

BENCHMARKTM MC

20V MAX[†] BRUSHLESS 6" PRUNING CHAINSAW

Item # 5240-057



Includes 1 battery & 1 charger
5 Year Limited Warranty
3 Year Limited Warranty on Battery and Charger



**READ ALL INSTRUCTIONS BEFORE FIRST USE.
KEEP THIS MANUAL FOR FUTURE REFERENCE.
KEEP AWAY FROM CHILDREN.
SEE NEXT PAGE FOR CRITICAL TOOL RELATED
PRECAUTIONS.**

[†] Maximum initial battery voltage (measured without a workload)
is 20 volts. Nominal voltage is 18 volts.



**WEAR CSA APPROVED
EYE PROTECTION**



**WEAR EAR
PROTECTION**



**WEAR A
FACE MASK**

PRODUCT SPECIFICATIONS

20V MAXⁱ BRUSHLESS 6" PRUNING CHAINSAW

No Load Speed	5,100 RPM
Chain Speed	7.9 m/s
Bar Length	6" (152 mm)
Max Cutting Width	6" (152 mm)
Chain Gauge	0.043" (1.1 mm)
Chain Pitch	0.3" (7.6 mm)
Oil Reservoir Capacity	40 ml (1.4 oz)
Drive Link Count	32
Tool Operational Weight	3.56 Lbs (1.61 kg)

BATTERY AND CHARGER

Battery Voltage	20V 2.5Ah Li-ion (Maximum charged battery voltage, measured without load, is 20V with a nominal value of 18V)
Charger	Charging time up to 75 minutes

REPLACEMENT PARTS AVAILABLE AT HOME HARDWARE

Replacement Battery	HH #5350-023 (2.5Ah) HH #5350-011 (4Ah)
Replacement Charger	HH #5350-010 (2.4A) HH #5350-022 (6A Fast)
Replacement Chain	5241-091

CHAIN OIL NOT INCLUDED WITH SAW

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

CRITICAL TOOL RELATED PRECAUTIONS

1. Always remove the battery before installing the bar/chain, clearing jams, or performing any maintenance to prevent accidental start-up.
2. Keep both hands firmly on the saw and maintain secure footing, as kickback can occur if the tip of the guide bar contacts a branch or other object.
3. Remove the sprocket cover and clean out wood chips after each use to prevent buildup that can block the oil pump and hinder smooth chain operation.
4. Batteries must be fully charged before first use and must be charged/stored indoors in a cool dry environment. Exposure to temperature extremes will reduce battery performance and lifespan.

READ ALL SAFETY, WARNING, PRECAUTIONS AND MAINTENANCE INFORMATION PROVIDED IN THIS MANUAL.

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

TABLE OF CONTENTS

Product Specifications	1-2
Table of Contents	3
General Safety Warnings	4-5
Electric Gardening Tool Safety	6-8
Pruning Chainsaw Specific Safety Rules	8-10
Battery Pack & Charger Safety	11-13
Battery Pack Recycling	13
Safety Symbols	14
Know Your 20v Pruning Chainsaw	15
Checking the Battery Charge Status	16-17
Assembly & Operation	18-25
Maintenance	26
Exploded View	27
Parts List	28-30
Warranty	30

GENERAL SAFETY WARNINGS



WARNING: Do not use on wet materials.



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 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 eye shields. Always use eye protection which is marked to comply with ANSI Z87.1 or CSA requirements. Prescription glasses ARE NOT a replacement for proper eye protection.

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
 DANGER	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.
 WARNING	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.
 CAUTION	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.
 NOTICE  CAUTION	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
 DANGER  	ALWAYS WEAR EYE PROTECTION THAT CONFORMS WITH CSA Z94.3 or ANSI SAFETY STANDARD Z87.1 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.
 WARNING 	Use hearing protection, particularly during extended periods of operation of the tool, or if the operation is noisy.
 WARNING 	Wear a dust mask that is designed to be used when operating a power tool in a dusty environment.
 WARNING   	Always wear non-slip gloves that fit properly to protect your hands and to help you grip the tool. Always wear sturdy clothing with long sleeves and long pants. Never operate the tool while wearing shorts, short sleeve shirts or shirtless. Always wear non-slip safety boots to prevent foot injuries and slipping that could cause loss of control of the tool.
 WARNING 	To avoid electrical hazards, fire hazards or damage to the tool, use proper circuit protection. This battery charger is wired at the factory for 120V AC operations. It must be connected to a 120V AC, 15A 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: 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.

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.

General Electric Gardening Tool Safety Warnings – 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, 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 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.

PRUNING 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.

PRUNING CHAINSAW SPECIFIC SAFETY RULES

This garden pruner is designed for cutting branches and limbs around the home. It is not designed for felling trees or cutting logs. Use of the garden pruner for operations different than intended could result in serious injury or death.

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 of the tree or work piece involved.

Maintain a firm grip, with thumbs and fingers encircling the chainsaw handles 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 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 maintain a firm grip on the chainsaw while operating.

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 guide bar 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.

Do not tamper with, remove or tie back the bar and chain safety guard. 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 lightening 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 handle 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 maintenance instructions for the saw chain.

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 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 battery 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, 60Hz 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

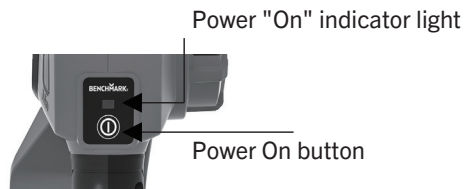
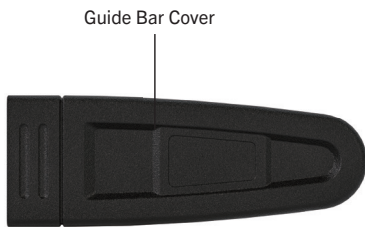
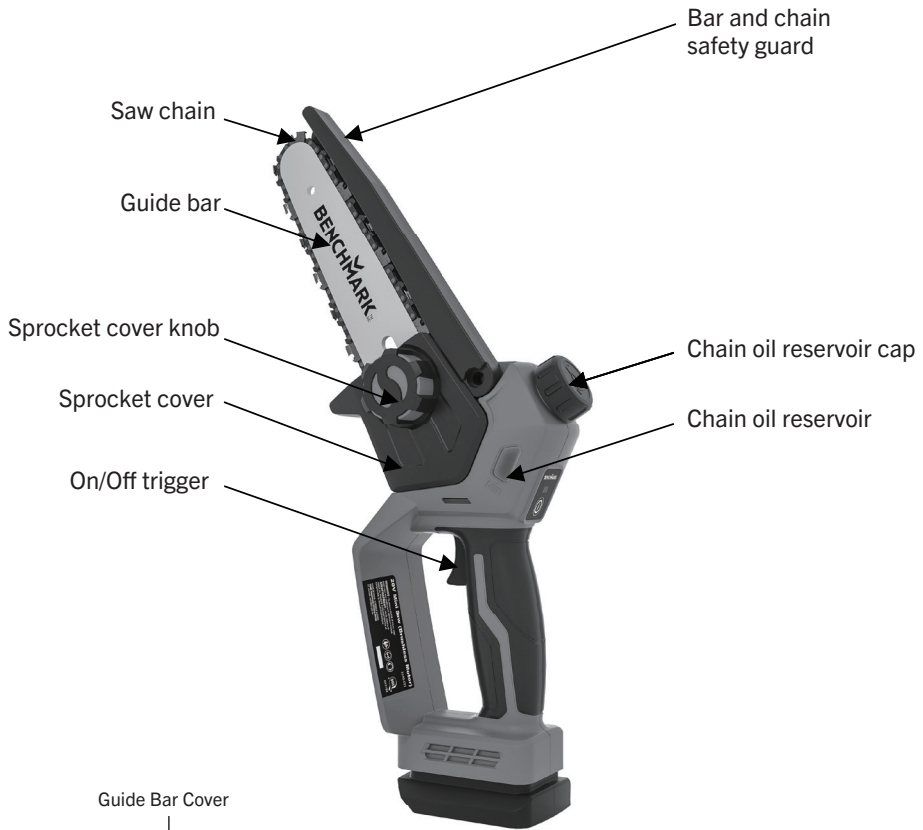
⚠ WARNING: Some of the following symbols may appear on the cordless pruning chainsaw. Study these symbols and learn their meaning. Proper interpretation of these symbols will allow for more efficient and safer operation of this tool.

	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 cSGS^{us} Testing Laboratories, Inc.
UL 62841-1; CAN/CSA-C22.2 No. 62841-1-15

KNOW YOUR 20V MAX⁺ 6" PRUNING CHAINSAW



CHECKING THE BATTERY CHARGER 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 (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.

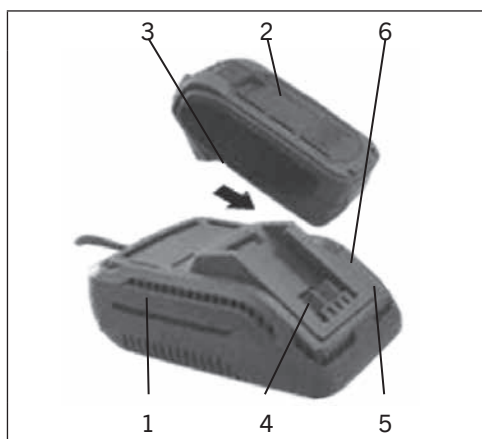


FIG. 1

NOTE: Make sure the grooves in the sides of the battery slide over the matching tabs on the charger (4) (Fig. 1) until the battery latch "clicks" into place.

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 below 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).

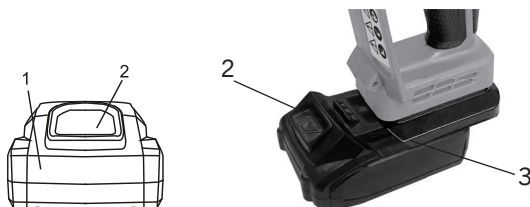
GREEN LIGHT	RED LIGHT	BATTERY INSERTED INTO CHARGER	SYMBOL	CHARGING STATUS
ON	OFF	NO	NONE	CHARGER CONNECTED TO POWER SUPPLY
OFF	FLASHING	YES		BATTERY BEING CHARGED
ON	OFF	YES		BATTERY FULLY CHARGED
OFF	ON	YES		DEFECTIVE-BATTERY IS CHARGED BUT NOT OPERATIONAL ON TOOL
ON	ON	YES		CHARGING CONDITIONS ARE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

FIG. 2

ASSEMBLY AND OPERATION

INSTALLING THE BATTERY PACKS

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

**FIG. 3**

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

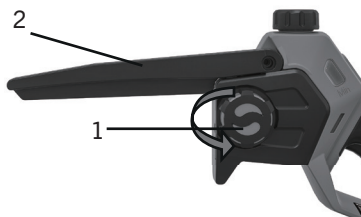
Before putting the pruning chain saw into operation, you must:

1. Adjust the saw chain tension.
2. Pour in chain oil.
3. Charge and insert battery.

MOUNTING THE GUIDE BAR AND CHAIN

⚠ WARNING: The saw chain has very sharp edges. Use protective gloves for safety. The saw chain and bar are packed separately in the carton.

1. Lay the saw on a flat surface.
2. Turn the sprocket cover knob (1) counter-clockwise to remove sprocket cover (2) (Fig. 4).

**FIG. 4**

3. Spread the saw chain (1) out into a loop. Use the graphical symbol located beneath the sprocket cover as a guide to the correct saw chain direction of travel (2) (Fig.5).

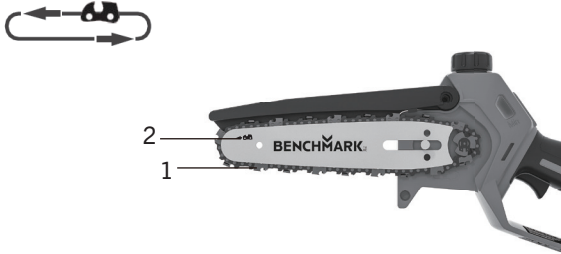


FIG. 5

4. Slide the saw chain (5) onto the guide bar (2) grooves (Fig.6).

5. To mount the guide bar, raise it to an angle of approx 45 degrees. Place the saw chain teeth around the sprocket (1) and mount the guide bar (2) so that the peg (3) on the tool fits into the slotted hole (4) on the guide bar (Fig.6).

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

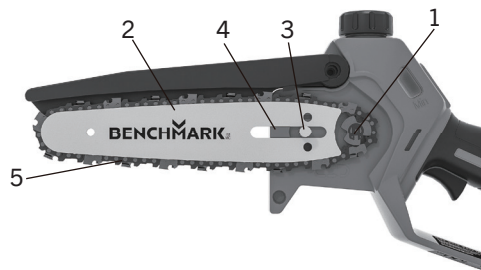


FIG. 6

6. Replace the sprocket cover (1) (Fig.7) over the sprocket (2) (Fig.7) and turn the sprocket cover knob clockwise to tighten.

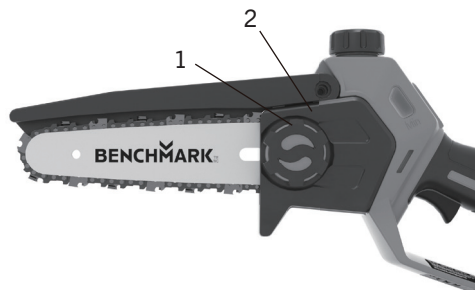


FIG. 7

TENSIONING THE SAW CHAIN

⚠ WARNING: Always switch off the tool and remove the battery before checking and adjusting. Always wear protective gloves when working on the chainsaw to avoid injury.

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

⚠ WARNING: Maintain proper chain tension always.

A loose chain will increase the risk of kickback. A loose chain may jump out of guide bar groove. This may injure the operator and damage the chain. A loose chain will cause chain, bar and sprocket to wear rapidly.

Do not tighten the saw chain too much. Excessively high tension of saw chain may cause breakage of saw chain and wear of the guide bar.

- (1) Place the pruning saw on any suitable flat surface.
- (2) Loosen the sprocket cover knob a bit to loosen the sprocket cover slightly.
- (3) Lift-up the guide bar tip slightly and adjust the chain tension. Turn the adjusting screw (1) (Fig.8) clockwise to tighten, turn it counter-clockwise to loosen. Tighten the saw chain until the lower side of the saw chain fits in the guide bar grooves as illustrated (Fig.8), or until the chain can be lifted off the guide bar and the drive link is within the grooves of the guide bar.

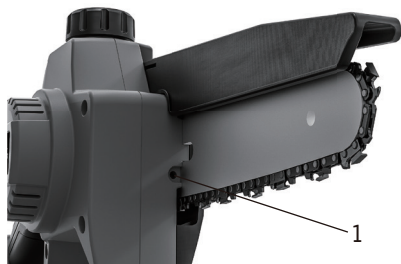


FIG.8

- (4) Wearing protective gloves, move chain around guide bar, chain should move freely. If chain does not move freely. Loosen chain by turning adjusting screw counter-clockwise.

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 tight 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.9).

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 (1) (Fig.9). 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:

Remove the sprocket cover and clean out wood chips after each use to prevent buildup that can block the oil pump and hinder smooth chain operation.

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.9

Check the oil level periodically through the oil level indicator (1) (fig.10).



FIG.10

CHANGING THE SAW BAR

1. Switch the tool off and remove battery.
2. Lay the saw on a flat surface.
3. Turn the sprocket cover knob (1) counter-clockwise to loosen the chain tensioning and to remove the sprocket cover (Fig.11).
4. Remove the saw chain (2). To remove the guide bar (3) raise it to an angle of approx.45 degrees. This will make it easier to take the saw chain (2) off the sprocket (4) (Fig.11).
5. Replace the blade and install the blade and chain as described under "Mounting the saw chain and bar".

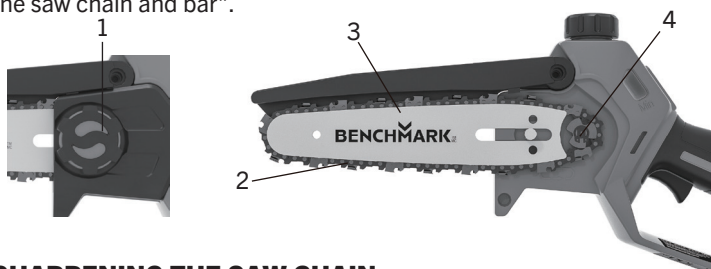


FIG. 11

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.

WORKING WITH THE CORDLESS PRUNING SAW

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

Remove the sprocket cover and clean out wood chips after each use to prevent buildup that can block the oil pump and hinder smooth chain operation.

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. PROTECTIVE CLOTHING

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

6. HEARING PROTECTION AND SAFETY GLASSES

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

 **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. Remove the guide bar cover and install the battery on the chainsaw.
2. Locate the On/Off trigger. Note, to prevent accidental starts, the tool is equipped with a "power on" button that must be used in conjunction with the trigger to start the chainsaw. Press the power on button until the green light comes on, then pull the trigger to start the saw. **NOTE: The green light (tool) will turn off after 5 seconds if the trigger is not engaged.**
3. The chainsaw will turn off once you release the ON/OFF trigger and features an auto brake system, an added safety feature that quickly stops the chain once the ON/Off trigger is released.

 **WARNING:** Never adjust or tie back the bar and chain safety guard while using the pruning chainsaw.

WORKING WITH THE CORDLESS PRUNING SAW

⚠ WARNING: The first time user should, as a minimum practice, do cutting logs on a sawhorse or cradle.

⚠ WARNING: Secure round pieces against rotation.

⚠ WARNING: Keep all parts of the body away from the saw chain when the motor is operating.

⚠ WARNING: Hold the pruning saw firmly when the motor is running.

⚠ WARNING: Do not overreach. Always keep proper footing and balance.

NOTE: Never toss or drop the tool.

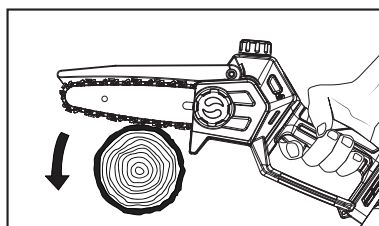
NOTE: Do not cover the vents of the tool.

PRUNING TREES

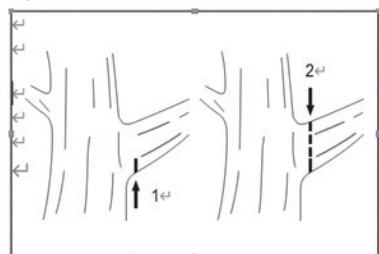
Bring the pruning saw body into contact with the branch to be cut before switching on. Otherwise, it may cause the guide bar to wobble, resulting in injury to operator. Saw the wood to be cut by just moving it down by using the weight of the pruning saw.

If you cannot cut the timber right through with a single stroke:

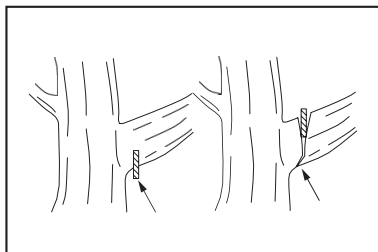
Apply light pressure to the handle and continue sawing and draw the pruning saw back a little.



When cutting thick branches, first make a shallow undercut and then make the finish cut from the top.

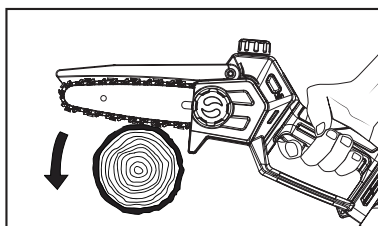


If you try to cut off thick branches from the bottom, the branch may close in and pinch the saw chain in the cut. If you try to cut off thick branches from the top without a shallow undercut, the branch may splinter.



BUCKING

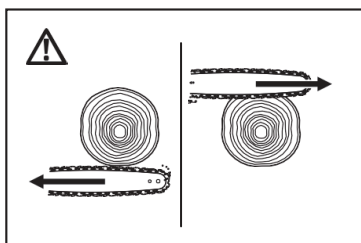
1. Rest the chain saw body on the wood to be cut.



- (1) With the saw chain running, saw into the wood.
- (2) Apply light pressure to the top of the machine, continue cutting, and loosen the saw slightly.

NOTE: When making several cuts, switch the chain saw off between cuts.

⚠ WARNING: If the upper edge of the bar is used for cutting, the pruning saw may be deflected in your direction if the chain becomes trapped. For this reason, cut with the lower edge, so that the saw will be deflected away from your body.



MAINTENANCE

GENERAL

-  **WARNING:** When servicing this tool, 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 fluids, 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 hazardous condition leading to possible serious injury. It will also void the warranty.

LUBRICATION

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

CLEANING AND STORAGE

- Keep the handles oil-free to ensure a secure grip.
- If necessary, clean the appliance with a damp cloth and, if necessary, with a mild detergent.
- Remove the sprocket cover and clean out wood chips after each use to prevent buildup that can block the oil pump and hinder smooth chain operation.
- Remove the battery from the tool before storing or cleaning.

-  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.

LITHIUM-ION BATTERY PERFORMANCE

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 (14° 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 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.

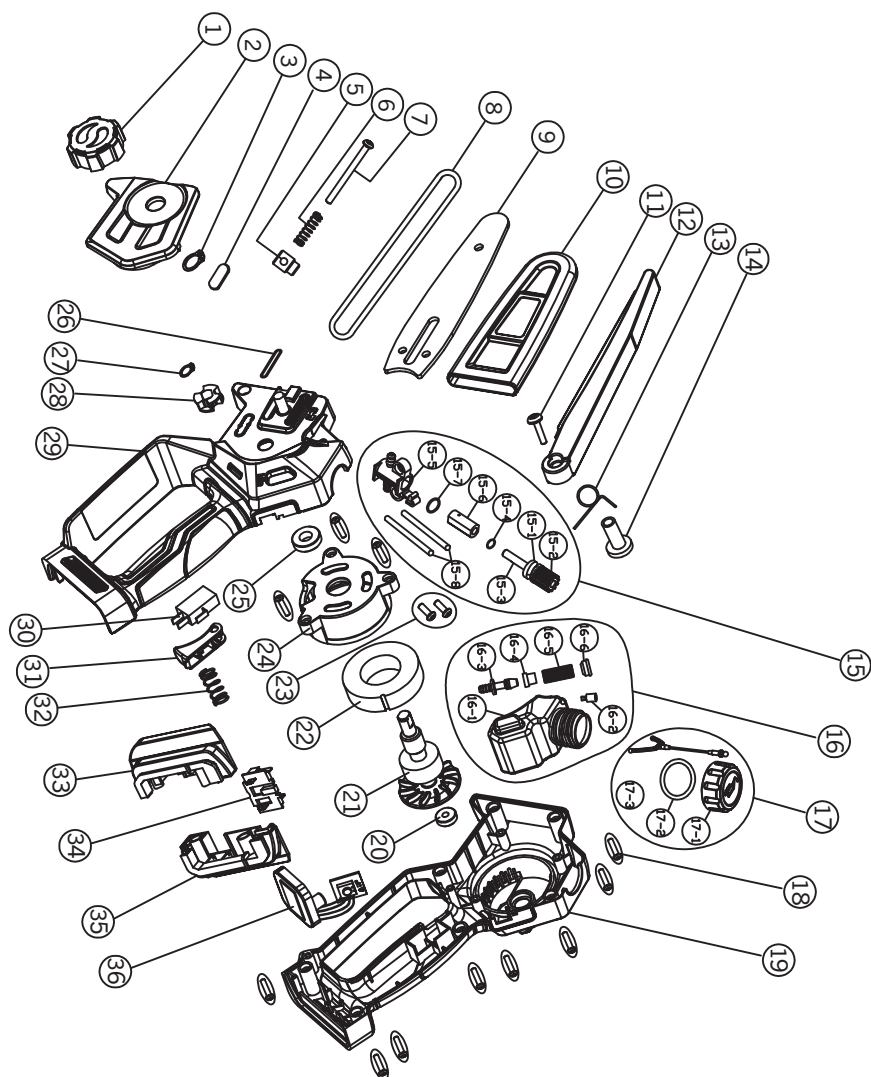
The batteries supplied with this tool may contain chemicals and metals that are harmful to the environment. Never dispose of rechargeable batteries in your normal household garbage or in landfill sites because they will add to the pollution of the environment.

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

⚠ WARNING: 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. Always order by part number, not by key number.

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 saw

Any attempt to repair or replace electrical parts on this saw 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 Eastern Standard Time.

Always order by part number.

Key #	Part #	Part Name	Quantity
1	3121930101058001	Sprocket cover knob	1
2	3121940101069001	Sprocket cover	1
3	33CC01040101	Jump ring	1
4	3121940101069001	Rubber cover	1
5	3221930101138001	Adjust pin	1
6	3221930201060001	Spring	1
7	33SRADC004300101	Screw	1
8	3200150201006001	Chain	1
9	3200150201007001	Guide plate	1
10	3121940201023001	Chain plate sheath	1
11	33SPAQA005250101	Screw	1
12	3121940201053001	Preventer plate	1
13	3221930101060001	Torsional spring	1
14	3221930101023001	Bush	1
15	2322194010001	Oil pump components	1
15-1	3194000201146001	Oil pump core	1
15-2	3290000301052001	Oil pump gear	1
15-3	3294000501138001	Oil pump pin	1
15-4	36130102	O-ring	1
15-5	3114100101146001	Oil pump shell	1
15-6	3290000301023001	Oil pump set	1
15-7	3190000101028001	Rubber gasket	1
15-8	3121920101038001	Oil delivery pipe	1
16	23129401001	Oil can component	1
16-1	3121940101147001	Oil can	1
16-2	3122920101148001	Oil can rubber	1
16-3	3190000101148001	Oil spout	1
16-4	3190000101025001	Seal ring	1
16-5	3290000501060001	Spring	1

Key #	Part #	Part Name	Quantity
16-6	3190000101081001	Mesh plug	1
17	241229201001	Oil reservoir cover assembly	1
17-1	3122920201069001	Oil reservoir	1
17-2	3194000101028001	Sealing gasket	1
17-3	3122920101161001	Oil reservoir lid chain	1
18	33SBAQA004160101	Screw	11
19	3121940101002001	Right casing	1
20	33DB625002011	Bearing	1
21	3421940101013001	Rotor	1
22	3421940101005001	Stator	1
23	33SBAQA004120101	Screw	2
24	3121940101039001	Motor bracket	1
25	33DB690002011	Bearing	1
26	3121940101025001	Rubber ring	1
27	33CC0100101	Jump ring	1
28	3221930101155001	Sprocket	1
29	3121940101001001	Left casing	1
30	3422910101032001	Microswitch	1
31	3121930101157001	Switch the trigger	1
32	3221930301060001	Spring	1
33	3121810101039001	Battery left bracket	1
34	3100810101049001	Inserting seat	1
35	3121810201039001	Battery right support	1
36	3421940101092001	Controller	1

WARRANTY

BENCHMARK 20V MAX[®] BRUSHLESS 6" PRUNING CHAINSAW

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.

20V MAX[†] BRUSHLESS 6" PRUNING CHAINSAW



Includes 1 battery & 1 charger
5 Year Limited Warranty
3 Year Limited Warranty on Battery and Charger

BENCHMARK™
MC

BENCHMARK TOOLS CANADA

ST. JACOBS, ONTARIO N0B 2N0

© 2024 Home Hardware Stores Limited

CUSTOMER SERVICE/TECH SUPPORT

1-866-349-8665

5240-057

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.



GY219429

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

[†] Maximum initial battery voltage (measured without a workload)
is 20 volts. Nominal voltage is 18 volts.



**WEAR CSA APPROVED
EYE PROTECTION**



**WEAR EAR
PROTECTION**



**WEAR A
FACE MASK**