

## AH AH-ADAP-ASO

# AHK US-Adapter 50x50mm Height Adjustable ISO 50 Ball Head Tow Hitch Device Instruction Manual

Model: AH-ADAP-ASO

## 1. INTRODUCTION

This instruction manual provides essential information for the safe and effective installation, operation, and maintenance of your AH AHK US-Adapter 50x50mm Height Adjustable ISO 50 Ball Head Tow Hitch Device. Please read this manual thoroughly before use and retain it for future reference. Proper installation and adherence to safety guidelines are crucial for optimal performance and user safety.

## 2. PRODUCT OVERVIEW AND COMPONENTS

The AH AHK US-Adapter is a robust tow hitch device designed for vehicles requiring a 50x50mm square tube receiver. It features an ISO 50 ball head with adjustable height for versatile towing applications.

### 2.1. Components Included in Delivery:

- US-Adapter Tow Hitch / 50mm x 50mm Square Tube
- ISO 50 Ball Head - Height Adjustable
- Identification Plate
- Mounting Instructions / ABE (General Operating Permit)
- Invoice (for purchase records)



**Figure 1: AHK US-Adapter Tow Hitch Device.** This image displays the complete tow hitch assembly, including the 50x50mm square tube adapter, the height-adjustable mounting plate with multiple bolt holes, and the ISO 50 ball head attached. A safety pin or bolt is visible securing the adapter within the receiver. The identification plate is also visible on the side of the mounting plate.

### 3. SAFETY INFORMATION

**WARNING:** Failure to follow these safety instructions could result in serious injury, death, or property damage.

- Always ensure the tow hitch is correctly installed and secured before towing.
- Do not exceed the maximum towing capacity or tongue weight specified for this device or your vehicle.

- Regularly inspect the tow hitch for signs of wear, damage, or corrosion. Replace damaged components immediately.
- Ensure all bolts and fasteners are tightened to the manufacturer's specifications.
- Use appropriate safety chains and ensure they are correctly attached to both the trailer and the tow vehicle.
- Be aware of increased stopping distances and reduced maneuverability when towing.
- Consult your vehicle's owner's manual for specific towing recommendations and limitations.

## 4. SETUP AND INSTALLATION

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Installation should be performed by a qualified professional or an individual with appropriate mechanical knowledge. Refer to the included "Mounting Instructions / ABE" for detailed, product-specific installation steps.

### 4.1. General Installation Steps:

1. **Prepare Vehicle:** Ensure your vehicle is parked on a level surface, the engine is off, and the parking brake is engaged.
2. **Insert Adapter:** Slide the 50x50mm square tube of the AHK US-Adapter into your vehicle's receiver hitch.
3. **Secure Adapter:** Align the pinholes on the adapter with those on your vehicle's receiver. Insert the hitch pin and secure it with a clip or lock.
4. **Attach Ball Head:** Mount the ISO 50 ball head to the height-adjustable plate using the provided bolts and nuts. Select the appropriate height setting for your trailer to ensure level towing.
5. **Tighten Fasteners:** Securely tighten all bolts and nuts to the torque specifications provided in the detailed mounting instructions.
6. **Final Check:** Verify that all components are securely fastened and that there is no excessive play.

*Note: This product is designed for vehicles that do not require bumper disassembly or cutting for installation.*

## 5. OPERATING INSTRUCTIONS

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Once the tow hitch is securely installed, follow these steps for safe towing:

1. **Connect Trailer:** Carefully back your vehicle towards the trailer. Lower the trailer coupler onto the ISO 50 ball head.
2. **Secure Coupler:** Engage the trailer coupler latch and ensure it is fully locked onto the ball. Check for proper engagement by attempting to lift the trailer tongue.
3. **Attach Safety Chains:** Cross the safety chains under the trailer tongue and attach them to the designated points on your vehicle's hitch receiver or frame. Ensure there is enough slack for turns but not so much that they drag on the ground.
4. **Connect Electrical:** Plug in the trailer's electrical connector to your vehicle's receptacle. Test all trailer lights (brake, turn signals, running lights).
5. **Final Inspection:** Before driving, perform a walk-around inspection to ensure all connections are secure, tires are properly inflated, and cargo is distributed evenly and secured in the trailer.

### 5.1. Height Adjustment

The ISO 50 ball head offers height adjustment. To adjust the height:

1. Remove the bolts securing the ball head assembly to the height-adjustable plate.

2. Move the ball head assembly to the desired height position, aligning the bolt holes.
3. Reinsert and securely tighten all bolts to the specified torque.
4. Ensure the trailer is level when connected to prevent uneven tire wear and improve towing stability.

## 6. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your tow hitch device.

- **Routine Inspection:** Before each towing trip, inspect the tow hitch for any signs of cracks, bends, excessive rust, or loose fasteners.
- **Cleaning:** Clean the tow hitch regularly, especially after exposure to road salt, dirt, or harsh weather conditions. Use mild soap and water, then dry thoroughly.
- **Lubrication:** Apply a thin layer of grease to the tow ball to reduce friction and wear between the ball and the trailer coupler.
- **Fastener Check:** Periodically check and re-tighten all bolts and nuts to their specified torque values.
- **Storage:** If removing the hitch for storage, clean it thoroughly and store it in a dry place to prevent corrosion.

## 7. TROUBLESHOOTING

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

### 7.1. Common Issues and Solutions:

- **Issue:** Excessive play or rattling from the hitch receiver.  
**Solution:** Ensure the hitch pin is fully inserted and secured. Consider using an anti-rattle device if the play persists and is not due to loose components.
- **Issue:** Difficulty connecting the trailer coupler to the ball.  
**Solution:** Ensure the tow ball is clean and lightly greased. Verify the trailer coupler is fully open and aligned correctly. Check if the trailer tongue height is appropriate for the ball height.
- **Issue:** Visible rust or corrosion.  
**Solution:** Clean the affected area with a wire brush, apply a rust-inhibiting primer, and repaint with a suitable protective coating. If corrosion is severe and compromises structural integrity, replace the component.
- **Issue:** Trailer not towing level.  
**Solution:** Adjust the height of the ISO 50 ball head using the multiple bolt holes on the mounting plate. Ensure the trailer is as level as possible when connected.

## 8. SPECIFICATIONS

Refer to the following specifications for your AH AHK US-Adapter Tow Hitch Device:

Feature	Specification
Model Number	AH-ADAP-ASO
Receiver Size	50mm x 50mm (US-Adapter)
Ball Head Type	ISO 50

Feature	Specification
Towing Capacity	3500 kg (7704 lbs)
Tongue Weight (Max. Vertical Load)	140 kg
D-Value	17.20 kN
Bumper Disassembly Required	No
Bumper Cut Required	No
Material	Metal
Vehicle Service Type	Truck, Car
Fit Type	Universal Fit

## 9. WARRANTY AND SUPPORT

Specific warranty details for the AH AHK US-Adapter Tow Hitch Device were not provided in the product information. Please refer to your purchase documentation or contact the seller, XIMPLIO-Shop, for warranty information and customer support.

For further assistance or technical inquiries, please contact the manufacturer or your point of purchase.

**Seller:** [XIMPLIO-Shop](#)

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