

# 2009 - 2011 Corvette: GM TechLink: Tire Vibration

**Source:** GM Techlink

**Date:** September 2010

**Subject:** Corvette Tire Vibration

**Models:** 2009 - 2011 Chevrolet Corvette

A slight vibration in the steering wheel may be noticed on 2009-2011 Corvette models when traveling between 72 and 78 MPH (116 and 126 km/h).

The tires are known to flat spot when parked and this condition may be present until the tires warm up. This condition should clear up after approximately 30 minutes of driving.

Prior to beginning diagnosis, drive the car for 30 minutes.

Next, check the tires for force variation to determine which tire(s) may be contributing to the vibration. 15 lbs. (6.8 kg) is considered acceptable.

Rotating the tires on the rim, called match mounting, may help reduce the force variation to below 12 lbs. (5.4 kg). Rotate the tire/wheel assembly on the hub one lug at a time and then test drive the vehicle. There can be a stack up of tolerance between the lug nuts and the lugs on the front hub, which can contribute to the vibration condition.

If, after performing these procedures, a slight vibration still exists, it is considered a normal characteristic of the vehicle.

*- Thanks to Jeremy Richardson*

Online URL: <https://www.corvetteactioncenter.com/tech/knowledgebase/article.php?id=64>