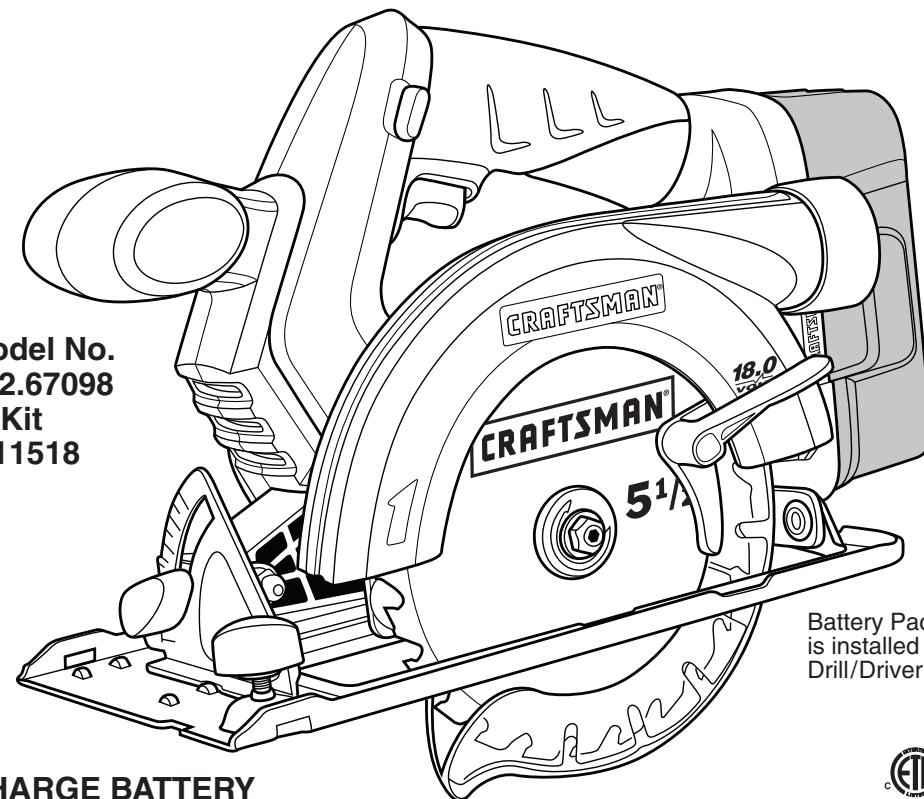


## Operator's Manual

**CRAFTSMAN**<sup>®</sup>

# 18.0 Volt 5<sup>1</sup>/<sub>2</sub>-in. Cordless Circular Saw

Model No.  
172.67098  
In Kit  
9-11518



Battery Pack  
is installed on  
Drill/Driver



### CHARGE BATTERY BEFORE FIRST USE

**⚠ CAUTION** Read, understand and follow  
all Safety Rules and Operating Instructions  
in this Manual before using this product.

Sears, Roebuck and Co.,  
Hoffman Estates, IL 60179 U.S.A.  
Visit our Craftsman website: [www.craftsman.com](http://www.craftsman.com)

- WARRANTY
- SAFETY
- UNPACKING
- DESCRIPTION
- OPERATION
- MAINTENANCE

67098 Final  
2-18-08

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### ONE YEAR FULL WARRANTY ON CRAFTSMAN® PRODUCT

If this Craftsman product fails due to a defect in material or workmanship within one year from the date of purchase, **RETURN IT TO THE NEAREST SEARS STORE OR OTHER CRAFTSMAN OUTLET IN THE UNITED STATES FOR FREE REPLACEMENT.**

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

If this Craftsman product 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

**SAVE THESE INSTRUCTIONS!  
READ ALL INSTRUCTIONS!**

**⚠ 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 instructions in this manual, including all safety alert symbols such as "DANGER", "WARNING" and "CAUTION", BEFORE using this tool. Failure to follow all instructions listed below may result in electric shock, fire and/or serious personal injury.

### SYMBOL MEANING

**⚠ SAFETY ALERT SYMBOL:** Indicates DANGER, WARNING, OR CAUTION. May be used in conjunction with other symbols or pictographs.

**⚠ DANGER** DANGER: Failure to obey this safety warning **WILL** result in death or serious injury to yourself or to others. Always follow the safety precautions to reduce the risk of fire, electric shock and personal injury.

**⚠ WARNING** Failure to obey this safety warning **CAN** result in death or serious injury to yourself or to others. Always follow the safety precautions to reduce the risk of fire, electric shock and personal injury.

**⚠ CAUTION** Failure to obey this safety warning **MAY** result in personal injury to yourself or others or property damage. Always follow the safety precautions to reduce the risk of fire, electric shock and personal injury.

### DAMAGE PREVENTION AND INFORMATION MESSAGES

These inform user of **important information and/or instructions** that could lead to equipment or other property damage if not followed. Each message is preceded by the word "NOTE:" as in the example below:

**NOTE:** Equipment and/or property damage may result if these instructions are not followed.



**⚠ 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 shield and a full-face shield when needed. We recommend a Wide Vision Safety Mask for use over eyeglasses or standard safety glasses with side shield, available at Sears Stores or other Craftsman Outlets.

## SAFETY INSTRUCTIONS

**⚠ WARNING: BE SURE to read and understand all instructions in this manual before using this circular saw. Failure to follow all instructions may result in hazardous radiation exposure, electric shock, fire and/or serious personal injury.**

### WORK AREA SAFETY

1. **Keep your work area clean and well lit.** Cluttered workbenches and dark areas invite accidents.
2. **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.
3. **Keep bystanders, children and visitors away while operating a power tool.** Distractions can cause you to lose control.
4. **Make your workshop childproof** with padlocks and master switches. Lock tools away when not in use.
5. **MAKE SURE the work area has ample lighting** so you can see the work and that there are no obstructions that will interfere with safe operation **BEFORE** using your saw.

### PERSONAL SAFETY

1. **KNOW your cordless saw.** Read the operator's manual carefully. Learn the saw's applications and limitations, as well as the specific potential hazards related to this tool.
2. **STAY ALERT,** watch what you are doing and use common sense when operating a power tool.
3. **DO NOT** use tool while tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
4. **DRESS properly. DO NOT** wear loose clothing or jewelry. Pull back long hair. Keep your hair, clothing, and gloves away from moving parts. Air vents often cover moving parts and should also be avoided. Loose clothing, jewelry or long hair can be caught in moving parts.
5. **AVOID** accidental starting. Be sure switch is in "OFF" position before inserting the battery pack. **DO NOT** carry tools with your finger on the switch. Carrying tools with your finger on the switch or inserting battery pack in tools that have the switch in the "ON" position invites accidents.
6. **REMOVE** adjusting keys or wrenches before turning the tool "ON". A wrench that is left attached to a rotating part of the tool may result in personal injury.
7. **Do not overreach. Keep proper footing and balance at all times.** Proper footing and balance enables better control of the tool in unexpected situations.
8. **ALWAYS SECURE YOUR WORK.** Use clamps or a vise to hold work when practical. It is safer than using your hand and frees both hands to operate tool.

## SAFETY INSTRUCTIONS cont.

### PERSONAL SAFETY cont.

9. **USE SAFETY EQUIPMENT.** Always wear eye protection. Dust mask, non-skid safety shoes, hard hat, or hearing protection must be used for appropriate conditions.
10. **DO NOT USE ON A LADDER or unstable support.** Stable footing on a solid surface enables better control of the tool in unexpected situations.

### TOOL USE AND CARE SAFETY

**⚠ WARNING: BE SURE to read and understand all instructions before operating this tool. Failure to follow all instructions listed below may result in electric shock, fire and/or serious personal injury.**

1. **ALWAYS use clamps or other practical ways to secure and support the workpiece to a stable platform.** Holding the work by hand or against your body is unstable and may lead to loss of control.
2. **DO NOT force the tool. Use the correct tool and blade for your application.** The correct tool and blade will do the job better and safer at the rate for which it is designed.
3. **DO NOT use the tool if switch does not turn it "On" or "Off".** Any tool that cannot be controlled with the switch is dangerous and must be repaired.
4. **Remove the battery pack from the saw before making any adjustments, changing accessories or storing the tool.** Such preventive safety measures reduce the risk of starting the tool accidentally.
5. **NEVER leave the tool running. ALWAYS turn it off. DO NOT** leave the tool until the blade comes to a complete stop.
6. **STORE idle tools out of the reach of children and other untrained persons.** Tools are dangerous in the hands of untrained users.
7. **ALWAYS remove battery pack and store separately when saw is not being used.**
8. **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 the other.** Shorting the battery terminals together may cause sparks, burns, or a fire.
9. **MAINTAIN tools with care. Keep cutting tools sharp and clean.** Properly maintained tools with sharp cutting edges are less likely to bind and are easier to control.
10. **CHECK for misalignment or binding of moving parts, breakage of parts,** and any other condition that may affect the tool's operation. **If damaged,** have the tool serviced before using. Many accidents are caused by poorly maintained tools.
11. **USE ONLY accessories that are recommended for this tool.** Accessories that may be suitable for one tool may become hazardous when used on another tool.
12. **Keep the tool and its handle dry, clean and free from oil and grease. Always use a clean cloth when cleaning. Never use brake fluids, gasoline, petroleum-based products, or any strong solvents to clean your tool.** Following this rule will reduce the risk of loss of control and deterioration of the plastic enclosure of the circular saw.

## SAFETY INSTRUCTIONS cont.

### ELECTRICAL SAFETY

**⚠ WARNING: BE SURE to read and understand all instructions before operating this saw. Failure to follow all instructions listed below may result in electric shock, fire and/or serious personal injury.**

A battery operated tool with integral batteries or a separate battery pack must be recharged only with the specified charging stand/transformer for the battery. A charger that may be suitable for one type of battery may create a risk of fire when used with another battery.

1. Use battery operated saw only with specifically designated battery packs. Use of any other batteries may create a risk of fire.
2. Use battery packs only with charging stand/transformers listed.

Kit No. 9-11518 18.0 Volt Model No.		
SAW	CHARGING STAND/TRANSFORMER	BATTERY PACK
172.67098	CDT218GU-103/BHY41-23.5V-200mA	CDT218GU-104(ABP318GU)
	Can also use 1426101 and 140295004	Can also use 1323509, 1323520, 130260001, 130139020 and 130139021

3. Do not abuse the cord on the charging stand. Never carry the charging stand/transformer by its power cord. Never pull the power cord to remove the transformer from the power outlet. Damage to the cord or charging stand/transformer could occur and create an electric shock hazard. Keep cord away from heat, oil, sharp edges or moving parts. Replace damaged cords immediately. Damaged cords increase the risk of electric shock.

### SAFETY SYMBOLS FOR YOUR TOOL

The label on your tool may include the following symbols.

V.....	Volts
A.....	Amps
Hz.....	Hertz
W.....	Watts
~.....	Alternating current
—.....	Direct current
n <sub>0</sub> .....	No-load speed
□.....	Class II construction, Double Insulated
RPM.....	Revolutions per minute
SPM.....	Strokes per minute
OPM.....	Orbits per minute
⚠.....	Indicates danger, warning or caution. It means attention! Your safety is involved.

### SERVICE SAFETY

1. If any part of this cordless saw is missing or should break, bend, or fail in any way; or should any component fail to perform properly: have the missing, damaged or failed parts replaced **BEFORE** resuming operation.

## SAFETY INSTRUCTIONS cont.

### SERVICE SAFETY cont.

2. Tool service must be performed only at a Sears Parts and Repair Center. Service or maintenance performed by unqualified personnel could result in a risk of injury.
3. When servicing a 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 electric shock or injury.

### SAFETY RULES FOR CORDLESS CIRCULAR SAWS

**⚠ DANGER:** Keep hands away from cutting area and blade. Keep your second hand on the auxiliary handle or motor housing. If both hands are holding the saw, the blade cannot cut them.

**⚠ CAUTION:** Blades coast after saw is switched off.

1. KEEP your body positioned to either side of the saw blade and not in direct line with the saw blade. Kickback could cause the saw to jump backwards. (See "Kickback...What Causes It and Ways to Prevent It" on pages 18 and 19).
2. DO NOT reach underneath the work. The guard cannot protect you from the blade beneath the workpiece.

**⚠ DANGER:** When sawing through a workpiece, the lower blade guard DOES NOT cover the blade on the underside of the workpiece (Pg. 16 Fig. 4). ALWAYS keep your hands and fingers away from the cutting area.

3. CHECK lower guard for proper closing BEFORE each use. DO NOT operate the saw if the lower guard does not move freely and close instantly. Never clamp or tie the lower guard in the open position. If the saw is accidentally dropped, the lower guard may be bent. Raise the lower guard with the retracting lever. The guard is operating properly when it moves freely, does not touch the blade or any other part in all angles and depths of cut, and readily returns to the closed position.
4. CHECK the operation and condition of the lower guard spring. If the guard and the spring are not operating properly, they MUST BE serviced before use. The lower guard may operate sluggishly, due to damaged parts, gummy deposits, or a buildup of debris. DO NOT operate your saw until the damage has been repaired or replaced.
5. The lower guard should be retracted manually ONLY for making special cuts, such as pocket or compound cuts. ALWAYS raise the lower guard by retracting its lever. As soon as the blade enters the material, the lower guard MUST be released. For all other sawing, the lower guard should operate automatically.
6. ALWAYS make sure that the lower guard is covering the blade BEFORE placing the saw down on a work bench or floor. An unprotected moving blade will cause the saw to walk backwards, cutting whatever is in its path. Make note of the time it takes for the blade to stop spinning after the switch is released.
7. NEVER hold the piece being cut in your hands or across your legs. It is important to support the workpiece properly in order to minimize body exposure, blade binding, or loss of control.

## SAFETY INSTRUCTIONS cont.

### SAFETY RULES FOR CORDLESS CIRCULAR SAWS cont.

8. **HOLD TOOL** by insulated gripping surfaces (handles) when performing an operation where the cutting tool may contact hidden wiring. Contact with a "live" wire will make the exposed metal parts of the tool "live" and shock the operator.
9. **ALWAYS clamp the workpiece** securely so it will not move when making the cut.
10. **When ripping, ALWAYS USE a rip fence or straight edge guide.** This improves the accuracy of the cut and reduces the chance of the blade binding.
11. **ALWAYS USE blades that have the correct size and shape (diamond vs. round) arbor holes.** Blades that do not match the mounting hardware of the saw will run erratically and cause loss of control.
12. **NEVER use damaged or incorrect blade washers or bolts.** The blade washers and bolts were specially designed for your saw, for optimum performance and safety of operation.
13. **NEVER cut more than one piece at a time. DO NOT STACK more than one workpiece on the worktable at a time.**
14. **AVOID awkward operations and hand positions where a sudden slip could cause your hand to move into the blade.**
15. **NEVER reach into the cutting path of the blade.**
16. **ONLY USE the specifically listed battery pack and charging stand listed on page 6 of this manual. Use of any other battery pack or charging stand/transformer can create risk of injury and fire.**
17. **Cordless 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 operated tool or when changing accessories.** Following this rule will reduce the risk of electric shock, fire, or serious personal injury.
18. **Do not place battery tools or their batteries near fire or heat.** This will reduce the risk of explosion and possible injury.
19. **Do not crush, drop or damage battery pack. Never use a battery pack or charging stand/transformer that has been dropped or received a sharp blow.** A damaged battery pack is subject to explosion. Properly dispose of a dropped or damaged battery pack immediately.
20. **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 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.
21. **Do not charge battery in a damp or wet location.** Following this rule will reduce the risk of electric shock.
22. For best results, your battery should be charged in a location where the temperature is more than 50°F but less than 80°F. Do not store battery outside or in vehicles.

## SAFETY INSTRUCTIONS cont.

### SAFETY RULES FOR CORDLESS CIRCULAR SAWS cont.

23. **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.
24. **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.

### SAFETY RULES FOR BATTERY CHARGING STAND/TRANSFORMER

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

**NOTE:** Before using battery charging stand / transformer, read all instructions and cautionary markings in this manual, on battery charging stand / transformer, battery pack, and circular saw using battery pack to prevent misuse of the products and possible injury or damage.

**⚠ CAUTION: USE ONLY the specifically designated battery charging stand / transformer that was supplied with this circular saw when charging the battery pack.** The use of any other battery charging stand / transformer could damage the battery pack, and create a hazardous condition. See page 6.

**⚠ CAUTION: To reduce the risk of electric shock or damage to the battery charging stand / transformer and battery pack, charge only the specifically designated battery pack that was included with this circular saw and charging stand / transformer.** Charging other types of battery packs may cause them to burst, causing personal injury and damage.

1. **Do not use the battery charging stand / transformer outdoors or expose to wet or damp conditions.** Water entering charging stand will increase the risk of electric shock.
2. **Use of an attachment with this battery charging stand / transformer that is not recommended may result in a risk of fire, electric shock, or injury to persons.**

## SAFETY INSTRUCTIONS cont.

### SAFETY RULES FOR BATTERY CHARGING STAND/TRANSFORMER cont.

3. **Do not abuse the cord on the battery charging stand / transformer.** Never carry the charging stand / transformer by its power cord. Never pull the power cord to remove the transformer from the power outlet. Damage to the cord or charging stand / transformer could occur and create an electric shock hazard. Keep cord away from heat, oil, sharp edges or moving parts. Replace damaged cords immediately. Damaged cords increase the risk of electric shock.
4. **Make sure cord is located so that it will not be stepped on, tripped over, come in contact with sharp edges or moving parts, heat, oil, 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.
5. **Keep cord and charging stand / transformer away from heat to prevent damage to housing or internal parts.**
6. **Do not let gasoline, oils, petroleum-based products, etc. come in contact with plastic parts.** They contain chemicals which can damage, weaken or destroy plastic.
7. **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: **a)** That pins on plug of extension cord are the same number, size and shape as those on the transformer, **b)** That extension cord is properly wired and in good electrical condition, and **c)** That you **use a proper extension cord.** ONLY use cords listed by Underwriters Laboratories (UL). Other extension cords can cause a drop in line voltage, resulting in a loss of power and overheating of charging stand/transformer. An AWG (American Wire Gauge) size of at least 14-gauge is recommended for an extension cord of 25-ft. or less in length. Use 12-gauge for an extension cord of 50-ft. **Extension cords 100-ft. or longer are not recommended.**
8. **INSPECT tool cords for damage. Do not operate charging stand with a damaged cord or transformer, which could cause shorting and electric shock.** Have damaged tool cords repaired at a Sears Service Center.
9. **Do not operate charging stand / transformer if it has received a sharp blow, been dropped, or otherwise damaged in any way.** Take it to an authorized serviceman for electrical check to determine if the charging stand / transformer is in good working order.
10. **Do not disassemble charging stand / transformer. Take it to a Sears Parts and Repair Center when service or repair is required.** Incorrect reassembly may result in a risk of electric shock or fire.
11. **Disconnect charging stand/transformer from the power supply when not in use.** This will reduce the risk of electric shock or damage if metal items should fall into the opening in the charging stand. It also will help prevent damage during a power surge.
12. **Risk of electric shock. Do not touch un-insulated portion of output connector or un-insulated battery terminal.**
13. **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 to prevent misuse of the product and possible injury.

## SAFETY INSTRUCTIONS cont.

**⚠ 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. 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.

**⚠ WARNING:** Use of this tool can generate and/or disburse dust, which may cause serious and permanent respiratory or other injury. Always use NIOSH/OSHA approved respiratory protection appropriate for the dust exposure. Direct particles away from face and body.

### ADDITIONAL RULES FOR SAFE OPERATION

**⚠ WARNING:** BE SURE to read and understand all instructions. Failure to follow all instructions listed may result in electric shock, fire and/or serious personal injury.

1. **Know your power tool. Read operator's manual carefully.** Learn the 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.
2. **ALWAYS wear safety glasses or eye shields when using this tool.** Everyday eyeglasses have only impact-resistant lenses; they are **NOT** safety glasses.
3. **PROTECT your lungs.** Wear a face mask or dust mask if the operation is dusty.
4. **PROTECT your hearing.** Wear appropriate personal hearing protection during use. Under some conditions noise from this product may contribute to hearing loss.
5. **ALL VISTORS AND BYSTANDERS MUST** wear the same safety equipment that the operator of the tool wears.
6. **ALWAYS check the tool for damaged parts.** Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine if it will operate properly and perform its intended function. Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tool's operation. A guard or other part that is damaged should be properly repaired or replaced at a Sears Service center.
7. **SAVE THESE INSTRUCTIONS.** Refer to them frequently and use them to instruct others who may use this tool. If someone borrows this tool, make sure they have these instructions also.

## GLOSSARY OF TERMS FOR WOODWORKING

### Spindle

The shaft on which a blade or cutting tool is mounted. Also called the Arbor.

### Revolutions Per Minute (RPM)

The number of turns completed by a spinning object in one minute.

### Saw Blade Path

The area over, under, behind or in front of the blade, as it applies to the workpiece. That area which will be or has been cut by the blade.

### Set

The distance that the saw blade tooth is bent (or set) outward from the face of the blade.

### Miter Cut

A cutting operation made with the blade at any angle other than 90° to the fence.

### Compound Miter Cut

A compound miter cut is a cut made using a miter angle and a bevel angle at the same time.

### Cross cut

A cutting or shaping operation made against the grain of the workpiece.

### Bevel Cut

A cutting operation made with the blade at any angle other than 90° to the miter table.

### Dado Cut

A non-through cut which produces a square-sided notch or trough in the workpiece (requires special blade).

### Chamfer Cut

A cut removing a wedge from a block of wood so the end (or part of the end) is angled at other than 90°.

### Ripping or Rip Cut

A cutting operation along the length of the workpiece.

### Freehand Cut

Performing a cut without using a fence, miter gauge, fixture, work clamp, or other proper device to keep the workpiece from twisting or moving during the cut.

### Through Sawing

Any cutting operation where the blade extends completely through the thickness of the workpiece.

### Non-Through Cuts

Any cutting operation where the blade does not extend completely through the thickness of the workpiece, like a dado cut.

### Leading Edge

The edge of the workpiece pushed into tool first.

### Kerf

The material removed by the blade in a through cut or the slot produced by the blade in a non-through or partial cut.

### Kickback

A hazard that can occur when the blade binds or stalls, throwing the workpiece back toward operator.

### Workpiece or Material

The item on which the cutting operation is being done. The surfaces of a workpiece are commonly referred to as faces, ends and edges.

## GLOSSARY OF TERMS FOR WOODWORKING cont.

### Gum

A sticky, sap-based residue from wood products.

### Resin

A sticky, sap-based substance that has hardened.

## UNPACKING

Your circular saw has been shipped completely assembled.

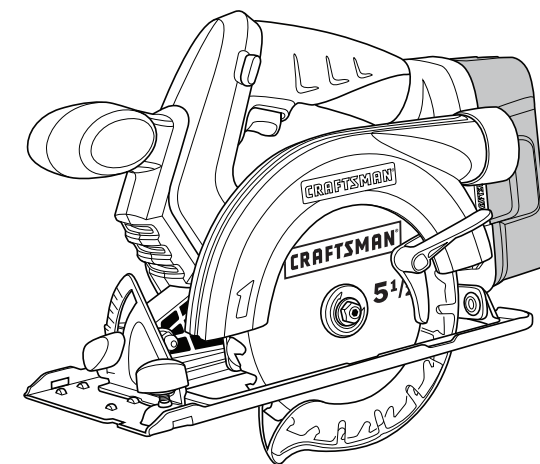
1. Remove the **Saw** from the **Carton and Storage/Carry Bag** and inspect carefully to make sure that no breakage or damage has occurred during shipping.
2. The saw's **cutting blade** is installed at the factory.
3. **Make sure that all items listed in the packing list are included.**
4. Do not discard any of the packing materials until all parts are accounted for.
5. Included with the circular saw; **hex key**.
6. If any of the parts are damaged or missing (refer to PARTS LIST below), return the saw to your nearest Sears store or Craftsman outlet to have the tool replaced.

### PARTS LIST (Fig. 1)

Charging Stand/Transformer,  
Battery Pack and  
Storage/Carrying Bag are Shown  
in the Drill/Driver Manual,  
Model 172.64120



Hex Key Blade Wrench  
(installed on Saw)



Circular Saw with Blade installed,  
(Battery Pack installed on Drill/Driver)

### Operator's Manual

**WARNING:** If any parts are missing do not operate this tool until the missing parts are replaced. Failure to do so could result in possible serious personal injury.

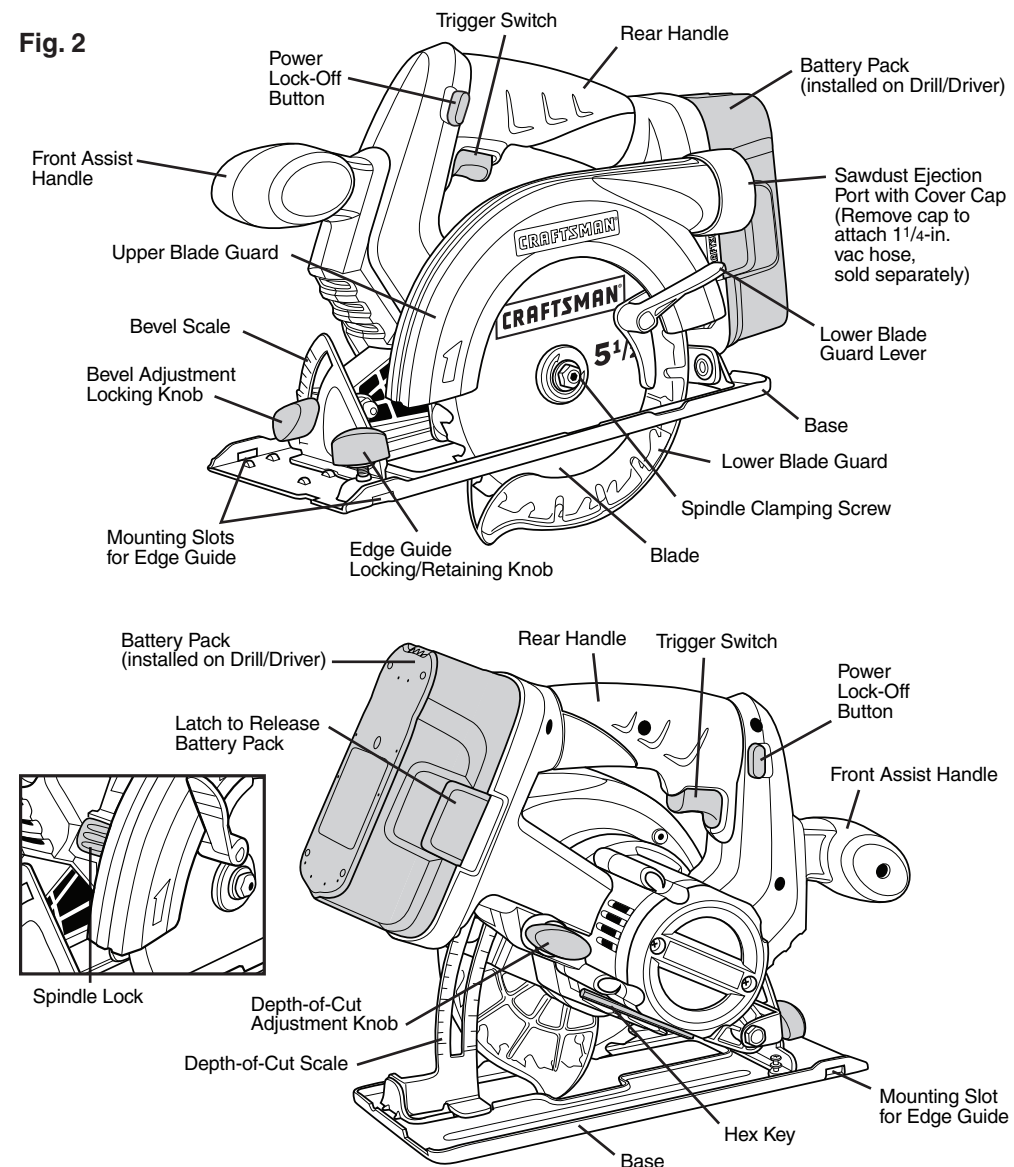
**WARNING:** Do not attempt to modify this tool or create accessories not recommended for use with this tool. Any such alteration or modification is misuse and could result in a hazardous condition leading to possible serious personal injury.

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

## DESCRIPTION

### KNOW YOUR CORDLESS CIRCULAR SAW (Fig. 2)

**NOTE:** Before attempting to use this product, familiarize yourself with all operating features and safety rules.



Safety, performance and dependability have been given top priority in the design of this product, making it easy to maintain and operate.

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## DESCRIPTION cont.

This Cordless Circular Saw has the following features:

1. **3400 RPM** no-load speed provides power and torque for fast, sure cuts in wood, plywood, hardboard and wood-base materials.
2. **Quick depth-of-cut adjustments with a maximum depth of cut:** 1<sup>3</sup>/<sub>16</sub>-inch at 45°; 1<sup>5</sup>/<sub>8</sub>-inch at 90°
3. Easy-to-read **bevel cut scale** adjusts from 0° to 50° bevel capacity.
4. Aluminum **Upper Guard** and plastic **Lower Guard** for extra strength and durability.
5. **Electric Brake** stops blade rotation instantly when trigger is released.
6. **Trigger Switch with Power Lock-Off Button** helps protect against accidental starts.
7. **Oversized stamped Steel Base** provides stability, glides smoothly for maximum control during sawing applications.
8. **Soft-Grip Ergonomically Designed Contoured Rear Handle and Front Assist Handle** for positive gripping, control, balance and comfort.
9. **Includes Craftsman® 24 Tooth Carbide-Tipped Steel General Purpose Blade** for fast, smooth cuts.
10. **Top Mounted Blade Spindle Lock** for easy blade changes.
11. **Built-In Sawdust Ejection Chute with Cover Cap.** Remove cap to eject sawdust to the rear of saw or leave cap attached to eject sawdust downwards, from the blade guards. **Remove cap to attach 1<sup>1</sup>/<sub>4</sub>-in vac hose, sold separately (see page 27).**
12. **Permanently Lubricated 100% Ball Bearings** for smooth operation and long life.
13. **Heavy-duty Machined Gearing** for efficient power transmission.
14. **Durable impact-resistant housing** helps protect tool from damage and reduces weight.
15. **The Nickel-Cadmium battery pack recharges in 3 to 6 hours** under normal use, and LED light on charger indicates when battery is charging.

## PRODUCT SPECIFICATIONS

Motor	18.0 Volt DC
No-load Speed	3400 RPM
Blade Diameter	5 <sup>1</sup> / <sub>2</sub> -in.
Blade Arbor	5/8-in.
Cutting Depth at 45°	1 <sup>3</sup> / <sub>16</sub> -in.
Cutting Depth at 90°	1 <sup>5</sup> / <sub>8</sub> -in.
Maximum Bevel Angle	50°
Charger Input	120V, 60Hz AC
Charge Rate	3 to 6 Hours

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## OPERATION

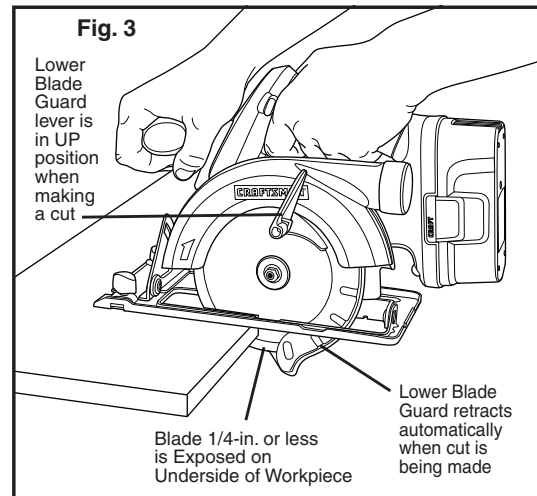
**⚠ WARNING:** A 5 1/2-inch blade is the maximum blade capacity of your saw. A larger than 5 1/2-inch blade will come in contact with the blade guards. Also, NEVER use a blade that is so thick that it prevents the outer blade washer from engaging with the flat side of the spindle. Blades that are too large or too thick can result in an accident causing serious injury.

### SAW BLADES

All saw blades need to be kept clean, sharp and properly set in order to cut efficiently. Using a dull blade places a heavy load on the saw and increases the danger of kickback. Keep extra blades on hand, so sharp blades are always available. Gum and wood pitch hardened on the blade slows the saw down. Use gum and pitch remover, hot water or kerosene to remove them. **DO NOT** use gasoline.

### BLADE GUARD SYSTEM (Fig. 3)

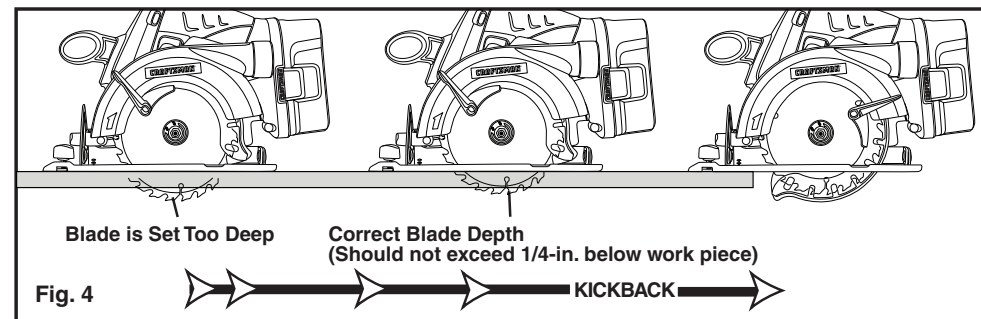
The lower blade guard, attached to your circular saw, is there for your protection and safety. It should NEVER be altered for any reason. If it becomes damaged or begins to return slowly or sluggishly, DO NOT operate your saw until the damage has been repaired or replaced. ALWAYS leave the guard in its correct operating position when using the saw.



**⚠ CAUTION:** NEVER use the saw when the guard is not operating properly. The guard should be checked for correct operation before each use. If you drop your saw, check the lower blade guard and bumper for damage at all depth settings before using. **NOTE:** The guard is operating properly when it moves freely and then readily returns to the closed position. If for any reason your lower blade guard and bumper does not close freely, take the saw to your nearest Sears Repair Center for service before using it.

### KICKBACK...WHAT CAUSES IT AND WAYS TO HELP PREVENT IT (Fig. 4, 5 and 5a)

#### The Causes of Kickback



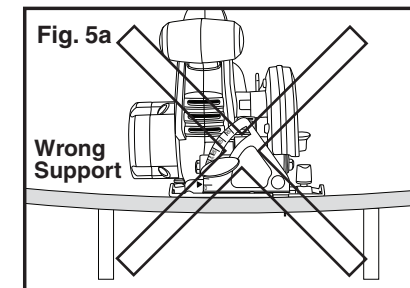
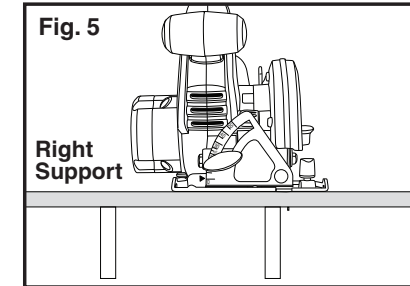
16

## OPERATION cont.

### KICKBACK...WHAT CAUSES IT AND WAYS TO HELP PREVENT IT (Fig. 4, 5 and 5a) cont.

#### The Causes of Kickback cont.

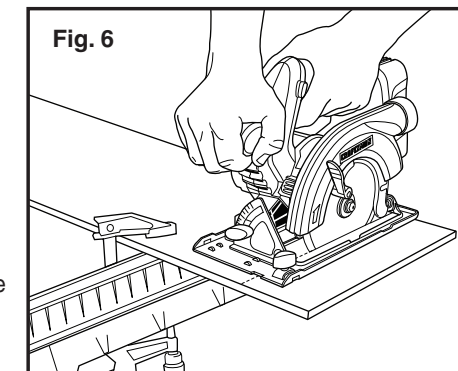
1. Kickback is a sudden reaction to a pinched, bound or misaligned saw blade, which causes an uncontrolled saw to lift up and out of the workpiece and toward the operator.
2. When the blade is pinched or bound tightly by the kerf closing down, the blade stalls and the motor reaction drives the unit rapidly back towards the operator.
3. 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. This causes the blade to climb out of the kerf and jump back towards the operator.
4. Sawing into knots or nails in the workpiece can cause Kickback.
5. Forcing a cut, or not supporting the workpiece correctly can cause Kickback. (see Fig. 5)
6. Sawing into wet or warped lumber can cause Kickback. (see Fig. 5a)
7. Kickback is a result of tool misuse and/or incorrect operating procedures or conditions. It can be avoided by taking the proper precautions, on page 19.



#### Ways to Help Prevent Kickback (Fig. 6)

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

1. **ALWAYS** maintain a firm grip with both (see Fig. 6) hands on the saw and position your body and arms to allow you to resist Kickback forces. Kickback forces can be controlled by the operator, if the proper precautions are taken.
2. If the blade is binding, or when you are interrupting a cut for any reason, **ALWAYS** 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. **CHECK** and take corrective action to eliminate the cause of blade binding.

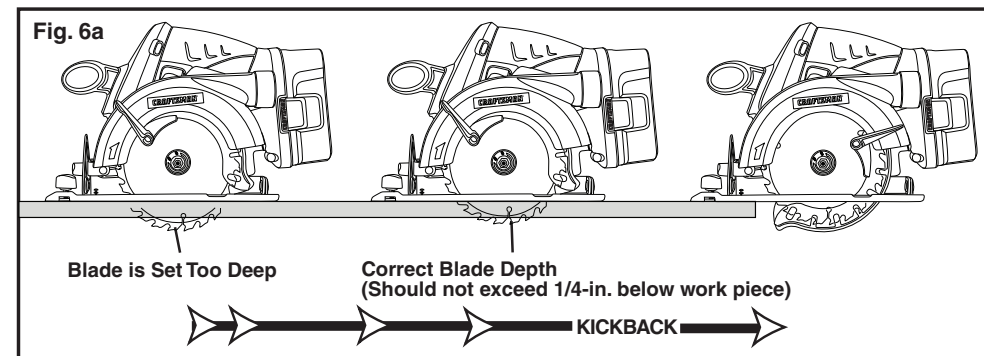


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## OPERATION cont.

### Ways to Help Prevent Kickback cont.

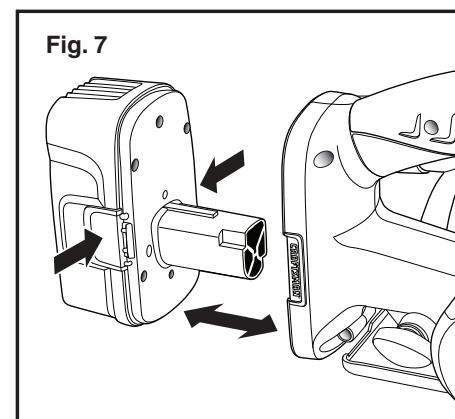
3. Inspect the workpiece for knots or nails before cutting. Never saw into a knot or nail.
4. **DO NOT** cut warped or wet lumber. (see Fig. 5a)
5. **ALWAYS** support large panels to minimize the risk of blade pinching and Kickback. Large panels tend to sag under their own weight (see Fig. 5a). Supports **MUST** be placed under the panel, one near the line of cut and one near the edge of the panel (see Fig. 5).
6. When restarting the saw in the workpiece, **CENTER** the blade in the kerf and check to be sure that the saw teeth are not engaged into the material. If the saw blade is binding, it may walk up or Kickback from the workpiece when the saw is restarted.
7. **DO NOT** use a dull or damaged blade. Unsharpened, improperly set, or gummed-up blades produce narrow kerf which causes excessive friction, blade binding and Kickback.
8. **USE EXTRA CAUTION** when making a "Pocket Cut" into existing walls or other blind areas. The protruding blade may cut objects that can cause Kickback.
9. **KEEP** the blade at the correct depth setting. The depth setting should not exceed 1/4-inch below the material being cut (see Fig. 6a). **BE SURE** that the blade depth and adjusting locking levers are tight and secure **BEFORE** making a cut. If blade adjustment shifts while cutting it may cause binding and Kickback.



### REMOVING BATTERY PACK FROM CIRCULAR SAW (Fig. 7)

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

1. Locate latches on sides of battery pack and depress. Pull back on battery pack while depressing latches to release battery pack from saw.



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## OPERATION cont.

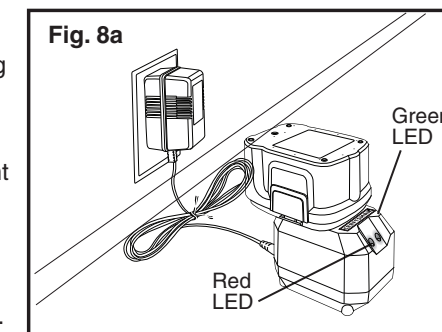
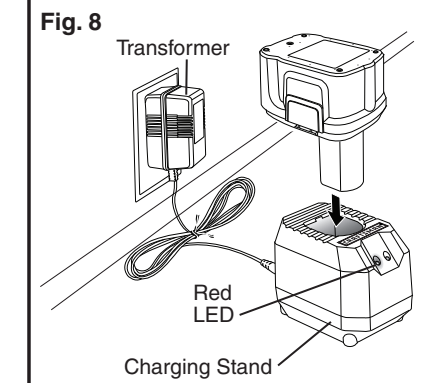
### CHARGING THE BATTERY PACK (Fig. 8 and 8a)

The battery pack for this tool has been shipped in a low charge condition to prevent possible problems. **Therefore, you should charge overnight prior to use.**

**NOTE: Batteries will not reach full charge the first time they are charged. Allow several cycles (operation followed by recharging) for them to become fully charged.**

1. Charge battery pack only with the charger/transformer that was supplied with this saw, or one of the other chargers listed on page 6.
2. Make sure power supply is normal household voltage, 120 volts, 60 Hz, AC-only.
3. Connect battery charger's transformer to power supply.
4. Place battery pack in charging stand. Align raised rib on battery pack with groove in charging stand (See Fig. 8).
5. Press down on battery pack to be sure contacts on battery pack engage properly with contacts in charging stand.
6. The charging stand has two (LED) indicator lights, one green and one red (see Fig. 8a). When the battery pack is put into the charging stand, the red LED will light, indicating that the battery pack is charging properly. When the battery pack is charged and removed from the charging stand, the red light will go Off. The green LED will only come on when there is a problem with the battery or battery or charger.
7. After normal use, 3 hours or less of charging time is required to fully recharge battery pack. If battery pack is completely discharged, 6 hours or longer of charging time is required to fully recharge battery pack.
8. The battery pack will become slightly warm to the touch while charging. This is normal and does not indicate a problem.
9. Do not place the battery charging stand / transformer in an area of extreme heat or cold. It will work best at normal room temperature.
10. When battery pack becomes fully charged, unplug battery charging stand / transformer from power supply and remove the battery pack.

**NOTE: Within the warranty period, if the charging stand LED lights do not operate properly, or the charging stand does not charge the battery pack, return the charging stand / transformer and battery pack to your nearest Sears Store or other Craftsman outlet for free replacement.**



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## OPERATION cont.

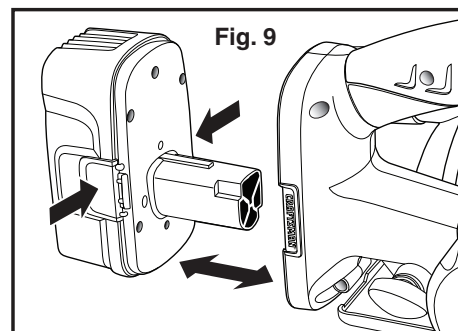
### CHARGING A HOT BATTERY PACK

When using your tool continuously, the batteries in your battery pack will become hot. You should let a hot battery pack cool down for approximately 30 minutes before attempting to recharge.

**NOTE:** A hot battery pack only occurs when prolonged continuous use of your circular saw causes the batteries to become hot. It does not occur with typical use. Within the warranty period, if the battery pack becomes hot with typical use, return the charging stand/transformer, and battery pack to your nearest Sears store or other Craftsman outlet for free replacement.

### INSTALLING THE BATTERY PACK IN CIRCULAR SAW (Fig. 9)

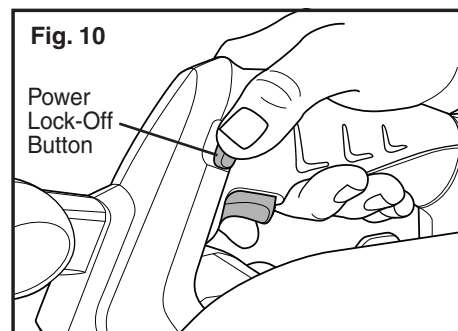
1. Place the battery pack in the saw, aligning the raised rib on battery pack with groove inside the saw.
2. Make sure the latches on each side of the battery pack "snap" into place, and the battery pack is secured in the circular saw before beginning operation.



### TRIGGER SWITCH WITH POWER LOCK-OFF BUTTON (Fig. 10)

To turn the saw **ON**, depress the power lock-off button and depress the trigger switch. The saw will stay **ON** as long as the trigger switch is depressed.

To turn the saw **OFF**, release the trigger switch. the power lock-off button will return to the center **OFF** position



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

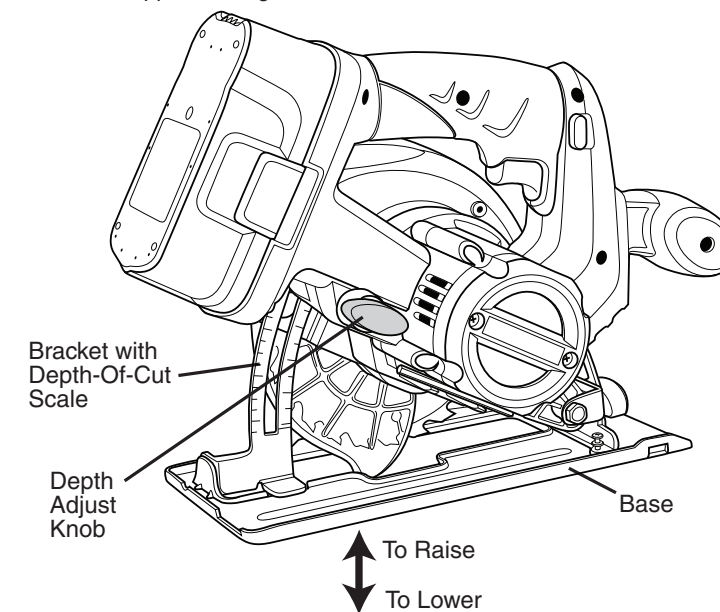
**WARNING:** Cordless Battery Tools are always in operating condition when the battery pack is installed in the tool. Therefore the Power Lock Button should always be in the center position, locking the power off, when the tool is not in use or when you are carrying it at your side.

## OPERATION cont.

### MAKING DEPTH-OF-CUT ADJUSTMENTS (Fig. 11 and 11a)

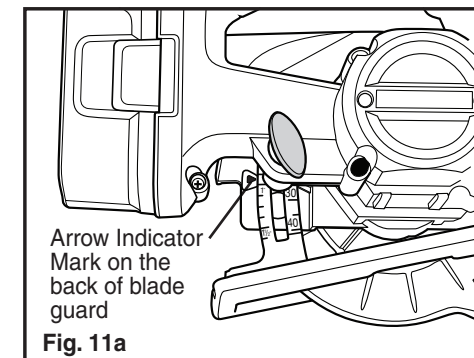
**ALWAYS** use the correct blade depth setting. The correct blade depth setting for all cuts should not be more than 1/4-inch below the material being cut (see Fig. 4). Allowing more depth will increase the chance of kickback and cause the cut to be rough. Your saw is equipped with a depth-of-cut scale to help obtain depth-of-cut accuracy. The depth-of-cut scale is located on the inside back of the upper blade guard.

Fig.11



### TO SET THE BLADE DEPTH (Fig. 11a)

1. Loosen the Depth Adjust Knob (see Fig. 11).
2. Locate the Depth-of-Cut Scale on the Bracket located behind the blade guard (see Fig. 11).
3. To determine the depth-of-cut, hold the base of the saw flat, on and against the edge of the workpiece.
4. Raise or lower the saw blade until the arrow indicator mark on the back of the upper blade guard aligns with the inch mark on the Depth-Of-Cut Scale on the Bracket at your desired depth (see Fig. 11a).
5. Tighten Depth Adjust Knob.



**WARNING:** Cordless Battery Tools are always in operating condition when the battery pack is installed in the tool. Therefore the battery pack should be removed when the tool is not in use or when you are carrying it at your side.

## OPERATION cont.

### STARTING A CUT (Fig. 12)

**⚠ WARNING:** ALWAYS clamp and support workpiece securely. ALWAYS maintain proper control of saw. Failure to clamp and support workpiece and loss of control of saw could result in serious injury.

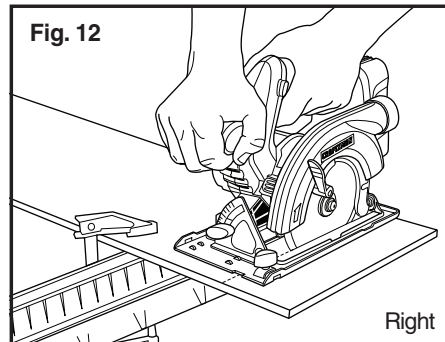
1. ALWAYS use your saw with your hands positioned correctly, with one hand operating the trigger switch and the other on the front assist handle (see Fig. 12).

**⚠ WARNING:** ALWAYS maintain proper control of the saw to make sawing safer and easier. Loss of control of the saw could cause an accident resulting in possible serious injury.

2. NEVER use the saw with your hands positioned as shown in Fig. 13

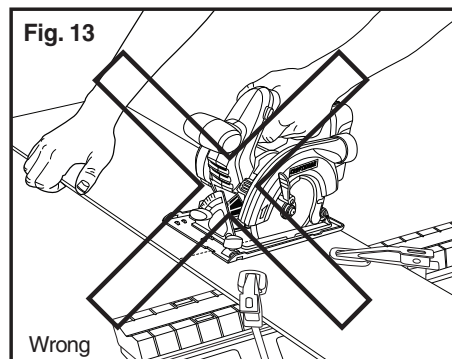
#### TO HELP MAINTAIN CONTROL:

1. ALWAYS support the workpiece near the cut.
2. ALWAYS support the workpiece so the cut will be to the left of support.
3. ALWAYS clamp the workpiece so it will not move during the cut. Place the workpiece with the good side down.



**NOTE:** The good side of the workpiece is the side where appearance is important.

4. Before starting a cut, draw a guideline along the desired line of cut, then place the front edge of the saw base on that part of the workpiece that is solidly supported (see Fig. 12).
5. NEVER place the saw on the part of the workpiece that will fall off when the cut is made (see Fig. 13).
6. Hold the saw firmly with both hands (see Fig 12).
7. Squeeze the trigger switch to start the saw. ALWAYS let the blade reach full speed before you begin the cut into the workpiece.
8. When making a cut, ALWAYS use steady, even pressure. Forcing the saw causes rough cuts and could shorten the life of the saw or cause Kickback.



## OPERATION cont.

### TO HELP MAINTAIN CONTROL cont.:

9. After completing your cut, release the trigger switch and allow the blade to come to a complete stop. DO NOT remove the saw from the workpiece while the blade is moving.

**⚠ DANGER:** When sawing through a workpiece, the lower blade guard DOES NOT cover the blade on the underside of the workpiece (see Fig. 4, page 17). ALWAYS keep your hands and fingers away from the cutting area. Any part of your body coming in contact with the moving blade will result in serious injury.

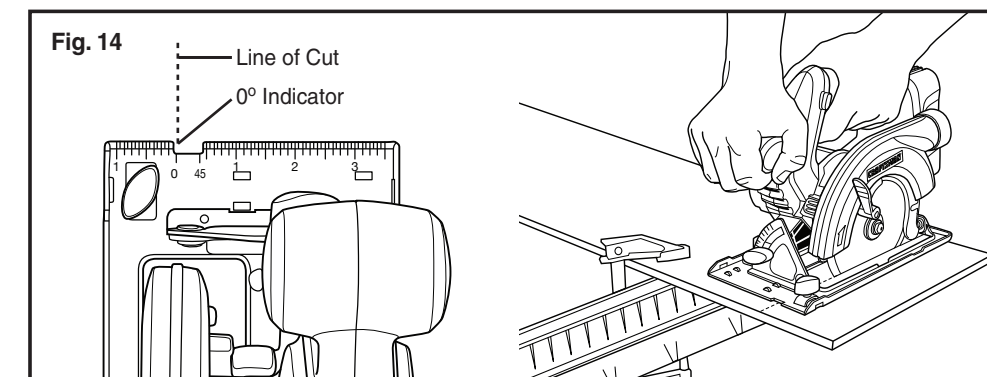
### MAKING CROSS CUTS AND RIP CUTS (Fig. 14)

**⚠ WARNING:** ALWAYS clamp and support workpiece securely. ALWAYS maintain proper control of saw. Failure to clamp and support workpiece and loss of control of saw could result in serious injury.

1. ALWAYS use your saw with your hands positioned correctly (see Fig. 12).

**⚠ WARNING:** ALWAYS maintain proper control of the saw to make sawing safer and easier. Loss of control of the saw could cause an accident resulting in possible serious injury.

2. When making cross or rip cuts, align your line of cut with the right side of the notch by the 0° indicator (see Fig. 14).
3. Since the thickness of blades varies, MAKE A TRIAL CUT in scrap material along the guideline to determine how much, if any, you should offset the blade from the guideline to allow for the kerf of the blade to get an accurate cut.



### MAKING RIP CUTS

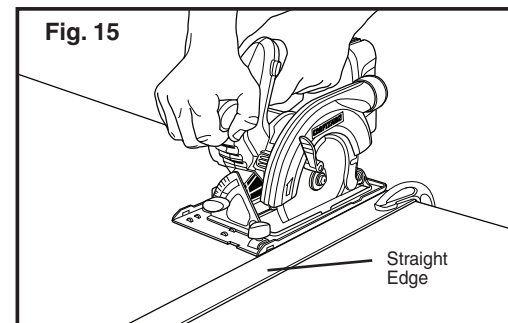
ALWAYS use a guide when making long or wide rip cuts with your saw. You can use either a straight edge or use the edge guide that was included with your saw.

## OPERATION cont.

### USING A STRAIGHT EDGE (Fig. 15)

**⚠ WARNING:** ALWAYS clamp and support workpiece securely. ALWAYS maintain proper control of saw. Failure to clamp and support workpiece combined with loss of control of saw could result in serious injury.

1. You can make an efficient rip guide by clamping a straight edge to your workpiece.
2. Carefully guide the saw along the straight edge for a straight rip cut (see Fig. 15).
3. **ALWAYS LET THE BLADE REACH FULL SPEED, then carefully** guide the saw into the workpiece. **DO NOT bind the blade in the cut.** Push the saw forward at a speed where the blade is not laboring.

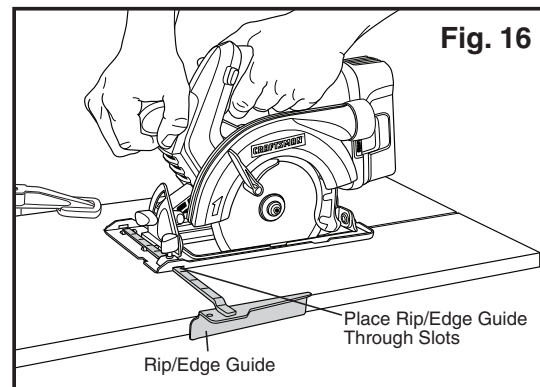


### INSTALLING AND USING EDGE GUIDE (sold separately) (Fig. 16)

1. Remove the battery pack from saw.

**⚠ WARNING:** Failure to remove battery pack from saw could result in accidental starting causing possible serious personal injury.

2. Place the **Lock-Off Switch** into the center position to lock the power off.
3. Position the edge guide so the arm with the inch increments is facing "up". Slide the arm of the edge guide into the mounting slots at the front of the saw's base (see Fig. 15).
4. Adjust the edge guide to the desired length of cut.
5. Tighten the edge guide retaining screw.
6. Clamp and support the workpiece securely before making your cut.
7. Place the edge guide firmly against the edge of the workpiece (see Fig. 16). Doing this will give you a true cut without pinching the blade.
8. **BE SURE** that the guiding edge of the workpiece is straight so you can get a straight cut.
9. **ALWAYS LET THE BLADE REACH FULL SPEED, then carefully** guide the saw into the workpiece. **DO NOT bind the blade in the cut.** Push the saw forward at a speed where the blade is not laboring.



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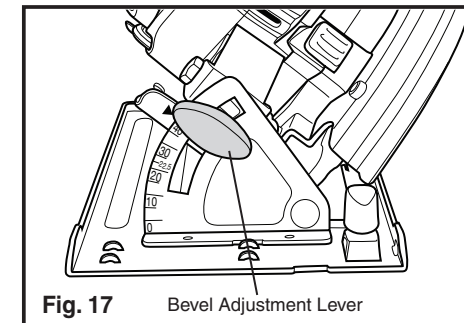
## OPERATION cont.

### HOW TO SET YOUR BEVEL ANGLE (Fig. 17)

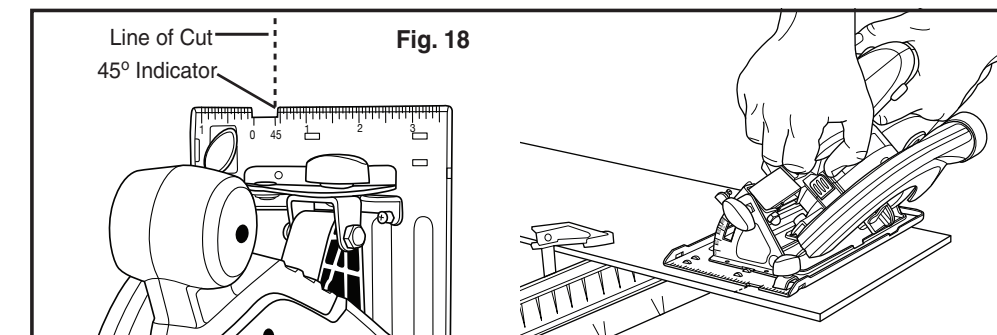
1. Remove the battery pack from saw.

**⚠ WARNING:** Failure to remove battery pack from saw could result in accidental starting causing possible serious personal injury.

2. Place the **Lock-Off Switch** into the center position to lock the power off.
3. Loosen bevel adjustment lever (see Fig. 17).
4. Raise the motor housing end of the saw until the bevel pointer reaches the desired angle setting on the bevel scale.
5. Tighten the adjustment lever securely.



### MAKING BEVEL CUTS (Figs. 18)



**⚠ WARNING:** ALWAYS clamp and support workpiece securely. ALWAYS maintain proper control of saw. Failure to clamp and support workpiece and loss of control of saw could result in serious injury.

1. Your saw can be adjusted to cut at any angle between 0° and 50°. When making 45° bevel cuts, there is a notch in the saw base to help you line up the blade with the line of cut (see Fig. 18).
2. Align your line of cut with the left side of the notch by the 45° indicator when making 45° bevel cuts.
3. Since blade thicknesses vary and different angles require different settings, **MAKE A TRIAL CUT** in scrap material along the guideline to determine how much, if any, you should offset the blade from the guideline to allow for the kerf of the blade to get an accurate cut.
4. When making a bevel cut **HOLD** the saw **FIRMLY** with both hands (see Fig. 18).
5. Rest the front edge of the base on the workpiece, then squeeze the trigger switch to start the saw. **ALWAYS** let the blade reach full speed, then guide the saw into the workpiece.
6. After completing your cut, release the trigger switch and allow the blade to come to a complete stop in the cut. **DO NOT** remove the saw from the workpiece while the blade is moving. It will damage your bevel cut and cause Kickback.

**⚠ WARNING:** If the blade comes in contact with the workpiece before it reaches full speed, it could cause the saw to kickback towards you, possibly resulting in serious injury.

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## OPERATION cont.

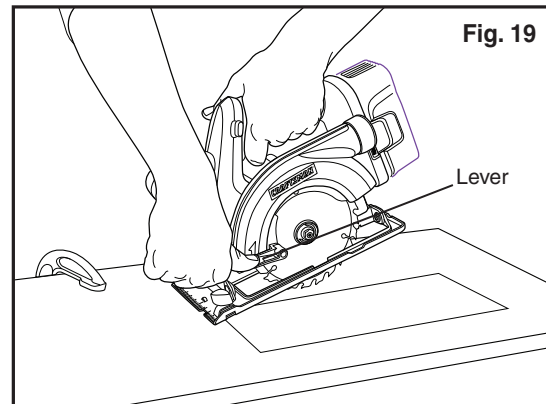
### MAKING POCKET CUTS ( Fig. 19)

**⚠ WARNING:** ALWAYS adjust bevel setting to zero before making a pocket cut. Attempting a pocket cut at any other setting can result in a loss of control of the saw, which can result in serious injury.

1. Adjust the bevel setting to zero, set the blade to the correct blade depth setting, then use the lower blade guard lever to swing the guard up.

**⚠ WARNING:** ALWAYS raise the lower blade guard with the lever to avoid serious injury.

2. While holding the lower blade guard up by the lever, firmly rest the front of the saw base flat against the workpiece with the rear handle raised so the blade **does not** touch the workpiece (see Fig 19).



3. Squeeze the trigger switch to start the saw. **ALWAYS** let the blade reach full speed, then slowly lower the blade onto the workpiece until the base is flat against the workpiece. **AS the blade enters the material, you MUST release the lower blade guard lever.**
4. After you complete the cut, release the trigger switch and allow the blade to come to a complete stop. After the blade has stopped, remove it from the workpiece. If the corners of your pocket cut are not completely cut through, use a hand finishing saw to finish the corners.

**⚠ WARNING:** NEVER tie the lower blade guard in the raised position. Leaving the blade exposed could result in serious injury.

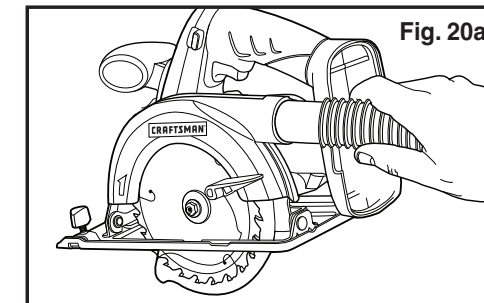
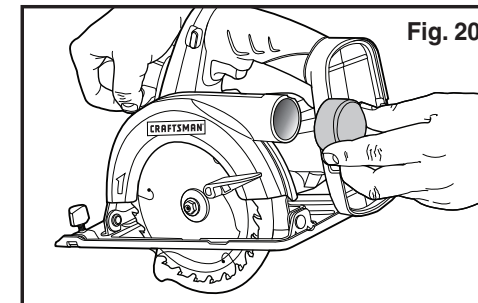
**⚠ WARNING:** Always wear safety goggles or safety glasses with side shields during power tool operations, or when blowing dust. If operation is dusty, also wear a dust mask.

## OPERATION cont.

### BUILT-IN SAWDUST EJECTION CHUTE ( Fig. 20 and 20a)

1. Remove the battery pack from saw.

**⚠ WARNING:** Failure to remove battery pack from saw could result in accidental starting causing possible serious personal injury.



Your saw has a built-in sawdust ejection chute with a cover cap. The sawdust will be ejected down from the blade guards with the cover cap attached to the chute.

If you remove the cover cap (turn to loosen and tighten) the sawdust will be ejected out of the chute towards the rear of the saw.

Remove the cap to attach a 1 1/4-in. vac hose and a wet/dry vac (both sold separately).

## MAINTENANCE

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

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

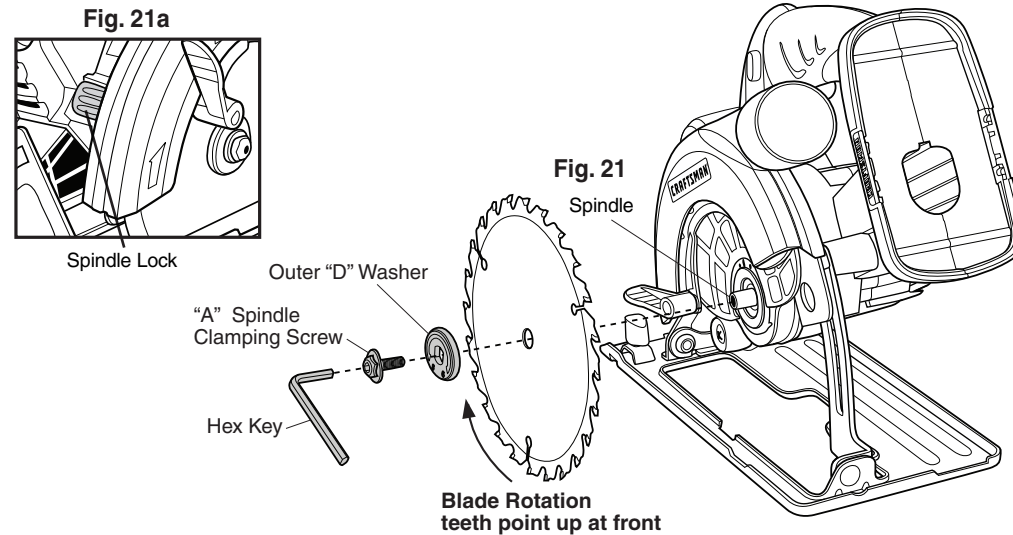
### ROUTINE MAINTENANCE

**⚠ 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.

1. Remove the battery pack from saw.
2. When work has been completed, clean the tool to allow smooth functioning of the tool over time.
3. Use clean damp cloths to wipe the tool.
4. Keep the motor air openings free from oil, grease and sawdust or woodchips, and store tool in a dry place.
5. Be certain that all moving parts are well lubricated, particularly after lengthy exposure to damp and/or dirty conditions.

## MAINTENANCE cont.

### CHANGING THE BLADE (Figs. 21 and 21a)



**WARNING:** BE SURE to wear protective work gloves while handling a saw blade. The blade can injure unprotected hands.

1. Remove the battery pack from saw.

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

2. Place saw on its side on a flat surface.
3. Loosen the depth-of-cut adjustment lever, raise the saw up all the way and tighten lever. This gives you easier access to blade mounting area (see Fig. 21).
4. Place saw up, on its base and on a flat surface (see Fig. 21).
5. Loosen the spindle clamping screw "A", depress the spindle lock button (see Fig. 21a). Place the blade wrench on the spindle clamping screw "A". Move the wrench back and forth until you feel the spindle lock button depress further and it locks the blade in position so the spindle clamping screw can be removed. Keeping the spindle lock button firmly depressed, turn the spindle screw counterclockwise to remove.
6. Raise lower blade guard using the blade guard lever and hold it in the raised position for the next steps.
7. Completely remove the spindle clamping screw "A" and the outer "D" washer and the blade (see Fig. 21).

## MAINTENANCE cont.

### CHANGING THE BLADE (Figs. 21 and 21a) cont.

8. The remaining washer is the inner bushing washer that fits around the spindle shaft and it does not need to be removed.
9. Put a drop of machine oil onto the inner bushing washer and outer "D" washer where they will touch the blade.
10. Place the new saw blade inside the lower blade guard, onto the spindle shaft and against the inner bushing.

**NOTE:** The teeth of the blade should point upward at the front of the saw as shown in (Fig. 21).

11. Replace the "D" washer.
12. Firmly hold down spindle lock button as you replace the spindle screw and hand tighten it in a clockwise direction. Then use blade wrench to tighten the spindle clamping screw thoroughly.

**NOTE:** NEVER use a blade that is too thick to allow the "D" washer to engage with the flat side of the spindle.

**WARNING:** Failure to remove battery pack from saw could result in accidental starting causing possible serious personal injury.

### LUBRICATION

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

### BATTERIES

The battery pack for this tool is equipped with nickel-cadmium rechargeable batteries. Length of service from each charging will depend on the type of work you are doing.

The batteries in this tool 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:

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

For battery storage longer than 30 days:

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

See parts list or page 6 table for correct battery pack number for additional battery packs.

Order through Sears parts and repair, call 1-800-4-MY-HOME

## MAINTENANCE cont.

### BATTERY PACK REMOVAL AND PREPARATION FOR RECYCLING

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

This product contains nickel-cadmium batteries. Local, state or federal laws may prohibit disposal of nickel-cadmium 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. 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.



## TROUBLESHOOTING

### If the blade does not follow a straight line:

- Teeth are dull. This is caused by hitting a hard object such as a nail, dulling teeth on one side. The blade tends to cut to the side with the sharpest teeth.
- Base is out of line or bent.
- Blade is bent.
- Edge guide or straight edge is not being used.

### If the blade binds or smokes from friction:

- Blade is dull.
- Blade is on backwards.
- Blade is bent.
- Workpiece is not properly supported.
- Incorrect blade is being used.

## ACCESSORIES

**⚠ WARNING:** The use of attachments or accessories that are not recommended for this tool might be dangerous and could result in serious injury.

Sears and other Craftsman outlets have a selection of 5 1/2-inch Craftsman steel carbide-tipped blades designed for specific cutting applications.

Sears and other Craftsman outlets also offer sawhorses, combination and framing squares, straight edges, edge guides, and a large assortment of clamps to help you with all your sawing needs.

Visit your local Sears store or other Craftsman outlets or shop [sears.com/craftsman](http://sears.com/craftsman).

## PARTS LIST

### 5 1/2-in. Cordless Circular Saw Model No. 172.67098 In Kit 9-11518

Item No.	Parts No.	Part Description	Qty.
1	CSC18GU-1	PRESS BOLT	1
2	CSC18GU-2	OUTER FLANGE	1
3	CSC18GU-3	SAW BLADE	1
4	CSC18GU-4	INNER FLANGE	1
5	CSC18GU-5	RETAINING RING 26	1
6	CSC18GU-6	LOWER GUARD	1
7	CSC18GU-7	TORSION SPRING	1
8	CSC18GU-8	SCREW M5X16	2
101	CSC18GU-101	GEAR UNIT	1
9	CSC18GU-9	GEAR COVER	1
10	CSC18GU-10	BALL BEARING 6000	1
11	CSC18GU-11	SPINDLE	1
12	CSC18GU-12	GEAR	1
13	CSC18GU-13	SELF TAPPING SCREW M6X20	1
14	CSC18GU-14	RUBBER RING	1
15	CSC18GU-15	SCREW M4X12	2
102	CSC18GU-102	FIXED GUARD NUT	1
16	CSC18GU-16	NEEDLE BEARING BK061009	1
17	CSC18GU-17	UPPER GUARD	1
18	CSC18GU-18	DUST EXTRACTOR COVER	1
19	CSC18GU-19	LOCKING KNOB	1
20	CSC18GU-20	COMPRESSION SPRING	1
21	CSC18GU-21	FELT SEAL	1
103	CSC18GU-103	MOTOR UNIT	1



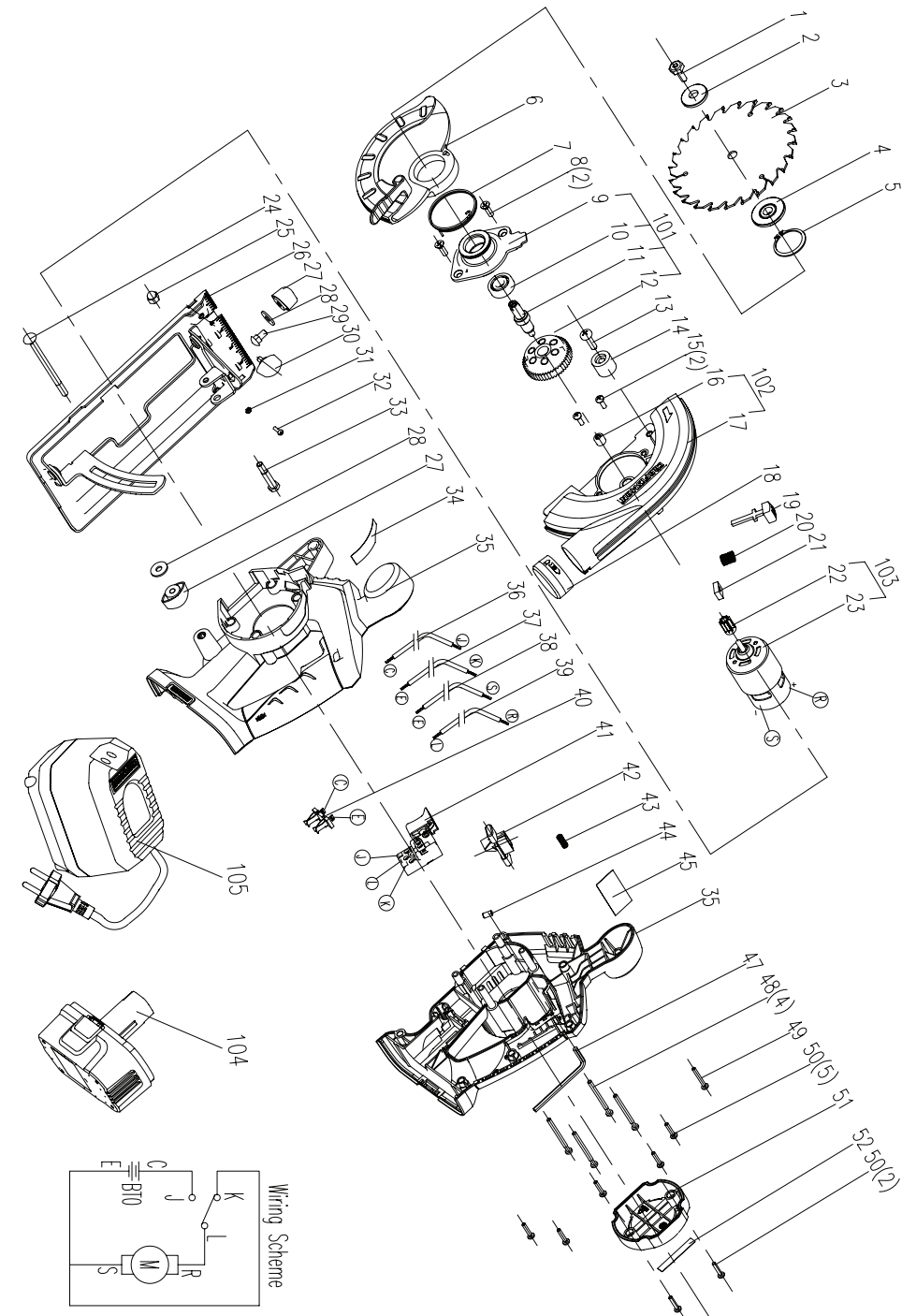
**PARTS LIST cont.**

**5 1/2-in. Cordless Circular Saw  
Model No. 172.67098 In Kit 9-11518**

Item No.	Parts No.	Part Description	Qty.
22	CSC18GU-22	PINION	1
23	CSC18GU-23	DC MOTOR	1
24	CSC18GU-24	BOLT M6X90	1
25	CSC18GU-25	NUT M6	1
26	CSC18GU-26	BASE ASSEMBLY	1
27	CSC18GU-27	LOCKER KNOB	2
28	CSC18GU-28	WASHER	2
29	CSC18GU-29	BOLT M6X14	1
30	CSC18GU-30	RULER LOCKER	1
31	CSC18GU-31	NUT M3	1
32	CSC18GU-32	SCREW M3X10	1
33	CSC18GU-33	BOLT M6X35	1
34	CSC18GU-34	WARNING LABLE	1
35	CSC18GU-35	LEFT/RIGHT HOUSING	1
36	CSC18GU-36	INNER WIRE	1
37	CSC18GU-37	INNER WIRE	1
38	CSC18GU-38	INNER WIRE	1
39	CSC18GU-39	INNER WIRE	1
40	CSC18GU-40	TERMINAL	1
41	CSC18GU-41	SWITCH	1
42	CSC18GU-42	LOCK BUTTON	1
43	CSC18GU-43	COMPRESSION SPRING	1
44	CSC18GU-44	RUBBER PIN	1
45	CSC18GU-45	RATED LABLE	1
47	CSC18GU-47	SPANNER	1
48	CSC18GU-48	SCREW M4X50	4
49	CSC18GU-49	SELF TAPPING SCREW ST3.5X30	1
50	CSC18GU-50	SELF TAPPING SCREW ST3.5X20	7
51	CSC18GU-51	REAR COVER	1
52	CSC18GU-52	BRAND LABLE	1
104	CSC18GU-104	18V BATTERY PACK	1
105	CSC18GU-105	18V CHARGER	1

**PARTS LIST cont.**

**5 1/2-in. Cordless Circular Saw  
Model No. 172.67098 In Kit 9-11518**



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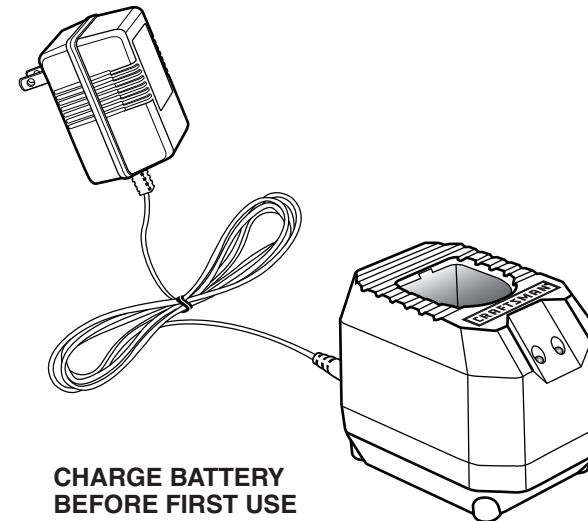
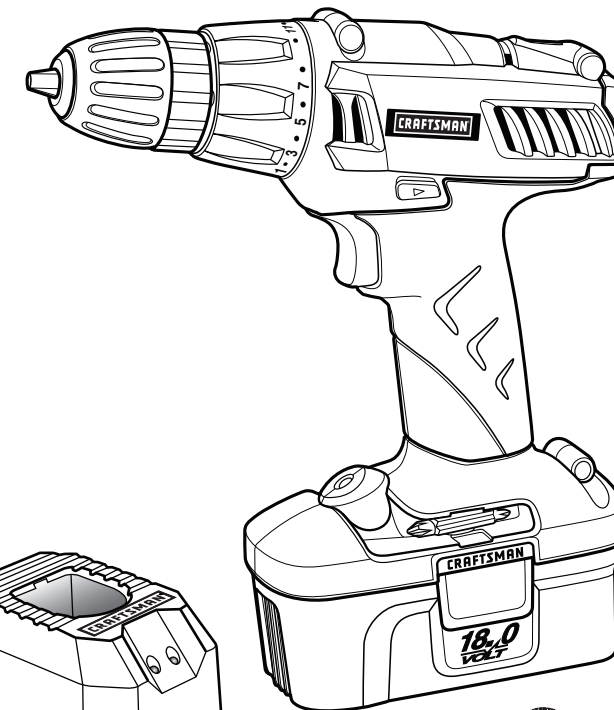
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**Operator's Manual**

**CRAFTSMAN®**

**3/8-in. Variable Speed / Reversible  
18.0 Volt Cordless Drill / Driver**

**Model No.  
172.64120  
18.0 Volt  
in Kit 9-11518**



**CHARGE BATTERY  
BEFORE FIRST USE**

**CAUTION:**

Read, understand and follow all Safety Rules and Operating Instructions in this Manual before using this product.

**Sears, Roebuck and Co.,  
Hoffman Estates, IL 60179 U.S.A.**

Visit our Craftsman® website:  
[www.craftsman.com](http://www.craftsman.com)



3025736  
Certified to CAN/CSA  
STD C22.2 NO 60745-1,  
60745-2-1, 60745-2-2  
conforms to UL STD  
60745-1, 60745-2-1,  
60745-2-2

- **WARRANTY**
- **SAFETY**
- **DESCRIPTION**
- **OPERATION**
- **MAINTENANCE**

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### ONE YEAR FULL WARRANTY ON CRAFTSMAN® TOOL

If this Craftsman tool fails due to a defect in material or workmanship within one year from the date of purchase, **RETURN IT TO ANY SEARS STORE OR OTHER CRAFTSMAN OUTLET IN THE UNITED STATES FOR FREE REPLACEMENT.**

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

If this Craftsman product 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

**SAVE THESE INSTRUCTIONS!  
READ ALL INSTRUCTIONS!**

**⚠ 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 instructions in this manual, including all safety alert symbols such as “DANGER”, “WARNING” and “CAUTION”, BEFORE using this drill/driver. Failure to follow all instructions listed below may result in electric shock, fire and/or serious personal injury.

### SYMBOL MEANING

**⚠ SAFETY ALERT SYMBOL:** Indicates DANGER, WARNING, OR CAUTION. May be used in conjunction with other symbols or pictographs.

**⚠ DANGER** Failure to obey this safety warning **WILL** result in death or serious injury to yourself or to others. Always follow the safety precautions to reduce the risk of fire, electric shock and personal injury.

**⚠ WARNING** Failure to obey this safety warning **CAN** result in death or serious injury to yourself or to others. Always follow the safety precautions to reduce the risk of fire, electric shock and personal injury.

**⚠ CAUTION** Failure to obey this safety warning **MAY** result in personal injury to yourself or others or property damage. Always follow the safety precautions to reduce the risk of fire, electric shock and personal injury.

### DAMAGE PREVENTION AND INFORMATION MESSAGES

These inform user of **important information and/or instructions** that could lead to equipment or other property damage if not followed. Each message is preceded by the word “NOTE:” as in the example below:

**NOTE:** Equipment and/or property damage may result if these instructions are not followed.



**⚠ WARNING:** The operation of any drill/driver 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 shield and a full-face shield when needed. We recommend a Wide Vision Safety Mask for use over eyeglasses or standard safety glasses with side shield, available at Sears Stores or other Craftsman Outlets.

## SAFETY INSTRUCTIONS

**⚠ WARNING: BE SURE to read and understand all instructions in this manual before using this drill/driver. Failure to follow all instructions may result in electric shock, fire and/or serious personal injury.**

### WORK AREA SAFETY

1. **Keep your work area clean and well lit.** Cluttered workbenches and dark areas invite accidents.
2. **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.
3. **Keep bystanders, children and visitors away while operating a power tool.** Distractions can cause you to lose control.
4. **Make your workshop childproof** with padlocks and master switches. Lock tools away when not in use.
5. **MAKE SURE the work area has ample lighting** so you can see the work and that there are no obstructions that will interfere with safe operation **BEFORE** using your cordless drill / driver.

### PERSONAL SAFETY

1. **KNOW your cordless drill/driver.** Read the operator's manual carefully. Learn the tool's applications and limitations, as well as the specific potential hazards related to this tool.
2. **STAY ALERT,** watch what you are doing and use common sense when operating a power tool.
3. **DO NOT** use power tools while tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
4. **DRESS properly. DO NOT** wear loose clothing or jewelry. Pull back long hair. Keep your hair, clothing, and gloves away from moving parts. Loose clothing, or long hair can be caught in moving parts. Air vents often cover moving parts and should also be avoided.
5. **AVOID** accidental starting. Be sure trigger switch is in the "Locked OFF" position before inserting battery pack. **DO NOT** carry tools with your finger on the trigger switch. Carrying tools with your finger on the trigger switch or inserting the battery pack in tools that have the switch in the "FORWARD" OR "REVERSE" position invites accidents.
6. **Do not overreach. Keep proper footing and balance at all times.** Proper footing and balance enables better control of the tool in unexpected situations.
7. **ALWAYS SECURE YOUR WORK.** Use clamps or a vise to hold work when practical. It is safer than using your hand and frees both hands to operate tool.
8. **DO NOT USE ON A LADDER or unstable support.** Stable footing on a solid surface enables better control of the tool in unexpected situations.

## SAFETY INSTRUCTIONS cont.

### TOOL USE AND CARE SAFETY

**⚠ WARNING: BE SURE to read and understand all instructions before operating this drill/driver. Failure to follow all instructions listed below may result in electric shock, fire and/or serious personal injury.**

1. **ALWAYS use clamps or other practical ways to secure and support the workpiece to a stable platform.** Holding the work by hand or against your body is unstable and may lead to loss of control.
2. **DO NOT force the tool. Use the correct tool and accessory bit for your application.** The correct tool and bit will do the job better and safer at the rate for which it is designed.
3. **DO NOT use the tool if trigger switch does not turn it "On" or "Off".** Any tool that cannot be controlled with the trigger switch is dangerous and must be repaired.
4. **REMOVE the battery pack from the drill/driver or place the forward/reverse selector switch with power lock-off in the "Lock Off" position before making any adjustments, changing accessories or storing the tool.** Such preventive safety measures reduce the risk of starting the tool accidentally.
5. **STORE idle tools out of the reach of children and other untrained persons.** Tools are dangerous in the hands of untrained users.
6. **ALWAYS remove battery pack and store separately when drill/driver is not being used.**
7. **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 the other.** Shorting the battery terminals together may cause burns to skin, sparks or a fire.
8. **MAINTAIN tools with care. Keep cutting tools such as twist drill bits sharp and clean.** Properly maintained tools with sharp cutting edges are less likely to bind and are easier to use and control.
9. **CHECK for misalignment or binding of moving parts,** breakage of parts, and any other condition that may affect the tool's operation. If damaged, have the tool serviced before using. Many accidents are caused by poorly maintained tools.
10. **USE ONLY accessories that are recommended for this tool.** Accessories that may be suitable for one tool may become hazardous when used on another tool. **See page 25 for accessories.**
11. **Keep the tool and its handle dry, clean and free from oil and grease. Always use a clean cloth when cleaning. Never use brake fluids, gasoline, petroleum-based products, or any strong solvents to clean your tool.** Following this rule will reduce the risk of loss of control and deterioration of the plastic enclosure of the drill / driver.

## SAFETY INSTRUCTIONS cont.

### ELECTRICAL SAFETY

**⚠ WARNING: BE SURE to read and understand all instructions before operating this drill/driver. Failure to follow all instructions listed below may result in electric shock, fire and/or serious personal injury.**

A battery operated tool with integral batteries or a separate battery pack must be recharged only with the specified charging stand/transformer for the battery. A charger that may be suitable for one type of battery may create a risk of fire when used with another battery.

1. Use battery operated tool only with specifically designated battery pack. Use of any other batteries may create a risk of fire.
2. Use battery only with charging stand/transformer listed.

Kit No. 9-11518 18.0 Volt Model No.		
DRILL/DRIVER	CHARGING STAND/TRANSFORMER	BATTERY PACK
172.64120	CDT218GU-103/BHY41-23.5V-200mA	CDT218GU-104(ABP318GU)
	Can also use 1426101 and 140295004	Can also use 1323509, 1323520, 130260001, 130139020 and 130139021

3. Do not abuse the cord on the charging stand. Never carry the charging stand/transformer by its power cord. Never pull the power cord to remove the transformer from the power outlet. Damage to the cord or charging stand/transformer could occur and create an electric shock hazard. Keep cord away from heat, oil, sharp edges or moving parts. Replace damaged cords immediately. Damaged cords increase the risk of electric shock.

### SAFETY SYMBOLS FOR YOUR TOOL

The label on your tool may include the following symbols.

V.....	Volts
A.....	Amps
Hz.....	Hertz
W.....	Watts
~.....	Alternating current
—.....	Direct current
n <sub>o</sub> .....	No-load speed
□.....	Class II construction, Double Insulated
RPM.....	Revolutions per minute
SPM.....	Strokes per minute
OPM.....	Orbits per minute
⚠.....	Indicates danger, warning or caution. It means attention! Your safety is involved.

### SERVICE SAFETY

1. If any part of this cordless drill / driver is missing or should break, bend, or fail in any way; or should any component fail to perform properly: have the missing, damaged or failed parts replaced **BEFORE** resuming operation.

## SAFETY INSTRUCTIONS cont.

### SERVICE SAFETY cont.

2. Tool service must be performed only at a Sears Parts and Repair Center. Service or maintenance performed by unqualified personnel could result in a risk of injury.
3. When servicing a 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 electric shock or injury.

### SPECIFIC SAFETY RULES FOR CORDLESS DRILL / DRIVERS

1. Know your cordless drill / driver. Read operator's 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.
2. BE SURE that twist drill bits, screwdriver bits and other accessory attachments are properly and securely mounted in the chuck jaws **BEFORE** operating the drill / driver.
3. ALWAYS carefully inspect the material you are going to drill / drive into. Drilling / driving into nails, pipes and electrical wires can cause serious personal injury.
4. HOLD DRILL / DRIVER by insulated gripping surfaces (handles) when performing an operation where the tool may drill / drive into hidden wiring. Contact with a "live" wire will make the exposed metal parts of the tool "live" and shock the operator.
5. NEVER hold the piece being drilled in your hands or across your legs. It is important to support and clamp the workpiece properly in order to minimize body exposure, bit binding, or loss of control.
6. Maintain a firm grip on the drill / driver to resist starting torque.
7. Use sharp accessory bits only. For drilling in WOOD use twist drill bits, spade bits, or power auger bits. For METAL use high-speed steel twist drill bits. For MASONRY use carbide-tipped bits. For PLASTIC use low drilling speeds for material with a low melting point. For SCREWDRIVING use the proper size screwdriving bit for the screwdriving application such as Phillips, slotted and square recess bits.
8. BE SURE the material to be drilled is stationary, anchored or clamped firmly. If drilling thin material, use a back-up block to prevent damage to the material.
9. ONLY USE the specifically listed battery pack and charging stand listed on page 6 of this manual. Use of any other battery pack or charging stand/transformer can create risk of injury and fire.
10. Cordless 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 operated tool or when changing accessories. Following this rule will reduce the risk of electric shock, fire, or serious personal injury.
11. Do not place battery tools or their batteries near fire or heat. This will reduce the risk of explosion and possible injury.
12. Do not crush, drop or damage battery pack. Never use a battery pack or charging stand/transformer that has been dropped or received a sharp blow. A damaged battery pack is subject to explosion. Properly dispose of a dropped or damaged battery pack immediately.

## SAFETY INSTRUCTIONS cont.

### SPECIFIC SAFETY RULES FOR CORDLESS DRILL / DRIVERS cont.

13. **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 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.
14. **Do not charge battery pack in a damp or wet location.** Following this rule will reduce the risk of electric shock.
15. For best results, your battery pack should be charged in a location where the temperature is more than 50°F but less than 80°F. Do not store battery outside or in vehicles.
16. **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.**
17. **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.

### SAFETY RULES FOR BATTERY CHARGING STAND/TRANSFORMER

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

**NOTE:** Before using battery charging stand / transformer, read all instructions and cautionary markings in this manual, on battery charging stand / transformer, battery pack, and drill / driver using battery pack to prevent misuse of the products and possible injury or damage.

**⚠ CAUTION: USE ONLY** the specifically designated battery charging stand / transformer that was supplied with this drill / driver when charging the battery pack. The use of any other battery charging stand / transformer could damage the battery pack, and create a hazardous condition. See page 6.

**⚠ CAUTION:** To reduce the risk of electric shock or damage to the battery charging stand / transformer and battery pack, charge only the specifically designated battery pack that was included with this drill / driver and charging stand / transformer. Charging other types of battery packs may cause them to burst, causing personal injury and damage.

1. **Do not use the battery charging stand / transformer outdoors or expose to wet or damp conditions.** Water entering charging stand will increase the risk of electric shock.
2. **Use of an attachment with this battery charging stand / transformer that is not recommended may result in a risk of fire, electric shock, or injury to persons.**

## SAFETY INSTRUCTIONS cont.

### SAFETY RULES FOR BATTERY CHARGING STAND/TRANSFORMER cont.

3. **Do not abuse the cord on the battery charging stand / transformer.** Never carry the charging stand / transformer by its power cord. Never pull the power cord to remove the transformer from the power outlet. Damage to the cord or charging stand / transformer could occur and create an electric shock hazard. Keep cord away from heat, oil, sharp edges or moving parts. Replace damaged cords immediately. Damaged cords increase the risk of electric shock.
4. **Make sure cord is located so that it will not be stepped on, tripped over, come in contact with sharp edges or moving parts, heat, oil, 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.
5. **Keep cord and charging stand / transformer away from heat to prevent damage to housing or internal parts.**
6. **Do not let gasoline, oils, petroleum-based products, etc. come in contact with plastic parts.** They contain chemicals which can damage, weaken or destroy plastic.
7. **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: **a)** That pins on plug of extension cord are the same number, size and shape as those on the transformer, **b)** That extension cord is properly wired and in good electrical condition, and **c)** That you use a proper extension cord. **ONLY** use cords listed by Underwriters Laboratories (UL). Other extension cords can cause a drop in line voltage, resulting in a loss of power and overheating of charging stand/transformer. An AWG (American Wire Gauge) size of at least 14-gauge is recommended for an extension cord of 25-ft. or less in length. Use 12-gauge for an extension cord of 50-ft. **Extension cords 100-ft. or longer are not recommended.**
8. **INSPECT tool cords for damage. Do not operate charging stand with a damaged cord or transformer, which could cause shorting and electric shock.** Have damaged tool cords repaired at a Sears Service Center.
9. **Do not operate charging stand / transformer if it has received a sharp blow, been dropped, or otherwise damaged in any way.** Take it to an authorized serviceman for electrical check to determine if the charging stand / transformer is in good working order.
10. **Do not disassemble charging stand / transformer. Take it to a Sears Parts and Repair Center when service or repair is required.** Incorrect reassembly may result in a risk of electric shock or fire.
11. **Disconnect charging stand/transformer from the power supply when not in use.** This will reduce the risk of electric shock or damage if metal items should fall into the opening in the charging stand. It also will help prevent damage during a power surge.
12. **Risk of electric shock. Do not touch** un-insulated portion of output connector or un-insulated battery terminal.
13. **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 to prevent misuse of the product and possible injury.

## SAFETY INSTRUCTIONS cont.

**⚠ 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. 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.

**⚠ WARNING:** Use of this tool can generate and/or disburse dust, which may cause serious and permanent respiratory or other injury. Always use NIOSH/OSHA approved respiratory protection appropriate for the dust exposure. Direct particles away from face and body.

## ADDITIONAL RULES FOR SAFE OPERATION

**⚠ WARNING:** BE SURE to read and understand all instructions. Failure to follow all instructions listed may result in electric shock, fire and/or serious personal injury.

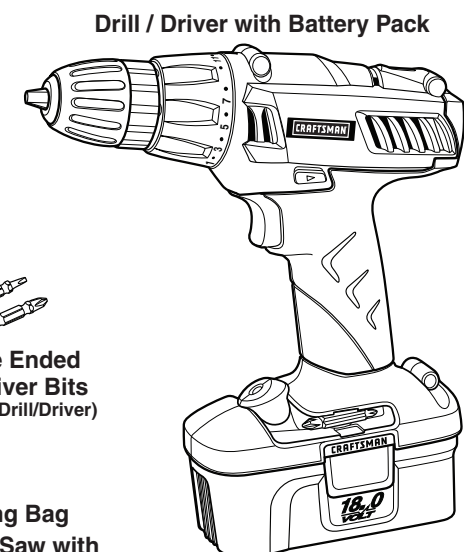
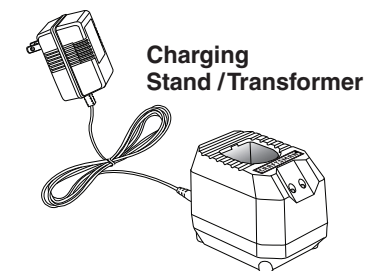
1. **Know your drill / driver.** Read operator's manual carefully. Learn the applications and limitations, as well as the specific potential hazards related to this tool. Following this rule will reduce the risk of electric shock, fire or serious injury.
2. **ALWAYS wear safety glasses or eye shields when using this drill / driver.** Everyday eyeglasses have only impact-resistant lenses; they are **NOT** safety glasses.
3. **PROTECT your lungs.** Wear a face mask or dust mask if the operation is dusty.
4. **PROTECT your hearing.** Wear appropriate personal hearing protection during use. Under some conditions noise from this product may contribute to hearing loss.
5. **SAVE THESE INSTRUCTIONS.** Refer to them frequently and use them to instruct others who may use this tool. If someone borrows this tool, make sure they have these instructions also.

## CARTON CONTENTS

This product has been shipped completely assembled.

1. Carefully remove the **Storage/Carrying Bag with Drill/Driver and Battery Pack, Charging Stand/Transformer** and **Screwdriver Bits** from the box.
2. Make sure that all items listed in the packing list are included.
3. Inspect the tool carefully to make sure no breakage or damage occurred during shipping.
4. Do not discard the packing material until you have carefully inspected and satisfactorily operated the tool.
5. If any parts are missing, return to the nearest Sears store or other Craftsman outlet to have the Drill / Driver replaced.

### PACKING LIST (Fig.1)



Operator's Manual

**⚠ WARNING:** If any parts are missing do not operate this tool until the missing parts are replaced. Failure to do so could result in possible 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.

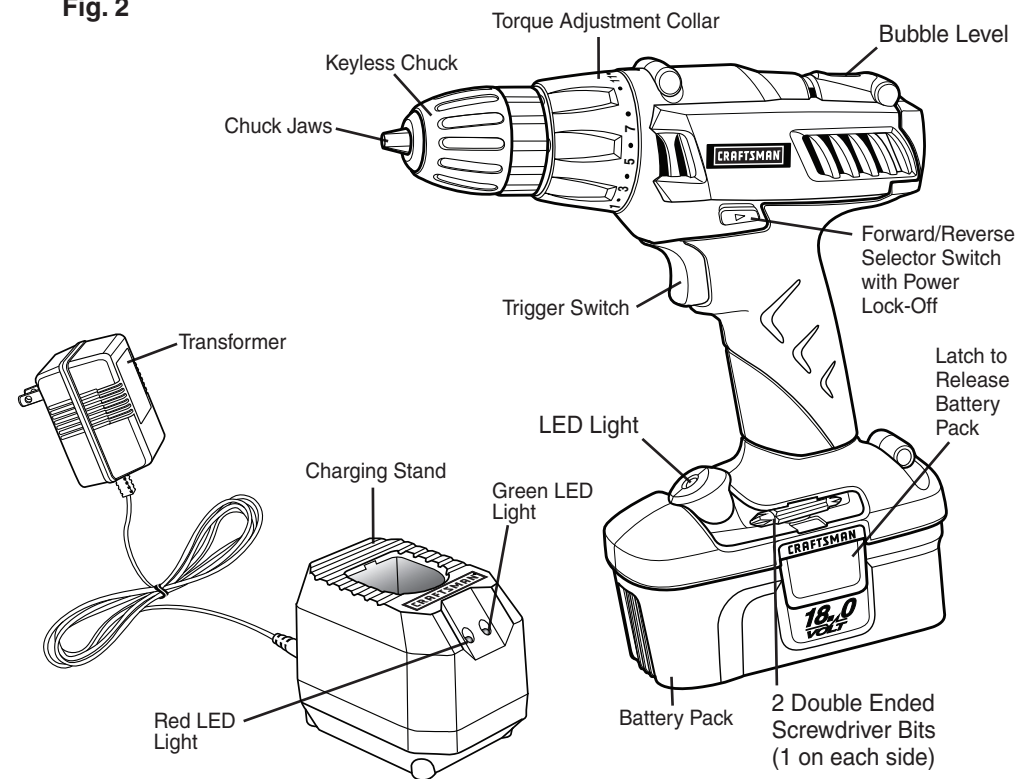


## DESCRIPTION

### KNOW YOUR CORDLESS DRILL / DRIVER (Fig. 2)

**NOTE:** Before attempting to use this product, familiarize yourself with all operating features and safety rules.

Fig. 2



Safety, performance and dependability have been given top priority in the design of this product, making it easy to maintain and operate.

#### This Cordless Drill/Driver has the following features:

1. **Variable Speed 0-650 RPM (no-load speed)** match high-torque driving and high speed drilling to bit and material used in a variety of job applications. Increase pressure on trigger switch for higher speed, decrease pressure for lower speed. Reversible to remove fasteners.

## DESCRIPTION cont.

#### This Cordless Drill/Driver has the following features cont.:

2. **Forward / Reverse Power Lock-Off Switch** conveniently located for easy operation.
3. **3/8-in. Keyless Chuck** hand tightens bits fast and secure without chuck key. Provides positive retention of 1/16-in. to 3/8-in. shanked bits.
4. **23 Plus 1 Position Adjustable Torque Clutch** adjusts to automatically stop bit rotation at desired torque setting to prevent overdriving screws. One locked position for drilling.
5. **Electric Brake** stops bit rotation instantly when trigger is released. Ideal when driving screws, nuts, and bolts.
6. **Bubble Level** helps provide accurate right angle drilling and driving straight into workpiece.
7. **Ergonomic "T" Handle Design with molded in comfort grip** provides maximum control, added balance and gripping comfort.
8. **LED Light illuminates drill / drive area** for hands-free lighting in any application.
9. **Fan-cooled motor** provides the torque and power needed for a variety of drilling and driving applications.
10. **Durable impact-resistant housing** helps protect tool from damage and reduces weight.
11. **The Nickel-Cadmium battery pack recharges in 3 to 6 hours** under normal use.
12. **Charging Stand/Transformer has LED Lights.** Green indicates power On, Red indicates when battery is charging
13. **Includes: 2 double-ended screwdriver bits and storage/carrying bag** for easy carrying and storage of drill/driver, saw and accessories.

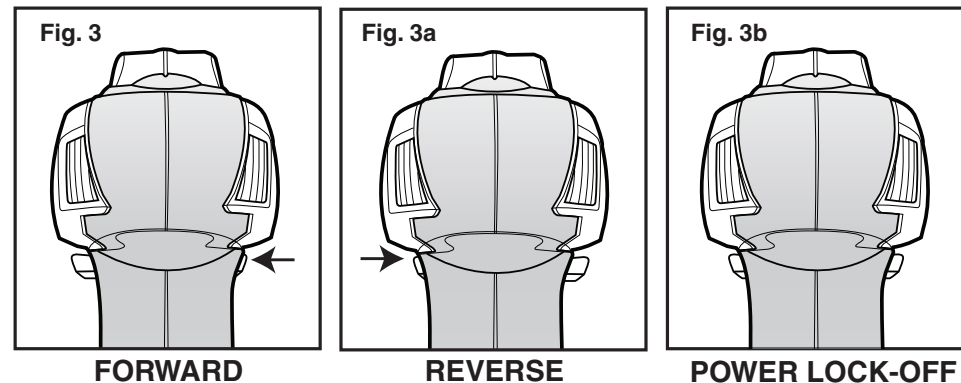
## PRODUCT SPECIFICATIONS

#### Drill No. 64120, in Kit 11518:

<b>Chuck</b>	3/8-in. keyless
<b>Motor</b>	18.0 Volt DC
<b>Switch</b>	Variable Speed
<b>No Load Speed</b>	0-650 RPM
<b>Clutch</b>	23 + 1 Position
<b>Torque</b>	Max. 160 in.-lbs
<b>Charger Input</b>	120V, 60Hz AC
<b>Charge Rate</b>	3 to 6 Hours

## OPERATION

### FORWARD / REVERSE SELECTOR SWITCH with POWER LOCK-OFF (Fig. 3, 3a, 3b)



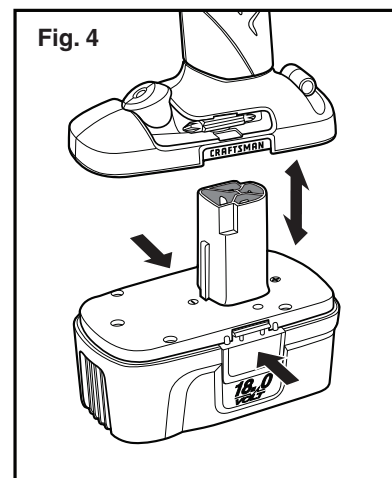
The direction of bit rotation is forward or reverse and is controlled by a selector switch located above and to the rear of the trigger switch. When holding the drill/driver in the normal operating position, (and viewed from the back of the drill/driver see Figs. 3, 3a and 3b), the selector switch should be positioned (pushed) all the way to the LEFT, for FORWARD or normal drilling / driving, and positioned (pushed) all the way to the RIGHT for REVERSE to remove drill bits and back out screws.

The third position for the selector switch is located in the CENTER (Fig. 3b). This position keeps the trigger switch from working, locking the power "OFF". Setting the selector switch in the "OFF" or CENTER position helps reduce the possibility of accidental starting when the tool is not in use.

**CAUTION:** To prevent gear damage, always allow the chuck to come to a complete stop before changing the direction of rotation.

### REMOVE BATTERY PACK FROM DRILL / DRIVER (Fig. 4)

1. Place the **Forward / Reverse Selector Switch with Power Lock-Off** into the center position to lock the power off (see Fig. 3b, above).
2. Locate the latches on each side of the battery pack. Depress (squeeze in) latches and pull battery pack out of drill (see Fig. 4).



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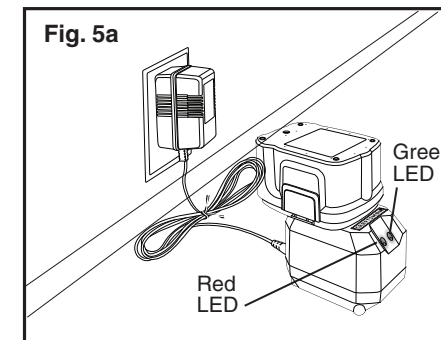
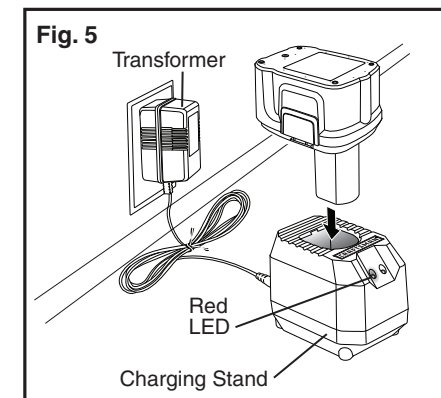
## OPERATION cont.

### CHARGING THE BATTERY PACK (Fig. 5 and 5a)

The battery pack for this tool has been shipped in a low charge condition to prevent possible problems. **Therefore, you should charge overnight prior to use.**

**NOTE: Batteries will not reach full charge the first time they are charged. Allow several cycles (operation followed by recharging) for them to become fully charged.**

1. Charge battery pack only with the charging stand / transformer that was supplied with this drill / driver or one of the other chargers listed on page 6.
2. Make sure power supply is normal household voltage, 120 volts, 60 Hz, AC-only.
3. Connect charging stand's transformer to power supply.
4. Place battery pack in charging stand. Align raised rib on battery pack with groove in charging stand (See Fig. 5).
5. Press down on battery pack to be sure contacts on battery pack engage properly with contacts in charging stand.
6. The charging stand has two (LED) indicator lights, one green and one red. When a battery pack is put into the charging stand, the red LED will light, indicating that the battery pack is charging properly (see Fig. 5a). When the battery pack is charged and removed from the charging stand, the red light will go Off. The green LED will come on **only** when there is a problem with the battery or charger.
7. After normal use, 3 hours or less of charging time is required to fully recharge battery pack. If battery pack is completely discharged, 6 hours or longer of charging time is required to fully recharge battery pack.



**NOTE: Within the warranty period, if the charging stand LED lights do not operate properly, or the charging stand does not charge the battery pack, return the charging stand / transformer and battery pack to your nearest Sears Store or other Craftsman outlet for free replacement.**

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## OPERATION cont.

### CHARGING THE BATTERY PACK cont. (Fig. 5 and 5a)

8. The battery pack will become slightly warm to the touch while charging. This is normal and does not indicate a problem.
9. Do not place the battery charging stand / transformer in an area of extreme heat or cold. It will work best at normal room temperature.
10. When battery pack becomes fully charged, unplug battery charging stand / transformer from power supply and remove the battery pack.

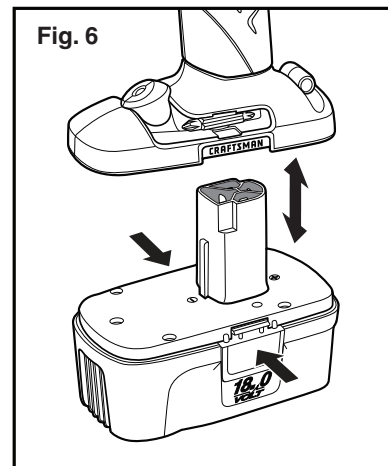
### CHARGING A HOT BATTERY PACK

When using your tool continuously, the batteries in your battery pack will become hot. You should let a hot battery pack cool down for approximately 30 minutes before attempting to recharge.

**NOTE:** A hot battery pack only occurs when prolonged continuous use of your drill/driver causes the batteries to become hot. It should not occur with typical use.

### INSTALLING THE BATTERY PACK IN DRILL / DRIVER (Fig. 6)

1. Place the **Forward / Reverse Selector Switch with Power Lock-Off** into the center position to lock the power off.
2. Place the battery pack in the drill, aligning the raised rib on battery pack with groove inside the drill.
3. Make sure the latches on each side of the battery pack "snap" into place, and the battery pack is secured in the drill / driver before beginning operation.

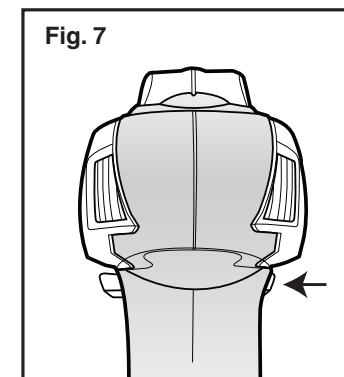


**CAUTION:** When placing battery pack in the tool, be sure raised rib on battery pack aligns with the bottom of the drill and latches into place properly. Improper installation of the battery pack can cause damage to internal components.

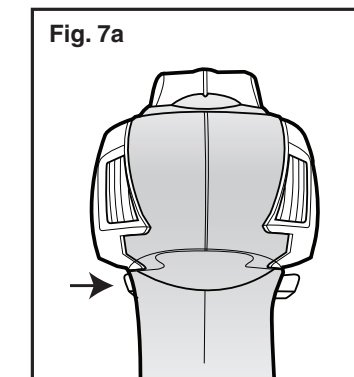
## OPERATION cont.

### TRIGGER SWITCH (Fig. 7 and 7a)

To turn the drill ON, push the Forward / Reverse Selector Switch with Power Lock-Off to the **FORWARD** or **REVERSE** location (see arrow direction embossed on switch), and depress the trigger switch. To turn the drill OFF, release the trigger switch.



FORWARD

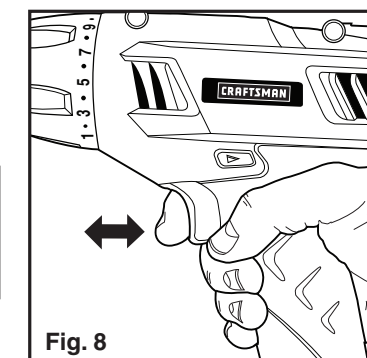


REVERSE

### VARIABLE SPEED (Fig. 8)

The variable speed trigger switch delivers **higher speed and torque** with increased pressure on the trigger switch and **lower speed and torque** with decreased pressure on the trigger switch.

**NOTE:** You might hear a whistling or ringing noise from the trigger switch when operating at low speeds. Do not be concerned; this is a normal part of the switch function.



**WARNING:** Cordless Battery Tools are always in operating condition when the battery pack is installed in the tool. Therefore the Forward / Reverse Selector Switch with Power Lock-Off should always be in the center position, locking the power off, when the tool is not in use or when you are carrying it at your side.

## OPERATION cont.

### ELECTRIC BRAKE

To stop the drill / driver, release the trigger switch and the electric brake will stop the chuck instantly. Ideal when driving screws, nuts and bolts.

**NOTE: The drill / driver will not operate unless the Forward / Reverse Selector Switch with Power Lock-Off is pushed fully to the left (forward) or to the right (reverse).**

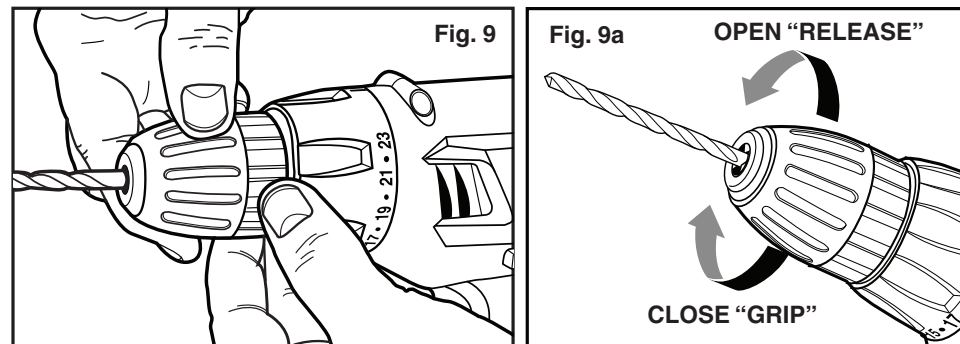
Avoid running the drill / driver at low speeds for extended periods of time. Running at low speeds under constant usage may cause the drill / driver to become overheated. If this occurs, cool the drill / driver by running it without a load and at full speed.

### KEYLESS CHUCK (Fig. 9 and 9a)

The drill / driver has a keyless chuck which allows you to hand tighten or loosen accessory bits without the use of a chuck key.

1. Grasp and hold the rear chuck collar with one hand (see Fig. 9).
2. Rotate the front of the chuck with your other hand, clockwise to CLOSE and counterclockwise to OPEN the chuck jaws (as viewed from the front of the chuck).

The front of the chuck also has embossed "pointing hands", indicating which direction to rotate the front of the chuck to GRIP (tighten) or RELEASE (loosen) the accessory bits in the chuck jaws (see Fig. 9a).



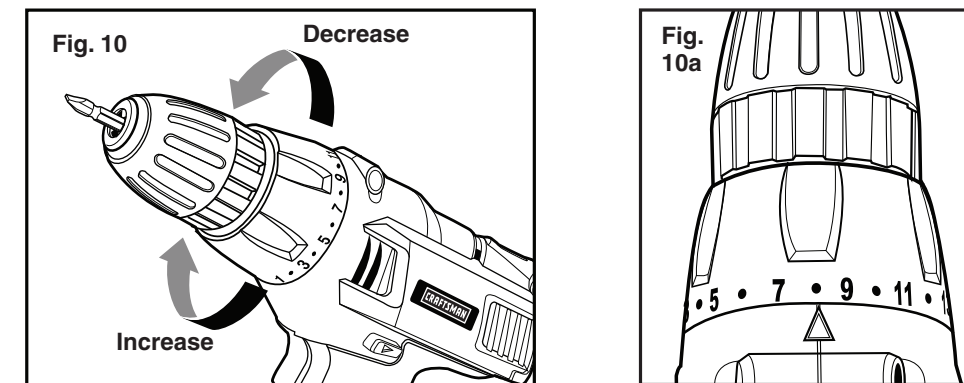
**⚠ WARNING: Do not hold the chuck body with one hand and use the power of the drill / driver to tighten the chuck jaws on the accessory bit. The chuck body could slip in your hand, or your hand could slip and come in contact with the rotating accessory bit. This could cause an accident resulting in serious personal injury.**

## OPERATION cont.

### 23 PLUS 1 ADJUSTABLE TORQUE CLUTCH (Fig. 10, 10a and 10b)


This drill / driver is equipped with an adjustable clutch that has 24 different torque settings. These torque settings allow you to efficiently perform various drilling and screw driving applications.


To adjust the clutch, hold the handle of the drill / driver with one hand and with the other hand turn the clutch collar to the left or right (see Fig. 10), and line the desired setting (number or symbol) up to the embossed arrow on the top of the drill / driver's motor housing (see Fig. 10a).



Use the following guidelines to arrive at a proper torque setting.

Fig. 10b

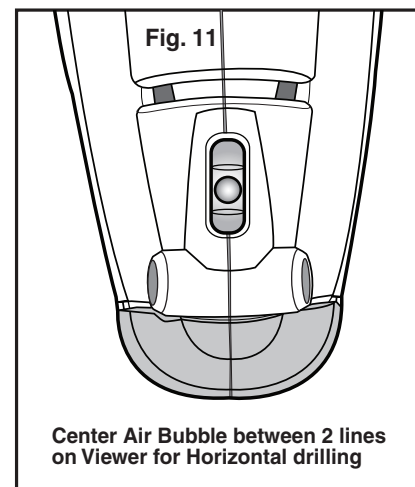
1 – 4	For driving small screws (least torque)
5 – 8	For driving screws into soft material
9 – 12	For driving screws into soft and hard materials
13 – 16	For driving screws in hard woods
17 – 23	For driving larger screws
	For normal to heavy twist drilling into all building materials (most torque)

1. For normal drilling in wood, metal and plastics, turn and set the collar to the drilling position symbol .
2. For screw driving, turn and set the collar to the desired setting 1 through 23. If you are not sure of the appropriate setting using the guidelines in the chart (Fig. 10b), above.
  - Set the collar to the lowest setting, "1"
  - Drive and tighten the first screw
  - If the clutch ratchets before the screw is tightened, increase the torque setting and continue to tighten the screw.
  - Repeat this process until you reach a torque setting that drives and tightens the screw without the clutch ratcheting.
  - Use that torque setting to drive and tighten the remaining screws.

## OPERATION cont.

### BUBBLE LEVEL (Fig. 11)

In order to insure a perfect right angle when drilling / driving into a workpiece, you can use the built-in bubble level on the top of the drill / driver (see Fig. 11). The bubble level is designed to work when drilling/driving in horizontal position. Center the air bubble between the two lines on the Level viewer as shown, and the drill / driver is in a perpendicular angle to the workpiece. This will insure that you drill/drive straight into the workpiece.

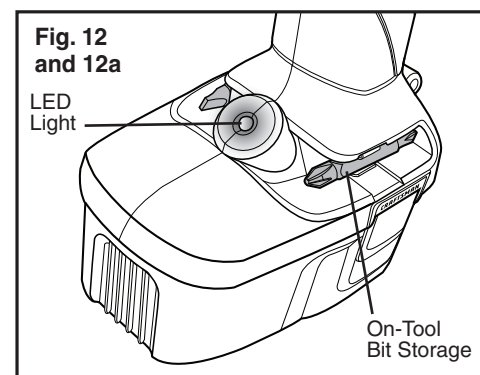


### LED LIGHT (Fig. 12)

Your drill/driver has an LED light that illuminates the drill/drive area for hands-free lighting in any application.

### ON-TOOL BIT STORAGE (Fig. 12a)

Your drill/driver comes with 2 double ended screwdriver bits that store on each side of the base.

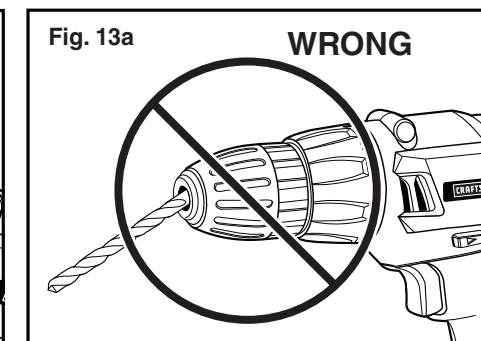
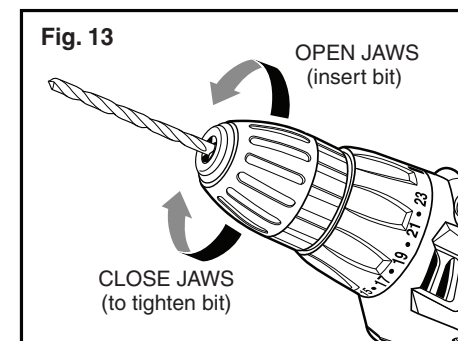


### INSTALLING ACCESSORY BITS (Figs.13 and 13a)

1. Lock the trigger switch Off by placing the Forward / Reverse Selector Switch with Power Lock-Off in the Center position.
2. Open or close the chuck jaws to a point where the opening is slightly larger than the bit size you intend to use. Also, raise the front of the drill slightly to keep the bit from falling out of the chuck jaws (see Fig. 13).
3. Insert the accessory bit.
4. Rotate the chuck clockwise to tighten (see Fig. 13). The chuck has an icon of a hand next to the word GRIP, pointing to the direction to grip, or tighten, the chuck jaws securely on the bit

## OPERATION cont.

### INSTALLING ACCESSORY BITS (Figs.13 and 13a) cont.

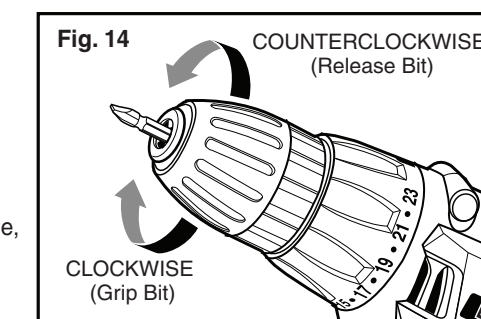


**WARNING:** Make sure to insert the accessory bit straight into the chuck jaws. Do not insert the accessory bit into the chuck jaws at an angle then tighten, as shown in Figure 13a. This could cause the bit to be thrown from the drill, resulting in possible serious personal injury or damage to the chuck.

**NOTE:** Rotate the chuck body in the direction of the hand pointing next to word GRIP to tighten the chuck jaws. DO NOT use a wrench to tighten or loosen the chuck jaws.

### REMOVING BITS (Fig. 14)

1. Lock the trigger switch Off by placing the Forward / Reverse Selector Switch with Power Lock-Off in the Center position.
2. Rotate the chuck sleeve counterclockwise to open the chuck jaws. The chuck has an icon of a pointing hand next to the word RELEASE, showing the direction to release, or loosen, the chuck jaws around the bit.
3. Remove the accessory bit.



**NOTE:** Rotate the chuck body in the direction of the hand pointing next to word RELEASE to loosen the chuck jaws. DO NOT use a wrench to tighten or loosen chuck jaws.

## OPERATION cont.

### OPERATION AS A DRILL (Fig. 15)

Turn and set the torque clutch collar to the drilling position symbol . Install and tighten the desired drill bit into the chuck.

1. Install the battery pack into the drill / driver.
2. Push the forward/reverse selector switch with power lock-off to the forward position.
3. For drilling in WOOD, use twist drill bits, spade bits and auger bits.
4. For drilling in METAL, use high speed twist drill bits. Use a cutting lubricant when drilling in metals. The exceptions are cast iron and brass, which should be drilled dry.
5. For drilling in MASONRY, use carbide tipped bits or masonry bits. A smooth, even flow of dust indicates the proper drilling speed.
6. Always apply pressure in a straight line with the bit. If necessary, use the bubble levels to drill straight into the workpiece. Use enough pressure to keep the bit biting, but do not push hard enough to stall the motor or deflect the bit.
7. Hold drill / driver firmly to control the twisting action of the drill / driver.
8. Move the drill bit into the workpiece, applying only enough pressure to keep the bit cutting. Do not force the drill or apply side pressure to elongate a hole. Let the tool do the work.
9. When drilling hard, smooth surfaces, use a center punch to mark the desired hole location. This will prevent the drill bit from slipping off-center as the hole is started.
10. If the drill/driver stalls, or the bit jams in the workpiece, it is usually because the drill / driver is being overloaded. **RELEASE TRIGGER SWITCH IMMEDIATELY** and remove bit from workpiece. Determine cause of stalling. **DO NOT PRESS TRIGGER OFF AND ON IN AN ATTEMPT TO START A STALLED DRILL / DRIVER – THIS COULD DAMAGE THE DRILL / DRIVER.**
11. Keep the motor running when pulling the bit back out of a drilled hole. This will help prevent jamming.

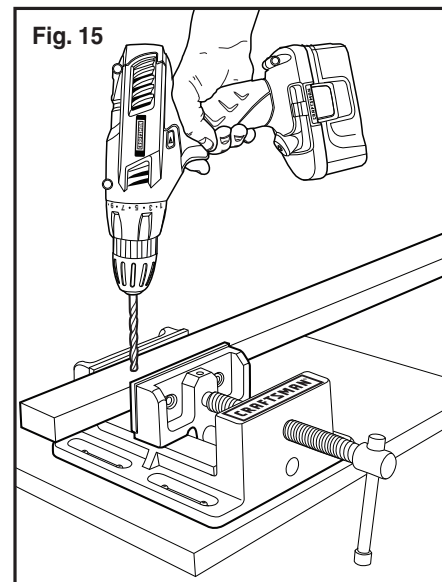


Fig. 15

**⚠ WARNING:** Be prepared for binding at bit breakthrough. When these situations occur, drill / driver has a tendency to grab and kick opposite to the direction of rotation and could cause loss of control when breaking through material. If not prepared, this loss of control could result in possible serious injury.

**NOTE:** This drill / driver has an electric brake. When the trigger switch is released, the chuck stops turning instantly. When the brake is functioning properly, sparks will be visible through the vent slots on the housing. This is normal and is the action of the brake.

## OPERATION cont.

### OPERATION AS A SCREWDRIVER (Fig. 16)

Turn and set the torque clutch collar to the desired torque setting, 1 through 23. Install and tighten the desired fastener accessory bit into the chuck.

1. Install the battery pack into the drill / driver.
2. Push the forward / reverse selector switch to the forward position.
3. Set the collar to the lowest setting, "1"
4. Drive and tighten the first screw
5. If the clutch ratchets before the screw is tightened, increase the torque setting and continue to tighten the screw.
6. Repeat this process until you reach a torque setting that drives and tightens the screw without the clutch ratcheting.
7. Use that torque setting to drive and tighten the remaining screws.
8. To remove fasteners, push forward / reverse selector switch to the reverse position.

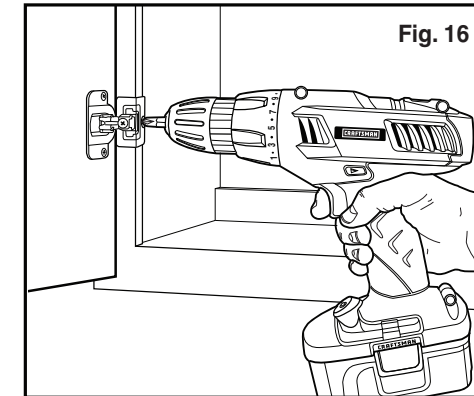


Fig. 16

## 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.

## MAINTENANCE

### GENERAL MAINTENANCE

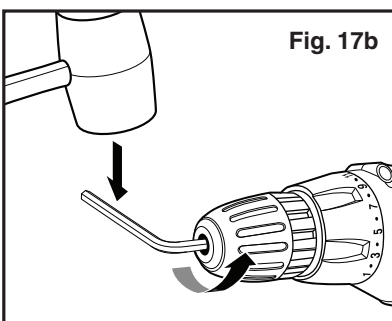
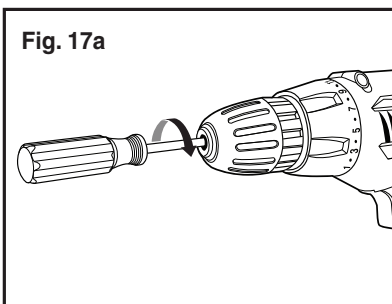
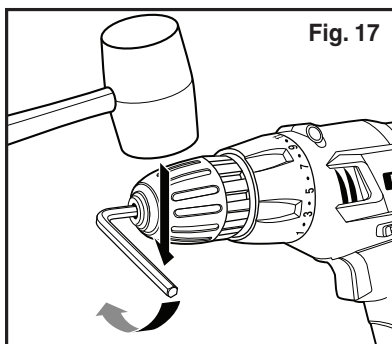
Avoid using solvents when cleaning plastic parts. Most plastics are susceptible to damage from various types of commercial solvents and may be damaged by their use. Use clean cloths to remove dirt, dust, oil and grease, etc.

**⚠ 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.

### CHUCK REMOVAL (Figs. 17, 17a and 17b)

The chuck may be removed and replaced by a new one.

1. Lock the trigger switch by placing the Forward / Reverse Selector Switch with Power Lock-Off in center, or OFF position.
2. Insert a 5/16-in. or larger hex key into the jaws of the chuck and tighten the chuck jaws securely.
3. Tap the hex key sharply with a mallet in a clockwise direction (see Fig. 17). This will loosen the screw in the chuck for easy removal.
4. Open the chuck jaws and remove the hex key. Using a screwdriver, remove the chuck screw by turning it in a clockwise direction (Fig. 17a). Note that the chuck screw has left hand threads and clockwise direction loosens instead of tightens.
5. Insert the hex key back into the chuck and tighten the chuck jaws securely. Tap sharply with a mallet in a counterclockwise direction (see Fig. 17b). This will loosen the chuck on the spindle. It can now be unscrewed and removed by hand.



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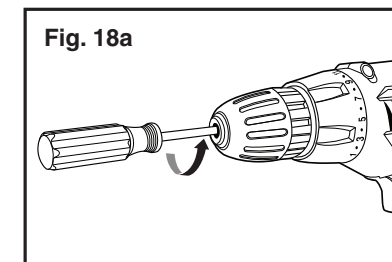
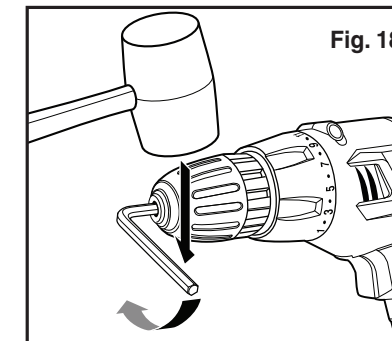
## MAINTENANCE

### TO RETIGHTEN A LOOSE CHUCK (Figs. 18 and 18a)

The chuck may become loose on the spindle and develop a wobble. Also, the chuck screw may become loose, causing the chuck jaws to bind and prevent them from closing.

To tighten:

1. Lock the trigger switch by placing the Forward / Reverse Selector Switch with Power Lock-Off in the center, or OFF position.
2. Open the chuck jaws.
3. Insert a 5/16 in. or larger hex key into the chuck and tighten the chuck jaws securely. Tap the hex key sharply with a mallet in a clockwise direction. This will tighten the chuck on the spindle (see Fig. 18).
4. Open the chuck jaws, and remove the hex key.
5. Tighten the chuck screw. Note that the chuck screw has left hand threads and counterclockwise direction tightens instead of loosens (see Fig. 18a).



## ACCESSORIES

**⚠ WARNING:** The use of attachments or accessories that are not recommended for this tool might be dangerous and could result in serious injury.

Sears and other Craftsman® outlets offer a large selection of Craftsman drill / driver accessories designed for all your drill / driving applications.

You may purchase kits and sets specifically for drilling and driving, twist drill bit sets, a variety of power drill / driving bit sets, spade bit sets, carbide-tipped masonry drill bit sets, extra long bits, magnetic bit holders and more.

Visit your local Sears store or other Craftsman outlets or shop [sears.com/craftsman](http://sears.com/craftsman) for all of the accessories for your drill / driver.

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## ACCESSORIES cont.

### BATTERIES

The battery pack for this tool is equipped with nickel-cadmium rechargeable batteries. Length of service from each charging will depend on the type of work you are doing.

The batteries in this tool 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:

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

For battery storage longer than 30 days:

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

See parts list or page 6 table for correct battery pack number for additional battery packs. Order through Sears parts and repair call 1-800-4-MY-HOME

### BATTERY PACK REMOVAL AND PREPARATION FOR RECYCLING

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

This product contains nickel-cadmium batteries. Local, state or federal laws may prohibit disposal of nickel-cadmium batteries in ordinary trash.

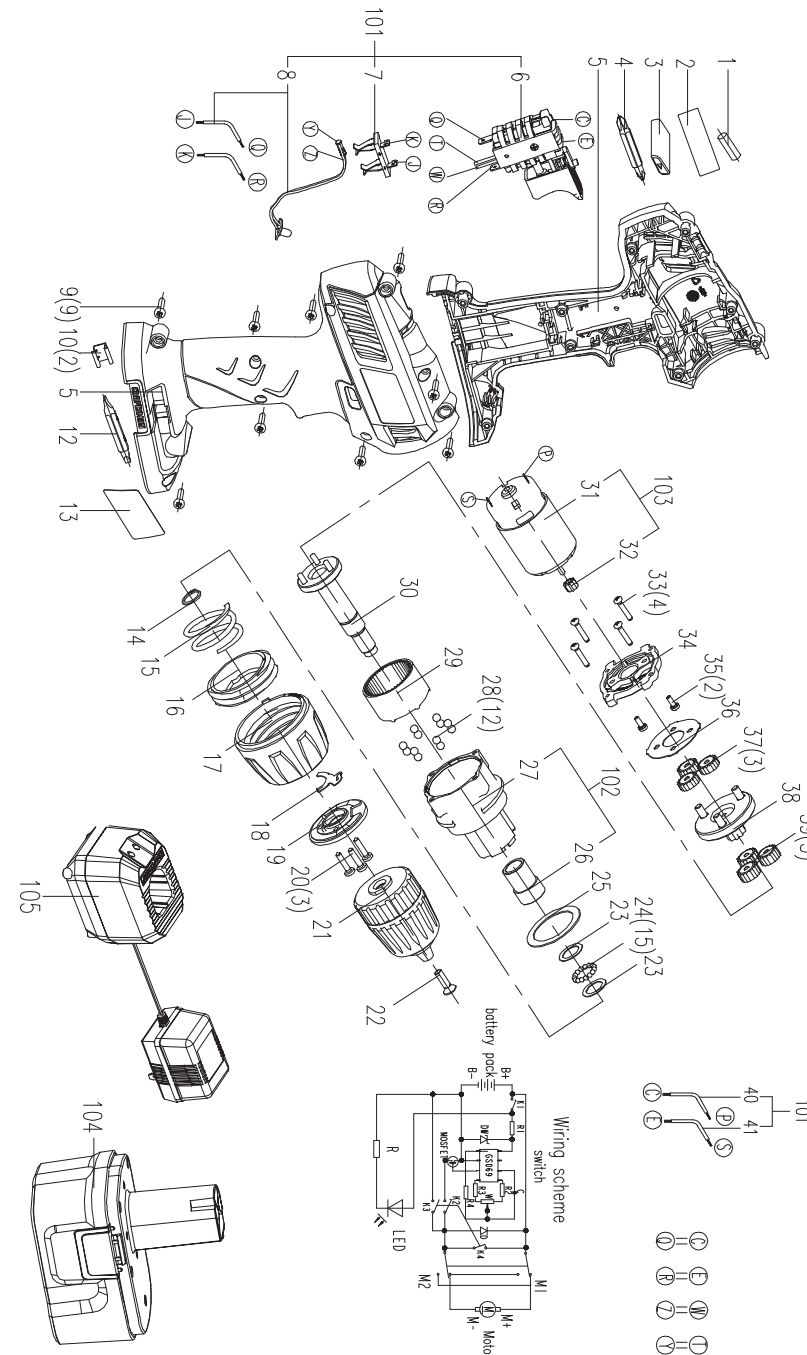
Consult your local waste authority for information regarding available recycling and / or disposal options.

**⚠ 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. 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.



## PARTS LIST

### 3/8-IN. VARIABLE SPEED / REVERSIBLE CORDLESS DRILL / DRIVER Model No. 172.64120 18.0 Volt (in Kit 172.11518)





**PARTS LIST cont.****3/8-IN. VARIABLE SPEED / REVERSIBLE CORDLESS DRILL / DRIVER  
Model No. 172.64120 18.0 Volt (in Kit 172.11518)**

Item No.	Parts No.	Part Description	Qty.
1	CDT118GU-1	Bubble Level	1
2	CDT118GU-2	Brand Label	1
3	CDT118GU-3	F/R Button	1
4	CDT118GU-4	Driving Bit Ph1/Ph2	1
5	CDT118GU-5	Left & Right Housing	1
101	CDT118GU-101	Motor Switch Unit	1
6	CDT118GU-6	Switch	1
7	CDT118GU-7	Terminal	1
8	CDT118GU-8	Power Supply Board	1
40	CDT118GU-40	Inter Wire	1
41	CDT118GU-41	Inter Wire	1
9	CDT118GU-9	Self Tapping Screw St3.5x18	9
10	CDT118GU-10	Disc Spring	2
12	CDT118GU-12	Driving Bit S2/6	1
13	CDT118GU-13	Reted Label	1
14	CDT118GU-14	Retaining Ring12	1
15	CDT118GU-15	Spring	1
16	CDT118GU-16	Clutch Setting Sleeve	1
17	CDT118GU-17	Clutch Cap	1
18	CDT118GU-18	Disc Spring	1
19	CDT118GU-19	Bearing Cover	1
20	CDT118GU-20	Self Tapping Screw St3.5x16	3
21	CDT118GU-21	Chuck	1
22	CDT118GU-22	Screw M5 Left X16	1
23	CDT118GU-23	Washer	2
24	CDT118GU-24	Steel Ball ?3	15
25	CDT118GU-25	Washer	1
102	CDT118GU-102	Fore Housing Asm	1
26	CDT118GU-26	Fore Housing	1
27	CDT118GU-27	Bearing	1
28	CDT118GU-28	Steel Ball ?5	12
29	CDT118GU-29	Ring Gear	1
30	CDT118GU-30	Output Shaft Set	1
103	CDT118GU-103	Motor Unit	1
31	CDT118GU-31	Motor	1
32	CDT118GU-32	Pinion	1
33	CDT118GU-33	Self Tapping Screw St2.9x16	4
34	CDT118GU-34	Adapter Ring	1
35	CDT118GU-35	Screw Washer Asm M3x8	2
36	CDT118GU-36	Washer	1
37	CDT118GU-37	Planetary Gear I	3
38	CDT118GU-38	Planet Carrier	1
39	CDT118GU-39	Planetary Gear li	3
104	CDT118GU-104	Battery Pack	1
105	CDT118GU-103	Charger	1

**NOTES**

## NOTES

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