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Instruction manual

Router



Model 690LR

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visit our website at:

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

PORTER-CABLE
PROFESSIONAL POWER TOOLS

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IMPORTANT

*Please be 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. 904372 - 01-08-02

 **WARNING: SOME DUST CREATED BY POWER SANDING, SAWING, GRINDING, DRILLING, AND OTHER CONSTRUCTION ACTIVITIES** contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- lead from lead-based paints,
- crystalline silica from bricks and cement and other masonry products, and
- arsenic and chromium from chemically-treated lumber.

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

GENERAL SAFETY RULES

 **WARNING: READ AND UNDERSTAND ALL INSTRUCTIONS.** Failure to follow all instructions listed below, may result in electric shock, fire and/or serious personal injury.

SAVE THESE INSTRUCTIONS.

WORK AREA

1. **Keep your work area clean and well lit.** Cluttered benches and dark areas invite accidents.
2. **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.** Power tools create sparks which may ignite the dust or fumes.
3. **Keep bystanders, children, and visitors away while operating a power tool.** Distractions can cause you to lose control.

ELECTRICAL SAFETY

1. **Grounded tools must be plugged into an outlet properly installed and grounded in accordance with all codes and ordinances. Never remove the grounding prong or modify the plug in any way. Do not use any adapter plugs. Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded.** If the tools should electrically malfunction or break down, grounding provides a low resistance path to carry electricity away from the user.
2. **Avoid body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is grounded.
3. **Don't expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
4. **Do not abuse the cord. Never use the cord to carry the tools or pull the plug from an outlet. Keep cord away from heat, oil, sharp edges or moving parts. Replace damaged cords immediately.** Damaged cords increase the risk of electric shock.
5. **When operating a power tool outside, use an outdoor extension cord marked "W-A" or "W".** These cords are rated for outdoor use and reduce the risk of electric shock.

PERSONAL SAFETY

1. **Stay alert, watch what you are doing, and use common sense when operating a power tool. Do not use tool while tired or under the influence of drugs, alcohol, or medication.** A moment of inattention while operating power tools may result in serious personal injury. power tools may result in serious personal injury.
2. **Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep your hair, clothing, and gloves away from moving parts.** Loose clothes, jewelry, or long hair can be caught in moving parts.
3. **Avoid accidental starting. Be sure switch is OFF before plugging in.** Carrying tools with your finger on the switch or plugging in tools that have the switch ON invites accidents.
4. **Remove adjusting keys or wrenches before turning the tool ON.** A wrench or a key that is left attached to a rotating part of the tool may result in personal injury.
5. **Do not overreach. Keep proper footing and balance at all times.** Proper footing and balance enable better control of the tool in unexpected situations.
6. **Use safety equipment. Always wear eye protection.** Dust mask, non-skid safety shoes, hard hat, or hearing protection must be used for appropriate conditions.


TOOL USE AND CARE

1. **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.
2. **Do not force tool. Use the correct tool for your application.** The correct tool will do the job better and safer at the rate for which it is designed.
3. **Do not use tool if switch does not turn it ON or OFF.** A tool that cannot be controlled with the switch is dangerous and must be repaired.
4. **Disconnect the plug from the power source before making any adjustments, changing accessories, or storing the tool.** Such preventive safety measures reduce the risk of starting the tool accidentally.
5. **Store idle tools out of reach of children and other untrained persons.** Tools are dangerous in the hands of untrained users.
6. **Maintain tools with care. Keep cutting tools sharp and clean.** Properly maintained tools, with sharp cutting edges are less likely to bind and are easier to control.
7. **Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tool's operation. If damaged, have the tool serviced before using.** Many accidents are caused by poorly maintained tools.
8. **Use only accessories that are recommended by the manufacturer for your model.** Accessories that may be suitable for one tool may become hazardous when used on another tool.



SERVICE







1. **Tool service must be performed only by qualified repair personnel.** Service or maintenance performed by unqualified personnel may result in a risk of injury.
2. **When servicing a tool, use only identical replacement parts. Follow instructions in the Maintenance Section of this manual.** Use of unauthorized parts or failure to follow Maintenance Instructions may create a risk of electric shock or injury.

ADDITIONAL SAFETY RULES FOR ROUTERS

1. **HOLD TOOL BY INSULATED GRIPPING SURFACES WHEN PERFORMING AN OPERATION WHERE THE CUTTING TOOLS 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. **TIGHTEN COLLET NUT SECURELY** to prevent the bit from slipping.
3. **PROVIDE CLEARANCE** under workpiece for router bit when through-cutting.
4. **CHECK TO SEE THAT THE CORD** will not "hang up" during operation.
5. **CLEAR THE ROUTER BIT AREA** before starting motor.
6. **MAINTAIN FIRM GRIP ON TOOL** to resist starting torque.
7. **KEEP HANDS CLEAR OF BIT WHEN MOTOR IS RUNNING** to prevent personal injury.
8. **LET THE MOTOR COME TO A COMPLETE STOP** before putting the tool down.
9. **NEVER TOUCH ROUTER BITS AFTER USE.** They may be extremely hot.
10. **AVOID "CLIMB-CUTTING".** (See section "USING THE ROUTER" in this manual). "Climb-cutting" increases the chance for loss of control resulting in possible personal injury.
11. **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 (See "ATTACHING THE MOTOR TO THE ROUTER") section.
12. **SOME WOOD CONTAINS PRESERVATIVES WHICH CAN BE TOXIC.** Take extra care to prevent inhalation and skin contact when working with these materials. Request, and follow, any safety information available from your material supplier.
13.  **WARNING:** There are certain applications for which this tool was designed. Porter-Cable strongly recommends that this tool NOT be modified and/or used for any application other than that for which it was designed. If you have questions relative to its application, DO NOT use the tool until you have written Porter-Cable and we have advised you.

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

SYMBOL	DEFINITION
V	volts
A	amperes
Hz	hertz
W	watts
kW	kilowatts
μF	microfarads
l	liters
kg	kilograms
N/cm ²	newtons per square centimeter
Pa	pascals
h	hours
min	minutes
s	seconds
	alternating current
3 	three-phase alternating current

3N	.....	three-phase alternating current with neutral
	.....	direct current
n_0	.....	no load
	.....	alternating or direct current
	.....	Class II Construction
	.....	splash-proof construction
	.....	watertight construction
.../min	.....	revolutions or reciprocation per minute

REPLACEMENT PARTS

When servicing use only identical replacement parts.

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.
		230V	50 Ft.	100 Ft.	200 Ft.	300 Ft.	400 Ft.	500 Ft.	600 Ft.	800 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

FUNCTIONAL DESCRIPTION

FOREWORD

The Porter Cable Model 690LR is a router designed for continuous operation to handle the most demanding applications.

OPERATING INSTRUCTIONS

SELECTING THE BIT

This tool accommodates bits with 1/4" and 1/2" diameter shanks that are installed directly into the power unit collet. The 690LR comes furnished with 1/4" and 1/2" diameter collets. Collets are available to allow the use of bits having 3/8" diameter shanks.

CAUTION: Do not use router bits with a diameter in excess of 2-1/8" in this tool.

CAUTION: ALWAYS disconnect this tool from the power source when preparing the tool for use, when making adjustments, and when the tool is not in use.

INSTALLING AND REMOVING THE BIT

1. **CAUTION: DISCONNECT TOOL FROM POWER SOURCE.**

2. Remove the motor unit from the base unit.

(a) Open the clamp (A) Fig. 1.

(b) While holding the base, turn the motor unit COUNTER-CLOCK-WISE until the lower pin (B) in the motor housing is disengaged from the groove in the base.

(c) Lift the motor unit from the base unit.

3. Clean and insert the shank of the bit into the collet until the shank bottoms. Then back it out approximately 1/16".

4. Lay the motor unit on its side on a supporting surface with the collet pointed **AWAY** from you.

5. Place one wrench on the flats of the chuck with the opposite end of the wrench resting on the bench to your left (Fig. 2).

6. Place the other wrench on the collet and **FIRMLY** tighten the collet.

7. To remove the bit, reverse the procedure.

AVOID POSSIBLE DAMAGE TO COLLET. Never tighten collet without bit.

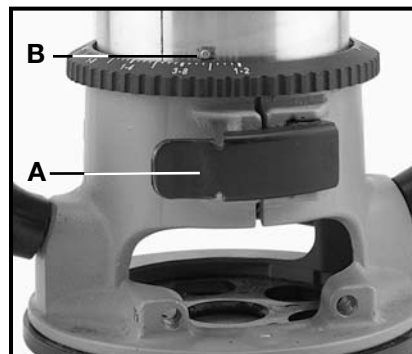


Fig. 1

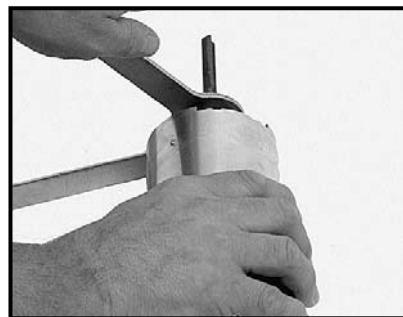


Fig. 2

ATTACHING THE MOTOR TO THE ROUTER

1. **CAUTION: DISCONNECT TOOL FROM POWER SOURCE.**
2. Open the clamp (A) Fig. 1, and set the power unit in the base unit.
3. Align the lower pin of the motor unit (B) Fig. 1 with the groove in the base.
4. Rotate the motor unit **CLOCKWISE** into the base until the upper guide pins are set in the groove of the base.
5. Close the clamp.

ADJUSTING DEPTH OF CUT

1. **CAUTION: DISCONNECT TOOL FROM POWER SOURCE.**
2. Open the clamp (A) Fig. 3.
3. Hold the base (E), and turn the motor unit (F) Fig. 3 **COUNTER-CLOCK-WISE** until the tip of the bit is above the bottom of the base.
4. Set the router on a flat surface.
5. Turn the motor unit (F) Fig. 3 **CLOCKWISE** until bit touches the work.
6. Close the clamp (A) Fig. 3.
7. Rotate the depth adjusting ring (B) Fig. 3 until the zero-line (C) is opposite the index line (D) on the housing.
8. Open the clamp (A) Fig. 3.
9. Tip the router so that the bit is clear of the wood surface. Turn the motor unit (F) Fig. 3 **CLOCKWISE** until the index line (D) on the motor housing reaches the desired depth indicated on the ring.
10. Close the clamp (A) Fig. 3.

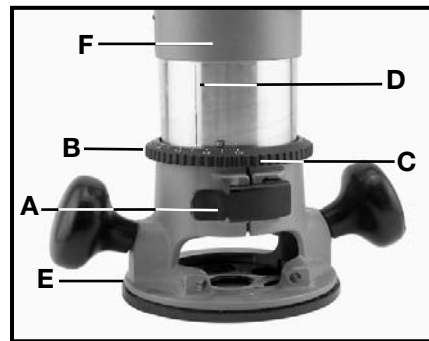


Fig. 3

NOTE: Setting the index line to 1/4" on the ring means the cutting edge of the bit is exposed 1/4" below the base.

ADJUSTING SUB-BASE ALIGNMENT

Applications using a templet guide require the bit to be centered in the guide. This, in turn, requires the center hole in the sub-base to be in line with the collet of the motor unit. Model 690LR has an adjustable sub-base which has been aligned at the factory. To readjust:

CAUTION: Be sure that the power switch is in the "OFF" or "O" position and that the machine is disconnected from the power source to avoid accidental starting of the motor which could result in personal injury.

1. Loosen the sub-base mounting screws just enough to allow the sub-base to move on the base.

2. Open the clamp (C) Fig. 4, and adjust the motor so that the collet nut engages the center hole in the sub-base. Allow the sub-base to center itself on the collet nut. Close the clamp.
3. Tighten the sub-base mounting screws securely.

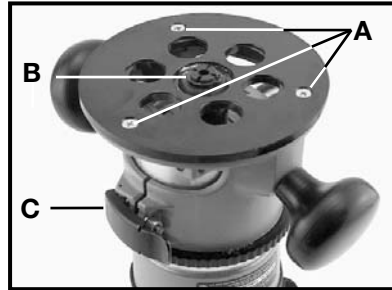


Fig. 4

CONNECTING TO THE POWER SOURCE

CAUTION: Before connecting the tool to the power source, **BE CERTAIN THAT THE SWITCH IS IN THE “OFF” or “O” POSITION.**

Also check to see that the power circuit is the same as that shown on specification plate of the router.

STARTING AND STOPPING THE MOTOR

CAUTION: Before starting the tool, ensure that the bit is free of foreign objects. Also keep a firm grip on the tool to resist starting torque.

To start the tool, move the rocker switch (A) Fig. 5 to the “ON” or “-” position. To stop the tool, move the rocker switch to the “OFF” or “O” position.

CAUTION: To avoid personal injury or damage to finished work, always allow the motor to come to a **COMPLETE STOP** before putting it down.



Fig. 5

USING THE ROUTER

IMPORTANT: Before using the tool, consider the workpiece. 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. This action will show exactly how the cut will look, and will enable you to check dimensions.

CAUTION: Always secure the work to a stable surface prior to routing.

Generally, the workpiece should be secured to the bench by clamps. When routing edges, the router should be held firmly down and against the work by both guiding knobs.

Since the cutter rotates clockwise (when viewing router from top), move the router from left to right to obtain a more efficient cutting. (Fig. 6).

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

⚠ WARNING: Avoid "Climb-Cutting" (cutting in direction opposite that shown in Fig. 6). "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 work material. Keep the cutting pressure constant, but do not use so much pressure that the motor speed slows excessively. More than one pass at various settings may be necessary.

When making cuts on all four edges of the workpiece, start the first cut on the end of the piece across the grain to minimize chipping of the wood at the end of a cut.

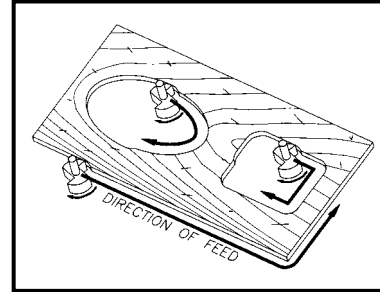


Fig. 6

THE EDGE GUIDE

An edge guide is available as an accessory to aid in straight edge planing, parallel grooving, dado, or slotting operations.

To attach, insert the guide rods (A) Fig. 7 in holes in the base, and secure it with screws (B). Adjust the guide (C) on the rods and secure it in position with the thumb screws (D).

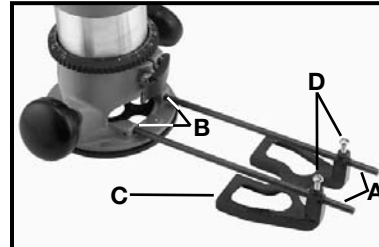


Fig. 7

TEMPLER GUIDES

A wide variety of templet guides is available for use in pattern and templet routing operations. Fig. 8 shows a typical combination bit, templet guide, and locknut.

CAUTION: DISCONNECT TOOL FROM POWER SOURCE.

To install, insert the templet guide in the center hole in the router base and secure it in place with a locknut.

BEFORE CONNECTING THE ROUTER TO THE POWER SOURCE, Install the bit. Adjust the depth of cut and rotate the router chuck by hand, checking to see that the bit or collet do not contact templet guide.

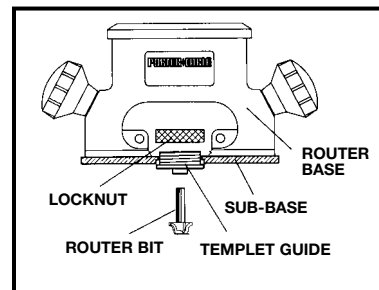


Fig. 8

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.

CAUTION: Wear 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 AND LUBRICATION

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 lubricate 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 AND REPAIRS

All quality tools will eventually require servicing or replacement of parts due to wear from normal use. These operations, including brush inspection and replacement, should ONLY be performed by either an AUTHORIZED PORTER-CABLE SERVICE STATION or a PORTER-CABLE/DELTA FACTORY SERVICE CENTER. All repairs made by these agencies are fully guaranteed against defective material and workmanship. We cannot guarantee repairs made or attempted by anyone other than these agencies.

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. To get a catalog, or to find the name of the nearest supplier, visit our Web Site www.porter-cable.com.

⚠ 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, use only Porter-Cable Delta

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, P.O. Box 2468, Jackson, Tennessee 38302-2468; 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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CALIFORNIA Ontario 91761 (Los Angeles) 3949A East Guasti Road Phone: (909) 390-5555 Fax: (909) 390-5554	Woodridge 60517 (Chicago) 2033 West 75th Street Phone: (630) 910-9200 Fax: (630) 910-0360	MISSOURI North Kansas City 64116 1141 Swift Avenue P.O. Box 12383 Phone: (816) 221-2070 Fax: (816) 221-2897	OREGON Portland 97230 4916 NE 122 nd Ave. Phone: (503) 252-0107 Fax: (503) 252-2123
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Authorized Service Stations are located in many large cities. Telephone **800-487-8665** or **731-541-6042** for assistance locating one. Parts and accessories for Porter-Cable • Delta products should be obtained by contacting any Porter-Cable • Delta Distributor, Authorized Service Center, or Porter-Cable • Delta Factory Service Center. If you do not have access to any of these, call **888-848-5175** and you will be directed to the nearest Porter-Cable • Delta Factory Service Center. Las Estaciones de Servicio Autorizadas están ubicadas en muchas grandes ciudades. Llame al **800-487-8665** ó al **731-541-6042** para obtener asistencia a fin de localizar una. Las piezas y los accesorios para los productos Porter-Cable • Delta deben obtenerse poniéndose en contacto con cualquier distribuidor Porter-Cable • Delta, Centro de Servicio Autorizado o Centro de Servicio de Fábrica Porter-Cable • Delta. Si no tiene acceso a ninguna de estas opciones, llame al **888-848-5175** y le dirigirán al Centro de Servicio de Fábrica Porter-Cable • Delta más cercano. Des centres de service agréés sont situés dans beaucoup de grandes villes. Appelez au **800-487-8665** ou au **731-541-6042** pour obtenir de l'aide pour en repérer un. Pour obtenir des pièces et accessoires pour les produits Porter-Cable • Delta, s'adresser à tout distributeur Porter-Cable • Delta, centre de service agréé ou centre de service d'usine Porter-Cable • Delta. Si vous n'avez accès à aucun de ces centres, appelez le **888-848-5175** et on vous dirigera vers le centre de service d'usine Porter-Cable • Delta le plus proche.

CANADIAN PORTER-CABLE • DELTA SERVICE CENTERS

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