

**TABLE 7-1.** Recommended torque values (inch-pounds).

CAUTION THE FOLLOWING TORQUE VALUES ARE DERIVED FROM OIL FREE CADMIUM PLATED THREADS.				
	TORQUE LIMITS RECOMMENDED FOR INSTALLATION (BOLTS LOADED PRIMARILY IN SHEAR)		MAXIMUM ALLOWABLE TIGHTENING TORQUE LIMITS	
Thread Size	Tension type nuts MS20365 and AN310 (40,000 psi in bolts)	Shear type nuts MS20364 and AN320 (24,000 psi in bolts)	Nuts MS20365 and AN310 (90,000 psi in bolts)	Nuts MS20364 and AN320 (54,000 psi in bolts)
<b>FINE THREAD SERIES</b>				
8-36	12-15	7-9	20	12
10-32	20-25	12-15	40	25
1/4-28	50-70	30-40	100	60
5/16-24	100-140	60-85	225	140
3/8-24	160-190	95-110	390	240
7/16-20	450-500	270-300	840	500
1/2-20	480-690	290-410	1100	660
9/16-18	800-1000	480-600	1600	960
5/8-18	1100-1300	600-780	2400	1400
3/4-16	2300-2500	1300-1500	5000	3000
7/8-14	2500-3000	1500-1800	7000	4200
1-14	3700-5500	2200-3300*	10,000	6000
1-1/8-12	5000-7000	3000-4200*	15,000	9000
1-1/4-12	9000-11,000	5400-6600*	25,000	15,000
<b>COARSE THREAD SERIES</b>				
8-32	12-15	7-9	20	12
10-24	20-25	12-15	35	21
1/4-20	40-50	25-30	75	45
5/16-18	80-90	48-55	160	100
3/8-16	160-185	95-100	275	170
7/16-14	235-255	140-155	475	280
1/2-13	400-480	240-290	880	520
9/16-12	500-700	300-420	1100	650
5/8-11	700-900	420-540	1500	900
3/4-10	1150-1600	700-950	2500	1500
7/8-9	2200-3000	1300-1800	4600	2700
The above torque values may be used for all cadmium-plated steel nuts of the fine or coarse thread series which have approximately equal number of threads and equal face bearing areas. * Estimated corresponding values.				

AN Bolt Size	Bolt Size - Threads per inch	Standard Nuts (AN310, AN315, AN365)		USE	FINE THREAD SERIES	
		in-lbs	ft-lbs		THREAD SIZE	MINIMUM PREVAILING TORQUE
AN3	#10-32	20 - 25	1.6 - 2.0		7/16 - 20	8 inch-pounds
AN4	1/4-28	50 - 70	4.2 - 5.8		1/2 - 20	10 inch-pounds
AN5	5/16-24	100 - 140	8.3 - 11.6		9/16 - 18	13 inch-pounds
AN6	3/8-24	160 - 190	13.3 - 15.8		5/8 - 18	18 inch-pounds
AN7	7/16-20	450 - 500	37.5 - 41.7		3/4 - 16	27 inch-pounds
AN8	1/2-20	480 - 690	40.0 - 57.5		7/8 - 14	40 inch-pounds
AN9	9/16-18	800 - 1000	66.6 - 83.3		1 - 14	55 inch-pounds
AN10	5/8-18	1100 - 1500	91.6 - 125.0		1-1/8 - 12	73 inch-pounds
MS21042-3	10-32	28	2.3		1-1/4 - 12	94 inch-pounds
MS21042-4	1/4-28	85	7		<b>COARSE THREAD SERIES</b>	
<b>Screws</b>					<b>THREAD SIZE</b>	<b>MINIMUM PREVAILING TORQUE</b>
#8		12 - 15			7/16 - 14	8 inch-pounds
#6 Lube		12			1/2 - 13	10 inch-pounds
#6 Dry		14			9/16 - 12	14 inch-pounds
<b>Jam Nut</b>					5/8 - 11	20 inch-pounds
		110		Elev Rod Bearing	3/4 - 10	27 inch-pounds
					7/8 - 9	40 inch-pounds
<b>DO NOT reuse a fiber or nylon locknut, if the nut cannot meet the minimum prevailing torque values. (See table 7-2.)</b>					1 - 8	51 inch-pounds
					1-1/8 - 8	68 inch-pounds
					1-1/4 - 8	88 inch-pounds