	Type	Thread	Tightening specification	Measure
1AZ Hose clamps to coolant hoses 32 ... 48 mm dia.	All			2.5 Nm
2AZ Bleed screw (WAF 8) to thermostat housing	All, without E46			8 Nm
Plastic bleed screws to coolant lines	E46			2 -0.5/+1 Nm
3AZ Level switch (WAF 30) to coolant expansion tank	All			3 Nm
4AZ Bleed screw to water valve or auxiliary water pump	E90 / E91			3.5 Nm

	Type	Thread	Tightening specification	Measure
1AZ Radiator to body				
self-tapping screw	All	B6.3		9 Nm
	All	M6		10 Nm
2AZ Drain plug to radiator	All			2.5 Nm
3AZ Temperature switch to radiator (91 °C / 99 °C) max.	All			15 Nm
4AZ Expansion tank to body	All			9 Nm
	M57TU / E65			4 Nm
5AZ Radiator on module carrier	E46			4 + 1 Nm
6AZ Retaining plate, expansion tank, to radiator	E46			4 + 1 Nm
7AZ Fan cowl on radiator	E46			4 + 1 Nm
8AZ Plug in radiator (temperature switch omitted)	E36/7 / M54	M14 x 1.5		15 Nm
9AZ Mounting plate to radiator	M57TU / E65			4.5 Nm
10AZ Radiator bracket	All			2.5 Nm

17 11 Radiator, expansion tank, lines (N52, N52K, N51, N54, N45, N46)

	Type	Thread	Tightening specification	Measure
1AZ Radiator bracket, top	N52, N52K, N51, N54, N45, N46, N53, N43			3 Nm
2AZ Radiator to cooling module	N52, N52K, N51, N54, N45, N46, N53	K60 x 20		4.5 Nm
3AZ Expansion tank to body	N52, N52K, N51, N54, N45, N46, N53, N43	M6 x 20		8 Nm

17 11 Radiator, expansion tank, lines (N52, N52K, N51, N54, N45, N46)

	Type	Thread	Tightening specification	Measure
1AZ Radiator bracket, top	N52, N52K, N51, N54, N45, N46, N53, N43			3 Nm
2AZ Radiator to cooling module	N52, N52K, N51, N54, N45, N46, N53	K60 x 20		4.5 Nm
3AZ Expansion tank to body	N52, N52K, N51, N54, N45, N46, N53, N43	M6 x 20		8 Nm

	Type	Thread	Tightening specification	Measure
1AZ Engine oil cooler to body	All			14 Nm
Oil cooler vapor extraction guide to trim panel	E36 / M3	B4.8		4 Nm

17 21 Engine Oil Cooler

	Type	Thread	Tightening specification	Measure
1AZ Transmission oil-water heat exchanger to front axle carrier	N52	M6x35		8 Nm
2AZ Engine oil cooler to holder	N52	M8 x 35		12 Nm
3AZ Engine oil cooler to holder	N52	Oval-head screw		3 Nm

17 40 Additional Fan (electric)

	Type	Thread	Tightening specification	Measure
1AZ Electric auxiliary fan on fan cowl	E46			6 Nm
2AZ Electronics for auxiliary fan on fan cowl	E46			6 Nm

17 22 Oil Cooler Pipes

	Type	Thread	Tightening specification	Measure
5AZ Cap nut on transmission oil cooler (on radiator) and on transmission	All	M18 x 1.5		20 Nm
	5HP30	M22 x 1.5		28 Nm
6AZ Oil lines on transmission				
Hollow bolt	All	M16 x 1.5		37 Nm
7AZ Oil lines on transmission oil cooler	A 5 S 300 J			28 Nm
Hollow bolt	All	M14 x 1.5		27 Nm
8AZ Screw-in fitting on transmission	All	M14x1.5 und M16x1.5		37 Nm
9AZ Oil hose on oil pipe	E23			28 Nm
10AZ Oil pipe bracket on radiator	E23			2 Nm
11AZ Oil pipe bracket on body	E23			6.5 Nm
12AZ Oil cooler on transmission	5HP30			10 Nm
13AZ Transmission oil cooler line to transmission	N42	M8		21 Nm

17 22 Oil Cooler Pipes

	Type	Thread	Tightening specification	Measure
1AZ Transmission oil cooler line to transmission	N52K	M8x28		20 Nm
2AZ Transmission oil cooler line to oil sump	N52K	M6		10 Nm
3AZ Transmission oil cooler line to transmission sump	N52K	M6x35		8 Nm
4AZ Transmission oil cooler line to transmission oil-water heat exchanger	N52K	M6x35		8 Nm
5AZ Engine oil cooler lines to oil module/engine oil cooler	N52K	M8		20 Nm

17 40 Additional Fan (electric)

	Type	Thread	Tightening specification	Measure
1AZ Electric auxiliary fan on fan cowl	E46			6 Nm
2AZ Electronics for auxiliary fan on fan cowl	E46			6 Nm