

Torque Requirements



It is a necessary procedure to periodically check the torque levels of your wheel nuts. They must be maintained at the appropriate level to prevent loose or damaged wheels, potentially broken studs and to prevent wheel separation from the axle.

Recommended Torque Values

BOLT PATTERN	WHEEL TYPE	THREAD SIZE	MOUNTING PILOT	NUT TYPE	TORQUE (FT. LBS)
5 on 4.5" to 5.5"	Single	.5"-20	Stud	60 Deg. Cone	80 - 90
6 on 5.5"	Single	.5"-20	Stud	60 Deg. Cone	80 - 90
8 on 6.5"	Single	.5"-20	Stud	60 Deg. Cone	80 - 90
8 on 6.5"	Single	.5625"-18	Stud	60 Deg. Cone	130 - 150
8 on 6.5"	Single	.5625"-18	Hub	90 Deg. Cone	175 - 200
8 on 6.5"	Single	.625"-18	Hub	90 Deg. Cone	175 - 200
8 on 6.5"	Dual	.5625"-18	Hub	Two Piece Flange	125 - 165
8 on 6.5"	Dual	.625"-18	Stud	One Piece Flange	275 - 325
8 on 6.5"	Dual	.625"-18	Hub	Two Piece Flange	130 - 170
8 on 6.5"	Dual	.625"-18	Hub	90 Deg. Cone w/ Clamp Ring	175 - 225
8 on 6.5"	Dual	M14x1.5	Hub	90 Deg. Cone w/ Clamp Ring	136 - 144
8 on 170mm	Dual	M14x2.0	Hub	Two Piece Flange	150 - 160
8 on 225mm	Dual	M14x2.0	Hub	Two Piece Flange	150 - 160
8 on 275mm	Dual	M20x1.5	Hub	Two Piece Flange	280 - 330
10 on 7.25"	Dual	.5625"-18	Hub	Two Piece Flange	125 - 165
10 on 7.25"	Dual	.625"-18	Hub	90 Deg. Cone w/ Clamp Ring	171 - 179
6 on 8.75" - 10 on 8.75" & 11.25"	Dual	.75"-16	Stud	.875" Spherical Radius Inner Ball Seat	450 - 500
6 on 8.75" - 10 on 8.75" & 11.25"	Dual	1.125"-16	Stud	.875" Spherical Radius Outer Ball Seat	450 - 500
8 on 275mm - 10 on 285.75mm & 335mm	Dual	M22x1.5	Hub	Two Piece Flange	450 - 500
Cast Spoke	Rim	.625"-11	N/A	Flat Nut	160 - 200
Cast Spoke	Rim	.75"-10	N/A	Flat Nut	200 - 260

Note: The above table is a generalization of basic values. Consult your wheel manufacture and axle manufacture for specific values.

Torque Procedure

1. After mounting a wheel over the studs, thread and snug the lug nuts on the studs by hand. This will reduce the possibility of cross threading.
2. Following the order of the "Torque Sequence" illustration for your particular bolt pattern, torque the lug nuts to 25 ft. lbs.
3. Again, in sequential order, torque the lug nuts to 50% of their final torque value.
4. Finally, in sequential order, torque the lug nuts to 100% of their final torque value.
5. Re-torque after the first 25 miles, 50 miles, and again at 100 miles of use. Check periodically thereafter

