



PERFORMANCE



CrateEngineDepot.com

Grayslake, IL

877-441-5150

www.crateenginedepot.com

ZZ502/502 Base

P/N 12496963 ■ 502 hp @ 5,200 rpm ■ 567 lb.-ft. @ 4,200 rpm

The DIY foundation for big torque!

- Cast-Iron Cylinder Block with 4-Bolt Mains
- Forged Steel Crankshaft
- Forged Steel, Shot-Peened Connecting Rods
- Forged Aluminum Pistons
- Hydraulic Roller Camshaft with .527"/.544" Lift
- Aluminum, Oval-Port Cylinder Heads
- 502 HP and 567 lb.-ft. of Torque
- Pump-Gas-Friendly 9.6:1 Compression Ratio



Crate Engine Only: [See Site for Pricing](#)

Not all items shown are included in all crate engine levels. Prices subject to change. See dealer for details.

ZZ502/502 BASE TECH SPECS

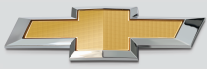
Part Number:	12496963	Cylinder Heads (P/N 12363390):	Aluminum oval port; 110cc chambers
Engine Type:	Chevy Big-Block V-8	Valve Size (in):	2.250 intake / 1.880 exhaust; stainless steel
Displacement (cu in):	502	Compression Ratio:	9.6:1
Bore x Stroke (in):	4.470 x 4.000	Rocker Arms (P/N 12368082):	Stamped steel
Block (P/N 19170540):	Cast-iron with 4-bolt main caps	Rocker Arm Ratio:	1.7:1
Crankshaft (P/N 10183723):	Forged steel	Recommended Fuel:	92 octane
Connecting Rods (P/N 19170198):	Forged steel, shot peened	Ignition Timing:	Base 8° BTDC, 30° total
Pistons (P/N 12533507):	Forged aluminum	Maximum Recommended rpm:	5,800
Camshaft Type (P/N 12366543):	Hydraulic roller	Balanced:	External
Camshaft Lift (in):	.527 intake / .544 exhaust		
Camshaft Duration (@.050 in):	224° intake / 234° exhaust		

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

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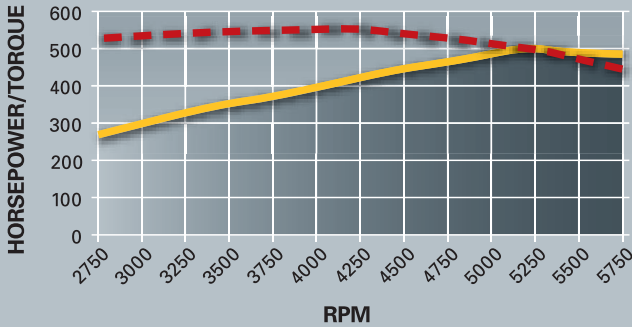


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Additional Components

ZZ502/502 DYNO CHART



Horsepower: 502 @ 5200 rpm

Torque (lb-ft): 567 @ 4200 rpm

BIG HORSEPOWER IN A CONVENIENT PACKAGE

That's the gist of the Chevrolet Performance Crate Engine program – the most comprehensive line of performance engines, ready for everything from the street to the strip. Offering packages from short blocks to turn key engines, in a variety of displacements and horsepower/torque ratings, we have something for every enthusiast.



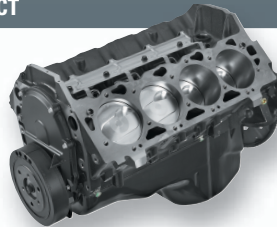
Check out our entire selection in the Chevrolet Performance Parts catalog.

OTHER ENGINE OPTIONS FOR YOUR PROJECT



12371204 ZZ502 Base Kit

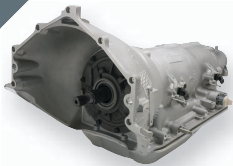
Nothing is quite as satisfying as building your own high-performance Big-Block. With the ZZ502 Base Kit, every part is engineered to work together to deliver 502 horses!



12568782 502 Partial Engine

This brand new Partial engine includes forged reciprocating components, as well as the balancer, oil pan and timing chain set.

SELECT THE PARTS BELOW TO FINISH YOUR CRATE ENGINE AND GET IT RUNNING IN LESS TIME!



19300175 SuperMatic™ 4L85-E Four-Speed Transmission



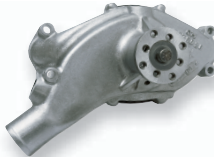
19212657 Transmission Controller



19299805 Torque Converter



19172805 Serpentine Accessory Drive Belt System With Air Conditioning



19168602 Aluminum Water Pump, Short-Style



19170095 Carburetor, Holley 850-cfm



Chevrolet Performance Crate Engines include a 24-month or 50,000-mile/80,000-kilometer limited warranty.



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

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Every effort is made to make this sell sheet comprehensive and factual. We reserve the right, however, to make changes at any time, without notice, to materials, equipment, specifications, and availability. Specifications, dimensions, measurements, ratings, and other numbers are based upon design and engineering information, prototypes and laboratory tests. Since some information may have been updated since the time of printing, please check with your dealer for complete details.