



Automotive Safety Engineering Pty Ltd

ABN 88 066 476 051

Postal Address: PO Box 113, LONSDALE, SA, 5160.

Test Facility: 28 Donegal Road, LONSDALE, SA, 5160.

Mobile: 0417 845 711

Email: ase@internode.on.net
Web: www.autosafety.com.au



Phone: 08 8384 7863

Fax: 08 8384 3447

VIBRATION DURABILITY TEST TO WHEEL COVERS

A wheel cover is a decorative disk on a automobile wheel that covers at least a central portion of the wheel. Cars with stamped steel wheels often use a full wheel cover that conceals the entire wheel.

Wheel covers can also refer to an accessory covering and external rear mounted spare tire found on off road or survival type vehicles

Wheel covers which compromises a wheel cap and a hub cap protects the car wheel and the hub from being contaminated by dirt or slurry.



At ASE we perform vibration durability tests to wheel covers according to TSM0502G Rev 10 Trunk Room test conditions. This means that ASE uses a frequency of 11Hz, a vertical vibration acceleration of 59.8m/s^2 , a lateral vibration acceleration of 36.3m/s^2 , a duration of 3,000,000 cycles (76.76h) and at a normal temperature.

The objective for this test is to identify possible fatigue and resonance problems that might affect a structural integrity of the tested structure.