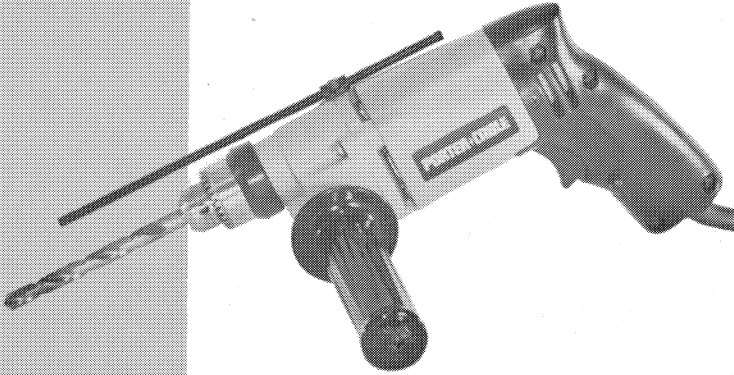


Instruction manual

Double Insulated Hammer - Drill



MODEL 613

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. 692496-288

PORTER+CABLE
PROFESSIONAL POWER TOOLS

IMPORTANT SAFETY INSTRUCTIONS

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:

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.

Manager of Product Engineering
Porter-Cable Corporation
Youngs Crossing at Highway 45
P.O. Box 2468
Jackson, Tn 38301

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 the 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. 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.

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. Don't carry plugged-in tool with finger on switch. Be sure switch is off when plugging in.

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.

SAVE THESE INSTRUCTIONS

ADDITIONAL SAFETY RULES FOR HAMMER-DRILLS

1. **ALWAYS** hold hammer drill by the handle **ONLY** to prevent accidental electrical shock resulting from cutting a live wire when drilling into a wall or other blind areas.

2. **DO NOT** use bits larger than those recommended. Large bits may overload the drill and damage the motor and gears.

3. **USE** only the chuck key to tighten or loosen the chuck.

4. **VERIFY** that selector knob is in correct position for operation being performed. (Drilling or Hammer Drilling)

5. **NEVER** hold work in hand, lap, or against other parts of the body when drilling or hammer drilling.

6. **USE** only percussion type carbide-tipped bits when hammer drilling.
7. **ALWAYS** wear ear protectors when hammer drilling for extended periods.
8. **DO NOT** attempt to cut through reinforcing rods with percussion type bits.
9. **SHOULD** the drill bit become jammed in the work, release switch trigger immediately to prevent personal injury. Disconnect the drill from the power circuit and remove the drill bit from the work. Do not attempt to free the stalled bit by starting and stopping the motor. This could result in bodily injury.

MOTOR

Most 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 below. 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.

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	4
	10-12	16	14	10	8	8	6	6	4	4	4
	12-14	16	12	10	8	6	6	6	4	4	2
	14-16	16	12	10	8	6	6	4	4	2	2
	16-18	14	12	8	8	6	4	4	2	2	2
18-20	14	12	8	6	6	4	4	2	2	2	

REPLACEMENT PARTS

When servicing use only identical replacement parts.

OPERATING INSTRUCTIONS

FOREWORD

Your Porter-Cable Hammer-Drill is designed for drilling 3/8" max. dia. holes in metal, 3/4" dia. max. holes in wood and 1/2" dia. max. holes in concrete, brick and other similar materials.

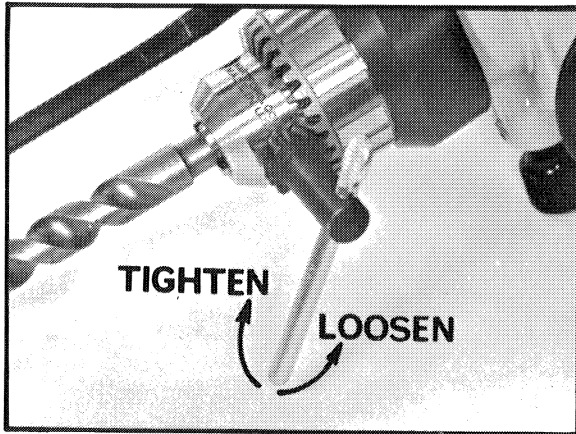


Fig. 1

INSTALLING AND REMOVING DRILL BITS

1. Make sure drill is disconnected from power source.
2. The three-jaw chuck is designed for self-centering of the drill bit. Open jaws large enough by turning outer sleeve counter-clockwise, when viewing the chuck from the bit end, so that bit shank can be inserted easily.
3. Clean and insert smooth end of drill bit as far as it will go into the chuck, or up to the flutes for small bits.
4. While holding the bit with one hand, turn outer sleeve clockwise until the bit is gripped in the chuck.
5. Tighten chuck - insert chuck key into each of 3 keyholes in chuck body (Fig. 1) in succession and tighten securely by turning key clockwise.

CAUTION - Be sure chuck key is removed before starting tool.

6. To remove bit, reverse foregoing procedure.

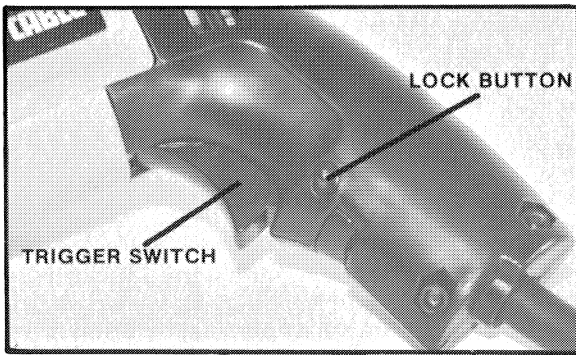


Fig. A

TO START AND STOP DRILL

1. Connect drill to power circuit. Make sure power circuit voltage is the same as that shown on the specification plate of the drill.
2. Squeeze TRIGGER SWITCH (Fig. A) to start motor. Release trigger to stop motor.
3. LOCK BUTTON - A lock button is provided to keep the motor running without holding the trigger switch ON. To lock the trigger switch ON, squeeze the trigger as far as it will go, push in lock button and release trigger.

To unlock lock button, squeeze trigger and release, leaving lock button free to spring out.

NOTE: The lock button can be engaged only when the drill is running at maximum speed.

NEVER USE THE LOCK BUTTON WHERE DRILL MAY HAVE TO BE STOPPED SUDDENLY.

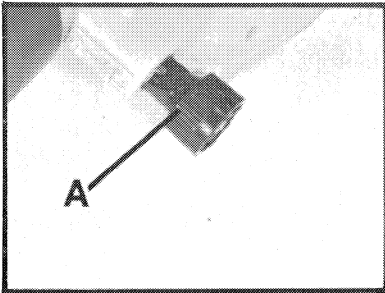


Fig. 2

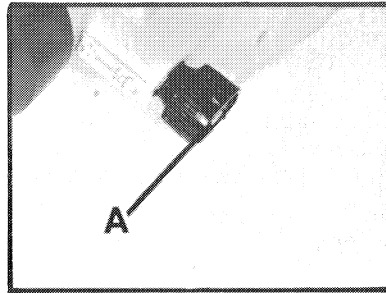


Fig. 3

DRILLING OR HAMMER-DRILLING

1. For regular drilling operation, pull out selector knob (A) Fig. 2 and twist so that flats on bottom of knob line up and seat in shallow slot in housing. (Shallow slot in line with drill bit)
2. For hammer-drilling operation, pull selector knob (A) Fig. 3, out of shallow slot in housing, turn 90 degrees and release. Twist chuck until knob seats into deep slot.

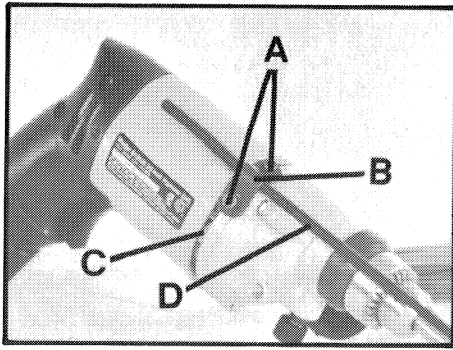


Fig. 4

ASSEMBLE AND ADJUST DEPTH GAGE

1. Insert two clamp screws (A) Fig. 4, through clamp (B) and thread into intermediate plate (C).
2. Insert depth rod (D) Fig. 4, through opening between clamp and intermediate plate.
3. Adjust rod so that the distance from end of rod to tip of bit is equal to desired depth of hole and tighten clamp screws (A) securely.

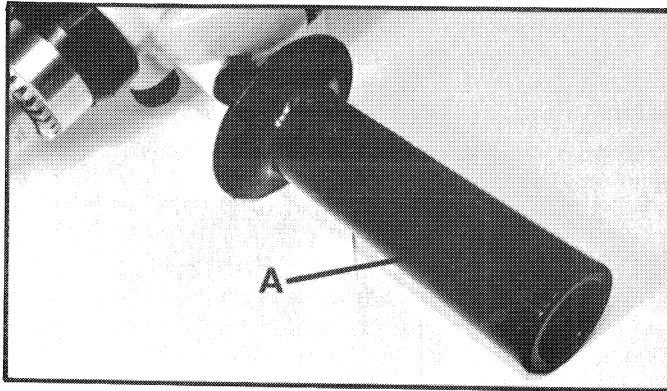


Fig. 5

INSTALLING AUXILIARY HANDLE

An auxiliary handle (A) Fig. 5 is furnished and screws directly into gear housing, providing complete control of the drill. This handle must be used and held as illustrated in Fig. 6 to prevent accidental electrical shock resulting from cutting a live wire when drilling into a wall or other blind areas.

It is strongly recommended that the auxiliary handle be used during all drilling operations.

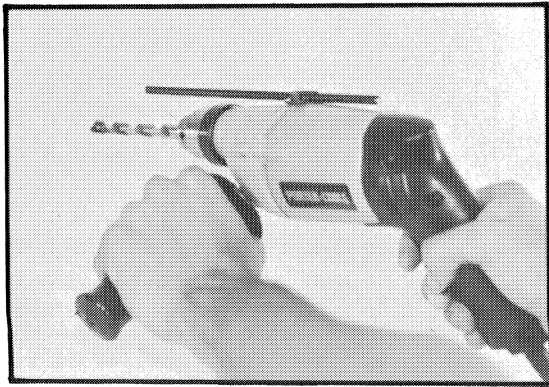


Fig. 6

HOW TO HOLD THE HAMMER-DRILL

WARNING: The front end of the drill may be made live if tool drills into live wiring in a wall. TO PREVENT ACCIDENTAL ELECTRICAL SHOCK, DRILL MUST BE HELD AS SHOWN IN Fig. 6.

HOW TO USE THE HAMMER-DRILL

1. Drilling Concrete - Use carbide tipped masonry bits only. Be sure drill bit is securely gripped in the chuck and the selector knob is in the "hammer-drilling" position. Start drill by squeezing the trigger. Place tip of bit in contact with work and apply steady, firm pressure.

Avoid allowing Hammer-Drill to bounce or "dance" under its own weight. This could result in damage to both the drill bit and the Hammer-Drill. Extreme care should be taken in the event bit should become jammed in the hole so that drill can be stopped immediately.

2. Drilling Wood - Be sure drill bit is securely gripped in the chuck and the selector knob is in the "regular drilling" position. Make sure work is held securely in a vise or clamped in place prior to starting drilling operation. Loose work may spin and cause bodily injury.

Start drill by squeezing trigger. Place tip of drill in contact with work and apply pressure. When using twist drills in wood, they should be withdrawn from hole frequently to clear chips built up in flutes to avoid overheating and burning work. Reduce the pressure on the drill just before the bit cuts through the work to avoid splintering wood.

If a backing block is used to keep back of wood from splintering, it should be clamped securely in place. If a backing is not used with spade bits or hole saws, ease up pressure as soon as bit point breaks through work and complete hole from opposite side.

3. Drilling Metal - Use only good quality high speed steel twist drills. Be sure drill bit is securely gripped in the chuck and the selector knob is in the "regular drilling" position. Make sure work is held securely in a vise or clamped in place prior to starting drilling operation. Loose work may spin and cause bodily injury.

For easy starting and to keep drill bit from "walking", use a center punch to make a small impression in the metal. Start drill by squeezing trigger. Place tip of drill bit in impression and exert only enough pressure to keep bit cutting.

DO NOT FORCE. Too much pressure may cause bit to break or overheat resulting in bodily injury or damaged drill bits. Too little pressure will keep the bit from cutting and dull the edges due to excessive friction created by sliding over the surface.

When drilling a large hole, it is easier to first drill a smaller hole and then enlarge it to the required size. The use of a lubricant, such as oil, on the drill point helps keep the bit cool, increases drilling action and prolongs drill bit life.

MAINTENANCE

KEEP TOOL CLEAN

Periodically blow out all air passages with compressed air. Wear safety glasses while performing this operation. All plastic parts should be cleaned with soft cloths. **NEVER** use solvents when cleaning plastic parts. They could possibly dissolve or otherwise damage the material.

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

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 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; worn parts replaced, when necessary; re-lubricated 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.

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 SERVICE CENTER. All repairs made by these agencies are fully guaranteed against defective material and workmanship. We can not 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.

Twist Drills up to 3/8" Dia.		
Spade Type Wood Bits Up To 3/4" Dia. Max.		
PERCUSSION TYPE CARBIDE TIPPED BITS		
Porter-Cable		
Number	Diameter	Length
44943	1/4	4"
44944	5/16	4"
44945	3/8	4"
44946	7/16	6"
44852	1/2	6"

Carrying Case
No. 59850

**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 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 as listed under "TOOLS-ELECTRIC" in the Yellow Pages of your telephone directory. 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.

To obtain information on warranty performance please write to: PORTER-CABLE CORPORATION, Youngs Crossing At Highway 45, P.O. BOX 2468, Jackson, Tennessee 38301; 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 on 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 SERVICE CENTERS

Parts and Repair Service for Porter-Cable Power Tools
are Available at These Locations

ALABAMA

Birmingham 35209
Suite 105
131 West Oxmoor Road
Phone: (205) 942-6325

CALIFORNIA

Los Angeles 90007
2400 South Grand Avenue
Phone: (213) 749-0386

Orange 92668
385 North Anaheim Blvd.
Phone: (714) 634-4111

Santa Clara 95050
2305 De La Cruz Boulevard
Phone: (408) 727-9790

San Leandro 94577
3039 Teagarden Street
Phone: (415) 357-9762

COLORADO

Denver 80207
4900 East 39th Avenue
Phone: (303) 388-5803

CONNECTICUT

Manchester 06040 (Hartford)
57 Tolland Turnpike
Phone: (203) 646-1078

FLORIDA

Hialeah 33014
16373-75 NW 57th Ave.
Phone: (305) 624-2523

Jacksonville 32205
517 Cassat Avenue
Phone: (904) 387-4455

Tampa 33609
4538 W. Kennedy Boulevard
Phone: (813) 877-9585

Orlando 32803
1807½ Winter Park Road
Phone: (305) 644-8100

GEORGIA

Forest Park 30050 (Atlanta)
4017 Jonesboro Road
Phone: (404) 363-8000

INDIANA

Indianapolis 46268
5317 West 86th Street
Park 100—Building 6
Phone: (317) 875-9078

LOUISIANA

Kenner 70062 (New Orleans)
2440-0 Veterans Memorial Blvd.
Phone: (504) 469-7363

MARYLAND

Baltimore 21205
4714 Erdman Avenue
Phone: (301) 483-3100

Hyattsville 20781
4811 Kenilworth Avenue
Phone: (301) 779-8080

MICHIGAN

Grand Rapids 49506
Indian Village Mall
2750 Birchcrest Drive S.E.
Phone: (616) 949-9040

MINNESOTA

Minneapolis 55429
4315 68th Avenue North
Phone: (612) 561-9080

MISSOURI

St. Louis 63139
2348 Hampton Avenue
Phone: (314) 644-3166

NEW JERSEY

Union 07083
945 Ball Avenue
Phone: (201) 964-1730

NEW YORK

New York 10013 (Manhattan)
132 Lafayette Street
Phone: (212) 966-2726

Flushing 11365
175-25 Horace Harding Expwy.
Phone: (212) 225-2040

Syracuse 13224
2740 Erie Blvd. East
Phone: (315) 445-1922

NORTH CAROLINA

Charlotte 28209
4612 South Boulevard
Phone: (704) 525-4410

OHIO

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

OKLAHOMA

Oklahoma City 73107
3631 Northwest 23rd Street
Phone: (405) 946-5437

OREGON

Portland 97212
51 N.E. Hancock
Phone: (503) 288-6888

RHODE ISLAND

East Providence 02914
1009 Waterman Avenue
Phone: (401) 434-3620

TENNESSEE

Memphis 38116
1004 East Brooks Road
Phone: (901) 332-1353

TEXAS

Dallas 75247
3160 Commonwealth Drive
Suite 180, Commonwealth Plaza
Phone: (214) 631-7855

Houston 77092
5201 Mitchelldale B-9
Phone: (713) 682-0334

San Antonio 78218
Suite 107
2800 N.E. Loop 410
Phone: (512) 654-1061

UTAH

Salt Lake City 84115
2990 Southwest Temple
Phone: (801) 487-4953

VIRGINIA

Richmond 23230
1705 Dabney Road
Phone: (804) 257-7348

WASHINGTON

Seattle 98101
1918 Minor Avenue
Phone: (206) 622-4576

WISCONSIN

Milwaukee 53222
10700 W. Burleigh Street
Phone: (414) 774-3650

Authorized Porter-Cable Service Stations are located in all large cities. For the one nearest you, see the classified section in your phone book (under "Tools - Electric").

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