

2012 Audi Q7 TDI

Technical specifications



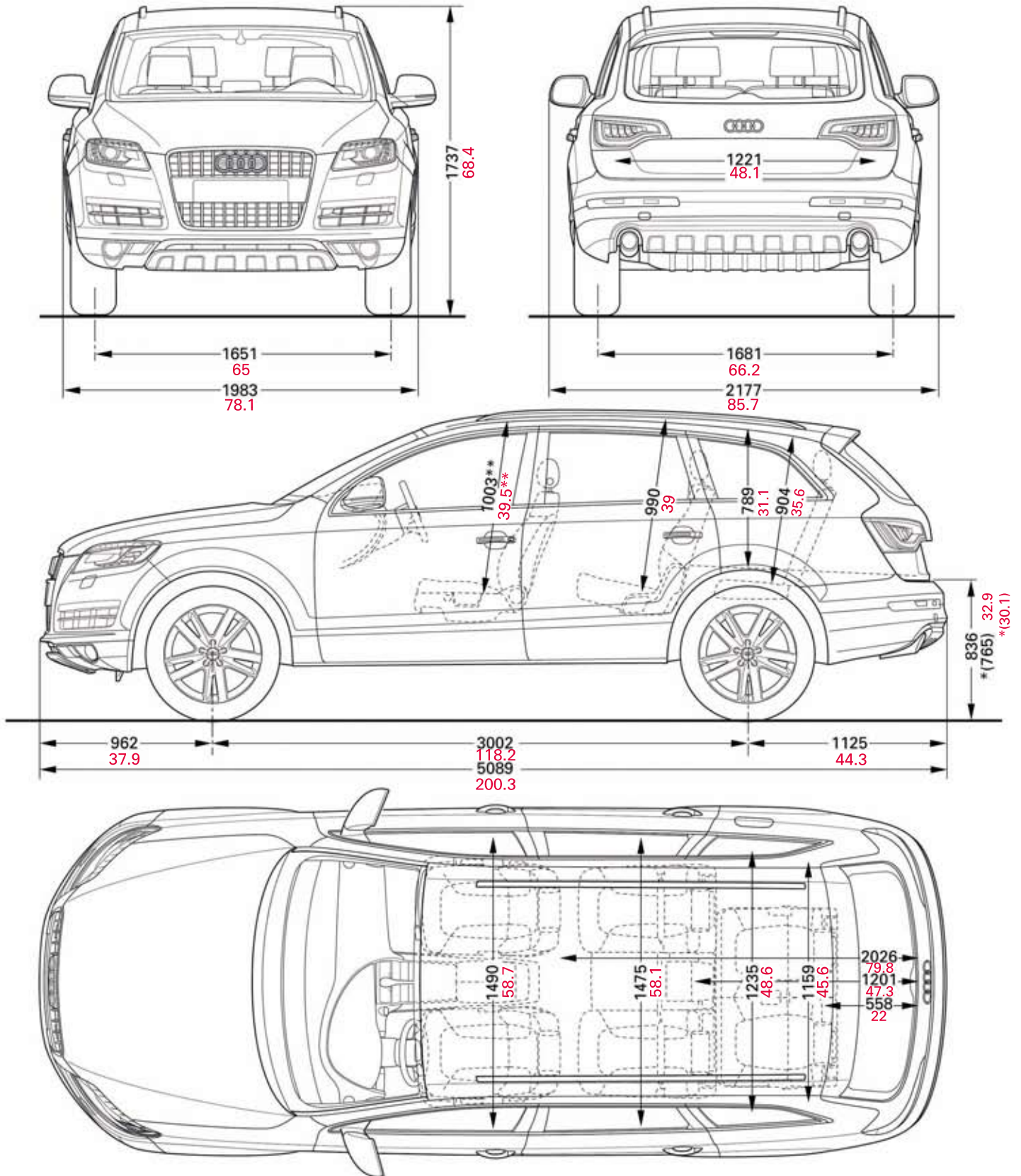
Technical specifications		2012 Audi Q7 TDI	
ENGINE:			
Type	Common-rail injection, 24 valve, V6 TDI® diesel, 90 degree, continuous camshaft adjustment, DOHC		
Arrangement	Front mounted, longitudinal		
Bore	3.27 in	83.0 mm	
Stroke	3.60 in	91.4 mm	
Displacement	181.1 cu in	2967 cc	
Compression ratio	16.8:1		
Fuel requirement	Ultra low sulfur diesel (ULSD) required / B5 (5% maximum biodiesel) approved		
Horsepower (SAE)	225 hp	@ 3,750 rpm	165 kW
Max. torque	406 lb-ft	@ 1,750 rpm	550 nm
ENGINE DESIGN:			
Cylinder block	Vermicular graphite cast iron		
Cylinder head	Aluminum alloy, cross flow		
Valve train / intake	Double overhead cam, compact four valve engine design, auxiliaries and camshafts driven by maintenance free chains		
Turbocharger	GT2056 variable turbine geometry with servo assist		
Firing order	1-4-3-6-2-5		
Fuel injection / Ignition system	Common-Rail-Injection-System with 2,000 bar (29,000 psi) maximum pressure and Piezo-Injectors with eight-hole-nozzles Engine management (Bosch EDC17)		
Emission system	Oxidation catalyst, particulate filter, active DeNOx-System with diesel exhaust fluid		
Emissions level	Tier2 BIN5 / ULEV II		
ELECTRICAL SYSTEM:			
Battery	12 volts	110 amp/hr	
Alternator	14 volts	190 amp	
DRIVETRAIN:			
Transmission	Eight-speed automatic with Tiptronic®		
Type	quattro® Tiptronic Automatic		
Gear ratios:	1st	4.970:1	
	2nd	2.840:1	
	3rd	1.864:1	
	4th	1.437:1	
	5th	1.210:1	
	6th	1.000:1	
	7th	0.825:1	
	8th	0.686:1	
	Reverse	4.066:1	
	Final drive	3.273:1	
Front differential	Hypoid gear, electronically locking (EDL)		
Center differential	Self-locking differential providing automatic and variable front to rear power proportioning		
Rear differential	Hypoid gear, electronically locking (EDL)		
STEERING:			
Type	Vehicle speed-sensitive power rack and pinion, maintenance-free		
Ratio	16.5:1		
Turns (lock-to-lock)	2.66		
Turning circle (curb-to-curb)	39.4 ft	12 m	
SUSPENSION:			
Front	Front double-wishbone independent steel spring suspension		
Rear	Rear four-link independent steel spring suspension		
BRAKES:			
	Dual-circuit brake system with diagonal split, Anti-lock brake system (ABS), Electronic Brake pressure Distribution (EBD) and Electronic Stabilization Program (ESP); tandem brake booster		
Front, size and type	13.8 in	350 mm	- Ventilated disc
Rear, size and type	13.0 in	330 mm	- Ventilated disc
Parking brake	Mechanically actuated at the rear wheels		

Technical specifications (continued)		2012 Audi Q7 TDI	
WHEELS:			
Size	8.5J x 19, five-arm-Structure-design	standard	
	9.0J x 20, ten-spoke-V-design	optional	
	10.0J x 21, five-segment-spoke-design, Titanium	optional	
	10.0J x 21, five-segment-spoke-design	optional	
TIRES:			
Size	265/50 R19 all season tire	standard	
	275/45 R20 all season tire	optional	
	295/35 R21 summer tire	optional	
BODY:			
Material	Unitized steel structure with integrated aluminum and magnesium components		
Corrosion protection	All steel parts are 100% dual-side zinc-galvanized (twelve-year limited warranty against corrosion perforation)		
WARRANTY/MAINTENANCE:			
	Four-year/50,000 mile new vehicle limited warranty		
	Twelve-month/5,000 mile (whichever occurs first) NO CHARGE first scheduled maintenance		
CAPACITIES:			
	quattro		
Engine oil	8.6 qt	8.2 liter	
AdBlue®	6 gal	23 liter	
Fuel tank	26.4 gal	100 liter	
EXTERIOR DIMENSIONS:			
	TDI		
Wheelbase	118.2 in	3002 mm	
Track: front / rear	65.0 / 66.2	1651 / 1681	
Overall length	200.3 in	5089 mm	
Overall width mirrors	78.1 / 85.7	1983 / 2177	
Height (unloaded)	68.4 in	1737 mm	
Ground clearance (loaded)	8.1 in	205 mm	9.4 in 240 mm with optional Audi adaptive air suspension
Curb weight	5,567 lb	2525 kg	
Drag coefficient	Cw = 0.37	Frontal Area =	= 2.87 sq m Cw = 0.35 with optional Audi adaptive air suspension
INTERIOR DIMENSIONS:			
EPA class	Light Truck		
Seating capacity	Seven		
Head room front / middle / rear	39.5 in	1003 mm	/ 39.0 in 990 mm / 35.6 in 904 mm
w/sunroof front / middle / rear	40.0 in	1017 mm	/ 37.2 in 945 mm / 35.4 in 899 mm
Shoulder room front / middle / rear	58.7 in	1490 mm	/ 58.1 in 1475 mm / 48.6 in 1235 mm
Leg room front / middle / rear	41.3 in	1049 mm	/ 37.1 in 943 mm / 29.2 in 741 mm
Int. vol. (EPA) front / middle / rear	55.4 cu ft	48.6 cu ft 29.2 cu ft	
Luggage capacity (EPA)	10.9 cu ft	42.0 cu ft (3rd row folded)	72.5 cu ft (2nd + 3rd row folded) 144.1 cu ft (total including trunk volume)
PERFORMANCE:			
	quattro		
0-60 mph	8.0	sec	
Top speed	Electronically limited to 130 mph (209 km/h)		
FUEL ECONOMY:			
	2012 EPA figures		
	quattro		
City	17 mpg		
Highway	25 mpg		
Combined	20 mpg		

Audi Q7



Dimensions



* Air Suspension "Load Level" ** Maximum headroom
 Dimensions in millimeters and inches Dimensions of vehicle unloaded