

TIGHTENING TORQUE REFERENCE CHART FOR SAE AND METRIC BOLTS

NL = Not Lubricated
L = Lubricated
1 lbs ft = 1.356 N·m



HEX KEY INTERCHANGE	
SAE	Metric

TIGHTENING TORQUE FOR SAE BOLTS (50% of yield strength S_y) in lbs ft

MATERIAL	UNC	1/4-20	5/16-18	3/8-16	7/16-14	1-12	1 1/8-12	1 1/2-11	1 3/4-10	2-9	2 1/2-8	3-7	3 1/2-6	4-5
GRADE 1	NL	4	8	14	22	34	45	68	100	194	291	492	581	762
	L	3	6	10	17	26	37	51	90	145	218	309	436	572
GRADE 2	NL	6	12	22	35	54	78	107	191	294	492	581	762	1012
	L	5	9	17	27	40	58	81	143	145	218	309	436	572
GRADE 5/8.2	NL	10	20	36	57	87	126	173	308	496	743	1053	1486	2589
	L	7	15	27	43	65	94	130	231	372	557	790	1114	1939
GRADE 8	NL	14	28	50	81	123	177	245	435	700	1050	1488	2100	2752
	L	10	21	38	60	92	133	184	326	525	787	1116	1575	2084

MATERIAL	UNF	1/4-28	5/16-24	3/8-24	7/16-20	1-20	1 1/8-18	1 1/2-16	1 3/4-14	2-14	2 1/2-12	3-10	3 1/2-9	4-8
GRADE 1	NL	4	9	16	25	38	55	77	104	214	325	482	644	808
	L	3	7	12	19	29	41	58	101	160	245	347	483	601
GRADE 2	NL	7	14	25	39	61	87	122	213	214	326	482	644	808
	L	5	10	19	30	46	66	91	159	160	245	347	483	601
GRADE 5/8.2	NL	11	22	40	64	98	140	196	343	547	834	1181	1648	2217
	L	8	17	30	48	74	105	147	257	410	625	886	1234	1682
GRADE 8	NL	16	31	57	90	139	198	277	485	773	1178	1689	2325	3103
	L	12	24	43	68	104	148	208	364	580	884	1251	1744	2350

TIGHTENING TORQUE FOR METRIC BOLTS (50% of yield strength S_y) in lbs ft

MATERIAL	ST. PITCH	M6-1	M8-1.25	M10-1.5	M12-1.75	M14-2	M16-2	M18-2.5	M20-2.5	M22-2.5	M24-3	M27-3	M30-3.5	M36-4
CLASS 4.6	NL	3	9	16	29	46	71	98	139	199	240	351	477	649
	L	3	6	12	21	34	53	74	104	142	180	263	357	486
CLASS 8.8	NL	9	22	44	76	122	190	262	370	509	640	896	1271	1730
	L	7	17	33	57	91	142	197	278	378	480	702	953	1297
CLASS 10.9	NL	15	32	64	112	179	279	385	544	739	940	1375	1887	2540
	L	10	24	48	84	134	209	289	408	555	705	1031	1400	1905
CLASS 12.9	NL	16	38	75	131	209	326	451	636	865	1100	1609	2195	2973
	L	12	29	56	98	157	245	338	477	649	825	1207	1639	2230

MATERIAL	FINE PITCH	M6-0.75	M8-1	M10-1	M12-1.25	M14-1.5	M16-1.5	M18-1.5	M20-1.5	M22-1.5	M24-1.5	M27-1.5	M30-1.5	M36-1.5
CLASS 4.6	NL	4	9	16	21	30	38	70	154	207	273	393	545	733
	L	3	7	14	23	37	57	83	116	156	204	295	409	550
CLASS 8.8	NL	10	24	49	83	132	202	294	411	553	727	1048	1455	2054
	L	7	18	37	63	99	151	220	308	415	545	799	1091	1486
CLASS 10.9	NL	15	35	72	123	194	296	431	603	813	1068	1539	2136	2970
	L	11	26	54	92	146	222	323	453	610	801	1155	1602	2215
CLASS 12.9	NL	17	41	84	143	227	347	505	708	951	1249	1822	2500	3358
	L	12	31	63	108	170	260	379	530	719	937	1351	1875	2579

5/16	→	2
3/32	→	2.5
7/64	→	3
1/8	→	3.5
5/32	→	4
3/16	→	5
7/32	→	6
1/4	→	7
5/16	→	8
3/8	→	10

Torque Guide For Metric Bolts

Clemens Wendtner

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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Index of Specifications and Standards , Chilton's Repair & Tune-up Guide, Champ, Arrow, Sapporo, 1977-81 , 1981

Handbook of Bolts and Bolted Joints Sayed A. Nassar, John H. Bickford, 2025-03-20 Presenting time tested standards

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The Essential Guide to Motorcycle Maintenance Mark Zimmerman, 2016-12-15 Popular motorcycle journalist and author Mark Zimmerman brings a comfortable conversational tone to his easy to understand explanations of how motorcycles work and how to maintain them and fix them when they don t This practical tutorial covers all brands and styles of bikes making it a perfect companion to the owner s service manual whether you need to use the step by step instructions for basic maintenance techniques to wrench on your bike yourself or just want to learn enough to become an informed customer at your local motorcycle service department This book includes more than 500 color photos and a thorough index to make it an especially user friendly reference for home motorcycle mechanics of all skill levels

Chilton's Repair & Tune-up Guide, Pinto, Bobcat, 1971-80 Chilton Book Company, Chilton, 1981 This book outlines procedures for servicing and repairing vehicles using safe effective methods

Illustrated Theatre Production Guide Emeritus Professor of English John Holloway, John Holloway, 2013-03-20 Completely expanded and remodeled new edition of this unique look at theatrical

scenery construction **Donny's Unauthorized Technical Guide to Harley Davidson 1936 to Present** Donny Petersen, 2008-12-30 Donny is the Winner of the 2012 International Book Awards Donny Petersen offers the real deal in performing your Harley Davidson Twin Cam Graphics pictures and charts guide the reader on a sure footed journey to a thorough H D Twin Cam performance understanding Petersen's insight makes technical issues understandable even for the novice Donny simply explains what unfailingly works in performing the Twin Cam This is the second volume of Petersen's long awaited Donny's Unauthorized Technical Guide to Harley Davidson 1936 to Present This twelve volume series by the dean of motorcycle technology examines the theory design and practical aspects of Twin Cam performance Donny studied privately with Harley Davidson engineers having worked on Harleys for over 35 years He founded Toronto's Heavy Duty Cycles in 1974 North America's premier motorcycle shop Donny has ridden hundreds of performed Shovels Evos and Twin Cams across four continents doing all of his own roadside repairs He has acquired his practical knowledge the hard way Donny has the privilege of sharing his performance secrets the easy way Donny will walk you through detailed performing procedures like headwork turbo supercharging nitrous big inch Harleys and completing simple hop up procedures like air breathers exhausts and ignition modifications Donny Petersen feels honored to share the wealth of his motorcycle knowledge and technical expertise The Complete Guide to Auto Body Repair, 2nd Edition Dennis Parks, 2015-11-09 Step by step projects cover the latest information on panel adhesives improved repair strategies unibody vehicles media blasting panel overhaul and replacement and tools and techniques for water based paint products GATE Mechanical Engineering Notes Book | Topic Wise Note Book | Complete Preparation Guide Book EduGorilla Prep Experts, 2022-10-01 Best Selling Note Book for GATE Mechanical Engineering Exam in English with objective type questions as per the latest syllabus Increase your chances of selection by 16X GATE Mechanical Engineering Notes Book comes with well structured Content Chapter wise Practice Tests for your self evaluation Clear exam with good grades using thoroughly Researched Content by experts The Antique Automobile, 1966 Includes a tenth anniversary issue dated Nov 1945 **The Homeowner's Ultimate Tool Guide** Sandor Nagyszalanczy, 2003-11-01 Choose smarter build better your complete guide to tools that tackle every home project The Homeowner's Ultimate Tool Guide Choosing the Right Tool for Every Home Improvement by Sandor Nagyszalanczy is a trusted resource for DIYers new homeowners and anyone assembling their first toolbox Published by Taunton Press this comprehensive guide features 14 curated tool kits for plumbing electrical carpentry painting car repair and more plus expert advice on how to select use and maintain each tool With large color photos pros and cons breakdowns and pro tip boxes Nagyszalanczy makes it easy to understand what each tool does and how to ask for it at the hardware store Whether you're hanging drywall or fixing a faucet this book helps you work safely efficiently and with confidence Direct Support and General Support Maintenance Manual for Crane, Wheel Mounted, 20-ton at 10-foot Radius, 2 Engines, Diesel Engine Driven, 4x4 Air Transportable, Harnischfeger Corp. Model M320RT (NSN 3810-00-275-1167)., 1989

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