

RATIONALE

As the number of active-safety-system-equipped motor vehicles has increased, the number of terms, abbreviations, and acronyms that describe these systems has increased. For the sake of industry standardization of engineering terms and definitions, the SAE Active Safety ADAS Sensor Calibration Task Force prepared this document to define terms related to advanced driver assistance systems (ADAS) sensor calibration. These definitions include a basic definition along with additional detail on how these terms relate to performing ADAS sensor calibrations.

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1. SCOPE

This SAE Information Report provides a compendium of terms, definitions, abbreviations, and acronyms to enable common terminology for use in engineering reports, diagnostic tools, and publications related to active safety systems. This information report is a survey of terms related to calibration of active safety systems. The definitions offered are descriptions of inputs, outputs, and processes rather than technical specifications. Definitions for end-of-line procedures are not included.

2. REFERENCES

2.1 Applicable Documents

The following publications form a part of this specification to the extent specified herein. Unless otherwise indicated, the latest issue of SAE publications shall apply.

2.1.1 SAE Publications

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or +1 724-776-4970 (outside USA), www.sae.org.

SAE J670 Vehicle Dynamics Terminology

2.2 Related Publications

The following publications are provided for information purposes only and are not a required part of this SAE Technical Report.

2.2.1 SAE Publications

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or +1 724-776-4970 (outside USA), www.sae.org.

SAE J3016 Taxonomy and Definitions for Terms Related to Driving Automation Systems for On-Road Motor Vehicles

SAE J3063 Active Safety Systems Terms and Definitions

SAE J3088 Active Safety System Sensors

SAE J3265 Naming Methodology for Driving Automation Systems

EPR2021008 Unsettled Issues on Sensor Calibration for Automotive Aftermarket Advanced Driver-Assistance Systems

3. DEFINITIONS

3.1 VEHICLE BODY CENTERLINE

A longitudinal line between the center of the body's front and the center of the body's rear.

NOTE: Vehicle body centerline is commonly referenced by vehicle emblems and roof antennas. Refer to SAE J670, Section 3 for more detail regarding the vehicle coordinate system.

3.2 CHASSIS GEOMETRIC CENTERLINE

A line that intersects the center of the rear axle and center of the front axle.

NOTE: Refer to SAE J670, Section 3 for more detail regarding the vehicle coordinate system.