









**Alcoa Fastening** Systems<sup>®</sup>



## INSTRUCTION MANUAL

# 2580 ALL MODELS

HYDRAULIC INSTALLATION TOOL



Makers of Huck®, Marson®, Recoil® Brand Fasteners, Tools & Accessories







## **EC** Declaration of Conformity

Alcoa Fastening Systems, Industrial Products Group, 1 Corporate Drive, Kingston, NY, 12401, USA

#### Description of Machinery:

Models 2400 series, 2500 series, and 2580 hydraulic installation tools, and specials based on their designs.(e.g. PR####)

#### Relevant provisions complied with:

Council Directive related to Machinery (2006/42/EC)

British Standard related to hand held, non-electric power tools (EN 792-1)

#### European Representative:

Rob Pattenden, Huck International, Ltd. Unit C Stafford Park 7, Telford Shropshire TF3 3BQ, England, United Kingdom

#### Authorized Signature/date:

I, the undersigned, do hereby declare that the equipment specified above conforms to the above Directive(s) and Standard(s).

Signature:

Full Name:

Larry M. Krieg

Position:

**Engineering Manager** 

Installation Systems Division

Place:

Kingston, New York, USA

Date:

December, 2011

## Declared dual number noise emission values in accordance with ISO

A weighted sound power level, LWA: 85 dB (reference 1 pW) Uncertainty, KWA: 3 dB

A weighted emission sound pressure level at the work station, LpA: 74 dB (reference 20 µPa)

Uncertainty, KpA: 3 dB

C-weighted peak emission sound pressure level, LpC, peak: 119 dB (reference 20 µPa)

Uncertainty, KpC: 3 dB

Values determined according to noise test code ISO 15744, using as basic standards ISO 3744 and ISO 11203. The sum of a measured noise emission value and its associated uncertainty represents an upper boundary of the range of values which is likely to occur in measurements.

Declared vibration emission values in a	ccordance with EN 12096
Measured Vibrations emission value, a:	.20 m/s <sup>2</sup>
Uncertainty, K:	.17 m/s <sup>2</sup>
Values measured and determined according to EN 1033	



## **CONTENTS**

DECLARATION OF CONFORMITY	.2
SAFETY	.4
DESCRIPTION AND SPECIFICATIONS	.5
PRINCIPLE OF OPERATION	.8
Preparation for Use	.9
CHECKING AND ADJUSTING OUTPUT PRESSURES	
Power Source Connection Precaution	
OPERATING INSTRUCTIONS	10
Maintenance	12
Preventive Maintenance	
System Inspection	
POWERIG® Hydraulic Unit Maintenance	
Tool Maintenance	
Nose Assembly Maintenance	
General Precaution	
TROUBLESHOOTING	14
DISASSEMBLY	15
Assembly	17
SUBASSEMBLY PART NUMBERS AND NOTES	17
STICKER LOCATIONS	23
Spare Parts Service Kit	23
Conversion Kit, 123020; Hose Kits	24
REMOVING & INSTALLING PISTON25-2	26
OPTIONAL HOSE KIT, 122854	27
AIR & HYDRAULIC CONVERSION KIT	28
STROKE LIMITER KIT	28
Tool and Hose Assembly Drawings	34





## SAFETY INSTRUCTIONS

#### **GLOSSARY OF TERMS AND SYMBOLS:**



Product complies with requirements set forth by the relevant European directives.



**READ MANUAL** prior to using this equipment.



EYE PROTECTION IS REQUIRED while using this equipment.



**HEARING PROTECTION IS REQUIRED** while using this equipment.



WARNINGS: Must be understood to avoid severe personal injury.



**CAUTIONS:** show conditions that will damage equipment and or structure.

Notes: are reminders of required procedures.

Bold, Italic type and underlining: emphasizes a specific instruc-

- 1. A half hour long hands-on training session with qualified personnel is recommended before using Huck equipment.
- 2. Huck equipment must be maintained in a safe working condition at all times. Tools and hoses should be inspected at the beginning of each shift/day for damage or wear. Any repair should be done by a qualified repairman trained on Huck procedures.
- 3. Repairman and Operator must read manual prior to using equipment. Warning and Caution stickers/labels supplied with equipment must be understood before connecting equipment to any primary power supply. As applicable, each of the sections in this manual have specific safety and other information.
- 4. Read MSDS Specifications before servicing the tool. MSDS Specifications are available from the product manufacturer or your Huck representative.
- 5. When repairing or operating Huck installation equipment, always wear approved eye protection. Where applicable, refer to ANSI Z87.1 - 2003
- 6. Only genuine Huck parts shall be used for replacements or spares. Use of any other parts can result in tooling damage or personal injury.
- 7. If a part affixed with warning labels is replaced, or labels are missing or damaged, the end user is responsible for replacement. Refer to assembly drawing and parts list for replacement part number and proper placement.
- 8. Disconnect primary power source before performing maintenance on Huck equipment or changing Nose Assembly.
- 9. Tools and hoses should be inspected for leaks at the beginning of each shift/day. If any equipment shows signs of damage, wear, or leakage, do not connect it to the primary power supply.
- 10. Mounting hardware should be checked at the beginning of each shift/day.
- 11. Make sure proper power source is used at all times.

- 12. Release tool trigger if power supply is interrupted.
- 13. Tools are not to be used in an explosive environment unless specifically designed to do so.
- 14. Never remove any safety guards or pintail deflectors.
- 15. Where applicable, ensure deflector or pintail collector is installed and operating prior to use.
- 16. Never install a fastener in free air. Personal injury from fastener ejecting may occur.
- 17. Where applicable, always clear spent pintail out of nose assembly before installing the next fastener.
- 18. There is possibility of forcible ejection of pintails or spent mandrels from front of tool.
- 19. Check clearance between trigger and work piece to ensure there is no pinch point when tool is activated. Remote triggers are available for hydraulic tooling if pinch point is unavoidable.
- 20. Unsuitable postures may not allow counteracting of normal expected movement of tool.
- 21. Do not abuse tool by dropping or using it as a hammer. Never use hydraulic or air lines as a handle or to bend or pry the tool. Reasonable care of installation tools by operators is an important factor in maintaining tool efficiency, eliminating downtime, and in preventing an accident which may cause severe personal injury.
- 22. Never place hands between nose assembly and work piece. Keep hands clear from front of tool.
- 23. There is a risk of crushing if tool is cycled without Nose Assembly installed.
- 24. Tools with ejector rods should never be cycled with out nose assembly installed.
- 25. When two piece lock bolts are being used always make sure the collar orientation is correct. See fastener data sheet for correct positioning.
- 26. Tool is only to be used as stated in this manual. Any other use is prohibited.
- 27. There is a risk of whipping compressed air hose if tool is pneudraulic or pneumatic.
- 28. Release the trigger in case of failure of air supply or hydraulic
- 29. Use only fluids or lubricants recommended.
- 30. Disposal instruction: Disassemble and recycle steel, aluminum and plastic parts, and drain and dispose of hydraulic fluid in accordance with local lawful and safe practices.
- 31. If tool is fixed to a suspension device, ensure that the device is secure prior to operating the tool.



## **DESCRIPTION**

Model 2580 Hydraulic Installation Tool with appropriate nose assembly installs a wide range of Huck blind fasteners and HUCKBOLT<sup>®</sup> Fasteners. This lightweight and compact mini tool is particularly adapted to installing fasteners in limited clearance areas. Each tool is complete with hydraulic hoses and couplings; electric switch and cord. The tool is basically a cylinder and piston assembly. An unloading valve, designed to relieve hydraulic pressure at end of the PULL stroke, is positioned by the piston. End of piston rod is threaded - - retaining nut and stop are included for attaching nose assemblies.

Huck Hydraulic Installation Tools are designed to be powered by Huck POWERIG<sup>®</sup> Hydraulic Units. For most applications, the 2580 operates at 5,700 psi (39,000 kPa) PULL and 3,200 psi (19,300 kPa) RETURN pressures. Huck POWERIG Hydraulic Unit Models 913, 918, 918-5, 940, 956, or equivalent, are power source.

A specific nose assembly is required for each fastener type and size. Nose assemblies must be ordered separately.

## SPECIFICATIONS

8.40 in.	(21.3 cm)
2.16 in.	(5.5 cm)
6.48 in.	(16.5 cm)
6.58 lbs.	(3.0 kg)
7400 psi	(51,000 kPa)
3200 psi	(22,100 kPa)
.94 in.	(2.4 cm)
125°F	(51.7°C)
2 gpm	(7.5 l/m)
	2.16 in. 6.48 in. 6.58 lbs. 7400 psi 3200 psi .94 in. 125°F

- (1) Length and weight does not include hoses/cord or nose assembly.
- (2) For fastener size -12 and above, set PULL pressure to 7400 psi.

Pull capacity at 5700 psi: 8,240 lbs. (36.6 kN).

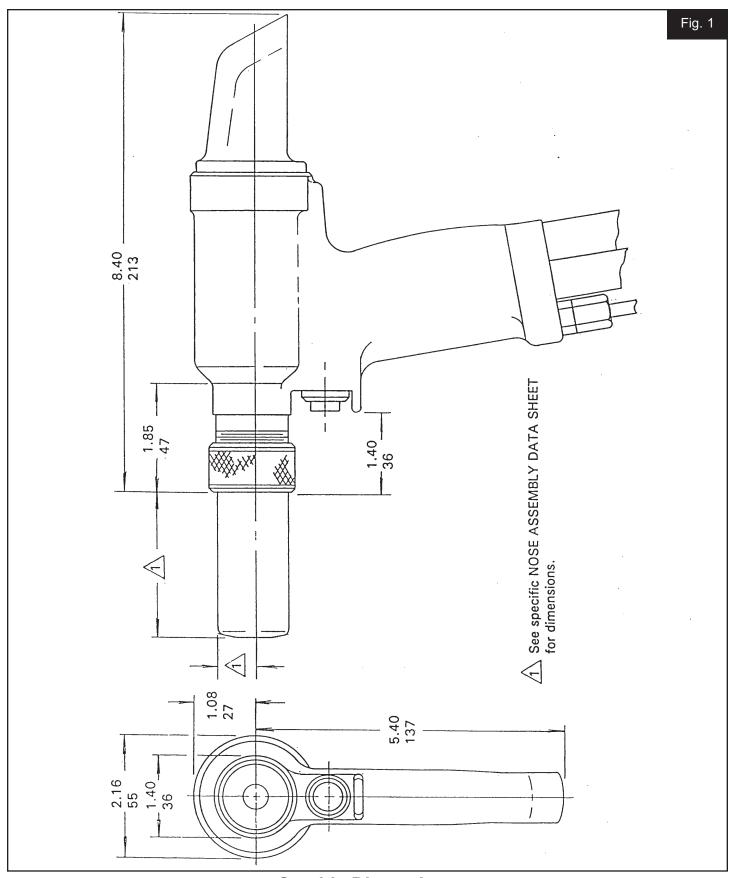
**Pull capacity at 7400 psi:** 10700 lbs. (47.5 kN).

Power Source: Huck POWERIG Hydraulic Unit

#### Hydraulic Fluid:

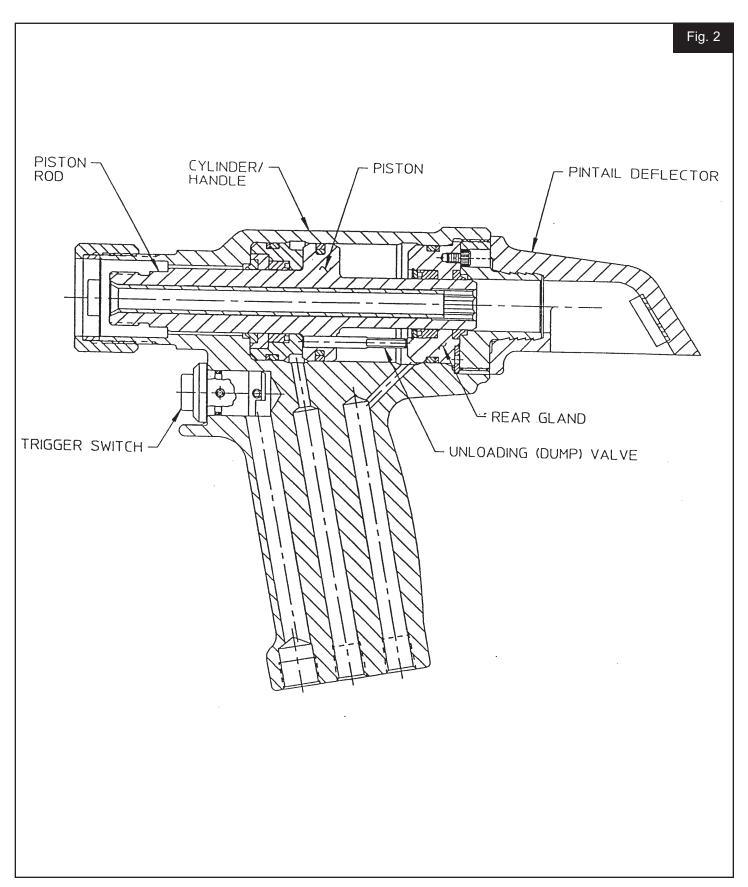
ATF meeting DEXRON III, DEXRON IV, MERCON, Allison C-4 or equivalent specifications. Fire resistant hydraulic fluid may also be used, and is required to comply with OSHA regulation 1926.302 paragraph (d): "the fluid used in hydraulic power tools shall be fire resistant fluid approved under schedule 30 of the US Bureau of Mines, Department of Interior, and shall retain its operating characteristics at the most extreme temperatures to which it will be exposed."





**Outside Dimensions** 





**Main Components** 





### PRINCIPLE OF OPERATION

#### Refer to Figure 2

An electric trigger controls PULL and RETURN strokes of tool. Press trigger to direct hydraulic pressure to PULL side of piston - - fastener installation begins.

At end of PULL stroke, before trigger is released, piston uncovers flats of unloading valve - - pressure is unloaded by allowing fluid to flow back to POWERIG hydraulic unit. Release trigger at end of PULL stroke when fastener is installed - - pressure is directed to RETURN side of piston and moves piston forward. Nose assembly, with tool, is pushed off fastener.



**CAUTION:** Keep dirt and other foreign matter out of hydraulic systems of the tools, hoses, couplers and POWERIG Hydraulic Unit. Do not let hose fittings and couplers contact a dirty floor or unclean working surface. Foreign matter in hydraulic fluid may cause hydraulic unit valves and tool valves to malfunction.

#### **WARNINGS:**

Operators of Huck Installation equipment must always wear approved eye protection.

Only Huck POWERIG ® Hydraulic Units are recommended as the power source for Huck tools. Units that deliver high pressure for both PULL and RETURN, and are not equipped with relief valves, are specifically not recommended. Severe personal injury or damage to equipment may occur when using other units.

**Proper PULL and RETURN pressures are** important for proper function of Installation Tools. Severe personal injury or damage to equipment may occur without correct pressures.

Gauge Set-up, P/N T-124833CE, is available for checking these pressures using instructions furnished with T-124833CE and in applicable POWERIG Hydraulic Unit instruction manuals. See Checking and Adjusting Output Pressures.





## PREPARATION FOR USE



**CAUTION:** Do not let disconnected hoses and couplers contact a dirty floor. Keep harmful material out of hydraulic fluid. Dirt in hydraulic fluid causes valve failure In Tool and In POWERIG Hydraulic Unit.

#### **Checking and Adjusting Output Pressures**

POWERIG ® Hydraulic Unit pressures must be checked and adjusted at first time start-up, after overhauling the unit and when troubleshooting.

WARNING: Correct PULL and RETURN pressures are required for operator's safety and for installation tool's function. Gauge Set-up T-124833CE is available for checking pressures. See tool's Table I -Specifications and INSTRUCTION MANU-AL for T-124833CE. Failure to verify pressures may result in severe injury.



WARNING: Be sure to connect tool's hydraulic hoses to POWERIG Hydraulic Unit before connecting tool's switch control cord to unit. IF NOT CONNECTED IN THIS ORDER, severe personal injury may occur.

- 1. Use Huck POWERIG Hydraulic Unit, or equivalent, that has been prepared per INSTRUCTION MAN-UAL. Check both PULL and pressures and adjust to pressures given in TABLE 1 - SPECIFICATIONS of this manual. See both hydraulic unit's and T-124833's manuals.
- 2. First, turn hydraulic unit to OFF, then, disconnect unit's power supply.

- 3. Connect tool's switch electrical cord to hydraulic
- 4. Connect hydraulic unit to power supply. Turn unit to ON. Hold tool trigger depressed for 30 seconds; depress trigger a few times to cycle tool and to circulate hydraulic fluid. Observe action of tool and check for leaks. Turn unit to OFF.
- 5. Select nose assembly for fastener to be installed. Disconnect tool's control switch electrical cord from hydraulic unit; disconnect hydraulic unit from power supply. Attach nose assembly to tool.
- 6. Reconnect hydraulic unit to power supply; reconnect tool's switch control cord to unit. Check operation of nose assembly. Install fasteners in test plate of correct thickness with proper size holes. Inspect installed fasteners. If fasteners do not pass inspection, see TROUBLESHOOTING to locate and correct tool malfunction.



### **OPERATING INSTRUCTIONS**



#### **WARNINGS:**

Do not pull on a pin unless fastener is placed in a workpiece with collar chamfer out toward tool. If collar is incorrectly placed, pin will eject from front with great force when pintail breaks off or when pin grooves are stripped. Also, broken pintails eject from deflector with speed and force - - be sure pintail deflector is attached to tool, and directed safely. Pins/pintails, as described, can cause serious injury.

Be sure of adequate clearance for both tool and operator's hands before proceeding as severe personal injury may occur.



CAUTION: Remove excessive gap from between sheets for enough of the pintail to stick out of the collar for all the jaw teeth to grip into pintail grooves. Jaws not fully gripping pintail grooves will be stripped or broken.

#### **HUCKBOLT** ® Fastener Installation

Place pin in work-hole and place collar over pin - - see <u>WARNINGS</u>. (if collar has only one tapered end, that end <u>MUST</u> be out toward tool.) Hold pin in hole. Push nose assembly onto pin protruding from collar until anvil touches collar Press trigger and hold down until collar is swaged and pintail breaks. Release trigger - tool/nose returns to starting position and is ready for next installation cycle.

#### **Blind Fastener Installation**

Fastener may be placed in work-hole or in end of nose assembly. Hold tool/nose at a right angle against work. Press trigger and hold down until

fastener is installed and pintail breaks. Release trigger -- tool/nose returns to starting position and is ready for



CAUTION: Do not abuse tool by dropping it, using as a hammer or otherwise causing unnecessary wear and tear.

Reasonable care of tools by operators is an important factor in maintaining tool efficiency and reducing downtime.

next installation cycle.



## **MAINTENANCE**

#### **Preventive Maintenance**

NOTE - Refer to the applicable section for *DIS-ASSEMBLY* or *ASSEMBLY*. For extra information refer to *TROUBLESHOOTING* and illustrations.

#### System Inspection

Operating efficiency of the tool is directly related to performance of complete system, including tool with nose assembly, hydraulic hoses, trigger and control cord, and POWERIG Hydraulic Unit. Therefore, an effective preventive maintenance program includes scheduled inspections of the system to detect and correct minor troubles.

- Inspect tool and nose assembly for external damage.
- Verify that hydraulic hose fittings and couplings, and electrical connections are secure.
- Inspect hydraulic hoses for damage. Replace hoses if damaged. Do not use hoses to carry tools.
- 4. Observe tool, hoses and POWERIG Hydraulic Unit during operation to detect abnormal heating, leaks or vibration.

## POWERIG® Hydraulic Unit Maintenance

Refer to the applicable POWERIG Hydraulic Unit Instruction Manual.

#### **Tool Maintenance**

At regular intervals, depending upon use, replace all seals, wipers and back-up rings in tool. Service Kits and hoses should be kept on hand. Inspect cylinder bore, piston and piston rod, and unloading valve for scored surfaces, excessive wear or damage, and replace as necessary. Always replace seals, wipers and back-up rings whenever the tool is disassembled for any reason.

### **Nose Assembly Maintenance**

Nose assemblies with UNITIZED™ jaws must be disassembled and cleaned in mineral spirits or isopropyl alcohol. **Do not let UNITIZED** jaws (urethane) soak in solvent. <u>Do not use solvents that cause urethane to swell.</u> Dry components immediately after cleaning. Use sharp "pick" to remove particles packed in jaw grooves. Reassemble.





## MAINTENANCE (CONTINUED)

#### **General Precautions**

During disassembly and assembly, take the following precautions to avoid damaging tool or components:

- (A) A clean, well-lighted area should be available for servicing the tool. Special care must be given to prevent contamination of hydraulic systems.
- (B) Use soft materials, such as brass, aluminum or wood, to protect the tool when applying pressure. Only standard hand tools are required. Brass drifts, wood blocks, a vise with soft jaws and an arbor press will pre vent damaging tool. Standard tools available Huck are listed in this manual.
- (C) Apply continuous strong pressure, rather than sharp blows, to disassemble or assem ble a component. An arbor press provides steady pressure to press a component in or out of an assembly.
- (D) Never continue to force a component if it "hangs-up" due to misalignment. Reverse the procedure to correct misalignment and start over.

- (E) Smear SUPER O-LUBE\*, or equivalent lubricant, on seals and mating surfaces to facilitate assembly and to prevent damage to seals (SUPER O-LUBE is available, in a tube as Part Number 505476, from Huck.) \*SUPER O-LUBE is a trademark of Parker Seal
- (F) Rub SLIC-TITE TEFLON\* thread compound, or equivalent, on pipe threads, to aid assem bly and sealing.



CAUTION: Do not use TEFLON®\* tape on pipe threads. Pipe threads may cause tape to shred resulting in tool malfunction. (Slic-Tite is available in stick form as Huck P/N 503237.)

(G) All parts must be handled carefluly and examined for damage or wear. Always replace seals, wipers and back-up rings when tool is disassembled for any reason. Components should be disassembled and assembled in a straight line without bending, cocking, or undue force. Disassembly and assembly procedures outlined in this manual should be followed.

- Slic-Tite is a registered trademark of LA-CO Industries, Inc.
- TEFLON is a registered trademark of DuPont Corp.



## **TROUBLESHOOTING**

Always check out simplest possible cause of malfunction first. For example, switch turned off or power cord not connected. Then proceed logically, eliminating each possible cause until the

defective circuit or part is located. Where possible, substitute known good parts for suspected bad parts. Use TROUBLESHOOTING chart as an aid in locating and correcting malfunction.

#### 1. Tool fails to operate when trigger is depressed:

- a. Inoperative POWERIG® Hydraulic Unit. See applicable instruction manual.
- b. Loose or disconnected control cord.
- c. Damaged trigger assembly.
- d. Loose or faulty hydraulic hose couplings.
- e. Unloading valve not installed in tool.

#### 2. Tool operates in reverse:

a. Reversed hydraulic hose connections between hydraulic unit and tool.

#### 3. Tool leaks hydraulic fluid:

a. Depending on where leak occurs, defective or worn O-rings, or loose hydraulic hose connection at tool.

#### 4. Hydraulic couplers leak fluid:

a. Damaged or worn O-ring in coupler body. See Figure 4.

#### 5. Hydraulic fluid overheats:

- a. Hydraulic unit not operating properly. See applicable POWERIG Hydraulic Unit Instruction Manual.
- b. Unloading valve installed backwards.

#### 6. Tool operates erratically and fails to install fastener properly:

- a. Low or erratic hydraulic pressure supply air in system.
   See applicable POWERIG Instruction Manual.
- b. Damaged or excessively worn piston O-ring in tool.
- c. Unloading valve installed backwards.
- d. Excessive wear or scoring of sliding surfaces of tool parts.
- e. Excessive wear of unloading valve.



## TROUBLESHOOTING (CONTINUED)

#### 7. Pull grooves on fastener pintail stripped during pull stroke:

- a. Operator not sliding jaws completely onto fastener pintail.
- b. Incorrect fastener length.
- c. Worn or damaged jaw segments.
- d. Metal particles accumulated in pull grooves of jaw segments.
- e. Excessive sheet gap.
- f. Nose assembly not properly attached see NOSE ASSEMBLY DATA SHEET

#### 8. Collar of HUCKBOLT® Fastener not completely swaged:

- a. Improper tool operation. See 6.
- b. Scored anvil in nose assembly.

#### 9. Shear collar on Huck blind fastener not properly installed:

- a. Improper tool operation. See 6.
- b. Worn or damaged driving anvil in nose assembly.

#### 10. Tool "hangs-up" on swaged collar of HUCKBOLT Fastener:

- a. Improper tool operation. See 6.
- b. RETURN pressure too low.
- Nose assembly not properly attached see NOSE DATA SHEET.

#### 11. Pintail of fastener fails to break:

- a. Improper tool operation. See 6.
- b. Pull grooves on fastener stripped. See 7.
- c. Worn piston and/or unloading valve.
- d. Hydraulic pressure too low.
- e. Damaged O-ring on piston.

#### 12. Operator cannot slide nose assembly (completely) onto fastener:

a. Broken pintails jammed in tool. Install pintail tube if broken pintails will pass through.





## **DISASSEMBLY**

Refer to MAINTENANCE: General Precautions and illustrations.

The following procedure is for complete disassembly - - disassemble only sub-assemblies necessary to check and replace damaged seals, wipers, back-up rings and components. Always replace seals, wiper, Orings and back-up rings of disassembled sub-assemblies- - see CAUTION at beginning of ASSEMBLY.



WARNING: Be sure electric control cord is disconnected from POWERIG® Hydraulic Unit before disconnecting tool's hoses from hydraulic unit. ALWAYS disconnect connections in this order to prevent possible severe personal injury.

- Disconnect electrical connector. Uncouple tool hydraulic hoses.
- 2. Remove tool's retaining nut and nose assembly anvil. Unscrew collet from tool's piston rod.
- 3. Unscrew coupling nipple and coupling body. Drain hydraulic hoses into container. Discard fluid.
- 4. Push rearward on piston until remaining hydraulic fluid is drained into container. Discard fluid.
- 5. NOTE: Do not remove hydraulic hoses from tool unless replacing hoses. If necessary to remove hoses, uncover hose fittings by sliding plastic shrouds back.
- 6. 2580: Loosen strain relief grommet. Loosen set screw and carefully pry switch out with a small screwdriver. Loosen two wires at rear of switch. Remove switch

from cord. Pull cord out. Remove grommet. Disassemble electrical connector to replace connector, or to rewire it.

A2580: Unscrew air trigger assembly. Loosen air fitting. Pull out hose. Loosen air quick disconnect and remove.

- 7. Remove pintail deflector, 123144,- twist and pull in the same motion.
- 8. Remove socket screw from rear gland and barbed retainer.
- 9. Insert two 5/16 pins in opposite holes in rear of barbed retainer. Using bar placed between pins, unscrew retainer.
- 10. Remove dump valve from open cylinder.
- 11.See Fig. 5- place Spacer, 123112-1, over threaded end of piston. Screw Piston Assembly Tool onto piston. Press or drive piston, front gland and rear gland out of cylinder - - place hose ends in container to catch oil that is forced out by piston.
- 12.Use a small diameter dull pointed rod to remove all O-rings and seals - - clean parts and examine for wear and other defects.



## **ASSEMBLY**

Refer to appropriate illustrations and *MAINTENANCE:* General Precautions - - clean out O-ring grooves and reinstall perishable parts - - see below.



CAUTION: See special instructions in step 5. below for replacing seals. Use Service Kit - - always replace seals, wipers, O-rings and back-up rings of disassembled subassemblies.

- Install GLYD RING assembly on piston as follows: Place the special O-ring in groove. Roll glyd ring's diameter to a diameter smaller than piston before placing glyd ring on top of O-ring - coat glyd ring with suitable lubricant to insure that ring stays in place during piston installation.
- 2. Taking care not to pinch inner ring, press POLY-SEAL into front gland housing. Install O-ring and back-up ring on front gland assembly.
- 3. See Fig. 6. Screw Assembly Tool, 123111-1, onto piston.
- 4. CAUTION: Lubricate POLYSEAL's inside diameter.

NOTE: To keep POLYSEAL in front gland, push front wiper housing into front gland. Hold housing against POLYSEAL while pressing front gland/POLY-SEAL onto piston.

5. CAUTION: Be sure that seal does not hang up on edge of Piston chamfer.

See NOTE above - - press with suitable pressing drift against back of piston. While holding wiper housing in place, guide POLY-SEAL onto piston.

6. Press wiper into groove on wiper housing.

**NOTE:** Thread retaining nut onto cylinder to act as stand-off.

- 7. Lubricate piston's outer seal and POLY SEAL.
- See Fig. 6 - install GLYD RING Insertion Tool, 121694-2580 into cylinder to prevent damage to GLYD RING Assembly.
- 9. Carefluly drive, or press, piston into cylinder.

- 10. Remove Tools, 121694-2580 and 123111-1. Install relief valve into piston with four flats toward *REAR* of tool.
- 11. *Install following in rear gland:* O-ring and back-up ring; POLY-SEAL, spacer and retaining ring; press assembled gland into cylinder; press wiper into groove in rear gland.
- 12. Align recess in rear gland with groove in cylinder. Install locking disc.
- 13. Screw barbed retainer into cylinder until it bottoms out. Back retainer out to first visible threaded hole in rear gland. Install and tighten locking screw to 35 +/-3 in. lbs. dash numbers correspond to the O-ring dash numbers.
- 14. CAUTION: Do not use TEFLON®\* tape on pipe threads. Pipe threads may cause tape to shred resulting in tool malfunction. (Slic-Tite is available in stick form as Huck P/N 503237.)

If hydraulic hoses have been removed, thread hoses into handle. Slide shrouds over fittings.



## ASSEMBLY (CONTINUED)

15. 2580: Assemble electrical cord to connector. Screw strain relief grommet into handle. Push cord through grommet. Attach cord to trigger switch. Press switch into handle and tighten set screw against switch. Pull excess cord down through handle and strain relief grommet. Tighten grommet.

**A2580:** Thread hose fitting into handle. Attach quick disconnect to airline. Attach air line to to handle's hose fitting. Screw air trig ger assembly into handle's trigger fitting and tighten set screw against fitting.

16. See <u>CAUTION</u> in 14. - - screw coupling nipple onto PULL pressure hose (from "P' port of tool). Screw coupling body onto RETURN pressure hose. 17. Before attaching nose assembly and using tool, read entire PREPARATION FOR USE section. Hold 3/8" hex wrench in back of tool when tightening collet. Use pintail tube if necessary.



CAUTION: Anvils with ears must have stop installed in position as shown to prevent damage to ears - - slide stop over anvil before installing retaining nut.

18. See <u>WARNING</u> in DISASSEMBLY and reverse the given procedure i. e. <u>CONNECT</u> <u>HOSES FIRST</u>. and then, connect electrical control cord.

## **Subassembly Part Numbers and Notes**

#### Refer to Illustrations

A matching 12 ft. Hose Kit, 122854, is available.

2 123139 - Front Grand Assembly includes:

123136 - Piston Assembly includes:

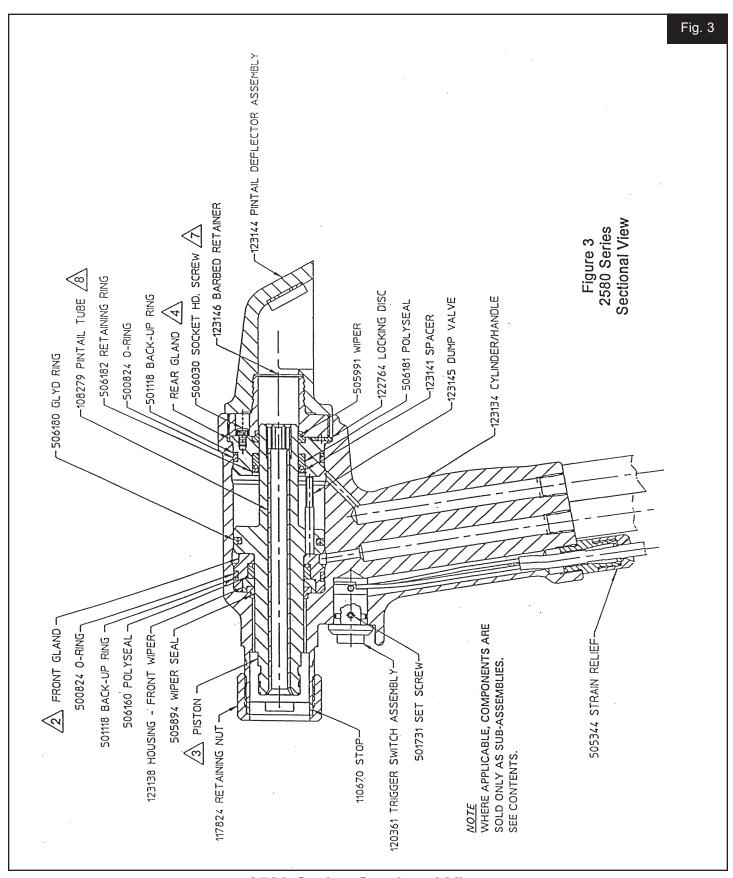
123142 - Rear Gland Assembly includes:

123338 - Trigger Cord Assembly includes:

6 CAUTION: Install cups of POLY-SEALS and wipers as shown.

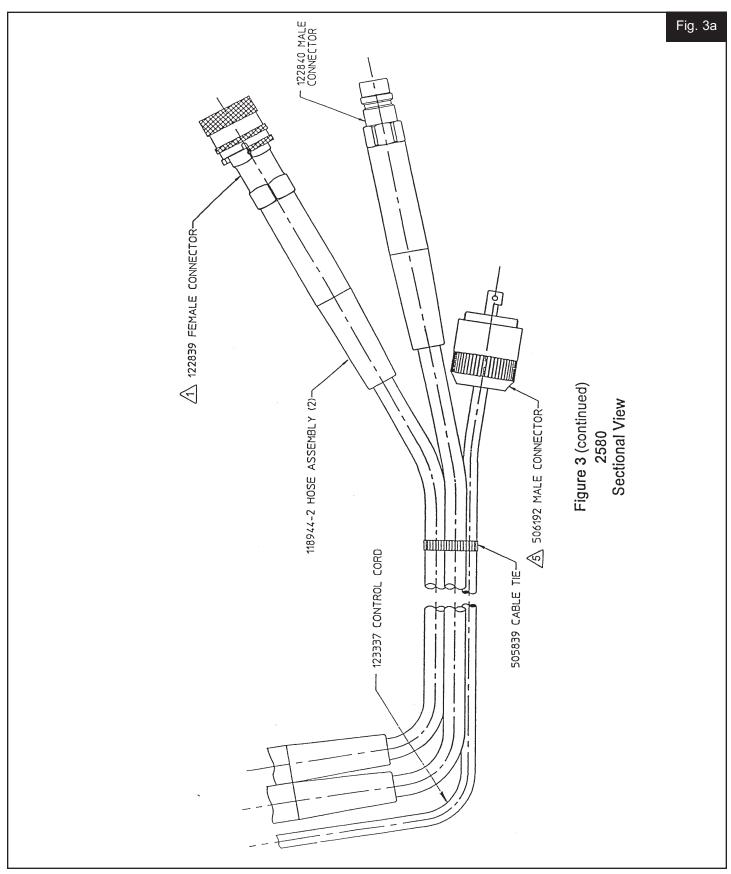
A Torque screw, 506030, to 20+/-3 in. lbs.

8 Blind fasteners require pintail tube, 108279.

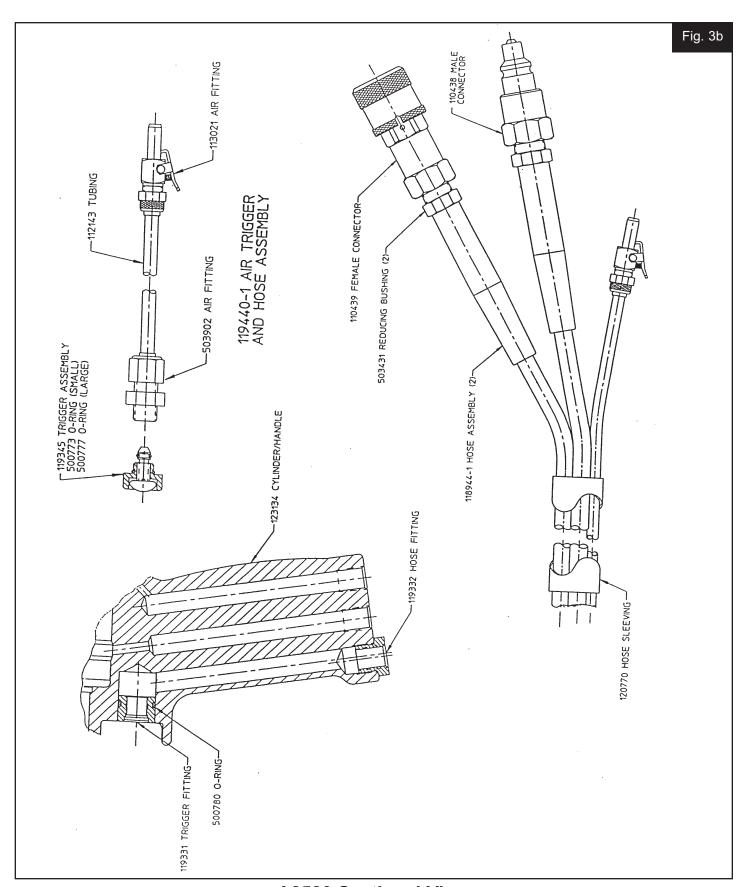


2580 Series Sectional View



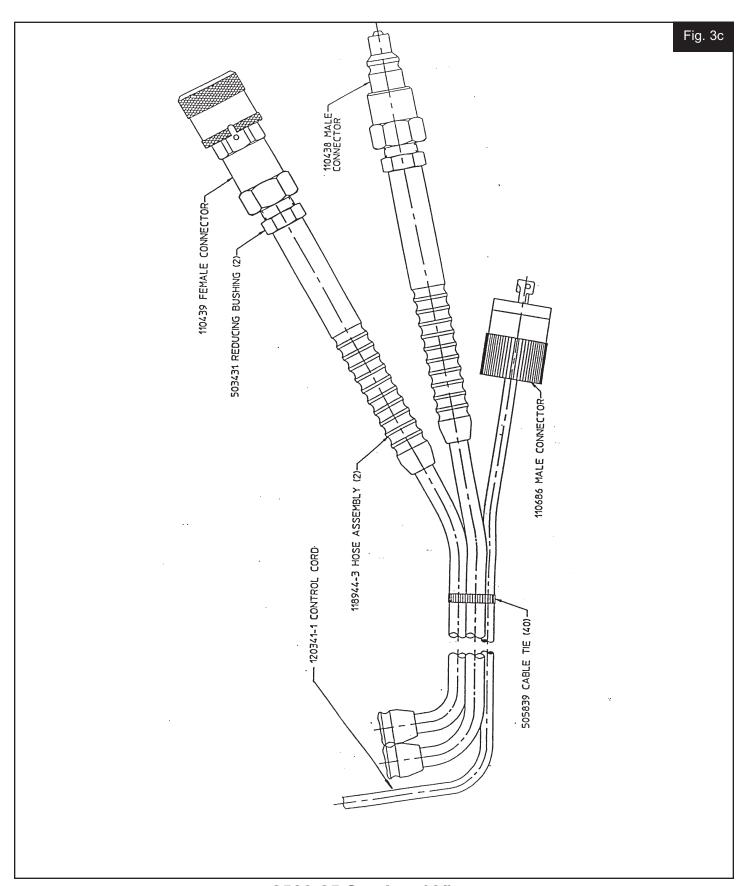


2580 Sectional View



**A2580 Sectional View** 

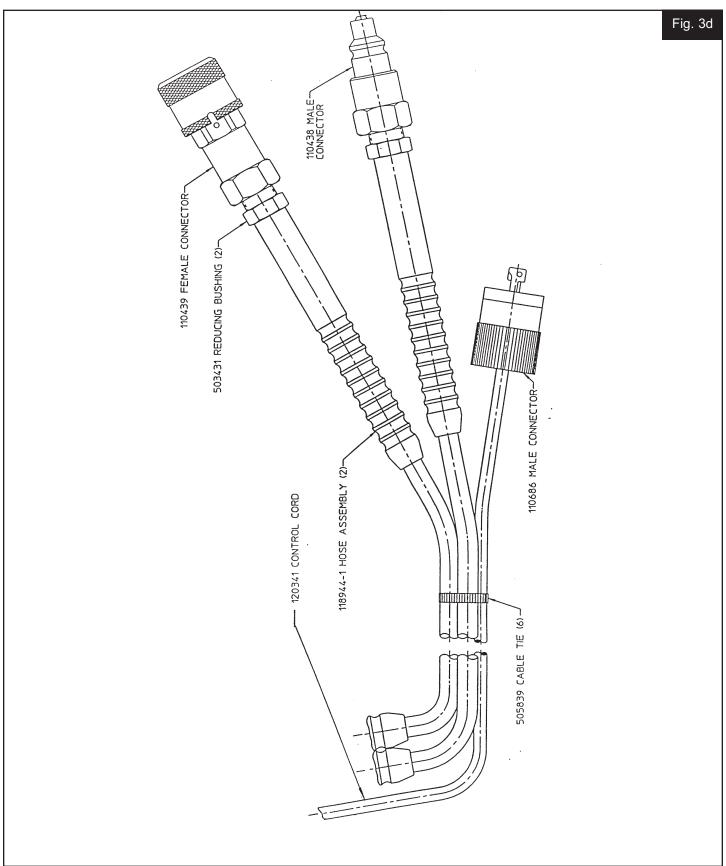




2580-25 Sectional View







2580-12 Sectional View



## STICKER LOCATIONS

The 2580 series tools come labeled with **Sticker part number 590424-7400**, which contains safety and pressure settings information. It is necessary that this sticker remain on the tool and is easily read. If sticker becomes damaged or worn, or if it have been removed from the tool, or **when replacing Cylinder**, **this sticker must be ordered and placed in the location shown**. Sticker locations and part numbers may be found in Figure3 through 3j.

## **SPARE PARTS SERVICE KIT**

The quantity of spare parts that should be kept on hand varies with the application and number of tools in service. Spare service kits, 2580KIT, containing perishable parts such as seals, back-up rings, etc., should be kept on hand at all times.

Table 2 - Service Kit, 2580KIT

Part No.	<u>Description</u>	<u>Quan.</u>
500824	O-RING	2
501118	BACK-UP RING	2
500780	O-RING	1
505991	WIPER	1
505894	WIPER	1
506160	POLY-SEAL	1
506181	POLY-SEAL	1
506180	GLYD-RING	1
* 500777	O-RING	1
* 500773	O-RING	1
* 504438	O-RING	1
* 501102	BACK-UP RING	1
8-2580	ASSEMBLY DWG. 2580 H.I.T.	1
* 8-A2580	ASSEMBLY DWG. A2580 H.I.T.	1

Extra part numbers shown with asterisks are for A2580.



## Conversion Kit, 123020

Conversion Kit, 123020, is supplied with each tool. Changing to kit's older, heavier type hoses will then accommodate the following extension hose kits:

110838 12ft. 110839 26ft. 110840 38ft. 110841 52ft.

See appropriate section of DISASSEMBLY and ASSEMBLY

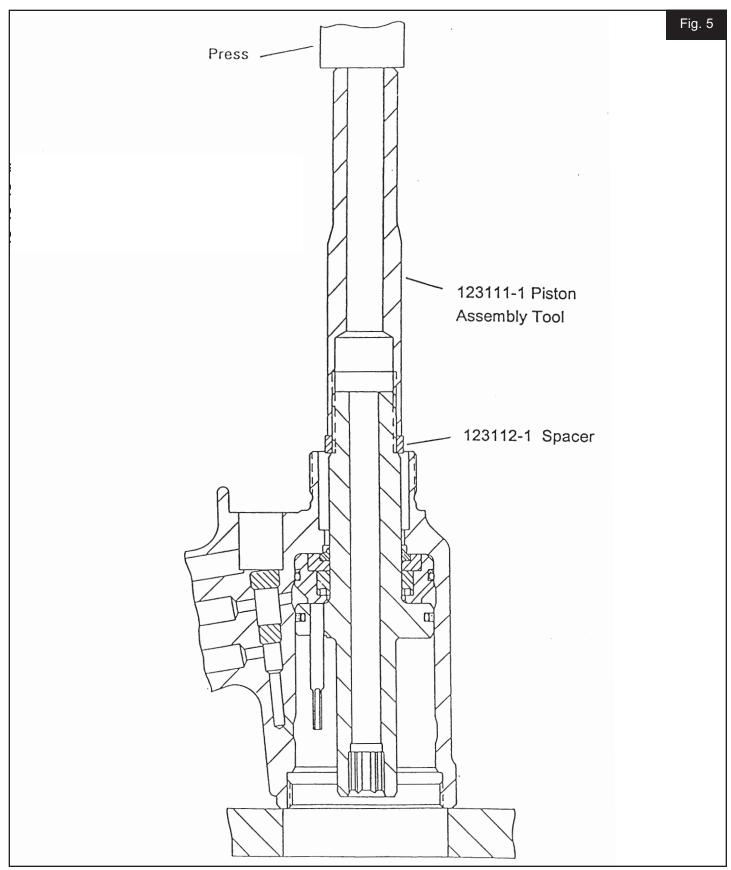


CAUTION: Do not use TEFLON®\* tape on pipe threads. Pipe threads may cause tape to shred resulting in tool malfunction. (Slic-Tite is available in stick form as Huck P/N 503237.)

See MAINTENANCE: General Precautions.

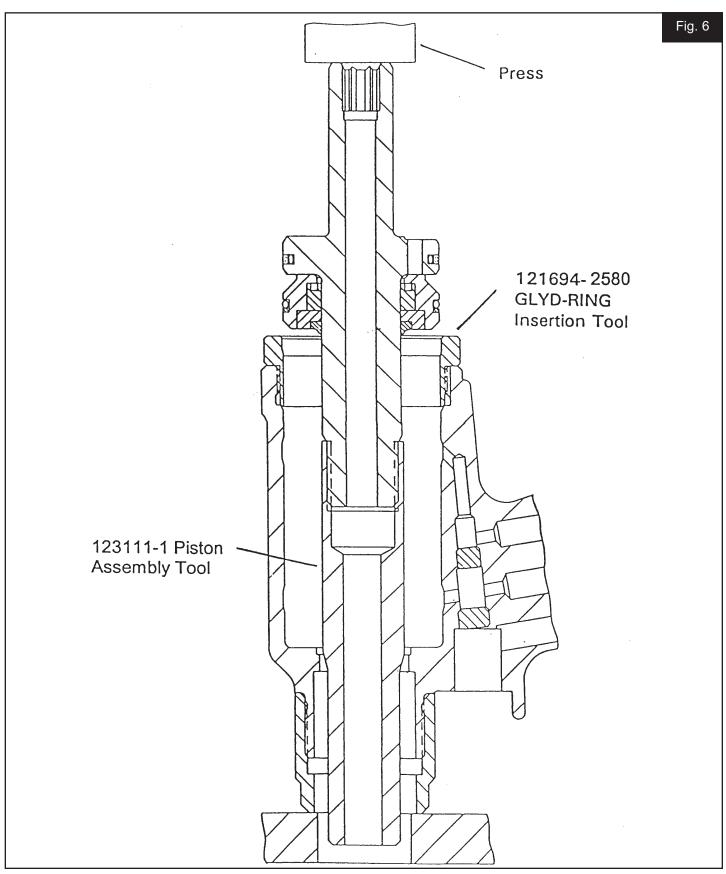
123020 - Conversion Kit Includes: 110439 - Female Connector (1) 110438 - Male Connector (1) 503431 - Reducing Bushing (2) 110686 - Electric Male Connector (1) 505839 - Cable Tie (1)





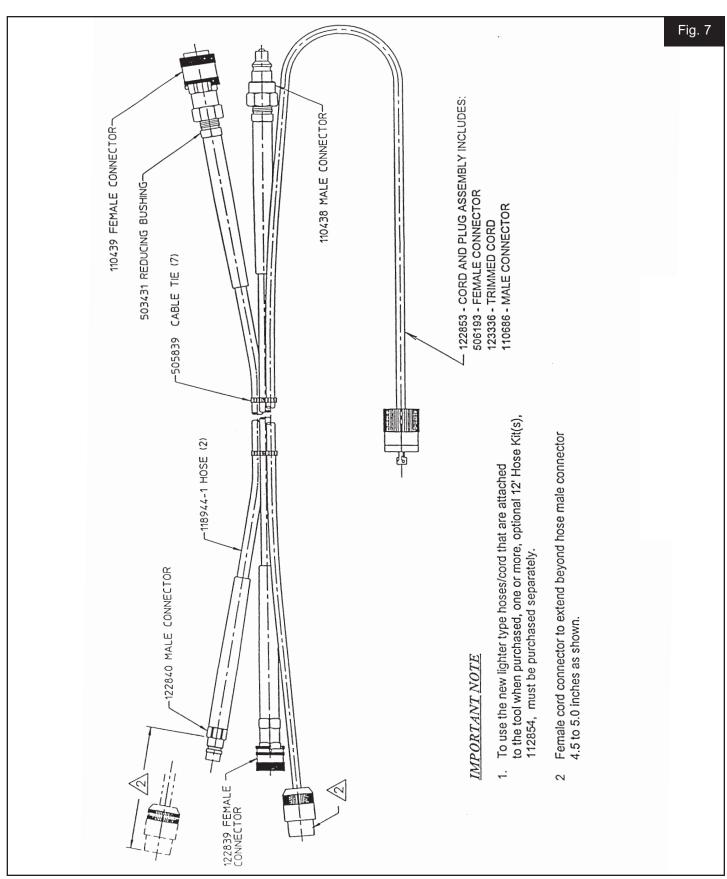
**Removing Piston** 





**Installing Piston** 





Optional Hose Kit, 122854



## Air and Hydraulic Conversion Kit, 125149

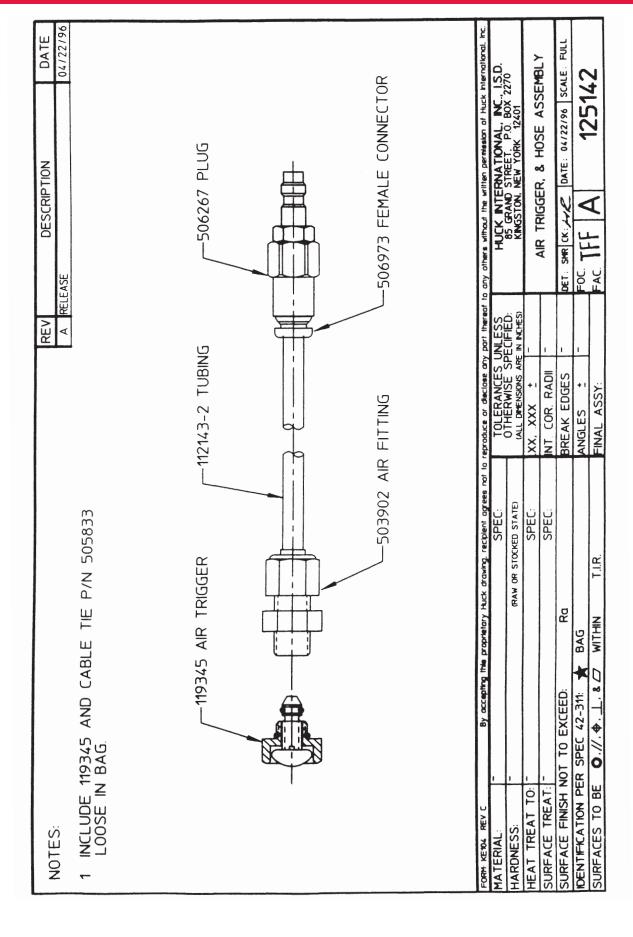
Converts existing tool into the -2 version with 2' hoses.

Part No.	<u>Description</u>	Quan.
118944-2	Light Weight Hi-pressure Hose	2
122839	Female Q. D. Hyd. Fitting	1
122840	Male Q. D. Hyd. Fitting	1
112143-2	Air Hose	1
506973	Female Straight Connector	1
506267	Male Q. D. Air Fitting	1

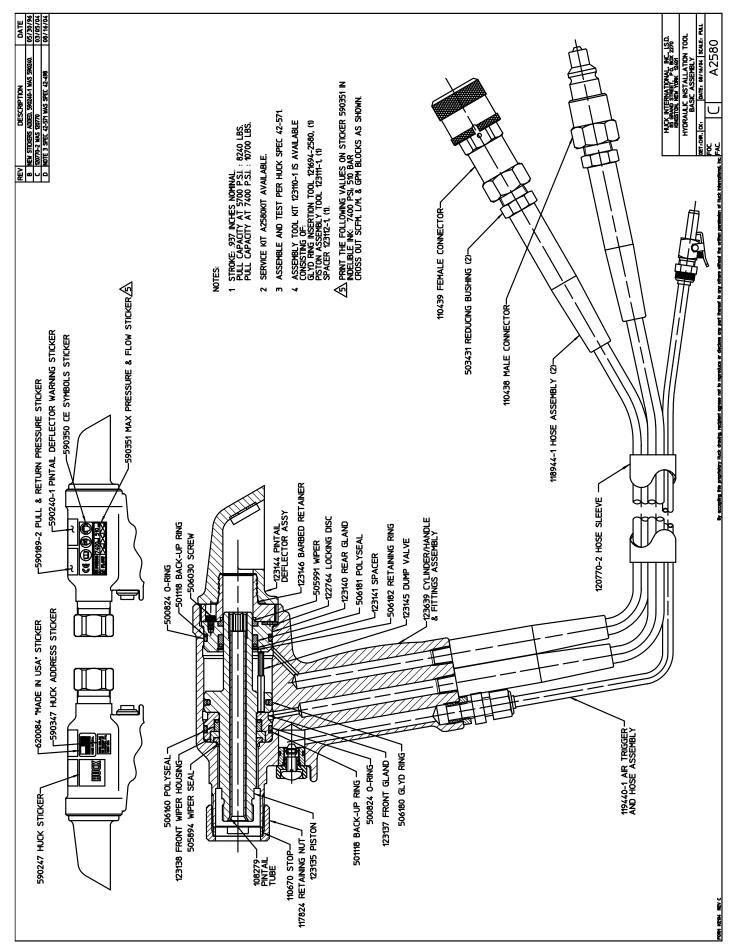
## Stroke Limiter Kit, 125143

Changes stroke of any 2580 tool to .625 in.

Part No.	<u>Description</u>	<u>Quan.</u>
125143	Stroke Limiter	1
123145-1	Dump Valve	1

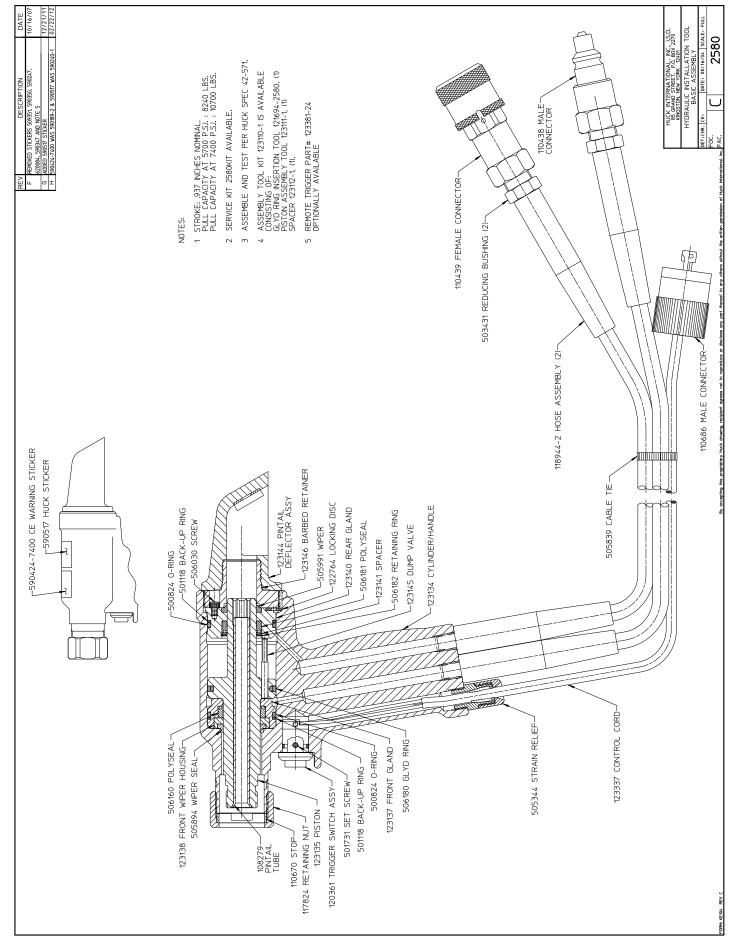






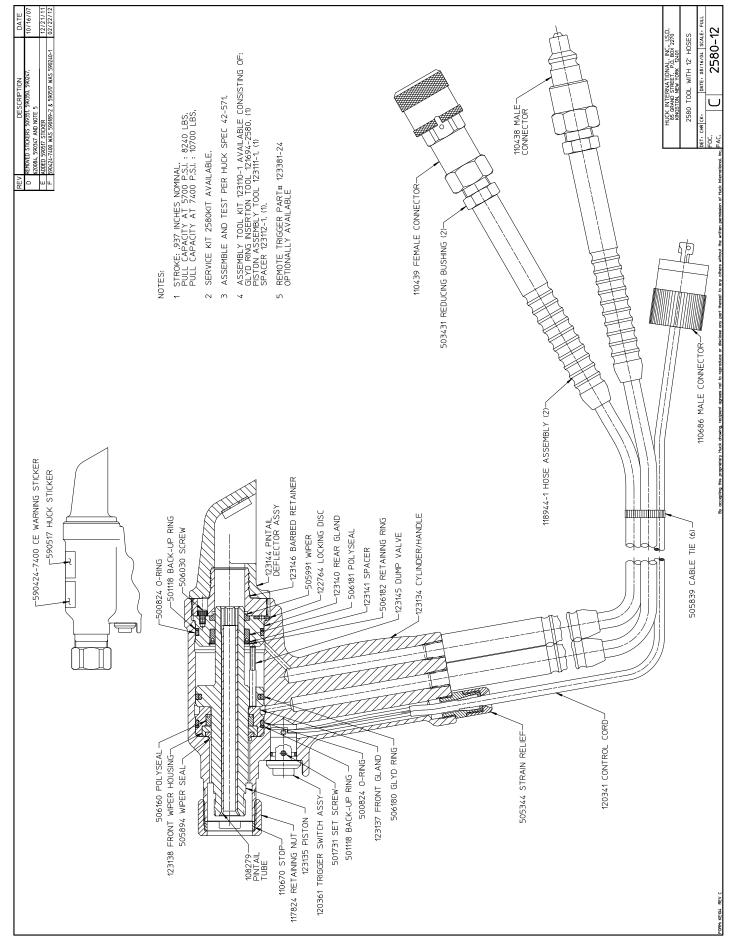






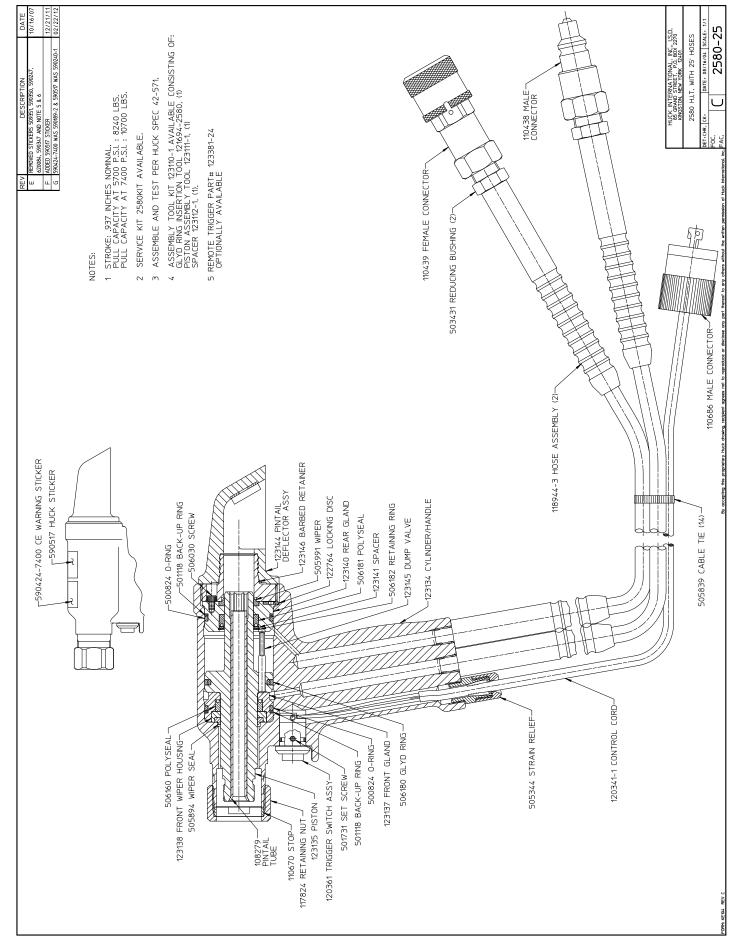




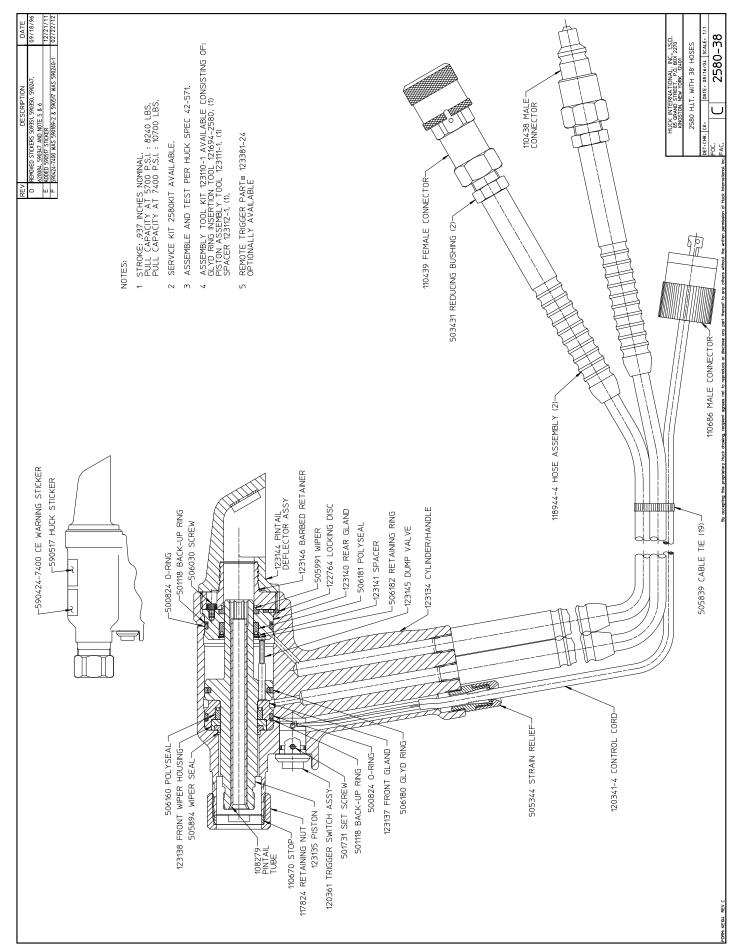
















## LIMITED WARRANTIES

#### **TOOLING WARRANTY:**

Huck warrants that tooling and other items (excluding fasteners, and hereinafter referred as "other items") manufactured by Huck shall be free from defects in workmanship and materials for a period of ninety (90) days from the date of original purchase.

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With regard to non-standard products or custom manufactured products to customer's specifications, Huck warrants for a period of ninety (90) days from the date of purchase that such products shall meet Buyer's specifications, be free of defects in workmanship and materials. Such warranty shall not be effective with respect to non-standard or custom products manufactured using buyer-supplied molds, material, tooling and fixtures that are not in good condition or repair and suitable for their intended purpose.

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Huck International, Inc. reserves the right to make changes in specifications and design and to discontinue models without notice.

Huck Installation Equipment should be serviced by trained service technicians only.

Always give the Serial Number of the equipment when corresponding or ordering service parts.

Complete repair facilities are maintained by Huck International, Inc. Please contact one of the offices listed below.

#### Eastern

One Corporate Drive Kingston, New York 12401-0250 Telephone (845) 331-7300 FAX (845) 334-7333

#### Outside USA and Canada

Contact your nearest Huck International Office, see back cover.

In addition to the above repair facilities, there are Authorized Tool Service Centers (ATSC's) located throughout the United States. These service centers offer repair services, spare parts, Service Parts Kits, Service Tools Kits and Nose Assemblies. Please contact your Huck Representative or the nearest Huck office listed on the back cover for the ATSC in your area.



251 Cree Crescent, Winnipeg, MB Canada R3J 3X4 Tel: 204 837 8361 • 1 800 563 1293 Fax: 204 837 3520 • 1 800 974 1494









