

Subject

Brake Vibration - Importance of Lug Nut Torque

Market

USA

Service Category

Brake

Section

Brake (front)

Applicability

All vehicles

APPLICABLE VEHICLES

2013-2016	Highlander	2013-2016	Prius
2013-2016	Sienna	2013-2016	Tundra
2016-2017	Mirai	2013-2016	Land Cruiser
2012-2016	4Runner	2013-2016	Sequoia
2013-2016	Avalon	2016-2017	RAV4 HV
2013-2016	Venza	2017	Prius Prime
2013-2016	Tacoma	2013-2016	Yaris
2017	86	2013-2016	Corolla
2013-2016	Camry	2013-2016	Avalon HV
2013-2017	Prius V	2013-2016	RAV4
2016-2017	Yaris R	2017	iM
2013-2017	Prius C	2013-2016	Highlander HV
2013-2016	Camry HV		

CONDITION

Front Brake Vibration Key Points:

- Issue can occur at any time if improper torque is applied on lug nuts
- Over time, even one lug nut over or under torqued, can cause a vibration issue
- When lug nuts are over torqued, this causes the rotor to have a runout out condition which can lead to brake vibration concerns
- Brake vibration issues can occur at parking lot to highway speeds
- Brake vibration issues can occur at light to moderate braking
- Tightening lug nuts in a star pattern method during the torquing process will assure that even/equal pressure is applied across the rotor hub surface
- Torque sticks/wrenches should be used to apply accurate torque values when tightening
- **Do Not** use impact guns/ratchets to completely run lug nuts up to the wheel surface

RECOMMENDATIONS

When performing service on a vehicle that requires the installation of wheel lug nuts, it is critical that the technician ensures that lug nut torque matches the repair manual specification for that particular vehicle and a star pattern method is performed during the lug torque procedure.

LINK REFERENCES

This Tech Tip does not contain any link references