

## Diode Dynamics DD6443P

# Diode Dynamics SSC1 LED Pod Instruction Manual

MODEL: DD6443P | BRAND: DIODE DYNAMICS

## Introduction

The Diode Dynamics Stage Series C1 LED Pod is engineered for maximum performance and light output in a compact and versatile package. Featuring custom-engineered TIR optics and a single high-power LED chip, the SSC1 is designed to direct light efficiently, reducing glare. Its small form factor allows for mounting in various locations on cars, trucks, motorcycles, or UTVs where larger pods may not fit. The pod also includes a distinctive backlight function, illuminating the TIR optic for unique accent lighting. Built for reliability, Stage Series LED lighting undergoes extensive testing for long-term operation across extreme temperatures, vibration, moisture intrusion, and corrosion, meeting SAE standards.

## Key Features

- Ultra-compact, single-LED form factor
- High-intensity 10-watt LED chip (Sport) or 20-watt LED (Pro)
- Backlighting available in amber, red, white, or blue
- Pin-fin heatsink design for superior thermal dissipation
- Integrated Deutsch-style connector for simple connections
- Custom-engineered TIR optics for focused light output
- Interchangeable lenses for different beam patterns (Wide, Flood, Spot)
- Available in standard and flush mount options

## Setup and Installation

The SSC1 LED Pods are designed for versatile installation. Their compact size allows them to fit in tight spaces. Each pod comes with a stainless steel bracket for mounting, which is highly adjustable. For specific mounting needs, GoPro-compatible mounting kits are also available, offering 90-degree and straight standard mounts, along with quick-disconnect snap-fit options. The integrated Deutsch-style connector simplifies wiring, connecting directly to your vehicle's harness.



Image: SSC1 LED Pod installed on a vehicle's roof rack, demonstrating its compact size and versatile placement.



Image: SSC1 LED Pod mounted on a vehicle's hood, showcasing its discreet integration.

Video: Official product video demonstrating the features, installation flexibility, and various applications of the SSC1 LED Pods.

## Operating Instructions

The SSC1 LED Pods offer various beam patterns and color options to suit different lighting needs. The primary

light output is available in a 6000K white or a selective yellow color, ideal for cutting through dusty or inclement weather conditions. The unique backlight feature provides accent lighting and automatically turns off when the main beam is activated, then reactivates when the main beam is off.

### Beam Patterns:

- **Flood:** Spreads light widely, illuminating a large area.
- **Spot:** Focuses light with TIR optics for maximum distance, directing light far down the road.
- **Wide:** A combination pattern providing a good amount of fill light, suitable for general use.

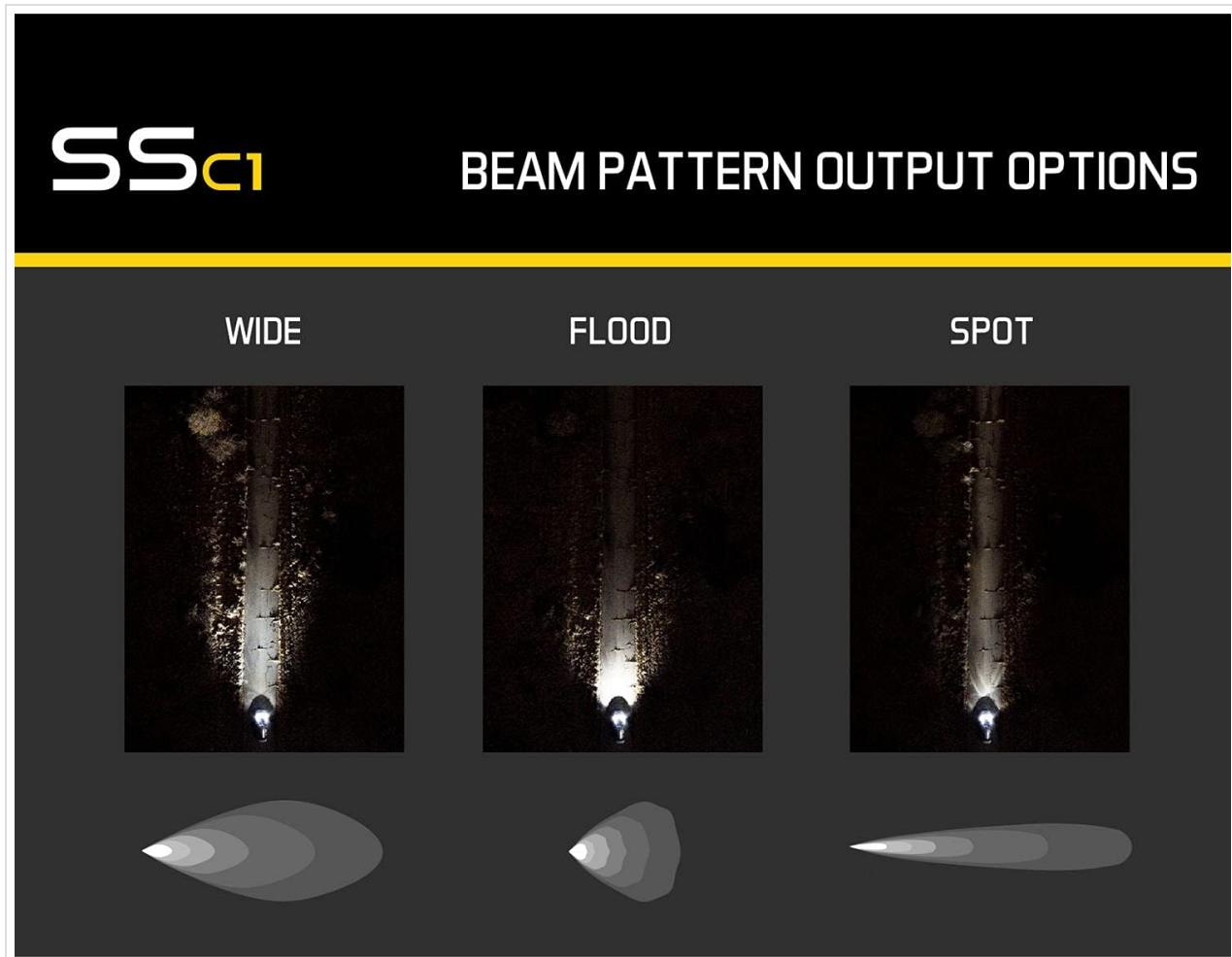


Image: Visual representation of the different beam patterns available: Wide, Flood, and Spot.

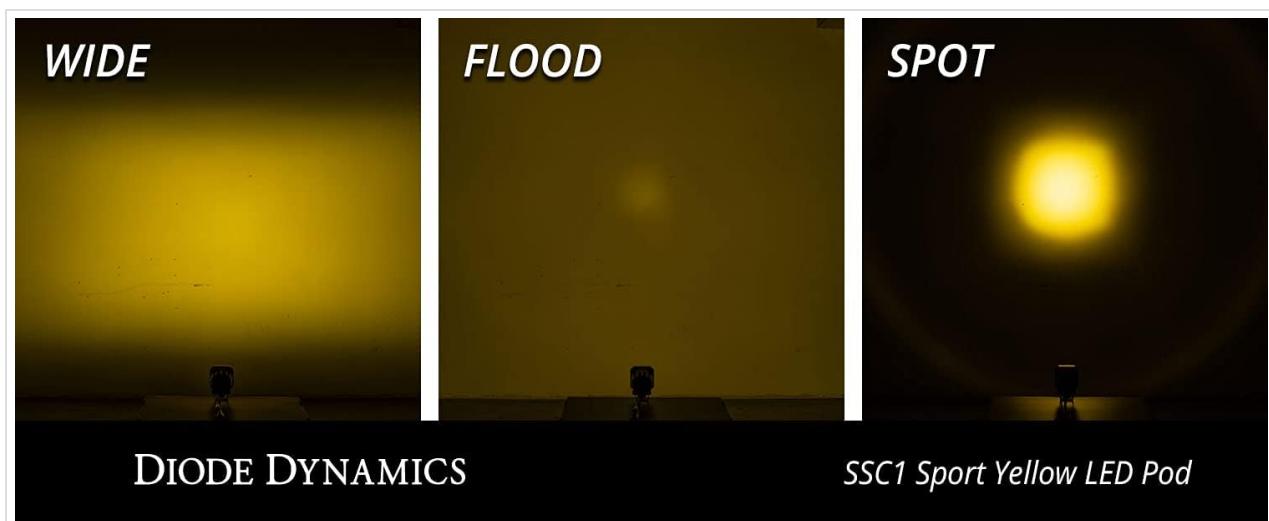


Image: Real-world comparison of the light output for Wide, Flood, and Spot patterns.

## Backlight Functionality:

The SSC1 features a distinctive backlight that fully illuminates the TIR optic, providing unique accent lighting. This backlight is available in various colors including amber, red, white, and blue. When the main beam is activated, the backlight automatically turns off, and it will turn back on when the main beam is disengaged. This allows for both functional illumination and stylish accent lighting.

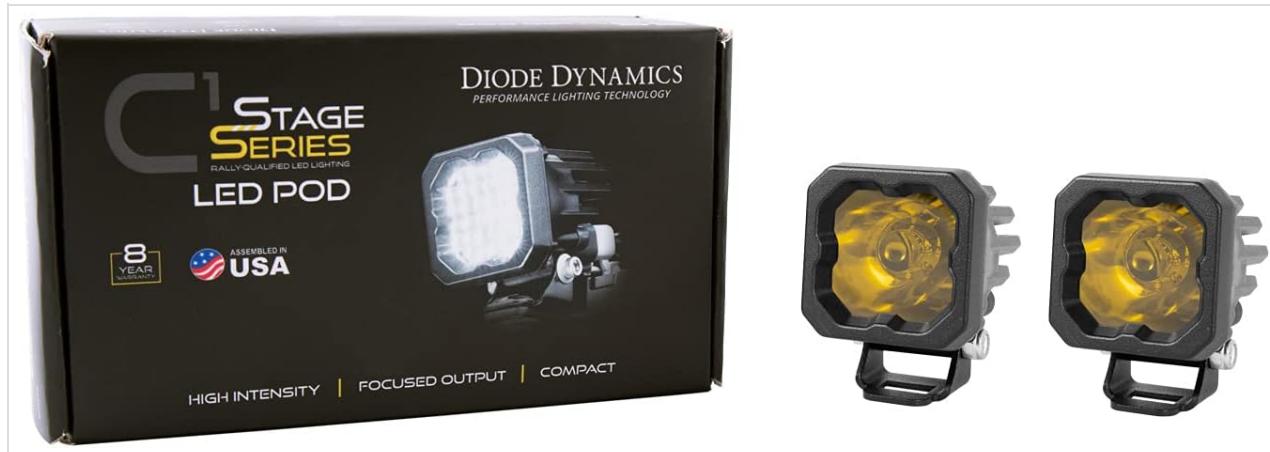


Image: SSC1 LED Pod showcasing its amber backlight feature.

## Maintenance

The SSC1 LED Pods are built for durability and long-term operation, having undergone rigorous testing for vibration, moisture intrusion, and corrosion. For maintenance or customization, the lenses are easily interchangeable. To change a lens, simply remove the four Torx screws on the back of the unit, pop out the existing lens, and replace it with a new one. This allows for quick changes to beam patterns or output colors as needed.

## Troubleshooting

If your SSC1 LED Pod is not functioning as expected, please check the following:

- Power Connection:** Ensure all wiring connections are secure and properly insulated. Verify that the integrated Deutsch-style connector is fully seated.
- Power Source:** Confirm that the light is receiving adequate power (12V DC). Check fuses and relays in your vehicle's electrical system.
- Lens Installation:** If light output is inconsistent or appears dim, ensure the lens is correctly seated and the Torx screws are tightened to prevent moisture ingress.
- Physical Damage:** Inspect the pod for any visible physical damage to the housing, lens, or wiring that might affect performance.

For further assistance, please refer to the warranty and support information below.

## Specifications

<b>Brand</b>	Diode Dynamics
<b>Model</b>	DD6443P: Stage Series C1 LED Pod Sport Yellow Wide Standard ABL Pair
<b>Color</b>	Amber Backlight
<b>Specific Uses For Product</b>	Grille Lights, Fog Lights, Signalling Light, Exterior

<b>Vehicle Service Type</b>	Passenger Car, Motorcycle, UTV, Truck
<b>Special Feature</b>	Waterproof
<b>Wattage</b>	12.8 watts
<b>Lens Color</b>	Amber
<b>Item dimensions L x W x H</b>	9 x 6 x 4 inches
<b>Item Weight</b>	1 pounds
<b>Country of Origin</b>	USA
<b>Assembly Required</b>	No
<b>UPC</b>	691026129310

## Warranty and Support

Diode Dynamics stands behind the quality of its products. The SSC1 LED Pods come with an 8-year warranty, ensuring long-term reliability and performance. For any questions, technical support, or warranty claims, please contact Diode Dynamics directly. As a manufacturer of automotive LED lighting products since 2006, Diode Dynamics focuses on developing unique products with the latest LED and optical technology.

For more information, visit the official Diode Dynamics website or contact their customer service department.

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