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## The 5.7-liter HEMI®

June 9, 2004, Auburn Hills, Mich. -

View video animations of the Multi-Displacement System. (Requires Real Player)

"5.7L HEMI Multi-Displacement System (MDS)

animation"

"Dodge Magnum HEMI 5.7L V-8 animation"

(Close-up view, approx. 30 seconds)

(Overhead view, approx. 30 seconds)

High bandwidth

Medium bandwidth

Low bandwidth

High bandwidth

Medium bandwidth

Low bandwidth

• The Chrysler Group 5.7-liter HEMI<sup>®</sup> is Elegantly Simple, Delivering Power and Fuel Economy

No other engine in U.S. history has the heritage and recognition of the Chrysler Group HEMI<sup>®</sup>. While completely reengineered from the legendary 426 HEMI V-8 that powered Chrysler muscle cars of the 1960s, the two features that earn the new 5.7-liter HEMI power plant its HEMI name are:

- The hemispherically shaped combustion chamber designed to accommodate large valves and put the spark plugs close to the center of the combustion chamber
- The cross-flow valve arrangement that is perpendicular to the crank-shaft centerline

## **Facts and Features**

In the Chrysler 300C, Dodge Magnum RT and the all-new 2005 Jeep<sub>®</sub> Grand Cherokee, the 5.7-liter
 HEMI is equipped with Chrysler Group's Multi-Displacement System (MDS), which turns off four of the cylinders when V-8 power is not needed, giving customers up to a 20 percent improvement in fuel

economy.

- The 5.7-liter HEMI engine is an internally balanced pushrod, OHV 90-degree V-8.
- The cast iron block is a deep-skirt design with cross-bolted main bearing caps.
- The aluminum cylinder heads feature two valves per cylinder, hemispherical combustion chambers with dual spark plugs and coil-over-plug 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 5.7-liter HEMI marks Chrysler Group's first application of an electronic throttle control in a rear-wheeldrive vehicle.
- A systematic approach to sealing, using premium elastomeric materials and state-of-the-art practices, helps ensure a leak-free, weep-free engine.
- The power plant's simple and efficient design means servicing and repairs are easier and less costly.

## **Specifications**

• Type and description: Eight cylinders, 90-degree V-type, liquid cooled

• Displacement: 345 cu. in. (5.7-liter)

• Bore x stroke: 3.92 in. x 3.58 in. (99.5 mm x 90.9 mm)

- Valve system: Pushrod-operated overhead valves, 16 valves (eight deactivating, eight conventional when equipped with Multi-Displacement System), hydraulic roller lifters
- Fuel injection: Sequential, multi-port, electronic, returnless
- Construction: Deep-skirt cast iron block with cross-bolted main bearing caps. Aluminum alloy heads with hemispherical combustion chambers
- Compression ratio: 9.6:1
- Power (SAE net): 345 hp (257 kW) @ 5400 rpm, (61.0 hp/L), truck applications; 340 hp (254 kW) @ 5000, passenger vehicle applications
- Torque (SAE net): 375 lb.-ft. (508 Nm) @ 4200 rpm, truck applications; 390 lb.-ft. (525 Nm) @ 4000, passenger vehicle applications
- Max. engine speed: 5800 rpm (electronically limited)
- Fuel requirement: Unleaded mid-grade, 89 octane (R+M)/2 recommended; Unleaded regular, 87 octane (R+M)/2 acceptable
- Oil capacity: 7 qt. (6.6L)

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