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Nixon Offroad WSAJL01B103-BX

Nixon Offroad Rear Bumper Combo for Jeep Wrangler JL - Installation Manual

Model: WSAJL01B103-BX

Brand: Nixon Offroad

1. Safety Information

Always wear appropriate personal protective equipment, including safety glasses and gloves, during installation. Ensure the vehicle is securely supported on a level surface before beginning any work. Disconnect the vehicle's battery before performing any electrical wiring. Professional installation is recommended for optimal safety and performance.
Refer to your vehicle's owner's manual for specific safety precautions and torque specifications.

2. Package Contents

Verify all components are present before beginning installation:

- 1 × Rear Bumper for Jeep Wrangler JL / JLU
- 2 × LED Lights (Red) with Wiring Kit
- 1 × Set of Mounting Hardware Kit

Note: D-rings are not included and must be purchased separately.

3. Specifications

Feature	Detail
Product Dimensions	169.93 x 38.1 x 17.53 cm
Product Weight	23.59 kg
Material	Heavy-Duty Power Coated Steel (Stainless Steel)
Surface Finish	Textured Black Powder Coat
Fitment	2018-2026 Jeep Wrangler JL (2-Door & 4-Door All Models)

Installation Type	Bolt-On
Special Features	Built-in Tire Mount, LED Lights, D-Ring Shackles Location

4. Installation Instructions

4.1. Preparation

- Ensure the vehicle is parked on a flat, stable surface.
- Engage the parking brake and block the wheels.
- Gather all necessary tools (sockets, wrenches, wire cutters, electrical tape, etc.).
- Disconnect the negative terminal of the vehicle's battery.

4.2. Remove Factory Rear Bumper

Carefully remove the existing factory rear bumper. This typically involves:

1. Locating and disconnecting any wiring harnesses for factory lights or sensors.
2. Unbolting the bumper from the vehicle frame.
3. Removing the bumper and setting it aside.

4.3. Bumper Components Overview

Familiarize yourself with the components of your new Nixon Offroad Rear Bumper. This bumper includes integrated LED lights, a deep wheel well for larger tires, and designated locations for 4.75 Ton D-Rings shackles (shackles not included).



Image: Overview of the Nixon Offroad Rear Bumper components, highlighting LED lights, deep wheel well, and D-ring shackle locations.

4.4. Install New Rear Bumper

The Nixon Offroad Rear Bumper is designed for a direct bolt-on installation using factory holes. No cutting or drilling is required for the bumper itself.



Image: All mounting hardware included with the Nixon Offroad Rear Bumper.

1. Carefully position the new rear bumper onto the vehicle's frame mounting points.
2. Align the pre-drilled holes on the bumper with the factory mounting holes on the vehicle.
3. Secure the bumper using the provided mounting hardware kit (bolts, washers, nuts). Hand-tighten all fasteners initially.
4. Once all fasteners are in place, progressively tighten them to the manufacturer's recommended torque specifications.

4.5. Wiring the LED Lights

The bumper includes LED lights for enhanced visibility. Proper wiring is essential for their functionality. You will need to identify the correct factory wiring for your vehicle's daytime running lights (DRL) and turn signals. Use a multimeter or test light to confirm the function of each wire in the factory harness before making connections.

Strip the wire insulation from the factory wires and the provided LED light wiring. Connect the LED light wires to the corresponding factory DRL and turn signal wires. Ensure all connections are secure and insulated with electrical tape. Use zip ties to neatly secure the wiring harness and prevent it from interfering with moving parts or being exposed to damage.



Image: Illustration of the built-in LED lights functioning during daytime and nighttime, enhancing visibility.

4.6. Tire Mount and Hitch Receiver

The bumper features a built-in tire mount designed to accommodate larger tires (up to 35 inches) and a Class III 2-inch hitch receiver for towing. It also includes locations for D-ring shackles.



Image: Close-up of the trailer hook mounting position and D-ring shackle locations on the bumper.

4.7. Final Checks

- Reconnect the vehicle's battery.
- Test all LED light functions (DRL, turn signals) to ensure proper operation.
- Double-check all bolts and fasteners for tightness.
- Ensure no wires are pinched or exposed.

5. Operating Instructions

The Nixon Offroad Rear Bumper Combo is designed to integrate seamlessly with your Jeep Wrangler JL's existing systems.

- **LED Lights:** The integrated LED lights will operate in conjunction with your vehicle's DRL and turn signal functions once properly wired.
- **Tire Mount:** The built-in tire mount is designed to securely hold a spare tire up to 35 inches. Ensure the tire is properly secured before driving.
- **D-Ring Shackles:** The designated D-ring shackle locations are for recovery purposes. Always use appropriate, rated D-ring shackles and follow safe recovery procedures.
- **Hitch Receiver:** The Class III 2-inch hitch receiver allows for towing. Adhere to your vehicle's maximum towing capacity

and local towing regulations.

6. Maintenance

Regular maintenance will ensure the longevity and performance of your Nixon Offroad Rear Bumper.

- **Cleaning:** Wash the bumper regularly with mild soap and water to remove dirt, mud, and road grime. Avoid abrasive cleaners or harsh chemicals that could damage the textured black powder coat finish.
- **Inspection:** Periodically inspect all mounting bolts and fasteners for tightness. Re-tighten as necessary. Check the LED lights for any damage or corrosion.
- **Rust Prevention:** The bumper features a textured black powder coat finish for corrosion resistance. However, inspect for any chips or scratches in the coating and touch up with appropriate paint to prevent rust.
- **Wiring:** Check wiring connections for any signs of wear, fraying, or corrosion. Ensure all connections remain secure and insulated.

7. Troubleshooting

- **LED Lights Not Working:**
  a. Check all wiring connections for proper contact and insulation.
  b. Ensure the vehicle's battery is properly connected.
  c. Verify the factory DRL and turn signal circuits are functioning correctly.
  d. Inspect the LED lights for any visible damage.
- **Loose Bumper:**
  a. Re-check all mounting bolts and nuts. Tighten to specifications.
  b. Ensure the bumper is correctly seated on the vehicle's frame.
- **Sensor Issues (if applicable):**
  If your vehicle has factory backup sensors, ensure they are properly integrated and not obstructed by the new bumper. The bumper is designed to work with factory backup sensors.

8. Warranty and Support

Nixon Offroad provides a **12-month warranty** against defects in materials and workmanship. A **30-day return policy** is offered for damages incurred during transport or product defects (excluding man-made damage).
For any questions or support, please contact Nixon Offroad via Amazon email. Our customer support team is available 7 days a week, 24 hours a day.
For more information, visit the Nixon Offroad Store.

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