

AZD-AZD-AZDMUC2211-01 Engine mounting; VIN: VM11125

ISTA system version	4.02.14.17970	Data version	R4.02.14.17970	Programming data	-
VIN	VM11125	Vehicle	1'E82/Coupe/135i/N55/MANUAL/US/LL/2010/11		
Int.lev.works	-	Int.lev.(cur.)	-	Int.lev.(tar.)	-
Mileage	0 km				

22 11 Engine mounting

	Type	Thread	Tightening specifications	Dimension
1AZ Engine mount to front axle support	E52 / E85 / E86			42 Nm
	E65 / E66 / E67	M8-8		19 Nm
	E60 / E61 / E63 / E64 / E83	M8-8		21 Nm
	E53	M8 -10.9		30 Nm
	E87 / E90 / E91 / E92 / E93 / E70 / E71 / E83 / E81 / E82 / E88 / E89 / E84	M8 10.9		28 Nm
	E70 / E71 / E72 / E83 / E84 / E90 / E91 / E92 / E93	M10		38 Nm
	E92 / E90 / S65	M10		56 Nm
2AZ Engine mount to engine support arm	E60 / E61 / E63 / E64 / E65 / E66 / E67 / E53 / E83 / E87 / E90 / E91 / E92 / E93 / E70 / E71 / E81 / E82 / E88 / E89 / E84	M10 10.9		56 Nm
	E65 / E66 / E67	M12 10.9		100 Nm
	E70 / E71 / E72 / E83 / E84 / E90 / E91 / E92 / E93	M12		68 Nm
	E85 / E86 / E52			42 Nm
3AZ Engine support arm to engine	E60 / E61 / E63 / E64 / E65 / E66 / E67 / E70 / E71 / E72 / E81 / E82 / E83 / E84 / E87 / E88 / E89 / E90 / E91 / E92 / E93	M10 8.8		38 Nm
	N51 / N52 / N52K / N53	M12	Aluminium bolts must be replaced 1. Jointing torque 2. Angle of rotation	25 Nm 105 °
	E60 / E61 / E65 / E66 / E67	M8 8.8		19 Nm

	E85 / E83	M8 8.8		21 Nm
	E70 / E71	M10 10.9		56 Nm
	E53 (N62/ M54)			38 Nm
	E53 (M57)			65 Nm
	N54 / N55	M12	Engine N54 / 55 only	66 Nm
	N42	M10 8.8		38 Nm
4AZ Engine mount to console	E65 / E60 / E61 / E63/E64	M8 8.8		21 Nm
5AZ Console to front axle support	E65 / E60 / E61 / E63 / E64	M8-8		21 Nm
6AZ Vibration absorber to engine support	E70 / E71			19 Nm
7AZ Reinforcement plate to front axle support	E90 / E91 / E92	M8		19 Nm
8AZ Support angle to engine mount or front axle support	E90 / E91 / E92	M8		19 Nm

AZD-AZD-AZDMUC1142-N55 Oil Filter and Lines; VIN: VM11125

ISTA system version	4.02.14.17970	Data version	R4.02.14.17970	Programming data	-
VIN	VM11125	Vehicle	1'E82/Coupe/135i/N55/MANUAL/US/LL/2010/11		
Int.lev.works	-	Int.lev.(cur.)	-	Int.lev.(tar.)	-
Mileage	0 km				

11- 42 Oil Filter and Lines

	Type	Thread	Tightening specifications	Dimension
1AZ Oil filter cap to oil filter housing	N55			25 Nm
2AZ Oil filter housing to cylinder head	N55	M8 x 78 M8 x 43 M8 x 28		22 Nm
3AZ Oil-coolant heat exchanger to oil filter housing.	N55	M8 x 20		16 Nm
4AZ Oil feed line (exhaust turbocharger) to crankcase-upper part.	N55	M6x16		8 Nm
5AZ Oil feed line to exhaust turbocharger.	N55	M6 x 12		8 Nm
6AZ Oil return line to turbocharger	N55	M6 x 16		8 Nm
7AZ Oil return line to crankcase bottom section	N55	M6 x 16		8 Nm
8AZ Screw plug to oil filter housing	N55	M20		40 Nm

AZD-AZD-AZDMUC1831-E82N55 Exhaust pipe with catalytic converter / complete system, VIN: VM11125

ISTA system version	4.02.14.17970	Data version	R4.02.14.17970	Programming data	-
VIN	VM11125	Vehicle	1'/E82/Coupe/135i/N55/MANUAL/US/LL/2010/11		
Int.lev.works	-	Int.lev.(cur.)	-	Int.lev.(tar.)	-
Mileage	0 km				

18 31 Exhaust pipe with catalytic converter / complete system

	Type	Thread	Tightening specifications	Dimension
1AZ exhaust system to catalytic converter	N55	M8		21 Nm
2AZ Exhaust system to rear wheel carrier	N55	M8		21 Nm
3AZ Catalytic converter to turbocharger	N55	M8 x 40	Replace clamp	13 Nm
4AZ Exhaust system to rear axle final drive	N55	AM12		35 Nm
5AZ Clamp	N55			45 Nm
6AZ Exhaust system to body	N55	M8		21 Nm
7AZ Reinforcement plate to body	N55	M8		21 Nm

AZD-AZD-AZDMUC2211-01 Engine mounting; VIN: VM11125

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VIN	VM11125	Vehicle	1'E82/Coupe/135i/N55/MANUAL/US/LL/2010/11		
Int.lev.works	-	Int.lev.(cur.)	-	Int.lev.(tar.)	-
Mileage	0 km				

22 11 Engine mounting

	Type	Thread	Tightening specifications	Dimension
1AZ Engine mount to front axle support	E52 / E85 / E86			42 Nm
	E65 / E66 / E67	M8-8		19 Nm
	E60 / E61 / E63 / E64 / E83	M8-8		21 Nm
	E53	M8 -10.9		30 Nm
	E87 / E90 / E91 / E92 / E93 / E70 / E71 / E83 / E81 / E82 / E88 / E89 / E84	M8 10.9		28 Nm
	E70 / E71 / E72 / E83 / E84 / E90 / E91 / E92 / E93	M10		38 Nm
	E92 / E90 / S65	M10		56 Nm
2AZ Engine mount to engine support arm	E60 / E61 / E63 / E64 / E65 / E66 / E67 / E53 / E83 / E87 / E90 / E91 / E92 / E93 / E70 / E71 / E81 / E82 / E88 / E89 / E84	M10 10.9		56 Nm
	E65 / E66 / E67	M12 10.9		100 Nm
	E70 / E71 / E72 / E83 / E84 / E90 / E91 / E92 / E93	M12		68 Nm
	E85 / E86 / E52			42 Nm
3AZ Engine support arm to engine	E60 / E61 / E63 / E64 / E65 / E66 / E67 / E70 / E71 / E72 / E81 / E82 / E83 / E84 / E87 / E88 / E89 / E90 / E91 / E92 / E93	M10 8.8		38 Nm
	N51 / N52 / N52K / N53	M12	Aluminium bolts must be replaced 1. Jointing torque 2. Angle of rotation	25 Nm 105 °
	E60 / E61 / E65 / E66 / E67	M8 8.8		19 Nm

	E85 / E83	M8 8.8		21 Nm
	E70 / E71	M10 10.9		56 Nm
	E53 (N62/ M54)			38 Nm
	E53 (M57)			65 Nm
	N54 / N55	M12	Engine N54 / 55 only	66 Nm
	N42	M10 8.8		38 Nm
4AZ Engine mount to console	E65 / E60 / E61 / E63/E64	M8 8.8		21 Nm
5AZ Console to front axle support	E65 / E60 / E61 / E63 / E64	M8-8		21 Nm
6AZ Vibration absorber to engine support	E70 / E71			19 Nm
7AZ Reinforcement plate to front axle support	E90 / E91 / E92	M8		19 Nm
8AZ Support angle to engine mount or front axle support	E90 / E91 / E92	M8		19 Nm

AZD-AZD-AZDMUC1153-N55 Thermostat and Connections, VIN: VM11125

ISTA system version	4.02.14.17970	Data version	R4.02.14.17970	Programming data	-
VIN	VM11125	Vehicle	1'E82/Coupe/135i/N55/MANUAL/US/LL/2010/11		
Int.lev.works	-	Int.lev.(cur.)	-	Int.lev.(tar.)	-
Mileage	0 km				

11 53 Thermostat and Connections

	Type	Thread	Tightening specification	Measure
1AZ Thermostat housing to coolant pump.	N55	M6 x 25		8 Nm
2AZ Thermostat housing to holder.	N55			9 Nm
3AZ Holder to radiator	N55		Self-tapping screw	3 Nm
4AZ Feed line to crankcase.	N55	M6x16		8.5 Nm
5AZ Feed line to coolant pump.	N55	L42-48	Hose clamp	3 Nm
6AZ Oil-to-water heat exchanger (ÖWWT) feed line.	N55	L18-24	Hose clamp	3 Nm
7AZ Coolant line to cylinder head (short-circuit line).	N55	M6 x 23		8.5 Nm
8AZ Coolant line to thermostat.	N55		Hose clamp with corrugated spring	3 Nm
9AZ Coolant hose from thermostat to coolant pump	N55	L42-48		3 Nm
10AZ Radiator supply and drain line to exhaust turbocharger	N55	M6 x 16		8 Nm
11AZ Coolant return line to crankcase.	N55	M6 x 16		8 Nm

AZD-AZD-AZDMUC1153-N55 Thermostat and Connections, VIN: VM11125

ISTA system version	4.02.14.17970	Data version	R4.02.14.17970	Programming data	-
VIN	VM11125	Vehicle	1'E82/Coupe/135i/N55/MANUAL/US/LL/2010/11		
Int.lev.works	-	Int.lev.(cur.)	-	Int.lev.(tar.)	-
Mileage	0 km				

11 53 Thermostat and Connections

	Type	Thread	Tightening specification	Measure
1AZ Thermostat housing to coolant pump.	N55	M6 x 25		8 Nm
2AZ Thermostat housing to holder.	N55			9 Nm
3AZ Holder to radiator	N55		Self-tapping screw	3 Nm
4AZ Feed line to crankcase.	N55	M6x16		8.5 Nm
5AZ Feed line to coolant pump.	N55	L42-48	Hose clamp	3 Nm
6AZ Oil-to-water heat exchanger (ÖWWT) feed line.	N55	L18-24	Hose clamp	3 Nm
7AZ Coolant line to cylinder head (short-circuit line).	N55	M6 x 23		8.5 Nm
8AZ Coolant line to thermostat.	N55		Hose clamp with corrugated spring	3 Nm
9AZ Coolant hose from thermostat to coolant pump	N55	L42-48		3 Nm
10AZ Radiator supply and drain line to exhaust turbocharger	N55	M6 x 16		8 Nm
11AZ Coolant return line to crankcase.	N55	M6 x 16		8 Nm

AZD-AZD-AZDMUC1151-N55 Coolant pump with drive; VIN: VM11125

ISTA system version	4.02.14.17970	Data version	R4.02.14.17970	Programming data	-
VIN	VM11125	Vehicle	1'E82/Coupe/135i/N55/MANUAL/US/LL/2010/11		
Int.lev.works	-	Int.lev.(cur.)	-	Int.lev.(tar.)	-
Mileage	0 km				

11 51 Coolant pump with drive

	Type	Thread	Tightening specifications	Dimension
1AZ Coolant pump to crankcase	N55	M8 x 26	Replace screws. Thread repairs exclusively with aluminium Helicoil threaded insert. Jointing torque and angle of rotation must be observed without fail. Jointing torque Angle of rotation	10 Nm 90 °
2AZ Coolant pump to holder (only for vehicles with holder).	N55	M8 x 27	Replace screws. Thread repairs exclusively with aluminium Helicoil threaded insert. Jointing torque and angle of rotation must be observed without fail. Jointing torque Angle of rotation	10 Nm 90 °
3AZ Coolant hose between coolant pump and coolant thermostat.	N55	L42-48		3 Nm
4AZ Coolant hose between coolant pump and feed line.	N55	L42-48		3 Nm
5AZ Auxiliary water pump holder for EME to retaining bracket	N55, F10h / F01h / F02h / F30h	M6 x 14		10 Nm

AZD-AZD-AZD23-00-01 Transmission in general, VIN: VM11125

ISTA system version	4.02.14.17970	Data version	R4.02.14.17970	Programming data	-
VIN	VM11125	Vehicle	1'E82/Coupe/135i/N55/MANUAL/US/LL/2010/11		
Int.lev.works	-	Int.lev.(cur.)	-	Int.lev.(tar.)	-
Mileage	0 km				

23 00 Transmission in general

	Type	Thread	Tightening specifications	Dimension
1AZ Transmission to engine Transmission designations, see 23...				
Hex screws	B / C / D / E / F / G / H / I / 7- speed SMG	M6		8 Nm
	B / C / D / E / F / G / H / I / 7- speed SMG	M8		25 Nm
	B / C / D / E / F / G / H / I / 7- speed SMG	M10		49 Nm
	B / C / D / E / F / G / H / I / 7- speed SMG	M12		74 Nm
Torx bolt	B / C / D / E / F / G / H / I / 7- speed SMG	M6		9 Nm
	B / C / D / E / F / 7-speed SMG	M8		19 Nm
	B / C / D / E / H / I / 7-speed SMG	M10		43 Nm
	G-transmission	M10		38 Nm
	7-speed SMG	M10x55 8.8		43 Nm
	7-speed SMG	M10x42 8.8		42 Nm
Steel screws with Torx head	I / G / H / K transmission	M8		19 Nm
Steel screws with Torx head	I / G / H / K transmission	M12		66 Nm
2Az Transmission to engine N52/N52K/N53/N54/N55 Aluminium screws/bolts are not magnetic.	I / G / H- transmission		Replace screws Jointing torque and angle of rotation must be observed without fail	

	I / G / H- transmission	M10x30	Jointing torque	20 Nm
			Angle of rotation	90--110°
	I / G / H- transmission	M10x85	Jointing torque	20 Nm
			Angle of rotation	180--200°
	I / G / H / K transmission	M12	Jointing torque	25 Nm
			Angle of rotation	130 ° +20°
3AZ Cover plate, transmission	I / H- transmission	M6		8 Nm

AZD-AZD-AZDMUC1165-N55 Turbocharger and Control; VIN: VM11125

ISTA system version	4.02.14.17970	Data version	R4.02.14.17970	Programming data	-
VIN	VM11125	Vehicle	1'E82/Coupe/135i/N55/MANUAL/US/LL/2010/11		
Int.lev.works	-	Int.lev.(cur.)	-	Int.lev.(tar.)	-
Mileage	0 km				

11 65 Turbocharger and Control

	Type	Thread	Tightening specification	Measure
1AZ Exhaust turbocharger to cylinder head	N55	M7	Replace flange nut.	13 Nm
2AZ Heat shield/retaining plate to crankcase top section	N55	M6 x 16		8 Nm
3AZ Pressure converter (EPDW) to cylinder head.	N55	M6 x 16		8.5 Nm
4AZ Pressure converter (EPDW) to holder with heat shield.	N55	M6 x 16		9 Nm
5AZ Vacuum unit (wastegate valve) to bracket	N55	M6		7 Nm
6AZ Lock nut to vacuum unit (wastegate valve) linkage	N55	M6		7 Nm
7AZ Bracket, vacuum unit (wastegate valve), to turbocharger	N55	M8		7 Nm
8AZ Holder to exhaust turbocharger.	N55	M8		20 Nm
9AZ Exhaust turbocharger holder to cylinder crankcase.	N55	M8	Replace micro-encapsulated screws	20 Nm