



## Preliminary Information

### PIP5639 Diagnostic Tips For Ignition System Concerns Caused By Non OEM Parts

#### Models

Brand:	Model:	Model Years:	VIN:		Engine:	Transmissions:
			from	to		
Buick	Allure (Canada Only)	2005 - 2009	All	All	3.8L L26	All
Buick	LaCrosse	2005 - 2009	All	All	3.8L L26	All
Buick	Lucerne	2006 - 2008	All	All	3.8L L26	All
Pontiac	Grand Prix	2005 - 2008	All	All	3.8L L26	All

Involved Region or Country	North America
Condition	Vehicle may exhibit a crank no start, a no crank no start, misfire and/or difficulties performing a ckp relearn.
Cause	Non-OEM parts

#### Correction:

It may be found that there is weak/no spark on any or all cylinders.

An erratic or non existent crankshaft position signal may also be observed.

In some instances non-OEM/aftermarket parts may cause any of the previously mentioned concerns.

Components typically involved with this concern are, but not limited to the following:

CKP sensor (crankshaft position sensor)

Harmonic balancer

ICM (Ignition control module)

Ignition coils

Verifying proper operation of any non-OEM ignition parts is a good strategy when addressing these concerns, even if the component was recently replaced.

It may also be found that a component was replaced for one particular symptom (i.e. misfire) and now is exhibiting another (i.e. crank no start).

Instances of non-OEM ignition coils causing a crank no start condition in addition to misfires have been observed.

Some aftermarket harmonic balancers can be identified by inspecting the CKP reluctors.

An OEM harmonic balancer will have the reluctor windows cut down to the base, whereas some aftermarket harmonic balancers may not (see below).

An example of an OEM Harmonic Balancer (note the reluctor windows cut to the base):



This condition is under review. This PI will be updated to a Technical Service Bulletin once a permanent repair has been established.

#### Version History

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Version	1
Modified	04/17/2019 - Created on.



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