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SAE J268 MAY82

**Rear View
Mirrors-Motorcycles**

SAE Recommended Practice
Revised May 1982

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Ø REAR VIEW MIRRORS - MOTORCYCLES

1. PURPOSE AND SCOPE: This recommended practice specifies requirements for rear view mirror systems to provide the operator with a clear view to the rear.
2. APPLICATION: This recommended practice applies to all classes of motorcycles as defined in SAE J213 intended for use on public roads.
 - 2.1 Operator Dimensions: Motorcycles intended for adult operators shall satisfy the requirement of this recommended practice for an operator having the dimensions of a 50th percentile USA human male (SAE J833). Motorcycles intended specifically for other than adult operators shall satisfy the requirements of this recommended practice for the 50th percentile of the intended operator population.
3. REQUIREMENTS:
 - 3.1 Mounting:
 - 3.1.1 Each mirror shall have its entire reflective surface located between planes passing through the eyepoint of an operator in the designed seating position, 45 deg above and below and 60 deg left and right of the forward line of sight (SAE J985).
 - 3.1.2 The mounting shall provide for mirror adjustment to comply with paragraph 3.2.1.
 - 3.2 Field of View:
 - 3.2.1 The mirror system shall provide an operator in the designed seating position an indirect rearward view of a level road surface extending to the horizon, beginning at a point not greater than 30 m (98 ft) from the rearmost part of the vehicle. The mirror system shall also provide a field of view extending from the vehicle centerline 3.7 m (12 ft) both left and right at a distance 10 m (33 ft) behind the rearmost portion of the vehicle.

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3.2.2 Each mirror shall provide an image that is upright with left and right sides reversed.

3.3 Mirror Construction:

3.3.1 Reflective Surface Shape: Each mirror shall have a reflective surface either flat or convex in shape. Convex reflective surfaces shall have a radius of curvature not less than 51.0 cm (20.1 in).

3.3.2 Reflective Surface Size: Flat reflective surfaces shall have a minimum reflective area of 81.0 cm² (12.6 in²). Convex reflective surfaces shall have a minimum reflective area of 64.5 cm² (10.0 in²).

3.3.3 Reflectance: The mirror reflectance shall be at least 50% when tested in accordance with SAE J964.

4. REFERENCES:

4.1 SAE J213 - Definitions - Motorcycles.

4.2 SAE J833 - USA Male and Female Physical Dimensions for Construction and Industrial Equipment Decision.

4.3 SAE J964 - Test Procedure for Determining Reflectivity of Rear View Mirrors.

4.4 SAE J985 - Vision Factors Considerations in Rear View Mirror Design.

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