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## 2006 Dodge Viper SRT10: Engineering

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### ENGINEERING

**Kipp Owen, Director – Street and Racing Technology:** *“With bold, in-your-face performance, the Dodge Viper SRT10 remains the icon of the Dodge brand. With the introduction of the Dodge Viper SRT10 Coupe, Dodge and SRT offer two ways to enjoy the Viper legend.”*

An aluminum-block 8.3-liter (505 cubic-inch) V-10 engine powers the 2006 Dodge Viper SRT10, generating 510 horsepower (380 kW) and 535 lb.-ft. (725 N•m) of torque – 90 percent of it available in the 1,500- to 5,600-rpm range. And with all that power comes certification as a Low Emissions Vehicle (LEV).

Transferring the Dodge Viper SRT10's power to the rear wheels is a heavy-duty six-speed manual transmission.

Stopping power is another carefully developed part of the Viper SRT10 equation, with 14-inch brake rotors gripped by Brembo 44/40 dual opposing piston calipers in the front and Brembo 42/38 dual opposing calipers in the rear. This system results in a world-class braking performance of 60 mph-to-zero in less than 100 feet.

Dodge Viper SRT10 performance is further defined by a race-bred aluminum, four-wheel independent suspension featuring lightweight, high-performance aluminum control arms and knuckles, damped by lightweight coil-over shock absorbers. Power is delivered to the pavement via a Dana 44-4 Hydra-Lok speed-sensing limited-slip differential.

The 2006 Dodge Viper SRT10 rides on forged aluminum, polished 18- x 10-inch front and 19- x 13-inch rear wheels, clad in Michelin zero-pressure run-flat tires. Each tire includes low-pressure sensors in the valve stem.

### Dodge Viper Competition Coupe

Beginning in 1995, Dodge began campaigning a “factory” racing Viper -- the Viper GTS-R. In 2003, the newest generation of racing Viper was unveiled -- the Viper Competition Coupe.

The Dodge Viper Competition Coupe makes use of race-bred technologies, including a carbon fiber-Kevlar coupe body. At the same time, it makes use of many Dodge Viper SRT10 production pieces to keep the retail price at slightly more than \$130,000.

Other enhancements for competition include a safety cage, window net, six-point driver restraints, fire-suppression system, differential cooler, ducted brakes and racing slicks. A track-ready chassis based on the Dodge Viper SRT10 Roadster is also key to the Viper Competition Coupe's readiness for serious racing action.

The Dodge Viper Competition Coupe is powered by a V-10 engine tuned for 520 horsepower (387 kW) and 540 lb.-ft. (732 N•m) of torque -- serious power for a serious race car.

The Dodge Viper Competition Coupe cannot be registered for the street. But, it is eligible to compete in GT-class racing in venues including the Sports Car Club of America (SCCA) SPEED World Challenge and the Viper Racing League.

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