| Subject | Market |
|---|---|
| **Brake Vibration - Importance of Lug Nut Torque** | USA |
| **Service Category** | **Section** |
| Brake | Brake (front) |
| **Applicability** | |
| All Lexus Vehicles | |

## APPLICABLE VEHICLES

| | | | |
|---|---|---|---|
| 2015-2017 | RC F | 2015-2017 | RC350 |
| 2015-2017 | NX300H | 2012-2015 | IS250C |
| 2016-2017 | GS F | 2013-2016 | ES350 |
| 2013-2016 | LS600H | 2013-2016 | LS460 |
| 2013-2016 | GX460 | 2016-2017 | RC300 |
| 2013-2016 | RX450H | 2013-2015 | IS250 |
| 2013-2016 | CT200H | 2013-2016 | GS350 |
| 2016-2017 | GS200T | 2013-2016 | IS350 |
| 2013-2016 | RX350 | 2015-2017 | NX200T |
| 2012-2015 | IS350C | 2013-2016 | GS450H |
| 2016-2017 | RC200T | 2013-2016 | LX570 |

## 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 torqueing 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




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