



TIRE SERVICE INTERNATIONAL

# CH-22 Small Tire Changer

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**Read this manual before operating**

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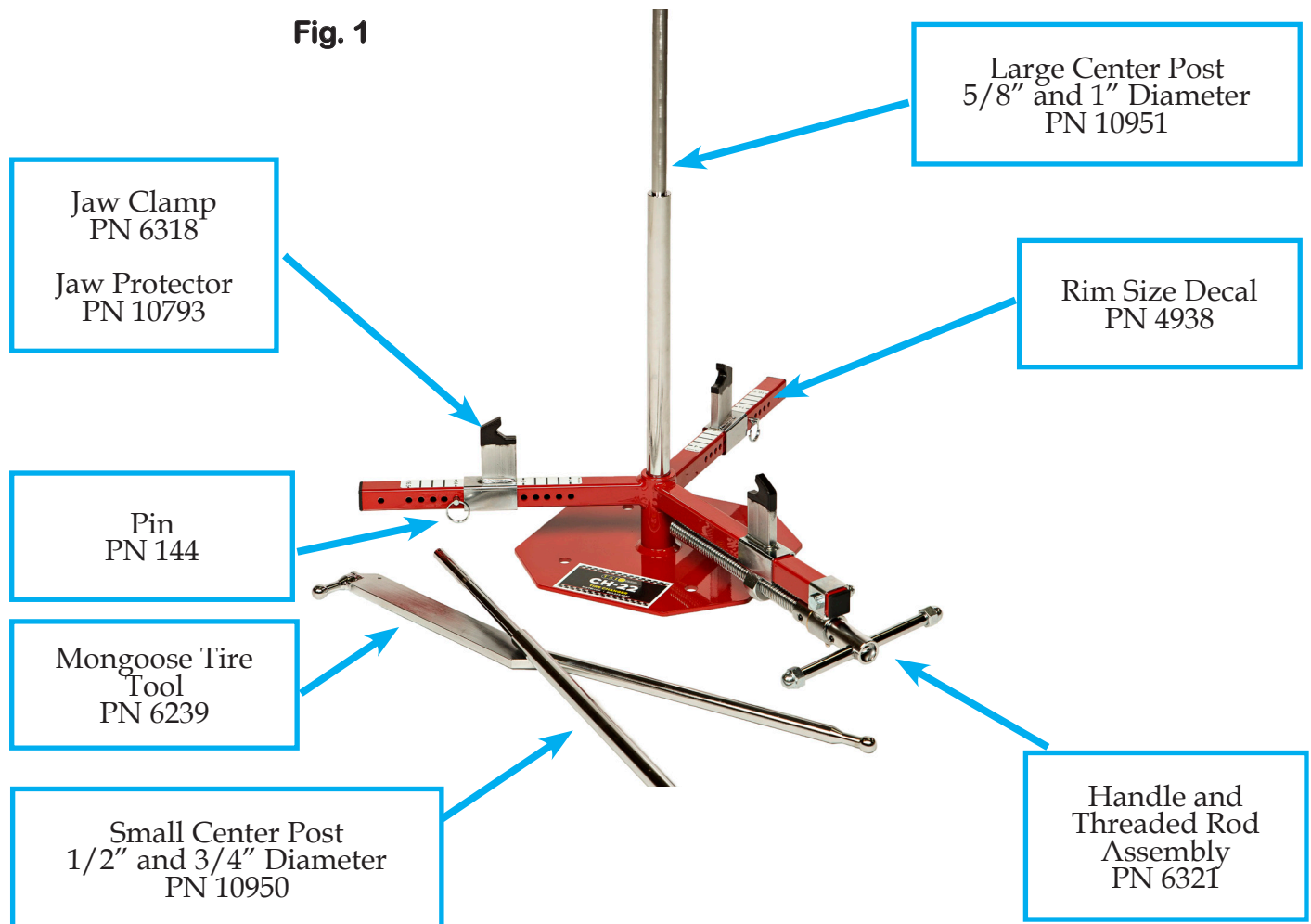
# Notes and Safety Requirements

1. Remove contents from box and assemble as shown below.
2. Read and follow instructions for optimum use.
3. The CH-22 Small Tire Changer accommodates tires ranging from 4" to 16.5" in diameter. This is made possible by using different center posts and varying the position of the jaw clamps.
4. With the assortment of other available options, the Small Tire Changer is given a broader range of tire size capabilities along with increasing a users operational flexibility.
5. Use a suitable tire and tube lubricant for mounting and removal.

## WARNING - WEAR SAFETY GLASSES

USE CAUTION! Machine can pinch fingers if not careful.

## Primary Features and Replacement Parts



# Set-Up Notes

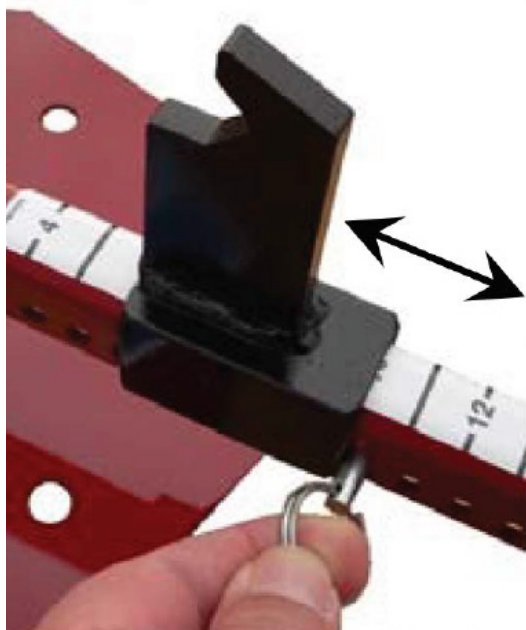
1. The CH-22 Multi-Tire Changer must be mounted to a solid, level surface, in a clean working environment and with necessary clear access around the unit.
2. TSI has developed an optional Stand and Floor Plate which assemble into a convenient package to raise the CH-22 for better handling, provide a tire Bead Breaker and include a stable platform (see page 7).
  - A. The CH-23 Stand raises the CH-22 to a good working height, provides a very handy Bead Breaker and tool storage.
  - B. The Floor Plate (PN 6192) provides a non-slip surface for the technician.
  - C. Assemble the three items and then bolt them to the floor
3. Loosen the tire bead before using the CH-22 Multi-Tire Changer

# Operating Instructions

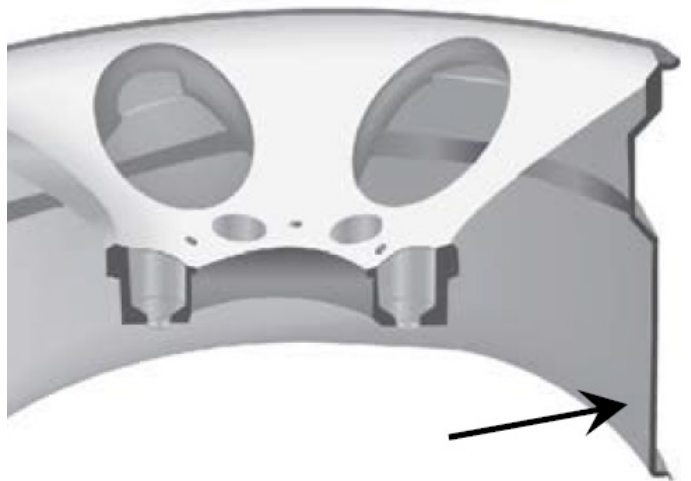
Determine the tire size being serviced and set the jaw clamps (see Fig. 2) accordingly.

Put the pins in matching holes on the two arms with the free-moving jaw clamps. Slide the jaw clamps against the pins.

**Fig. 2**



**Fig. 3**



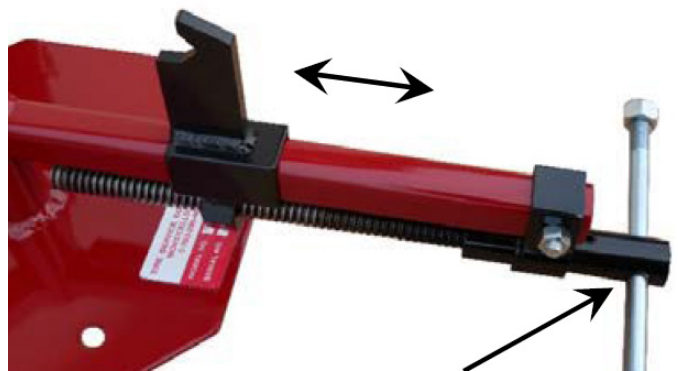
For best results, have the longer area of the rim facing down for the jaw clamps. (See Fig. 3)

Most the time the valve stem will be up and accessible. If not, mount the tire and later flip it over to connect an air hose to the valve stem for adding air.

# Operating Instructions

Adjust the moveable jaw clamp using the threaded rod assembly (see Fig. 4) so the tire flange clears each of the jaws. Ideally the rim should be centered over the center hole on the Tire Changer.

**Fig. 4**



Before tightening the rim, determine the largest center post to fit in the wheel hole (see Fig. 5).

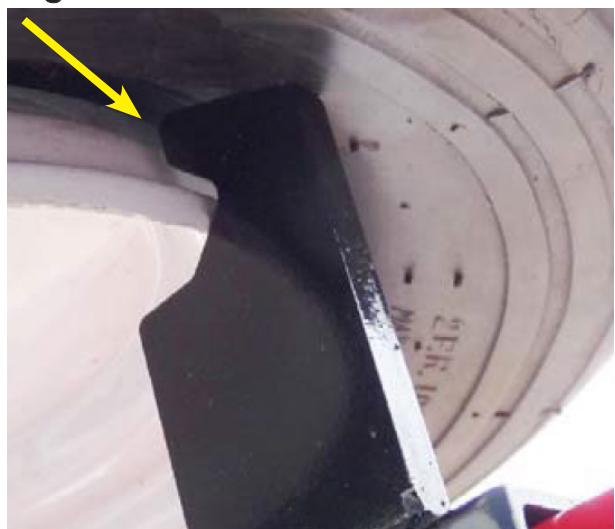
Each post has two sizes.

**Fig. 5**



Lubricate the tire and entire rim flange area around the tire before mounting or dismounting the tire (see yellow arrow in Fig. 5). Be sure to use lubricant intended for tire and rim.

**Fig. 6**



Make sure to secure the edge of the rim and tighten the adjusting clamp to secure the wheel.

# Operating Instructions

Make sure the tire bead is in the “drop center” of the rim for this process. Press and hold with one hand while prying the Mongoose Tire Tool around the center post.

Demount deflated tire using the “rod end” of the Mongoose Tire Tool (see Fig. 7). The ball-end is pushed under the top bead and rested on the rim as illustrated. While holding the Mongoose Tool against the center post with one hand, and lifting up on the tire with the other, rotate the tool full circle. Demount the bottom bead the same way.

Vary the angle of the Mongoose Tire Tool against the center post can achieve better results for each user based on the different rim or tire sizes and the shapes of each.

Mounting the tire uses the "flat-end" of the Mongoose Tire Tool (see Fig. 8). While applying pressure to the low side of the tire (always facing the operator) place the ball-end between rim and bead. With the flat side against the center post rotate the tool full circle for both bottom and top beads.

Remember to use lubrication on the rim and tire bead.

## Optional Demount Tool (PN 12489)

To protect chrome or aluminum rims from tool scrapes use this handy plastic accessory with the regular size Mongoose Tire Tool or the the Mini Mongoose Tire Tool.

Hold the Demount tab on the Mongoose Tire Tool. Push down and into the tire flange/bead area (see Fig. 9).

Fig. 7



Fig. 8



Fig. 8

Fig. 9



Fig. 9



# Operating Instructions

Insert the Demount tab into the rim flange area (see Fig. 10). With your other hand guide the tire beads into the “drop center” of the rim opposite the side where you've placed the Mongoose Tire Tool and demount tab.

USE LUBRICANT AND BE CAREFUL TO  
AVOID PINCHING FINGERS

Pry up on the Mongoose Tire Tool and demount tab in an arced motion so they rest on the rim as shown in Fig. 11. With the tool against the center post rotate them in a circular motion around the post until the tire is free from the rim.

Do this for both tire beads until the tire is completely demounted.

## **Optional Mount Tool (PN 12488)**

Fig. 12 shows optional PN 12488 Mount tab with the Mongoose Tire Tool. Place the tire over the rim and plunge the two tools over the edge of the rim (see Fig. 13). Use the Mongoose Tire Tool to pry against the center post in a circular motion to mount the tire.

Repeat for both sides of the tire. Upon mounting the tire wipe off the lubricant and clean the tools and tire.

Loosen the Handle and Threaded Rod Assembly to remove the tire.

**Fig. 10**



**Fig. 11**



**Fig. 12**



**Fig. 13**



# CH-22 Tire Changer and Options

Small Tire Changer  
CH-22



CH-22 shown  
mounted to  
OPTIONAL Stand  
and OPTIONAL  
Floor Plate  
(sold separately)

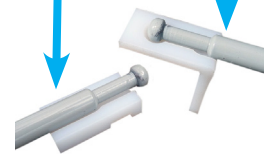


## Optional Items

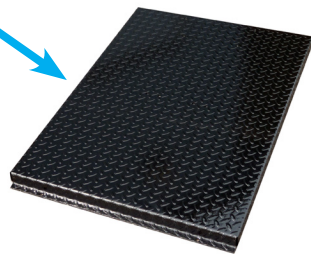
Optional Stand  
with bead breaker  
PN CH-23



Mongoose Tire Tool  
PN 12489 and 12488



Optional Floor  
Plate  
PN 6192



Mini Mongoose  
Tire Tool  
PN CH-4M



# 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. **!!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.



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