

BRAKES

Brakes - Tightening Torques - X6

BRAKE TESTING

34 00 TESTING AND BLEEDING BRAKES

TESTING AND BLEEDING BRAKES-TIGHTENING TORQUE SPECIFICATIONS

	Type	Thread	Tightening specification	Measure
1AZ Vent valve	E70, E71	wrench size 11 mm		12-18 Nm

FRONT BRAKES

34 11 FRONT BRAKE

FRONT BRAKE-TIGHTENING TORQUE SPECIFICATIONS

	Type	Thread	Tightening specification	Measure
1AZ Brake disc to wheel hub	E70, E71	M8	Replace screws	16 Nm
2AZ Brake anchor plate to swivel bearing	E70, E71	M12x1.5	Replace self-locking or microencapsulated screws	110 Nm
3AZ Guard plate to swivel bearing	E70, E71	M6	Replace self-locking or microencapsulated screws	12 Nm
4AZ Guide screw (brake caliper to brake anchor plate)	E70, E71	WAF 7	Replace self-locking or microencapsulated screws	30 Nm
	E70, E71	wrench size 9 mm	Replace self-locking or microencapsulated screws	55 Nm

REAR BRAKES

34 21 REAR BRAKE

REAR BRAKE-TIGHTENING TORQUE SPECIFICATIONS

	Type	Thread	Tightening specification	Measure
1AZ Brake disc to wheel hub	E70, E71	M8	Replace screw	16 Nm
2AZ Brake anchor	E70, E71	M12x1.5	Replace self-locking or	110 Nm

plate to wheel carrier			microencapsulated screws	
3AZ Protective plate to wheel carrier	E70, E71	M6	Replace self-locking or microencapsulated screws	12 Nm
4AZ Guide screw (brake caliper to brake anchor plate)	E70, E71	WAF 7	Replace self-locking or microencapsulated screws	30-5 Nm

MASTER BRAKE CYLINDER

34 31 BRAKE MASTER CYLINDER

BRAKE MASTER CYLINDER-TIGHTENING TORQUE SPECIFICATIONS

	Type	Thread	Tightening specification	Measure
1AZ Brake master cylinder to brake booster (vacuum)	E70, E71	M8	Replace self-locking nuts	23±2 Nm

BRAKE LINES

34 32 BRAKE LINES

BRAKE LINES-TIGHTENING TORQUE SPECIFICATIONS

	Type	Thread	Tightening specification	Measure
1AZ Brake line screws/union screws	E70, E71	M12 x 1		12 Nm
	E70, E71	M12 x 1	Blue union screw screw connection in steel e.g. brake hose	16 Nm
	E70, E71	M12 x 1	Blue union screw screw connection in aluminium e.g. hydraulic control unit	17 Nm
	E70, E71	M10 x 1		14 Nm
	E70, E71	M10 x 1	Blue union screw screw connection in steel e.g. brake hose	16 Nm
	E70, E71	M10 x 1	Blue union screw screw connection in aluminium e.g. hydraulic control	17 Nm

			unit	
2AZ Brake hose to brake caliper, front	E70, E71			24 Nm
3AZ Brake hose to brake caliper, rear	E70, E71			24 Nm

BRAKE BOOSTER

34 33 BRAKE BOOSTER

BRAKE BOOSTER-TIGHTENING TORQUE SPECIFICATIONS

	Type	Thread	Tightening specification	Measure
1AZ Brake booster to pedal assembly console	E70, E71	M8	Retighten 1x on brake booster after 5 min	24 Nm

PARKING BRAKE

34 41 PARKING BRAKE

PARKING BRAKE-TIGHTENING TORQUE SPECIFICATIONS

	Type	Thread	Tightening specification	Measure
1AZ Spring clip to wheel carrier	E70, E71	M6		8 Nm
2AZ Support Duo-Servo to wheel carrier, rear	E70, E71	M10		60 Nm
3AZ Bracket, EMF, to rear axle carrier	E70, E71	M8		19 Nm
4AZ EMF actuating unit to bracket	E70, E71		self-tapping screw	4 Nm
5AZ Union nut, parking brake Bowden cables, to actuating unit	E70, E71		wrench size 27 mm	6 Nm

35 11 PEDAL ASSEMBLY CONSOLE

PEDAL ASSEMBLY CONSOLE-TIGHTENING TORQUE SPECIFICATIONS

	Type	Thread	Tightening specification	Measure
1AZ Bearing	E70, E71	M8	Retighten 1x on	24 Nm

pedestal to brake assembly and body			brake booster after 5 min	
2AZ Bearing block to bracket, top	E70, E71	M8		24 Nm

SLIP CONTROL SYSTEMS

34 51 SLIP CONTROL SYSTEM (DSC)

SLIP CONTROL SYSTEM (DSC)-TIGHTENING TORQUE SPECIFICATIONS

	Type	Thread	Tightening specification	Measure
1AZ Control unit to hydraulic control unit	E70, E71		Initial tightening Final tightening	2±0.5 Nm 4.3+0.5 Nm
2AZ DSC sensor to floor pan	E70, E71			8 Nm
3AZ Pulse generator to swivel bearing/wheel carrier	E70, E71			8 Nm
4AZ Hydraulic control unit to holder	E70, E71	M8		19 Nm
5AZ Holder, hydraulic control unit, to body	E70, E71			8 Nm
6AZ ICM control unit to body	E71			8 Nm

MECHANICAL

34 51 SLIP CONTROL SYSTEM (DSC)

SLIP CONTROL SYSTEM (DSC)-TIGHTENING TORQUE SPECIFICATIONS

	Type	Thread	Tightening specification	Measure
1AZ Control unit to hydraulic control unit	E70, E71		Initial tightening Final tightening	2±0.5 Nm 4.3+0.5 Nm
2AZ DSC sensor to floor pan	E70, E71			8 Nm
3AZ Pulse generator to swivel bearing/wheel	E70, E71			8 Nm

carrier				
4AZ Hydraulic control unit to holder	E70, E71	M8		19 Nm
5AZ Holder, hydraulic control unit, to body	E70, E71			8 Nm
6AZ ICM control unit to body	E71			8 Nm