

METRIC BOLT MARKINGS AND TORQUE VALUES

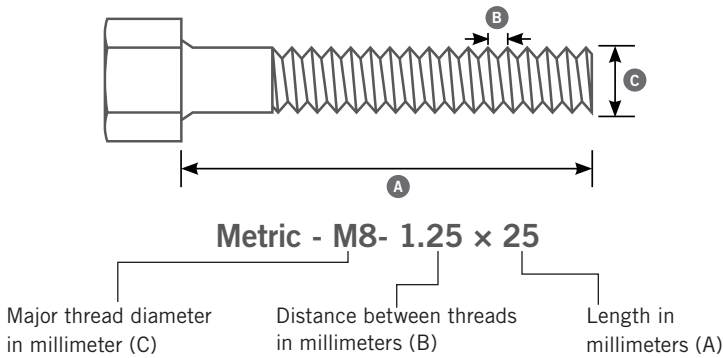
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This bulletin covers the following Champion Power Equipment models (*Note: Read instructions completely before performing service*):

- All Champion Power Equipment Portable Generators

Standard Metric Bolt Dimensions and Grades

Bolt Dimensions



Metric Grade Markings



Torque Values

Applications

ENGINE						
Name	Size	163-224 cc		270-459 cc		
		Torque Value		Size	Torque Value	
		Nm	ft-lb		Nm	ft-lb
Connecting Rod Bolt	M7	12	9	M8	18	13
Cylinder Head Bolt	M8	24	18	M10	39	29
Flywheel Nut	M14	75	55	M16	115	85
Crankcase Cover Bolt	M8	24	18	M8	25	18
Oil Alert Connector Nut	M10	10	7	M10	10	7
Muffler Installation Nut	M8	24	18	M8	24	18
Oil Drain Bolt	M10	18	13	M12	22	16
Air Cleaner Assembly Nut	M6	9	7	M6	9	7
Exhaust Pipe	M10	18	13	M10	18	13

GENERATOR						
Name	Size	163-224 cc		270-459 cc		
		Torque Value		Size	Torque Value	
		Nm	ft-lb		Nm	ft-lb
Rotor Mounting Bolt (long bolt)	M8	24	18	M10	37.5	28
Stator Mounting Bolt (long bolt)	M6	12	9	M6	12	9
Crankcase Cover	M8	24	18	M8	24	18
Fuel Valve Nut	M10	20	15	M10	20	15
Fuel Tank Nut and Bolt	M6	10	7	M8	16	12