



Chevy L99 Engine Specs

LS Family = Gen. 4, 6.2L, Aluminum Block, Car Engines

Performance Specifications	
Compression Ratio	10.4 : 1
Horsepower Rating	400 hp.
Torque Rating	410 ft./lbs.

Application Information			
VIN 8th Digit	Year	Make	Model
J	2010-15	Chevrolet	Camaro SS (with auto trans.)

Engine Block Specifications	
Casting Number	12584724
Material	Aluminum
Displacement	6.2L / 376 c.i.d.
Bore Dia.	4.065 in.
Stroke	3.622 in.

Deck Height	9.240 in.
Bore Spacing	4.400 in.
Thrust Bearing Location	#3 Main
Main Cap Style	6-Bolt
Main Housing Bore Dia.	2.751 in.
Cam Housing Bore Dia.	Bore 1/5 = 2.346 in. Bore 2/4 = 2.326 in. Bore 3 = 2.307 in.
Cam-to-Crank Centerline	4.914 in.

Rotating Assembly Specifications

Piston Material	Hypereutectic Cast Aluminum Alloy
Piston Style	Flat Top, with valve reliefs
Piston Volume	+3cc
Wrist Pin Dia.	0.9431 in. (Full Floating)
Connecting Rod Material	Powdered Metal
Connecting Rod Style	I-beam
Connecting Rod Length	6.098 in.
Connecting Rod Housing Bore	2.225 in.
Connecting Rod Bolts	M9 x 1 x 43
Connecting Rod P/N	12649190
Crankshaft Material	Cast Iron
Crankshaft P/N	12588612
Crankshaft Main Journal Dia.	2.559 in.
Crankshaft Rod Journal Dia.	2.100 in.
Reluctor Wheel	58X

Cylinder Head Specifications

Casting Number	823
Material	Aluminum
Combustion Chamber Volume	70cc
Intake Port Shape	Rectangle
Intake Runner Volume	257cc
Exhaust Port Shape	D-Port
Exhaust Runner Volume	87cc
Intake Valve Dia.	2.165 in.
Exhaust Valve Dia.	1.590 in.
Cylinder Head Bolt Style	Torque to Yield (TTY)
Cylinder Head Bolt Size	(10) M11 x 2 x 100, (5) M8 x 1.25 x 45

Camshaft Specifications

Camshaft P/N	12623066
Duration @ .050 in. (int./exh.)	195°/201°
Valve Lift (int./exh.)	0.500 in./.492 in.
Lobe Separation	115°
Cam Gear Attachment	1-Bolt
Cam Gear Poles	4X
Active Fuel Management (AFM)	Yes
Variable Valve Timing (VVT)	Yes

Valvetrain Specifications

Lifter Style	Hydraulic Roller
Lifter Link Style	Plastic Lifter Tray
Lifter Body Diameter	0.842 in.
Pushrod Length	7.385 in.

Rocker Arm Mounting Style	Pedestal
Rocker Arm Style	Die-Cast, Roller Fulcrum
Rocker Ratio	1.7
Rocker Offset	Intake Rocker
Valve Spring Style	Beehive
Valve Spring Color	Natural
Valve Angle	15 degrees
Intake Valve Material	Steel, Solid Stem
Intake Valve Dia.	2.165 in.
Exhaust Valve Material	Steel, Solid Stem
Exhaust Valve Dia.	1.590 in.
Timing Chain Guide Style	Spring Loaded Tensioner

Other Specifications	
Intake Manifold	Car-Style
Throttle Body	90mm, 4-bolt, Gold Blade
Throttle Control	Electronic (Drive-by-Wire)
Fuel Injector P/N	12576341
Fuel Injector Flow	42 lb./hr. @ 58 psi
Flex Fuel Capable (E-85)	No
Fuel Injector Length (between O-rings)	1.500 in.
Fuel Injector Connector	EV6-USCAR
PCM	E38
Crankshaft Reluctor Ring	58X
Camshaft Sensor	Front mount, 4X
Oil Pan	Center Sump
Oil Pump	High Volume (1.25 c.i. per rev. @ 33 psi)