

Advanced Electronic Control Module

GM Powertrain revolutionized the boating industry when it introduced electronic controls.

Many boaters remember the years before GM Powertrain introduced electronic fuel injection to the marine market. They remember how difficult it sometimes was simply to start the engine, and they remember that boats would often stall during idle or docking maneuvers. They remember that going to full throttle often meant hesitation and that engine knock was common. GM Powertrain's marine electronic engine management system changed all that.

GM Powertrain has continued to innovate. A fourth-generation marine EFI electronic control module (ECM) has coil-near-plug and controller area network (CAN) capabilities. It was developed specifically for the marine industry and is an extremely rugged and durable module that can handle very high temperatures and severe vibrations.



This fourth-generation EFI electronic control module uses a thick-film, hybrid technology that literally prints the circuits onto the circuit board.

Vortec HP3 8100 V-8 Marine Engine

Specifications

Configuration:	8.1L V-8
Displacement:	496 cid (8127 cc)
Bore x Stroke:	4.25 x 4.37 in (107.95 mm x 111 mm)
Valvetrain:	Pushrod actuated, overhead canted valves (2 valves per cylinder)
Valve Lifters:	Hydraulic rollers
Compression Ratio:	9.1:1
Firing Order:	1-8-7-2-6-5-4-3
Fuel System:	Port fuel injection
Recommended Fuel:	Gasoline (unleaded)
Main Bearing Caps:	4-bolt cast iron
Peak Horsepower:*	525+ hp (392 kW) @ 5400 rpm
Peak Torque:*	560+ lb-ft (685 Nm) @ 4000 rpm
Mass (as Shipped):	740.75 lb (336 kg)
Manufactured:	Tonawanda, NY

* Horsepower and torque may vary with application.

MATERIALS:

Cylinder Block:	Cast iron
Cylinder Head:	Cast iron (with exhaust valve seat inserts)
Crankshaft:	Cast nodular iron
Main Bearing Caps:	Cast nodular iron
Camshaft:	Steel
Connecting Rods:	Forged steel 1141 SAE
Pistons:	Hypereutectic cast aluminum
Intake Manifold:	One-piece coated cast aluminum

COMPONENT DESCRIPTIONS:

Oil Pump:	High-volume oil pump assembly
Engine Oil/Sump Capacity:	7 qt
Throttle Type:	75-mm mechanical throttle body
Fuel Delivery System:	Port fuel injection
Ignition Coils:	Coil-near-plug ignition system
Spark Plugs:	Platinum tipped (1.5-mm gap)

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



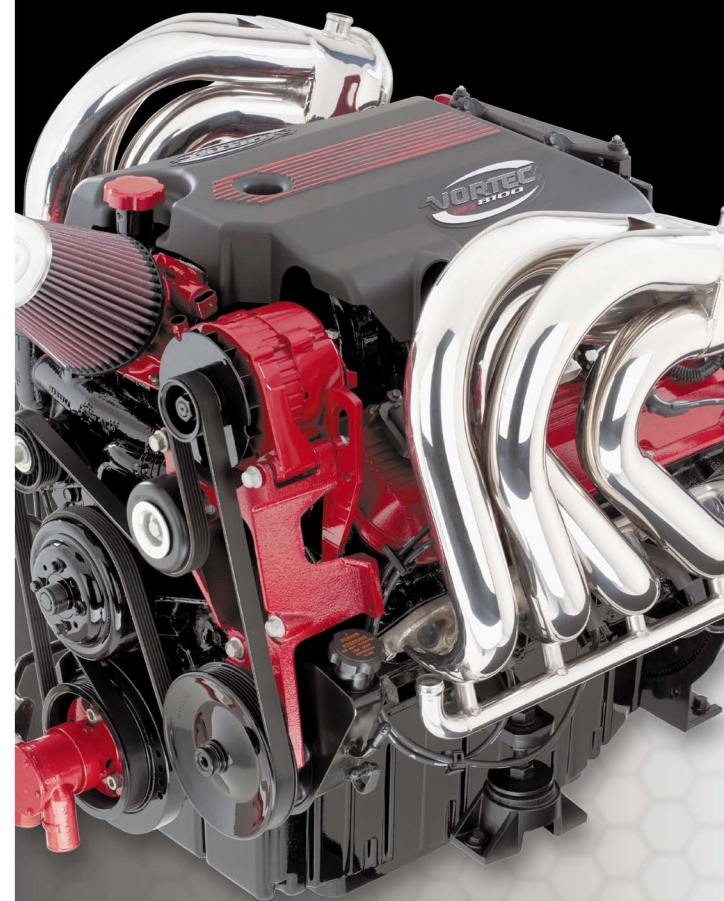
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PRINTED IN U.S.A. 12/02



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The marine industry receives the most powerful production engine ever offered by GM Powertrain



2002 Vortec HP3
8100 V-8 Marine
Engine