p> <p>Always wear sturdy clothing with long sleeves and long pants. Never operate the tool while wearing shorts, short sleeve shirts or shirtless.</p> <p>Always wear nonslip safety boots to prevent foot injuries and slipping that could cause loss of control of the tool.</p>
<p>⚠ WARNING</p> 	<p>To avoid electrical hazards, fire hazards or damage to the tool, use proper circuit protection.</p> <p>This battery charger is wired at the factory for 120 V AC operations. 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>
 	<p>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.</p>

ELECTRIC GARDENING TOOL SAFETY

GENERAL SAFETY WARNINGS

 **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.

General Electric Gardening Tool Safety Warnings - 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 liquids, fumes or dust.

Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

General Electric Gardening Tool Safety Warnings - Electrical Safety

Battery charger plugs must match the outlet, never modify the plug in any way.

Do not use any adapter plugs with earthed (grounded) chargers. Unmodified plugs and matching outlets will reduce risk of electric shock.

Avoid body contact with earthed or grounded surfaces such as water pipes. There is an increased risk of electrical shock if your body is earthed or grounded.

Do not expose power tools, battery chargers or batteries to rain or wet conditions. Water entering the tool, chargers or batteries will increase the risk of electric shock.

Do not abuse the cord. Never use the power cord for carrying, pulling or unplugging the charger. Keep the power cord away from heat, oil, sharp edges, and moving parts. Damaged or entangled cords increase the risk of electric shock.

When operating the charger outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.

Never operate a power tool in the rain.

If operating a charger in a damp location is unavoidable, use a residual current device (RCD) protected supply. An RCD is also known as a ground fault circuit interrupter (GFCI) or earth leakage circuit breaker (ELCB). Use of an RCD reduces the risk of electric shock.

PERSONAL SAFETY

Stay alert, watch what you are doing and use common sense when operating a chainsaw. Do not use a chainsaw while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating chainsaws may result in serious personal injury.

Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, nonskid 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 chainsaw may result in personal injury.

Do not overreach, Keep proper footing and balance at all times. This enables better control of the chainsaw 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 let familiarity gained from frequent use of machines allow you to become complacent and ignore machine safety principles. A careless action can cause severe injury within a fraction of a second.

CHAINSAW USE AND CARE

- **Do not force the chainsaw. Use the correct chainsaw for your application.** The correct chainsaw will do the job better and safer at the rate for which it was designed.
- **Do not use the chainsaw if the switch does not turn it on and off.** Any chainsaw that cannot be controlled with the switch is dangerous and must be repaired.
- **Disconnect the plug from the power source or batteries before making any adjustments changing accessories, or storing chainsaws.** Such preventive safety measures reduce the risk of starting the chainsaw accidentally.
- **Store idle chainsaws out of the reach of children and do not allow persons unfamiliar with the chainsaw or these instructions to operate the chainsaw.** Chainsaws are dangerous in the hands of untrained users.
- **Maintain chainsaws.** Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the chainsaw's operation. If damaged, have the chainsaw repaired before use. Many accidents are caused by poorly maintained chainsaws.
- **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 chainsaw and accessories in accordance with these instructions, taking into account the working conditions and the work to be performed.** Use of the chainsaw for operations different from those intended could result in a hazardous situation.
- **Hold power tools by insulated gripping surfaces when performing an operation where the saw 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.

- **Keep handles and grasping surfaces dry, clean, and free from oil and grease.** Slippery handles and grasping surfaces do not allow for safe handling and control of the machine in unexpected situations.

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.

CHAINSAW SPECIFIC SAFETY RULES

Keep all parts of the body away from the saw chain when the chainsaw is operating. Before you start the chainsaw, make sure the saw chain is not contacting anything. A moment of inattention while operating chainsaws may cause entanglement of your clothing or body with the saw chain.

Note: The size of the work area depends on the job being performed as well as the size tree or work piece involved. For example, felling a tree requires a larger work area than making bucking cuts.

Always hold the chainsaw with your right hand on the rear handle and your left hand on the front handle. Holding the chainsaw with a reversed hand configuration increases the risk of personal injury and should never be done.

Maintain a firm grip, with thumbs and fingers encircling the chainsaw handles, with both hands on the saw and position your body and arm to allow you to resist kickback forces. Kickback forces can be controlled by the operator, if proper precautions are taken. Do not let go of the chainsaw.

Hold the chainsaw by insulated gripping surfaces only, because the saw chain may contact hidden wiring or its own cord. Saw chains contacting a live wire may make exposed metal parts of the chainsaw live and could give the operator an electric shock.

Wear safety glasses and hearing protection. Further protective equipment for head, hands, legs and feet must be worn. Adequate protective clothing will reduce personal injury by flying debris or accidental contact with the saw chain.

Do not operate a chainsaw in a tree. Operation of a chainsaw while up in a tree may result in personal injury.

Always keep proper footing and operate the chainsaw only when standing on fixed, secure and level surface. Slippery or unstable surfaces such as ladders may cause a loss of balance or control of the chainsaw.

When cutting a limb that is under tension be alert for springback. When the tension in the wood fibres is released, the limb under tension may strike the operator and/or throw the chainsaw out of control.

Use extreme caution when cutting brush and saplings. The slender material may catch the saw chain and be whipped toward you or pull you off balance.

Carry the chainsaw by the front handle with the chainsaw switched off and away from your body. When transporting or storing the chainsaw always fit the guide bar cover. Proper handling of the chainsaw will reduce the likelihood of accidental contact with the moving saw chain.

Always use two hands when operating the chainsaw.

Contact of the guide bar tip with any object must be avoided.

⚠️ WARNING: Tip contact may cause the guide bar to move suddenly upward and backward which may cause serious injury.

Follow instructions for lubricating, chain tensioning and changing the bar and chain. Improperly tensioned or lubricated chain may either break or increase the chance for kickback.

Keep handles dry, clean, and free from oil and grease. Greasy, oily handles are slippery causing loss of control.

Cut wood only. Do not use chainsaw for purposes not intended. For example: do not use chainsaw for cutting plastic, masonry or non-wood building materials.

Use of the chainsaw for operations different than intended could result in a hazardous situation.

Do not start the chainsaw with the guide bar cover installed on it. Starting the saw with the chain cover installed on it may cause the chain cover to be thrown off forward resulting in personal injury and damage to objects around the operator.

Before starting work, check that the chainsaw is in proper working order and that its condition complies with the safety regulations. Check that:

*The bar and sprocket cover are fitted correctly.

*The chain has been sharpened and tensioned in accordance with the instructions provided.

⚠️ WARNING: Some dust created by power sanding, sawing, grinding drilling, and other construction activities contain chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are: 1. Lead from lead-based paints. 2. Crystalline silica from bricks and cement and other masonry products, and 3. Arsenic and chromium from chemically-treated lumber. Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals, work in a well-ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

Use the chainsaw and accessories etc. in accordance with these instructions, taking into account the working conditions and the work to be performed, Use of the chainsaw for operations different from those intended could result in a hazardous situation.

CAUSES AND OPERATOR PREVENTION OF KICKBACK

⚠️ WARNING: Kickback may occur when the moving chain contacts an object at the upper portion of the tip of the guide bar or when the wood closes in and pinches the saw chain in the cut. Contact at the upper portion of the tip of the guide bar can cause the chain to dig into the object and stop the chain for an instant. The result is a lightning fast reverse reaction which kicks the guide bar up and back toward the operator. If the saw chain is pinched along the top of the guide bar, the guide bar can be driven rapidly back toward the operator. Either of these reactions can cause loss of saw control which can result in serious injury. Do not rely exclusively upon

the safety devices built into the saw. As a chainsaw user, you should take several steps to keep your cutting jobs free from accident or injury.

Maintain a firm grip, with thumbs and fingers encircling the chainsaw handles, with both hands on the saw and position your body and arm to allow you to resist kickback forces. Kickback forces can be controlled by the operator, if proper precautions are taken. Do not let go of the chainsaw.

Do not overreach and do not cut above shoulder height. This helps prevent unintended tip contact and enables better control of the chainsaw in unexpected situations.

Only use replacement bars and chains specified by the manufacturer. Incorrect replacement bars and chains may cause chain breakage and/or kickback.

Follow the manufacturer's sharpening and maintenance instructions for the saw chain. Decreasing the depth gauge height can lead to increased kickback.

With a basic understanding of kickback, you can reduce or eliminate the element of surprise. Sudden surprise contributes to accidents.

⚠ Attention! It is recommended that first time user should practice cutting logs on a sawhorse or frame by removing the battery.

Vibration and noise reduction

To reduce the influence of vibration and noise, limit working hours and wear personal protective equipment. Observe the following points to minimize vibration and noise exposure:

1. Use the product only in accordance with its design and instructions.
2. Ensure that the product is in good condition and well maintained.
3. Use the correct accessories and ensure that they are in good condition.
4. Hold the product firmly but not tightly by the handles provided.
5. Maintain the product according to these instructions and keep it well lubricated.
6. Plan your working hours according to these instructions in order to spread a higher load over a longer period of time.


Residual risks

Even if you operate this power tool correctly, there are always residual risks. The following hazards may occur in connection with the construction and design of this power tool:

- a) Injuries and material damage caused by flying parts.
- b) Hearing damage if you do not wear suitable hearing protection or use the power tool for a long period of time.
- c) Damage to health resulting from hand-arm vibrations if the power tool is used for an extended period of time or is not properly operated and maintained.

BATTERY & CHARGER SAFETY

FOR BATTERY PACK

 **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.


1. FOR BATTERY PACK

- a) Before using the battery pack, read all instructions and cautionary markings on battery and product using battery pack.
- b) If operating time has become excessively shorter, stop operating immediately to avoid the risk of overheating and possible burns.
- c) Do not short the battery pack:
 - 1) Do not touch the terminals with any conductive material.
 - 2) Avoid storing battery pack in a humid environment.
 - 3) Do not expose the battery pack to water or rain. A short circuit of the battery can cause a large current flow, overheating, possible burns and even a breakdown.
- d) Do not store the tool and battery pack in locations where the temperature may exceed 105° F (40.5° C).
- e) Do not incinerate the battery pack even if it is severely damaged or is completely worn out. The battery pack can explode in a fire.
- f) Be careful not to drop or strike the battery.
- g) Do not use a damaged battery.

2. FOR CHARGER

- a) Before charging, study the instruction manual carefully.
- b) Before charging the battery, connect the power cord into the power supply first and then connect the battery pack with the charger. Once the battery is fully charged, disconnect the power supply after removing the battery pack from the charger.
- c) This device is for indoor use only. Do not expose the charger to rain, snow, or other extreme climate conditions. Do not use power tools in damp or wet locations.
- d) Correct use: chargers are to be used exclusively for charging 20V Benchmark rechargeable battery packs. Any other application may result in risk of fire, electric shock, or electrocution. The user bears sole responsibility for any damage caused by inappropriate use.
- e) The charger is specifically designed to charge 20V Max Benchmark battery packs. Do not attempt to charge any other battery with this charger.
- f) To reduce risk of damage to electric plug and cord, pull by plug rather than cord when disconnecting charger.
- g) Make sure cord is appropriately located so that it will not be stepped on, tripped over, or otherwise subject to damage or stress.
- h) Do not operate charger with damaged cord or plug. Please replace immediately.
- i) Do not operate charger if it has received a sharp blow, been dropped, or otherwise damaged in any way.
- j) Do not disassemble charger, please contact toll free service at 1-866-349-8665. Incorrect reassembly may result in a risk of electric shock or fire.

- k) To reduce risk of electric shock, unplug charger from outlet before attempting any maintenance or cleaning.
- l) Charging must only be performed when the battery pack temperature is between 41° F / 5° C and 105° F /40.5° C.
- m) The charger is designed to operate on standard household electrical power. Do not attempt to use it on any other voltage.
- n) Unplug the charger immediately if there is any sign of smoke or flame.
- o) Do not drill into the housing of the charger or battery pack.
- p) Keep the charger away from children.

 **WARNING:** The parts inside the charger are live and can create a shock. Do not stick anything in the battery charger terminal slots.

3. SAFETY PRECAUTION WHEN USING CHARGER AND BATTERY

- a) Do not charge battery when temperature is below 40° F /5° C or above 105° F / 40.5° C. The most suitable temperature for charging is that of 68-77° F /20-25° C.
- b) Do not insert objects into the hole reserved for the battery in the charger.
- c) Never short circuit the battery. Short circuiting the battery will severely damage the battery and could cause a fire or explosion.
- d) This appliance is not intended for use by persons, including children, or those with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible of their safety.
- e) Children should be supervised to ensure that they do not play with the tool.
- f) Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities.
- g) If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the food chain, damaging your health and well-being.
- h) If the cord is damaged, it must be replaced by the manufacturer or similarly qualified persons to avoid a hazard.

4. DISPOSAL OF THE EXHAUSTED BATTERY

For safety and to preserve natural resources, please recycle or dispose of properly. This product contains lithium-ion. Battery must be disposed of properly. Local, provincial, or federal laws may prohibit disposal of lithium-ion batteries in ordinary trash. Consult your local waste authority for information regarding available recycling and/or disposal options.

5. PREPARATION FOR RECYCLING OF BATTERY PACK

Do not attempt to destroy or disassemble the battery pack or any of its components. Do not touch terminals with metal objects as short-circuit may result. Keep away from children. Failure to comply with these warnings could result in fire and/or serious injury.

6. TIPS FOR MAINTAINING MAXIMUM BATTERY LIFE

- a) Charge the battery pack before completely discharged. Always stop tool operation and charge the battery pack when you notice a decrease in tool power.
- b) Charge the battery pack between 41-105° F (5-40.5° C). Let a hot battery pack cool down before charging it.
- c) Charge the battery pack once every 6 months if you do not use it for a long period of time. Li-ion battery is known to self-discharge over time.
- d) 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.
- e) 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 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.

RECYCLING AND DISPOSAL

 **WARNING:** Do not dispose of batteries/rechargeable batteries into household waste!












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.

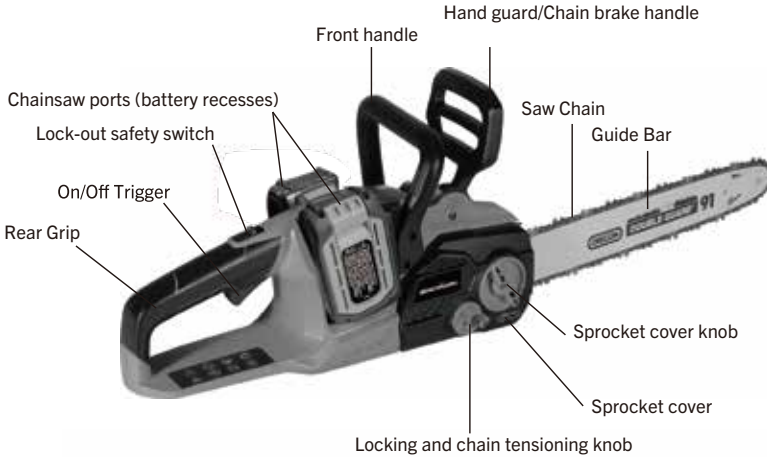
SAFETY SYMBOLS

	Read the user manual before using the machine.		Warning! Danger! Note!
	Whenever the tool is in use, safety goggles must be worn to safeguard against flying objects. Ear protectors, such as a soundproof helmet must be worn to protect the operator's hearing. If the operator is working in an area where there is a risk of falling objects, a safety helmet must also be worn.		Do not expose to rain.
			Wear safety boots to protect against electric shock.
			Wear gloves to protect your hands.
			ATTENTION! Do not throw the battery into the household waste.
	Li-ion battery		Do not expose the battery to strong sunlight for long periods of time and do not place it on radiators (max. 122° F / 50°C).
	Protection temperature limitation.		The charger is suitable for indoor use only.

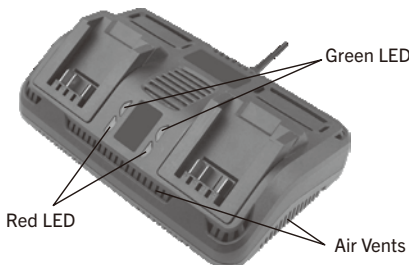


This symbol designates that this tool is listed with Canadian and U.S requirements by cSUDus Testing Laboratories, Inc.
 UL 60745-1:2007/R:2019-01
 CAN/CSA-C22.2 No.60745-1-07/R:2019-01
 UL 60745-2-13:2011/R:2017-02
 CAN/CSA-C22.2 No.60745-2-13-11/R:2017-02

KNOW YOUR 40V 16" BRUSHLESS CHAINSAW



Dual Charger 5350-024



Replacement
5Ah battery 5350-012



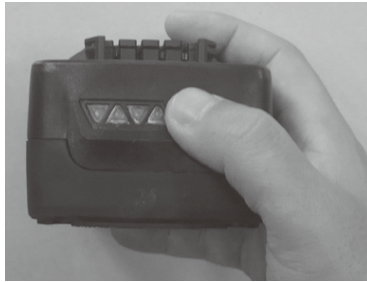
CHECKING THE BATTERY CHARGE STATUS

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 60Hz 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.

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 flash. The flashing 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 140 minutes.
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.

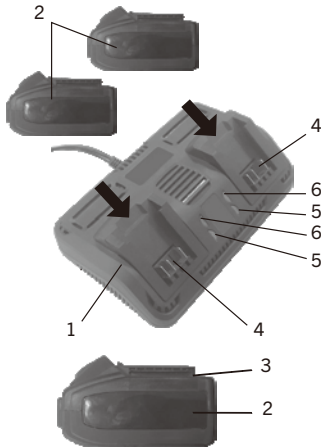


FIG. 1

GREEN LIGHT	RED LIGHT	BATTERY INSERTED INTO CHARGER	SYMBOL	CHARGING STATUS
ON	OFF	NO	NONE	CHARGER CONNECTED TO POWER SUPPLY
OFF	FLASHING	YES		BATTERY BEING CHARGED
ON	OFF	YES		BATTERY FULLY CHARGED
OFF	ON	YES		DEFECTIVE-BATTERY IS CHARGED BUT NOT OPERATIONAL ON TOOL
ON	ON	YES		CHARGING CONDITIONS ARE EITHER TOO HOT OR TOO COLD

FIG. 2

ASSEMBLY AND OPERATION

INSTALLING THE BATTERY PACKS

1. To insert the batteries (1) (FIG. 3) into the device, push the batteries along the guide rails (3) (FIG. 3) into the device. You will hear them click into place.
2. To remove the batteries (1) (FIG. 3) from the device, press the release button (2) (FIG. 3) on the batteries and pull the batteries out.



⚠ WARNING: Always wear protective gloves when working with the chainsaw and employ only original parts. Pull out the power plug before doing any work on the chainsaw itself - injury hazard!

Before putting the electric chain saw into operation, you must:

1. Adjust the saw chain tension.
2. Pour in chain oil.
3. Charge and insert both batteries.
4. Check the function of the chain brake and the automatic oil pump.

MOUNTING THE GUIDE BAR AND CHAIN

⚠ WARNING: Switch off the saw and remove the battery before carrying out any maintenance work.

1. Lay the saw on a flat surface.
2. Turn the sprocket cover knob (3) Counter-clockwise to remove the sprocket cover (5) (FIG.4).
3. Spread the chain (1) out into a loop with the cutting edges running clockwise. Use the graphical symbol on the blade or below the chain sprocket as a guide to align the saw chain (1) (FIG.4).



Direction of travel of the saw chain

4. Slide the saw chain (1) into the bar guide groove. To mount the guide bar, raise it to an angle of approx. 45 degrees. This will make it easier to replace the saw chain (1) onto the sprocket (8) (FIG.4).

5. Place the chain bar (2) and saw chain (1) on the bar bolts. When the pin (7) to the right of the coach screw (6) sits in the slotted recess on the blade, the blade is placed correctly. It is normal that the saw chain (1) is slack (FIG.4).
6. Position the sprocket cover knob (5) and the chain tensioner pin (9) on the inside of the sprocket cover (5). They must be guided into the chain tension pin holder (10) (FIG.4).
7. Pre-tension the saw chain (1) by turning the locking and chain tensioning knob (4) clockwise (8) (FIG.4).
8. Tighten the Sprocket cover knob (3) (FIG.4).

⚠ WARNING: Before installing the bar onto the tool, ensure that all the chain teeth lie in the groove along the edge of the bar.

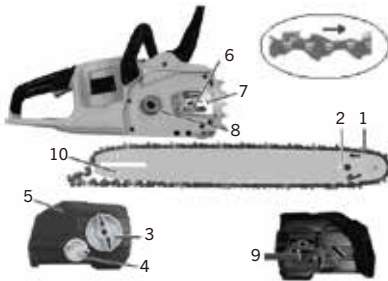


FIG. 4

TENSIONING THE SAW CHAIN

⚠ WARNING: Always switch off the tool and remove the batteries from the tool before checking and adjusting.

Always wear protective gloves when working on the chainsaw to avoid injury.

⚠ WARNING: For safety and to reduce wear, chain tension needs to be verified and adjusted regularly or after 10 minutes of continued use, to compensate for change in wear and temperature.

To check the tension, pluck the chain anywhere halfway along the bar. The clearance between the underside of the chain and the bar should be $\frac{1}{8}$ "- $\frac{5}{32}$ " (3-4mm).

SAW CHAIN LUBRICATION

This saw is equipped with an automatic oiler. With this type of oiler, lubricant is released at a constant rate from the oil reservoir on to the bar and chain when the chainsaw is operated.

⚠ WARNING: Do not re-tighten or change the chain when it is hot because it shrinks slightly once it has cooled down. In case of non-observance, this can lead to damages on the guide rail or the engine because now the chain is too taut on the blade. Chain tension and chain lubrication have a significant impact on the service life of the chain.

⚠ Always remove the batteries before checking or adjusting and wear gloves to prevent injury.

⚠ To prevent damaging the chain, never operate it without lubricating oil or with it below the low mark.

Chainsaw oil is red in colour to enhance visibility through the chain oil reservoir window.

⚠ WARNING: Observe temperature conditions: Different ambient temperatures require lubricants with a very different viscosity. At low temperatures you need thin oils (low viscosity) to produce a sufficient lubricating film. If you use the same oil in summer, it would be liquefied further by the higher temperatures alone. This can cause the lubricating film to break off, overheating the chain and damaging it.

FILLING RESERVOIR WITH CHAIN OIL:

- A) Place the saw on a level surface.
- B) Clean the area around the chain oil reservoir cap (1) (Fig.5).
- C) Chain saw oil is recommended as lubricant.
- D) To prevent blocking the chain oil feeding tip, this operation requires extreme care to prevent the ingress of dirt of any kind.
- E) Remove the cap (2) (Fig.5). Note: to prevent placing it on a dirty surface and/or misplacing it, it is attached to the tool by a string.
- F) Fill the reservoir with oil to the full mark.
- G) Replace the cap and tighten it.

⚠ WARNING: Always switch off the chainsaw and allow the motor to cool before filling with chain oil. There is a risk of fire if oil overflows.

Checking the oil automatic system:

Check the oil level and the automatic oil system before commencement of work. Switch on the chainsaw and hold it above a bright background. The saw must not touch the ground. If an oil trace can be seen, the chainsaw auto oiling feature is working trouble-free.



FIG.5

CHANGING THE SAW BAR

1. Switch the tool off and remove batteries.
2. Lay the saw on a flat surface.
3. Turn the sprocket cover knob (1) and the chain tensioning knob (2) counter-clockwise to loosen the chain tensioning and to remove the sprocket cover (3) (Fig.6).
4. Remove the saw bar (4) and saw chain (5). To remove the guide bar (4) raise it to an angle of approx.45 degrees. This will make it easier to take the saw chain (5) off the sprocket (6) (FIG.6).
5. Replace the blade and install the blade and chain as described under "Mounting the saw chain and bar".

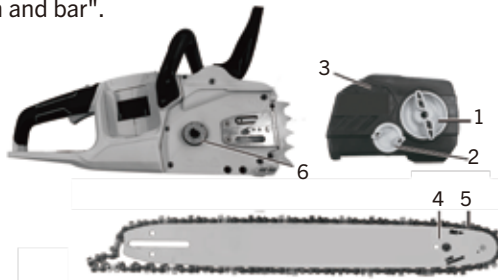


FIG. 6

WORKING WITH THE CHAINSAW

1. Preparation

Before each use, check the following points to ensure that you can work safely.

2. Condition of the chainsaw

Before starting work, inspect the chainsaw for damage to the housing, battery, saw chain and bar. Never operate an obviously damaged device.

3. Important! Oil Reservoir

Never operate the chainsaw if there is no oil or the oil level has dropped below the minimum mark to avoid damaging the chainsaw. On average, one filling will last for 15 minutes, depending on the pauses and load. You must periodically check the oil level while using the chainsaw to ensure the oil level remains adequate. **There is no electric shut off for low gear oil.**

4.SAW CHAIN

Tension of the chainsaw and the condition of the cutting edges is very important. The sharper the saw chain, the easier and more controllable the chainsaw can be operated.

The same applies to the chain tension, Check the chain tension every 10 minutes during work to increase your safety! Chains (especially new chains) have the tendency to expand with heat and may become loose on the chainsaw.

5. CHAIN BRAKE

Check the function of the chain brake as described on page 21.

6. PROTECTIVE CLOTHING

It is essential that you wear the appropriate, tight-fitting protective clothing such as cut-resistant trousers.

7. HEARING PROTECTION AND SAFETY GLASSES

Wear a protective helmet with integrated hearing and face protection during felling and forest work. This provides protection from falling branches.

NOTE: This tool is equipped with soft start. This feature is designed to make the initial startup smoother and more controlled. When the tool is started, it will gradually increase in power instead of delivering full power immediately. This helps reduce the stress on the engine and the user's arms during the starting process.

 **WARNING: Switch on the chainsaw only when chain bar, saw chain and sprocket chain wheel covering are correctly assembled.**

Make sure you have a secure stance. Before starting, ensure that the electric chainsaw is in contact with no objects.

STARTING THE CHAINSAW

1. Install both batteries on the chainsaw. **The chainsaw will not operate without both batteries installed.**
2. Locate the ON/OFF trigger. Note, to prevent accidental starts, this tool is equipped with a lock-out safety switch. Therefore, press and hold this switch forward before pulling the ON/OFF trigger.
3. As an additional safety measure, this saw is equipped with a chain brake system that stops the chain in approximately 0.12 seconds.
4. **The chainsaw will not run with the chain brake engaged.** To disengage the brake, pull the hand guard/chain brake handle (5) (Fig.7) back toward the front chainsaw handle (4) until it "clicks".

NOTE: The chain brake serves as a safety feature designed to protect the user in case of kickback, which is when the chain suddenly jerks upward and back toward the operator. This can happen if the nose of the saw hits an object or if the chain becomes pinched during cutting. The chain brake activates either manually or automatically, in response to kickback, stopping the chain from rotating instantly. **The chain brake MUST be disengaged to run the saw.**

5. When operating hold the chainsaw firmly with both hands, with the right hand on the rear grip (1) and the left hand on the front handle (4). The thumb and finger must close securely over the handles.
6. The chainsaw will turn off once you release the ON/OFF trigger.

IMPORTANT - Check the chain brake function regularly. To do this, engage the hand guard/chain brake handle by pushing it forward and switch the chainsaw on briefly. The saw chain must not start.


 **WARNING:** Do not use the chainsaw if the brake does not function properly. Do not attempt to repair. Contact customer service @ 1-866-349-8665 or a qualified repair service.



FIG. 7

GENERAL USE

1. Cutting down a tree (Fig. 8-11)

If two or more persons cut and fell at the same time, the distance between the cutting and cutting persons should be at least twice the height of the tree to be cut. (Fig.8) When felling trees, care must be taken that other persons are not exposed to danger, that no supply lines are hit and that no material damage is caused. If a tree comes into contact with a supply line, the supply company must be informed immediately. When sawing on slopes, the chainsaw operator should be on the ground above the tree to be cut, as the tree is likely to roll or slide downhill after cutting (Fig.9).

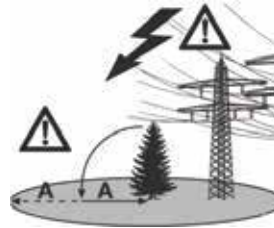


FIG. 8



FIG. 9

Before cutting, an escape route must be planned and if necessary, cleared.

The escape route must lead diagonally from the expected fall line to the rear, as shown in Fig. 10 (A=danger zone, B = fall direction, C = escape area). Before felling, the natural inclination of the tree, the position of larger branches and the wind direction must be taken into account in order to assess the fall direction of the tree. Remove dirt, stones, loose bark, nails, staples and wire from the tree.



FIG. 10

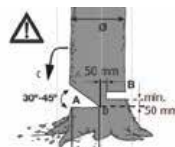


FIG. 11a

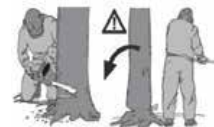


FIG. 11b

2. Set notch cut (Fig. 11a)

Saw a notch (A) at right angles to the direction of fall with a depth of 1/3 of the tree diameter, as shown in (Fig. 11a). First make the bottom horizontal notch (A). This will avoid jamming the saw chain or guide bar when setting the second notch.

3. Setting the felling cut (Fig. 11a/11b)

Place the felling cut at least 2" / 50 mm above the horizontal notch cut. Make the felling cut (B) parallel to the horizontal notch cut. Saw the felling cut only deep enough to leave a web (felling bar) (D) which can act as a hinge. The bridge prevents the tree from turning and falling in the wrong direction. Do not saw through the bridge. When the felling cut approaches the bridge, the tree should begin to fall. If it appears that the tree may not fall in the desired fall direction (C) or may tilt back and clamp the saw chain, interrupt the felling cut and use wedges as wood, plastic or aluminum to open the cut and turn the tree to the desired fall line.

When the tree begins to fall, remove the chainsaw from the cut, turn it off, lay it down and leave the danger area via the planned escape route, Watch out for falling branches and do not trip.

4. Delimiting

This is the separation of the branches from the felled tree. When pruning, leave larger branches pointing downwards to support the tree for the time being. Keep smaller branches away from the ground as shown in (Fig.12) (A=Direction of cut when pruning, B=Distance from ground).

Leave supporting branches standing until the trunk is sawn with a cut. Branches that are under tension should be sawn from bottom to top to avoid jamming the saw.

5. Cut tree trunk to length

This means dividing the felled tree into sections. Make sure that you stand securely and that your body weight is evenly distributed on both feet, if possible, the trunk should be supported by branches, beams or wedges. Follow the simple instructions for light sawing. When the entire length of the log is evenly supported, as shown in (Fig.13), saw from above. Be careful not to cut into the ground.

If the log is resting on one end, as shown in (Fig.14), first saw 1/3 of the log diameter from the bottom (A) to avoid splintering. Make the second cut from above (2/3 diameter) at the level of the first cut (B) (to avoid jamming).

When the log rests on both ends, as shown in (Fig.15), first saw 1/3 of the log diameter from the top to avoid splintering (A). Make the second cut from below (2/3 diameter) at the level of the first cut (B) (to avoid jamming).

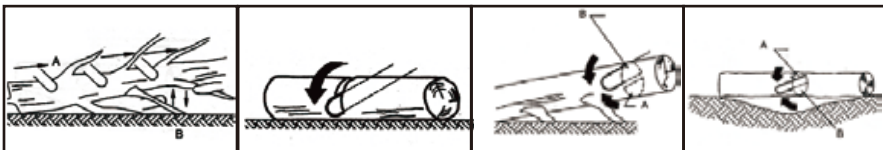


FIG. 12

FIG. 13

FIG. 14

FIG. 15

When sawing on slopes, always stand above the tree trunk, as shown in (Fig.9). To maintain full control at the moment of sawing, reduce the contact pressure towards the end of the cut without loosening the firm grip on the handles of the chainsaw. Make sure that the saw chain does not touch the ground. When the cut is complete, wait for the saw chain to stop before removing the chainsaw. Always switch off the chainsaw motor before changing from tree to tree.

6. Kickback

Kickback is the sudden up and backstroke of the running chainsaw. The causes are usually touching the workpiece with the tip of the guide bar or jamming the saw chain. Particularly with lateral cuts, inclined cuts and longitudinal cuts, the danger of kickback is particularly great because the claw stop cannot be used. Avoid such cuts as much as possible and work carefully if they cannot be avoided!

The danger of kickback is greatest if you place the saw in the area of the tip of the bar, because this is where the leverage is strongest (Fig. 16). Always place the saw flat and close to the claw (Fig. 17).

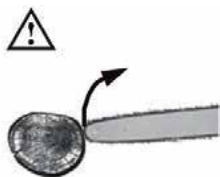


FIG. 16



FIG. 17



Always pay attention to the correct chain tension!
 Only use a chainsaw that is in proper working order and is not damaged.
 Only work with a saw chain that has been properly sharpened!
 Never saw over shoulder height!
 Never saw with the top edge or tip of the bar!
 Always hold the chainsaw firmly with both hands!
 If possible, always use the claw stop as a lever.

7. Sawing of wood under tension

Sawing wood that is under tension requires special care! Wood under tension, which is released from tension by sawing, sometimes reacts completely uncontrolled. This can lead to serious or even fatal injuries (Fig. 18-20). Such work may only be carried out by trained specialists.



FIG. 18

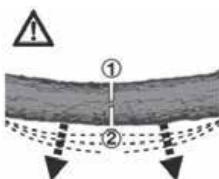


FIG. 19

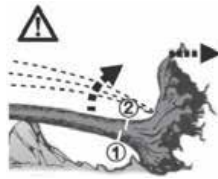


FIG. 20

MAINTENANCE

1. Replace saw chain and guide bar

The guide bar must be replaced when the guide groove of the guide bar is worn out. The spur gear on the bar is damaged or worn.

Proceed as described in "Mounting the guide bar and saw chain".

- a) Checking the automatic chain lubrication.
- b) Regularly check the function of the automatic chain lubrication to prevent overheating and associated damage to the bar and saw chain. To do this, point the tip of the bar against a smooth surface (board, pruning a tree) and let the chainsaw run.

If there is an increasing trace of oil during this process, the automatic chain lubrication works perfectly.

2. Sharpening the saw chain


Effective work with the chainsaw is only possible if the saw chain is in good condition and sharp. This also reduces the risk of kickback.

The saw chain can be resharpened by any specialist dealer. Do not try to sharpen the saw chain yourself if you do not have a suitable tool and the necessary experience.

3. Cleaning and storage

- a) Clean the clamping mechanism regularly by blowing it out with compressed air or cleaning it with a brush.
- b) Do not use tools for cleaning.
- c) Keep the handles oil-free to ensure a secure grip.
- d) If necessary, clean the appliance with a damp cloth and, if necessary, with a mild detergent.
- e) If the chainsaw will not be used for a long period of time, remove the chain oil from the tank.

Place the saw chain and the bar briefly in an oil bath and then wrap them in oiled paper.

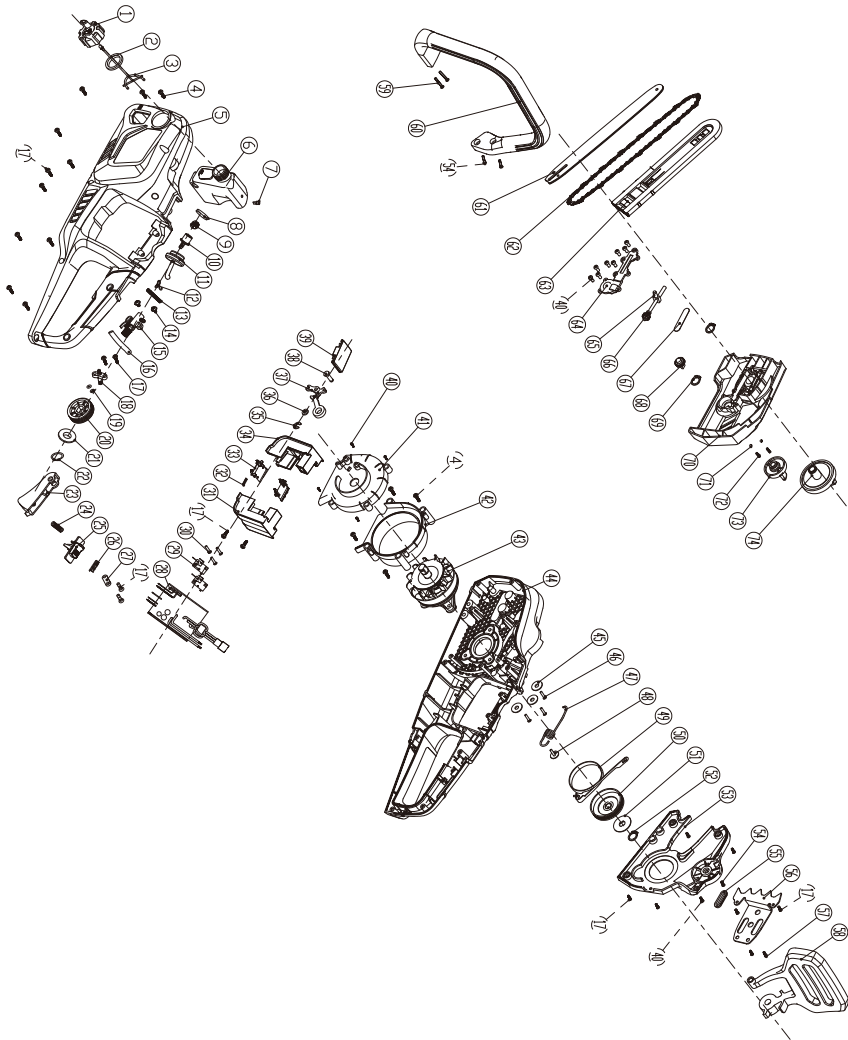
 **WARNING:** Before each cleaning, switch off the device and pull out the battery. Never immerse the device in water or other liquids for cleaning. Keep the chainsaw in a safe and dry place and out of the reach of children.

4. Information on environmental protection & disposal



Once the device has become unusable, ensure that it is disposed of properly. Do not dispose of the device with household waste, but hand it over to a collection point for electrical appliances in the interests of environmental protection. Your local authority will be happy to inform you about addresses and opening hours.

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 chainsaw.

Any attempt to repair or replace electrical parts on this chainsaw 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 from 9am to 5pm Eastern Standard Time.

Always order by key number.

Key #	Part #	Part Name	Quantity
1	391-7J16102	Oil tank cap	1
2	128-7J10104	Oil tank cap ring	1
3	431-7J14501	Hanger	1
4	131-ABBD40-16	Screw 4x16	13
5	303-8J11602	Left handle	1
6	207-8J11601	Oil tank	1
7	432-7J10101	Valve	1
8	261-7J10101	Oil tank connector block	1
9	272-7J10101	Sponge	1
10	262-7J10301	Oil tank connector	1
11	255-8J11001	Oil inlet pipe	1
12	344-7J13703	Oil pipe latch spring	1
13	344-8J11002	Oil inlet spring	1
14	131-NBCD30-08	Screw 3x8	2
15	421-7J15101	Oil pump assy	1
16	255-7J14101	Oil outlet pipe	1
17	131-ABBD40-12	Screw 4x12	14
18	438-8J10901	Oil outlet nozzle	1
19	128-7J10101	"O" seal ring	2
20	231-8J10901	Gear worm	2
21	129-7J11002	Big gear washer	1
22	130-G1201	Shaft ring	1
23	296-8J11601	Trigger	1

Key #	Part #	Part Name	Quantity
24	344-7J12201	Switch spring	1
25	293-8J11501	Anti self lock	1
26	344-7A61001	Push rod spring	1
27	220-7J10101	Crimping plate	1
28	158-8J11612	PCB board	1
29	139-8A11001	Micro-switch	2
30	131-NBCD30-18	Screw 3x18	3
31	385-8A21301	Battery holder Top cover	1
32	182-8A11002	Connecting plate	1
33	246-8A21301	Insert holder	2
34	385-8A21302	Battery holder Lower cover	1
35	130-E0401	Retaining ring	1
36	129-A0502	Fly-washer	1
37	324-8J11601	Pull rod assy	1
38	232-8J10902	Location pin	1
39	216-8A11001	Cover	1
40	131-ABBD30-10	Screw 3x10	13
41	385-8J11601	Air guide cover	1
42	318-8J11601	Fan cover	1
43	114-8J11601	Motor	1
44	303-8J11601	Right handle	1
45	129-A0509	Flat washer	3
46	131-ABDD05-14	Screw M5x14	3
47	344-8J10901	Spring	1
48	131-NBCD40-12	Screw 4x12	1
49	376-8J11601	Brake band	1
50	375-8J11601	Brake ring	1
51	179-7J30502	Sprocket gasket	1
52	130-G1001	Shaft ring	1
53	216-8J11601	Right housing cover	1
54	131-ABAD50-16	Screw 5x16	3
55	128-7J10901	Annular sealing ring	1
56	286-8J11601	Spike bumper	1

Key #	Part #	Part Name	Quantity
57	131-EBCD40-12	Screw 4x12	2
58	216-8J11602	Front guard	1
59	131-ABCD50-65	Screw 5x65	2
60	303-8J11603	Front handle	1
61	223-14	Guide bar	1
62	372-14	Saw chain	1
63	195-7J11605	Bar cover	1
64	220-8J11001	Adjusting pressure plate	1
65	232-8J11001	Adjusting pin	1
66	131-8J11001	Adjusting bolt	1
67	128-7J15601	Cover sealing ring	1
68	359-8J11001	Adjusting gear	1
69	130-G1301	Shaft ring	2
70	216-8J11603	Sprocket cover	1
71	370-7J11501	Steel ball	2
72	344-8J11001	Small spring	2
73	295-8J11001	Adjusting knob	1
74	295-8J11002	Pressing knob	1

WARRANTY

BENCHMARK 40V MAX[†] BRUSHLESS 16" CHAINSAW 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 years for the battery and the 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.

40V MAX[†] BRUSHLESS 16" CHAINSAW



Includes 2 batteries & 1 charger
5 Year Limited Warranty on tool
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

5240-059

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.



SF8J116-B

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

[†] Uses two 20V Max lithium-ion batteries that deliver an initial battery voltage (measured without a workload) of 40 volts. Nominal voltage is 36V.



**WEAR CSA APPROVED
EYE PROTECTION**



**WEAR EAR
PROTECTION**



**WEAR A
FACE MASK**