

Figure 2b: Addition of Damped Upper Baffle to empty HSTS structure (Transverse)

When a damped baffle panel is added to the empty HSTS structure, the transverse flagpole resonance (~75 Hz) is unaffected. Higher resonances are damped including the next transversely-coupled resonance (~160 Hz, dominantly torsional based on off-COM excitations not pictured).

Excitation is applied to the suspension cage in the Y direction (transverse) without a moment arm about COM, with the accelerometer mounted to the suspension cage as well.

Measurement 44 is a baseline measurement of the empty HSTS structure

Measurement 29 includes a mounted Upper Baffle panel with D1700232, mounting bolts tightened 1/2 turn past hand tight

