

## Blue Sea Systems 8206

# Blue Sea Systems 8206 Toggle Panel Switch Instruction Manual

Model: 8206

## 1. INTRODUCTION

Thank you for choosing the Blue Sea Systems 8206 Toggle Panel Switch. This manual provides essential information for the safe and effective installation, operation, and maintenance of your new switch. Please read these instructions thoroughly before proceeding with installation or use to ensure proper function and to prevent damage or injury.

## 2. SAFETY INFORMATION

Always observe the following safety precautions when working with electrical components:

- **Disconnect Power:** Ensure all power sources are disconnected before installing or servicing the switch. Failure to do so can result in electric shock, serious injury, or death.
- **Qualified Personnel:** Installation should be performed by a qualified electrician or technician familiar with marine or automotive electrical systems.
- **Correct Voltage:** Verify that the voltage and current ratings of your system are compatible with the switch specifications.
- **Proper Wiring:** Use appropriate wire gauges and connectors for your application. Ensure all connections are secure and insulated.
- **Environmental Conditions:** Install the switch in an environment suitable for its IP rating, protecting it from excessive moisture or extreme temperatures if not rated for such conditions.

## 3. PRODUCT OVERVIEW

The Blue Sea Systems 8206 is a robust Single Pole Double Throw (SPDT) toggle switch designed for panel mounting. It features an ON-OFF-ON operation mode, allowing for control of two separate circuits or functions from a single switch position. Its durable construction ensures reliable performance in various applications.



Figure 3.1: Front view of the Blue Sea Systems 8206 Toggle Panel Switch, showing the white toggle lever and black panel mount.

## 4. SETUP AND INSTALLATION

Follow these steps for proper installation of the 8206 Toggle Panel Switch:

1. **Panel Preparation:** Cut an appropriately sized hole in your mounting panel. Refer to the specifications section for exact dimensions. Ensure the panel thickness is within the switch's mounting range.
2. **Mounting:** Insert the switch into the prepared panel hole. Secure it using the provided mounting hardware (if applicable) or by tightening the retaining nut on the switch body until it is firmly seated.

3. **Wiring:** Identify the terminals on the back of the switch. The 8206 is an SPDT ON-OFF-ON switch, typically having three terminals: a common terminal and two switched terminals. Connect your power input to the common terminal and your two loads to the respective switched terminals. Ensure all connections are crimped securely and insulated.



Figure 4.1: Side view of the Blue Sea Systems 8206 Toggle Panel Switch, illustrating the terminal connections for wiring.

#### Wiring Diagram (Typical SPDT ON-OFF-ON):

**Common Terminal:** Connect to the positive (+) power source.

**Terminal 1 (e.g., ON position 1):** Connect to Load 1.

**Terminal 2 (e.g., ON position 2):** Connect to Load 2.

Always consult a wiring diagram specific to your application if available, or seek professional assistance.

## 5. OPERATING INSTRUCTIONS

The 8206 Toggle Panel Switch operates in an ON-OFF-ON configuration:

- **Position 1 (e.g., Up):** Activates the circuit connected to one of the switched terminals.
- **Center Position (OFF):** Disconnects power to both switched circuits.
- **Position 2 (e.g., Down):** Activates the circuit connected to the other switched terminal.

Move the toggle lever firmly to the desired position. The switch will latch into each position.

## 6. MAINTENANCE

The Blue Sea Systems 8206 Toggle Panel Switch is designed for minimal maintenance. However, periodic inspection is recommended:

- **Visual Inspection:** Periodically check the switch for any signs of physical damage, corrosion, or loose connections.
- **Cleaning:** If necessary, gently clean the exterior of the switch with a soft, dry cloth. Avoid using harsh chemicals or abrasive cleaners.
- **Connection Check:** Ensure all wire connections remain tight and secure. Loose connections can lead to overheating or intermittent operation.

## 7. TROUBLESHOOTING

If the switch is not functioning as expected, consider the following:

- **No Power:** Check the power source and ensure it is active. Verify that the common terminal is receiving power.
- **Load Not Activating:** Inspect the wiring to the load. Ensure the load itself is functional and properly connected. Check for blown fuses or tripped circuit breakers in the circuit.
- **Intermittent Operation:** This often indicates a loose connection. Disconnect power and re-check all wiring terminals for tightness.
- **Physical Damage:** If the switch lever is broken or the housing is damaged, the switch may need replacement.

If troubleshooting steps do not resolve the issue, contact Blue Sea Systems customer support or a qualified technician.

## 8. SPECIFICATIONS

Specification	Value
Brand	Blue Sea Systems
Model Number	8206
Mounting Type	Panel Mount
Operation Mode	ON-OFF-ON
Terminal Type	SPDT
Voltage Rating	120 Volts (AC)
Material	Metal, Plastic
Contact Material	Copper
Specification Met	UL
Product Dimensions	1 x 1 x 1 inches
Item Weight	1.6 ounces
UPC	735479036266

## 9. WARRANTY AND SUPPORT

For information regarding warranty coverage, technical support, or replacement parts for your Blue Sea Systems 8206 Toggle Panel Switch, please refer to the official Blue Sea Systems website or contact their customer service directly. Keep your purchase receipt as proof of purchase.