

Note: Information shown is based on data available at time of publication (September 1, 2009). Specifications are valid for Europe and may vary in other international markets. Vehicle model availability may change per individual markets.

Jeep® Commander SPECIFICATIONS

All dimensions are in millimeters (inches) unless otherwise noted.

GENERAL INFORMATION

Vehicle Type	Four-door sport-utility vehicle
Construction	Steel UniFrame®
Assembly Plant	Jefferson North Assembly Plant, Detroit
Vehicle Segment	Multi-purpose vehicle

ENGINE: 3.7-LITER SOHC V-6

Availability	Standard—Sport
Type and Description	90-degree V-type, liquid-cooled with balance shaft
Displacement	3701 cu. cm (226 cu. in.)
Bore x Stroke	93.0 x 90.8 (3.66 x 3.57)
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 (SAE J1349 JUN1995)	157 kW (210 hp DIN) @ 5200 rpm
Torque (SAE J1349 JUN1995)	319 N•m (235 lb.-ft.) @ 4000 rpm
Max. Engine Speed	6000 rpm (electronically limited)
Fuel Requirement	Unleaded regular, 87 octane
Oil Capacity	4.7 L (5.0 qt.)
Coolant Capacity	13.25 L (14.0 qt.)
Emission Controls	Dual, three-way catalytic converters, quad-heated oxygen sensors and internal engine features
Fuel Consumption	
Urban Cycle	N/A
Ex-urban Cycle	N/A
Combined Cycle	N/A
Assembly Plant	Mack Avenue Engine Complex, Detroit

ENGINE: 5.7-LITER HEMI® V-8

Availability	Standard—Limited; Optional—Sport
Type and Description	90-degree V-type, liquid-cooled
Displacement	5654 cu. cm (345 cu. in.)
Bore x Stroke	99.5 x 90.9 (3.92 x 3.58)
Valve System	Variable-valve Timing (VVT), pushrod-operated overhead valves, 16 valves, eight deactivating and eight conventional hydraulic lifters, all with roller followers
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	10.5:1
Power (est.) (SAE J2723)	259 kW (357 hp DIN) @ 5200 rpm
Torque (est.) (SAE J2723)	520 N•m (389 lb.-ft.) @ 4350 rpm
Max. Engine Speed	5800 rpm (electronically limited)
Fuel Requirement	Unleaded mid-grade, 89 octane recommended; Unleaded regular, 87 octane acceptable
Oil Capacity	6.6 L (7.0 qt.)
Coolant Capacity	13.72 L (14.5 qt.)
Emission Controls	Dual, close-coupled three-way catalytic converters, quad-heated oxygen sensors and internal engine features
Fuel Consumption	
Urban Cycle	N/A
Ex-urban Cycle	N/A
Combined Cycle	N/A
Assembly Plant	Saltillo Engine Plant, Saltillo, Mexico

ENGINE: 3.0-LITER TURBO DIESEL

Availability	Optional
Type and Description	V-type, 6-cylinder, Turbo Diesel
Bore x Stroke	83.0 mm x 92.0 mm
Valve System	DOHC, 24 valves, 2 intake and 2 exhaust per cylinder with end-pivot roller rockers and hydraulic lash adjustment
Fuel Injection	Direct injection, sequential with pilot injection, high pressure common rail with return
Compression Ratio	18.0:1
Max. Power	160 kW (218 hp DIN) @ 4000 rpm
Max. Torque	510 N•m (376 lb.-ft.) @ 1600 – 2400 rpm
Max. Engine Speed	4200 rpm electronically limited
Fuel Requirement	Diesel 15 ppm max sulfur
Oil Capacity	9.5 L with filter (10.0 qt.)
Coolant Capacity	13.25 L (14.0 qt.)
Emission Controls	Two diesel oxidation catalysts at the close-coupled and toeboard positions

Fuel Consumption

Urban Cycle	13.2 w/DPF / 13.1 w/o DPF
Ex-urban Cycle	8.7 w/DPF / 8.6 w/o DPF
Combined Cycle	10.3 w/DPF / 10.2 w/o DPF
Assembly Plant	Berlin Engine, Germany

TRANSMISSION: W5A580 AUTOMATIC, FIVE-SPEED OVERDRIVE

Availability	Included with 3.7 L V-6 engine and 3.0 L Turbo Diesel
Description	Adaptive electronic control or Electronic Range Select (ERS) driver-interactive manual control and electronically modulated torque converter clutch
Gear Ratios:	
1 st	3.59
2 nd	2.19
3 rd	1.41
4 th	1.00
5 th	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

TRANSMISSION: 545RFE, AUTOMATIC MULTI-SPEED

Availability	Included with 5.7 L engine
Description	Three planetary gearsets, one overrunning clutch with ERS driver interactive control, electronically controlled torque converter clutch
Gear Ratios:	
1 st	3.00
2 nd	1.67 upshift; 1.50 kickdown
3 rd	1.00
4 th	0.75
5 th	0.67
Final-drive Ratio	3.73 with 5.7-liter engine
Overall Top-gear	2.50 with 3.73 axle

TRANSFER CASE: NV140

Availability	Standard with 3.7 L engine
Type	Single-speed, electronically shifted
Operating Mode	Full-time 4WD
Low-range Ratio	None
Center Differential Type	Open
Torque Split, Front/Rear	48/52

TRANSFER CASE: NV245

Availability	Included with 5.7 L engine
Type	Two-speed, electronically shifted
Operating Modes	4WD Low (Lock), Neutral; full-time active 4WD
Low-range Ratio	2.72
Center Differential Type	Open with Electronic Limited-slip Differential
Torque Split, Front/Rear	48/52

FRONT AXLES—200 mm

Differential Type	Conventional/corporate
Availability	Standard on 4WD models
Ring Gear Diameter	200 mm (7.9 in.)
Axle Ratios	3.07:1 3.7-liter engine or 3.73:1 5.7-liter engine
Differential Type	Electronic Limited-Slip Differential
Availability	Optional on 5.7 L 4WD models
Ring Gear Diameter	Same as standard
Axle Ratios	Same as standard

REAR AXLES—213 mm

Differential Type	Conventional/corporate
Availability	Standard—all powertrains
Ring Gear Diameter	213 mm (8.3 in.)
Axle Ratios	3.07:1 3.7-liter engine; 3.73:1 5.7-liter V-8 engine
Differential Type	Electronic Limited-Slip Differential
Availability	Standard on Sport and Limited models (except 2WD 5.7 L)
Ring Gear Diameter	Same as conventional
Axle Ratios	Same as conventional

REAR AXLES—DANA 44

Differential Type	Dana
Availability	Sport 2WD/Limited 2WD—5.7 L
Ring Gear Diameter	226 mm (8.3 in.)
Axle Ratios	3.73:1—5.7-liter V-8 engines

ELECTRICAL SYSTEM

Alternator	160-amp (all engines)
Battery	Group 65 Maintenance-free 730 CCA

DIMENSIONS AND CAPACITIES

Wheelbase	2781 (109.5)
Track, Front	1589 (62.6)
Track, Rear	1589 (62.6)
Overall Length	4787 (188.5)
Body Width	1900 (74.8)
Overall Height at Roof Rack Side Rail	1831.8 (72.1)
Load-floor Height	920.3 (36.2)
Sill-step Height	504.9 (19.9) (4WD)
Ground Clearance (with 245/65R17 tire and 3.7-liter engine)	
Chassis (fuel tank)	251.5 (9.9)
Front Axle	243.3 (9.5)
Rear Axle	219.0 (8.6)
Approach Angle	34.8°
Ramp Breakover Angle	21.3°
Departure Angle	27.2°
Aero Cd ^(a)	13.26
Fuel-tank Capacity	79.9 L (21.1)

(a) Specifically ground to H-point measurement.

ACCOMMODATIONS

Seating Capacity, Front/Second/Third	2/3/2
Front Seat	
Head Room	1069.3 (42.1)
Leg Room	1058.4 (41.7)
Shoulder Room	1498.6 (59.0)
Hip Room	1412 (55.6)
Seat Travel, Driver/Passenger	270 (10.6) / 250 (9.84)
SAE Volume	1.93 cu. m (68.5 cu. ft.)
H-point ^(a)	746.9 (29.4)
Second-row Seat	
Head Room	1021.6 (40.3)
Leg Room	916 (36.1)
Shoulder Room	1485.9 (58.5)
Hip Room	1371.6 (54.0)
Couple	838.4 (33.0)
SAE Volume	1.03 cu. m (36.3 cu. ft.)
H-point ^(a)	871.5 (34.3)

Third-row Seat

Head Room	907.6 (35.7)
Leg Room	734 (28.9)
Shoulder Room	1280.8 (50.4)
Hip Room (at H-point)	1362.1 (53.63)
Couple	838.2 (33.0)
SAE Volume	0.21 cu. m (7.5 cu. ft.)
H-point ^(a)	1001.9 (39.4)

Cargo Volume

Behind front-row seats with second- and third-row seats folded	1.94 cu. m (68.5 cu. ft.)
Behind second-row seats with third-row seats folded	1.03 cu. m (36.3 cu. ft.)
Behind third-row seat	.17 cu. m (7.5 cu. ft.)

(a) Specifically ground to H-point measurement.

BODY

2WD

Layout	Longitudinal front engine, rear drive
Construction	Steel UniFrame

4WD

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

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