

Torque - ing Wheel nuts/studs

Why do we need to TORQUE the wheels?

- Torqued wheel nuts/bolts are intended to stretch slightly when correctly tightened within specifications. In the case of wheel studs and nuts or wheel bolts, this provides the correct pre-load required for the wheel and the hub to be safely locked and secured.
- If the wheel nuts/bolts are insufficiently tightened, the nuts/bolts could come loose, causing safety and vehicle damage.
- If the wheel nuts/bolts are over tightened, the wheel stud or bolt can be permanently stretched where it will be required to expand the wheel rings, or even break during tightening.
- The only way to ensure the correct torque settings is with the use of a quality and properly calibrated, or an air torque wrench used in taking the time to tighten the wheel nuts/bolts correctly.
- Never use an air impact wrench to tighten wheel nuts/bolts. You will not be able to accurately control the torque, and an impact that is overly damaged the wheel nuts/bolts under the tire and surface area. When working with steel wheels in particular, with damage, even if temporary, is simply not acceptable.

CAUTION:

- **Do not use the WRECK WRENCH on the wheel.**
- **Do not lubricate the fasteners.**
- **Always use sockets that fit the wheel and the hub or bolt properly.**
- When fitting the wheels, don't make the mistake of finger tightening the wheel nuts/bolts and then leaving the vehicle to the ground to finish tightening. It is best to perform your complete fitting procedure while the vehicle is supported off the ground. If the wheel or hub surfaces are not properly seated, the weight of the vehicle will result in uneven deformation (due to vehicle weight), which will result in wrong torque settings and wheel damage.
- In order to prevent the wheel from coming away the hub before an air wheel is fitted, use at a 90° angle of an air impact gun on the hub where the wheel and studs should make contact at correct alignment.
- Never use any form of lubricant grease or oil on the threads of the wheel bolts or wheel nuts. Lubrication will have a negative effect on the torque applied to the fasteners leading to incorrect torque of the components.
- The torque guidelines are given in different units (Nm, etc.).

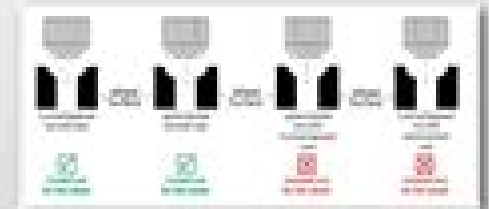
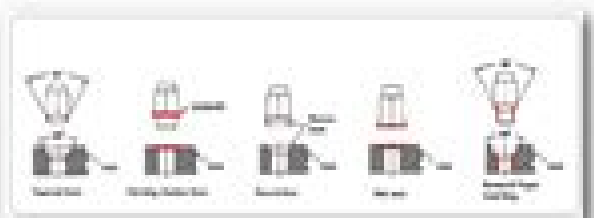
How to torque the wheel nuts/bolts correctly

- When possible always refer to the vehicle manufacturer's recommended torque settings.
- First tightening the wheel nuts/bolts using a calibrated, professional torque wrench correctly adjusted to the required torque settings at a rate not faster than 1/2 of the correct value.
- Always use a correct sequence (see diagram below).
- Do not over torque a wheel nut/bolt as it can strip the threads, stretch or break the wheel nuts/bolts, and cause distortion of the wheel, brake disc and/or brake drum.
- After fitting wheels it is advisable to re-torque the wheel nuts/bolts again after the first drive off. Inspection of driving to ensure that any compression of the wheel material is compensated for and torque levels are maintained at the safe specifications, especially with new alloy wheels.

What are the various fastener seat styles?

- The "seat" is the contact area between the fastener's head and the wheel.
- The seat style of the fastener must match that of the wheel.
- If the seat style is wrong, the wheel will not be properly fastened to the hub and will damage the wheel.
- The wheel will eventually become worn and visible as it moves in relation to the hub.
- Any play between the wheel and the nuts/bolts will damage the wheels, which could lead to loss of the structural integrity.
- Seat styles that describe the shape of the area where the fastener meets the hole in the wheel include:
 - **Flat**
 - **Coned**
 - **Flat (ring)**

TORQUE SEQUENCE



SUGGESTED TORQUE WRENCH SETTINGS in Nm

Bolt Size	Stud Size	Thread Pitch	Torque guide
Metric			
17	M20	1.25	88
18	M20	1.25	88
18	M18	1.25	110
18	M12	1.5	110
18	M11	1.25	110
21	M12	1.25	110
21	M11	1.5	110
21	M10	1.5	110
18	M14	1.5	115
21	M14	1.5	115
21	M18	2	115
22	M18	1.5	115
Imperial			
3/4"	1/2"	.20	110
1 1/8"	1/2"	.20	110
3/4"	1/2"	.20	88
1 1/2"	9/16"	.18	145

Wheel Torque Guide

Dudeja

A red circular graphic with a gradient, appearing as a stylized wheel or a decorative element, located to the right of the 'Dudeja' text.

Wheel Torque Guide:

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

Automotive Transmissions Yong Chen, 2020-07-30 This book introduces readers to the theory design and applications of automotive transmissions It covers multiple categories e g AT AMT CVT DCT and transmissions for electric vehicles each of which has its own configuration and characteristics In turn the book addresses the effective design of transmission gear ratios structures and control strategies and other topics that will be of particular interest to graduate students researchers and engineers Moreover it includes real world solutions simulation methods and testing procedures Based on the author's extensive first hand experience in the field the book allows readers to gain a deeper understanding of vehicle transmissions

Highway Safety Engineering Studies Procedural Guide, 1981

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Scheve,2008-05-05 Trailers are a fact of life in the horse world Sooner or later everyone who owns a horse will have to deal with a horse trailer in order to haul to shows races hunts and perhaps even to veterinary clinics Up to now when horse owners wanted information on trailers they had to rely on magazine articles or word of mouth recommendations Not anymore The Complete Guide to Buying Maintaining and Servicing a Horse Trailer is the first and only book for both owners and buyers of horse trailers It s a resource that gives prospective buyers faced with hundreds of models to choose from the means to make the right choice It s a manual that gives current owners information on maintaining and caring for their trailers Foremost they will learn from lifelong horsewoman Neva Scheve and Thomas G Scheve both respected industry insiders that the safety and comfort of the horse should always be the primary concern This authoritative book with more than 175 illustrations addresses a number of important topics including how to Determine whether to buy a new or a used trailer Ask the right questions of the dealer or owner Weigh the options and select the best model for your needs Evaluate tow vehicles and hitches Master pre trip preparations Care for your current trailer Load drive and use a trailer safely Deal with typical exterior interior electrical and mechanical problems Assess the work of repairmen if the job is more than you can handle Complete is not just an idle word this book has an appendix that gives the names and addresses of the major trailer manufacturers to contact for literature In all the Scheves have given horse owners everything they need to make an informed purchasing decision that will benefit themselves and their horses **The Pearson Guide To Objective Physics For The**

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Table of Contents Wheel Torque Guide

1. Understanding the eBook Wheel Torque Guide
 - The Rise of Digital Reading Wheel Torque Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Wheel Torque Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Wheel Torque Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Wheel Torque Guide
 - Personalized Recommendations
 - Wheel Torque Guide User Reviews and Ratings
 - Wheel Torque Guide and Bestseller Lists
5. Accessing Wheel Torque Guide Free and Paid eBooks
 - Wheel Torque Guide Public Domain eBooks

- Wheel Torque Guide eBook Subscription Services
- Wheel Torque Guide Budget-Friendly Options
- 6. Navigating Wheel Torque Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Wheel Torque Guide Compatibility with Devices
 - Wheel Torque Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Wheel Torque Guide
 - Highlighting and Note-Taking Wheel Torque Guide
 - Interactive Elements Wheel Torque Guide
- 8. Staying Engaged with Wheel Torque Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Wheel Torque Guide
- 9. Balancing eBooks and Physical Books Wheel Torque Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Wheel Torque Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Wheel Torque Guide
 - Setting Reading Goals Wheel Torque Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Wheel Torque Guide
 - Fact-Checking eBook Content of Wheel Torque Guide
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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