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Major System: FUEL SYSTEMS **Created:** 7/25/2016
Current Language: English **Last Modified:** 7/26/2016
Other Languages: NONE **Author:** Aaron Mimbs
Viewed: 117

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Coding Information

| | | | | | | | | |
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Title: PSI 8.8L LPG Fuel Level Reading Comparisons

Applies To: PSI 8.8L LPG

CHANGE LOG

Please refer to the change log text box below for recent changes to this article:

07/26/2016 - Updated Fuel level gauge table to include 1/8th tank increments. Added additional note to Repair Steps.
 07/25/2016 - Initial Article Release

DESCRIPTION

This document will guide the user through determining if the fuel level reading on the dashboard and LPG tank are reading as designed.

SYMPTOMS

Diagnostic Trouble Codes & Dashboard Indicator Lights:

| DTC/Light | Description |
|-----------|-------------|
| None | |

Customer Observations or Concerns:

Fuel level gauges do not match
 Fuel tank accepts different quantity of fuel than expected

SPECIAL TOOLS / SOFTWARE

| Tool Description | Tool Number | Comments | Instructions |
|------------------|-------------|----------|--------------|
| PowerLink | | | |

[Tools Resource Center](#)

SERVICE PARTS INFORMATION

| Kit Description | Part Number | Notes |
|-----------------|-------------|-------|
| | | |

| | | | |
|------|--|----------------------|--|
| | | Quantity Required | |
| None | | | |

DIAGNOSTIC STEPS

WARNING:

To prevent property damage, personal injury, and / or death, read all safety instructions in the "Safety Information" section of the *Engine / Vehicle Service Manual* or *Engine Diagnostic Manual*.

| Step | Action | Decision |
|------|---|---|
| 1 | <p>DIAGNOSTIC:</p> <p>Compare fuel level reading on fuel tank Sending Unit Assembly and Dashboard Fuel Level Gauge or PowerLink.</p> <p>Note: Fuel readings will not match at different fluid levels. Below 3/8 of a tank the fuel level is biased LOW. Above 3/8 of a tank the fuel level is biased HIGH. See Figure 1 below for an example of the fuel level sensor relationship.</p> <p>Does the fuel level comparison match Table 1 as outlined below?</p> | Yes. End Diagnostics |
| | | <p>No. See section 2.7.3 for Inaccurate Fuel Level Readings in the Symptom Based Diagnostic section of the PSI 8.8L LPG Diagnostic Manual.</p> |

Table 1: Fuel Level Comparison

| Tank Fuel Level Gauge (Sending Unit Assembly) | Dashboard Reading | PowerLink Reading | Sensor Resistance Reading (Ohms) |
|---|-------------------|--------------------|----------------------------------|
| F | F | 100% | 43 |
| 3/4 | F | 100% | 60 |
| 5/8 | F | 100% | 89 |
| 1/2 | Just Over 5/8 | 63% | 115 |
| 3/8 | About 3/8 | 39% | 145 |
| 1/4 | Between 1/8 - 1/4 | 20% | 177 |
| 1/8 | Just Under 1/8 | 8% | 203 |
| E | E | 2% | 233 |
| E- | E | 0% or Flashing LOW | 254 |

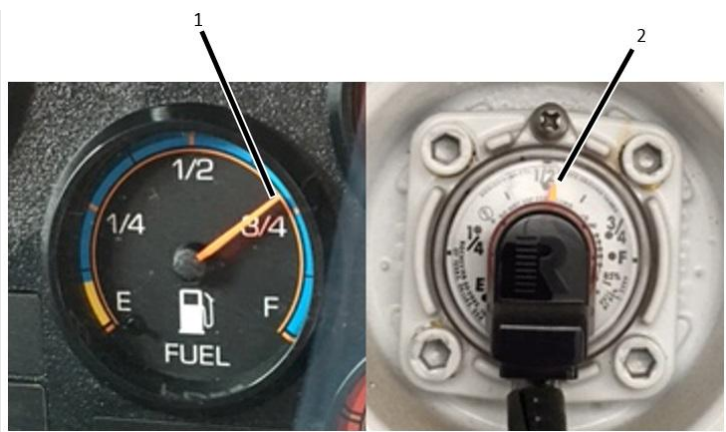


Figure 1: Normal Fuel Level Gauge Comparison

Item 1: Dashboard Fuel Level Gauge reading just under 3/4 of a tank

Item 2: Fuel Tank Sending Unit Assembly reading just over 1/2 of a tank

REPAIR STEPS

If necessary see PSI 8.8L Engine Service Manual for repair procedures. Please note that the Sending Unit Assembly magnetic pickup can be oriented 180 degrees away from the Float Assembly magnets. This will cause the fuel level to differ dramatically. Removing the Sending Unit Assembly and flipping the magnetic pickup may be required to correct this condition.

WARRANTY INFORMATION

Warranty Claim Coding:

| | |
|---------------|------------------------------|
| Group: | 15100 - Propane Fuel System |
| Noun: | 124 - Assembly, Sending Unit |
| Noun: | 125 - Gauge, Float |

- Link to the Coding Manual: [Click Here](#)

Standard Repair Time(s):

SRT Table:

| Step | Repair | Model | Engine | SRT |
|------|--------|-------|--------|-----|
| None | | | | |

- Link to the Standard Repair Time Manual: [Click Here](#)

Claim SRT Example:

Claim Comment Suggestion:

Special Requirement(s):

OTHER RESOURCES

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