



Service Bulletin

PRELIMINARY INFORMATION

Subject: Extended Crank Cold With DI (Direct Injected) Engines

Models: 2016 Chevrolet Camaro
2016 Cadillac CTS-V
2015-2016 Cadillac Escalade
2014-2016 Chevrolet Corvette
2014-2016 Chevrolet Silverado 1500 Suburban, Tahoe
2014-2016 GMC Sierra 1500 Yukon
with engines 4.3L, 5.3L, 6.2L RPO's LV3, L83, L86, LT1, LT4

This PI was superseded to update Model Years. Please discard PIP5179A.

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

Condition/Concern

DI (Direct Injected) Engines with concerns of extended or long crank time during cold ambient airtemps

Recommendation/Instructions

Direct Injection engines may have slightly longer cold crank times than that of port fuel engines.

Direct Injection systems run at higher pressures, and the mechanical pump on the engine must buildup the required pressure before the first injection event occurs.

The below are typical Direct Injection engine crank times on GASOLINE

Start up Coolant Temperature Crank Time

Above 10° C up to 1.5 sec

Between 10°c (50F) and (- 10°c 14F) up to 2.5 sec

Between (-10°c 14F) and (-20°c -4F) up to 3.5 sec

Between (-20°c -4F) and (-25°c -13F) up to 5 sec

Between (-25°c -13F) and (-30°c -22F) up to 7 sec

Below -30 deg. C -22F, the recommendation is to perform an assisted start (such as use of a blockheater).

Note: For ETHANOL fuel see #PIP5174: Extended Engine Crank Times When Using E85

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.

GM bulletins are intended for use by professional technicians, NOT a "do-it-yourselfer". They are written to inform these technicians of conditions that may occur on some vehicles, or to provide information that could assist in the proper service of a vehicle. Properly trained technicians have the equipment, tools, safety instructions, and know-how to do a job properly and safely. If a condition is described, DO NOT assume that the bulletin applies to your vehicle, or that your vehicle will have that condition. See your GM dealer for information on whether your vehicle may benefit from the information.



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