



SURFACE VEHICLE STANDARD

J593™

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Superseding J539 AUG2010

Backup Lamp (Reversing Lamp)

RATIONALE

Changing "bulb filament" to "light source" in 5.1.5.2.

1. SCOPE

This SAE Standard provides installation requirements, test procedures, design guidelines, and performance requirements for backup/reversing lamp.

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 J567	Light Source Retention System
SAE J575	Test Methods and Equipment for Lighting Devices for Use on Vehicles Less than 2032 mm in Overall Width
SAE J576	Plastic Material or Materials for Use in Optical Parts Such as Lenses and Reflex Reflectors of Motor Vehicle Lighting Devices
SAE J578	Color Specification
SAE J759	Lighting Identification Code
SAE J1330	Photometry Laboratory Accuracy Guidelines

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Documents

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3. DEFINITIONS

3.1 BACKUP LAMP

A lighting device used to provide illumination behind the vehicle and to provide a warning signal to pedestrians and other drivers when the vehicle is backing up (reversing) or is about to back up.

3.2 POINT OF VISIBILITY

Any point on the lens surface which is within an area bounded by the intersection of the lens surface with a 25 mm diameter cylinder, the centerline of which passes through the light source center and is oriented horizontally and parallel with the longitudinal axis of the vehicle.

4. LIGHTING IDENTIFICATION CODE

Backup Lamps may be identified by the code "R" in accordance with SAE J759.

5. TESTS

5.1 SAE J575 is a part of this report. The following tests are applicable with modifications as indicated:

5.1.1 Vibration Test

5.1.2 Moisture Test

5.1.3 Dust Test

5.1.4 Corrosion Test

5.1.5 Photometric Test

5.1.5.1 Photometric tests shall be made with the photometer at a distance of at least 3 m from the lamp. The H-V Axis shall be taken as the horizontal line through the light source and parallel with the longitudinal axis of the vehicle.

5.1.5.2 Photometric measurements shall be made with the light source steadily burning.

5.1.6 Warpage Test (on Devices with Plastic Components)

5.2 Color Test

SAE J578 is part of this report.

5.3 Materials Test

SAE J576 is part of this report.

6. REQUIREMENTS

6.1 A device when tested in accordance with the test procedures specified in Section 5 shall meet the requirements as specified in SAE J575 unless otherwise noted.

6.1.1 Vibration

6.1.2 Moisture