



Preliminary Information

PIP5385D Repeat P228C Setting On High Feature V6 Engines While Using E85 Fuel

Product Investigation Review Required

Models

Brand:	Model:	Model Years:	VIN:		Engine:	Transmissions:
			from	to		
Buick	LaCrosse	2011 - 2016	ALL	ALL	3.0 LFW, 3.6 LFX	ALL
Cadillac	ATS Sedan	2013	ALL	ALL	3.6 LFX	ALL
Cadillac	SRX	2011 - 2016	ALL	ALL	3.0 LFW, 3.6 LFX	ALL
Chevrolet	Caprice PPV	2012 - 2015	ALL	ALL	3.6 LFX	ALL
Chevrolet	Captiva Sport (Fleet Only)	2013 - 2015	ALL	ALL	3.0 LFW	ALL
Chevrolet	Equinox	2011 - 2017	ALL	ALL	3.0 LFW, 3.6 LFX	ALL
Chevrolet	Impala Limited (Including Fleet and PPV)	2012 - 2017	ALL	ALL	3.6 LFX	ALL
Chevrolet	Impala	2014 - 2018	ALL	ALL	3.6 LFX	ALL
GMC	Terrain	2011 - 2017	ALL	ALL	3.0 LFW, 3.6 LFX	ALL

Equipped with HFV6 engine RPO, LF1, LFW, or LFX And RPO FHS: Vehicle Fuel — E85 (85% ethanol max.)

Supersession Statement

This PI was superseded to add model years, and remove surveys. Please discard PIP5385C.

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

Condition / Concern

You may have a customer come in with an SES light on or reduced engine power message came on and was cleared after cycling the key.

If you find a P228C set as current or history, and a prior history of High Pressure Fuel Pump replacement, and the customer has been using E85 fuel,

This PI would apply.

NOTE: Starting with Model Year 2012 vehicles, FlexFuel vehicles may also be identified by the following Vehicle Fuel RPO Codes:

- o **FHO:** Vehicle Fuel — E10 (10% ethanol or less)
- o **FHS:** Vehicle Fuel — E85 (85% ethanol max.)

Recommendations / Instructions

At this time there is "No Verified Repair" for this concern.

If the code is current then follow SI direction for repairing the concern.

If the code is set in history and there are no current drivability concerns, proceed with the following.

- 1) Take a large fuel sample and let it sit for a couple of hours looking for contamination.
- 2) Ensure actual and desired fuel pressures in the scan tool are very close to the same.
- 3) If contamination is found in the tank then completely flush the fuel system and add e-10 fuel.

Also you may need to check the strainer in the fuel tank for concerns of build up or blockage

NOTE: Contamination in the fuel is not warrantable.

- 4) Remove the high pressure fuel pump inlet line from both ends.
 - a) Using regulated air down to about 60 psi or lower, blow through the inlet(vehicle) side of this pipe / hose.
 - b) Check for restriction in the check valve built into this hose.
 - c) If restricted then replace the pipe / hose assembly, run a tank of premium or top tier E10 fuel through the vehicle and reevaluate the concern.
 - d) If no restriction present continue with PI.

NOTE: Please box the inlet line with the HPFP when sending pump back or retain line so it can be requested back if replaced without pump.

- 5) Replace the high pressure fuel pump and all related lines per SI instructions.
- 6) Run a tank of premium or top tier E10 fuel through the system to clean all components.
- 7) Reevaluate the vehicle

NOTE: This PI will be updated to a bulletin as soon as parts become available specifically for this concern.

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.



