

Bolt Torquing Chart



METRIC STANDARD						
Grade of Bolt		5D	8G	10K	12K	
Minimum Tensile Strength		71,160 PSI	113,800 PSI	142,200 PSI	170,679 PSI	Size of Socket or Wrench Opening
Metric		Foot Pounds				Metric
Bolt Dia.	U.S. Dec. Equiv.					Bolt Head
6 mm	.2362	5	6	8	10	10 mm
8 mm	.315	10	16	22	27	14 mm
10 mm	.3937	19	31	40	49	17 mm
12 mm	.472	34	54	70	86	19 mm
14 mm	.5512	55	89	117	137	22 mm
16 mm	.6299	83	132	175	208	24 mm
18 mm	.709	111	182	236	283	27 mm
22 mm	.8661	182	284	394	464	32 mm

SAE STANDARD / FOOT POUNDS						
Grade of Bolt	SAE 1 & 2	SAE 5	SAE 6	SAE 8		
Minimum Tensile Strength	64,000 PSI	105,000 PSI	133,000 PSI	150,000 PSI	Size of Socket or Wrench Opening	
U.S Standard	Foot Pounds				Metric	
Bolt Dia.					Bolt Head	Nut
1/4	5	7	10	10.5	3/8	7/16
5/16	9	14	19	22	1/2	9/16
3/8	15	25	34	37	9/16	5/8
7/16	24	40	55	60	5/8	3/4
1/2	37	60	85	92	3/4	13/16
9/16	53	88	120	132	7/8	7/8
5/8	74	120	167	180	15/16	1
3/4	120	200	280	296	1-1/8	1-1/8