

ESPAÑOL: PÁGINA 21
FRANÇAISE : PAGE 41

Instruction manual

Double Insulated **SAW BOSS®** Circular Saw



MODEL 345

To learn more about Porter-Cable
visit our website at:

<http://www.porter-cable.com>

PORTER-CABLE
PROFESSIONAL POWER TOOLS

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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 main housing of the tool. Record these numbers in the spaces below and retain for future reference.

Model No. _____

Type _____

Serial No. _____

Part No. 901012 - 03-21-05

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IMPORTANT SAFETY INSTRUCTIONS

▲ WARNING 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 01.1 Safety Requirements for Woodworking Machines, and the U.S. Department of Labor regulations www.osha.gov

SAVE THESE INSTRUCTIONS!

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.



▲ DANGER

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

▲ WARNING

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

▲ CAUTION

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

CAUTION

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

CALIFORNIA PROPOSITION 65

▲ 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 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

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



SAVE THESE INSTRUCTIONS

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.

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.

ADDITIONAL SPECIFIC SAFETY RULES

⚠ 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.
- 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.

SAVE THESE INSTRUCTIONS!

- l) **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.
- n) **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.
- o) **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.











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) **⚠ WARNING 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.

SAVE THESE INSTRUCTIONS!

SYMBOL	DEFINITION
V	volts
A	amperes
Hz	hertz
W	watts
kW	kilowatts
F	farads
μ F	microfarads
l	litres
g	grams
kg	kilograms
bar	bars
Pa	pascals
h	hours
min	minutes
s	seconds
n_0	no-load speed
.../min or ...min ⁻¹	Revolutions or reciprocations per minute
 or d.c.	direct current
 or a.c.	alternating current
2 	two-phase alternating current
2N 	two-phase alternating current with neutral
3 	three-phase alternating current
3N 	three-phase alternating current with neutral
 A	rated current of the appropriate fuse-link in amperes
 X	time-lag miniature fuse-link where X is the symbol for the time/current characteristic, as given in IEC 60127
	protective earth
	class II tool
IPXX	IP symbol

MOTOR

Many Porter-Cable tools will operate on either D.C., or single phase 25 to 60 cycle A.C. current and voltage within plus or minus 5 percent of that shown on the specification plate on the tool. Several models, however, are designed for A.C. current only. Refer to the specification plate on your tool for proper voltage and current rating.

CAUTION Do not operate your tool on a current on which the voltage is not within correct limits. Do not operate tools rated A.C. only on D.C. current. To do so may seriously damage the tool.

EXTENSION CORD SELECTION

If an extension cord is used, make sure the conductor size is large enough to prevent excessive voltage drop which will cause loss of power and possible motor damage. A table of recommended extension cord sizes will be found in this section. This table is based on limiting line voltage drop to 5 volts (10 volts for 230 volts) at 150% of rated amperes.

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.

RECOMMENDED EXTENSION CORD SIZES FOR USE WITH PORTABLE ELECTRIC TOOLS

		Length of Cord in Feet									
		115V	25 Ft.	50 Ft.	100 Ft.	150 Ft.	200 Ft.	250 Ft.	300 Ft.	400 Ft.	500 Ft.
		230V	50 Ft.	100 Ft.	200 Ft.	300 Ft.	400 Ft.	500 Ft.	600 Ft.	800 Ft.	1000 Ft.
Nameplate Ampere Rating	0-2	18	18	18	16	16	14	14	12	12	
	2-3	18	18	16	14	14	12	12	10	10	
	3-4	18	18	16	14	12	12	10	10	8	
	4-5	18	18	14	12	12	10	10	8	8	
	5-6	18	16	14	12	10	10	8	8	6	
	6-8	18	16	12	10	10	8	6	6	6	
	8-10	18	14	12	10	8	8	6	6	4	
	10-12	16	14	10	8	8	6	6	4	4	
	12-14	16	12	10	8	6	6	6	4	2	
	14-16	16	12	10	8	6	6	4	4	2	
	16-18	14	12	8	8	6	4	4	2	2	
18-20	14	12	8	6	6	4	4	2	2		

SAVE THESE INSTRUCTIONS!

CARTON CONTENTS

- 1) Saw
- 2) Instruction Manual
- 3) Replacement Parts List
- 4) Dust Tube
- 5) Wrench

FUNCTIONAL DESCRIPTION

FOREWORD

Your Porter-Cable circular saw is designed for use with 150mm (6") diameter, thin-kerf blades having a 1/2" diameter mounting hole.

ASSEMBLY

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

SELECTING A BLADE

A combination blade is furnished with your saw and is an excellent blade for all general ripping and crosscutting operations. Use a fine-tooth blade for cutting plywood. A diamond blade is available for dry cutting concrete, brick, stone, etc.

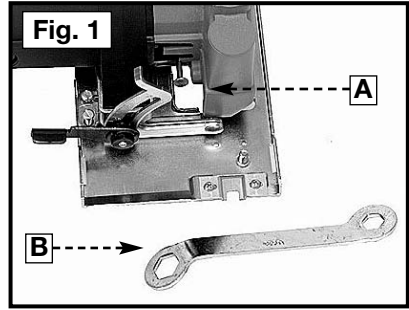
REMOVING THE BLADE

▲WARNING Disconnect tool from power source!

1. Push in the blade lock (A) Fig. 1 and rotate the blade by hand until the lock engages the blade arbor.
2. While holding the blade lock engaged, use the wrench provided (B) Fig. 1, and loosen the blade retaining bolt by rotating it clockwise.

NOTE: The blade retaining bolt has a left-hand thread.

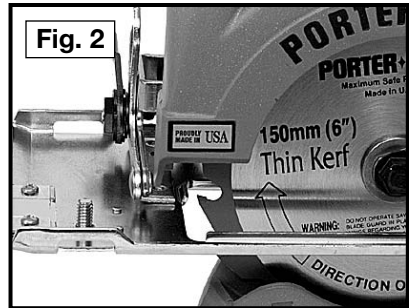
3. Remove the blade retaining bolt, release the blade lock, and remove the outer blade flange.
4. Retract the telescoping guard and remove the blade.



INSTALLING THE BLADE

▲WARNING Disconnect tool from power source!

1. Remove any sawdust that may have accumulated in the guards, around the arbor, and the telescoping guard spring. Check the telescoping guard to ensure that it is in working order.
2. Clean the inner blade flange and retract the telescoping guard. Place a new blade on the arbor, and make sure that the teeth point up at the front of the saw (Fig. 2.).



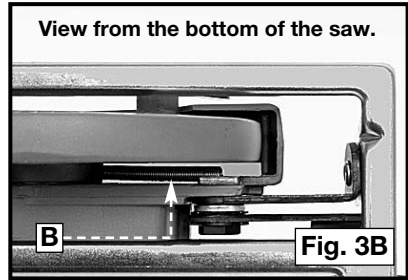
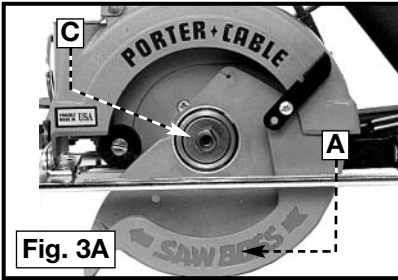
▲WARNING Avoid contact with the blade teeth to prevent personal injury.

3. Place the outer blade flange on the arbor with the flange toward the blade, and with the flats mating with those on the arbor.
4. Replace and finger-tighten the blade-retaining bolt by turning it counter-clockwise.
5. 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 provided wrench just enough to prevent blade slippage during normal cutting. Release the blade lock.

TELESCOPING GUARD

▲WARNING The telescoping guard (A) Fig. 3A is a safety device important to your protection. Every time you use the saw, ensure that the telescoping guard rotates freely, and returns quickly and completely to its closed position. Frequently check the retracting spring (B) Fig. 3B to ensure that it is functional and free of foreign matter. At least once a month, remove any accumulated sawdust, pitch, etc. from the area around the hub (C) Fig. 3A 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.

▲WARNING Never use your saw if the telescoping guard is not in working order. If the telescoping guard movement is sluggish or is binding, return the saw to your nearest AUTHORIZED PORTER-CABLE SERVICE STATION or PORTER-CABLE•DELTA SERVICE CENTER for repair.



OPERATION

TO ADJUST THE DEPTH OF CUT FOR NORMAL CUTTING

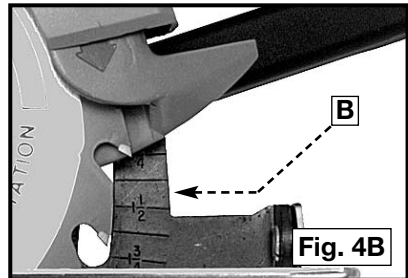
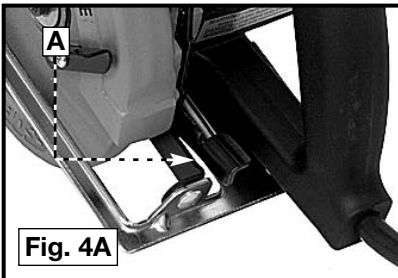
Adjust the depth of cut so that the saw blade barely protrudes through the thickness of the workpiece. To adjust the depth of cut:

▲WARNING Disconnect tool from power source!

1. Lift the depth adjusting locking lever (A) Fig. 4A at the rear of the saw.
2. Raise or lower the saw housing until the blade extends the desired distance below the base.

NOTE: The depth adjusting segment (B) Fig. 4B is marked in 1/8" increments. Align your required marking with the lower edge of housing to produce your approximate depth of cut.

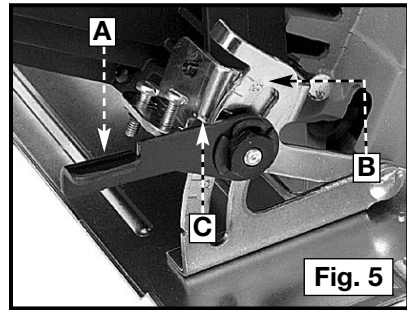
3. Firmly lower the depth-adjusting locking lever to lock the saw in the selected position.



ADJUSTING FOR BEVEL CUTS

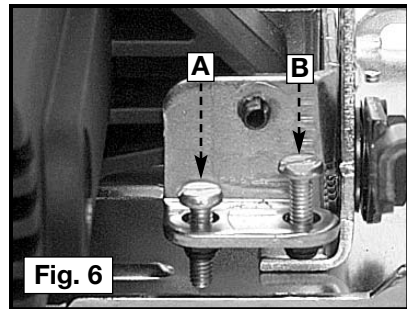
⚠ WARNING Disconnect tool from power source!

1. Raise the bevel-adjustment locking lever (A) Fig. 5.
2. Tilt the saw base until the desired graduation line on the bevel segment (B) Fig. 5 aligns with the indicating mark (C) Fig. 5 on the bracket.
3. Return the bevel-adjustment locking lever to the locked position and press it down firmly.



90° and 45° BEVEL POSITIVE STOPS

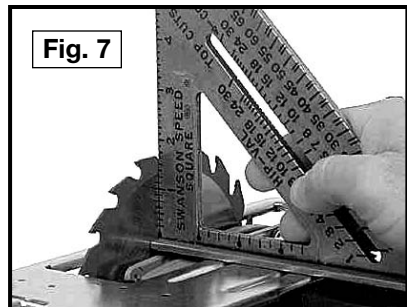
This saw is equipped with adjustable positive stops for both 90° cuts (A) Fig. 6 and 45° bevel cuts (B) Fig. 6. These stops have been set at the factory. However, check them occasionally to ensure accuracy.



TO ADJUST 90° POSITIVE STOP

⚠ WARNING Disconnect tool from power source!

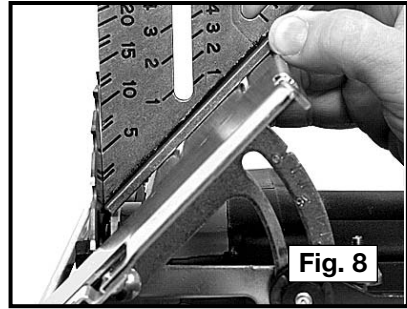
1. Raise the bevel-adjustment locking lever (A) Fig. 5, and position the base for 90° cuts. Make sure that the top of the base is in contact with the bottom of the stop screw (A) Fig. 6, and tighten the locking lever.
2. Turn the saw upside down, retract the telescoping guard, and see if the blade is 90° to the base (Fig. 7).
3. To adjust, loosen the bevel-adjustment locking lever. Keep the top of the base in contact with the stop screw. Turn the stop screw until the blade is 90° to the base.



TO ADJUST 45° BEVEL POSITIVE STOP

⚠WARNING Disconnect tool from power source!

1. Raise the bevel-adjustment locking lever and tilt the base until the top of the stop screw (B) Fig. 6 contacts the extension on the bevel segment. Tighten the locking lever.
2. Turn the saw upside down, retract the telescoping guard, and check the 45° angle (Fig. 8).
3. To adjust, loosen the bevel-adjustment locking lever and turn stop screw until the angle is correct.



LINE OF CUT INDICATOR

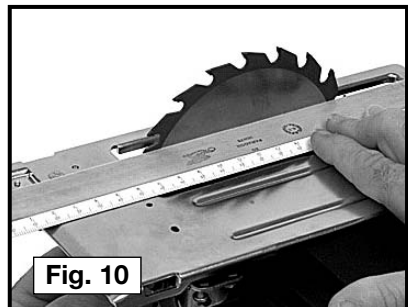
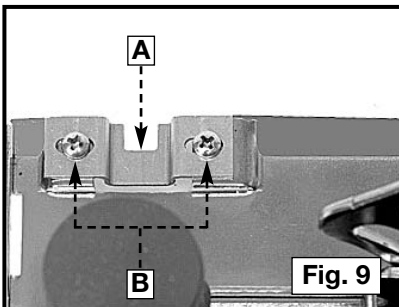
A line of cut indicator (A) Fig. 9 is provided at the front of the base. Use the left edge of the notch of this indicator to make 90° cuts. Use the right edge of the notch to make 45° cuts. To adjust this indicator:

⚠WARNING Disconnect tool from power source!

1. Adjust the saw for a 90° cut.
2. Loosen the two screws (B) Fig. 9.
3. Place a straight edge along the side of the blade, touching the set of the blade teeth at both the front and rear of the blade (Fig. 10).

⚠CAUTION Avoid contact with the blade teeth to prevent personal injury.

4. Align the left edge of the notch in the indicator with the straight edge and tighten the two screws (B) Fig. 9.



TO ASSEMBLE THE OPTIONAL BASE INSERT

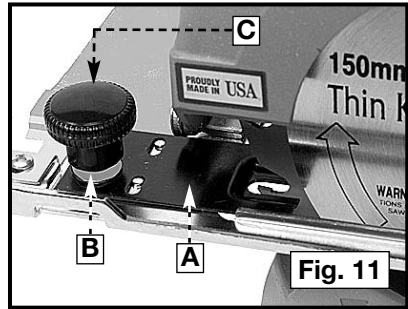
An optional base insert (A) Fig. 10 is available as an accessory and is used with a fine-tooth blade to reduce chipping and splintering of top fibers of plywood.

⚠ CAUTION Do not use this insert when making bevel cuts.

⚠ WARNING Disconnect tool from power source!

To install:

1. Adjust the saw for a minimum depth of cut.
2. Position 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. 11).
3. Install a washer (B) Fig. 11 and knob (C) Fig. 11 on the stud, and hand-tighten for further adjustment.
4. Adjust the saw for depth of cut so that the slot in the insert straddles the saw blade at least 1/8".
5. Align the insert so that the saw blade is centered in the slot. Tighten the knob securely.

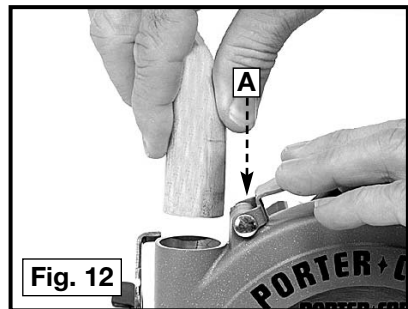


INSTALLING THE SAWDUST EXHAUST NOZZLE

An exhaust nozzle is provided to direct sawdust away from you and from the line of cut. You can rotate this nozzle 360°. To install:

⚠ WARNING Disconnect tool from power source!

1. Open the exhaust cover (A) Fig. 12 and remove any accumulated sawdust.
2. Insert the nozzle in the exhaust opening and push in until it is seated.
3. To remove, grasp the nozzle where it enters the exhaust opening and pull it out.



⚠ WARNING Never direct sawdust toward yourself. To avoid personal injury from flying sawdust, keep the exhaust cover closed when the nozzle is not installed. **NEVER** insert foreign objects into exhaust opening.

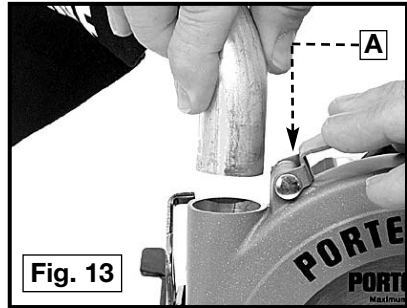
INSTALLATION AND CARE OF DUST BAG

NOTE: An adapter and hose are available as accessories for connecting the exhaust opening directly to a shop-type vacuum cleaner.

A dust bag is available as an accessory. To install the dust bag:

⚠ WARNING Disconnect tool from power source!

1. Open the exhaust cover (A) Fig. 13, and clean out any accumulated sawdust.
2. Insert the dust bag tube in exhaust opening and push in until seated.
3. To remove, grasp the dust bag tube where it enters the exhaust opening and pull out.
4. Unzip the bag and shake out the sawdust. Occasionally turn the bag inside out and brush thoroughly.



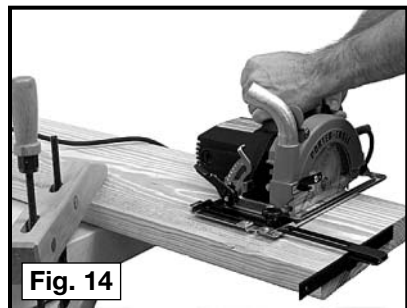
⚠ WARNING To avoid personal injury from flying sawdust, keep the exhaust cover closed when the nozzle is not installed. **NEVER** insert foreign objects into exhaust opening.

TO ATTACH THE RIP GUIDE

A rip guide (Fig. 14) is available as an accessory. To install:

⚠ WARNING Disconnect tool from power source!

1. Insert the rip guide through the slot in the left side of the base, over the stud, and through the slot in the right side of the base.
2. Install the knob and washer on the stud, and adjust the rip guide for the desired width of cut, taking into consideration the set of the blade teeth.
3. Tighten the knob securely.



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

HOW TO USE THE SAW

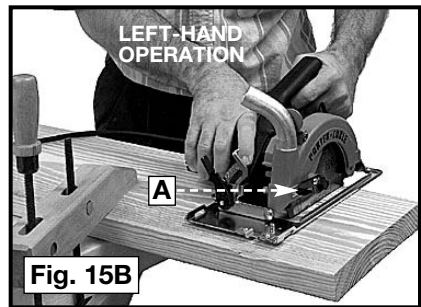
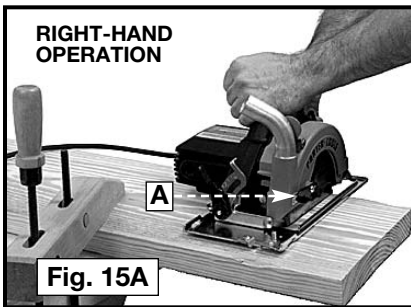
Effective control of this powerful saw requires two-handed operation. You can operate the saw either from a right-handed or left-handed position (Figs. 15A and 15B).

▲WARNING Support the work properly and hold the saw firmly to prevent loss of control which could cause personal injury. The proper hand support of the saw is illustrated in (Figs. 15A and 15B).

Clamp the workpiece on a rigid support (a bench or saw horses). Mark the line of cut on the workpiece. Be sure that the cut-off line is beyond the end of the support 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 (A) Fig. 9. 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.

▲WARNING Keep the cord away from the cutting area (Figs. 15A and 15B).

Do not force the cut. Let the saw do the cutting at the rate of speed based on the type of cut and the workpiece. When the cut is complete, release the switch and allow the blade to stop before lifting the saw from the workpiece. On through-cuts, be sure that the lower blade guard is closed, before putting the saw down.



CROSS-CUTTING

Cutting directly across the grain of a piece of lumber is called crosscutting. (Figs. 15A and 15B) illustrates a crosscut operation. Position the work so that the cut will be on the left (Figs. 15A and 15B).

RIPPING

Ripping is cutting wood lengthwise. This operation is performed in the same manner as crosscutting with the exception of supporting the workpiece. If the workpiece is supported on a large table, bench, or floor, several pieces of scrap stock approximately 1" thick should be placed beneath the material to allow clearance for the portion of the saw blade that extends thru the workpiece. Large sheets of paneling or thin plywood supported on saw horses should have 2 x 4's placed lengthwise between the horses and the workpiece to prevent it from sagging in the center.

For narrow rip cuts, use the rip guide, available as an accessory. You can guide the saw by keeping the inner face of the rip guide (Fig. 14) tight against the edge of the board.

For making wider cuts (plywood or other wide sheets), tack or clamp a wooden guide strip on the workpiece to guide the right edge of the saw base (Fig. 16).

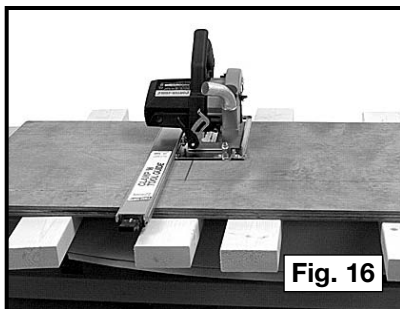


Fig. 16

NOTE: You will have to adjust the depth of cut to allow for the thickness of the wooden guide strip.

BEVEL CUTTING

Bevel cuts are made in the same manner as crosscuts and rip cuts, but the blade is set at an angle between 0° and 45° (Fig. 17).

The bevel cut made at an angle to the edge of a board is called a compound cut. Certain compound cuts require the manual retraction of the telescoping guard to allow the blade to enter or cut through the workpiece.

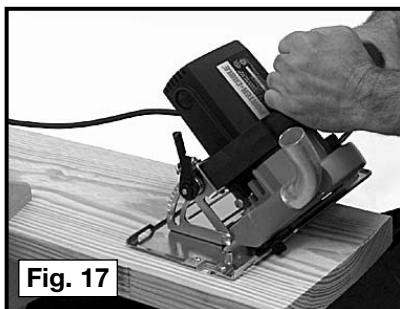


Fig. 17

⚠ WARNING Use the lever (A) (Figs. 15A and 15B) provided on the telescoping guard to retract the telescoping guard manually.

POCKET CUTS (PLUNGE CUTTING)

A pocket cut is made inside the area of the workpiece and not starting from the edge. Mark the area clearly with lines on all sides. Adjust your blade for the correct depth of cut. Start near the corner of one side and place front edge of the saw base firmly on the workpiece. Hold the rear of the saw up so that the blade clears the workpiece. Push the telescoping guard lever all the way back so that the blade is exposed (Fig. 18).

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 to the corner. Use a keyhole or bayonet saw to cut the corners clean.

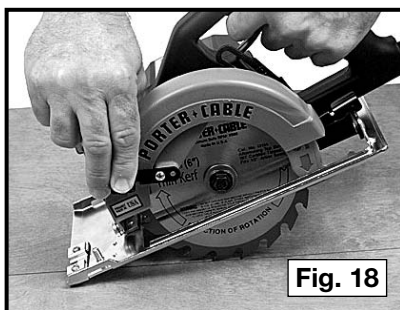


Fig. 18

CAUTION When making pocket cuts in stone, tile, etc., using the 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 www.porter-cable.com 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.

▲ WARNING 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.

▲ WARNING 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.

To obtain information on warranty performance please write to: PORTER-CABLE CORPORATION, 4825 Highway 45 North, Jackson, Tennessee 38305; Attention: Product Service. THE FOREGOING OBLIGATION IS PORTER-CABLE'S SOLE LIABILITY UNDER THIS OR ANY IMPLIED WARRANTY AND UNDER NO CIRCUMSTANCES SHALL PORTER-CABLE BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES. Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

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

PORTER-CABLE • DELTA SERVICE CENTERS (CENTROS DE SERVICIO DE PORTER-CABLE • DELTA) (CENTRE DE SERVICE PORTER-CABLE • DELTA)

**Parts and Repair Service for Porter-Cable • Delta Power Tools are Available at These Locations
(Obtenga Refaccion de Partes o Servicio para su Herramienta en los Siguientes Centros de Porter-Cable • Delta)
(Locations où vous trouverez les pièces de rechange nécessaires ainsi qu'un service d'entretien)**

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Tempe 85282 (Phoenix)
2400 West Southern Avenue
Suite 105
Phone: (602) 437-1200
Fax: (602) 437-2200

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3949A East Guasti Road
Phone: (909) 390-5555
Fax: (909) 390-5554

San Diego 92111

7638 Clairemont Blvd.
Phone: (858) 277-9595
Fax: (858) 277-9696

San Leandro 94577 (Oakland)

3039 Teagarden Street
Phone: (510) 357-9762
Fax: (510) 357-7939

COLORADO

Arvada 80003 (Denver)
8175 Sheridan Blvd., Unit S
Phone: (303) 487-1809
Fax: (303) 487-1868

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Davie 33314 (Miami)
4343 South State Rd. 7 (441)
Unit #107
Phone: (954) 321-6635
Fax: (954) 321-6638

Tampa 33609

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Phone: (813) 877-9585
Fax: (813) 289-7948

GEORGIA

Forest Park 30297 (Atlanta)
5442 Frontage Road,
Suite 112
Phone: (404) 608-0006
Fax: (404) 608-1123

ILLINOIS

Addison 60101 (Chicago)
400 South Rohlfing Rd.
Phone: (630) 424-8805
Fax: (630) 424-8895

Woodridge 60517 (Chicago)

2033 West 75th Street
Phone: (630) 910-9200
Fax: (630) 910-0360

MARYLAND

Elkridge 21075 (Baltimore)
7397-102 Washington Blvd.
Phone: (410) 799-9394
Fax: (410) 799-9398

MASSACHUSETTS

Franklin 02038 (Boston)
Franklin Industrial Park
101E Constitution Blvd.
Phone: (608) 520-8802
Fax: (608) 528-8089

MICHIGAN

Madison Heights 48071 (Detroit)
30475 Stephenson Highway
Phone: (248) 597-5000
Fax: (248) 597-5004

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Minneapolis 55429
5522 Lakeland Avenue North
Phone: (763) 561-9080
Fax: (763) 561-0653

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Phone: (816) 221-2070
Fax: (816) 221-2897

St. Louis 63119

7574 Watson Road
Phone: (314) 968-9950
Fax: (314) 968-2790

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175-25 Horace Harding Expwy.
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Fax: (718) 423-9619

NORTH CAROLINA

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9129 Monroe Road, Suite 115
Phone: (704) 841-1176
Fax: (704) 708-4625

OHIO

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4560 Indianola Avenue
Phone: (614) 263-0929
Fax: (614) 263-1238

Cleveland 44125
8001 Sweet Valley Drive
Unit #19
Phone: (216) 447-9030
Fax: (216) 447-3097

OREGON

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4916 NE 122 nd Ave.
Phone: (503) 252-0107
Fax: (503) 252-2123

PENNSYLVANIA

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Phone: (215) 658-1430
Fax: (215) 658-1433

TEXAS

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Fax: (972) 446-8157

Houston 77043

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Suite 180
Phone: (713) 983-9910
Fax: (713) 983-6645

WASHINGTON

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3320 West Valley HWY, North
Building D, Suite 111
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Calgary, Alberta
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Fax: (403) 735-6144

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Burnaby, B.C.
V5A 4T8
Phone: (604) 420-0102
Fax: (604) 420-3522

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Winnipeg, Manitoba
R3H 0H2
Phone: (204) 633-9259
Fax: (204) 632-1976

ONTARIO

505 Southgate Drive
Guelph, Ontario
N1H 6M7
Phone: (519) 767-4132
Fax: (519) 767-4131

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1515 Ave.
St-Jean Baptiste, Suite 160
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