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# Instruction manual

# Double Insulated **QuickSand** Random Orbit Sander

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MODEL 335

## 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. 900007 (012)

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To learn more about Porter-Cable



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## IMPORTANT SAFETY INSTRUCTIONS

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**WARNING:** When using electric tools, basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injury, including the following:

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,

 $\cdot$  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.

#### READ AND FOLLOW ALL INSTRUCTIONS.

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 for which it was designed. If you have any 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

**POLARIZED PLUGS:** To reduce the risk of electric shock, this equipment has a polarized plug (one blade is wider than the other). This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install the proper outlet. Do not change the plug in any way.

1. KEEP WORK AREA CLEAN. Cluttered areas and benches invite injuries.

**2. AVOID DANGEROUS ENVIRONMENT.** Don't expose power tools to rain. Don't use power tools in damp or wet locations. Keep area well lit. Avoid chemical or corrosive environment. Do not use tool in presence of flammable liquids or gases.

**3. GUARD AGAINST ELECTRIC SHOCK.** Prevent body contact with grounded surfaces. For example: pipes, radiators, ranges, refrigerator enclosures.

**4. KEEP CHILDREN AWAY.** Do not let visitors contact tool or extension cord. All visitors should be kept away from work area.

5. **STORE IDLE TOOLS.** When not in use, tools should be stored in dry, and high or locked-up place – out of reach of children.

6. DON'T FORCE TOOL. It will do the job better and safer at the rate for which it was intended.

**7. USE RIGHT TOOL.** Don't force small tool or attachment to do the job of a heavy duty tool. Don't use tool for purpose not intended – for example – do not use a circular saw for cutting tree limbs or logs.

8. DRESS PROPERLY. Do not wear loose clothing or jewelry. Loose clothing, draw strings and jewelry can be caught in moving parts. Rubber gloves and non-skid footwear are recommended when working outdoors. Wear protective hair covering to contain long hair.



**9. USE SAFETY GLASSES.** Wear safety glasses or goggles while operating power tools. Also face or dust mask if operation creates dust. All persons in the area where power tools are being operated should also wear safety glasses and face or dust mask.

**10. DON'T ABUSE CORD.** Never carry tool by cord or yank it to disconnect from receptacle. Keep cord from heat, oil, and sharp edges. Have damaged or worn power cord and strain reliever replaced immediately. DO NOT ATTEMPT TO REPAIR POWER CORD.

**11. SECURE WORK.** Use clamps or a vise to hold work. It's safer than using your hand and it frees both hands to operate tool.

**12. DON'T OVERREACH.** Keep proper footing and balance at all times.

**13. MAINTAIN TOOLS WITH CARE.** Keep tools sharp and clean for better and safer performance. Follow instructions for lubricating and changing accessories. Inspect tool cords periodically and if damaged, have repaired by authorized service facility. Inspect extension cords periodically and replace if damaged. Have all worn, broken or lost parts replaced immediately. Keep handles dry, clean and free from oil and grease.

**14. DISCONNECT TOOLS** when not in use, before servicing, and when changing accessories such as blades, bits, cutters, etc.

**15. REMOVE ADJUSTING KEYS AND WRENCHES.** Form habit of checking to see that keys and adjusting wrenches are removed from the tool before turning it on.

**16. AVOID UNINTENTIONAL STARTING.** Do not carry a plugged-in tool with finger on switch. Be sure switch is off when plugging in. Keep hands, body and clothing clear of blades, bits, cutters, etc. when plugging in the tool.

**17. OUTDOOR USE EXTENSION CORDS.** When tool is used outdoors, use only extension cords marked "Suitable for use with outdoor appliances – store indoors when not in use."

**18. STAY ALERT.** Watch what you are doing. Use common sense. Do not operate tool when you are tired or while under the influence of medication, alcohol or drugs.

**19. CHECK DAMAGED PARTS.** Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced by an authorized service center unless otherwise indicated elsewhere in this instruction manual. Have defective switches replaced by authorized service center. Do not use tool if switch does not turn it on and off.

20. WEAR EAR PROTECTION to safeguard against possible hearing loss.

SAVE THESE INSTRUCTIONS

### ADDITIONAL SAFETY RULES FOR RANDOM ORBIT SANDERS

**1. ALWAYS DISCONNECT** the sander cord plug from the power circuit before changing abrasive sheets.

**2. USE DUST MASK.** Wear a protective mask to minimize breathing in the fine dust created while sanding.

**3. DO NOT RUN TOOL WITH BACK-UP PAD REMOVED.** Resulting vibration could cause loss of control.

4. DO NOT OPERATE TOOL WITH DUST SHROUD REMOVED. The dust shroud covers high-speed rotating parts.



**5. KEEP HANDS AND BODY PARTS AWAY** from rotating disc. Contact with rotating disc cause severe cuts and abrasions.

6. **NEVER RUN SANDER** with dust container or dust collector assembly removed. Dust could be blown into eyes.

7. WEAR EYE AND FACE PROTECTION. Injury to face and eyes can result if disc flies off or pad ruptures. Wear impact resistant glasses and full face shield.

8. 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.

**9. SANDING OF LEAD BASED-PAINT IS NOT RECOMMENDED.** Lead-based paint should only be removed by a professional.

#### ADDITIONAL SAFETY RULES FOR PAINT REMOVAL

WARNING: 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.

**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.

**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.

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 of properly.

**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 that is then washed with the work clothes. Wash hair and body thoroughly with soap and water.

#### **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 following the cord type designation. For example – SJTW-A to indicate it is acceptable for outdoor use.

				Le	ength of C	ord in Fee	et			
	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.
	0-2	18	18	18	16	16	14	14	12	12
_	2-3	18	18	16	14	14	12	12	10	10
Rating	3-4	18	18	16	14	12	12	10	10	8
Ra	4-5	18	18	14	12	12	10	10	8	8
ere	5-6	18	16	14	12	10	10	8	8	6
Ampere	6-8	18	16	12	10	10	8	6	6	6
	8-10	18	14	12	10	8	8	6	6	4
late	10-12	16	14	10	8	8	6	6	4	4
hep	12-14	16	12	10	8	6	6	6	4	2
Nameplate	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

RECOMMENDED EXTENSION CORD SIZES FOR USE WITH PORTABLE ELECTRIC TOOLS





# **OPERATING INSTRUCTIONS**

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#### FOREWORD

The Porter-Cable Random Orbit Sander provides rapid stock removal with 80 to 100 grit abrasive and swirl-free finishing with 120 to 150 grit abrasive. The Sander is equipped with a reversible pad that can accept 6<sup>"</sup> diameter, six hole (for six dust extraction) abrasives, with either STIKIT<sup>™</sup> adhesive backed type attachment or hook & loop type attachment.

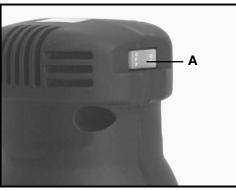
#### TO START AND STOP SANDER

1. **CAUTION:** Make certain the switch is in the "OFF" position, and the power source is the same as that specified on the tool's nameplate.

2. Connect the tool to the power source.

**CAUTION:** Keep hands and body parts away from rotating disc. Contact with rotating disc can cause severe cuts and abrasions.

3. The switch button, (A) Fig. 1, is labeled "ON" and "OFF". Depress the "ON" end of the switch button to start motor. Depress the "OFF" end of the switch button to stop motor.





### **REVERSIBLE PAD**

The pad is factory assembled with the hook & loop side exposed (for use with hook & loop type abrasives). If you wish to use STIKIT<sup>™</sup> type abrasives, it will be necessary to reverse the pad as follows:

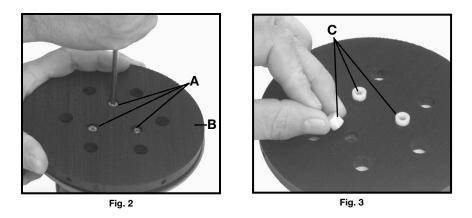
- 1. CAUTION: DISCONNECT THE SANDER FROM THE POWER SOURCE.
- 2. Remove three screws (A) Fig. 2, and lift pad (B), from sander.
- 3. Remove three spacers (C) Fig. 3, from the pad.
- 4. Re-install the three spacers (C) in the hook & loop side of the pad.

5. Orient the pad with its hook & loop side toward the sander. Align three mounting holes with the corresponding holes in the pad mount.

6. Re-install the three screws (A) Fig. 2. Tighten firmly (20 to 25 in. lbs. of torque).

7. Reverse the above procedure to return to hook & loop abrasives.





## INSTALLING/REMOVING ABRASIVE DISC Hook & Loop Abrasive:

The "hook" side of the sanding pad must be exposed for use with hook & loop abrasives (see REVERSIBLE PAD).

- 1. CAUTION: DISCONNECT MACHINE FROM POWER SOURCE.
- 2. Place machine on workbench with pad up (see Fig. 4).
- 3. Clean dust from pad face.

4. Position Hook & Loop Abrasive Disc onto sander pad, aligning the dust extraction holes in paper with holes in pad.

**CAUTION:** Do not use PSA (Pressure Sensitive Adhesive) disc with Hook & Loop pad as the disc may be thrown from the pad causing personal injury.

5. Press disc firmly onto pad.

**CAUTION:** Failure to properly seat disc to pad may result in disc being thrown from pad causing personal injury.

6. To remove disc, peel disc away from pad.



Fig. 4



Fig. 5



7



### **Pressure Sensitive Abrasive:**

The smooth side of the sanding pad must be exposed for use with pressure sensitive abrasives (see REVERSIBLE PAD).

- 1. CAUTION: DISCONNECT MACHINE FROM POWER SOURCE.
- 2. Place machine on workbench with pad up (see Fig. 5).
- 3. Clean dust from pad face.

4. Tear a new abrasive disc from roll and position disc to the sander pad.

Align the dust extraction holes in paper with holes in pad.

5. Press disc firmly onto pad.

6. Position machine with abrasive contacting scrap material. Start machine and operate momentarily while exerting firm pressure to seat disc to pad.

**CAUTION:** Failure to properly seat disc to pad may result in disc being thrown from pad causing personal injury.

7. To remove disc, peel disc away from pad.

**NOTE:** Do not store machine with an abrasive disc installed. Heat generated by the sanding operation increases the adhesive bond between the disc and pad. If disc is left on pad for an extended time after use, it can become difficult to remove.

## DUST COLLECTOR

1. CAUTION: DISCONNECT SANDER FROM POWER SOURCE.

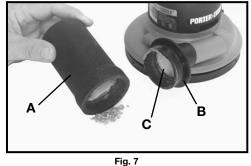
2. Position dust collector (A) Fig. 6, to sander nozzle (B). Seat collector onto nozzle.







3. Periodically remove dust container (A) Fig. 7, from flange (B), and empty collected dust.





NOTE: A slight twisting action will ease removal and reassembly.

Tap container lightly to remove compacted dust. DO NOT WASH CONTAINER. Dry compressed air may be used to blow out container.

CAUTION: Wear safety glasses while using compressed air.

The dust collector flange contains a clear plastic disc (C) Fig. 7, that acts as a check valve to prevent collected dust from getting back into the sander. DO NOT REMOVE THIS DISC.

**CAUTION:** Never run sander with dust container or dust collector assembly removed. Dust could be blown into eyes.

The dust collector can be rotated around the body of the sander. It may be used in any convenient position, Fig. 8.

The dust collector may be replaced with Accessory Hose #39332 so that tool can be used with a remote vacuum system.







Fig. 8A

#### Fig. 8B

Fig. 8C

## HOW TO HOLD SANDER

The sander is designed to be held either around the main housings, Fig. 9, or by the top of the main housings, Fig. 10. When sanding for long periods, it is recommended you periodically alternate between the two holding positions.







Fig. 10

### PAD BRAKE

These sanders are equipped with a pad brake that prevents over-speeding of the pad. If the tool is lifted off the work surface while the motor is running, the brake will limit pad rotation to no more than 400 RPM.

The pad brake uses a belt to provide the braking action. Eventually, this belt may require replacement. If the brake fails to limit pad rotation, send the sander to a Porter-Cable service facility or replace the belt yourself as explained under BELT REPLACEMENT in the MAINTENANCE SECTION of this manual.





### **USING THE SANDER**

1. **CAUTION:** Secure work to prevent if from moving during the sanding operation. Friction between the sanding disc and work will try to spin work away from sander and may cause bodily injury.

2. CAUTION: WEAR SAFETY GLASSES AND DUST MASK.

3. Place sander pad in light contact with the work before switching the motor "ON".

4. Grasp sander firmly and move switch to "ON" position.

5. Move sander in long overlapping strokes. Tipping sander or stopping in one spot can produce an uneven finish.

6. When finished, keep pad in contact with work, move switch to "OFF" position and lift sander from the work. Allow pad rotation to stop completely before setting sander down.

## MAINTENANCE

### KEEP TOOL CLEAN

Periodically blow out all air passages with dry, compressed air. Remove buildup of grime resulting from working with green or sappy wood. All plastic parts should be cleaned with a soft damp cloth. NEVER use solvents to clean plastic parts.

**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.

#### **BRUSH INSPECTION AND LUBRICATION**

At approximately 200 hours of use, take or send your tool to your nearest Authorized Porter-Cable Service Station to be thoroughly cleaned and inspected; worn parts replaced, when necessary; relubricated with fresh lubricant, if required; reassembled with new brushes; and performance tested.

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.

#### **BELT REPLACEMENT**

- 1. CAUTION: DISCONNECT SANDER FROM POWER SOURCE.
- 2. Remove back-up pad (see REVERSIBLE PAD).
- 3. Remove the old belt and clean the belt mounting area.

4. Position the new belt around pulley (A) Fig. 11, and start it onto the shoulder of the pad support (B).

- 5. Rotate the pad support as you "walk" the belt onto it (see Fig. 12).
- 6. Reassemble back-up pad (see CHANGING BACK-UP PAD).





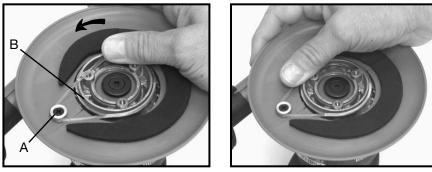


Fig. 11

Fig. 12

#### SERVICE AND REPAIRS

All quality tools 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 PORTER-CABLE 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

The testing of this tool has been accomplished with the following accessories. For safest operation, it is recommended that only these accessories be used with this product.

WARNING: Since accessories other than those listed have not been tested with this product, use of such accessories could be hazardous.

- **13700** Replacement Pad 5" Standard Profile
- 13701 Replacement Pad 5" Contour
- 13906 Replacement Pad 6" Dual Sided
- 13950 Dust Canister
- 875403 Dust Container
- 899536 Dust Filter Assembly (includes flange & valve assembly)
- 39332 Vacuum Hose





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PRESSURE	CATALOG NO.	GRIT	QUANTITY/PKG.
SENSITIVE	72 660 06 25	60	25
ABRASIVES	72 660 08 50	80	50
	72 660 10 10	100	10
	72 660 10 50	100	50
	72 660 12 50	120	50
	72 660 15 10	150	10
	72 660 15 50	150	50
	72 660 22 10	220	10
	72 660 22 50	220	50
HOOK & LOOP	CATALOG NO.	GRIT	QUANTITY/PKG.
HOOK & LOOP ABRASIVES	<b>CATALOG NO.</b> 73 660 06 05	grit 60	<b>QUANTITY/PKG.</b> 5
	73 660 06 05	60	5
	73 660 06 05 73 660 06 25	60 60	5 25
	73 660 06 05 73 660 06 25 73 660 08 25	60 60 80	5 25 25
	73 660 06 05 73 660 06 25 73 660 08 25 73 660 10 05	60 60 80 100	5 25 25 5
	73 660 06 05 73 660 06 25 73 660 08 25 73 660 10 05 73 660 10 25	60 60 80 100 100	5 25 25 5 25
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## 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)

AM

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 Leandro 94577 (Oakland) 3039 Teagarden Street Phone: (510) 357-9762 Fax: (510) 357-7939

#### 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) 311 Laura Drive Phone: (630) 628-6100 Fax: (630) 628-0023

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 Braintree 02185 (Boston) 719 Granite Street Phone: (781) 848-9810

Fax: (781) 848-6759 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

4315 68th Avenue North Phone: (763) 561-9080 Fax: (763) 561-0653

MISSOURI North Kansas City 64116 1141 Swift Avenue P.O. Box 12393 Phone: (816) 221-2070 Fax: (816) 221-2897

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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

оню Columbus 43214 4560 Indianola Avenue Phone: (614) 263-0929

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

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

PENNSYLVANIA

Willow Grove 19090

520 North York Road

Fax: (215) 658-1433

Phone: (215) 658-1430

Houston 77055 West 10 Business Center 1008 Wirt Boad, Suite 120 Phone: (713) 682-0334 Fax: (713) 682-4867

#### WASHINGTON Renton 98055 (Seattle)

268 Southwest 43rd Street Phone: (425) 251-6680 Fax: (425) 251-9337

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