

TECHNICAL SPECIFICATIONS

The information shown is based on data available at the time of publication (June, 2006).

Body and Chassis

Five-seater, four-door sedan, all-steel unitary body chassis. Choice of four longitudinally mounted front engines driving the rear wheels via a five-speed automatic transmission and sub-framed mounted rear differential.

Engines

3.0-litre CRD engine

Type and layout	Common Rail Diesel, 72 deg V6
Description	Common Rail High Pressure fuel injection system with Piezo injectors, full aluminium die cast head and block, VNT turbocharger intercooled, four-valve per cylinder with DOHC, one balance shaft
Capacity	3.0L
Maximum power (SAE net)	160 kW @ 3800 rpm
Maximum torque (SAE net)	510 Nm @ 1600 – 2800 rpm
Compression ratio	18.0:1
Bore and stroke	83 mm x 92 mm
Camshafts	DOHC chain driven
Valve system	24 valves, two intake/two exhaust valves per cylinder
Fuel injection	Bosch CR4
Materials	Aluminium die cast
Maximum vehicle speed	230 km/h
Minimum Fuel Requirement	Ultra Low Sulfur Diesel Fuel
Oil capacity	8.5L w/ dry filter
Coolant capacity	2.7L for entire cooling system
Emission controls	Two oxidation catalysts and DPF connected with air gap pipe
Emission class	Euro 4

5.7 HEMI® Magnum V8 Petrol

Type and layout	SMPI, 90-degree, V8
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Description	Liquid-cooled with three-plenum intake manifold with electronically controlled manifold tuning valve and short-runner valves
Capacity	5.7L (5654 cc)
Maximum power (SAE net)	250 kW @ 5000 rpm
Maximum torque (SAE net)	525 Nm @ 4000 rpm
Compression ratio	9.6:1
Bore and stroke	99.5 mm x 90.9 mm
Camshafts	Pushrod-operated overhead valves
Valve system	16 valves, one intake and one exhaust per cylinder
Fuel injection	Sequential, multi-port, electronic
Materials	Cast iron, deep-skirt, block with cast aluminium alloy heads featuring hemispherical combustion chambers
Maximum vehicle speed	250 km/h, electronically limited
Minimum fuel requirement	91 RON unleaded petrol
Oil capacity	6.6L, with dry filter
Coolant capacity	13.0L
Emission controls	Dual three-way catalytic converters, with heated oxygen sensors and internal engine features
Emission class	Euro 4

3.5 High Output V6 Petrol

Type and layout	SMPI, 60-degree, V6
Description	Liquid-cooled with three-plenum intake manifold with electronically controlled manifold tuning valve and short-runner valves
Capacity	3.5L (3518 cc)
Maximum power (SAE net)	183 kW @ 6400 rpm
Maximum torque (SAE net)	340 Nm @ 3800 rpm
Compression ratio	10.0:1
Bore and stroke	96.0 mm x 81.0 mm
Camshafts	Twin overhead, per cylinder bank
Valve system	24 valves, two intake and two exhaust per cylinder
Fuel injection	Sequential, multi-port, electronic
Materials	Cast-aluminium alloy block with cast-iron cylinder liners, cast-aluminium alloy heads
Maximum vehicle speed	219 km/h

Fuel recommendation	91 RON unleaded petrol
Oil capacity	5.7L, with dry filter
Coolant capacity	9.75L
Emission controls	Three-way catalytic converters, electronic EGR and internal engine features
Emission class	Euro 4

Transmissions

5-speed Automatic

Availability	Standard fit with 3.5L V6, 5.7L HEMI and 3.0L Diesel
Description	Five-speed electronically controlled adaptive automatic transmission, with choice of fully automatic operation or AutoStick driver-operated manual control. Brake/Park safety interlock

Gear Ratios

1st	3.58
2nd	2.19
3rd	1.41
4th	1.00
5th	0.83
Reverse	3.17
Final Drive Ratio	2.82 (3.0-litre CRD engine)
Overall Top Gear	2.34 (3.0-litre CRD engine)

Drivelines

Rear-wheel drive

Two-piece driveshaft with subframe-mounted rear differential. Half-shaft to each rear wheel fitted with two constant velocity universal joints.

Drive to rear wheels via two-piece driveshaft with subframe-mounted rear differential. Half-shaft to each rear wheel fitted with two constant velocity universal joints

Suspension and Damping

Front	Sub-frame mounted, independent by unequal-length double wishbones, with anti-dive geometry. Co-axial coil springs and gas-filled shock absorbers
Rear	Sub-frame mounted, independent five-link, with anti-squat geometry. Separate coil springs and gas-filled shock absorbers

Steering

Type	Hydraulic power-assisted rack and pinion
Overall ratio	16.1:1
Gearing	2.75 turns lock-to-lock
Turning circle	11.8 m (Curb to curb)
Adjustment	Steering wheel adjustable for rake (tilt) by 5.2 degrees

Brakes

Front	
Discs	345 mm x 28 mm ventilated
Calipers	42 mm diameter dual-piston sliding calipers
Swept area	1884 sq. cm
Rear	
Discs	320 mm x 22 mm ventilated
Calipers	42 mm diameter single-piston calipers
Swept area	1680 sq. cm

System

Power assistance	Tandem diaphragm vacuum
ABS anti-lock	Standard
Traction control	Standard
ESP	Standard
Brake assist	Standard

Wheels and Tyres

Standard fit equipment listed. Other sizes and brands may also be used. Type and

material	Cast-aluminium with x-bolt mountings
Front	18.0 x 7.5 inch, with 225/60R 18W tires
Rear	18.0 x 7.5 inch, with 225/60R 18W tires
Tire make and type	Pirelli P7
Spare tire configuration	T145/80 D18

Other sizes and brands may also be used.

Dimensions

Exterior

Overall length	5015 mm
Overall width	1880 mm
Overall height	1535 mm
Wheelbase	3050 mm
Ground clearance	144 mm
Front track	1600 mm
Rear track	1605 mm

Frontal area 2.36 sq. m

All dimensions measured at curb weight

Interior

Front

Head room	983 mm
Leg room	1061 mm
Shoulder room	1510 mm
Hip room	1421 mm
Seat travel	
Driver	270 mm
Passenger	220 mm
Volume index	1.56 cu. m

Rear

Head room	966 mm
Leg room	1020 mm
Shoulder room	1466 mm
Hip room	1421 mm
Volume index	1.43 cu. m

Cargo 504L

Weights (kg/)

	3.5L	5.7L	3.0L CRD
Maximum curb weight	1802	1900	1901
Maximum gross vehicle weight	2178	2277	2278

(NOTE: The GVW includes passengers, cargo, maximum options, and full fuels and lubricants. The curb weight includes a 75 kg driver and full quantities of fuels and lubricants.)

Capacities**3.5L 5.7L 3.0L CRD**

Fuel tank capacity L

	68	71	71
Maximum trailer weight (kg/)	1725	1725	2000
Oil (with dry filter)	5.7L	6.6L	8.5L
Coolant	9.75L	13.0L	12.5L

Fuel Consumption (L/100 km)

	3.5L	5.7L	3.0L CRD
ADR8101	11.1	12.1	8.2
Combined CO ₂	262	288	216

Performance**3.5L 5.7L 3.0L CRD**

Acceleration (0-100 km/h)	9.9 sec	6.8 sec	8.6 sec
Top speed	219 km/h	250 km/h	230 km/h

Service and Warranty

Oil change intervals	12.000 km
Service intervals	12.000 km
Warranty duration	3 years, 100,000 kilometers