



SURFACE VEHICLE RECOMMENDED PRACTICE

J1432™

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Superseding J1432 JAN2016

High Mounted Stop and Turn Signal Lamp
for Use on Vehicles 2032 mm or More in Overall Width

RATIONALE

Document Title: Removed the word "Rear" from title.

1 Scope revised to include applicability to front High Mounted Turn Signal Lamp(s).

2.1.1 J578 Title updated to match revised document. Reference to J2261 replaced with reference to J586 and J588.

2.2.1 Title updated to match revised document.

2.2.2 Revised to match current information and current SAE document convention.

2.2.3 Deleted, information (FMVSS 108) moved into 2.2.2.

3.1 & 3.2 Revised using Center High Mounted Stop Lamp definition as outlined in J387 as a guide to provide more detail in the definition.

3.1 Reference to J2261 replaced with reference to J586.

3.2 Reference to J2261 replaced with reference to J588. Revised to include front high mounted turn signals.

2.2.3 Added Truck Trailer Manufacturers Association Publications as separate section.

2.2.4 Added Technology and Maintenance Council Publications as separate section.

5.1.6.1 Removed verbiage due to same information being included in J2139.

5.1.6.2 Removed due to same information being included in J2139.

5.4.1 Revised to indicate applicability to rear lamp(s).

6.2 Updated wording for better clarity.

6.6.7 Deleted 6.6.7 and moved information to 6.2.

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1. SCOPE

This SAE Recommended Practice provides test procedures, requirements, and guidelines for high-mounted stop lamps and high-mounted turn signal lamps intended for use on vehicles 2032 mm or more in overall width. This document applies to trucks, motor coaches, van type trailers, and other vehicles with permanent structure greater than 2800 mm high.

This document does not apply to school buses, truck tractors, pole trailers, flat-bed trailers, pick-up trucks with dual wheels, and trailer converter dollies.

The purpose of the high-mounted stop lamp(s) and high-mounted turn signal lamp(s) is to provide a signal to the driver of following (approaching a signaling vehicle from the rear) or oncoming (approaching a signaling vehicle from the front) vehicles over intervening vehicles.

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 International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 1-877-606-7323 (U.S. and Canada only) or 1-724-776-4970 (outside U.S. and Canada), www.sae.org.

SAE J387	Terminology - Motor Vehicle Lighting
SAE J576	Plastic Material or Materials for Use in Optical Parts Such as Lenses and Reflex Reflectors of Motor Vehicle Lighting Devices
SAE J578	Chromaticity Requirements for Ground Vehicle Lamps and Lighting Equipment
SAE J586	Stop Lamps for Use on Motor Vehicles Less than, Equal to, or Greater than 2032 mm in Overall Width
SAE J588	Turn Signal Lamps for Use on Motor Vehicles Less than 2032 mm in Overall Width
SAE J759	Lighting Identification Code
SAE J1889	LED Signal and Marking Lighting Devices
SAE J2139	Tests for Signal and Marking Devices 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 SAE Technical Report.

2.2.1 SAE Publications

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

SAE J567	Light Source Retention System
SAE J1957	Center High Mounted Stop Lamp Standard for Vehicles Less than 2032 mm in Overall Width
SAE J2577	Heavy Duty Lamp Electrical Connector Standard

2.2.2 Federal Publications

Available from Transport Canada, Multi-Modal and Road Safety Programs, 330 Sparks Street, Ottawa, Ontario K1A 0N5, Canada, Tel: +1-613-998-8616, or +1-800-333-0371, mvs-sa@tc.gc.ca, <https://tc.canada.ca/en/corporate-services/acts-regulations/list-regulations/motor-vehicle-safety-regulations-crc-c-1038>

Canada Motor Vehicle Safety Standard 108 (CMVSS 108) – Lighting Systems and Reflective Devices

Available from the Superintendent of Documents, U.S. Government Printing Office, Mail Stop: SSOP, Washington, DC 20402-9320 or at <http://www.gpoaccess.gov/cfr/index/html>.

CFR Title 49 Part 393.11 Lamps and Reflective Devices

CFR Title 49 Part 571.108 Lamps, Reflective Devices and Associated Equipment (FMVSS 108)

2.2.3 Truck Trailer Manufacturers Association Publications

Available from Truck Trailer Manufacturers Association, 7001 Heritage Village Plz, Suite 220, Gainesville, VA 20155-3094, Tel: 703-549-3010, <http://trucktrailer.org>.

RP-9 Location of Lighting Devices for Trailers

2.2.4 Technology and Maintenance Council Publications

Available from the Technology and Maintenance Council, American Trucking Associations, 80 M Street SE, Suite 800, Washington, DC 20003-3557, Tel: 703-838-1763, <http://tmc.trucking.org>.

RP-148 Exterior Lighting Systems for Signaling, Marker, Clearance and Identification Lamps

RP-702C Trailer Lamp and Reflector Placement

RP-704C Heavy-Duty Lighting Systems for Trailers

RP-1430 Lamp and Reflector Placement For Light- and Medium-Duty Vehicles With Liftgates

3. DEFINITIONS

3.1 High-Mounted Stop Lamp (HMSL)

An additional lamp of the stop lamp system described in SAE J586 and defined in SAE J387, mounted at any distance above the required Stop Lamp(s) giving a brake actuated steady operating light to the rear of the vehicle. The High Mounted Stop Lamp(s) intent is to provide a stop signal to both the operator of the immediately following vehicle as well as operators further behind, through or over intervening vehicles.

3.2 High-Mounted Turn Signal Lamp (HMTSL)

An additional lamp of the turn signal lamp system described in SAE J588 and defined in SAE J387 giving a turn actuated direction indicator light of the vehicle. The High Mounted Turn Signal Lamp(s) intent is to provide a turn signal direction indication to both the operator of the immediately following and/or approaching vehicle(s) as well as operators at a further distance behind or in front of, through or over intervening vehicles.

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

4. LIGHTING IDENTIFICATION CODE

High-mounted stop lamp and high-mounted turn signal lamp for use on vehicles 2032 mm or more in overall width may be identified by the code U in accordance with SAE J759.