

Larson Electronic Mfg.
ECP
Technical Help Manual & Troubleshooting Guide

Introduction

The ECP tank level monitoring system is a conductive probe type level detector used to measure the contents of the fresh water and 2 or 3 holding tanks. It uses standard metallic probes inserted into the tank. Each set of tank probes are attached to the panel through a resistor network (one network per tank) which have color coded wires for easy and accurate hookup.

Tank Measurement

To measure the level of a tank, simply push the button on the display panel corresponding to the tank you wish to measure. The lights on the panel will turn on in sequence, indicating the level of the tank. The indicator lights are shared by all test functions. The battery readout is indicated by **1/3**, **2/3**, and **F**. The battery indications are **GOOD**, **FAIR** and **POOR**.

Troubleshooting a Malfunctioning System

If after installation the system is found to be malfunctioning, the following list of common symptoms and causes can be helpful in identifying the problem. They are listed so that the most probable cause is listed first:

Panel won't power up when any test button is pressed.

Possible causes:

1. Open red power or white ground wire (check splices).
2. Battery dead.
3. Power and ground wires to panel reversed.
4. Panel wired wrong.
5. Bad panel.

Panel won't power up on water tank tests but battery reads ok.

Possible causes:

1. Panel wired wrong.
2. Common probe wire open or probe is insulated.
3. Poor splice connection at panel.
4. Bad resistor network.
5. Bad panel

Troubleshooting-(cont'd)

Battery test reads low.

Possible causes:

1. Low coach battery.
2. Bad panel.

Wrong tank registers when testing a tank.

Possible causes:

1. Tank wires swapped with another tank.

Water tank reads non linear.

Possible causes:

1. The tank probes are installed with irregular vertical spacing.

Water tank reads but one probe level is skipped.

Possible causes:

1. Red, Blue, and Black probe wires swapped.
2. Defective resistor network probe terminal crimp.
3. Probe in tank is insulated.

Water tank reading is intermittent.

Possible causes:

1. Poor wire splice came loose inside of wire nut.
2. Bad panel.

The causes listed above constitute the vast majority of problems occurring with our system. However, should any problems occur that cannot be solved using this manual, you may call our service department for additional help. Our toll free number is **1-800-456-4498**.