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› FEELON 52-inch 300W LED Light Bar and 4-inch LED Pods Kit for 1997-2006 Jeep Wrangler TJ - Installation and Operation Manual

FEELON WHX-YY-300W5DHM-2P18WBS-BT-TJ-B-D4

FEELON 52-inch 300W LED Light Bar and 4-inch LED Pods Kit

Model: WHX-YY-300W5DHM-2P18WBS-BT-TJ-B-D4

For 1997-2006 Jeep Wrangler TJ

1. PRODUCT OVERVIEW

This kit includes a 52-inch 300W LED light bar and two 4-inch LED pods, designed for off-road use. It features white and amber yellow lighting options with multiple strobe modes for the pods, and a combination spot/flood beam pattern for the light bar. The system is supplied with upper windshield mounting brackets, a switch, and a wiring harness, specifically designed for 1997-2006 Jeep Wrangler TJ vehicles.



Figure 1.1: Overall view of the FEELON 52-inch LED Light Bar and 4-inch LED Pods Kit, showing dimensions of the light bar (52 inches) and individual pods (4 inches wide, 3.43 inches high, 2.56 inches deep).

2. PACKAGE CONTENTS

Verify that all components are present before beginning installation:

- 1 x 52-inch LED Light Bar
- 2 x 4-inch LED Amber-White Strobe Pods
- 1 x Switch Wiring Harness
- 1 x Upper Windshield Mounting Brackets for 52-inch Light Bar (for 1997-2006 Wrangler TJ)
- Mounting Brackets for 4-inch Pods

3. SPECIFICATIONS

| Feature | Specification |
|-------------------|---------------|
| Light Bar Wattage | 300W |

| | |
|-------------------|---|
| LED Pod Wattage | 60W (per pair) |
| Color Temperature | 6000K (White Light) |
| Luminous Flux | 35000 Lumens |
| LED Pod Modes | White, Amber, White & Amber, White Flash, Amber Flash, White & Amber Strobe |
| Lens Type | 5D Reflective Cup Lens (Spot & Flood Combination) |
| Waterproof Rating | IP67 |
| Housing Material | Full Aluminum |
| Lens Material | Polycarbonate |
| Voltage | 12 Volts |
| Vehicle Fitment | 1997-2006 Jeep Wrangler TJ |
| Model Number | WHX-YY-300W5DHM-2P18WBS-BT-TJ-B-D4 |

4. SAFETY INFORMATION

Read and understand all safety warnings and instructions before installation and operation. Failure to do so may result in property damage, personal injury, or product malfunction.

- Always disconnect the vehicle's battery before performing any electrical work.
- Ensure all wiring connections are secure and properly insulated to prevent short circuits.
- Do not look directly into the LED lights when they are illuminated, as this may cause eye damage.
- Verify that the mounting location does not obstruct the driver's view or interfere with vehicle operation.
- Consult a professional if you are unsure about any part of the installation process.

5. SETUP AND INSTALLATION

This section provides general guidance for installing the LED light bar and pods. Specific steps may vary based on your vehicle's configuration. Professional installation is recommended.

5.1 Mounting Brackets Installation

The kit includes specific upper windshield mounting brackets for the 52-inch light bar and separate brackets for the 4-inch pods. These are designed for direct bolt-on installation on 1997-2006 Jeep Wrangler TJ models, requiring no drilling.

Premium Quality

For 1997-2006 Jeep Wrangler TJ



The bracket Made of heavy duty steel for superior strength and durability also coated with upgrade Anti-corrosion and rust resistance black powder makes it very durable and add on beautiful outlook.

Figure 5.1: Close-up view of the heavy-duty steel mounting brackets, coated for corrosion and rust resistance.

Attach the brackets to the designated locations on your vehicle's upper windshield frame and A-pillars using the provided hardware. Ensure they are securely fastened.

Conventional installation location

There are no restrictions on the installation of long lights, as long as there are locations to install.



Figure 5.2: Example of a conventional installation location for the light bar and pods on a vehicle's windshield frame.

5.2 Light Bar and Pods Mounting

Once the brackets are installed, attach the 52-inch LED light bar to the upper windshield brackets and the 4-inch LED pods to their respective brackets. Adjust the angle of the lights as needed for optimal illumination. The light bar features 360-degree adjustable mounting points.

Your browser does not support the video tag.

Video 5.1: Demonstration of FEELON YJ Mounting Brackets, showing their design and potential application for similar Jeep models like the TJ.

5.3 Wiring Harness Connection

Connect the provided wiring harness to the LED light bar and pods. The harness includes a switch for controlling the lights. Route the wiring safely, away from moving parts and heat sources, and secure it with zip ties or clips. Connect the harness to your vehicle's 12V power source, ensuring proper grounding.

6. OPERATING INSTRUCTIONS

The LED light bar and pods are designed for off-road use to enhance visibility.

6.1 LED Light Bar Operation

The 52-inch LED light bar provides a combination of spot and flood beams for broad and long-distance illumination. Activate the light bar using the switch on the wiring harness.



Figure 6.1: Illustration of the 5D reflective cup lens technology, providing both concentrated spot and wide flood light beams for comprehensive off-road lighting.

5D Double Row LED light bar



Single Row

Long Lighting Distance



Double Row

Long Lighting Distance & Wide View Area

Figure 6.2: Comparison showing the enhanced lighting distance and wider coverage area provided by a double-row LED light bar design.

6.2 LED Pods Operation (6 Modes)

The 4-inch LED pods offer six distinct lighting modes: White light, Amber light, White & Amber combined, White flash, Amber flash, and White & Amber strobe. To cycle through these modes, press the switch. If the switch is pressed within 3 seconds of the previous mode change, it will advance to the next mode. If more than 3 seconds pass, the pods will revert to the initial White light mode.

- **White Light:** Standard illumination.
- **Amber Light:** Enhanced visibility in fog, dust, or snow.
- **White & Amber:** Combined illumination.
- **White Flash:** Signaling or warning.
- **Amber Flash:** Signaling or warning.
- **White & Amber Strobe:** High-visibility warning.

IP67 Waterproof



Our LED Light Bar has a waterproof rubber stopper at the joint



Figure 6.3: Visual representation of the six distinct lighting modes available for the 4-inch LED pods, including white, amber, and various flashing/strobe combinations.

7. MAINTENANCE

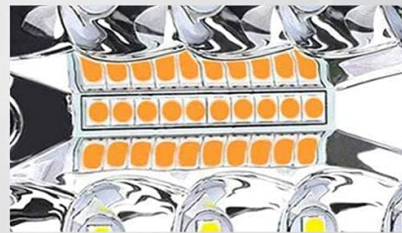
Regular maintenance ensures optimal performance and longevity of your LED lighting system.

- **Cleaning:** Periodically clean the lenses of the light bar and pods with a soft cloth and mild soap and water. Avoid abrasive cleaners that could scratch the lens.
- **Inspection:** Regularly check all mounting hardware for tightness. Inspect wiring for any signs of wear, fraying, or damage. Ensure all connections remain secure.
- **Waterproof Integrity:** The lights are rated IP67 for water and dust resistance. Ensure the waterproof rubber stopper at the joints remains intact to maintain this protection.

6 MODE



15° SPOT LIGHT



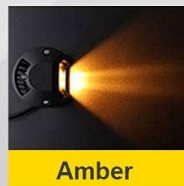
170° FLOOD LIGHT



White



White/Flash



Amber



Amber/Flash



White&Amber



White&Amber/Strobe

All off-road terrain suitable! bears whatever the road throws on it!

Figure 7.1: Illustration highlighting the IP67 waterproof design of the LED light bar, featuring a waterproof rubber stopper at the joint to protect against water ingress.

8. TROUBLESHOOTING

If you encounter issues with your LED lighting system, refer to the following common problems and solutions:

| Problem | Possible Cause | Solution |
|---------------------------------------|--|--|
| Lights do not turn on | No power, loose connection, blown fuse, faulty switch | Check power source, inspect wiring connections, replace fuse, test switch functionality. |
| Lights flicker or dim | Poor ground connection, insufficient voltage, loose wiring | Ensure secure ground, verify 12V supply, tighten all electrical connections. |
| LED pods do not cycle modes correctly | Incorrect switch timing | Ensure switch presses are within 3 seconds to advance modes. If not, it will reset to white light. |

| | | |
|----------------------|-----------------------------|---|
| Moisture inside lens | Compromised waterproof seal | Inspect rubber stoppers and seals for damage. Contact support if issue persists. |
|----------------------|-----------------------------|---|

9. WARRANTY AND SUPPORT

This FEELON product comes with a **1-year manufacturer's warranty** from the date of purchase, covering defects in materials and workmanship. This warranty does not cover damage caused by improper installation, misuse, accident, or unauthorized modifications.

For warranty claims, technical assistance, or any questions regarding your product, please contact FEELON customer support through your original point of purchase or visit the official FEELON website for contact information.