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## **BEP 900-3WPS**

# **BEP 900-3WPS Splash Proof Switch Panel Instruction Manual**

Model: 900-3WPS

## **1. INTRODUCTION**

This manual provides essential information for the safe and effective installation, operation, and maintenance of your BEP 900-3WPS Splash Proof Switch Panel. Please read these instructions thoroughly before proceeding with installation or use. Retain this manual for future reference.

## **2. SAFETY INFORMATION**

Always observe the following safety precautions to prevent personal injury and damage to the product or vessel:

- Disconnect all power sources before installing or servicing the switch panel.
- Ensure all wiring connections are secure and properly insulated to prevent short circuits.
- Verify that the voltage and current ratings of your electrical system are compatible with the switch panel.
- Install appropriate circuit protection (fuses or circuit breakers) for all connected circuits.
- Consult a qualified marine electrician if you are unsure about any aspect of the installation.

## **3. PRODUCT FEATURES**

The BEP 900-3WPS is a robust splash-proof switch panel designed for marine environments. Key features include:

- Compact panel size for versatile mounting.
- Three (3) toggle switches, rated at 20A DC.
- One (1) 12V power receptacle (16A).
- Waterproof rating to IP56 (for the 12V power receptacle in five and three way models).
- Includes sprayproof inline fuse holders with fuses.
- Supplied with a label sheet (LBL-WP) for switch identification.

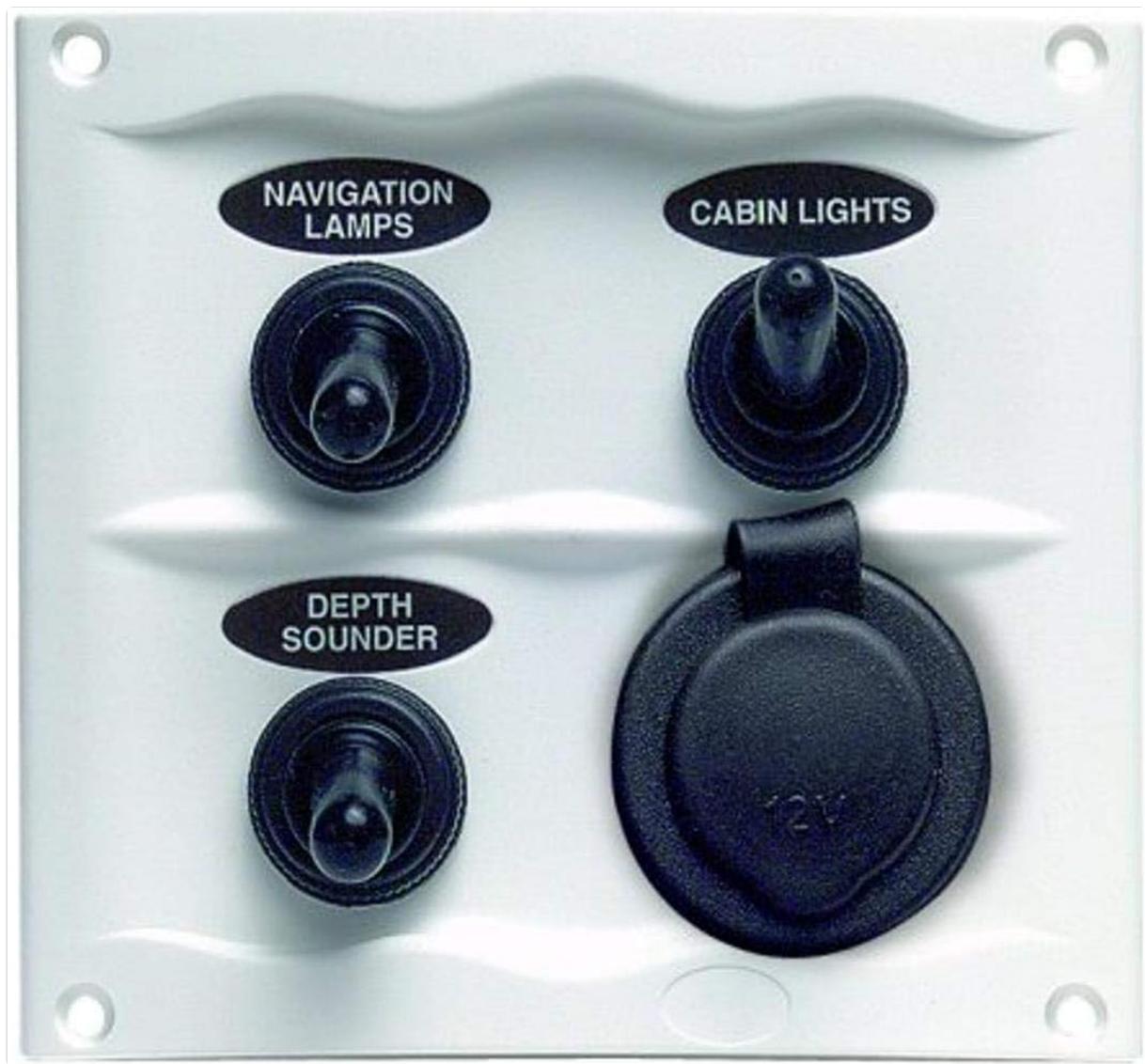


Figure 1: BEP 900-3WPS Splash Proof Switch Panel. This image displays the BEP 900-3WPS Splash Proof Switch Panel. The panel is white and features three black toggle switches, clearly labeled for 'NAVIGATION LAMPS', 'CABIN LIGHTS', and 'DEPTH SOUNDER'. Below the 'CABIN LIGHTS' switch, there is a black 12V power socket with a protective cap. The panel has mounting holes in each corner.

#### 4. SPECIFICATIONS

Specification	Value
Model Name	900-3WPS
Operation Mode	ON-OFF
Operating Voltage	12 Volts
Number of Positions	3 (for switches)
Switch Rating	20A DC
Power Socket Rating	16A
International Protection Rating	IP56 (for power receptacle)
Dimensions (L x W x H)	95 x 107 x 75 mm (3.75 x 4.25 x 2.9 inches)

Specification	Value
Terminal Type	Screw Terminals
Material	Metal (contacts)
Color	Black (switches/socket), White (panel)
Weight	8.8 ounces

## 5. SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of your switch panel. Follow these general guidelines:

- 1. Choose a Mounting Location:** Select a flat, secure surface in a protected area, yet accessible for operation. Ensure sufficient clearance behind the panel for wiring connections.
- 2. Prepare the Mounting Surface:** Use the panel as a template to mark the cut-out area and mounting screw holes. Carefully cut the opening and drill pilot holes for the mounting screws.
- 3. Wiring Connections:**
  - Connect the main positive (+) power supply to the panel's input terminal, ensuring it is protected by an appropriately sized fuse or circuit breaker.
  - Connect the negative (-) power supply to a common ground point.
  - For each switch, connect the positive (+) wire from the device (e.g., navigation lamps, cabin lights) to the output terminal of the corresponding switch.
  - For the 12V power socket, connect its positive (+) and negative (-) terminals to the appropriate power sources, ensuring it is also fused.
  - Utilize the provided inline fuse holders for additional circuit protection as needed.
- 4. Secure the Panel:** Mount the switch panel using appropriate fasteners, ensuring a tight seal if installed in an exposed area.
- 5. Apply Labels:** Use the supplied label sheet (LBL-WP) to clearly identify the function of each switch.
- 6. Test Functionality:** Once installed, reconnect power and test each switch and the 12V power socket to ensure correct operation.

## 6. OPERATING INSTRUCTIONS

The BEP 900-3WPS switch panel is designed for straightforward operation:

- Toggle Switches:** Each switch controls a connected electrical device. Move the toggle lever to the 'ON' position to activate the device and to the 'OFF' position to deactivate it. Refer to the labels for specific functions.
- 12V Power Socket:** This socket provides a 12V DC power output for compatible accessories. Remove the protective cap and insert the accessory's plug. Ensure the accessory's power requirements do not exceed the socket's 16A rating. Replace the cap when not in use to maintain splash-proof integrity.

## 7. MAINTENANCE

Regular maintenance will help ensure the longevity and reliable performance of your switch panel:

- Cleaning:** Periodically clean the panel surface with a soft, damp cloth. Avoid abrasive cleaners or solvents that could damage the finish or labels.

- **Connection Checks:** Annually, or as needed, inspect all wiring connections for tightness and corrosion. Loose or corroded connections can lead to poor performance or electrical hazards.
- **Fuse Inspection:** If a connected device fails to operate, check the corresponding fuse in the inline fuse holder. Replace blown fuses with new ones of the correct amperage rating.
- **Protective Cap:** Ensure the protective cap on the 12V power socket is always securely in place when the socket is not in use to maintain its splash-proof rating.

## 8. TROUBLESHOOTING

If you encounter issues with your switch panel, consider the following troubleshooting steps:

- **Device Not Activating:**
  - Check if the corresponding switch is in the 'ON' position.
  - Inspect the inline fuse for the circuit; replace if blown.
  - Verify all wiring connections are secure and free of corrosion.
  - Ensure the main power supply to the panel is active.
- **12V Power Socket Not Working:**
  - Check the fuse for the 12V power socket circuit.
  - Ensure the accessory is properly inserted and functional.
  - Verify the main power supply to the panel.
- **Intermittent Operation:**
  - Check for loose wiring connections at the switch panel or the device.
  - Inspect for signs of corrosion on terminals or wiring.

If problems persist after performing these checks, contact a qualified marine electrician or BEP customer support for assistance.

## 9. WARRANTY AND SUPPORT

For information regarding the product warranty, please refer to the documentation provided with your purchase or visit the official BEP Marine website. For technical support or further inquiries, please contact BEP customer service through their official channels.