#PIT4749A: Fuel Gauge Inaccurate DTC P2066 And/Or P2636 - keywords dual empty full gauge inoperative IPC level out P1682 pump relay stall SES tanks transfer - (Mar 10, 2009)

Subject: Fuel Gauge Inaccurate DTC P2066 and/or P2636

Models: 2007-2009 Chevrolet Silverado 3500 Chassis Cab
2007-2009 GMC Sierra 3500 Chassis Cab
With 6.0L Engine RPO LY6

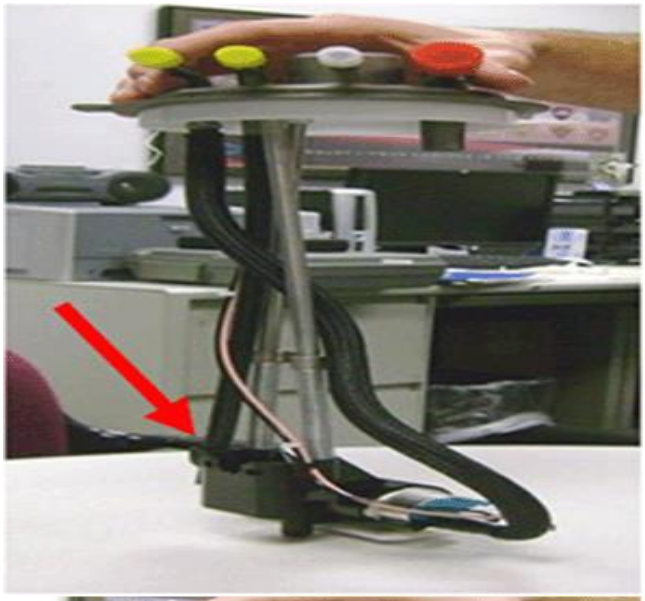
This PI was superseded to add additional recommendation information. Please discard PIT4749.

The following diagnosis might be helpful if the vehicle exhibits the symptom(s) described in this PI.

Condition/Concern:

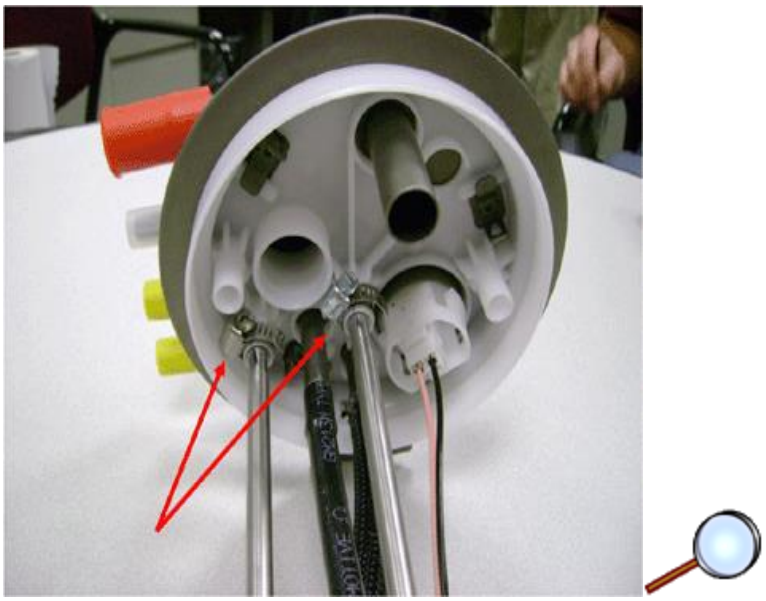
Some owners may comment of the fuel gauge being inaccurate and/or the SES MIL illuminated. When checking for DTC's there may be a P2066 and/or P2636 stored in the ECM. This concern could be caused by the rear tank sender float arm contacting the side of the fuel tank or fuel filler spud inside the tank. This prevents the float arm from moving when fuel is transferred out of the rear tank. Because the float arm does not move, the ECM does not sense the fuel level decreasing. This can lead to an inaccurate fuel gauge reading on the IPC as well as DTCs to set in the ECM.

The float arm may be in contact with the side of the tank or fuel filler spud due to the lower portion of the fuel sender assembly that contains the fuel pump and sender float arm rotating on the two metal spring rods. Shown below are pictures of the lower part of the sender twisted to the left and right



Recommendation/Instructions:

Engineering is aware of this concern. Currently, the only repair is to position the lower part of the sender so the float arm will not contact the side of the fuel tank or fuel filler spud and clamp it into position to prevent from twisting. Using two small hose clamps, open the clamps up all the way to install one over each spring rod. Slide the hose clamp to the top of the sender assembly and install around the plastic boss that retains the spring rod. With the lower part of the sender in a position to prevent the float arm from any contact, tighten the hose clamps. See picture below for detail.



Note: For the above repair to be effective, the sender assembly must have the metal strap connecting the two spring rods, shown below. If the sender assembly does not have the metal strap then it must be replaced. Verify the new part has the strap and then complete the above repair.