



Audi of America

Audi Q7 TDI Technical Specifications

2011 Model Year

Technical Specifications		2011 Audi Q7 TDI
ENGINE:		
Type	Common-rail injection, 24 valve, V6 TDI (Turbo Direct Injection) 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	@ 3750 rpm
Max. Torque	406 lbs. ft.	@ 1750 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 8-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	

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Technical Specifications (continued)		2011 Audi Q7 TDI	
WHEELS:			
Size	8.5J x 19, five-arm V design	standard	
	9.0J x 20, five-double spoke design	optional	
	9.0J x 20, ten-spoke chrome-clad design	optional	
	10.0J x 21, five-segment spoke design (S line)	optional	
TIRES:			
Size	265/50 R19 all season tire	standard	
	275/45 R20 all season tire	optional	
	275/45 R20 summer performance tire	optional	
	295/35 R21 summer performance tire	optional	
BODY:			
Material	Unitized steel structure with integrated aluminum and magnesium components		
Corrosion protection	All steel parts are 100% dual-side zinc-galvanized (12 year limited warranty against corrosion perforation)		
WARRANTY/MAINTENANCE:			
	4-Year/50,000 mile new vehicle limited warranty		
	12-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	
Cooling system	9.5 qt.	9 liter	
EXTERIOR DIMENSIONS:			
	TDI		
Wheelbase	118.2 in.	3002 mm	
Track: front / rear	65.0 / 66.0	1651 / 1676	
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 lbs.	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	7		
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	55.36 cu. ft.	48.63 cu. ft.	29.22 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	8.5	sec.	
Top speed	Electronically limited to 130 mph (209 km/h)		
FUEL ECONOMY:			
	2011 EPA figures		
	quattro		
City	17	mpg	
Highway	25	mpg	
Combined	20	mpg	