

2006 MINI Cooper

2002-08 ENGINE Fuel Supply System - Tightening Torques - Cooper (W10) & Cooper S (W11)

2002-08 ENGINE**Fuel Supply System - Tightening Torques - Cooper (W10) & Cooper S (W11)****FUEL TANK AND MOUNTING****22 11 ENGINE SUSPENSION****ENGINE SUSPENSION - TIGHTENING TORQUES - (1AZ - 11AZ)**

	Type	Thread	Tightening specification	Measure
1AZ Engine support bracket to engine mount	R50 / R52 / R53	M12x1.5 - 8		68 N.m.
2AZ Engine support bracket to engine / adapter plate	R50 / R52 / R53	M12x93 - 8.8		66 N.m.
	R50 / R52 / R53	M12x1.75x85		66 N.m.
3AZ Engine carrier bracket mount to body	R50 / R53	M12x1.5x30 - 8.8		68 N.m.
4AZ Top engine carrier bracket to engine support bracket	R50, W10 / R53	M12x1.5x60 - 8.8		100 N.m.
	R50 / W17	M12x1.5x70 - 8.8		68 N.m.
5AZ Top engine carrier bracket to engine carrier bracket holder	R50, W10 / R53,	M12x1.5x90 - 10.9		100 N.m.
	R50 / W17	M12x1.5x100 - 8.8		68 N.m.
6AZ Engine mount to body	R50 / R52 / R53	M10x110 - 10.9	Replace screw	
			Jointing torque	56 N.m.
			Torque angle	90° +/- 15°
	R50 / R52 / R53	M12x35-8.8		68 N.m.
7AZ Bottom engine carrier bracket holder to oil sump	R50 / R52 / R53	M10x20 - 8.8		38 N.m.
8AZ Bottom engine carrier bracket to holder	R50 / R52 / R53	M12x1.5x60 - 10.9		100 N.m.
9AZ Bottom engine carrier bracket to front axle carrier	R50 / R52 / R53	M12x1.5x90 - 10.9		100 N.m.
10AZ Adapter plate to end cover	R50 / W17	M8x50, M8x65		24 +/- 5 N.m.
	R50 / W17	M10x55		55 +/- 5 N.m.
11AZ Grounding cable to engine support	R50 / R52 /			

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bracket	R53	M8 nut		13.5 N.m.
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16 11 FUEL TANK AND FASTENING ELEMENTS**FUEL TANK AND FASTENING ELEMENTS - TIGHTENING TORQUES - (1AZ - 4AZ)**

	Type	Thread	Tightening specification	Measure
1AZ Nut/fuel filler pipe to body	R50, R53, R52	M6		5 N.m.
2AZ Cover/test opening flap	R50, R53, R52			6 N.m.
3AZ Tank to rear axle carrier and body	R50, R53, R52	M8		22 - 28 N.m.
4AZ Clips / fuel filler hose	R50, R53, R52			2.5 - 3.5 N.m.

22 32 TRANSMISSION MOUNTS**TRANSMISSION MOUNTS - TIGHTENING TORQUES - (1AZ - 3AZ)**

	Type	Thread	Tightening specification	Measure
1AZ Transmission mount to transmission	R50 / R52	M10x45 - 8.8		38 N.m.
	R53	M12x45 - 8.8		66 N.m.
2AZ Transmission support bracket to body	R50 / R52 / R53	M12		68 N.m.
3AZ Transmission support bracket to transmission mount	R50 / R52 / R53,	M12x1.5x125 - 8.8		68 N.m.

FUEL PUMP**16 14 FUEL PUMP****FUEL PUMP - TIGHTENING TORQUES - (1AZ)**

	Type	Thread	Tightening specification	Measure
1AZ Clamping ring (metal)	R50, R53, R52			35 N.m.