

Service Hints

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Torque Values For Model A Nuts & Bolts

The expression, "a little knowledge can be a dangerous thing," is usually true. I have learned this lesson the hard way at times. My thanks to Enrique J. Klein of Los Altos, CA for pointing out to me some stated torque value errors and asking that I reevaluate some of the stated Model A torque values given in previous publications. In most of the previous articles, including some I have written, a specification table is included that comes out of an engineering handbook that shows torque values for the different size bolts, giving bolt size, threads per inch, and torque value for different grade bolts, with dry or lubed threads. It's up to the reader to determine which torque value should be used.

There are many factors to be considered when apply-

ing torque to a bolt or nut: bolt size, bolt grade, dry or lubricated threads, and how many times the threads have been torqued (stressed).

Before torquing a nut or bolt, make sure the threads are dry to obtain a more accurate reading. Clean all threads and make sure they have not been stripped or show evidence of overstressed or stretched threads. Many of you have asked for a chart listing the recommended torque value for the specific torqued nuts and bolts on the Model A. The table below lists the recommended torque values.

For additional information see *The Restorer* article, "Nuts and Bolts for Model A" (September/October 1976, Volume 21, Issue 3).

Model A Recommended Torque Values

Size	Strength psi		ft. lbs.	
3/8-24	74,000		20	Low Carbon Steel
	SALEST TOTAL TOTAL STATES			(Original Model A)
				Low Carbon Steel
3/8-24	74,000	() 2	20	Low Carbon Steel
5/8-18	110,00		100	Hardened Axle Threads
		l .	64	
	Ne	ew Bearing	20 in.lbs.	Adjust nut for Torque
	Us	ed Bearing	15 in.lbs.	inch lb. drag on Drive Shaft
			100	
5/16-18	150,000	(-⟨`⟩ 5	20	Replace with Grade 5
7/16-20	150,000		55	
7/16-20	135		45	
	9.74	(-\'\) 5	50	Grade 5 or Better
	3.577		50	Grade 5 or Better
-	-		50	
1/2-20	_	-	80	
	_	_	1.00	
	_	_	0.0000000000000000000000000000000000000	
	3/8-24 3/8-24 5/8-18 5/16-18	3/8-24 74,000 3/8-24 74,000 5/8-18 110,00 No Us No Us No Us 15/16-18 150,000 7/16-20 150,000 7/16-20 150,000 7/16-14 120,000 7/16-20 120,000 1/2-20	3/8-24 74,000 2 3/8-24 74,000 2 3/8-24 74,000 2 5/8-18 110,00 2 New Bearing Used Bearing Used Bearing 5/16-18 150,000 7/16-20 150,000 7/16-14 120,000 7/16-20 120,000 7/16-20 120,000 7/16-20 1/2-20	3/8-24 74,000 2 20 3/8-24 74,000 2 20 5/8-18 110,00 100 5/8-18 110,00 64 New Bearing Used Bearing Used Bearing 15 in.lbs. 15/16-18 150,000 7/16-20 150,000 7/16-20 150,000 7/16-14 120,000 7/16-20 120,000 7/16-20 120,000 7/16-20 120,000 7/16-20 1- 50 50 1/2-20 - 80