

۲ TM-PFT505.1005 Rev.B Page 2 Tuesday, May 29, 2001 6:01 PM



# PFT505

### INDEX

Hazard Identification
Operator Safety Instructions 3   General 3   Tool Set-Up 3   Operating Tool 3   Tool Maintenance 4
Introduction 4   Power Requirements 5   Grounding 5   Extension Cord Requirements 5
Tool Nomenclature6
Receiving Tool7

Read this first - Hazard Identification vels shown on warning labels or to indicate proper safety procedures in this Manual are d below. via



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This safety alert symbol indicates important safety messages on warning labels and in this manual. When you see this symbol be alert to the possibility of personal injury and carefully read and inderstand the message that follows.

# **A L'ANGER**

ord ") ANGER" signifies an immediate The use of the kennood of serious personal injury or hazard v structions, including recommended death **L**if precautio re not followed.

#### WARNING 4

The use of the word "WARNING" signifies the presence of hazards or unsafe practices which could result in serious personal injury or death if instructions, including recommended precautions, are not followed.

# ▲ CAUTION

The use of the word "CAUTION" signifies possible hazards or unsafe practices which could result in personal injury, product or property damage if instructions, including precautions, are not followed.

### NOTICE

The use of the word "NOTICE" signifies special instructions which are important but not related to hazards.

TM-PFT505.1005 Rev.B Page 3 Tuesday, May 29, 2001 6:01 PM

### PFT505

## **OPERATOR SAFETY INSTRUCTIONS**

Using this tool requires dexterity and mechanical skills, as well as sound safety habits. Although this tool is manufactured for safe dependable operation, it is impossible to anticipate those combinations of circumstances which could result in an accident. The following instructions are recommended for safe operation of the tool. The operator is cautioned to always practice "Safety First" during each phase of use, including setup and maintenance of this unit.

### GENERAL

- **1.** Read this operating manual before operating, servicing or maintaining this tool. Become familiar with the tool's operations, applications and limitations. Be particularly aware of its specific hazards. Store the operator's manual in a clean area and always at a read w available
- its specific hazards. Store the operator's manual in a clean area and always at a readily available location. Additional copies are available at no charge upon request by calling or whing to Victaulic Tool Company.
- Use only Victaulic replacement parts and accessories. Use of improper part and accessories may be hazardous.
- 3. Victaulic Pressfit System products are designed for use only with UL/ULC Listed and FM Approved Schedule 5 steel pipe or approved Victaulic stain as steel pipe. Victaulic stainless steel pipe carries the label "Victaulic<sup>®</sup> Pressfit<sup>®</sup> Pipe. Certified For Use With Pressfit Products."

Do not use the tool for anything other than its intended purpose.

### **TOOL SET-UP**

- **1. Ground the Pressfit tool.** Be sure the Pressfit tool is connected to an internally grounded electrical system. 20 amps maximum.
- 2. Avoid dangerous environments. Don't expose power tools to rain. Don't use the tool in damp or wet locations and avoid locations near flamma de liquids and gaseous, explosive atmospheres.

### **OPERATING TOOL**

- **1. Inspect the tool for any obstructions.** Recertain that all guards and tool parts are properly installed and secured.
- 2. Keep work area clean. Cluttered areas, benches and slippery floors invite accidents.
- 3. Keep alert. Do not operate took if hor drowsy from medication or fatigue. Avoid horseplay around tool and keep bystancers a vale distance from tool. Don't operate tool when you are tired.
- 4. Wear safety glasses and foo wear.
- 5. Wear proper apparent the wear loose clothing (unbuttoned jackets or loose sleeve cuffs), loose gloves or jewely that can get caught in moving parts. Rubber gloves and non-skid footwear are recommended when working outdoors.
- 6. Keep fingers and hands away from press jaws during pressing.
- **7.** Be sure you have adequate space to operate the tool. Assembly of the Pressfit System products earlies sufficient space to open the jaws and properly place them over the fittings.
- 8. Don't farce the tool. It will do the job better and safer at the rate for which it was designed.
- 9. Don't abute cord. Never carry tool by cord or yank it to disconnect from receptacle. Keep cord from heat, oil, pinch points, and sharp edges.
- Secure work. Use clamps, vice or secure pipe hangers to hold work and free the hands of the operator.
- 11. Don't overreach. Keep proper footing and balance at all times.
- **12.** Disconnect power, when not in use, before servicing, and when changing press jaws.
- 13. Avoid unintentional starting. Don't carry plugged in tool with fingers on switch.
- 14. When tool is used outdoors, use only extension cords suitable for outdoor use.
- 15. Use only Victaulic Pressfit System "press jaws", sizes 1/2, 3/4, 1, 11/4, 11/2, and 2".
- **16.** Store idle tools. When not in use, tools should be stored in a dry, high or locked up place, out of reach of children.
- 17. Keep work area well lit.
- 18. Guard against electric shock. Prevent body contact with grounded surfaces. For example: Pipes, radiators, ranges, refrigerator enclosures.

3

TM-PFT505.1005 Rev.B Page 4 Tuesday, May 29, 2001 6:01 PM

# PFT505

### **TOOL MAINTENANCE**

- 1. Disconnect the power cord prior to servicing. Repair should only be attempted by authorized personnel.
- 2. Check for damaged parts. Before further use of the tool or jaws, parts you suspect may be damaged should be carefully checked to determine that they will operate properly and perform their intended function. Check for alignment of moving parts, breakage of parts, mounting, and any other conditions that may affect tool or jaw operation. A 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 or off.
- 3. Clean tool periodically following the procedure in the maintenance section.
- **4. Maintain tools with care.** Keep tools clean for best and safest performance. Follow instructions for lubricating and changing press jaws. Inspect tool cords periodically and, if damaged, have repaired by authorized service facility. Inspect extension cords periodically and replace if damaged. Keep tool dry, clean, and free from oil and grease.

### INTRODUCTION

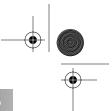
Victaulic Pressfit System products are designed for use only with IL/ULC Listed and FM Approved Schedule 5 steel pipe or approved Victaulic stainless steel pipe. Actualic stainless steel pipe carries the label "Victaulic<sup>®</sup> Pressfit<sup>®</sup> Pipe. Certified For Use With Pressfit Products."

The Pressfit System requires a Pressfit Tool designer to securing Pressfit products onto pipe. The tool must be equipped with the proper sized Victaulh press jaws that correspond with the size of the pipe and the Pressfit products being used. The Pressh Tool package includes the actual pressing tool and any customer specified press jaws. Jaws the vailable separately for rental or purchase in  $\frac{1}{2}$ .  $\frac{3}{4}$ , 1,  $\frac{1}{4}$ ,  $\frac{1}{2}$  and  $\frac{2}{3}$  sizes. The PFT505 Pressfit hours designed for industrial and trade use only.

# CAUTION

 Victaulic Pressfit System products are designed for use only with UL/ULC Listed and FM Approved Schedule 5 steel pipe or approved Victaulic standous teel pipe. Victaulic stainless steel pipe carries the label "Victaulic® Pressfit® Pipe. Certified For Use Wint Rest fit Products."

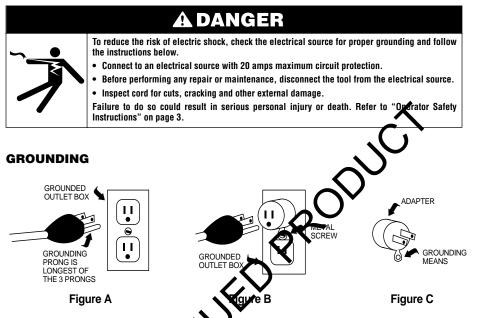
Failure to use approved pine may result in improper assembly and/or property damage.



# PFT505

### **POWER REQUIREMENTS**

The PFT505 is electrically powered and requires a 120v/60 cycle/6.0 amp AC current supply. Before operating the unit, make certain that the available voltage is the same as voltage shown on the nameplate.

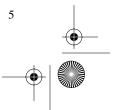


This tool must be grounded while in ust to protect the operator from electric shock. The tool is equipped with an approved three-contract, cord and three-prong grounding type plug to fit the proper grounding type receptacle. The green (or green and yellow) conductor in the cord is the grounding wire. Never connect integreen (or green and yellow) wire to a live terminal. If your unit is for use on less than 150 volts, it is as a plug like that shown in Figure A. An adapter, Figures B and C, is available for connecting Figure ) plugs to two-prong receptacles. The green-colored rigid ear, lug, etc. must be connected to per an ant ground such as a properly grounded outlet box.Refer to "Tool Set Up" page 3.

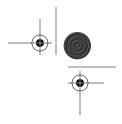
## EXTENSION CORD REQUIREMENTS

Use only 3-wire extension cords that have 3-prong grounding type plugs and 3-pole receptacles that accept the pole plug. Replace or repair damaged cords.

				1005-1A
	Tool Rating	Cord Length Gauge		
Tool	Volt/Amps	25'	50'	100'
PFT505	120/6.0	18	16	14



( )TM-PFT505.1005 Rev.B Page 6 Tuesday, May 29, 2001 6:01 PM

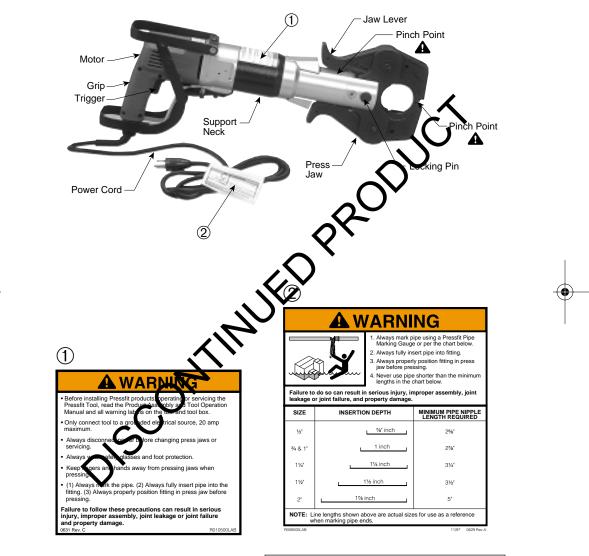


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# **TOOL NOMENCLATURE**





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## **RECEIVING TOOL**

The Victaulic  $\ensuremath{\mathsf{PFT505}}$  is supplied with the following items:

- 1. Pressfit tool with detachable cord.
- 2. Jaws for ½, ¾, 1, 1¼, 1½ and 2" nominal IPS size pipe as ordered at the time of lease or purchase. Packaged separately. (See Accessories.)
- "Victaulic Pressfit Product Assembly Instructions" (I-500)
- 4. "PFT505 Operating and Maintenance Instructions Manual"
- **5.** Pressfit marking gauges and paint stick.**6.** Wire cleaning brush.

Upon receipt of tools, check to be certain all necessary parts are included. Should containers not contain appropriate components, notify your Victaulic distributor or Victaulic representative.

# PFT505

### **TOOL SETUP**

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• Do not connect power until instructed otherwise. Accidental start up of tool may result in serious personal injury.

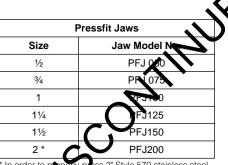
# PRESS JAW INSTALLATION AND REMOVAL

PRESS JAW INSTALLATIO

A separate press jaw set is available for each pipe size  $\frac{1}{2}$ ,  $\frac{3}{4}$ , 1, 1 $\frac{1}{4}$ ,  $\frac{1}{4}$ , and 2". The proper size press jaw must be used for the size of fitting being installed StocAccessories.

Press jawr early attach to the tool as follows:





\* In order to properly pless 2" Style 570 stainless steel elbows, your stees laws must contain the following prefixes of sufficies.

"RX Suffix Example - 20000781RX "PFY Prefix" Example - PFY001 "PFZ Prefix" - Example - PFZ002 "3DC Prefix" - Example - 3DC007 "2DC Prefix" - Example - 2DC20001

ACCESSORIES

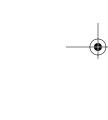


**2.** Place the proper size press jaw on a table or the floor. Slide the locking pin to its fully open position.



**3.** Align Pressfit Tool over the jaws, engaging the tool into the jaws being certain to check the jaw alignment. When in position push the locking pin into the tool until it clicks into the fully locked position.





# PFT505

### PRESS JAW REMOVAL

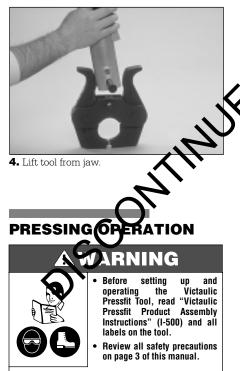
1. Unplug the tool.

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**2.** Position tool vertically with the press jaw resting on a table or the floor.



**3.** While holding the tool vertically, slide locking pin to its fully open position.



Failure to follow instructions and labels may result in serious personal injury, improper assembly, joint leakage or joint failure, or property damage.

8

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- The Pressfit tool is designed to be used ONLY with Victaulic Pressfit products and designated pipe. Read the "Victaulic Pressfit Product Assembly Instructions" (I-500).
- The proper size press jaw must be used for the size of fitting being installed.

Failure to follow instructions may result in personal injury, product or property damage.

# **A** WARNING

 Inspect tool and jaws for loose, broken or damaged parts which may hinder operation.

Failure to follow this instruction may cause serious personal injury, improper a serioly, joint leakage, joint failure or propert damage.

# DANGER



damage. Failure to do so could result in serious personal injury or death.

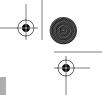
Inspect cord for cuts, cracking and other external

**1.** Attach cord to tool and plug into an internally grounded electrical source. 20 amps maximum.



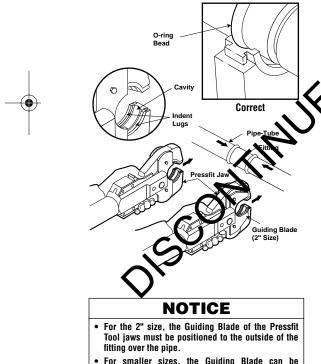
**2.** Pick up tool placing hands as shown.

TM-PFT505.1005 Rev.B Page 9 Tuesday, May 29, 2001 6:01 PM



**3.** Open the press jaws by pressing the jaw levers.

**4.** Slide the press jaws over the fitting with the press jaw cavity directly aligned with the Oring pocket (raised area of the fitting).



• For smaller sizes, the Guiding Blade can be positioned over either the pipe or the fitting.



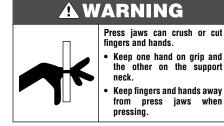
**PFT505** 

**5.** Release the paw levers to close the jaws and move han t back to support neck of tool.

# A WARNING

 Creck to be certain that the o-ring pocket (raised area) of the Pressfit fitting is fully seated in the press jaw cavity and that the indent lugs are over the fitting.

Failure to fully seat press jaw cavity prior to pressing may cause serious personal injury, improper assembly, joint leakage or joint failure, and property damage.



**6.** When the tool is properly positioned, fully press the switch and hold it down until the pressing cycle is complete.

9

TM-PFT505.1005 Rev.B Page 10 Tuesday, May 29, 2001 6:01 PM



# PFT505



## NOTICE

- The tool will run automatically once the jaws start pressing the fitting even if the switch is released. Should the need arise, the automatic run feature can be overridden by pressing the red button on the side of the tool. This will retract the jaws even if the switch is on.
- This tool is equipped with a variable speed switch. For quickest pressing, hold switch all the way in.
- 7. Release switch.

**8.** Release the jaws by pressing the jaw levers. Remove the tool from the pipe.

**NOTICE** The tool requires approximately six seconds to reset itself before another pressing cycle can be started.

# ADANGER ADANGER • To reduce risk of electric shock, always unplug tool after use • Always unplug tool before changing press jaws or servicing.

Failure to do so could result in serious personal injury or death.

### NOTICE

Remember that preventative maintenance during operation will pay for itself in repair and operating savings!

### **CLEANING AND LUBRICATION**

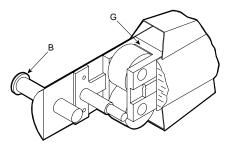
Unplug Pressfit Tool and remove press jaws prior to all repair and maintenance work.

### PRESS JAWS



At frequent intervals, remove the jaws from the source of the pressing suraces using the small wire brush provided with too. After cleaning the jaws, lubricate the bolts, pins and sliding segment of the jaws with a commercial machine oil.

### **ROLLER DRIVE AND LOCKING PIN**



On a daily basis, clean the guide bracket "G" and the holding pin "B" on the Pressfit tool. After cleaning, lubricate the holding pin "B" with a commercial machine oil. Lubricate the guide bracket "G" with a coating of NLGI Grade 2, lithium based lubricant with 3% molybelenum such as Sunoco<sup>®</sup> Contractor Grease #2 (Vic P/N N-M02-000-010). Severely worn or damaged surfaces must be replaced.



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## TROUBLESHOOTING

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Problem	Possible Cause	Solution
Tool will not operate.	Tool not plugged in.	Plug tool into appropriate grounded outlet or extension cord.
	Fuse blown or circuit breaker tripped.	Replace fuse or reset circuit breaker.
	Damaged power cord or plug.	Inspect, repair as necessary.
The motor runs but does not press.	Wrong size jaws in tool.	Check the jaw size and remace with proper size. (See Accessories.)
	Attempting to press pipe other than UL/ULC Listed and FM Approved Schedule 5 steel pipe or approved Victaulic stainless steel pipe.	Use only UL/ULC Interland FM Approved Schedule Steel pipe or approved View in stanless steel pipe.
	Attempting press cycle immediately following last press cycle.	There is a waiting time of a proximately six seconds after each byce before a new press cycle can be started; Longer if tool is very cold.
Jaws do not fully press the fitting.	Wrong size jaws in tool.	Check jaw size and replace with proper size. (See Accessories.)
	Jaws not positioned over thing properly.	Check and ensure that O-ring bead on fitting is centered in jaw cavity
	Attempting to presso pipe other than UL/ULC Long and FM Approved Schedul, 5 steel pipe or approved Victarilie shinless steel pipe.	Use only UL/ULC Listed and FM Approved Schedule 5 steel pipe or approved Victaulic stainless steel pipe.
	xtension cord too long or of wrong	Check extension cord.
~S	Schedule 5 steel pipe harder than Rb70.	Check pipe hardness.
$\mathbf{\nabla}^{*}$	Jaws dirty.	Clean jaws according to maintenance procedures.
2" jaws will not fit over the fitting.	Jaw guiding blade is aligned with the fitting not the pipe.	Turn jaw or entire Pressfit tool around so that the guiding blade is on the pipe side.
In cold weather pressing cycle time is slow.	Normal for cold weather due to hydraulic oil thickening.	Run tool through 10 complete cycles without performing presses on Pressfit products. This warms up the hydraulic oil speeding cycle time. The pressing cycle time may be slower in cold weather, however the pressing

11

TM-PFT505.1005 Rev.B Page 12 Tuesday, May 29, 2001 6:01 PM



### Victaulic Tool Company

**Tool Shipments:** 1326 Tatamy Road, Easton, PA 18045-7400 Sales & Lease Payments: P.O. Box 8588-244, Phila., PA 19171-0244

### **WORLD HEADQUARTERS**

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wn\_PA 18103

V742-5842 • Cust Fax: 888/448-3537

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22633 83rd Ave. So. . Kent, WA 98032

Tel : 915/332-1489 • Local Fax: 915/332-4924

045 Paris Street • Denver, CO 80239 Cust.Care: 800/742-5842 • Cust. Fax: 888/448-3528

Cust Care: 800/742-5842 • Cust. Fax: 888/448-3530

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20934 So. Santa Fe Ave. • Long Beach, CA 90810 Cust Care: 800/742-5842 • Cust. Fax: 800/448-3542

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1818 Vultee Street • Allentow

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Victaulic Technica

Phone: 610/559

PERMIN BASIN

PACIFIC - NORTH

MID-ATLANTIC

■ PACIFIC - SOUTH

CKY MOUNTAIN

MID-7177 Reils \*\* Care

Loc

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P.O. Box 31 • Easton, PA 18044-0031 Phone: 610/559-3300 • Fax: 610/250-8817

### **Fire Protection Division**

**CUSTOMER CARE CENTER** 

Phone: 1-800-PICK-VIC (1-800-742-5842)

e-mail: pickvic@victaulic.com EAX: 610/923-3090

#### **Customer Care Centers**

- SOUTHEAST FIRE PROTECTION
- Phone: 877/773-8322 Fax: 877/776-9769 ■ NORTHEAST FIRE PROTECTION
- Phone: 888/265-0805 Fax: 888/265-0918
- CENTRAL FIRE PROTECTION Phone: 888/448-3534 • Fax: 888/448-3595
- WESTERN FIRE PROTECTION Phone: 877/487-7231 • Fax: 877/487-7232

### NORTHEAST

•

487-7232 United States Distribution Center ■ MID-CONVINENT 7477 Railson Street • Houston, TX 77078 10 2 Out Fax: 888/ 7 Forge Parkway • Franklin, MA 02038 Cust.Care: 800/742-5842 • Cust. Fax: 888/265-0926

- NEW YORK METRO 4901 Kesslersville Road • Easton, PA 18040 Cust.Care: 800/742-5842 • Cust. Fax: 800/437-6573
- SOUTHEAST 650 Coastline Drive • Yulee, FL 32097 Cust.Care: 800/742-5842 • Cust. Fax: 888/20
- ATLANTIC

#### 166 Thorn Hill Road • Warrendale, PA Cust.Care: 800/742-5842 • Cust. F

MIDWEST

730 Thomas Drive • Bensenvill Cust Care: 800/742-5842 • Cus 88/265-2018

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CENTRAL STAT Kansas City, MO 64120 5900 Deram Cust. Fax: 888/448-3540 Cust.Care:

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- ONTARIO NOR TH
- 1070 Elisabella Street Sudbury, ON P3A 5K2 Phone: 705/560-9595 FAX: 705/560-9490
- PACIFIC

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15353 114th Avenue • Edmonton AB T5M 3S9 Phone: 780/452-0680 • FAX: 780/452-2430

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TM-PFT505 1005 Rev.B 3/98

