ESPAÑOL: PÁGINA 15 FRANÇAISE : PAGE 31

Instruction manual

Double Insulated TIGERCLAW[™] Variable Angle **RECIPROCATING SAW**

Patent # 6,138,364 **Additional Patents Pending**



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

http://www.porter-cable.com



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IMPORTANT

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

The Model and Serial No. plate is located on the main housing of the tool. Record these numbers in the spaces below and retain for future reference.
Model No
Туре
Serial No

Part No. 901452 - 03-28-02

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,
- · 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.

GENERAL SAFETY RULES

WARNING: READ AND UNDERSTAND ALL INSTRUCTIONS. Failure to follow all instructions listed below, may result in electric shock, fire and/or serious personal injury.

SAVE THESE INSTRUCTIONS.

WORK AREA

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

ELECTRICAL SAFETY

- 1. Double insulated tools are equipped with 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 a polarized outlet. Do not change the plug in any way. Double Insulation eliminates the need for the three wire grounded power cord and grounded power supply system.
- 2. Avoid body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is grounded.
- **3. Don't expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- 4. Do not abuse the cord. Never use the cord to carry the tools or pull the plug from an outlet. Keep cord away from heat, oil, sharp edges or moving parts. Replace damaged cords immediately. Damaged cords increase the risk of electric shock.
- 5. When operating a power tool outside, use an outdoor extension cord marked "W-A" or "W". These cords are rated for outdoor use and reduce the risk of electric shock.

PERSONAL SAFETY

1. Stay alert, watch what you are doing, and use common sense when operating a power tool. Do not use tool while tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating power tools may result in serious personal injury.

- 2. Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts.
- **3.** Avoid accidental starting. Be sure switch is OFF before plugging in. Carrying tools with your finger on the switch or plugging in tools that have the switch ON invites accidents.
- **4.** Remove adjusting keys or wrenches before turning the tool ON. A wrench or a key that is left attached to a rotating part of the tool may result in personal injury.
- 5. Do not overreach. Keep proper footing and balance at all times. Proper footing and balance enable better control of the tool in unexpected situations
- **6.** Use safety equipment. Always wear eye protection. Dust mask, non-skid safety shoes, hard hat, or hearing protection must be used for appropriate conditions.

TOOLS USE AND CARE

- 1. Use clamps or other practical way to secure and support the workpiece to a stable platform. Holding the work by hand or against your body is unstable and may lead to loss of control.
- 2. Do not force tool. Use the correct tool for your application. The correct tool will do the job better and safer at the rate for which it is designed.
- **3. Do not use tool if switch does not turn it ON or OFF.** A tool that cannot be controlled with the switch is dangerous and must be repaired.
- 4. Disconnect the plug from the power source before making any adjustments, changing accessories, or storing the tool. Such preventive safety measures reduce the risk of starting the tool accidentally.
- 5. Store idle tools out of reach of children and other untrained persons. Tools are dangerous in the hands of untrained users.
- **6.** Maintain tools with care. Keep cutting tools sharp and clean. Properly maintained tools, with sharp cutting edges are less likely to bind and are easier to control.
- 7. Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tool's operation. If damaged, have the tool serviced before using. Many accidents are caused by poorly maintained tools.
- 8. Use only accessories that are recommended by the manufacturer for your model. Accessories that may be suitable for one tool may become hazardous when used on another tool.

SERVICE

- 1. Tool service must be performed only by qualified repair personnel. Service or maintenance performed by unqualified personnel may result in a risk of injury.
- 2. When servicing a tool, use only identical replacement parts. Follow instructions in the Maintenance Section of this manual. Use of unauthorized parts or failure to follow Maintenance Instructions may create a risk of electric shock or injury.

SPECIFIC SAFETY RULES

WARNING: READ AND UNDERSTAND ALL INSTRUCTIONS. Failure to follow all instructions listed below, may result in electric shock, fire and/or serious personal injury.

SAVE THESE INSTRUCTIONS

- 1. Hold tool by insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring or its own cord. Contact with a "live" wire will also make exposed metal parts of the tool "live" and shock the operator.
- 2. Keep blades sharp. Sharp blades will do the job better and safer.
- **3. Keep hands away from cutting area.** When sawing never reach underneath or behind the material being cut for any reason.
- **4.** When you have finished a cut be careful not to come into contact with the blade. Turn off the motor immediately.
- **5. Exercise extreme caution** when blind cutting to be certain that there are no foreign objects such as electrical wire, conduit, plumbing pipes, etc., that may come into contact with the blade.
- **6.** Always exercise extreme caution when positioning hands. Use both hands to hold and control tool especially when making angle or scroll cuts. Exercise caution when cutting towards operator.
- 7. Always be aware of increased tool vibration, kickback and blade breakage potential when making angle and scroll cuts..
- **8.** Use only recommended blades with this tool. Do NOT use jig saw blades without the proper blade adaptor.
- **9.** To prevent accidental electrical shock the tool must be held as shown in Fig. 10 or Fig. 10A, and have the rubber front housing cover properly installed and **NOT DAMAGED**. The rubber front housing cover also serves as an assembly pin retention mechanism.
- **10. Do not operate** the tool with the guide shoe removed.
- 11. Stay clear of end pieces that may fall after being cut off.
- **12. Do not attempt** to plunge cut metal. Tool is not designed to plunge cut metal and doing so may result in risk of injury.
- **13.** Some wood contains preservatives which can be toxic. Take extra care to prevent inhalation and skin contact when working with these materials. Request, and follow, any safety information available from your material supplier.
- **14.** 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 contacted Porter-Cable and we have advised you.

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

SYMBOL	DEFINITION
V	 volts
Α	 amperes
Hz	 hertz

W	 watts
kW	 kilowatts
μF	 microfarads
I	 liters
kg	 kilograms
N/cm ²	 newtons per square centimeter
Pa	 pascals
h	 hours
min	 minutes
S	 seconds
\sim	 alternating current
$_3$ \sim	 three-phase alternating current
$_{3N}$ \sim	 three-phase alternating current with neutral
====	 direct current
n_0	 no load
\sim	 alternating or direct current
	 Class II Construction
\triangle	 splash-proof construction
A A	•
••	 watertight construction
/min	 revolutions or reciprocation per minute

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

RECOMMENDED EXTENSION CORD SIZES FOR USE WITH 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.
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
late	10-12	16	14	10	8	8	6	6	4	4
l de	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

FUNCTIONAL DESCRIPTION

FOREWORD

The Porter-Cable variable angle reciprocating saw is designed for cutting wood up to 12" thick, metal up to 3/4" thick and various other materials, such as plastics, fiberglass, hard rubber, etc.

SELECTING THE BLADE

For best performance, longer blade life, and smoother cut, select the proper blade for the job. When cutting metal always select a blade which will allow at least three teeth to be engaged in the thickness of material.

ASSEMBLY

INSTALLING THE BLADE

1. The reciprocating shaft must be fully extended to permit access to the *Quik-Change*™ blade release collar (A) Fig. 1. If necessary, gently squeeze the trigger switch to move the reciprocating shaft to its outermost position (as shown in Fig. 1).

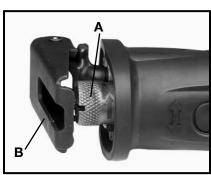
MARNING: DISCONNECT TOOL FROM POWER SOURCE.

- 2. Pivot the guide shoe (B) Fig. 1, forward to improve access to the blade clamp.
- 3. To open the blade clamp: rotate and hold the blade release collar (A) Fig.
- 2, counterclockwise (as viewed from the front of the saw).

NOTE: The *Quik-Change*™ pivoting guide shoe can be temporarily removed to make blade installation easier. Release locking lever (B) Fig. 3 to remove (see Pivoting Guide Shoe Assembly and Adjustment section of this manual).

WARNING: DO NOT OPERATE THE TOOL WITH THE GUIDE SHOE REMOVED.

4. Insert the blade into the clamp until it bottoms. Allow the release collar to rotate clockwise to lock the blade in place, (A) Fig. 4. **NOTE:** The blade can be installed upside down if preferred, for better reach in tight fitting applications.



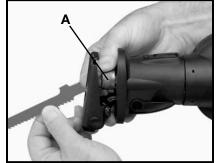
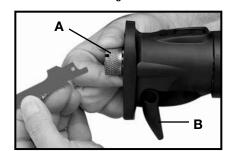


Fig. 1

Fig. 2



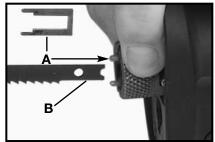


Fig. 3

Fig. 3A



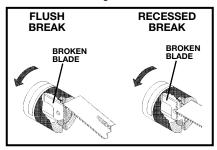


Fig. 4

Fig. 5

5. To remove blade: repeat steps 1 through 3, and pull blade from blade clamp (while the release collar is being held in the open position).

NOTE: If the blade clamp collar resists rotation to remove a blade, work the blade up and down while rotating the clamp (in a counterclockwise direction).

If the blade breaks leaving nothing to grasp (to pull it from the clamp), it may be necessary to use another blade as a tool to aid in removing the broken piece (see Fig. 5). While holding the release collar in the open position, use the tip of another blade to "hook" the broken piece and pull it from the clamp. (A thin, fine-toothed, metal-cutting blade works best.)

Periodically clean the blade clamp with dry compressed air. DO NOT lubricate the blade clamp. Lubricant can attract contamination.

WARNING: Wear safety glasses while using compressed air.

INSTALLING THE BLADE ADAPTOR

WARNING: DISCONNECT TOOL FROM POWER SOURCE.

1. Standard jig saw blades may be used in the variable angle reciprocating saw with the proper blade adaptor installed. To prepare for installing a standard jig saw blade follow steps 1 through 3 in INSTALLING THE BLADE section of this manual.

Page 8

- 2. Insert the jig saw blade adaptor (A) Fig. 3A into the the clamp until it bottoms out. Insert the jig saw blade (B) into the blade adaptor (A). Allow the release collar to rotate clockwise to lock the blade in place as shown in (A)
- 3. To remove the jig saw blade and blade adaptor, reverse the above procedure.

PIVOTING GUIDE SHOE ASSEMBLY AND ADJUSTMENT

WARNING: DISCONNECT TOOL FROM POWER SOURCE.

The Quik-Change™ pivoting guide shoe is designed for quick release and easy removal without any tools. To remove, open the lock lever (B) Fig. 3 and slide the guide shoe out of the front scroll housing. To reinstall slide the guide shoe into the front scroll housing and close the lock lever as shown in (B) Fig. 4. The shoe extension can be adjusted and locked in any one of three different positions.

ROTATABLE GEAR HOUSING ADJUSTMENT

WARNING: DISCONNECT TOOL FROM POWER SOURCE.

- 1. The variable angle reciprocating saw is designed with a rotatable gear housing for easy adjustment of cutting angle. This feature permits access to places where conventional tools cannot be used.
- 2. The gear housing can rotate 90° up or 90° down. The angle can be adjusted to 13 detented positions (6 up, 6 down, 1 straight). This feature is designed to simplify adjusting up or down angle of cut and provide accessibility in close quarters.
- 3. To rotate the gear housing, depress lock button (A) Fig. 6. Hold the button depressed while moving the gear housing up or down to the desired position or angle. Then release the lock button and continue to move the gear housing until the lock button snaps into the desired detent position (B) Fig 7.

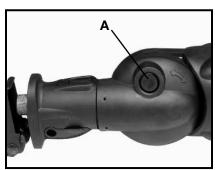




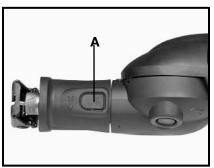
Fig. 6

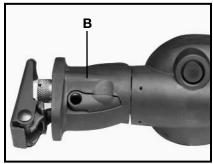
Fig. 7

FRONT SCROLL HOUSING ADJUSTMENT

WARNING: DISCONNECT TOOL FROM POWER SOURCE.

- 1. The variable angle reciprocating saw is designed with a rotatable front scroll housing for easier radius cuts. This feature permits additional access in close workspaces to reach places where conventional tools cannot be used.
- 2. The front scroll housing can rotate 360°. The front scroll housing can be adjusted radially to 12 detented positions. This feature is designed to simplify adjusting to radial angle of cut and combined with the rotatable gear housing, provides accessibility to most any cutting operation.
- 3. To rotate the front scroll housing, depress lock button (A) Fig. 8. Hold the button depressed while moving the front scroll housing clockwise or counterclockwise to the desired radial position or angle. Then release the lock button and continue to move the front scroll housing until the lock button snaps into the desired detent position (B) Fig. 9.





HOW TO HOLD SAW

The metal parts of the saw, blade and pivoting guide shoe may be made live if the blade cuts into live wiring within a wall.

- WARNING: To prevent accidental electrical shock the tool must be held as shown in Fig. 10 or Fig.10A, and have the rubber front housing cover properly installed and **NOT DAMAGED**. The rubber front housing cover also serves as an assembly pin retention mechanism. If the cover is removed or becomes damaged the pins can fall out.
- MARNING: Always exercise extreme caution when positioning hands. Use both hands to hold and control tool especially when making angle or scroll cuts. Exercise caution when cutting towards operator.
- MARNING: Always be aware of increased tool vibration, kickback and blade breakage potential when making angle and scroll cuts..
- MARNING: Use only recommended blades with this tool. Do NOT use jig saw blades without the proper blade adaptor.



Fig. 10



Fig. 10A

OPERATION

TO START AND STOP SAW

- 1. Make sure power circuit voltage is the same as shown on the specification plate on the saw. Connect saw to power circuit.
- 2. Hold saw firmly Fig. 10 or Fig.10A. Squeeze trigger switch (A) Fig. 11, to start motor. Release trigger to stop motor.

VARIABLE SPEED

The saw is equipped with a variable speed control switch (A) Fig. 11 (0 to 2900 SPM). As the switch trigger is squeezed, the speed of the saw blade increases.

The lower speeds are recommended for most metal cutting, while the higher speeds are recommended for wood. A few practice cuts at various speeds (on scrap material), will aid you in choosing the best speed for obtaining the desired results on your application.



Fig. 11

PIVOTING GUIDE SHOE

The Quik-Change™ pivoting guide shoe (A) Fig. 12, serves as a rest while making a cut. It is pivoted so the saw may be gradually raised to a position perpendicular to the work as the saw is moved toward the operator.

WARNING: Do not operate the tool with the guide shoe removed.

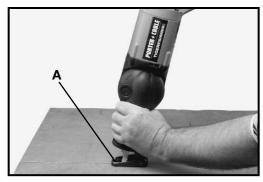


Fig. 12

USING THE SAW

BEFORE YOU START TO WORK

Select the blade best suited for the material to be cut. For greatest economy, use the shortest blade suitable for the thickness of the material to be cut.

Be sure the material to be cut is rigid. Small work pieces should be securely clamped in a bench vise or with clamps to the work table. As the work progresses in scroll or curved cut-out pieces, the material may be readjusted to accommodate the movement of the saw. If the work is large enough, it may be held only by hand across saw horses. The saw cuts freely with only slight feed pressure. Forcing the saw will not make it cut faster.

SAWING WOOD

The variable angle reciprocating saw is used much the same as a hand saw in that it is moved toward the operator during the cutting operation. However, since the blade cuts on the up-stroke instead of the down-stroke as in the case of the hand saw, the good or finish side of the work should face down during the cutting operation.

PLUNGE CUTS

The variable angle reciprocating saw can be used for plunge cutting wood, plywood, wallboard, and plastic materials.

MARNING: DO NOT attempt to plunge cut metal.

Clearly mark line of cut on the work. Grasp front housing with one hand and rear handle with the other hand. Choose a convenient starting point inside the line of cut in waste material area. To start cut, rest saw on shoe bracket, align blade with the starting point, (blade NOT touching work), as shown in Fig. 13. Start saw. Using bracket as a pivot point, roll saw forward by raising rear handle, as shown in Fig. 14. When blade has cut through the work, continue raising the rear handle until saw is perpendicular to the work and guide shoe is fully seated on the work surface. Keep saw in this position and move blade along line of cut.

Page 12



Fig. 13



Fig. 14

SAWING METAL

When cutting angle, H-beam, I-beam, channel, etc., start the cut on the surface where the greatest number of teeth will contact the work. To make a pocket cut, drill a starting hole first. To extend blade life, cutting oil can be applied to the work surface along the line of the cut.

MAINTENANCE

KEEP TOOL CLEAN

Periodically blow out all air passages with dry compressed air. All plastic parts should be cleaned with a soft damp cloth. NEVER use solvents to clean plastic parts. They could possibly dissolve or otherwise damage the material.

WARNING: 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 lubrication is necessary.

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/DELTA FACTORY SERVICE CENTER.

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

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

SERVICE 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/DELTA FACTORY 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

A complete line of accessories is available from your Porter-Cable • Delta Supplier, Porter-Cable • Delta Factory Service Centers, and Porter-Cable Authorized Service Stations. Please visit our Web Site www.porter-cable.com for a catalog or for the name of your nearest supplier.

WARNING: Since accessories other than those offered by Porter-Cable • Delta have not been tested with this product, use of such accessories could be hazardous. For <u>safest operation</u>, only Porter-Cable • Delta recommended accessories should be used with this product.

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

To obtain information on warranty performance please write to: PORTER-CABLE CORPORATION, 4825 Highway 45 North, Jackson, Tennessee 38305; Attention: Product Service. THE FOREGOING OBLIGATION IS PORTER-CABLE'S SOLE LIABILITY UNDER THIS OR ANY IMPLIED WARRANTY AND UNDER NO CIRCUMSTANCES SHALL PORTER-CABLE BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES. Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty gives you specific legal rights and you may also have other legal rights which vary from state to state.

PORTER-CABLE • DELTA SERVICE CENTERS (CENTROS DE SERVICIO DE PORTER-CABLE • DELTA) (CENTRE DE SERVICE PORTER-CABLE • DELTA)

Parts and Repair Service for Porter-Cable • Delta Power Tools are Available at These Locations (Obtenga Refaccion de Partes o Servicio para su Herramienta en los Siguientes Centros de Porter-Cable • Delta) (Locations où vous trouverez les pièces de rechange nécessaires ainsi qu'un service d'entretien)

ARIZONA

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

CALIFORNIA

Ontario 91761 (Los Angeles) 3949A East Guasti Road Phone: (909) 390-5555 Fax: (909) 390-5554 San Leandro 94577 (Oakland) 3039 Teagarden Street Phone: (510) 357-9762 Fax: (510) 357-7939

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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

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Elkridge 21075 (Baltimore) 7397-102 Washington Blvd. Phone: (410) 799-9394 Fax: (410) 799-9398

MASSACHUSETTS

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Fax: (763) 561-0653

Madison Heights 48071 (Detroit)

30475 Stephenson Highway

MISSOURI

Page 48

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 YORK

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

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

OHIO Columbus 43214 4560 Indianola Avenue Phone: (614) 263-0929 Fax: (614) 263-1238 Cleveland 44125 8001 Sweet Valley Drive Unit #19 Phone: (216) 447-9030

OREGON

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PENNSYLVANIA

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

TEXAS

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