

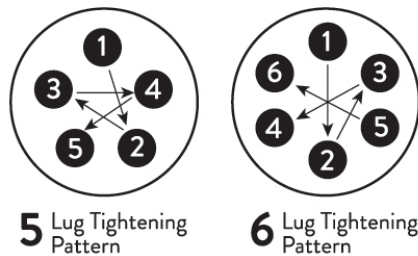
## Wheel Nut Torque Settings Information Sheet

Australian Off Road in consultation with hub manufacturers and numerous wheel manufacturers have created a guide for wheel nut settings for your trailer. This guide will cover everything from wheel nut torque settings, wheel nut tightening techniques and patterns to wheel nut tightening service intervals.

### TIGHTENING OF WHEEL NUTS

To ensure that the wheel is located on the hub properly, please use the following steps to correctly carry out this task:

- Ensure the hub surface is clean from dirt or mud
- Ensure the back of the wheel is clean from dirt or mud
- An impact / rattle gun if used, must only be used to “nip up” the wheel nuts (for speed)
- An impact gun should never be used to achieve the final wheel nut torque setting
- The correct nut torque sequence for the wheel must be used, to correctly and centrally locate the wheel on the hub of the trailer or caravan
- It is imperative that the final wheel nut torque be achieved manually, using a properly calibrated, high quality torque wrench



The table below outlines the torque settings for each of the braking systems/stud patterns used by AOR. Based on the recommendations presented by the various manufacturers, AOR suggests that our customers tension their wheel nuts somewhere between the wheel manufacturers guide and the hub manufacturers torque setting @ 80% of max.

\*\*\*\*Example – A 2018 built AOR Quantum Plus with 6 Stud Hubs, the wheel nut torque setting should be between 200 N.m and 135N.m of torque.

HUB TYPE	PCD	STUD SIZE	STEEL GRADE	MANUFACTURER MAX TORQUE		HUB MANUFACTURER TORQUE @ 80% of MAX		WHEEL MANUFACTURERS TORQUE GUIDE	
				N.m	Ft.lb	N.m	Ft.lb	N.m	Ft.lb
Cruisemaster 6 STUD	6/139.7	1/2" UNF	SAE Grade 8	250	184	200	147	135	100
Cruisemaster 5 STUD	5/150	M14 x 1.5	Class 10.9	306	226	245	181	209	154
Al-ko 5 STUD	5/150	M14 x 1.5	Class 10.9	306	226	245	181	209	154
Al-ko 6 STUD	6/139.7	M12 x 1.5	Class 10.9	194	143	155	114	135	100

\*\*\*AOR Trailers manufactured before November 2017 used Al-ko Hubs. All trailers manufactured November 2017 to present use Cruisemaster hubs.

### WHEEL NUT RE-TORQUE INTERVALS

Initially when you take delivery of the trailer, the wheel nuts need to be checked after 100km, 300km and 1000km just for the settling in period. For off-road and abnormal conditions maintenance intervals will need to be more frequent and daily visual inspections are recommended.