

WM 4X00IN Tightening torques for brake mechanics

Technical values

Location	Description	Type	Basic value	Tolerance 1	Tolerance 2
Brake calliper to front-axle wheel carrier, naturally aspirated engine	M14 x 1.5 x 115 thread	Tightening torque	140 Nm (104 ftlb.)		
Brake calliper to front-axle wheel carrier, turbo engine/PCCB	M14 x 1.5 x 135 thread	Tightening torque	140 Nm (104 ftlb.)		
Brake hose bracket to wheel carrier	M6 x 16 thread	Tightening torque	10 Nm (7.5 ftlb.)		
Brake hose bracket to front body	M6 thread	Tightening torque	10 Nm (7.5 ftlb.)		
Brake hose bracket to rear body	M6 thread	Tightening torque	10 Nm (7.5 ftlb.)		
Brake hose to brake calliper	M10 x 1 thread	Tightening torque	14 Nm (10.5 ftlb.)		
Brake cover panel to wheel carrier	M6 x 16 thread	Tightening torque	10 Nm (7.5 ftlb.)		
Brake disc to wheel hub	M6 x 12 thread	Tightening torque	5 Nm (3.5 ftlb.)		
Brake calliper to rear-axle wheel carrier, naturally aspirated engine	M12 x 1.5 x 85 thread	Tightening torque	85 Nm (63 ftlb.)		
Brake calliper to rear-axle wheel carrier, turbo engine/PCCB	M12 x 1.5 x 95 thread	Tightening torque	85 Nm (63 ftlb.)		
Brake hose bracket to brake calliper	M6 x 16 thread	Tightening torque	10 Nm (7.5 ftlb.)		
Brake hose to brake line	M10 x 1 thread	Tightening torque	14 Nm (10.5 ftlb.)		
Brake line to brake calliper	M10 x 1 thread	Tightening torque	14 Nm (10.5 ftlb.)		
Brake cover panel to wheel carrier	M6 x 16 thread	Tightening torque	10 Nm (7.5 ftlb.)		
Brake disc to wheel hub	M6 x 12 thread	Tightening torque	5 Nm (3.5 ftlb.)		
EPB actuator to wheel carrier	M8 x 38 thread	Tightening torque	10 Nm (7.5 ftlb.)	60°	
ABS cable holder to rear-axle wheel carrier	M6 x 16 thread	Tightening torque	8 Nm (6 ftlb.)		
Brake line holder to rear-axle brake calliper	M6 x 12 thread	Tightening torque	8 Nm (6 ftlb.)		
Cable holder for speed sensor/ABS to rear control arm (upper front)	M6 thread	Tightening torque	8 Nm (6 ftlb.)		
Pedals to cowl panel	M8 x 25 thread	Tightening	23 Nm		

		torque	(17 ftlb.)		
Brake booster to pedals	M8 x 190	Tightening torque	23 Nm (17 ftlb.)		
Accelerator pedal box to body	M6 thread	Tightening torque	10 Nm (7.5 ftlb.)		
Screws for articulated strut to pedal bearing block		Tightening torque	10 Nm (7.5 ftlb.)	+/- 1.5 Nm (+/- 1.0 ftlb.)	
Clip (holder) for brake light switch		Tightening torque	8 Nm (6 ftlb.)	+/- 1 Nm (+/- 0.5 ftlb.)	

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Information

- Always replace screws using the torque angle tightening procedure.
- Always replace lock nuts.
- Always replace screws on the brake calliper.
- Screws and lock nuts are Geomet-coated and must not be greased.
- Wheel bolts must never be greased.
- Wheel bolts must never be reworked >> always replace wheel bolts.
- Always use correct tightening torques and torque angle.

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Brake hose bracket to front body	M6 thread	Tightening torque	10 Nm (7.5 ftlb.)		
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Brake hose to brake calliper	M10 x 1 thread	Tightening torque	14 Nm (10.5 ftlb.)		
Brake cover panel to wheel carrier	M6 x 16 thread	Tightening torque	10 Nm (7.5 ftlb.)		
Brake disc to wheel hub	M6 x 12 thread	Tightening torque	5 Nm (3.5 ftlb.)		
Brake calliper to rear-axle wheel carrier, naturally aspirated engine	M12 x 1.5 x 85 thread	Tightening torque	85 Nm (63 ftlb.)		

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Brake booster to pedals	M8 x 190	Tightening torque	23 Nm (17 ftlb.)		
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Screws for articulated strut to pedal bearing block		Tightening torque	10 Nm (7.5 ftlb.)	+/-1.5 Nm (+/- 1.0 ftlb.)	
Clip (holder) for brake light switch		Tightening torque	8 Nm (6 ftlb.)	+/-1 Nm (+/- 0.5 ftlb.)	

970110, 970111, 970120, 970121, 970130, 970131, 970410, 970411, 970420, 970421, 970430, 970431, 970140, 970141, 970440, 970441, 970450, 970451, 970810, 970811, 970820, 970821, 970830, 970831

Model year as of 2010
C00, C02, C05, C07, C08, C09, C10, C11, C12, C13, C14, C15, C16, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28, C32, C33, C34, C35, C36, C37, C38, C39, C45, C46, C98, C99