

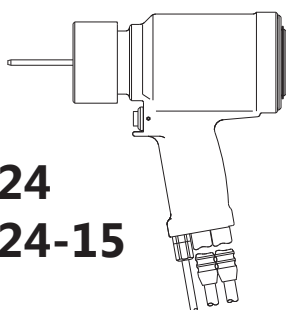


ARCONIC

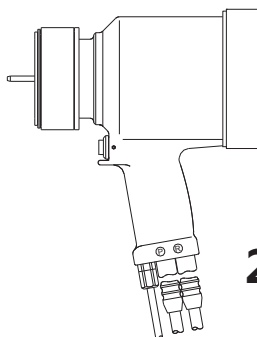
Innovation, engineered.

Instruction Manual

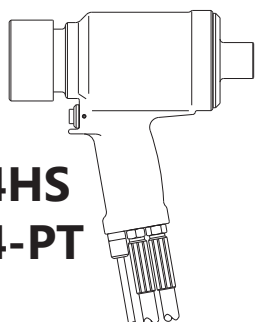
2624 and **2630** series Hydraulic Installation Tools



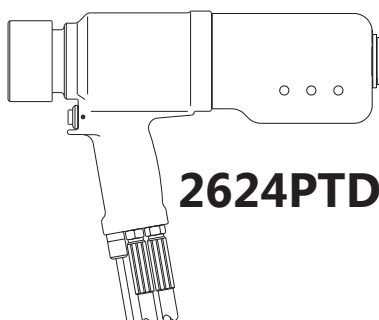
2624
2624-15



2630
2630RR



2624HS
2624-PT



2624PTD

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**ARCONIC**

EC Declaration of Conformity

Manufacturer:

Huck International, LLC, Industrial Products Group, 1 Corporate Drive, Kingston, NY, 12401, USA

Description of Machinery:

Models 2600, 2620, 2624, 2630 family of hydraulic installation tools and specials based on their design (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 (ISO 11148-1:2011)

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: Robert B. Wilcox

Position: Engineering Manager

Location: Huck International, LLC d/b/a Arconic Fastening Systems and Rings
Kingston, New York, USA

Date: 01/11/2016 (November 1, 2016)



Declared dual number noise emission values in accordance with ISO 4871

A weighted sound power level, LWA: **89** dB (reference 1 pW) Uncertainty, KWA: 3 dB

A weighted emission sound pressure level at the work station, LpA: **78** 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 3744. 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 accordance with EN 12096

Measured Vibrations emission value, a:

.40 m/s²

Uncertainty, K:

.02 m/s²


Values measured and determined according to ISO 28662-1, ISO 5349-2, and EN 1033


Test data to support the above information is on file at:
Arconic Fastening Systems and Rings, Kingston Operations, Kingston, NY, USA.





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.

Notes: are reminders of required procedures.

Bold, Italic type, and underline: emphasize a specific instruction.

 **WARNINGS: Must be understood to avoid severe personal injury.**

 **CAUTIONS: Show conditions that will damage equipment or structure.**

I. GENERAL SAFETY RULES:

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. For multiple hazards, read and understand the safety instructions before installing, operating, repairing, maintaining, changing accessories on, or working near the assembly power tool. Failure to do so can result in serious bodily injury.
4. Only qualified and trained operators should install, adjust or use the assembly power tool.
5. Do not modify this assembly power tool. This can reduce effectiveness of safety measures and increase operator risk.
6. Do not discard safety instructions; give them to the operator.
7. Do not use assembly power tool if it has been damaged.
8. Tools shall be inspected periodically to verify all ratings and markings required, and listed in the manual, are legibly marked on the tool. The employer/operator shall contact the manufacturer to obtain replacement marking labels when necessary. Refer to assembly drawing and parts list for replacement.
9. Tool is only to be used as stated in this manual. Any other use is prohibited.
10. Read MSDS Specifications before servicing the tool. MSDS specifications are available from the product manufacturer or your Huck representative.
11. Only genuine Huck parts shall be used for replacements or spares. Use of any other parts can result in tooling damage or personal injury.
12. Never remove any safety guards or pintail deflectors.
13. Never install a fastener in free air. Personal injury from fastener ejecting may occur.
14. Where applicable, always clear spent pintail out of nose

assembly before installing the next fastener.

15. 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.
16. 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 preventing an accident which may cause severe personal injury.
17. Never place hands between nose assembly and work piece. Keep hands clear from front of tool.
18. Tools with ejector rods should never be cycled with out nose assembly installed.
19. When two piece lock bolts are being used always make sure the collar orientation is correct. See fastener data sheet for correct positioning.

II. PROJECTILE HAZARDS:

1. Risk of whipping compressed air hose if tool is pneudraulic or pneumatic.
2. Disconnect the assembly power tool from energy source when changing inserted tools or accessories.
3. Be aware that failure of the workpiece, accessories, or the inserted tool itself can generate high velocity projectiles.
4. Always wear impact resistant eye protection during tool operation. The grade of protection required should be assessed for each use.
5. The risk of others should also be assessed at this time.
6. Ensure that the workpiece is securely fixed.
7. Check that the means of protection from ejection of fastener or pintail is in place and operative.
8. There is possibility of forcible ejection of pintails or spent mandrels from front of tool.

III. OPERATING HAZARDS:

1. Use of tool can expose the operator's hands to hazards including: crushing, impacts, cuts, abrasions and heat. Wear suitable gloves to protect hands.
2. Operators and maintenance personnel shall be physically able to handle the bulk, weight and power of the tool.
3. Hold the tool correctly and be ready to counteract normal or sudden movements with both hands available.
4. Maintain a balanced body position and secure footing.
5. Release trigger or stop start device in case of interruption of energy supply.
6. Use only fluids and lubricants recommended by the manufacturer.
7. Avoid unsuitable postures, as it is likely for these not to allow counteracting of normal or unexpected tool movement.
8. If the assembly power tool is fixed to a suspension device, make sure that fixation is secure.
9. Beware of the risk of crushing or pinching if nose equipment is not fitted.

Continued on next page...



Safety Instructions (continued)

IV. REPETITIVE MOTION HAZARDS:

1. When using assembly power tool, the operator can experience discomfort in the hands, arms, shoulders, neck or other parts of the body.
2. When using tool, the operator should adopt a comfortable posture while maintaining a secure footing and avoid awkward or off balanced postures.
3. The operator should change posture during extended tasks to help avoid discomfort and fatigue.
4. If the operator experiences symptoms such as persistent or recurring discomfort, pain, throbbing, aching, tingling, numbness, burning sensations or stiffness, these warnings should not be ignored. The operator should tell the employer and consult a qualified health professional.

V. ACCESSORIES HAZARDS:

1. Disconnect tool from energy supply before changing inserted tool or accessory.
2. Use only sizes and types of accessories and consumables that are recommended. Do not use other types or sizes of accessories or consumables.

VI. WORKPLACE HAZARDS:

1. Be aware of slippery surfaces caused by use of the tool and of trip hazards caused by the air line or hydraulic hose.
2. Proceed with caution while in unfamiliar surroundings; there could be hidden hazards such as electricity or other utility lines.
3. The assembly power tool is not intended for use in potentially explosive environments.
4. Tool is not insulated against contact with electrical power.
5. Ensure there are no electrical cables, gas pipes, etc., which can cause a hazard if damaged by use of the tool.

VII. NOISE HAZARDS:

1. Exposure to high noise levels can cause permanent, disabling hearing loss and other problems such as tinnitus, therefore risk assessment and the implementation of proper controls is essential.
2. Appropriate controls to reduce the risk may include actions such as damping materials to prevent workpiece from 'ringing'.
3. Use hearing protection in accordance with employer's

instructions and as required by occupational health and safety regulations.

4. Operate and maintain tool as recommended in the instruction handbook to prevent an unnecessary increase in the noise level.
5. Select, maintain and replace the consumable / inserted tool as recommended to prevent an unnecessary increase in noise.
6. If the power tool has a silencer, always ensure that it is in place and in good working order when the tool is being operated.

VIII. VIBRATION HAZARDS:

1. Exposure to vibration can cause disabling damage to the nerves and blood supply to the hands and arms.
2. Wear warm clothing when working in cold conditions and keep hands warm and dry.
3. If numbness, tingling, pain or whitening of the skin in the fingers or hands, stop using the tool, tell your employer and consult a physician.
4. Support the weight of the tool in a stand, tensioner or balancer in order to have a lighter grip on the tool.

X. HYDRAULIC TOOL SAFETY INSTRUCTIONS:



WARNINGS:

Do not exceed maximum pull or return settings on tool.

Be sure all hose connections are tight. All tool hoses must be connected.

1. Carry out a daily check for damaged or worn hoses or hydraulic connections and replace if necessary.
2. Wipe all couplers clean before connecting. Failure to do so can result in damage to the quick couplers and cause overheating.
3. Ensure that couplings are clean and correctly engaged before operation.
4. Use only clean oil and filling equipment.
5. Power units require a free flow of air for cooling purposes and should therefore be positioned in a well ventilated area free from hazardous fumes.
6. Do not inspect or clean the tool while the hydraulic power source is connected. Accidental engagement of the tool can cause serious injury.
7. Be sure all hose connections are tight.
8. Wipe all couplers clean before connecting. Failure to do so can result in damage to the quick couplers and cause overheating.

Where the following trade names are used in this manual, please note:

DEXRON is a registered trademark of General Motors Corporation.

Loctite is a registered trademark of Henkel Corporation, U.S.A.

LUBRIPLATE is a registered trademark of Fiske Brothers Refining Co.

MERCON is a registered trademark of Ford Motor Corp.

Never-Seez is a registered trademark of Bostik, Inc.

Quintolubric is a registered trademark of Quaker Chemical Corp.

Slic-tite is a registered trademark of LA-CO Industries, Inc.

Spirolox is a registered trademark of Smalley Steel Ring Company

Teflon is a registered trademark of E. I. du Pont de Nemours and Company.

Threadmate is a registered trademark of Parker Intangibles LLC.

TRUARC is a trademark of TRUARC Co. LLC.

Vibra-Tite is a registered trademark of ND Industries, Inc. USA.



Specifications

POWER SOURCE:

Huck Powerig® Hydraulic Unit

HOSE KITS:

Use only genuine HUCK Hose Kits rated @ 10,000 psi (689.5 BAR) working pressure.

MAX OPERATING TEMP:

125° F (51.7° C)

MAX FLOW RATE:

2 gpm (7.6 l/m)

MAX PULL PRESSURE:

7,400 psi (510 BAR)

MAX RETURN PRESSURE:

- 2624 series: 3,200 psi (221 BAR)
- 2630 series: 2,600 psi (180 BAR)

PULL CAPACITY:

- 2624 series: 30,356 lbs @ 6,500 psi (135.03 kN @ 448 BAR)
- 2630 series: 48,614 lbs @ 6,500 psi (216.2 @ 448 BAR)

STROKE:

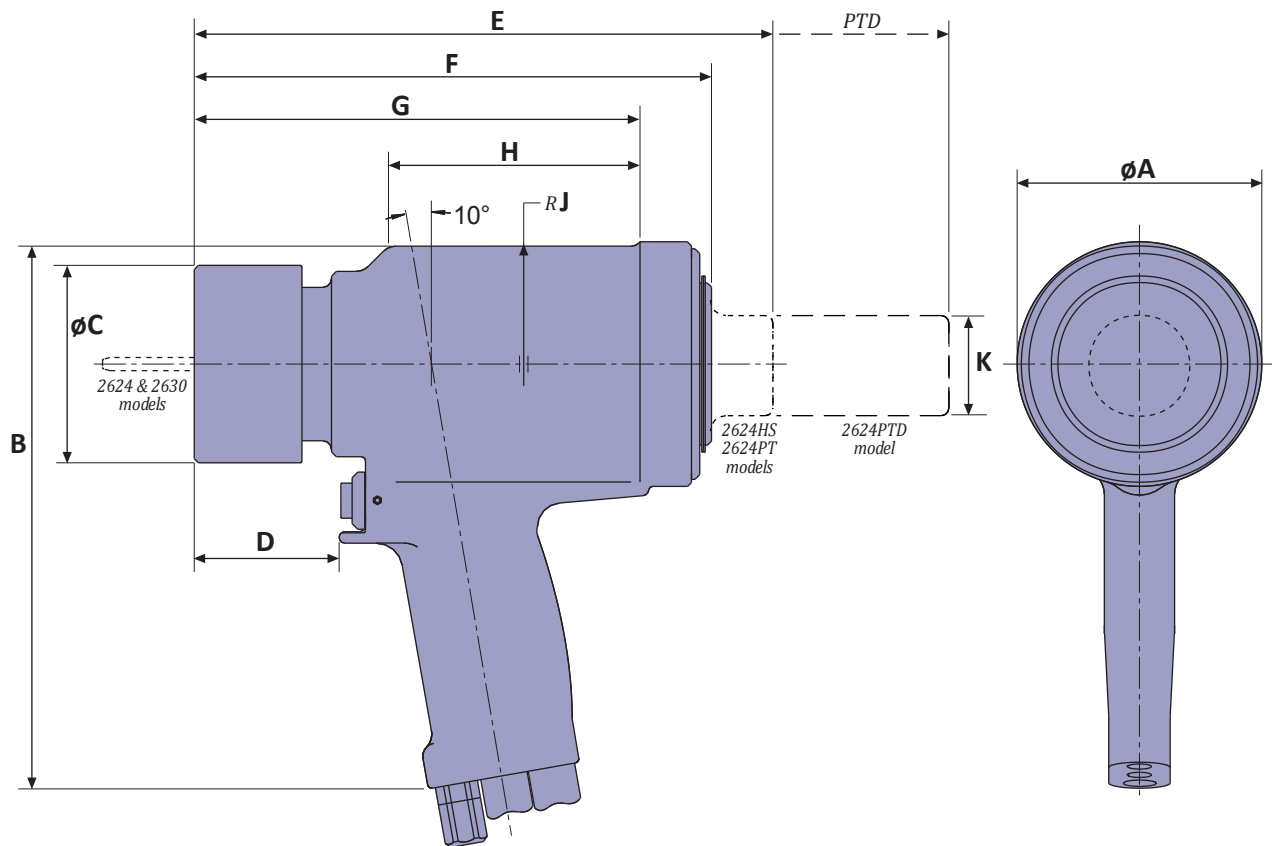
- 2624 series: 1.687 in. (4.28 cm)
- 2630 series: 1.906 in. (4.84 cm)

WEIGHT:

- 2624, 2624-15: 17.5 lbs (7.94 kg)
- 2624HS, 2624-PT, 2624PTD: 24.0 lbs (10.9 kg)
- 2630, 2630RR: 22.43 lbs (10.17 kg)

HYDRAULIC FLUID:

Hydraulic fluid shall meet DEXRON® III, DEXRON VI, MERCON®, Allison C-4 or equivalent Automatic Transmission Fluid (ATF) specifications. Fire-resistant fluid may be used if it is an ester-based fluid such as Quintolubric® HFD or equivalent. Water-based fluid shall NOT be used as serious damage to equipment will occur.



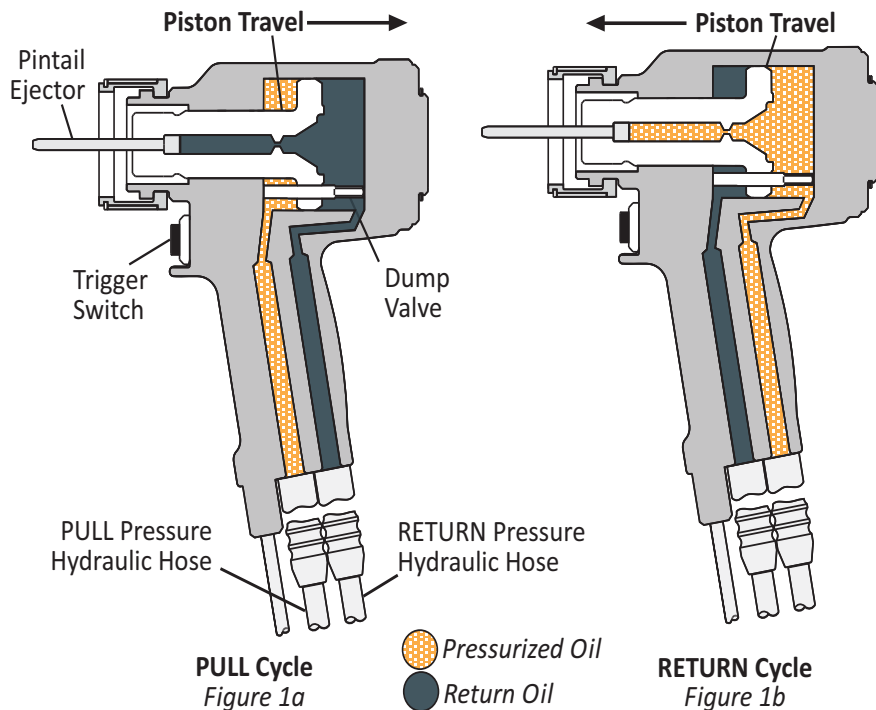
TOOL	A inch (cm)	B inch (cm)	C inch (cm)	D inch (cm)	E inch (cm)	F inch (cm)	G inch (cm)	H inch (cm)	J inch (cm)	K inch (cm)
2624 2624-15	3.4 (8.8)	7.7 (19.6)	2.8 (7.1)	2.0 (5.2)	n/a	7.3 (18.7)	6.3 (16.1)	3.5 (9.1)	1.7 (4.3)	n/a
2624HS 2624-PT	3.4 (8.8)	7.7 (19.6)	2.8 (7.1)	2.0 (5.2)	8.5 (21.6)	7.3 (18.6)	6.3 (16.1)	3.5 (9.1)	1.7 (4.3)	1.2 (3.2)
2624PTD	3.4 (8.8)	7.7 (19.6)	2.8 (7.1)	2.0 (5.2)	11.0 (28.1)	7.3 (18.6)	6.3 (16.1)	3.5 (9.1)	1.7 (4.3)	1.2 (3.2)
2630 2630RR	4.9 (12.4)	8.6 (21.9)	3.6 (9.0)	2.2 (5.6)	n/a	7.9 (20.1)	~ 6.4 (17.4)	3.9 (9.9)	2.1 (5.5)	n/a



Principle of Operation

Upon pressing trigger, a solenoid-operated valve in the Powerig® directs pressurized fluid through the PULL hose to the front side of the piston; fluid on the RETURN side flows back to the tank (Fig 1a). The piston and nose assembly collect and move rearward, installing the fastener. When the piston reaches the end of the PULL stroke, it uncovers flats on the rear end of the dump valve, providing a passage for fluid from the PULL side to the RETURN side of the piston, "dumping" the pressurized fluid back to the tank (Fig 1a).

Upon releasing trigger, the solenoid is de-energized and the valve directs pressurized fluid to the rear of the piston; fluid on the PULL side flows back to the tank (Fig. 1b). The piston and collet move forward, pushing the nose assembly and tool off the installed fastener. When the piston reaches the end of the RETURN stroke, pressure builds, causing the Powerig to shut off, completing the cycle.



Preparation for Use



WARNINGS:

Read entire manual before using tool.

A 30-minute training session with qualified personnel is recommended before using Huck equipment. When operating Huck equipment, always wear approved eye and hearing protection.

Huck Powerigs should be used to power Huck tools. Hydraulic power units that deliver high PULL and RETURN pressures, but which are *not equipped with relief valves*, are specifically **NOT RECOMMENDED and may be dangerous.**

Connect tool hydraulic hoses to Powerig *before* connecting tool switch-control cord to Powerig. If not connected in this order and *disconnected in the reverse order*, severe personal injury may occur.

Set PULL and RETURN pressures as specified in SPECIFICATIONS. Failure to properly set these pressures may result in serious personal injury.

Huck Pressure Gauge T-124833CE is available and should be used as indicated in its instruction manual. Ensure there is adequate clearance for the operator's hands before proceeding.



CAUTION: Keep disconnected hoses and couplers and hydraulic fluid free of foreign matter.

Contaminated fluid can cause valve failures. Apply Parker Threadmate, Loctite 567, or Slic-tite stick to male pipe threads per manufacturer's instructions.

POWER SOURCE CONNECTIONS

Use a Huck Powerig Hydraulic Unit, or equivalent, that has been suitably prepared for operation.

1. Turn OFF the Powerig and disconnect its power supply.
2. Coat the tool's hose-fitting threads with Loctite® 243™ or equivalent, and then connect the hoses to the Powerig.
3. Connect the tool's control switch cord to the Powerig.
4. Connect the Powerig to the power supply and turn it ON. Press and hold the tool trigger for 30 seconds; then press trigger a few times to cycle the tool and circulate the hydraulic fluid. Observe the action of the tool and

check for leaks. Turn OFF the Powerig.

5. Disconnect tool's control switch cord from the Powerig; disconnect the Powerig from the power supply. Select a nose assembly for the fastener to be installed and attach it to the tool.
6. Reconnect the Powerig to the power supply and the tool's switch control cord to the Powerig.
7. Check the operation of nose assembly; install fasteners in a test plate of correct thickness with proper size holes. Inspect installed fasteners.

NOTE: If fasteners do not pass inspection, see TROUBLESHOOTING to investigate possible causes.



Maintenance

Stickers on the tool must be replaced when the cylinder is replaced, or if they become worn, damaged, or unreadable. Refer to **STICKER LOCATIONS** in this manual for information on sticker locations and part numbers.



CAUTIONS:

Consult the Material Safety Data Sheet (MSDS) before servicing tool.

Keep foreign matter out of the hydraulic system. Keep separated parts away from dirty work surfaces.

Dirt and debris in hydraulic fluid causes valve failures in tool and Powerig®.

Check components drawings in this manual for correct orientation of polyseals and dump valve.

Do not use Teflon® tape on pipe threads. Tape can shred, resulting in malfunctions. Apply Parker Threadmate, Loctite 567, or Slic-tite stick to male pipe threads per manufacturer's instructions.

Always replace seals, wipers, and Back-up rings when the tool is disassembled for any reason.

See **SPECIFICATIONS** for fluid type. Dispose of fluid in accordance with local environmental regulations. Recycle steel, aluminum, and plastic parts in accordance with local lawful and safe practices.

PREVENTIVE MAINTENANCE

The operating efficiency of your tool is directly related to performance of the entire system. Therefore, a regular schedule of "preventive" maintenance of the tool, nose assembly, hydraulic hoses, trigger and control cord, and Powerig will ensure your tool's proper operation and extend its life. Also see **TROUBLESHOOTING**, parts lists, and **DISASSEMBLY** and **ASSEMBLY** procedures in this manual.

POWERIG MAINTENANCE

Maintenance instructions and repair procedures are in the appropriate Powerig Instruction Manual.

SYSTEM INSPECTION

An effective maintenance program includes scheduled inspections of the system to detect minor troubles that can be quickly and easily corrected. Huck recommends that you:

Inspect the tool and nose for external damage.

Verify that hoses, fittings, couplings, and electrical connections are secure and free of leaks.

Inspect hydraulic hoses for signs of damage. Replace if necessary.

Inspect the tool, hoses, and Powerig during operation to detect abnormal heating, leaks, or vibration.

TOOL MAINTENANCE

At regular intervals, depending on use, replace all O-rings and Back-up rings in the tool. Spare Parts Kits should be kept on hand. Inspect cylinder bore, piston, piston rod, and unloading valve for scored surfaces, excessive wear, and damage; replace as necessary.

NOSE ASSEMBLY MAINTENANCE

Daily cleaning of the nose assembly is recommended. This can usually be accomplished by dipping the nose assembly in mineral spirits, or other suitable solvent, to clean the jaws and wash away metal chips and dirt. If a more thorough cleaning or maintenance is necessary, disassemble the nose assembly. Use a sharp pointed "pick" to remove embedded particles from the pull grooves of the jaws.

Hydraulic Couplings



Assembly of NPTF Threaded Components

AIR FITTINGS

- 1) Apply TEFLON® stick to male threads which do not have pre-applied sealant per manufacturer's recommendations. (Proceed to All Fittings step 2)

HYDRAULIC FITTINGS

- 1) Apply Threadmate™ to male and female threads which do not have pre-applied sealant per manufacturer's recommendations. (Proceed to All Fittings step 2)

ALL FITTINGS:

- 2) Tighten to finger-tight condition.
- 3) Wrench tighten to 2-3 turns past finger-tight condition.
- 4) Final thread engagement can be checked (optional) by measuring the dimension from the flange of male fitting to the end of the thread before assembly and subtracting the distance under the flange after assembly.

Thread Size	Final thread engagement at full make-up
1/8-27 NPTF	.235 inch (.59 cm)
1/4-18 NPTF	.339 inch (.86 cm)
3/8-18 NPTF	.351 inch (.89 cm)



Disassembly

This procedure is for complete disassembly of the tool. Disassemble *only* those components necessary to replace damaged rings and worn or damaged components. Always use a soft-jaw vise to avoid damaging the tool.



WARNING: Disconnect the tool control cord from the POWERIG before disconnecting the hydraulic hoses from it. If not disconnected in this order, serious personal injury may occur.



CAUTION: Do not re-use seals, wipers, or rings; irreparable tool damage could occur. Discard these parts and use replacements (see SPARE PARTS SERVICE KITS).

1. Disconnect electrical or air connector from Powerig®. Uncouple tool hydraulic hoses.
2. Remove nose assembly.
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.

NOTE: Do not remove hydraulic hoses from the tool unless replacing the hoses. If it is necessary to remove hoses, uncover the hose fittings by sliding back the plastic shrouds.

5. **Use these steps only if the switch, wire, or electrical connector needs repair.** Remove retaining nut and locking ferrule from strain relief. Loosen setscrew. Remove trigger switch. Loosen and remove the two wires from the switch. Remove cord from tool. Disassemble electrical connector (P/N **110686**).

6. Models **2624, 2624-15**: Remove end cap retaining ring, cover plate, and locking disk. (Figure 8)

Models **2624HS, 2624-PT, 2624PTD**: Remove screws, retainer, deflector (2624PTD), and locking disk. (Figures 9 & 10)

Models **2630, 2630RR**: Remove retaining ring from rear of tool; then remove clamshell retainer assembly and locking disk. (Figure 11)

7. Insert hex key (P/N **126981**, shipped with tool) into end cap. (Figure 2) Using a wrench, unscrew the end cap from the cylinder.

8. Models **2624, 2624-15, 2630, 2630RR**: Remove the O-ring and Back-up ring from end cap.

Models **2624HS, 2624-PTD**: Remove the O-ring and Back-up ring from front gland, and retaining ring, washer, polyseal, and wiper seal from end cap.

9. Remove the dump valve from rear of cylinder.

10. Slide spacer over piston and thread Piston Assembly Tool onto front of piston. Using a press, push front gland and piston assemblies out the rear of the cylinder. (Figure 3)

11. Remove Piston Assembly Tool and spacer.

12. Slide front gland off of piston. Remove wiper, wiper housing, Back-up ring, O-ring, and Polyseal from front gland.
13. Remove the GLYD ring from the piston. (Figure 5)
14. Models **2624, 2624-15, 2630, 2630RR**: Hold piston in a vise and remove ejector gland/cartridge assembly with hex key (P/N 122048). (Figure 4)
15. Models **2624, 2624-15, 2630, 2630RR**: Remove ejector rod, wiper, and all seals from gland/cartridge.

The tool has been properly disassembled. Store all re-usable parts (screws and disassembled components) in a clean, dry area.

Figure 2

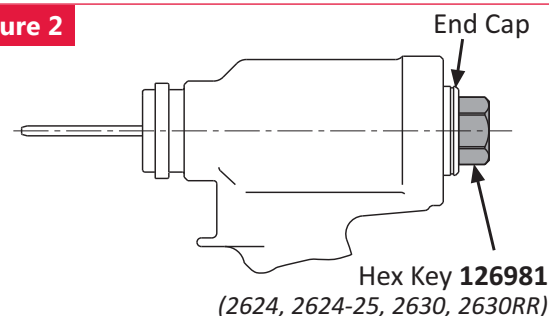


Figure 3

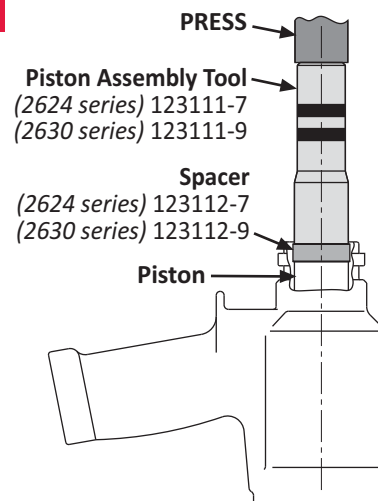
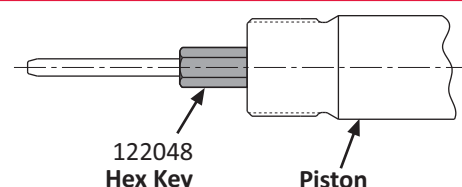


Figure 4





Assembly

NOTE: When reassembling the tool, always replace damaged and defective parts, and all seals, wipers, O-rings, and Back-up rings of subassemblies. Prior to reassembling the tool, HUCK recommends having the following items accessible.

- The appropriate Huck Spare Parts Service Kit: P/N 2624KIT (2624, 2624-15), P/N 2624HSKIT (2624HS, 2624-PT, 2624PTD), or P/N 2630KIT (2630, 2630RR)
- LUBRIPLATE® 130-AA (available as P/N 502723) or SUPER-O-Lube® (available as P/N 505476)



WARNING: Do not omit any seals during servicing; leaks will result and serious personal injury can occur.



CAUTION: Do not use TEFLON® tape on pipe threads. Tape can shred, resulting in malfunctions. Apply Parker Threadmate, Loctite 567, or Slic-tite stick to male pipe threads per manufacturer's instructions.

BEFORE ASSEMBLING THE TOOL:

- Clean components in mineral spirits or other solvent compatible with O-ring seals.
 - Clean out O-ring grooves.
 - Inspect components for scoring, excessive wear, and damage; replace as necessary.
 - Replace O-rings and Back-up rings. See Assembly Drawings for guidance on positioning these rings.
- When assembling the tool, take care not to damage O-rings, Quad-rings, Back-up rings.
- Smear LUBRIPLATE® 130-AA or SUPER-O-LUBE® on rings and mating parts to ease assembly.

TO ASSEMBLE THE TOOL:

1. **Models 2624, 2624-15, 2630, 2630RR:** Assemble all seals, washers, wipers, rings, and ejector rod into ejector gland/cartridge. Hold the piston in a vise with soft jaws and install assembled ejector gland/cartridge assembly. Use hex key (P/N 122048) to tighten.
2. Thread the Piston Assembly Tool and GLYD ring onto the piston (Figure 5). **NOTE: Do not install the spacer. The spacer is only used during disassembly procedure, as it assists in pushing out the front gland assembly along with the piston.**
3. Install Polyseal, O-ring, Back-up ring, wiper housing, and wiper into front gland. (Figure 5)
4. Lubricate the piston assembly tool and the piston; then slide the assembled gland over the piston assembly tool onto the piston. (Figure 5)
5. Thread the piston insertion tool into the back of the cylinder. (Figure 6)
6. Using a press, push the piston and front gland assembly into the back of the cylinder. (Figure 6)
7. Remove the piston assembly tool from the front of the cylinder, and the piston insertion tool from the rear of it.
8. At the rear of the cylinder, install the dump valve (Figure 8) with the four flats facing the rear of the tool.
9. Install O-ring and Back-up ring on the end cap. **Models 2624HS, 2624-PT, 2624PTD:** Install Back-up ring, O-ring, wiper seal, Polyseal, washer, and retaining ring into the end cap. (Figure 7)
10. Insert the hex key into the end cap. Use a wrench to thread the end cap into the back of the cylinder and

tighten. (Figure 2)

11. **Models 2624, 2624-15:** Install locking disk, cover plate, and retaining ring. (Figure 8)
Models 2624HS, 2624-PT, 2624PTD: Install locking disk, retainer, and screws. (Fig. 9); 2624PTD see Fig. 10
Models 2630, 2630RR: Install locking disk, clamshell retainer assembly, and retaining ring. (Figure 11)
- If removed during disassembly, reinstall the electrical connector. **If the switch or wire was removed, replace as follows:** Slide the retaining nut and ferrule onto the electrical wire. Feed the wire through the handle and pull out through the trigger switch hole. Attach the wires to trigger switch and push assembly back into the handle. Tighten the setscrew to hold trigger switch in place. Slide ferrule into the strain relief housing, then thread and tighten the retaining nut.
 - If removed during disassembly, install one hydraulic hose in handle port marked "P" and one in port marked "R".
 - Install male coupler 110438 on PULL pressure side and female coupler 110439 on RETURN pressure side of hoses.

Figure 5

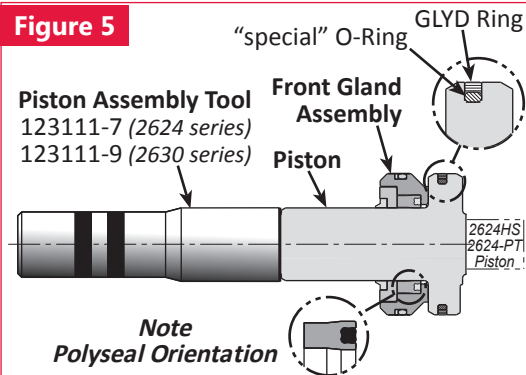


Figure 6

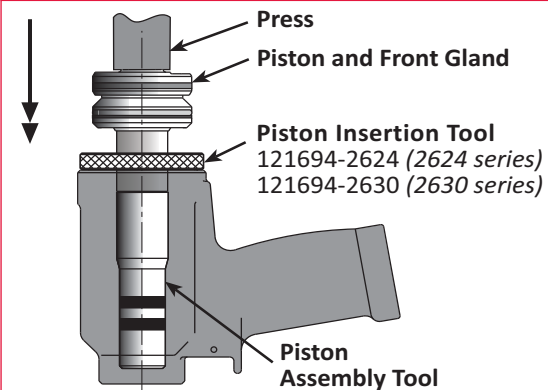
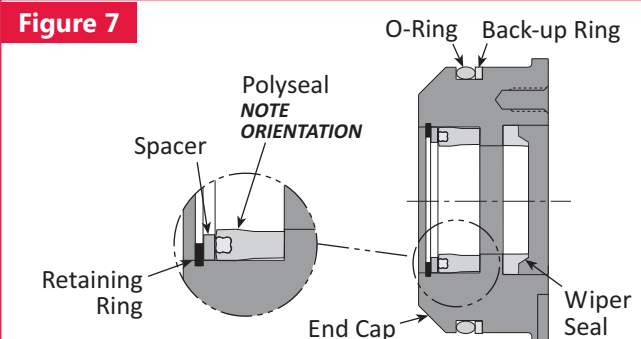
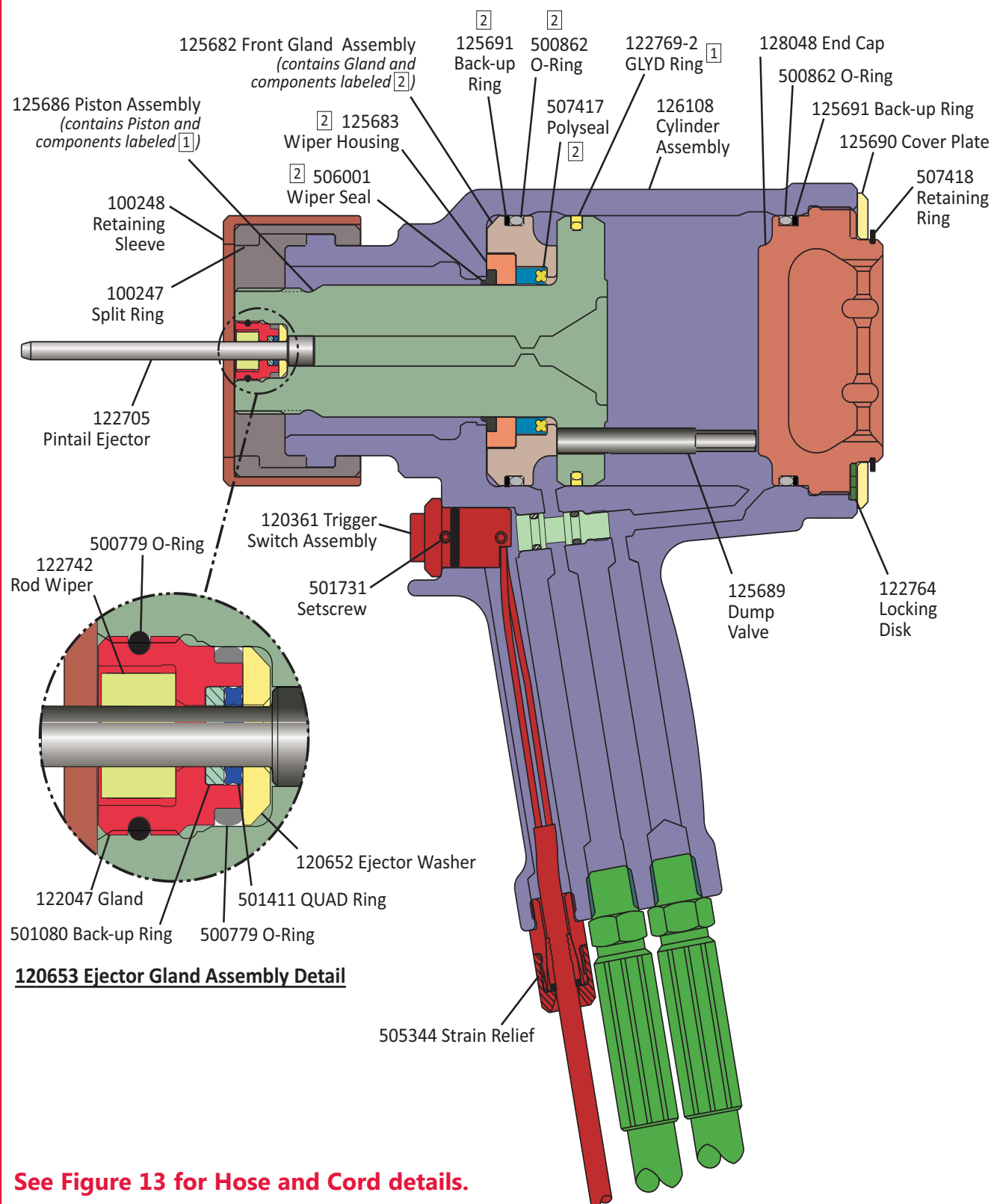


Figure 7





Assembly Drawing 2624 & 2624-15

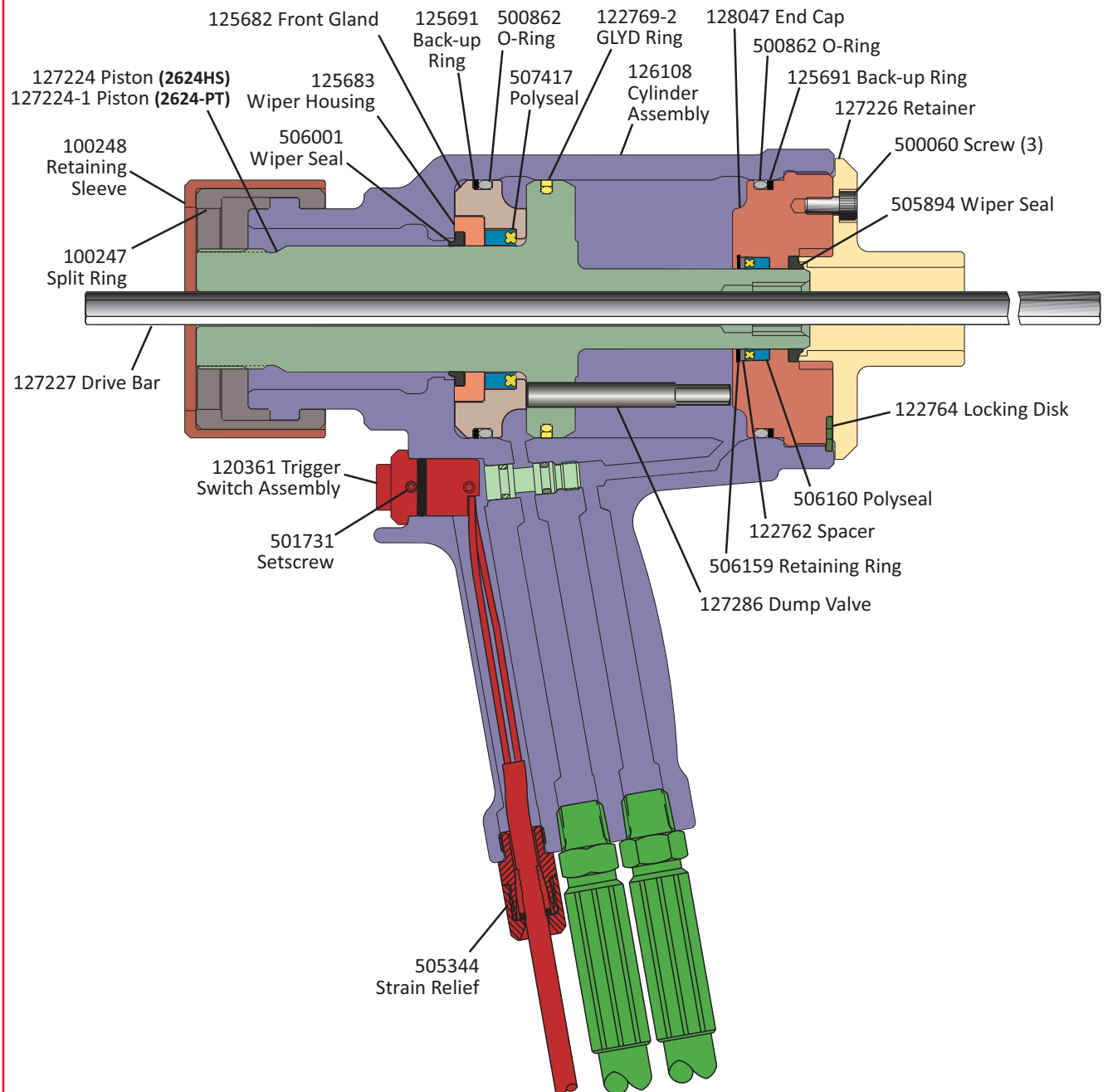


See Figure 13 for Hose and Cord details.

Figure 8



Assembly Drawing 2624HS & 2624-PT

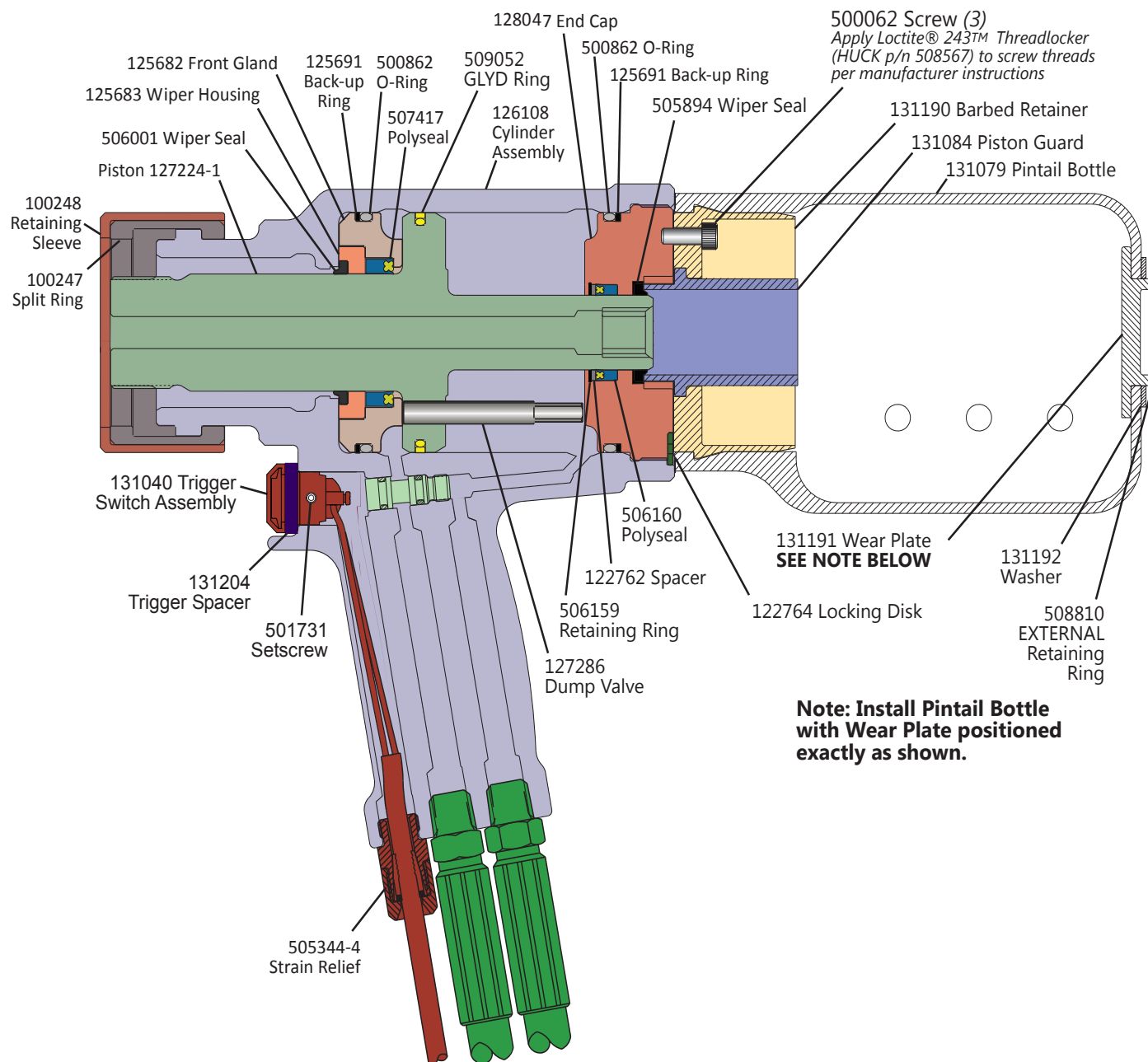


See Figure 13 for Hose and Cord details.

Figure 9



Assembly Drawing 2624PTD



2624PTD ASSEMBLY INSTRUCTIONS CONTINUED FROM PAGE 11, INSTRUCTION 11:

After installing End Cap and Wiper Seal, assemble Wear Plate inside Pintail Bottle exactly as shown, with Washer and Retaining Ring outside Bottle.

Place Piston Guard into Barbed Retainer, and seat both over rear of Piston, as shown. Secure Retainer and Guard in place with 3 Screws.

Press Pintail Bottle over Barbed Retainer until it seats on back of tool cylinder.

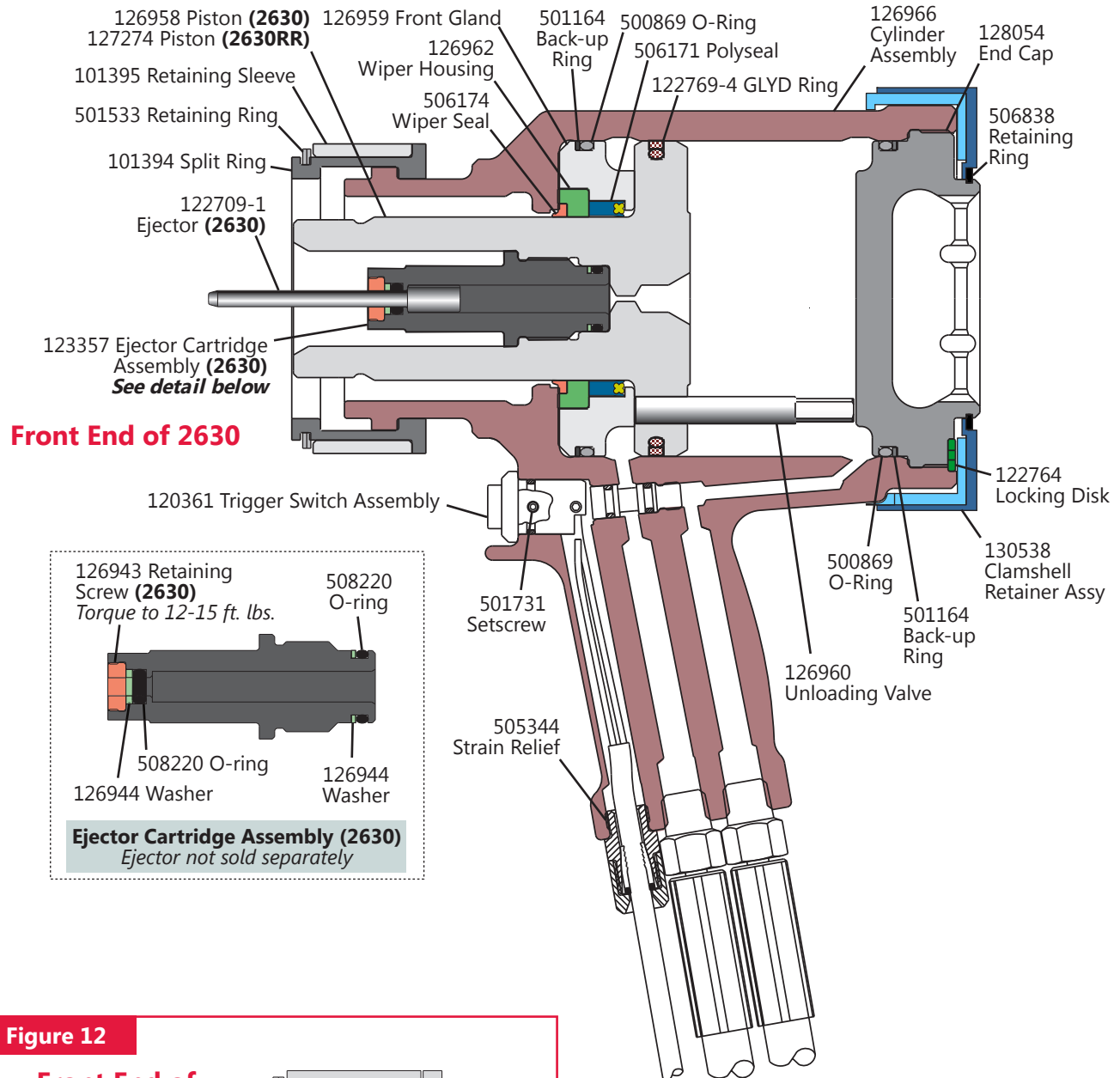
2624PTD_revH

See Figure 13 for Hose and Cord details.

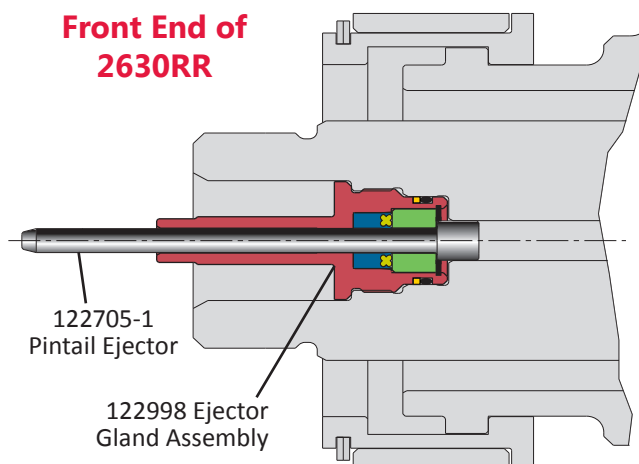
Figure 10



Assembly Drawing 2630 & 2630RR

Figure 11**Figure 12**

Front End of 2630RR



See Figure 13 for Hose and Cord details.

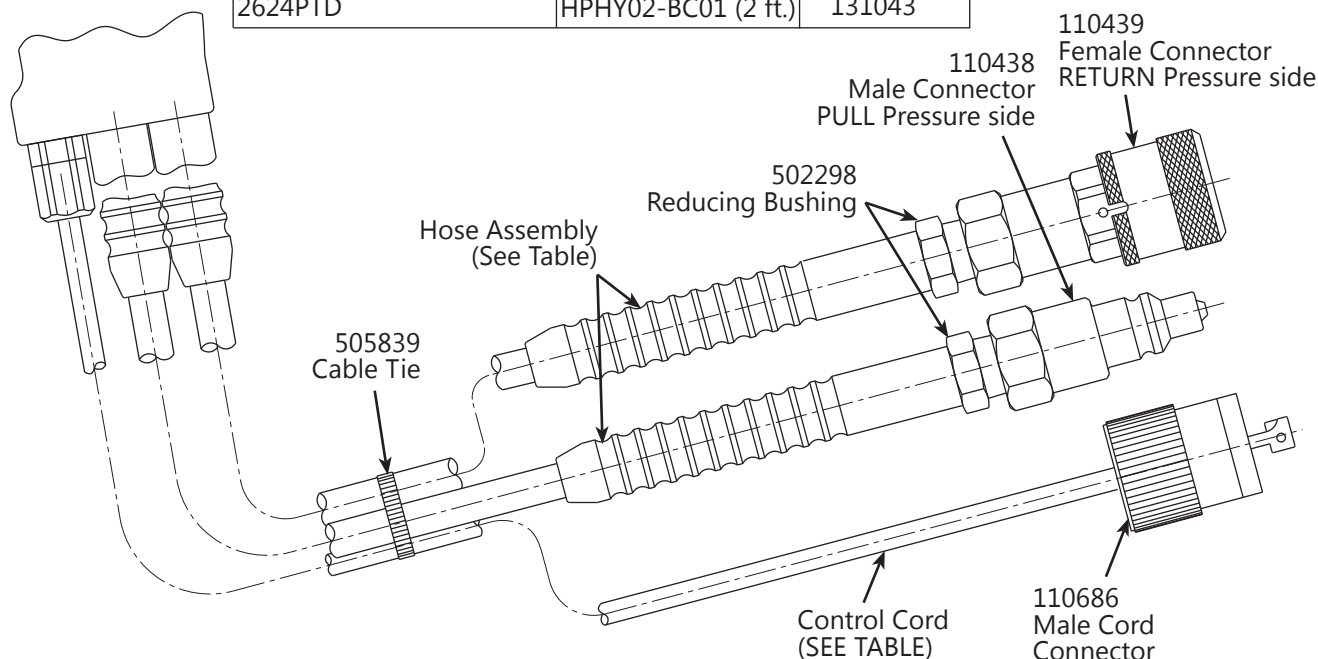
2630_revL
2630RR_revB



Hose Assembly

Figure 13

Tool Model	Hose Assembly	Control Cord
2624, 2630, 2630RR	126107-1 (2 ft.)	123337-1
2624-15, 2624HS, 2624-PT	126107-2 (16 ft.)	123336
2624PTD	HPHY02-BC01 (2 ft.)	131043



Kits & Accessories

SERVICE KITS

2624, 2624-15	- 2624KIT
2624HS, 2624-PT	- 2624HSKIT
2630, 2630RR	- 2630KIT

ASSEMBLY TOOL KITS

2624 & 2624HS Assembly Tool Kit - 123110-9

Includes: (Fig. 3 & 6)

Spacer	- 123112-7
Piston Assembly Tool	- 123111-7
Piston Insertion Tool	- 121694-2624

2630 Assembly Tool Kit - 123110-13

Includes: (Fig. 3 & 6)

Spacer	- 123112-9
Piston Assembly Tool	- 123111-9
Piston Insertion Tool	- 121694-2630

ACCESSORIES

Ejector Gland Hex Key - 122048
2624, 2624-15

End Cap Hex Key - 126981

Remote Trigger (All Models) - 123381-24

Suspension Brackets

Now available are Suspension Brackets which enable a user to install fasteners with increased ergonomic flexibility. Each Suspension Bracket Assembly contains the Bracket and Hardware shown below.

2624 series	- 127400-2624
2630 series	- 127400-2630

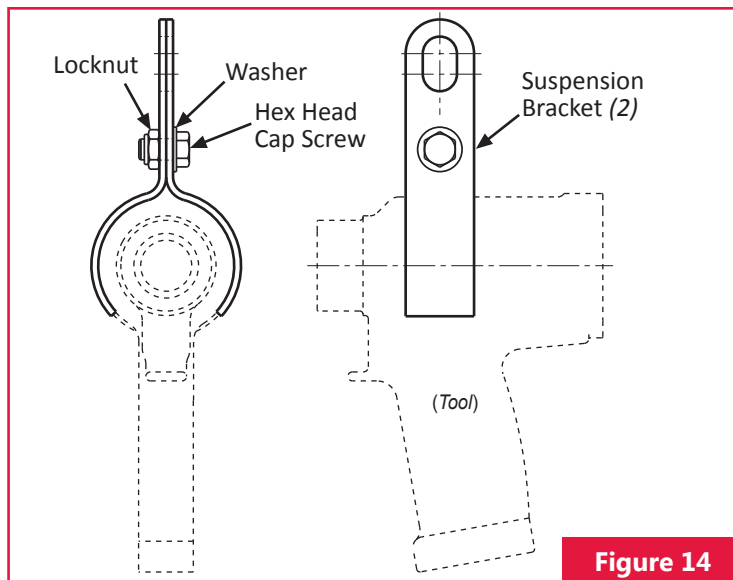


Figure 14



Sticker Locations

The 2600 Series tools are labeled with important stickers that contain safety and pressure-settings information. These stickers must remain on the tools and be legible. Damaged, worn, and missing stickers must be replaced. Sticker part numbers are shown below.

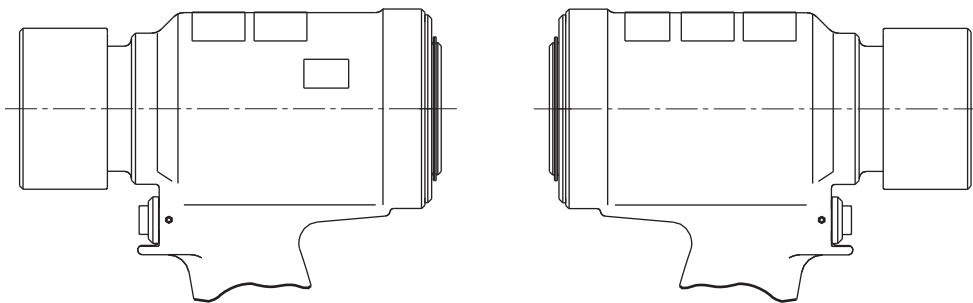
Figure 15

The following stickers must be on the main Cylinder of the tool.

590512-5 CE & WARNING
Sticker (Maximum Operating Pressures)

590517 HUCK &
Year of Mfr Sticker

590550 Pintail Bottle Sticker (2624PTD only)



590517



590550
2624PTD ONLY



590512-5



Troubleshooting

Always check the simplest possible cause (such as a loose or disconnected trigger line) of a malfunction first. Then proceed logically, eliminating other possible causes until the cause is discovered. Where possible, substitute known good parts for suspected defective parts. Use this Troubleshooting information to aid in locating and correcting trouble.

- 1. Tool fails to operate when trigger is depressed.**
 - a. Inoperative POWERIG® Hydraulic Unit. See applicable instruction manual.
 - b. Loose air or electric connections.
 - 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. Defective tool O-rings or loose hose connections at tool.
- 4. Hydraulic couplers leak fluid.**
 - a. Damaged or worn O-rings in coupler body. See Coupler 110440.
- 5. Hydraulic fluid overheats.**
 - a. Hydraulic unit not operating properly.
 - b. Unloading valve installed incorrectly.
 - c. POWERIG Hydraulic Unit running in reverse (918: 918-5) See unit's manual.
- 6. Tool operates erratically and fails to install fastener properly.**
 - a. Low or erratic hydraulic pressure; air in system.
 - b. Damaged or worn piston O-ring in tool.
 - c. Unloading valve installed incorrectly.
 - d. Excessive wear on sliding surfaces of tool parts.
 - e. Excessive wear of unloading valve in tool.
- 7. Pull grooves on fastener pintail stripped during PULL stroke.**
 - a. Operator not sliding anvil completely onto fastener pintail.
 - b. Incorrect fastener grip.
 - c. Worn or damaged jaw segments.
 - d. Metal particles in jaw segments pull grooves.
 - e. Excessive sheet gap.
- 8. Collar of HUCKBOLT® fastener not completely swaged.**
 - a. Improper tool operation. See Trouble 6.
 - b. Scored anvil.
- 9. Shear collar on Huck blind fastener not driven.**
 - a. Improper tool operation.
 - b. Worn or damaged driving anvil in nose assembly.
- 10. Tool "hangs-up" on swaged collar of HUCKBOLT Fastener.**
 - a. Improper tool operation. See Trouble 6.
 - b. RETURN pressure too low.
 - c. Nose assembly not installed correctly.
- 11. Pintail of fastener fails to break.**
 - a. Improper tool operation. See Trouble 6.
 - b. Pull grooves on fastener are stripped. See Trouble 7.
 - c. PULL pressure too low.
 - d. Worn unloading valve.



Limited Warranties

Limited Lifetime Warranty on BobTail® Tools:

Huck International, Inc. warrants to the original purchaser that its BobTail® installation tools manufactured after 12/1/2016 shall be free from defects in materials and workmanship for its **useful lifetime**. This warranty does not cover special order / non-standard products, or part failure due to normal wear, tool abuse or misapplication, or user non-compliance with the service requirements and conditions detailed in the product literature.

Two Year Limited Warranty on Installation Tools:

Huck International, Inc. warrants that its installation tools and Powerigs® manufactured after 12/1/2016 shall be free from defects in materials and workmanship for a period of two years from date of purchase by the end user. This warranty does not cover special order / non-standard products, or part failure due to normal wear, tool abuse or misapplication, or user non-compliance with the service requirements and conditions detailed in the product literature.

90 Day Limited Warranty on Nose Assemblies and Accessories:

Huck International, Inc. warrants that its nose assemblies and accessories shall be free from defects in materials and workmanship for a period of 90 days from date of purchase by the end user. This warranty does not cover special clearance noses, or special order / non-standard product, or part failure due to normal wear, abuse or misapplication, or user non-compliance with the service requirements and conditions detailed in the product literature.

Useful lifetime is defined as the period over which the product is expected to last physically, up to the point when replacement is required due to either normal in-service wear, or as part of a complete overhaul. Determination is made on a case-by case basis upon return of parts to Huck International, Inc. for evaluation.

Tooling, Part(s) and Other Items not manufactured by Huck:

HUCK makes no warranty with respect to the tooling, part(s), or other items manufactured by third parties. HUCK expressly disclaims any warranty expressed or implied, as to the condition, design, operation, merchantability, or fitness for use of any tool, part(s), or other items thereof not manufactured by HUCK. HUCK shall not be liable for any loss or damage, directly or indirectly, arising from the use of such tooling, part(s), or other items or breach of warranty or for any claim for incidental or consequential damages.

Huck shall not be liable for any loss or damage resulting from delays or non-fulfillment of orders owing to strikes, fires, accidents, transportation companies or for any reason or reasons beyond the control of the Huck or its suppliers.

Huck Installation Equipment:

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 location (see reverse).

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 Tool Kits and Nose Assemblies. Please contact your Huck Representative or the nearest Huck International location (see reverse) for the ATSC in your area.



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Kingston, NY 12401
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FAX: 845-334-7333

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3724 East Columbia
Tucson, AZ 85714
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520-747-9898
FAX: 520-748-2142

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Carson, CA 90745
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310-830-8200
FAX: 310-830-1436

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FAX: 0952-290459

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Waco, TX 76714-8117
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254-776-2000
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