



# Service Bulletin

File in Section: -

Bulletin No.: PIT3046G

Date: March, 2015

## PRELIMINARY INFORMATION

**Subject:** Fuel Gauge Fluctuation In Park Or Neutral

**Models:** 2008-2015 Buick Enclave  
 2004-2007 Buick Rainier  
 2005-2007 Buick Terraza  
 2002-2009 Cadillac Escalade models  
 1999-2005 Chevrolet Astro  
 1998-2009 Chevrolet Blazer Classic and Trailblazer models  
 2004-2012 Chevrolet Colorado  
 2015 Chevrolet Colorado  
 2005-2015 Chevrolet Equinox  
 2001-2005 Chevrolet S10 Crew-Cab and S-10 Pick-Up models  
 1999-2015 Chevrolet Silverado, Silverado Classic  
 2000-2015 Chevrolet Tahoe, Suburban  
 2009-2015 Chevrolet Traverse  
 2005-2009 Chevrolet Uplander  
 2007-2015 GMC Acadia  
 1998-2009 GMC Envoy and Envoy Classic models  
 2004-2012 GMC Canyon  
 2015 GMC Canyon  
 1998-2005 GMC Jimmy Classic  
 1999-2005 GMC Safari  
 1999-2015 GMC Sierra and Sierra Classic models  
 2001-2005 GMC Sonoma and Sonoma Crew-Cab models  
 2010-2015 GMC Terrain  
 2000-2015 GMC Yukon models  
 2002-2004 Oldsmobile Bravada  
 1998-2001 Oldsmobile Bravada Classic  
 2005-2009 Pontiac Montana SV6  
 2006-2009 Pontiac Torrent  
 2007-2010 Saturn Outlook  
 2005-2008 Saturn Relay  
 2003-2009 Hummer H2 and H2 SUT models  
 2006-2010 Hummer H3 models

**This PI was superseded to update Models. Please discard PIT3046F**

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

### Condition/Concern

Fuel gauge may be inaccurate or drops to empty (E) and the low fuel light comes on.

Further analysis may reveal that this condition is most apparent when the gauge is at or below the quarter (1/4) tank mark.

## **Recommendation/Instructions**

Try to duplicate the concern by driving the vehicle a short distance in reverse and then stopping (to make fuel slosh), shifting transmission to park or neutral and then shifting to drive.

The fuel gauge will have a tendency to falsely indicate a lower fuel level than what is actually present

The gauge will take a few minutes to show the actual fuel level. The VCM/PCM is the buffer for the fuel gauge.

It should also be noted how the vehicle is being parked (i.e. on an incline, front of veh up hill or down hill, etc..) Also note if the gauge works properly after cycling the key on level ground.

1. On an Automatic Transmission no buffering takes place when the transmission is in park or neutral. This is a NORMAL characteristic & NO repairs are necessary.
2. On a Manual Transmissions, the fuel gauge is buffered in all gears and neutral. Since the VCM/PCM has no way to know what gear it is in, there is a timer which starts to count up when the clutch is depressed. When this timer reaches its calibrated value (this value will vary), the filtering switches to the "fast" filter (no buffering). When the clutch is released the filter then switches to the slow filter (system is buffered). This is a NORMAL characteristic & NO repairs are necessary.

Please follow this diagnostic or repair process thoroughly and complete each step. If the condition exhibited is resolved without completing every step, the remaining steps do not need to be performed.