Barnes 4WD B4WK12450

Barnes 4WD YJ Rear Tail Plate Bumper Instruction Manual

Model: B4WK12450

1. Product Overview

The Barnes 4WD YJ Rear Tail Plate Bumper is engineered to enhance the rear of your Jeep YJ, providing a maximum departure angle and integrating two robust recovery points. This design significantly adds rigidity to the vehicle's frame. Constructed from durable 3/16 inch alloy steel, the bumper features 3/4 inch thick clevis mounts, specifically designed to accept 3/4 inch D-rings.

This bumper is shipped as bare steel and requires painting or powder coating upon installation to prevent corrosion and match your vehicle's aesthetic.



Image 1.1: The Barnes 4WD YJ Rear Tail Plate Bumper in its bare steel finish, showcasing the integrated recovery points.

2. Safety Information

Always prioritize safety during installation and use. Failure to follow these guidelines may result in injury or damage to property.

- Wear appropriate personal protective equipment, including safety glasses and work gloves, during installation.
- Ensure the vehicle is parked on a level, stable surface and the parking brake is engaged. Use wheel chocks to prevent movement.
- If lifting the vehicle, use jack stands or a hoist rated for the vehicle's weight. Never work under a vehicle supported only by a jack.
- Disconnect the vehicle's battery before beginning any electrical work, if applicable.
- If you are unsure about any step of the installation process, consult a qualified professional mechanic.
- Do not exceed the rated capacity of recovery points or D-rings during vehicle recovery operations.

3. Package Contents

Verify that all components are present and undamaged before beginning installation. If any parts are missing or damaged, contact Barnes 4WD customer support.

- YJ Rear Tail Plate Bumper (1 unit)
- *Note: Mounting hardware is typically sold separately or may utilize existing factory hardware. Please check your specific order details.*

4. Tools Required

The following tools are generally required for the installation of the YJ Rear Tail Plate Bumper:

- Standard Socket/Wrench Set (Metric and/or SAE, depending on vehicle hardware)
- Torque Wrench
- Measuring Tape
- Marking Tool (e.g., grease pencil, marker)
- Grinder or Cut-off Wheel (if frame modifications are necessary)
- Drill and Drill Bits (if new mounting holes are required)
- Safety Glasses
- Work Gloves

5. Setup and Installation Instructions

Follow these steps carefully for proper installation of your Barnes 4WD YJ Rear Tail Plate Bumper.

5.1. Preparation

1. Park your Jeep YJ on a flat, level, and stable surface.
2. Engage the parking brake and place wheel chocks behind the front wheels.
3. If necessary, lift the rear of the vehicle and support it securely with jack stands.

5.2. Removal of Existing Bumper (if applicable)

1. Locate and remove all bolts, nuts, and fasteners securing the factory or aftermarket rear bumper to the vehicle's frame.
2. Carefully detach and remove the old bumper. Store any reusable hardware.

5.3. Bumper Placement and Alignment

1. With assistance, carefully position the Barnes 4WD YJ Rear Tail Plate Bumper onto the vehicle's rear frame.
2. Align the bumper's mounting holes with the corresponding holes on the vehicle's frame. Minor adjustments may be required.

5.4. Mounting and Securing

1. Insert the appropriate mounting hardware (not included, refer to your specific hardware kit or factory specifications) through the bumper and frame holes.
2. Hand-tighten all nuts and bolts to ensure proper alignment before final tightening.
3. Once all hardware is in place and the bumper is correctly aligned, progressively tighten all fasteners using a torque wrench to the vehicle manufacturer's recommended specifications or general automotive torque values for the bolt

size.

5.5. Finishing (Painting/Powder Coating)

1. As the bumper ships bare, it is highly recommended to paint or powder coat it to protect against rust and corrosion.
2. Follow the manufacturer's instructions for your chosen paint or powder coat product for proper surface preparation, application, and curing.

6. Operating (Recovery Points)

The integrated clevis mounts on the Barnes 4WD YJ Rear Tail Plate Bumper are designed for vehicle recovery operations. They are compatible with 3/4 inch D-rings.

- Always use D-rings that are properly rated for the anticipated recovery load.
- Ensure D-rings are securely fastened to the clevis mounts before initiating any recovery.
- Follow safe recovery practices, including using appropriate recovery straps, dampeners, and maintaining a safe distance from the recovery area.
- Never use the bumper for towing purposes unless explicitly designed and rated for such use. The recovery points are for temporary recovery only.

7. Maintenance

Regular maintenance will ensure the longevity and performance of your bumper.

- **Inspection:** Periodically inspect the bumper for any signs of damage, cracks, or deformation, especially after off-road use.
- **Fasteners:** Check all mounting bolts and nuts regularly to ensure they remain tight. Re-torque to specifications if necessary.
- **Corrosion Protection:** Maintain the paint or powder coat finish to prevent rust and corrosion. Touch up any chips or scratches promptly.
- **Cleaning:** Clean the bumper regularly to remove dirt, mud, salt, and other debris that can accelerate wear and corrosion.

8. Troubleshooting

If you encounter issues during or after installation, consider the following:

- **Bumper Does Not Align:** Double-check that the bumper is designed for your specific vehicle model (Jeep YJ). Ensure no obstructions are present on the frame or mounting points. Loosen all hardware, adjust the bumper, and re-tighten.
- **Loose Fit After Installation:** Verify that all mounting hardware is correctly installed and torqued to the recommended specifications. Over time, bolts can loosen due to vibrations; re-torque as part of routine maintenance.
- **Unusual Noises:** Inspect all contact points between the bumper and the vehicle frame. Ensure no components are rubbing or vibrating against each other. Tighten any loose fasteners.

9. Specifications

- **Brand:** Barnes 4WD

- **Model:** B4WK12450
- **Material:** 3/16 inch Alloy Steel (Bumper), 3/4 inch Steel (Clevis Mounts)
- **Finish:** Bare Steel (requires painting/powder coating)
- **Approximate Item Weight:** 15 Pounds
- **Approximate Package Dimensions:** 52.01 x 8.82 x 4.33 inches
- **Recovery Points:** Two integrated clevis mounts, compatible with 3/4 inch D-rings
- **Vehicle Service Type:** Trucks (specifically Jeep YJ)
- **Automotive Fit Type:** Universal Fit (for YJ models)

10. Warranty and Support

Warranty information for the Barnes 4WD YJ Rear Tail Plate Bumper is not provided within this instruction manual. For details regarding product warranty, returns, or technical support, please contact Barnes 4WD directly through their official website or customer service channels.

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