



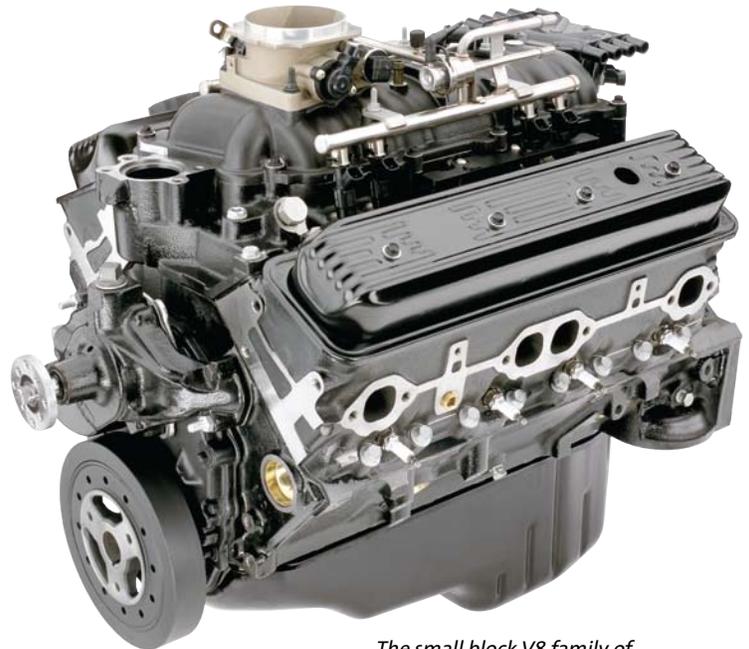
All the excitement of the GM
small block available in a
marine engine

Vortec 5000

Marine Engine

Features & Benefits

- High-flow cylinder head with straighter intake ports and a higher compression ratio delivers impressive horsepower
- Increased cooling around hardened exhaust valve seats for added durability
- Valvetrain features advanced design silent timing chain for added durability and positive inlet valve stem seals for reduced oil consumption
- Roller valve lifters for reduced friction and improved performance
- Composite front timing cover for noise reduction and corrosion protection
- Flywheels are offered with front- or rear-mounted 14" ring gear for various starter locations to suit inboard and sterndrive applications
- Water pump is effective rotating in either a clockwise or counterclockwise direction
- Cylinder head gaskets have stainless steel core for corrosion resistance
- Offered with mechanical or electronic throttle body unit
- Fuel injection reliability improved by new injector design



The small block V8 family of marine engines offers proven reliability and durability over a range of horsepower and torque. (9ZA model shown.)



MEFI-5 (Marine Electronic Fuel Injection - Fifth-Generation), is an advanced engine controller capable of meeting all the emissions, OBD-M and driveability requirements of marine applications.

Available Options

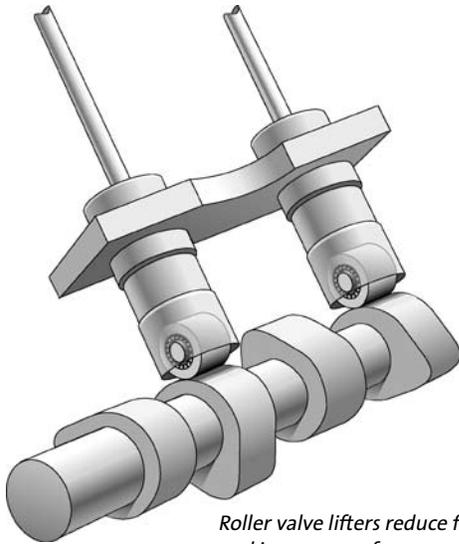
- An electronic control module (ECM) and related hardware are available in kit form. The ECM uses state-of-the-art technology to optimize fuel and spark requirements.
- EST and HEI distributors and coils are available in kit form.

Vortec 5000 Feature Focus

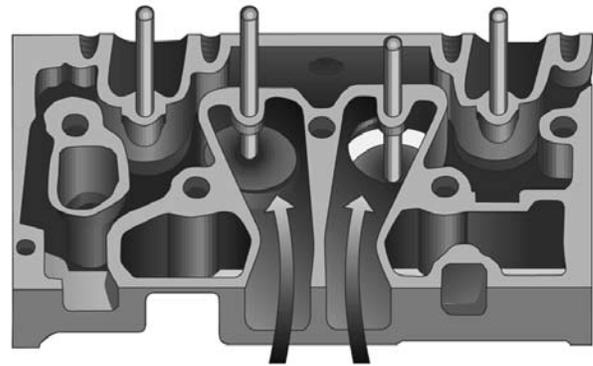
GM Powertrain takes its expertise in designing outstanding Vortec truck and SUV engines and leverages it to make sophisticated yet extremely durable marine engines. In addition, the well-recognized Vortec brand name by itself has become a valuable selling tool for OEMs.



Many of GM marine engines are Vortec engines. Vortec means uncompromised power — outstanding power with no sacrifice in fuel efficiency or durability and very little required maintenance.



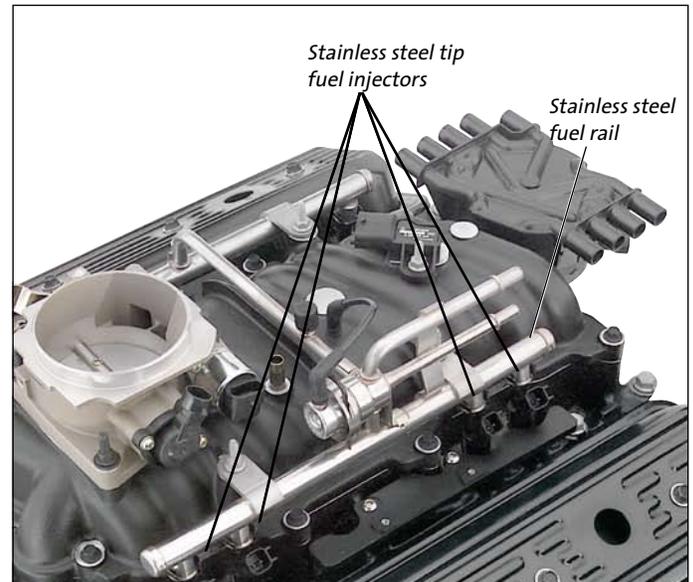
Roller valve lifters reduce friction and improve performance.



A high-flow cylinder head, with straighter intake ports and a higher compression ratio, delivers significantly better combustion.



The Vortec 5000 V8 engine is based on GM's small block V8 series, one of the most successful engines in automotive history.



The Integral Air Fuel Module (IAFM) incorporates several features into one integral assembly. The bottom of the inlet manifold is made of iron and the top is made of aluminum. Integrated into the module are a stainless steel fuel rail, stainless steel tip fuel injectors, and a throttle body that includes a Throttle Position Sensor (TPS) and an Idle Air Control (IAC) motor.

Specifications

Type: 5.0L V8 Gen 1e Small Block
Displacement: 305 cid (4999 cc)
Engine Orientation: Longitudinal
Compression Ratio: 9.4:1
Valve Configuration: Overhead Valves
 (2 valves per cylinder)

Assembly Site: Toluca, Mexico
Valve Lifters: Hydraulic Roller
Firing Order: 1-8-4-3-6-5-7-2
Bore x Stroke: 95 X 88.39 mm
Bore Center: 111.76 mm
Bore Area: 567.06 cm²
Fuel System: Port Fuel Injection with
 mechanical or electronic throttle body unit
Fuel Type: Regular Unleaded
Horsepower: 253 hp (189 kW) @ 4800 rpm
Torque: 302 lb-ft (409 Nm) @ 3800 rpm

Actual power levels may vary depending on OEM calibration and application.

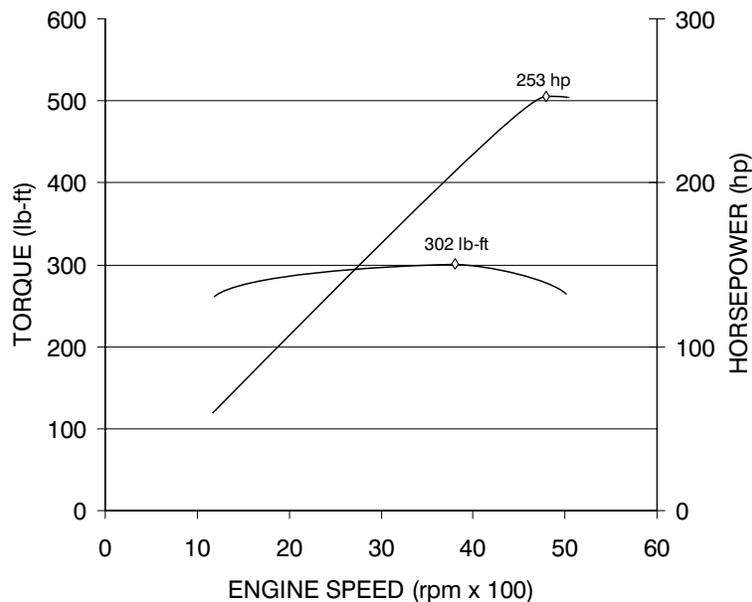
Power should be limited for durability to 250 hp.

Fuel Shutoff: MEFI-5 Yes
Shipping Weight: 432 lb (196 kg)
Emissions Controls: Positive Crankcase
 Ventilation

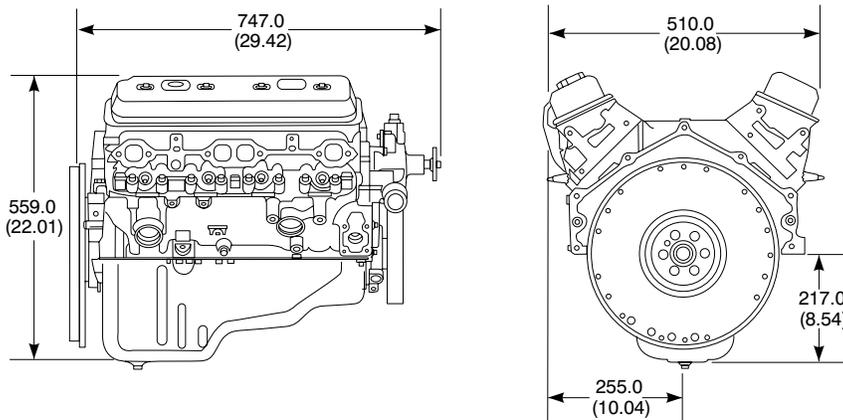
Materials:

Block: Cast Iron GM232-M
Cylinder Head: Cast Iron
Intake Manifold: Iron Lower
 Aluminum Upper
Exhaust Manifold: None
Main Bearing Caps: Cast Iron GM232-M
Crankshaft: Nodular Iron
Camshaft: 5150 Steel Billet
Connecting Rods: Forged - SAE 1141

Information may vary with application. All specifications listed are based on the latest product information available at the time of publication. The right is reserved to make changes at any time without notice.



Actual power levels may vary depending on OEM calibration and application.



GM Powertrain

www.gmpowertrain.com