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> Uharbour 4 Tire Inflation System User Manual

Uharbour TIS001

Uharbour 4 Tire Inflation System User Manual

Model: TIS001

1. INTRODUCTION

The Uharbour 4 Tire Inflation System is an advanced tool designed to streamline tire maintenance for vehicles with up to a 125-inch wheelbase. This system allows for efficient and precise inflation, deflation, and equalization of pressure across all four tires simultaneously, saving valuable time and effort. It ensures optimal tire performance, extends tire life, and enhances fuel efficiency by maintaining balanced tire pressure.



Figure 1: Uharbour 4 Tire Inflation System components.

2. WHAT'S IN THE BOX

Upon opening your Uharbour 4 Tire Inflation System package, you will find the following components:

- Digital pressure gauge
- Air manifold
- Quick connector
- Air hoses (designed for vehicles up to 155" wheelbase)
- Air valve
- Durable storage bag
- Teflon Tape

Package Includes:

- Digital Pressure Gauge*1(with batteries)
- 4 Tire inflation hose kit
- Storage Bag*1
- Teflon Tape*1



Figure 2: Package contents of the 4 Tire Inflation System.

Unboxing Video

Video 1: An unboxing of the Uharbour 4 Tire Inflation System, showing the contents and initial impressions of the product and its carrying bag.

3. SETUP

Follow these steps to set up your Uharbour 4 Tire Inflation System:

- 1. Assemble the Main Unit:** Connect the digital pressure gauge to the air manifold. Ensure all connections are secure. Use Teflon tape on threaded connections for an airtight seal if necessary.
- 2. Attach Hoses:** Connect the two sets of air hoses to the air manifold using the quick connectors. Each set of hoses is designed to reach two tires.
- 3. Connect to Air Source:** Attach the main quick connector from the air manifold to your air compressor. The system is compatible with standard 1/4 IM male couplers found on popular air compressors like Smittybilt, Viaire,

and Warn Powerplant.

4. **Prepare for Use:** Ensure the slide valve on the main unit is in the correct position for inflation or deflation as desired.

Your Perfect Off-Road Companion



Figure 3: Connecting the system to an air compressor.

Lock-On Air Chuck



Figure 4: Detail of the lock-on air chuck for secure tire connection.

Slide Valve

Easily switch between Inflation & Deflation

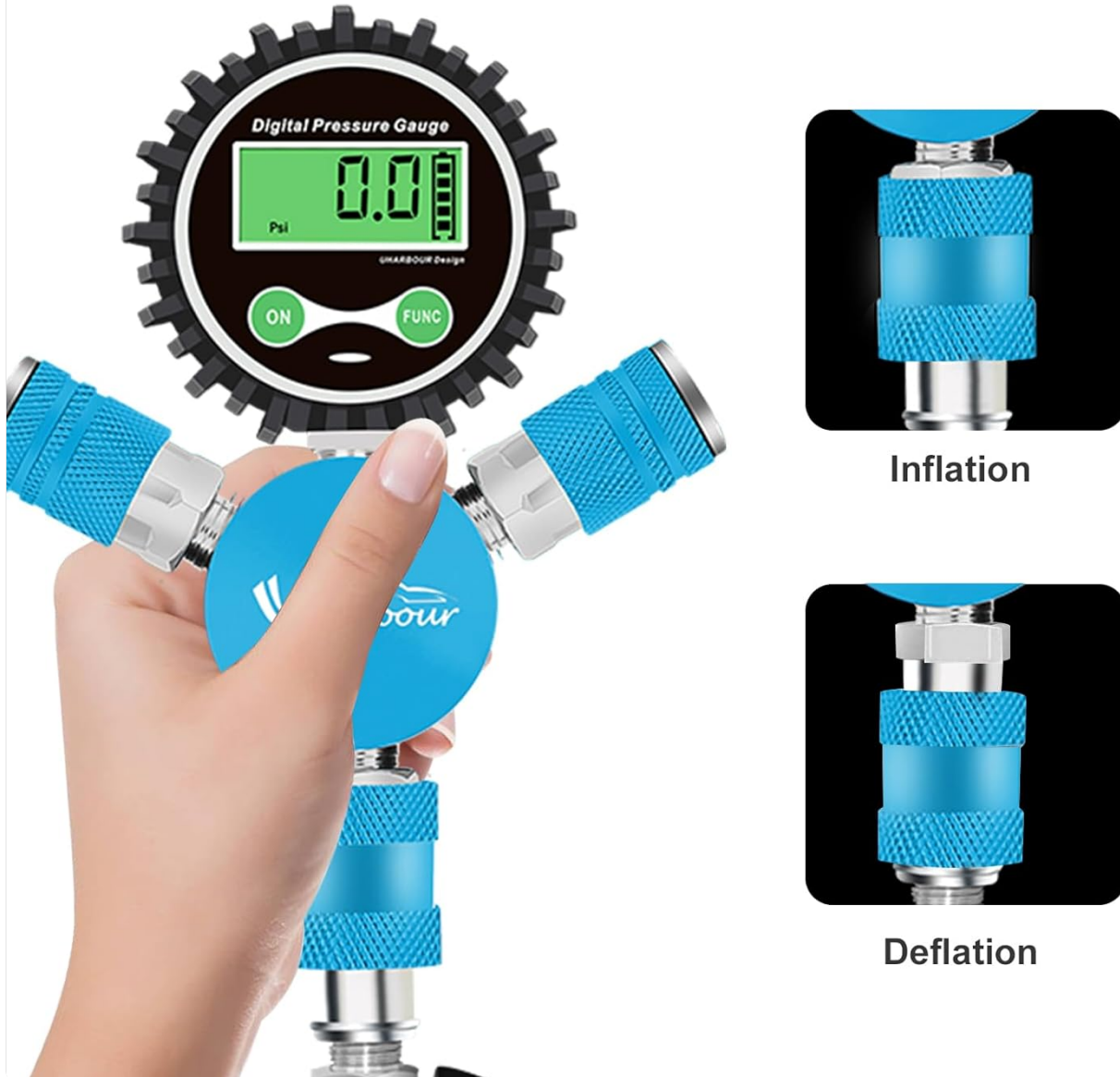


Figure 5: The slide valve mechanism for inflation and deflation control.

4. OPERATING INSTRUCTIONS

The Uharbour 4 Tire Inflation System simplifies tire pressure management. Always ensure the digital pressure gauge is turned on before connecting to the air valve for accurate readings.

4.1. Inflating Tires

1. **Connect to Tires:** Attach the air chucks to all four tire valves. The lock-on design ensures a secure connection without air leakage.
2. **Set Slide Valve:** Push the slide valve on the main unit upwards for inflation.
3. **Activate Air Compressor:** Turn on your air compressor. The digital gauge will display the real-time pressure of all connected tires, which will equalize as air flows.
4. **Monitor Pressure:** Continue inflating until the desired PSI is reached. The system allows for rapid inflation,

typically taking less than 2 minutes to inflate all four tires from 20 to 40 PSI.

5. **Disconnect:** Once the target pressure is achieved, turn off the air compressor, then disconnect the air chucks from the tire valves.

4 Tire Inflation System

Inflate, deflate, and equalize pressure in all 4 tires, all at once

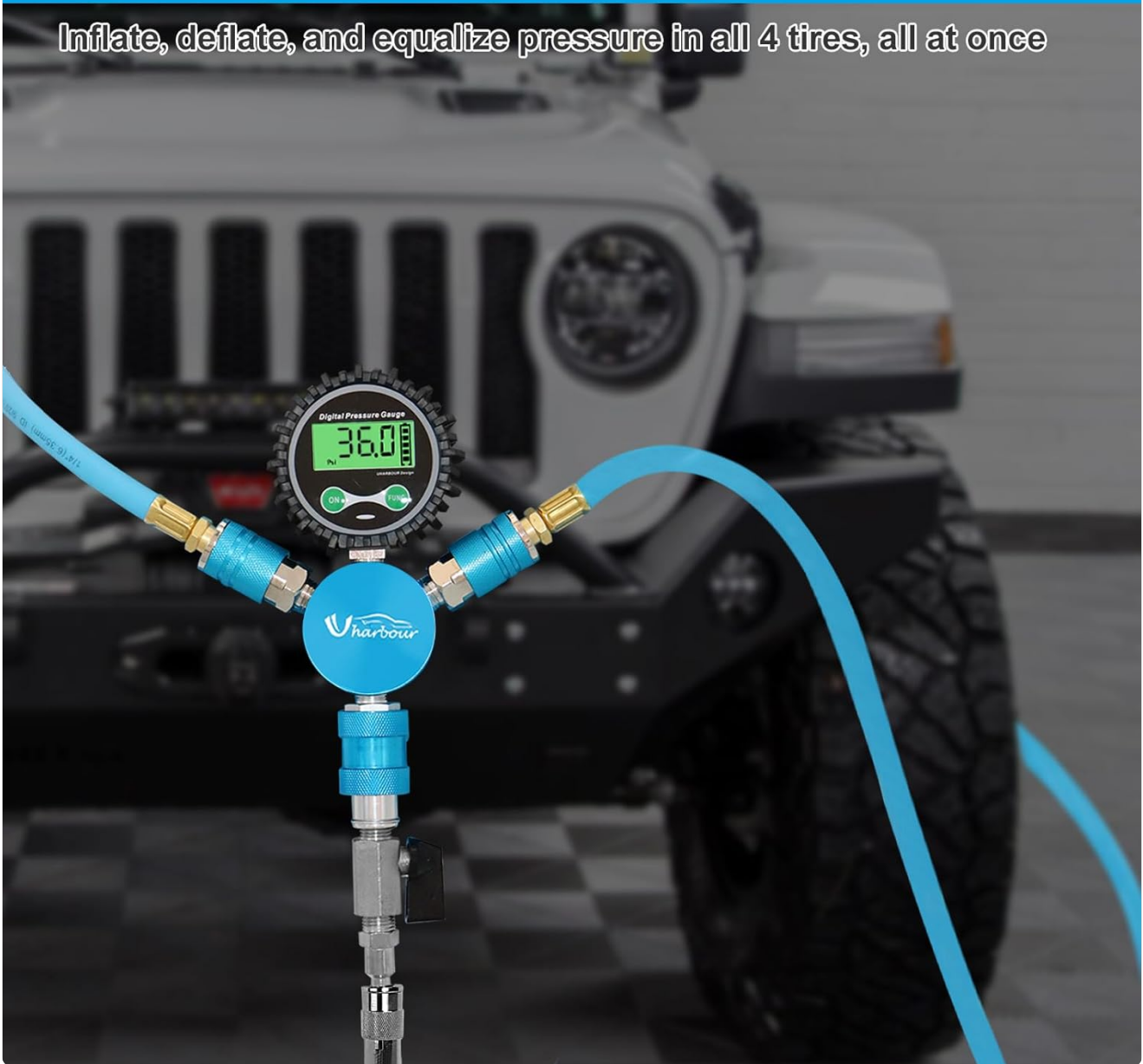


Figure 6: System connected to a vehicle for tire inflation.

Inflation Speed Demonstration

Video 2: A demonstration of inflating four tires from 20 to 40 PSI in approximately 2.5 minutes using the Uharbour system.

4.2. Deflating Tires

1. **Connect to Tires:** Attach the air chucks to all four tire valves.
2. **Set Slide Valve:** Gently pull the slide valve on the main unit downwards to release air. The digital gauge will show the decreasing pressure.
3. **Monitor Pressure:** Release air until the desired PSI is reached. The system ensures all tires deflate equally.
4. **Disconnect:** Once the target pressure is achieved, push the slide valve back to the neutral position (or upwards to stop deflation), then disconnect the air chucks from the tire valves.

Inflation and Deflation Demonstration

Video 3: A comprehensive demonstration of both inflating and deflating four tires using the Uharbour 4 Tire Inflation Kit.

5. MAINTENANCE

To ensure the longevity and optimal performance of your Uharbour 4 Tire Inflation System, follow these maintenance guidelines:

- **Cleaning:** After each use, wipe down the hoses, manifold, and digital gauge with a clean, damp cloth to remove any dirt or debris.
- **Storage:** Store the system in its durable storage bag in a cool, dry place away from direct sunlight and extreme temperatures. Ensure hoses are neatly coiled to prevent kinks.
- **Connections:** Periodically check all quick connectors and threaded fittings for wear or damage. Replace any worn parts to maintain an airtight seal.
- **Digital Gauge Battery:** The digital pressure gauge is battery-powered. If the display becomes dim or unresponsive, replace the batteries as needed.
- **Teflon Tape:** Reapply Teflon tape to threaded connections if you notice any air leaks.

6. TROUBLESHOOTING

If you encounter any issues with your Uharbour 4 Tire Inflation System, refer to the following common troubleshooting tips:

Problem	Possible Cause	Solution
Air Leakage	Loose connections, worn O-rings, insufficient Teflon tape.	Tighten all connections. Inspect and replace worn O-rings. Reapply Teflon tape to threaded fittings.
Digital Gauge Not Displaying	Dead batteries, gauge not turned on.	Press the ON button. Replace batteries in the digital gauge.
Uneven Tire Pressure	System not properly connected to all tires, or a blockage in one of the hoses.	Ensure all air chucks are securely locked onto tire valves. Check hoses for kinks or obstructions.
Slow Inflation/Deflation	Air compressor not powerful enough, or partial blockage in hoses.	Ensure your air compressor meets the required specifications. Check hoses for any blockages.
Main Unit Gets Warm	Normal operation during prolonged use.	This is normal. Exercise caution when handling the unit after extended use.

7. SPECIFICATIONS

Feature	Specification
Brand	Uharbour
Model Number	TIS001
Item Weight	7.15 pounds
Product Dimensions	1.5 x 1.5 x 2.3 inches
Country of Origin	China
Material	Metal
Number of Pieces	1 (complete system)
Wheelbase Compatibility	Up to 125" (product title states 125", image states 155", using 125" from title as primary)
UPC	753775965356

8. WARRANTY AND SUPPORT

For warranty information or technical support regarding your Uharbour 4 Tire Inflation System, please refer to the contact information provided with your product packaging or visit the official Uharbour website. Please retain your proof of purchase for any warranty claims.