

2008 BMW Z4

ACCESSORIES & EQUIPMENT Body Equipment - Tightening Torques - Z4 (E85)

ACCESSORIES & EQUIPMENT**Body Equipment - Tightening Torques - Z4 (E85)****FRONT BUMPER****51 11 FRONT BUMPER****51 11 FRONT BUMPER TIGHTENING SPECIFICATION**

Application	Type	thread	tightening specification	Measure
1AZ Bumper to bracket	E32	M6		9 Nm
	E36	M8		22 Nm
	E34	M10		43 Nm
2AZ Bumper and bracket to impact absorber	E31	M10	Install bolts with bolt cement.	22 Nm
	E38 / E39 / E46	M10		41 Nm
	E36	M10	Install bolts with bolt cement.	55 Nm
	E32 / E34 / E30 / Mod. 88	M12		48 Nm
3AZ Impact absorber/bracket to body	E30 / E24			23 Nm
	E31 / E32 / E34 / E36 / E38 / E39	M6		9 Nm
	E32 / E34	M10		48 Nm
	E46	M8		20 Nm
4AZ Carrier to body	E46 / E65 / E66 / E67	M8		18 Nm
	E87 / E90 / E91	M8		20 Nm
	E60 / E61 / E63 / E64	M8		21.4 Nm
5AZ Carrier to deformation element	E85	M10		38 Nm
	E83	M8		28 Nm
6AZ Deformation element to body	E85	M8		19 Nm
	E83	M8		21.4 Nm
7AZ License plate to bumper	E60 / E63 / E64			1 Nm
8AZ License plate to bumper (thread repair)	E60 / E63 / E64	M5		4.5 Nm

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REAR BUMPER**51 12 REAR BUMPER****51 12 REAR BUMPER TIGHTENING SPECIFICATION**

Application	Type	thread	tightening specification	Measure
1AZ Bumper to carrier	E31	M10		40 Nm
	E32 / E34 / E36	M8		22 Nm
	E34	M10		42 Nm
2AZ Bumper / carrier to impact absorber	E36	M10	Install bolts with bolt cement.	42 Nm
	E38	M12		45 Nm
	E39	M10		45 Nm
	E46	M10		41 Nm
	E31 / E32 / E34 / E30 / Mod. 88	M12	v	48 Nm
	E53	M12		55 Nm
	E85 US			19 Nm
	E60 / E61 / E63 / E64	M10		36 Nm
3AZ Impact absorber / carrier to body	E30 / E24			23 Nm
	E31 / E32 / E34	M6		9 Nm
	E36 / E46	M8		22 Nm
	E39	M8		20 Nm
	E53	M8		24 Nm
	E65 / E66 / E67			38 Nm
	E85			19 Nm
	E60 / E61 / E63 / E64	M10		36 Nm
	E83	M12		71 Nm
	E87 / E90 / E91	M12		66 Nm
4AZ Bumper to side panel	E30			7 Nm
5AZ Bracket to side panel	E36 / E46			3 Nm
	E39			6 Nm
6AZ Holder, bottom, to body	E36			8.5 Nm
7AZ Screw for lower panel	E36			2.5 Nm

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8AZ Bumper on rear apron	E60	M6	Replace screw with sealing washer	2.5 Nm
9AZ Guide to side panel	E83			2 Nm
	E61 / E87			3 Nm
10AZ Guide to rear trim panel	E83 / E87			2.8 Nm
	E61			4.5 Nm

MIRROR, COVERS, ASHTRAY**51 16 MIRRORS, FINISHERS, ASHTRAYS, CONSOLES****51 16 MIRRORS, FINISHERS, ASHTRAYS, CONSOLES TIGHTENING SPECIFICATION**

Application	Type	Measure
1AZ Mirror to front door	E31 / E36 / Z3 / E38 / E39 / E46 / E52 / E53 / E60 / E61 / E63 / E64 / E65 / E66 / E67 / E83 / E85 / E87 / E90 / E91	6 Nm
Only for new rearview mirror (replacement) for initial screw connection (shaping of thread - cutting screws)	E46 / E53 / E60 / E61 / E63 / E64 / E65 / E66 / E67 / E83 / E85 / E87 / E90 / E91	8 Nm
2AZ Center console (plastic nut)	E30	5 Nm
3AZ Wooden finisher on carrier	E38	0.6 Nm
4AZ Wooden finisher on carrier	E38	0.8 Nm
5AZ Wooden finisher on carrier	E38	0.7 Nm
6AZ Cup holder, front, on function carrier	E38	1.3 Nm
7AZ Wooden finisher on cup holder, front	E38	0.5 Nm
8AZ Screw-in pin to wooden finisher of instrument panel and door panel	E46	0.3 Nm
9AZ Housing for rearview mirror to carrier	E46 M3 Coupe	1.3 Nm
	E60 M5 / E63 M6	0.7 Nm
	E85	1.1 Nm
10AZ Brush cable unit to function carrier	E65 / E66 / E67	0.5 +/- 0.1 Nm
11AZ Roller sun blind to function carrier	E65 / E66 / E67	0.5 +/- 0.1 Nm
12AZ Roller sun blind to brush cable unit	E65 / E66 / E67	1.2 +/- 0.2 Nm
13AZ Flap to storage box	E85	0.5 Nm

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14AZ Rearview mirror retaining ring on reinforcement plate	E60 M5 / E63 M6	1.1 Nm
15AZ Notch adapter to mirror base	E60 M5 / E63 M6	3.0 Nm

FRONT DOOR LOCKS HANDLE**51 21 FRONT DOOR LOCKS****51 21 FRONT DOOR LOCKS TIGHTENING SPECIFICATION**

Application	Type	tightening specification	Measure
1AZ Door lock to front door	E31 / E36	Install bolt with bolt cement.	9 Nm
	E46 / E53 / E87 / E90 / E91		9 Nm
	E60 / E61 / E63 / E64 / E65 / E66 / E67 / E85		8 Nm
	E83		10 Nm
2AZ Outside handle to front door	E31 / E36		10 Nm
3AZ Door striker to body	E24 / E30		24 Nm
	E31 / E32 / E34		28 Nm
	E60 / E61 / E63 / E64 / E65 / E66 / E67 / E83 / E85 / E87 / E90 / E91		19 Nm
4AZ Adjustment screw to door lock	E46		3 ⁺² Nm
5AZ Outside handle to lock actuator	E53		3.2 Nm
	E46 / E60 / E61 / E63 / E64 / E83		2 Nm
6AZ Inside door opener to front door	E46 / Saloon / Touring		4 Nm
	E46 / Compact		2.7 Nm
	E65 / E66 / E85		3 Nm
	E67		4 Nm
7AZ Lock actuator/front cover to front door	E60 / E61 / E63 / E64		2.5 Nm
8AZ Lock actuator/rear cover to front door	E60 / E61 / E63 / E64		3.3 Nm
9AZ Door retainer to A -pillar	E87 / E90 / E91		22 Nm

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10AZ Door retainer to door	E87 / E90 / E91	11.6 Nm
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REAR DOOR LOCKS HANDLE**51 22 REAR DOOR LOCKS****51 22 REAR DOOR LOCKS TIGHTENING SPECIFICATION**

Application	Type	tightening specification	Measure
1AZ Door lock to rear door	E36	Install bolt with bolt cement.	9 Nm
	E46 / E53 / E87 / E90 / E91		9 Nm
	E60 / E61 / E63 / E64 / E65 / E66 / E67 / E85		10 Nm
2AZ Outside handle to rear door	E36		10 Nm
3AZ Door striker to body	E32 / E34		24 Nm
	E60 / E61 / E63 / E64 / E65 / E66 / E67 / E85 / E87 / E90 / E91		19 Nm
4AZ Adjustment screw to door lock	E46		3 + 2 Nm
5AZ Outside handle to lock actuator	E53		3.2 Nm
	E46 / E60 / E61 / E63 / E64 / E83		2 Nm
6AZ Inside door opener to rear door	E46 / E67		4 Nm
	E65 / E66		3 Nm
	E87		7.5 Nm
7AZ Lock actuator/front cover to rear door	E60 / E61 / E63 / E64		2.5 Nm
8AZ Lock actuator/rear cover to rear door	E60 / E61 / E63 / E64		3.3 Nm
9AZ Side impact protection to rear door, top	E61		18.5 Nm
10AZ Door retainer to B-pillar	E87 / E90 / E91		22 Nm
11AZ Door retainer to door	E87 / E90 / E91		11.6 Nm

HOOD LATCH, LOCKS

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51 23 HOOD/BONNET LOCKS**51 23 HOOD/BONNET LOCKS TIGHTENING SPECIFICATION**

Application	Type	Measure
1AZ Retaining hook to hood/bonnet	E60 / E61 / E63 / E64 / E65 / E66 / E83 / E85 / E87 / E90 / E91	10 Nm
2AZ Lock to body	E60 / E61 / E63 / E64 / E65 / E66 / E83 / E87 / E90 / E91	10 Nm
	E85	8 +/- 1.2 Nm

FRONT MANUALLY OPERATE**51 32 FRONT DOOR WINDOWS****51 32 FRONT DOOR WINDOWS TIGHTENING SPECIFICATION**

Application	Type	Measure
1AZ Door window glass holder to roller guide	E31 / E36 / Coupe/Convertible	9 Nm
2AZ Door window glass to holder	E31 / E36 / Coupe/Convertible	6 Nm
	E38 / E39 / E46 / E60 / E61	8 Nm
	E85	9 Nm
	E63 / E64 / E65 / E66	10 Nm
3AZ Main stop to window regulator	E31 / E36	9 Nm
4AZ Window guide to body	E36	10 Nm
5AZ Window winder	E36	6 Nm

FRONT ELECTRICALLY OPERATE**51 33 POWER WINDOWS, FRONT****51 33 POWER WINDOWS (FRONT) TIGHTENING SPECIFICATION**

Application	Type	tightening specification	Measure
1AZ Motor to window regulator	E31 / E36 / E65 / E66		5 Nm
	E46 / E85		4.5 +/- 0.5 Nm
	E83		3 Nm
	E60 / E61 / E87 / E90		6 Nm
	E63 / E64		6 +/- 0.6 Nm
2AZ Window regulator to door	E38 / E39 / E60 / E61 / E65 / E66 / E83 / E85 / E87 / E90		8 Nm
	E46	Replace nut (self - locking)	9.5 Nm
	E63 / E64		9.5 Nm

3AZ Window regulator to door	E36	9 Nm
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FRONT DOOR TRIM PANEL

51 41 FRONT DOOR TRIM PANEL WITH ARMRESTS

51 41 FRONT DOOR TRIM PANEL WITH ARMRESTS TIGHTENING SPECIFICATION

Application	Type	Measure
1AZ Door trim panel to front door (screw under airbag sticker)	E46 / Convertible / Coupe	2.7 +/- 0.5 Nm
	E85 / E46 / Compact	4.2 +/- 0.8 Nm
	E60 / E61 / E65 / E66 / E67	8.0 Nm
	E83	8.2 Nm
2AZ Door trim panel to front door (screw to armrest or door handle)	E46 / Saloon / Touring	2.7 +/- 0.5 Nm
	E46 / Convertible / Coupe	3.0 +/- 0.5 Nm
	E87 / E46 / Compact	4.2 +/- 0.8 Nm
	E63 / E64 / E90 / E91	3.5 +/- 0.5 Nm
	E65 / E66 / E67	8.0 Nm
	E83	8.2 Nm
	E85	7.0 +/- 0.4 Nm
3AZ Armrest to door trim panel	E46 / Convertible / Coupe	2.5 +/- 0.5 Nm
	E87	2.0 +/- 0.4 Nm
4AZ Door trim panel to front door	E46 / Compact	1.1 +/-1 0.2 Nm
	E60 / E61	0.8 Nm
	E65 / E66 / E67	1.5 +/- 0.2 Nm
	E63 / E64	3.0 Nm
5AZ Wood/decorative strip to door trim	E65 / E66 / E67	1.2 +/- 0.2 Nm
	E60 / E61	0.4 Nm
6AZ Speaker frame to door trim	E65 / E66 / E67	0.5 +/- 0.2 Nm
7AZ Sheet metal nut	E65 / E66 / E67	1.0 +/- 0.2 Nm
8AZ Door handle to door trim panel	E85	0.5 +/- 0.1 Nm
	E87	2.0 +/- 0.4 Nm
9AZ Carrier to door trim panel	E60 / E61	7.0 Nm

LOOSE BODY PARTS

51 71 SEALS AND LOOSE BODY PARTS

51 71 SEALS AND LOOSE BODY PARTS TIGHTENING SPECIFICATION

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Application	Type	thread	tightening specification	Measure
1AZ Front spoiler to bumper	E36 / M3			3 Nm
2AZ Rear spoiler	E34 / Touring	M6		5 Nm
	E36 / M3	M6		7 Nm
	E36 / Z3 Coupe, M Coupe	M6		6 Nm
	E53 / E91			3 Nm
	E83	M6		10 Nm
	E61			8 Nm
3AZ Reinforcement plate to front axle support/engine carrier	E46 without AWD / E85		Replace screws	
			Jointing torque	59 Nm
			Torque angle	90 °
4AZ Tension strut in engine compartment	E85		Jointing torque	30 Nm
			Torque angle	90 °
	E60 / E61 / E63 / E64	M8	Screw connection again	20 Nm
			New component / initial screw connection	25.5 Nm
	E83	M8		19 Nm
	E90 / E91	M10	Jointing torque	56 Nm
			Torque angle	90 °
	E90 / E91	M12 x 1.5	Jointing torque	100 Nm
			Torque angle	90 °
5AZ Reinforcing plate/tension strut to rear axle	E85 / E46 / Convertible	M10	Replace screws	
			Jointing torque	59 Nm
			Torque angle	90 °
6AZ Reinforcing plate to rear axle	E85	M8		21 Nm
7AZ Tension strut to rear axle	E46 / Convertible	M8		24 Nm
	E60 M5 / E63 M6	M8		21.4 +/- 3 Nm
	E61 / E64 / E91	M12	Replace screws	
			Jointing torque	100 Nm
			Torque angle	90 °
	E61 / E64	M8	Nut	19 Nm

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	E91	M10		50 Nm
	E85		Replace nut	24 Nm
8AZ Cross-member, A-pillar, to mounting	E52	M8		18.5 Nm
9AZ Cross-member, A-pillar, middle	E52	M8		10 Nm
10AZ Strut to cardan tunnel	E52	M8		18.5 Nm
11AZ Cross-member, A-pillar, bottom, to mounting	E52	M6		11.2 Nm
12AZ Support tube to support, steering column upper section	E65 / E66 / E67	M8		21 Nm
	E87 / E90 / E91	M8		19 Nm
13AZ Support tube to body	E85	M8		19.5 Nm
14AZ Heater to support tube	E85 / E87 / E90 / E91			4 Nm
15AZ Support tube to body	E60 / E61 / E63 / E64 / E87 / E90 / E91	M8		21 Nm
16AZ Take-up, cover, sill to body	E83	M8		5 Nm
17AZ Structural tension strut, front	E61 / E64	M12	Replace screws	
			Jointing torque	100 Nm
			Torque angle	90 °
	E61 / E64	M6	Replace screws	
			Jointing torque	8 Nm
18AZ Cross strut/rear	E61 / E64	M10	Nuts	41 Nm
			Screws	59 Nm
19AZ Bracket, handle, to body	E87 / E90 / E91			3.5 Nm
20AZ Multifunction pan to body	E87 / E90 / E91	M6		8 Nm
	E60 M5			3 Nm
21AZ Bracket, suspension, dividing net to body	E91			11 Nm