SURFACE VEHICLE STANDARD

J2040™	FEB2024

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Superseded by J585

Tail Lamps (Rear Position Lamps) for Use on Vehicles 2032 mm or More in Overall Width

RATIONALE

This document has been superseded by SAE J585, which now incorporates and should be used for tail lamps (rear position lamps) for use on vehicles 2032 mm or more in overall width in place of SAE J2040.

CANCELLATION NOTICE

This technical report has been declared “CANCELLED” as of February 2024 and has been superseded by SAE J585. By this action, this document will remain listed in the respective index, if applicable. Cancelled technical reports are available from SAE.

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Full document details: SAE J2040_202402

1. SCOPE

This SAE Standard provides test procedures, requirements, and guidelines for tail lamps intended for use on vehicles 2032 mm or more in overall width. Tail lamps conforming to the requirements of this document may also be used on vehicles less than 2032 mm in overall width.

2. REFERENCES

2.1 Applicable Publications

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

SAE J387 Terminology Motor Vehicle Lighting

SAE J576 Plastic Material for Use in Optical Parts Such as Lenses and Reflectors of Motor Vehicle Lighting Devices

SAE J578 Color Specification

SAE J759 Lighting Identification Code

SAE J1889 L.E.D. Signal and Marking Lighting Devices

SAE J2139 Tests for Lighting Devices, Reflective Devices and Components Used on Vehicles 2032 mm or More in Overall Width

2.2 Related Publications

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

Attention is called to the following documents for additional information on lamp design and installation requirements.

2.2.1 SAE Publications

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

SAE J567 Lamp Bulb Retention System for Requirements and Gages used in Retention System Design

SAE J1330 Laboratory Accuracy Guidelines

SAE 830566 Motor Vehicle Conspicuity, R. L. Henderson, K. Ziedman, W.J. Burger, and K.E. Cavey, National Highway Traffic Safety Administration

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2.2.2 FMVSS Publications

Available from the Superintendent of Documents, U. S. Government Printing Office, Mail Stop: SSOP, Washington, DC 20402-9320.

Federal Motor Vehicle Safety Standard 49CFR 571.108

Federal Motor Carrier Safety Administration 49CFR part 393 Subpart B

2.2.3 TMC and TTMA Publications

Available from the Technology and Maintenance Council, American Trucking Associations, 950 North Glebe Road, Suite 210, Arlington, VA 22203-4181, Tel: (703) 838-1700, www.truckline.com.

TTMA #RP-9 Location of Lighting Devices for Trailers

TMC #RP-702A Trailer Lamp and Reflector Placement

TMC #RP-704B Heavy Duty Lighting Systems for Trailers

TMC #AV 7-1 Heavy Duty Lighting Systems for Trailers

3. DEFINITIONS

3.1 TAIL LAMP

Tail Lamp (Rear Position) - Whether separate or in combination with other lamps, tail lamps are located on both the left and right rear of a vehicle to indicate the presence and width of a vehicle by a steady operating, low intensity light when viewed from the rear.

3.2 The terminology contained in SAE J387 shall apply to this standard.

4. LIGHTING IDENTIFICATION CODE

Tail lamps for use on vehicles 2032 mm or more in overall width may be identified by the code “T2” in accordance with SAE J759.

5. TESTS

5.1 Tests for Lighting Devices, Reflective Devices, and Components Used on Vehicles 2032 mm or More in Overall Width

SAE J2139 is a part of this document. The following tests are applicable with modification as indicated.

5.1.1 Vibration

5.1.2 Moisture

5.1.3 Dust

5.1.4 Corrosion

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