

12 12 Spark Plugs

Tightening Torques

	Type	Thread	Tightening specification	Torque
1AZ Spark plugs (ungreased)	All	M12x1.25		23 ± 3 Nm
	All	M14x1.25		30 ± 3 Nm

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12 14 Electronic Shift Units or Control Units

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Control unit (DME) to intake plenum	N55 / N55 Hybrid			10 Nm
2AZ Control unit (DME) to intake plenum	N55 / N55 Hybrid	M6		12 Nm

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12 31 Alternator with Drive and Mounting Parts

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Alternator to crankcase, top	N55 / N55 Hybrid	M8 x 85		19 Nm
2AZ Alternator to crankcase with A/C compressor carrier	N55 / N55 Hybrid	M8x105		19 Nm
3AZ Holder, air conditioning compressor, to bedplate	N55 / N55 Hybrid	M8		19 Nm

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12 41 Starter motor with mounting

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Starter motor to crankcase	N55 / N55Â Hybrid	M10x30		38 Nm
Starter motor to transmission housing		M10x85		38 Nm

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12 42 Alternator lead

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Alternator lead to alternator	N55 / N55 Hybrid	M8		19 Nm
2AZ Alternator lead to starter	N55 / N55 Hybrid	M8		13 Nm
3AZ Alternator lead to battery positive terminal	N55 / N55 Hybrid	M8		15 Nm
		M6		8 Nm

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12 52 Plug connections, terminals, loose components

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Bracket on cylinder head cover	N20 / N26			5.5 Nm
2AZ Earth cable for ignition coils	N20 / N26	M5		4.5 Nm
3AZ Earth cable to crankcase (electr. coolant pump)	N20 / N26	M6		8 Nm
4AZ Earth cable to earth point	N20 / N26	M6		8 Nm
5AZ Cable channel to engine block	N20 / N26	M6		8 Nm
6AZ VTC earth cable to jump start terminal point	N20 / N26	M6		8 Nm
7AZ Positive battery cable to power distribution module	N20 / N26 / N55 / N55Å Hybrid	M6		8 Nm



12 52 Plug connections, terminals, loose components

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Bracket on cylinder head cover	N20 / N26			5.5 Nm
2AZ Earth cable for ignition coils	N20 / N26	M5		4.5 Nm
3AZ Earth cable to crankcase (electr. coolant pump)	N20 / N26	M6		8 Nm
4AZ Earth cable to earth point	N20 / N26	M6		8 Nm
5AZ Cable channel to engine block	N20 / N26	M6		8 Nm
6AZ VTC earth cable to jump start terminal point	N20 / N26	M6		8 Nm
7AZ Positive battery cable to power distribution module	N20 / N26 / N55 / N55Å Hybrid	M6		8 Nm



12 61 Oil pressure, oil level indicator

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Engine oil pressure switch	N55 / N55 Hybrid	M12x1.5	Jointing torque Angle of rotation	20 Nm 16 °
2AZ Replacing engine oil level sensor	N55 / N55 Hybrid	M6		8,5 Nm

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12 90 Electronics box, wiring harness

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Cable channel to cylinder head cover	N55 / N55 Hybrid			8 Nm
2AZ Earth cable to crankcase lower section	N55 / N55 Hybrid	M8	Replace aluminium screw. Jointing torque Angle of rotation	8 Nm 45 °
3AZ Earth cable to rear cylinder head	N55 / N55 Hybrid	M6		8 Nm
4AZ Cable channel to engine block	N55 / N55 Hybrid	M6	Replace aluminium screws.	8 Nm
5AZ Earth cable for ignition coils	N55 / N55 Hybrid			5 Nm

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