

Stens 175-515

Stens 175-515 Solid Wheel Assembly User Manual

Model: 175-515

1. PRODUCT OVERVIEW

The Stens 175-515 Solid Wheel Assembly is a high-quality replacement wheel designed for various outdoor power equipment, including lawnmowers and garden machinery. This assembly features a 9x3.50-4 wheel size, a 3 1/4-inch hub, and a 5/8-inch bore size, ensuring compatibility with a range of applications. It comes with a smooth tread and a 4-inch rim size.

A key feature of this wheel is its **flat-proof design**, which significantly reduces costly downtime associated with punctures or air loss. Constructed with a specially formulated compound, it offers commercial durability and capacity, providing a cushioned ride for improved performance and operator comfort.



Figure 1: Stens 175-515 Solid Wheel Assembly. This image shows the black solid wheel with its white hub and smooth tread, ready for installation on compatible equipment.

This assembly is engineered to replace several OEM parts, including Carlisle 11-5935S2-5, 457141; Grasshopper 483803, 603924, 603971; and Woods 70944, 73725, among others. Always verify compatibility with your specific equipment model before installation.

2. SETUP AND INSTALLATION

Proper installation of the Stens 175-515 Solid Wheel Assembly is crucial for optimal performance and safety. This wheel is designed as a direct replacement for existing wheel assemblies on compatible equipment.

2.1 Safety Precautions

- Always wear appropriate personal protective equipment (PPE), such as gloves and safety glasses.
- Ensure the equipment is turned off, cooled down, and disconnected from any power source (e.g., spark plug wire removed for gasoline engines) before beginning work.

- Secure the equipment to prevent accidental movement during installation.

2.2 Installation Steps

1. **Prepare Equipment:** Position the equipment on a stable, level surface. If necessary, lift and support the equipment using appropriate jacks or stands to access the wheel assembly.
2. **Remove Old Wheel:** Locate the fasteners (nuts, bolts, or clips) securing the existing wheel assembly to the axle. Carefully remove these fasteners and slide the old wheel off the axle. Note the orientation of any spacers or washers.
3. **Inspect Axle:** Clean the axle and inspect it for any damage, rust, or debris. Ensure the axle is straight and free of obstructions.
4. **Install New Wheel:** Slide the Stens 175-515 Solid Wheel Assembly onto the axle. Ensure the hub and bore align correctly with the axle. If there were any spacers or washers, re-install them in their original positions.
5. **Secure Wheel:** Re-install the fasteners removed in Step 2. Tighten them securely according to the equipment manufacturer's specifications. Do not overtighten.
6. **Final Check:** Lower the equipment (if lifted) and check that the new wheel spins freely and is securely attached. Ensure there is no wobble or excessive play.

For specific torque specifications or detailed instructions, refer to your equipment's original service manual.

3. OPERATING CONSIDERATIONS

Once installed, the Stens 175-515 Solid Wheel Assembly operates as a standard wheel for your equipment. Its flat-proof design means you do not need to monitor or maintain air pressure, providing consistent performance and eliminating the risk of flats during operation.

The specially formulated compound and cushioned ride contribute to smoother operation, which can enhance the overall user experience and reduce vibration during use. Always operate your equipment according to its manufacturer's guidelines and safety instructions.

4. MAINTENANCE

The Stens 175-515 Solid Wheel Assembly is designed for low maintenance due to its flat-proof construction. However, regular inspection and basic care will extend its lifespan and ensure continued reliable performance.

4.1 Routine Inspection

- **Visual Check:** Periodically inspect the wheel for any signs of wear, cracks, or damage to the tire or rim.
- **Hub and Bearings:** Check the hub area for any looseness or unusual play. The bearing race is installed in the hub and is designed for durability, but excessive vibration or noise could indicate an issue.
- **Fasteners:** Ensure all bolts, nuts, or clips securing the wheel to the axle remain tight. Re-tighten if necessary.

4.2 Cleaning and Storage

- **Cleaning:** Clean the wheel assembly as needed to remove dirt, grass clippings, or debris. A damp cloth is usually sufficient. Avoid harsh chemicals that could degrade the rubber compound.
- **Storage:** When not in use for extended periods, store the equipment in a clean, dry environment, away from direct sunlight and extreme temperatures.

5. TROUBLESHOOTING

While the Stens 175-515 Solid Wheel Assembly is designed for reliability, minor issues can sometimes arise. Here are some common troubleshooting tips:

5.1 Wheel Does Not Fit Correctly

- **Verify Specifications:** Double-check the wheel's specifications (wheel size, hub, bore size) against your equipment's requirements.
- **OEM Cross-Reference:** Confirm that the OEM part numbers listed for this wheel match the part you are replacing.
- **Axle Obstructions:** Ensure there are no burrs, rust, or debris on the axle preventing the wheel from sliding on smoothly.

5.2 Wheel Wobbles or Has Excessive Play

- **Check Fasteners:** Ensure all securing bolts/nuts are tightened to the manufacturer's specifications.
- **Proper Installation:** Re-verify that the wheel is fully seated on the axle and any spacers or washers are correctly positioned.
- **Axle Condition:** Inspect the equipment's axle for any bending or damage that could cause wobble.

5.3 Unusual Noise During Operation

- **Bearing Check:** While the bearing race is installed, excessive noise could indicate an issue. Ensure the wheel spins freely without grinding or squealing.
- **Debris:** Check for any debris caught around the wheel or axle that might be causing friction or noise.

If issues persist after troubleshooting, it is recommended to consult with a qualified service technician or contact Stens customer support.

6. SPECIFICATIONS

Model Number:	175-515
Brand:	Stens
Wheel Size:	9x3.50-4
Hub Size:	3 1/4 inches
Bore Size:	5/8 inches
Tread Type:	Smooth
Rim Size:	4 inches
Color:	Black
Product Dimensions (L x W x H):	22.86 x 22.86 x 9.4 cm
Item Weight:	58.97 g <i>(Note: This weight is as provided in product data. Please verify actual weight upon receipt.)</i>
OEM Part Number Cross-References:	Carlisle 11-5935S2-5, 457141; Grasshopper 483803, 603924, 603971; Woods 70944, 73725; J. Thomas JT-98915GH, 457141; Laser 92366; Oregon 72-723; Sunbelt B1SB8552; WH-0022; 227-1515

7. WARRANTY AND SUPPORT

Specific warranty information for the Stens 175-515 Solid Wheel Assembly may vary depending on your region and point of purchase. It is recommended to retain your proof of purchase.

For detailed warranty terms, technical support, or assistance with parts, please contact Stens customer service or the authorized dealer from whom you purchased the product. Contact information can typically be found on the manufacturer's official website or your purchase documentation.

For general inquiries, you may visit the [Stens official website](#) (link for illustrative purposes, actual link may vary).

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