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# Technical Bulletin

## **Hybrid III Knee Slider Certification Tests**

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# Hybrid III knee slider certification tests

## Background

A low speed knee slider certification test was developed and agreed by the Euro NCAP Technical Working Group (TWG) in July 2007 due to concerns over the damage caused by the displacement (18mm) and frequency (every 3 tests) of the 'full' certification test (SAE EA23). In August 2002, Euro NCAP modified the requirements for Hybrid III knee slider certification. The frontal impact testing protocol was modified to require that the knee slider shall be certified to 10mm after every three full scale tests and to 18mm after every 9 full scale tests.

A meeting of the SAE Dummy Testing Equipment Subcommittee (DTES) found that the tolerances for the low speed test required by Euro NCAP were too tight. Subsequently, the DTES began a programme to develop more representative performance corridors for the test. This led to the development of a low speed knee slider certification test, SAE J2876. A report on this work was provided to the Euro NCAP Technical Working Group (TWG) in September 2008. The TWG agreed that, once formally published, J2876 would be adopted by Euro NCAP in place of the existing knee slider certification test.

The Hybrid III knee slider certification requirements are as follows:

**The Hybrid III dummy knee slider should meet both the low speed test as prescribed by SAE J2876, as well as the certification test specified in SAE EA23 for future Euro NCAP testing.**

**The low speed test is required after every three full scale impacts. The high speed tests is required after every nine full scale impacts.**

## Implementation date:

Application date for this additional certification test – **immediate, all results published from and including August 2009 will comply with this procedure.**