

17 10 Radiator, expansion tank

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Fan cowl on radiator	N47 D16 U 1 / N47 D20 K 1 / N47 D20 U 1 / N47 D20 O 1 / N47 D20 T 1 / N57 D30 O 1 / N57 D30 T 1			4,5 Nm
2AZ Radiator on module carrier	N47 D16 U 1 / N47 D20 K 1 / N47 D20 U 1 / N47 D20 O 1 / N47 D20 T 1 / N57 D30 O 1 / N57 D30 T 1			4,5 Nm
3AZ Intercooler to module carrier	N47 D16 U 1 / N47 D20 K 1 / N47 D20 U 1 / N47 D20 O 1 / N47 D20 T 1 / N57 D30 O 1 / N57 D30 T 1			4,5 Nm
4AZ Expansion tank to body	N47 D16 U 1 / N47 D20 K 1 / N47 D20 U 1 / N47 D20 O 1 / N47 D20 T 1 / N57 D30 O 1 / N57 D30 T 1			4,5 Nm

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2AZ Radiator on module carrier	N47 D16 U 1 / N47 D20 K 1 / N47 D20 U 1 / N47 D20 O 1 / N47 D20 T 1 / N57 D30 O 1 / N57 D30 T 1			4,5 Nm
3AZ Intercooler to module carrier	N47 D16 U 1 / N47 D20 K 1 / N47 D20 U 1 / N47 D20 O 1 / N47 D20 T 1 / N57 D30 O 1 / N57 D30 T 1			4,5 Nm
4AZ Expansion tank to body	N47 D16 U 1 / N47 D20 K 1 / N47 D20 U 1 / N47 D20 O 1 / N47 D20 T 1 / N57 D30 O 1 / N57 D30 T 1			4,5 Nm

17 22 Engine oil cooler lines and transmission oil cooler lines

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Transmission oil cooler line to transmission	N47 D16 U 1 / N47 D20 K 1 / N47 D20 U 1 / N47 D20 O 1 / N47 D20 T 1 / N57 D30 O 1 / N57 D30 T 1	M6		8 Nm
2AZ Transmission oil lines to transmission oil cooler	N47 D16 U 1 / N47 D20 K 1 / N47 D20 U 1 / N47 D20 O 1 / N47 D20 T 1 / N57 D30 O 1 / N57 D30 T 1	M6		8 Nm
3AZ Thermostat housing to oil filter housing	N47 D16 U 1 / N47 D20 K 1 / N47 D20 U 1 / N47 D20 O 1 / N47 D20 T 1 / N57 D30 O 1 / N57 D30 T 1	M6		8 Nm

17 22 Engine oil cooler lines and transmission oil cooler lines

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Transmission oil cooler line to transmission	N47 D16 U 1 / N47 D20 K 1 / N47 D20 U 1 / N47 D20 O 1 / N47 D20 T 1 / N57 D30 O 1 / N57 D30 T 1	M6		8 Nm
2AZ Transmission oil lines to transmission oil cooler	N47 D16 U 1 / N47 D20 K 1 / N47 D20 U 1 / N47 D20 O 1 / N47 D20 T 1 / N57 D30 O 1 / N57 D30 T 1	M6		8 Nm
3AZ Thermostat housing to oil filter housing	N47 D16 U 1 / N47 D20 K 1 / N47 D20 U 1 / N47 D20 O 1 / N47 D20 T 1 / N57 D30 O 1 / N57 D30 T 1	M6		8 Nm

1722 Overview of tightening torques

Transmission oil cooler line to transmission	
M8	19Nm

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17 operating fluid overview

Expendable materials

BMW antifreeze and corrosion inhibitor G30-91 DEU	1500 ml, Can	83192211662
	60 l, Barrel	83192304076

Expendable materials

BMW antifreeze and corrosion inhibitor G30-91 Worldwide (except DEU, JPN, CHN, FIN, NOR, SWE, DNK, FRO, AUS)	1500 ml, Can	83512355294
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Expendable materials

BMW antifreeze and corrosion inhibitor G30-91 Worldwide (except DEU)	60 l, Barrel	83512355295
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Expendable materials

BMW antifreeze and corrosion inhibitor G48 DEU	1500 ml, Can	83192211191
	60 l, Barrel	83192304068
	205 l, Barrel	83192304069

Expendable materials

BMW antifreeze and corrosion inhibitor (i01) Worldwide	1 l, Can	83512355296
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Expendable materials

BMW antifreeze and corrosion inhibitor G48 Worldwide (except DEU, JPN, CHN, FIN, NOR, SWE, DNK, FRO, AUS)	1500 ml, Can	83512355290
	60 l, Barrel	83512355291
	205 l, Barrel	83512355293

Expendable materials

BMW antifreeze and corrosion inhibitor G48 FIN, NOR, SWE, DNK, FRO	1500 ml, Can	83192211914
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Expendable materials

BMW antifreeze and corrosion inhibitor G48 JPN	1500 ml, Can	83192211194
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Expendable materials

BMW antifreeze and corrosion inhibitor G48 OFF	1500 ml, Can	83192211913
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Expendable materials

Expendable materials

BMW antifreeze and corrosion inhibitorG48 CHN	1500 ml, Can	83192211195
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Expendable materials

BMW antifreeze and corrosion inhibitor HT-12 Worldwide	5, Canister	83192466484
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Expendable materials

Technically suitable antifreeze and corrosion inhibitor Main group 17	
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