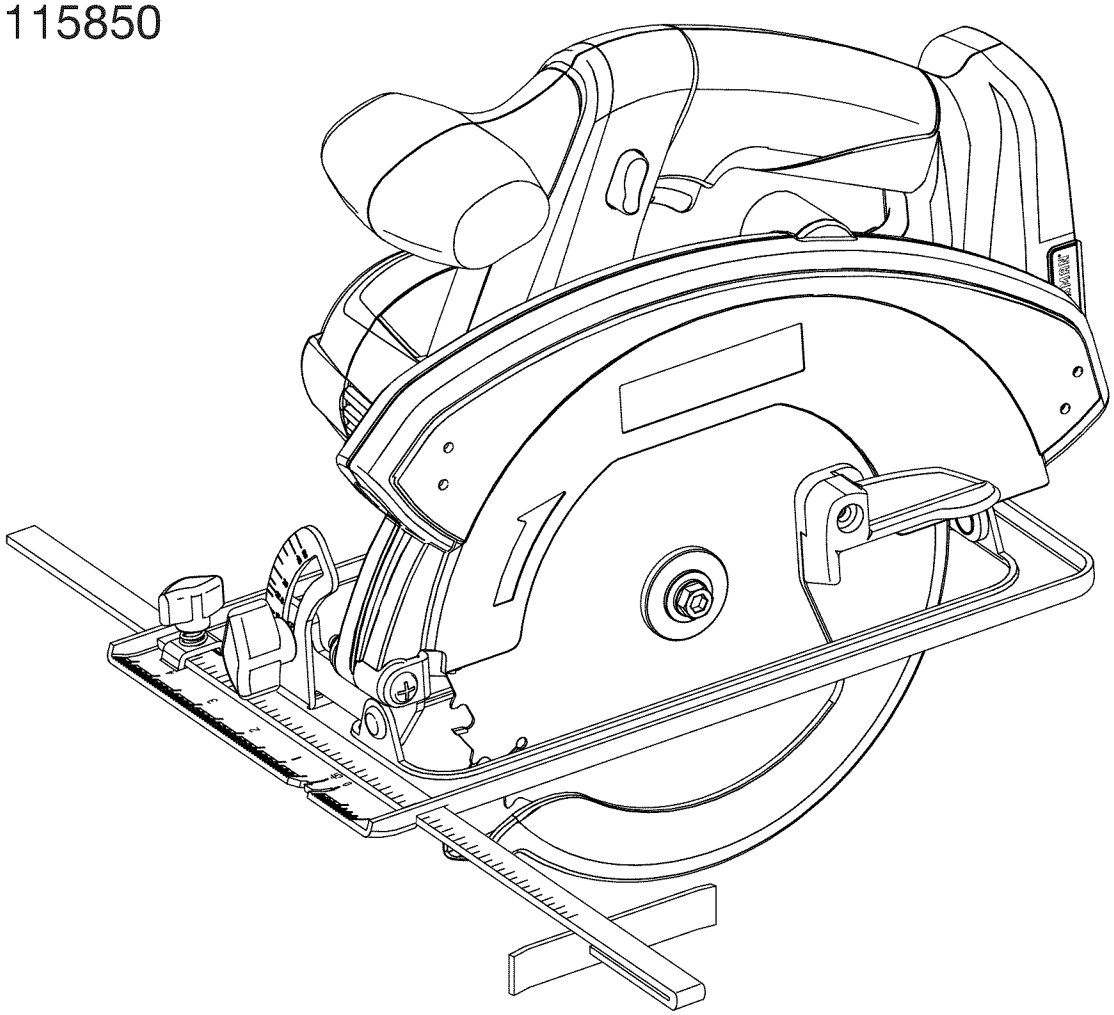
OPERATOR'S MANUAL

CRAFTSMAN®

7-1/4 in., 19.2 VOLT
CORDLESS DUAL LASER CIRCULAR SAW

Model No.
315.115850



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

BATTERIES AND CHARGERS SOLD SEPARATELY

Customer Help Line: 1-800-932-3188

Sears, Roebuck and Co., 3333 Beverly Rd., Hoffman Estates, IL 60179 USA
Visit the Craftsman web page: www.sears.com/craftsman

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983000-797
10-29-08 (REV:03)

Save this manual for future reference

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WARRANTY

ONE-YEAR FULL WARRANTY ON CRAFTSMAN TOOL

If this Craftsman tool fails to give complete satisfaction within one year from date of purchase, **RETURN IT TO ANY SEARS STORE OR OTHER CRAFTSMAN OUTLET IN THE UNITED STATES FOR FREE REPLACEMENT.**

If this Craftsman tool is used for commercial or rental purposes, this warranty applies for only 90 days from the date of purchase.

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

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 power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known 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, and
- 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.

GENERAL SAFETY RULES

WARNING! Read all instructions. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury. The term "power tool" in all of the warnings listed below refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

SAVE THESE INSTRUCTIONS

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 can cause you to lose control.

ELECTRICAL SAFETY

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

<table>
<tr><th>MODEL</th><th>BATTERY PACK (Li-ion)</th><th>CHARGER</th></tr>
<tr><td rowspan="3">315.115850</td><td>315.113740
(130285003,
130285006)
315.113710
(130156001)</td><td>(Multi-Chemistry)
315.259260
(140351001)</td></tr>
<tr><td>BATTERY PACK (Ni-Cd)</td><td rowspan="2">315. 259260
(140351001)
1425301 (ª11041)
315.115730
(140301003)
315.115720
(140301001)</td></tr>
<tr><td>130279003,
130279005
(Item No. ª11375)</td></tr>
</table>

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 mask, 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 a key left attached to a rotating part of the power tool may result in personal injury.
- **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- **Dress properly. Do not wear loose clothing or 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.
- **Do not wear loose clothing or jewelry. Contain long hair.** Loose clothes, jewelry, or long hair can be drawn into air vents.
- **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.

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 designed.
- **Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- **Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.
- **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.
- **Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired**

GENERAL SAFETY RULES

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 into account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation.

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.

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.

⚠ **WARNING!** To reduce the risk of injury, user must read instruction manual.

- **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

- **DANGER! Keep hands away from cutting area and the blade. Keep your second hand on auxiliary handle or motor housing.** If both hands are holding the saw, they cannot be cut by the blade.
- **Do not reach underneath the workpiece.** The guard cannot protect you from the blade below the workpiece.
- **Adjust the cutting depth to the thickness of the workpiece.** Less than a full tooth of the blade teeth should be visible below the workpiece.
- **Never hold piece being cut in your hands or across your leg. Secure the workpiece to a stable platform.** It is important to support the work properly to minimize body exposure, blade binding, or loss of control.
- **Hold tool by insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring or its own cord.** Contact with a "live" wire will make exposed metal parts of the tool "live" and shock the operator.
- **When ripping, always use a rip fence or straight edge guide.** This improves the accuracy of cut and reduces the chance of blade binding.
- **Always use blades with correct size and shape (diamond versus round) of arbor holes.** Blades that do not match the mounting hardware of the saw will run eccentrically, causing loss of control.
- **Never use damaged or incorrect blade washers or bolt.** The blade washers and bolt were specially designed for your saw for optimum performance and safety of operation.
- **Never use abrasive wheels with the circular saw.**

SPECIFIC SAFETY RULES

CAUSES AND OPERATOR PREVENTION OF KICKBACK:

Kickback is a sudden reaction to a pinched, bound, or misaligned saw blade, causing an uncontrolled saw to lift up and out of the workpiece toward the operator.

When the blade is pinched or bound tightly by the kerf closing down, the blade stalls and the motor reaction drives the unit rapidly back toward the operator.

If the blade becomes twisted or misaligned in the cut, the teeth at the back edge of the blade can dig into the top surface of the wood causing the blade to climb out of the kerf and jump back toward the operator.

Kickback is the result of saw misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions, as given below:

- **Maintain a firm grip with both hands on the saw and position your arms to resist kickback forces. Position your body to either side of the blade, but not in line with the blade.** Kickback could cause the saw to jump backwards, but kickback forces can be controlled by the operator, if proper precautions are taken.
- **When blade is binding, or when interrupting a cut for any reason, release the trigger and hold the saw motionless in the material until the blade comes to a complete stop. Never attempt to remove the saw from the work or pull the saw backward while the blade is in motion, or kickback may occur.** Investigate and take corrective actions to eliminate the cause of blade binding.
- **When restarting a saw in the workpiece, center the saw blade in the kerf and check that saw teeth are not engaged into the material.** If saw blade is binding, it may walk up or kickback from the workpiece as the saw is restarted.
- **Support large panels to minimize the risk of blade pinching and kickback.** Large panels tend to sag under their own weight. Supports must be placed under the panel on both sides, near the line of cut and near the edge of the panel.
- **Do not use dull or damaged blades.** Unsharpened or improperly set blades produce narrow kerf causing excessive friction, blade binding and kickback.
- **Blade depth and bevel adjusting locking levers must be tight and secure before making cut.** If blade adjustment shifts while cutting, it may cause binding and kickback.
- **Use extra caution when making a "plunge cut" into existing walls or other blind areas.** The protruding blade may cut objects that can cause kickback.
- **Check lower guard for proper closing before each use. Do not operate saw if lower guard does not move freely and close instantly. Never clamp or tie the lower guard into the open position.** If saw is accidentally dropped, lower guard may be bent. Raise the lower guard with the retracting handle. Make sure it moves freely and does not touch the blade or any other part, in all angles and depths of cut.
- **Check the operation of the lower guard spring. If the guard and the spring are not operating properly, they must be serviced before use.** Lower guard may operate sluggishly due to damaged parts, gummy deposits, or a buildup of debris.
- **Lower guard should be retracted manually only for special cuts, such as "plunge cuts" and "compound cuts." Raise lower guard by retracting handle. As soon as blade enters the material, the lower guard must be released.** For all other sawing, the lower guard should operate automatically.
- **Always observe that the lower guard is covering the blade before placing saw down on bench or floor.** An unprotected, coasting blade will cause the saw to walk backwards, cutting whatever is in its path. Be aware of the time it takes for the blade to stop after switch is released.
- **Know your power tool. Read operator's manual carefully. Learn its applications and limitations, as well as the specific potential hazards related to this power tool.** Following this rule will reduce the risk of electric shock, fire, or serious injury.
- **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 personal injury.
- **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.

SPECIFIC SAFETY RULES

- **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 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.
- **For best results, your battery tool should be charged in a location where the temperature is more than 50°F but less than 100°F. Do not store outside or in vehicles.**
- **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 into 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.
- **If the power supply cord is damaged,** it must be replaced only by the manufacturer or by an authorized service center to avoid risk.

LASER GUIDE WARNINGS:

The laser guide radiation used in the Craftsman circular saw is Class IIIa with maximum <5mW and 650nm wavelengths. These lasers do not normally present an optical hazard although staring at the beam may cause flash blindness.

- Avoid direct eye exposure when using the laser guide.
- The laser shall be used and maintained in accordance with the manufacturer's instructions.
- Never aim the beam at a person or object other than the workpiece.
- Always ensure the laser beam is aimed at a sturdy workpiece without reflective surfaces. Shiny reflective sheet metal or similar shiny materials are not suitable for laser use.
- All repairs should be made by an authorized service representative or the laser manufacturer.
- **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.

SYMBOLS

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

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_o	No Load Speed	Rotational speed, at no load
⧈	Class II Tool	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 Operator's Manual	To reduce the risk of injury, user must read and understand operator's manual before using this product.
	Eye Protection	Always wear safety goggles or safety glasses with side shields and, as necessary, 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.

SYMBOLS

The following signal words and meanings are intended to explain the levels of risk associated with this product.

SYMBOL	SIGNAL	MEANING
⚠	**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.

SERVICE

Servicing requires extreme care and knowledge and should be performed only by a qualified service technician. For service we suggest you return the product to your nearest **SEARS PARTS AND REPAIR SERVICE CENTER** for repair. When servicing, use only identical replacement parts.

⚠ **WARNING:** To avoid serious personal injury, do not attempt to use this product until you read thoroughly and understand completely the operator's manual. If you do not understand the warnings and instructions in the operator's manual, do not use this product. Call the Craftsman Consumer Helpline at 1-800-932-3188 for assistance.

⚠ **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, when needed, a full face shield. 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.

SAVE THESE INSTRUCTIONS

FEATURES

PRODUCT SPECIFICATIONS

Motor	19.2 Volt DC
Blade Diameter	7-1/4 in.
Blade Arbor	5/8 in.
Cutting Depth at 90°	2-3/8 in.
Cutting Depth at 45°	1-13/16 in.
No Load Speed	3,500 r/min. (RPM)
Laser Guide	Class IIIa, <5 mW, 650nm

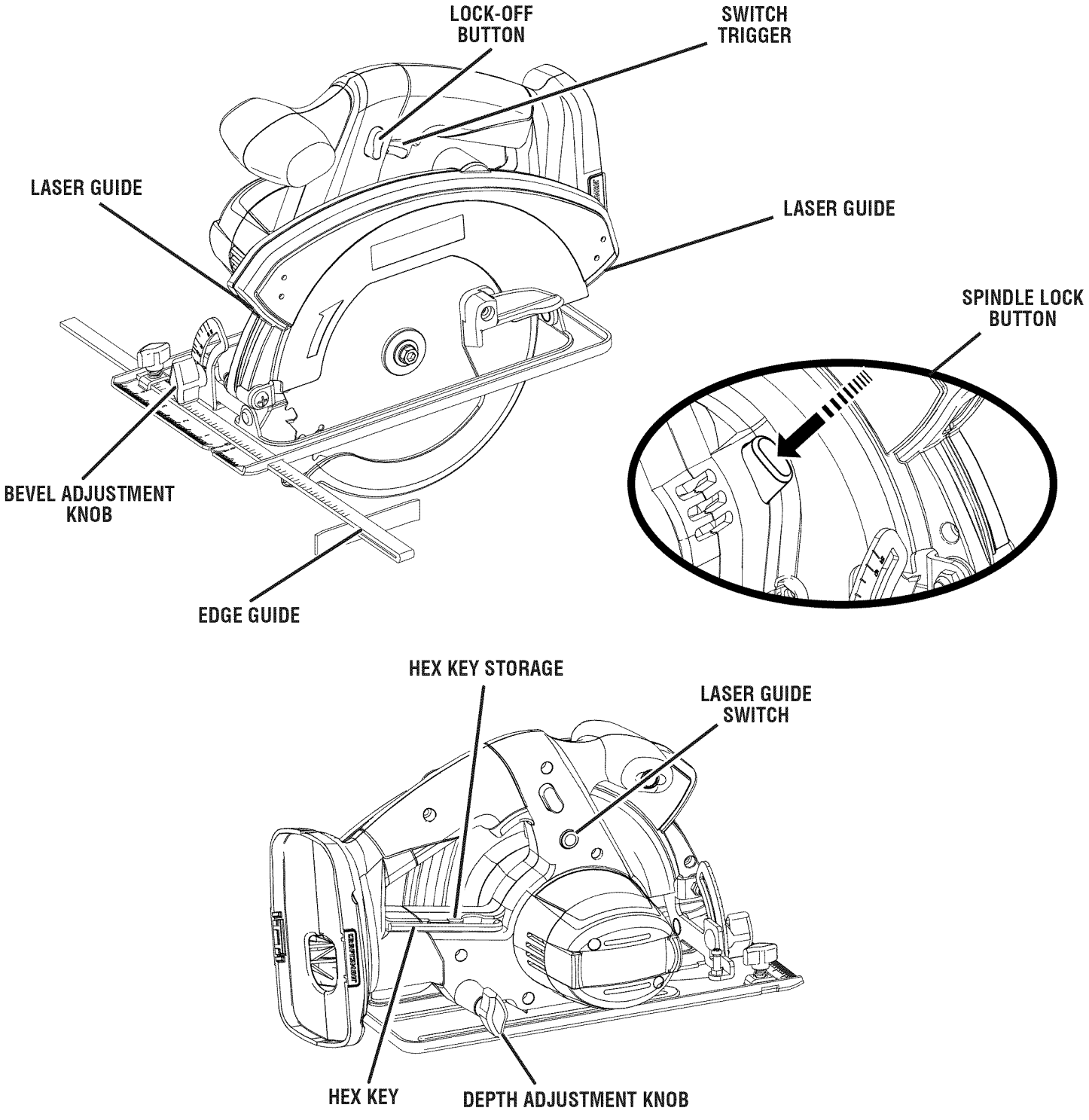


Fig.1

FEATURES

KNOW YOUR DUAL LASER CIRCULAR SAW

See Figure 1.

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

BEVEL ADUSTMENT KNOB

The bevel adjustment knob allows you to set the circular saw for bevel cuts from 0° to 50°.

DEPTH ADJUSTMENT KNOB

The depth adjustment knob adjusts the depth of cut from 0 in. to 2-3/8 in.

EDGE GUIDE

The edge guide is used when making long or wide rip cuts with the saw.

ERGONOMIC DESIGN

This tool is designed for comfort and ease of operation in different positions and at different angles. The design of your circular saw helps maintain proper two-hand control during operation.

HEX KEY STORAGE

This convenient storage area stores your hex key for quick blade changes.

LASER GUIDES

The laser guides will generate a red laser beam on the work surface in front of and behind the saw when turned on.

LOCK-OFF BUTTON

The lock-off button reduces the possibility of accidental starting.

SPINDLE LOCK BUTTON

The spindle lock allows you to secure the blade when turning the blade screw.

NOTE: Do not run circular saw with spindle lock engaged.

WIDTH OF CUT SCALE

When making straight cross cuts or rip cuts, the scale can be used to measure up to 4-1/2 in. on the right side of the blade, and up to one inch on the left side of the blade.

ASSEMBLY

UNPACKING

This product requires assembly.

- Carefully remove the tool and any accessories from the box. Make sure that all items listed in the packing list are included.
- Inspect the tool carefully to make sure no breakage or damage occurred during shipping.
- Do not discard the packing material until you have carefully inspected and satisfactorily operated the tool.
- If any parts are damaged or missing, please call 1-800-932-3188 for assistance.

PACKING LIST

Dual Laser Circular Saw

7-1/4 in. Blade

Edge Guide

Hex Key (5 mm)

Operator's Manual

WARNING: If any parts are damaged or missing do not operate this tool until the parts are replaced. Failure to heed this warning could result in serious personal injury.

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

WARNING: To prevent accidental starting that could cause serious personal injury, always remove the battery pack from the tool when assembling parts.

ASSEMBLY

INSTALLING THE BLADE

See Figures 2 - 3.

WARNING: A 7-1/4 in. blade is the maximum blade capacity of the saw. Never use a blade that is too thick to allow outer blade washer to engage with the flats on the spindle. Larger blades will come in contact with the blade guard, while thicker blades will prevent blade screw from securing blade on spindle. Either of these situations could result in a serious accident.

- Remove the battery pack from the saw.
- Remove the hex key from the storage area.
- Depress and hold the spindle lock button and remove the blade screw and outer blade washer.

  NOTE: Turn the blade screw clockwise to remove.

WARNING: If the inner blade washer has been removed, replace it before placing blade on spindle. Failure to do so could cause an accident since blade will not tighten properly.

- Fit the saw blade inside the lower blade guard and onto the inner blade washer.

  NOTE: The saw teeth point upward at the front of the saw.
- Replace the outer blade washer.
- Depress and hold the spindle lock button, then replace the blade screw. Tighten the blade screw securely.

  NOTE: Turn the blade screw counterclockwise to tighten.
- Return the hex key to the storage area.

NOTE: Never use a blade that is too thick to allow the outer blade washer to engage with the flats on the spindle.

REMOVING THE BLADE

See Figure 3.

- Remove battery pack from saw.
- Remove hex key from storage area.
- Depress and hold the spindle lock button, and remove blade screw.

  NOTE: Turn blade screw clockwise to remove.
- Remove outer blade washer.

  NOTE: Blade can be removed at this point.

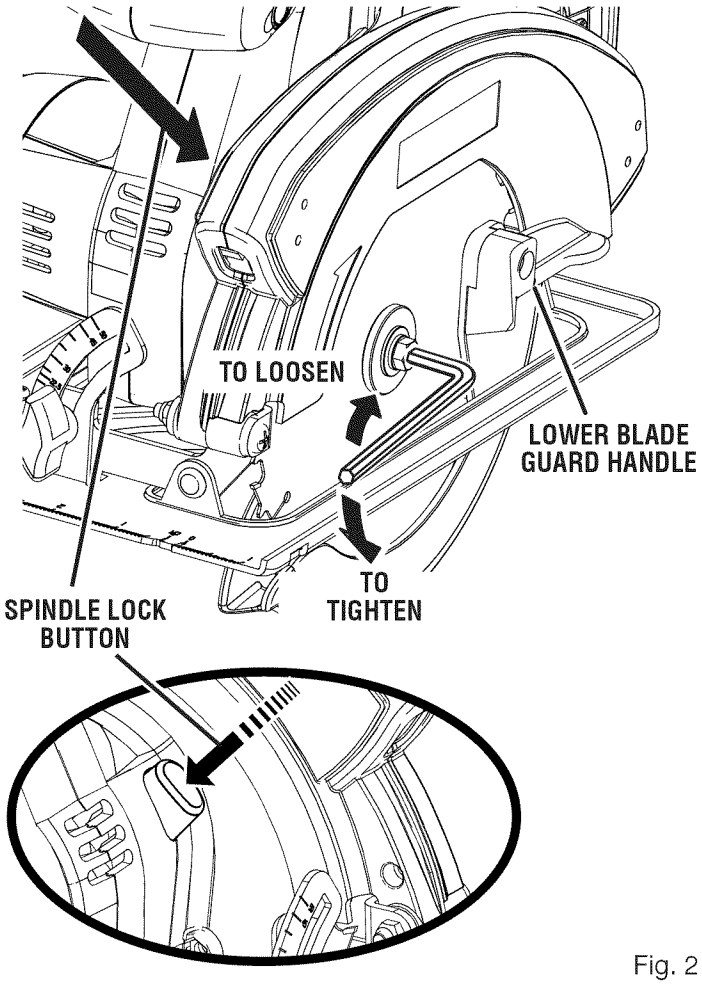


Fig. 2

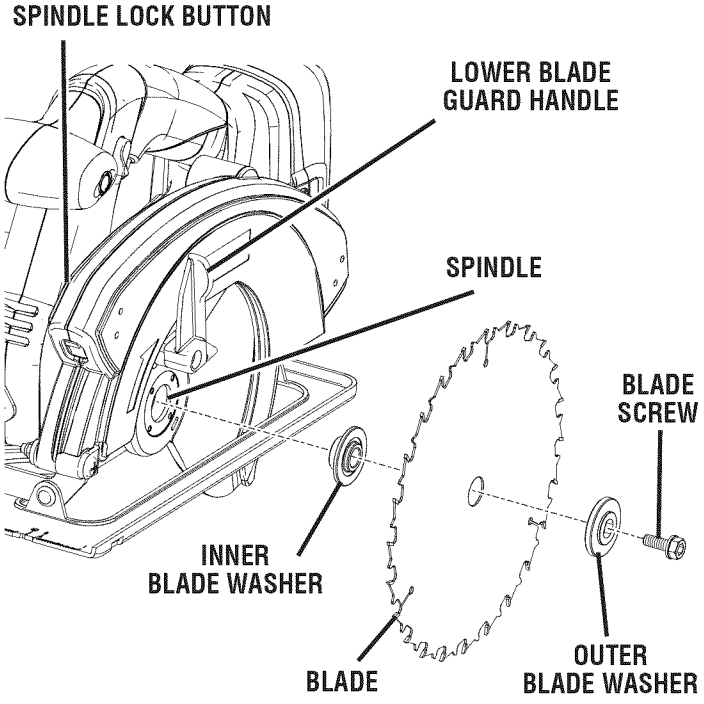


Fig. 3

OPERATION

WARNING: Do not allow familiarity with tools to make you careless. Remember that a careless fraction of a second is sufficient to inflict serious injury.

WARNING: Always wear safety goggles or safety glasses with side shields when operating tools. Failure to do so could result in objects being thrown into your eyes, resulting in possible serious injury.

WARNING: Do not use any attachments or accessories not recommended by the manufacturer of this tool. The use of attachments or accessories not recommended can result in serious personal injury.

APPLICATIONS

You may use this tool for the purposes listed below:

- Cutting all types of wood products (lumber, plywood, paneling)
- Cross Cutting/Rip Cutting
- Bevel Cutting
- Pocket Cutting

This product will accept DieHard® 19.2 V lithium-ion battery packs and Craftsman 19.2 V nickel-cadmium battery packs.
For complete charging instructions, refer to the Operator's Manual for the battery packs and chargers listed in the General Safety Rules.

BATTERY PROTECTION FEATURES

DieHard® 19.2 V lithium-ion battery packs are designed with features that protect the lithium-ion cells and maximize battery life.

If the tool stops during use, release the trigger to reset and resume operation. If the tool still does not work, the battery needs to be recharged.

TO INSTALL BATTERY PACK

See Figure 4.

- Place the battery pack in the saw. Align the raised rib on the battery pack with the groove inside the saw, then slide the battery pack into the saw.
- Make sure the latches on each side of the battery pack snap into place and the battery pack is secured in the saw before beginning operation.

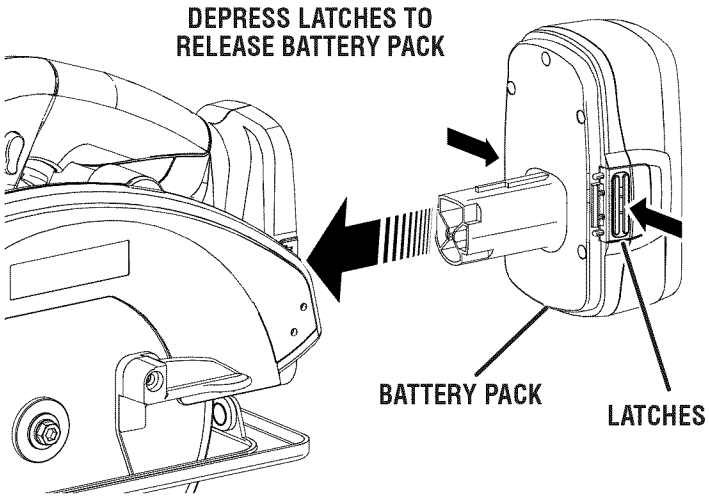


Fig. 4

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

WARNING: Always remove battery pack from your tool when you are assembling parts, making adjustments, cleaning, or when not in use. Removing battery pack will prevent accidental starting that could cause serious personal injury.

TO REMOVE BATTERY PACK

See Figure 4.

- Locate the latches on side of battery pack and depress to release the battery pack from the saw.
- Remove the battery pack.

OPERATION

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

KICKBACK

See Figures 5 - 8.

Kickback occurs when the blade stalls rapidly and the saw is driven back toward you. Blade stalling is caused by any action which pinches the blade in the wood.

DANGER: Release switch immediately if blade binds or saw stalls. Kickback could cause you to lose control of the saw. Loss of control can lead to serious injury.

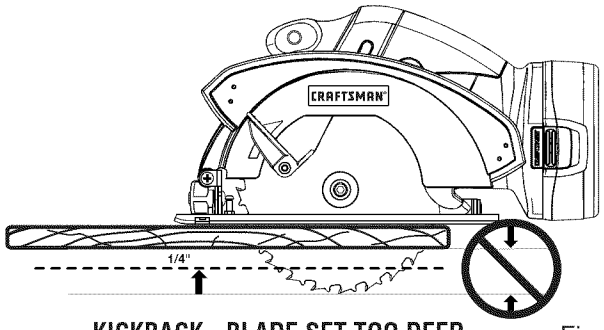
To guard against kickback, avoid dangerous practices such as the following:

- Setting blade depth incorrectly
- Sawing into knots or nails in workpiece
- Twisting the blade while making a cut
- Making a cut with a dull, gummed up, or improperly set blade
- Supporting the workpiece incorrectly
- Forcing a cut
- Cutting warped or wet lumber
- Operating the tool incorrectly or misusing the tool

To lessen the chance of kickback, follow these safety practices:

- Keep blade at the correct depth setting. The depth setting should not exceed 1/4 in. below the material being cut.
- Inspect the workpiece for knots or nails before cutting. Never saw into a knot or nail.
- Make straight cuts. Always use a straight edge guide when rip cutting. This helps prevent twisting the blade.
- Use clean, sharp, and properly set blades. Never make cuts with dull blades.
- Support the workpiece properly before beginning a cut.
- Use steady, even pressure when making a cut. Never force a cut.
- Do not cut warped or wet lumber.
- Hold the saw firmly with both hands and keep your body in a balanced position to resist the forces if kickback should occur.

WARNING: When using the saw, always stay alert and exercise control. Do not remove the saw from the workpiece while the blade is moving.



KICKBACK - BLADE SET TOO DEEP

Fig. 5

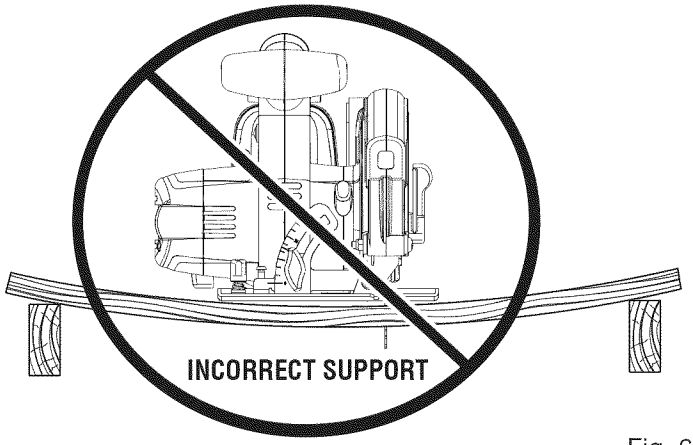
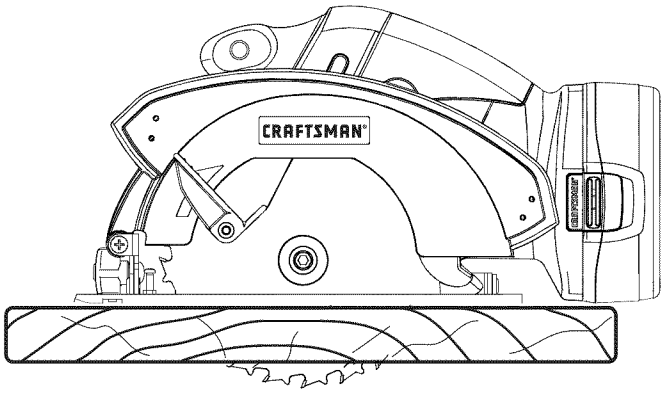
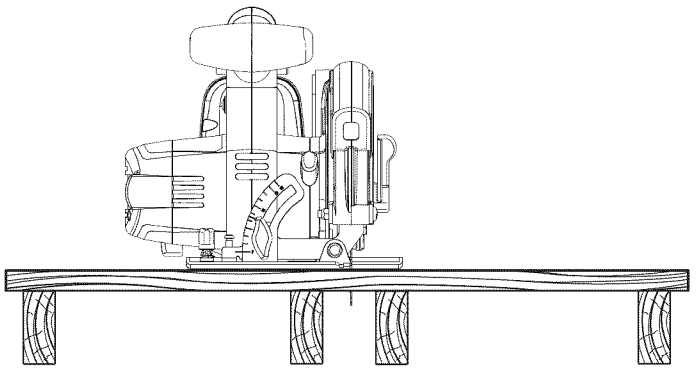


Fig. 6



CORRECT BLADE DEPTH = BLADE EXPOSED 1/4 in. OR LESS ON UNDERSIDE OF WORKPIECE

Fig. 7



CORRECT SUPPORT

Fig. 8

OPERATION

SAW BLADES

Saw blades will not cut efficiently if they are not kept clean, sharp, and properly set. Using a dull blade will place a heavy load on the saw and increase the danger of kickback. Keep extra blades on hand so that sharp blades are always available.

Gum and wood pitch hardened on blades will slow the saw down. Remove saw blade from the saw and use gum and pitch remover, hot water, or kerosene to remove these accumulations. **DO NOT USE GASOLINE.**

BLADE GUARD SYSTEM

See Figure 9.

The lower blade guard attached to the saw is there for your protection and safety. Do not alter it for any reason. If it becomes damaged, do not operate the saw until you have the guard repaired or replaced. Always leave guard in operating position when using the saw.

DANGER: When sawing through work, lower blade guard does not cover blade on the underside of work. Since blade is exposed on underside of work, keep hands and fingers away from cutting area. Any part of your body coming in contact with moving blade will result in serious injury.

CAUTION: Never use saw when the guard is not operating correctly. Check the guard for correct operation before each use. The guard is operating correctly when it moves freely and readily returns to the closed position. If you drop the saw, check the lower blade guard and bumper for damage at all depth settings before reuse.

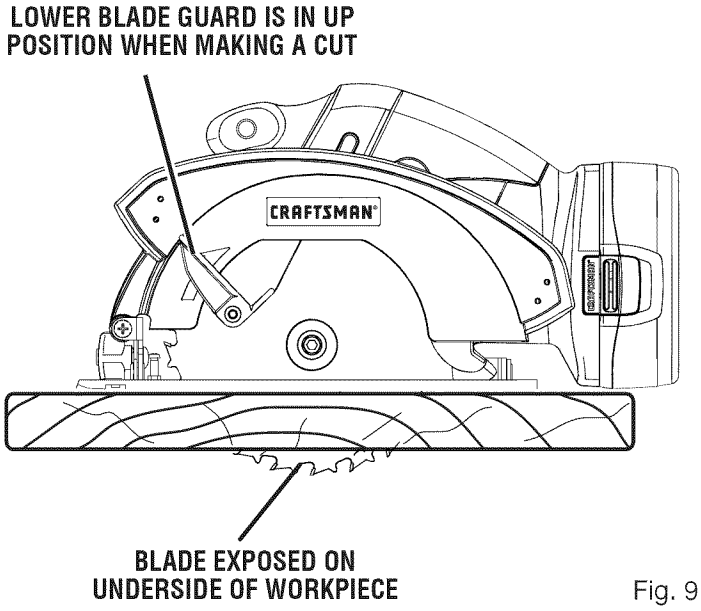


Fig. 9

STARTING/STOPPING THE SAW

See Figure 10.

To start the saw: While depressing the lock-off button, depress the switch trigger.

Always let the blade reach full speed, then guide the saw into the workpiece.

WARNING: The blade coming in contact with the workpiece before it reaches full speed could cause the saw to "kickback" toward you, resulting in serious injury.

To stop the saw: Release the switch trigger.

After you release the switch trigger, allow the blade to come to a complete stop. **Do not remove the saw from the workpiece while the blade is moving.**

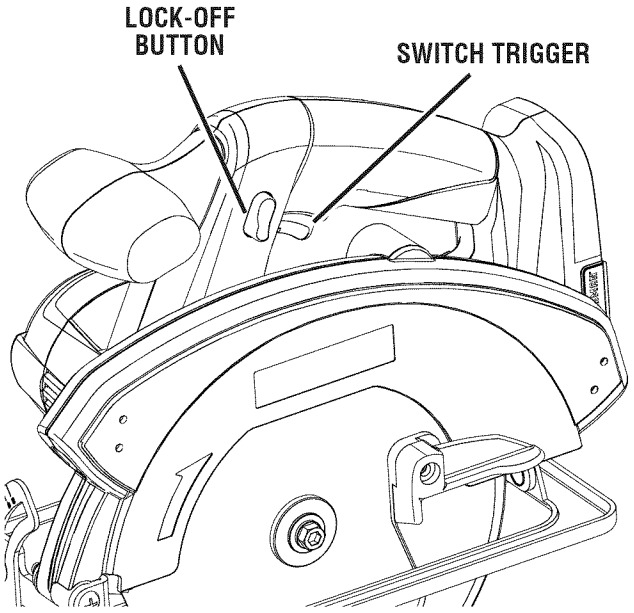


Fig. 10

LOCK-OFF BUTTON

See Figure 10.

The lock-off button reduces the possibility of accidental starting. The lock-off button is located on the handle above the switch trigger. The lock-off button must be depressed before you depress the switch trigger. The lock resets each time the trigger is released.

NOTE: You can depress the lock-off button from either side.

OPERATION

WARNING: Always remove the battery pack from the tool when changing operation settings or when the tool is not in use. Failure to remove the battery pack may result in accidental starting and serious personal injury.

SETTING THE BLADE DEPTH

See Figure 11.

Always keep the correct blade depth setting. The correct blade depth setting for all cuts should not exceed 1/4 in. below the material being cut. More blade depth will increase the chance of kickback and cause the cut to be rough. For more depth of cut accuracy, a scale is located on the upper blade guard.

- Remove the battery pack from the saw.
- Loosen the depth adjustment knob.
- Determine the desired depth of cut.
- Locate the depth of cut scale on the back of the upper blade guard.
- Hold the base flat against the workpiece and raise or lower the saw until the indicator mark on the bracket aligns with the desired scale measurement on the blade guard.
- Tighten the depth adjustment knob securely.

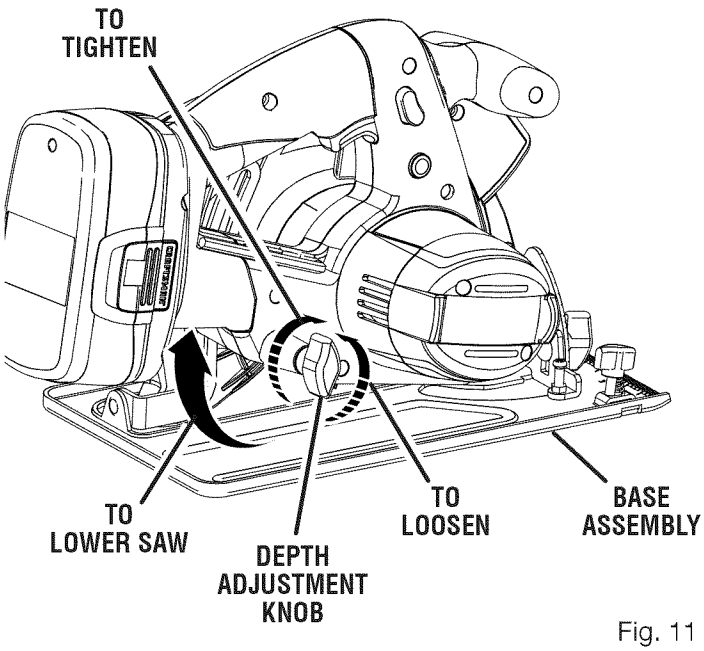


Fig. 11

OPERATION

USING THE LASER GUIDES

See Figures 12 - 13.

WARNING: Do not stare into the laser beams or turn the lasers on when the tool is not in use. Failure to heed this warning could result in possible serious personal injury.

The laser guides will generate a red colored laser beam on the work surface in front of and behind the saw when turned on. The front laser aids in following the line of cut when cutting the workpiece. The rear laser aids in aligning pocket cuts and following the kerf when exiting the workpiece.

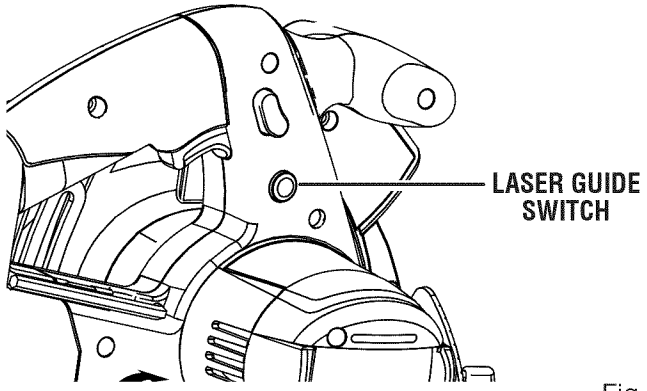


Fig. 12

NOTE: The laser units come from the factory already installed and aligned. If the lasers become misaligned after time, refer to the "Adjustments" section later in this manual.

NOTE: Make a trial cut on a piece of scrap material to ensure laser is aligned; adjusting the laser may be necessary.

- Mark the line to be cut on the workpiece.
- Adjust the depth and angle of the cut as needed.
- Insert battery pack into saw and press the laser guide button to activate the laser.
- Start the motor.

  NOTE: Do not touch the blade to the workpiece until the saw has reached maximum speed.
- Slowly push the saw forward into the workpiece.

  NOTE: Keep the laser beam on the marked line on the workpiece for precision cutting.
- Once the cut is complete, allow the saw to come to a complete stop before turning off the laser.
- Remove battery pack from saw.

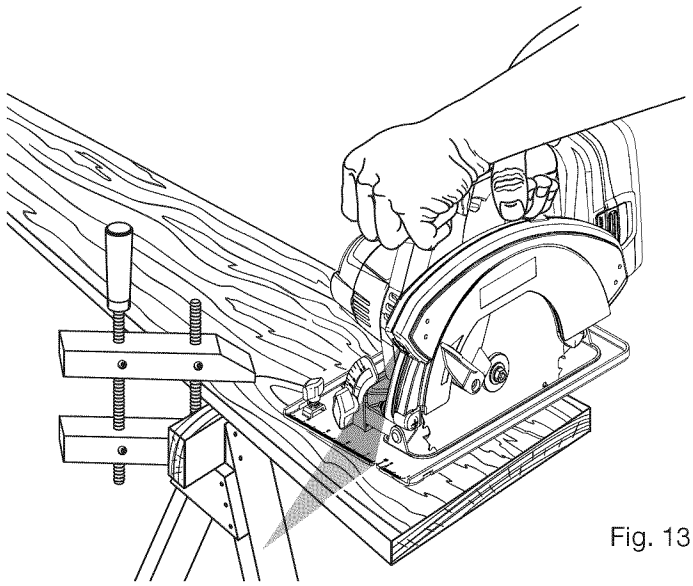


Fig. 13

OPERATION

OPERATING THE SAW

See Figures 14 - 16.

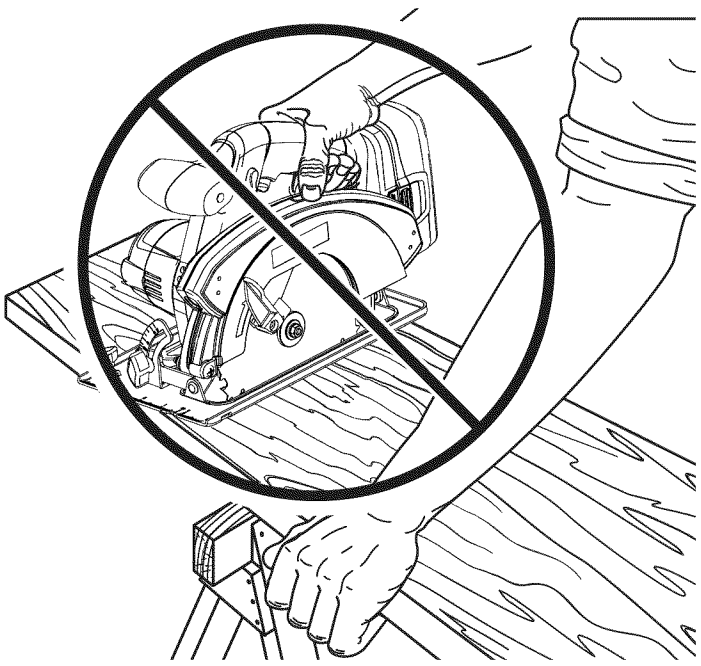
Refer to the figures in this section to learn the correct and incorrect ways for handling the saw.

DANGER: When lifting the saw from the workpiece, the blade is exposed on the underside of the saw until the lower blade guard closes. Make sure the lower blade guard is closed before setting the saw down.

WARNING: To make sawing easier and safer, always maintain proper control of the saw. Loss of control could cause an accident resulting in possible serious injury.

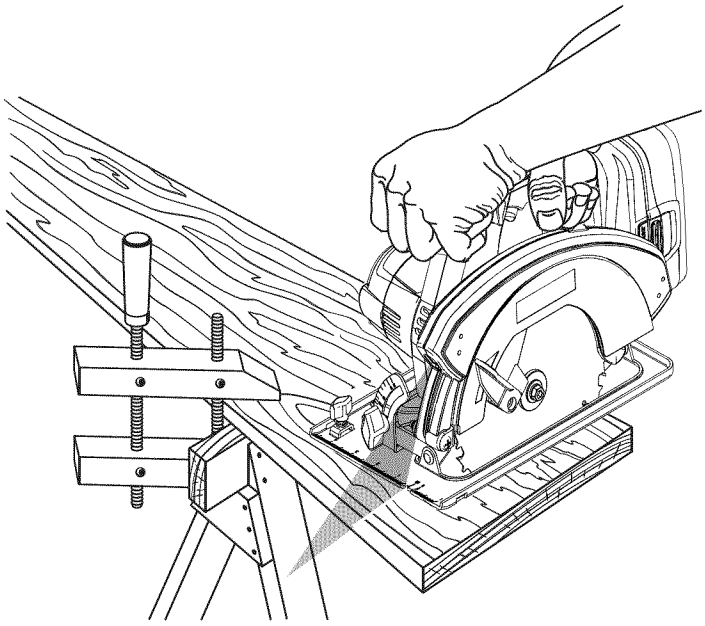
To make the best possible cut, follow these helpful hints.

- Hold the saw firmly with both hands.
- Avoid placing your hand on the workpiece while making a cut.
- Support the workpiece so that the cut (kerf) is always to your side.
- Support the workpiece near the cut.
- Clamp the workpiece securely so that the workpiece will not move during the cut.
- Always place the saw on the workpiece that is supported, not the "cut off" piece.
- Place the workpiece with the "good" side down.
- Draw a guideline along the desired line of cut before beginning your cut.



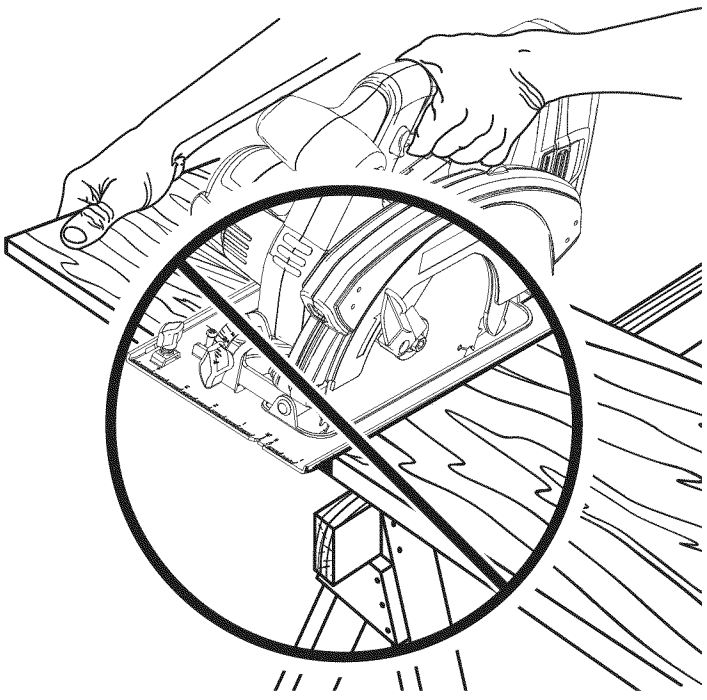
WRONG

Fig. 14



RIGHT

Fig. 15



WRONG

Fig. 16

CROSS CUTTING/RIP CUTTING

See Figure 17.

NOTE: Refer to **Using the Laser Guides** earlier in this manual.

When making a cross cut or rip cut, align the line of cut with the outer blade guide notch on the base as shown in the figure.

Since blade thicknesses vary, always make a trial cut in scrap material along a guideline to determine how much, if any, you must offset the guideline to produce an accurate cut.

NOTE: The distance from the line of cut to the guideline is the amount you should offset the guide.

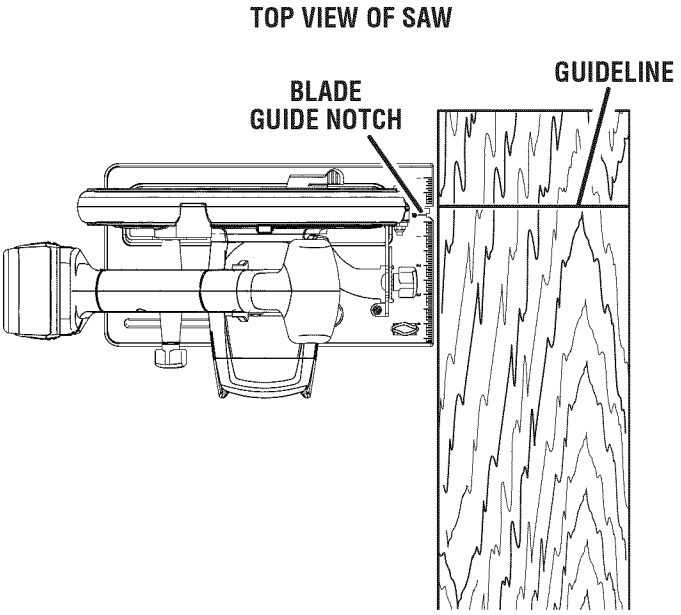


Fig. 17

TO RIP CUT WITHOUT EDGE GUIDE

See Figure 18.

Use a guide when making long or wide rip cuts with the saw.

- Secure the workpiece.
- Clamp a straight edge to the workpiece using C-clamps.

  NOTE: C-Clamp both ends of the straight edge before making a cut.
- Saw along the straight edge to achieve a straight rip cut.

  NOTE: Do not bind the blade in the cut.

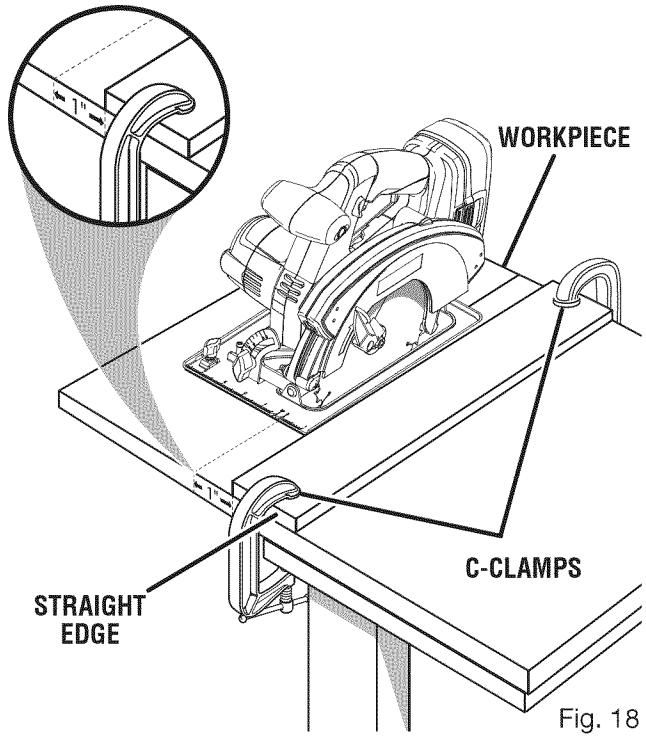


Fig. 18

TO RIP CUT WITH EDGE GUIDE

See Figure 19.

- Secure the workpiece.
- Position the face of the edge guide firmly against the edge of workpiece.
- Guide the saw along the edge to achieve a straight rip cut.

  NOTE: The guiding edge of the workpiece must be straight for your cut to be straight. Use caution to prevent the blade from binding in the cut.

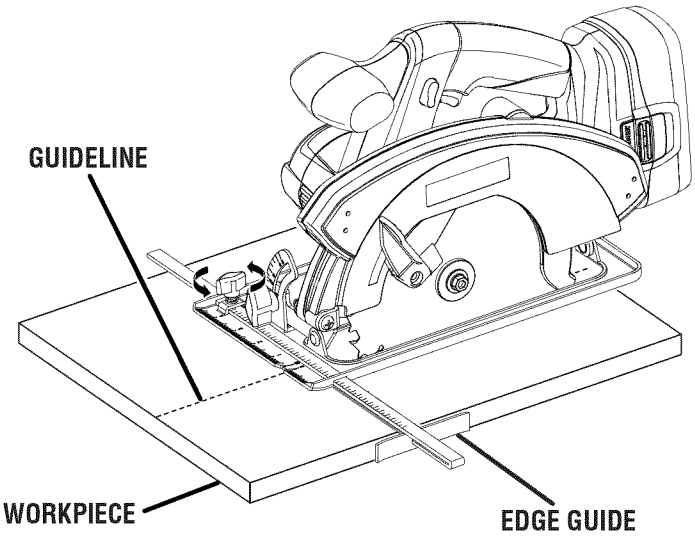


Fig. 19

OPERATION

BEVEL CUTTING

See Figures 20 - 22.

NOTE: Refer to **Using the Laser Guide** for the following applications.

To make the best possible cut, follow these helpful hints.

- Align the line of cut with the inner blade guide notch on the base when making 45° bevel cuts.
- Make a trial cut in scrap material along a guideline to determine how much you should offset the guideline on the cutting material.
- Adjust the angle of the cut to any desired setting between zero and 50°.

NOTE: When making bevel cuts, you may need to re-adjust the laser. Refer to **Adjusting the Laser** later in this manual.

TO ADJUST BEVEL SETTING

See Figure 21.

- Remove battery pack from the saw.
- Loosen bevel adjustment knob.
- Raise motor housing end of saw until you reach desired angle setting on bevel scale.
- Tighten bevel adjustment knob securely.

⚠ **WARNING:** Attempting a bevel cut without having the bevel adjustment knob securely tightened can result in serious injury.

TO BEVEL CUT

See Figure 22.

- Hold the saw firmly with both hands as shown.
- Rest the front edge of the base on the workpiece.
- Start the saw and let the blade reach full speed.
- Guide the saw into the workpiece and make the cut.
- Release the trigger and allow the blade to come to a complete stop.
- Lift the saw from the workpiece.

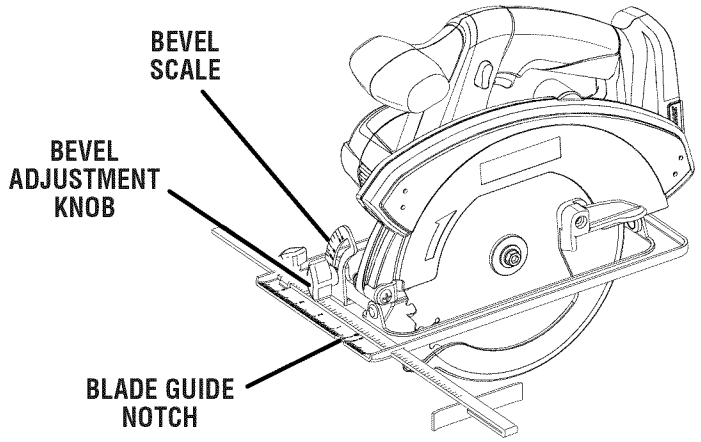
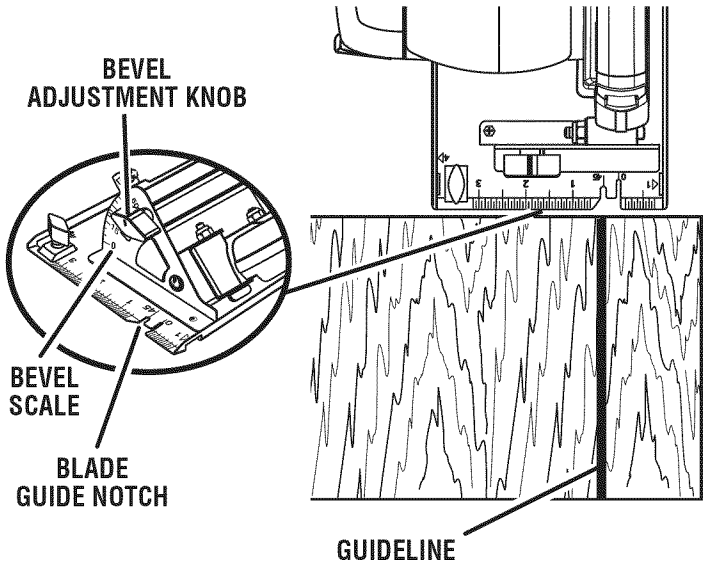


Fig. 20



ALIGN INNER BLADE GUIDE NOTCH ON SAW BASE WITH LINE OF CUT AS SHOWN WHEN MAKING 45° BEVEL CUTS

Fig. 21

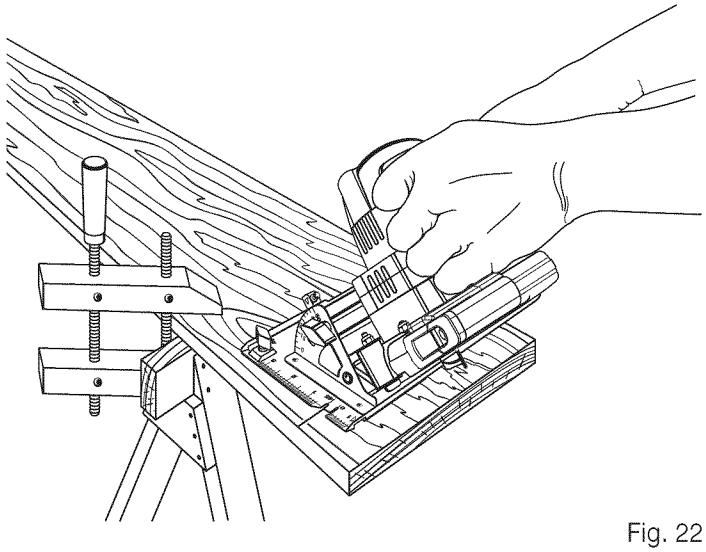


Fig. 22

POSITIVE 0° BEVEL STOP

See Figure 23.

The saw has a positive 0° bevel stop that has been factory adjusted to assure 0° angle of the saw blade when making 90° cuts.

TO CHECK POSITIVE 0° BEVEL STOP

- Remove the battery pack from the saw.
- Place the saw in an upside down position on a workbench.
- Check the squareness of the saw blade to the base of the saw using a carpenter's square.

TO ADJUST POSITIVE 0° BEVEL STOP

- Remove battery pack from the saw.
- Loosen bevel adjustment knob.
- Turn adjustment screw with a screwdriver and adjust base until it is square with the saw blade.
- Tighten bevel adjustment knob securely.

WARNING: Attempting a bevel cut without having the bevel adjustment knob securely tightened can result in serious injury.

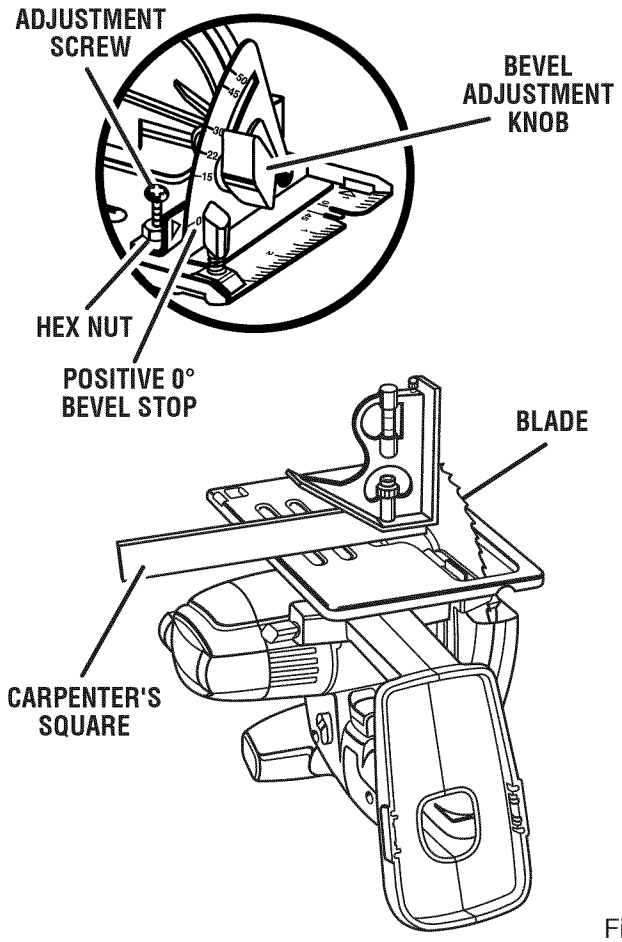


Fig. 23

POCKET CUTTING

See Figure 24.

WARNING: Always adjust bevel setting to zero before making a pocket cut. Attempting a pocket cut at any other setting can result in loss of control of the saw possibly causing serious injury.

NOTE: The rear laser aids in aligning pocket cuts and following the kerf when exiting the workpiece.

- Remove battery pack from saw.
- Adjust the bevel setting to zero.
- Set the blade to the correct blade depth setting.
- Place battery pack in saw.
- Swing the lower blade guard up using the lower blade guard handle.

  NOTE: Always raise the lower blade guard with the handle to avoid serious injury.
- Hold the lower blade guard by the handle.
- Rest the front of the base flat against the workpiece with the rear of the handle raised so the blade does not touch the workpiece.
- Start the saw and let the blade reach full speed.
- Guide the saw into the workpiece and make the cut.

WARNING: Always cut in a forward direction when pocket cutting. Cutting in the reverse direction could cause the saw to climb up on the workpiece and back toward you.

- Release the trigger and allow the blade to come to a complete stop.
- Lift the saw from the workpiece.
- Clear corners out with a hand saw or sabre saw.

WARNING: Never tie the lower blade guard in a raised position. Leaving the blade exposed could lead to serious injury.

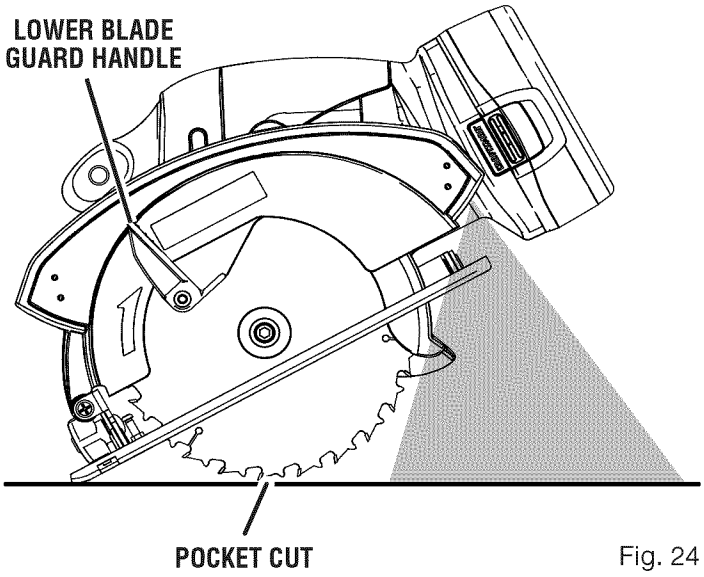


Fig. 24

ADJUSTMENTS

WARNING: Before performing any adjustment, remove blade from saw. Failure to do so could result in possible serious personal injury.

WARNING: DO NOT point the laser at yourself or others. Class IIIa lasers will burn your retinas and could cause serious injury to your eyes.

WARNING: Use of controls or adjustments or performance other than those specified herein could result in hazardous radiation exposure.

ADJUSTING THE LASERS

See Figures 25 - 26.

The laser guides can be realigned by adjusting the screws located in the upper guard. The top screw moves the laser beam laterally from left to right. The bottom screw moves the laser beam in a rotational direction.

NOTE: Draw a pencil line on a scrap workpiece parallel to the long edge of the base as a straight line guide to aid in the adjusting process.

To adjust the front laser:

- Remove the blade.
- Insert battery pack into the saw.
- Turn laser on.
- Rest the front of the base on scrap workpiece.
- Adjust screw as necessary.
- Since blade thicknesses vary, always make a trial cut in scrap workpiece to ensure an accurate cut.
- Check for proper alignment.
- Repeat as necessary until laser is aligned.

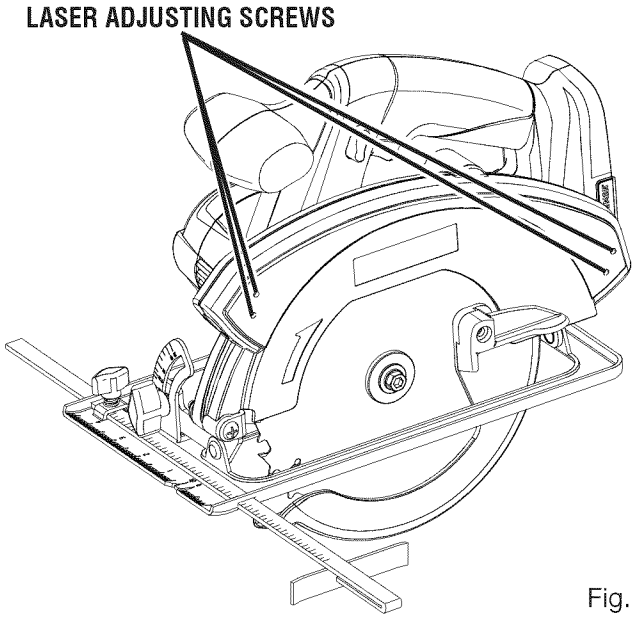


Fig. 25

To adjust the rear laser:

- Remove the blade.
- Insert battery pack into the saw.
- Turn laser on.
- Rest the back of the base on scrap workpiece.
- Adjust screw as necessary.
- Since blade thicknesses vary, always make a trial cut in scrap workpiece to ensure an accurate cut.
- Check for proper alignment.
- Repeat as necessary until laser is aligned.

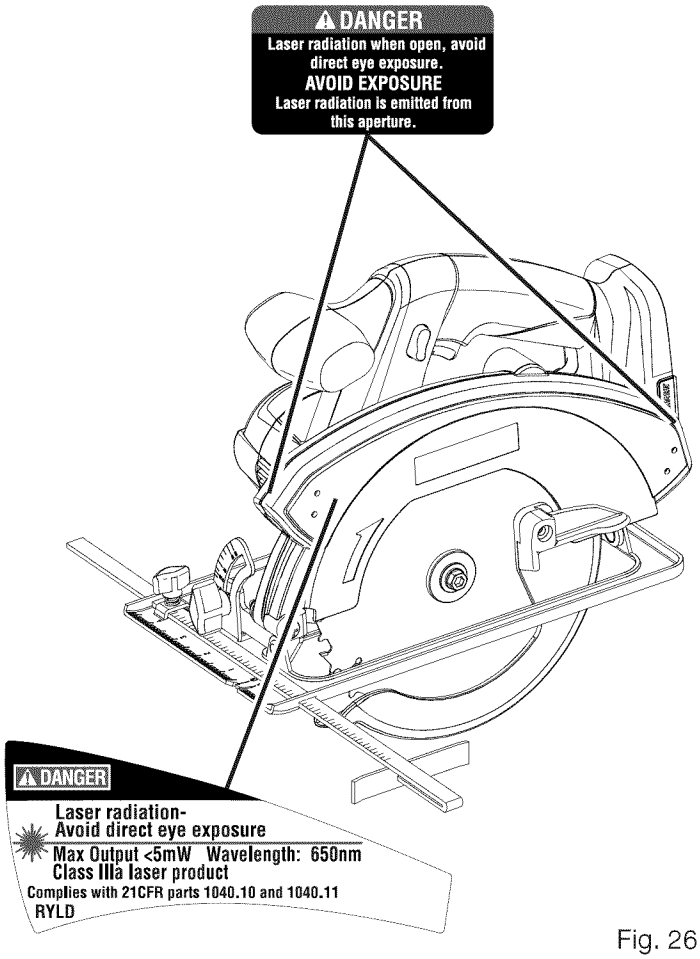


Fig. 26

MAINTENANCE

WARNING: When servicing, use only identical Craftsman replacement parts. Use of any other part may create a hazard or cause product damage.

WARNING: Always wear safety goggles or safety glasses with side shields when using compressed air to clean tools. If the operation is dusty, also wear a dust mask.

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

GENERAL MAINTENANCE

Avoid using solvents when cleaning plastic parts. Most plastics are susceptible to damage from various types of 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 let brake fluids, gasoline, petroleum-based products, penetrating oils, etc. come in contact with plastic parts. Chemicals can damage, weaken or destroy plastic which may result in serious personal injury.

Only the parts shown on the parts list are intended to be repaired or replaced by the customer. All other parts should be replaced at a Sears Service Center.

BATTERIES

This product will accept DieHard® 19.2 V lithium-ion battery packs and Craftsman 19.2 V nickel-cadmium battery packs.

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

To obtain the longest possible battery life, we suggest the following:

For lithium-ion batteries:

- Remove the battery pack from the charger once it is fully charged and ready for use.

For battery pack storage longer than 30 days:

- Store the battery pack where the temperature is below 80°F and away from moisture.
- Store battery packs in a 30%-50% charged condition.
- Every six months of storage, charge the pack as normal.

For nickel-cadmium batteries:

- Remove the battery pack from the charger once it is fully charged and ready for use.

For battery pack storage longer than 30 days:

- Store the battery pack where the temperature is below 80°F.
- Store battery packs in a "discharged" condition.

BATTERY PACK REMOVAL AND PREPARATION FOR RECYCLING

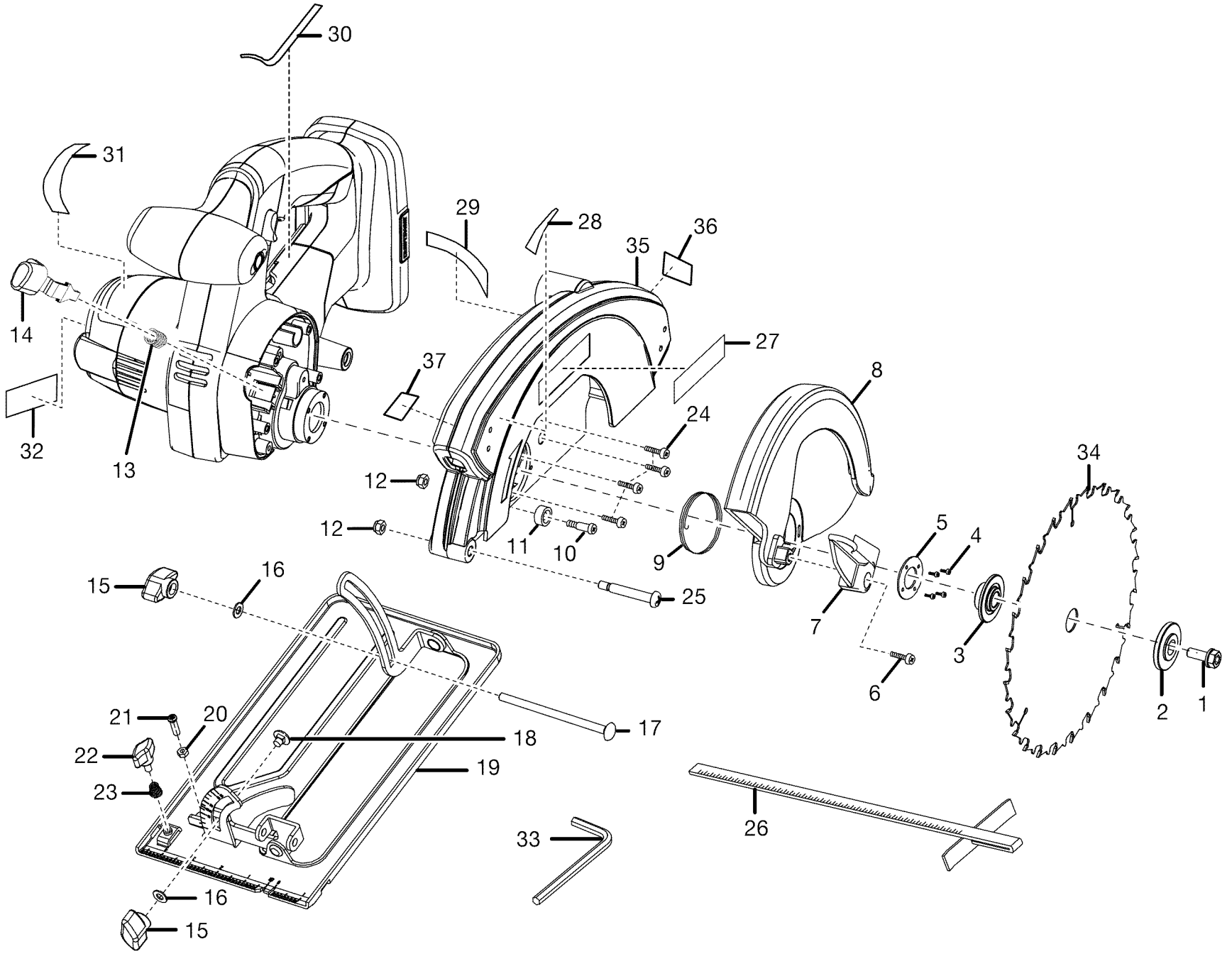
To preserve natural resources, please recycle or dispose of batteries properly.

This product uses nickel-cadmium and lithium-ion batteries. Local, state or federal laws may prohibit disposal of 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 battery pack or remove any of its components. Lithium-ion and nickel-cadmium batteries must be recycled or disposed of properly. Also, never touch both terminals with metal objects and/or body parts as short circuit may result. Keep away from children. Failure to comply with these warnings could result in fire and/or serious injury.

CRAFTSMAN CIRCULAR SAW – MODEL NUMBER 315.115850



CRAFTSMAN CIRCULAR SAW MODEL NUMBER 315.115850

The model number will be found on a plate attached to the motor housing. Always mention the model number in all correspondence regarding your **CIRCULAR SAW** or when ordering repair parts.

PARTS LIST

Key No.	Part Number		Description	Qty.
1	660803001	*	Screw (M6 x 16 mm)	1
2	610121002		Outer Blade Washer	1
3	610120003		Inner Blade Washer	1
4	660211012	*	Screw (M3 x 8 mm)	4
5	680503002		Cover Plate	1
6	660151001	*	Screw (M5 x 10 mm)	1
7	540091005		Lower Blade Guard Handle	1
8	640981001		Lower Blade Guard	1
9	6867201		Torsion Spring	1
10	660193001	*	Screw (M5 x 20 mm)	1
11	560990001		Rubber Stopper	1
12	6797401	*	Hex Nut (M5)	2
13	670056002		Shaft Lock Spring	1
14	300332023		Spindle Lock Button Assembly	1
15	540510005		Adjustment Knob	2
16	5228001		Washer	2
17	6614301	*	Carriage Bolt (M6 x 100 mm)	1
18	660142001	*	Carriage Bolt (M6 x 12 mm)	1
19	671795002		Base Assembly	1
20	6802201	*	Hex Nut (M4 x 3.2 mm)	1
21	6621204	*	Screw (M4 x 16 mm)	1
22	540511006		Knob Bolt	1
23	680001001		Spring	1
24	6620803	*	Screw (M4 x 22 mm)	4
25	660145004	*	Screw (M5 x 43 mm)	1
26	671901002		Edge Guide	1
27	940213048		Logo Label	1
28	940214116		Laser Data Label	1
29	940800028		Cutting Depth Label	1
30	940241014		Warning Label	1
31	940057083		Data Label	1
32	9427205		Logo Label	1
33	680002004	*	Hex Key (5 mm)	1
34	***		Blade	1
35	300294047		Upper Blade Guard Assembly	1
36	940230081		Laser Warning Label	1
	983000797		Operator's Manual	

*** Standard Hardware Item – May Be Purchased Locally**

***** Can Be Purchased At Most Sears Stores/Sears.com/Parts and Service**