Engine Identification for GM LS Engines

The AERA Technical Committee offers the following information on the identification of current GM model LS engines. These engines began limited use in the 1997 in the Corvette and in 1998 in Camaro and Firebird vehicles. This engine family is now approaching 25 years in existence and has been offered in six different displacements in three different generations.

Gen	Years offered	Engine Code (VIN)	Power (hp)	Torque (lb.-ft.)	Size (L)	Fuel type	Bore (in)	Stroke (in)	Comp ratio	Material Block / Heads	Other features
III	1997-05	LS1 (G)	305-350 @ 5600	350-365 @ 4400	5.7	91	3.900	3.620	10.25:1	Aluminum / Aluminum	
III	2001-05	LS6 (S)	385-405 @ 6000	385-400 @ 4800	5.7		3.900	3.620	10.5:1	Aluminum / Aluminum	
III	1999-07	LR4 (V)	255-285	285-295	4.8		3.780	3.300	9.45:1	Iron / Aluminum	
III	1999-07	LM7 (T)	270-295	315-335	5.3		3.780	3.620	9.49:1	Iron / Aluminum	
III	2002-07	L59 (Z)	285-295	320-335	5.3	E85-capable	3.780	3.620	9.9:1	Iron / Aluminum	
III	2003-05	LM4 (P)	290-300	320-325	5.3		3.780	3.620	10.0:1	Aluminum / Aluminum	
III	2005-08	L33 (B)	310 @ 5200	335 @ 4400	5.3		3.780	3.620	10.0:1	Aluminum / Aluminum	
III	1999-08	LQ4 (U)	300-325 @ 5200	360-370 @ 4400	6.0		4.000	3.620	9.4:1	Iron / Iron-Alum heads	
III	2002-07	LQ9 (N)	345 @ 5200	380 @ 4000	6.0		4.000	3.620	10.0:1	Iron / Aluminum	
IV	2008-17	LS3 (W)	426-436 @ 5900	420-428 @ 4600	6.2	93 NO E85	4.060	3.620	10.7:1	Aluminum / Aluminum	sodium exhaust valves
IV	2010-15	L99 (J)	400 @ 5900	410 @ 4300	6.2	E85-capable	4.060	3.620	10.4:1	Aluminum / Aluminum	AFM, VVT,
IV	2009-15	LSA (P)	556-580 @ 6100	551-556 @ 3800	6.2	93 NO E85	4.060	3.620	9.1:1	Aluminum / Aluminum	1.9L Supercharger
IV	2010-12	L94 (F)	403 @ 5700	417 @ 4300	6.2	E85-capable	4.060	3.620	10.4:1	Aluminum / Aluminum	AFM, VVT
IV	2007-09	L76 (Y)	361-367 @ 5600	375-385 @ 4400	6.0		4.000	3.620	10.4:1	Aluminum / Aluminum	AFM
IV	2011-16	L77 (2)	362 @ 5700	391 @ 4400	6.0	E85-capable	4.000	3.620	10.4:1	Aluminum / Aluminum	AFM
IV	2010-17	L96 (G)	322-360 @ 4400-5400	373-382 @ 4200-4400	6.0	E85-capable	4.000	3.620	9.7:1	Iron / Aluminum	VVT
IV	2009-10	L98 (H)	362 @ 5700	391 @ 4400	6.0		4.000	3.620	10.4:1	Aluminum / Aluminum	L76 with AFM hardware removed

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IV	2007-09	LY2 (C)	260-295	295-305	4.8		3.780	3.300	9.08:1	Iron / Aluminum	no VVT
IV	2010-12	L20 (A)	260-302 @ 5400	295-305 @ 4600	4.8	E85-capable	3.780	3.300	8.8:1	Iron / Aluminum	no AFM, VVT
IV	2005-09	LH6 (M)	300-315	330-338	5.3		3.780	3.620	9.95:1	Aluminum / Aluminum	AFM, VVT*
IV	2007-09	LY5 (J)	315-320 @ 5200	335-340 @ 4000	5.3		3.780	3.620	9.95:1	Iron / Aluminum	AFM, VVT*
IV	2008-12	LMG (0)	315-320 @ 5200	335-340 @ 4000	5.3	E85-capable	3.780	3.620	9.6:1	Iron / Aluminum	AFM, VVT*
IV	2007-12	LC9 (3,7)	315-320 @ 5400	335 @ 4000	5.3	E85-capable	3.780	3.620	9.95:1	Aluminum / Aluminum	AFM, VVT*
IV	2005-09	LS4 (C)	303 @ 5600	323 @ 4400	5.3	Regular	3.780	3.620	10.0:1	Aluminum / Aluminum	AFM, FWD
IV	2008-09	LH8 (L)	300 @ 5200	320 @ 4000	5.3	Regular	3.780	3.620		Aluminum / Aluminum	
IV	2007-08	L92 (8)	403	415	6.2		4.060	3.620	10.5:1	Aluminum / Aluminum	VVT
IV	2009-12	L9H (2)	403	415	6.2	E85-capable	4.060	3.620	10.5:1	Aluminum / Aluminum	VVT
IV	2005–07,09	LS2 (U)	390-400 @ 6000	400 @ 4400	6.0	93	4.000	3.620	10.9:1	Aluminum / Aluminum	
IV	2007-10	LY6 (K)	361 @ 5600	385 @ 4400	6.0		4.000	3.620	9.67:1	Iron / Aluminum	VVT
IV	2008-09	LFA (5)	332 @ 5100	367 @ 4100	6.0	Hybrid	4.000	3.620	10.8:1	Aluminum / Aluminum	AFM
IV	2010-12	LZ1 (J)	332 @ 5100	367 @ 4100	6.0	Hybrid	4.000	3.620	10.8:1	Aluminum / Aluminum	AFM | VVT
IV	2009-13	LS9 (R,T)	638 @ 6500	604 @ 3800	6.2	92	4.065	3.620	9.1:1	Aluminum / Aluminum	2.3L SC | Titanium rods | forged pistons | dry sump
IV	2006-15	LS7 (E)	505 @ 6300	470 @ 4800	7.0	91	4.125	4.000	11.0:1	Aluminum / Aluminum	Titanium rods | dry sump
IV/V	Aftermarket	LSX376	473 @ 6000	444 @ 5000	6.2	Regular	4.060	3.620	9:01	Iron / Aluminum	
IV/V	OEM	LSX454	505 @ 5400	515 @ 4400	7.4	Premium	4.185	4.125	10.0:1	Iron / Aluminum	
IV/V	Aftermarket	LSX454	627 @ 6300	586 @ 5100	7.4	92	4.185	4.125	11.0:1	Iron / Aluminum	
IV/V	Aftermarket	LSX454R	776 @ 7000	680 @ 4500	7.4	110	4.185	4.125	13.1:1	Iron / Aluminum	
V	2014–present	LT1 (7)	455-460 @ 6000	460-465 @ 4600	6.2	93 NO E85	4.060	3.620	11.5:1	Aluminum / Aluminum	VVT | DI | dry sump (Corvette) | AFM
V	2020–present	LT2	490-495 @ 6450	465-470 @ 5150	6.2	Premium	4.060	3.620	11.5:1	Aluminum / Aluminum	VVT | DI | dry sump | AFM
V	2015–present	LT4 (6)	640-650 @ 6400	630-650 @ 3600	6.2	Premium	4.060	3.620	10:01	Aluminum / Aluminum	VVT | DI | 1.7L SC | dry sump (Corvette) | AFM

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V	2018–present	LT5 (6)	755 @ 6400	715 @ 3600	6.2	Premium	4.060	3.620	10:01	Aluminum / Aluminum	VVT | Hybrid port/direct injection | 2.6L SC | dry sump
V	2014–present	L83 (C)	355-376 @ 5600	383-416 @ 4100	5.3	E85-capable	3.780	3.620	11.0:1	Aluminum / Aluminum	VVT | DI | AFM
V	2014–present	L86 (J)	420 @ 5600	460 @ 4100	6.2	NOT E85-capable	4.060	3.620	11.5:1	Aluminum / Aluminum	VVT | DI | AFM
V	2020–2021	L8T (7)	401 @ 5200	464 @ 4000	6.6	87	4.060	3.850	10.5:1	Iron / Aluminum	VVT | DI

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