

2004 JEEP® WRANGLER UNLIMITED

SPECIFICATIONS

Preliminary Specifications

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

Engine: 4.0-Liter, OHV, 12-Valve SMPI Power Tech I-6

Type and Description _____ In-line, liquid-cooled
Displacement _____ 242 cu. in. (3,956 cu. cm)
Bore x Stroke _____ 3.88 x 3.41 (98.4 x 86.7)
Valve System _____ OHV, 12 valves, flat followers, hydraulic lifters
Fuel Injection _____ Sequential, multi-port, electronic
Construction _____ Cast-iron block and head
Compression Ratio _____ 8.8:1
Power (SAE net) _____ 190 bhp (142 kW) @ 4,600 rpm (47.5 bhp/L)
Torque (SAE net) _____ 235 lb.-ft. (319 N•m) @ 3,200 rpm
Max. Engine Speed _____ 5,300 rpm
Fuel Requirement _____ Unleaded regular, 87 octane (R+M)/2
Oil Capacity _____ 6.0 qt. (5.7L)
Coolant Capacity _____ 10.5 qt. (9.9L)
Emission Controls _____ Three-way catalytic converters, heated
oxygen sensors, internal engine features
Max. Gross Trailer Weight _____ 3,500 lbs.
Estimated EPA Fuel
Economy mpg (City/Hwy) _____ 14/18 – automatic

Transmission: 42RLE – Automatic, Four-Speed Overdrive

Description _____ Electronic governor, electronically
controlled converter clutch

Gear Ratios

1st _____ 2.84
2nd _____ 1.57
3rd _____ 1
4th _____ 0.69
Axle Ratio _____ 3.73

Overall Top Gear _____ 2.57

Transfer Case: NV231 Command-TRAC®

Type _____ Part-time

Operating Modes _____ 2WD; 4WD High, part-time; Neutral; 4WD Low, part-time

Low Range Ratio _____ 2.72:1

Center Differential Type _____ None

Dimensions and Capacities

Wheelbase _____ 103.4 (2,626)

Track, Front _____ 58.5 (1,473)

Track, Rear _____ 58.5 (1,473)

Overall Length

To spare tire _____ 155.4 (3,947)

To bumper _____ 167 (4,242)

Overall Width _____ 66.7 (1,693)/76.3 (1,938)

Overall Height

Hard top _____ 69.4 (1,764)

Soft top _____ 70.9 (1,802)

Top down _____ 68.4 (1,737)

Ground Clearance

Front axle _____ 9.3 (237)

Rear axle _____ 8.3 (212)

Running _____ 9.2 (235)

Approach Angle _____ 43.1

Ramp Breakover Angle _____ 21.4

Departure Angle _____ 27.7

Curb Weight _____ 3,721 lbs. (1,689 kg)

Maximum Payload

(includes occupants and cargo) _____ 800 lbs. (363 kg)

Weight Distribution, F/R _____ 50/50

Frontal Area _____ 27.8 sq. ft. (2.58 sq. m)

Hard top _____ 0.55

Soft top _____ 0.58

Drag Coefficient _____ 0.55 hard top, 0.58 soft top

Fuel Tank Capacity _____ 19 gal. (72L)
Total Interior Volume _____ 94.1 cu. ft. (2.664 cu. m)
Front Interior Volume _____ 50.6 cu. ft. (1.432 cu. m)
Rear Interior Volume _____ 43.5 cu. ft. (1.232 cu. m)
Cargo Volume _____ 28.5 cu. ft. (0.807 cu. m)
Enclosed Cargo Volume _____
Index – maximum behind front seat _____ 63.3 cu. ft. (1.792 cu. m)
Enclosed Cargo Volume _____
Index – maximum behind second seat _____ 28.2 cu. ft. (0.799 cu. m)

Accommodations

Seating Capacity – F/R _____ 2/2 std.

Front

Head room _____ 40.9 (1,038) hard top; 41.9 (1,064) soft top
Leg room _____ 41.1 (1,044)
Shoulder room _____ 50.8 (1,289)
Hip room _____ 51.8 (1,292)
Seat travel _____ 8.27 (210)
Recliner range _____ 44.5°

Rear

Head room _____ 41.1 (1,044) hard top; 40.6 (1,031) soft top
Leg room _____ 36.7 (890)
Shoulder room _____ 57.3 (1,455)
Hip room _____ 43.5 (1,105)

Body and Chassis

Layout _____ Longitudinal front engine, four-wheel drive

Construction _____ Ladder-type frame, open steel body

Suspension

Front _____ Live axle, leading arms, track bar, coil springs,
stabilizer bar, low-pressure gas-charged shock absorbers

Rear _____ Live axle, trailing arms, track bar, coil springs,
stabilizer bar, low-pressure gas-charged shock absorbers

Steering

Type _____ Power recirculating ball with damper
Overall Ratio _____ 16.8:1 overall (gear – 15.2:1)
Turning Diameter (curb-to-curb) _____ 36 ft. (11.2 m)
Steering Turns (lock-to-lock) _____ 3.4

Tires

Standard – Unlimited

Size and type _____ 30 x 9.5R15LT
Mfr. and model _____ Goodyear Wrangler GSA
Revs per mile _____ 719

Wheels

Standard – Unlimited

Type and material _____ Cast-aluminum
Size _____ 15 x 8

Brakes

Front

Size and type _____ 11.0 x 0.94 (280 x 24) vented disc
with single-piston sliding caliper
Swept area _____ 198.5 sq. in. (1,281 sq. cm)

Rear

Size and type _____ 9.0 x 2.5 (229 x 64) drum
Swept area _____ 141.4 sq. in. (912 sq. cm)
Power Assist Type _____ 8.07 (205) tandem diaphragm vacuum