

2006

JEEP® WRANGLER

WRANGLER SPECIFICATIONS

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

GENERAL INFORMATION

Body Style _____ Two-door sport-utility vehicle
 Assembly Plant _____ Toledo, Ohio
 EPA Vehicle Class _____ Multipurpose vehicle

WRANGLER 4WD JOB RATINGS

Engine	Transmission	Axle Ratio	GVWR (lbs.)	GCWR (lbs.)	GAWR Front/Rear (lbs.)	Base Curb Weight, est.(a) (lbs.)	Max Tongue Weight (lbs.)	Max. Trailer Weight (lbs.)
2.4L	Six-sp'd. manual	3.73	4450	6250	2200/2650	3200	100	1000
4.0L	Six-sp'd. manual	3.07	4450	6250	2200/2650	3438	200	2000
		3.73	4450	6250	2200/2650	3539	200	2000
		4.11	4600	6350	2200/2700	3832	200	2000
	Four-sp'd. automatic	3.73(b)	4450	5350	2200/2650	3337	100	1000
		3.73 (c)	4450	6250	2200/2650	3463	200	2000
		4.11	4600	6350	2200/2700	3857	200	2000

ENGINE: 2.4-LITER, DOHC, 16-VALVE POWER TECH I-4

Availability _____ Std.—SE
 Type and Description _____ Four-cylinder, in-line, liquid-cooled
 Displacement _____ 148.2 cu. in. (2429 cu. cm)
 Bore x Stroke _____ 3.44 x 3.98 (88 x 101)
 Valve System _____ Belt-drive, DOHC, 16 valves, stamped-steel followers, hydraulic lash adjustment
 Fuel Injection _____ Sequential, multi-port electronic
 Construction _____ Cast-iron block, cast-iron bedplate, aluminum head, balance shafts
 Compression Ratio _____ 9.5:1
 Power (SAE net) _____ 147 hp (110 kW) @ 5,200 rpm
 Torque (SAE net) _____ 165 lb.-ft. (224 N•m) @ 4,000 rpm
 Max. Engine Speed _____ 6,240 rpm, electronically limited
 Fuel Requirement _____ Regular unleaded, 87 octane (R+M)/2
 Oil Capacity _____ 5 qt. (5.3L)
 Coolant Capacity _____ 10.1 qt. (9.6L)
 Emission Controls _____ Catalytic converters, oxygen sensors, on-board vapor recovery system, leak detection pump system(d)
 Max. Gross Trailer Weight (lbs.) _____ 1,000 lbs. (454 kg)
 Estimated EPA Fuel Economy mpg (City/Hwy) _____ 18/20—manual

(a) Curb weight includes standard equipment and full quantities of fuel, lubricant and coolant.

(b) SE model.

(c) X model.

(d) Meets LEV II emission requirements in California, New York, Massachusetts, Maine and Vermont Meets Tier 2, Bin 5 emission requirements in other states.

continued

WRANGLER SPECIFICATIONS

ENGINE: 4.0-LITER, OHV, 12-VALVE SMPI POWER TECH I-6

Availability _____ Std.—X, Sport and Rubicon; Opt. on SE
 Type and Description _____ In-line, liquid-cooled
 Displacement _____ 242 cu. in. (3956 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(a)
 Max. Gross Trailer Weight (lbs.) _____ 2,000 lbs. (907 kg)
 Estimated EPA Fuel Economy mpg (City/Hwy) _____ 16/20—manual, 16/20—automatic

TRANSMISSION: NSG 370—MANUAL, SIX-SPEED

Availability _____ Std.—All models
 Description _____ Six-speed, overdrive, synchronized in all forward gears and reverse,
 single-rail shift system with top-mounted shift lever
 Clutch _____ Hydraulic actuation, dual mass flywheel system
 Gear Ratios
 1st _____ 4.46
 2nd _____ 2.61
 3rd _____ 1.72
 4th _____ 1.25
 5th _____ 1.00
 6th _____ 0.84
 Reverse _____ 4.06
 Axle Ratio _____ 3.73—2.4L and 4.0L; 4.11—Rubicon
 Overall Top Gear _____ 2.98—2.4L and 4.0L; 3.29—Rubicon

(a) Meets Federal Tier 2, Bin 9A emission requirements in all 50 states.

continued

WRANGLER SPECIFICATIONS

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

continued

WRANGLER UNLIMITED SPECIFICATIONS

TRANSMISSION: 42RLE—AUTOMATIC, FOUR-SPEED OVERDRIVE

Availability _____ Opt.—All models
 Description _____ Electronic governor, electronically controlled converter clutch
 Gear Ratios
 1st _____ 2.84
 2nd _____ 1.57
 3rd _____ 1
 4th _____ 0.69
 Reverse _____ 2.21
 Axle Ratio _____ 3.73—2.4L and 4.0L; 3.06—Std. X and Sport; 4.11—Rubicon
 Overall Top Gear _____ 2.57—2.4L and 4.0L; 2.11—Std. X and Sport; 2.84—Rubicon

TRANSFER CASE: NV231 COMMAND-TRAC

Type _____ Part-time
 Operating Modes _____ 2WD High; 4WD High; Neutral; 4WD Low
 Low Range Ratio _____ 2.72:1
 Center Differential Type _____ None

TRANSFER CASE: NV241 ROCK-TRAC

Type _____ Part-time, heavy-duty
 Operating Modes _____ 2WD High; 4WD High; Neutral; 4WD Low
 Low Range Ratio _____ 4.0:1
 Center Differential Type _____ None
 Electrical System
 Alternator _____ 136-amp with 2.4L engine; 117-amp with 4.0L engine
 Battery _____ Group 34, 600 CCA

DIMENSIONS AND CAPACITIES(a)

Wheelbase _____ 93.4 (2373)
 Track, Front
 15 x 7 wheel _____ 57.8
 15 x 8 wheel _____ 58.5
 16 x 8 wheel _____ 59.5
 Track, Rear
 15 x 7 wheel _____ 58.3
 15 x 8 wheel _____ 58.5
 16 x 8 wheel _____ 57.5
 Overall Length
 To spare tire _____ 154.9 (3947)
 To bumper _____ 150.2 (3813)
 Overall Width _____ 68.3 (1693)

(a) All dimensions measured with two passengers.

continued

WRANGLER UNLIMITED SPECIFICATIONS

DIMENSIONS AND CAPACITIES (CONTINUED)

Overall Height

Hard top	69.8 (1764)
Soft top	71.2 (1802)
Top down	68.4 (1737)

Ground Clearance

Front axle	8.7 (226) min., 9.2 (228) max.
Rear axle	8.6 (208) min., 9.1 (217) max.
Running	9.0 (215) min., 10.0 (259) max.

Approach Angle 42.2

Ramp Breakover Angle 226

Departure Angle 31.5

Curb Weight 3,200 lbs. (1467 kg)—SE,
3,438 lbs. (1545 kg)—X,
3,539 lbs. (1565 kg)—Sport,
3,832 lbs. (1686 kg)—Rubicon

Maximum Payload (includes occupants and cargo) 800 lbs. (363 kg)

Weight Distribution, F/R 48/51—SE
50/50—X, Sport and Rubicon

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)

Cargo Volume

Rear seat up, hard top 11.6 cu. ft. (252L)

Rear seat up, soft top 11.9 cu. ft. (258L)

Rear seat tumbled, hard top 24.2 cu. ft. (1175L)

Rear seat tumbled, soft top 25.4 cu. ft. (1209L)

Rear seat removed, hard top 45.8 cu. ft. (1303L)

Rear seat removed, soft top 47.1 cu. ft. (1337L)

continued

WRANGLER UNLIMITED SPECIFICATIONS

ACCOMMODATIONS(a)

Seating Capacity—F/R _____ 2/2

Front

Head room _____ 41.3 (1038) hard top; 42.5 (1064) soft top

Leg room _____ 40.9 (1044)

Shoulder room _____ 50.8 (1289)

Hip room _____ 51.8 (1292)

Seat travel _____ 8.27 (210)

Recliner range _____ 44.5°

SAE volume _____ 50.0 cu. ft. (1.4 cu. m) hard top, 51.4 cu. ft. (1.5 cu. m) soft top

Rear

Head room _____ 39.5 (1004) hard top; 39.7 (1031) soft top

Leg room _____ 35.3 (890)

Shoulder room _____ 57.3 (1455)

Hip room _____ 42.7 (1105)

SAE volume(b) _____ 42.4 cu. ft. (1.2 cu. m) hard top and soft top

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—std.;

Monotube high-pressure gas-charged shock absorbers—std. Rubicon; opt.

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

Monotube high-pressure gas-charged shock absorbers—std. Rubicon; opt.

STEERING

Type _____ Power recirculating ball with damper

Overall Ratio _____ 16.8:1 overall (gear—15.2:1)

Turning Diameter (curb-to-curb) _____ 36.7 ft. (11.2 m)—30 x 9.5 tire

Steering Turns (lock-to-lock) _____ 3.4

(a) All dimensions measured at curb weight.

(b) Without footwell.

continued

WRANGLER UNLIMITED SPECIFICATIONS

TIRES(a)

Standard—SE and X

Size and type _____ P215/75R15 on/off road
 Mfr. and model _____ Goodyear Wrangler RT/S
 Revs per mile _____ 755 (469)

Optional—Sport

Size and type _____ 30 x 9.5 x R15 LT on/off road
 Mfr. and model _____ Goodyear Wrangler GS-A
 Revs per mile _____ 719 (446)

Standard—Sport; Optional—X

Size and type _____ P225/75R15 on/off road
 Mfr. and model _____ Goodyear Wrangler GS-A
 Revs per mile _____ 733 (455)

Standard—Rubicon

Size and type _____ 31 x 9.5 LT245/75R16 on/off road
 Mfr. and model _____ Goodyear Wrangler MT/R
 Revs per mile _____ 677 (420)

WHEELS(a)

Standard—SE, X and Sport

Type and material _____ Full-face steel
 Size _____ 15 x 7

Optional—SE, X and Sport; (SE, Sport not available with 15x7 Cast Alum Ecco wheels only X)

Type and material _____ Cast-aluminum
 Size _____ 15 x 7

Optional—Sport

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

Standard—Rubicon

Type and material _____ Cast-aluminum
 Size _____ 16 x 8

BRAKES

Standard—SE, X and Sport

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. (1281 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

(a) See also Wheels under Feature Availability.

continued

WRANGLER UNLIMITED SPECIFICATIONS

Standard—Rubicon, Optional Sport

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. (1281 sq. cm)

Rear

Size and type _____ 11.2 x 0.47 (285 x 12) solid disc with single-piston sliding caliper

Swept area _____ 96.8 sq. in. (625 sq. cm)

Power Assist Type _____ 8.07 (205) tandem diaphragm vacuum

Optional—Sport

Front

Size and type _____ 11.0 x 0.94 (280 x 24) vented disc with single-piston sliding caliper with ABS

Swept area _____ 198.5 sq. in. (1281 sq. cm)

Rear

Size and type _____ 9.0 x 2.5 (229 x 64) drum with ABS

Swept area _____ 141.4 sq. in. (912 sq. cm)

Power Assist Type _____ 8.07 (205) tandem diaphragm vacuum

ENGINE: 4.0-LITER, OHV, 12-VALVE SMPI POWER TECH I-6

Type and Description _____ In-line, liquid-cooled

Displacement _____ 242 cu. in. (3956 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) _____ 16/20—automatic, 16/20—manual

continued

WRANGLER UNLIMITED SPECIFICATIONS

TRANSMISSION: NSG 370 — MANUAL, SIX-SPEED

Availability	Std.—All models
Description	Six-speed, overdrive, synchronized in all forward gears and reverse, single-rail shift system with top-mounted shift lever
Clutch	Hydraulic actuation, dual mass flywheel system
Gear Ratios	
1st	4.46
2nd	2.61
3rd	1.72
4th	1.25
5th	1.00
6th	0.84
Reverse	4.06
Axle Ratio	3.73–4.0L; 4.11–Rubicon
Overall Top Gear	2.98–4.0L; 3.29–Rubicon

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 (Rubicon = 4.10)
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 (2626)
Track, Front	58.5 (1473)
Track, Rear	58.5 (1473)
Overall Length	
To spare tire	155.4 (3947)
To bumper	167 (4242)
Overall Width	66.7 (1693)/76.3 (1938)
Overall Height	
Hard top	69.4 (1764)

continued

WRANGLER UNLIMITED SPECIFICATIONS

DIMENSIONS AND CAPACITIES (CONTINUED)

Soft top	70.9 (1802)
Top down	68.4 (1737)
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. (1689 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 (1038) hard top; 41.9 (1064) soft top
Leg room	41.1 (1044)
Shoulder room	50.8 (1289)
Hip room	51.8 (1292)
Seat travel	8.27 (210)
Recliner range	44.5°
Rear	
Head room	41.1 (1044) hard top; 40.6 (1031) soft top
Leg room	36.7 (890)
Shoulder room	57.3 (1455)
Hip room	43.5 (1105)

continued

WRANGLER UNLIMITED SPECIFICATIONS

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

Unlimited Rubicon

Size and type _____ 31 x 9.5 LT245/75R16 on/off road
 Mfr. and model _____ Goodyear Wrangler MT/R
 Revs per mile _____ 677 (420)

WHEELS

Standard–Unlimited

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

Unlimited Rubicon

Type and material _____ Cast-aluminum
 Size _____ 16 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