

## 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 nut 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 over-tighten WHEEL NUTS/BOLTS to the point:**
- **Do not lubricate the fasteners**
- **Always use nuts/bolts that fit the wheel and the hub or studs 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's 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 45° angle from an axle nut plate on the hub where the wheel and nuts/bolts were removed at correct deflation.
- 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.).

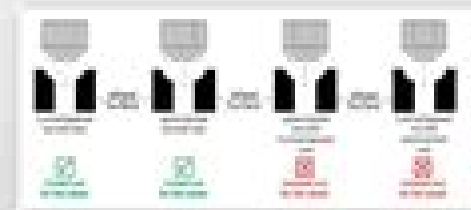
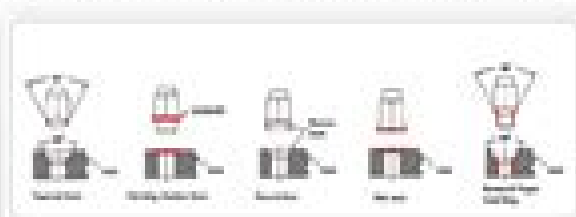
## How to torque the wheel nuts/bolts correctly

- 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 pre-set torque amount 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 noise, cracks/breaks etc.
- 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**
  - **Conical**
  - **Flat (ring)**

## TORQUE SEQUENCE



## SUGGESTED TORQUE WRENCH SETTINGS in Nm

Bolt Size	Stud Size	Thread Pitch	Torque guide
<b>Metric</b>			
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
<b>Imperial</b>			
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

**Richard Bailey**

A red circular graphic with a gradient, appearing as a stylized wheel or a light effect, positioned to the right of the author's name.

## **Wheel Torque Guide:**

**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

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

**Highway Safety Engineering Studies Procedural Guide**, 1981 This publication contains detailed guidelines for the planning conduct and use of safety engineering studies at identified hazardous locations The publication should be beneficial to highway engineers and other professionals involved in highway safety and or traffic operations The objectives of this publication are to 1 plan an effective highway safety engineering investigation of an identified hazardous location 2 perform a highway safety engineering investigation of an identified hazardous location using appropriate procedures and techniques 3 select the most appropriate procedures and techniques required for safety engineering studies considering agency size and type 4 identify safety deficiencies and feasible countermeasures that are necessary to alleviate the hazardous situation and 5 select a safety project based on safety objectives

**Operator's Organizational, DS, GS, and Depot Maintenance Manual**, 1970 **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 performancing 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 performancing 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 performanced 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 performancing 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 , **DS, GS, and Depot Maintenance Manual** ,1981 **The Complete Guide to Buying, Maintaining, and Servicing a Horse Trailer** Neva Kittrell 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 Complete Bike Owner's Manual** DK,2017-06-13 With this full color illustrated manual in your toolbox you will never need to visit the bike repair shop again From planning regular maintenance to getting your hands dirty for emergency repairs The Complete Bike Owner s Manual will help you

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