Instruction manual

MODEL 845 Circular Saw MODEL 8923 Battery Pack



MODEL 8924 Charger

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ESPAÑOL: PÁGINA 23 FRANÇAISE : PAGE 45

Cordless Circular Saw





MODEL 844 Circular Saw MODEL 8723 Battery Pack

IMPORTANT

Please make certain that the person who is to use this equipment carefully reads and understands these instructions before starting operations.

The Model and Serial No. plate is located on the mair
housing of the tool. Record these numbers in the
spaces below and retain for future reference.

Model No	 	 	
Туре	 		
Serial No.			

TABLE OF CONTENTS GENERAL SAFETY RULES 4 ADDITIONAL SPECIFIC SAFETY RULES 6 SAFETY INSTRUCTIONS FOR CHARGER AND BATTERIES 9 FUNCTIONAL DESCRIPTION13 SERVICE CENTER LOCATIONSback cover

IMPORTANT SAFETY INSTRUCTIONS

AWARNING
Read and understand all warnings and operating instructions before using any tool or equipment. When using tools or equipment, basic safety precautions should always be followed to reduce the risk of personal injury. Improper operation, maintenance or modification of tools or equipment could result in serious injury and property damage. There are certain applications for which tools and equipment are designed. Porter-Cable strongly recommends that this product NOT be modified and/or used for any application other than for which it was designed.

If you have any questions relative to its application DO NOT use the product until you have written Porter-Cable and we have advised you.

Online contact form at www.porter-cable.com

Postal Mail: Technical Service Manager Porter-Cable Corporation 4825 Highway 45 North Jackson, TN 38305

Information regarding the safe and proper operation of this tool is available from the following sources:

Power Tool Institute

1300 Sumner Avenue, Cleveland, OH 44115-2851

www.powertoolinstitute.org

National Safety Council 1121 Spring Lake Drive, Itasca, IL 60143-3201

American National Standards Institute, 25 West 43rd Street, 4 floor, New York, NY 10036 www.ansi.org ANSI 01.1Safety Requirements for Woodworking Machines, and the U.S. Department of Labor regulations www.osha.gov

SAFETY GUIDELINES - DEFINITIONS

It is important for you to read and understand this manual. The information it contains relates to protecting YOUR SAFETY and PREVENTING PROBLEMS. The symbols below are used to help you recognize this information.



A DANGER

indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

▲WARNING

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

ACAUTION

indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

CAUTION

used without the safety alert symbol indicates potentially hazardous situation which, if not avoided, may result in property damage.

CALIFORNIA PROPOSITION 65

AWARNING 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 and 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, always wear NIOSH/OSHA approved, properly fitting face mask or respirator when using such tools.

GENERAL SAFETY RULES

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



SAVE THESE INSTRUCTIONS

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 earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- b) Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- 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.

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) Avoid accidental starting. Ensure the switch is in the off-position before plugging in. Carrying power tools with your finger on the switch or plugging in power tools that have the switch on invites accidents.

GENERAL SAFETY RULES continued

- 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.

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 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 tools 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 tool bits etc., in accordance with these instructions and in the manner intended for the particular type of power tool, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.

GENERAL SAFETY RULES continued

5) Battery tool use and care

- a) Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
- b) Use battery tools only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.
- c) When battery pack is not in use, keep it away from other metal objects like paper clips, coins, keys, nails, screws, or other small metal objects that can make a connection from one terminal to another. Shorting the battery terminals together may cause burns or a fire.
- d) Under abusive conditions, liquid may be ejected from the battery. Avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, seek additional medical help. Liquid ejected from the battery may cause irritation or burns.
- e) Ensure the switch is in the off position before inserting battery pack.
 Inserting the battery pack into power tools that have the switch on invites accidents.

6) 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.

ADDITIONAL SPECIFIC SAFETY RULES

Safety Instructions for All Saws

A DANGER

- a) 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.
- b) **Do not reach underneath the workpiece.** The guard cannot protect you from the blade below the workpiece.
- c) 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.
- d) 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.
- e) 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.
- f) When ripping always use a rip fence or straight edge guide. This improves the accuracy of cut and reduces the chance of blade binding.

ADDITIONAL SPECIFIC SAFETY RULES continued

- g) 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.
- h) **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.

Kickback Safety Instructions

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:
- i) 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.
- j) 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.
- k) When restarting a saw in the workpiece, centre the saw blade in the kerf and check that saw teeth are not engaged into the material. If saw blade is binding, it may walk up or kickback from the workpiece as the saw is restarted.
- Support large panels to minimize the risk of blade pinching and kickback. Large panels tend to sag under their own weight. Supports must be placed under the panel on both sides, near the line of cut and near the edge of the panel.
- m) Do not use dull or damaged blades. Unsharpened or improperly set blades produce narrow kerf causing excessive friction, blade binding and kickback.
- Blade depth and bevel adjusting locking levers must be tight and secure before making cut. If blade adjustment shifts while cutting, it may cause binding and kickback.
- Use extra caution when making a "plunge cut" into existing walls or other blind areas. The protruding blade may cut objects that can cause kickback.

ADDITIONAL SPECIFIC SAFETY RULES continued

Lower Guard Safety Instructions

- p) 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.
- q) 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.
- r) 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.
- s) 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.

Other Safety Instructions

- t) Wear eye and hearing protection. Always use safety glasses. Everyday eyeglasses are NOT safety glasses. USE CERTIFIED SAFETY EQUIPMENT. Eye protection equipment should comply with ANSI Z87.1 standards. Hearing equipment should comply with ANSI S3.19 standards.
- u) AWARNING Use of this tool can generate and disburse dust or other airborne particles, including wood dust, crystalline silica dust and asbestos dust. Direct particles away from face and body. Always operate tool in well ventilated area and provide for proper dust removal. Use dust collection system wherever possible. Exposure to the dust may cause serious and permanent respiratory or other injury, including silicosis (a serious lung disease), cancer, and death. Avoid breathing the dust, and avoid prolonged contact with dust. Allowing dust to get into your mouth or eyes, or lay on your skin may promote absorption of harmful material. Always use properly fitting NIOSH/OSHA approved respiratory protection appropriate for the dust exposure, and wash exposed areas with soap and water.

SYMBOL		DEFINITION
V		volts
Α		amperes
Hz		
W		
kW		
F_		
μF		
I		litres
g		9
kg		kilograms
bar		bars
Pa		pascals
h .		
min		
S		
n_0		no-load speed
/min	ormin ⁻¹	Revolutions or reciprocations per minute
 o	r d.c	direct current
\sim \circ	r a.c	alternating current
2 ~		two-phase alternating current
2N / U		two-phase alternating current with neutral
3 ′ ∪		three-phase alternating current
3N / C		three-phase alternating current with neutral
—— A		rated current of the appropriate fuse-link in amperes
<u></u>	for	time-lag miniature fuse-link where X is the symbol the time/current characteristic, as given in IEC 60127
$\stackrel{\bigcirc}{=}$		protective earth
		class II tool
IPXX		IP symbol

SAFETY INSTRUCTIONS FOR CHARGER AND BATTERIES

- 1. **SAVE THESE INSTRUCTIONS.** This manual contains important safety and operating instructions for Porter-Cable Battery Charger.
- 2. Before using a battery charger, read all instructions and cautionary markings on (1) battery charger, (2) battery pack, and (3) product using battery.
- 3. ACAUTION To reduce risk of injury, a Porter-Cable charger should only be used to charge a Porter-Cable battery pack. Other types of batteries may burst causing personal injury and damage. Do not charge a Porter-Cable battery pack with any other charger.
- 4. **Do not expose charger** to rain, snow or frost.
- **5. Do not abuse cord.** Never carry charger by cord or yank it to disconnect from receptacle. Pull by plug rather than cord when disconnecting charger. Have damaged or worn power cord and strain reliever replaced immediately. DO NOT ATTEMPT TO REPAIR POWER CORD.
- **6. Make sure cord** is located so that it will not be stepped on, tripped over, or otherwise subjected to damage or stress.

- **7. Do not use an extension cord** 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 the pins on plug of extension cord are the same number, size and shape as those of plug on charger.
 - B. That the extension cord is properly wired and in good electrical condition.
 - C. Wire Size of cord is at least as specified in following chart:

LENGTH OF CORD IN FEET	25	50	100	150
AWG SIZE OF CORD	18	18	18	16

- D. If an extension cord is to be used outdoors it must be marked with the suffix W-A or W following the cord type designation. For example SJTW-A to indicate it is acceptable for outdoor use.
- **8. Do not operate** charger with damaged cord or plug have them replaced immediately, to avoid a hazard. DO NOT ATTEMPT TO REPAIR POWER CORD.
- **9. Do not operate** charger if it has received a sharp blow, been dropped, or otherwise damaged in any way; take it to a qualified serviceman.
- **10.** Do not disassemble charger or battery pack. Take it to a qualified serviceman when service or repair is required. Incorrect reassembly may result in a risk of electric shock or fire.
- **11. Unplug charger** from outlet before attempting any maintenance or cleaning to reduce risk of electric shock.
- **12.** Charge the battery pack in a well ventilated place, do not cover the charger and battery pack with a cloth, etc., while charging.
- **13. Do not store** the charger or battery pack in locations where the temperature may reach or exceed 122°F (50°C) (such as a metal tool shed, or a car in the summer), which can lead to deterioration of the storage battery.
- **14. Do not charge battery pack** when the temperature is BELOW 40°F (4.4°C) or ABOVE 104°F(40°C). This is very important for proper operation.
- **15.** Do not incinerate battery pack. It can explode in a fire.
- **16.** Do not charge battery in damp or wet locations.
- **17. Do not attempt** to charge any other cordless tool or battery pack with the Porter-Cable charger.
- **18. Do not short across** the terminals of the battery pack: EXTREMELY HIGH TEMPERATURES COULD CAUSE PERSONAL INJURY OR FIRE.
- 19. 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. Double Insulation eliminates the need for the three wire grounded power cord and grounded power supply system.
- **20.** Dispose of expended batteries properly. The Porter-Cable Battery Packs contains rechargeable, nickel-cadmium batteries. These batteries must be recycled or disposed of properly. Drop off expended battery packs at your local replacement battery retailer, your local recycling center, or at a Porter-Cable Service Center (see list on back page of this manual). Applicable fees for the collection and recycling of these batteries (in the United States), have been paid to the RBRC™. For further information, call: 1-800-8-BATTERY.



RBRC[™] is a Trademark of the Rechargeable Battery Recycling Corporation.

CHARGING THE BATTERY PACK

Before using your cordless tool for the first time, fully charge the battery pack. If the battery pack is installed, remove it by following instructions under **INSTALLING OR REMOVING BATTERY PACK.**

NORMAL CHARGING

Make sure that the power circuit voltage is the same as that shown on the charger specification plate. Connect the charger to the power source. The red and green lights will flash once to indicate that the power is connected properly and the charger is ready for operation.

Position the battery pack on charger, align the rails on the battery pack (A) Fig. 2 with the four tabs (C) Fig. 1 on the charger. Slide the battery forward on charger until it stops.

The green light (A) Fig. 1 should begin to flash rapidly indicating that the battery pack is receiving a "fast charge". [If the green light does not flash or if the red light (B) illuminates, see DIAGNOSTICS]. After approximately one hour, the "Fast Charge" indicator light should glow continually, indicating that the battery pack is fully charged and that the

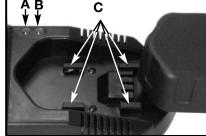


Fig. 1

charger is now in a "Maintenance Charge" mode. The battery pack can be left on "Maintenance Charge" until you are ready to use it.

Depending on room temperature, line voltage, and existing charge level, initial battery charging may take longer than one hour.

Disconnect the charger from the power source when not in use.

INSTALLING OR REMOVING BATTERY PACK

AWARNING Always set the trigger switch to the locked OFF position when installing or removing the battery pack.

TO REMOVE BATTERY PACK: Depress the battery release button (B) Fig. 2, and pull battery pack out of tool.

TO INSTALL BATTERY PACK: Align rails (A) Fig. 2, on battery pack with slots on tool and push battery pack onto tool until it locks in place.

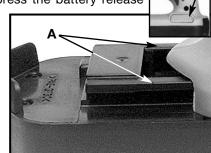


Fig. 2

BATTERY OPERATION

DIAGNOSTICS

The Model 8924 Charger is equipped with a diagnostic system that automatically checks the battery pack each time a pack is inserted into the charger. If no problems are found, the charger will automatically switch to "Fast Charge" mode as described in "NORMAL CHARGING".

Make sure that the power circuit voltage is the same as that shown on the charger specification plate. Connect the charger to the power source. The red and green lights will flash once to indicate that power is connected properly and the charger is ready for operation.

The charger indicator lights will indicate the following problems:

- If the green light flashes slowly after battery pack is inserted in charger, the battery pack temperature is either too high or too low for charging. If left alone, the charger will continue to monitor the battery pack temperature and will begin charging when the temperature reaches an acceptable level.
- If the red light flashes continuously, the battery pack has failed (pack is not chargeable and requires replacement).

As a battery pack approaches the discharged state, you will notice a sharp drop in tool performance. When the tool is unable to perform, recharge the battery pack. Recharging the battery pack before this condition is reached will reduce the total work life of the pack. Discharging the pack beyond this point can damage the pack.

NOTE: Battery temperature will increase during and shortly after use. Batteries may not accept a full charge if they are charged immediately after use. Allow the battery pack to cool to room temperature before charging for best results.

The battery charger may rest on the four pads provided on the bottom of the case or be mounted on a wall by utilizing the two key hole slots provided.

ACAUTION Do not obstruct the vent slots in the top and bottom of charger. Do not charge battery when temperature is BELOW 40°F(4.4°C) or ABOVE 104°F (40°C).

SAVE THESE INSTRUCTIONS!

CARTON CONTENTS

- 1) Saw
- 2) Instruction Manual
- 3) Replacement Parts List
- 4) Charger
- 5) Battery Pack
- 6) Dust Bag

FUNCTIONAL DESCRIPTION

FOREWORD

The Porter-Cable Cordless Circular Saw is designed to cut 2" finished lumber at 45°, using a 150mm (6") diameter, ultra thin-kerf blade having a 1/2" diameter mounting hole.

ASSEMBLY

NOTE: This tool is shipped completely assembled. No assembly time or tools are required.

OPERATION

STARTING AND STOPPING THE SAW

AWARNING This tool is always in an operating condition because it does not have to be plugged into an electrical outlet. Keep hands, body, and clothing clear of the blade when a battery pack is installed in the saw.

The trigger switch is equipped with a "lock-off" button (A) Fig. 3. This "lock-off" button extends through the upper handle area, and may be depressed from either the left or the right side of the handle. Depress either end of this button to release the "lock-off" feature, allowing the trigger switch to be engaged.

- TO START THE SAW Depress and hold either end of the "lock-off" button (A) Fig. 3, then squeeze the trigger switch (B) Fig. 3 to start the saw. (The "lock-off" button may be released as soon as the trigger switch is squeezed).
- 2. **TO STOP THE SAW** Release the trigger switch.

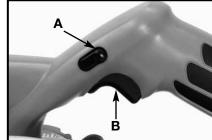


Fig. 3

REMOVING THE BLADE

AWARNING Remove the battery pack.

- Pull the blade wrench (C) Fig. 4 from the storage pocket on the right side of the saw.
- Push in the blade lock (D) Fig. 5, and rotate the blade by hand until the lock engages the blade arbor.



Fig. 4

- While holding the blade lock engaged, use the blade wrench to loosen the blade retaining bolt by rotating clockwise. NOTE: The blade bolt has a left-hand thread.
- Remove the blade retaining bolt, release the blade lock, and remove the outer blade flange.
- 5. Retract telescoping guard and remove blade.

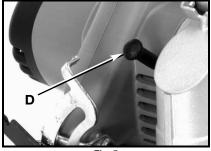


Fig. 5

INSTALLING THE BLADE

AWARNING Remove the battery pack.

- Remove any accumulated sawdust in the guards, around the arbor, and the telescoping guard spring. Check the telescoping guard to ensure that it is in working order.
- Clean the inner blade flange, retract the telescoping guard, and place a sharp blade on the arbor making sure that the teeth point up at the front of the saw (Fig. 6).



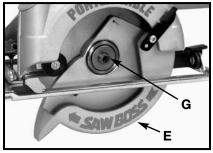
Fig. 6

- 3. Place the outer blade flange on the arbor with the flange toward the blade. Mate the flats with those on the arbor.
- Replace the blade retaining bolt and finger tighten by turning counterclockwise.
- Push in the blade lock and rotate the blade arbor by hand until the lock engages the arbor. Tighten the blade retaining bolt with the blade wrench (C) Fig. 4 just enough to prevent blade slippage during normal cutting, and release the blade lock.

TELESCOPING GUARD

The telescoping guard (E) Fig. 7 is an important safety device. Each time you use the saw, see that the telescoping guard rotates freely and returns quickly and completely to its closed position. Frequently check the retracting spring (F) Fig. 8 to see that it is functional and free of debris. At least once a month, remove any accumulated sawdust, pitch, or other debris from the area around the hub (G) Fig. 7 of the telescoping guard, and add a few drops of light machine oil at each end of the hub. **NEVER** block or wedge the telescoping guard in the open position.

AWARNING DO NOT use your saw if the telescoping guard is not in working order. If the telescoping guard movement is sluggish or binding exists, return the saw to your nearest AUTHORIZED PORTER-CABLE SERVICE STATION or PORTER-CABLE SERVICE CENTER for repair.





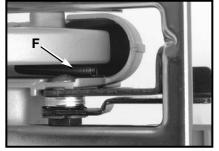


Fig. 8

TO ADJUST DEPTH OF CUT

Adjust the depth of cut so that the saw blade just protrudes through the thickness of workpiece being cut.

To adjust the depth of cut:

AWARNING Remove the battery pack.

- Lift up the depth adjusting lever (H) Fig. 9 at the rear of the saw. 1.
- 2. Raise or lower the saw housing until the blade extends the desired distance below the workpiece.

NOTE: The depth adjusting segment (J) Fig. 10 is marked in 1/8" increments. Aligning the required marking with the lower edge of the housing will produce the approximate depth of cut desired.

Press the depth adjusting locking lever down firmly, locking the saw in the selected position.

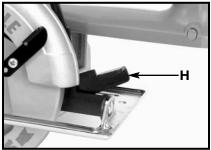


Fig. 9

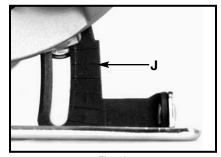


Fig. 10

TO ADJUST FOR BEVEL CUTS

AWARNING Remove the battery pack.

- Lift up the bevel adjustment 1. locking lever (K) Fig. 11.
- 2. Tilt the saw base until the desired graduation line on the bevel segment (L) Fig. 11 lines up with the indicating mark (M) Fig. 11 on bracket.
- 3. Return the bevel adjustment locking lever to the locked position and press down firmly.

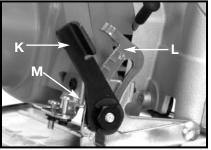


Fig. 11

90° AND 45° BEVEL POSITIVE STOPS

This saw is equipped with adjustable positive stops for both 90° (N) Fig. 12, and 45° bevel cuts (O) Fig. 12. Although these have been set at the factory, check them occasionally to ensure accuracy.

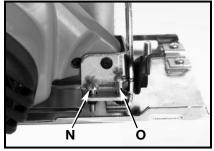


Fig. 12

TO ADJUST 90° POSITIVE STOP

AWARNING Remove the battery pack.

- Loosen the bevel adjustment locking lever (K) Fig. 11 and position the base for 90° cuts, being sure that the top of the base is in contact with the bottom of stop screw (N) Fig. 12. Tighten the locking lever.
- Turn the saw upside down, retract the telescoping guard and check the squareness of blade (Fig. 13).
- If adjustment is necessary, loosen the bevel adjustment locking lever, keeping the top of the base in contact with the stop screw. Turn the stop screw until the angle is correct.



Fig. 13

TO ADJUST 45° POSITIVE STOP

AWARNING Remove the battery pack.

- Loosen the bevel adjustment locking lever (K) Fig. 11 and tilt the base until the top of the stop screw (O) Fig. 12 contacts the extension on the bevel segment. Tighten the locking lever.
- Turn the saw upside down, retract the telescoping guard, and check the 45° angle (Fig. 14).

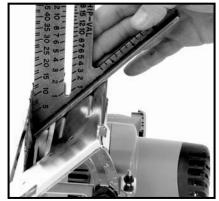


Fig. 14

3. If an adjustment is necessary, loosen the bevel adjustment locking lever and turn the stop screw until the angle is correct.

LINE OF CUT INDICATOR

A line of cut indicator (P) Fig. 15 is provided at the front of the base. The left edge of the notch is used to follow a line when making 90° cuts. The right edge of the notch is used to follow a line when making 45° cuts.

To adjust:

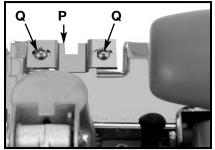


Fig. 15





Fig. 16

AWARNING Remove the battery pack.

- Adjust the saw for a 90° cut.
- 2. Loosen the two screws (Q) Fig. 15.
- Place a straight edge along the side of the blade, touching the set of the 3. blade teeth at both the front and rear of blade (Fig. 16).
- Align the left edge of the notch indicator with the straight edge and tighten the two screws (Q) Fig. 15.

ACAUTION Avoid contact with the blade teeth to prevent personal injury.

TO ATTACH THE BASE INSERT

A base insert (available as an accessory) reduces chipping and splintering of top fibers of plywood when used with a fine tooth blade. THIS INSERT CANNOT BE USED WHEN MAKING BEVEL CUTS.

To Install the insert:

AWARNING Remove the battery pack.

- 1. Adjust the saw for minimum depth of cut.
- 2. Place the large slot in the insert around the stud and the two small slots over the raised dimples on the front of the base (Fig. 17).
- Install the washer (S) Fig. 17 and 3. knob (T) Fig. 17 on stud, but do not tighten.
- 4. Adjust the saw for the desired depth of cut, so that the slot in the insert straddles the saw blade at least 1/4".
- 5. Align the insert so that the saw blade is centered in the slot. Tighten the knob securely.

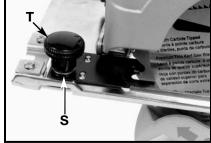


Fig. 17

INSTALLING SAWDUST EXHAUST NOZZLE

An exhaust nozzle is provided to direct sawdust away from the operator and the line of cut. This nozzle can be rotated 360°.

To install:

AWARNING Remove the battery pack.

1. Open the exhaust cover (U) Fig. 18 and clean out any accumulated sawdust.

- 2. Insert the nozzle in the exhaust opening and push in until seated.
- 3. To remove, grasp the nozzle and pull out.

AWARNING Never direct sawdust toward anyone. To avoid personal injury from flying sawdust, keep the exhaust cover closed when the nozzle is not attached. NEVER insert foreign objects into the exhaust opening.

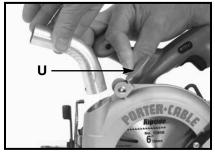


Fig. 18

INSTALLATION AND CARE OF DUST BAG

AWARNING Remove the battery pack.

- Swing open the exhaust cover (U) Fig. 19 and clean out any accumulated sawdust.
- Insert the dust bag in the exhaust opening and push until seated.
- 3. To remove, grasp the dust bag tube and pull out.
- Unzip the bag and shake out the sawdust. Occasionally turn the bag inside out and brush out thoroughly.

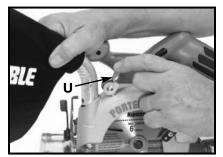


Fig. 19

VACUUM CLEANER ADAPTER

An adapter/hose assembly is available as an accessory for connecting the exhaust opening directly to a shop-type vacuum cleaner.

TO ATTACH RIP GUIDE

A rip guide (V) Fig. 20 is available as an accessory. To install:

▲WARNING Remove the battery pack.

- Insert the rip guide (V) Fig. 20 through the slot in the left side of the base, over the stud, and through the slot in the right side of the base.
- Install the washer and knob (W)
 Fig. 20 on the stud (do not
 tighten) and adjust rip guide for
 desired width of cut.
- 3. Tighten the knob securely.

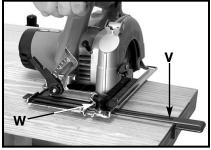


Fig. 20

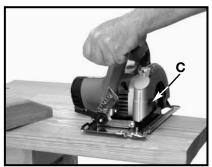
ACAUTION To avoid damage to workpiece and possible personal injury, always extend the rip guide through both slots in base.

HOW TO USE THE SAW

For your protection, effective control of this powerful saw requires two-handed operation. The saw may be operated either right-handed (Fig. 21) or left-handed (Fig. 22).

AWARNING Support the work properly and hold the saw firmly to prevent loss of control which could cause personal injury.

Clamp the workpiece on a rigid support such as a bench or saw horses (Fig. 21). Mark the line of cut on the work. Be sure that the cut-off line is beyond the end of the support to the left only enough to allow proper operation of the telescoping guard. Place the front edge of the saw squarely on the workpiece before starting the motor. Sight the cutting line with the line of cut indicator (P) Fig. 15. Back the saw up slightly and start the motor. Move the saw forward, keeping the edge of the line indicator parallel to the line of cut.



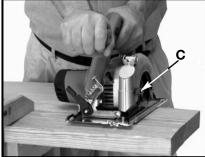


Fig. 21

Fig. 22

Do not force the cut. Let the saw do the cutting at the rate of speed permitted by the type of cut and the type of workpiece. When the cut is complete, release the switch and allow the blade to stop before lifting the saw from the work. Be sure the lower blade guard is closed before putting the saw down.

CROSSCUTTING

Cutting directly across the grain of a piece of lumber is called crosscutting. Fig. 21 illustrates a crosscut operation. Position the work so that the cut will be on the left.

RIPPING

Cutting wood lengthwise is referred to as ripping. This operation is performed in the same manner as crosscutting with the exception of supporting the workpiece. If workpiece is supported on a large table, bench, or floor, place several pieces of scrap stock approximately one inch thick beneath the workpiece to allow clearance for the portion of the saw blade that extends thru the workpiece.

Place 2 x 4's lengthwise between the horses and the workpiece to prevent large sheets of paneling or thin plywood from sagging.

For narrow rip cuts, the rip guide is available as an accessory. Guide the saw by keeping the inner face of the rip guide (Fig. 20) tight against the edge of the board.

For making wider cuts, - plywood and wide sheets - clamp or tack a straight-edge guide or a wooden guide strip on the workpiece. Place the right edge of the saw against this guide strip for accurate cuts (Fig. 23). **NOTE:** Adjust the depth of cut to allow for the thickness of the guide.

BEVEL CUTTING

Bevel cuts are made in the same manner as crosscuts and rip cuts with the blade set at an angle between 0° and 45° (Fig. 24).

The bevel cut made at an angle to the edge of a board is called a compound cut. On certain compound cuts, you may need to manually retract the telescoping guard to allow the blade to enter into and/or through the cut.

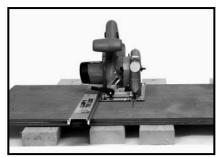




Fig. 23

Fig. 24

AWARNING Use the lever (C) Fig. 21 or 22 provided on the telescoping guard when retracting the telescoping guard manually.

POCKET CUTS (PLUNGE CUTTING)

A pocket cut is one that does not start from the edge, but rather starts within the inside area of the workpiece. Mark the area clearly with lines on all sides.

Start near the corner of one side and place front edge of saw base firmly on the work. Hold saw up so blade clears the workpiece. Be sure you have adjusted the blade properly for depth of cut.

Push the telescoping guard lever all the way back so the blade is exposed as shown in Fig. 21 or 22. Start the motor and lower the blade into the work. After the blade has cut through, and the base rests flat on the work, follow the line right up to the corner. Use a keyhole or bayonet saw to cut the corners out clean.

ACAUTION When making pocket cuts in stone, tile, etc., with a dry diamond blade, exercise extreme care to prevent twisting to reduce the possibility of blade damage.

TROUBLESHOOTING

For assistance with your tool, visit our website at <u>www.porter-cable.com</u> for a list of service centers or call the Porter-Cable help line at 1-800-487-8665.

MAINTENANCE

KEEP TOOL CLEAN

Periodically blow out all air passages with dry compressed air. All plastic parts should be cleaned with a soft damp cloth. NEVER use solvents to clean plastic parts. They could possibly dissolve or otherwise damage the material.

AWARNING Wear ANSI Z87.1 safety glasses while using compressed air.

FAILURE TO START

Should your tool fail to start, check to make sure the prongs on the cord plug are making good contact in the outlet. Also, check for blown fuses or open circuit breakers in the line.

LUBRICATION

This tool has been lubricated with a sufficient amount of high grade lubricant for the life of the unit under normal operating conditions. No further lubrication is necessary.

BRUSH INSPECTION (If applicable)

For your continued safety and electrical protection, brush inspection and replacement on this tool should ONLY be performed by an AUTHORIZED PORTER-CABLE SERVICE STATION or a PORTER-CABLE DELTA FACTORY SERVICE CENTER.

At approximately 100 hours of use, take or send your tool to your nearest authorized Porter-Cable Service Station to be thoroughly cleaned and inspected. Have worn parts replaced and lubricated with fresh lubricant. Have new brushes installed, and test the tool for performance.

Any loss of power before the above maintenance check may indicate the need for immediate servicing of your tool. DO NOT CONTINUE TO OPERATE TOOL UNDER THIS CONDITION. If proper operating voltage is present, return your tool to the service station for immediate service.

SERVICE

REPLACEMENT PARTS

When servicing use only identical replacement parts. For a service parts list or to learn more about Porter-Cable visit our website at www.porter-cable.com

SERVICE AND REPAIRS

All quality tools will eventually require servicing, or replacement of parts due to wear from normal use. For assistance with your tool, visit our website at www.porter-cable.com for a list of service centers or call the Customer Care Department at 1-800-487-8665. All repairs made by our service centers are fully guaranteed against defective material and workmanship. We cannot guarantee repairs made or attempted by others.

Should you have any questions about your tool, feel free to write us at any time. In any communications, please give all information shown on the nameplate of your tool (model number, type, serial number, etc.).

ACCESSORIES

A complete line of accessories is available from your Porter-Cable Delta Supplier, Porter-Cable Delta Factory Service Centers, and Porter-Cable Authorized Service Stations. Please visit our Web Site www.porter-cable.com for a catalog or for the name of your nearest supplier.

AWARNING Since accessories other than those offered by Porter-Cable•Delta have not been tested with this product, use of such accessories could be hazardous. For safest operation, only Porter-Cable•Delta recommended accessories should be used with this product.

WARRANTY

PORTER-CABLE LIMITED ONE YEAR WARRANTY

Porter-Cable warrants its Professional Power Tools for a period of one year from the date of original purchase. We will repair or replace at our option, any part or parts of the product and accessories covered under this warranty which, after examination, proves to be defective in workmanship or material during the warranty period. For repair or replacement return the complete tool or accessory, transportation prepaid, to your nearest Porter-Cable Service Center or Authorized Service Station. Proof of purchase may be required. This warranty does not apply to repair or replacement required due to misuse, abuse, normal wear and tear or repairs attempted or made by other than our Service Centers or Authorized Service Stations.

ANY IMPLIED WARRANTY, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WILL LAST ONLY FOR ONE (1) YEAR FROM THE DATE OF PURCHASE.

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

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