



Engine Parts Caution on 2016-2018 GM 3.6L HF Engines

The AERA Technical Committee offers the following information on an engine parts caution for 2016-2018 GM 3.6L HF (high-feature) engines. The HF engines affected are designated engine codes LGX and LGZ and were new codes beginning in the 2016 model year. These engines are significantly different from previous 2004-16 HF engines.

The engineers at GM decided to alter the previous HF engine structure by changing the bore and stroke along with bore spacing. With the increased bore spacing, the new 3.6L DI V6 has larger bores than before, growing from 3.701" (94.000 mm) to 3.740" (95.000 mm) with the same 3.378" (85.800 mm) stroke as the 3.0L LGW, for a total displacement of 3649 cc's. Intake and exhaust valves are also increased in size along with other changes to the cylinder head. Compression ratio is 11.5:1 and maximum engine speed is 7200 RPM.

LGX

Applications:

Year(s)	Model	Power	Torque
2016–present	Cadillac ATS	335 hp (250 kW) @ 6800 RPM	285 lb/ft (386 Nm) @ 5300 RPM
2016–present	Cadillac CT6	335 hp (250 kW) @ 6800 RPM	284 lb/ft (385 Nm) @ 5300 RPM
2016–present	Cadillac CTS	335 hp (250 kW) @ 6800 RPM	285 lb/ft (386 Nm) @ 5300 RPM
2016–present	Chevrolet Camaro	335 hp (250 kW) @ 6800 RPM	284 lb/ft (385 Nm) @ 5300 RPM
2017–present	Buick Lacrosse	310 hp (230 kW) @ 6800 RPM	282 lb/ft (382 Nm) @ 5200 RPM
2018–present	Buick Regal GS	310 hp (230 kW) @ 6800 RPM	282 lb-ft (382 Nm) @ 5200 RPM
2018–present	Holden Commodore	315 hp (235 kW) @ 6800 RPM	281 lb/ft (381 Nm) @ 5200 RPM
2017–present	Cadillac XT5	310 hp (230 kW) @ 6600 RPM	271 lb/ft (367 Nm) @ 5000 RPM
2017–present	GMC Acadia	310 hp (230 kW) @ 6600 RPM	271 lb/ft (367 Nm) @ 5000 RPM



LGZ

The LGZ is a variant of the LGX designed for pickup truck use.

Applications:

Year(s)	Model	Power	Torque
2017–present	GMC Canyon Chevy Colorado	308 hp (230 kW) @ 6800 RPM	275 lb/ft (373 Nm) @ 4000 RPM

With the addition of these new engines it becomes ever so important to obtain specific engine identification before ordering parts or estimating work to be done.