

SEALED BEAM HEADLAMP—SAE J580

SAE Standard

Report of Lighting Committee approved March 1960.

Definitions

Sealed Beam Headlamp—A sealed beam headlamp including one or more sealed beam units is a major lighting device used to provide general illumination ahead of the vehicle.

Mounting Ring—The adjustable ring upon which the sealed beam unit is mounted in the headlamp.

Retaining Ring—The clamping ring that holds the sealed beam unit against the mounting ring.

Scope—This specification applies to the functional parts of the headlamp and does not include decorative doors or bezels which are not required for retaining the sealed beam unit.

Samples For Tests—See Section B of SAE Standard, Lighting Equipment for Motor Vehicles—SAE J575.

Laboratory Facilities—See Section D of SAE Standard, Lighting Equipment for Motor Vehicles—SAE J575.

Vibration Test—See Section E of SAE Standard, Lighting Equipment for Motor Vehicles—SAE J575.

Corrosion Test—See Section H of SAE Standard, Lighting Equipment for Motor Vehicles—SAE J575.

Sealed Beam Unit Tests—Sealed beam headlamp units are tested separately in accordance with SAE Standard, Sealed Beam Headlamp Units for Motor Vehicles—SAE J579.

Dimensional Checks—The mounting ring and the retaining ring shall comply with SAE Standard, Dimensional Specifications for Sealed Beam Headlamp Units—SAE J571, Figs. 2 and 5.

Aiming Adjustment Tests

1. A minimum aiming adjustment of ± 4 deg must be provided

in both the vertical and horizontal planes.

2. The mechanism, including the aiming adjustment, must be so designed as to prevent the unit from receding into the lamp body or housing when an inward pressure of 50 lb is exerted on the outer surface of the lens.

3. Headlamps with independent vertical and horizontal aiming adjusting screws.

(a) The headlamp unit mounting must be provided with independent vertical and horizontal aiming adjustments. The adjustment screws must be so positioned that neither the vertical nor horizontal aim will deviate more than 4.00 in. from the horizontal or vertical planes respectively, at a distance of 25 ft, through an angle of plus to minus 4 deg.

(b) The self-locking devices used to hold aiming screws in position must continue to operate satisfactorily up to 10 adjustments on each screw, over a length of screw thread of $\pm 1/8$ in.

NOTE: 3 (a) and 3 (b) not applicable to lamps with ball and socket or equivalent adjusting means.

Gasket Requirements—Gaskets used to seal between movable parts must be so designed or attached that they will not hinder or interfere with the ease of reassembly in service when replacing a burned out unit.

Retaining Ring Requirements

1. Positive means must be provided for holding the sealed beam unit to the mounting ring. The fastening means shall be deemed adequate if it will withstand and hold the sealed beam unit securely in