



RECOMMENDED TORQUE FOR CAP BOLTS OR STUDS

BOLT SIZE	BLISS STRESS PROOF STUDS BLISS HEX HD. CAP SCREWS		SOC. HD. SCREWS	
	S.A.E. GRADE 5		S.A.E. GRADE 8	
	Clamping Load	Torque	Clamping Load	Torque
1/4 - 20	2,000	8 ft. lbs.	2,850 lbs.	12 ft. lbs.
1/4 - 28	2,300 lbs.	10 ft. lbs.	3,250 lbs.	14 ft. lbs.
5/16 - 18	3,350 lbs.	17 ft. lbs.	4,700 lbs.	24 ft. lbs.
5/16 - 24	3,700 lbs.	19 ft. lbs.	5,200 lbs.	27 ft. lbs.
3/8 - 16	4,950 lbs.	30 ft. lbs.	6,950 lbs.	45 ft. lbs.
3/8 - 24	5,600 lbs.	35 ft. lbs.	7,900 lbs.	50 ft. lbs.
7/16 - 14	6,800 lbs.	50 ft. lbs.	9,600 lbs.	70 ft. lbs.
7/16 - 20	7,550 lbs.	55 ft. lbs.	10,700 lbs.	80 ft. lbs.
1/2 - 13	9,050 lbs.	75 ft. lbs.	12,800 lbs.	105 ft. lbs.
1/2 - 20	10,200 lbs.	85 ft. lbs.	14,400 lbs.	120 ft. lbs.
9/16 - 12	11,600 lbs.	110 ft. lbs.	16,400 lbs.	155 ft. lbs.
9/16 - 18	13,000 lbs.	120 ft. lbs.	18,300 lbs.	170 ft. lbs.
5/8 - 11	14,500 lbs.	150 ft. lbs.	20,300 lbs.	210 ft. lbs.
5/8 - 18	16,400 lbs.	170 ft. lbs.	23,000 lbs.	240 ft. lbs.
3/4 - 10	21,300 lbs.	270 ft. lbs.	30,100 lbs.	375 ft. lbs.
3/4 - 16	23,800 lbs.	300 ft. lbs.	33,600 lbs.	420 ft. lbs.
7/8 - 9	29,500 lbs.	430 ft. lbs.	41,600 lbs.	610 ft. lbs.
7/8 - 14	32,400 lbs.	475 ft. lbs.	45,800 lbs.	670 ft. lbs.
1" - 8	38,700 lbs.	645 ft. lbs.	54,600 lbs.	910 ft. lbs.
1" - 12	42,300 lbs.	705 ft. lbs.	59,700 lbs.	1000 ft. lbs.
1" - 14	43,300 lbs.	720 ft. lbs.	61,100 lbs.	1015 ft. lbs.
1 1/4 - 7	53,800 lbs.	1120 ft. lbs.	87,200 lbs.	1830 ft. lbs.
1 1/4 - 12	59,600 lbs.	1240 ft. lbs.	96,600 lbs.	2000 ft. lbs.
1 1/2 - 6	78,000 lbs.	1940 ft. lbs.	126,500 lbs.	3160 ft. lbs.
1 1/2 - 12	87,700 lbs.	2200 ft. lbs.	142,200 lbs.	3580 ft. lbs.
1 3/4 - 5	105,355 lbs.	2293 ft. lbs.	170,847 lbs.	3730 lbs.
2 - 4 1/2	138,589 lbs.	3447 ft. lbs.	224,739 ft. lbs.	5608 ft. lbs.
2 1/4 - 4 1/2	180,175 lbs.	5041 ft. lbs.	292,176 lbs.	8202 ft. lbs.
2 1/2 - 4	221,866 lbs.	6897 ft. lbs.	359,784 lbs.	11222 ft. lbs.
2 3/4 - 4	273,759 lbs.	9361 ft. lbs.	443,939 lbs.	15232 ft. lbs.
3 - 4	331,107 lbs.	12352 ft. lbs.	536,931 lbs.	20097 ft. lbs.
3 1/4 - 4	394,005 lbs.	15924 ft. lbs.	630,928 lbs.	25909 ft. lbs.
3 1/2 - 4	462,137 lbs.	20114 ft. lbs.	749,412 lbs.	32726 ft. lbs.
3 3/4 - 4	535,830 lbs.	24987 ft. lbs.	868,914 lbs.	40655 ft. lbs.
4 - 4	614,967 lbs.	30589 ft. lbs.	997,245 lbs.	49712 ft. lbs.

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