CHICAGO ELECTRIC® POWER TOOLS

7-1/4" CIRCULAR SAW

WITH LASER

Model 95004

SET UP AND OPERATING INSTRUCTIONS



Visit our website at: http://www.harborfreight.com



Read this material before using this product. Failure to do so can result in serious injury. SAVE THIS MANUAL.

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For technical questions or replacement parts, please call 1-800-444-3353.

Revised Manual 10g

SAVE THIS MANUAL

Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product's serial number in the back of the manual near the assembly diagram (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference.

IMPORTANT SAFETY INFORMATION

In this manual, on the labeling, and all other information provided with this product:



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

DANGER indicates a **A** DANGER hazardous situation which, if not avoided, will result in death or serious injury.

WARNING indicates a **AWARNING** hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION, used with **ACAUTION** the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE

NOTICE is used to address practices not related to personal injury.

CAUTION

CAUTION, without the safety alert symbol, is used to address practices not related to personal injury.

General Power Tool Safety Warnings



WARNING Read all safety warnings and instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious iniurv.

Save all warnings and instructions for future reference.

The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

- 1. Work area safety
 - a. Keep work area clean and well lit. Cluttered or dark areas invite accidents.
 - b. 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.
 - c. Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.
- 2. **Electrical safety**
 - a. Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with grounded power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
 - b. Avoid body contact with grounded surfaces such as pipes, radiators,

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- ranges and refrigerators. There is an increased risk of electric shock if your body is grounded.
- c. Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- d. Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- e. When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.
- f. If operating a power tool in a damp location is unavoidable, use a Ground Fault Circuit Interrupter (GFCI) protected supply. Use of a GFCI reduces the risk of electric shock.

3. Personal safety

- a. Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
- b. Use safety equipment. Always wear eye protection. Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- c. Prevent unintentional starting.
 Ensure the switch is in the offposition before connecting to power source and/or battery pack, picking

- up or carrying the tool. Carrying power tools with your finger on the switch or energizing power tools that have the switch on invites accidents.
- d. Remove any adjusting key or wrench before turning the power tool on.

 A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- e. Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- f. Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry or long hair can be caught in moving parts.
- g. If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of these devices can reduce dust-related hazards.
- h. Only use safety equipment that has been approved by an appropriate standards agency. Unapproved safety equipment may not provide adequate protection. Eye protection must be ANSI-approved and breathing protection must be NIOSH-approved for the specific hazards in the work area.

4. Power tool use and care

- a. Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
- b. Do not use the power tool if the switch does not turn it on and off.

 Any power tool that cannot be controlled

- with the switch is dangerous and must be repaired.
- c. Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
- d. Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
- e. Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- f. **Keep cutting tools sharp and clean.**Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- g. Use the power tool, accessories and blades etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.

5. Service

a. Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

Circular Saw Safety Warnings

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

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- 9. Causes and Operator Prevention of Kickback:
 - Kickback is a sudden reaction to a pinched, bound or misaligned saw blade, causing an uncontrolled saw to lift up and out of the workpiece toward the operator;
 - When the blade is pinched or bound tightly by the kerf closing down, the blade stalls and the motor reaction drives the unit rapidly back toward the operator;
 - If the blade becomes twisted or misaligned in the cut, the teeth at the back edge of the blade can dig into the top surface of the wood causing the blade to climb out of the kerf and jump back toward the operator.
 - Kickback is the result of saw misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below:
 - a. Maintain a firm grip with both hands on the saw and position your arms to resist kickback forces. Position your body to either side of the blade, but not in line with the blade. Kickback could cause the saw to jump backwards, but kickback forces can be controlled by the operator, if proper precautions are taken.
 - b. When blade is binding, or when interrupting a cut for any reason, release the trigger and hold the saw motionless in the material until the blade comes to a complete stop. Never attempt to remove the saw from the work or pull the saw backward while the blade is in motion or kickback may occur. Investigate and take corrective actions to eliminate the cause of blade binding.
 - c. When restarting a saw in the workpiece, center the saw blade in

- the kerf and check that saw teeth are not engaged into the material. If saw blade is binding, it may walk up or kickback from the workpiece as the saw is restarted.
- d. 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.
- e. **Do not use dull or damaged blades.** *Unsharpened or improperly set blades produce narrow kerf causing excessive friction, blade binding and kickback.*
- f. Blade depth and bevel adjusting locking levers must be tight and secure before making cut. If blade adjustment shifts while cutting, it may cause binding and kickback.
- g. Use extra caution when making a "plunge cut" into existing walls or other blind areas. The protruding blade may cut objects that can cause kickback.
- 10. Check lower guard for proper closing before each use. Do not operate the saw if lower guard does not move freely and close instantly. Never clamp or tie the lower guard into the open position. If saw is accidentally dropped, lower guard may be bent. Raise the lower guard with the retracting handle and make sure it moves freely and does not touch the blade or any other part, in all angles and depths of cut.
- 11. Check the operation of the lower guard spring. If the guard and the spring are not operating properly, they must be serviced before use.

 Lower guard may operate sluggishly due

- to damaged parts, gummy deposits, or a build-up of debris.
- 12. Lower guard should be retracted manually only for special cuts such as "plunge cuts" and "compound cuts." Raise lower guard by retracting handle and as soon as blade enters the material, the lower guard must be released. For all other sawing, the lower guard should operate automatically.
- 13. Always observe that the lower guard is covering the blade before placing saw down on bench or floor. An unprotected, coasting blade will cause the saw to walk backwards, cutting whatever is in its path. Be aware of the time it takes for the blade to stop after switch is released.
- 14. DO NOT USE THIS SAW WITH THE SAW HELD UPSIDE DOWN IN A VISE. The saw is not designed for such use and cannot be used safely in that position.
- 15. Do not use to cut logs, tree limbs, or uneven lumber.
- 16. Wet lumber, green (unseasoned)
 lumber, and pressure treated lumber
 all have an increased potential for
 kickback and should only be cut with
 a blade for cutting that lumber type.
 Wear a NIOSH-approved respirator
 and have appropriate ventilation
 whenever cutting pressure treated
 lumber.
- 17. Do not use blades made from highspeed steel, abrasive blades, metalcutting blades or masonry-cutting blades. The guards of this saw are not designed to protect against the failure of such blades.
- 18. Place the larger portion of the saw base on the larger, supported part of

- **the workpiece.** This will help maintain balance and control while the cut is completed.
- 19. Blades must be rated to at least the maximum speed marked on the tool.
- Maintain labels and nameplates on the tool. These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.
- 21. Avoid unintentional starting. Prepare to begin work before turning on the tool.
- 22. Do not lay the tool down until it has come to a complete stop. Moving parts can grab the surface and pull the tool out of your control.
- 23. When using a handheld power tool, maintain a firm grip on the tool with both hands to resist starting torque.
- 24. Do not leave the tool unattended when it is plugged into an electrical outlet. Turn off the tool, and unplug it from its electrical outlet before leaving.
- 25. Use clamps (not included) 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.
- 26. This product is not a toy. Keep it out of reach of children.
- 27. Verify that there are no utility lines or hardware in or near the workpiece. This is especially critical for plunge cuts.
- 28. Do not depress the spindle lock when starting or during operation.
- 29. People with pacemakers should consult their physician(s) before use. Electromagnetic fields in close proximity to heart pacemaker could cause

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pacemaker interference or pacemaker failure. In addition, people with pacemakers should:

- Avoid operating alone.
- Properly maintain and inspect to avoid electrical shock.
- Any power cord must be properly grounded. Ground Fault Circuit Interrupter (GFCI) should also be implemented – it prevents sustained electrical shock.
- 30. WARNING: Some dust created by power sanding, sawing, grinding, drilling, and other construction activities, contains chemicals known [to the State of California] to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:
 - Lead from lead-based paints
 - Crystalline silica from bricks and cement or other masonry products
 - Arsenic and chromium from chemically treated lumber

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles. (California Health & Safety Code § 25249.5, et seq.)

- 31. WARNING: Handling the cord on this product will expose you to lead, a chemical known to the State of California to cause cancer, and birth defects or other reproductive harm. Wash hands after handling. (California Health & Safety Code § 25249.5, et seq.)
- 32. The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator

that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

Vibration Safety

This tool vibrates during use. Repeated or long-term exposure to vibration may cause temporary or permanent physical injury, particularly to the hands, arms and shoulders. To reduce the risk of vibration-related injury:

- 1. Anyone using vibrating tools regularly or for an extended period should first be examined by a doctor and then have regular medical check-ups to ensure medical problems are not being caused or worsened from use. Pregnant women or people who have impaired blood circulation to the hand, past hand injuries, nervous system disorders, diabetes, or Raynaud's Disease should not use this tool. If you feel any medical or physical symptoms related to vibration (such as tingling, numbness, and white or blue fingers), seek medical advice as soon as possible.
- 2. Do not smoke during use. Nicotine reduces the blood supply to the hands and fingers, increasing the risk of vibration-related injury.
- 3. Wear suitable gloves to reduce the vibration effects on the user.
- 4. Use tools with the lowest vibration when there is a choice.
- 5. Include vibration-free periods each day of work.
- Grip tool as lightly as possible (while still keeping safe control of it). Let the tool do the work.
- 7. To reduce vibration, maintain the tool as explained in this manual. If any

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abnormal vibration occurs, stop use immediately.



SAVE THESE INSTRUCTIONS.

GROUNDING

AWARNING

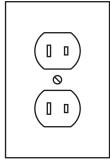
TO PREVENT ELECTRIC SHOCK

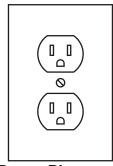
AND DEATH FROM INCORRECT GROUNDING WIRE CONNECTION:



Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded. Do not modify the power cord plug provided with the tool. Never remove the grounding prong from the plug. Do not use the tool if the power cord or plug is damaged. If damaged, have it repaired by a service facility before use. If the plug will not fit the outlet, have a proper outlet installed by a qualified electrician.

Double Insulated Tools: Tools with <u>Two Prong Plugs</u>





Outlets for 2-Prong Plug

 Tools marked "Double Insulated" do not require grounding. They have a special double insulation system which satisfies OSHA requirements and complies with

- the applicable standards of Underwriters Laboratories, Inc., the Canadian Standard Association, and the National Electrical Code.
- Double insulated tools may be used in either of the 120 volt outlets shown in the preceding illustration. (See Outlets for 2-Prong Plug.)

Extension Cords

- Grounded tools require a three wire extension cord. Double Insulated tools can use either a two or three wire extension cord.
- As the distance from the supply outlet increases, you must use a heavier gauge extension cord. Using extension cords with inadequately sized wire causes a serious drop in voltage, resulting in loss of power and possible tool damage. (See Table A.)
- The smaller the gauge number of the wire, the greater the capacity of the cord. For example, a 14 gauge cord can carry a higher current than a 16 gauge cord. (See Table A.)
- When using more than one extension cord to make up the total length, make sure each cord contains at least the minimum wire size required. (See Table A.)
- 5. If you are using one extension cord for more than one tool, add the nameplate amperes and use the sum to determine the required minimum cord size. (See Table A.)
- 6. If you are using an extension cord outdoors, make sure it is marked with the suffix "W-A" ("W" in Canada) to indicate it is acceptable for outdoor use.

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- Make sure the extension cord is properly wired and in good electrical condition. Always replace a damaged extension cord or have it repaired by a qualified electrician before using it.
- 8. Protect the extension cords from sharp objects, excessive heat, and damp or wet areas.

RECOMMENDED MINIMUM WIRE GAUGE FOR EXTENSION CORDS* (120/240 VOLT)					
NAMEPLATE	EXTENSION CORD LENGTH				
AMPERES (at full load)	25'	50'	75'	100'	150'
0 – 2.0	18	18	18	18	16
2.1 – 3.4	18	18	18	16	14
3.5 – 5.0	18	18	16	14	12
5.1 – 7.0	18	16	14	12	12
7.1 – 12.0	18	14	12	10	-
12.1 – 16.0	14	12	10	-	-
16.1 – 20.0	12	10	-	-	-
* Based on limiting the line volt- age drop to five volts at 150% of the rated amperes.					

Symbology

	Double Insulated
(1)	Canadian Standards Association
(UL)	Underwriters Laboratories, Inc.
V~	Volts Alternating Current
Α	Amperes
n ₀ xxxx/min.	No Load Revolutions per Minute (RPM)

SPECIFICATIONS

Motor	120 V~ / 60 Hz / 10 A; 5,000 RPM
Laser Battery Type	"AAA" (Qty. 2 included)
Saw Blade	7-1/4" Diameter (Included)
	Minimum 5,000 RPM Rating
Maximum Cutting Depth	2-1/2" @ 90° / 1-3/4" @ 45°
Spindle Diameter	5/8"
Base Plate Dimensions	10-5/8" L x 5-5/16" W x 3/8" H
Fence Guide Dimensions	6-1/4" L x 10-3/16" W x 1-1/16" H



UNPACKING

When unpacking, make sure the item is intact and undamaged. If any parts are missing or broken, please call Harbor Freight Tools at the number shown on the cover of this manual as soon as possible.

INSTRUCTIONS FOR PUTTING INTO USE



Read the <u>ENTIRE</u> IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

AWARNING

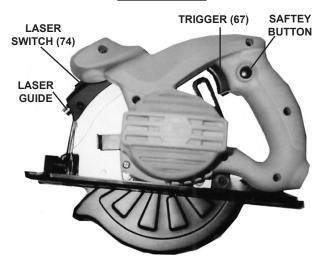
TO PREVENT SERIOUS INJURY

FROM ACCIDENTAL OPERATION:

Turn the Trigger of the tool off and unplug the tool from its electrical outlet before assembling or making any adjustments to the tool. TO PREVENT SERIOUS INJURY FROM FLYING FRAGMENTS: Do not use blades made from high-speed steel, abrasive blades, or metal- or masonry-cutting blades. The guards of this saw are not designed to protect against the failure of such blades.

Note: For additional information regarding the parts listed in the following pages, refer to the Assembly Diagram near the end of this manual.

Functions



- 1. **Safety Button:** The Circular Saw is equipped with a Safety Button. To turn the Saw on, first depress the Safety Button and then pull on the Trigger.
- 2. Laser Switch (74): The Circular Saw is equipped with a Laser Guide that is designed to aid alignment of the Saw Blade with the cutting line on the workpiece. To operate, push the Laser Switch to its "ON" or "OFF" positions.

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OPERATING INSTRUCTIONS



Read the <u>ENTIRE</u> IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

Tool Set Up

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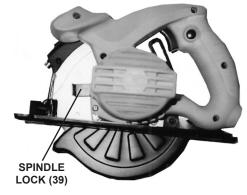
TO PREVENT SERIOUS INJURY

FROM ACCIDENTAL OPERATION:

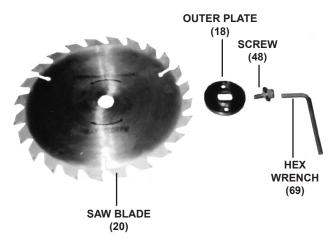
Turn the Trigger of the tool off and unplug the tool from its electrical outlet before adjusting tool or installing accessories.

To Install A Saw Blade:

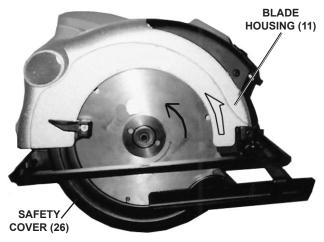
<u>CAUTION!</u> To avoid accidental cuts to hands and fingers, always wear heavy duty work gloves when installing Saw Blades (20).



1. Depress the Spindle Lock (39) to hold the Spindle stationary.



- 2. Use the accessory Hex Wrench (69) to unscrew and remove the Screw (48).
- 3. Remove the Outer Plate (18).



 Raise up on the Safety Cover (26).
 Then, install the Saw Blade (20) on the Spindle of the tool.

IMPORTANT: When installing a Saw Blade (20), make sure the teeth of the Saw Blade point upward and that the direction of the arrow shown on the Saw Blade matches the direction of the arrow shown on the Blade Housing (11).

- 5. Release the Safety Cover (18), and allow it to return to its original position.
- 6. Re-install the Outer Plate (18). While depressing the Spindle Lock (39), use the accessory Hex Wrench (69) to *firmly* re-tighten the Screw (48) back into the

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Spindle to secure the Saw Blade (20) in place.

To Adjust The Depth Of Cut:

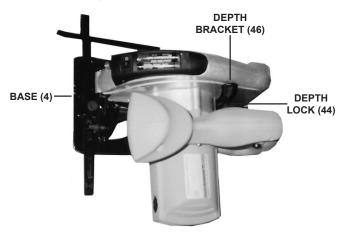


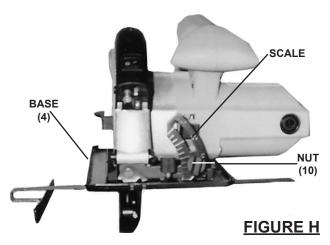
FIGURE G

- The depth of cut may be adjusted to a maximum of 2-1/2" at 90 degrees and 1-3/4" at 45 degrees.
- 2. To adjust the depth of cut, raise the Depth Lock (44) to its unlocked position.
- 3. Raise the Saw body up from the Base (4), and set the depth of cut using the Depth Bracket (46) provided.
- 4. Then, lower the Depth Lock to its locked position.

NOTE: Add 1/8" to your depth of cut so the Saw Blade (20) can cut through the material and clear out sawdust from the cut.

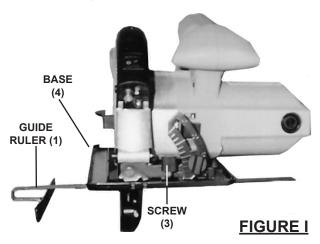
To Adjust The Angle Of Cut:

1. The angle of cut may be adjusted from 90 degrees to 45 degrees.



 To adjust the angle of cut, loosen the Nut (10). Rotate the Base (4) to set the angle, using the Scale provided. Then, retighten the Nut to lock the Base in position.

To Adjust The Guide Ruler:



- The Guide Ruler (1) is used for making cut parallel to a workpiece edge at a chosen distance.
- 2. To use the Guide Ruler (1), loosen the Screw (3). Slide the arm of the Guide Ruler through the openings on each side of the Base (4) and achieve the desired cutting distance using the Scale. Then, retighten the Screw to lock the Guide Ruler in position.

NOTE: The Guide Ruler can be used from either side of the Base.

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Work Piece and Work Area Set Up

- 1. Work piece selection:
 - a. Work piece must be free of foreign objects and loose knots.
 - b. Do not use to cut logs, tree limbs, or uneven lumber.
 - c. Wet lumber, green (unseasoned) lumber, and pressure treated lumber all have an increased potential for kickback and should only be cut with a blade designed for cutting that lumber. Wear a NIOSH-approved respirator and have appropriate ventilation whenever cutting pressure treated lumber.
- Designate a work area that is clean and well-lit. The work area must not allow access by children or pets to prevent distraction and injury.
- Route the power cord along a safe route to reach the work area without creating a tripping hazard or exposing the power cord to possible damage. The power cord must reach the work area with enough extra length to allow free movement while working.
- Secure loose workpieces using a vise or clamps (not included) to prevent movement while working.
- 5. Verify that there are no utility lines or hardware in or near the workpiece. This is especially critical for plunge cuts.

General Operating Instructions

- Make sure that all guards are in place and in proper working order and that all adjustment knobs are tight before operation.
- 2. Once all adjustments are made, plug the Power Cord/Plug (68) into the nearest 120 volt, grounded, electrical outlet.

- 3. Position the Saw Blade (20) about 1/2" from the beginning cut line on the workpiece. Do not allow the Saw Blade to come in contact with the workpiece.
- Turn the Laser Switch (74) to its "ON" position, and align the laser beam with the cut line on the workpiece. Note: Kerf will be centered on laser beam.
- 5. Depress the Safety Button and then squeeze the Trigger (67) to turn on the Circular Saw.
- 6. Allow the Saw Blade (20) to rotate at full speed before slowly feeding it into the workpiece.
- 7. Make sure to hold the Circular Saw firmly with both hands to avoid kickback. Then, finish making the cut.
- 8. When finished, release the Trigger (67) to stop the Circular Saw. Wait until the Saw Blade (20) stops completely. Turn the Laser Switch (74) to its "**OFF**" position. Then, remove the Circular Saw from the workpiece.
- To prevent accidents, turn off the tool and disconnect its power supply after use. Clean, then store the tool indoors out of children's reach.

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MAINTENANCE AND SERVICING



Procedures not specifically explained in this manual must be performed only by a qualified technician.

AWARNING

TO PREVENT SERIOUS INJURY

FROM ACCIDENTAL OPERATION:

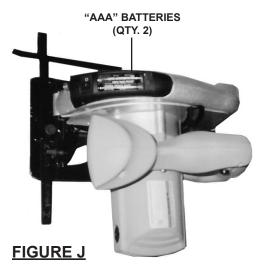
Turn the Power Switch of the tool off and unplug the tool from its electrical outlet before performing any inspection, maintenance, or cleaning procedures.

TO PREVENT SERIOUS INJURY FROM TOOL FAILURE:

Do not use damaged equipment. If abnormal noise or vibration occurs, have the problem corrected before further use.

Cleaning, Maintenance, and Lubrication

- BEFORE EACH USE, inspect the general condition of the tool. Check for loose screws, misalignment or binding of moving parts, cracked or broken parts, damaged electrical wiring, and any other condition that may affect its safe operation.
- 2. **Before each use,** inspect the Saw Blade (20). Using a dull Saw Blade will cause excessive wear on the Motor of the Circular Saw and will not produce a satisfactory cut. Replace with a new Saw Blade when needed.



- 3. To replace the Batteries for the Laser:
 The Laser Guide requires the use of
 two "AAA" Batteries. To replace the
 Batteries:
 - a. Open the Laser Plate Cover (17) to expose the Batteries.
 - b. Remove the old Batteries.
 - c. Then, install two fully charged "AAA"

 Batteries, making sure to match the poles (+ and --) as shown in the Battery Compartment.
 - d. Then, close the Laser Plate Cover (17).
- 4. To clean or replace the Carbon Brushes (60): Clean or replace the two Carbon Brushes when the Motor performance decreases, or stops working completely. The Carbon Brushes are located on each side of the Housing (57).
 - a. Unscrew and remove the two Carbon Brush Covers (61) located on each side of the Housing (57).
 - b. Remove the two Carbon Brushes (60) from the two Brush Holders (59).
 - c. If the Carbon Brushes (60) are worn down more than 1/2, replace both Carbon Brushes. If, however, the Carbon Brushes are just dirty they may be cleaned by rubbing them with a pencil eraser.

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Note: Reinstall in the same orientation.

- d. When installing the Carbon Brushes (60), make sure the carbon portion of the Carbon Brushes contact the motor's Stator (56) and that the springs face away from the Stator. Also, make sure the springs operate freely.
- e. After replacement or cleaning, replace the two Carbon Brush Covers (61).

NOTE: New Carbon Brushes (60) tend to arc or spark when first used until they wear and conform to the motor's Stator (56).

- 5. To clean the exterior parts of the Circular Saw, use only a clean cloth and mild detergent to clean the body of the Saw. Do not immerse any electrical part of the tool in any liquids.
- 6. AWARNING! If the supply cord of this power tool is damaged, it must be replaced only by a qualified service technician.

Troubleshooting

Problem	Possible Causes	Likely Solutions
Tool will not start.	Cord not connected.	Check that cord is plugged in.
	2. No power at outlet.	2. Check power at outlet. If outlet is unpowered, turn off tool and check circuit breaker. If breaker is tripped, make sure circuit is right capacity for tool and circuit has no other loads.
	Tool's thermal reset breaker tripped (if equipped).	3. Turn off tool and allow to cool. Press reset button on tool.
	Internal damage or wear. (Carbon brushes or switch, for example.)	4. Have technician service tool.
Tool operates slowly.	Power being reduced by long or small diameter extension cord.	Eliminate use of extension cord. If an extension cord is needed, use one with the proper diameter for its length and load. See <i>Extension Cords</i> in <i>GROUNDING</i> section.
Performance	Blade dull or damaged.	Keep blade sharp. Replace as needed.
decreases over time.	Carbon brushes worn or damaged.	2. Have qualified technician replace brushes.
Excessive noise or rattling.	Internal damage or wear. (Carbon brushes or bearings, for example.)	Have technician service tool.
Overheating.	Forcing tool to work too fast.	Allow tool to work at its own rate.
	2. Blade misaligned.	2. Check and correct blade to fence alignment.
	3. Blade dull or damaged.	3. Keep blade sharp. Replace as needed.
	4. Blocked motor housing vents.	4. Wear ANSI-approved safety goggles and NIOSH-approved dust mask/respirator while blowing dust out of motor using compressed air.
	Motor being strained by long or small diameter extension cord.	5. Eliminate use of extension cord. If an extension cord is needed, use one with the proper diameter for its length and load. See <i>Extension Cords</i> in <i>GROUNDING</i> section.



Follow all safety precautions whenever diagnosing or servicing the tool. Disconnect power supply before service.

PLEASE READ THE FOLLOWING CAREFULLY

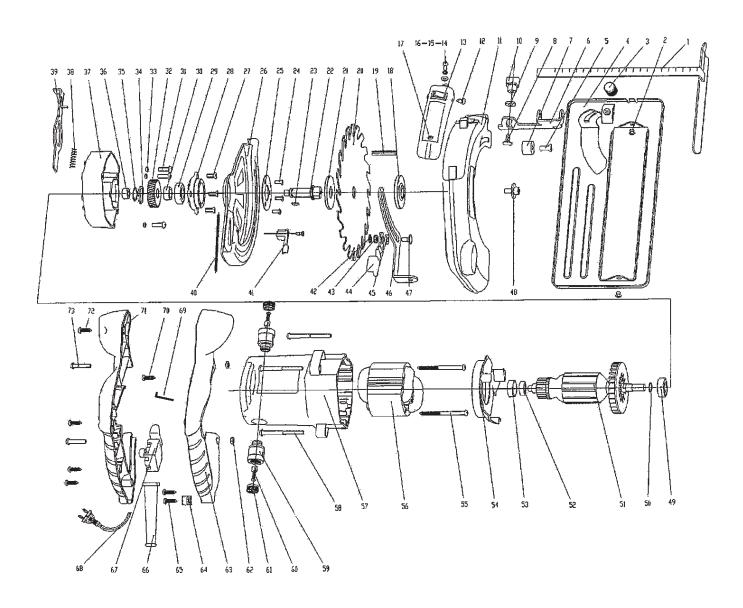
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PARTS LIST

Part	Description	Qty.
1	Guide Ruler	1
2	Rivet	2
3	Screw	1
4	Base	1
5	Screw (M6 x 16)	1
6	Angle Bracket	1
7	Orientation Block	1
8	Screw (M6 x 10)	1
9	Washer	1
10	Nut (M6)	1
11	Blade Housing	1
12	Screw	1
13	Laser Plate	1
14	Screw	1
15	Spring Washer	1
16	Washer	1
17	Laser Plate Cover	1
18	Outer Plate	1
19	Spring Pin (6 x 40)	1
20	Saw Blade	1
21	Inner Plate	1
22	Spindle	1
23	Key (3 x 10 x 7)	1
24	Screw (M4 x 8)	4
25	Safety Cover Plate	1
26	Safety Cover	1
27	Screw (M5 x 8)	3
28	Bearing (6001Z)	1
29	Bearing Holder	1
30	Orientation Steel Cover	1
31	Screw (M5 x 14)	3
32	Gear	1
33	Spring Washer (#5)	4
34	Wave Spring Washer (#12)	1
35	C-Ring (#12)	1
36	Oilless Bearing	1
37	Gear Box	1

Part	Description	Qty.
38	Spring	1
39	Spindle Lock	1
40	Spring	1
41	Safety Cover Wrench	1
42	C-Ring (#10)	1
43	Nut (M6)	1
44	Depth Lock	1
45	Large Washer	1
46	Depth Bracket	1
47	Screw (M6 x 14)	1
48	Screw (M6 x 16)	1
49	Bearing (6000Z)	1
50	C-Ring (#12)	1
51	Rotor	1
52	Bearing (607Z)	1
53	Bearing Cover	1
54	Air Baffle Plate	1
55	Screw (ST4.8 x 60)	2
56	Stator	1
57	Housing	1
58	Screw (M5 x 58)	3
59	Carbon Brush Holder	2
60	Carbon Brush	2
61	Carbon Brush Cover	2
62	Nut (M5)	2
63	Right Handle	
64	Cord Clamp	1
65	Screw (ST4.2 x 14)	2
66	Cord Sleeve	1
67	Power Switch	1
68	Power Cord/Plug	1
69	Hex Wrench	1
70	Screw (ST4.2 x 12)	1
71	Left Handle	1
72	Screw (ST\$.2 x 16)	4
73	Screw (M5 x 25)	2
74	Laser Switch	1

ASSEMBLY DIAGRAM



Record Product's Serial Number Here:

 $\underline{\textbf{Note:}}$ If product has no serial number, record month and year of purchase instead.

Note: Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts.

SKU 95004 For technical questions, please call 1-800-444-3353. Page 17

LIMITED 1 YEAR / 90 DAY WARRANTY

Harbor Freight Tools Co. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that for a period of ninety days from date of purchase that the engine/motor, the belts (if so equipped). and the blades (if so equipped) are free of defects in materials and workmanship. Harbor Freight Tools also warrants to the original purchaser, for a period of one year from date of purchase, that all other parts and components of the product are free from defects in materials and workmanship (90 days if used by a professional contractor or if used as rental equipment). This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

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