

auto tech

Breaking Down Today's Top Engines

(NAPSA)—Today's engines provide more horsepower, more speed—and more fun—than ever before. Many of the most modern designs, however, are based on some classic concepts that never seem to go out of style.

For instance, one of the most powerful engines today is a close descendant of an engine that powered some of the most popular muscle cars of the '60s. In fact, the design was so popular that autos featuring the engine have been in countless movies and helped drive pop culture for years. The engine: the HEMI®.

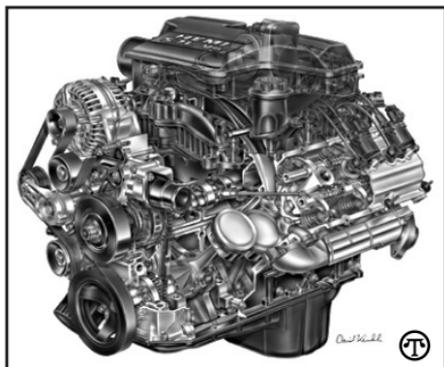
The modern HEMI has been re-engineered to be a modern, high-performance, fuel-efficient, 5.7-liter V-8 power plant. Customers benefit from best-in-class power, torque and towing. Like its predecessor, today's HEMI still has its hemispherically shaped combustion chamber design and the cross-flow valve arrangement that made the classic engine so popular with car enthusiasts.

Here's a breakdown of the new HEMI's specs:

- The 5.7-liter engine is an internally balanced pushrod (OHV) 90-degree V-8. The cast-iron block is a deep skirt with cross-bolted main bearing caps.

- Fuel economy has been improved, but not at the expense of HEMI performance. Multi-Displacement System (MDS) is technology that deactivates four cylinders when the V-8 is not needed. This increases fuel economy by up to 20 percent.

- The aluminum cylinder head features a two-valve-per-cylinder,



This 5.7-liter, V-8 power plant drives some of today's most popular vehicles.

hemispherical combustion chamber with dual spark plugs and a coil-over-plant ignition.

- An Integrated Air Fuel Module (IAFM) incorporates the function of 26 individual components in the induction and fuel system, thereby reducing cost, weight and engine plant complexity.

- The engine marks Chrysler Group's first application of an electronic throttle control system in a rear-wheel-drive vehicle. The system uses a DC motor with reduction gears to open and close the throttle, for optimal control of the airflow into the engine.

- The power plant's simple and efficient design means servicing and repairs are easier and less costly.

The new HEMI is featured in the following vehicles: Dodge Ram, Magnum RT and Durango, Chrysler 300C and Jeep® Grand Cherokee. Later this year, the HEMI will be available in the all-new Dodge Charger and Jeep Commander.

For more information, visit www.daimlerchrysler.com.