

AA-5 SERIES
MAINTENANCE MANUAL

CHAPTER 91

CHARTS

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RECOMMENDED NUT TORQUES

NOTE

The Torque Values stated are inch-pounds, related only to oil-free cadmium plated threads. All torque values given through out this service manual are for oil-free threads unless otherwise noted.

FINE THREAD SERIES TYPE OF NUT				
TAP SIZE	TENSION		SHEAR	
	TORQUE		TORQUE	
	STD (NOTE 1)	ALT (NOTE 2)	STD (NOTE 3)	ALT (NOTE 2)
8-36	12-15		7-9	
10-32	20-25	20-28	12-15	12-19
1/4-28	50-70	50-75	30-40	30-48
5/16-24	100-140	100-150	60-85	60-106
3/8-24	160-190	160-260	95-110	95-170
7/16-20	450-500	450-560	270-300	270-390
1/2-20	480-690	480-730	290-410	290-500
9/16-18	800-1000	800-1070	480-600	480-750
5/8-18	1100-1300	1100-1600	660-780	660-1060
3/4-16	2300-2500	2300-3350	1300-1500	1300-2200
7/8-14	2500-3000	2500-4650	1500-1800	1500-2900
1-14	3700-5500	3700-6650	2200-3300	2200-4400
1-1/8-12	5000-7000	5000-10000	3000-4200	3000-6300
1-1/4-12	9000-11000	9000-16700	5400-6600	5400-10000

COARSE THREAD SERIES

	(NOTE 4)	(NOTE 5)	
	8-32	12-15	7-9
10-24	20-25	12-15	
1/4-20	40-50	25-30	
5/16-18	80-90	48-55	
3/8-16	160-185	95-100	
7/16-14	235-255	140-155	
1/2-13	400-480	240-290	
9/16-12	500-700	300-420	
5/8-11	700-900	420-540	
3/4-10	1150-1600	700-950	
7/8-9	2200-3000	1300-1800	
1-8	3700-5000	2200-3000	
1-1/8-8	5500-6500	3300-4000	
1-1/4-8	6500-8000	4000-5000	

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NOTES

1. Covers AN310, AN316, AN345, AN363, AN366, MS20365, "1452", "EB", "UWN", "Z1200", and other self-locking nuts.
2. When using AN310 or AN320 castellated nuts where alignment between bolt and cotter pin is not reached using normal torque values, use alternate torque values or replace nut.
3. Covers AN316, AN320, AN7502 and MS20364.
4. Covers AN310, AN340, AN366, MS20365, and other self-locking anchor nuts.
5. Covers AN316, AN320 and MS20364.

The above values are recommended for all installation procedures contained in this manual except where other values are stipulated. They are not to be used for checking tightness of installed parts during service.