



TIRE SERVICE INTERNATIONAL

# TI-95

## Tire Inspector

### Air Operated Unit

buyTSI.com - 800.223.4540



**READ INSTRUCTIONS THOROUGHLY BEFORE OPERATING**

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## General Description

1. The TI-95 Tire Inspector is designed to inspect non-mounted tires from 13" to 24.5" in rim diameter using expanding rims sold separately.
2. The TI-95 allows the operator to inspect tires for sidewall, tread and bead leakage on non-mounted tires.
3. The tire and hub assembly rotate easily for quick and easy inspection and the convenient control panel is designed for ease of operation.
4. The TI-95 has a rigid base and stand that supports all available rim sizes mounted on the hub assembly.

## Safety Requirements

1. Only personnel trained in operating the TI-95 Tire Inspector should operate it.
2. Use general safety precautions at all times when handling tires, the expanding hub and pressurized air.
3. Make sure all fittings, hoses, valves and filters are properly fastened and secured before operating unit.
4. Using protective eye and footwear is recommended.

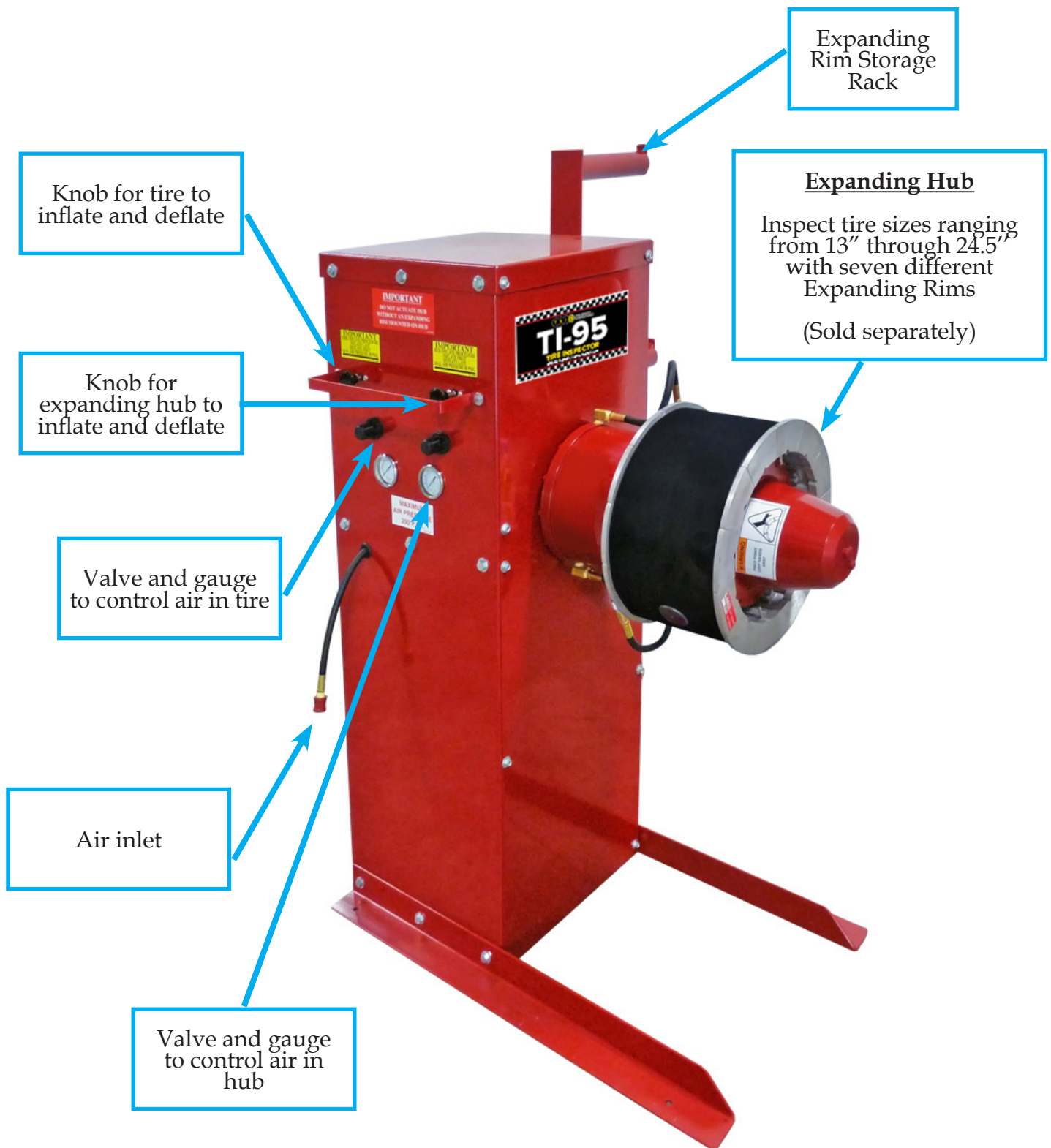
## Installation Requirements

1. Suggested air supply is 125 psi.
2. No electricity is required.

## Set-Up Instruction

1. Fasten unit to a flat concrete slab or surface with anchor bolts. Unit can tip if not secured.
2. To properly operate and maintain the Expansion Hub used on this machine refer to the Operators Manual & Repair Parts Lists for Expansion Hub and Assembly.

# Main Components



# Operating Instruction

1. Connect air supply to 1/4" hose fitting. All pressures are pre-set for 30 PSI for Tire Pressure and 80 PSI for Expanding Hub and Rim.
2. Select the correct size Expansion Rim and mount onto Expansion Hub.
3. Clean both Tire Bead inside diameter flanges.
4. Use an oil soap on the Expanding Rim Belt to assist tire to slide into position.
5. Place tire on the Expansion Rim
6. Pull the Hub Knob to expand the Expansion Rim.
7. Inflate the Tire by pulling the Tire Knob.
8. Check and test tire.
9. When done, push the Tire Knob to deflate tire.
10. When the tire is deflated push the Hub Knob to collapse the Expansion Hub.
11. Remove tire.
12. Clean the Expansion Rim. Make sure no debris is left on Expansion Rim before placing another tire on it.

**Caution: Be careful when inflating tires!**  
**TSI assumes no responsibility and is not liable**  
**if tires explode or come off of this rim assembly**  
**because of excessive air pressure.**

# Maintenance

The TSI Hub assembly is designed and manufactured for long-term trouble-free operation. It is a time and labor saving unit that will deliver many years of service if a reasonable cleaning and maintenance schedule is practiced.

Caution: Before performing any disassembly disconnect air supply to machine. Disconnect air hoses connected to the air swivel assembly.

## EXPANDING RIMS

The expanding rim assembly is a flexible unit comprised of more than two dozen individual pieces, held together by a natural rubber belt. Due to the movable parts on these expanding rims caution must be taken in handling all rims. Rough handling can cause rims to come apart and or be damaged. (DO NOT DROP THE EXPANDING RIMS, THEY WILL COME APART. WARRANTY DOES NOT COVER REASSEMBLY OF THE RIMS)

Each segment or "shoe" is hand-fitted and then machined to precise tolerances. They are aluminum cast shoes and as such require much care when changing and transporting. NOTE: Whenever a rim assembly appears to be sloppy or wobbles when placed on the floor, it is time to replace the belt. These, as well as all other parts, are available.

General maintenance on these rims consists of blowing the dust or dirt off of the rubber belt periodically using about 50lbs to 75lbs air pressure. Keep the belt lightly lubricated with oil soap to prolong belt life. DO NOT USE GREASE OR ANY OTHER PETROLIUM BASED LUBRICANTS.

## GENERAL MAINTENANCE

The frequency in which these procedures are needed may depend on humidity and or moisture levels in your compressed air supply.

DO NOT use regular types of grease, Lubriplate, WD-40 on the Hub. Use only water resistant Marine Grease; TSI Part# 10787 or equivalent.

With a rim installed on hub assembly, cycle the hub and rim assemblies 12-20 times. This will allow the Marine Grease to work into all areas. The unit should cycle smoothly.

# Scheduled Maintenance

## Daily

1. Lube belt with oil soap tire lube as needed
2. Check the four expandable rim locks to ensure they are in the locked position
3. Look inside the hub to see the locking tab is engaged

## Weekly

1. In addition to the daily maintenance the following maintenance is recommended weekly.
2. Detach 2 Air Supply Hoses and remove expandable rim
3. Remove paddles
4. Clean out the paddle slots using air pressure
5. Use marine grease to lubricate the paddle slots
6. Clean each paddle
7. Lubricate the bottom of each paddle
8. Reassemble
9. Reinstall the rim, reconnect air hoses and locking tabs.
10. Grease the main shaft

## Monthly

1. After completing the daily and weekly recommended maintenance, the following procedures are recommended every 1-6 months depending on service.
2. Remove the hub outer housing
3. Remove internal cone
4. Clean the inside of the housing cylinder- Use brake cleaner to remove grease residue. Follow with scotch bright pad
5. Clean the cone- Use brake cleaner to remove grease residue. Follow with Scotch Bright pad.
6. Lubricate the inside of the cylinder- Use marine grease
7. Lubricate the outside of the cone-Use marine grease
8. Lubricate the shaft
9. Reassemble the Unit

# Repair Parts List

Item	Description
10676	In-Line Water Extractor
11554-160	Gauge, 2" x 160 PSI x 1/4 NPT
11554-60	Gauge, 2" x 60 PSI x 1/4 NPT
15.190	Regulator - Air PSI 125 MAX
252.190	Valve Mini Push Pull
4885	Paddle, plain Expandable Hub
4900	Cylinder, Exp Hub Assy.
4926	Spring, Extension 28"
905	Bushing 3/4 id x 1 1/2 od Brass
91.107	Bearing, pillow block 2 inch Shaft
5844	Paddle, lock assy complete
4886	Locking Paddle Blanks Only





# 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](http://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.

**!!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](http://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.

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