



TIGHTENING TORQUE REFERENCE CHART FOR SAE AND METRIC BOLTS

NL = Not Lubricated

L = Lubricated

1 lbs ft = 1.356 N·M



Grade 1, 5 (UNS: 5.0)
Tensile: 60,000 psi

Grade 2
Tensile: 70,000 psi

Grade 5
Tensile: 100,000 psi

Grade 8
Tensile: 150,000 psi

Grade 10.9
Tensile: 120,000 psi

Grade 12.9
Tensile: 140,000 psi

TIGHTENING TORQUE FOR SAE BOLTS (80% of yield strength S_y) in lbs ft

MATERIAL	UNC	1/4"-20	5/16"-18	3/8"-16	7/16"-14	1/2"-13	9/16"-12	5/8"-11	3/4"-10	7/8"-9	1"-8	1 1/8"-7	1 1/4"-7	1 3/8"-6	1 1/2"-5
GRADE 1	NL	4	8	14	22	34	49	68	100	154	291	412	581	762	1092
	L	3	6	10	17	26	37	51	80	145	278	399	436	570	758
GRADE 2	NL	6	12	22	35	54	78	107	161	254	492	691	881	1162	1702
	L	5	9	17	27	40	58	81	143	218	430	609	836	1107	1658
GRADE 5/5.2	NL	10	20	36	57	87	126	173	268	406	743	1053	1486	1948	2886
	L	7	15	27	43	65	94	130	231	372	687	990	1374	1801	2659
GRADE 8	NL	14	28	50	81	123	177	245	435	700	1250	1858	2700	3752	5554
	L	10	21	38	60	92	133	184	326	525	907	1316	1875	2684	3940

TIGHTENING TORQUE FOR METRIC BOLTS (80% 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	M20-3	M22-3	M24-3	M27-3	M30-3.5	M33-3.5	M36-4
CLASS 4.6	NL	3	8	16	29	46	71	98	139	189	240	351	477	649	803
	L	3	6	12	21	34	53	74	104	142	180	263	357	486	625
CLASS 8.8	NL	9	22	44	76	122	190	262	370	503	640	936	1271	1730	2321
	L	7	17	33	57	91	142	197	278	378	480	702	953	1297	1698
CLASS 10.9	NL	13	32	64	112	178	279	385	544	739	940	1375	1860	2540	3263
	L	10	24	48	84	134	209	289	408	555	705	1031	1400	1905	2447
CLASS 12.9	NL	16	38	75	131	209	326	451	636	865	1100	1608	2185	2973	3853
	L	12	29	56	96	157	245	338	477	649	825	1207	1639	2230	2893
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	M33-1.5	M36-1.5
CLASS 4.6	NL	4	9	18	31	50	76	100	154	207	273	393	545	733	958
	L	3	7	14	23	37	57	83	116	156	204	295	409	550	718
CLASS 8.8	NL	10	24	48	83	132	202	284	411	553	737	1048	1435	1954	2556
	L	7	18	37	63	99	151	220	309	415	545	796	1091	1468	1970
CLASS 10.9	NL	15	35	72	123	194	295	431	639	873	1158	1708	2350	3182	4155
	L	11	26	54	92	148	222	323	463	610	801	1155	1592	2152	2875
CLASS 12.9	NL	17	41	84	143	227	347	506	736	993	1349	1992	2730	3658	4783
	L	13	31	63	108	170	260	379	530	713	937	1351	1875	2519	3295

WRENCH INTERCHANGE

SAE	Metric
1/64	2
3/32	2.4
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 Bolts

David B Smith

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.

Torque Guide For Bolts:

The Overlanding Vehicle Builder's Guide Don Alexander, 2024-03-15 What is overlanding Wikipedia states Overlanding is self reliant overland travel to remote destinations where the journey is the principal goal Typically but not exclusively it is accomplished with mechanized off road capable transport from bicycles to trucks where the principal form of lodging is camping It often lasts for extended periods of time months to years and spans international boundaries Overlanding did not originate in America and it is a little different here You would be hard pressed to find a bicycle out in the desert and most people don't stay out there quite that long However the spirit of the activity is the same Do you want to give overlanding a try Great You will need some gear In *The Overlanding Vehicle Builder's Guide* veteran racer off roader and journalist Don Alexander provides a terrific overview of what to consider when building your overlanding rig This includes the planned duration of the trip the number of people in your party how far off the beaten path you want to go and the creature comforts you require Understanding those wants and needs shapes what gear you need for the best experience Covered are the strengths and weaknesses of the types of vehicles themselves modifications to the vehicles to make them more capable accessories lighting camping gear food and water storage etc and equipment for trail mishaps and recovery Driving techniques and trail rules and etiquette are also included If you are ready to build a rig or just want to know more about the hobby this book is a great guide to help you get started **Technical Manual** United States Department of the Army, 1954

Machinist Guide David B Smith, 2015-04-15 This is a Machinist Notebook Reference guide Revised Arp 11 2015 Written for machinists by a journeymen machinist in a real shop environment With tables charts illustration drawing and Sketches for machinist gunsmith auto industries With work sheets for none standard threading and gear cutting It also has simple illustration on how to make a few simple tooling and aids in the shop information for machinist As listed Three wire Major Diameter worm DP and MOD Using a Dividing Head How use a Compound Indexing How to make the Smith Compound indexer Rebound Ball Hardness Tester Grinding Lathe Tools bits Speeds and lubrication Rebound Ball Hardness Tester Hardness Chart Roughness Finish Compactor Scale Over the wire dimensions inch bolts in mm Index Table for 40 tooth worm 2 to 540 Compound Indexing on 40 tooth worm 51 250 teeth Index Table for 72 tooth worm Index Table for 90 tooth worm 2 230 Gear cutting and blanks This is book with written for fast reading NOT NOVEL for reading for slow reading

Operator's, Organizational, Direct Support, General Support, and Depot Maintenance Manual (including Repair Parts Information and Supplemental Operating, Maintenance, and Repair Parts Instructions) for Roller, Pneumatic Tired Variable Pressure, Self-propelled (CCE) Hyster Model C530A, NSN 3805-01-013-3630, 1983

High Performance Fasteners and Plumbing Mike Mavrigian, 2008-01-02 The essential reference guide for choosing the right fastener and plumbing for any automotive high performance custom or racing application This user friendly guide explains high performance fasteners plumbing and all the other hardware used by racers rodders restorers and all other auto

enthusiasts Subjects include hose sizes fittings materials routing and installation tips heat shielding brake fuel coolant and oil lines as well as fastener technology such as thread sizing clamping loads bolt stretch and fastener styles **Fundamentals of Mobile Heavy Equipment** Owen C. Duffy,Gus Wright,Scott A. Heard,2017-09-27 Fundamentals of Mobile Heavy Equipment provides students with a thorough introduction to the diagnosis repair and maintenance of off road mobile heavy equipment With comprehensive up to date coverage of the latest technology in the field it addresses the equipment used in construction agricultural forestry and mining industries **MotorBoating** ,1975-11 *Direct and General Support Maintenance Manual* ,1971 **Zinn & the Art of Mountain Bike Maintenance 6th edition** Lennard Zinn,2023-10-24 From basic repairs like how to fix a flat to advanced overhauls of drivetrains and brakes Lennard Zinn s clearly illustrated guide makes every bike repair and maintenance job easy for everyone Lennard Zinn is the world s leading expert on bike maintenance and repair His friendly step by step guide explains the tools and parts you ll need and how to know you ve done the job right The book s interior is easy to read even in a dimly lit garage or workshop Hundreds of hand drawn illustrations and exploded parts diagrams show just the right level of detail to lead you through every mountain bike repair task This smartly organized guide shows how to repair new and old mountain bikes from top to bottom In over 500 pages and more than 750 illustrations Zinn s guide includes simple instructions for hundreds of mountain bike maintenance and repair jobs Basics How to fix a flat tire lube a bicycle chain adjust the brakes Emergency repairs How to fix a broken chain tighten loose spokes repair a bent derailleur Easy shifting How to adjust shifters derailleurs and cables for clean and smooth shifting Wheels How to true a wheel install a new tire change a cassette replace broken spokes build your own wheels Overhauls How to service and replace pedals chains and chainrings saddles handlebars stems headset forks bottom brackets New tech How to maintain 1x speed systems electronic and wireless shifters Troubleshooting How to figure out what s wrong with any bike and fix it Zinn all bottom bracket systems all brake systems all headset stem handlebar and fork systems wheelbuilding for all bikes updated and expanded torque tables complete indexes of all illustrations and topics covered Whether you re riding a classic Stumpjumper or a carbon fiber race machine Zinn has got you covered **Direct Support and General Support Maintenance Manual** ,1990 *Field and Depot Maintenance Manual* ,1992 **Technical Manual** United States. War Department,1948 *DS and GS Maintenance Manual* United States. Department of the Army,1965 *Direct Support, General Support and Depot Maintenance Manual, Including Repair Parts and Special Tools Lists for Engine, with Container, Turbosupercharged, Diesel, Fuel Injection, 90-degree "V" Type, Air Cooled, 12-cylinder, Assembly; Models AVDS-1790-2M (2815-856-4996), AVDS-1790-2A and AVDS-1790-2AM (2815-856-9005).* ,1989 LS Gen IV Engines 2005 - Present Mike Mavrigian,2018-08-15 p p1 margin 0 0px 0 0px 0 0px 0 0px font 12 0px Arial The GM LS Gen IV engine dominates the high performance V 8 market and is the most popular powerplant for engine swap projects In stock trim the Gen IV engines produce class leading horsepower The Gen IV s rectangular port heads flow far more air fuel than the Gen III

cathedral port heads However with the right combination of modification procedures and performance parts you can unlock the performance potential of the Gen IV engines and reach almost any performance target Engine building and LS expert Mike Mavrigian guides readers through the best products and modification procedures to achieve maximum performance for a variety of applications To make more horsepower you need to flow more air and fuel into the engine therefore how to select the industry leading aftermarket heads and port the stock heads for superior performance are comprehensively covered The cam controls all major timing events in the engine so determining the best cam for your engine package and performance goals is revealed But these are just a few aspects of high performance Gen IV engine building Installing nitrous oxide or supercharger systems and bolting on cold air intakes aftermarket ignition controls headers and exhaust system parts are all covered in detail The foundation of any engine build is the block and crucial guidance for modifying stock blocks and aftermarket block upgrade advice is provided Crankshafts pistons and rods valvetrain oiling systems intakes and fuel injection cooling systems are all covered so you can build a complete high performance package Muscle car owners LS engine builders and many enthusiasts have migrated to the Gen IV engine platform so clear concise and informative content for transforming these stock engines into top performers for a variety of applications is essential A massive amount of aftermarket parts is available and this provides guidance and instructions for extracting top performance from these engines If you re searching for an authoritative source for the best components and modifications to create the ultimate high performance packages then you ve found it

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Donny'S Unauthorized Technical Guide to Harley-Davidson, 1936 to Present Donny Petersen,2016-10-29 Donny Petersen feels honored to share the wealth of his motorcycle knowledge and technical expertise He offers the real deal in understanding the Harley Davidson He gives workable solutions for whatever ails the 1957 to 1985 H D Ironhead Sportster Graphics pictures and charts guide the reader on a sure footed journey to a thorough understanding Donny intersperses the technical explanations with entertaining

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su libretto di da ponte le mariage de figaro di beaumarchais cui si ispira era stata vietata dall'imperatore giuseppe ii a causa dei forti contenuti politici ma mozart ebbe il permesso di rappresentarla come opera comica

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