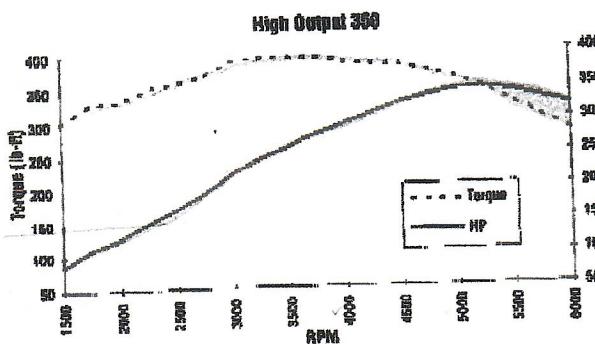
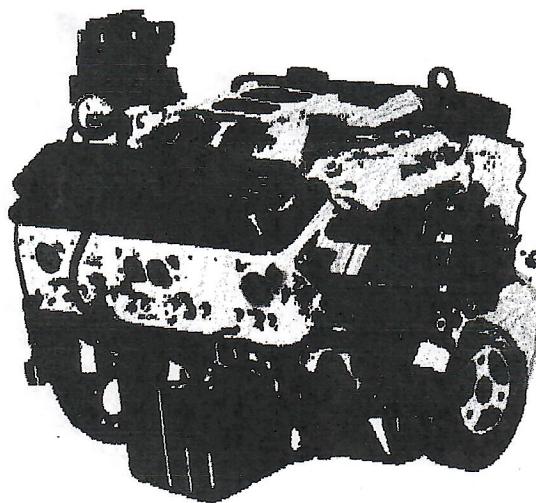


# CHEVY SMALL-BLOCK V8



**NEW**

## GROUP 0.001 ENGINE ASSEMBLIES

### 24502609Z — High Output 350 ci (5.7L) V8 Engine

The 350 CI High Output Chevrolet is the perfect powerplant for many high-performance applications. It can be used in a pre-1988 passenger car, truck or later models for off-highway (not certified for marine use).

Several significant improvements have been made to the 350 High Output small-block V8. This updated engine assembly is available as P/N 24502609 (Z24 manufacturing code).

The HO engine offers outstanding performance at an affordable price. It is a bolt-in replacement for all 265-400ci small-block Chevrolet V8s.

High Output 5.7-liter engines are assembled using brand new premium quality components. This assembly combines proven small-block components with the latest advances in engine technology, including lightweight aluminum cylinder heads, low-friction hydraulic roller tappets, and high-silicon pistons. All HO small-blocks are fire-tested and final balanced at the factory to ensure their quality and performance.

This HO 350 engine was tested with a Quadrajet carburetor, 1 3/4" headers,

and low-restriction mufflers.

The following are features of the HO engine assembly:

**Intake Manifold:** A new low-profile dual-plane aluminum intake manifold (P/N 10185063) produces the same horsepower as previous high-rise designs, but provides increased hood clearance and more versatility. The manifold has a dual-pattern flange that accommodates both standard-flange Holley and spread-bore Quadrajet four-barrel carburetors. This manifold has provisions for all late-model accessory brackets, EGR (exhaust gas recirculation), and an integral hot air choke. (Blockoff plates are installed on the EGR and choke tube on HO 350 engines.)

**Camshaft:** A hydraulic roller camshaft (P/N 10185071) bolsters mid-range torque and improves driveability without sacrificing peak horsepower. This dual-pattern profile has .474" intake lift and .510" exhaust lift. Intake duration is 208° (at .050" tappet lift), and exhaust duration is 221° (at .050" tappet lift).

**Valvetrain:** The HO 350 valvetrain has been updated with lightweight LT4 valve spring and valve spring retainers that have half the mass of the previous design. Valve stem seals have been added to the exhaust valves to enhance oil control, and the aluminum cylinder heads are now built with radiused valve seat inserts.

**Rocker Covers:** The HO engine's stamped steel rocker covers provide PCV valve and oil fill holes on both covers.

**Accessories:** The 5.7-liter High Output engine assembly also includes a torsional damper, a cast iron water pump (standard rotation, long-style), a 12 3/4" diameter automatic transmission flexplate (153 tooth ring gear), and a dipstick. It does not include spark plug wires, pulleys, exhaust manifolds, a starter motor, an oil filter, an oil filter adapter, a fuel pump, or external accessories. NOTE: Service with eight AC FR5LS, 904 flat washer design, or MR43LTS tapered seat design spark plugs; either design will work. If colder heat range is required, use FR3LS or FR2LS.

### HO 350 SPECIFICATIONS

**Part Number:** 24502609 (Z24)

**Displacement:** 350 cu. inches (5.7-liter)

**Horsepower:** 355 at 5250

**Torque:** 405 lb-ft at 3500

**Bore & Stroke:** 4.00" x 3.48"

**Compression Ratio:** 10:1

**Engine Block:** Cast iron with 4-bolt intermediate main bearing caps (P/N 10105123)

**Crankshaft:** Undercut and rolled fillet LT4 nodular iron crankshaft.

**Connecting Rods:** Steel P/N 10108688

**Pistons:** High silicon aluminum piston with offset pins (P/N 10159436)

**Piston Ring:** 14089025

**Camshaft:** Hydraulic roller tappet (P/N 10185071) —

**Valve Lift (Intake/Exhaust):** .474/.510

**Durallion (Intake/Exhaust):** 208/221 degrees at .050" tappet lift

**Valve Lash (Intake/Exhaust):** Zero/Zero

**Cylinder Heads:** Cast aluminum, 58cc chambers, angled spark plugs, screw-in rocker studs (P/N 12556463)

**Intake Valve:** (1.94") P/N 10188465    **Exhaust Valve:** (1.50") P/N 10168514

**Valve Spring:** LT4 chrome silicon 1.340" diameter (P/N 12551483)

**Rocker Arm Ratio:** 1.5:1

**Distributor:** High Energy Ignition with centrifugal and vacuum advance (P/N 1103436)

**Initial Spark Setting:** 10° BTC @ 800 rpm with a maximum of 32° at 4000 rpm with vacuum advance disconnected.

**Spark Plugs:** AC FR5LS, 904, or MR43LTS

**Maximum Recommended Engine Speed:** 5800 rpm

**Fuel Requirement:** Premium unleaded (92 octane)