



# Preliminary Information

## PIP5179C Extended Crank Cold With DI (Direct Injected) Engines

### Models

Brand:	Model:	Model Years:	VIN:		Engine:	Transmissions:
			from	to		
Cadillac	CTS-V	2016 - 2017	All	All	6.2L LT4	All
Cadillac	Escalade	2016 - 2017	All	All	6.2L L86	All
Chevrolet	Camaro	2016 - 2017	All	All	6.2L LT4, LT1	All
Chevrolet	Corvette	2014 - 2017	All	All	6.2L LT1 LT4	All
Chevrolet	Silverado	2014 - 2017	All	All	4.3L 5.3L 6.2L L83 L86 LV3	All
Chevrolet	Suburban	2015 - 2017	All	All	5.3L L83	All
Chevrolet	Tahoe	2015 - 2017	All	All	5.3L L83	All
GMC	Sierra	2014 - 2017	All	All	4.3L 5.3L 6.2L L83 L86 LV3	All
GMC	Yukon Models	2014 - 2017	All	All	5.3L 6.2L L83 L86	All

### Supersession Statement

This PI was superseded to update Model Years.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 air temps

### Recommendations / 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 build up 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 block heater).

**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.

