TIRE SERVICE INTERNATIONAL

Cheetah® Bead Seater
CH-5 & CH-10 & CH-13

buyTSI.com - 800.223.4540



CH-5



CH-10



CH-13

MADE IN TAIWAN

Read this manual 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

Revised: November 2026

Overview

The CH-5 Cheetah® Bead Seater accommodates wheels from 4" to 24.5". This includes passenger and light truck tires and most commercial truck tires.

The CH-10 Cheetah® Bead Seater accommodates passenger and light truck tires, commercial truck and some implement tires.

The CH-13 Cheetah® Bead Seater accommodates wheel sizes 24" to 54". It works both vertical and horizontally and can be used in the field where the tire remains mounted.

Safety Instructions

- WARNING: CHEETAH® TANKS BLAST AIR AT A HIGH RATE.
- Personal Protective Equipment (Safety goggles, gloves, non-skid shoes and hearing protection are suggested).
- NEVER TRANSPORT OR STORE A CHARGED TANK - Accidental discharge could cause serious injury or damage
- Do not open the Cheetah® Bead Seater air release valve when connecting the air supply hose. When the Cheetah® Bead Seater is not in use, discharge air from tank. Store with valve open in a clean, dry location.
- Use proper body positioning.
- Always keep work clean, uncluttered, and well lit. Do Not work on a slippery floor surface.
- Keep bystanders out of the work area while operating and warn others when triggering
- Never point an air tool at people or animals.
- Detach from air supply and release all air pressure before installing, removing or adjusting any accessory on this tool or performing maintenance. Failure to do so could result in injury.
- If the unit appears damaged in any way, is missing parts, or operates abnormally, it shall be removed from service immediately. All units that have been dropped, impacted suddenly, or dented should be removed from service

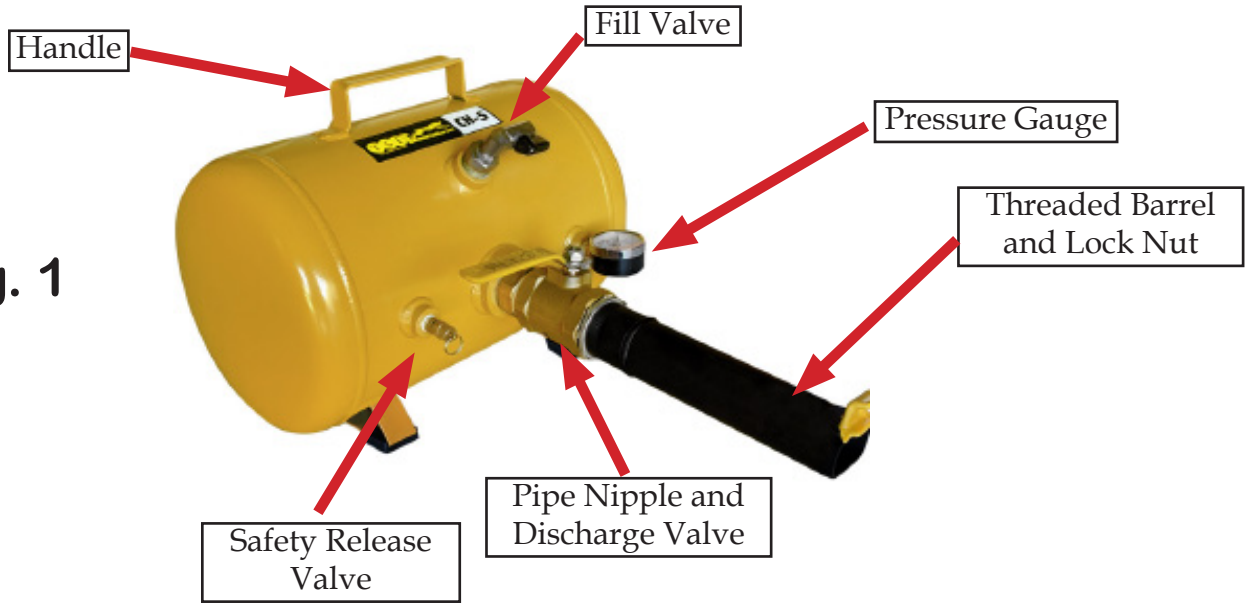


Fig. 1

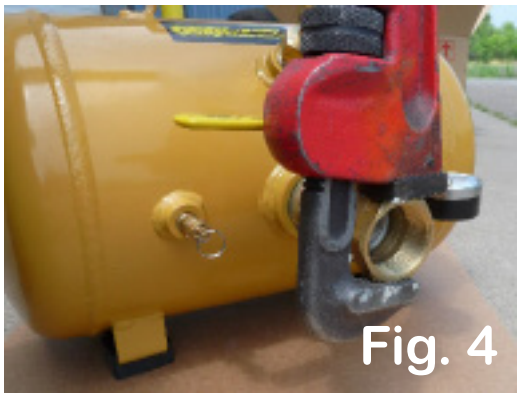
Setup Instructions

Verify receiving all the parts described in this instruction. The CH-5 is used as an example.


Fig. 2


Fig. 3

Install the discharge valve, safety release valve, fill valve, pressure gauge, and threaded barrel using appropriate sized wrenches. Use Teflon tape and tighten so air does not leak out of the fitting, but not overtightening. Add air to the tank and use soapy water on fittings to check connections for air leaks. Tighten them as necessary.


Fig. 4

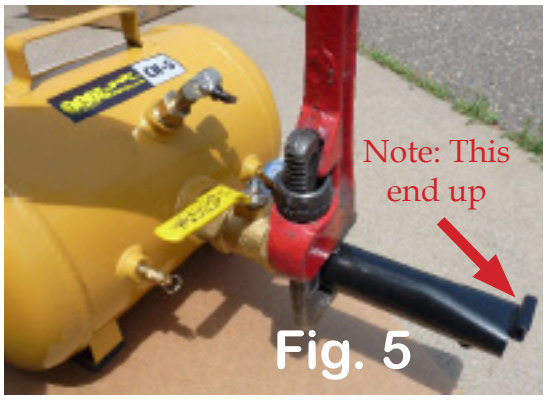
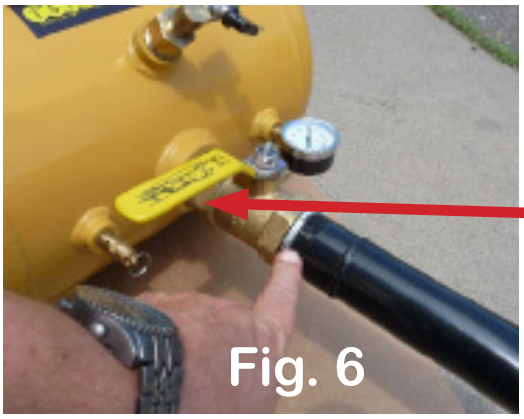


Fig. 5

In Fig. 6, tighten the lock nut ensuring the channel side of the threaded barrel is facing up as shown in Fig. 5. Install the safety release valve in Fig 7.

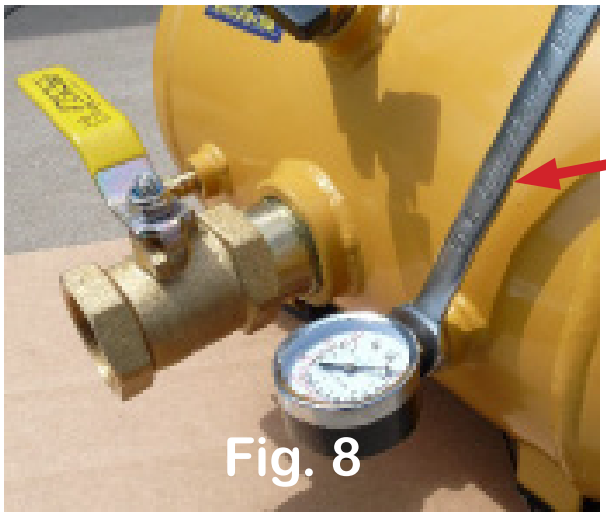
WARNING: DO NOT REMOVE SAFETY RELEASE. Excessive pressure could cause tank to rupture causing serious injury or death.


Fig. 6

Note closed position of discharge valve handle.


Fig. 7

Operational Instructions



If the pressure gauge becomes loose, tighten it with a wrench as shown in Fig. 8 and test for air leaks with soapy water.

IMPORTANT: Prepare each wheel by cleaning the rim. Dirt on the rim can create flying debris from the rush of air going into the tire.

TSI suggests using a quick-disconnect fitting (not included) on the air line to attach the air line to the valve stem after the valve stem core is removed from wheel. Set aside the core to replace later after bead is seated.

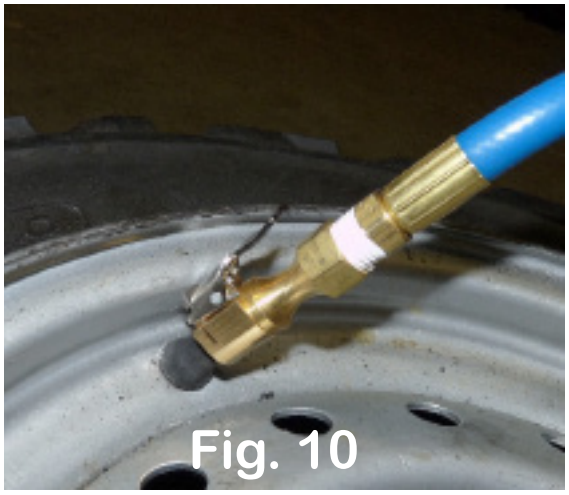
Lubricate tire beads and rim flanges with approved tire lubricant.

As shown in Fig. 9 positioning a wheel on the optional tire stand elevates both the tire and rim.

Connect the air hose to valve stem in Fig. 10. You may have to thread the air line through the rim center if the valve stem is facing the ground. In most cases, the wide flange of the wheel should be facing up.

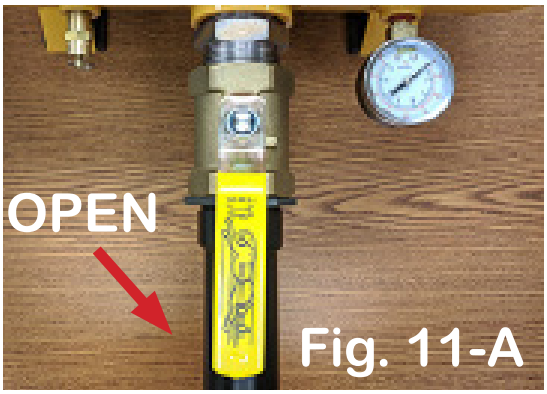
The lower tire bead must be resting on the wheel bead-seat area. This alignment is very important to ensure the tire will capture the air blast within the tire cavity.





Operational Instructions

NOTE: It is not always necessary to fill the tank to maximum pressure. The required pressure will vary depending on the size and type of tire. It is best to begin with lower pressure and work up to optimum pressure for the specific tire. Pressure of 80psi to 100ps should be the starting point and then adjusted up or down as necessary. Adjust the pressure downwards if, when the Cheetah is applied, the tire bead appears to seat at first and then rolls off again (this happens because too much air in the Cheetah has pushed the tire back off the rim after it was seated). Adjust the pressure upwards if the Cheetah does not lift the tire bead.



Never exceed 120 PSI
(Safety release valve is set to 120 PSI).



Firmly hold the Cheetah® tank as shown in Fig. 12. Lean forward slightly to hold it in position. Point the threaded barrel down into the tire as shown in Fig. 13. Usually this is a 45 degree angle, but will vary from one tire to another. Open valve on the supply air hose to fill tank.

Gather your footing, hold one hand onto the Cheetah® handle and the other on the discharge valve lever. Fully open the discharge valve lever quickly releasing all the air into the tire, lifting the bead. See Fig 11-A.

Once the bead fully moves into position close the air supply valve. Remove the hose locking chuck from the valve stem and replace valve stem core. The amount of air to seat the bead depends on the tire. Most tires can be seated between 40 PSI- 100 PSI. Several attempts to seat the bead may be necessary.

Make sure the valve stem core is firmly tightened in place. Place the tire into a tire cage and proceed to inflate the tire to manufacturer's tire pressure requirements.

Check for leaks and if necessary repeat process then place valve cap on valve stem and wipe off excess lubricant.





Maintenance

To ensure the highest level of performance and operator safety, each Cheetah® tank should be inspected regularly for signs of damage due to wear, accidental impact from drops or other shop wear and tear or storage conditions. Inspection of the tank both external/internal and replacement is the ideal approach to insure optimum user safety. Safety related input from our tank manufacturers suggest replacement after 5 years in service.

- **Daily**: Inspect the pressure gauge (Part# 01.106) and Safety Release Valve. Visually inspect the exterior of the tank for rust or deterioration.
- **Monthly**: Pull the ring of the safety release valve to ensure the valve moves freely and isn't restricted.
- **Every six (6) months**: Visually inspect the interior of the tank for rust or deterioration by removing the discharge valve and threaded barrel. Shine a light into the tank to improve visability. Be sure to release all pressure from tank first.
- **Storage and Drain**: The Cheetah® should be stored by hanging from the handle with the valve open. This allows any moisture to drain from the tank when the Cheetah® is not in use. It also protects the barrel and other attachments on the Cheetah® from damage.
- Discontinue using the tank if any of the maintenance items need service. Contact your Distributor or TSI at 800-223-4540 or 602-437-5020 for replacement parts or units.

The (5) year service is based upon safety related input from our tank manufacturer. Following the maintenance inspection protocol and good judgment of the user, should be the final determination of the unit's safety and need for replacement. Under NO circumstances should a tank with signs of deterioration, damage or malfunction safety valves or gauges be used.

Use genuine Cheetah® TSI replacement parts. Use of non-cheetah parts will void the warranty. Under no circumstances should items be welded or attached to the tank.

TSI Cheetah® warranty does not cover a dropped tank or damage resulting from dropping the unit. Any tank that has been dropped or shows sign of damage should be immediately removed from service.

Dimensions

Model	Length	Width	Height	Shipping Wt.
CH-5	18″	14″	14″	30 lbs
CH-5 AL	18″	14″	14″	18 lbs
CH-10	24″	16″	15″	46 lbs
CH-10 AL	24″	16″	15″	29 lbs
CH-13 AL	30″	20″	16″	31 lbs

Safety Notes

Safety Inspection for Compliance
TIRE BEAD SEATING TANKS



REPLACEMENT PERIOD IS 5 YEARS IN USE

1 CHECK DATE CODES

A. MANUFACTURED DATE IS LOCATED ON THE WELDED PLATE ON THE BACK OF THE TANK.
B. LOCATE THE FIRST USED ON DATE, BELOW THE FILL VALVE.
C. IF NO USE DATE IS LABELED, DEFAULT TO MANUFACTURED DATE OR PURCHASED DATE.





2 INSPECT EXTERIOR OF THE TANK

A. THE TANK SHOULD BE FREE OF MAJOR DENTS OR BULGES.
B. IF THE TANK EXHIBITS ANY OF THE LISTED DAMAGE, REMOVE FROM SERVICE AND REPLACE IMMEDIATELY .



3 INSPECT INTERIOR OF THE TANK

A. REMOVE DISCHARGE VALVE AND BARREL FROM THE TANK.
B. USING A FLASHLIGHT, INSPECT INTERNALS OF TANK.
C. IF ANY CORROSION IS VISIBLE INSIDE THE TANK OR STRESS AT WELD POINTS, REMOVE FROM SERVICE AND REPLACE TANK IMMEDIATELY.





4 RETURN TO SERVICE

A. IF THE TANK PASSES ALL TESTS, LISTED ABOVE, MAKE SURE TO MARK THE DATE OF FIRST USE AND SAVE A REMINDER FOR TANK REPLACEMENT BASED ON THE MOST RECENT DATE OF RECORD: MANUFACTURER DATE, PURCHASED DATE, AND FINALLY, FIRST USE DATE.



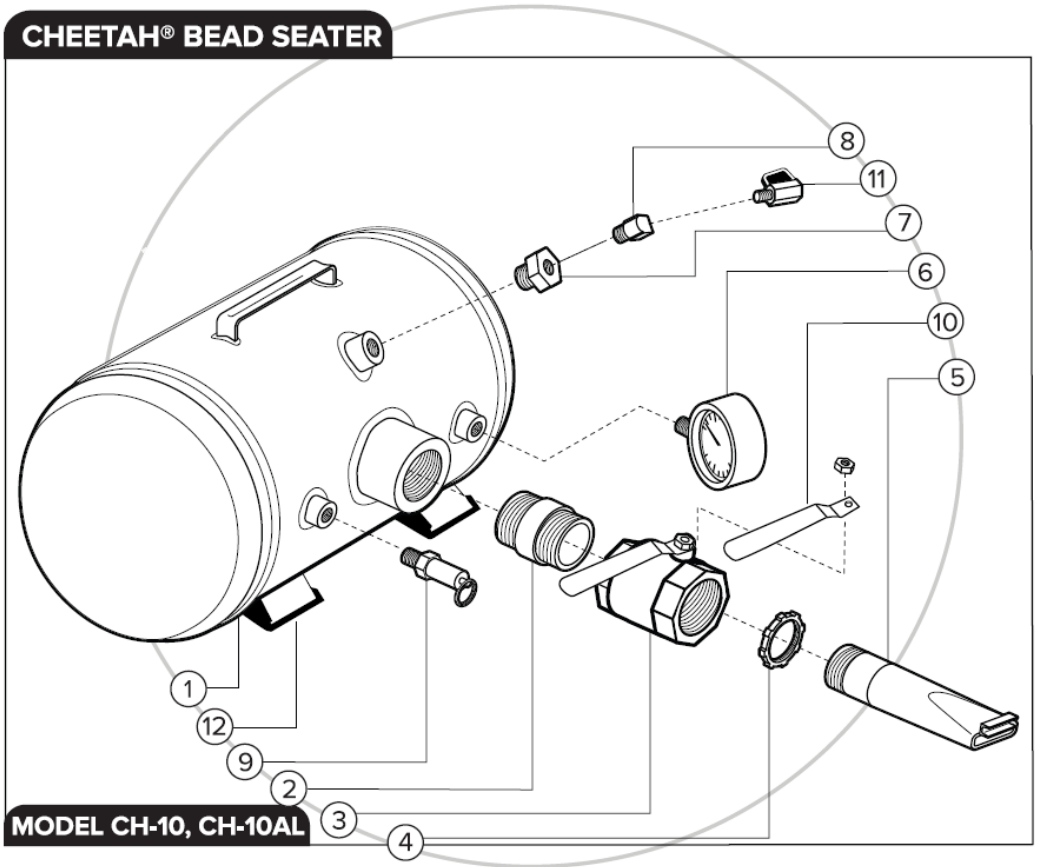


5 TANK REPLACEMENT

A. IF YOUR TANK HAS FAILED ANY OF THESE INSPECTIONS IT IS TIME TO REPLACE THE TANK. IT IS ADVISED TO SALVAGE GOOD CONDITION PARTS AND RECYCLE THE TANK AS SCRAP METAL.

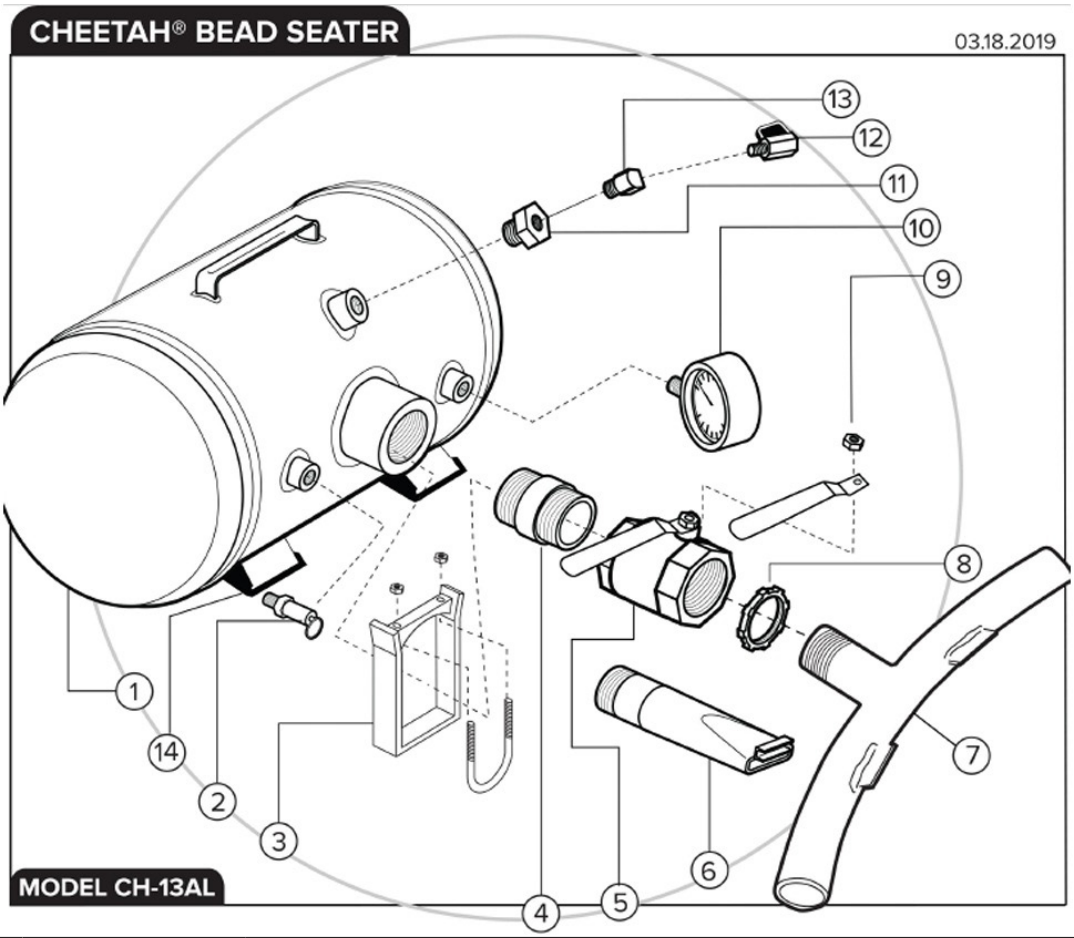


CH-5 and CH-10 Spare Parts



ID	Item #	Description
2	01.104	CH-5 - Nipple 1.5”
2	02.104	CH-10 - Nipple 2”
3	02.102	CH-5 - Discharge Valve
3	03.102	CH-10 - Discharge Valve
4	02.107	CH-5 - Lock Nut for Barrel
4	03.107	CH-10 - Lock Nut for Barrel
5	02.103	CH-5 - Threaded Barrel
5	03.103	CH-10 - Threaded Barrel
6	01.106-200	Both - Air Pressure Gauge 1/4 NPT 200 PSI
7	01.107	Both - Reducer, Bushing 3/4 x 1/4
8	03.104	Both - Elbow 1/4 NPT M x 1/4 NPT F x 90 Street Brass
9	05.102	Both - Valve, Safety Release 120psi
10	01.230	Both - Handle & Nut Only For Discharge Valves
11	04.103	Both - Valve, Ball Silver/Black
12	12607	Both - Rubber Feet For Bead Seater
12	12608	Both - Screw for Rubber Feet

CH-13 Spare Parts



ID	Item #	Description
2	05.102	Valve, Safety Release 120psi
3	05.107	Support Handle
4	02.104	Nipple 2"
5	03.102	Discharge Valve
6	03.103	Threaded Barrel
7	03.106	Magnum II Barrel
8	03.107	Lock Nut for CH-10 Barrel
9	01.230	Handle & Nut Only For Cheetah Discharge Valves
10	01.106-200	Air Pressure Gauge 1/4 NPT 200 PSI
11	01.107	Reducer, Bushing 3/4 x 1/4
12	04.103	Valve, Ball Silver/Black
13	03.104	Elbow 1/4 NPT M x 1/4 NPT F x 90 Street Brass
14	12607	Rubber Feet For Bead Seater
14	12608	Screw for Rubber Feet

Optional Items

Difficult Wheels?

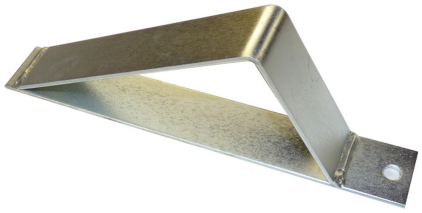
The magnum barrels provide optimum air dispersion for larger diameter wheels. The curved tube has holes in it for direct air flow into the tire



Magnum I (CH-5) Item #02.106



Magnum II (CH-10) Item #03.106



Tire Wedge Item #01.110



Tire Stand Item #01.111

The optional **Jet Pak** is faster and easier than standard ball or butterfly discharge valve operation. Attaches easily to existing pipe nipple, replacing manual discharge valve.

Discharges tank with the press of a button. Safety cover prevents accidental trigger release. Includes improved Jet Barrel for greater air volume delivery.

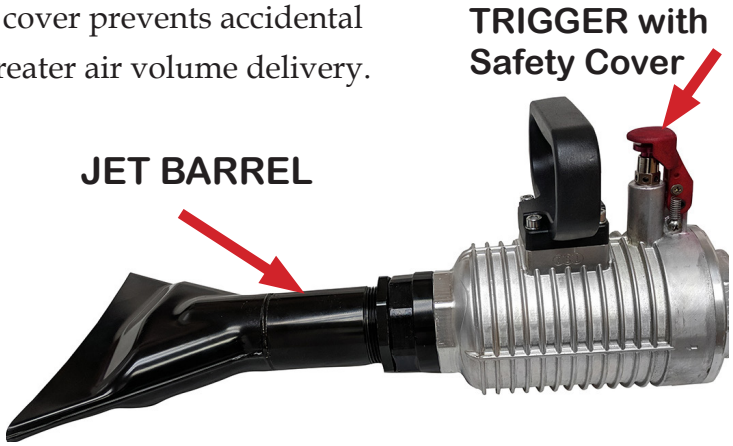
JET PAK INCLUDES:

Jet Barrel and Valve

Available sizes:

CH1.5JP: 1.5″ port size - CH-5

CH2.0JP: 2″ port size - CH-10 and CH-13



Notes

VEHICLE TYPE	TIRE TYPE EXAMPLES	SUGGESTED TANK PRESSURE	TIPS
ATV	16-650-8 22-11-8 25-12-9 24-9-11	40 psi (2.7 bar)	Fit on stand, with stand in highest position. Can be fitted with the valve at the bottom.
Lawn Tractor	16-650-8 23-1050-12 26-12-12	40 - 50 psi (2.7-3.4 bar)	Use the stand in the highest position
Car	13" Rims 14" Rims	50 - 60 psi (3.4-4.1 bar)	If difficult, do not place on the stand - lean the rim against it. Ensure that valve is covered. Lubricate well.
4 X 4	15" Rims 16" Rims	60 - 80 psi (4.1-5.4 bar)	Fit in vertical position. Lubricate well. Ensure that the valve is covered by the tire
Truck	11-22-5 18-22-5	100 (6.8 bar) 120 (8.2 bar)	Can be fitted vertically - i.e. still on the truck. Rotate the Cheetah Spout to the correct position. If using stand, use in the lowest position.
Tractor	Up to 28" Over 28"	100 psi (6.8 bar) 120 (8.2 bar)	Fit horizontally, position the bottom bead on the rim, use the tire wedge.
Large Tractor	Terra Tires 48-31-20 66-43-25	120 psi (8.2 bar)	Fit vertically. Roll tire until the back bead is in position. If you fit a lot of these, enquire about the larger Cheetah

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.

TSI TIRE SERVICE INTERNATIONAL

Register your product online!

www.buytsi.com/registration

!!WARNING!! Goods returned without an RGA will be refused. A Returned Goods Authorization form must be obtained before returning any material or goods. All non-warranty returns will be subject to a 15% restocking fee plus any additional charges for reconditioning/repacking.

Visit www.buyTSI.com for any additional information. Also be sure to follow us on all the Socials, and subscribe to our YouTube channel for all our product videos.

No part of this manual may be reproduced without specific approval from
Tire Service International, LLC.

Copyright © 2026 Tire Service International, LLC