

	SURFACE VEHICLE STANDARD	SAE	J581 SEP2010
		Issued Revised	1979-03 2010-09
		Superseding	J581 JUL2004
Auxiliary High Beam Lamps			

RATIONALE

Change lamp aim to bring this Standard in line with latest practices. The aim of high beam headlights was changed from aiming the center of the high intensity zone below the H-H line to on the H-H line to improve obstacle detection many years ago. Auxiliary high beam Lamp performance would improve by aiming in the same manner as a high beam headlamp.

1. SCOPE

This SAE Standard provides test procedures, performance requirements and guidelines for auxiliary high beam lamps.

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 724-776-4970 (outside USA), www.sae.org.

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 J599	Lighting Inspection Code
SAE J759	Lighting Identification Code

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http://www.sae.org/technical/standards/J581_201009**

2.2 Related Publications

The following publications are provided for information purposes only and are not a required part of this document.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 724-776-4970 (outside USA), www.sae.org.

- SAE J1383 Performance Requirements for Motor Vehicle Headlamps
- SAE J2009 Discharge Forward Lighting System and Subsystems
- SAE J2139 Tests for Signal and Marking Devices Used on Vehicles 2032 mm or More in Overall Width
- SAE J2282 Distributed Lighting Systems (DLS)

3. DEFINITIONS

3.1 AUXILIARY HIGH BEAM LAMP

A lighting device mounted to provide illumination forward of the vehicle and intended to supplement the high beam of a standard headlamp system. It is not intended for use alone or with the lower beam of a standard headlamp system. An auxiliary highbeam lamp may also be known as an, auxiliary upper beam lamp or auxiliary driving lamp.

4. LIGHTING IDENTIFICATION CODE

The auxiliary high beam lamps may be identified by the code "Y," in accordance with SAE J759.

5. TESTS

5.1 SAE J575

The following test procedures in SAE J575 are a part of this report with the modifications indicated:

5.1.1 Vibration Test

5.1.2 Moisture Test

5.1.3 Dust Test

(Dust test shall not be required for sealed units.)

5.1.4 Corrosion Test

5.1.5 Warpage Test

(Devices produced from plastic components.)

5.1.6 A Photometric Test

- 5.1.6.1 The photometric tests for replaceable bulb units shall be made at a distance of at least 18.3 m (60 ft) from the photometer to the lamp.

5.1.6.2 Lamp Aim

A lamp or sealed beam unit, which is designed to be aimed mechanically, shall be centered on the photometric axis with the aiming planes normal to that axis. A lamp or sealed unit, not designed to be aimed mechanically, shall be photoelectrically aimed so that the test points in Figure 1 designated by the squares have equal intensity and those designated by triangles have equal intensity. The intensity at 0.95U/V and 0.95D/V shall be equal and the intensity at 0.3D/2.9L and 0.3D/2.9R shall be equal.

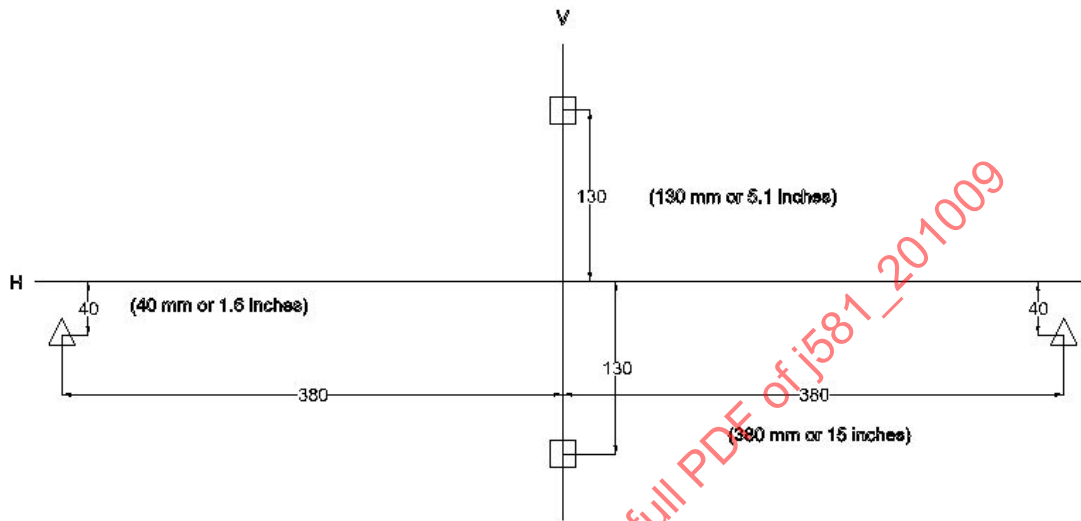


FIGURE 1 - TEST POINTS LOCATIONS
(on a screen at 7.6 m)

5.2 Color Test

SAE J578 is a part of this report.

5.3 Plastic Materials

Plastic materials used in optical parts shall be tested in accordance with the procedures in SAE J576.

6. REQUIREMENTS

6.1 Performance Requirements

A device when tested in accordance with the test procedures in Section 5, shall meet the following requirements in SAE J575, with the modifications indicated:

6.1.1 Vibration

6.1.2 Moisture

6.1.3 Dust

6.1.4 Corrosion

6.1.5 Warpage Test on Devices with Plastic Components