Instruction manual

ESPAÑOL: PÁGINA 15 FRANÇAISE : PAGE 29

Double Insulated Angle Grinder



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

http://www.porter-cable.com



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. _____

Туре _____

Serial No.

Copyright © 2004 Porter-Cable Corporation

TABLE OF CONTENTS ENGLISH SECTION ONLY

IMPORTANT SAFETY INSTRUCTIONS
GENERAL SAFETY RULES
ADDITIONAL SPECIFIC SAFETY RULES
CARTON CONTENTS
FUNCTIONAL DESCRIPTION
ASSEMBLY
OPERATION
TROUBLESHOOTING
MAINTENANCE
SERVICE 14
ACCESSORIES
WARRANTY
ESPAÑOL 15
FRANÇAISE
SERVICE CENTER LOCATIONSback cover

IMPORTANT SAFETY INSTRUCTIONS

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

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

Online contact form at www.porter-cable.com

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

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

Power Tool Institute

1300 Sumner Avenue, Cleveland, OH 44115-2851

www.powertoolinstitute.org

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

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

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.

	indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
A WARNING	indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
	indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.
CAUTION	used without the safety alert symbol indicates potentially hazardous situation which, if not avoided, may result in property damage.

CALIFORNIA PROPOSITION 65

AWARNING Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known (to the State of California) to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

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

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, always wear MSHA/NIOSH approved, properly fitting face mask or respirator when using such tools.

GENERAL SAFETY RULES*

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



SAVE THESE INSTRUCTIONS

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

2) Electrical safety

- a) Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock
- b) Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- c) **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock
- d) Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- e) When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.

3) Personal safety

- a) Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
- b) **Use safety equipment. Always wear eye protection.** Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- c) Avoid accidental starting. Ensure the switch is in the off-position before plugging in. Carrying power tools with your finger on the switch or plugging in power tools that have the switch on invites accidents.

4

*The text used in the General Safety Rule section of this manual is verbatim, as required, from the applicable UL60745 3rd edition standard.

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 jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery 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.

*The text used in the General Safety Rule section of this manual is verbatim, as required, from the applicable UL60745 3rd edition standard.

ADDITIONAL SPECIFIC SAFETY RULES

1. Always use proper guard with grinding wheel. A guard protects operator from broken wheel fragments.

- 2. Accessories must be rated for at least the speed recommended on the tool warning label. Wheels and other accessories running over rated speed can fly apart and cause injury.
- 3. 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.
- 4. Always use an approved guard with those accessories that require a guard.
- 5. Use proper safety equipment. Wear safety goggles to protect your eyes and wear a protective mask to minimize breathing in the fine dust created while sanding. NOTE: Some wood contains preservatives which can be toxic. Take extra care to prevent inhalation and skin contact when working with these materials.
- 6. Sanding of lead-based paint is not recommended. Lead-based paint should only be removed by a professional.
- 7. Do not install woodcarving blade on this grinder.
- 8. 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.

SYMBOL	,	DEFINITION					
V		volts					
А		amperes					
Hz		hertz					
W		watts					
kW		kilowatts					
F		farads					
μF		microfarads					
I		litres					
g		grams					
kg		kilograms					
bar		bars					
Pa		pascals					
h		hours					
min		minutes					
S		seconds					
n _o		no-load speed					
/min d	ormin ⁻¹	Revolutions or reciprocations per minute					
oi	r d.c	direct current					
	ra.c	alternating current					
2 🔨		two-phase alternating current					
2N 🔨		two-phase alternating current with neutral					
з 🔨		three-phase alternating current					
3ℕ ∕∕		three-phase alternating current with neutral					
A		rated current of the appropriate fuse-link in amperes ${\bf 6}$					

x time-lag miniature fuse-link where X is the symbol for the time/current characteristic, as given in IEC 60127 protective earth IPXX IP symbol

ADDITIONAL SAFETY RULES FOR PAINT REMOVAL

AWARNING Extreme care should be taken when removing paint. The peelings, residue, and vapors of paint may contain lead, which is poisonous. Exposure to even low levels of lead can cause irreversible brain and nervous system damage. Young and unborn children are particularly vulnerable.

Before beginning any paint removal process you should determine whether the paint you are removing contains lead. This can be done by your local health department or by a professional who uses a paint analyzer to check for lead.

Lead-based paint should only be removed by a professional.

Persons removing paint should follow these guidelines:

1. Keep the work area well ventilated. Open the windows and put an exhaust fan in one of them. Be sure the fan is moving air from inside to outside.

2. Remove or cover any carpets, rugs, furniture, clothing, cooking utensils, and air ducts. Such preventive safety measures reduce the risk of exposure.

3. Place drop cloths in the work area to catch any paint chips or peelings. Wear protective clothing such as extra work shirts, overalls and hats. Such preventive safety measures reduce the risk of exposure.

4. Work in one room at a time. Furnishings should be removed or placed in the center of the room and covered. Work areas should be sealed off from the rest of the dwelling by sealing doorways with drop cloths.

5. Children, pregnant, or potentially pregnant women and nursing mothers should not be present in the work area until the work is done and all cleanup is complete. Such preventive safety measures reduce the risk of injury.

6. Wear a dust respirator or a dual filter (dust and fume) respirator mask which has been approved by the Occupational Safety and Health Administration (OSHA), the National Institute of Safety and Health (NIOSH), or the United States Bureau of Mines. These masks and replaceable filters are readily available at major hardware stores. Be sure the mask fits. Beards and facial hair may keep the masks from sealing properly. Change filters often. DISPOSABLE PAPER MASKS ARE NOT ADEQUATE.

7. Keep food and drink out of the work area. Wash hands, arms, and face and rinse mouth before eating or drinking. Do not smoke or chew gum or tobacco in the work area.

8. Clean up all removed paint and dust by wet mopping the floors. Use a wet cloth to clean all walls, sills and any other surfaces where paint or dust is clinging. DO NOT SWEEP, DRY DUST OR VACUUM. Use a high phosphate detergent or trisodium (TSP) to wash and mop areas.

9. At the end of each work session, put the paint chips and debris in a double plastic bag, close it with tape or twist ties and dispose properly. Such preventive safety measures reduce the risk of exposure.

10. Remove protective clothing and work shoes in the work area to avoid carrying dust into the rest of the dwelling. Wash work clothes separately. Wipe shoes off with a wet rag, then wash that rag with the work clothes. Wash hair and body thoroughly with soap and water.

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 PORTA	BLE 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

CARTON CONTENTS

- 1) Angle Grinder
- 2) Auxiliary Handle/Wrench
- 3) 4mm Hex Wrench
- 4) Service Parts List
- 5) Instruction Manual
- 6) Carrying Case

FUNCTIONAL DESCRIPTION

FOREWORD

Porter-Cable angle grinders are designed for numerous grinding operations. Typical applications are auto body grinding, smoothing welding beads, removing gates and flash from castings, removing rust and the like.

ASSEMBLY

NOTE: This tool is shipped completely assembled. Assembly time to install HANDLE, WHEEL GUARD and GRINDING WHEEL is required and should take 15 minutes or less. A 4mm hex wrench (supplied) is required to install the WHEEL GUARD. The HANDLE serves as an wrench to install the GRINDING WHEEL.

TO INSTALL AUXILIARY HANDLE

An auxiliary handle (H) Fig. 1 is furnished with this tool and can be installed on either side or on top of the front housing. THIS HANDLE SHOULD BE USED AT ALL TIMES TO MAINTAIN COMPLETE CONTROL OF THE TOOL.

TO INSTALL WHEEL GUARD

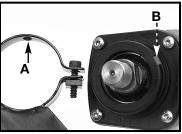
A **TYPE 27** wheel guard is furnished with the tool. A **TYPE 1** wheel guard is available as an accessory. Both guards are installed and adjusted in the same manner.



AWARNING Always use an approved and properly adjusted wheel guard.

AWARNING DISCONNECT TOOL FROM POWER SOURCE.

- 1. Rest the tool on its back with spindle facing up.
- Position the appropriate guard to the tool so that the three bosses (A) Fig. 2 (inside the guard mounting clamp) are aligned with the three notches (B) Fig. 2 in the mounting flange of the grinder.
- Seat the guard on the mounting flange. Rotate the guard to a position that will place the guard between the operator and the grinding wheel (or





any other accessory requiring a guard). Tighten the clamp screw (A) Fig. 3 to secure the guard in proper position for the grinding application (see Fig. 4).

AWARNING Always make sure that the wheel guard is positioned between the operator and the wheel, so that flying chips or pieces of a wheel that might break will be deflected away from the operator (see Fig. 4).



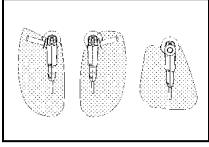


Fig. 3

Fig. 4

TO INSTALL GRINDING WHEEL

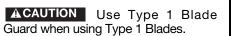
- 1. Rest the tool on its back with the spindle facing up.
- 2. Install and adjust the appropriate wheel guard following instructions in **"TO INSTALL WHEEL GUARD"** section of this manual.
- Position the inner flange (A) Fig. 5 on the spindle (C) with the round hub facing outward, away from tool. Rotate the flange until it drops into place on the spindle.

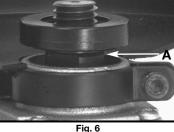
ACAUTION Use Type 1 Wheel Guard when using Type 1 Wheels.



NOTE: For **TYPE 1 Blades ONLY:** reverse the inner flange and assemble it to the spindle with the round hub facing inward, toward the tool (see A Fig. 6).

Fig. 5





- 4. Position grinding wheel to spindle.
- 5. Position outer blade flange to spindle and thread into place hand tight.

NOTE: For **TYPE 1** wheels, and for ¹/4" thick **TYPE 27** wheels, assemble with the hub side of the outer blade flange in the wheel bore (flat side of flange out, away from wheel), see (B) Fig. 7.

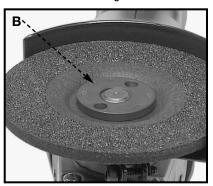


Fig. 7

For ¹/₈" thick **TYPE 27** wheels, assemble outer blade flange with flat side against the wheel (flange hub outward, away from wheel), see (C) Fig. 8.

- 6. Depress the spindle lock pin (E) Fig. 9, and hold while rotating the grinding wheel clockwise by hand until the spindle lock engages.
- Continue holding the spindle lock pin engaged while placing the lugs of the auxiliary handle/wrench (F) Fig. 9 into the holes of the outer blade flange. Tighten securely by turning clockwise.

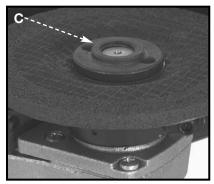


Fig. 8

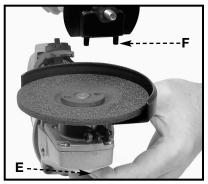


Fig. 9

TO INSTALL SANDING BACKUP KIT AWARNING DISCONNECT TOOL FROM POWER SOURCE.

- 1. Rest machine on its back, with spindle facing up.
- 2. Place the backup pad from kit onto the spindle.
- 3. Push retaining nut hub through an abrasive disc and position to spindle. Thread nut onto spindle finger tight.
- 4. Depress spindle lock pin (E) Fig. 10, and hold while rotating backup pad clockwise by hand until spindle lock engages.
- 5. While continuing to hold spindle lock pin engaged, grasp the backup pad and abrasive, and rotate clockwise to tighten (see Fig. 10).



Fig. 10

OPERATION

TO START AND STOP THE TOOL

AWARNING Make sure that the switch is "OFF" and power circuit voltage

is the same as that shown on the specification plate.

- 1. Connect the tool to the power circuit.
- 2. Grip the tool firmly to resist starting torque.
- 3. Slide the switch button (A) Fig. 11 forward to turn the tool "ON". When released, the switch button will return to the "OFF" position.
- 4. To lock the switch in the "ON" position, move the switch to the "ON" position and depress the front end of the switch button (A) Fig. 11. To



Fig. 11

release the switch lock, depress the rear end of the switch button.

ACAUTION Allow the tool spindle to stop rotating before putting the tool down.

USING A DISC GRINDER

Be certain that the wheel guard and auxiliary handle are installed.

Firmly grip the auxiliary handle and motor housing (Fig. 12). Lift up the rear of the motor housing so that only the front section of the grinding wheel contacts the work. Use light pressure. Always lift the grinder off the work before starting or stopping the motor. The arrow on the front gear housing indicates the direction in which the grinding wheel rotates.



Fig. 12

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.

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

FAILURE TO START

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

LUBRICATION

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

BRUSH INSPECTION (If applicable)

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

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

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

SERVICE

REPLACEMENT PARTS

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

SERVICE AND REPAIRS

All quality tools will eventually require servicing or replacement of parts due to wear from normal use. For assistance with your tool, visit our website at **<u>www.porter-cable.com</u>** 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 <u>www.porter-cable.com</u> 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)

ARIZONA

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

CALIFORNIA

Ontario 91761 (Los Angeles) 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

FLORIDA

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

Tampa 33609 4538 W. Kennedy Boulevard 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 Rohlwing 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: (508) 520-8802 Fax: (508) 528-8089

MICHIGAN

Madison Heights 48071 (Detroit) 30475 Stephenson Highway Phone: (248) 597-5000 Fax: (248) 597-5004 MINNESOTA Minneapolis 55429 5522 Lakeland Avenue North Phone: (763) 561-9080 Fax: (763) 561-0653

MISSOURI

North Kansas City 64116 1141 Swift Avenue Phone: (816) 221-2070 Fax: (816) 221-2897

St. Louis 63119 7574 Watson Road Phone: (314) 968-8950 Fax: (314) 968-2790

NEW YORK

Flushing 11365-1595 (N.Y.C.) 175-25 Horace Harding Expwy. Phone: (718) 225-2040 Fax: (718) 423-9619

NORTH CAROLINA

Charlotte 28270 9129 Monroe Road, Suite 115 Phone: (704) 841-1176 Fax: (704) 708-4625

OHIO Columbus 43214 4560 Indianola Av

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

Portland 97230 4916 NE 122 nd Ave. Phone: (503) 252-0107 Fax: (503) 252-2123

PENNSYLVANIA

Willow Grove 19090 (Philadelphia) 520 North York Road Phone: (215) 658-1430 Fax: (215) 658-1433

TEXAS

Carrollton 75006 (Dallas) 1300 Interstate 35 N, Suite 112 Phone: (972) 446-2996 Fax: (972) 446-8157

Houston 77043 4321 Sam Houston Parkway, West Suite 180 Phone: (713) 983-9910 Fax: (713) 983-6645

WASHINGTON

Auburn 98001(Seattle) 3320 West Valley HWY, North Building D, Suite 111 Phone: (253) 333-8353 Fax: (253) 333-9613

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. Lame 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 opcines, llame al 888-849-5175 y le dirigirán al Centro de Servicio de Fábrica Porter-Cable • Delta, Si no tiene acceso a ninguna de estas opcines, llame al 888-849-5175 y le dirigirán al Centro de Servicio de Fábrica Porter-Cable • Delta, acercano. 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'avaz accès à aucun de ces centres, appeler 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

ALBERTA Bay 6, 2520-23rd St. N.E. Calgary, Alberta T2E 8L2 Phone: (403) 735-6166 Fax: (403) 735-6144

BRITISH COLUMBIA 8520 Baxter Place Burnaby, B.C. V5A 4T8 Phone: (604) 420-0102 Fax: (604) 420-3522 MANI I OBA 1699 Dublin Avenue 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 QUÉBEC 1515 Ave. St-Jean Baptiste, Suite 160 Québec, P.Q. G2E 5E2 Phone: (418) 877-7112 Fax: (418) 877-7123 1447, Begin St-Laurent, (Mtl), P.Q.

St-Laurent, (Mtl), P.Q. H4R 1V8 Phone: (514) 336-8772 Fax: (514) 336-3505

The following are trademarks of PORTER-CABLE ● DELTA (Las siguientes son marcas registradas de PORTER-CABLE ● DELTA S.A.) (Les marques suivantes sont des marques de fabriquant de la PORTER-CABLE ● DELTA: Auto-Set*, BAMMER*, B.O.S.S.*, Builder's Saw*, Contractor's Saw*, Contractor's Saw "I'm, Delta*, DELTACRARF*, DELTAGRARF*, DELTAGRARF*, BAMSER*, B.O.S.S.*, Builder's Saw*, Contractor's Saw*, Contractor's Saw "I'm, Delta*, DELTACRARF*, DELTAGRARF*, DELTAGRARF*, BAMSERTONIC*, Enco**, FLEX-RAME*, MIDI LATHE*, MORTENT*, NETWORK**, DELTAGRARF*, DELTAGRARF*, PORTA-BAND*, PORTA-PLANE*, PORTER-CABLE*&(design), PORTER-CABLE*PROFESSIONAL POWER TOOLS, PORTER-CABLE REDEFINING PERFORMANCE**, PoerTA-CABLE*&(design), OUICKSAND*&(design), SAW BOSS*, Sawbuck**, SPEED-BLOC*, SPEEDFMORT, SPEEDTRNIC*, STARE GUARD I*, SARE+LOC*, Sanding Center*, SANDTRAP*&(design), SAW BOSS*, Sawbuck**, Sidekick*, SPEED-BLOC*, SPEEDTRNIC*, SPEEDTRNIC*, STARE FASE*, The American Woodshop*&(design), The Lumber Company*&(design), THE PROFESSIONAL EDGE*, THE PROFESSIONAL EDGE*, THE PROFESSIONAL SELECT*, THIN-LINE**, TIGER*, TIGER CUB*, TIGER SAW*, TOROBUSTER*, TORO-BUSTER*, TRU-MATCH**, WHISPER SERIES*, WOODWORKER'S CHOICE**.

Trademarks noted with [™] and [®] are registered in the United States Patent and Trademark Office and may also be registered in other countries. Las Marcas Registradas con el signo de [™] y [®] son registradas por la Oficina de Registros y Patentes de los Estados Unidos y también pueden estar registradas en otros países. Marques déposées, indiquées par la lettre [™] et [®], sont déposées au Bureau des brevets d'invention et marques déposées aux Etats-Unis et pourraient être déposées aux autres pays. 7,2-PTG-F-1