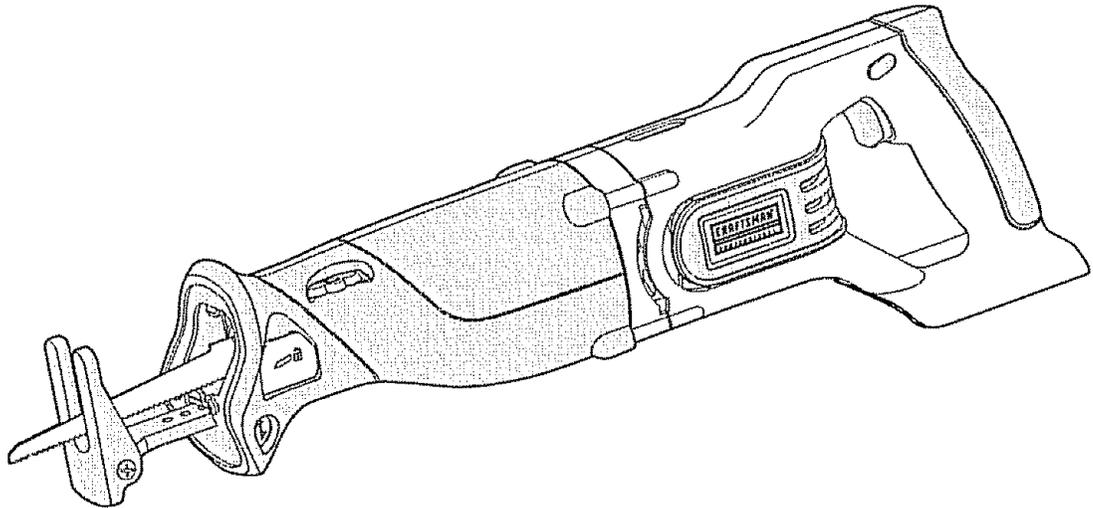


Operator's Manual



20.0-VOLT LITHIUM-ION CORDLESS Reciprocating Saw

Model No. 320.26314



- WARRANTY
- SAFETY
- ASSEMBLY
- DESCRIPTION
- OPERATION
- MAINTENANCE
- TROUBLESHOOTING

⚠ WARNING: To reduce the risk of injury, the user must read and understand the operator's manual before using this product.

**CHARGE BATTERY
BEFORE FIRST USE**

Sears, Roebuck and Co., Hoffman Estates, IL 60179 USA
Visit the Craftsman web page: www.sears.com/craftsman



Save this manual for future reference

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TWO YEAR LIMITED WARRANTY ON CRAFTSMAN® PROFESSIONAL TOOL

If this Craftsman Professional Tool fails due to a defect in material or workmanship, return it to any Sears store, Sears Service Center, or other Craftsman outlet in the United States for free replacement during the first year from the date of purchase, and for free repair during the second year from the date of purchase.

This warranty does not include expendable parts such as lamps, batteries, bits or blades.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Sears, Roebuck and Co., Hoffman Estates, IL 60179

INTRODUCTION

SAVE THESE INSTRUCTIONS!

READ ALL INSTRUCTIONS!

This tool has many features for making its use more pleasant and enjoyable. Safety, performance, and dependability have been given top priority in the design of this product making it easy to maintain and operate.

⚠ WARNING: Some dust created by using power tools contains chemicals known to the state of California to cause cancer and birth defects or other reproductive harm.

SAFETY SYMBOLS

The purpose of safety symbols is to attract your attention to possible dangers. The safety symbols, and the explanations with them, deserve your careful attention and understanding. The symbol warnings **DO NOT**, by themselves, eliminate any danger. The instructions and warnings they give are no substitutes for proper accident-prevention measures.

⚠ WARNING: BE SURE to read and understand all safety alert symbols, such as "DANGER," "WARNING," and "CAUTION" BEFORE using this product. Failure to follow all instructions may result in electric shock, fire, and/or serious personal injury.

SYMBOL MEANINGS

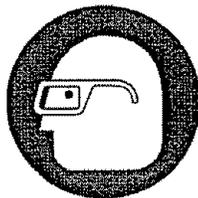
⚠ DANGER: Indicates an imminently hazardous situation, which, if not avoided, will result in death or serious injury.

⚠ WARNING: Indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury.

⚠ CAUTION: Indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury.

CAUTION: (Without Safety Alert Symbol) Indicates a situation that may result in property damage.

⚠ WARNING: To ensure safety and reliability, all repairs should be performed by a qualified service technician at Sears Service Center.



⚠ WARNING: 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 a full face shield when needed. We recommend 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.

Some of these following symbols may be used on this tool. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to operate the tool better and more safely.

SYMBOL	NAME	DESIGNATION / EXPLANATION
V	Volts	Voltage
A	Amperes	Current
Hz	Hertz	Frequency (cycles per second)
W	Watt	Power
min	Minutes	Time
~	Alternating Current	Type of current
==	Direct Current	Type or a characteristic of current
n_0	No Load Speed	Rotational speed, at no load
	Class II Construction	Double-insulated construction
.../min	Per Minute	Revolutions, strokes, surface speed, orbits, etc., per minute
	Wet Conditions Alert	Do not expose to rain or use in damp locations.
	Read the Product Manual	To reduce the risk of injury, user must read and understand product manual before using this product.
	Eye Protection	Always wear safety goggles or safety glasses with side shields and a full-face shield when operating this product.
	Safety Alert	Precautions that involve your safety.
	No Hands Symbol	Failure to keep your hands away from the blade will result in serious personal injury.
	No Hands Symbol	Failure to keep your hands away from the blade will result in serious personal injury.
	No Hands Symbol	Failure to keep your hands away from the blade will result in serious personal injury.
	No Hands Symbol	Failure to keep your hands away from the blade will result in serious personal injury.
	Hot Surface	To reduce the risk of injury or damage, avoid contact with any hot surface.

SAFETY INSTRUCTIONS

⚠ WARNING: READ AND UNDERSTAND ALL INSTRUCTIONS. Failure to follow all instructions listed below may result in electric shock, fire and/or serious personal injury. The term "power tool" in all of the warnings listed below refer to mains-operated (corded) power tools or battery-operated (cordless) power tools.

WORK AREA SAFETY

- **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
- **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes.
- **Keep children and bystanders away while operating a power tool.** Distractions cause you to lose control.

ELECTRICAL SAFETY

- **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** Unmodified plugs and matching outlets will reduce the risk of electric shock.
- **Avoid body contact with earthed (grounded) surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed (grounded).**
- **Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.**
- **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.**
- **When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.**
- **Use battery only with charger listed.**

BATTERY PACK	CHARGER
320.25708	320.25709

PERSONAL SAFETY

- **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.
- **Use safety equipment. Always wear eye protection.** Safety equipment such as dust masks, non-skid safety shoes, hard hat or hearing protection used for appropriate conditions will reduce personal injuries.

- **Avoid accidental starting. Ensure the switch is in the off position before plugging in.** Carrying power tools with your finger on the switch or plugging in power tools that have the switch on invites accidents.
- **Remove any adjusting key or wrench before turning the power tool on.** A wrench or key left attached to a rotating part of the power tool may result in personal injury.
- **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- **Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts.** Loose clothes, jewelry 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 these devices can reduce dust-related hazards.
- **Use clamps or another practical way to secure and support the workpiece to a stable platform.** Holding the work by hand or against your body leaves it unstable and may lead to loss of control.
- **Do not use on a ladder or unstable support.** Stable footing on a solid surface enables better control of the power tool in unexpected situations.
- **Keep handles dry, clean and free from oil and grease.** Slippery hands can not safely control the power tool.
- **Always wear safety glasses with side shields.** Everyday glasses have only impact resistant lenses. They are NOT safety glasses. Following this rule will reduce the risk of eye injury.
- **Protect your lungs.** Wear a face or dust mask if the operation is dusty. Following this rule will reduce the risk of serious personal injury.
- **Protect your hearing.** Wear hearing protection during extended periods of operation. Following this rule will reduce the risk of serious person injury.

POWER TOOL USE AND CARE

- **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designated.
- **Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- **Disconnect the plug from the power source and/or the batter pack from the power tool before making any adjustments, changing accessories or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.
- **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.

- **Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.
- **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- **Use the power tool, accessories and tool bits etc., in accordance with these instructions and in the manner intended for the particular type of power tool, taking in account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation.
- **Hold power tools by insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring or its own cord.** Contact with a "live" wire will also make exposed metal parts of the tool "live" and shock the operator.
- **Know your power tool. Read the product manual carefully. Learn its applications and limitations, as well as the specific potential hazards related to this tool.** Following this rule will reduce the risk of electric shock, fire or serious injury.
- **Save these instructions.** Refer to them frequently and use them to instruct others who may use this tool. If you loan someone this tool, also loan them these instructions.

BATTERY TOOL USE AND CARE

- **Ensure the switch is in the off position before inserting battery pack.** Inserting the battery pack into power tools that have the switch on invites accidents.
- **Recharge only with the charger specified by the manufacturer.** A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
- **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
- **When battery pack is not in use, keep it away from other metal objects like paper clips, coins, keys, nails screws or other small metal objects that can make a connection from one terminal to another.** Shorting the battery terminals together may cause burns or a fire.
- **Under abusive conditions, liquid may be ejected from the battery, avoid contact.** If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.
- **Battery tools do not have to be plugged into an electrical outlet; therefore, they are always in operating condition. Be aware of possible hazards when not using your battery tool or when changing accessories.** Following this rule will reduce the risk of electric shock, fire or serious personal injury.

- **Do not place battery tools or their batteries near fire or heat.** This will reduce the risk of explosion and possibly injury.
- **Do not crush, drop or damage battery pack. Do not use a battery pack or charger that has been dropped or received a sharp blow.** A damaged battery is subject to explosion. Properly dispose of a dropped or damaged battery immediately.
- **Batteries vent hydrogen gas and can explode in the presence of a source of ignition such as a pilot light.** To reduce the risk of serious personal injury, never use any cordless product in the presence of open flame. An exploded battery can propel debris and chemicals. If exposed, flush with water immediately.
- **Do not charge battery tool in a damp or wet location.** Following this rule will reduce the risk of electric shock.
- **Under extreme usage or temperature conditions, battery leakage may occur. If liquid comes in contact with your skin, wash immediately with soap and water, then neutralize with lemon juice or vinegar. If liquid gets in your eyes, flush them with clean water for at least 10 minutes, then seek immediate medical attention.** Following this rule will reduce the risk of serious personal injury.

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.
- **When servicing a power tool, use only identical replacement parts. Follow instructions in the Maintenance section of this manual.** Use of unauthorized parts or failure to follow Maintenance instructions may create a risk of shock or injury.

SPECIFIC SAFETY RULES

SAFETY RULES FOR SAW

- **Avoid damage that can be caused by screws, nails and other elements in your work piece; remove them before you start working.**
- **In case of electrical or mechanical malfunction, immediately switch off the tool.**
- **Use only accessories** with an allowable speed matching at least the highest no-load speed of the tool.
- **Do not work with materials containing asbestos.** Asbestos is considered carcinogenic.
- **Keep hands away from the cutting area and the blade; keep your second hand on barrel grip.** If both hands are holding the saw, the blade cannot cut them.
- **Do not reach underneath the work piece.** The proximity of the blade to your hand is hidden from your sight.
- **Use clamps or other equipment to secure and support the work piece.** Holding the work piece in your hand or against your body may lead to loss of control. It is important to support the work properly to minimize body exposure, blade binding, or loss of control.
- **Hold the tool by insulated gripping surfaces** when performing an operation where the cutting tool may come into contact with live wires.
- **Use suitable detectors to find hidden utility lines, or call the local utility company for assistance.** Contact with electric lines can lead to fire or electrical shock; damage to a gas line can result in an explosion; penetrating a water pipe will cause property damage or an electrical shock.
- **Do not use a dull or damaged blade.** Bent blades can break easily or cause kickback.
- **Ensure that the blade clamp is tight before making a cut.** A loose clamp may cause the tool or blade to slip with loss of control as a result.
- **Do not hold the blade toward your face when removing the blade.** The blade will automatically fall off when the clamp is released.
- **For best results, your battery tool should be charged in a location where the temperature is more than 32°F (0°C) but less than 104°F (40°C).** Do not store outside or in vehicles

SAFETY RULES FOR CHARGER

⚠ WARNING: READ AND UNDERSTAND ALL INSTRUCTIONS. Failure to follow all instructions listed below may result in electric shock, fire and/or serious personal injury.

- **Before using battery charger,** read all instructions and cautionary markings in this manual, on battery charger, battery and product using battery to prevent misuse of the products and possible injury or damage.

⚠ CAUTION: To reduce the risk of electric shock or damage to the charger and battery, charge only lithium-ion rechargeable batteries as specifically designated on your charger. Other types of batteries may burst, causing personal injury or damage.

- **Do not use charger outdoors or expose to wet or damp conditions.** Water entering charger will increase the risk of electric shock.
- **Use of an attachment not recommended or sold by the battery charger manufacturer may result in a risk of fire, electric shock or injury to persons.** Following this rule will reduce the risk of electric shock, fire or serious personal injury.
- **Do not abuse cord or charger.** Never use the cord to carry the charger. Do not pull the charger cord rather than the plug when disconnecting from receptacle. Damage to the cord or charger could occur and create an electric shock hazard. Replace damaged cords immediately.
- **Make sure cord is located so that it will not be stepped on, tripped over, come in contact with sharp edges or moving parts or otherwise subjected to damage or stress.** This will reduce the risk of accidental falls, which could cause injury and damage to the cord, which could result in electric shock.
- **Keep cord and charger from heat to prevent damage to housing or internal parts.**
- **Do not let gasoline, oils, petroleum-based products, etc. come in contact with plastic parts.** They contain chemicals that can damage, weaken or destroy plastic.
- **An extension cord should not be used unless absolutely necessary. Use of improper extension cord could result in a risk of fire and electric shock. If an extension cord must be used, make sure:**
 1. That pins on plug of extension cord are the same number, size and shape as hose of plug on charger.
 2. That extension cord is properly wired and in good electrical condition.
 3. That wire size is large enough for AC ampere rating of charger as specified below:

Cord Length (Feet)	25'	50'	100'
Cord Size (AWG)	16	16	16
NOTE: AWG = American Wire Gauge			

- **Do not operate charger with a damaged cord or plug**, which could cause shorting and electric shock. If damaged, have the charger repaired or replaced by an authorized service technician at Sears Service Center.
- **Do not operate charger if it has received a sharp blow, been dropped or otherwise damaged in any way.** Take it to an authorized service technician at Sears Service Center for an electrical check to determine if the charger is in good working order.
- **Do not disassemble charger.** Take it to an authorized service technician at Sears Service Center when service or repair is required. Incorrect reassembly may result in a risk of electric shock or fire.
- **Unplug charger from outlet before attempting any maintenance or cleaning to reduce the risk of electric shock.**
- **Disconnect charger from the power supply when not in use.** This will reduce the risk of electric shock or damage to the charger if metal items should fall into the opening. It will also help prevent damage to the charger during a power surge.
- **Risk of electric shock.** Do not touch uninsulated portion of output connector or uninsulated battery terminal.
- **Save these instructions.** Refer to them frequently and use them to instruct others who may use this tool. If you loan someone this tool, loan them these instructions also to prevent misuse of the product and possible injury.
- **If the power supply cord is damaged, it must be replaced only by the manufacturer or by an authorized service center to avoid risk.**

IMPORTANT SAFETY INSTRUCTIONS

- **SAVE THESE INSTRUCTIONS.** This manual contains important safety and operating instructions for battery charger 320.25709 and battery pack 320.25708.
- **Before using battery charger**, read all instructions and cautionary markings on battery charger, battery and product using battery.

⚠ CAUTION: To reduce the risk of injury, charge only lithium-ion rechargeable batteries. Other types of batteries may burst, causing personal injury or damage.

⚠ WARNING: Use of this product can generate dust containing chemicals known to the state of California to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints.
- Crystalline silica from bricks and cement and other masonry products.
- Arsenic and chromium, from chemically treated lumber.

Your risk from these exposures varies, depending upon how often you do this type of work. To reduce your exposure to these chemicals:

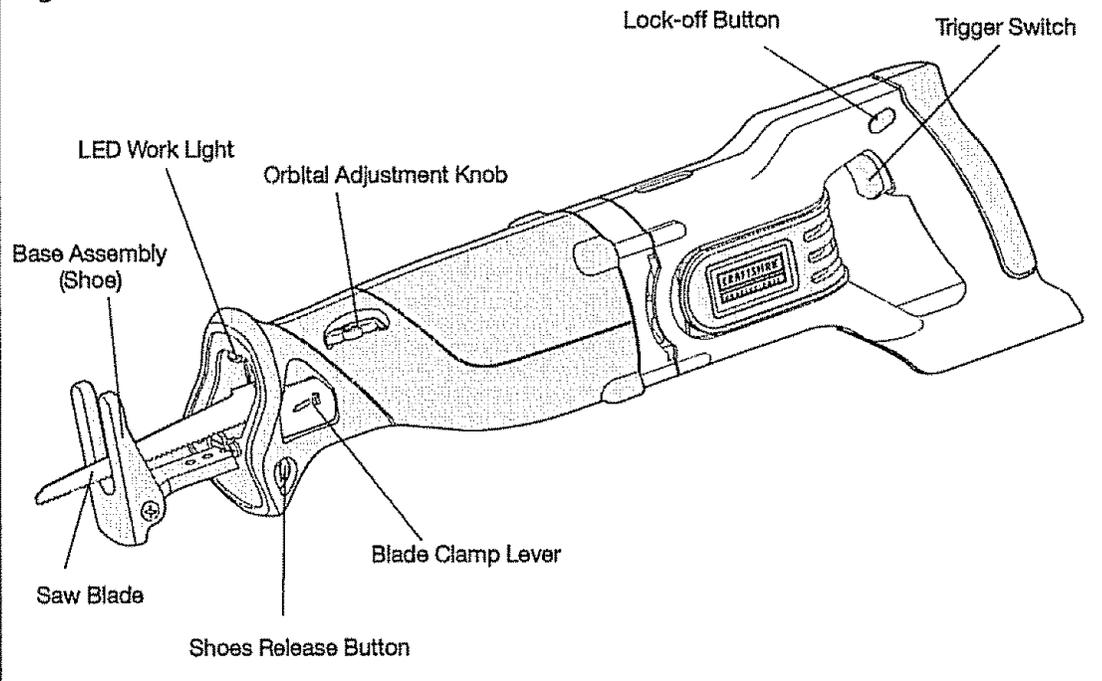
- Work in a well-ventilated area.

- Work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

Avoid prolonged contact with dust from power sanding, sawing, grinding, drilling and other construction activities. Wear protective clothing and wash exposed areas with soap and water. Allowing dust to get into your mouth, eyes or lay on the skin may promote absorption of harmful chemicals.

DESCRIPTION

Fig. 1



PRODUCT SPECIFICATIONS

Motor voltage	20 Volt DC
Switch	Variable Speed
No load Speed	0-2500/min
Saw Weight (without battery)	7.3 lbs.
Stroke Length	1-3/16 In.
Battery Type	Lithium-Ion
Battery Voltage	20.0 Volt DC
Charger Input	120-Volts, 60 Hz AC only
Optimum Charging Temperature	32°F (0° C) -104°F (40°C)

KNOW YOUR RECIPROCATING SAW (Fig. 1)

▲ WARNING: The safe use of this product requires an understanding of the information on the tool and in this product manual, as well as knowledge of the project you are attempting. Before use of this product, familiarize yourself with all operating features and safety rules.

BLADE CLAMP

The saw has a blade clamp design that does not require the use of a tool (blade wrench) when installing or removing the blade. Simply insert the blade into the blade clamp as far as possible; it will lock in position automatically.

LOCK-OFF BUTTON

The lock-off button reduces the possibility of accidental starting. The lock-off button is located on the handle above the trigger switch. Push the lock-off button to the left side in order to depress the trigger switch. Push the lock-off button to the right side to lock the trigger switch.

VARIABLE SPEED

The variable-speed trigger switch delivers higher speed with increased trigger pressure and lower speed with decreased trigger pressure.

ORBITAL ADJUSTMENT KNOB

Choose from three orbital adjustment positions for fine to aggressive cutting.

LED WORKLIGHT

The LED work light, located on the front of the saw, illuminates when the trigger switch is depressed. This feature provides extra light for increased visibility.

ASSEMBLY

▲ WARNING: If any parts are broken or missing, **DO NOT** attempt to attach the battery pack or operate the saw until the broken or missing part is replaced. Failure to do so could result in possible serious injury.

▲ WARNING: Do not attempt to modify this saw or create accessories not recommended for use with this saw. Any such alteration or modification is misuse and could result in a hazardous condition leading to possibly serious injury.

▲ WARNING: **To prevent accidental starting that could cause serious personal injury, always disconnect the tool from the power source when assembling parts.**

UNPACKING

This product has been shipped completely assembled.

1. Carefully remove the tool and accessories from the box. Make sure that all items listed in the packing list are included.

2. Inspect the tool carefully to make sure that no breakage or damage occurred during shipping.
3. Do not discard the packing material until you have carefully inspected and satisfactorily operated the tool.
4. If any parts are damaged or missing, return the product and packaging to the place of purchase.

PACKING LIST

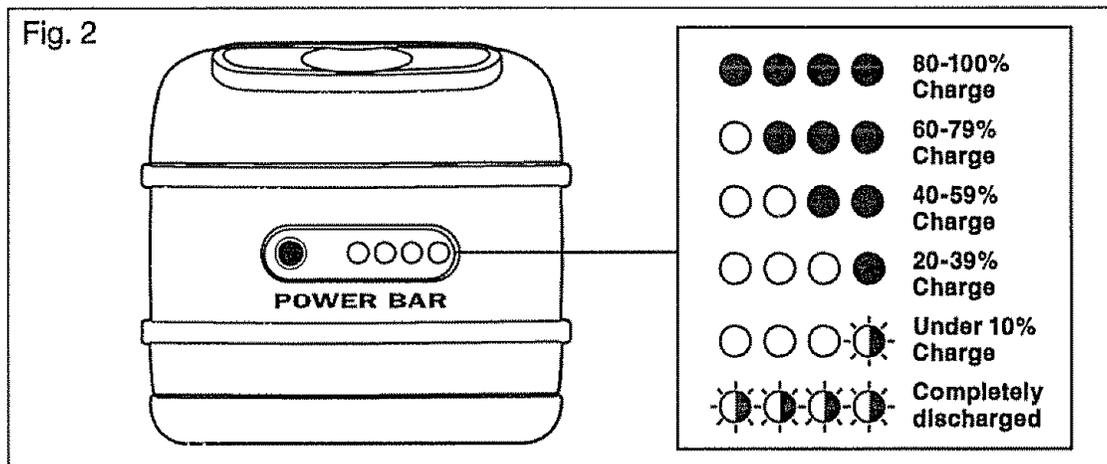
Reciprocating saw, one saw blade and Operator's Manual.

OPERATION

POWER BAR

This Lithium-Ion battery pack is equipped with a POWER BAR, which is used to display the battery pack's remaining run time. Press the POWER BAR button to display the LED lights. The LED lights will stay lit for approximately 4 seconds.

NOTE: The POWER BAR can be used whether the battery is attached or re-



moved from tool.

Low capacity warning

- If one LED on the POWER BAR begins to flash, the battery pack's charge is under 10% capacity and should be recharged.
- Unlike other battery-pack types, Lithium-Ion battery packs deliver fade-free power for their entire run time. The tool will not experience a slow, gradual loss of power as you work. To signal that the battery pack is at the end of its run time and needs to be charged, power to the tool will drop quickly. The POWER BAR will begin to display four flashing LED lights when the battery is completely discharged. When this happens, remove the tool from the work piece, and charge the battery pack as needed.

NOTE: The POWER BAR may also display four flashing LED lights due to an overload or high temperature situation (see SmartChip™ Battery protection).

SmartChip™ BATTERY PROTECTION

SmartChip™ intuitive circuitry protects the battery pack from extreme temperature, over-discharge, and over-charge. To protect the battery from damage and to prolong its life, the battery pack's SmartChip™ circuitry will turn off the battery pack if it becomes overloaded or if the temperature becomes too high during use.

This may happen in extremely high torque, binding, and stalling situations. This intelligent system will shut down your battery pack if its operating temperature exceeds 176°F (80°C) and will begin normal operation when it returns to 32°F (0°C) - 104°F (40°C).

- The POWER BAR will display four flashing LED lights if the SmartChip™ circuitry detects a momentary overload. You can conveniently reset the battery pack by pressing the POWER BAR button. Press the POWER BAR button again to display the remaining charge.

NOTE: If the POWER BAR continues to flash four LED lights after being reset, place the battery pack on the charger to evaluate the battery condition (Fig. 4).

NOTE: A significantly reduced run time after fully charging the battery pack indicates that the battery pack is near the end of its usable life and must be replaced

COLD WEATHER OPERATION

- This Lithium-Ion battery pack will provide optimal performance in temperatures between 32°F (0°C) and 104°F (40°C). When the battery pack is very cold, it may "pulse" for the first minute of use to warm itself up. Put the battery pack on a tool and use the tool in a light application. After about a minute, the battery pack will have warmed itself up and will operate normally.

WHEN TO CHARGE THE BATTERY PACK

The Lithium-Ion battery can be charged at any time and will not develop a "memory" when charged after only a partial discharge. It is not necessary to run down the battery pack charge before recharging. Remove the battery pack from the tool when convenient for you and your job.

- Use the POWER BAR to determine when you need to recharge the battery pack.
- You can add to your battery pack's charge before starting a big job or long period of use.
- Due to Lithium-Ion's fade-free properties, the only time it is necessary to charge the Lithium-Ion battery pack is when the pack has reached the end of its charge. To signal the end of charge, power to the tool will drop quickly. Charge the battery pack as needed.

HOW TO CHARGE THE BATTERY PACK

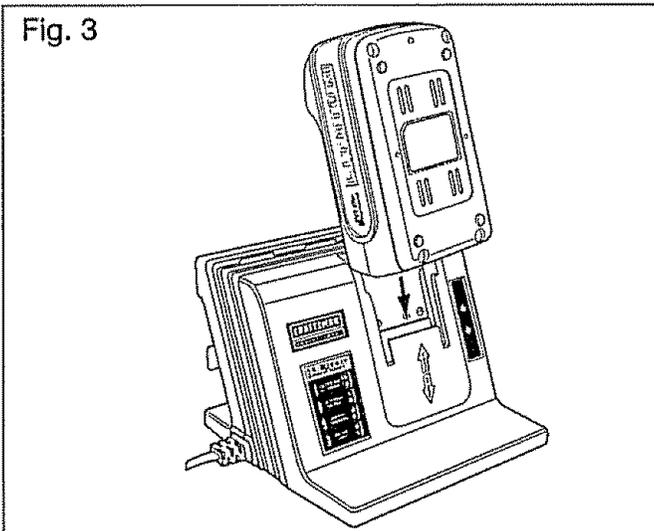
NOTE: This Lithium-Ion battery pack is shipped partially charged. Before using it the first time, fully charge the battery pack.

A fully discharged battery pack with a temperature between 32°F (0°C) and 104°F (40°C) will charge in about 50 minutes.

Charge the Lithium-Ion battery pack only with the correct charger.

1. Connect the charger to a power supply.

2. Attach the battery pack to the charger by aligning the raised ribs of the battery pack with the slot in the charger. Slide the battery pack onto the charger. (Fig. 3)



3. The charger will communicate with the battery pack's SmartChip™ circuitry to evaluate the condition of the battery pack.

4. The POWER BAR LED lights will cycle from right to left during charging.

This is part of the normal charging operation.

5. After charging is complete, the green LED on the charger will come on and the POWER BAR LED lights will go off. The POWER BAR LED lights will not be displayed when the POWER BAR button is pressed while the battery pack is on the charger.

The battery pack will fully charge, but will not overcharge, if left on the charger.

NOTE: For your convenience, the charger can operate with most generators and inverters rated at 300 watts or higher.

LED FUNCTIONS OF CHARGER (Fig. 4)

Fig. 4

LED INDICATOR	BATTERY PACK	RED LED	GREEN LED	ACTION
 HI/LO TEMP. (SEE MANUAL) 	Hot/Cold battery	On	Off	Charging will begin when battery returns to 32°F (0°C) - 104°F (40°C)
 DEFECTIVE BATTERY 	Defective	Flashing	Off	Battery pack or charger is defective
 BATTERY CHARGING 	Charging	Off	Flashing	Charges in 50 minutes
 BATTERY FULL 	Fully charged	Off	On	Charging is complete Maintenance charging

CHARGING A HOT BATTERY PACK

If the battery pack is above normal temperature range, the red LED will be lit and the green LED will be off. When the battery pack cools down to approximately 104°F (40°C), the charger will automatically begin charging.

CHARGING A COLD BATTERY PACK

If the battery pack is below the normal temperature range, the red LED will be lit

and the green LED will be off. When the battery warms to a temperature of more than 32°F (0°C), the charger will automatically begin charging.

DEFECTIVE BATTERY

If the charger detects a problem, the red LED will begin flashing and the green LED will be off.

1. If defective, remove and reinsert the battery pack in the charger. If the LED status reads "defective" a second time, try charging a different battery pack.
2. If a different battery pack charges normally, dispose of the defective battery pack (see Maintenance section).
3. If a different battery pack also indicates "defective," the charger may be defective.

BATTERY CHARGING

If the battery pack is within normal temperature range, the green LED will begin flashing and the red LED will be off. The battery pack will reach a full charge in 50 minutes. The POWER BAR LED lights will cycle right to left during charging. This is part of the normal charging operation. The POWER BAR LED lights will not be displayed when the POWER BAR button is pressed while the battery pack is on the charger.

BATTERY FULL

If the battery pack is within normal temperature range, the green LED will be lit and the red LED will be off. The battery pack is fully charged and ready to use. The battery pack will fully charge, but will not overcharge, if left on the charger. The POWER BAR LED lights will not be displayed when the POWER BAR button is pressed while the battery pack is on the charger.

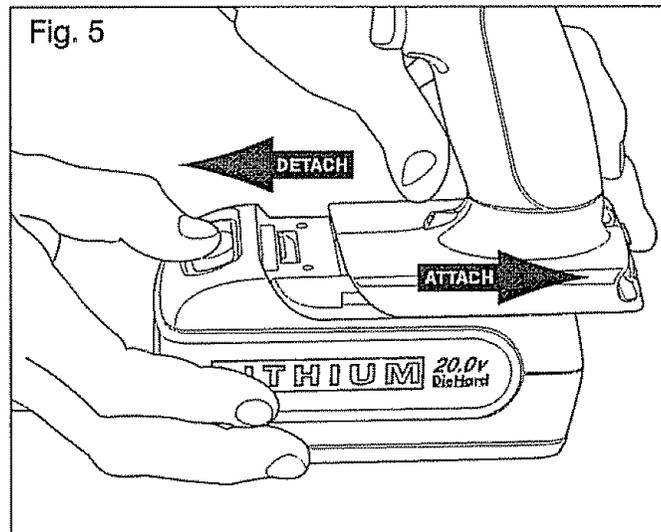
NOTE: Charger may warm up with several continuous charge cycles. This is part of the normal operation of the charger. Always charge in a well ventilated area.

 **CAUTION:** When placing the battery pack in the tool, be sure that the raised rib on the battery pack aligns with the bottom of the saw and that it latches into place properly. Improper installation of the battery pack can cause damage to internal components.

 **WARNING:** Do not attempt to modify this saw or create accessories not recommended for use with this saw. Any such alteration or modification is misuse and could result in a hazardous condition leading to possible serious injury.

TO ATTACH BATTERY PACK (Fig. 5)

1. Align the raised portion on the battery pack with the grooves on the rear of the reciprocating saw, then attach the battery pack to the tool as shown.
2. Make sure the latch on the battery pack snaps into place and that the battery pack is secured to the saw before beginning operation.



TO DETACH BATTERYPACK

1. Press the latch located on the front of the battery pack to release battery pack.
2. Pull forward on the battery pack to remove it from the saw.

⚠ WARNING: Battery tools are always in operating condition. Therefore, the trigger switch should always be locked when not in use or when carrying the tool at your side.

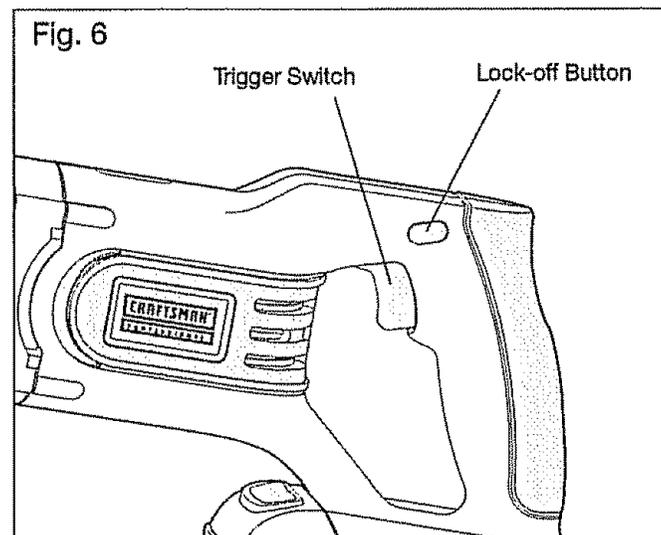
TRIGGER SWITCH (Fig. 6)

1. To turn the saw ON, push the lock-off button to left side then depress trigger switch.
2. To turn it OFF, release the trigger switch and push the lock-off button to right side to lock the trigger switch.

NOTE: The lock-off button can only be activated when the trigger is released.

VARIABLE SPEED (Fig. 6)

The variable speed trigger switch delivers higher speed with increased trigger pressure and lower speed with decreased trigger pressure.



ELECTRIC BRAKE

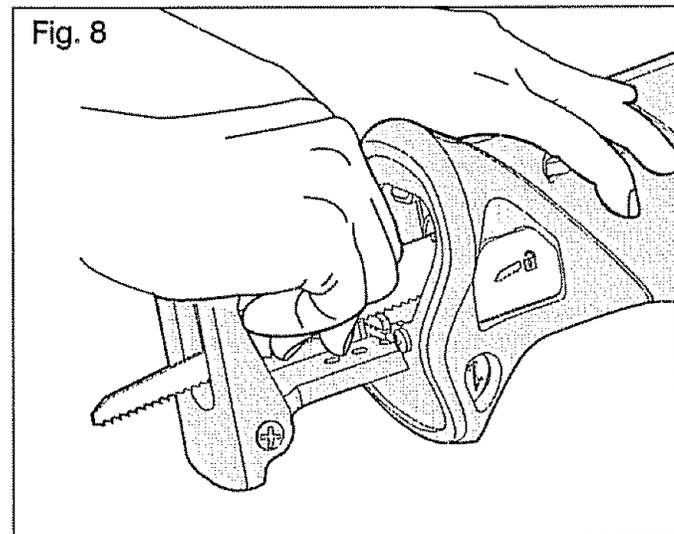
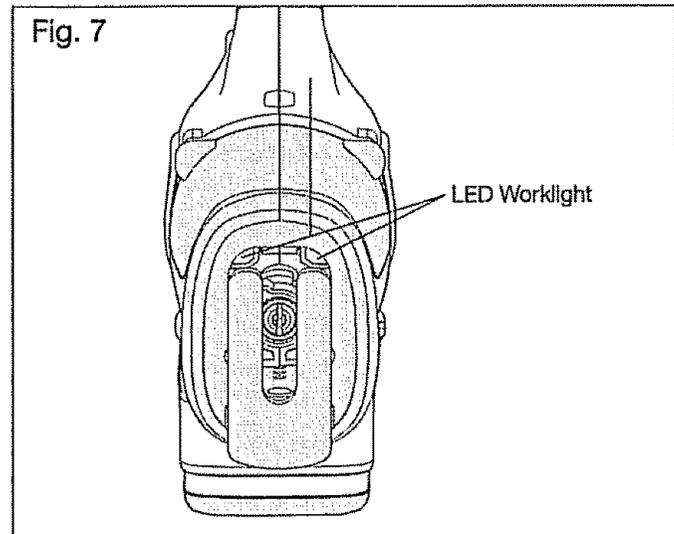
To stop the reciprocating saw, release the trigger switch and allow the tool to come to a complete stop. The electric brake quickly stops the saw from stroking. This feature engages automatically when you release the trigger switch.

LED WORK LIGHT (Fig. 7)

The LED work light located on the front of the saw will come on when the trigger switch is depressed. The LED work light will turn off when the trigger switch is released. This provides additional lighting on the surface of the work piece for operation in lower-light areas.

INSTALLING SAW BLADE (Fig. 8)

1. Remove the battery pack.
2. Insert the saw blade into the blade clamp as far as possible; it will lock in position automatically.



REMOVING SAW BLADE (Fig. 9)

1. Remove battery pack.
2. Turn down the blade clamp lever.
3. Remove the blade saw from the blade clamp.

BLADE SELECTION

To obtain the best performance from the saw, it is important to select the correct blade for the particular application and type of material you wish to cut. By doing this, you will get a smoother, faster cut and prolong blade life.

BASE (SHOE) ASSEMBLY

To Slide Shoe In or Out (Fig. 10)

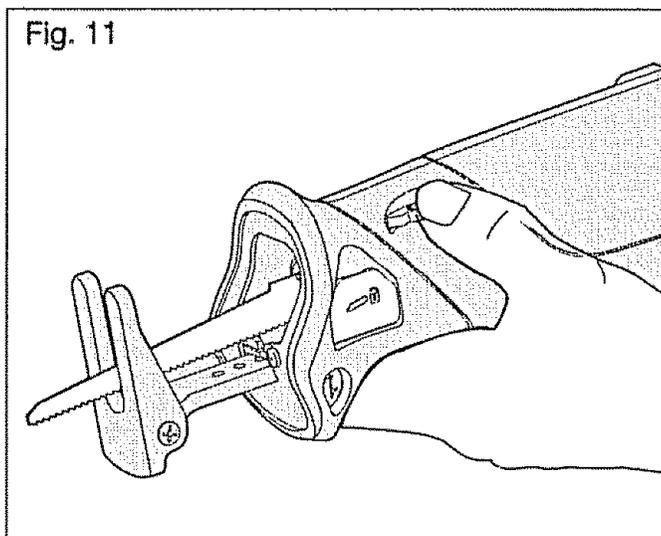
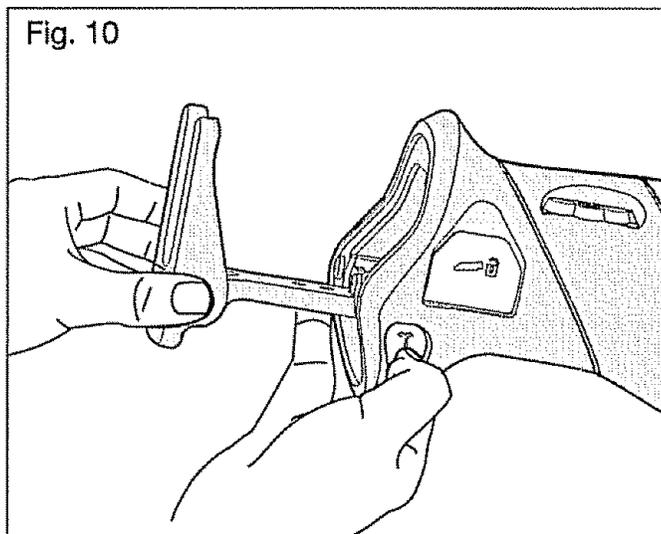
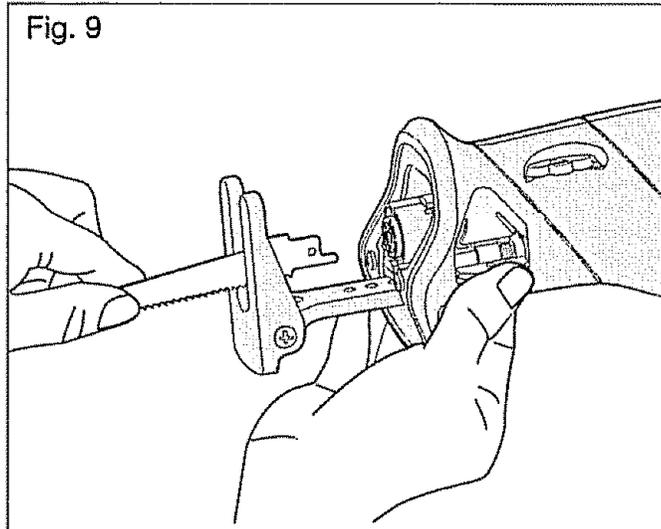
The base assembly slides in or out to adjust the effective stroke length for maximum control and longer blade life.

1. Remove the battery pack.
2. Press the shoe's release button and slide shoe out to desired position. The shoe can be locked in any of 4 positions.
3. Release the shoe's release button to lock the shoe in desired position.

To Pivot Shoe (Fig. 11)

The shoe pivots to provide maximum control against the surface being cut.

1. Remove the battery pack.
2. Hold the saw securely, and then pivot the shoe to the desired position.



ORBITAL ADJUSTMENT KNOB

This saw has an orbital control with three positions that allows you to choose the best cutting action for your material.

- Position 2 is for maximum orbital action (most aggressive). In general, the “2” position should be used when cutting soft materials.
 - Position 1 is for less orbital action. In general, the “1” position should be used when cutting hard materials.
 - Position 0 is for normal up and down action (no orbital actions). In general, the “0” position should be used when cutting metals.
1. To increase the orbital action, turn the knob to a higher setting.
 2. To decrease the orbital action, turn the knob to a lower setting.

GENERAL CUTTING

1. Firmly hold the saw in front of you and away from you.
2. Make sure that the saw blade is clear of any foreign material.
3. Make sure that the material to be cut is securely supported. Small work pieces must be securely clamped in a vise or with clamps to a workbench or table.
4. Clearly mark the line of cut.
5. Push the lock-off button to left side, then depress trigger switch to start the cutting action.
6. Place the base assembly (shoe) against the work, then move the blade into the work.
7. Do not force. Use only enough pressure to keep the saw cutting. Let the blade and saw do the work. Use of excessive pressure that causes bending or twisting of the blade may result in broken blades.

PLUNGE CUTTING

1. Clearly mark the line of cut.
2. Choose a convenient starting point inside the area to be cut out, and place the tip of the blade above that point.
3. Rest the front edge of base assembly (shoe) on the work piece and hold it firmly in position.
4. Push the lock-off button to the left side, then depress the trigger switch to start the cutting action.
5. With the saw blade at full cutting speed, slowly tilt saw downward until tip of blade starts cutting the work piece.
6. After the blade penetrates the work piece, tilt the saw until the blade is perpendicular to the work piece.

METAL CUTTING

Metals such as sheet steel, pipe, steel rods, aluminum, brass, and copper may be cut with the saw. Be careful not to twist or bend the saw blade. Do not force.

The use of cutting oil is recommended when cutting soft metals and steel. Cutting oil will keep the blade cool, increase cutting action, and prolong blade life. Never use gasoline; normal sparking could ignite fumes.

Securely clamp the work piece, and make the cut close to the clamping point to minimize vibration of the work being cut. When cutting conduit pipe or angle iron, clamp the work in a vise, if possible, and cut close to the vise. To cut thin sheet material, "sandwich" the material between hardboard or plywood and clamp the layers to eliminate vibration and material tearing.

MAINTENANCE

GENERAL MAINTENANCE

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

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

▲ WARNING: To avoid serious personal injury, always remove the battery pack from the tool and unplug the charger when cleaning or performing any maintenance.

BATTERIES

The battery pack is equipped with Lithium-Ion rechargeable batteries. The duration of use from each charge will depend on the type of work performed.

The batteries for this tool have been designed to provide maximum trouble-free life. Like all batteries, they will eventually wear out. Do not disassemble the battery pack or attempt to replace the batteries. Handling of the batteries, especially when wearing rings and jewelry, could result in a serious burn.

To obtain the longest possible battery life, read and understand the operators manual.

It is good practice to unplug the charger and remove the Lithium-Ion battery pack when not in use. For Lithium-Ion battery pack storage longer than 30 days:

- Store the Lithium-Ion battery pack where the temperature is below 80°F (26°C) and free of moisture.
- Store Lithium-Ion battery packs in a 30%-50% charged condition.
- Every six months of storage, fully charge the Lithium-Ion battery pack.
- Exterior may be cleaned with a cloth or soft non-metallic brush.



BATTERY PACK REMOVAL AND PREPARATION FOR RECYCLING

To preserve natural resources, please recycle or dispose of batteries properly. This product contains lithium-ion batteries. Local, state 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.

▲ WARNING: Upon removal, cover the battery pack's terminals with heavy-duty adhesive tape. Do not attempt to destroy or disassemble the battery pack or remove any of its components. Lithium-ion batteries must be recycled or disposed of properly. Also, never touch the terminals with metal objects and/or body parts as a short circuit may result. Keep away from children. Failure to comply with these warnings could result in fire and/or serious injury.

TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
The trigger cannot be depressed	The "LOCK-OFF" switch is engaged	Release the lock-off switch
The Saw does not work	Battery is depleted	Charge the battery
	Battery is protected	Reset the battery by depressing the "Power Bar"

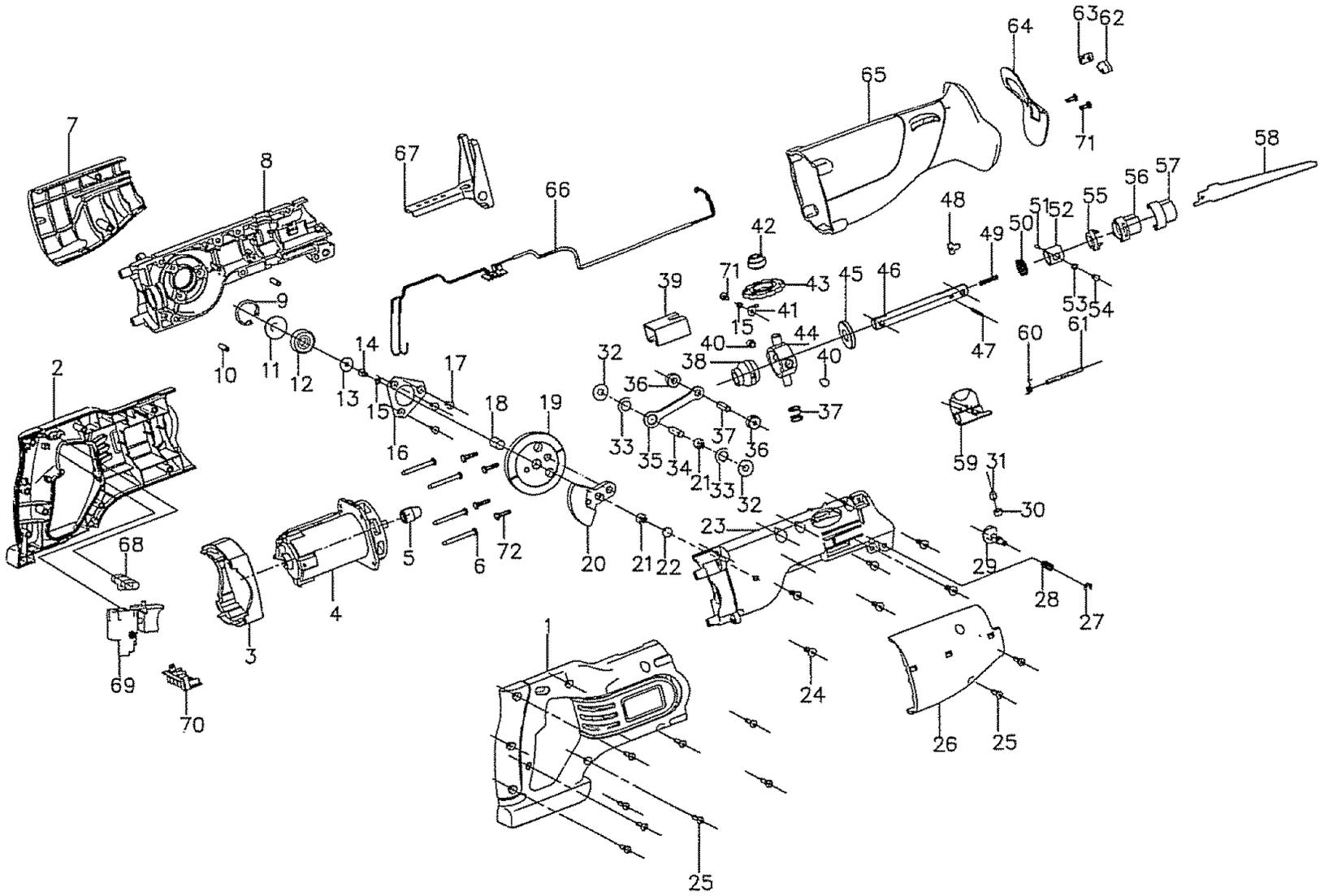
PARTS LIST

20.0-Volt Lithium-Ion Cordless Reciprocating Saw. Model number 320.26314. The model number is also found on the tool's nameplate. Always mention the tool's model number when ordering parts.

No.	Part No.	Description	Quantity
1	3320414000	Right Housing	1
2	3320415000	Left Housing	1
3	3123019000	Lantern Ring	1
4	2730124000	DC Motor	1
5	3550724000	pinion	1
6	5610047000	Tapping Screw	4
7	3123263000	Left Fan Baffle	1
8	3420512000	Left Gear Case	1
9	5660020000	Circlips For Hole	1
10	5670157000	Pin	2
11	3123268000	Dust Cover	1
12	5700048000	Ball Bearing	1
13	3700353000	Washer	1
14	5620039000	Screw	1
15	5650007000	Spring Washer	2
16	3703833000	Bearing Clamping Plate	1
17	5610083000	Thread Forming Screw	3
18	3550728000	Shaft	1
19	3550726000	Gear	1
20	2822344000	Counterweight Assembly	1
21	5700025000	Needle Bearing	2
22	5650189000	Gasket	1
23	3420513000	Right Gear Case	1
24	5610058000	Thread Forming Screw	6
25	5610042000	Tapping Screw	10
26	3123264000	Right Fan Baffle	1
27	5660003000	E Ring	1
28	3660294000	Spring	1
29	3402190000	Push Button	1

No.	Part No.	Description	Quantity
30	3550785000	Bush	1
31	3550782000	Lock Pin	1
32	5650198000	Washer	2
33	3123021000	Gasket	2
34	5670146000	Pin	1
35	3550731000	Link	1
36	3520230000	Guiding Roller	2
37	3660295000	Spring	1
37	5670147000	Pin	1
38	3520228000	Oil Impregnating Bearing	1
39	3703890000	Drive Bracket	1
40	3550730000	Shaft	2
41	3703834000	Plate Spring	1
42	3550786000	Screw Sleeve	1
43	3402189000	Pendulum Lever	1
44	3550784000	Bearing Support	1
45	5690137000	Seal Ring	1
46	3550737000	Plunger	1
47	5670149000	Pin	1
48	3550739000	Sliding Block	1
49	3660265000	Spring	1
50	3660263000	Torsion Spring	1
51	5670150000	Pin	1
52	3550740000	Bush	1
53	3660264000	Spring	1
54	3550738000	Shaft	1
55	3520253000	Hoop	1
56	3520233000	Rotate Bush	1
57	3123224000	Sleeve	1
58	3810008000	Reciprocating saw Blade	1
59	3402154000	Lever	1
60	3660260000	Torsion Spring	1
61	3550727000	shaft	1
62	3123266000	Right Indicator Cover	1

No.	Part No.	Description	Quantity
63	3123265000	Left Indicator Cover	1
64	3703854000	Front Handle Support	1
65	3123023000	Front Handle	1
66	4890336000	PCB Assembly	1
67	2822264000	Pivot Shoe	1
68	3123267000	Button	1
69	4870303000	Switch	1
70	3400260000	Contact Receptacle ASSY	1
71	5610097000	Thread Forming Screw	3
72	5610094000	Thread Forming Screw	4



PARTS LIST

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