

24 61 Control unit

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ EGS control unit to transmission	ASINF21FT / ASINF22AW	M8		25 Nm
2AZ Lever to EGS control unit	ASINF21FT / ASINF22AW	M8		15 Nm

24 00 Transmission in general

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Transmission to engine	F39 / F45 / F46 / F48 / F49 / F52_AISIN F22AW	M12		66 Nm
		M8		19 Nm
2AZ Grounding cable to transmission	F39 / F45 / F46 / F48 / F49 / F52_AISIN F22AW	M8		19 Nm

24 00 Transmission in general

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Transmission to engine	F39 / F45/F52_AISIN F21FT	M12		66 Nm
		M8		19 Nm
2AZ Starter motor cover to transmission	F45_PHEV / F49_PHEV	M8		19 Nm
3AZ Transmission oil pump to transmission	F45_PHEV / F49_PHEV	M8		24 Nm

2400 Overview of tightening torques

Ground strap to transmission			
M8		Tightening torque	19Nm
Transmission to engine			
M8		Tightening torque	19Nm
M12		Tightening torque	66Nm
Transmission to engine			
M8x40		Tightening torque	19Nm
M12x75		Tightening torque	66Nm
Transmission to engine			
M8		Tightening torque	19Nm
M12		Tightening torque	66Nm

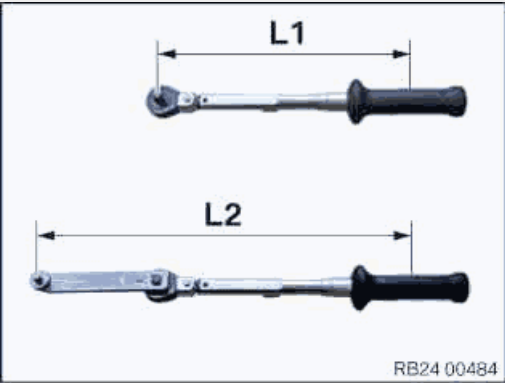
24 11 Transmission Case, Oil Sump

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Drain screw to transmission housing	F45 / F46 / F48 / F52 / F49 AISINF21FT / AISINF22AW	M18	Replace sealing ring	45 Nm
2AZ Overflow screw in drain screw	F45 / F46 / F48 / F52 / F49 AISINF21FT / AISINF22AW	M6	Replace sealing ring	8 Nm
3AZ Filler plug to transmission housing	F45 / F46 / F48 / F52 / F49 AISINF21FT / AISINF22AW	M14	Replace sealing ring	45 Nm
4AZ Transmission oil cooler to transmission housing	F45 / F46 / F48 / F52 / F49 AISINF21FT / AISINF22AW	M8	Replace O-rings	21 Nm

2411 Overview of tightening torques

Oil filler plug (GA6HP and GA8HP)



M18
The torque to be set deviates from the specified tightening torque due to the special tool. The torque to be set must be calculated depending on the used torque.

Tightening torque		35Nm
Torque to be set	Torque to be set=(35 Nm * L1) : L2	

24 30 Hydraulic / electric control parts and controlling elements

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Lid, hydraulic shift unit to transmission	F45 / F46 / F48 / F52 / F49 AISINF21FT / AISINF22AW	M8	Replace screws	13 Nm
2AZ Hydraulic shift unit to transmission	F45 / F46 / F48 / F52 / F49 AISINF21FT / AISINF22AW	M6		10 Nm
3AZ Temperature sensor to shift unit	F45 / F46 / F48 / F52 / F49 AISINF21FT / AISINF22AW	M6		7 Nm

24 35 Wiring harness, shift elements and sensor

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Speed sensor to transmission	F45/F46/F48/F49/F52_AISIN F21FT	M6 x 14		5 Nm

24 35 Wiring harness, shift elements and sensor

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Speed sensor to transmission	F45F46/F48/F52/F49 AISIN F22AW	M6 x 14		5 Nm

24 40 Torque converter

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Torque converter to flywheel	F45/F46/F49/F52_AISIN F21FT	M10	Replace twist nuts. (Remove any adhesive residue from the threads)	56 Nm

24 40 Torque converter

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Torque converter to flywheel	F39 / F45 / F46 / F48 / F49 / AISINF22AW	M10	Replace twist nuts. (Remove any adhesive residue from the threads)	56 Nm

2440 Overview of tightening torques

Torque converter to flywheel		
M10	Tightening torque	56Nm
Replace nuts.		
Remove any adhesive residue from the threads.		

24 51 External shift linkage

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Bolt to sliding piece, gearshift	F45/F46 / F52 / F48 AISINF21FT / AISINF22AW			13 Nm

24 61 Control unit

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ EGS control unit to transmission	ASINF21FT / ASINF22AW	M8		25 Nm
2AZ Lever to EGS control unit	ASINF21FT / ASINF22AW	M8		15 Nm

24 operating fluid overview

Transmission oil

Automatic transmission fluid ATF D II	1 l, Can	81229400272
	60 l, Barrel	81229400275

Transmission oil

Automatic transmission fluid ATF D VI	1 l, Can	83222167718
	5 l, Barrel	83222167720

Transmission oil

Automatic transmission fluid ATF 1	1 l, Can	83222305395
	5 l, Can	83222344588

Transmission oil

Automatic transmission fluid ATF 4	1 l, Bottle	83222344206
	20 l, Barrel	83229407807

Transmission oil

Automatic transmission fluid ATF 5	1 l, Bottle	83222344207
	20 l, Barrel	83220442817

Transmission oil

Automatic transmission fluid ATF 6	1 l, Bottle	83222355599
	20 l, Barrel	83222355601

Transmission oil

Automatic transmission fluid JWS 3309	1 l, Bottle	83227542290
---------------------------------------	----------------	-------------

Transmission oil

Automatic transmission fluid ATF 3+	1 l, Bottle	83222289720
-------------------------------------	----------------	-------------

Transmission oil

Automatic transmission fluid ATF 33 * TU = Trade Unit. TU numbers cannot be ordered!	20 l, Barrel	83220403580
---	-----------------	-------------

For invoicing purposes only.	1000 ml, TU*	83220406574
Transmission oil		
Automatic transmission fluid ATF D III * TU = Trade Unit. TU numbers cannot be ordered! For invoicing purposes only.	1 l, Can	83229407858
	1000 ml, TU*	83229407860
Transmission oil		
Automatic transmission fluid ATF 2 * TU = Trade Unit. TU numbers cannot be ordered! For invoicing purposes only.	1 l, Can	83222305396
	20 l, Barrel	83220142516
	1000 ml, TU*	83220144137