



Reluctor Wheel Caution on GM LS and LT Family Engines

The AERA Technical Committee offers the following information regarding reluctor wheel tooth count for various GM 4.8L & 5.3L applications. GM offers two options for the reluctor wheel depending on tooth count and if the wrong one is installed, customers will experience a no start condition and the check engine light will illuminate.

Originally, the LS & LT family of engines came with a 24 tooth reluctor wheel and after 2006 all applications went to a 58 tooth reluctor wheel. Often the engine details are not known or not provided by the customer. Referencing the chart below will help in determining which reluctor wheel, 24 or 58 tooth (See Figure 1), is required for the correct application.

4.8L ENGINES				
Years	Models	Engine Code	VIN	Reluctor Wheel
2007-09	Silverado, Sierra, Tahoe, Yukon, Express, Savana	LR4	V	24X
2010-14	Silverado, Sierra, Express, Savana	L20		58X
2007-09	Silverado, Sierra, Tahoe, Yukon, Express, Savana	LY2	C	58X
5.3L ENGINES				
Years	Models	Engine Code	VIN	Reluctor Wheel
2005-07	Silverado, Sierra	L33	B	24X
2002-07	Silverado, Sierra, Express, Savana, Tahoe, Yukon, Avalanche	L59	Z	24X
2003-05	Trailblazer, SSR, Envoy, Rainer, Ascender	LM4	P	24X
1999-07	Silverado, Sierra, Express, Savana, Tahoe, Yukon, Avalanche, Escalade, Suburban	LM7	T	24X
2007-11	Silverado, Sierra, Express, Savana, Tahoe, Yukon, Avalanche	LC9	3	58X
2005-06	Trailblazer, Silverado, Sierra, Envoy, Rainer, Ascender	LH6	M	24X
2007-09	Trailblazer, Silverado, Sierra, Envoy, Rainer, Ascender	LH6	M	58X
2008-09	Hummer, Colorado, Canyon	LH8	L	58X
2010-12	Hummer, Colorado, Canyon	LH9	P	58X
2010-14	Express, Savana	LMF	4	58X
2007-14	Silverado, Sierra, Express, Savana, Yukon, Avalanche, Suburban	LMG	0	58X
2005-06	Grand Prix, Monte Carlo, Impala, Lacrosse	LS4	C	24X
2007-09	Grand Prix, Monte Carlo, Impala, Lacrosse	LS4	C	58X
2007-09	Silverado, Sierra, Yukon, Tahoe, Suburban	LY5	J	58X

2014-19	Silverado, Sierra, Yukon, Tahoe, Suburban	L83	C	58X
2019-21	Silverado, Sierra	L84	D	58X
2019-21	Silverado, Sierra	L82	F	58X
6.0L ENGINES				
Years	Models	Engine Code	VIN	Reluctor Wheel
1999-07	Silverado, Sierra, Express, Savana, Yukon, Hummer, Express	LQ4	U	24X
2002-07	Silverado, Sierra, Escalade	LQ9	N	24X
2007-09	Silverado, Yukon, Sierra, Suburban, Avalanche	L76	Y	58X
2011-17	Caprice Police Pursuit, Commodore VE & VF	L77	2	58X
2010-17	Silverado, Sierra, Savana, Express, Yukon, Suburban	L96	G	58X
2008-09	Silverado, Sierra, Tahoe, Yukon, Escalade	LFA	5	58X
2005-06	Corvette, GTO, SSR, Trailblazer SS	LS2	U	24X
2006-09	Corvette, CTS-V, SSR, Trailblazer SS	LS2	U	58X
2007-10	Silverado, Sierra, Suburban, Yukon, Express, Savana	LY6	K	58X
2010-13	Silverado, Sierra, Escalade, Tahoe, Yukon	LZ1	J	58X
6.2L ENGINES				
Years	Models	Engine Code	VIN	Reluctor Wheel
2009-23	All 6.2L	All	All	58X
7.0L ENGINES				
Models	Engine Code	Engine Code	VIN	Reluctor Wheel
2006-13	Corvette Z06 & Z28	All	All	58X



Figure 1: Comparison of 24X vs 58X Tooth Reluctor Wheels