



Royce Industries

SENDER INSTALLATION INSTRUCTIONS

eel-01

Royce Industries, Inc. 1536 New Britain Ave. Farmington, CT 06032 1-866-241-5656 Fax (860) 674-2727 www.royceind.com

***Owners and installers must read
the installation instructions and carefully note the warnings!***



**Disconnect power source Prior to starting
sender Installation.**

Step 1: Verify Sender and Gauge compatibility. (Optional)

Note: This step is not required but it will prevent installation of non compatible sender.
(The sender and gauge will not work properly unless output signals match.)

- Disconnect power source to the fuel or water gauge.
- Temporarily connect the red wire of the Royce sender to the (S) Terminal of the gauge.
- Temporarily connect the black wire of the sender to the negative terminal of the gauge.
- Restore power to the gauge and move the float up and down the stem of the sender. The gauge should read full when the float is at the top of the sender and empty when the float reaches the bottom.
- If the gauge works correctly proceed to step 2. If the gauge does not work correctly, contact Royce Industries for technical assistance. We can be reached at 1-866-241-5656 Monday – Friday between 8-5 pm eastern time.
- Disconnect power to the gauge before proceeding.



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Step 2: Install Sender in tank

- Disconnect power source to the fuel or water gauge.
- When removing and replacing a sending unit. Always replace the old gasket on 5-hole flange style mounting. Gasket is included with Royce senders. Care should be taken to line up gasket mounting holes (They will only line up one way). If a gasket sealer is used it must be approved for the media it is to be in and must not be corrosive or alter the chemical composition of the gasket, sender or tank material.
- Install mounting screws (not included). All screws must be installed evenly and in a star pattern.
 - * Note: Do not over torque any one screw. Screws should be snug before final torque (approx. 18 in/lbs) is applied. Final torque must also be in a star pattern.
- Leak Test - Pressure test must be performed to guarantee air tight seal between tank, gasket and sender.
 - * Note: Do not over pressurize the tank. This could stress the tank and cause leakage. Consult tank manufacturer for tank pressure ratings before performing any pressure test.

***** Warning: Disconnect power source to the fuel or water gauge before proceeding to step 3 .**

Step 3: Electrical wiring

- * Note: Only use stranded insulated wire no small than 18 AWG that is approved for marine use. It is recommended that insulated wire terminals be used on all connections to the sender.
- Connect the red wire of the sender to the (S) terminal on the back of the fuel or water gauge.
- Connect the black wire of the sender to the negative battery power.
- (optional on flange mounting only) Connect a wire from the stud mounted on the flange of the sender to the negative battery power. This insures that the metal parts of the sender are grounded to the boats grounding system to help prevent electrolysis. Connecting this stud to ground is not necessary to the operation of the gauge or the sending unit.
- Reconnect the gauge to power and check to see that the gauge reads the correct liquid level in the tank.