



# Trouble-shooting Guide for Ignition Protected Thrusters



*Side-Power ignition protected thruster motors cannot be serviced in the field, they must be returned to your local distributor for servicing in order to maintain their ignition protection. This trouble-shooting guide will assist in determining if the thruster motor needs to be serviced.*

*The control harness of Side-Power ignition protected motors is sealed where it exits the motor IP housing. They are 23' (7m) long and are run to the control panel. All control signal testing is done at the control panel and cannot be performed at the motor.*

*Removal of the motor for service may require cutting the control harness. Special care must be taken when re-installing the motor to ensure ignition protection is maintained. Follow Side-Power's replacement procedures for ignition protected motors. Procedures can be downloaded at [www.side-power.com](http://www.side-power.com)*

**Note:** These trouble-shooting procedures require attempting to run the motor by bypassing the control panel. Special precautions must be taken when running the thruster when the thruster props are out of the water.

**Do not** change direction until the motor has come to a complete stop or solenoid damage will occur.

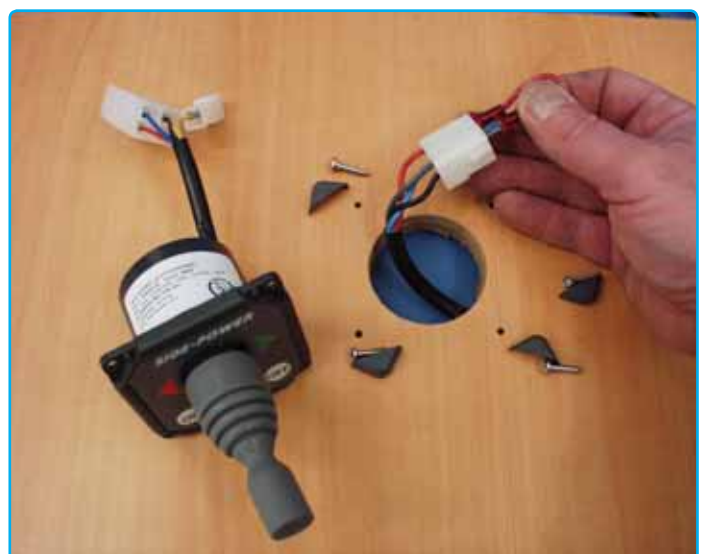
**Do not** run the motor in excess of 1 second.

## Section A: If control panel turns on but thruster will not run, or runs in only one direction.

### • A1

Unplug control harness from control panel. On the control harness plug, jump red to blue for a starboard run, and red to grey for a port run.

- If the thruster runs properly in both directions then the control panel needs to be replaced.
- If the thruster runs in only one direction then return the motor to your local Side-Power distributor for service.
- If the thruster doesn't run in either direction proceed to step A2.



• **A2**

With red to blue or red to grey on the control harness, verify battery voltage on the thruster motor terminal blocks.

- If battery voltage is present, return motor to your local Side-Power distributor for service.
- If battery voltage drops out on the motor terminal blocks when red to blue or red to grey is jumped, locate where voltage drops out. This can occur if the fuse is partially blown or if the battery switch is damaged. Check voltage on both positive and negative side of each of these.



## Section B: If control panel does not turn on.

• **B1**

Check for battery voltage across red and black wires of the control harness.

- If battery voltage is present then the control panel needs to be replaced.
- If battery voltage is not present then confirm battery voltage on the motor terminal blocks. If voltage is present at the motor terminal blocks, but not on red and black of the control harness, then return motor to your local Side-Power distributor for service.



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