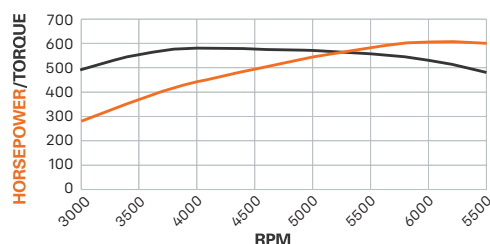


# SP502/605 Deluxe

**19421200** 🏁

**605 hp**
**@ 6,000 rpm**
**580 lb.-ft.**
**@ 4,000 rpm**

## DYNO CHART



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



## One of Our most popular Big-Blocks is elevated with more power!

With the popular and proven ZZ502 as its starting point, Chevrolet Performance engineers took its capability to the next level to create the more powerful SP502/605 Deluxe, which is rated at a strong 605 hp and 580 lb.-ft. of torque. It's the sort of power for your vintage muscle car, hot rod or classic truck that comes only from the incomparable Big-Block family.

New, higher-compression pistons, a new hydraulic-roller camshaft, CNC-ported oval-port heads and more drive the SP502/605's greater output — and this all-new Big-Block crate engine is distinguished with all-new cast aluminum valve covers based on the striking, contemporary design introduced on the ZZ632. It is offered in a Deluxe kit that includes an 850-cfm carburetor and aluminum intake manifold, HEI distributor, plug wires, water pump and balancer. It also includes a new-design seven-quart oil pan.

## INSTALLATION NOTES

- Due to crate fitment, the carburetor is shipped in a separate box and must be installed by the engine installer
- Clutch linkage bosses are drilled and tapped. When using cast iron exhaust manifolds, lower head bolts may need to be replaced with bolts for shorter heads, for clearance
- Block features 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

<b>Part Number:</b>	19421200
<b>Engine Type:</b>	Chevy Big-Block V-8
<b>Displacement (cu in):</b>	502
<b>Bore x Stroke (in):</b>	4.470 x 4.000
<b>Block (P/N 19434240):</b>	Cast iron with 4-bolt main caps
<b>Crankshaft (P/N 19431552):</b>	Forged steel
<b>Connecting Rods (P/N 19435159):</b>	Forged steel, shot-peened
<b>Pistons (P/N 19434228):</b>	Forged aluminum
<b>Intake Manifold (P/N 12363407):</b>	Aluminum dual-plane
<b>Carburetor (P/N 19420446):</b>	850-cfm four-barrel
<b>Camshaft Type (P/N 19418730):</b>	Hydraulic roller
<b>Valve Lift (in):</b>	0.649 intake / 0.650 exhaust
<b>Camshaft Duration (@ 0.050 in):</b>	246° intake / 257° exhaust
<b>Cylinder Heads (P/N 19435585):</b>	Aluminum oval port, 117cc chambers
<b>Valve Size (in):</b>	2.250 intake / 1.880 exhaust; stainless steel
<b>Compression Ratio:</b>	10.3:1
<b>Rocker Arms (P/N 19244484):</b>	Aluminum roller-style
<b>Rocker Arm Ratio:</b>	1.7:1
<b>Water Pump (P/N 19168602):</b>	Aluminum, short-style
<b>Recommended Fuel:</b>	Premium pump
<b>Distributor (P/N 19432312):</b>	HEI type
<b>Spark Plugs and Wires:</b>	Included
<b>Ignition Timing:</b>	34° total at 4000 RPM
<b>Maximum Recommended RPM:</b>	6200
<b>Balanced:</b>	External
<b>Flexplate (P/N 10185034):</b>	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.