



Service Bulletin

File in Section: -

Bulletin No.: 17-NA-307

Date: October, 2017

INFORMATION

Subject: Information On Remanufactured Engine Misfire Diagnosis After Installation

Brand:	Model:	Model Year:		VIN:		Engine:	Transmission:
		from	to	from	to		
Buick	Allure	2007	2011			LF1, LLT, LY7	
	Enclave	2008	2018			LLT, LFY, LY7	
	LaCrosse	2007	2016			LF1, LLT, LY7	
Cadillac	ATS	2013	2015			LFX	
	CTS	2007	2016			LP1, LF1, LFW, LY7, LLT, LFX	
	SRX	2007	2016			LAU, LF1, LFW, LFX, LP1, LY7	
	STS	2007	2011			LLT, LY7	
Chevrolet	Camaro	2010	2015			LFX, LLT	
	Colorado (VIN 4)	2015	2018			LFX	
	Equinox	2010	2017			LF1, LFW, LFX	
	Impala	2012	2018			LFX	
	Malibu	2007	2018			LY7	
	Traverse	2009	2018			LFY, LLT	
GMC	Acadia	2009	2016			LLT	
	Acadia (VIN R, V)	2017	2017			LLT	
	Canyon	2015	2016			LFX	
	Terrain	2012	2017			LF1, LFW, LFX	
Pontiac	G6	2007	2009			LY7	
	G8	2008	2009			LY7	
	Torrent	2008	2009			LY7	
Saturn	Aura	2007	2010			LY7	
	Outlook	2007	2010			LLT, LY7	
	Vue	2008	2010			LY7	

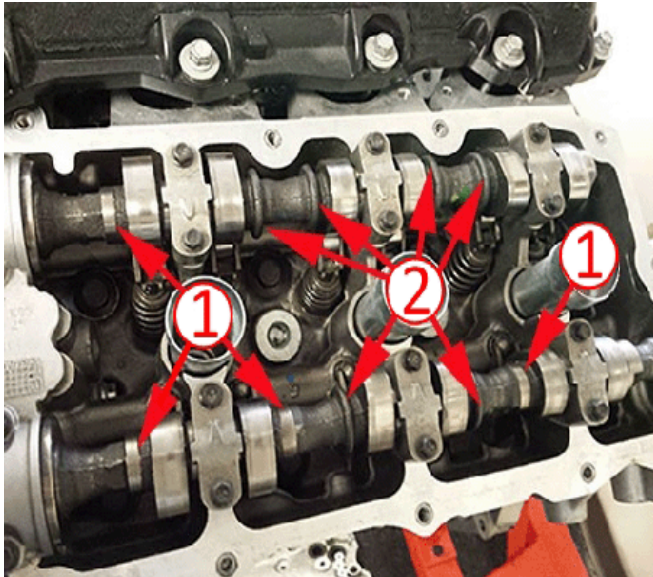
Involved Region or Country	North America and N.A.Exports
Condition	The technician may experience a misfire immediately after installing a GM re-manufactured HFV6 engine, usually limited to 1 bank or 1 cylinder.
Cause	This condition may be caused by the wrong camshaft being installed in the engine at the reman facility.
Correction	If you experience this concern, inspect the camshafts to ensure the correct camshaft is installed in each intake and exhaust position by comparing the ring strategy to either the engine that was removed (best way) or the charts below for the engine you are working on.

Information

Note: Ring strategy camshaft identification is a series of rings along the camshaft that are either simply cast on the camshaft or machined down.

There are 5 rings on each camshaft.

Identification occurs by the order in which the machined or cast rings are placed on the camshaft.



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Top of Table is Rear of Camshaft	M = Machined Ring (1)			
HFV6 Cam Ring strategy	Cast = Cast Ring (2)			
2007–2011 (N.A., Holden, Suzuki) (IT Drive)	RH EXH	RH INT	LH INT	LH EXH
Rear of Camshaft	C	M	C	M
	C	C	M	C
	C	C	M	C
	M	M	C	C
Front of Camshaft	C	C	C	C
2007 LP1, LY7 HO (IT Drive)	RH EXH	RH INT	LH INT	LH EXH
Rear of Camshaft	M	M	C	M
	M	C	M	C
	C	C	M	M
	C	M	C	M
Front of Camshaft	M	C	C	M
2008-11 LLT (IT drive, Hollow), 2010-11 LF1/LFW	RH EXH	RH INT	LH INT	LH EXH
Rear of Camshaft	M	M	C	M
	C	M	C	C
	M	M	C	C
	C	M	C	M

Front of Camshaft	M	C	M	M
2012 LF1/LFW (new thrust ring diameter)	RH EXH	RH INT	LH INT	LH EXH
Rear of Camshaft	M	M	C	C
	C	M	C	M
	M	M	C	C
	C	M	C	M
Front of Camshaft	M	C	M	M
2012-2017 LFX (new thrust ring diameter)	RH EXH	RH INT	LH INT	LH EXH
Rear of Camshaft	M	M	C	C
	C	M	M	M
	M	M	M	C
	C	C	M	M
Front of Camshaft	M	C	C	M
2012 LY7 (new thrust ring diameter)	RH EXH	RH INT	LH INT	LH EXH
Rear of Camshaft	C	M	C	M
	C	M	C	C
	C	M	C	C
	M	M	C	C
Front of Camshaft	C	C	M	C
2012 and newer LLT (new thrust ring diameter)	RH EXH	RH INT	LH INT	LH EXH
Rear of Camshaft	M	M	C	M
	C	M	C	C
	M	M	C	C
	C	M	C	M
Front of Camshaft	M	C	M	M
2014 and newer LF3 (vac. Pump slot, SADI lobe)	RH EXH	RH INT	LH INT	LH EXH
Rear of Camshaft	M	M	C	M
	M	M	C	C
	C	M	C	M
	M	M	C	M
Front of Camshaft	C	C	M	C
2018 and newer LFY and LFX	RH EXH	RH INT	LH INT	LH EXH
Rear of Camshaft	M	M	M	C
	M	M	C	M
	M	C	M	M
	C	M	M	M
Front of Camshaft	M	M	M	M

Version	1
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