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Nixon Offroad 20-0146

Nixon Offroad LED Tail Lights Assembly User Manual

For 2001-2005 Ford Ranger (Clear Lens)

Model: 20-0146

1. Introduction

Thank you for choosing Nixon Offroad LED Tail Lights. This manual provides essential information for the proper installation, operation, and maintenance of your new tail light assembly. Please read these instructions carefully before beginning installation to ensure safe and correct usage. Proper installation is crucial for optimal performance and safety.

This product is designed to enhance the visibility and aesthetic of your vehicle while meeting safety standards.

2. Vehicle Compatibility

This LED Tail Lights Assembly is compatible with the following vehicle models:

- 2001 Ford Ranger
- 2002 Ford Ranger
- 2003 Ford Ranger
- 2004 Ford Ranger
- 2005 Ford Ranger

Note: This product is not compatible with STX Models.



Image: Visual confirmation of vehicle fitment for 2001-2005 Ford Ranger, explicitly excluding STX models.

3. Package Contents

Upon opening the package, please verify that all components are present and undamaged:

- 1x Driver Side LED Tail Light Assembly
- 1x Passenger Side LED Tail Light Assembly

4. Safety Information

Always prioritize safety during installation and operation. Failure to follow these guidelines may result in injury or damage to the product or vehicle.

- **Disconnect Battery:** Before beginning any electrical work, always disconnect the vehicle's negative battery terminal to prevent electrical shock or short circuits.
- **Wear Protective Gear:** Use appropriate personal protective equipment, such as safety glasses and gloves,

during installation.

- **Professional Installation:** If you are unsure about any step of the installation process, it is recommended to seek assistance from a qualified automotive technician.
- **Secure Wiring:** Ensure all wiring is properly routed and secured to prevent chafing, pinching, or contact with hot or moving parts.
- **Test Functionality:** After installation, thoroughly test all lighting functions (running lights, brake lights, turn signals, reverse lights) before driving.

5. Installation Instructions

This product is designed for a direct OEM fit and features a plug-and-play installation. No drilling or modifications are typically required.

5.1. Tools Required

- Socket wrench set (typically 8mm, 10mm, or 13mm sockets, depending on vehicle)
- Flathead screwdriver (for prying clips, if necessary)
- Phillips head screwdriver
- Trim removal tool (optional, for plastic clips)

5.2. Preparation

1. Park your vehicle on a level surface and engage the parking brake.
2. Open the hood and disconnect the negative (-) terminal from your vehicle's battery.
3. Open the tailgate to access the tail light mounting screws.

5.3. Removal of Existing Tail Lights

1. Locate the mounting screws or bolts securing the tail light assembly to the vehicle body. These are typically visible from the tailgate opening.
2. Using the appropriate socket wrench or screwdriver, carefully remove these fasteners.
3. Gently pull the tail light assembly straight back from the vehicle. It may be held in place by alignment pins or clips. Avoid excessive force.
4. Once the assembly is loose, carefully disconnect the electrical connectors by pressing the release tab and pulling them apart.
5. Remove the old tail light assembly and set it aside.

5.4. Installation of New LED Tail Lights

1. Take the new Nixon Offroad LED Tail Light Assembly.
2. Connect the electrical connectors from the vehicle's wiring harness to the corresponding connectors on the new tail light assembly. Ensure they click securely into place.
3. The LED tail lights are designed to be plug-and-play. If your vehicle experiences hyper-flashing (rapid blinking of turn signals), ensure any included load resistors are properly connected as per the instructions provided with the resistors.
4. Carefully align the new tail light assembly with the mounting holes and alignment pins on the vehicle body.
5. Gently push the assembly into place until it sits flush against the vehicle.
6. Reinstall the mounting screws or bolts that were removed earlier. Tighten them securely, but do not

overtighten.

7. Repeat the process for the other side of the vehicle.



Image: Detailed view of the plug-and-play wiring connections, illustrating the simplicity of installation.

5.5. Post-Installation Check

1. Reconnect the negative (-) battery terminal.
2. Turn on your vehicle's ignition and test all lighting functions: running lights, brake lights, left turn signal, right turn signal, and reverse lights.
3. Ensure all lights are functioning correctly and that there are no warning indicators on your dashboard.

6. Operation

The Nixon Offroad LED Tail Lights Assembly provides enhanced illumination and visibility for your Ford Ranger. The integrated LEDs offer superior brightness, energy efficiency, and a longer lifespan compared to traditional incandescent bulbs.

- **Running Lights:** Illuminate when your vehicle's headlights or parking lights are on, providing constant rear visibility.
- **Brake Lights:** Activate when the brake pedal is pressed, signaling deceleration to following vehicles.
- **Turn Signals:** The amber LED sequential turn signals activate when the turn signal lever is engaged, providing a clear and dynamic indication of your intended direction.
- **Reverse Lights:** Illuminate when the vehicle is shifted into reverse gear, providing light for backing up and signaling to others.



Image: Illustration of the various lighting functions, including reverse light, running light, turn signal, and brake light.

7. Maintenance

To ensure the longevity and optimal performance of your LED Tail Lights, follow these simple maintenance guidelines:

- **Cleaning:** Clean the lens with a soft cloth and mild automotive soap and water. Avoid abrasive cleaners or harsh chemicals that could damage the lens material.

- **Inspection:** Periodically inspect the tail light assemblies for any signs of damage, cracks, or loose connections. Ensure the seals are intact to prevent moisture intrusion.
- **Wiring Check:** Occasionally check the wiring harness and connectors for corrosion or damage.



Image: Visual representation of the tail lights' weatherproof, dustproof, and cold-proof design, highlighting their durability.

8. Troubleshooting

If you encounter any issues with your Nixon Offroad LED Tail Lights, refer to the following common problems and solutions:

- **Lights Not Functioning:**
  - Check all electrical connections to ensure they are securely plugged in.
  - Verify that the vehicle's fuses related to the tail lights are not blown.
  - Ensure the battery is properly connected and charged.

- **Hyper-Flashing (Rapid Turn Signal Blinking):**
    - This typically occurs when converting from incandescent bulbs to LEDs due to lower power draw. Ensure any included load resistors are correctly installed.
    - If resistors were not included or are not functioning, additional load resistors may be required.
- **Moisture Inside Lens:**
    - Small amounts of condensation can occur due to temperature changes; this usually dissipates.
    - If significant moisture or water accumulation is present, check for cracks in the housing or improper sealing. Ensure the breather vent is clear.

If troubleshooting steps do not resolve the issue, please contact customer support.

9. Specifications

Feature	Specification
Brand	Nixon Offroad
Model Number	20-0146
Color	Clear Lens
Light Source	LED
Lens Material	Polycarbonate
Housing Material	ABS Plastic
Certification	DOT/SAE Compliance
Weatherproof Rating	IP67
OEM Part Numbers	1L5Z13404BA (Right), 1L5Z13405BA (Left)
Partslink Numbers	FO2801156 (Right), FO2800156 (Left)
Item Weight	Approximately 4.89 pounds (pair)
Assembly Required	No



Image: Close-up view of the LED tail light, emphasizing the super bright LEDs and clear PMMA lens for optimal light output.

10. Warranty and Support

Nixon Offroad is committed to providing high-quality products and customer satisfaction. If you have any questions, concerns, or require assistance with your LED Tail Lights, please do not hesitate to contact our support team.

- **Customer Support:** Our professional support team is available to assist you. Please contact us via the Amazon message center for prompt assistance. We aim to reply within 12 hours.
- **Warranty:** Specific warranty details may vary. Please refer to your purchase documentation or contact customer support for information regarding product warranty.

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