

# SPECIFICATIONS

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## PRELIMINARY

The information shown is preliminary and based on data available at the time of publication. All dimensions are in inches (millimeters) unless otherwise noted. All dimensions measured at curb weight with standard tires and wheels.

## GENERAL INFORMATION

Body Style	Four-door sport-utility vehicle
Construction	Steel Uniframe®
Assembly Plant	Jefferson Avenue North, Detroit, USA and Graz, Austria
EPA Vehicle Class	Multi-purpose vehicle
2005 MY Introduction	Fall 2004

## ENGINE: 3.7-LITER SOHC POWER TECH® V-6

Availability	Standard 4 x 2 and 4 x 4 Laredo
Type and Description	90-degree V-type, liquid cooled with balance shaft
Displacement	226 cu. in. (3701 cu. cm)
Bore x Stroke	3.66 x 3.57 (93.0 x 90.8)
Valve System	Chain-driven SOHC, 12 valves and hydraulic end-pivot roller rockers
Fuel Injection	Sequential, multi-port, electronic, returnless
Construction	Cast-iron block and bedplate, aluminum alloy heads, balance shaft
Compression Ratio	9.6:1
Power (estimated SAE net)	210 hp (157 kW) @ 5200 rpm (58.1 hp/L)
Torque (estimated SAE net)	235 lb.-ft. (319 N•m) @ 4000 rpm
Max. Engine Speed	5800 rpm (electronically limited)
Fuel Requirement	Unleaded regular, 87 octane (R + M)/2
Oil Capacity	5.0 qt. (4.7-liter)
Coolant Capacity	14.0 qt. (13.25-liter)

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Emission Controls	Dual three-way catalytic converters, heated oxygen sensors and internal engine features <sup>A</sup>
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Estimated EPA Fuel Economy MPG (City/Hwy)	16/21
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### **ENGINE: 4.7-LITER SOHC POWER TECH V-8**

Availability	Standard 4 x 2 and 4 x 4 Limited, optional
Type and Description	90-degree V-type, liquid-cooled
Displacement	287 cu. in. (4701 cu. cm)
Bore x Stroke	3.66 x 3.41 (93.0 x 86.5)
Valve System	Chain-driven SOHC, 16 valves, and hydraulic end-pivot roller rockers
Fuel Injection	Sequential, multi-port, electronic, returnless
Construction	Cast-iron block and bedplate, aluminum alloy heads
Compression Ratio	9.0:1
Power (estimated SAE net)	230 hp (172 kW) @ 4700 rpm (50.0 hp/L)
Torque (estimated SAE net)	290 lb.-ft. (393 N•m) @ 3700 rpm
Max. Engine Speed	6000 rpm (electronically limited)
Fuel Requirement	Unleaded regular, 87 octane (R+M)/2
Oil Capacity	6 qt. (5.7-liter)
Coolant Capacity	14.0 qt. (13.25-liter)
Emission Controls	Dual three-way catalytic converters, heated oxygen sensors, internal engine features <sup>B</sup>
Estimated EPA Fuel Economy mpg (City/Hwy)	14/20

<sup>A</sup> Meets LEV II evaporative emission requirements in California, New York, Massachusetts, Maine, and Vermont. Meets Tier 2, Bin 5 emission requirements and Clean Fuel Fleet Certification (CCF-LEV) in all other states.

<sup>B</sup> 4 X 2 meets LEV II evaporative emission requirements in California, New York, Massachusetts, Maine, and Vermont. 4 x 2 meets Tier 2 Bin 9A emissions requirements and Clean Fuel Fleet Certification (CCF-LEV) in all other states. 4 x 4 meets LEV II evaporative emission requirements in California, New York, Massachusetts, Maine, and Vermont. 4 x 4 meets Tier I evaporative emissions in all other states and Clean Fuel Fleet Certification (CCF-LEV.) Meets Euro IV in international markets.

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## **ENGINE: 5.7-LITER HEMI V-8**

<b>Availability</b>	Optional – 4 x 4 Limited
<b>Type and Description</b>	90-degree V-type, liquid-cooled
<b>Displacement</b>	345 cu. in. (5654 cu. cm)
<b>Bore x Stroke</b>	3.92 x 3.58 (99.5 x 90.9)
<b>Valve System</b>	Pushrod-operated overhead valves, 16 valves, eight deactivating and eight conventional hydraulic lifters, all with roller followers
<b>Fuel Injection</b>	Sequential, multi-port, electronic, returnless
<b>Construction</b>	Deep-skirt cast-iron block with cross-bolted main bearing caps, aluminum alloy heads with hemispherical combustion chambers
<b>Compression Ratio</b>	9.6:1
<b>Power (estimated SAE net)</b>	325 hp (242 kW) @ 5100 rpm, (57.5 hp/L)
<b>Torque (estimated SAE Net)</b>	370 lb.-ft. (502 N•m) @ 3500 rpm
<b>Max. Engine Speed</b>	5800 rpm (electronically limited)
<b>Fuel Requirement</b>	Unleaded mid-grade, 89 octane (R+M)/2 – recommended, unleaded regular, 87 octane (R+M)/2 – acceptable
<b>Oil Capacity</b>	7 qt. (6.6-liter)
<b>Coolant Capacity</b>	14.5 qt. (13.72-liter)
<b>Emission Controls</b>	Dual close-coupled 3-way catalytic converters, Quad heated oxygen sensors and internal engine features <sup>A</sup>
<b>Estimated EPA Fuel Economy, mpg (City/Hwy)</b>	14/21

<sup>A</sup> Meets LEV II evaporative emission requirements in California, New York, Massachusetts, Maine, and Vermont and Tier I evaporative emissions and Clean Fuel Fleet Certification (CCF-LEV) in all other states. Meets Euro IV in international markets.

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### **TRANSMISSION: W5A580 AUTOMATIC, FIVE-SPEED OVERDRIVE**

Availability	Included with 3.7-liter V-6 gas engine
Description	Adaptive electronic control or Electronic Range Select (ERS) driver-interactive manual control and electronically modulated torque converter clutch
<b>Gear Ratios</b>	
1st	3.59
2nd	2.19
3rd	1.41
4th	1.00
5th	0.83
Reverse	3.16
Final Drive Ratio	3.07:1 with 3.7-liter engine
Overall Top Gear	2.55 with 3.07 axle or 2.95 with 3.55 axle

### **TRANSMISSION: 545RFE, AUTOMATIC MULTI-SPEED**

Availability	Included with 4.7-liter and 5.7-liter engines
Description	Three planetary gear sets, one overrunning clutch, with Electronic Range Select (ERS) driver interactive control, electronically controlled torque converter clutch
<b>Gear Ratios</b>	
1st	3.00
2nd	1.67 – upshift; 1.50 – kick-down
3rd	1.00
4th	0.75
5th	0.67
Reverse	3.00
Final Drive Ratio	3.73 with 4.7-liter or 5.7-liter engine
Overall Top Gear	2.50 with 3.73 axle

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### **TRANSFER CASE: NV140**

Availability	Included with 3.7-liter engine
Type	Single-speed
Operating Mode	Full-time 4 x 4
Low-Range Ratio	None
Center Differential Type	Electronically controlled clutch pack torque transfer
Torque Split, Front/Rear	48/52

### **TRANSFER CASE: NV245**

Availability	Included with 4.7-liter and 5.7-liter engines
Type	Two-speed, electronically shifted
Operating Modes	4 x 4 Low (Lock), Neutral; Full-Time Active 4 x 4
Low Range Ratio	2.72
Center Differential Type	Electronically controlled clutch pack torque transfer
Torque Split, Front/Rear	48/52

### **FRONT AXLES**

Differential Type	Conventional
Availability	Standard on 4 x 4 models with 3.7-liter and 4.7-liter engines
Ring Gear Diameter	7.9 in. (200mm)
Axle Ratios	3.07:1 – 3.7-liter engine 3.73:1 – 4.7-liter engine
Differential Type	Electronic Limited Slip Differentials (ELSD)
Availability	Optional on 4 x 4 models with NV245 Transfer Case, optional with 5.7-liter engine (Quadra-Drive II)
Ring Gear Diameter	Same as standard
Axle Ratios	3.73:1 – 4.7-liter and 5.7-liter engine

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## REAR AXLES

Differential Type	Conventional
Availability	Standard on 3.7-liter engine Standard on 4.7-liter engine
Ring Gear Diameter	8.3 in. (213mm)
Axle Ratios	3.07:1 – 3.7-liter V-6 engine 3.73:1 – 4.7-liter V-8 engine
Differential Type	Vari-Lock Progressive
Availability	Optional on 4 x 2 models
Ring Gear Diameter	Same as standard
Axle Ratios	3.07:1 – 3.7-liter engine 3.73:1 – 4.7-liter engine and 5.7-liter engine
Differential Type	Electronic Limited Slip Differentials (ELSD)
Availability	Standard with 5.7-liter engine Optional with 4.7-liter engine Optional on 4 x 4 models with NV245 Transfer Case (Quadra-Drive II)
Ring Gear Diameter	Same as conventional
Axle Ratios	3.73:1 – 4.7-liter engine and 5.7-liter engine

## ELECTRICAL SYSTEM

Alternator	160-amp (all engines except diesel)
Battery	Group 65 maintenance-free 750CCA

## DIMENSIONS AND CAPACITIES

Wheelbase	109.5 (2781)
Track, Front	62.0 (1575)
Track, Rear	62.0 (1575)
Overall Length	186.6 (4740.5)
Overall Width (width at mirrors)	84.3 (2138.7)

Body Width	73.3 (1861.8)
Overall Height	67.7 (1719.6)
Load Floor Height	32.1 (843.5)
Sill Step Height	19.8 (502.7) 4 x 2, (512.5) 4 x 4
Ground Clearance	
Chassis (Fuel tank)	9.5 (245.6)
Front axle	8.5 (209)
Rear axle	8.0 (203.6)
Approach Angle	34.1°
Ramp Breakover Angle	20.6°
Departure Angle	27.1°
Frontal Area	21.0 sq. ft. (1.95 sq m)
Drag coefficient	0.41
Aero	12.1 (Cd x Cross Sectional Area)
Fuel tank capacity	20.8 gal. (78.7-liter)

## ACCOMMODATIONS

Seating Capacity, Front/Second	2/3
Front Seat	
Head room	39.7 (1008)
Leg room	41.7 (1058)
Shoulder room	59.1 (1502)
Hip room	57.6 (1451)
Seat travel	10.6 (270)
SAE volume	58.02 cu. ft. (1.6 cu. m)

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## Rear Seat

Head room	39.3 (999)
Leg room	35.5 (901)
Shoulder room	58.5 (1584)
Hip room	60.6 (1539)
Knee Clearance	1.44 (36.6)
Couple	33.0 (838.2)
SAE volume	50.84 cu. ft. (1.4 cu. m)

## Cargo Volume

Behind rear seat	34.53 cu. ft. (1.14 cu m)
Behind front-row seats with rear seats folded	67.40 cu. ft. (2.00 cu m)

## BODY

### 4 x 2

Layout	Longitudinal front engine, rear drive
Construction	Steel UniFrame

### 4 x 4

Layout	Longitudinal front engine, transfer case with full-time four-wheel drive
Construction	Steel unibody

## SUSPENSION

Front	Short/long independent (SLA), coil springs, gas-charged, twin-tube coil over shock absorbers, upper and lower control arms ("A" arms), stabilizer bar
Rear	Live axle, link coil-with track bar, gas-charged twin tube shock absorbers, stabilizer bar

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## STEERING

Type	Power rack-and-pinion
Overall ratio	15.8:1 – on center, 13.9:1 at full lock
Turning diameter (curb-to-curb) <sup>A</sup>	37.1 ft. (11.3m)
Steering turns (lock-to-lock)	2.85

## BRAKES

### Front

Size and Type	12.9 x 1.2 (328 x 30) vented disc with 1.89 (48) two-piston pin-slider caliper and ABS
Swept Area	282 sq. in. (1820 sq cm)

### Rear

Size and Type	12.6 x 0.55 (320 x 14) disc with 1.89 (48) single-piston pin-slider caliper and single-channel ABS <sup>B</sup>
Swept Area	257 sq. in. (1658 sq cm)
Power Assist Type	Single-rate, tandem diaphragm vacuum

## WHEELS

Type and Material	Cast Aluminum, Chrome-Clad Aluminum
Size	17 X 7.5 in

<sup>A</sup> Turning diameter is measured at the outside of the tires at curb height. Turning diameters and steering wheel turns, lock-to-lock may differ with optional tires and wheels.

<sup>B</sup> Three-channel ABS standard on 4 x 2. Four-channel ABS standard on 4 x 4.