



# INSTRUCTION MANUAL & PARTS BREAKDOWN



**23800**

**CHEETAH™ Tank Bead Seater**

**5 Gallon, Steel Tank**



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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 23800 CHEETAH™ Bead Seater accommodates wheels from 4 to 24 inches to bead-seat the tire to the rim flange.  
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

### 23800: Primary Features



The 23800 is for passenger vehicle and light truck tires.

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.



Whip Hose  
PN 01.109

CH-ACC Kit



Tire Wedge  
PN 01.110



Tri Stand  
PN 01.111



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## 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 23800 CHEETAH™ 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 weep 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.

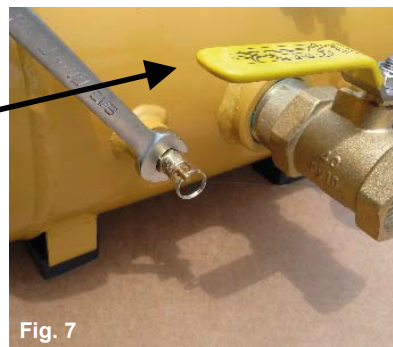


Fig. 7

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.



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## 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 Tri 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 Tri Stand.

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



Fig. 9

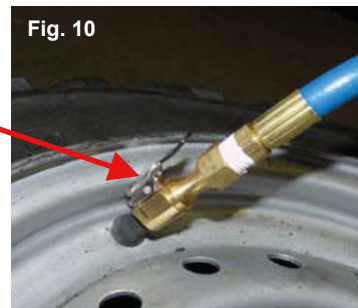


Fig. 10

Connect  
Locking  
Chuck  
to valve  
stem

**NEVER TRANSPORT OR  
STORE A CHARGED TANK**

As shown in Fig. 9 & later in Fig. 11, positioning a wheel on the Tri 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.

Using a Tire Wedge (page 2) can also accomplish a near similar result.

See Fig. 11 for a better look at the slope of the Tri 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.

*Keep in mind once you seat the bead you'll need to be aware of how fast air is entering the tire through the Whip Hose. At some point you will need to close the valve to stop filling the tire.*

Close Discharge Valve handle (Fig. 12) on tank. Connect air line to the Fill Valve. Make sure the valve is open. Close valve once it's filled and disconnect the air line.

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

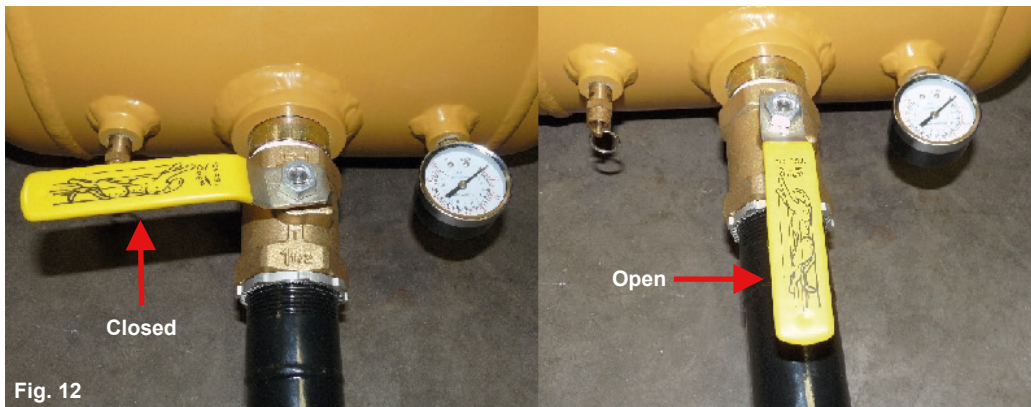


Fig. 12

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, eyewear 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 always necessary. Some tires can be seated with as little as 20 PSI. Most, when using the proper technique, Tri-stand and lubricant can be seated using 40-60 PSI.



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## 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 forward 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 and seating the bead.

Remove Whip Hose Locking Chuck from valve stem and replace valve stem core.

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.

It isn't unusual taking several attempts seating a tire bead until an operator becomes familiar with this process. Once some experience is gained the success rate will increase greatly.

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.





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## SPECIFICATIONS

The 23800 weights 31 pounds packaged. Air pressure capacity is 120 PSI.

Below are parts that come with the unit. For replacement part numbers are listed.



Pressure Gauge  
01.106



Discharge Valve  
02.102



Lock Nut  
02.107



Threaded Barrel  
02.103



Ball Valve  
04.103



Safety Valve  
05.102



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23800  
(5 gal tank)