

Radley®

20V Max*
Brushless 12"

Item# 5240-058

Chainsaw

Oregon® 12" Bar



*BRUSHLESS motor technology
Includes 1 battery & 1 charger
3 Year limited warranty (for tool)
and 2 year limited warranty
(for the battery and charger).*

Owner's Manual



800874
GY219151

**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 18v.



**WEAR CSA APPROVED
EYE PROTECTION**



**WEAR EAR
PROTECTION**



**WEAR A
FACE MASK**

PRODUCT SPECIFICATIONS

BRUSHLESS CHAINSAW	
Voltage	20V (No load)
Chain Speed	8 m/s (No load)
Bar Length	12" (305 mm)
Max Cutting Width	10" (254 mm)
Drive Links	45
Chain Pitch	3/8 " (9.5 mm)
Chain Gauge	0.043" (1.1 mm)
Oil Reservoir Capacity	180 ml (6.09 oz)
Tool operating weight	8.31 Lbs (3.77 kg)

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

REPLACEMENT PARTS AVAILABLE AT HOME HARDWARE	
Replacement Battery	5350-014 (5Ah)
Replacement Charger	5350-013
Replacement Chain	5240-058

CHAIN OIL NOT INCLUDED	
Suggested Spring/Summer oil	8650-060
Suggested Fall/Winter oil	8650-079

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 Z87.1 or CSA requirements. Prescription eyeglasses ARE NOT a replacement for proper eye protection.
-  **WARNING:** Non-compliant 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
 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.

SAVE THESE INSTRUCTIONS FOR REFERENCE

SYMBOL	MEANING
	<p>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.</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>Use hearing protection, particularly during extended periods of operation of the tool, or if the operation is noisy.</p>
	<p>Wear a dust mask that is designed to be used when operating a power tool in a dusty environment.</p>
	<p>Always wear non-slip 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 non-slip safety boots to prevent foot injuries and slipping that could cause loss of control of the tool.</p>

READ ALL INSTRUCTIONS BEFORE USING THIS BRUSHLESS CHAINSAW

SYMBOL	MEANING
 	<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 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.</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.

SAVE THESE INSTRUCTIONS FOR REFERENCE

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, 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.

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.

SAVE THESE INSTRUCTIONS FOR REFERENCE

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 tree size 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 a 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

READ ALL INSTRUCTIONS BEFORE USING THIS BRUSHLESS CHAINSAW

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.
- 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.

SAVE THESE INSTRUCTIONS FOR REFERENCE

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 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 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 logs on a sawhorse or frame by removing the battery.

SAVE THESE INSTRUCTIONS FOR REFERENCE

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.

READ ALL INSTRUCTIONS BEFORE USING THIS BRUSHLESS CHAINSAW

- 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 Max Radley 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 Radley 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.

SAVE THESE INSTRUCTIONS FOR REFERENCE

- 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.

READ ALL INSTRUCTIONS BEFORE USING THIS BRUSHLESS CHAINSAW

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. A 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!












SAVE THESE INSTRUCTIONS FOR REFERENCE

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.

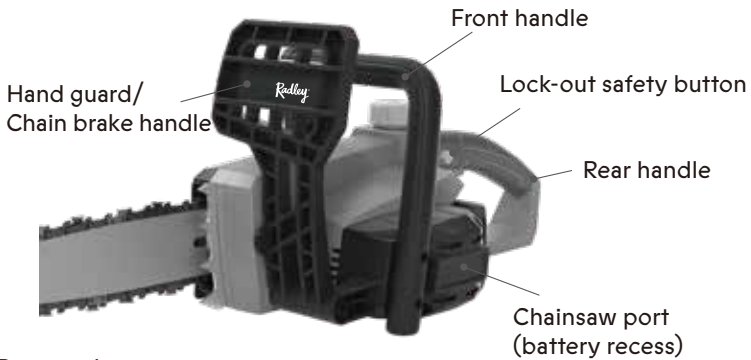
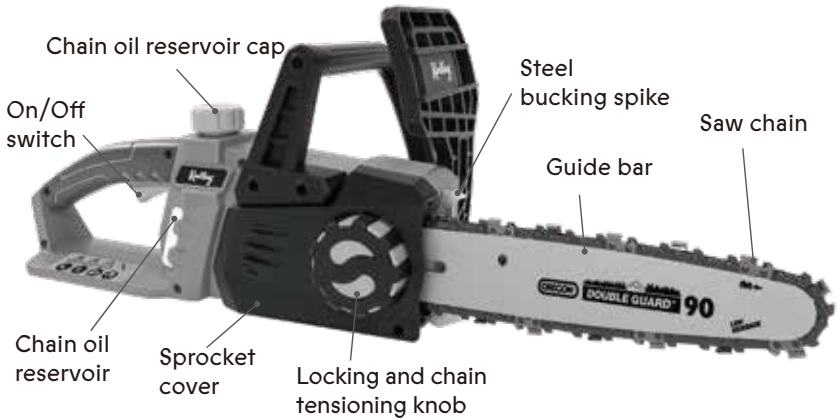
SAFETY SYMBOLS

	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 sound proof 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 cSGSus Testing Laboratories, inc.
 UL62841-1,62841-4-1
 CAN/CSA-C22.2 NO.62841-1-15 62841-4-1:20

KNOW YOUR 20V 12" BRUSHLESS CHAINSAW



Battery charger
5350-013



Replacement 5Ah battery 5350-014



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 three LED lights in the LED window will come ON to indicate the amount of charge that is remaining in the battery as follows:

1 light (Red light ON)	2 lights (Red and Orange light ON)	3 lights (Red/Orange/Green ON)
1/3 or less	1/3 - 2/3	2/3-Fully charged



3. Release the battery status button to turn the LED's 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 turn ON. The red indicator light indicates the battery is being charged.
3. If the red indicator light does not come ON, check to make sure battery pack is slid fully onto the charger and the electrical outlet is working properly.
4. See (Fig.2) for other indicator light functions.
5. A discharged battery pack should be fully charged in 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	Charging Status
ON	OFF	NO	Charger connected to power supply.
OFF	ON	YES	Battery being charged.
ON	OFF	YES	Battery fully charged.
ON	OFF	YES	Battery is charged but not operational on tool. This may indicate defective / bad contact on battery or charging conditions are either too hot or too cold.

Fig. 2

ASSEMBY AND OPERATION

INSTALLING A BATTERY ON THE CHAINSAW

1. Remove the discharged battery (1) from the chainsaw by pressing downwards on the battery release button (2) and slide the battery backward until it is removed from the chainsaw port (3) (Fig.3).
2. Slide the fully charged battery onto the matching keys in the chainsaw port (3) where the discharged battery has been removed.

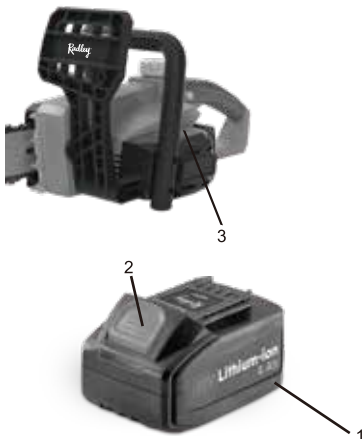


Fig. 3

NOTE: Make sure the slots in the battery are fully engaged with the mounting keys in the chainsaw port (3). The battery release button will “click” into place when the battery is fully installed.

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

⚠ 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 electric chainsaw into operation, you must:

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

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

1) Mounting the guide bar and chain

- a) Lay the saw on a flat surface.
- b) Turn the locking and chain tensioning knob counterclockwise to loosen the sprocket cover and guide bar (Fig.4).
- c) Remove sprocket cover (Fig.5).
- d) Insert the chain teeth into the groove on the edge of the guide bar (Fig.6a). This is more easily done by laying the guide bar on a flat surface.
- e) Insert the saw chain and guide bar onto the guide bar holder as shown. Guide the chain around the sprocket (Fig.6b).
- f) Before installing bar on saw and tightening the sprocket cover, tension the chain and ensure all chain teeth lie in the groove along the edge of the bar.
- g) Attach the sprocket cover (Fig.7a) and secure it to the tool by turning the locking /chain tensioning knob clockwise. Turn it until there is a slight click (Fig.7b.)



Fig.4



Fig.5



Fig.6a



Fig.6b



Fig.7a



Fig.7b

⚠ WARNING: Do not tighten the locking and chain tensioning knob until the chain tension has been adjusted.

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

2) Tensioning the saw chain

⚠ WARNING: Always switch off the tool and remove the battery 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 changes in wear and temperature.

⚠ WARNING: Do not re-tighten or change the chain while 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 bar or the engine because now the chain is too tight on the bar. Chain tension and chain lubrication have a significant impact on the service life of the chain.

- a) 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 1/8"-5/32" (3-4mm) (Fig. 9).
- b) If it requires adjusting, turn the locking /tensioning knob counterclockwise one turn to loosen it, then, slowly turn it clockwise until you hear click (Fig. 8).
- c) Check its tightness by repeating the test in (a) above.
- d) If too loose, turn the knob clockwise another ¼ turn and repeat the test in (a) until the proper gap is attained.



Fig.8



Fig.9

3) 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: Always remove the battery before checking or adjusting and wear gloves to prevent injury.

⚠ WARNING: 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.

4) FILLING RESERVOIR WITH CHAIN OIL

- a) Place the saw on a level surface.
- b) Clean the area around the chain oil reservoir cap.
- c) Chain saw oil is recommended as a 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. 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 tank 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.

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 saw chain 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 24.

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.

⚠ WARNING: Switch on the chainsaw only when guide bar, saw chain and sprocket cover 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 insert battery into chainsaw.
2. Locate the ON/OFF trigger (3). Note, to prevent accidental starts, this tool is equipped with a lock-out safety switch (2). Therefore, press and hold this switch before pulling the ON/OFF trigger (Fig.10).
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.10) 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.

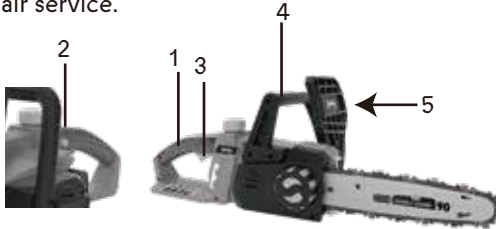


Fig.10

GENERAL USE

1. Cutting down a tree (Fig. 11-14)

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.11) 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.12).

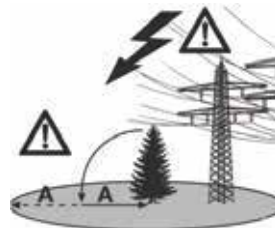


Fig.11



Fig.12

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.13) (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.13

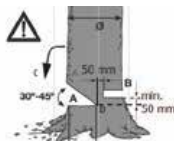


Fig.14a

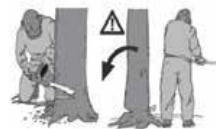


Fig.14b

2. Set notch cut (Fig. 14a)

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.14a). 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. 14a/14b)

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.15) (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.16), saw from above. Be careful not to cut into the ground.

If the log is resting on one end, as shown in (Fig.17), 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.18), 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).

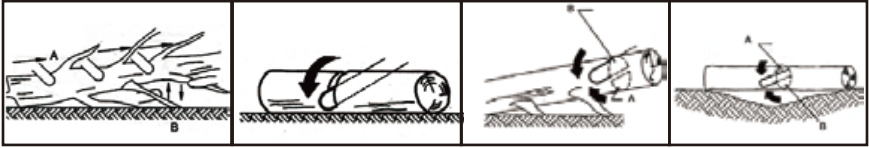


Fig.15

Fig.16

Fig.17

Fig.18

When sawing on slopes, always stand above the tree trunk, as shown in (Fig.12). 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. 19). Always place the saw flat and close to the claw (Fig. 20).

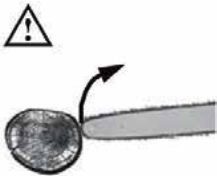


Fig.19



Fig.20



- 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. 21-23). Such work may only be carried out by trained specialists.



Fig.21

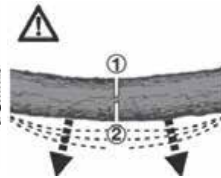


Fig.22

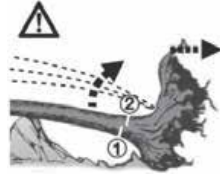


Fig.23

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 saw 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.



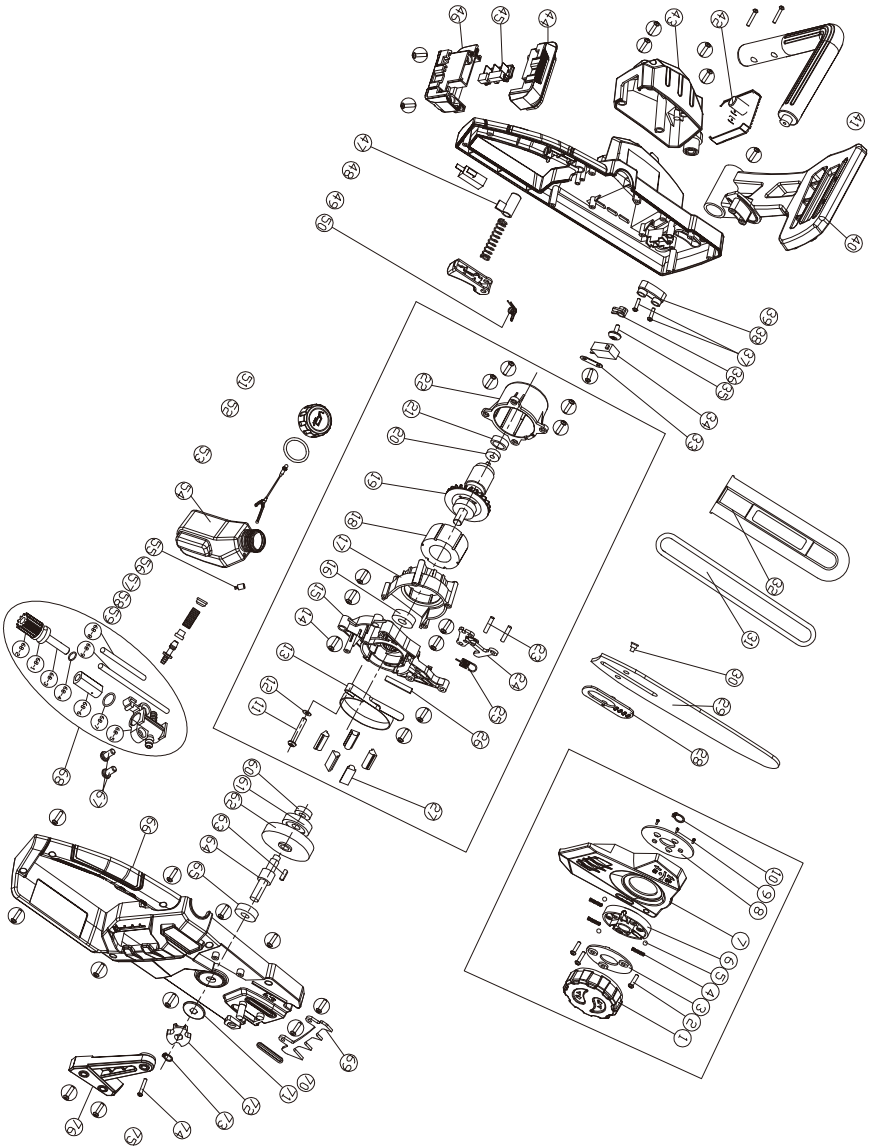
WARNING: Before each cleaning, switch off the device and pull out the battery. Never immerse the device in water or other liquids for cleaning. Keep the chainsaw in a safe and dry place and out of the reach of children.

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 saw.

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: 9am to 5pm Eastern Standard Time.

Always order by part number.

Key #	Part #	Part Name	Quantity
1	3122910101058001	Knob	1
2	33SQABA004100101	Screw	3
3	3140100101053001	Knob cover	1
4	3221920101060001	Spring	3
5	3240100101128001	Steel ball	3
6	3140100101058001	Knob 1	1
7	3121910101069001	Chain clamp plate	1
8	3290000201053001	Spiral plate	1
9	33SEADA004120101	Screw	3
10	33CC0140101	Jump ring	1
11	33SQABA004250101	Screw	1
12	3290000301030001	Washer 3	1
13	3214100101047001	Brake steel belt	1
14	33SQABA004160101	Screw	11
15	3121910101039001	Motor support	1
16	33DB600002011	Bearing	1
17	3121910201053001	Wind screen	1
18	3421915001006001	Stator	1
19	3421915001013001	Rotor	1
20	33DB62502011	Bearing	1
21	3121920201023001	Rubber sleeve	1
22	3121915001049001	Motor base	1
23	3290000301138001	Pin	2
24	3214100101050001	Brack hinge	1
25	3296000201060001	Extension spring	1
26	3196000101026001	Wool felt	1
27	3190000201156001	Bakelite pile	5

Key #	Part #	Part Name	Quantity
28	3298000201053001	Regulating plate	1
29	104MLEA041	Bar	1
30	3240100101009001	Rivet	1
31	90PX040X	Chain	1
32	3114100301023001	Chain plate sheath	1
33	3251100201053001	Axle clamp plate	1
34	3422710101032001	Microswitch	2
35	33SJAQA004160101	Screw	1
36	3196000101072001	Block	1
37	33AQABA004160102	Screw	2
38	3214100301072001	Brake block	1
39	3121910101001001	Left housing	1
40	3121910101053001	Front finger guard	1
41	3121910101094001	Front handle	1
42	3421915001092001	Controller	1
43	3121910201069001	Rear cover	1
44	3121810101039001	Battery left bracket	1
45	3100810101049001	Inserting seat	1
46	3121810201039001	Battery right support	1
47	3114100101058001	Side switch button	1
48	3270000101060001	Spring	1
49	3121910101157001	Switch trigger	1
50	3270000201060001	Torsional spring	1
51	3197000201069001	Oil tank cap	1
52	36130108	O type ring	1
53	3122920101161001	Oil pot cover chain	1
54	3121910101147001	Oil tank	1
55	3122920101148001	Oil can rubber nozzle	1
56	3190000101081001	Filter screen stopper	1
57	3290000501060001	Spring	1
58	3190000101025001	Seal ring	1
59	3190000101148001	Rubber sheath on oil tank	1
60	33DB69802011	Bearing	1
61	3297000101052001	Big gear	1
62	3240100101031001	Brake wheel	1

Key #	Part #	Part Name	Quantity
63	3314100101077001	Flat key	1
64	3240100101020001	Output shaft	1
65	33DB600002011	Bearing	1
66	3121910101002001	Right housing	1
67	33SQABA004120101	Screw	2
68	232219101001	Oil pump components	1
68-1	3290000301052001	Oil pump core	1
68-2	3290000301052001	Oil pump humper	1
68-3	3294000501138001	Oil pump pin	1
68-4	36130102	O type ring	1
68-5	3114100101146001	Oil pump housing	1
68-6	3290000301023001	Oil pump set	1
68-7	3297000101052001	Rubber gasket	1
68-8	3240100101031001	Oil pipe2	1
68-9	3697000101038001	Oil pipe	1
69	3214100101155001	Spiked humper	1
70	3190000401025001	Rubber ring	1
71	3290000101069001	Dust cap	1
72	3295000101155001	Sprocket	1
73	33CC0100101	Jump ring	1
74	33SQABA004200101	Screw	3
75	33AQABA004160101	Screw	19
76	3121910201039001	Front handle side bracket	1

WARRANTY

RADLEY 20V MAX BRUSHLESS CHAINSAW WARRANTY

If this Radley tool fails due to a defect in material or workmanship within three years from the date of purchase, return it to any Home Hardware store with the original bill of sale for exchange. Two years for battery and charger. This warranty does not include expendable parts including but not limited to blades, brushes, belts and 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 Radley product is used for commercial or rental purposes, this warranty does not apply.

20V Max*
Brushless 12"

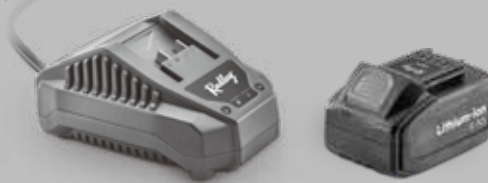
Chainsaw



Oregon® 12" Bar

BRUSHLESS motor technology
Includes 1 battery & 1 charger
3 Year limited warranty (for tool)
and 2 year limited warranty
(for the battery and charger).

Owner's Manual



EXCLUSIVE TO HOME HARDWARE

For information on the entire line up of Radley power tools visit homehardware.ca or your local Home Hardware retail store

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