

Baja Designs 704003

Baja Designs 704003 S8 Series 40" LED Light Bar

Model: 704003 | Brand: Baja Designs

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Baja Designs 704003 S8 Series 40" LED Light Bar. Please read this manual thoroughly before installation and use to ensure proper function and safety.



Figure 1.1: Baja Designs 704003 S8 Series 40" LED Light Bar.

This image displays the complete Baja Designs 704003 S8 Series 40" LED Light Bar, showcasing its sleek design and array of LED emitters.

2. PRODUCT FEATURES

The Baja Designs 704003 S8 Series 40" LED Light Bar is engineered for high performance and durability in demanding environments. Key features include:

- **High Lumens Output:** Delivers 18,080 lumens of pure power for exceptional illumination.
- **Efficient Power Consumption:** Features a low amp draw of 13.32 amps, optimizing vehicle electrical system load.
- **Extended LED Life:** Designed for nearly 50,000 hours of LED life, ensuring long-term reliability.
- **Durable Construction:** Built with a clean aluminum frame for robust performance.
- **Advanced Optics:** Incorporates upgraded reflectors for enhanced light distribution.
- **Amber Backlit Feature:** Includes an amber backlit function for versatile lighting options.
- **Optimized Housing:** Features a new scalloped housing design for improved aesthetics and heat dissipation.

- **Waterproof Design:** Rated for waterproof performance, suitable for various weather conditions.

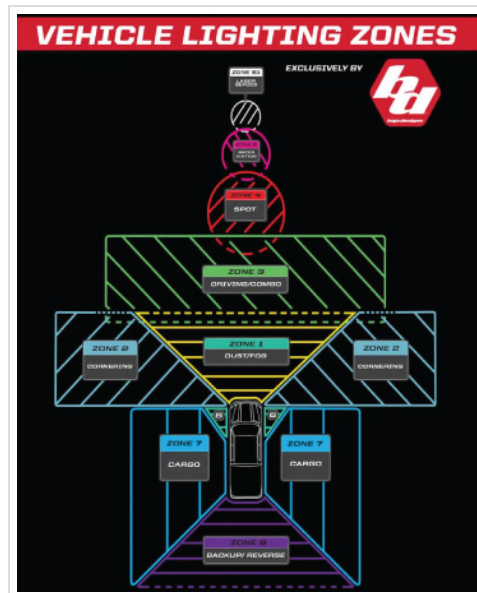


Figure 2.1: Vehicle Lighting Zones Diagram.

This diagram illustrates various lighting zones on a vehicle, demonstrating how different light patterns (e.g., driving/combo, spot, cornering) are utilized for optimal visibility in diverse off-road scenarios.

3. WHAT'S IN THE BOX

Your Baja Designs 704003 S8 Series 40" LED Light Bar package includes:

- One (1) Baja Designs 40 Inch LED Light Bar (Driving Combo Pattern S8 Series)
- All necessary hardware for installation.

4. SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of your LED light bar. While specific vehicle mounting points may vary, the general steps involve securing the light bar and connecting it to your vehicle's electrical system.

4.1 Mounting

1. Identify a suitable mounting location on your vehicle (e.g., bumper, roof rack). Ensure the location provides clear light projection and does not obstruct vehicle sensors or lights.
2. Use the provided hardware to securely attach the light bar to the chosen mounting surface. Ensure all bolts are tightened to the manufacturer's specifications.
3. Adjust the light bar's angle to achieve the desired beam pattern and coverage.

4.2 Wiring

1. Connect the light bar's positive (+) wire to a fused 12V power source (e.g., battery, auxiliary fuse box) capable of handling the 13.32 amp draw.
2. Connect the light bar's negative (-) wire to a suitable ground point on the vehicle chassis.
3. If using a wiring harness (sold separately), follow the harness instructions for connecting to a switch and relay.
4. Ensure all connections are secure and insulated to prevent short circuits and corrosion.

Your browser does not support the video tag.

Video 4.1: Baja Designs Manufacturing and Product Use.

This video provides insight into the manufacturing process of Baja Designs products and showcases various vehicles utilizing their lighting solutions in off-road environments, highlighting their performance and durability.

5. OPERATING INSTRUCTIONS

Once properly installed, operating your Baja Designs LED Light Bar is straightforward.

5.1 Powering On/Off

Activate the light bar using the connected switch. Ensure your vehicle's ignition is in the 'ON' position or the engine is running to provide power.

5.2 Beam Pattern

The 704003 model features a Driving Combo pattern, which provides a blend of wide-angle and spot illumination. This pattern is ideal for general off-road driving, offering both peripheral and long-distance visibility.



Figure 5.1: Vehicle with Baja Designs Light Bar in use.

This image shows a Jeep equipped with a Baja Designs light bar navigating an off-road trail at dusk, demonstrating the effective illumination provided by the light bar in low-light conditions.

6. MAINTENANCE

Regular maintenance will help preserve the performance and appearance of your light bar.

- **Cleaning:** Clean the lens and housing with a soft cloth and mild soap and water. Avoid abrasive cleaners or harsh chemicals that could damage the lens or finish.
- **Inspection:** Periodically inspect wiring for any signs of wear, fraying, or corrosion. Ensure all mounting hardware remains tight.
- **Lens Condition:** Check the lens for cracks or damage. While durable, severe impacts can compromise the waterproof seal.

7. TROUBLESHOOTING

If you encounter issues with your light bar, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Light bar does not turn on.	No power, loose connection, blown fuse, faulty switch.	Check power supply, inspect all wiring connections, replace fuse if blown, test switch functionality.

Problem	Possible Cause	Solution
Light output is dim or flickers.	Low voltage, poor ground connection, damaged wiring.	Verify proper voltage, ensure secure ground connection, inspect and repair damaged wiring.
Moisture inside the lens.	Compromised seal.	Contact Baja Designs support for assistance. Do not attempt to open the sealed unit.

8. SPECIFICATIONS

Detailed specifications for the Baja Designs 704003 S8 Series 40" LED Light Bar:

Specification	Value
Model Number	704003
Dimensions (L x W x H)	40 x 7 x 5 inches
Item Weight	10 Pounds
Material	Aluminum
Water Resistance Level	Waterproof
Lumens	18,080
Amp Draw	13.32 Amps
LED Life Expectancy	~50,000 hours
Pattern	Driving Combo

9. WARRANTY AND SUPPORT

Baja Designs stands behind the quality of its products. For specific warranty information, claims, or technical support, please refer to the official Baja Designs website or contact their customer service directly. Ensure you have your product model number (704003) and proof of purchase available when contacting support.

© 2023 Baja Designs. All rights reserved.



Baja Designs: The Scientists of Lighting

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question