

Technical Data – Audi A8 4.2 TDI quattro (258 kW)

Program for Germany – Status: May 2010

Model:	Audi A8 4.2 TDI quattro
Engine / electronics	
Engine type	V8 engine with 90° V angle
Valve gear / number of valves per cylinder	Chain drive, roller cam followers with hydraulic valve-play compensation / 4 valves per cylinder
Displacement in cc	4134 / 83 x 95.5 / 16.5
Max. power output in kW (hp) / at rpm	258 kW (350 hp) at 4000 rpm
Max. torque in Nm (<i>lb-ft</i>) / at rpm	800 Nm (590.05) at 1750-2750 rpm
Mixture preparation	Common rail (piezo injectors, max. 2000 bar), direct injection, eight-hole nozzles, biturbo VTG turbocharger with intercooler; swirl and tangential intake ports, swirl flaps
Exhaust emission control	2 oxidizing catalytic converters, water-cooled exhaust gas recirculation, 2 maintenance-free diesel particulate filters
Emissions class	EU 5
Alternator in A / battery in A/Ah	190 (water-cooled) / 580/105
Recuperation	Temporarily stores braking energy in the battery, and thus aids driving off and acceleration
Drivetrain / transmission	
Drive type	quattro permanent all-wheel drive with self-locking center differential, ESP
Clutch	Hydraulic torque converter with lock-up clutch
Transmission type	8-speed tiptronic with DSP and sport program
Gear ratio in 1st gear / 2nd gear	4.714 / 3.143
Gear ratio in 3rd gear / 4th gear	2.106 / 1.667
Gear ratio in 5th gear / 6th gear	1.285 / 1.000
Gear ratio in 7th gear / 8th gear	0.839 / 0.667
Reverse gear / final drive ratio	3.317 / 2.381
Suspension / steering / brakes	
Front suspension	Five-link front suspension, upper and lower wishbones, tubular anti-roll bar, air suspension
Rear suspension	Trapezoidal-link suspension with wishbones, tubular anti-roll bar, air suspension
Steering / turning circle in meters (D102) (<i>feet</i>)	Power steering with speed-dependent power assistance / 12.3 (40.35)
Brake system	Dual-circuit brake system with diagonal split with ESP, brake booster; hydraulic brake assist; front and rear disk brakes: ventilated; electromechanical parking brake
Wheels / tires	Cast aluminum wheels 8.0Jx18 / 235/55R18 104 Y
Performance / consumption / acoustics	
Top speed in km/h (<i>mph</i>)	250 (155.34) (governed)
Acceleration, 0-100 km/h (0-62.14 <i>mph</i>) in sec	5.5
Fuel / octane value	Sulfur-free diesel
Fuel consumption: city / highway / combined, l/100 km (<i>US mpg</i>)	10.2 / 6.1 / 7.6 (23.06 / 38.56 / 30.95)
CO2 mass emission, g/km (<i>g/mile</i>)	268 / 159 / 199 (431.30 / 255.89 / 320.26)
Idling / drive-past exterior noise level in dB (A)	74 / 72
Servicing / guarantee (Germany)	
LongLife Service after max. km (<i>miles</i>)	30000 km (18,641.14) / 2 years
Vehicle / paint / rust perforation guarantee	2 / 3 / 12 (years)
Insurance classification in Germany: third party / fully comprehensive / part-comprehensive	23 / 30 / 30
Weights / loads	
Unladen weight according to EU (excluding driver) / (including driver) / gross weight limit; in kg (<i>pounds</i>)	1995 / 2070 / 2660 (4398.22 / 4563.57 / 5864.30)
Axle load limit at front / rear in kg (<i>pounds</i>)	1405 / 1420 (3097.49 / 3130.56)
Trailer load limit on 8% / 12% gradient, braked/unbraked in kg (<i>pounds</i>)	2300 / 2300 / 750 (5070.63 / 5070.63 / 1653.47)
Roof load limit in kg / permissible nose weight in kg (<i>pounds</i>)	100 / 95 (220.46 / 209.44)
Capacities	
Cooling system capacity (incl. heating) in liters (<i>US gallons</i>)	12.2 (3.22)
Engine oil capacity (including filter) in liters (<i>US quarts</i>)	9.5 (10.04)
Fuel tank capacity in liters (<i>US gallons</i>)	90 (23.78)
Body / dimensions	
Body type / number of doors / seats	Aluminum: Audi Space Frame ASF / 4 / 5
Drag coefficient Cd / frontal area A in m2 (<i>square feet</i>)	0.27 / 2.41(25.94)
Length (L103) / width excluding mirrors (W103)/ height (H101-M), mm (<i>feet</i>)	5137 / 1949 / 1460 (16.85 / 6.39 / 4.79)
Wheelbase (L101) / track at front/rear (W101-1/W101-2), mm (<i>feet</i>)	2992 / 1644 / 1635 (9.82 / 5.39 / 5.36)
Height of loading lip in mm (H196) (<i>feet</i>)	690 (2.26)
Luggage capacity in liters (<i>cubic feet</i>) , according to VDA block method (V211) / rear seat bench folded	510 / - (18.01 / -)