



## Rewiring Your Existing Switch Panel (EZH-008)

### Installation Instructions

Your new EzAcDc [Rewire Your Own Panel Kit](#) greatly simplifies the complete rewiring of your boat's original equipment switch panel. It includes everything required to replace your older "dash harness" with multi-strand tinned wire that is pre-terminated to quickly snap together with all [EzAcDc harnesses](#) and other EzAcDc components, including [pumps](#), [lights](#) and [horns](#). It will also work excellently with your existing boat harness and components.

Your EzAcDc [Rewire Your Own Panel Kit](#) is pre-wired and terminated for seven of the most common switches and two accessory switches. They are:

1. Nav/anc light
2. Bilge pump
3. Aerator pump
4. Courtesy lights
5. Docking lights
6. Bilge blower
7. Horn
8. Accessory 1
9. Accessory 2

It is also pre-wired for two EzAcDc accessory harnesses, the EzAcDc stereo harness, and the EzAcDc 12v receptacle harness.

#### **Installation:**

**IMPORTANT Disconnect the battery, battery charger, inverter, shore power cable, or any other type of power source on the boat.**

If possible, remove existing switch panel from boat. This will make rewiring the panel considerably easier.

Make a diagram of your existing switch wiring or take a photo. Pay close attention to wire position and color. This will be very helpful when re-wiring your panel.

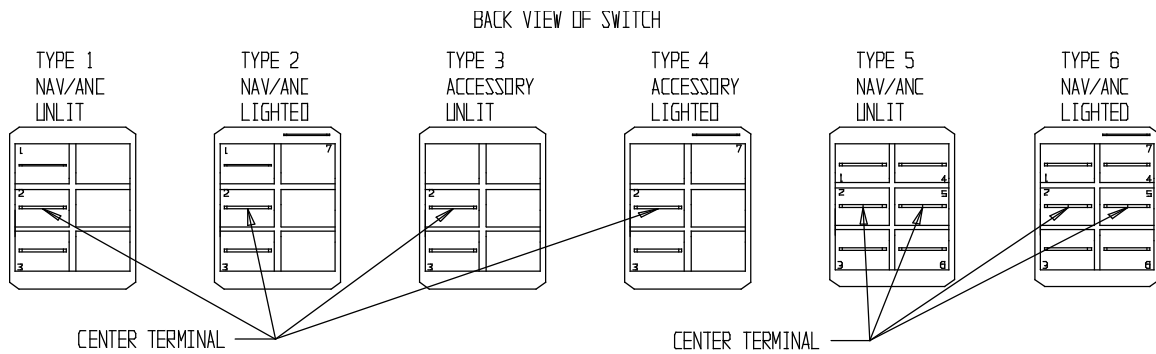
Remove all existing wires from switch panel.

If applicable, remove existing fuse block.

If replacing your boat harness using one of the [EzAcDc harnesses](#) make a diagram of your existing boat wiring or take a photo. Pay close attention to wire color and devices these wires are connected to. Remove

entire boat accessory harness. Do not remove engine control harness that connects between your engine, your ignition switch, and your instrumentation.

Install fuse block in dry area under helm that will allow access after installation and enough wire slack to allow the switch panel to be removed when it is completely wired.



## Individual Switch Wiring

### Navigation/Anchor Light Switch

- Locate nav/anc light switch/switches on your panel
- Locate the terminal position to be used as the power into the switch. This is usually one of the center terminals on the back of the switch.
- **IMPORTANT** – If your navigation/anchor light switch is similar to Type 1 or 2 (Single pole – dual throw) in the above illustration, the nav/anc diode assembly in the EzAcDc kit needs to be installed. This diode will connect between position 1 and position 3 on the switch. The arrow on the diode assembly needs to point toward position 1 on the switch.
- If your existing switch is similar to Type 1 or 2, attach one of the orange/gray wires from the nav/anc breakout on your EzAcDc harness to the center switch terminal position. If your switch has 2 center switch wire positions (similar to Type 5 or 6), attach both orange/gray wires from the nav/anc breakout on your EzAcDc harness to both center switch terminals. If your panel has separate navigation and anchor light switches, connect one of the orange/gray wires to one switch in the center terminal position and one of the orange/gray wires to the other in the center terminal position.
- Locate the terminal position to be used to turn on your forward (RED/GREEN) navigation lights. On a switch similar to Type 1 or 2 in the above illustration, the forward (RED/GREEN) navigation light would connect to position 3 or the lower position on the switch. On a switch similar to Type 5 or 6 in the above illustration, the forward (RED/GREEN) navigation light would also connect to position 3 or the lower position on the switch. Connect the gray/green wire from the nav/anc breakout on your EzAcDc harness to this terminal position.
- Locate the terminal position to be used to turn on your stern (White all-around) anchor light. On a switch similar to Type 1 or 2 in the above illustration, the stern (White all-around) anchor light would connect to position 1 or the upper position on the switch. Connect one of the gray/blue wires from the nav/anc breakout on your EzAcDc harness to this position. On a switch similar to Type 5 or 6 in the above illustration, the stern (White all-round) anchor light would connect to both position 4 and 6. Connect one of the gray/blue wires from the nav/anc breakout on your EzAcDc harness to position 4 on your switch and one of the gray/blue wires to position 6 on your switch.
- If your nav/anc light switch has an indicator light, it is usually controlled by connecting a ground wire to the output of the indicator light. Switches similar to Type 1 or 5 do not have lights. Lights in switches similar to Type 2 or 6 are controlled by adding a ground to Position 7 on the switch. Connect the black wire from the nav/anc breakout on your EzAcDc harness to this terminal position.

### Bilge Pump Switch

- Locate bilge pump switch on your panel. This switch will be similar to Type 3 or 4
- Locate the terminal position to be used as the power into the switch. This is usually one of the center positions on the back of the switch.
- Connect the orange/brown wire from the bilge pump breakout on your EzAcDc harness to this center position.
- Locate the terminal position to be used to turn on your bilge pump. On a switch similar to Type 3 or 4, this terminal would be the lower position on the switch. Connect the brown wire from the bilge pump breakout on your EzAcDc harness to this lower position
- If your bilge pump switch has an indicator light, it is usually controlled by connection a ground wire to the output of the indication light. Switches similar to Type 3 do not have a light. Lights in switches similar to Type 4 are controlled by adding a ground to position 7 on the switch. Connect the black wire from the bilge pump breakout on your EzAcDc harness to this terminal position.

### **Aerator Pump Switch**

- Locate the aerator pump switch on your panel. This switch will be similar to Type 3 or 4
- Locate the terminal position to be used as the power into the switch. This is usually one of the center positions on the back of the switch.
- Connect the orange/tan wire from the aerator pump breakout on your EzAcDc harness to this center position.
- Locate the terminal position to be used to turn on your aerator pump. On a switch similar to Type 3 or 4, this terminal would be the lower position on the switch. Connect the brown/orange wire from the aerator pump breakout on your EzAcDc harness to this lower position
- If your aerator pump switch has an indicator light, it is usually controlled by connection a ground wire to the output of the indication light. Switches similar to Type 3 do not have a light. Lights in switches similar to Type 4 are controlled by adding a ground to position 7 on the switch. Connect the black wire from the aerator pump breakout on your EzAcDc harness to this terminal position.

### **Courtesy Light Switch**

- Locate the courtesy light switch on your panel. This switch will be similar to Type 3 or 4
- Locate the terminal position to be used as the power into the switch. This is usually one of the center positions on the back of the switch.
- Connect the orange/purple wire from the courtesy light breakout on your EzAcDc harness to this center position.
- Locate the terminal position to be used to turn on your courtesy lights. On a switch similar to Type 3 or 4, this terminal would be the lower position on the switch. Connect the blue wire from the courtesy lights breakout on your EzAcDc harness to this lower position
- If your courtesy light switch has an indicator light, it is usually controlled by connection a ground wire to the output of the indication light. Switches similar to Type 3 do not have a light. Lights in switches similar to Type 4 are controlled by adding a ground to position 7 on the switch. Connect the black wire from the courtesy light breakout on your EzAcDc harness to this terminal position.

### **Docking Lights Switch**

- Locate the docking lights switch on your panel. This switch will be similar to Type 3 or 4
- Locate the terminal position to be used as the power into the switch. This is usually one of the center positions on the back of the switch.
- Connect the orange/lt blu wire from the docking light breakout on your EzAcDc harness to this center position.
- Locate the terminal position to be used to turn on your docking lights. On a switch similar to Type 3 or 4, this terminal would be the lower position on the switch. Connect the gray/black wire from the docking lights breakout on your EzAcDc harness to this lower position
- If your docking light switch has an indicator light, it is usually controlled by connection a ground wire to the output of the indication light. Switches similar to Type 3 do not have a light. Lights in

switches similar to Type 4 are controlled by adding a ground to position 7 on the switch. Connect the black wire from the docking light breakout on your EzAcDc harness to this terminal position.

### **Accessory 1 Switch**

- Locate the accessory 1 switch on your panel. This switch will be similar to Type 3 or 4
- Locate the terminal position to be used as the power into the switch. This is usually one of the center positions on the back of the switch.
- Connect the red wire from the accessory 1 breakout on your EzAcDc harness to this center position.
- Locate the terminal position to be used to turn on your accessory 1. On a switch similar to Type 3 or 4, this terminal would be the lower position on the switch. Connect the orange wire from the accessory 1 breakout on your EzAcDc harness to this lower position
- If your accessory 1 switch has an indicator light, it is usually controlled by connection a ground wire to the output of the indication light. Switches similar to Type 3 do not have a light. Lights in switches similar to Type 4 are controlled by adding a ground to position 7 on the switch. Connect the black wire from the accessory 1 breakout on your EzAcDc harness to this terminal position.

### **Accessory 2 Switch**

- Locate the accessory 2 switch on your panel. This switch will be similar to Type 3 or 4
- Locate the terminal position to be used as the power into the switch. This is usually one of the center positions on the back of the switch.
- Connect the red wire from the accessory 2 breakout on your EzAcDc harness to this center position.
- Locate the terminal position to be used to turn on your accessory 2. On a switch similar to Type 3 or 4, this terminal would be the lower position on the switch. Connect the orange wire from the accessory 2 breakout on your EzAcDc harness to this lower position
- If your accessory 2 switch has an indicator light, it is usually controlled by connection a ground wire to the output of the indication light. Switches similar to Type 3 do not have a light. Lights in switches similar to Type 4 are controlled by adding a ground to position 7 on the switch. Connect the black wire from the accessory 2 breakout on your EzAcDc harness to this terminal position.

### **Blower Switch**

- Locate the blower switch on your panel. This switch will be similar to Type 3 or 4
- Locate the terminal position to be used as the power into the switch. This is usually one of the center positions on the back of the switch.
- Connect the orange/yellow wire from the blower breakout on your EzAcDc harness to this center position.
- Locate the terminal position to be used to turn on your blower. On a switch similar to Type 3 or 4, this terminal would be the lower position on the switch. Connect the yellow wire from the blower breakout on your EzAcDc harness to this lower position
- If your blower switch has an indicator light, it is usually controlled by connection a ground wire to the output of the indication light. Switches similar to Type 3 do not have a light. Lights in switches similar to Type 4 are controlled by adding a ground to position 7 on the switch. Connect the black wire from the blower breakout on your EzAcDc harness to this terminal position.

### **Horn Switch**

- Locate the horn switch on your panel. This switch will be similar to Type 3.
- Locate the terminal position to be used as the power into the switch. This is usually one of the center positions on the back of the switch.
- Connect the orange/white wire from the horn breakout on your EzAcDc harness to this center position.

- Locate the terminal position to be used to turn on your horn. On a switch similar to Type 3, this terminal would be the lower position on the switch. Connect the white/orange wire from the horn breakout on your EzAcDc harness to this lower position

If your boat does not have these switches, secure the extra wire pigtail to the other helm wiring and remove the appropriate fuse from the panel.

### 3 Position Accessory Harness Connectors

#### Accessory 1

- Connects to any EzAcDc accessory harness. Accessory will have constant power from the Accessory 1 fuse and switched power from the Accessory 1 switch.

#### Accessory 2

- Connects to any EzAcDc accessory harness. Accessory will have constant power from the Accessory 1 fuse and switched power from the Accessory 2 switch.

#### Stereo

- Connects to EzAcDc stereo harness. Stereo will have constant power from the stereo fuse.

#### 12V Receptacle

- Connects to EzAcDc 12V receptacle harness. 12v Receptacle will have constant power from the stereo fuse.

### 12 Position Helm to Boat Harness Connector

- Connects to any [EzAcDc boat harness](#).
- Connects to 6" power jumper to allow connection to old boat harness

### 6" Power Jumper Installation

- Connects EzAcDc switch panel to existing boat harness.
- Allows electrical connection to boat harness without modifying switch panel wiring.
- Using your diagram, photos, and a multimeter connect your wires:
  - Black – Ground – Must go to battery or negative buss
  - Brown/Orange – Aerator
  - RED – 12v power
  - Gray/Black – Docking Lights
  - Gray/Blue – Anchor/Stern Light
  - Gray/Green – Navigation/Bow Light
  - Orange/White – Horn
  - Brown – Bilge Manual
  - Blue – Courtesy Light
  - Brown/Red – Bilge Auto
- If boat doesn't have these components, simply tie up the unused wire and save it for when you add that component.

### Final details

- Reconnect battery
- Confirm that all circuit work properly
- Tie up extra wires with nylon cable ties or equivalent

