



Bolting Torque Information

TORQUE IN FOOT POUNDS *			
Bolt or Stud Size	Course Thread/ Inch	120,000 Tensile A193- B7	100,000 Tensile A193- B7M
1/4"	20	10	9
5/16"	18	19	17
3/8"	16	33	30
7/16"	14	54	47
1/2"	13	78	69
9/16"	12	114	103
5/8"	11	154	145
3/4"	10	257	234
7/8"	9	382	372
1"	8	587	551
1- 1/8"	7	794	872
1- 1/4"	7	1,105	1,211
1- 3/8"	6	1,500	1,624
1- 1/2"	6	1,775	1,943
1- 5/8"	5.5	2,425	2,660
1- 3/4"	5	3,150	3,463
1- 7/8"	5	4,200	4,695
2"	4.5	4,550	5,427

*These are maximum torque values taken from SAE Standard Charts.

EFFECT OF LUBRICATION ON TORQUE		
Lubricant	Torque Rating in Foot Pounds	
	5/16"- 18	1/2"- 13
NO LUBE	29	121
Plated & Cleaned	19 (66%)	90 (26%)
SAE 20 Oil**	18 (38%)	87 (28%)
SAE 40 Oil	17 (41%)	83 (31%)
Plated & SAE 30	16 (45%)	79 (35%)
White Grease	16 (45%)	79 (35%)
Dry Moly Film	14 (52%)	66 (45%)
Graphite & Oil	13 (55%)	62 (49%)

** From Factory with Lube Oil

Use above percentages to cauculate approx. **decrease** in torque rating for other bolt sizes.