ACPS-ORIS 044-811

ACPS-ORIS 044-811 Tow Hitch Instruction Manual

Model: 044-811

1. Introduction

This manual provides essential information for the safe and correct installation, operation, and maintenance of your ACPS-ORIS 044-811 Tow Hitch. Please read these instructions thoroughly before attempting any installation or use. Retain this manual for future reference.

Safety First: Always prioritize safety. Improper installation or use of a tow hitch can lead to serious injury or property damage. If you are unsure about any step, consult a qualified professional.

2. Product Overview

The ACPS-ORIS 044-811 is a robust tow hitch designed for reliable trailer coupling. It consists of a main tow bar assembly, a tow ball, and necessary mounting hardware.

Components:

- **Tow Bar:** The primary structural component that attaches to the vehicle's chassis.
- **Tow Ball:** The spherical component to which the trailer coupler attaches.
- **Mounting Hardware:** Bolts, nuts, washers, and brackets required for secure attachment.
- **Protective Cap:** A cover for the tow ball when not in use.



Figure 2.1: Main ACPS-ORIS 044-811 Tow Hitch assembly, showing the tow ball and part of the tow bar.



Figure 2.2: Protective cap for the tow ball, featuring the ORIS brand logo.



Figure 2.3: Example of a mounting bracket or adapter plate, typically used for securing the tow hitch or electrical connections.

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3. Setup and Installation

Installation of a tow hitch requires mechanical aptitude and specific tools. It is highly recommended that installation be performed by a qualified mechanic or an authorized ACPS-ORIS service center to ensure proper fitment and safety.

General Installation Steps (Consult vehicle-specific instructions for details):

1. **Vehicle Preparation:** Park the vehicle on a level surface, engage the parking brake, and turn off the engine. Disconnect the negative terminal of the vehicle's battery if working near electrical components.
2. **Access Mounting Points:** Depending on the vehicle, this may involve removing bumper covers, exhaust

hangers, or other components to access the chassis mounting points.

3. **Position Tow Bar:** Carefully lift and position the tow bar assembly against the vehicle's frame, aligning it with the designated mounting holes.
4. **Secure Hardware:** Insert all bolts, washers, and nuts as specified in your vehicle-specific installation guide. Hand-tighten all fasteners initially.
5. **Torque Fasteners:** Using a torque wrench, tighten all fasteners to the torque specifications provided in the vehicle-specific instructions. Ensure all bolts are securely fastened.
6. **Install Tow Ball:** Attach the tow ball to the tow bar using the provided hardware, ensuring it is correctly oriented and torqued to specifications.
7. **Electrical Connection (Sold Separately):** If a trailer wiring harness is required, install it according to its separate instructions. Ensure all connections are secure and weatherproof.
8. **Reassemble Vehicle:** Reinstall any removed vehicle components.
9. **Final Inspection:** Double-check all connections and ensure the tow hitch is securely mounted and free from obstructions.

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4. Operating Instructions

Proper operation of your tow hitch ensures safe towing and extends the life of your equipment.

Connecting a Trailer:

1. **Inspect:** Before each use, inspect the tow hitch, tow ball, and trailer coupler for any signs of wear, damage, or corrosion. Ensure all fasteners are tight.
2. **Align:** Carefully back your vehicle to align the tow ball with the trailer coupler.
3. **Lower Coupler:** Lower the trailer coupler onto the tow ball. Ensure the coupler fully engages and locks onto the ball.
4. **Secure Latch:** Engage the coupler latch mechanism and insert any safety pins or clips as required by the trailer manufacturer.
5. **Safety Chains:** Cross the trailer's safety chains beneath the trailer tongue and attach them securely to the designated points on the tow hitch or vehicle frame.
6. **Electrical Connection:** Connect the trailer's electrical plug to the vehicle's receptacle. Test all trailer lights (brake, turn signals, running lights) before driving.
7. **Check Clearance:** Ensure adequate clearance between the vehicle and trailer, especially during turns.

Disconnecting a Trailer:

1. Park the vehicle and trailer on a level surface. Engage the vehicle's parking brake and block the trailer wheels.
2. Disconnect the electrical plug.
3. Remove safety chains.
4. Open the trailer coupler latch and raise the trailer tongue until it clears the tow ball.
5. Once disconnected, place the protective cap over the tow ball to prevent corrosion and protect against injury.

Towing Considerations:

- Always adhere to the towing capacity of your vehicle and the tow hitch. Do not exceed the lowest rated component.
- Ensure proper weight distribution on the trailer.
- Adjust driving habits when towing, allowing for increased braking distances and wider turns.

5. Maintenance

Regular maintenance will ensure the longevity and safe operation of your ACPS-ORIS tow hitch.

- **Inspection:** Periodically inspect the tow hitch for any signs of rust, cracks, bends, or loose fasteners. Pay close attention to welds and mounting points.
- **Cleaning:** Clean the tow hitch regularly, especially after exposure to road salt, dirt, or harsh weather conditions. Use mild soap and water, then rinse thoroughly.
- **Lubrication:** Apply a thin layer of grease to the tow ball surface before each use to reduce friction and wear on the trailer coupler.
- **Fastener Check:** Re-torque all mounting bolts to the specified values annually or after significant towing activity.
- **Protective Cap:** Always use the protective cap on the tow ball when not towing to prevent corrosion and keep the ball clean.

6. Troubleshooting

This section addresses common issues you might encounter with your tow hitch.

- **Loose Connections:** If you notice any play or movement in the tow hitch, immediately stop towing and inspect all mounting bolts. Re-torque to specifications.
- **Unusual Noises:** Squeaking or grinding noises during towing may indicate insufficient lubrication on the tow ball or issues with the trailer coupler. Ensure the tow ball is greased and the coupler is properly engaged.
- **Corrosion:** Rust on the tow hitch can be prevented with regular cleaning and by using the protective cap. If corrosion is present, clean it thoroughly and apply a rust-inhibiting paint if necessary.
- **Trailer Light Malfunctions:** If trailer lights are not working, check the electrical connection for corrosion or loose pins. Inspect the trailer's wiring harness and fuses.

For persistent issues or concerns, contact a qualified mechanic or ACPS-ORIS customer support.

7. Specifications

- **Model:** ACPS-ORIS 044-811
- **Manufacturer Reference:** 044-811
- **Approximate Item Weight:** 19 Kilograms
- **Approximate Package Dimensions:** 103 x 25 x 25 cm
- **Material:** Steel (specific grade may vary)
- **Finish:** Black powder coat (typical)

Note: Specific towing capacities (vertical load, maximum trailer weight) are vehicle-dependent and must be confirmed with your vehicle's manufacturer and the tow hitch's rating label. Always adhere to the lowest rating.

8. Warranty and Support

ACPS-ORIS products are manufactured to high standards. For information regarding warranty coverage, terms, and conditions, please refer to the warranty documentation included with your purchase or visit the official ACPS-ORIS website.

For technical assistance, spare parts, or further inquiries, please contact ACPS-ORIS customer support through their official channels. When contacting support, please have your model number (044-811) and purchase details readily available.

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