

2000 Discovery Series II Specifications

Body/Chassis Construction

- 14-gauge, boxed-steel ladder frame with six crossmembers.
- Welded steel monocoque underbody mounted to frame at 14 rubber-insulated points.
- Outer body panels are double-sided galvanized steel or aluminum alloy.

Engine

Type	90-degree overhead valve V8.
Construction	Cast aluminum-alloy cylinder head and block. Dry steel cylinder liners. Cross-bolted main bearings.
Displacement	4.0 liters (241 cu. in./3950 cu. cm)
Bore x stroke	3.70 in. x 2.80 in. (94 mm x 71 mm)
Compression ratio	9.35:1
Horsepower	188 hp @ 4,750 rpm
Torque	250 lb-ft @ 2,600 rpm
Engine management system	Bosch Motronic 5.2.1
Fuel management	Sequential multi-port fuel injection. Mass airflow sensor.
Ignition	Double twin-coil distributorless ignition system. Dual knock sensors.
Alternator	130 amp
Fuel requirements	Premium unleaded.
Fuel tank	24.6 U.S. gallons (93 liters)

Drivetrain

Drive system	Permanent four-wheel drive.
Traction control	Four-wheel Electronic Traction Control (4ETC).
Transfer gearbox	Two-speed transfer gearbox.
Transfer gearbox ratios	High: 1.21:1 Low: 3.27:1
Transmission	ZF HP22 four-speed electronically controlled automatic with locking torque converter. Sport/Normal modes in High Range. Manual/Normal modes in Low Range.
Transmission gear ratios	First - 2.48:1 Second - 1.48:1 Third - 1.00:1 Fourth - 0.73:1 Reverse - 2.09:1
Final-drive ratio	3.54:1
Front/rear axles	Spiral bevel differentials, fully floating hubs.

Suspension

Front	Solid axle located by forged-steel radius arms and Panhard rod. Long-travel single-rate coil springs. 1.2-inch (30 mm) sway bar. 8.5 inches (215 mm) of vertical wheel travel.
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Suspension (cont'd.)

Rear	Solid axle located by forged-steel trailing arms and Watts linkage. Long-travel multi-rate coil springs. 0.75-inch (19 mm) sway bar (1.4-in./29 mm with opt. SLS). 9.0 in. (230 mm) of vertical wheel travel.
Active Cornering Enhancement	Optional Active Cornering Enhancement (ACE) electronic/hydraulic control of front and rear sway bars.
Self-Leveling Suspension	Optional Self-Leveling Suspension (SLS) incorporating rear air springs with automatic and manual modes of operation.

Steering

Type	Power-assisted worm-and-roller.
Overall steering ratio	19.3:1 (14.2:1 on full lock)
Turns lock-to-lock	3.5
Turning circle	39.0 ft. (11.9 m)

Brakes

- Power-assisted four-wheel disc brakes with two-piston floating front calipers. Single-piston floating rear calipers.
- 11.70 in. reverse-ventilated front/11.97 in. solid rear discs (297/304 mm).
- Dual hydraulic circuit with front/rear split.
- Four-channel, all-terrain Anti-lock Braking System (ABS).
- 10.0-in. (254-mm) drum-type parking brake operating on transfer box rear output shaft.
- Hill Descent Control (HDC). Operates in Low Range (all gears) to restrict downhill speeds.

Wheels & Tires

Wheels	16 x 8.0-inch aluminum alloy.
Tire size	Optional 18 x 8.0-inch aluminum alloy. 255/65HR16 mud+snow radials. Optional 255/55HR18 mud+snow radials.
Spare	Full-size spare alloy wheel and tire.

Exterior Dimensions

Overall length	185.2 in. (4705 mm)
Overall width	74.4 in. (1890 mm)
Overall height (less roof rails)	76.4 in. (6 ft. 4.4 in./1940 mm)
Wheelbase	100.0 in. (2540 mm)
Track, front/rear	60.6/61.4 in. (1540/1560 mm)
Loading height	27.0 in. (685 mm)
Rear opening width	47.2 in. (1200 mm)
Rear opening height	41.5 in. (1055 mm)

Interior Dimensions

Seating capacity	Five (seven optional)
Head room, front/rear	40.4/40.1 in. (1026/1019 mm)
Shoulder room, front/rear	58.3/57.3 in. (1481/1455 mm)
Leg room, front/rear	42.3/37.3 in. (1074/947 mm)
Usable luggage capacity	
With rear seat up	40.5 cu. ft. (1.15 m ³)
With rear seat folded	63.3 cu. ft. (1.79 m ³)

Off-Road Capabilities

Ground clearance:	
Under differential	8.2 in. (208 mm)
Under frame	10.0 in. (254 mm)
Angle of approach	31 degrees
Angle of departure	21 degrees (25° with SLS in High Mode)
Ramp breakover angle	27 degrees (excluded angle)