

2006 Jeep® Commander

Technical Specifications

The information shown is based on data available at the time of publication (January 2006). Specifications are valid for Europe and may vary in other international markets.

Body and Chassis

Seven-seater, four-door sport-utility vehicle with all-steel unitized body/chassis unit. Choice of three (two petrol and one diesel) longitudinally mounted front engines driving the rear or all four wheels on demand, via a five-speed automatic transmission through an electronically controlled transfer case and available electronically controlled limited slip differential front and rear axles.

Engines

3.0L CRD V-6 Turbo Diesel

Type	Diesel, common-rail direct injection, six-cylinder, V-type, 72 degrees
Capacity	3 litres (2987 cc / 182.3 cu. in.)
Maximum power	160 kW (218 hp DIN) @ 4000 rpm 155 kW (211 hp DIN) @ 4000 rpm (for Belgium and other EU upon request)
Power per litre	53.33 kW/L
Maximum torque	510 N•m (376 lb.-ft.) @ 1600-2000 rpm
Compression ratio	18:1
Bore and stroke	83 x 92 mm (3.27 x 3.62 in.)
Camshafts	Twin overhead camshafts per bank
Valve system	24 valves, 2 intake and 2 exhaust per cylinder
Fuel system	Direct injection, high-pressure common-rail
Materials	Aluminium block with aluminium cylinder heads
Maximum engine speed	4200 rpm, electronically limited
Fuel recommendation	Diesel 50 ppm max sulphur
Emission controls	Two diesel oxidation catalysts at the close-coupled and toeboard positions with Diesel Particulate Filter as standard
Emission class	Euro 4

4.7L Power Tech V-8

Type	Petrol, eight-cylinder, V-type, 90 degree
Capacity	4.7 litres (4701 cc / 287 cu. in.)
Maximum power	170 kW (231 hp DIN) @ 4500 rpm
Power per litre	36.17 kW/L

Maximum torque	410 N • m (302 lb.-ft.) @ 3600 rpm
Compression ratio	9:1
Bore and stroke	93.0 x 86.7 mm (3.66 x 3.41 in.)
Camshafts	Chain drive, single overhead cam per bank (SOHC)
Valve system	valves per cylinder (16 valves), 1 intake and 1 exhaust per cylinder, hydraulic valve lifters
Fuel system	Sequential multi-port electronic fuel injection
Materials	Cast iron block with twin aluminium cylinder heads
Maximum engine speed	6000 rpm, electronically limited to 5300 rpm
Fuel recommendation	91 RON unleaded petrol
Emission controls	Dual three-way catalytic converters, with heated oxygen sensors
Emission class	Euro 4

5.7L HEMI® V-8

Type	Petrol, eight-cylinder, V-type, 90 degree – with cylinder deactivation through the Multi-Displacement System (MDS), providing a world-class combination of performance and fuel economy
Capacity	5.7 litres (5654 cc / 348 cu. in.)
Maximum power	240 kW (326 hp DIN) @ 5000 rpm
Power per litre	42.44 kW/L
Maximum torque	500 N • m (368.71 lb.-ft.) @ 4000 rpm
Compression ratio	9.5:1
Bore and stroke	99.5 x 90.9 mm (3.92 x 3.58 in.)
Camshafts	Single overhead cam per bank
Valve system	Overhead valve, pushrod system, 16 valve, 1 intake and 1 exhaust per cylinder; hydraulic lifters with roller followers
Fuel system	Sequential multi-port electronic fuel injection, returnless fuel delivery
Materials	Deep Skirt cast iron block, aluminium hemi-spherical combustion chamber cylinder heads
Maximum engine speed	5800 rpm
Fuel recommendation	95 RON unleaded petrol
Emission controls	Dual three-way catalytic converters, with heated oxygen sensors
Emission class	Euro 4

Transmissions

5-45RFE – Multi-speed Automatic

Availability	Standard fit with 4.7L and 5.7L petrol
Description	Multi-speed automatic transmission with 5 forward speeds, alternate second gear, Electronic Range

Select (ERS), tow/haul feature, brake-park interlock and electronically modulated converter clutch

Gear ratios	1st	3.00
	2nd	1.67
	3rd	1.00
	4th	0.75
	5th	0.67
	Reverse	3.00
	Final drive ratio	2.50

W5A580 – Five-speed Automatic

Availability Standard fit with 3.0L CRD
Description Five speed automatic with electronic range select, tow/haul feature, adaptive electronic control, brake park interlock and electronically modulated converter clutch

Gear ratios	1st	3.59
	2nd	2.19
	3rd	1.41
	4th	1.00
	5th	0.83
	Reverse	3.16
	Final drive ratio	2.95

Driveline

Transfer Case

(all configurations) NV 245

Axles

Front:	DAP 200 mm	
Rear:	DAP 213 mm	
Axle ratios	4.7L	3.73:1
	5.7L HEMI	3.73:1
	3.0L CRD	3.55:1

Four-wheel Drive Systems

Quadra-Trac II®

Type Active full-time system with two speeds and neutral, electronically controlled clutch pack coupling in centre of differential and open front and rear differentials – standard

Operating ranges	on the 4.7L base vehicle 4WD on demand, 4WD low
Low range ratio	2.72:1
Torque split	Variable up to 100% to the front and rear with a 48/52 default split.

Quadra-Drive II®

Type	Active full-time system with two speeds and neutral, electronically controlled clutch pack coupling in centre of differential with industry-exclusive front and rear Electronic Limited Slip Differentials (ELSD)
Operating ranges	4WD on demand, 4WD low
Low range ratio	2.72:1
Torque split	If three wheels are slipping, 100% of available torque is transferred to the tyre with the most traction within a split second

Suspension and Damping

Front	Short/long arm (SLA) independent configuration with gas charged twin-tube coil-over shock absorbers and stabiliser bar, 22.5 cm (8.86-in.) wheel travel
Rear	Live solid axle and five link suspension (twin upper and lower trailing tubular linking arms plus lateral track bar, coil springs, twin monotube shock absorbers, coil springs and stabiliser bars), 22.4 cm (8.82-in.) wheel travel

Steering

Type	Power rack-and-pinion
Overall ratio	17:4:1 on center, 15:45:1 at full lock
Gearing	3.14 turns lock-to-lock
Turning circle	11.8 m (38.7 ft.) curb-to-curb

Brakes

Front

Discs	328 mm x 30 mm (12.9 in. x 1.18 in.) ventilated
Callipers	48 mm (1.89 in.) diameter dual-piston sliding callipers
Swept area	1757 sq. cm (272 sq. in.)

Rear

Discs	320 mm x 14 mm (12.6 in. x 0.551 in.) solid
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Callipers	48 mm (1.89 in.) diameter single-piston sliding callipers
Swept area	1650 sq. cm (256 sq. in.)

Systems

Power assistance	yes
ABS	yes
Traction control	yes
EBD	yes

Wheels and Tyres

Standard fit equipment listed.

Base

Wheel type and material	Standard: “Wrench”, Cast Aluminium alloy 17”, 5-spoke, machined face, painted sparkle silver pockets; Optional: “Hulk”, Cast Aluminium alloy 17”, 5-spoke, painted mineral gray face and pockets, bright machined lip Goodyear
Tyres, front and rear	P245/65R17 Wrangler HP BSW A/S
Spare tyre configuration	full-size spare

Limited

Wheel type and material	Standard: “Wrench”, Cast Aluminium alloy 17”, 5-spoke, machined face, painted sparkle silver pockets; Goodyear
Tyres, front and rear	P245/65R17 Wrangler HP BSW A/S
Spare tyre configuration	full-size spare

Dimensions

Dimensions are in millimetres (inches) unless otherwise noted.

Exterior

Overall length (w/spare tyre)	4787 (188.5)
Overall width	2260.9 (89.0) with mirrors 1899 (74.76) without mirrors
Overall height (to middle of roof)	1826 (71.9)
Wheelbase	2780 (109.4)

Overhang, front	867 (34.1)
Overhang, rear	1139 (44.8)
Ground clearance, front axle	213.6 (8.40)
Ground clearance, rear axle	217.9 (8.22)
Track, front	1590 (62.6)
Track, rear	1590 (62.6)
Approach angle	34 degrees
Departure angle min.	27 degrees
Breakover angle min.	20 degrees

Interior

Front

Head room	1070 (42.1)
Leg room	1058 (41.7)
Shoulder room	1498 (59)
Hip room	1412 (55.6)
Seat travel – driver	267 (10.5)
Seat travel – passenger	250 (9.8)

Second Row

Head room	1023 (40.2)
Leg room	916 (36.1)
Shoulder room	1486 (58.5)
Hip room	1373 (54)

Third Row

Head room	908 (35.7)
Leg room	734 (28.9)
Shoulder room	1286 (50.6)
Hip room	1459 (57.4)

Cargo

All Seats in Place	235.7L (6.0 cu. ft.)
3rd Row Folded	973.5L (34.38 cu. ft.)
2nd and 3rd Row Folded	1775.6L (62.7 cu. ft.)
Cargo volume in SAE measurement standard	

Weights (kg/lbs.)

	3.0 CRD	4.7L	5.7L
Curb weight	2315 - 2410 kg.	2305 - 2410 kg.	2355 - 2395 kg.
Gross vehicle weight	2900 kg.	2900 kg.	2900 kg.

Capacities

	3.0 CRD	4.7L	5.7L
Max. towing (Inc. tongue load)	3500 kg	3500 kg	3500 kg
Max. load – front axle	1338 kg. for all		
Max. load – rear axle	1656 kg. for all		
Max. tongue load	Up to 10% of trailer weight for all powertrains		
Max. roof load	69 kg. for all powertrains		
Fuel tank	77.7 L for all models		
Oil (with new filter)	9.5L (10 qts.)	5.7L (6 qts.)	6.6L (7 qts.)
Coolant	14.6L (15.4 qts.)	13.6L (14.4 qts.)	16.8L (17.8 qts.)

Fuel Consumption (L/100 km, EU standard)

	3.0 CRD	4.7L	5.7L
Combined cycle	10.8	14.8	15.5
Urban cycle	13.5	19.2	21.0
Ex-urban cycle	9.2	12.2	12.3
CO2 (g/km)	284	352	368

Performance

	3.0 CRD	4.7L	5.7L
Acceleration (0-100 km/h) (kph)	9.0 sec.	9.5 sec.	7.4 sec.
	191	189	208

	3.0 CRD	4.7L	5.7L
Oil change intervals	20,000 km	12,000 km	12,000 (Schedule A)
Oil change intervals	10,000 km	5,000 km	5,000 (Schedule B)
Service intervals	20,000 km	12,000 km	12,000 (Schedule A)
Service intervals	10,000 km	5,000 km	5,000 (Schedule B)

Warranty duration Western, Central & Eastern Europe (except UK & Switzerland): 2-year/unlimited kilometers. UK: 2-year/unlimited mile and a 3-year/60,000 mile basic warranty. Switzerland: 3-year/100,000 km basic warranty.

DaimlerChrysler Communications, Stuttgart (Germany), Auburn Hills (USA)