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

	Type	Thread	Tightening specification	Measure
1AZ Primary catalytic converter to turbocharger/or jacket pipe to catalytic converter	M57 / M57TU	M10		42 Nm
	M67			15 Nm
	M30 / M70		Tighten down compression spring with nut uniformly to full extent, then slacken by 1.5 turns	10 Nm
	M51		Preload compression springs with nut to 27 ± 1 mm	
	S50	M10		30 Nm
	S54 / ECE	M10		27 Nm
	S54 / US	M10		24 Nm
2AZ Exhaust pipe to flow section	E23			25 Nm
3AZ Clamp for final muffler	All	M8		15 Nm
4AZ Catalytic converter on silencer	E36 / M42 / M43 / M44		Version with compression spring: Evenly preload compression springs with nuts to 30 mm	
5AZ Connection of positive and negative leads to E catalytic converter	M73			5 Nm
6AZ Rear muffler to intermediate muffler	E53	M8		30 Nm
7AZ Vacuum tank to retaining plate	E46 / M54	M8		10 Nm
8AZ Exhaust system to exhaust manifold	M40 / M42 / M43 / M44	M10		45 Nm
9AZ Primary cat. to exhaust system	M57TU / E65			55 Nm

18 40 Exhaust manifold

	Type	Thread	Tightening specification	Measure
1AZ Exhaust manifold to cylinder head	N52/ N52K/N51/ N45/N53	M7 nut		20 Nm

	Type	Thread	Tightening specification	Measure
1AZ Exhaust system to manifold	N52 / N52K / N51	M10 nut		45 Nm
2AZ Preliminary pipe bracket to transmission	N52 / N52K / N51	M8		21 Nm
3AZ Bracket to rear differential	N52 / N46 / M47T2 / M57T2	M12 nut		30 Nm
4AZ Bracket, rear muffler, to support plate	N52 / N52K / N51	M8 nut		21 Nm
5AZ Rear muffler to body	N52 / N52K / N51/ M47T2	M8 nut		21 Nm
6AZ Exhaust system to transmission	M47T2	ASA M8 bolt		21 Nm
7AZ Exhaust system to body	N52 / N52K / N51,	M8		21 Nm
8AZ Clamp	N52 / N52K / N51			45 Nm

18 00 Rear muffler

	Type	Thread	Tightening specification	Measure
1AZ Chrome panel to rear muffler	E8x,E9x		Screw securing, Powerlok	9.5 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

18 40 Exhaust manifold

	Type	Thread	Tightening specification	Measure
1AZ Exhaust manifold to cylinder head	N52/ N52K/N51/ N45/N53	M7 nut		20 Nm

	Type	Thread	Tightening specification	Measure
1AZ Exhaust system to manifold	N52 / N52K / N51	M10 nut		45 Nm
2AZ Preliminary pipe bracket to transmission	N52 / N52K / N51	M8		21 Nm
3AZ Bracket to rear differential	N52 / N46 / M47T2 / M57T2	M12 nut		30 Nm
4AZ Bracket, rear muffler, to support plate	N52 / N52K / N51	M8 nut		21 Nm
5AZ Rear muffler to body	N52 / N52K / N51/ M47T2	M8 nut		21 Nm
6AZ Exhaust system to transmission	M47T2	ASA M8 bolt		21 Nm
7AZ Exhaust system to body	N52 / N52K / N51,	M8		21 Nm
8AZ Clamp	N52 / N52K / N51			45 Nm

18 00 Rear muffler

	Type	Thread	Tightening specification	Measure
1AZ Chrome panel to rear muffler	E8x,E9x		Screw securing, Powerlok	9.5 Nm

18 40 Exhaust manifold

	Type	Thread	Tightening specification	Measure
1AZ Exhaust manifold to cylinder head	N52/ N52K/N51/ N45/N53	M7 nut		20 Nm