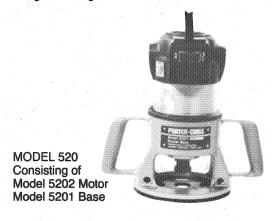
# Instruction manual

## **Heavy Duty Routers**





## **SPEEDTRONIC**

MODEL 518 Consisting of Model 5182 Motor Model 5181 Base

## IMPORTANT

Please make certain that the person who is to use this equipment carefully reads and understands these instructions before starting operations.

Serial No. \_

Part No. 872949-096



## **SAFETY INSTRUCTIONS**

### **GROUNDING INSTRUCTIONS**

This tool should be grounded while in use to protect the operator from electric shock. The tool is equipped with an approved three-conductor cord and three-prong grounding type plug to fit the proper grounding type receptacle. The green (or green and yellow) conductor in the cord is the grounding wire. Never connect the green (or green and yellow) wire to a live terminal.

If your unit is for use on less than 150 Volts, the power cord is equipped with a plug that has two flat, parallel current-carrying prongs and one longer, round or "U"-shaped, ground prong which requires a mating 3-conductor grounded type receptacle, as shown in Fig. 1.

An adapter, shown in Fig. 2, is available for connecting 3-prong grounding type plugs that are used on units less than 150 Volts to 2-prong receptacles. THIS ADAPTER IS NOT ALLOWED IN CANADA. The green colored rigid ear, lug, etc., must be connected to a permanent ground such as a properly grounded outlet box, as shown in Fig. 2.

If your unit is for use on 150 to 250 Volts, the power cord is equipped with a plug that has two flat current-carrying prongs in tandem, and one round or "U" - shaped, longer ground prong, as shown in Fig. 3. This plug is used only with the proper mating 3-conductor grounding type receptacle, as shown in Fig. 3. No adapter is available for this type plug.

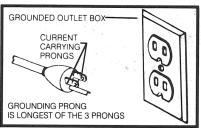


Fig. 1

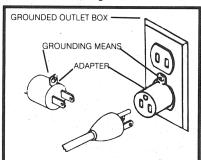


Fig. 2

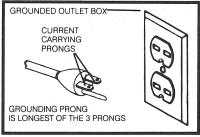


Fig. :

IN ALL CASES, MAKE SURE THE RECEPTACLE IN QUESTION IS PROPERLY GROUNDED.

**NEVER REMOVE GROUNDING PRONG FROM POWER PLUG.** 

## **EXTENSION CORDS**

Use only three-wire extension cords which have three prong groundingtype plugs and three-pole receptacle which accept the tool's plug. Replace or repair damaged or worn cord immediately. DO NOT ATTEMPT TO REPAIR POWER CORD.

## 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 38302-2468

- 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.



THIS SYMBOL DENOTES DO NOT EXPOSE TO RAIN OR USE IN DAMP LOCATIONS

CE SIGNE EST L'INDICATION DE NE PAS EXPOSER A LA PLUIE ET NE PAS UTILISER DANS LES EMPLACEMENTS HUMIDES

- 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. 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 ROUTERS**

- 1. **NEVER** adjust depth of cut while motor is running. A slip at this time may cause personal injury, or damage to cutter or workpiece.
- 2. **BE SURE** cord set is free and will not "hang up" during routing operations.
- 3. **KEEP HANDS CLEAR** of cutter when motor is running to prevent personal injury.
- 4. **MAINTAIN FIRM GRIP** on router when starting motor to resist starting torque.

- 5. **STAY ALERT** and keep cutter clear of all foreign objects while motor is running.
- BE SURE motor has completely stopped before setting machine down between operations.
- 7. **DO NOT USE** router bits with a diameter in excess of  $2\frac{1}{2}$ , except when using Model 5182 Motor set for either 10,000 or 13,000 R.P.M. Router bits with a diameter up to 3" may be used with the 5182 Motor operating in the 10,000 or 13,000 R.P.M. speeds.
- 8. **DO NOT** use router hand-held in an upside-down or a horizontal position. Motor can fall from base if not properly attached according to instructions. (See page 7)
- 9. **AVOID** "CLIMB-CUTTING" (See page 10). "Climb-Cutting" increases the chance for loss of control resulting in possible personal injury.

#### REPLACEMENT PARTS

When servicing use only identical replacement parts.

#### MOTOR

Models 518 and 5182 will operate on single phase, 60 cycle, A.C. current and voltage within plus or minus 5 percent of that shown on the specification plate on the tool. Model 520 and 5202 will operate on 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.

**CAUTION:** Do not operate your tool on current or voltage other than that specified. 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

				Len	gth of Cor	d 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

## **OPERATING INSTRUCTIONS**

#### **FOREWORD**

Model 518 Porter-Cable Speedtronic Router incorporates a microprocessor based speed control that maintains a no-load and cutting load speed from 10,000 RPM to 22,000 RPM, in 3000 RPM increments, to handle the most demanding router applications in various materials.

Model 520 PORTER-CABLE Router is designed for continuous, rugged operations to handle the most demanding routing applications.

### **SELECTING THE BIT**

Models 518 and 520 accommodate bits with 1/2" diameter shanks that are installed directly into the power unit collet. Collets are available that will allow the use of bits having 1/4" or 3/8" diameter shanks.

**CAUTION:** DO NOT USE router bits with a diameter in excess of  $2\frac{1}{2}$ " except when using Model 5182 Motor set for either 10,000 or 13,000 R.P.M. Router bits with a diameter up to 3" may be used with the 5182 Motor operating in the 10,000 or 13,000 R.P.M. speeds.

**CAUTION:** While preparing the router for use, while making adjustments, and when router is not in use; ALWAYS disconnect it from the power source.

#### **INSTALLING AND REMOVING THE BIT**

- 1. CAUTION: DISCONNECT machine from power source.
- 2. Remove Motor Unit from Base Unit as follows:
  - a) Loosen Clamp Screw (A) Fig. 1.
  - b) While holding base, turn motor unit COUNTERCLOCKWISE until lower Pin (B) in motor housing is disengaging from groove in base.
  - c) Lift Motor Unit free from Base Unit.

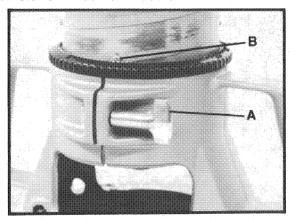


Fig. 1

- 3. Clean and insert shank of bit into collet until shank bottoms. Then back it out approximately 1/16".
- 4. Lay Motor Unit on bench with the collet pointing AWAY from you.
- 5. Place one wrench on flats on Chuck and allow opposite end of wrench to rest on the bench to your LEFT.
- 6. Place other wrench on Collet nut and turn counterclockwise to tighten. TIGHTEN FIRMLY.
- 7. To remove the bit, reverse the foregoing procedure.

NEVER TIGHTEN COLLET WITHOUT BIT INSERTED. TO DO SO, MAY CAUSE DAMAGE TO COLLET.

## ASSEMBLING THE MOTOR INTO THE ROUTER BASE

- 1. **CAUTION:** DISCONNECT motor from power source.
- 2. Loosen the Clamp Screw (A) Fig. 1, only enough so Power Unit can be inserted in Base Unit.
- 3. Insert Motor Unit into base aligning lower pins (B) with grooves in base.
- 4. Rotate Motor Unit Clockwise into base.
- 5. Tighten clamp screw firmly.

## **ADJUSTING DEPTH OF CUT**

- 1. CAUTION: DISCONNECT motor from power source.
- 2. Loosen Clamp Screw (A) Fig. 2.

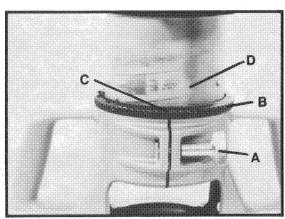


Fig. 2

3. While holding base, turn Motor Unit COUNTERCLOCKWISE until the tip of the bit is above bottom surface of base.

- 4. Set router on a flat wooded surface.
- 5. Turn Motor Unit CLOCKWISE until bit just touches the wood surface.
- 6. Tighten clamp screw.
- 7. Rotate Depth Adjusting Ring (B) until the graduation line marked zero (C) is opposite the index line (D) on the motor housing.
- 8. Loosen clamp screw.
- 9. Tip the router so bit is clear of the wood surface and turn motor unit CLOCKWISE until the index line on the motor housing reaches the desired depth indicated on the ring.
- 10. Tighten clamp screw firmly.

**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.

## **CONNECTING TO POWER SOURCE**

## **TO START AND STOP ROUTER**

**CAUTION:** Before starting the router make sure bit is clear of work piece and foreign objects. Also keep firm grip on router to resist starting torque.

The router is started and stopped by depressing the rocker switch (A) Fig. 3, into the ON or OFF position.

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

#### **CIRCUIT BREAKER**

A thermal type circuit breaker is incorporated into the ON/OFF rocker switch (A) Fig. 3. This circuit breaker will turn the switch OFF if prolonged overload conditions are encountered.

If the circuit breaker "trips", switching the motor OFF: (1) determine cause of the overload (I.E. dull bit, low voltage, excessive feed rate, etc.) and correct before continuing, (2) allow router to cool for three minutes, and (3) restart router following the instructions in TO START AND STOP ROUTER.

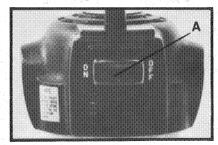


Fig. 3



Fig. 4

## MICROPROCESSOR SPEED CONTROL (MODEL 518 ONLY)

The microprocessor based speed control is located as shown in Fig. 4. Five operating speeds from 10,000 RPM to 22,000 RPM, in 3000 RPM increments, are available by moving the Speed Selector Knob A (Fig. 4). When the Speed Selector Knob is moved to the left, the cutter speed increases and when moved to the right, the speed decreases. The location of the Speed Selector Knob is marked A, B, C, D, and E corresponding to the following speeds: A = 22,000 RPM, B = 19,000 RPM, C = 16,000 RPM, D = 13,000 RPM and E = 10,000 RPM. The set speed will appear in the readout display. The desired speed may be set prior to turning the router "ON" or any time while the router is running. It is recommended that the speed be set prior to engaging the router bit into work. Should it be necessary to change the speed after work has begun, remove router clear of work, maintain a firm grip on the router and adjust speed setting.

**NOTE:** Model 518 Router has a "Soft Start" feature designed to minimize startup reaction torque. This feature will also prevent the router from starting (especially in the E or 10,000 RPM setting) if: (1) the bit is against the work, (2) if a low voltage situation exists, or (3) if long and/or light duty extension cords are used.

If starting problems arise from the above situations, start the router with the control in the mid-range or high speed setting.

The following chart contains suggested speeds for various cutter diameters and material. This chart is also on the router base for easy reference. Experience will indicate the most satisfactory speed to use for any particular application depending on desired finish and feed rate.

	CONTROL SETTING							
Cutter Dia.	Soft Wood	Hard Wood	Plastics	Aluminum				
1/8 - 1/4	Α	В	С	D				
5/16 - 7/16	В	С	D	D				
1/2 - 5/8	С	D	D	E				
3/4 - UP	D	Е	Е	Е				

#### **USING THE ROUTER**

**IMPORTANT:** Before using your router, consider the kind and total amount of material to be removed. Depending on the material, if may be necessary to make more than one cut to avoid overloading the motor. Before beginning the cut on the actual workpiece, it is advisable to make a sample cut on a piece of scrap lumber. This will show exactly how the cut will look as well as enable you to check dimensions.

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

Generally speaking, when working on a bench, the workpiece should be held on the bench by wood 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), more efficient cutting will be obtained if the router is moved from left to right as you stand facing the work. When working on the inside of a templet, move router in clockwise direction.

When working on the outside of a templet, move the router in the counterclockwise direction.

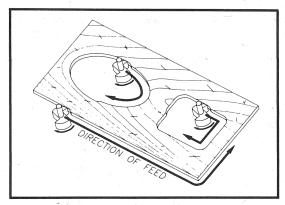


Fig. 5

**WARNING:** Avoid "Climb-Cutting" (cutting in direction opposite that shown in Fig. 5), "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 router.

The speed and depth of cut will depend largely on the type of material being worked upon. Keep the cutting pressure constant but do not crowd the router so the motor speed slows excessively. If may be necessary on exceptionally hard woods or problem materials to make more than one pass at various settings to get the desired depth of cut.

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

### THE EDGE GUIDE

An Edge Guide is available as an accessory to aid in routing operations such as: straight edge planing, parallel grooving, dado or slotting operations.

To assemble, insert Guide Rods (A) in holes in base, Fig. 6 and secure with screws (B). The Guide (C) is adjusted on the rods and secured in desired position with Thumb Screws (D).

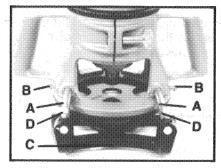


Fig. 6

## **TEMPLET GUIDES**

A wide variety of templet guides are available for use in pattern and templet routing operations, Fig. 7 shows a typical combination (A) Bit, (B) Templet Guide, and (C) Locknut.

**CAUTION:** DISCONNECT Router from power source.

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

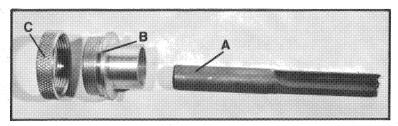


Fig. 7

## MAINTENANCE

## **KEEP TOOL CLEAN**

Periodically blow out all air passages with compressed air. Remove build up of grime resulting from working with green or sappy wood. All plastic parts should be cleaned with 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 lubricant is necessary.

### **BRUSH INSPECTION**

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; 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.

### **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.

## **ACCESSORIES FOR MODELS 518 AND 520**

42596	Wrench
10695	Sub-Base (Standard)
42187	Clear Sub-Base (21/2" Hole)
43000	1/4" Collet
43001	3/8" Collet
42591	1/2" Collet
696	Shaper Table

# 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, 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 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 131 West Oxmoor Road Suite 105 Phone: (205) 942-6325 Fax: (205) 945-9615

#### CALIFORNIA

City of Industry 91745 (Los Angeles) 1305 John Reed Court Phone: (818) 333-3566 Fax: (818) 330-5900

San Leandro 94577 (Oakland) 3039 Teagarden Street Phone: (415) 357-9762 Fax: (415) 357-7939

#### COLORADO

Denver 80204 2561 West 8th Avenue Phone: (303) 892-6113 Fax: (303) 595-0358

#### FLORIDA

Hialeah 33014 (Miami) 16373-75 NW 57th Ave. Phone: (305) 624-2523 Fax: (305) 628-2654

Tampa 33609 4538 W. Kennedy Boulevard Phone: (813) 877-9585 Fax: (813) 289-7948

Orlando 32803 1807½ Winter Park Road Phone: (407) 644-8100 Fax: (407) 740-5956

#### GEORGIA

Forest Park 30050 (Atlanta) 4017 Jonesboro Road Phone: (404) 363-8000 Fax: (404) 363-3129

#### ILLINOIS

Addison 60101 (Chicago) 311 Laura Drive Phone: (708) 628-6100 Fax: (708) 628-0023

#### MARYLAND

Baltimore 21205 4714 Erdman Avenue Phone: (301) 483-3100 Fax: (301) 325-6934

Hyattsville 20781 4811 Kenilworth Avenue Phone: (301) 779-8080 Fax: (301) 209-8421

#### MASSACHUSETTS

Allston 02134 (Boston) 414 Cambridge Street Phone: (617) 782-1700 Fax: (617) 789-4232

#### MICHIGAN

Grand Rapids 49508 Broadmoor Business Center 3755 G Broadmoor S.E. Phone: (616) 949-9040 Fax: (616) 949-3164

Southfield 48075 (Detroit) 18650 W. Eight Mile Road Phone: (313) 569-4333 Fax: (313) 569-4337

Minneapolis 55429 4315 68th Avenue North Phone: (612) 561-9080 Fax: (612) 561-0653

#### MISSOURI

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

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

#### NEW JERSEY

Union 07083 945 Ball Avenue Phone: (201) 964-1730 Fax: (201) 688-6679

#### NEW YORK

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

#### NORTH CAROLINA

Charlotte 28209 4303-B South Boulevard Phone: (704) 525-4410 Fax: (704) 525-0618

#### OHIO

Columbus 43214 4560 Indianola Avenue Phone: (614) 263-0929 Fax: (614) 263-1238

Cleveland 44125 8001 Sweet Valley Drive Unit #18 Phone: (216) 447-9030 Fax: (216) 447-3097

#### PENNSYLVANIA

Philadelphia 19154 12285 McNulty Road Phone: (215) 677-7800 Fax: (215) 677-9908

#### RHODE ISLAND

East Providence 02914 1009 Waterman Avenue Phone: (401) 434-3620 Fax: (401) 431-9277

#### TEXAS

Dallas 75220 10714 N. Stemmons Freeway Phone: (214) 353-2996 Fax: (214) 350-3943

Houston 77092 5201 Mitchelldale B-9 Phone: (713) 682-0334 Fax: (713) 682-4867

#### WASHINGTON

Renton 98055 (Seattle) 268 Southwest 43rd Street Phone: (206) 251-6680 Fax: (206) 251-9337

#### WISCONSIN

Milwaukee 53222 10700 W. Burleigh Street Phone: (414) 774-3650 Fax: (414) 774-3653

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

## **DELTA SERVICE CENTRES**

#### ALBERTA

#10 6320 11th Street S.E. Calgary, Alberta T2H 2L7 Phone: (403) 255-3530 Fax: (403) 258-0767

10632 169th Street Edmonton, Alberta T5P 3X6 Phone: (403) 489-5587 Fax: (403) 489-0465

#### BRITISH COLUMBIA

45 West 7th Avenue Vancouver, B.C. V5Y 1L4 Phone: (604) 879-8622 Fax: (604) 879-4594

1699 Dublin Avenue Winnipeg, Manitoba R3H 0H2 Phone: (204) 633-9259 Fax: (204) 632-1976

## ONTARIO

#### MANITORA

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