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REPLACEMENT PARTS LISTING for LIQUID LEVEL CONTROLS

Low Level Controls

E-150, E-152, E-155, E-158, and E-165

High/Low Level Controls

E-170, E-172, E-175, E-178, & E-185

INSTALLATION, OPERATION and TROUBLESHOOTING



INSTALLATION INSTRUCTIONS

Level Controls

E-150, E-152, E-155, E-158, E-165

A. Installing the Level Control on a Reservoir.

These Level Controls are sized to fit LSP Reservoirs but can be installed in other Reservoirs as long as the Float is long enough to reach to the bottom of the Reservoir. LSP can make special length Floats for special applications.

1. The Level Control Box and the Float are shipped unassembled.
2. Remove the two nuts and metal washer from the Float.
3. Remove cover from the Level Control Box.
4. Take the Float and from the inside of the Reservoir push the threaded shank with the 2 wires showing through the hole in the reservoir.
5. Place the open Level Control Box over the threaded shank so that it can enter the Level Control box through the open hole.
6. Place the metal washer over the threaded shank.
7. Hand tighten a 5/8" nut on the threaded shank
8. Place a 7/8" wrench on the nut on the Float on the underside of the Reservoir while tightening the nut in the box to a torque of ## inch pounds.
9. Place the second nut on the threaded shank and while holding the first nut, inside the Level Control Box, with a wrench tighten the second nut to act as a jam nut.
10. Connect the two wires from the Level control Box to the two wires from the Float.
11. Plug into 110 V and the unit is operational.

High/Low Level Controls

E-170, E-172, E-175, E-178, & E-185

The High/Low Level Control has 2 floats, one for low level and one for high level. It is used when ever the user wants to automatically fill the reservoir. When the fluid is low the low level float opens a valve and allows fluid to fill the reservoir. When the fluid hits the high level float the valve is closed..

The High/Low Level Control comes pre-installed on the lid of the Reservoir. To become operational it must be wired to a solenoid valve.

Operating the Level Control and the High/Low Level Control.

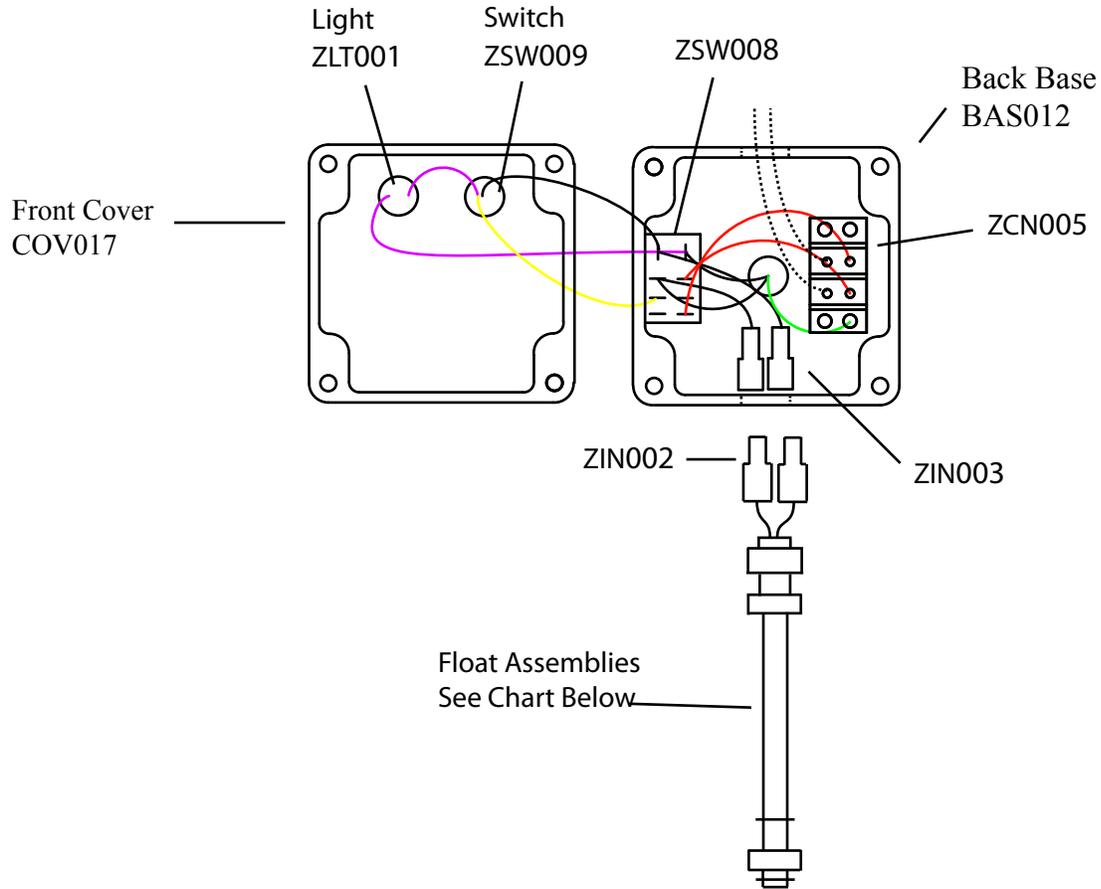
The Low Level Control is installed on a reservoir and is fully operational. Fill the Reservoir with Fluid and and insert the plug into 110 V outlet. When the fluid drops below the float the float drops and lights the LED on the Float Control Box. This tells the operator that he has run out of fluid and must replenish it.

This is the most basic installation of the Low Level Control. On page 2 of this sheet there are electrical schematics showing how to wire the Low Level Control and the High/Low Level Control to control remote objects to greater gain the attention of the operator or to automatically keep the reservoir full

TROUBLESHOOTING INSTRUCTIONS

PROBLEMS	SOLUTIONS
I. Level Control does not give a signal when fluid level is low.	A. Float may be stuck because of debris, Clean tank and Float. B. Float may be broken and have to be replaced. C. No Power.
II. Level Control gives signal on LED on Box but remote indicators or machinery shut-down does not respond.	A. Relay may be defective and have to be replaced.

PARTS LIST



LEVEL CONTROL	RESERVOIR	FLOAT ASSEMBLY
E-150	1-1/2 Gal. Reservoir	290ZSW11
E-152	5 Gal. Reservoir	290ZSW12
E-155	4 Gal. Reservoir	290ZSW14
E-158	8 Gal. Reservoir	290ZSW15
E-165	15 Gal. Reservoir	290ZSW13