

2009 "LS4" 5.3L V-8 (LS4)		03/19/08
Type:	5.3L Gen IV V-8 Small Block	
Displacement:	5328cc (325 ci)	
Engine Orientation: L=Longitudinal T=Transverse	Transverse	
Compression ratio:	10:1	
Valve configuration:	overhead valves	
Valves per cylinder	2	
Assembly site:	St. Catharines, Ontario, Canada	
Valve lifters:	hydraulic roller	
Firing order:	1 - 8 - 7 - 2 - 6 - 5 - 4 - 3	
Bore x stroke:	96.0 x 92.0 mm	
Bore Center (mm)	111.76	
Bore Area (cm2) (total engine bore area)	579.06	
Fuel system:	sequential fuel injection	
Fuel Type:	Premium Fuel recommended	
Ignition System:	Coil-near-plug	
Application:	Horsepower: hp (kw)	
Chevrolet Impala SS	303 hp (226 kw) @ 5600 rpm	SAE CERTIFIED
Buick Lacrosse " Super "	300 hp (224kW) @ 5600 rpm	SAE CERTIFIED
Application:	Torque: lb-ft. (Nm)	
Chevrolet Impala SS	323 lb-ft (438 Nm) @ 4000 rpm	SAE CERTIFIED
Buick Lacrosse " Super "		
Fuel shut off:	6100 rpm	
Engine Mass (kg/lbs)	190 / 419	
Emissions controls:	catalytic converter three-way catalyst positive crankcase ventilation	
MATERIALS		
Block:	cast aluminum	
Cylinder head:	cast aluminum	
Intake manifold:	composite	
Exhaust manifold:	cast nodular iron	
Main bearing caps:	powder metal	
Crankshaft:	cast nodular iron with undercut and rolled fillets	
Camshaft:	hollow steel	
Connecting rods:	powder metal	
Additional features:	extended life spark plugs extended life coolant oil level sensor Active Fuel Management	