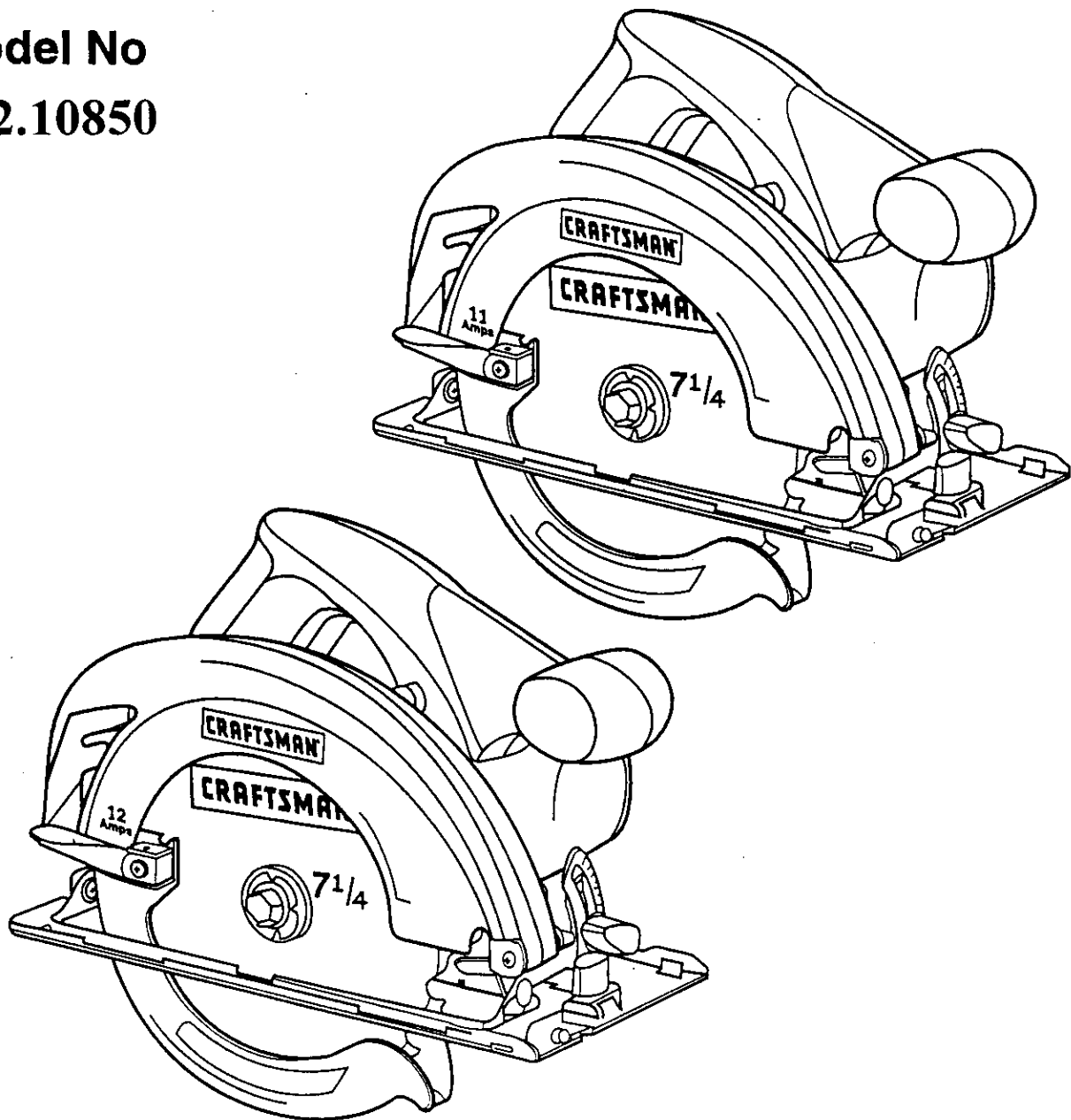


CRAFTSMAN®

7¹/₄-in. CIRCULAR SAWS

Model No
172.10850



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

- SAFETY
- OPERATION
- MAINTENANCE
- ESPAÑOL

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

TABLE OF CONTENTS

Warranty.....	Page 2
Safety Instructions.....	Pages 3-10
Safety Symbols.....	Page 10
Description.....	Page 11
Assembly.....	Pages 12-13
Operation.....	Pages 14-22
Maintenance.....	Pages 23-24
Accessories.....	Page 24
Parts List.....	Pages 25-28
Repair Service, Maintenance Agreement Phone Numbers.....	Page 30

FULL ONE YEAR WARRANTY ON CRAFTSMAN CIRCULAR SAW

If this CRAFTSMAN Circular Saw fails to give complete satisfaction within one year from the date of purchase, **RETURN IT TO THE NEAREST SEARS STORE IN THE UNITED STATES**, and Sears will replace it, free of charge.

If this CRAFTSMAN Circular Saw 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., Dept. 817 WA, Hoffman Estates, IL 60179

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

SAFETY INSTRUCTIONS




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

WORK AREA SAFETY

1. **ALWAYS** keep your work area clean and well lit. Cluttered benches 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. **ALWAYS** keep bystanders, children, and visitors away while operating a power tool. Distractions can cause you to lose control.

ELECTRICAL SAFETY

1. Double insulated tools are equipped with a polarized plug (one blade is wider than the other.) This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install a polarized outlet. Do not change the plug in any way.
2. Double insulation  eliminates the need for the three-wire grounded power cord and grounded power supply system. Applicable only to Class II (double insulated) tools.
3. Before plugging in the tool, **BE SURE** that the outlet voltage supplied is within the voltage marked on the tool's data plate. **DO NOT** use "AC only" rated tools with a DC power supply.
4. **ALWAYS** avoid body contact with grounded surfaces, such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is grounded.
5. If operating the power tool in damp locations is unavoidable, **ALWAYS** use a Ground Fault Circuit Interrupter to supply power to your tool. **ALWAYS** wear electrician's rubber gloves and footwear in damp conditions.
6. **DO NOT** expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
7. **DO NOT** abuse the cord. **NEVER** use the cord to carry the tools or pull the plug from the outlet. Keep cord away from heat, oil, sharp edges or moving parts. Replace damaged cords immediately. Damaged cords increase the risk of electric shock.

SAFETY INSTRUCTIONS cont.

ELECTRICAL SAFETY cont.

8. When operating a power tool outside, **ALWAYS** use an outdoor extension cord marked "W-A" or "W". These cords are rated for outdoor use and reduce the risk of electric shock.

NOTE: The extension cord must have adequate wire size AWG (American Wire Gauge) for safe, efficient use. Smaller gauge wires, have greater capacity (16 gauge wire has more capacity than 18 gauge wire).

Minimum Gauge for Extension Cords (AWG)				
Volts	Total Length of Cord in Feet			
120V	0 - 25 ft.	26 - 50 ft.	51 - 100 ft.	101 - 150 ft.
Ampere Rating	AWG	AWG	AWG	AWG
More than 0 Not more than 6	16	16	16	14
More than 6 Not more than 10	16	16	14	12
More than 10 Not more than 12	16	16	14	12
More than 12 Not more than 16	14	12	Not Recommended	


PERSONAL SAFETY

1. **ALWAYS** stay alert, watch what you are doing and use common sense when operating a power tool. **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.
2. **ALWAYS** dress properly. **DO NOT** wear loose clothing or jewelry. Pull back long hair. Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts.
3. **ALWAYS** avoid accidental starting. **BE SURE** switch is "Off" before plugging in. Carrying tools with your finger on the switch or plugging in tools that have the switch in the "On" position invites accidents.
4. **ALWAYS** remove adjusting keys or wrenches before turning the tool "On". A wrench or a key that is left attached to a rotating part of the tool may result in personal injury.
5. **DO NOT** overreach. **ALWAYS** keep proper footing and balance at all times. Proper footing and balance enables better control of the tool in unexpected situations.
6. **ALWAYS** use safety equipment. Always wear eye protection. Dust mask, non-skid safety shoes, hardhat, or hearing protection must be used for appropriate conditions.

SAFETY INSTRUCTIONS cont.

TOOL USE AND CARE SAFETY

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 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 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. **ALWAYS disconnect the plug from the power source before making any adjustments, changing accessories, or storing the tool.** Such preventive safety measures reduce the risk of starting the tool accidentally.
5. **ALWAYS store idle tools out of reach of children and other untrained persons.** Tools are dangerous in the hands of untrained users.
6. **ALWAYS 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.
7. **ALWAYS 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.

 **WARNING:** USE OF ACCESSORIES THAT ARE NOT RECOMMENDED FOR USE WITH THIS TOOL MAY CREATE A HAZARDOUS CONDITION.

8. **ALWAYS 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.

SERVICE SAFETY

1. **Tool service MUST BE performed only by Sears or other qualified repair personnel.** Service or maintenance performed by unqualified personnel could result in a risk of injury.
2. **When servicing a tool, ALWAYS 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 INSTRUCTIONS cont.

SAFETY RULES FOR 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, they cannot be cut by the blade.

- 1. ALWAYS keep your body positioned to either side of the saw blade, but not in 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 7-8).
- 2. DO NOT reach underneath the work.** The guard cannot protect you from the blade beneath the work.
- 3. ALWAYS 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 handle. Make sure that it moves freely and does not touch the blade or any other part in all angles and depths of cut.
- 4. ALWAYS 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.
- 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 the handle. 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 work properly in order to minimize body exposure, blade binding, or loss of control.
- 8. ALWAYS hold tool by insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring or its own cord.** Contact with a "live" wire will make the exposed metal parts of the tool "live" and shock the operator.
- 9. 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.
- 10. 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 will cause loss of control.

SAFETY INSTRUCTIONS cont.

SAFETY RULES FOR CIRCULAR SAWS cont.

11. **ALWAYS BE SURE** that all adjusting screws and the blade holder are fastened tightly **BEFORE** making a cut. Loose adjusting screws and holders can cause the tool or blade to slip and loss of control may result.
12. When removing the blade from the tool, **ALWAYS** avoid contact with skin and **ALWAYS** wear protective gloves when grasping the blade or accessory. Accessories may be hot after prolonged use.

KICKBACK...WHAT CAUSES IT AND WAYS TO PREVENT IT

The Causes of Kickback

1. Kickback is a sudden reaction to a pinched, bound or misaligned saw blade, which causes the uncontrolled saw to lift up and out of the workpiece and towards 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. Kickback is a result of tool misuse and/or incorrect operating procedures or conditions. It can be avoided by taking the proper precautions, as listed below.

Ways to Prevent Kickback

1. **ALWAYS** maintain a firm grip with both 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. **ALWAYS** check and be ready to take corrective action to eliminate the cause of blade binding.
3. When restarting the saw in the workpiece, **ALWAYS** 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.
4. **ALWAYS** support large panels to minimize the risk of blade pinching and **KICKBACK**. Large panels tend to sag under their own weight. Supports **MUST** be placed under the panel on both sides, near the line of cut and near the edge of the panel.

SAFETY INSTRUCTIONS cont.

Ways to Prevent Kickback cont.

5. **DO NOT use a dull or damaged blade.** Unsharpened or improperly set blades produce narrow kerf which causes excessive friction, blade binding and KICKBACK.
6. **ALWAYS 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.
7. **ALWAYS 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.
8. **ALWAYS have saw blade at full speed before contacting workpiece.**

ALWAYS hold tool by insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring or its own cord. Contact with a "live" wire will make the exposed metal parts of the tool "live" and shock the operator.

ADDITIONAL RULES FOR SAFE OPERATION



WARNING: BE SURE to read and understand all instructions. Failure to follow all instructions listed below 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 saw. Everyday eyeglasses have only impact-resistant lenses; they are NOT safety glasses.** Following this rule will reduce the risk of serious personal injury.
3. **ALWAYS protect your lungs. Wear a face mask or dust mask if the operation is dusty.** Following this rule will reduce the risk of serious personal injury.
4. **ALWAYS protect your hearing. Wear hearing protection during extended periods of operation.** Following this rule will reduce the risk of serious personal injury.
5. **ALWAYS inspect the tool cords periodically and if damaged have them repaired at your nearest Sears Service Center or other Authorized Service Facility. ALWAYS be aware of the cord location.** Following this rule will reduce the risk of electric shock or fire.

SAFETY INSTRUCTIONS cont.

ADDITIONAL RULES FOR SAFE OPERATION cont.

6. **ALWAYS** check 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. Following this rule will reduce the risk of electric shock, fire or serious injury.
7. **DO NOT** abuse the cord. **NEVER** use the cord to carry the tool or pull the plug from the outlet. Keep cord away from heat, oil, sharp edges or moving parts. Replace damaged cords immediately. Damaged cords increase the risk of electric shock. Following this rule will reduce the risk of electric shock or fire.
8. **ALWAYS** make sure that your extension cord is in good condition. When using an extension cord be sure to use one that is heavy enough to carry the current that your tool will draw. A wire gauge size (A.W.G.) of at least 16 is recommended for an extension 100 feet or less in length. Using an extension cord that is over 100 feet in length is not recommended. If in doubt, use the next heavier gauge. Smaller gauge wires, have greater capacity (16 gauge wire has more capacity than 18 gauge wire). An undersized cord will cause a drop in line voltage, resulting in loss of power and overheating.
9. **ALWAYS** inspect and remove all nails from lumber before sawing. Following this rule will reduce the risk of serious personal injury.
10. **DO NOT** use the tool while tired or under the influence of drugs, alcohol or any medication. Following this rule will reduce the risk of electric shock, fire or serious personal injury.
11. **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.



WARNING: The operation of any circular saw 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 Retail Stores.

SAFETY INSTRUCTIONS cont.

ADDITIONAL RULES FOR SAFE OPERATION cont.

⚠ WARNING: Some dust particles created by power sanding, sawing, grinding, drilling and other construction jobs contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints.
- Crystalline silica from bricks and cement and other masonry products.
- 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.

The label on your tool may include the following symbols.

- V.....Volts
- A.....Amperes
- Hz.....Hertz
- W.....Watts
- min.....Minutes
- ~.....Alternating current
- =—.....Direct current
- noNo-load speed
- ☐Class II construction
- .../min.....Revolutions or Strokes per minute
- ⚠Indicates danger, warning or caution.
It means attention! Your safety is involved.

IMPORTANT! READ ALL INSTRUCTIONS

PRODUCT SPECIFICATIONS	
Horsepower	1 ³ / ₄
Input	10 Amps
Blade Diameter	7 1/4 in. (184mm)
Blade Arbor	5/8-in. (16mm)
Cutting Depth at 90	27/16 in. (61.97mm)
Cutting Depth at 45	1 ¹³ / ₁₆ in. (47.24mm)
Rating	120 volts, 60 Hz AC
No-load Speed	4800 RPM

DESCRIPTION

Before attempting to use any tool, be sure to familiarize with all the operating features and safety instructions.

⚠ WARNING: DO NOT let familiarity with your saw make you careless. Remember that a careless fraction of a second is sufficient to cause severe injury.

KNOW YOUR SAW (See Fig. 1)

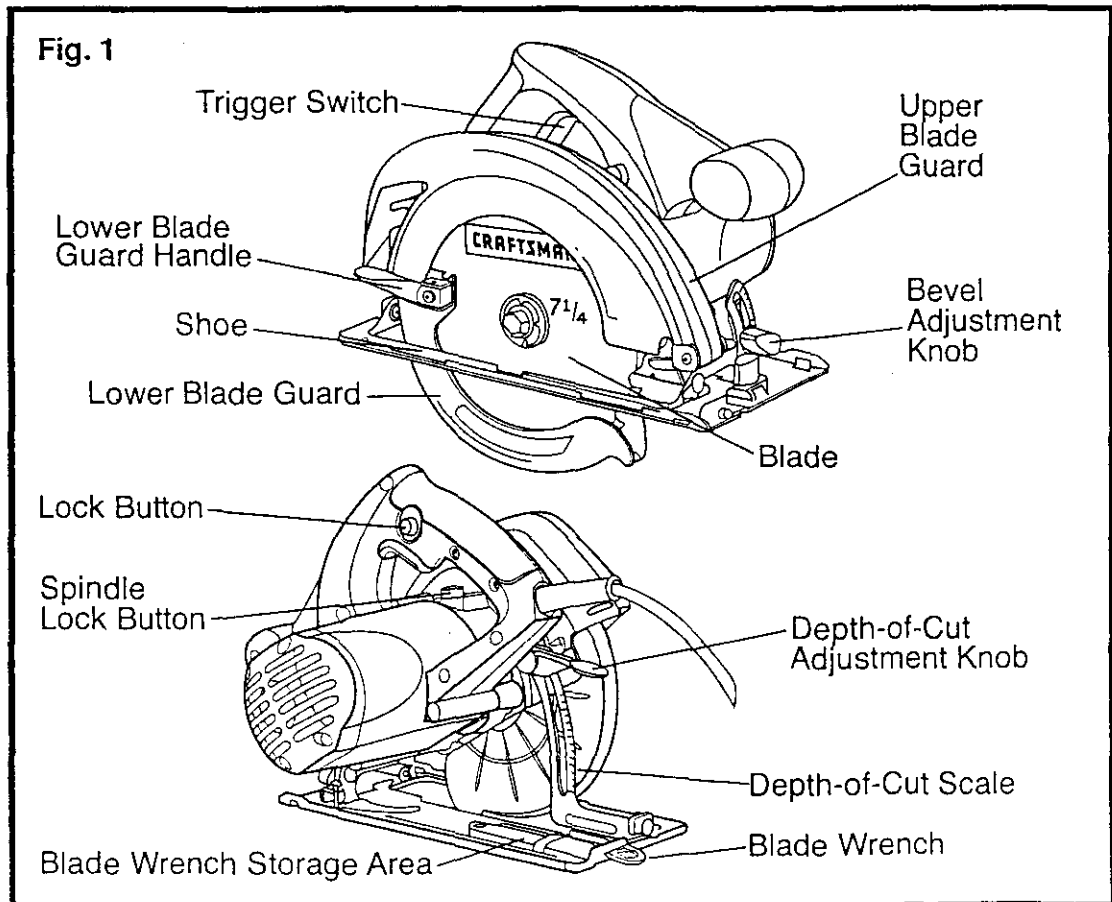
Your circular saw has many built-in convenience features for fast, efficient cutting. These features include easy to operate adjustments for depth-of-cut and bevel cutting.

Electrical Connection

Your circular saw has a precision-built electric motor and it should only be connected to a 120-volt, 60-Hz. power supply (normal household current). **DO NOT** operate on direct current (DC). This large voltage drop will cause a loss of power that will overheat the motor. If your saw does not operate when plugged into an outlet, check the power supply.

Trigger Switch


To turn on the saw, push lock button with your thumb, then squeeze trigger switch. Release switch to shut it off.



ASSEMBLY


UNPACKING


Your circular saw has been shipped completely assembled, except for the blade, which is packed unassembled. Inspect the saw carefully to make sure that no breakage or damage has occurred during shipping. If any parts are damaged or missing, return the saw to your nearest Sears Store to have it replaced.

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

MOUNTING THE BLADE TO SAW

Carefully remove the blade from its packing and thoroughly inspect it to be sure that it is not cracked or damaged.

 **WARNING:** Your saw should **NEVER** be connected to the power source when you are assembling parts, making adjustments, installing or removing blades, cleaning or when it is not in use. Disconnecting the saw will prevent accidental starting, which could cause serious personal injury.

 **WARNING:** A 7 1/4-in. blade is the maximum blade capacity for your saw. **NEVER** use a blade that is too thick to allow the outer blade washer to engage with the flat side of the spindle. Larger blades will come into contact with the blade guards, and thicker blades will prevent the blade screw from securing the blade on the spindle. Either of these situations could result in serious personal injury.

Your saw has a spindle lock button for locking the spindle on your saw in a stationary position. Push and hold the spindle lock button when mounting, changing or removing the blade.

1. Remove blade wrench from shoe.
2. Place saw on its side on a flat surface.
3. Use blade wrench to loosen blade screw by turning it in a counterclockwise direction. Completely remove blade screw (See Fig. 2).
4. Remove outer "D" washer (See Fig. 2).
5. The part remaining is the inner bushing (See Fig. 2). It does not need to be removed.
6. Wipe a drop of oil onto the inner bushing and outer "D" washer where they will touch blade.
7. Place the saw blade inside the lower blade guard, onto the spindle and against the inner bushing (See Fig. 2).

NOTE: The teeth of the blade should point upward at the front of the saw as shown in Fig. 2.

8. Place saw on the edge of a flat surface so the blade is not in contact with anything.

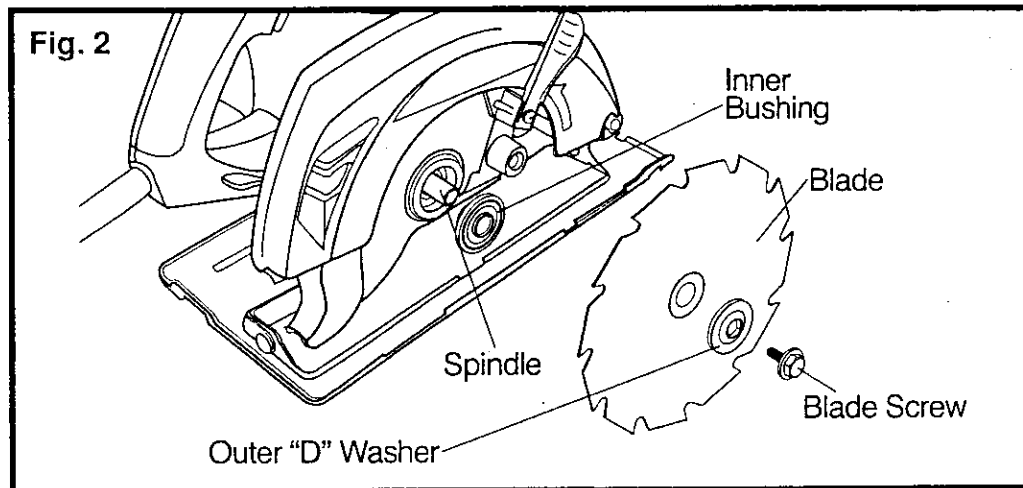
ASSEMBLY cont.

MOUNTING THE BLADE TO SAW cont.

9. Raise lower blade guard using the blade guard handle and hold it in the raised position for the next steps.
10. Replace the "D" washer (See Fig. 2).
11. Firmly hold down spindle lock button as you replace blade screw and hand tighten it in a clockwise direction (See Fig. 2). Then use blade wrench to tighten blade screw thoroughly.
12. Place blade wrench back in shoe.

NOTE: Always place angled portion of blade wrench upwards.

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



REMOVING THE BLADE

1. Unplug the saw.

WARNING: Failure to unplug the saw could result in accidental starting causing possible serious personal injury.

2. Raise the lower blade guard using the guard handle, hold down the spindle lock button.
3. Follow Steps 1 through 4 on Mounting Blade to Saw.
4. Carefully remove blade.

OPERATION

SAW BLADES

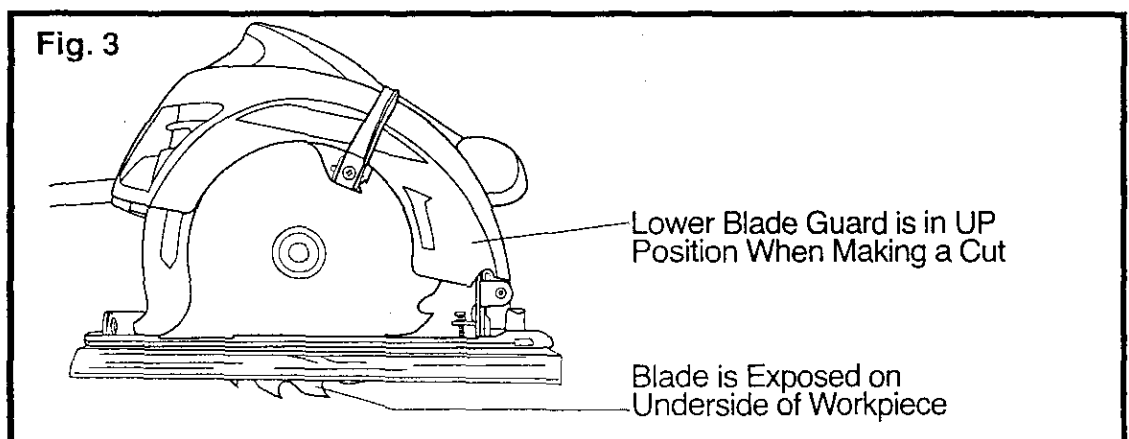
All saw blades need to be kept clean, sharp and properly set in order to cut efficiently. Using a dull blade places a heavy load on the saw and increases the danger of kickback. Keep extra blades on hand, so sharp blades are always available. Gum and wood pitch hardened on the blade slows the saw down.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

BLADE GUARD SYSTEM

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.

⚠ DANGER: When sawing through a workpiece, the lower blade guard does not cover the blade on the underside of the workpiece. Since the blade is exposed on the underside of the workpiece, **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 (see Fig. 3).

⚠ 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 setting 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 does not close freely, take it to your nearest Sears Repair Center for service before using it.



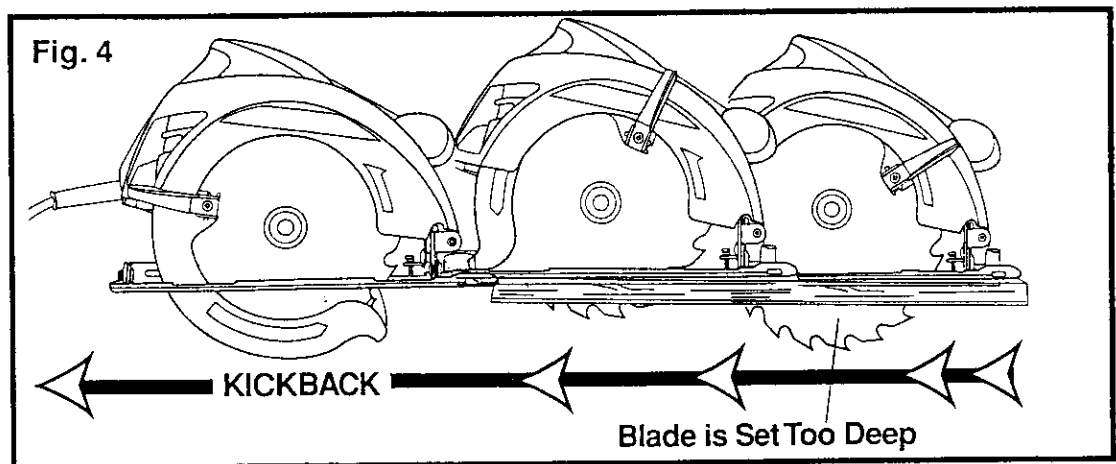
OPERATION cont.

KICKBACK

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

IMPORTANT: The best guard against kickback is to avoid dangerous practices.

⚠ 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.

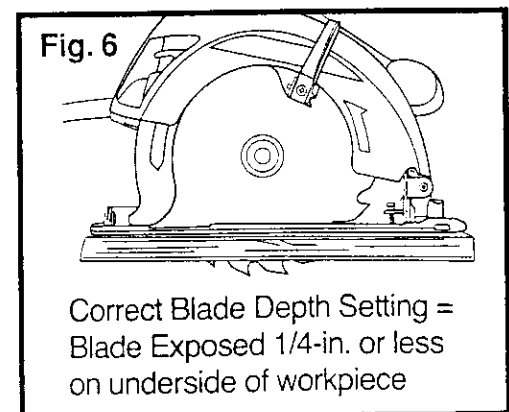
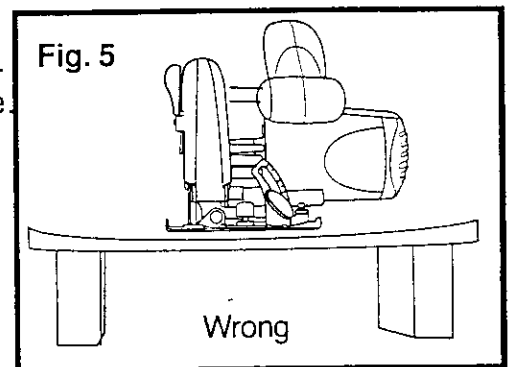


Kickback is Caused By:

1. Incorrect Blade Depth Setting (See Fig. 4).
2. Sawing into knots or nails in the workpiece.
3. Twisting the blade while making a cut.
4. Making a cut with a dull, gummed up, or improperly set blade.
5. Not providing proper support for workpiece (See Fig. 5).
6. Forcing a cut.
7. Cutting warped or wet lumber.
8. Tool misuse or incorrect operating procedures.
8. Contacting the workpiece with blade at less than full speed.

To Lessen the Chance of Kickback:

1. **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 to be cut (see Fig. 6).

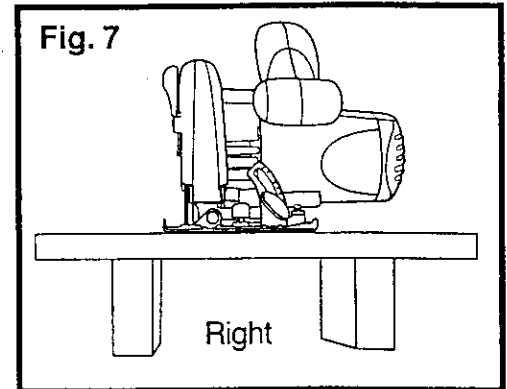


OPERATION cont.

To Lessen the Chance of Kickback: cont.

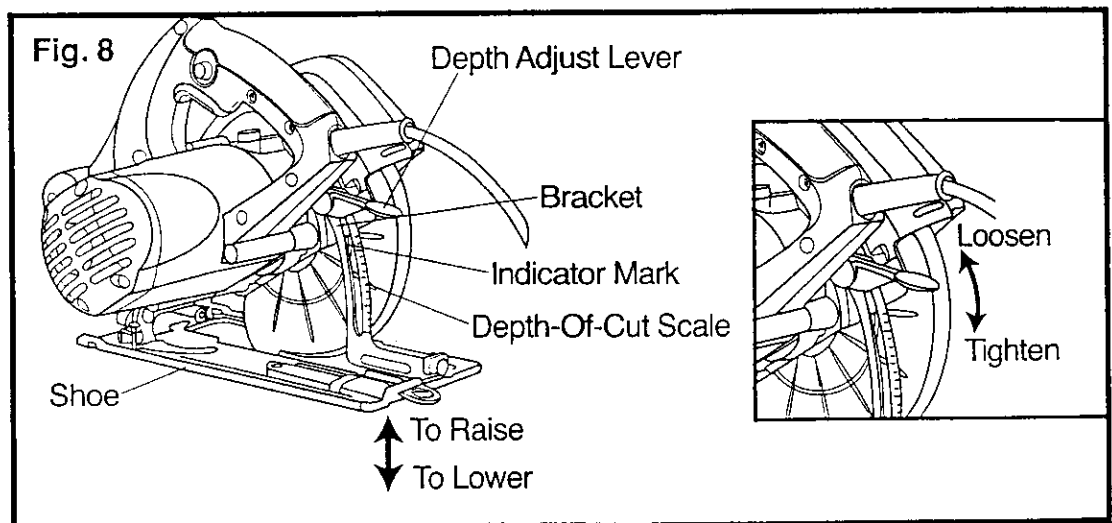
2. **ALWAYS** inspect the workpiece for knots or nails **BEFORE** beginning to cut. **NEVER** saw into a knot or nail.
3. Make straight cuts. **ALWAYS** use a straight edge guide when rip cutting. This will help prevent twisting the blade in the cut.
4. **ALWAYS** use clean, sharp and properly set blades. **NEVER** make cuts with dull blades.
5. **ALWAYS** properly support the workpiece before beginning a cut. This will help you avoid pinching the blade. The right and wrong ways to support large workpieces are shown in Figures 5 and 7.
6. **ALWAYS** use steady, even pressure when making a cut. **NEVER** force the cut.
7. **DO NOT** cut wet or warped lumber.
8. **ALWAYS** hold the saw firmly with both hands and keep your body in a balanced position. This will help you resist the forces of kickback, should it occur.

IMPORTANT: When using your saw, **ALWAYS** stay alert and exercise control. **DO NOT** remove your saw from the workpiece, while the blade is moving.



DEPTH-OF-CUT ADJUSTMENT

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. 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 on the upper blade guard that will provide increased depth-of-cut accuracy (See Fig. 8).



OPERATION cont.

TO ADJUST BLADE DEPTH

1. Unplug the saw.

⚠ WARNING: Failure to unplug the saw could result in accidental starting causing possible serious personal injury.

2. Loosen Knob (See Fig. 8).
3. Determine the desired depth of cut.
4. Locate the depth-of-cut scale on the back of the upper blade guard.
5. Hold the base of saw flat against the workpiece and then raise or lower the saw until the indicator mark on the bracket aligns with the notch on the blade guard.
6. Tighten the knob securely.

STARTING A CUT

1. **ALWAYS** use your saw with your hands positioned correctly (See Fig. 9).

⚠ 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.

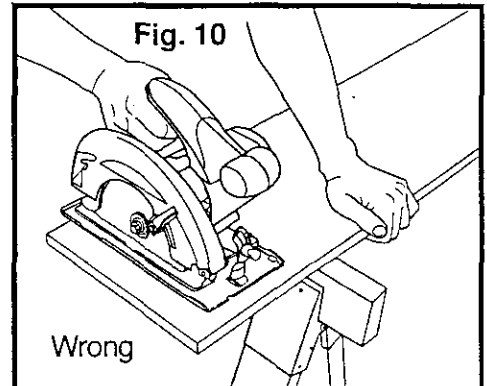
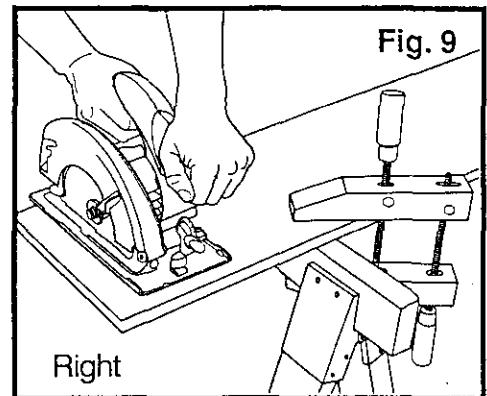
NEVER use the saw with your hands positioned as shown in Fig. 10!

TO HELP MAINTAIN CONTROL

1. **ALWAYS** support the workpiece near the cut.
2. **ALWAYS** support the workpiece so the cut will be on your right.
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 is the side where appearance is important. 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. 9).

4. **NEVER** place the saw on the part of the workpiece that will fall off when the cut is made (see Fig. 10).
5. **ALWAYS** keep the cord away from the cutting area. **ALWAYS** place the cord so it does not hang up on the workpiece when making a cut.



OPERATION cont.

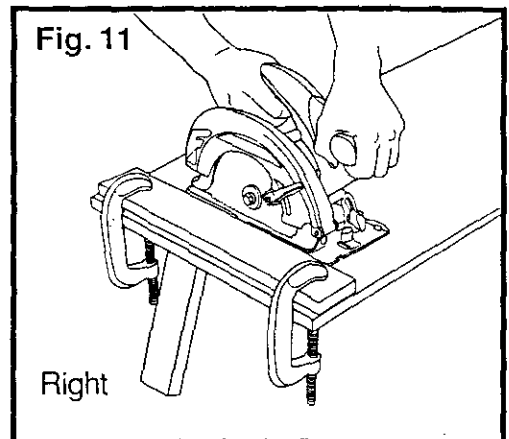
TO HELP MAINTAIN CONTROL cont.

⚠ DANGER: If the cord hangs up on the workpiece during a cut, release the trigger switch immediately. Unplug the saw and move the cord to prevent it from hanging up again.

⚠ DANGER: Using the saw with a damaged cord could result in serious injury or death. If the cord has been damaged, have it replaced before using the saw again.

Hold the saw firmly with both hands (See Fig. 11).

Squeeze the trigger switch to start the saw. **ALWAYS** let the blade reach full speed before you begin the cut into the workpiece.



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

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.

⚠ DANGER: When sawing through the workpiece, the lower blade guard does not cover the blade. The blade is exposed on the under side of the workpiece. **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.

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.

⚠ CAUTION: Whenever you lift your saw from the workpiece, the blade is exposed on the under side of the saw until the lower blade guard closes. **ALWAYS MAKE SURE** that the lower blade guard is closed before setting the saw down on work surface.

OPERATION cont.

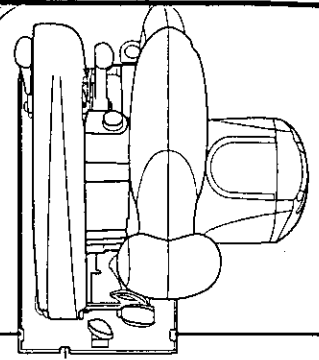
MAKING CROSS CUTS OR RIP CUTS

1. When making cross or rip cuts, align your line of cut with the outer blade guide notch on the base of the saw (See Fig. 12).
2. Since blade thicknesses vary, **ALWAYS** make a trial cut in scrap material along the guideline to determine how much, if any the guideline must be offset to get an accurate cut.

MAKING BEVEL CUTS

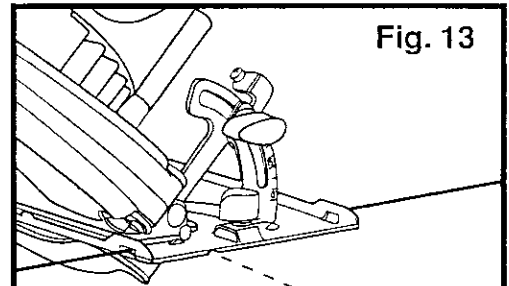
1. Your saw can be adjusted to cut at any angle between 0° and 45° . When making 45° bevel cuts, there is a notch in the saw base to help you line up the blade with the line of cut (See Fig. 13).
2. Align your line of cut with the inner blade guide notch on the base of the saw when making 45° bevel cuts.
3. Since blade thicknesses can vary and different angles require different settings, **ALWAYS** make a trial cut in scrap materials along a guideline to determine how much you should offset the guideline on the board to be cut.
4. When making a bevel cut **ALWAYS** hold your saw firmly with both hands (See Fig. 14).
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.

Fig. 12



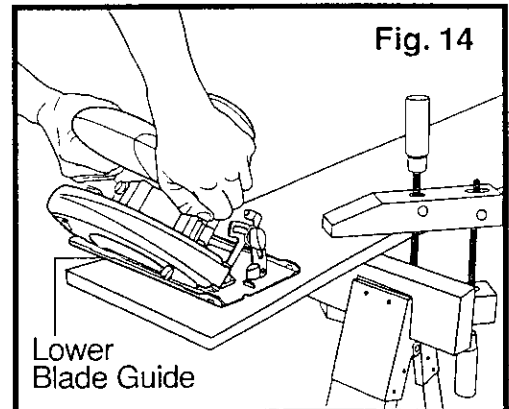
Align Outer Blade Guide Notch on Saw Base with Line of Cut (as shown) When Making Cross Cuts or Rip Cuts

Fig. 13



Align Inner Blade Guide Notch on Shoe with Line of Cut (as shown) When Making 45° Bevel Cuts

Fig. 14



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

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.

OPERATION cont.

TO ADJUST THE BEVEL SETTING

1. Unplug the saw.

⚠ WARNING: Failure to unplug the saw could result in accidental starting causing possible serious personal injury.

2. Loosen Knob (See Fig. 13).
3. Raise the motor housing end of the saw until you reach the desired angle setting on the bevel scale See Fig. 13).
4. Tighten Knob securely.

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

POSITIVE 0° BEVEL STOP (See Fig. 15)

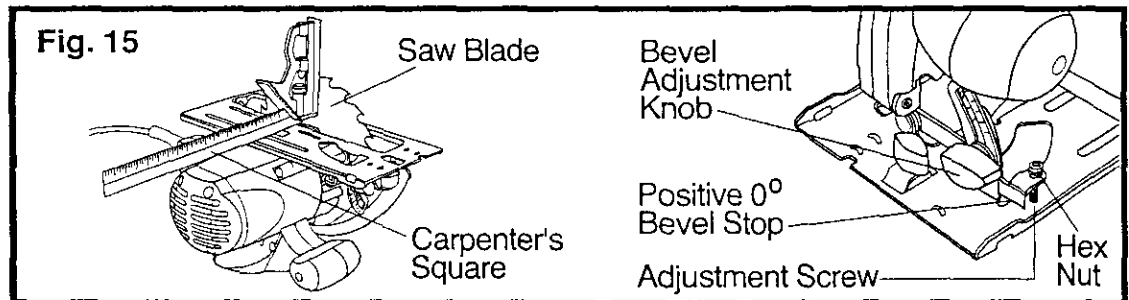
Your saw has a positive 0° bevel stop, it was adjusted at the factory to assure 0° angle of the saw blade for 90° cuts. However shipping can cause misalignment.

To Check

1. Unplug the saw.

⚠ WARNING: Failure to unplug the saw could result in accidental starting causing possible serious personal injury.

2. Place saw in an upside down position on workbench (See Fig. 15).
3. Use a carpenter's square to check the squareness of the saw blade to the shoe on your saw.



To Adjust

1. Unplug the saw.

⚠ WARNING: Failure to unplug the saw could result in accidental starting causing possible serious personal injury.

2. Loosen knob.
3. Loosen hex nut securing adjustment screw.
4. Turn screw and adjust shoe until square with saw blade.
5. Tighten hex nut and knob securely.

⚠ WARNING: Attempting to make cuts without knob securely tightened can result in serious injury.

OPERATION cont.

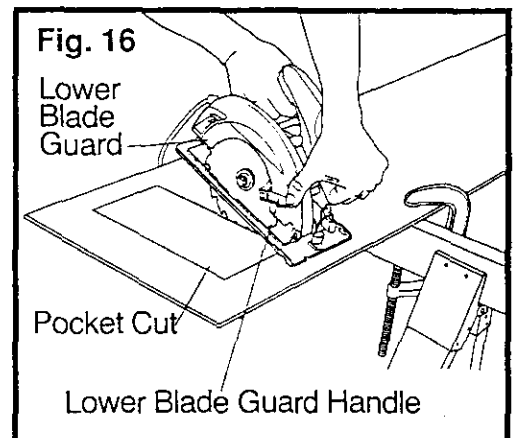
TO MAKE POCKET CUTS

⚠ 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, possibly causing serious injury.

1. Adjust the bevel setting to zero, set the blade to the correct blade depth setting, and swing the lower blade guard up, using the lower blade guard handle.

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

2. While holding the lower blade guard by the handle, firmly rest the front of the shoe flat against the workpiece with the rear handle raised so the blade does not touch the workpiece (See Fig. 16).
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 shoe is flat against the workpiece.
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. Corners can then be cleared out with a hand saw or sabre saw.



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

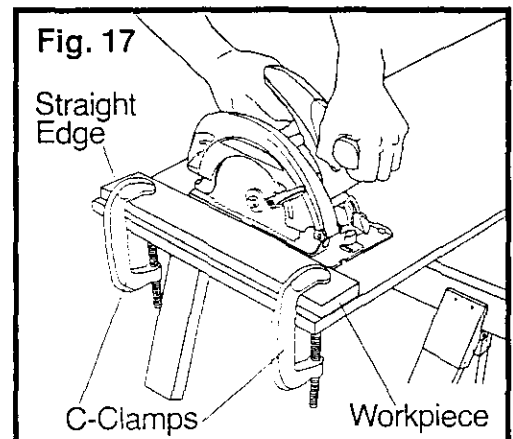
MAKING RIP CUTS

ALWAYS use a guide when making long or wide rip cuts with your saw. You can use either a straight edge or use the Optional Rip/Edge Guide with a 5-inch scale (sold separately at your local Sears store or Craftsman outlet).

Using a Straight Edge

You can make an efficient rip guide by clamping a straight edge to your workpiece. (See Fig.17)

1. Secure the workpiece.
2. Use C-clamps to firmly attach straight edge to the workpiece.
3. Carefully guide the saw along the straight edge for a straight rip cut.
4. **DO NOT** bind the blade in the cut.




OPERATION cont.

MAKING RIP CUTS cont.

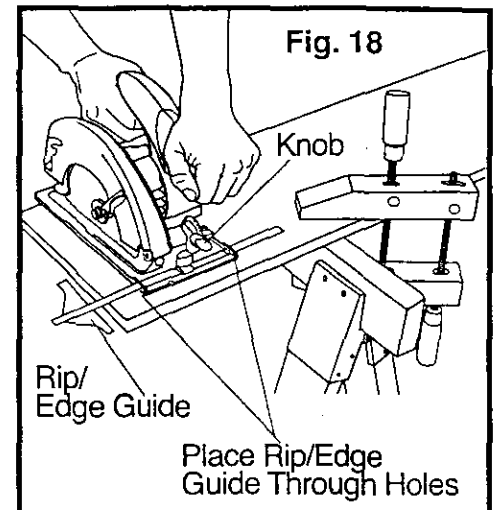
Using The Rip/Edge Guide (sold separately)

To Attach the Rip/Edge Guide

1. Unplug the saw.

 **WARNING: NEVER** Failure to unplug the saw could result in accidental starting causing possible serious personal injury.

2. Place guide through holes in shoe of saw (See Fig. 18).
3. Adjust guide to the desired depth.
4. Tighten the guide knob securely.





Using the Rip/Edge Guide

1. Place the face of the guide firmly against the edge of the workpiece. Doing this will give you a true cut without pinching the blade.
2. **BE SURE** that guiding edge of the workpiece is straight so you can get a straight cut.
3. Carefully guide the saw along the guide for a straight rip cut.
4. **DO NOT** bind the blade in the cut.

MAINTENANCE


GENERAL

 **WARNING:** To avoid accidents, **ALWAYS** disconnect the tool from the power source **BEFORE** cleaning or performing any maintenance. All parts represent an important part of the double insulation system and should be serviced only at a Sears Service Center. 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, carbon dust, etc.

 **WARNING: DO NOT** at any time let brake fluids, gasoline, petroleum-based products, penetrating oils, etc. to come in contact with plastic parts. They contain chemicals that can damage, weaken or destroy plastic. It is a known fact that electric tools are subject to accelerated wear and possible premature failure when they are used to work on fiber glass boats and sports cars, wallboard, spackling compounds or plaster. The chips and grindings from these materials are highly abrasive to electrical tool parts, such as bearings, brushes, commutators, etc. Consequently, it is not recommended that this tool be used for extended work on any fiber glass material, wallboard, spackling compound, or plaster. During any use on these materials, it is extremely important that the tool is cleaned frequently by blowing with an air jet.

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 is required.

 **WARNING: ALWAYS** wear safety goggles or safety glasses with or side shields when using this tool or blowing dust. If operation is dusty, also wear a dust mask.

DOUBLE INSULATION

Double insulation is a concept in safety in electric power tools, which eliminates the need for the standard 3-wire grounded power cord. All exposed metal parts are isolated from the internal motor components with protecting insulation. Double insulated tools do not need to be grounded.

IMPORTANT


The servicing of a tool with double insulation requires extreme care and knowledge of the system and should be performed only by a qualified service technician. For service, we recommend that you return the tool to your nearest Sears Service Center for repair. **ALWAYS** use identical replacement parts when servicing.


MAINTENANCE cont.

EXTENSION CORDS

The use of any extension cord will cause some loss of power. To keep the loss at a minimum and to prevent overheating, use an extension cord that is heavy enough to carry the current that the tool will draw.

A wire gauge (AWG) of at least 16 is recommended for an extension cord 100 feet or less in length. When working outdoors **ALWAYS** use an extension cord that is suitable for outdoor use. The cord's jacket will be marked WA.

 **CAUTION:** Keep extension cords away from the cutting area, and position the cord so it will not get caught on lumber, tools, etc. during the cutting operation.

 **WARNING:** Check extension cords before each use. If damaged, replace it immediately. **NEVER** use a tool with a damaged cord because touching the damaged area could cause electrical shock, resulting in serious injury.

Extension cords that are suitable for use with your saw are available at your nearest Sears Store.

ACCESSORIES

The following recommended accessories are currently available at your local Sears Store.

7 1/4-in. 40-Tooth General-Purpose Cut-Off Blade
7 1/4-in. 35-Tooth Master Combination Blade
7 1/4-in. 200-Tooth Plywood Blade
7 1/4-in. 18-Tooth Carbide Blade
7 1/4-in. 18-Tooth Mach II Silver Series Carbide Blade
7 1/4-in. 24-Tooth Mach II Silver Series Carbide Blade
7 1/4-in. 24-Tooth Combination Carbide Blade
Rip Guide

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

7 1/4-IN. CIRCULAR SAW – MODEL NUMBER 172.10850

The Model Number will be found on the Nameplate. Always mention the Model Number in all correspondence regarding your tool.

No.	Part No.	Description	Quantity
1	SW55.57.0-00	Screw	4
2	SB18.0.05.0-00	Rear Cover	1
3	ST05.07.01-00	Rubber Pad	2
4	ST02.14.00-00	Carbon Brush	2
5	ST03.13.00-00	Brush Housing	2
6	SB18.0.16.0-00	Name plate	1
7	SB18.0.06.0-00	Housing	1
8	SB18.0.05.0-00	Side Cover	2
9	SW57.39.1-00	Screw	3
10	SW57.61.1-00	Screw	2
11	SW55.59.1-00	Screw	5
12	SB18.0.14.0-00	Left Handle	1
13	SW01.32.22-00	Cord and Plug	1
14	ST05.01.13-00	Cord Sleeve	1
15	SW02.32-00	Switch	1
16	SW55.58.0-00	Screw	2
17	ST08.01.07-00	Cord Clamp	1
18	SB18.0.13.0-00	Right Handle	1
19	STB50.14.01-00	Stator	1
20	SW55.71.0-00	Screw	2
21	SB18.0.07-00	Baffle	1
22	ST05.02.09-00	Bearing Bushing	1
23	SW50.14.3-00	Ball Bearing	1
24	STB51.14.01-00	Armature	1
25	ST01.01.15-00	Fan	1
26	SW50.15.4-00	Ball Bearing	1
27	ST05.03.09-00	E-Ring	1
28	SB18.0.17.0-00	Knob	1

No.	Part No.	Description	Quantity
29	SB14.0.17-00	Nut	1
30	SW60.78.0-00	Plain Washer	1
31	SW58.13.0-00	Screw	1
32	ST05.03.09-00	O-Ring	1
33	SB18.2.00-00	Button	1
34	SW61.11.0-00	E-Ring	1
35	ST14.03.19-00	Spring	1
36	SB18.0.12.0-00	Warning Label	1
37	SB18.0.04.0-00	Fixed Guard	1
38	SB18.0.03.0-00	Brand Label	1
39	SW62.35.0-00	Screw & Nut	1
40	ST05.07.11-00	Rubber Ring	1
41	SW60.80.0-00	Plain Washer	2
42	SW57.75.0-00	Screw	1
43	SW50.16.0-00	Ball Bearing	1
44	STB01.02-00	Gear	1
45	STB02.03-00	Spindle	1
46	SW50.03.3-00	Ball Bearing	1
47	SB18.0.08-00	Gear Cover	1
48	SW57.71.0-00	Screw	3
49	ST04.03.39-00	Spring	1
50	SB18.0.02.0-00	Lower Guard	1
51	ST18.03.00-00	Knob	1
52	SB18.0.01.0-00	Lower Guard	1
53	SW57.70.0-00	Screw	1
54	SB18.0.09-00	Back Flange	1
55	SW05.11.1-00	Saw Blade	1
56	SB18.0.10-00	Front Flange	1

SEE BACK PAGE FOR PARTS ORDERING INSTRUCTIONS

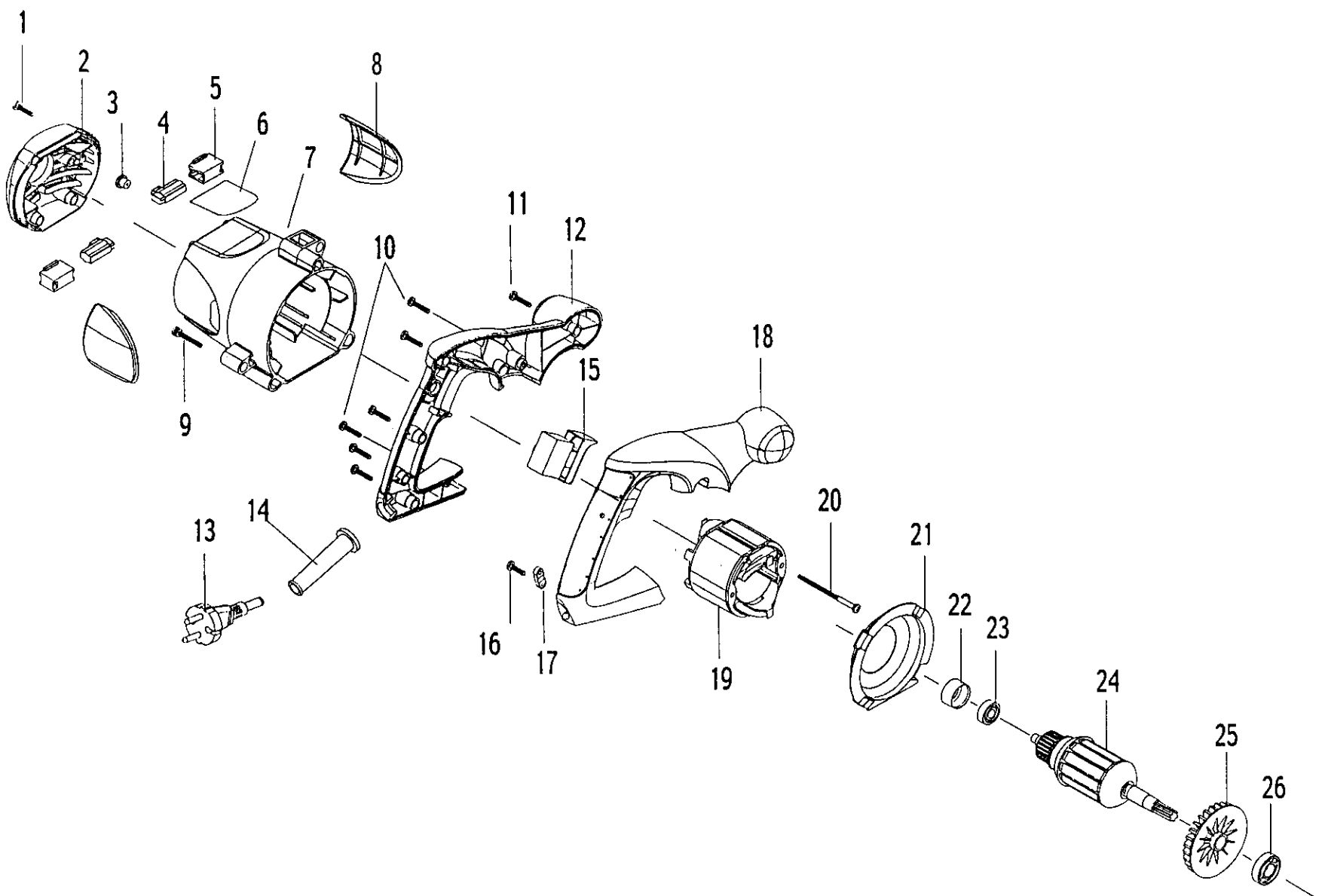
7 1/4-IN. CIRCULAR SAW – MODEL NUMBER 172.10850

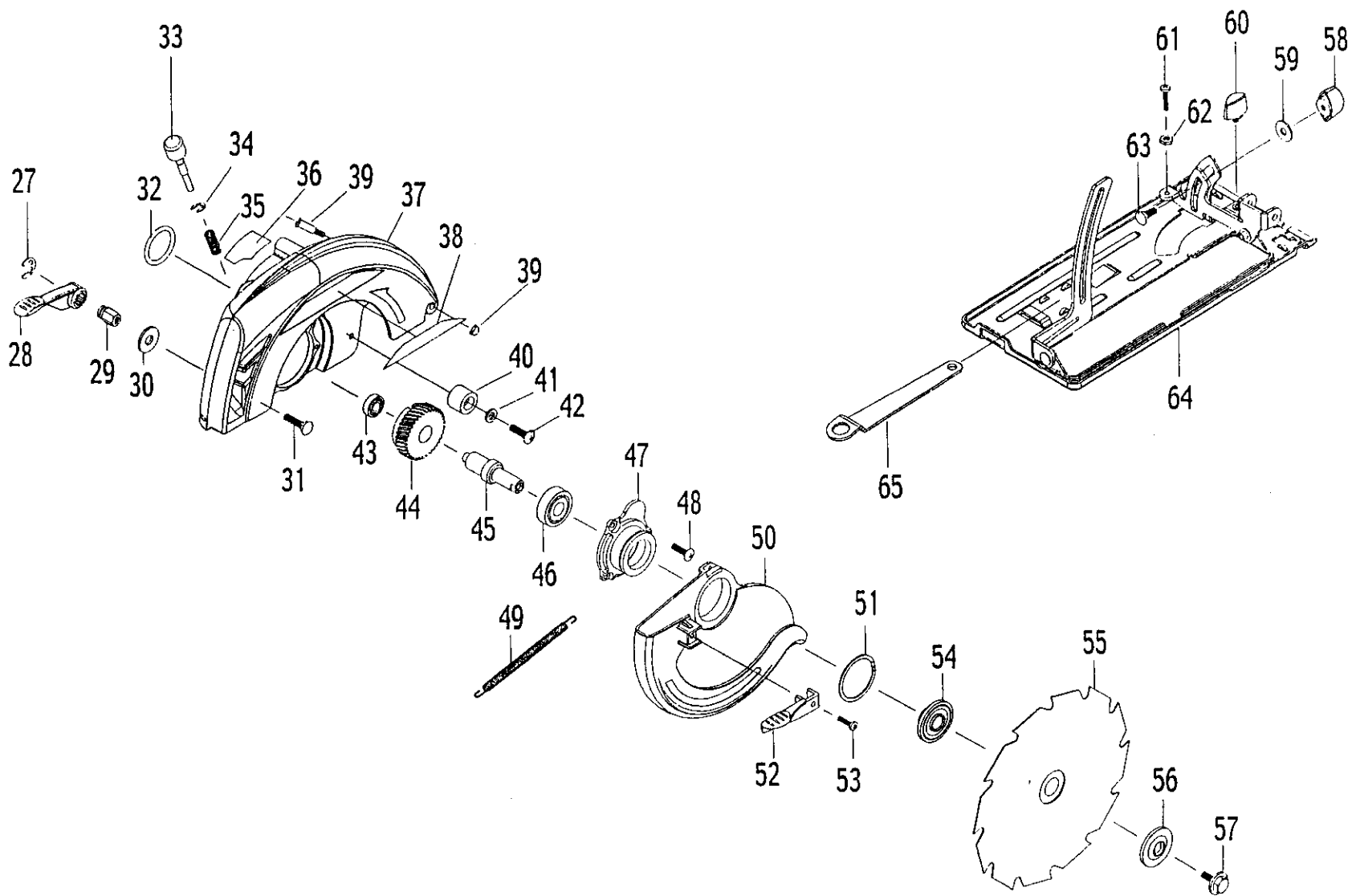
The Model Number will be found on the Nameplate. Always mention the Model Number in all correspondence regarding your tool.

No.	Part No.	Description	Quantity
57	SW58.26.0-00	Screw	1
58	SB14.0.14.0-00	Knob	1
59	SW60.78.0-00	Plain Washer	1
60	SB14.0.13-00	Knob	1
61	SW56.16.1-00	Screw	1
62	SW59.26.1-00	Nut	1
63	SW58.12.0-00	Screw	1
64	SB18.1.00.0-00	Base Plate	1
65	STB08.01-00	Wrench	1

SEE BACK PAGE FOR PARTS ORDERING INSTRUCTIONS

27





NOTES

Get it fixed, at your home or ours!

Your Home

For repair in **your home** of **all** major brand appliances, lawn and garden equipment, or heating and cooling systems, **no matter who made it, no matter who sold it!**

For the replacement parts, accessories and owner's manuals that you need to do-it-yourself.

For Sears professional installation of home appliances and items like garage door openers and water heaters

1-800-4-MY-HOME[®] Anytime, day or night
(1-800-469-4663) (U S A and Canada)
www.sears.com www.sears.ca

Our Home

For repair of carry-in products like vacuums, lawn equipment, and electronics, call or go on-line for the nearest **Sears Parts and Repair Center.**

1-800-488-1222 Anytime, day or night (U S A only)
www.sears.com

To purchase a protection agreement on a product serviced by Sears:

1-800-827-6655 (U S A) **1-800-361-6665** (Canada)

Para pedir servicio de reparación a domicilio, y para ordenar piezas

1-888-SU-HOGARSM
(1-888-784-6427)

Au Canada pour service en français:

1-800-LE-FOYER^{MC}
(1-800-533-6937)
www.sears.ca

SEARS

© Sears, Roebuck and Co

® Registered Trademark / ™ Trademark / SM Service Mark of Sears, Roebuck and Co
® Marca Registrada / ™ Marca de Fabrica / SM Marca de Servicio de Sears, Roebuck and Co
®^{MC} Marque de commerce / ^{MC} Marque déposée de Sears, Roebuck and Co