

13 32 Fuel filter

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Fuel filter to body	F39 / F54 / F55 / F56 / F57 / F60 / F45 / F46 / F48 / F49 / F52, B38 / B48	M8		19 Nm
	F15 / F16, N20 / N55 / N63	M6		8 Nm
	F85 / F86, S63	M6		8 Nm
	E84 / E89 / F20 / F21 / F22 / F23 / F25 / F26 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F80 / F82 / F83 / F87	M8		19 Nm



13 53 Fuel Injector Nozzles and Lines

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ High pressure pump to vacuum pump	N55 / N55 Hybrid	M6 x 25	Continental high pressure pump	9±1 Nm
		M6 x 25	Bosch high pressure pump	12±1 Nm
2AZ Rail to cylinder head	N55 / N55 Hybrid	M7		13±1 Nm
3AZ High-pressure line to cylinder head	N55 / N55 Hybrid	M7		13±2 Nm
4AZ Fuel high-pressure sensor	N55 / N55 Hybrid	M10		30-5 Nm
5AZ Fuel low-pressure sensor	N55 / N55 Hybrid	M10	Sensata fuel low-pressure sensor	20-3 Nm
		M10	Bosch fuel low-pressure sensor	30-5 Nm
6AZ Hold-down device to cylinder head	N55 / N55 Hybrid	M7		13±1 Nm
7AZ Feed line to high pressure pump	N55 / N55 Hybrid	M14	Coat screw connection with transmission oil.	30±3 Nm
8AZ High pressure line to rail and high pressure pump	N55 / N55 Hybrid	M14	Coat screw connection with transmission oil.	30±3 Nm
9AZ High pressure lines to rail and injection system	N55 / N55 Hybrid	M12	Coat screw connection with transmission oil.	23±3 Nm
10AZ Fuel delivery line	N55 / N55 Hybrid	M8	Replace screw.	
			1. Jointing torque 2. Torsion angle adjustment	5 Nm 90°±15°
11AZ EMC plate to ignition coils and injector well	N55 / N55 Hybrid	M6		8,5 Nm
12AZ Screw plug in the EMC plate	N55 / N55 Hybrid			25 Nm
13AZ Special tool 13 0 270 or 0 496 885 on injector shaft	N55 / N55 Hybrid	M6		8,5 Nm



13 54 Throttle valve and operation

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Throttle body to intake system	N55 / N55Â Hybrid	M6 x 50		7 Nm

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13 62 Sensors for control unit

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Camshaft sensor to cylinder head	N55 / N55 Hybrid	M6x16		8 Nm
2AZ Connector housing, crankshaft sensor, to crankcase	N55 / N55 Hybrid	M6x16		8 Nm
3AZ Knock sensor to crankcase	N55 / N55 Hybrid	M8x30		21,5 Nm
4AZ Intake pressure sensor	N55 / N55 Hybrid			4 Nm
5AZ Coolant temperature sensor	N55 / N55 Hybrid			13,5 Nm
6AZ Cable channel to engine block	N55 / N55 Hybrid	M6		8 Nm
7AZ Oil temperature sensor to engine block	N55 / N55 Hybrid			15 Nm
8AZ Crankshaft sensor to crankcase	N55 / N55 Hybrid			5 Nm



13 71 Intake silencer

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Intake silencer on clean air pipe	N55 / N55 Hybrid		Clamp	3 Nm
2AZ Lower air duct to cylinder head	N55 / N55 Hybrid			8 Nm
3AZ Air duct to exhaust turbocharger	N55 / N55 Hybrid			8 Nm
4AZ Hot film air mass meter to top clean air pipe	N55 / N55 Hybrid			2 Nm

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1371 Overview of tightening torques

Intake port to body	
	5Nm

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13 operating fluid overview

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16 11 Fuel Tank and Mounting Parts

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Fuel tank to body (hexagon nut)	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36	M8	Replace self-locking nuts.	19 Nm
2AZ Tension strap to body (hexagon screw)	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36	M8		19 Nm
3AZ Hose clip to clamping ring (filler pipe)	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36		Replace hose clamp.	3,5 Nm

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16 12 Fuel Delivery

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Hose clamps 42 - 48 mm dia.	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36			4 Nm
2AZ Fuel filler pipe to body	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36	M5	Plastic nut	4 Nm
	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36	M6	Hexagon nut	8 Nm

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16 13 Tank ventilation

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Carbon canister on tank holder	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36	M6x25		4 Nm
2AZ Tank leak diagnosis module to carbon canister	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36			2 Nm
3AZ Dust filter to body	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36			4 Nm

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16 14 Fuel pump

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ El. fuel pump ECU to body	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36	M6		4 Nm

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