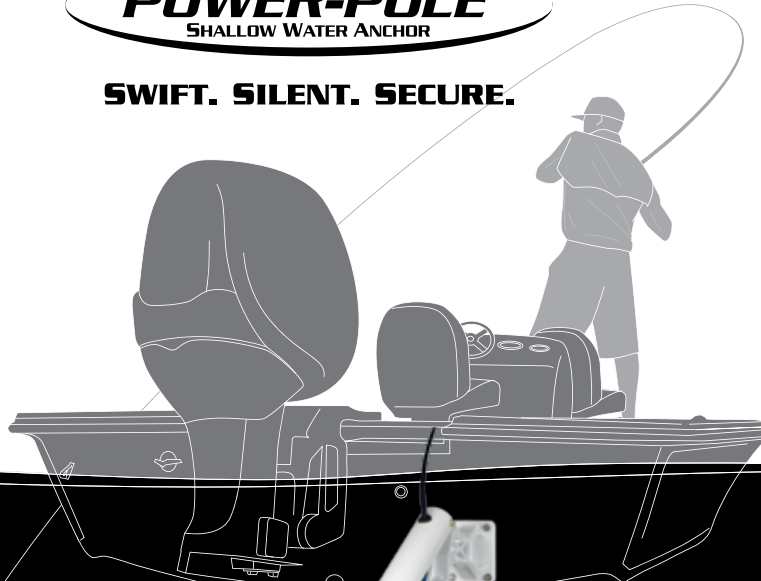




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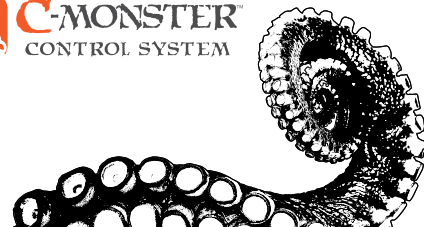
**SPORTSMAN**

# INSTALLATION MANUAL

Powered by



**C-MONSTER™**  
CONTROL SYSTEM



**Congratulations on your purchase of a Power-Pole® shallow water anchor** featuring C-Monster Control System. It has been designed, engineered, and manufactured to provide the best possible performance and dependability. Please read all installation instructions carefully.

The information contained here describes the proper procedures for safely installing your Power-Pole shallow water anchor.

# INSTALLATION



## INSTALLATION TOOLS

- 1/2" & 9/16" & 7/16" wrenches
- 1/2" & 9/16" sockets with ratchet
- Electric or battery operated drill
- 7/64", 9/64", 11/32", 5/16" drill bits
- #2 Phillips-head bit or screwdriver
- Small slotted (flat-headed) screwdriver
- Heat gun
- 4' foot straight edge
- Marine grade sealant
- Fine point marker
- Tape measure
- Wire cutters
- Wire strippers
- Wire terminal crimpers
- Razor tubing cutter or utility razor blade
- Small funnel

## INSTALLATION HARDWARE

- A Qty(4) 5/16" x 3.5" all-thread transom mount bolts
- B Qty(4) 5/16" neo-bond washers
- C Qty(4) 5/16" fender washers
- D Qty(4) 5/16" tall brass nuts
- E Qty(2) 3/8" x 3/4" bolts
- F Qty(2) 3/8" neo-bond washers
- G Qty(2) #8 x 3/4" flat head screws
- H Qty(4) #10 x 3/4" pan head screws
- I Qty(1) rubber pump gasket
- J Qty(2) ring connectors
- K Qty(2) thru-hull bushings
- L Qty(3) marine cable ties
- M Qty(1) 5' black mesh tubing cover
- N Qty(1) adhesive strip



# STEP 1 Choose A Mounting Location

## Transom Mounting

### VERTICAL POSITIONING

1. Place a straight edge on the bottom of the hull directly below and centered from the desired mounting location. The lowest point of the Power-Pole anchor must be at least 4" above this straight edge or the vessel may experience adverse handling effects. (**FIG. 1**)

**NOTE:** If the vessel is equipped with trim tabs that measure 9" or less in length, the standard 4" minimum mounting height will be sufficient. If the trim tabs are larger than 9", the Power-Pole anchor will need to be mounted higher up on the transom to prevent interference.

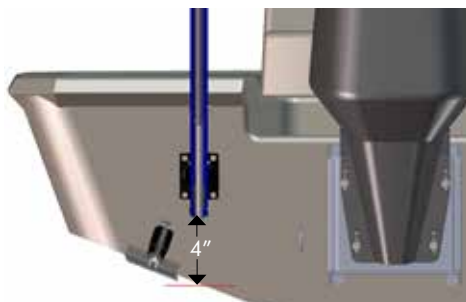


Figure 1

2. While holding the Power-Pole anchor in place, turn and tilt the motor as far as possible toward the unit. With the motor turned toward the unit, manually move the anchor through its entire range of motion to verify clearance.
3. Once clearance has been verified on the exterior portion of the vessel, check for adequate space on the inside of the transom mounting area. Make sure that the bolts will not have any obstructions and that you will have space to tighten the 5/16" tall brass nuts **D**.

## Adapter Plate Mounting

1. Please contact one of our authorized dealers or visit [www.power-pole.com](http://www.power-pole.com) and click on "Find your Adapter Plate." For technical support call **1+ (813) 689-9932 option 2.**

# STEP 2 Mounting The Anchor

1. Place the stern bracket against the transom, mark the mounting hole locations and drill with a 5/16" drill bit.
2. Apply a liberal amount of marine grade sealant between the stern bracket and the hull, as well as around the 5/16" holes.
3. With a 1/2" wrench and 1/2" socket, fasten the stern bracket to the transom using (4) 5/16" x 3.5" all-thread transom mount bolts **A**, (4) 5/16" neo-bond washers **B**, (4) 5/16" fender washers **C**, and (4) 5/16" tall brass nuts **D**. The rubber backed neo-bond washers **B** will protect the powder coated surface of the stern bracket and they must not be over tightened. (**FIG.2**)

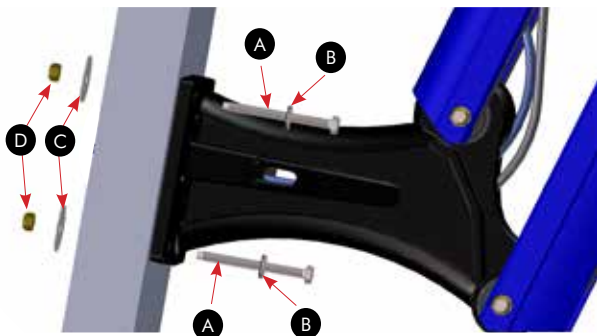


Figure 2

**IMPORTANT:** Unit must be through bolted to transom.

# STEP 3 Hydraulic Pump Unit (HPU)

## Choose a mounting location

1. Locate a dry compartment in the vessel with ample space to accommodate the HPU. The footprint of the HPU is approximately 6.5" x 7".

**NOTE:** Be sure to allow enough clearance surrounding the HPU such that the hydraulic tubing will not make a severe bend when exiting the compartment. Also, allow enough space to install the (2) 3/8" x 3/4" bolts **E** through the mounting bracket and into the HPU.

# STEP 4 Installing The HPU

1. Remove the fill cap on the HPU and fill the reservoir to the "full" line with the supplied quart of Green Marine® biodegradable hydraulic fluid or an ISO 32 hydraulic fluid.

**WARNING:** Using anything other than an ISO 32 hydraulic fluid, such as Green Marine, may cause damage to the HPU, and will void your warranty.

2. Place the HPU bracket in the predetermined area of the vessel and mark the four mounting hole locations with a fine point marker.

**WARNING:** Before drilling holes to mount the HPU mounting bracket, inspect the area beneath the mounting surface to insure that the drill bit will not cause any damage.

3. Drill a hole into each of the marked hole locations with a 9/64" drill bit.

4. Fasten the bracket to the vessel using a #2 Phillips-head screwdriver and the (4) #10 x 3/4" pan head screws **H**. (FIG. 3)

5. Once the bracket is securely fastened, use a 9/16" wrench to attach the HPU to its bracket using the (2) 3/8" x 3/4" bolts **E**, (2) 3/8" neo-bond washers **F**, and (1) rubber pump gasket **I**. (Figure #4)

**NOTICE:** This HPU will draw current (40 mA) from the battery source when not in use. JL Marine Systems, Inc. strongly recommends the use of a battery disconnect switch.

6. Route the red wire to a 12 Volt positive source via a battery switch and trim the wire to length.
7. Route the black wire to a 12 Volt negative source via a common ground post and trim the wire to length.
8. Install the (2) ring connectors **J** using wire strippers and wire terminal crimpers.
9. Heat the (2) ring connectors **J** with a heat gun until their respective jackets shrink completely and adhere to the wires.

**WARNING:** DO NOT CONNECT the red or black wire at this time. These wires will be connected once the hydraulic tubing is installed.



Figure 3

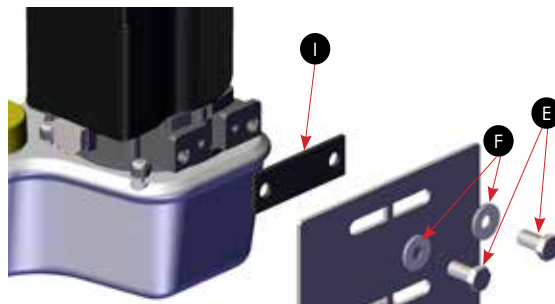


Figure 4

# STEP 5 Installing The Hydraulic Tubing

1. Guide the blue and black hydraulic tubing through the black mesh tubing cover

**WARNING:** Keep debris out of the hydraulic tubing. Use the red end caps provided at all times while routing the hydraulic tubing throughout the boat. Debris in the tubing will cause damage to the HPU.

2. The hydraulic tubing may be routed either over the transom or through the transom. (**FIG. 5-8**). If the hydraulic tubing is not being installed through the transom, route the tubing to the HPU and proceed to Step 4 below.

**IMPORTANT:** Be sure to allow an adequate amount of slack in the hydraulic tubing between the stern bracket and the point that the tubing enters the vessel. This will provide for full up and down operation.

3. Mark and drill holes in the transom with a 11/32" drill bit above the water line spaced 1/4" apart. Insert the (2) thru-hull bushings (K), and route the tubing to the HPU. (**FIG. 9 & 10**)

4. Trim the excess tubing with a razor. All cuts made in the tubing must be as straight as possible to ensure that the compression fittings do not leak.

5. Remove the blue and black dust caps from the hydraulic compression fittings on the HPU.

6. Remove the **"Insert Blue Tubing Here tag"** and push the blue tubing into compression fitting. Hold the blue tubing fully inserted into the compression fitting base and begin threading the compression fitting nut onto the base. Repeat this step for the black tubing. (**FIG. 11 & 12**)

**NOTE:** The tubing needs to pass through the ferrule far enough such that there is approximately a 1/2" length of tubing exposed. (**FIG. 11**)

7. Tighten both compression fitting nuts with a 9/16" wrench while holding their respective bases with a 1/2" wrench. (**FIG. 13**)

**WARNING:** The nuts must be tightened down far enough so that none of the compression fitting's threads are visible, failure to tighten completely may cause hydraulic failure. (**FIG. 14**)



Figure 5 Blade



Figure 6 Pro II & Sportsman



Figure 7 Blade



Figure 8 Pro II & Sportsman

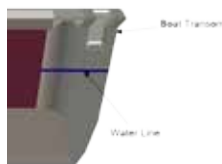


Figure 9

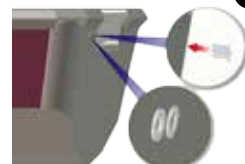


Figure 10

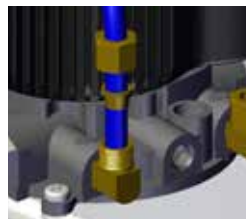


Figure 11

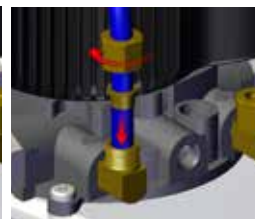


Figure 12

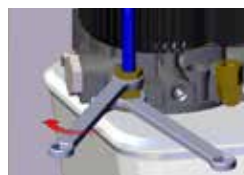


Figure 13

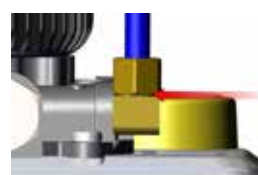


Figure 14

## STEP 6 Priming The HPU

1. Connect the red fuse holder ring terminal to the main battery cut-off switch and the black ring terminal to the negative post on the cranking battery. The LED light on the top of the HPU should begin flashing green.
2. In the deployed and stored positions, keep the UP and DOWN button pressed for 10 seconds in order to bleed all residual air from hydraulic tubing. (**FIG. 15**)

**NOTE:** The HPU will have a high pitch whining sound while priming until air has dissipated from hydraulic fluid.

3. The HPU's hydraulic fluid level may need to be topped-off after the final priming has been completed.



Figure 15

## STEP 7 Programming Dual Units

**NOTE:** Each anchor is preprogrammed as a single unit. When using only one anchor do not program as a port or starboard.

1. Determine which HPU controls the starboard side Power-Pole anchor using the UP & DOWN buttons on both HPUs. (**FIG. 16**)
2. Locate the PROGRAM button on the top of the starboard HPU. Depress and hold it for 6 seconds until the LED flashes red and 2 chimes are heard followed by a single beep. (**FIG. 17**)
3. Next, depress and release the UP button. The LED will flash red 1 time with a single beep indicating that the HPU has been assigned as the starboard side unit. Press and release the PROGRAM button to save and exit. The LED will flash red 1 time with a single beep followed by 2 consecutive beeps.
4. On the port side HPU, repeat Step 2 to enter programming mode. Next, depress and release the DOWN button on the HPU. The LED will flash red twice with 2 consecutive beeps indicating that the programming has been completed successfully and the HPU has been assigned as the port side unit. Press and release the PROGRAM button to save and exit. The LED will flash red 2 times with a double beep followed by 2 consecutive beeps.

**NOTE:** For additional menu settings please refer to the Owner Guide.



Figure 16



Figure 17

## STEP 8 Pairing Dual Units To A Single Wireless Controller

**NOTE:** The Power-Pole anchor comes paired to the included Dash Switch and Key Fob remotes. When installing dual anchors, you can program a single Dash Switch and/or Key Fob remote to control both units as follows:

1. Determine which unit is paired with the controller by pressing the UP or DOWN button.
2. Locate the PROGRAM button on the top of the other HPU. Depress and hold it for 3 seconds until the LED turns solid green in color and a single beep is heard.
3. Press the UP or DOWN button on the controller until the unit moves or responds (**FIG. 18**)



Figure 18

## STEP 9 Installing The Dash Switch

1. Locate a suitable area with a flat surface to mount the Dash Switch.
2. Mark and drill a pilot hole with 7/64" drill bit to fasten switch using the (2) flat head screws **G** supplied (do not over tighten). Or you may choose to use the supplied adhesive strip **N** instead (not shown).



**CAUTION:**

Do not use the Power-Pole shallow water anchor as your primary anchorage.  
Never leave your boat unattended while anchored solely with the Power-Pole shallow water anchor.

US Pat No. 6,041,730

Need help? Contact our Technical Support Team at

**1 + 813.689.9932 option 2**



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