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2007 Dodge Magnum SRT8: Engineering

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ENGINEERING

Kipp Owen, Director – Street and Racing Technology, Chrysler Group: *"Dodge Magnum offers bold, in-your-face styling with great performance. The 2007 Dodge Magnum SRT8 is a 'Magnum on steroids' that delivers benchmark performance at the best price."*

SRT engineers developed the Dodge Magnum SRT8's HEMI V-8 engine to produce 425 horsepower (317 kW) and 420 lb.-ft. (569 N•m) of torque by adding cubic inches, increasing the compression ratio, and redesigning the cylinder head and intake and exhaust systems for better flow and increased engine speed.

Power for the SRT 6.1-liter HEMI is channeled through a five-speed automatic transmission with specially calibrated, driver-selectable Auto Stick, which offers fully automatic or manual shifting selection. A heavy-duty, four-flange prop shaft sends the torque from the transmission to an upgraded differential and axles.

Chassis setup for the 2007 Dodge Magnum SRT8 is aimed at all-around performance with SRT-tuned dampers, tailored spring rates and suspension bushings, and large-diameter anti-sway bars. For added stability and aerodynamic benefit, the ride height of the Magnum SRT8 is one-half inch lower than the Dodge Magnum, while the Electronic Stability Program (ESP) has been tuned for the 2007 Dodge Magnum SRT8's performance-handling characteristics.

The braking system of the 2007 Magnum SRT8 features performance calipers developed by Brembo and finished in red. Each is equipped with four pistons, gripping 360 mm x 32 mm vented rotors up front, with 350 mm x 26 mm vented rotors in the rear.

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