

 SURFACE VEHICLE STANDARD	SAE	J280 MAR2011
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Superseding J280 FEB2006		
Snowmobile Headlamps		

RATIONALE

No changes have been made to this document.

FOREWORD

This SAE Standard is intended as a guide toward standard practice, but may be subject to frequent change to keep pace with experience and technical advances. Hence, its use where flexibility of revision is impractical is not recommended.

1. SCOPE

This standard provides test methods and requirements for snowmobile headlamps.

2. REFERENCES

2.1 Applicable Publication

The following publication forms a part of the specification to the extent specified herein. Unless otherwise indicated the latest revision of SAE publications shall apply.

2.1.1 SAE Publication

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 J575 Tests for Motor Vehicle Lighting Devices and Components

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The following sections from SAE J575 are a part of this document:

Section 3 – Definitions
Section 3.2 – Bulbs
Section 4.1 – Vibration Test
Section 4.2 – Moisture Test
Section 4.3 – Dust Test
Section 4.4 – Corrosion Test
Section 4.5 – Photometry
Section 4.6 – Warpage Test Devices with Plastic Lenses

Color Test – The light shall be white to amber.

Sealed Beam headlamps do not need to comply with Sections 4.3 and 4.4 of SAE J575.

3. DEFINITIONS

3.1 Snowmobile Headlamps

Snowmobile headlamps are one or more lamps mounted on the front of a snowmobile used as the major lighting device to provide general illumination ahead of the snowmobile. The photometric requirements stated in Tables 1 and 2 represent the total headlamp illumination requirement for a snowmobile.

- 3.1.1 If multiple headlamps are used to meet this document, the combination of lamps, as mounted on the snowmobile, shall meet the requirements when treated as one lamp.
- 3.1.2 The headlamp shall not be obstructed by any part of the snowmobile throughout the photometric test angles for the lamp, unless the lamp is designed to comply with all photometric requirements with these obstructions considered.

4. AIMING ADJUSTMENT TESTS

- 4.1 A minimum aiming adjustment of ± 4 deg shall be provided in the vertical plane from a basic aiming position of 1/2 D-V (± 0.5 deg) with the machine on a hard surface, the suspension adjusted to the manufacturer's recommended setting and the machine loaded to simulate an 80 kg operator at the designated seating position.
- 4.2 The mechanism, including the aiming adjustment, shall be so designed as to prevent the unit from receding into the lamp body or housing when an inward force of 50 lb (22.7 N) is exerted at the geometric center of the outer surface of the lens.
- 4.3 When adjusting screws are employed, they shall be equipped with self-locking devices which will operate satisfactorily for a minimum of 10 adjustments on each screw, over a length of screw thread of $\pm 1/8$ in (3.175 mm).
- 4.4 Headlamp Mounting

The headlamp should be mounted on the snowmobile as high as practicable above the surface of the ground and below the snowmobile operator's line of sight.

In order to facilitate setting and maintaining the proper adjustment of the headlamp on snowmobiles in use, the following requirements for headlamp design and mounting shall be adopted and followed in general practice and be equally applicable to new designs of headlamps and headlamp mountings. Headlamps and headlamp mountings shall be designed and constructed so that: