

Procedure: System 2000PLUS™ Calibration Procedure



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The Tramont TRS series day tank is controlled by the System 2000PLUS™ ECM (Electronic Control Module). The ECM detects the tank level by an electronic float gauge. This float is simply a 0 to 90 ohm potentiometer. The resulting 0 to 100 milliamp signal (5 volts maximum) is used by the ECM for monitoring the fuel level of the day tank.

The ECM is calibrated at the factory. The calibration potentiometer is sealed to prevent accidental damage. However, if this unit requires calibration, the following procedure should be followed:

- 1) **CAUTION:** The ECM needs to be powered by 120 VAC during calibration. Hazardous voltage can cause severe injury or death. Care must be taken while performing this procedure.
- 2) Disconnect power to the unit. Verify that power is off.
- 3) Remove ECM and gauge from tank. (Note position/direction of gauge)
- 4) Once gauge is removed from tank, reconnect gauge leads to ECM. (RED-center post; BLACK-mounting screw hole).
- 5) Position gauge against FRONT of tank.
- 6) Locate adjusting pot inside ECM and record its position. The pot is on the back of the front panel in the upper right hand corner.
- 7) Restore power to the unit.

CAUTION: Pump will activate during adjustments.

- 8a) Slowly move the float arm up until the "Pump Running" light deactivates. Measure from top of tank to the center of the float and record the position in inches. (Important Note: There is a two second delay for lights to activate and deactivate)
- 8b) Slowly move the float arm up until the "High Level" light activates. Measure from top of tank to the center of the float and record the position in inches.
- 8c) Slowly move the float arm down until the "Pump Running" light activates. Measure from top of tank to the center of the float and record the position in inches.

- 8d) slowly move the float arm down until the "Low Level" light activates. Measure from top of tank to the center of the float and record the position in inches.
- 9) Adjust potentiometer inside the ECM for High Level to activate at 3.50" (TRS-10 activates at 3.00") Use 9a for Tramont standard levels. **All dimensions are from Center of Float.**
- 9a) Holding the float arm at 3.50", turn the potentiometer clockwise as far as possible. Maintaining that level, turn the potentiometer back until the High Level light is activated. (Repeat steps 8a through 8d to verify levels)
- 9b) Holding the float arm at the uppermost level, turn the potentiometer clockwise as far as possible. Maintaining that level, turn the potentiometer back until the High Level light is activated. This will give you the greatest distance between the "Pump Off" and the "High Level". (Repeat steps 8a through 8d to verify levels)
- 9c) Holding the float arm at the uppermost level, turn the potentiometer counter clockwise as far as possible. Maintaining that level, turn the potentiometer back until the High Level light is activated. This will give you the least distance between the "Pump Off" and the "High Level". (Repeat steps 8a through 8d to verify levels)

CAUTION: 9b and 9c levels may result in dangerous low or high conditions. Calibration procedure 9a is used for the recommended levels.

- 10) Disconnect power.
- 11) Remount gauge in tank and ECM to tank.
 - A. Position gauge in tank as originally mounted.
 - B. Connect red gauge lead to the center post.
- 12) Apply power to unit.