

2000 BMW X5

2000-03 ACCESSORIES & EQUIPMENT Body Equipment - Tightening Torques - X5 (4.4L)

2000-03 ACCESSORIES & EQUIPMENT**Body Equipment - Tightening Torques - X5 (4.4L)****REAR BUMPER****51 12 REAR BUMPER****51 12 REAR BUMPER TIGHTENING SPECIFICATION**

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

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panel				
	E39			6 N.m
6AZ Holder, bottom, to body	E36			8.5 N.m
7AZ Screw for lower panel	E36			2.5 N.m
8AZ Bumper on rear apron	E60	M6	Replace screw with sealing washer	2.5 N.m
9AZ Guide to side panel	E83			2 N.m
	E61 / E87			3 N.m
10AZ Guide to rear trim panel	E83 / E87			2.8 N.m
	E61			4.5 N.m

TRIM, COVERS, HANDLE TRIM

51 13 TRIM PARTS, COVERS, HANDLE TRIM

51 13 TRIM PARTS, COVERS, HANDLE TRIM TIGHTENING SPECIFICATION

	Type	Thread	Tightening specification	Measure
1AZ Bracket, roof luggage rack on body	Z3 and M Coupe / E39 / E46	M10		20 N.m
2AZ Water drain to body (plastic nut)	E46			1 N.m
Water drain to body (metal nut or rivet nut)	E46			1.8 N.m
3AZ Roof railing to body	E39		Center, front, rear	24 N.m
	E61	M8		16 N.m
			settling time	15 min
			Check	16 N.m
	E83	M8	Front	
			Jointing torque	21 N.m
			Release nut after settling time	15 min
			Jointing torque	21 N.m
			Torque angle	120 +/- 10°
	E83	M8	Centre, rear	21 N.m
			settling time	15 min

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			Check	21 N.m
	E91			25 N.m
4AZ Handle strip to rear lid	E39 / Touring			3 N.m
	E46 / E53			2.5 N.m
	E83			1.8 N.m
5AZ Cowl panel cover to body	E60 / E61 / E63 / E64			2.5 N.m
6AZ Centre trim to rear lid	E65 / E66 / E67	M8		2.5 N.m
7AZ Trim to hood/bonnet	E90 / E91			2 N.m

MIRRORS/COVERS/ASHTRAYS/SHELVES/TRAYS**51 16 MIRRORS, FINISHERS, ASHTRAYS, CONSOLES****51 16 MIRRORS, FINISHERS, ASHTRAYS, CONSOLES TIGHTENING SPECIFICATION**

	Type	Thread	Tightening specification	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 N.m
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 N.m
2AZ Center console (plastic nut)	E30			5 N.m
3AZ Wooden finisher on carrier	E38			0.6 N.m
4AZ Wooden finisher on carrier	E38			0.8 N.m
5AZ Wooden finisher on carrier	E38			0.7 N.m
6AZ Cup holder, front, on function carrier	E38			1.3 N.m
7AZ Wooden finisher on cup holder, front	E38			0.5 N.m
8AZ Screw-in pin to wooden finisher of instrument panel and door panel	E46			0.3 N.m
9AZ Housing for rearview mirror to carrier	E46 M3 Coupe			1.3 N.m
	E60 M5 / E63 M6			0.7 N.m
	E85			1.1 N.m

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10AZ Brush cable unit to function carrier	E65 / E66 / E67			0.5 +/-0.1 N.m
11AZ Roller sun blind to function carrier	E65 / E66 / E67			0.5 +/-0.1 N.m
12AZ Roller sun blind to brush cable unit	E65 / E66 / E67			1.2 +/-0.2 N.m
13AZ Flap to storage box	E85			0.5 N.m
14AZ Rearview mirror retaining ring on reinforcement plate	E60 M5 / E63 M6			1.1 N.m
15AZ Notch adapter to mirror base	E60 M5 / E63 M6			3.0 N.m

FRONT DOOR LOCKS HANDLES, FITTINGS**51 21 FRONT DOOR LOCKS****51 21 FRONT DOOR LOCKS TIGHTENING SPECIFICATION**

	Type	Thread	Tightening specification	Measure
1AZ Door lock to front door	E31 / E36		Install bolt with bolt cement.	9 N.m
	E46 / E53 / E87 / E90 / E91			9 N.m
	E60 / E61 / E63 / E64 / E65 / E66 / E67 / E85			8 N.m
	E83			10 N.m
2AZ Outside handle to front door	E31 / E36			10 N.m
3AZ Door striker to body	E24 / E30			24 N.m
	E31 / E32 / E34			28 N.m
	E60 / E61 / E63 / E64 / E65 / E66 / E67 / E83 / E85 / E87 / E90 / E91			19 N.m
4AZ Adjustment screw to door lock	E46			3 ⁺² N.m
5AZ Outside handle to lock actuator	E53			3.2 N.m
	E46 / E60 / E61 / E63 / E64 / E83			2 N.m
6AZ Inside door opener to front door	E46 / Saloon / Touring			4 N.m
	E46 / Compact			2.7 N.m

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	E65 / E66 / E85			3 N.m
	E67			4 N.m
7AZ Lock actuator/front cover to front door	E60 / E61 / E63 / E64			2.5 N.m
8AZ Lock actuator/rear cover to front door	E60 / E61 / E63 / E64			3.3 N.m
9AZ Door retainer to A-pillar	E85			24 N.m
	E87 / E90 / E91			22 N.m
10AZ Door retainer to door	E85			10 N.m
	E87 / E90 / E91			12 N.m

REAR DOOR LOCKS, HANDLES, FITTINGS**51 22 REAR DOOR LOCKS****51 22 REAR DOOR LOCKS TIGHTENING SPECIFICATION**

	Type	Thread	Tightening specification	Measure
1 AZ Door lock to rear door	E36		Install bolt with bolt cement.	9 N.m
	E46 / E53 / E87 / E90 / E91			9 N.m
	E60 / E61 / E63 / E64 / E65 / E66 / E67 / E85			10 N.m
2AZ Outside handle to rear door	E36			10 N.m
3AZ Door striker to body	E32 / E34			24 N.m
	E60 / E61 / E63 / E64 / E65 / E66 / E67 / E85 / E87 / E90 / E91			19 N.m
4AZ Adjustment screw to door lock	E46			3 N.m
5AZ Outside handle to lock actuator	E53			3.2 N.m
	E46 / E60 / E61 / E63 / E64 / E83			2 N.m
6AZ Inside door	E46 / E67			4 N.m

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opener to rear door				
	E65 / E66			3 N.m
	E87			7.5 N.m
7AZ Lock actuator/front cover to rear door	E60 / E61 / E63 / E64			2.5 N.m
8AZ Lock actuator/rear cover to rear door	E60 / E61 / E63 / E64			3.3 N.m
9AZ Side impact protection to rear door, top	E60 / E61			19 N.m
10AZ Door retainer to B-pillar	E87 / E90 / E91			22 N.m
11 AZ Door retainer to door	E87 / E90 / E91			12 N.m

SIDE COVERING WITH ARMRESTS**51 43 SIDE TRIM PANEL WITH ARMRESTS****51 43 SIDE TRIM PANEL WITH ARMRESTS TIGHTENING SPECIFICATION**

	Type	Thread	Tightening specification	Measure
1AZ Trim, rear roof pillar (C-pillar) on body	E38 / E60			3.0 N.m
	E61 / E65 / E66 / E67			4.0 N.m
	E83			2.0 N.m
	E87 / E90 / E91			2.5 N.m
2AZ Trim, front roof pillar (A-pillar) on body	E46			1.8 ^{+0.4} N.m
	E60 / E61 / E63 / E64 / E87 / E90 / E91			2.5 N.m
	E83			2.0 N.m
	E65 / E66 / E67			4.5 N.m
3AZ Side trim panel to body	E46 / Coupe			3 +/- 0.5 N.m
	E46 / Compact			4.2 +/-0.8 N.m
4AZ Armrest to side trim panel	E46 / Coupe			2.5 +/- 0.5 N.m

LOOSE BODY PARTS

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51 71 SEALS AND LOOSE BODY PARTS

51 71 SEALS AND LOOSE BODY PARTS TIGHTENING SPECIFICATION

	Type	Thread	Tightening specification	Measure
1 AZ Front spoiler to bumper	E36 / M3			3 N.m
2AZ Rear spoiler	E34 / Touring, E36 / Z3 Coupe / M Coupe	M6		6 N.m
	E36 / M3	M6		7 N.m
	E53			3 N.m
	E83	M6		10 N.m
	E61			8 N.m
	E91		Screw	3 N.m
			Nut	7 N.m
3AZ Reinforcement plate to front axle support/engine carrier	E46 without AWD / E85		Replace screws	
			Jointing torque	59 N.m
			Torque angle	90°
4AZ Tension strut in engine compartment	E85		Jointing torque	30 N.m
			Torque angle	90°
	E60 / E61 / E63 / E64	M8	Screw connection again	20 N.m
			New component / initial screw connection	25 N.m
	E83	M8		19 N.m
	E87, E90, E91	M10	Replace screws	
			Jointing torque	40 N.m
			Torque angle	60°
	E87, E90, E91	M12x1.5	Replace screws	
			Jointing torque	100 N.m
			Torque angle	90°
5AZ Reinforcing plate/ tension strut to rear axle	E85 / E46 / Convertible	M10	Replace screws	
			Jointing torque	59 N.m
			Torque angle	90°
6AZ Reinforcing plate to rear axle	E85	M8		21 N.m

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7AZ Tension strut to rear axle	E46/ Convertible	M8		24 N.m
	E60 M5 / E63 M6	M8		21 N.m
	E61 / E64 / E91	M12	Replace screws	
			Jointing torque	100 N.m
			Torque angle	90°
	E61 / E64	M8	Nut	19 N.m
	E91	M10		50 N.m
	E85		Replace nut	24 N.m
8AZ Cross-member, A-pillar, to mounting	E52	M8		19 N.m
9AZ Cross-member, A-pillar, middle	E52	M8		10 N.m
10AZ Strut to cardan tunnel	E52	M8		19 N.m
11AZ Cross-member, A-pillar, bottom, to mounting	E52	M6		11 N.m
12AZ Support tube to support, steering column upper section	E65 / E66 / E67	M8		21 N.m
	E87 / E90 / E91	M8		19 N.m
13AZ Support tube to body	E85	M8		19 N.m
14AZ Heater to support tube	E85 / E87 / E90 / E91			4 N.m
15AZ Support tube to body	E60 / E61 / E63 / E64 / E87 / E90 / E91	M8		21 N.m
16AZ Take-up, cover, sill to body	E83	M8		5 N.m
17AZ Structural tension strut, front	E61 / E64	M12	Replace screws	
			Jointing torque	100 N.m
			Torque angle	90°
	E61 / E64	M6	Replace screws	
			Jointing torque	8 N.m
18AZ Cross strut/rear	E61 / E64	M10	Nuts	41 N.m
			Screws	59 N.m
19AZ Bracket, handle, to body	E87 / E90 / E91			3.5 N.m
20AZ Multifunction pan to body	E87 / E90 / E91			8 N.m

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	E60 / M5			3 N.m
21 AZ Bracket, suspension, dividing net to body	E91			11 N.m
22AZ Protective mat/protective cover to body	E60 / Security	M6	Screw	10 N.m