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Technical Bulletin

WorldSID Temperature Measurement

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Contents

1. Background	1
2. Sensor placement	1

1. Background

During the work of the Euro NCAP side impact working group (SIWG), it was found that with the use of onboard temperature sensors on the WorldSID dummy the recorded temperature varied according to the location of the sensor and the type of data acquisition system (DAU) used.

In order to limit the influence of DAU on the dummy temperature, it was decided that a standardised position be used for the temperature sensor. Information from ADAC, Humanetics, BMW and Porsche found established a suitable location for the sensor.

2. Sensor placement

The Euro NCAP side MDB and pole impact protocols state:

The temperature shall be measured using an onboard sensor located on the first thoracic non struck side rib blue band mounting plate as far from the spine box as possible.

The picture below illustrates the location of the temperature sensor, which is highlighted by the green arrow.

