

**Wheels:** An e-mail from Ron asks, “I have a 2000 Cadillac Seville SLS with 4,000 miles. It has a vibration between 40 and 50 mph that can be felt in the seat of your pants and the steering wheel. The engine’s RPM makes no difference – some days it is worse than others. Do I have to put up with this vibration? It is not the tires. I’ve had all new ones put on.”

**Halderman:** A vibration that you feel in the seat of your pants usually indicates out-of-round or out-of-balance rear tires. If you feel the vibration in the steering wheel, a problem with the front wheels or tires is usually indicated. Because you stated that new tires have been installed, I would suggest that the wheels be carefully inspected and measured for excessive radial and lateral runout using a dial indicator. A maximum of 0.045-inch runout is recommended. Also be sure that a torque wrench is used to install the wheels. Unequal torque caused by using an air impact can cause a vibration unless special torque absorbing sockets are used.

