

Aodhan DS-05

Aodhan DS-05 Custom Wheel User Manual

Model: DS-05 | Part Number: DS51885511435GB

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1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Aodhan DS-05 Custom Wheel. Designed for passenger cars, the Aodhan DS-05 wheel combines aesthetic appeal with robust performance, featuring a gloss black finish with gold rivets. Please read this manual thoroughly before installation and use to ensure safety and optimal performance.



Figure 1: Front view of the Aodhan DS-05 Custom Wheel, showcasing its gloss black finish and gold rivet details.

2. PRODUCT FEATURES

The Aodhan DS-05 Custom Wheel is engineered with the following key features:

- **Material:** High-quality Cast Aluminum for durability and reduced weight.
- **Size:** 18x8.5 inches, providing a balanced stance and performance.
- **Bolt Pattern (PCD):** 5x114.3, compatible with a wide range of passenger vehicles.
- **Hub Bore:** 73.1mm, ensuring a precise fit.

- **Offset:** 35mm, contributing to optimal wheel positioning.
- **Color:** Striking Gloss Black finish with elegant Gold Rivets.
- **Lip Size:** 2.09 inches, adding to the wheel's aggressive styling.
- **Weight:** Approximately 22.64 lbs (10.27 kg) per wheel.
- **Max Load:** 1521 lbs (690 kg), indicating robust load-bearing capacity.



Figure 2: A vehicle equipped with Aodhan DS-05 wheels, demonstrating their appearance when mounted.

3. SAFETY INFORMATION

Improper installation or use of wheels can lead to serious injury or property damage. Adhere to the following safety guidelines:

- **Professional Installation Recommended:** Always have wheels installed by a qualified technician.
- **Correct Fitment:** Ensure the wheel's specifications (PCD, hub bore, offset) match your vehicle's requirements. Consult your vehicle's manufacturer specifications.
- **Lug Nuts:** Use only lug nuts that are compatible with both the wheel and your vehicle. Incorrect lug nuts can lead to wheel detachment.
- **Torque Specifications:** Always tighten lug nuts to the vehicle manufacturer's specified torque settings using a calibrated torque wrench. Re-torque after the first 50-100 miles of driving.
- **Tire Mounting:** Ensure tires are mounted and balanced by a professional. Do not exceed the maximum tire pressure recommended by the tire manufacturer.
- **Inspection:** Regularly inspect wheels for damage, cracks, bends, or corrosion. Do not use damaged wheels.
- **Load Capacity:** Do not exceed the maximum load capacity of the wheel (1521 lbs / 690 kg).

4. SETUP AND INSTALLATION

While professional installation is highly recommended, the general steps for wheel installation are as follows:

1. **Preparation:** Park the vehicle on a level surface, engage the parking brake, and block the wheels that will remain on the ground.

- Loosen the lug nuts on the wheel to be removed.
- Lifting:** Safely lift the vehicle using a jack and secure it with jack stands.
 - Remove Old Wheel:** Fully remove the lug nuts and carefully take off the old wheel.
 - Clean Hub Surface:** Clean any rust or debris from the vehicle's hub surface to ensure proper seating of the new wheel.
 - Mount New Wheel:** Carefully place the Aodhan DS-05 wheel onto the hub, ensuring it sits flush.
 - Install Lug Nuts:** Hand-tighten the lug nuts in a star pattern until they are snug.
 - Lower Vehicle:** Lower the vehicle until the wheel just touches the ground, but the full weight is not on it.
 - Final Torque:** Using a calibrated torque wrench, tighten the lug nuts to the vehicle manufacturer's specified torque in a star pattern. Refer to your vehicle's owner's manual for exact torque specifications.
 - Full Lowering:** Fully lower the vehicle and remove the jack and jack stands.
 - Re-torque:** After driving 50-100 miles, re-torque all lug nuts to ensure they remain properly seated.

5. OPERATION AND DRIVING CONSIDERATIONS

Once installed, the Aodhan DS-05 wheels are designed for standard road use. Consider the following for optimal performance and longevity:

- Tire Pressure:** Maintain correct tire pressure as recommended by your vehicle manufacturer. Incorrect pressure can affect handling, tire wear, and fuel efficiency.
- Wheel Balancing:** Ensure wheels are properly balanced to prevent vibrations at speed. Re-balance if you notice persistent vibrations.
- Driving Habits:** Avoid hitting potholes, curbs, or other road hazards at high speeds, as this can damage the wheel and tire.
- Load Limits:** Do not overload your vehicle beyond its Gross Vehicle Weight Rating (GVWR) or the wheel's maximum load capacity.

6. MAINTENANCE

Regular maintenance will help preserve the appearance and integrity of your Aodhan DS-05 wheels:

- Cleaning:** Clean wheels regularly with mild soap and water. Avoid harsh abrasive cleaners, brushes, or chemicals that can damage the finish or gold rivets. Rinse thoroughly.
- Inspection:** Periodically inspect wheels for any signs of damage, such as cracks, bends, or deep scratches. Pay attention to the area around the lug holes and the inner barrel.
- Corrosion Prevention:** If you live in an area with road salt or harsh chemicals, clean your wheels more frequently to prevent corrosion.
- Tire Rotation:** Follow your vehicle manufacturer's recommendations for tire rotation, which can help ensure even tire wear and prolong wheel life.

7. TROUBLESHOOTING

Here are some common issues and their potential solutions:

Problem	Possible Cause	Solution
Vibration at speed	Unbalanced wheels, bent wheel, loose lug nuts, tire issue.	Have wheels re-balanced. Inspect wheels for damage. Check lug nut torque. Inspect tires for damage or uneven wear.
Uneven tire wear	Incorrect tire pressure, misalignment, unbalanced wheels, worn suspension components.	Check and adjust tire pressure. Have vehicle alignment checked. Have wheels balanced. Inspect suspension.
Noise from wheel area	Loose lug nuts, worn wheel bearing, brake issue, foreign object.	Check lug nut torque. Inspect wheel bearing. Have brakes inspected. Check for debris.
Wheel finish fading/peeling	Harsh cleaning chemicals, environmental exposure, physical damage.	Use only mild soap and water for cleaning. Avoid abrasive materials. Consider professional refinishing if severe.

If you encounter issues not listed here or if solutions do not resolve the problem, consult a professional automotive technician.

8. TECHNICAL SPECIFICATIONS

Detailed specifications for the Aodhan DS-05 Custom Wheel:

Attribute	Value
Model	DS-05
Part Number	DS51885511435GB
Material	Cast Aluminum
Size	18x8.5 inches
Pitch Circle Diameter (PCD)	5x114.3 mm
Hub Bore	73.1 mm
Offset	35 mm
Color	Gloss Black with Gold Rivets
Lip Size	2.09 inches
Item Weight	22.64 lbs (10.27 kg)
Max Load	1521 lbs (690 kg)
UPC	717416628536
Manufacturer	Aodhan Wheels

9. WARRANTY AND SUPPORT

Aodhan Wheels typically offers a limited warranty against manufacturing defects. For specific warranty terms, conditions, and duration, please refer to the warranty card included with your purchase or visit the official Aodhan Wheels website. Keep your proof of purchase for warranty claims.

For technical support, installation inquiries, or warranty service, please contact Aodhan Wheels customer service directly. Contact information can usually be found on their official website or on the product packaging.

Website: www.aodhanwheels.com (Note: This is a placeholder URL, please verify the official website)

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