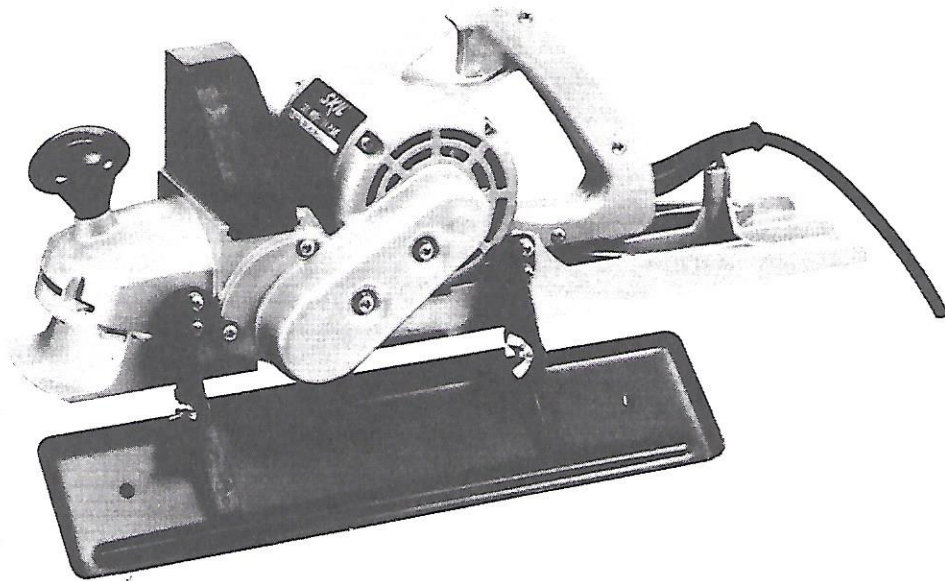
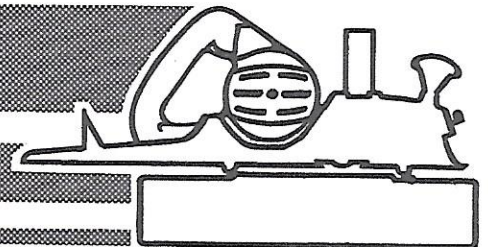


SKIL *Operating Guide*

Model 100 3-INCH PLANE



IMPORTANT: Read Before Using



SKIL CORPORATION
SUBSIDIARY OF EMERSON ELECTRIC CO.
4801 W. PETERSON AVENUE • CHICAGO, IL 60646

⚠ WARNING

"READ ALL INSTRUCTIONS" Failure to follow the SAFETY RULES listed BELOW, and other basic safety precautions, may result in serious personal injury.

General Safety Rules

Work Area

- **KEEP WORK AREAS CLEAN.** Cluttered areas and benches invite accidents.
- **AVOID DANGEROUS ENVIRONMENT.** Don't use power tools in damp or wet locations. Keep work area well lit. Do not expose power tools to rain. Do not use tool in presence of flammable liquids or gases.
- **KEEP CHILDREN AWAY.** Do not let visitors contact tool or extension cord. All visitors should be kept away from work area.

Personal Safety

- **DRESS PROPERLY.** Do not wear loose clothing or jewelry. They 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.
- **USE SAFETY GLASSES.** Also face or dust mask if cutting operation is dusty.
- **GUARD AGAINST ELECTRIC SHOCK.** Prevent body contact with grounded surfaces. For example; pipes, radiators, ranges, refrigerator enclosures.
- **STAY ALERT.** Watch what you are doing. Use common sense. Do not operate tool when you are tired.
- **DISCONNECT TOOLS.** When not in use; before servicing; when changing blades, bits, cutters, etc.
- **REMOVE ADJUSTING KEYS AND WRENCHES.**
- Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
- **AVOID ACCIDENTAL STARTING.** Don't carry plugged in tool with finger on switch. Be sure switch is OFF when plugged in.
- **DON'T OVERREACH.** Keep proper footing and balance at all times.
- **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. Have defective switches replaced. Do not use tool if switch does not turn it on or off.
- **⚠ WARNING** All repairs, electrical or mechanical, should be attempted only by trained repairmen. Contact the nearest Skil Factory Service Center, or Authorized Skil Service Station or other competent repair service. Use only Skil replacement parts, any other may create a hazard.

- **⚠ WARNING** The use of any other accessories not specified in this manual may create a hazard.

Tool Use

- **DON'T FORCE TOOL.** It will do the job better and safer at the rate for which it was designed.
- **USE THE 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; don't use circular saw for cutting tree limbs or logs.
- **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.
- **OUTDOOR USE EXTENSION CORDS.** When tool is used outdoors, use only extension cords suitable for use outdoors and marked with suffix W-A.

Tool Care

- **STORE IDLE TOOLS.** When not in use, tools should be stored in dry, high or locked up place—out of the reach of children.
- **DON'T ABUSE CORD.** Never carry tool by cord or yank it to disconnect from receptacle. Keep cord from heat, oil, and sharp edges.
- **DO NOT ALTER OR MISUSE TOOL.** These tools are precision built. Any alteration or modification not specified is misuse and may result in a dangerous condition.
- **AVOID GASEOUS AREAS.** Do not operate portable electric tools in gaseous or explosive atmospheres. Motors in these tools normally spark, and the sparks might ignite fumes.
- **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. Keep handles dry, clean and free from oil and grease.
- **⚠ WARNING** Before connecting the tool to a power source (receptacle, outlet, etc.) be sure the voltage supplied is the same as that specified on the nameplate of the tool. A power source with voltage greater than that specified for the tool can result in **SERIOUS INJURY** to the user—as well as damage to the tool. If in doubt, **DO NOT PLUG IN THE TOOL.** Using a power source with voltage less than the nameplate rating is harmful to the motor.

"SAVE THESE INSTRUCTIONS"

Tool Safety Rules

- Be sure the Plane is properly grounded before using.
- Always disconnect the cord from the outlet when changing or adjusting blades or when attaching or adjusting the bevel guide.
- Keep both hands on handles of Plane when it is running.
- Do not run motor when carrying Plane at your side.
- Do not put finger or any object in deflector to clean out chips while Plane is running. Pull out cord plug if this becomes necessary and slide deflector off to dump out chips.
- Be sure blade locking bolts are tight.
- Before planing, check work for nails. If there are nails, either remove or set them.
- Do not operate tool in a damp or wet location.

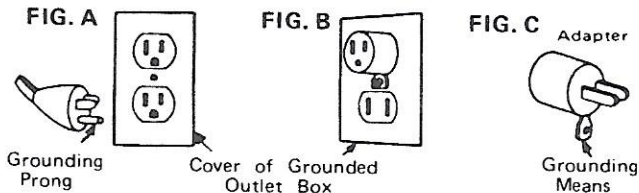
Grounding Instructions

Double Insulated Tools With Two-Prong Plugs

No grounding of the tool is necessary. The housing is a dielectric material. This helps protect you in case of failure of the standard functional insulation within the electrical system. Use only identical replacement parts when service is required.

Grounded Tools With Three-Prong Plugs

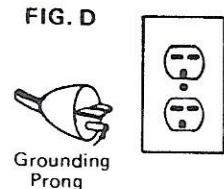
Grounding of this tool is necessary while in use to protect you from electric shock or electrocution. This tool is equipped with an approved three-conductor cord and three-prong grounding-type plug to fit the proper grounding-type receptacle. Do not remove grounding prong from the three prong grounding-type plug. 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. Your unit is for use on less than 150 volts and it has a plug that looks like Fig. "A".



An adaptor, Fig. "B" and "C" is available for connecting Fig. "A" plugs to two-prong receptacles. The green colored rigid ear, lug, etc., extending from the adaptor must be connected to a permanent ground such as a properly grounded outlet box.

NOTE: The grounding adaptor, Fig. "C" is prohibited in Canada by Canadian Electrical Code-Part 1. Therefore the instructions for its use are not applicable in Canada.

If your unit is for use on 150 to 250 volts, it has a plug that looks like Fig. "D" plugs. No adapter is available for a plug like Fig. "D".



Extension Cords

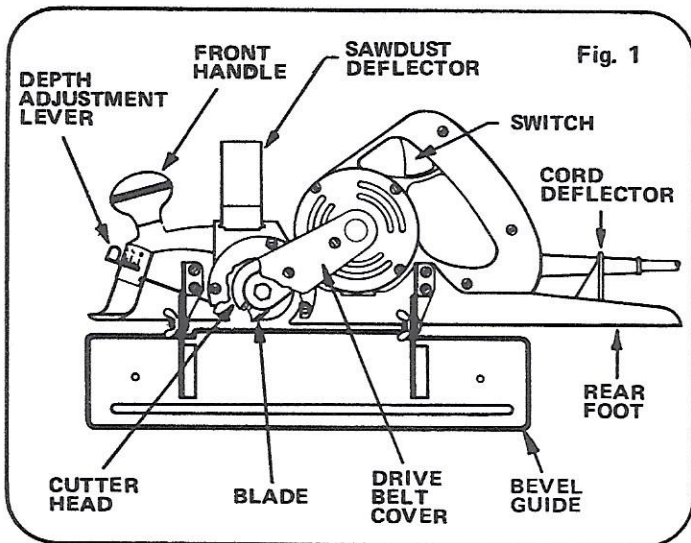
Replace damaged or worn cords immediately. The table shows the correct size to use, depending on cord length and nameplate amperage rating of tool. If in doubt, use the next heavier gauge. An under-sized cord will cause a drop in line voltage, resulting in loss of power and over-heating. NOTE: The smaller the gauge number, the heavier the cord.

Use only three-wire extension cords with three-hole receptacles, which accept the tool plug and have three-prong grounding-type plugs. Three-wire extension cords are available.

Recommended Minimum Gauge for Cord Extensions for Portable Electric Tools.

Name Plate Amps.	Wire Gauge Chart A.W.G.				
	120V 240V	25 50	50 100	100 200	150 300
5-6		18	16	14	12
6-8		18	16	12	10
8-10		18	14	12	10
10-12		16	14	10	8
12-14		16	12	10	8

Introduction



Width of Cut	3"
Depth of Cut	0-1/8"
No Load Speed.....	15,000 RPM
Motor	Universal D.C., or A.C. up to 60 Hz.

STANDARD EQUIPMENT

The plane is equipped with: Bevel guide, sawdust deflector, wrench for changing the blade, hex key for adjusting the blade.

SAWDUST DEFLECTOR

For your convenience, the Plane has both cord and sawdust deflectors. The cord deflector (Fig. 1) directs the cord to the right or left as desired keeping the cord away from the work. Sawdust and chips can be blown to the left or the right by simply sliding the deflector (Fig. 1) out and inserting it in the housing from the opposite side.

BEVEL GUIDE

The bevel guide can be assembled on the left or the right side of the Plane with (4) screws, see Fig. 1. If you do not get a full width of cut when changing sides of the bevel guide, (see step 2 of Replacing Blades). Use the triangular gauge to set the guide accurately at either 45° or 90°. The bevel guide is generally used for door or sash work and can be removed easily for surface planing.

ADJUSTING FOR DEPTH

The range of adjustment (from 0 to 1/8") is controlled by the depth adjustment lever, Fig. 1. This lever raises the front shoe above the rear foot, thus exposing the blades for the depth desired. The depth scale is graduated in 64ths of an inch. The lever "clicks" by steps of .008". The depth adjustment can be made either before or during operation.

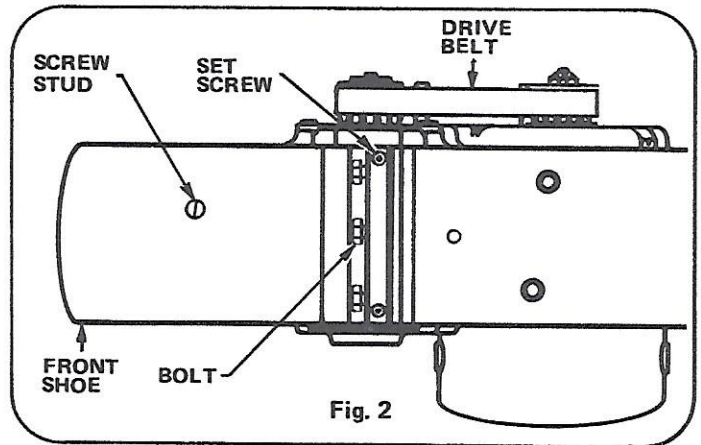
⚠ WARNING Always disconnect the cord from power source before making any adjustments on any part of the saw.

BLADES

This plane is equipped with carbide, non resharpenable blades. These blades can cut on both sides. Dull blades can be turned around to use the other side.

REMOVING BLADES

1. Disconnect from power supply.
2. Remove bevel guide, drive belt cover, and place plane upside down.
3. Loosen the three bolts (Fig. 2) using the wrench supplied.
4. Remove blade by sliding it out of the holder.



REPLACING BLADES

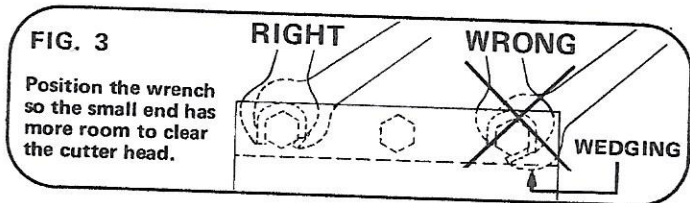
1. Replace blade by inserting it into the blade holder.
2. The blade should be positioned in such a way, that the end of the blade is in line or slightly beyond the inside edge of the bevel guide at 90° set, in order to get a full width of cut.

ADJUSTING BLADES

By holding or clamping a flat piece of wood to the bottom surface of the rear foot check that the revolving tip of the blade coincides exactly with the bottom surface of the wood. If not, adjust the blade to the right height by the set screws (Fig. 2) at each end of the holder, using the hex key supplied.

LOCKING THE BLADES

Retighten the three bolts securely. When tightening, avoid wedging the wrench between the bolt head and the cutter head, by making short turns and repositioning the wrench (Fig. 3). Wedging will affect the adjustment.



To replace the second blade, rotate cutter head by turning the drive belt and repeat operations above. NOTE: For slightly more efficient cutting, set one blade approximately .012" lower. Use triple thickness of writing paper as shim stock between the revolving tip and the wood.

Operation

SWITCH

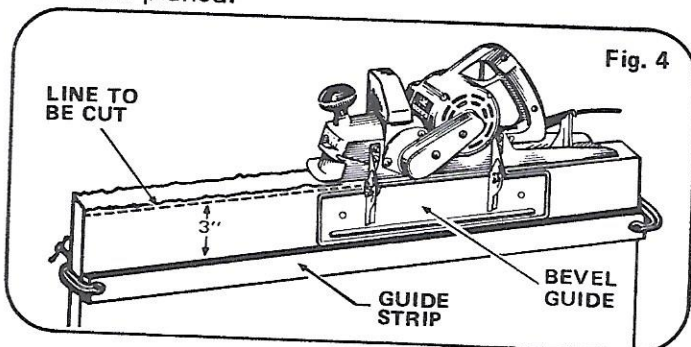
The plane is equipped with a ON-OFF switch. If the motor stalls, turn the switch off at once and lift the tool off the work. Do not turn the switch on and off while the tool is under load. This precaution will reduce burning of contact points and lengthen the life of the switch.

MAKING A CUT

1. Adjust to depth desired.
2. Place front shoe on work. Be sure blades are not touching work.
3. Place weight on front handle so that shoe is absolutely flat on work.
4. Start motor and push Plane forward.
5. After cutting begins, transfer weight to rear handle and keep weight there throughout the cut.
6. Be sure not to force Plane too rapidly. A guide strip (together with bevel guide) helps to plane long and uneven surfaces accurately, see Fig. 4. Place guide strip 3 inches below line of cut desired.

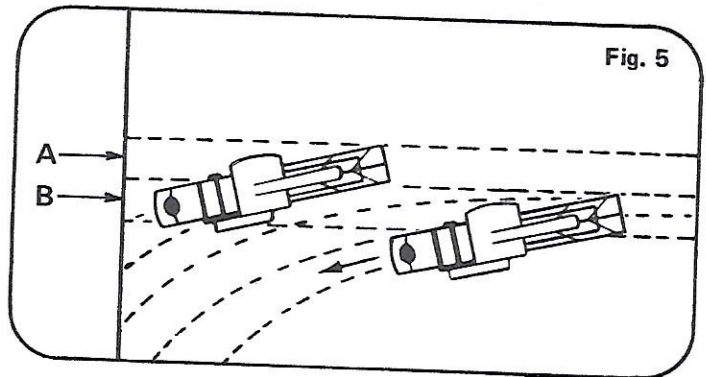
TO SMOOTH ROUGH LUMBER

1. Plane a surface equal to length of Plane at desired depth.
2. Raise front shoe until it clears the highest irregularity of the rough lumber.
3. Continue cut with rear shoe on the surface first planed.



SURFACE PLANING (Fig. 5)

1. Adjust Plane for depth of cut desired.
2. Make a straight cut (down the center) for the full length of the surface to be planed (A).
3. Make a second cut, slightly less than the full width of the plane, next to and parallel with the first cut (B).
4. Make overlapping cuts (each slightly less than Planes' full width directed at an angle from a point near the center of the surface toward the farthest outer corners of the surface. Alternate the cuts to right and left of center.



Maintenance

WARNING Always disconnect the tool from the power source before cleaning.

CLEANING

Follow the instructions below for cleaning your plane. This is important to insure top performance.

DEFLECTOR

With the cord disconnected, remove the deflector and blow out chips and dust. Occasionally scrape accumulations of resin off the casting and the deflector.

FRONT SHOE

After considerable use, wood chips may get inside front shoe and prevent easy depth adjustment. If this occurs:

1. Remove screw stud (see Fig. 2).
2. Slide shoe toward front of Plane.
3. Clean under shoe thoroughly, especially any accumulation of resin.
4. Replace screw stud. Be sure it engages hole in depth adjustment lever, and tighten securely.

BELT AND PULLEYS

Remove the belt cover and blow out any accumulation of sawdust.

DRIVE BELT

The drive belt is designed to operate efficiently under all ordinary operating conditions. After long, hard usage, or when the Plane is subjected to severe

udden shock, the belt may break, but without damage to other Plane parts. You can lengthen the belt life by cutting at maximum depth of cut only when absolutely necessary.

TO REMOVE AND REPLACE BELT (Fig. 6)

1. Disconnect cord from power source.
2. Remove 2 screws and belt cover.
3. To prevent belt and pulleys from turning, place a screwdriver or a flat chisel between teeth of large pulley and boss in housing,
4. Remove nut and flange washer from small pulley. Use 7/16" or adjustable wrench (left hand thread).
5. Belt can now be lifted off.
6. When installing a new belt, it may be necessary to remove the small pulley from the shaft. Place the belt around this small pulley and slightly over the large pulley. Place the small pulley back on the shaft while gradually lowering the belt on the large pulley. This snugness is normal, as the belt is new and has not stretched yet.
7. Replace flange washer and nut . . . to prevent pulleys and belt from turning, place screwdriver between teeth of large pulley and on opposite side of the housing boss.
8. Replace belt cover and 2 screws.

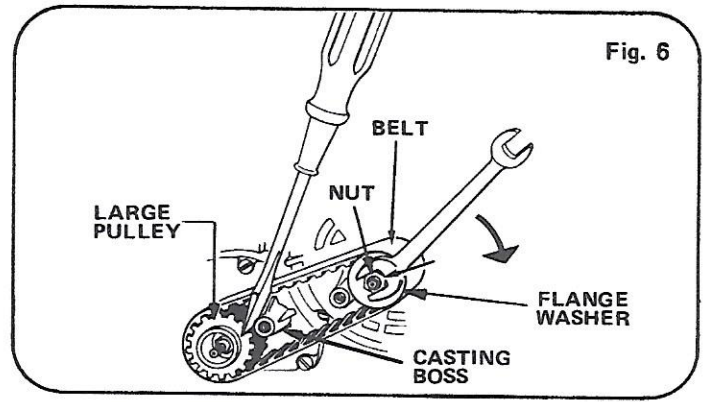


Fig. 6

LUBRICATION

The Plane has been properly lubricated at the factory. The drive belt does not require lubrication. The bearings are permanently packed with grease and do not require repacking. However, after six months to one year, depending upon use, it's wise to return your tool to the nearest Service Center for the following:

- Brushes replaced.
- Parts cleaned and inspected.
- Relubricated with fresh lubricant.
- Electrical system tested.
- All repairs.

⚠ WARNING All repairs, electrical or mechanical, should be attempted only by trained repairmen. Contact the nearest Factory Service Center, or Authorized Service Station or other competent repair service. Use only identical replacement parts, any other may create a hazard.

⚠ WARNING The use of any other accessories not specified in this manual may create a hazard.

SKIL FACTORY SERVICE CENTERS

ALABAMA Birmingham, 2721 Green Springs Highway 35209 Mobile, 3319 Demetropolis Rd 36609	(205) 942-9651 (205) 666-3623	NEBRASKA Omaha, 2110 S. 37th St. 68105	(402) 341-2733
ARIZONA Phoenix, 1710 E. McDowell Rd. 85006	(602) 254-1165	NEVADA Reno/Sparks, 990 Packer Way 89431	(702) 358-1165
ARKANSAS Little Rock, 1303 W. Markham 72201	(501) 374-1911	NEW JERSEY Edison, 6 Kilmer Court 08817 Hillside, 611 U.S. Hwy No. 22 07205	(201) 572-0875 (201) 686-6350
CALIFORNIA Anaheim, 1290 N. Grove 92806 San Francisco, 2285 Palou Ave. 94124 Fresno, 1419 N. Maple 93703 Los Angeles, 5455 E. Washington Blvd. 90040 Concord, 1170 Burnett Ave., Suite D 94520 Sacramento, 3000 O Street 95815 San Diego, 7330 Opportunity Rd., Suite E 92111 Santa Clara, 2130 DeLaCruz Blvd. 95050 Van Nuys, 16201 Victory Blvd. 91406	(714) 630-3244 (415) 285-0330 (209) 252-2879 (213) 685-6760 (415) 827-1427 (916) 451-8473 (714) 269-8335 (408) 727-9444 (213) 994-8896	NEW MEXICO Albuquerque, 3320 Candelaria Dr. N.E. 87107	(505) 884-1299
COLORADO Denver, 678 Bryan St. 80204	(303) 893-5123	NEW YORK Buffalo, 88 Benbro Drive 14225 Huntington Sta., 673 E. Jericho Turnpike 11746 Jamaica, 153-25 Hillside Avenue 11432 Mannhattan, 75 Varnek Street 10013 E. Syracuse, 601 W. Manlius St. 13057	(716) 681-2500 (516) 423-2100 (212) 297-1919 (212) 226-7030 (315) 437-9435
CONNECTICUT Rocky Hill, 2122 Silas Deane Hwy. 06067	(203) 527-4153	NORTH CAROLINA Charlotte, 4800 N. Tryon 28213 Raleigh, 5306 Hillsborough 27606	(704) 597-1957 (919) 851-1418
FLORIDA Jacksonville, 1628 Hendricks Ave. 32207 North Miami, 12041 N.W. 7th Ave. 33168 Orlando, 2605 S. Orange Ave. 32806 Tampa, 5135 W. Cypress St. 33607	(904) 398-0728 (305) 685-6201 (305) 843-5642 (813) 872-0271	OHIO Akron, 2169 E. Market St. 44312 Cincinnati, 1245 Tennessee Ave. 45229 Cleveland, 9000 Bank St. 44125 Columbus, 5562 N. High St. 43214 Dayton, 5671 Webster St. 45415	(216) 794-9440 (513) 242-0244 (216) 447-0250 (614) 885-8670 (513) 890-0760
GEORGIA Atlanta, 5717 Peachtree Industrial Blvd. 30341	(404) 452-8192	OKLAHOMA Oklahoma City, 606 N. Pennsylvania Ave. 73107	(405) 236-0170
HAWAII Honolulu, 3069 Ualeana St. 96819	(808) 836-0404	OREGON Eugene, 1457 W. 6th Ave. 97402 Portland, 2933 E. Burnside 97214	(503) 484-1311 (503) 234-7418
ILLINOIS Chicago (North), 5001 N. Elston Ave. 60630 Chicago (South), 3259 W. Columbus Ave. 60652 Addison, 608 W. Lake St. 60101 Palatine, 1298 East Dundee Road 60067 Springfield, 300 S. 31st St. 62703	(312) 286-6760 (312) 436-1555 (312) 543-8660 (312) 934-4570 (217) 528-6415	PENNSYLVANIA Philadelphia, 4210 Macclester Ave. 19124 Harrisburg, 5630 Allentown Blvd. 17112 Pittsburgh, 3221 Liberty Ave. 15201	(215) 455-2606 (717) 657-2090 (412) 261-6457
INDIANA Hammond, 6339 S. Indianapolis Blvd. 46320 Indianapolis, 3817 S. East Street 46227	(219) 845-9400 (317) 787-8297	RHODE ISLAND East Providence, 505 Waterman Ave. 02914	(401) 438-5626
IOWA Des Moines, 2430 Hubbell 50317	(515) 265-3275	SOUTH CAROLINA Greenville, 1013 N. Pleasantberg Dr. 29607	(803) 271-8161
KANSAS Overland Park, 7805 Frontage Road 66204	(913) 381-3883	TENNESSEE Knoxville, 2002 E. Magnolia 37917 Memphis, 895-6 Brooks Rd. 38116 Nashville, 715 9th Ave. So. 37203	(615) 546-7744 (901) 332-9293 (615) 256-1708
KENTUCKY Louisville, 2501 Crittenden Dr. 40217	(502) 636-2835	TEXAS Dallas, 2457 Walnut Ridge 75229 Fort Worth, 1116-B E. Seminary Dr. 76115 Houston (Central), 324 N. Hutcheson St. 77003 Houston (North), 10600 Hempstead, Suite 101, 77092 Lubbock, 2112 50th 79412 San Antonio, 612 McCullough Ave. 78215	(214) 241-5385 (817) 926-7787 (713) 224-9178 (713) 681-4893 (806) 747-9177 (512) 224-6311
LOUISIANA New Orleans, 3501 Tchoupitoulas St. 70115	(504) 899-6309	UTAH Salt Lake City, 280 W. 2855 South St. 84115	(801) 486-5797
MARYLAND Baltimore, 6834 Harford Rd. 21234 College Park, 9925 Rhode Island Ave. 20740	(301) 254-8988 (301) 474-5510	VIRGINIA Norfolk, 2438 Ingleside Rd. 23513 Richmond, 2026-B Chamberlayne Ave. 23222	(804) 855-2035 (803) 321-6007
MASSACHUSETTS Boston, 190 N. Beacon St. 02135	(617) 254-4560	WASHINGTON Seattle, 2424 4th Ave. 98121 Spokane, 1902 E. Mission Ave. 99202 Tacoma, 1610 Center St. 98409	(206) 622-4404 (509) 335-1754 (206) 572-7107
MICHIGAN Detroit, 26111 W. Eight Mile Rd. 48240 Grand Rapids, 154 44th St. S.W. 49508	(313) 535-1919 (616) 538-5060	WISCONSIN Milwaukee, 10906 W. National Ave. 53227	(414) 327-0050
MINNESOTA Minneapolis, 2539 Nicollet Ave. 55404	(612) 872-0608		
MISSOURI St. Louis, 1238 S. Vandeventer Ave. 63110	(314) 535-7424		



AUTHORIZED SERVICE STATIONS

are located in the following cities. For addresses and phone numbers, see your phone book Yellow Pages under "Tools—Electric".

- ALABAMA:** Huntsville; Sheffield
- ALASKA:** Anchorage; Fairbanks
- ARIZONA:** Tucson; Flagstaff
- ARKANSAS:** Russellville
- CALIFORNIA:** Bakersfield; Eureka; Redding; Santa Barbara; Ventura; Visalia
- DELAWARE:** Wilmington
- HAWAII:** Maui
- IDAHO:** Boise; Idaho Falls
- IOWA:** Davenport
- KANSAS:** Wichita
- LOUISIANA:** Shreveport
- MAINE:** Westbrook
- MARYLAND:** Hagerstown
- MISSISSIPPI:** Jackson
- MONTANA:** Billings; Great Falls; Kalispell; Missoula; Helena
- NEVADA:** Las Vegas
- NEW YORK:** Schenectady
- NORTH CAROLINA:** Greensboro; Asheville
- NORTH DAKOTA:** Fargo
- OHIO:** Toledo; Youngstown
- OKLAHOMA:** Tulsa
- OREGON:** Medford
- PENNSYLVANIA:** Allentown; Bethlehem; Easton; Wilkes-Barre; New Holland; Reading
- SOUTH CAROLINA:** Columbia
- TEXAS:** Amarillo; Odessa
- VERMONT:** S. Burlington
- VIRGINIA:** Roanoke; Bluefield
- WASHINGTON:** Yakima; Kennewick
- WEST VIRGINIA:** Huntington; St. Albans
- WYOMING:** Casper

