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Fuel Level Sender Accuracy

Models Affected

All vessels utilizing the SmartCraft fuel level monitoring capability

Situation

Boat owners with SmartCraft fuel tank gauges may experience inaccurate readings. The most common source of inaccurate SmartCraft fuel level readings are:

- Utilization of fuel level senders with non-sealed rheostats.
- Improper fuel level sender calibration.
- The float style fuel level sender potentiometer has "dead" areas that arise due to oxidation and/or fuel related impurities.

Correction

Utilize linear reed style fuel level senders on SmartCraft applications.

The following suggestions are provided for fuel level sender selection:

- Select a sender with few or no moving parts - this allows the same sender to be used in all tanks: fuel, clean water, waste water, live wells, etc.
- SmartCraft compatible fuel level senders have a nominal operating range of 33 - 240 ohms, where 33 ohms is full and 240 ohms is empty.

Re-calibrate the SmartCraft fuel levels.

Often, the fuel level sender is calibrated for the fuel tank capacity rather than the volume of fuel covered within the fuel level sender's range of motion.

Proper calibration can be achieved by:

- Measure or calculate the volume of fuel monitored by the fuel level sender. This amount will be less than the fuel tank capacity.
- Utilize the measured or calculated volume during the SmartCraft calibration process.

The float style fuel level sender has "dead" areas caused by oxidation and/or fuel related impurities.

- Should this problem occur, the fuel level sender must be replaced and subsequently, re-calibrated.

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