

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

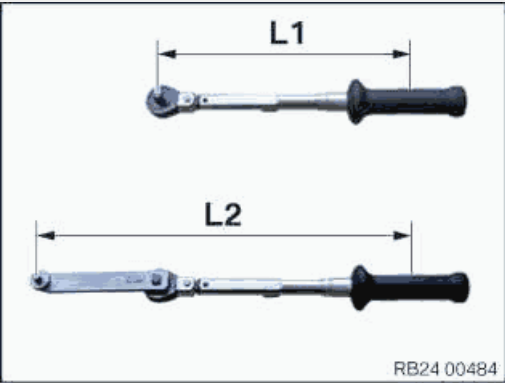
	Type	Thread	Tightening specifications	Torque
1AZ Transmission to engine	F39 / F45/F52_AISIN F21FT	M12		66 Nm
		M8		19 Nm
2AZ Starter motor cover to transmission	F45_PHEV / F49_PHEV	M8		19 Nm
3AZ Transmission oil pump to transmission	F45_PHEV / F49_PHEV	M8		24 Nm

2400 Overview of tightening torques

Ground strap to transmission		
M8	Tightening torque	19Nm
Oil filler plug to transmission housing		
M14 Renew the sealing ring.	Tightening torque	45Nm
Overflow screw in oil drain plug		
M6 Renew the sealing ring.		8Nm
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

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	

Transmission oil cooler to transmission housing

M8	Tightening torque	21Nm
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24 22 Planetary gear drive

Tightening Torques

	Type	thread	tightening specification	Torque
1AZ Brake coupling D/G on gear box housing	A5S 310Z / A5S 560Z	M10	Insert all screws until contact is made with screw head in each case center bolt both outer screws center bolt both outer screws both outer screws	30 Nm 15 Nm 63 Nm 30 Nm 63 Nm

24 23 Shift Clutches

Tightening Torques

	Type	thread	tightening specification	Torque
1AZ Torx screws for F clutch on transmission case	4HP-22 / 4HP-24	M6		10 Nm
	/ A5SÂ 560Z	M8		23 Nm
2AZ Brake band adjusting screw	A 4 S 270 R / A 4 S 310 R	5/16"		5 Nm
3AZ Lock nut of brake band adjusting screw	A 4 S 270 R / A 4 S 310 R	5/16"		21 Nm

2430 Overview of tightening torques

Hydraulic shift unit to transmission			
M10		Tightening torque	10Nm
Lid, hydraulic shift unit to transmission			
M8 Renew screws.		Tightening torque	8Nm
Temperature sensor to hydraulic shift unit			
M6		Tightening torque	7Nm

24 34 Shift Valves, Parking Lock

Tightening Torques

	Type	thread	tightening specification	Torque
7AZ Pulse generator, output speed	A5S 325Z			6 Nm
8AZ Pulse generator, turbine speed	A5S 325Z			8 Nm
9AZ Plug	A5S 325Z			20 Nm

24 35 Wire Harness, Shift Elements and Sensor

Tightening Torques

	Type	thread	tightening specification	Torque
1AZ Transmission socket to case	4HP-22 EH / 4 HP-24EH / A5S 310Z	M26		12 Nm
	A4S 270R / A4S 310R	M26		14 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 52 Interior Shift Elements

Tightening Torques

	Type	Thread	Tightening specification	Torque
1AZ Shift segment to shaft	A4S 270R / A4S 310R			22 Nm
	A5S 300J	M14x1.5		35 Nm
2AZ Detent spring on shift unit	A4S 270R / A4S 310R	5/16"		25 Nm

2461 Overview of tightening torques

Control unit to transmission		
M8	Tightening torque	25Nm

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
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Transmission oil

Automatic transmission fluid ATF 3+	1 l, Bottle	83222289720
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Transmission oil

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