OPERATING MANUAL

CH-5 & CH-5AL CHEETAH® BEAD SEATER
CH-10 & CH-10AL CHEETAH ® BEAD SEATER

READ INSTRUCTIONS THOROUGHLY BEFORE OPERATING

TSI SSG
TIRE SERVICE EQUIPMENT MFG. CO. INC.
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GENERAL INFORMATION

General: Remove contents from box and assemble as shown below in Fig. 1. Read and follow instructions for optimum use.

Overview: The CH-5 & CH-5AL Cheetah® Bead Seater accommodates wheels from 4" to 24" to bead seat the tire to the rim flange.
The CH-10 & CH-10AL Cheetah® Bead Seater accommodates passenger and truck tires, Super Singles and some implement tires

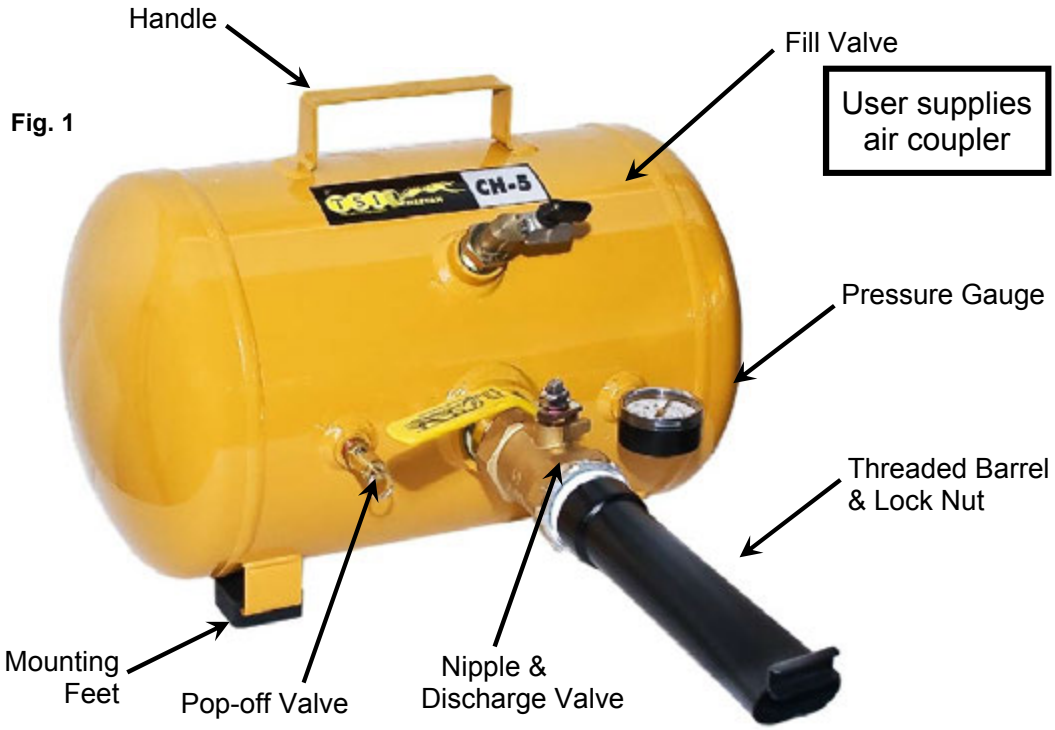
All tanks are ASME approved and several accessories are available.

WARNING **AIR IN TANK CAN REACH HIGH PRESSURE**

USE CAUTION! Wear Safety Glasses and Hearing Protection NEVER DISCHARGE CHEETAH AIMED AT A PERSON

Primary Features:

Fig. 1



Many accessories can be used with the Bead Seater. These additional features are shown throughout this Operating Instruction guide.

Follow these instructions for proper Bead Seating methods and practices.

CH-ACC Kit:

Whip Hose
PN 01.109

Tire Wedge
PN 01.110

Tire Stand
PN 01.111

INSTRUCTIONS

Set-Up

Verify receiving all the parts described in this instruction. If necessary assemble as shown in Fig. 3 thru Fig. 8.

DO NOT use the CHEETAH® Bead Seater for anything but seating tire beads.


Fig. 2


Fig. 3


Fig. 4

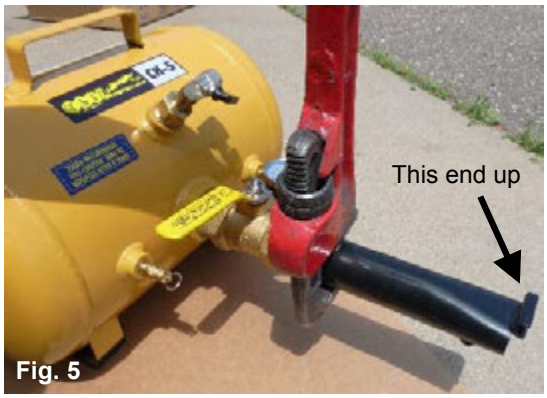


Fig. 5

To install the discharge valve and threaded barrel use a large pipe wrench or a large socket wrench. Tighten so air doesn't leak out of the fitting. Use Teflon tape where applicable.

A helpful hint: To hold tank in-place slide it on the fork of a forklift (through the handle) and tighten the threaded Barrel or Discharge Valve if they come loose. Put some air in the tank and use soapy water to check fitting connections for air leaks. Tighten them as necessary. When tightening make sure Nipple tightens too.


Fig. 6

Note position of Discharge Valve handle.

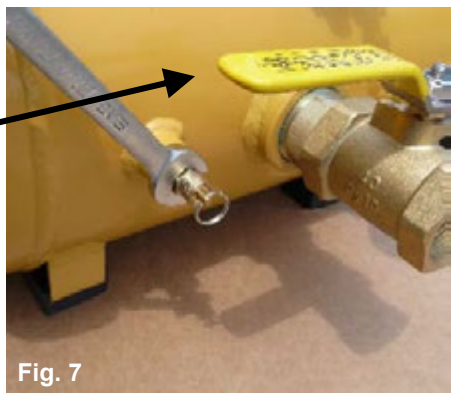


Fig. 7

In Fig. 6 use a screwdriver and a hammer to tighten pipe nut. Make sure the end of the threaded barrel as in Fig. 5 is up. If the Pop-off valve in Fig. 7 comes loose tighten it as shown.

INSTRUCTIONS (CONTINUED)


Fig. 8

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

DO NOT REMOVE POP OFF VALVE

Changing parts or making modifications to the CHEETAH® Bead Seater voids the warranty and TSI will not be held liable.

How to use

Important: Prepare each wheel. This includes mounting tires on clean rims. Since dirty rim flanges and poor tire beads are not desired anyway this also helps prevent unnecessary flying debris from the rush of air going into the wheel.

At least one air pressure line is needed. Two would be optimum. *For purposes of instruction - directions are provided as if one line is used.* TSI suggests using a quick-disconnect fitting on the air line.

Remove valve stem core from wheel. Set aside to replace later after bead is seated. Lubricate tire beads and rim flanges with soapy water or other lubricant.

Before placing wheel on Tire Stand (Fig. 9) connect Whip Hose to valve stem. Fig. 10. You may have to thread the air line or part of the Whip Hose through the rim center if the valve stem is facing the ground when on the Tire Stand.

Place tire with inner/back bead of wheel facing down onto the Tire Stand. Fig. 9.


Fig. 9

Connect Locking Chuck to valve stem

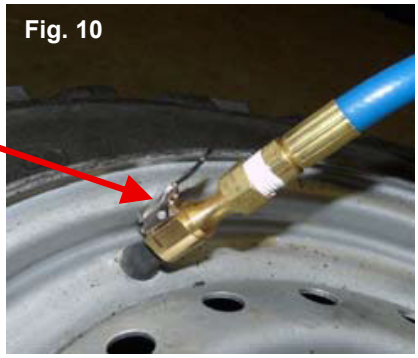


Fig. 10

NEVER TRANSPORT OR STORE A CHARGED TANK

As shown in Fig. 9 & later in Fig. 11, positioning a wheel on the Tire Stand will elevate both the tire and rim in direct proportion to each other. The lower tire bead must be resting on the wheel bead-seat area. **This is very important.**

You can also use the Tire Wedge pictured on page 2.

See Fig. 11 for a better look at the slope of the Tire Stand with a tire and rim on it.*

* The wheel in Fig. 11 was used as an example to show Bead Seating can be done on more than just car or truck wheels


Fig. 11

Now you can attempt to *seat* the tire bead and rim.

Note: It's not always necessary to fill the tank to capacity.

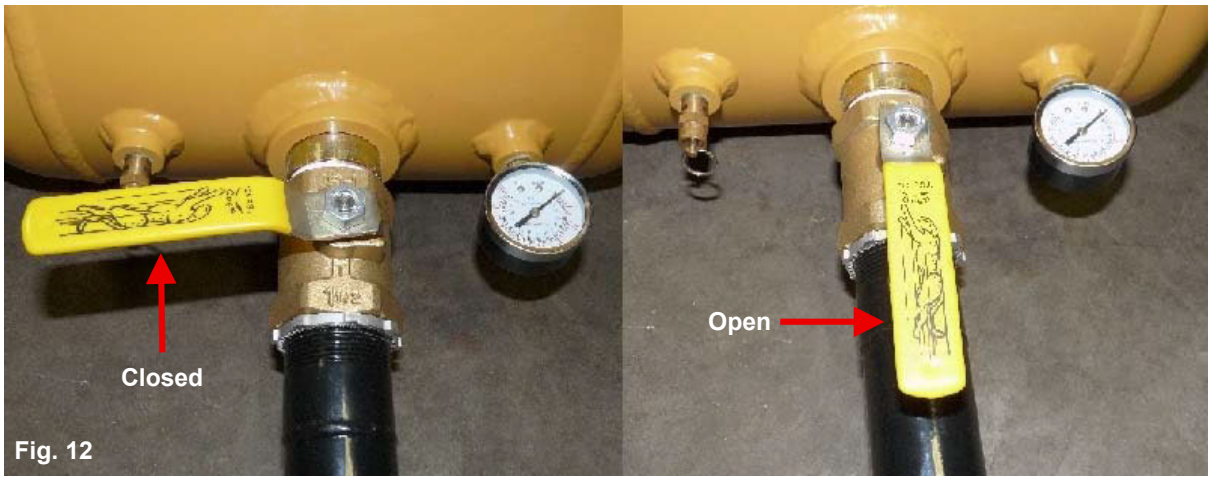


Fig. 12

Connect air line to the Whip Hose and open valve inlet. Remember, you will be closing the whip hose valve shortly after the bead is seated.


Fig. 13

Firmly hold Cheetah tank as shown in Fig. 13.

The Cheetah tank blasts air at a high rate so body positioning is important.

Just as important is footwear, eye wear and proper noise protection.

Gloves are recommended and you must keep your hands and fingers free from the bead Seating area.

Do not wear loose clothing.

With experience you'll recognize filling the tank to capacity isn't necessary. The amount of air depends on the tire, most tires can be seated between 40 PSI - 90 PSI

INSTRUCTIONS (CONTINUED)

Point the threaded barrel down into the tire as shown in Fig. 14. Use the channel on the nozzle to *grab* the rim. Lean for-ward slightly to hold it in position. Gather your footing, hold one hand onto the Cheetah handle and the other on the Manifold Valve Lever.

Fully turn the Lever releasing all the air into the tire, seating the bead.

Remove whip hose locking chuck from valve stem and replace valve stem core.

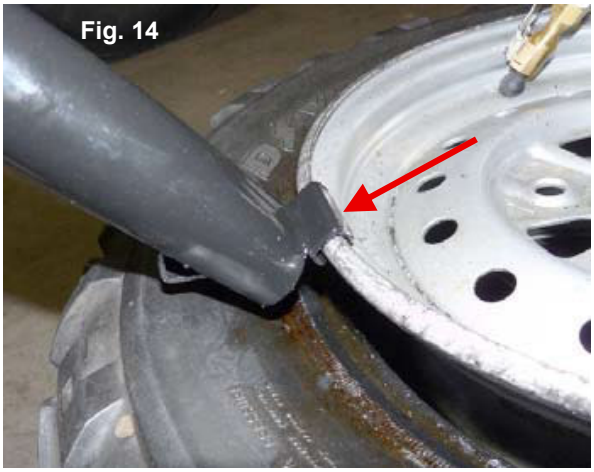


Fig. 14

Make sure the valve core is firmly tightened in-place and proceed to inflate the tire to manufacturers tire pressure requirements.

Check for leaks. If none are present, place valve stem cap on valve stem and wipe off excess lubricant. If there are leaks, address them and repeat the process.

Until an operator becomes familiar with seating a tire, several attempts may be necessary.

One important factor is to aim the threaded barrel into the tire directly. Generally speaking this is at about 45 degrees but you'll note it can vary from one tire to another.

MAGNUM1 - Optional Difficult wheels? Use the Magnum1 in Fig. 15.

Remove Threaded Barrel and replace it with the Magnum1.

Tighten it and use just like the Threaded Barrel.

The arced tube has holes in it for direct air flow into the tire

Fig. 15

TI-87 Shelf
(Wall Mounted)

MAINTENANCE AND REPLACEMENT RECOMMENDATIONS

MAINTENANCE

Daily: Inspect the pressure gauge (Part # 01.106) and Safety Release Valve (Part #05.102). Visually inspect the exterior of the tank for rust or deterioration.

Every six (6) months: Visually inspect the interior of the tank for rust or deterioration.

Discontinue use of tanks should any of the maintenance items need service. Contact your Distributor or TSISSG at 800-223-4540 or 602-437-5020 for replacement parts or units.

REPLACEMENT RECOMMENDATIONS

Our Cheetah tanks come with a decal recommending the replacement of the tanks after three (3) years of service. The recommendation is not standardized as there are various types of users and circumstances; including those who do not perform regular inspections and continue to use the units with damaged components. Please be advised it is only our recommendation to replace the tanks after three (3) years of service. Your regular inspections and good judgment should be the final determination of unit replacement.

The replacement recommendation is a safety-related estimate based upon input from our raw tank manufacturers regarding the special use that the tanks are subject to during their normal application in a shop environment. Depending on the frequency of use and care, the units can last longer. However, it would be prudent to replace the unit after a maximum of five (5) years of service for optimum user safety

SPECIFICATIONS

CH-05: 13" L x 18" W x 27" height; 30 lbs shipping weight.
CH-05AL: 13" L x 18" W x 27" H; 19 lbs shipping weight.

CH-10: 14" L x 20" W x 14" H; 46 lbs shipping weight
CH-10AL: 14" L x 20" W x 14" H; 29 lbs shipping weight

Pressure Gauge 01.106

Discharge Valve
CH-5: 02.102
CH-10: 03.102

Lock Nut
02.107

Threaded Barrel
CH-5: 02.103
CH-10: 03.103

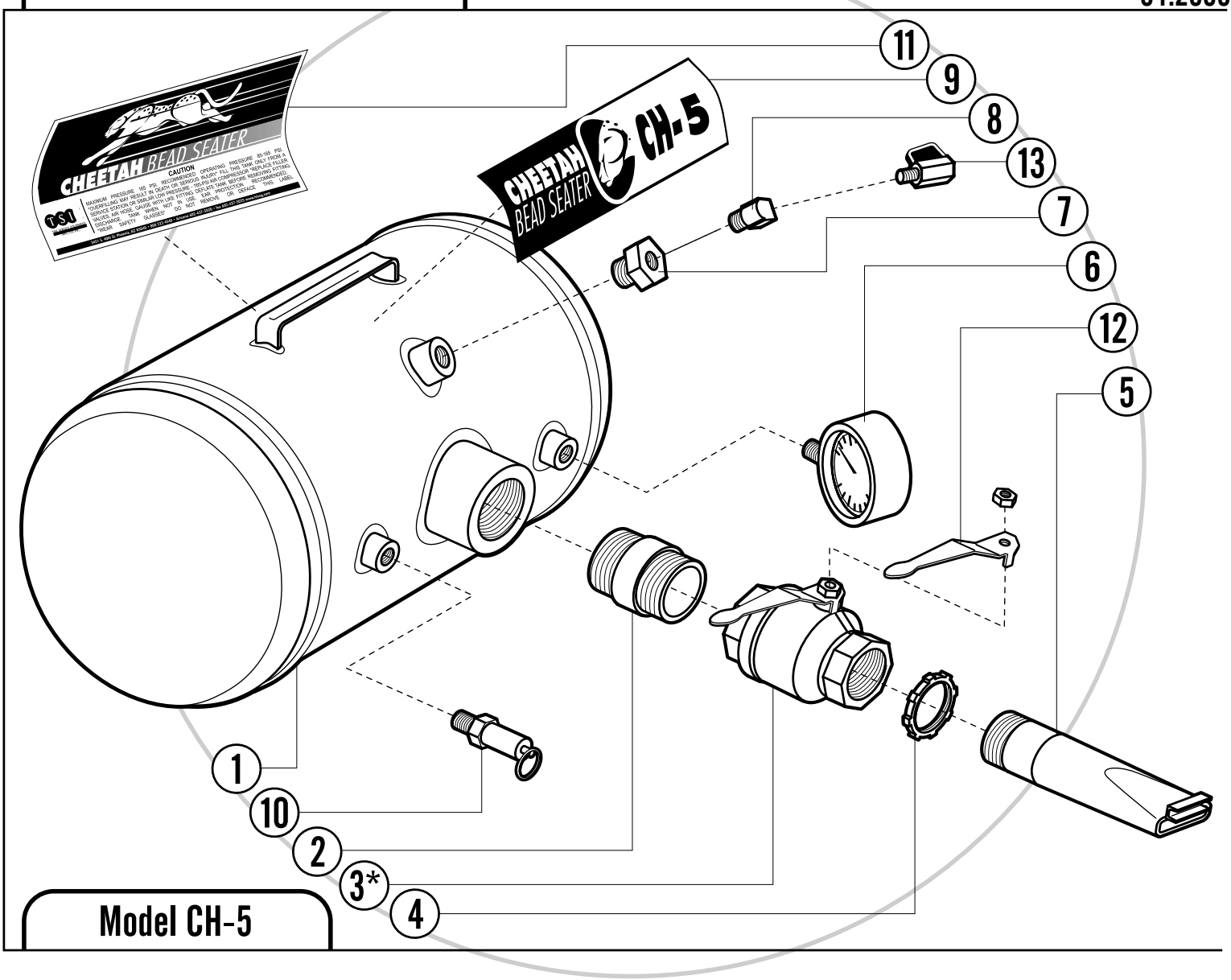
Ball Valve
04.103

Safety Valve
05.102

Replacement Parts

CHEETAH BEAD SEATING TOOL

04.2000



Model CH-5

Repair Parts & Prices

No.	Description	Part No.
1.	Airtank	02.101
2.	Pipe Nipple	01.104
3.*	Discharge Valve	02.102
4.	Lock Nut	02.107
5.	Threaded Barrel	02.103
6.	200 psi Gauge	01.106
7.	¾"-¼" Bushing	01.107
8.	90° NPT	03.104
9.	Decal (Small)	01.113
10.	Safety Release Valve	05.102
11.	Decal (Large)	01.112
12.	Handle & Nut Only	01.230
13.	Ball Valve	04.103

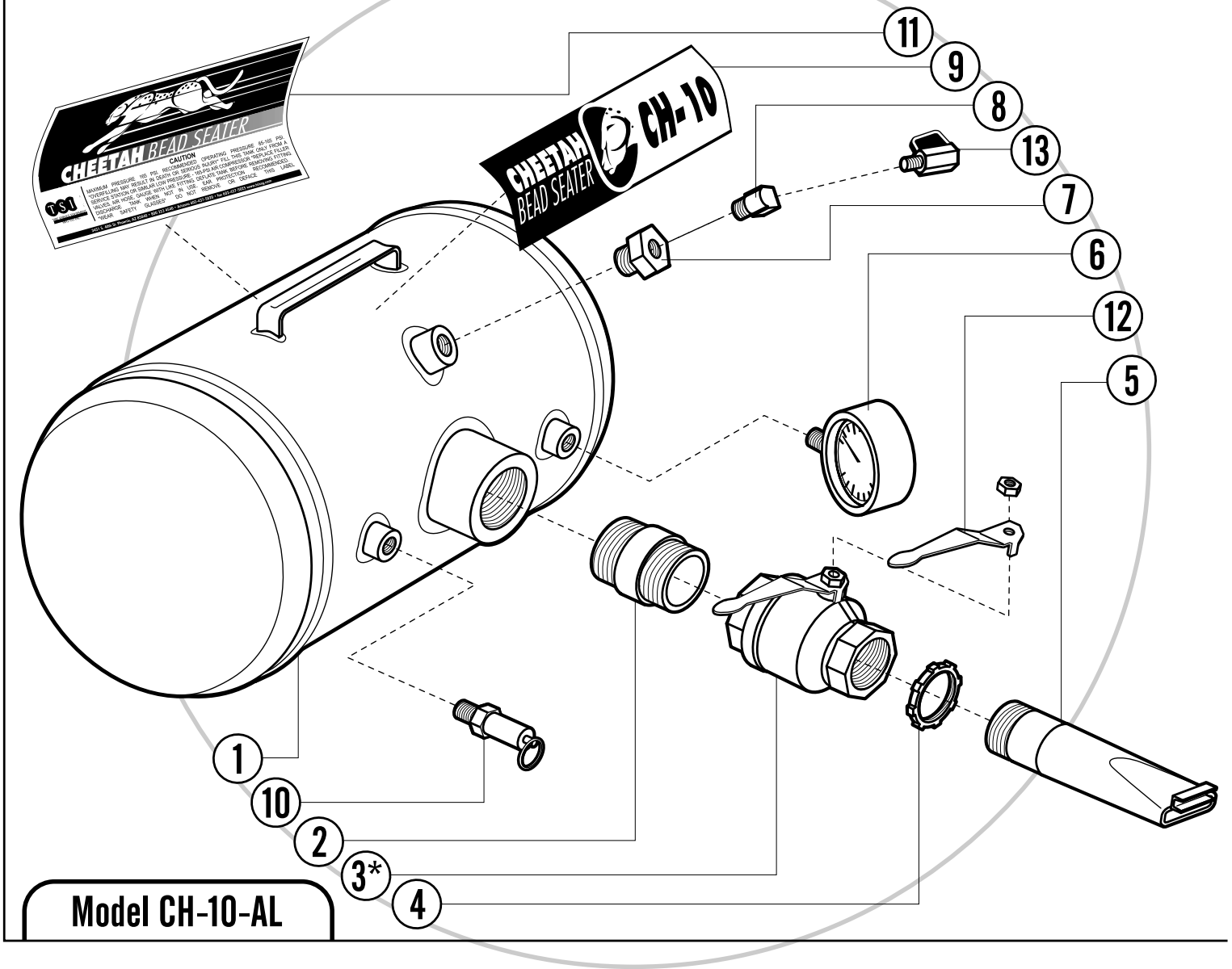
*Includes Handle

Order parts from your distributor or jobber. When ordering parts always give the following information: *Part Number, Description and Serial Number of Your Machine.*

REMINDER: Always exercise caution when using compressed air.

CHEETAH BEAD SEATING TOOL

07.2001



Model CH-10-AL

Repair Parts & Prices

No.	Description	Part No.	No.	Description	Part No.
1.	Airtank	03.101AL	8.	90° NPT	03.104
2.	Pipe Nipple	02.104	9.	Decal (Small)	01.113
3.*	Discharge Valve	03.102	10.	Safety Release Valve	05.102
4.	Lock Nut	03.107	11.	Decal (Large)	01.112
5.	Threaded Barrel	03.103	12.	Handle & Nut Only (Specify Color)	01.230
6.	200 psi Gauge	01.106	13.	Ball Valve	04.103
7.	¾"-¼" Bushing	01.107	Not Shown	Magnum II Barrel (Optional Accessory)	03.106

*Includes Handle

Order parts from your distributor or jobber. When ordering parts always give the following information: *Part Number, Description and Serial Number of Your Machine.*

REMINDER: Always exercise caution when using compressed air.

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Warranty Statement & Return Policy

Warranty & Workmanship you can depend on.

TSISSG products are designed and developed by experts in their respective industries. Our passion for designing and testing is second only to our drive for creating industry innovations and real world solutions which our customers can depend upon. With over 25 years of manufacturing experience we maintain the ability to provide competitive prices while employing and manufacturing in the USA. We are the manufacturer of the majority of our products so taking pride in workmanship and standing behind each and every product is not just our claim but our uncompromising responsibility.

TSISSG 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 TSISSG 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 Monticello, MN or to a repair facility authorized by TSISSG.

Return Policy:

!!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.

TSI SSG
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