

Small Pontoon Boat Switch Panel Installation Instructions

Thank you for your purchase of the PontoonStuff.com Pontoon Boat Switch Panel. This OEM quality panel is engineered to be easy to install, long lasting, and trouble free.

Preliminary

- Disconnect all connections to the battery.
- Unwrap your new switch panel being careful not to cut or damage any wires or switches.
- Locate the following connections:
 - Main helm connection – 12 position white nylon connector
 - Helm mounted horn wires - orange/white and black wires
 - Switched accessory wires - 2 sets of orange and black wires.

Mounting Location

- Your new switch panel measures 7 ¾" wide by 4 ½" high. This panel needs at minimum an area that is 7 ¾" wide by 4 ½" high and requires a mounting depth of 3 ½". Even though the components only require 1 ¾" of depth, another 1 ¾" is required for the wires and connectors.
- The panel should be mounted in an area that is easily accessible but out of high traffic areas to prevent accidental switching. If the panel must be mounted horizontally, ensure water cannot pool on the panel. The panel mounted breakers are water resistant, but long term water pooling will eventually cause failures.

Installation

- Cut a rectangular hole in the mounting area that is 6 ¾" wide by 3" high. Use the attached cutout template if necessary.
- To ensure proper printing scale, please take time to measure the printed cutout to ensure it is 6 ¾" wide by 3" high before cutting your helm.
- Test fit the switch panel. If panel fits flat and straight, mark the four mounting holes using either the panel or the cutout template. If not, slightly increase the hole size until the panel fits properly.
- Drill ⅝" holes and secure panel using #8 pan head screws (not included).

Wiring (Main connector)

- If combining your new switch panel with a Pontoon Stuff Pontoon Boat Wiring Harness, simply plug the 12 position connector on the switch panel directly into the mating plug on the wiring harness and skip to the next section - Wiring (accessory connections).
- If connecting your new switch panel to your existing harness, use the included 12 position adaptor to connect to your wiring per the following:
 - Black - Ground - connect to main ground lead or helm ground bus. It is recommended that the ground lead running from the helm to the battery be at least a 12 AWG wire. Smaller wire may lead to a lower voltage supply to the panel and cause electronics to malfunction.

- Brown/orange - connect to the existing livewell pump wire. If your boat doesn't have a livewell pump, but has some other DC accessory on the boat (courtesy light, underwater light, etc), this lead can be used to power that device as long as it draws less than 10 amps. The wire corresponding wire for the livewell pump is not connected to a switch. If you are connecting a livewell (or other device), you will need to decide which switch will control it. Remove the wire on the bottom tab of any of the 3 accessory switch (gray/black, orange, or orange). Connect the brown/orange wire to this tab.
- Red - 12v+ power - connect to your existing helm main power feed. This main power feed wire should be at least a 12 AWG wire. Even though an inline fuse is included in the panel wiring adaptor, it is strongly recommended to install a fuse or breaker in your main power wire as close as possible to the battery.
- Gray/black - Docking light - connect to your existing docking light wire. Once connected, the center ACC switch will now control your docking lights. As with the brown/orange wire, any DC device that draws less than 10 amps can be connected to this switch. Keep in mind, the switch will say ACC.
- Gray/blue - Stern-White Navigation light - connect to your existing white stern navigation light. Once connected, the stern light will illuminate when the Nav/Anc switch is in both the Navigate and Anchor positions.
- Gray/green - Forward-Red/green Navigation light - connect to your existing red and green navigation lights. Once connected, the red/green lights will illuminate when the Nav/Anc switch is in the Navigate position but not in the Anchor position.
- Orange/white - Horn - connect to your existing horn wire. Once connected, your horn will sound when the momentary HORN button is pushed.

Wiring (accessory connections)

- Orange/white and black - Helm mounted horn - Use this set of wires if your boat is equipped with a horn in the helm and not on the bow of the boat. Connect the orange/white wire and black wire directly to your helm mounted horn. If your boat does not have a helm mounted horn, simply coil up the extra wire and secure it to the back of the panel wiring using a nylon cable tie.
- Orange and black (x2) - DC accessory - if your boat has a DC accessory that you would like to control with a switch, simply connect the orange wire to the + (positive) connection on the device and the black wire to the - (negative) connection on the device. The right two ACC switches control these two sets of wires. Simply trace the orange wire back through the panel wiring to determine which switch controls which set of output wires.

Final Steps

- Reconnect the battery.
- Try each circuit individually. Ensure that all functions work properly. Keep in mind, most of the time there is a very simple solution to a circuit that doesn't work properly. With LED lights, it is usually reverse polarity. With incandescent lights, it is usually a bad bulb connection or a burnt out bulb. With navigation lights, the gray/blue and gray/green wires are swapped.
- Tie up all excess wire. Connections will pull loose if excess slack is allowed to pull on them when the boat is underway.

Outside edge of panel
for reference only

