

12 23 Glow elements (B47/B37)

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Glow elements	B47/B37			13 Nm
2AZ Preheating control unit to holder	B47/B37	TS6x20		5 Nm

1223 Overview of tightening torques

Glow elements to cylinder head		
Glow element	Tightening torque	13Nm

12 31 Alternator with mounting

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Alternator to holder	B37/B38/ B46/B47/B48	M10x125 / M10x65		38 Nm
2AZ Air duct to vertical strut	B47			5 Nm
3AZ Vertical strut to deformation element	B47	M6		10 Nm

1231 Overview of tightening torques

Alternator to component carrier			
M10x75 / M10x125		Tightening torque	38Nm
Belt tensioner to alternator			
M8X30		Tightening torque	28Nm

12 52 Plug Connectors, Terminals

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Cable (terminal 50) to starter	B37/B38/ B46/B47/B48	M6		7,1 Nm
2AZ Positive battery cable to alternator	B37/B38/ B46/B47/B48	M8		19 Nm
3AZ Battery positive lead to starter	B37/B38/ B46/B47/B48	M8		13,4 Nm
4AZ Battery plus line holder to oil sump	B37/B38/ B46/B47/B48	M6		8 Nm
5AZ Battery terminal with IBS positive battery terminal / negative battery terminal	F45 / F46 / F48 / F49 / F52 / F39	M6		5 Nm
6AZ Positive battery cable to battery terminal	F45 / F46 / F48 / F49 / F52 / F39	M8		15,2 Nm

12 41 Starter motor with mounting

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Starter motor to transmission	B37/B38/B46/ B47/B48	M8x45		19 Nm

1241 Overview of tightening torques

Battery positive lead to starter			
M8		Tightening torque	13,5Nm
Positive battery cable to alternator			
M8		Tightening torque	19Nm
Special tool 2 365 488 to engine			
M8x60		Tightening torque	19Nm
Starter motor to transmission			
M8x60			19Nm
Starter motor to transmission			
M8x45		Tightening torque	19Nm

1242 Overview of tightening torques

Cover of remote positive terminal		
Screw	Tightening torque	2,6Nm
Positive battery cable to positive battery terminal		
M8	Tightening torque	15Nm
Positive battery connection point cover to engine compartment partition wall		
	Tightening torque	3Nm
Tension strut to spring strut dome/battery tray		
M8	Tightening torque	19Nm

1251 Overview of tightening torques

Ground cable to cylinder head			
M6x12		Tightening torque	8Nm
Wiring harness section on engine			
TS5x20		Tightening torque	3,5Nm
Wiring harness to cylinder head cover			
TS5x20		Tightening torque	3,5Nm

12 52 Plug Connectors, Terminals

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Cable (terminal 50) to starter	B37/B38/ B46/B47/B48	M6		7,1 Nm
2AZ Positive battery cable to alternator	B37/B38/ B46/B47/B48	M8		19 Nm
3AZ Battery positive lead to starter	B37/B38/ B46/B47/B48	M8		13,4 Nm
4AZ Battery plus line holder to oil sump	B37/B38/ B46/B47/B48	M6		8 Nm
5AZ Battery terminal with IBS positive battery terminal / negative battery terminal	F45 / F46 / F48 / F49 / F52 / F39	M6		5 Nm
6AZ Positive battery cable to battery terminal	F45 / F46 / F48 / F49 / F52 / F39	M8		15,2 Nm

1252 Overview of tightening torques

Battery positive lead to starter		
M8		13Nm
Bracket on cylinder head cover		
	Tightening torque	5Nm
Bracket to oil sump		
M6	Tightening torque	8Nm

12 61 Oil pressure, oil level indicator

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Oil level sensor to oil sump	B37/B38/B46/B47/B48	M6	Initial torque	2 Nm
			Final torque	8 Nm
2AZ Engine oil pressure switch	B37/B38/B46/B47/B48			20 Nm

1261 Overview of tightening torques

Oil level sensor to oil sump			
M6		Jointing torque	2Nm
		Tightening torque	8Nm
Oil pressure sensor on crankcase			
Sensor		Tightening torque	15Nm
Oil pressure switch to crankcase			
Sensor Replace oil pressure switch.		Tightening torque	22Nm

12 90 Electronics box
Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Equipment holder to battery tray	B37/B38/B46/B47/B48			19 Nm

1290 Overview of tightening torques

Battery carrier to body		
	Tightening torque	19Nm
Battery tray		
M8	Tightening torque	19Nm
Cover to electronics box		
RF5x26.5	Tightening torque	2,5Nm
Electronics box to battery tray		
M8X16	Tightening torque	15Nm