Milton S-516

Milton S-516 Straight Foot Chuck Tire Inflator Gauge Instruction Manual

Model: S-516

1. Product Overview

The Milton S-516 Straight Foot Chuck Tire Inflator Gauge is a robust tool designed for accurate tire pressure measurement and inflation. It is engineered for durability and ease of use across various vehicle types, from automobiles to heavy-duty trucks.

Key Features:

- **Accurate Measurement:** Performance-tested and calibrated to measure 10-160 PSI in 2 lb. increments. Kilopascal (kPa) readings (80-840, 20 kPa increments) are also available via special order.
- **Dual Head Chuck:** Features two heads for enhanced accessibility to tire valves, including one parallel to the extension.
- **Lock-On Threads:** Both chuck heads are designed with lock-on threads, allowing for hands-free inflation once connected.
- **Durable Construction:** Made with heavy-duty materials and a cast aluminum inflator body for long-lasting performance, even under demanding conditions.
- **15-Inch Hose:** Provides extended reach and flexibility during use.
- **Magnifying Window Lens:** Equipped with a magnifying lens for a clear and full view of the pressure scale.
- **Replaceable Parts:** Both the gauge and valve cartridges are replaceable, extending the product's lifespan.

Figure 1: The Milton S-516 Tire Inflator Gauge, featuring a durable construction, a 15-inch hose, and a dual-head straight foot chuck.

2. Setup

Before using your Milton S-516 inflator gauge, ensure it is properly connected to an air compressor or air supply line.

1. **Connect to Air Supply:** Attach the 1/4" NPT air inlet of the inflator gauge to your air compressor hose. Ensure a secure connection to prevent air leaks.
2. **Inspect Components:** Verify that the 15-inch hose, dual-head chuck, and gauge are free from damage or obstructions.

Figure 2: An illustration detailing the robust features of the Milton S-516, including its full-swivel chuck, heavy-duty construction, and cast aluminum inflator body.

3. Operating Instructions

Checking Tire Pressure:

1. Ensure the tire is cool for the most accurate reading.
2. Remove the valve cap from the tire.
3. Press the appropriate head of the dual-head chuck firmly onto the tire's Schrader valve stem. The lock-on threads will secure the chuck in place.
4. Read the pressure indicated on the gauge through the magnifying window.
5. Remove the chuck and replace the valve cap.

Figure 3: A detailed view of the inflator gauge's magnifying window, clearly displaying PSI measurements.

Inflating Tires:

1. Connect the inflator gauge to the tire valve as described above.
2. Squeeze the trigger on the inflator handle to begin air flow into the tire.
3. Monitor the pressure reading on the gauge. Release the trigger periodically to get an accurate static pressure reading.
4. Inflate to the recommended PSI for your vehicle (refer to your vehicle's owner's manual or tire placard).
5. Release the chuck from the valve stem and replace the valve cap.

Special Note for Dual Head Chucks and Flat Tires:

If using a dual head type tire chuck with an inflator gauge and air escapes through the off-side once connected to a completely flat tire's Schrader valve, follow these steps:

1. Release the trigger and remove the inflator from the Schrader/tire valve.
2. Point the straight side of the outlet up into the air (ensure it is not pointed at anyone).
3. Squeeze the trigger, allowing air to flow. Gravity will cause the sealing valve to drop.
4. While air is still flowing, place the chuck end onto the Schrader/tire valve. Air will then begin to flow into the tire.

Dual head type tire chucks are generally unable to inflate a completely flat (zero air pressure) tire without this priming step, as the self-sealing valve requires some pressure to react and seal the unused side of the chuck.

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Video 1: This video demonstrates the features and proper usage of the Milton Analog Tire Inflator with Pressure Gauge and 15-inch hose, including how to connect it to a tire valve and read the pressure.

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Video 2: A demonstration focusing on the dual-head straight chuck feature of the Milton inflator, showing its design and how it connects to tire valves for efficient inflation.

4. Maintenance

Regular maintenance ensures the longevity and accuracy of your inflator gauge.

- **Cleaning:** Wipe down the inflator gauge with a clean, dry cloth after each use to remove dirt and debris. Avoid using harsh chemicals that could damage the materials.
- **Storage:** Store the inflator gauge in a clean, dry place away from extreme temperatures and direct sunlight.
- **Cartridge Replacement:** The gauge and valve cartridges are replaceable. If you notice a decrease in accuracy or persistent air leaks, these components may need to be replaced. Contact Milton customer support or an authorized dealer for replacement parts.

5. Troubleshooting

Common Issues and Solutions:

- **Air Escaping from Off-Side of Dual Head Chuck:** This typically occurs when inflating a completely flat tire. Refer to the "Special Note for Dual Head Chucks and Flat Tires" in the Operating Instructions section for the priming procedure.
- **Inaccurate Readings:** Ensure the chuck is firmly seated on the valve stem. If inaccuracies persist, the internal gauge cartridge may need replacement.
- **Slow Inflation/No Air Flow:** Check your air supply line and compressor for adequate pressure. Ensure the inflator trigger is fully depressed. If the issue continues, the valve cartridge within the inflator may be obstructed or damaged.
- **Air Leaks:** Inspect all connections, including the air inlet and the chuck-to-valve stem connection. Ensure the valve stem itself is not leaking. Replaceable valve cartridges can address leaks from the inflator's internal mechanism.

6. Specifications

Feature	Specification
Model Number	S-516
PSI Range	10-160 PSI
PSI Increments	2 lb.
kPa Range (Special Order)	80-840 kPa
kPa Increments (Special Order)	20 kPa
Threads	3/8-24
Air Inlet	1/4" NPT
Hose Length	15 inches
Construction Material	Heavy-duty construction, Cast Aluminum Inflator Body
Item Weight	1.6 ounces
Product Dimensions (L x W x H)	0.5 x 3.5 x 1.13 inches

7. Warranty & Support

For information regarding warranty coverage, replacement parts (such as gauge and valve cartridges), or technical support, please visit the official Milton Industries website or contact their customer service department.

Official Milton Industries Website: Milton Store on Amazon