2010 Explorer Technical Specifications

BODY		
Construction	Steel body on fully boxed frame	
Final Assembly Location	Louisville, Ky. and St. Louis, Mo.	
ENGINE		
Type	V-6	V-8
Manufacturing Location	Cologne, Germany	Romeo, Michigan
Configuration	Cast-iron block and aluminum head	Cast-iron block and aluminum heads
Intake manifold	Composite, shell welded with internal runner pack	Composite shell-welded single runner, charge motion control valves
Exhaust manifold	Cast iron	Cast iron
Crankshaft	Cast iron	Cast iron
Redline	6,000 rpm	6,250 rpm
Idle speed in drive	625 rpm	635 rpm
Throttle body	65 mm	75 mm
Valvetrain	SOHC, 2 valves per cylinder	SOHC, 3 valves per cylinder, variable camshaft timing
Valve diameter	Intake: 46.0 mm	Intake: 33.8 mm
	Exhaust: 39.0 mm	Exhaust: 37.5 mm
Pistons	Hypereutectic aluminum	Hypereutectic aluminum
Connecting rods	Forged steel	Cracked powdered metal with floating wristpins
Ignition	Distributorless with coil pack	Coil-on-plug, high-thread-insert spark plugs
Bore x stroke	3.95 x 3.32 in. / 100.4 x 84.4 mm	3.55 x 3.54 in. / 90.2 x 90.0 mm
Displacement	245 cu. in. / 4,009 cc	281 cu. in. / 4,606 cc
Compression ratio	9.7:1	9.8:1
Horsepower	210 @ 5,100 rpm	292 @ 5,700 rpm
Horsepower per liter	52.5	63.5
Torque	254 ft.-lb @ 3,700 rpm	315 ft.-lb. @ 4,000 rpm
Recommended fuel	87 octane	87 octane
Fuel capacity	22.5 gallons	22.5 gallons
Fuel injection	Sequential multi-port fuel injection	Sequential multi-port fuel injection
Emission control	Closed loop with catalyst	Closed loop with catalyst

Emissions (tailpipe/evaporation)	Tier II, Bin 4 / ULEV II	Tier II, Bin 5 / LEV II
Oil capacity	5 quarts with filter	6 quarts with filter
Recommended oil	GF-4, 5W-30	GF-4, 5W-20
Coolant capacity	12.5 quarts	12.7 quarts
DRIVETRAIN		
Layout	Rear- or four-wheel drive	four-wheel drive
TRANSMISSION		
Standard	5-speed automatic overdrive	6-speed automatic overdrive
Gear Ratios		
1st	3.22:1	4.17:1
2nd	2.29:1	2.34:1
3rd	1.55:1	1.52:1
4th	1.00:1	1.14:1
5th	0.71:1	0.87:1
6th	N/A	0.69:1
REV	3.07:1	3.40:1
Final Drive	0.71:1	0.69:1
REAR AXLE RATIO		
Standard	3.55	3.55
Optional	3.73	N/A
SUSPENSION		
Front	Independent short- and long-arm (SLA) architecture with coil-over shocks; 32-mm stabilizer bar	
Rear	Independent trailing blade short- and long-arm (SLA) architecture with coil-over shocks; 25-mm stabilizer bar	
STEERING		
Type	Low-friction rack and pinion with power assist	
Steering column	Tilt	
Ratio	18.9:1	
Turns lock-to-lock	3.6 turns	
Turning circle curb-to-curb	36.8 ft	
FUEL ECONOMY (city/hwy)		
4x2 4.0-liter V-6 5-speed automatic	14/20	
4x4 4.0-liter V-6 5-speed automatic	13/19	

4x4 4.6-liter V-8 6-speed automatic	14/19
BRAKES	
Type	Four wheel power disc brakes with standard 4 sensor, 4 channel anti lock braking system (ABS) and AdvanceTrac® with RSC® (Roll Stability Control™)
Front	12 x 1.2 in. ventilated
Swept area	120.9 sq. in.
Rear	11.8 x .47 in.
Swept area	94.24 sq. in.
Power assist	Vacuum
TIRES AND WHEELS	
	P235/70R16 A/S OWL tires/ 16 x 7.0 inch painted aluminum wheels P245/65R17 A/S OWL tires/ 17 x 7.5 inch painted aluminum wheels P245/65R17 A/T OWL tires/ 17 x 7.5 inch machined aluminum wheels P235/65R18 A/S OWL tires/ 18 x 7.5 inch chrome-clad aluminum wheels P255/50R20 A/S BSW tires/ 20 x 8.0 inch polished aluminum wheels

EXTERIOR (inches unless otherwise noted)	
Wheelbase	113.7
Vehicle length	193.4
Vehicle width (excluding mirrors)	73.7
Vehicle height (with options)	72.8
Track, front/rear	60.9 / 61.8
Minimum running ground clearance	8.3
Approach angle	28.2°
Departure angle	23.8°
Ramp breakover angle	18.4°

INTERIOR (inches unless otherwise noted)	
Seating capacity	5, 6 or 7 passenger
Headroom	
Front row	39.8
Second row	38.7
Third row	37.4
Legroom	
Front row	42.4
Second row	36.9

Third row	34.9	
Shoulder room		
Front row	59.0	
Second row	58.9	
Third row	53.1	
Hip room		
Front row	55.4	
Second row	55.5	
Third row	45.3	
Cargo Volume	**5 Passenger**	**7 Passenger**
Behind first row	85.8 cu. ft.	83.7 cu. ft.
Behind second row	45.1 cu. ft.	43.9 cu. ft.
Behind third row	-	13.6 cu. ft.
Maximum towing capacity (lbs.) (when properly equipped)	**V-6**	**V-8**
4X2, 5-Passenger	5,375	-
4X4, AWD 5-Passenger	5,205	7,115
4X2, 6-Passenger	5,315	-
4X4, AWD 6-Passenger	5,140	7,050
4X2, 7-Passenger	5,290	-
4X4, AWD 7-Passenger	5,115	7,025
Maximum payload		
4X2, 5-Passenger	1,510	-
4X4, AWD 5-Passenger	1,500	1,500
4X2, 6-Passenger	1,450	-
4X4, AWD 6-Passenger	1,440	1,440
4X2, 7-Passenger	1,430	-
4X4, AWD 7-Passenger	1,420	1,420
Base curb weight		
4X2, 5-Passenger	4,455	-
4X4, AWD 5-Passenger	4,628	4,719
4X2, 6-Passenger	4,519	-
4X4, AWD 6-Passenger	4,691	4,782
4X2, 7-Passenger	4,544	-
4X4, AWD 7-Passenger	4,716	4,807
Weight distribution (f/r)	4x2: 53/47	-
	4x4: 54/46	4x4: 54/46
Power-to-weight ratio (lbs/hp)	4x2: 0.0473	-
	4x4: 0.0455	4x4: 0.0620

Specifications subject to change.