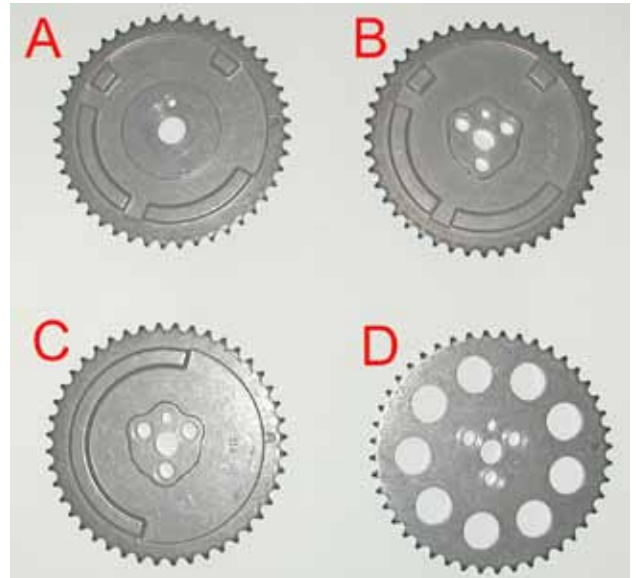


## GM Gen III And Gen IV V8 Crankshaft and Camshaft Reluctor Wheel Images

### Camshaft timing gears:

- A** - Single bolt 4X camshaft gear from a 2007-2009 LS2 or LS3 engine. GM part number 12591689.
- B** - Three bolt 4X camshaft gear from a 2006 LS2 Corvette or from a 2006-2009 LS7 Corvette engine. GM part number 12586481.
- C** - Three bolt 1X camshaft gear from a 2005 LS2 Corvette or a 2005-2006 LS2 GTO/SSR/Trailblazer engine. GM part number 12576407.
- D** - Three bolt camshaft gear from a 1997-2004 LS1, LS6 or other Gen III V8 engines. No reluctor teeth are on the timing chain gear since the camshaft position sensor is at the back of the block and senses the camshaft speed from the reluctor machined into the back of the camshaft itself. GM part number 12552953.

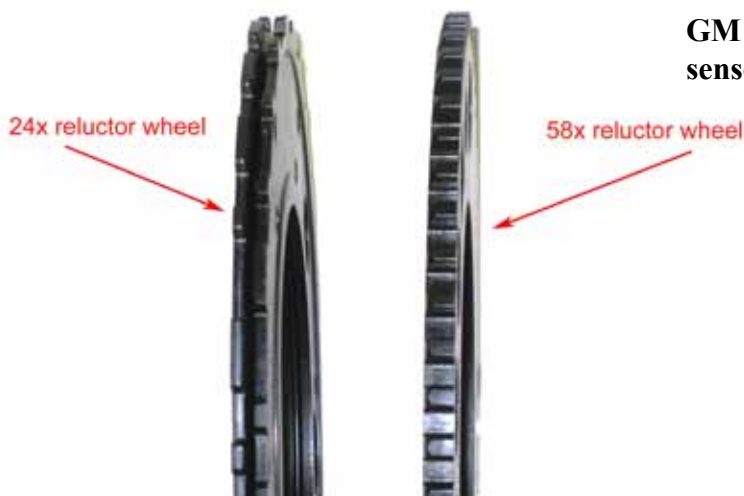
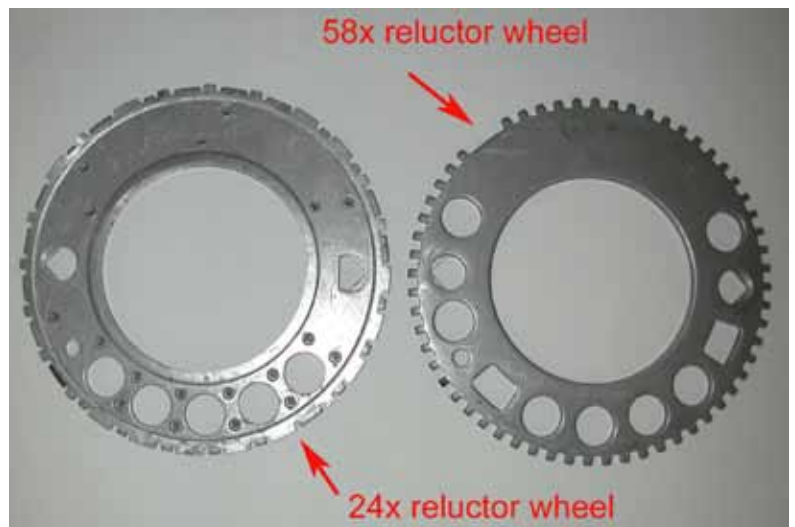


### Crankshaft reluctor wheel images:

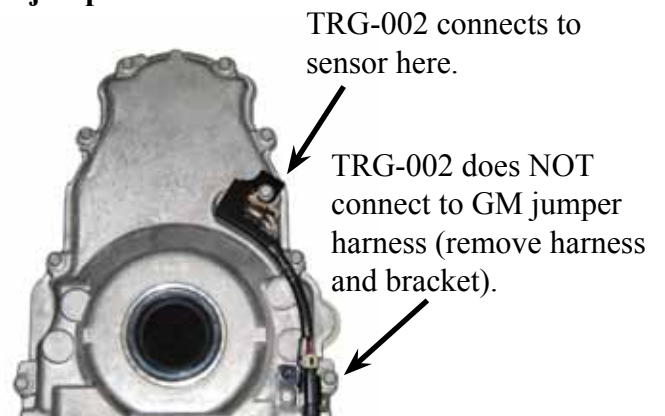
**Left image** - 24X crankshaft reluctor wheel found on all Gen III V8 engines (LS1, LS6, LQ4, LQ9) and early Gen IV V8 engines (2005 LS2 Corvette, 2005-2006 LS2 GTO, 2005-2006 LS2 SSR). GM part number 12551520 or 12559353.

**Right image** - 58X crankshaft reluctor wheel found on later Gen IV V8 engines (2006-2007 Corvette LS2, 2006-2009 Corvette LS7, 2008-2009 Corvette LS3 etc.). GM part number 12586768.

**Not shown** - LS9 58X crankshaft reluctor wheel. This reluctor wheel is smaller and diameter and requires a different sensor.



### GM Gen IV front timing cover with sensor and jumper harness:



# LINGENFELTER

## P E R F O R M A N C E   E N G I N E E R I N G

**Table 1 - Engine crankshaft reluctor wheel and camshaft gear tooth count information**

Year	Make	Model	Engine	Crankshaft reluctor tooth count	Camshaft gear count	Cam gear bolt pattern	PCM/ECM type
2004	Buick	Rainier	5.3L LM4	24x	1x (on camshaft)	3	Warren
2005-2006	Buick	Rainier	5.3L LH6	24x	1x	3	E40
2007	Buick	Rainier	5.3L LH6	58x	4x	1	E67
2004-2005	Cadillac	CTS-V	5.7L LS6	24x	1x (on camshaft)	3	Warren
2006	Cadillac	CTS-V	6.0L LS2	58x	4x	3	E67
2007	Cadillac	CTS-V	6.0L LS2	58x	4x	1	E67
2009-2015	Cadillac	CTS-V	6.2L LSA	58x	4x	1	E67
2001-2006	Cadillac	Escalade	5.3L & 6.0L	24x	1x (on camshaft)	3	Warren
2007-2013	Cadillac	Escalade	6.2L L92	58x	4x	1	E38
1998-2002	Chevrolet	Camaro	5.7L LS1	24x	1x (on camshaft)	3	Warren
2010-2015	Chevrolet	Camaro	6.2L LS3 & L99	58x	4x	1	E38
2012-2015	Chevrolet	ZL1 Camaro	6.2L LSA	58x	4x	1	E67
2015	Chevrolet	Z28 Camaro	7.0L LS7	58x	4x	1	E38
2011-2016	Chevrolet	Caprice PPV	6.0L L77	58x	4x	1	E38
1997-2004	Chevrolet	Corvette	5.7L LS1	24x	1x (on camshaft)	3	Warren
2001-2004	Chevrolet	Z06 Corvette	5.7L LS6	24x	1x (on camshaft)	3	Warren
2005	Chevrolet	Corvette	6.0L LS2	24x	1x	3	E40
2006	Chevrolet	Corvette	6.0L LS2	58x	4x	3	E38
2006-2013	Chevrolet	Z06 Corvette	7.0L LS7	58x	4x	3	E38
2007	Chevrolet	Corvette	6.0L LS2	58x	4x	1	E38
2008-2013	Chevrolet	Corvette	6.2L LS3	58x	4x	1	E38
2010-2013	Chevrolet	Corvette	6.2L LS3 Dry Sump	58x	4x	3	E38
2009-2013	Chevrolet	ZR1 Corvette	6.2L LS9	58x	4x	3	E67
2003-2007	Chevrolet	Express	4.8L, 5.3L, 6.0L, 8.1L	24x	1x (on camshaft)	3	Warren
2008-2009	Chevrolet	Express	4.8L, 5.3L, 6.0L	58x	4x	1	E38
1999-2007	Chevrolet	Silverado, Avalanche*	4.8L, 5.3L & 6.0L	24x	1x (on camshaft)	3	Warren
2007-2013	Chevrolet	Silverado, Avalanche**	4.8L, 5.3L & 6.0L	58x	4x	1	E38
2011-2014	Chevrolet	Silverado 2500HD	6.0L	58x	4x	1	E78
2003-2004	Chevrolet	SSR	5.3L	24x	1x (on camshaft)	3	Warren
2005-2006	Chevrolet	SSR	6.0L LS2	24x	1x	3	E40
2001-2006	Chevrolet	Suburban	4.8L, 5.3L, 6.0L, 8.1L	24x	1x (on camshaft)	3	Warren
2001-2006	Chevrolet	Tahoe	4.8L, 5.3L, 6.0L	24x	1x (on camshaft)	3	Warren
2007-2013	Chevrolet	Tahoe, Suburban	4.8, 5.3, 6.0 & 6.2L	58x	4x	1	E38
2003-2004	Chevrolet	Trailblazer	5.3L LM4	24x	1x (on camshaft)	3	Warren
2005-2006	Chevrolet	Trailblazer	5.3L LH6	24x	1x	3	E40
2007-2009	Chevrolet	Trailblazer	5.3L LH6	58x	4x	1	E67
2006	Chevrolet	Trailblazer SS	6.0L LS2	24x	1x	3	E40
2007-2009	Chevrolet	Trailblazer SS	6.0L LS2	58x	4x	1	E67
2003-2004	GMC	Envoy	5.3L LM4	24x	1x (on camshaft)	3	Warren
2005-2006	GMC	Envoy	5.3L LH6	24x	1x	3	E40
2007-2009	GMC	Envoy	5.3L LH6	58x	4x	1	E67
2003-2007	GMC	Savana	4.8L, 5.3L, 6.0L	24x	1x (on camshaft)	3	Warren

\*1999 was a transition year for the CK truck platform from the Gen I SBC engine (5.0L & 5.7L engines) to the Gen III engines and the new vehicle chassis/body.

\*\*2007 was another transition year for the CK truck platform from the Gen III engines to the Gen IV engines and the new chassis/body.

**Table 1 - Engine crankshaft reluctor wheel and camshaft gear tooth count information**

Year	Make	Model	Engine	Crankshaft reluctor tooth count	Camshaft gear count	Cam gear bolt pattern	PCM/ECM type
2008-2009	GMC	Savana	4.8L, 5.3L, 6.0L	58x	4x	1	E38
1999-2007	GMC	Sierra*	4.8L, 5.3L, 6.0L, 8.1L	24x	1x (on camshaft)	3	Warren
2007-2013	GMC	Sierra**	4.8L, 5.3L & 6.0L	58x	4x	1	E38
2011-2014	GMC	Sierra 2500HD	6.0L	58x	4x	1	E78
2001-2006	GMC	Yukon, Denali, Yukon XL	4.8L, 5.3L & 6.0L	24x	1x (on camshaft)	3	Warren
2007-2013	GMC	Yukon, Denali, Yukon XL	4.8, 5.3, 6.0 & 6.2L	58x	4x	1	E38
1999-2005	Holden	Commodore	5.7L	24x	1x (on camshaft)	3	Warren
2007-2008	Holden	Commodore	6.0L L98	58x	4x	1	E38
2001-2005	Holden	Monaro	5.7L	24x	1x (on camshaft)	3	Warren
2005-2006	Holden Special Vehicles (HSV)		6.0L LS2	24x	1x	3	E40
2007-2009	Holden Special Vehicles (HSV)		6.0L	58x	4x	1	E38
2003-2007	Hummer	H2	6.0L LQ4	24x	1x (on camshaft)	3	Warren
2008-2009	Hummer	H2	6.2L L92	58x	4x	1	E38
2008-2009	Hummer	H3 Alpha	5.3L	58x	4x	1	E67
2003-2004	Isuzu	Ascender	5.3L LM4	24x	1x (on camshaft)	3	Warren
2005-2006	Isuzu	Ascender	5.3L LH6	24x	1x	3	E40
2003-2004	Oldsmobile	Bravada	5.3L LM4	24x	1x (on camshaft)	3	Warren
1998-2002	Pontiac	Firebird	5.7L LS1	24x	1x (on camshaft)	3	Warren
2008-2009	Pontiac	G8	6.0L	58x	4x	1	E38
2009	Pontiac	G8 GXP	6.2L LS3	58x	4x	1	E38
2004	Pontiac	GTO	5.7L LS1	24x	1x (on camshaft)	3	Warren
2005-2006	Pontiac	GTO	6.0L LS2	24x	1x	3	E40
2005-2006	Saab	9-7x	5.3L LH6	24x	1x	3	E40
2007-2009	Saab	9-7x	5.3L LH6	58x	4x	1	E67
2008-2009	Saab	9-7x Aero	6.0L LS2	58x	4x	1	E67
*1999 was a transition year for the CK truck platform from the Gen I SBC engine (5.0L & 5.7L engines) to the Gen III engines and the new vehicle chassis/body.							
**2007 was another transition year for the CK truck platform from the Gen III engines to the Gen IV engines and the new chassis/body.							