# ESPAÑOL: PÁGINA 15 FRANÇAISE : PAGE 29

# Instruction manual

# **Bayonet Saw**



MODEL 548

## IMPORTANT

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

http://www.porter-cable.com



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.\_\_\_\_\_

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Part No. 903548 - 01-13-05

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# **IMPORTANT SAFETY INSTRUCTIONS**

**AWARNING** Read and understand all warnings and operating instructions before using any tool or equipment. When using tools or equipment, basic safety precautions should always be followed to reduce the risk of personal injury. Improper operation, maintenance or modification of tools or equipment could result in serious injury and property damage. There are certain applications for which tools and equipment are designed. Porter-Cable strongly recommends that this product 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 product until you have written Porter-Cable and we have advised you.

Online contact form at www.porter-cable.com

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

Information regarding the safe and proper operation of this tool is available from the following sources:

Power Tool Institute

1300 Sumner Avenue, Cleveland, OH 44115-2851

## www.powertoolinstitute.org

National Safety Council 1121 Spring Lake Drive, Itasca, IL 60143-3201

American National Standards Institute, 25 West 43rd Street, 4 floor, New York, NY 10036 <u>www.ansi.org</u> ANSI 01.1Safety Requirements for Woodworking Machines, and the U.S. Department of Labor regulations <u>www.osha.gov</u>

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# **SAFETY GUIDELINES - DEFINITIONS**

It is important for you to read and understand this manual. The information it contains relates to protecting YOUR SAFETY and PREVENTING PROBLEMS. The symbols below are used to help you recognize this information.



ADANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
AWARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
ACAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.
CAUTION used without the safety alert symbol indicates potentially hazardous situation which, if not avoided, may result in property damage.

## **CALIFORNIA PROPOSITION 65**

**AWARNING** Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known (to the State of California) 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
- 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, always wear NIOSH/OSHA approved, properly fitting face mask or respirator when using such tools.

# **GENERAL SAFETY RULES**

**AWARNING** Read all instructions. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury. The term "power tool" in all of the warnings listed below refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.



SAVE THESE INSTRUCTIONS

- 1) Work area safety
  - a) Keep work area clean and well lit. Cluttered or dark areas invite accidents.
  - b) 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.
  - c) Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

### 2) Electrical safety

- a) Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- b) Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- c) **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- d) Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- e) When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.

### 3) Personal safety

- a) Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
- b) **Use safety equipment. Always wear eye protection.** Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- c) Avoid accidental starting. Ensure the switch is in the off-position before plugging in. Carrying power tools with your finger on the switch or plugging in power tools that have the switch on invites accidents.

## GENERAL SAFETY RULES continued

- d) Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- e) **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- f) Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry or long hair can be caught in moving parts.
- g) If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of these devices can reduce dust-related hazards.

### 4) Power tool use and care

- a) **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designed.
- b) **Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- c) Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
- d) Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
- e) Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tools operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- f) **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- g) Use the power tool, accessories and tool bits etc., in accordance with these instructions and in the manner intended for the particular type of power tool, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.

### 5) Service

a) Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

# ADDITIONAL SPECIFIC SAFETY RULES

- 1. Hold power 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 make exposed metal parts of the tool "live" and shock the operator.
- 2. 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.
- 3. Keep blades sharp. Sharp blades will do the job better and safer.
- 4. Keep hands away from cutting area. When sawing never reach underneath or behind the material being cut for any reason.
- 5. When you have finished a cut be careful not to come into contact with the blade. Turn off the motor immediately.
- 6. **AWARNING** Exercise extreme caution when blind cutting. Be certain that there are no foreign objects such as electrical wire, conduit, plumbing pipes, etc., that may come into contact with the blade.
- 7. Wear eye and hearing protection. Always use safety glasses. Everyday eyeglasses are NOT safety glasses. USE CERTIFIED SAFETY EQUIPMENT. Eye protection equipment should comply with ANSI Z87.1 standards. Hearing equipment should comply with ANSI S3.19 standards.
- 8. AWARNING Use of this tool can generate and disburse dust or other airborne particles, including wood dust, crystalline silica dust and asbestos dust. Direct particles away from face and body. Always operate tool in well ventilated area and provide for proper dust removal. Use dust collection system wherever possible. Exposure to the dust may cause serious and permanent respiratory or other injury, including silicosis (a serious lung disease), cancer, and death. Avoid breathing the dust, and avoid prolonged contact with dust. Allowing dust to get into your mouth or eyes, or lay on your skin may promote absorption of harmful material. Always use properly fitting NIOSH/OSHA approved respiratory protection appropriate for the dust exposure, and wash exposed areas with soap and water.

### SAVE THESE INSTRUCTIONS!

SYMBOL		DEFINITION					
V		volts					
A		amperes					
Hz		hertz					
W		watts					
kW		kilowatts					
F		farads					
μF		microfarads					
I		litres					
g		grams					
kg		kilograms					
bar		bars					
Ра		pascals					
h <sub>.</sub>		hours					
min							
S							
n <sub>o</sub>		no-load speed					
/min o	ormin-1	Revolutions or reciprocations per minute					
<del></del> or d.c		direct current					
$\sim$ .	r a.c	alternating current					
2 ~		two-phase alternating current					
2N / U		two-phase alternating current with neutral					
3'U		three-phase alternating current					
3N′∪		three-phase alternating current with neutral					
		rated current of the appropriate fuse-link in amperes					
Ê	for	time-lag miniature fuse-link where X is the symbol the time/current characteristic, as given in IEC 60127					
(=)		protective earth					
		class II tool					
		IP symbol					
11 777		ii Symbol					

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## 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.
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

SAVE THESE INSTRUCTIONS!

# CARTON CONTENTS

### 1) Saw

- 2) Instruction Manual
- 3) Replacement Parts List
- 4) Combination Package

# **FUNCTIONAL DESCRIPTION**

## FOREWORD

Model 548 Bayonet Saw is designed for cutting materials of the following MAXIMUM thickness: Wood  $2^{1}/_{2}$ ", Aluminum  $^{3}/_{4}$ ", Steel  $^{1}/_{4}$ ".

## SELECTING THE BLADE

To obtain best results with your Porter-Cable bayonet saw, it is important that you use the right blade for the job. You will not only get better performance, but your blades will last longer and a smoother cut will result.

## ASSEMBLY

NOTE: This tool is shipped completely assembled. No assembly time or tools are required.

## **INSTALLING THE BLADE**

## **AWARNING** DISCONNECT TOOL FROM POWER SOURCE.

The blade screw and nut lock the blade in the holder. The nut has a recess on one side and the blade screw has a shoulder that fits within this recess. **NOTE:** To avoid pinching and breakage of the blade make sure the recess in the nut faces the screw head and the shoulder on the screw projects slightly into this recess before installing the blade. Insert the blade into the blade holder and over the screw, see Fig. 1. Use the wrench furnished with your saw and apply only enough torque to firmly hold the blade. **NOTE:** Do not over tighten as damage to the screw or nut may result.



Fig.` 1

# **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. Squeeze switch trigger (A) Fig. 2 to start motor. Release trigger to stop motor. This saw has a variable speed switch, as the switch trigger is squeezed, the speed of the saw blade increases.
- Lock Button A lock button (B) Fig. 2, is provided to keep the saw running at the fastest speed without holding the switch trigger "ON". To lock the switch trigger on, squeeze the trigger as far as it will go and push in the lock button and release trigger.

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

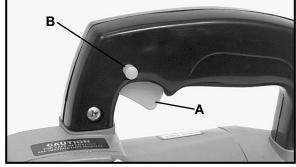


Fig. 2

## **BASE INSERT**

Two base inserts, like the one shown in Fig. 3, are available to reduce splintering the top fibers of plywood and other splinter-prone materials. One insert has a short center slot for use with tapered tooth blades up to 1/4" wide. The other insert has a long center slot for use with tapered tooth blades that are 3/8" wide. DO NOT USE BASE INSERTS WITH ANY TYPE BLADES OTHER THAN THOSE DESCRIBED. TO DO SO, MAY RESULT IN BLADE BREAKAGE OR DAMAGE TO THE SAW.

To install insert, remove saw blade from Bayonet Saw and locate insert in the throat of the saw base with the slot forward and the beveled side of the slot up. Install appropriate blade as outlined in section INSTALLING THE BLADE with the blade body in the slot of the insert.

When cutting plywood with the base insert installed in the saw, it is not necessary for the good or finished side of the material to be down as would be the practice with an ordinary jig saw. The small teeth of the blade and speed of the saw in conjunction with the base insert will prevent splintering or chipping of the top surface.



Fig.` 3

## PLUNGE CUTTING

**AWARNING** When cutting into a wall avoid contact with all exposed metal on the tool to prevent electrical shock hazard resulting from accidentally cutting into a live wire. HOLD SAW AS ILLUSTRATED IN FIG. 4.

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One of the distinctive and important features of the Porter-Cable bayonet saw is the ability to start the cut (in wood only) within an area without making drilled holes first. This is especially important when making cut-outs for electric outlets in finished walls, openings in cabinet tops for sinks and openings for plumbing fixtures.

First, measure the area to be cut out and mark it clearly with a pencil, chalk or scriber. Choose a convenient starting point and hold the bayonet saw over the point and inside the line of waste. Tip the machine forward until the front edge of the base rests firmly on the surface of the material with the tip of the blade clear of the work surface, as shown in Fig. 4. Turn motor "ON" and slowly lower the back of the machine allowing blade to bite into surface of work. Do not move the machine forward until the base is fully seated on the surface of the work. Now, guide the cutting along the inside of the marked area. If sharp corners are desired cut right up to the corner of the marked edge. Stop and back up just a bit, start the turn and cut along the side. Do the same at each corner until you end up where you started. Then, go back and cut into each corner from the opposite direction. The base of the machine is wide enough so you will have a solid guiding surface on either side of the cut.

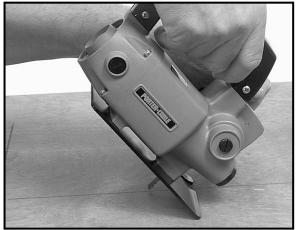


Fig.`4

## USING THE JIG SAW

First, secure the material in a bench vise or with clamps to the work table. This is especially important when sawing small pieces or thin material. As the work progresses in scroll or curved cut-out pieces, the material can be re-adjusted to accommodate the movement of the saw. If the work is large enough, it may be held only by hand across saw horses or some other rigid support. The saw cuts freely with only light forward feed pressure on the tool. Forcing the saw will not cause it to cut faster. Be careful not to twist the saw while making the cut. This will cause blade breakage. To start the cut, secure the work, mark the line of cut clearly, place forward edge of saw base on edge of the material, start motor and when motor is up to desired speed, move blade into the work.

**NOTE:** Because of the variable speed feature, trial cuts at varying speeds should be made on scrap material to determine the cutting speed for the most desirable results.

**DO NOT FORCE, LET THE SAW DO THE WORK.** Move saw forward only fast enough to keep blade cutting. If cutting becomes difficult, the blade is dull and should be changed at once. A dull blade not only makes cutting more difficult but also overburdens the motor. You will find the open throat and clear forward edge of the saw base make it easy to follow the line.

## LUBRICATION

Although all Porter-Cable tools have been thoroughly lubricated with a sufficient amount of high grade lubricant at the time of manufacture, it is recommended that the oil level in the gear chamber be checked before using your saw and periodically thereafter as follows:

## **AWARNING** DISCONNECT TOOL FROM POWER SOURCE.

- 1. Remove saw blade and set machine on a level surface.
- 2. Remove oil plug from front of machine.
- 3. Gear lubricant should be level with the bottom of the oil plug hole, but should not run out. If this condition does not exist, tip machine up and add a small amount of Porter-Cable lubricant until it is even with the bottom of the hole.
- 4. **NOTE:** DO NOT OVERFILL. If you do, the pressure created by the pumping action of the gears may force lubricant through seals and into motor and mechanism chamber causing damage to the machine.
- 5. To change lubricant in the mechanism housing it is necessary to dismantle the tool. This operation should only be performed by a AUTHORIZED PORTER-CABLE SERVICE STATION or a PORTER-CABLE•DELTA FACTORY SERVICE CENTER.

However, the lubricant may be checked as follows:

- A. Remove all traces of the sawdust and grime from around the gear housing and blade holder to eliminate the possibility of contaminating the mechanism lubricant.
- B. Remove four gear housing cover screws located around the knob on the left side of the machine.
- C. Lift off cover and gasket being careful not to damage the gasket.
- D. There should be a thin layer of lubricant around the blade holder. If this lubricant is contaminated, take your saw to an authorized Porter-Cable Service Station for a thorough cleaning and lubrication. If lubricant is needed, brush a thin coat of Porter-Cable lubricant on the blade holder. **NOTE:** An excessive amount of lubricant may leak through the blade holder dust seal and spatter on material being cut.
- E. Replace gasket and gear housing cover and tighten four screws securely.

# TROUBLESHOOTING

For assistance with your tool, visit our website at <u>www.porter-cable.com</u> for a list of service centers or call the Porter-Cable help line at 1-800-487-8665.

# 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.

## **AWARNING** Wear ANSI Z87.1 safety glasses while using compressed air.

## FAILURE TO START

Should your tool fail to start, check to make sure the prongs on the cord plug are making good contact in the outlet. Also, check for blown fuses or open circuit breakers in the line.

## BRUSH INSPECTION (If applicable)

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 lubricated 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

## **REPLACEMENT PARTS**

When servicing use only identical replacement parts. For a service parts list or to learn more about Porter-Cable visit our website at <u>www.porter-cable.com</u>

## SERVICE AND REPAIRS

All quality tools will eventually require servicing, or replacement of parts due to wear from normal use. For assistance with your tool, visit our website at **www.porter-cable.com** for a list of service centers or call the Customer Care Department at **1-800-487-8665.** All repairs made by our service centers are fully guaranteed against defective material and workmanship. We cannot guarantee repairs made or attempted by others.

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 <u>www.porter-cable.com</u> for a catalog or for the name of your nearest supplier.

**AWARNING** 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 safest operation, only Porter-Cable•Delta recommended accessories should be used with this product.

## WARRANTY

## PORTER-CABLE LIMITED ONE YEAR WARRANTY

Porter-Cable warrants its Professional Power Tools for a period of one year from the date of original purchase. We will repair or replace at our option, any part or parts of the product and accessories covered under this warranty which, after examination, proves to be defective in workmanship or material during the warranty period. For repair or replacement return the complete tool or accessory, transportation prepaid, to your nearest Porter-Cable Service Center or Authorized Service Station. Proof of purchase may be required. This warranty does not apply to repair or replacement required due to misuse, abuse, normal wear and tear or repairs attempted or made by other than our Service Centers or Authorized Service Stations.

ANY IMPLIED WARRANTY, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WILL LAST ONLY FOR ONE (1) YEAR FROM THE DATE OF PURCHASE.

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

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

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

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 Diego 92111 7638 Clairemont Blvd. Phone: (858) 277-9595 Fax: (858) 277-9696

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

### COLORADO

Arvada 80003 (Denver) 8175 Sheridan Blvd., Unit S Phone: (303) 487-1809 Fax: (303) 487-1868

### FLORIDA

Davie 33314 (Miami) 4343 South State Rd. 7 (441) Unit #107 Phone: (954) 321-6635 Fax: (954) 321-6638

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

#### GEORGIA

Forest Park 30297 (Atlanta) 5442 Frontage Road, Suite 112 Phone: (404) 608-0006 Fax: (404) 608-1123

#### ILLINOIS

Addison 60101 (Chicago) 400 South Rohlwing Rd. Phone: (630) 424-8805 Fax: (630) 424-8895

Woodridge 60517 (Chicago) 2033 West 75th Street Phone: (630) 910-9200 Fax: (630) 910-0360

#### MARYLAND

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

### MASSACHUSETTS

Franklin 02038 (Boston) Franklin Industrial Park 101E Constitution Blvd. Phone: (508) 520-8802 Fax: (508) 528-8089

#### MICHIGAN

Madison Heights 48071 (Detroit) 30475 Stephenson Highway Phone: (248) 597-5000 Fax: (248) 597-5004 MINNESOTA Minneapolis 55429 5522 Lakeland Avenue North Phone: (763) 561-9080 Fax: (763) 561-0653

#### MISSOURI

North Kansas City 64116 1141 Swift Avenue 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

### NORTH CAROLINA

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

#### OHIO Columbus 43214 4560 Indianola Av

4560 Indianola Avenue Phone: (614) 263-0929 Fax: (614) 263-1238 Cleveland 44125 8001 Sweet Valley Drive Unit #19 Phone: (216) 447-9030 Fax: (216) 447-3097

### OREGON

Portland 97230 4916 NE 122 nd Ave. Phone: (503) 252-0107 Fax: (503) 252-2123

### PENNSYLVANIA

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

### TEXAS

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

Houston 77043 4321 Sam Houston Parkway, West Suite 180 Phone: (713) 983-9910 Fax: (713) 983-6645

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