TIRE SERVICE INTERNATIONAL

6346
PakPress®
Complete Kit

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MADE IN U.S.A

READ INSTRUCTIONS THOROUGHLY BEFORE OPERATING

Tire Service International, LLC
201 Chelsea Road
Monticello, MN 55362

Office: 602.437.5020
Email: sales@buytsi.com
Fax: 602.437.5025

Contact us for any assistance

800.223.4540

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General Description

The PakPress allows the removal or installation of studs without removing the hub. A two-hour job is done in as little as 20 minutes with no risk of damaging seals or bearings. No need to remove hubs or brake shoes, saving vehicle downtime.

Safety Requirements

1. READ THIS MANUAL BEFORE OPERATING

2. SAFETY GLASSES ARE REQUIRED

3. Do not wear loose clothing.

4. Before each use visually inspect the following items:

- **A.** Check for loose bolts, fittings, leaking hydraulic fluid, and damaged or improperly assembled accessory equipment.
- **B.** Examine the cylinder frame for damage and stress fractures.

5. Hydraulic pump is capable of delivering 10,000 pounds of force. Use caution during operation. Especially with fingers and hands.

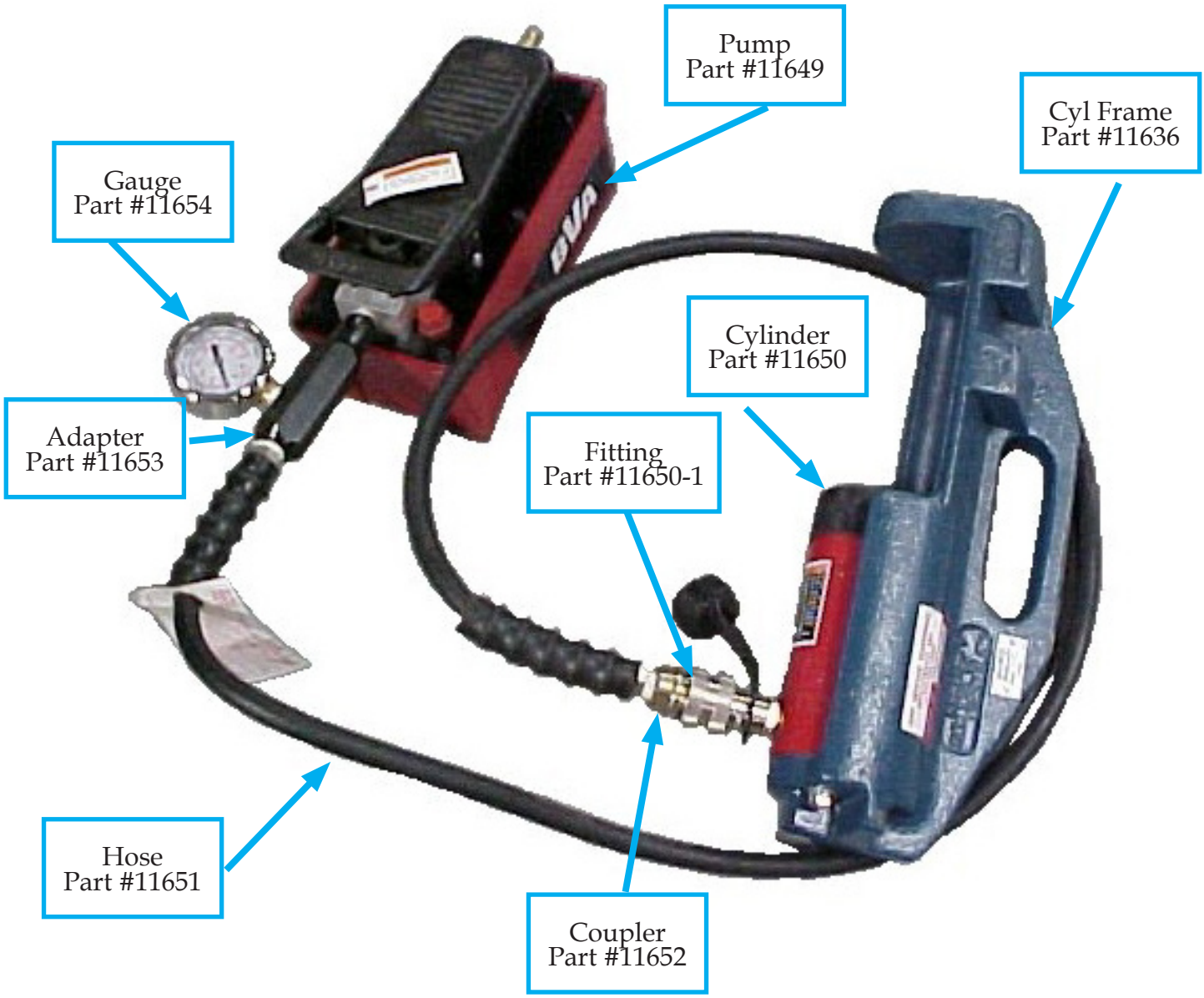
Installation Requirements

Only an air supply is needed for operation.
Input air supply must be lubricated and free of moisture.
Operate at a maximum of 15 CFM@100 PSI.

Set-Up Instruction

- Prepare a clean, level surface with adequate room to maneuver.
- Remove machine from packaging materials.
- Assembly cart (see next section).
- Have adapters properly in place before operating.

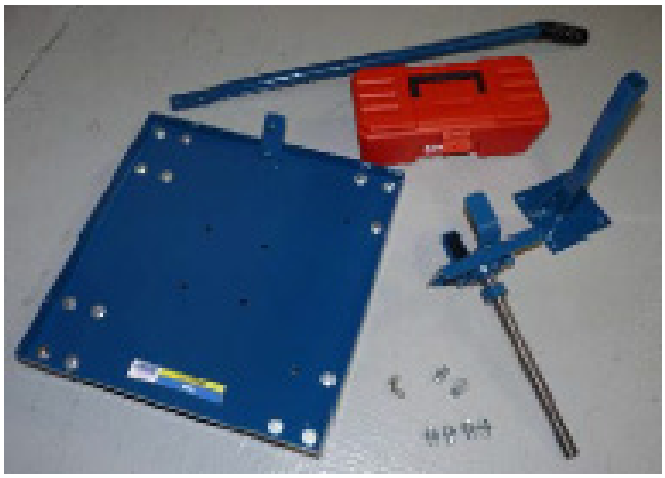
Primary Parts



Set-Up Instructions

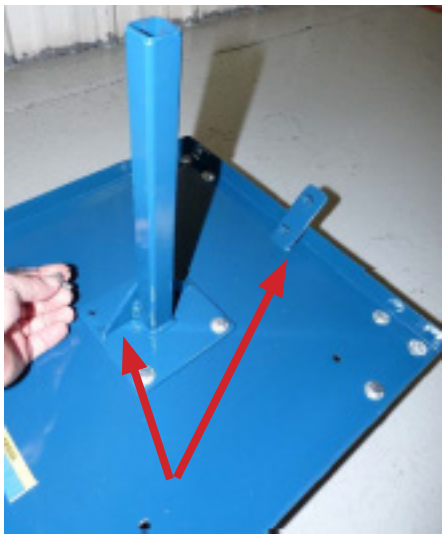
- Set aside the foot pedal, cylinder in frame and hydraulic hose for later.

Fig. 1



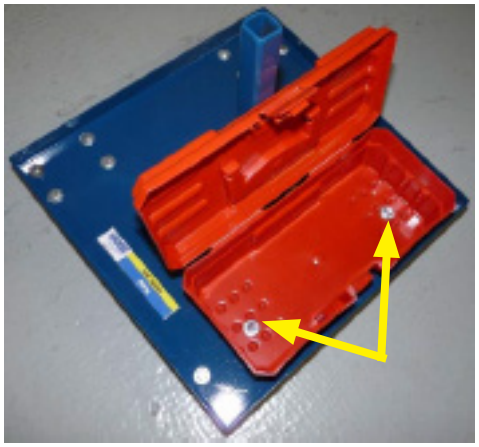
- Place the center tower on base. Fasten with four of the 1/4-20 x 1" bolts, washers and nylon locking nuts.
- Note orientation of gusset in relation to the handle mount. See arrows below.

Fig. 2



- Use remaining two 1/4-20 x 1" bolts, washers and locking nuts to fasten Tool Box

Fig. 3



- Position handle on mounting studs (see below) and tighten with the wing nut.

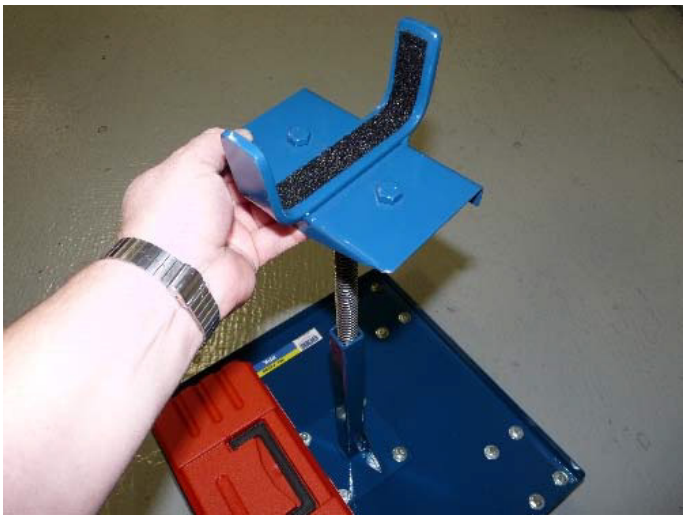
Fig. 4

- Once parts are assembled, tighten all hardware until firmly snug.

Set-Up Instructions

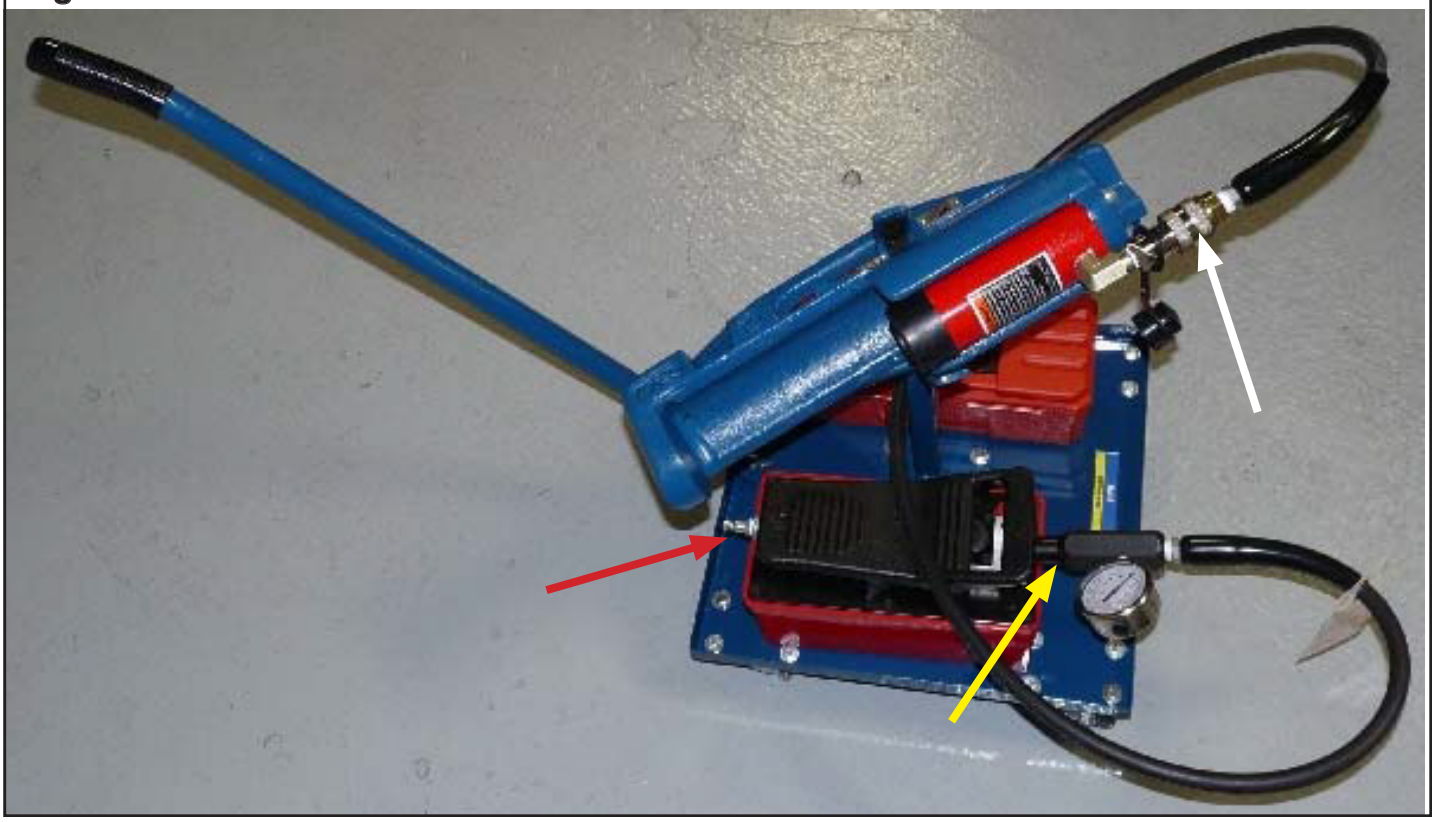
- Place the Left-Hand rotating screw in center tower as shown.

Fig. 5



- Connect hydraulic hose (gauge end) to port on hydraulic pump. See yellow arrow in Fig. 6.
- Use the quick-disconnect end of hydraulic hose to connect to the cylinder fitting (white arrow)
- Note: Make sure the coupling is assembled properly and tightened with pliers. Cylinder will not extend or retract if this is not assembled correctly.
- Place the hydraulic parts on cart.
- Place the adapters in tool box.

Fig. 6



Operating Instructions

Preparation

- Have the vehicle on a lift or jack stands with the tires removed.
- Provide clear access to the wheel hub so the PakPress unit has room to maneuver.
- Refer to Fig. 6 and connect the air supply to the hydraulic pump (reference red arrow).

Stud Removal

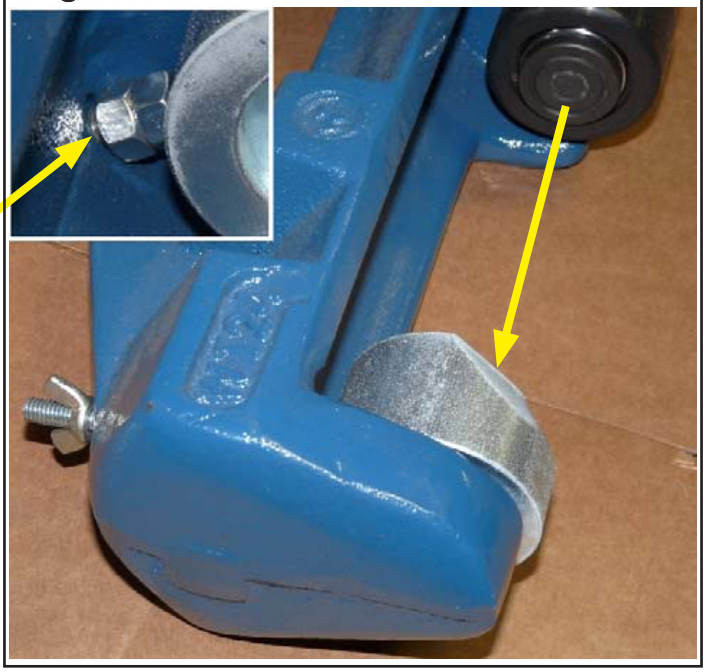
- Place Tool #1 in Fig. 8, firmly into threaded end of cylinder ram.

Fig. 7

- Adjust the two hex nuts on Tool #4 to approximate location shown in Fig. 8. The inner nut will act as a stop against the wall of the cylinder frame.
- Make the necessary adjustments with the hex nuts to align Tool #1 and Tool #4, then tighten the hex nuts to lock them in position. See Fig. 9. This will only have to be done once if done correctly.
- Fig. 9 illustrates how to line-up these parts. Once Tool #4 is located as shown, fasten wing nut to tighten into place. If these are not lined up properly, wheel studs could break and damage to the adapters or PakPress unit could occur.

Fig. 8

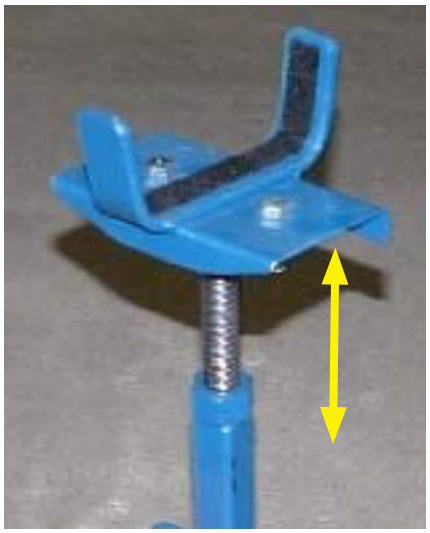
Fig. 9



Operating Instructions

- With adapters 'in place', wheel the cart into hub area and adjust height of the cradle that holds the hydraulic frame.

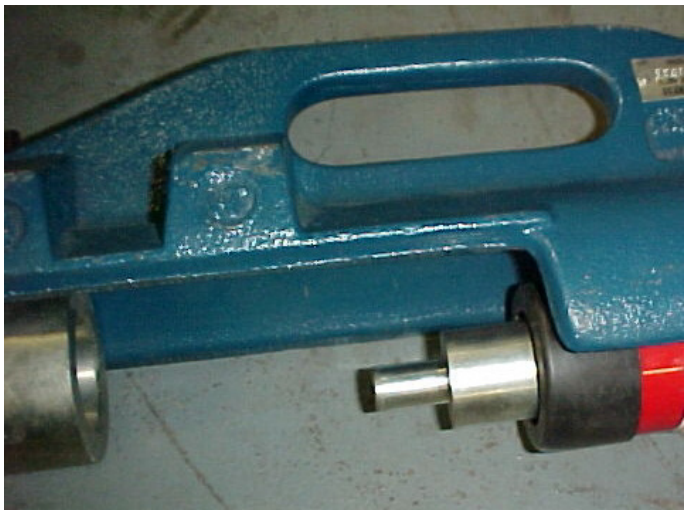
Fig. 10



Broken Stud Removal

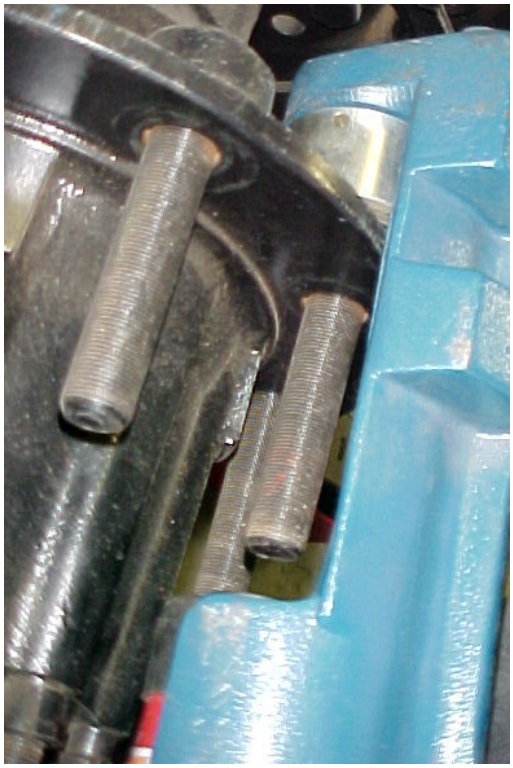
- A broken stud will need a flat surface to push against. If necessary grind the broken end of the stud until flat. Follow the same instructions for stud removal but replace tool #1 in the hydraulic cylinder with #2.

Fig. 12



- Position the frame unit over the stud being removed. Center the hydraulic frame and adapters. With the pump foot pedal apply pressure until both adapters make contact against the stud. (See Fig. 11.)
- If they center correctly and make good contact proceed to apply more pressure with the foot pedal until the stud is unseated.
- Press the foot pedal with your heel to retract the air cylinder. Make sure the hydraulic frame is supported as you do this.
- Remove all the studs from the wheel hub. Turn hub to line-up PakPress to remove each stud. (It's not necessary to readjust cart height each time.)
- Then exchange adapters and replace with new studs.

Fig. 11



Adapters Included

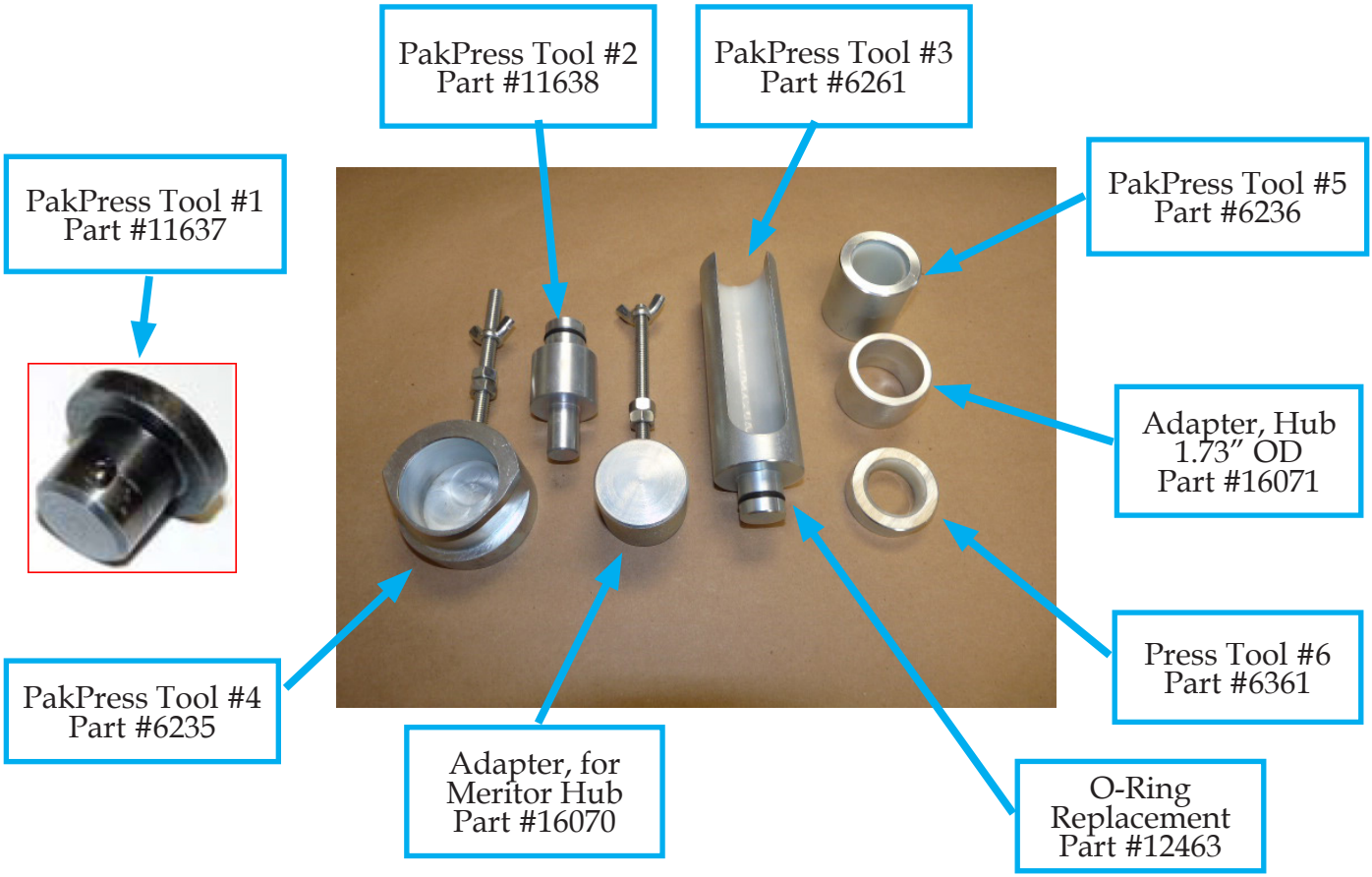
Piloted Hubs

- The PakPress unit also removes and installs studs on piloted hubs using tool #3 and tool #5 together. Please refer to below for tools. Follow the stud removal and installation instructions as described.

Fig. 12

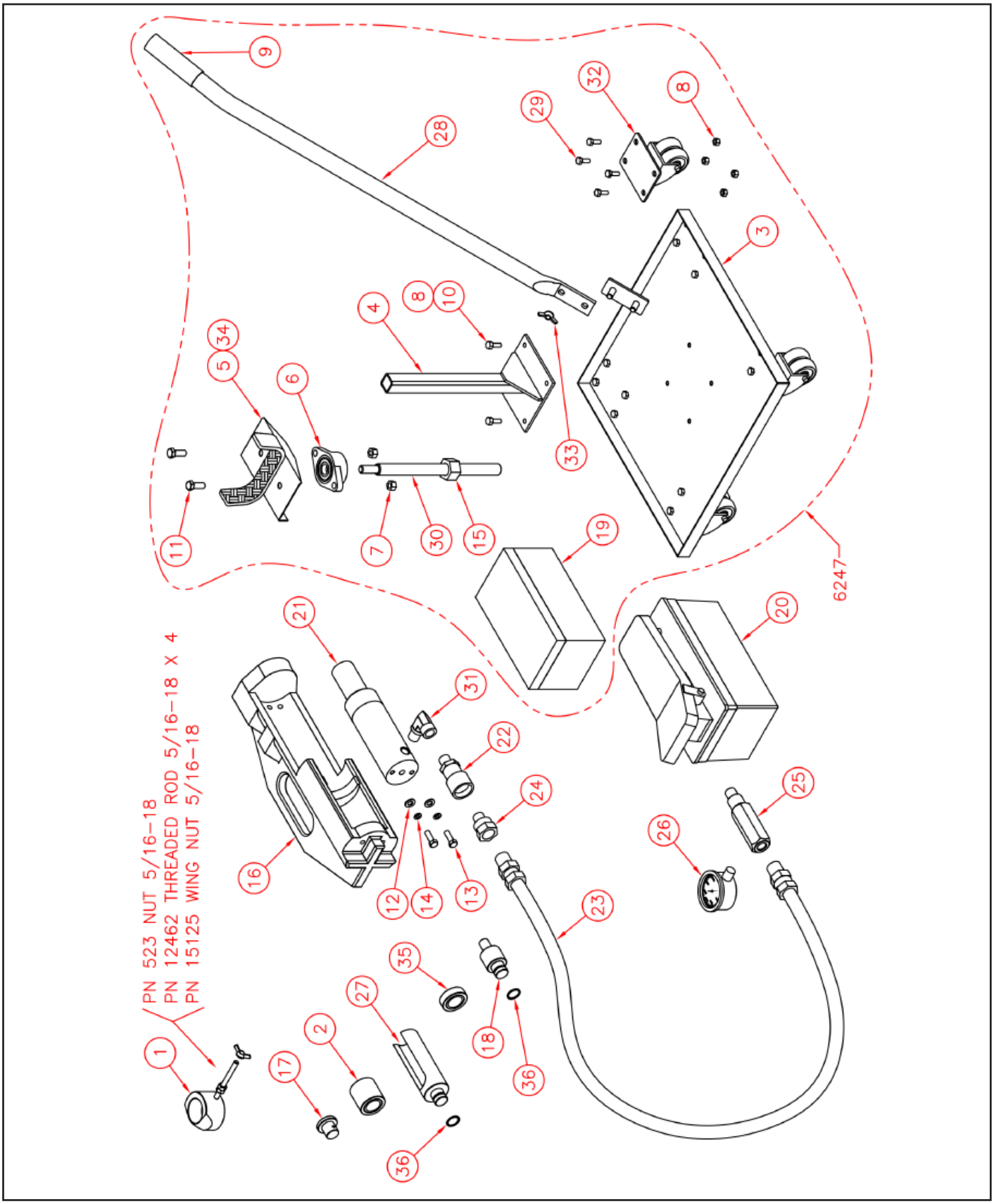
Stud Installation

- Put tool #3 into the hydraulic cylinder and rotate to desired position. (Fig. 12)
- Note: Remove tool #4 using the wing nut. It is not used when installing wheel studs.
- TSI recommends applying an anti-cease or lubricant on the shoulder of stud.
- Align new stud into position to be pressed in hub. Apply hydraulic pressure using the foot pedal on pump. Most of the stud will be within the slotted area in tool #3. As the frame comes into contact with the hub apply pressure until fully seating the stud. Visually inspect to make sure the stud is completely seated, then release hydraulic pressure and continue as necessary.



Notes

Parts Listing



Parts Listing

PARTS LIST			
ITEM	PART NO.	DESCRIPTION	QTY
1	6235	PRESS TOOL #4 ASSEMBLY	1
2	6236	PRESS TOOL #5 ASSEMBLY	1
3	6249	BASE WELD	1
4	6250	POST WELD	1
5	6265	SWIVEL WELD	1
6	75.107	FLANGE BEARING	1
7	212	NUT 3/8-16 NYLOK	2
8	226	NUT 1/4-20 SELF LOCK	20
9	231	HANDLE GRIP	1
10	903	HHCS 1/4-20 X .75	4
11	1306	HHCS 3/8-16 X 1.0	2
12	1318	WASHER 5/16 WROUGHT	2
13	1320	HHCS 5/16-18 X 1-1/2	2
14	1630	WASHER 5/16 SPRING LOCK	2
15	4953	NUT 3/4-6 LH ACME	1
16	11636	FRAME CASTING PAK PRESS	1
17	11637	PRESS TOOL #1	1
18	11638	PRESS TOOL #2	1
19	11646	STORAGE BOX	1
20	11649	HYDRAULIC PUMP	1
21	11650	HYDRAULIC CYLINDER	1
22	11650-1	FITTING	1
23	11651	HOSE	1
24	11652	HALF COUPLER	1
25	11653	GAUGE ADAPTER	1
26	11654	HYDRAULIC GAUGE 10,000 PSI	1
27	6261	PRESS TOOL #3, LONG ASSY	1
28	11659	HANDLE - FLATTENED	1
29	12468	HHCS 1/4-20 X .50	16
30	12460	STUD, PAK PRESS	1

PARTS LIST			
ITEM	PART NO.	DESCRIPTION	QTY
31	12482	ELBOW 3/8NPT(M) X 3/8NPT(F) X 90	1
32	15135	CASTER, DUAL WHEEL	4
33	15137	WING NUT 3/8-16	1
34		VELCRO	AR
35	6361	PRESS TOOL #6 ASSY	1
36	12463	O-RING 11/16 ID X 15/16 OD X 1/8 CS	2
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California Proposition 65

California's Proposition 65 entitles California consumers to special warnings for products that contain chemicals known to the state of California to cause cancer and birth defects or other reproductive harm if those products expose consumers to such chemicals above certain threshold levels.

WARNING: Some of Tire Service International's products can expose you to chemicals including chromium compounds, which are known to the State of California to cause cancer, birth defects or other reproductive harm. For more information, go to **www.P65Warnings.ca.gov**.

Your risk from exposure to these chemicals varies, depending on exposure time. To reduce your exposure, work in a well-ventilated area and with approved safety equipment, such as dust masks that are specially designed to filter out microscopic particles. Wash your hands after touching TSI's products.

Warranty and Return Policy

Warranty & Workmanship you can depend on.

With over 30 years of manufacturing experience we maintain the ability to provide competitive prices while employing and manufacturing the majority of our products in the USA. Pride in our workmanship and standing behind each and every product is not just our claim but our uncompromising responsibility.

Tire Service International equipment is warranted to be free from defects in materials and workmanship for a period of one year from the date of original purchase to the original owner. Repair labor is warranted for 90 days from the date of original purchase. Bushings, blades, bearings and normal wear and tear are not covered under warranty. Careless handling, negligence, misuse, abuse, mutilation, improper operation, making unauthorized repairs, additions, and or alterations automatically cancel this warranty and relieves TSI of any obligation. Cheetah tanks claimed to be defective while under warranty will be evaluated at our manufacturing plant and either repaired if possible or exchanged and returned or credit issued to the customer account at our discretion. Damage resulting from dropping the tanks will not receive warranty consideration. Warranty parts need to be returned prepaid to the plant for credit. Any replacement parts shipped from the plant will be shipped at the customer's expense. Machines requiring warranty work must be brought to the manufacturing plant in 201 Chelsea Rd, Monticello, MN or to a repair facility authorized by TSI.

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