

502 HO

19433157 

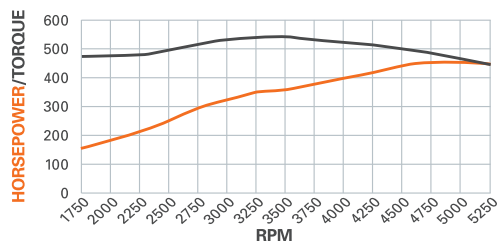
461 hp

@ 5,100 rpm

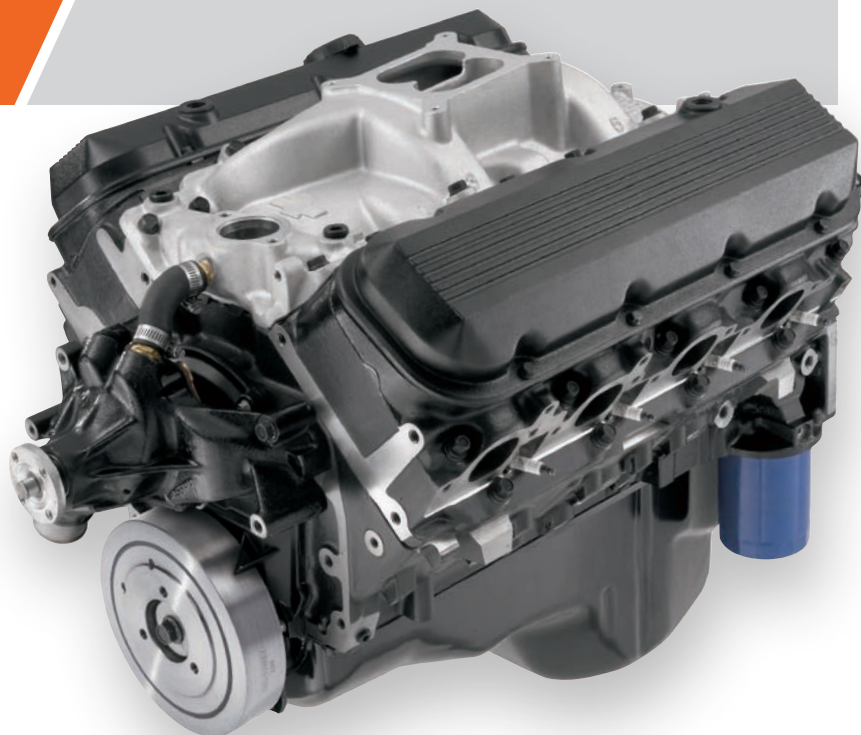
558 lb.-ft.

@ 3,400 rpm

DYNO CHART



NOTE: Refer to page 6 for the complete horsepower and torque testing procedures.



Affordable Big-Block performance

Whether you use it for your drag car or competition pulling truck, the value-driven 502 HO crate engine offers affordable performance. It's rated at 461 horsepower and 558 lb.-ft. of torque, for pulling power that exceeds anything ever offered from Chevrolet's production Big-Block engines. It's real power that only comes from a Big-Block!

To support all that torque, we built the 502 HO with a brand-new, latest-generation block casting with four-bolt main cap. We complement that with an all-forged rotating assembly for exceptional strength and durability, while a hydraulic roller camshaft is used for excellent drivability and a broad performance range. Our crate engine assembly includes an aluminum, dual-plane intake manifold, a water pump, 14-inch flexplate, balancer and more. You add the carburetor, starter and ignition system—all available from Chevrolet Performance.

INSTALLATION NOTES

- Requires addition of carburetor, fuel pump, starter, distributor and ignition system (not included)
- Clutch linkage bosses are now drilled and tapped. When using cast-iron exhaust manifolds, lower head bolts may need to be replaced with bolts with shorter heads, for clearance
- 502 engines now have a mechanical fuel pump boss! (**NOTE:** There is a fuel pump lobe behind the boss.)
- Comes with an externally balanced 14" automatic transmission flexplate; Use flywheel P/N 14096987 and 11" clutch assembly for manual transmission applications
- Not intended for marine applications

Mobil 1 is the recommended engine oil for all Chevrolet Performance Engines

TECH SPECS

Part Number:	19433157
Engine Type:	Chevy Big-Block V-8
Displacement (cu in):	502
Bore x Stroke (in):	4.470 x 4.000
Block (P/N 19170540):	Cast iron with 4-bolt main caps
Crankshaft (P/N 10183723):	Forged steel
Connecting Rods (P/N 19170198):	Forged steel, shot peened
Piston and Ring Kit (P/N 12533507):	Forged aluminum
Intake Manifold (P/N 19131359):	Dual plane
Camshaft Type (P/N 24502611):	Hydraulic roller
Valve Lift (in):	.510 intake / .540 exhaust
Camshaft Duration (@.050 in):	211" intake / 230" exhaust
Cylinder Heads (P/N 12562920):	Iron rectangular port; 118cc chambers
Valve Size (in):	2.190 intake / 1.880 exhaust
Compression Ratio:	8.75:1
Rocker Arms (P/N 19260993):	Stamped steel
Rocker Arm Ratio:	1.7:1
Water Pump (P/N 12708488):	Cast-iron, long-style
Recommended Fuel:	Regular pump
Ignition Timing:	32° Total @ 4,000 rpm
Maximum Recommended rpm:	5,500
Balanced:	External
Flexplate (P/N 10185034):	14"

NOTE: Distributor with melonized steel gear **MUST** be used with long-blocks and partial engines with steel camshafts, or engine damage will occur.



Chevrolet Performance Crate Engines include a 24-month or 50,000-mile/80,000-kilometer limited warranty, whichever comes first. See your GM dealer for details.



Chevrolet Performance does not utilize any used or remanufactured parts in this crate engine, except for the starter, alternator and power steering pump.



This part is intended for competition use only. See page 2 for complete details.