

**Instruction
manual**

**Double Insulated
Plunge Router**



MODEL 8529

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. 911771 - 02-11-05

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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

1. **Hold power tools by insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring or its own cord.** Contact with a "live" wire will make exposed metal parts of the tool "live" and shock the operator.
2. **Use clamps or other practical way 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.
3. **DISCONNECT TOOL FROM POWER SOURCE** before making adjustments or changing bits.
4. **TIGHTEN COLLET NUT** securely to prevent the bit from slipping.
5. **USE A CLAMP** or some other device to hold the workpiece rigidly in position. and clear the path of the tool of obstructions.
6. **PROVIDE CLEARANCE** under workpiece for router bit when through-cutting.
7. **CHECK TO SEE THAT THE CORD** will not "hang up" during routing operation.
8. **CLEAR THE ROUTER BIT AREA** before starting motor.
9. **MAINTAIN FIRM GRIP** on router to resist starting torque.
10. **KEEP HANDS CLEAR OF BIT** when motor is running to prevent personal injury.
11. **KEEP CUTTING PRESSURE CONSTANT.** Do not overload motor.
12. **LET THE MOTOR COME TO A COMPLETE STOP** before putting the tool down.
13. **NEVER TOUCH** router bits after use. They may be extremely hot.
14. **NEVER TIGHTEN COLLET NUT** without a bit.
15. **DO NOT USE ROUTER BITS** with a diameter in excess of 2-1/2" at RPM above 13,000. Router bits up to 3-1/2" in diameter can be used when speed control is set for 13,000 RPM or less.
16. **ALWAYS KEEP CHIP SHIELD** clean and in place.
17. **AVOID "CLIMB-CUTTING"** (see "Using The Router" section in this manual). "Climb-cutting" increases the chance for loss of control resulting in possible personal injury.
18. **DO NOT HAND-HOLD THE ROUTER IN AN UPSIDE-DOWN OR HORIZONTAL POSITION.** The motor can separate from the base if not properly attached according to the instructions.
19. **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.
20. **▲ 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
μF	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
	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

SAVE THESE INSTRUCTIONS!

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

- * Router
- * Offset wrench
- * Template guide adapter
- * $\frac{1}{2}$ " and $\frac{1}{4}$ " collets
- * 10-24 x $\frac{1}{4}$ " screws

FUNCTIONAL DESCRIPTION

FOREWORD

MODEL 8529's versatility - speed range of 10,000 to 23,000 RPM, collet sizes of $\frac{1}{4}$ " and $\frac{1}{2}$ ", dual plunge adjustments, and bit size up to $3\frac{1}{2}$ " diameter - allows it to handle the most demanding routing application. A $\frac{3}{8}$ " collet is available as an accessory.

ASSEMBLY

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

OPERATION

VACUUM HOSE

A standard 1" vacuum hose can be attached to the dust port to connect the tool to a vacuum cleaner or dust collection system (Fig.1).

TEMPLATE GUIDES

The templet guide insert is included with the router for use with optional templet guides. A wide variety of templet guides is available from your Porter-Cable/Delta supplier for use in pattern and templet routing operations.



Fig. 1

⚠ WARNING DISCONNECT TOOL FROM POWER SOURCE.

1. Remove the clear dust cover (A) Fig. 2., and the three clear dust cover retaining screws (B) (slotted screw-driver or T20 torque wrench).
2. With the motor at its highest position, move the plunge locking lever (B) Fig. 8 to the free motion position by rotating it to the left (in the operating position) as far as it will go. The lever will lock into position.

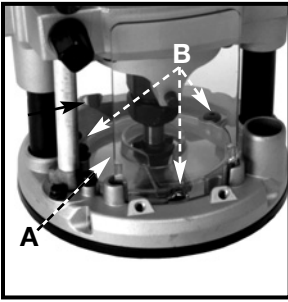


Fig. 2

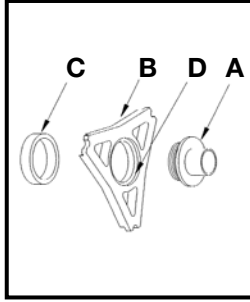


Fig. 3



Fig. 4

3. Insert the templet guide (A) Fig. 3 through the templet guide insert (B), and secure with a locknut (C). **NOTE:** Insert the templet guide through the side of the templet guide insert that has a recessed area (D) Fig. 3.
4. Turn the router upside down and stand it on the motor cap (Fig. 4).
5. Insert the templet guide insert into the center of the sub-base (Fig. 4).
6. Install the three screws provided (slotted screwdriver or T20 torque wrench) and tighten until they stop, then back out 1/2 turn.
7. Push the base down until the templet guide centers itself on the collet nut (D) Fig. 8, and hold in this position (Fig. 4A).
8. Move the plunge locking lever (C) Fig. 8 to the lock position.
9. Tighten the three screws securely.
10. Push down on the base and move the plunge locking lever (B) Fig. 8 back to the free motion position.
11. Allow the base to slowly move up until it stops (Fig. 4).
12. Reinstall clear dust cover and chip deflector.



Fig. 4A

NOTE: To ensure the proper dust collection operation, install the dust cover with the slot (A) Fig. 6 in top of dust cover. Position it opposite the flat side (B) Fig. 6 on the base.

NOTE: See Fig. 5 for proper orientation of templet guides.

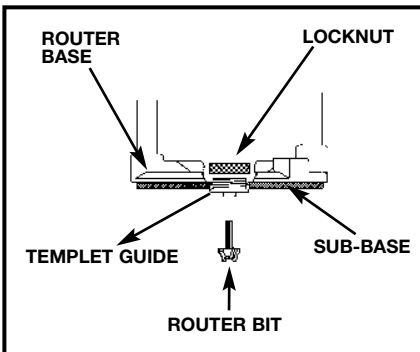


Fig. 5

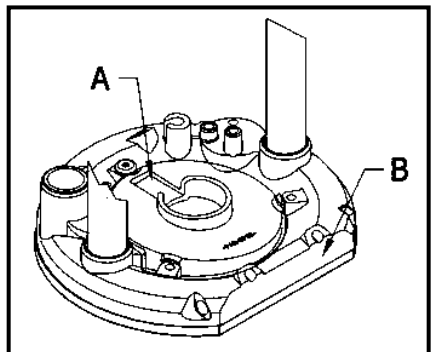


Fig. 6

SELECTING THE BIT

Model 8529 accommodates bits with $\frac{1}{4}$ " and $\frac{1}{2}$ " diameter shanks. A collet is also available for bits with $\frac{3}{8}$ " diameter shanks.

⚠ WARNING USE ROUTER BITS with a larger diameter than $2\frac{1}{2}$ " **ONLY** when speed control is set between 10,000 and 13,000 RPM.

⚠ WARNING DISCONNECT TOOL FROM POWER SOURCE when preparing the router for use, making adjustments, and when router is not in use.

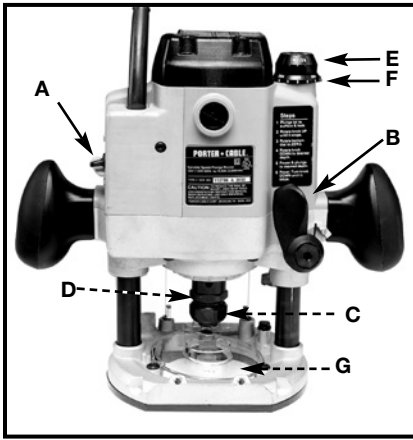


Fig. 8

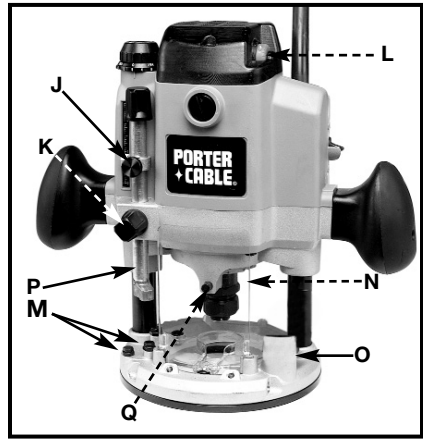


Fig. 9

- | | |
|--------------------------------------|------------------------------------|
| A On - Off Switch | J Depth Indicator/Knob |
| B Plunge Locking Lever | K Depth Rod Locking Knob |
| C Collet Nut | L Speed Control Knob |
| D Chuck | M Depth Stops |
| E Micro Plunge Adjusting Knob | N Chip Deflector |
| F Micro Plunge Adjusting Ring | O Dust Collector Inlet Tube |
| G Clear Dust Cover | P Depth Rod |
| | Q Spindle Lock |

INSTALLING AND REMOVING THE BIT

⚠ WARNING DISCONNECT TOOL FROM POWER SOURCE.

1. Remove chip deflector (N) Fig. 9.
2. If bit is too large to fit through the center hole of the dust cover (G) Fig. 8, remove the dust cover.
3. Turn the router upside down and stand it on the motor cap.
4. Clean and insert shank of bit into collet at least $\frac{3}{4}$ ". If shank "bottoms" in router, then back it out approximately $\frac{1}{16}$ " to allow proper tightening.
5. Engage spindle lock (Q) Fig. 9 by pressing on it while turning chuck (D) Fig. 8 until it locks into place.

6. Tighten collet nut (D) Fig. 10 with wrench provided.
7. To remove bit, loosen collet nut. If bit does not remove easily, continue to loosen the collet nut until the nut forces the collet retaining ring to lift and free collet.
8. Reinstall the chip deflector.

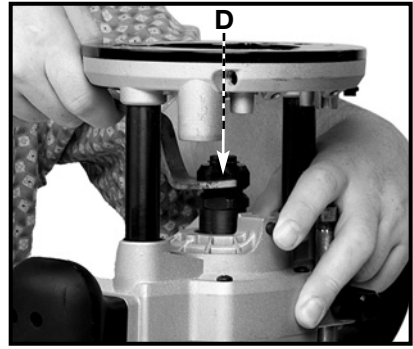


Fig. 10

ADJUSTING PLUNGE DEPTH

▲ WARNING DISCONNECT TOOL FROM POWER SOURCE.

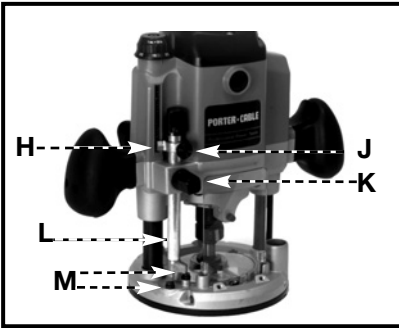


Fig. 11

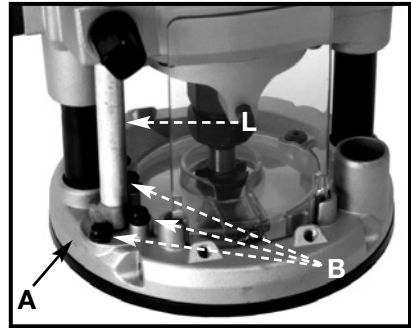


Fig. 12

1. Loosen depth rod locking knob (K) Fig. 11, and depth indicator knob, (J) Fig. 11, allowing the depth rod (L) Fig. 11 to contact one of the depth stops (M) Fig. 11. Normally the deepest cut is set with the depth rod (L) Fig. 12 resting on the base casting (A) Fig. 12. Adjust the three adjustable stops (B) Fig. 12 to any desired height to allow stock removal in steps. This action or the various depths that may be required for a particular job.
2. Release the plunge mechanism by pulling the locking lever (B) Fig. 8 to the left and lower the plunge mechanism until the router bit just touches the work surface. Release the lever and push to the right to lock the mechanism in this position.
3. Tighten the depth rod locking knob (K) Fig. 11.
4. Position the depth indicator (J) Fig. 11 at "O" position and tighten knob.
5. Loosen the depth rod locking knob (K) Fig. 11, and raise the depth rod until the indicator aligns with the graduation representing the desired depth of plunge (The example in Fig. 13 shows the setting for 1" plunge). Tighten the depth rod locking knob.



Fig. 13

MICRO PLUNGE ADJUSTMENT

Two separate uses for the micro plunge adjustment feature are:

1. Hand held plunge router. In this application, set the depth that the router will plunge. After making a test cut, increase or decrease the depth of plunge in very precise increments.
2. Shaper, mounted in a table. In this application, the micro-plunge adjusting knob can be used to make very small and precise adjustments to bit height.

For either application, set the micro-adjusting plunge mechanism to the neutral position by:

1. Moving the plunge locking lever (B) Fig. 8 to the free motion position by rotating it to the operator's left as far as it will go (the lever will lock into this position), and ensuring that a bit is not in the tool.
2. Move the motor up and down:
 - A. If the motor will not go all the way down to allow the collet to touch the work surface, the tool is in the micro-plunge adjusting mode. To return to the neutral position, push the motor down, and while maintaining pressure on the motor, turn the micro-plunge adjusting knob (E) Fig. 8 clockwise until the collet nut (D) Fig. 8 touches the surface of the work.
 - B. If the motor does not rise to the full height, the tool is in the shaper table adjusting mode. To return to the neutral position, turn the micro-plunge adjusting knob (E) Fig. 8 counterclockwise until the motor reaches its maximum height.

Always set the tool to the neutral position after each project is completed and before storing, so that it is ready to begin the next project.

NOTE: The maximum amount of plunge (maximum amount of motor travel) is approximately 2½". The micro adjusting plunge mechanism is in the neutral position when the motor will move up and down this amount (without a bit installed).

FOR USE AS HAND HELD ROUTER

▲ WARNING DISCONNECT TOOL FROM POWER SOURCE.

1. Set the micro-plunge adjusting mechanism to the neutral position.
2. Move the plunge locking lever (B) Fig. 8 to the free motion position by rotating it to the operator's left until it locks.
3. Raise the depth rod (P) Fig. 9 to its highest position.
4. Install the bit.
5. Plunge the router down by hand until the bit is flush with surface of the workpiece and hold firmly.
6. Turn the micro-plunge adjusting knob counterclockwise until you feel resistance. (Fig. 14).



Fig. 14

NOTE: This may require 20 or more revolutions.

7. Release the router.
8. Hold the micro-plunge adjusting knob (E) Fig. 15 while turning the micro-plunge adjusting ring (F) Fig. 15 until the "0" lines up with reference mark (A) Fig. 15 on the motor housing.

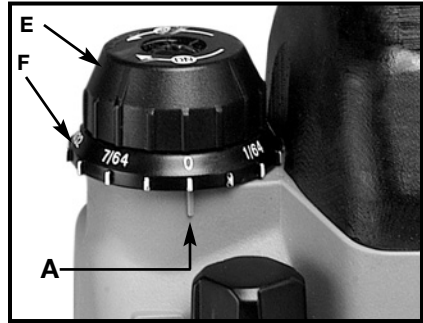


Fig. 15

NOTE: For every complete turn of the micro-plunge adjusting knob, the motor moves up or down $\frac{1}{8}$ ". The graduations on the micro-adjusting ring are marked in $\frac{1}{32}$ "

increments. To achieve a plunge of $\frac{1}{4}$ ", turn the micro-plunge adjusting knob 2 complete turns clockwise ($\frac{1}{8}$ " + $\frac{1}{8}$ " = $\frac{1}{4}$ "). To achieve a plunge of $\frac{5}{32}$ " turn the micro-plunge adjusting knob 1 complete turn and an additional quarter turn (one complete turn = $\frac{1}{8}$ " or $\frac{4}{32}$ " and $\frac{1}{4}$ turn = $\frac{1}{32}$ ").

NOTE: The micro-plunge adjusting ring will turn with the micro-plunge adjusting knob, so that the distance of bit travel is always known.

9. Turn the micro-plunge adjusting knob clockwise until the desired depth of plunge is set.
10. Set the plunge locking lever (B) Fig. 8 to the locked position after the plunge is adjusted and before the unit is turned "ON". Move the lever to the right as far as it will go.

NOTE: The depth rod and depth rod stops may be used in combination with the micro-plunge adjusting mechanism to allow stock removal in steps or to provide the various depths that may be required for a particular project.

FOR USE IN A SHAPER TABLE

▲ WARNING DISCONNECT TOOL FROM POWER SOURCE.

1. Set the micro-plunge adjusting mechanism to the neutral position.
2. Move the plunge locking lever (B) Fig. 8 to the free motion position by rotating it to the left until it locks into position.
3. Remove the sub-base (Fig. 5) and clear dust cover (G) Fig. 8.
4. Ensure that the "ON-OFF" switch (A) Fig. 8 is in the off position.
5. Install the bit.
6. Attach the router to the table according to the table manufacturer's instructions.
7. The bit height can be adjusted using the micro plunge adjusting knob. To raise the bit, turn the micro-plunge adjusting knob (E) Fig. 15 clockwise. To lower the bit, turn the knob counterclockwise.
8. The plunge locking lever (B) Fig. 8 should be set to the locked position after the bit height is adjusted and before the unit is turned on. Move the lever to the right as far as it will go.

ADJUSTING PLUNGE LOCKING LEVER

The plunge locking mechanism may be adjusted to compensate for wear, or to reposition lever (in locked position). To adjust:

⚠ WARNING DISCONNECT TOOL FROM POWER SOURCE.

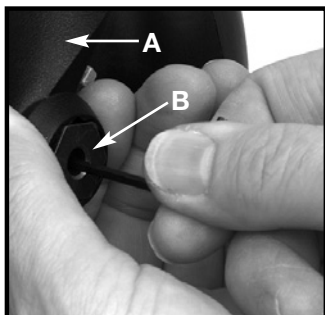


Fig. 16

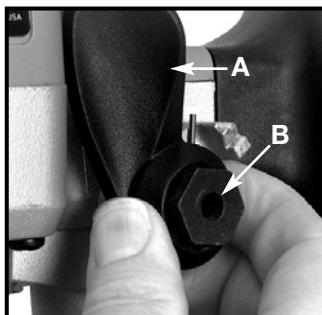


Fig. 17

1. Lock the plunge locking lever, (A) Fig. 17, by moving it to the operator's right as far as it will go.
2. Push in on the plunge locking lever (A) Fig. 17.
3. Move the plunge locking lever (A) Fig. 17 to the desired location and allow it to spring back into position.

Adjust the plunge locking mechanism in the following manner:

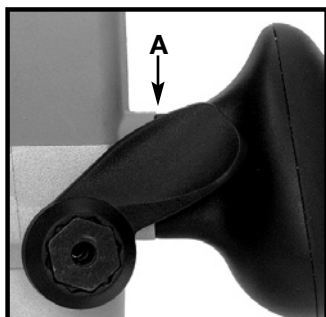


Fig. 18

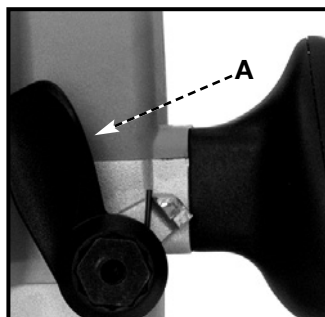


Fig. 19

1. Hold the plunge-locking lever (A) Fig. 16.
2. Insert $\frac{3}{32}$ " hex wrench (not furnished) through the center of the plunge locking bolt (B) Fig. 16 into the adjustment screw, and turn counterclockwise approximately one turn.
3. Push in on the plunge-locking lever (A) Fig. 17 to expose the head of plunge-locking bolt (B) Fig. 17.
4. While holding plunge-locking lever in (A) Fig. 17, turn plunge-locking bolt (B) Fig. 17 clockwise to turn the plunge-locking bolt in or counterclockwise to turn the plunge-locking bolt out. Turn it one position at a time until proper adjustment is achieved. Proper adjustment is indicated when the plunge- locking lever (A) Figs. 18 and 19 can be locked into the free motion position (Fig. 18), and into the plunge-locked position (Fig. 19).
5. Move plunge locking lever (A) Figs. 18 and 19 to the center of those 2 positions. Insert the allen wrench through the center of the plunge locking bolt (B) Fig. 16 into adjustment screw. Turn clockwise to tighten.

USING THE OPTIONAL ABOVE-TABLE HEIGHT ADJUSTER

The Above-Table Height Adjuster is an accessory that allows the operator to raise or lower the router, mounted in a shaper table, without reaching under the table. To install the Height Adjuster, drill a hole in the table at the location indicated on the templet, located in the back of this manual. Place the Height adjuster in the hole. The Height Adjuster shaft has a recessed hex that mates with a hex on the threaded shaft inside the left plunge post. To use, turn the knob clockwise to raise and counter-clockwise to lower. Each complete turn of the knob moves the motor 1/8".

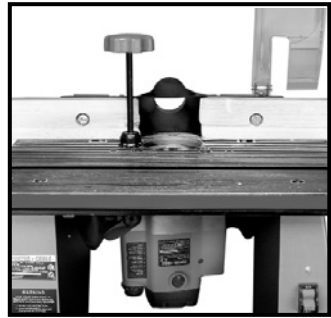


Fig. 20

The Height Adjuster can also be used for quick depth setting during normal routing when not using a table.

TO START AND STOP THE ROUTER

Make sure power circuit voltage is the same as that shown on the specification plate of the tool, and that the switch is "OFF". Connect the router to the power source.

Hold the tool in the operating position. Use the index finger on your right hand to raise the switch (A) Fig. 21 to the "ON" position. The tool will remain "ON" until you lower the switch (A).

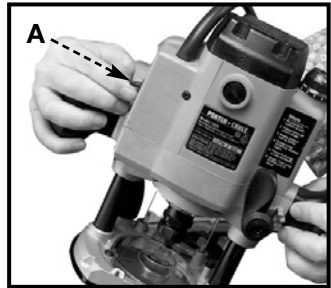


Fig. 21

VARIABLE SPEED CONTROL

This router is equipped with a variable speed control. The speed range is 10,000 to 23,000 RPM.

The speed is adjusted by turning the control knob (L) Fig. 9. The speed control knob is labeled 1 through 4. The slowest speed (1) is 10,000 RPM, and the highest speed (4) is 23,000 RPM. Setting 2 is approximately 14,000 RPM and setting 3 is approximately 18,000 RPM.

OVERLOAD PROTECTION

MODEL 8529 is equipped with a current sensing-type overload protector built into the variable speed control. This device will "trip" and turn the motor off if it experiences prolonged overloading. To restart the motor, move the "ON-OFF" switch to the "OFF" position, and then move it back to the "ON" position.

USING THE ROUTER

Periodically wipe columns clean with a dry cloth. **DO NOT** lubricate columns.

IMPORTANT

Before using your router, consider the kind and total amount of material to be removed. Depending on the material, more than one cut may be necessary to avoid overloading the motor. Before beginning the cut on the actual workpiece, make a sample cut on a piece of scrap lumber to show exactly how the cut will look as well as allowing the dimensions to be checked.

CAUTION

When through-cutting, be sure there is clearance under workpiece for router bit.

CAUTION

Always be sure the work is rigidly clamped or otherwise secured before making a cut.

Generally speaking, when working on a bench, use clamps to hold the workpiece. When routing edges, hold the router firmly down and against the work by both handles.

Since the cutter rotates clockwise (when viewing router from top), more efficient cutting will be obtained if the router is moved from left to right as you stand facing the work. When working on the inside of a templet, move router in clockwise direction.

When working on the outside of a templet, move router in a counter-clockwise direction.

WARNING

Avoid “Climb-Cutting” (cutting in direction opposite that shown in Fig. 22). “Climb-Cutting” increases the chance for loss of control resulting in possible personal injury. When “Climb-Cutting” is required (backing around a corner), exercise extreme caution to maintain control of the router.

The speed and depth of cut will depend largely on the type of workpiece. Keep the cutting pressure constant but do not crowd the router so the motor speed slows excessively. More than one pass at various settings on hardwoods or problem materials may be necessary to get the desired depth of cut.

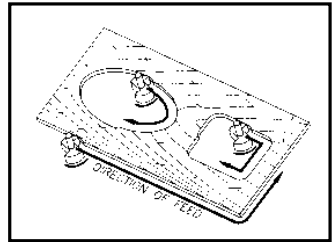


Fig. 22

When making cuts on all four edges of the workpiece, make the first cut on the end of the piece across the grain. Thus, if chipping of wood occurs at the end of a cut, it will be removed when making the next cut parallel with the grain.

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.

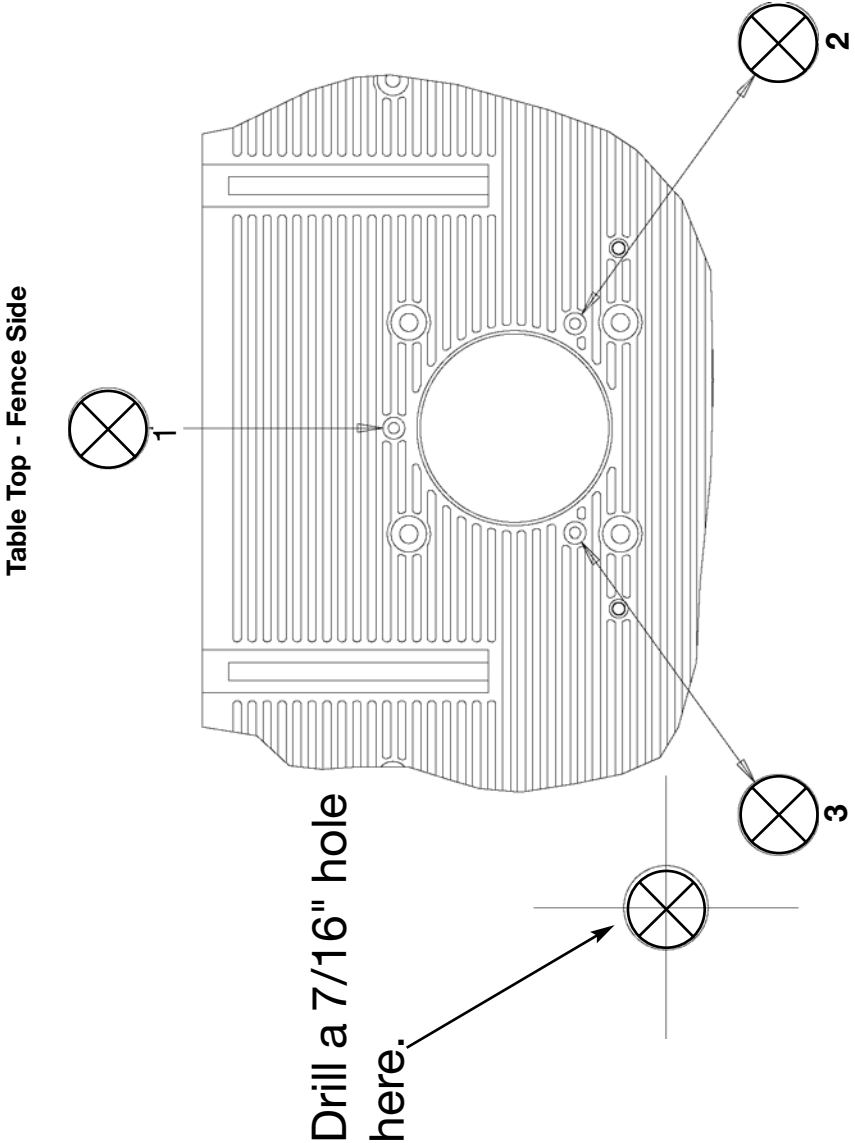
ANY IMPLIED WARRANTY, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WILL LAST ONLY FOR ONE (1) YEAR FROM THE DATE OF PURCHASE.

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.

ROUTER HEIGHT ADJUSTER TEMPLER

Remove this page from your manual and place it on your router table so that the holes (1, 2, and 3) line up with the holes in your table. Mark the place indicated. Drill a 7/16" hole at that point.



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

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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

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

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Unit #107
Phone: (954) 321-6635
Fax: (954) 321-6638

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

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

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

Woodridge 60517 (Chicago)
2033 West 75th Street
Phone: (630) 910-9200
Fax: (630) 910-0360

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

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Franklin Industrial Park
101E Constitution Blvd.
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Fax: (508) 528-8089

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Fax: (248) 597-5004

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5522 Lakeland Avenue North
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Fax: (763) 561-0653

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Fax: (816) 221-2897

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Fax: (314) 968-2790

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Fax: (718) 423-9619

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

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Phone: (614) 263-0929
Fax: (614) 263-1238

Cleveland 44125

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

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Phone: (503) 252-0107
Fax: (503) 252-2123

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Fax: (713) 983-6645

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Fax: (403) 735-6144

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Fax: (519) 767-4131

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