

41 14 Reinforcement plate

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Cap nut to reinforcement plate	All	M5		6 Nm

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41 14 Wheel arches

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Ground connection to body	F30 / F31 / F32 / F35 / F36	M6		8 Nm

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41 31 Roof

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Star screw to roof outer skin	F20 / F21 / F22 / F30 / F31 / F32 / F34 / F35 / F36 / F87 / F80	M10	20 Nm	

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41 33 Front apron

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Front panel, middle, on carrier support	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F80 / F82 / F83 / F87	M8 x 27		28 Nm

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4133 Overview of tightening torques

Cross connection to carrier support	
M8x27 screw	28Nm
Front panel, middle, on carrier support	
M8x27	28Nm

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41 34 Rear trim panel

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Ground/earth point to body	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F80 / F82 / F83	M6		8 Nm
2AZ Battery base to body	F33 / F83	M8		18 Nm
3AZ Bracket to body	F33 / F83	M8		18 Nm

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41 14 Reinforcement plate

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Cap nut to reinforcement plate	All	M5		6 Nm

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41 35 Side Panels

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Front side wall to body	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F80 / F82 / F83	M6x12		7,6 Nm

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41 51 Front door:

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Screw for hinge halves	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F80 / F82 / F83 / F87 / F52	M8 x 24		27 + 3 Nm
2AZ Door hinge to door	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F80 / F82 / F83 / F87 / F52	Countersunk screw, M10 x 28		40 Nm
3AZ Door hinge to body	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F80 / F82 / F83 / F87 / F52	Hexagon screw with taper, M12 x 36		66 Nm



41 52 Rear door

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Screw for hinge halves	F20 / F30 / F31 / F34 / F35 / F36 / F80 / F52	M8 x 24		20 Nm
2AZ Door hinge to door	F20 / F30 / F31 / F34 / F35 / F36 / F80 / F52	Countersunk screw, M10 x 28		40 Nm
3AZ Door hinge to body	F20 / F30 / F31 / F34 / F35 / F36 / F80 / F52	Hexagon screw with taper, M12 x 36		66 Nm



41 61 Engine compartment lid

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Bonnet to hinge	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F80 / F82 / F83 / F87 / F52	M8		18,5 Nm
2AZ Hinge to body	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F80 / F82 / F83 / F87 / F52	M8		18,5 Nm
Engine compartment lid with active pedestrian protection (from 03/2013)				
3AZ Lever to hinge, left	F22 / F23 / F32 / F33 / F34 / F36 / F80 / F82 / F83 / F87	M8		21 Nm
4AZ Lever to hinge, right	F22 / F23 / F32 / F33 / F34 / F36 / F80 / F82 / F83 / F87	M8	Attention! Left-hand threads.	21 + 2 Nm
8AZ Actuator to engine compartment lid hinge	F22 / F23 / F32 / F33 / F34 / F36 / F80 / F82 / F83 / F87	M6 x 16		7,6 Nm



41 62 Tailgate

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Tailgate to tailgate hinge	F20 / F21	M8x24		24 Nm
	F22 / F23 / F30 / F35 / F32 / F80 / F82 / F83 / F87 / F52	M8x18		18,5 Nm
	F31	M10x27		30 Nm
	F34	M6x23 screw		8 Nm
	F34	M10 nut		38 Nm
	F36	M10 screw	Replace screw + angle of rotation	56 Nm 90 ° ± 15°
2AZ Tailgate hinge to body	F20 / F21	Nut M8		24 Nm
	F22 / F23 / F30 / F32 / F33 / F35 / F80 / F82 / F83 / F87 / F52	M8x18		18,5 Nm
	F31	Nut M8		20 Nm
	F34 / F36	Nut M8		19 Nm
3AZ Earth cable to hinge	F20 / F21	M5 nut		4,4 Nm
4AZ Hinge in spraying position	F20 / F21	Nut M6		10 Nm
5AZ Hinge bolt	F30 / F35 / F32 / F80 / F82 / F52	Nut M8		18,5 Nm
6AZ Hinge mechanism to hinge	F31	M8x19 M8x14		18,5 Nm
7AZ Hinge support to body	F31	M8x20		28 Nm
8AZ Hinge support to hinge	F31	M8x11		28 Nm
9AZ Tailgate on retaining bracket	F33	M8x23		20 Nm
10AZ Retaining bracket to tailgate hinge	F33	M8x23		20 Nm
11AZ Rear spoiler mount to the tailgate	F82 GTS	M6	Renew screw.	6 Nm
12AZ Rear spoiler mount to rear wing	F82 GTS	M6		6 Nm
13AZ Rear wing side section to rear wing	F82 GTS	M5		4 Nm
14AZ Tailgate reinforcement to tailgate	F82 GTS	M6	Renew screw.	6 Nm



41 operating fluid overview

Adhesive

Body adhesive K1	195 ml	83190413015
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Adhesive

Body adhesive K2	2x290 ml	83192355849
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Expendable materials

Cavity preservation	1000 ml	83422457338
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Expendable materials

Thin-wall threaded insert M6		41002288195
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Expendable materials

Thin-wall threaded insert M8		41002361595
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Expendable materials

Helicoil thread insert	M12x30 mm	31 10 6 868 499
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Adhesive

Body adhesive K3	2x300 ml	83190417144
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Expendable materials

Betawipe 4800	10 ml	83192357707
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Expendable materials

Bonding base VP 206	30 ml	83199407777
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Expendable materials

Two-component metal filler plus	100+10 g	83192288329
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Expendable materials

Blind rivet N8	ø6,5 mm, Clamping area 6.8-8.8 mm	83192355998
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Expendable materials

Blind rivet N11 for CFRP connections	ø4,8 mm, Clamping area 2.2-4.7 mm	83197391057
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Expendable materials

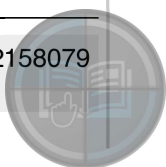
Blind rivet N12 for CFRP connections	ø4,8 mm, Clamping area	83197391046
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	4.5-7.5 mm	
Expendable materials		
Plastic nut	Ø18 mm	51161943122
Expendable materials		
Plastic nut	Ø22 mm	07147169847
Expendable materials		
Cavity sealant spray	400 ml	83422457337
Expendable materials		
Twist drill, high-strength	Ø6,8 mm, Length: 79 mm	83192359262
Expendable materials		
Twist drill, high-strength	Ø4,2 mm, Length: 66 mm	83192359263
Expendable materials		
ScotchBrite Multiflex A, very fine		51910402967
Expendable materials		
Adhesive tape		51717901759
Expendable materials		
Reinforcement plate, universal		41217275563
Expendable materials		
Sealant D1 (seam sealing)	310 ml	83422409985
Expendable materials		
Sealant D2 (seam sealing, spreadable)	310 ml	83422409986
Expendable materials		
Cavity foamHS1	400 ml	83429410694
Expendable materials		
Structural foamHS2	420 ml	83190007361
Expendable materials		
Cavity foam HS3 (2K polyurethane foam)	50 ml	83422288930
Expendable materials		



Aluminium adhesive tape (adhesive tape)	50 mm	11007769948
Expendable materials		
Repair rivet for T-bolt	Ø2,4 mm, Clamping area 0.8-2.5 mm	07148497787
Expendable materials		
Repair rivet for T-bolt	Ø2,4 mm, Clamping area 2.5-6.0 mm	07148497788
Expendable materials		
PrimerP2	50 ml, Gas cartridge	83190302555
Expendable materials		
PrimerP1	50 ml, Bottle	83190302556
Expendable materials		
Cavity sealing wax remover	500 ml, Spray bottle	83120390086
Expendable materials		
Screw EMC screw, SF Plus, M5x15		83190301639
Expendable materials		
Drill bit	Ø6,8 mm, Length: 150 mm	83192460425
Expendable materials		
Drill bit	Ø4,2 mm, Length: 120 mm	83192460424
Expendable materials		
Blind rivet N1 Ø 6.5 mm ; clamping area 2.8-4.8 mm		83190301414
Expendable materials		
Blind rivet N2 Ø 6.5 mm ; clamping area 4.8-6.8 mm		83190301419
Expendable materials		
Punch rivet N5 Ø 5 mm ; 5 mm long		83192158079
Expendable materials		



Expendable materials

Blind rivet N7 Ø 6.5 mm ; clamping area 1.5 - 3.5 mm		83192240352
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Expendable materials

Blind rivet N10 Dia. 6.5 mm; clamping area 10.8-12.8 mm		83199144282
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Expendable materials

Blind rivet N9 Dia. 6.5 mm; clamping area 8.8-10.8 mm		83197239634
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Adhesive

Body adhesive K5	50 ml	83192158654
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Expendable materials

Blind rivet N3 Dia. 4 mm; clamping area 1-3 mm		83190301421
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Expendable materials

Blind rivet N6 Dia. 4 mm; clamping area 3-5 mm		83192158655
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Adhesive

Aktivator -205	250 ml, Bottle	83190030155
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Adhesive

Body adhesive K5	195 ml	83192157298
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Adhesive

Body adhesive K4	50 ml, Cartridge	83192456697
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Expendable materials

Punch rivet N4 Ø 3 mm ; 4 mm long		83192457307
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51 11 Front bumper

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Bumper panel on air duct, top	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F48 / F49 / F80 / F82 / F83 / F87 / F45 / F46 / F48 / F49 / F52			4,6 Nm
2AZ Lock support to deformation element, top	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F80 / F82 / F83 / F87 / F45 / F46 / F48 / F49 / F52			11,8 Nm
3AZ Deformation element, top, to engine carrier	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F80 / F82 / F83 / F87 / F45 / F46 / F48 / F49 / F52	M12	Replace screws Jointing torque Angle of rotation	100 Nm 180 Å°
4AZ Support, top, to deformation element, top	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F80 / F82 / F83 / F87 / F45 / F46 / F48 / F49 / F52	M8	Replace screws	28 Nm
5AZ Deformation element, bottom, to deformation element, top	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F80 / F82 / F83 / F87	M6	Replace screws	11,8 Nm
6AZ Deformation element, bottom, to adapter plate, front axle carrier	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F80 / F82 / F83 / F87			19 Nm
	F45 / F46 / F48 / F49 / F52			11,8 Nm
7AZ V-support on deformation element/connection, top	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F80 / F82 / F83 / F87		Renew screw	19 Nm
	F48 / F49 / F52			11,8 Nm
8AZ Support for number plate on bumper	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F80 / F82 / F83 / F87			1 Nm
	F45 / F46 / F48 / F49			0,8 Nm
	F52			1,8 Nm
9AZ Number plate on bumper panel (thread repair)	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F80 / F82 / F83 / F87	M5		4,5 Nm



10AZ Carrier, bottom, to deformation element, bottom (without M Aerodynamic package) (with M Aerodynamics package)	F20 / F21 / F22 / F23 / F32 / F33 / F34 / F36 / F80 / F82 / F83 / F87	M6	Replace screws	11,8 Nm
	F45 / F46 / F48 / F49 / F52	M6x30	Replace screws	8 Nm
	F30 / F31 / F35	M6x45	Replace screws	11,8 Nm
	F30 / F31 / F35	M6x50	Replace screws	8 Nm
11AZ Bumper panel on side wall	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F48 / F49 / F80 / F82 / F83 / F87			3 Nm
12AZ Cross member on top air duct	F20 / F21 / F22 / F23			4,6 Nm
13AZ Air duct on top cross connection	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F80 / F82 / F83 / F87			5 Nm
	F48 / F49			6 Nm
14AZ Cross connection on support	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F80 / F82 / F83 / F87			11,8 Nm
15AZ Air duct to deformation element top/bottom	F45 / F46 / F48 / F49 / F52			6 Nm
16AZ Bumper panel on side wall	F48 / F49			3 Nm
17AZ Bumper trim, lower	F48 / F49			2,5 Nm
18AZ Support to U-strut	F52			11,8 Nm



5111 Overview of tightening torques

Air duct to centre front panel		
		5Nm
Air duct to cross connection		
Screw		5Nm
Bracing strut to deformation element/cross connection		
Screw	Renew screw.	19Nm
Centre front panel to support		
		11,8Nm
Cross connection on support		
Screw		11,8Nm
Support to centre front panel		
Renew screws.		19Nm



51 12 Rear bumper

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Support to body	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F80 / F82 / F83 / F87 / F45 / F46 / F48 / F49 / F52		Replace screws/nuts	108 Nm
2AZ Guide, middle, to body	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F80 / F82 / F83 / F87 / F45 / F46 / F48 / F49 / F52	Nut		4,6 Nm
3AZ Guide, side, to body	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F80 / F82 / F83 / F87 / F45 / F46 / F48 / F49 / F52	Nut		4,6 Nm
		Screw		2,6 Nm
4AZ Bumper panel on fixture, lateral	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F80 / F82 / F83 / F87 / F45 / F46 / F48 / F49 / F52			2,6 Nm
5AZ Bumper panel to centre/rear light housing guide	F30 / F31 / F32 / F33 / F34 / F35 / F36 / F80 / F82 / F83 / F87 / F45 / F46 / F48 / F49 / F52			2,6 Nm
6AZ Bumper panel to bottom reinforcement	F30 / F31 / F32 / F33 / F34 / F35 / F36 / F80 / F82 / F83 / F87 / F45 / F46 / F48 / F49			2,6 Nm
7AZ Guide, middle, to heat shield	F45 / F46 / F48 / F49	Screw		2,5 Nm
8AZ Fixture for smart-opener on guide, centre	F52			2,6 Nm



51 16 Mirrors, Finishers, Ashtrays, Consoles

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Exterior mirror to front door	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F80 / F82 / F83 / F87	thread cutting		6 Nm
			new exterior mirror, initial screw connection	8 Nm
2AZ Glove box to instrument panel	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F80 / F82 / F83 / F87			1,8 Nm
			Side screw	5 Nm
3AZ Centre console holder on tunnel	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F80 / F82 / F83 / F87			4,6 Nm
4AZ Centre console to instrument panel	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F80 / F82 / F83 / F87			1,8 Nm
5AZ Retaining ring to exterior mirror	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F80 / F82 / F83 / F87			1,5 Nm
6AZ Mirror electronics on exterior mirror	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F80 / F82 / F83 / F87			1,1 Nm
7AZ Drive on exterior mirror	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F80 / F82 / F83 / F87			1,6 Nm
8AZ Housing to exterior mirror	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F80 / F82 / F83 / F87			1,1 Nm



51 21 Front Door Locks

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Door lock to front door	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F35 / F80 / F82 / F83 / F87 / F45 / F46 / F48 / F49 / F52			8,8 Nm
	F34 / F36			8,5 Nm
2AZ Lock striker to body	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F80 / F82 / F83 / F87 / F45 / F46 / F48 / F49 / F52			21 Nm
3AZ Door stop to pillar	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F80 / F82 / F83 / F87 / F45 / F46 / F48 / F49 / F52			28 Nm
5AZ Door stop to inner door panel	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F35 / F80 / F82 / F83 / F87 / F45 / F46 / F48 / F49 / F52	M8	Renew screws.	11,8 Nm
	F34 / F36		Renew screws.	9,8 Nm



51 22 Door locks, rear

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Door lock to rear door	F20 / F30 / F31 / F35 / F80			9,4 Nm
	F34 / F36			8,5 Nm
	F45 / F46 / F48 / F49 / F52			8,8 Nm
2AZ Lock striker to body	F20 / F30 / F31 / F34 / F35 / F36 / F80 / F45 / F46 / F48 / F49 / F52			21 Nm
3AZ Door stop to pillar	F20 / F30 / F31 / F34 / F35 / F36 / F80 / F45 / F46 / F48 / F49 / F52			28 Nm
5AZ Door stop to rear door	F20 / F30 / F31 / F35 / F80 / F45 / F46 / F48 / F49 / F52		Replace screws	11,8 Nm
	F34 / F36		Replace screws	9,8 Nm
6AZ Outer door handle to door	F45 / F46 / F48 / F49 / F52			3,0 Nm



51 23 Engine compartment lid catch

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Engine compartment lock to lock support	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F80 / F82 / F83 / F87			11,8 Nm

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5123 Overview of tightening torques

Bonnet lock to cross connection	
Screw	11,8Nm
Front lock support to support	
	11,8Nm

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51 24 Tailgate catch

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Rear lid lock to tailgate/body	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F34 / F35 / F36 / F80 / F82 / F87			20 Nm
	F33 / F83	M6x16		10 Nm
	F45 / F46 / F48 / F49 / F52			19 Nm
2AZ Striker to tailgate/body	F20 / F21 / F22 / F23 / F87			20 Nm
	F30 / F32 / F33 / F35 / F80 / F82 / F83	M6		10 Nm
	F31 / F34 / F36	M8x20		18,5 Nm
	F45 / F46 / F48 / F49 / F52			19 Nm
3AZ Emblem operation to holder	F20 / F21			7,6 Nm
4AZ Tailgate lock holder to body	F34 / F36			19,5 Nm



51 33 Power windows, front

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Flat motor to power window regulator	F20 / F21 / F22 / F23 / F30 / F31 / F35 / F80 / F45 / F46 / F87			6 Nm
	F32 / F33 / F34 / F36 / F82 / F83			4,5 Nm
2AZ Window regulator to door	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F80 / F82 / F83 / F87 / F45 / F46 / F48 / F49 / F52			9,5 Nm
3AZ Door window glass to power window regulator	F21 / F22 / F23 / F32 / F33 / F34 / F36 / F82 / F83 / F87		Multipoint screw	10 Nm
			With special toolÂ and torque wrench (long lever arm)	8 Nm
4AZ Trim, B-pillar, to body	F34 / F36			2 Nm
5AZ Front side window to body	F45 / F46			4,5 Nm
6AZ Trim, B-pillar to door	F48 / F49 / F52			2,3 Nm



5133 Overview of tightening torques

Flat motor on power windows	
	6Nm
Power window on door	
	9,5Nm

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51 35 Power windows, rear

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Flat motor to power window regulator	F20 / F30 / F31 / F35 / F54 / F55 / F80			9,5 Nm
	F34 / F36			4,5 Nm
	F45 / F46			6 Nm
2AZ Window regulator to door	F20 / F30 / F31 / F34 / F35 / F36 / F45 / F46 / F48 / F49 / F52 / F80			9,5 Nm
3AZ Door window glass to power window regulator	F34 / F36		Multipoint screw	10 Nm
			With special tool 51 3 240 and torque wrench (long lever arm)	8 Nm
4AZ Mounting plate to door	F36			8 Nm
5AZ Fixed side window	F46 / F48 / F49			2,3 Nm
Fixed side window glass top	F52			2,5 Nm
Fixed side window glass bottom	F52			7,6 Nm



5135 Overview of tightening torques

Flat motor to rear power window	
	9,5Nm
Power window to rear door	
	9,5Nm

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51 41 Front door trim panel with armrests

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Door trim panel to front door	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F80 / F82 / F83 / F87			2,6 Nm
2AZ Door opener to door trim panel	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F80 / F82 / F83 / F87			2,2 Nm
3AZ Door handle to door trim panel	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F80 / F82 / F83 / F87			2,2 Nm
4AZ Armrest to door trim panel	F20 / F21 / F22 / F23 / F34 / F36 / F87			2 Nm
	F30 / F31 / F32 / F33 / F35 / F80 / F82 / F83			1,6 Nm
5AZ Pull strap on door	F82 GTS		Insert screw with Loctite 243.	15 Nm



5141 Overview of tightening torques

Door trim panel to front door	
	2,6Nm
Door trim panel to rear door	
	2,6Nm

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51 42 Rear door trim panel with armrests

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Door trim panel to rear door	F20 / F30 / F31 / F34 / F35 / F36 / F80			2,6 Nm
2AZ Door opener to door trim panel	F20 / F30 / F31 / F34 / F35 / F80			2,2 Nm
3AZ Door handle to door trim panel	F20 / F30 / F31 / F34 / F35 / F80			2,2 Nm
4AZ Armrest to door trim panel	F20 / F34			2,2 Nm
	F30 / F31 / F35 / F80			1,6 Nm

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51 45 Trim, instrument trim panel

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Support for instrument panel to bulkhead cross member	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F80 / F82 / F83 / F87	M8		21 Nm
2AZ Support for dashboard to A-pillar	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F80 / F82 / F83 / F87	M8		21 Nm
3AZ Holder for tunnel support	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F80 / F82 / F83 / F87	M8		21 Nm
4AZ Support for dashboard on bulkhead (in engine compartment)	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F80 / F82 / F83 / F87	M8		21 Nm
5AZ Heating and air-conditioning unit on support for dashboard	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F80 / F82 / F83 / F87	M6		8 Nm
6AZ Retaining bracket on support for dashboard	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F80 / F82 / F83 / F87	M6		8 Nm
7AZ Dashboard to support	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F80 / F82 / F83 / F87			2,4 Nm
8AZ Trim panel, pedal mechanism on support	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F80 / F82 / F83 / F87			4.6 Nm



9AZ Dashboard trim panel at bottom on support	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F80 / F82 / F83 / F87			4.6 Nm
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5145 Overview of tightening torques

Dashboard trim panel at bottom on support	
	4,6Nm
Trim panel for the pedal mechanism on the support for the instrument panel	
	4,6Nm

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51 47 Floor-luggage compartment-engine compartment trim panel

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Lashing eye to body	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F45 / F46 / F48 / F49 / F80 / F82 / F83 / F87			19 Nm
2AZ Fitting, load area net to body (roof)	F20 / F21			6 Nm
	F31	M6 M8		7,6 Nm 15 Nm
3AZ Holder, roller cover for luggage compartment/load area net to body (luggage compartment)	F31	M8		15 Nm
4AZ Cover, mounting load area net	F31			2,6 Nm
5AZ Lashing rail to side member	F34			19 Nm
6AZ Pin (from luggage compartment wheel arch trim panel) to side member	F48 / F49			1 Nm
7AZ Luggage compartment well to side of insert	F48 / F49			1 Nm



51 46 Storage shelf trim panel, roller sunblind

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Rear parcel shelf to body	F01 / F02 / F03 / F04 / F06 / F10 / F18			2,5 Nm
2AZ Roller sun blind with rear parcel shelf to body	F01 / F02 / F03 / F04 / F06 / F10 / F13 / F18			3,5 Nm
	F30 / F32 / F35 / F80 / F82			2,5 Nm



51 47 Floor-luggage compartment-engine compartment trim panel

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Lashing eye to body	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F45 / F46 / F48 / F49 / F80 / F82 / F83 / F87			19 Nm
2AZ Fitting, load area net to body (roof)	F20 / F21			6 Nm
	F31	M6 M8		7,6 Nm 15 Nm
3AZ Holder, roller cover for luggage compartment/load area net to body (luggage compartment)	F31	M8		15 Nm
4AZ Cover, mounting load area net	F31			2,6 Nm
5AZ Lashing rail to side member	F34			19 Nm
6AZ Pin (from luggage compartment wheel arch trim panel) to side member	F48 / F49			1 Nm
7AZ Luggage compartment well to side of insert	F48 / F49			1 Nm



51 75 Underbody panelling

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Underbody panelling on body	F-series	Bolt, non-metric thread		3 Nm
		Screw M6		8,8 Nm
		Nut		2.5 Nm
2AZ Wheel arch cover to body	F-series	Screw		3 Nm
		Nut		2,6 Nm
3AZ Underbody protection front	F18 National-market version	M8x33	Replace screw	28 Nm
		M10x35	Replace screw	28 Nm



5147 Overview of tightening torques

Oddments tray on body

Plastic nut	3Nm
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Underbody protection front

Screw not metric thread	3Nm
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Screw M6	8,8Nm
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Nut	2,5Nm
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Underbody protection/underbody panelling/heat insulation

Screw not metric thread	3Nm
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Screw M6	8,8Nm
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Nut	2,5Nm
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51 61 Reinforcement, body

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Suspension cross brace to body	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F87	M10x25	Renew screws. Jointing torque Angle of rotation	56 Nm 90 °
2AZ Rear trailing link	F31 / F34 / F36	M10	Renew screw.	56 Nm
		M12	Renew screw. Jointing torque Angle of rotation	100 Nm 90 °
3AZ Strut, front partition wall	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F87			19 Nm
4AZ Front end strut to body	F23 / F33 / F87			28 Nm
5AZ Diagonal strut to adapter plate	F33		Jointing torque	56 Nm
			Angle of rotation	90 °
6AZ Torsion strut to front axle support	F23 / F33	M10	Replace screws	
			Jointing torque Angle of rotation	56 Nm 45 °
7AZ Torsion strut to side member	F23 / F33	M12	Replace screws	
			Jointing torque Angle of rotation	100 Nm 90 °
8AZ Rear tension strut to cross member of luggage compartment floor	F33 / F23		Renew screw	56 Nm
9AZ Rear tension strut to support	F33 / F23		Renew screw.	
			Jointing torque Angle of rotation	100 Nm 90 °
10AZ Rear tension strut to side member	F33 / F23		Renew screw	
			Jointing torque Angle of rotation	100 Nm 90 °
11AZ Carbon brace on lock support	F80 / F82 / 83		Renew screw.	28 Nm
12AZ Carbon brace on strut brace	F80 / F82 / F83		Renew screw.	28 Nm
13AZ Cross-brace to spring strut dome	F80 / F82 / F83	M8		28 Nm
14AZ Cross-brace to side panel	F80 / F82 / F83	M10		34 Nm
15AZ Cross-brace to bulkhead	F80 / F82 / F83	M10x25	Renew screw.	
			Jointing torque	56 Nm



			Angle of rotation	90 °
16AZ	Cross-brace extension/additional strut to cross-brace	F80 / F82 / F83	M8	28 Nm
17AZ	Cross-brace extension to body	F80 / F82 / F83	M10	56 Nm
18AZ	Additional strut to cross-brace extension	F80 / F82 / F83	M8	28 Nm
19AZ	Torsion strut to front adapter plate	F23 / F33	M10	Renew screw. Jointing torque Angle of rotation
20AZ	Torsion strut to body	F23 / F33	M8	56 Nm 90 °
21AZ	Engine bulkhead, bottom to body	F20/F21	M8x18	19 Nm
22AZ	Rollover protection bar to body	F82 GTS	M8x16	19 Nm
23AZ	Rollover protection bar to body	F82 GTS	M10x30	38 Nm



5161 Overview of tightening torques

Tension strut to body

M10 x 25
Renew screws.

Jointing torque 56Nm

Angle of rotation 90°

Tension strut to body

M10
Renew screws.

Jointing torque 56Nm

Angle of rotation 90°

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5171 Overview of tightening torques

Connection carrier to body		
M8		28Nm
Engine bulkhead to body		
M8 x 18		19Nm
Engine bulkhead to bulkhead		
Sheet metal nut		2,6Nm
Partition wall attachment part to body		
M6 x 20		2,3Nm
Wheel arch cover		
Screw		3Nm
Plastic nut		2,6Nm



5175 Overview of tightening torques

Sound insulation to bulkhead upper part	
Screw	8,0Nm
Support to front axle support	
	3Nm
Underbody panelling on body	
Screw not metric	3Nm
Screw M6	8.8Nm
Nut	2.5Nm
Underbody protection / underbody panelling to body	
Screws do not have a metric thread	3Nm
Screw M6	8,8Nm
Nut	2,5Nm



51 operating fluid overview

Expendable materials

Yellow plastic adhesive tape		83199410979
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Expendable materials

Adhesive tape, double-sided		54112290978
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Expendable materials

Cutting cord		81432344272
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Expendable materials

Cleaning agent R1	100 ml, Bottle	83192211217
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Expendable materials

Cleaning agent R2	500 ml	83190417324
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Adhesive

Window glass adhesive Rest of World	300 ml, Cartridge	83192289286
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Adhesive

Window glass adhesive USA	300 ml, Cartridge	83192289181
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Adhesive

Window glass adhesive CHN	300 ml, Cartridge	83192180002
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