

	SURFACE VEHICLE RECOMMENDED PRACTICE		J600 FEB2011
		Issued	1952-12
		Stabilized	2011-02
		Superseding J600 AUG2009	
Headlamp Aim Test Machines			

RATIONALE

The technical report covers technology, products, or processes which are mature and not likely to change in the foreseeable future.

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FOREWORD

Relationship of SAE Standard to ISO Standard—Not applicable.

1. SCOPE

This SAE Recommended Practice provides laboratory test procedures for testing headlamp aim test machines to verify their ability to aim or to inspect the aim of headlamps, fog lamps, and auxiliary high beam lamps. This specification does not apply to aiming devices of the kind covered by SAE J602. This specification does not apply to motorcycle headlamps.

2. REFERENCES

2.1 Applicable Publications

The following publications form a part of this specification to the extent specified herein. Unless otherwise specified, 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 J387	Terminology—Motor Vehicle Lighting
SAE J575	Test Methods and Equipment for Lighting Devices and Components for Use on Vehicles Less than 2032 mm in Overall Width
SAE J581	Auxiliary High Beam Lamps
SAE J583	Front Fog Lamp
SAE J599	Lighting Inspection Code
SAE J602	Headlamp Aiming Device for Mechanically Aimable Headlamp Units
SAE J1383	Performance Requirements for Replaceable Bulb Motor Vehicle Headlamps
SAE J2595	Performance Requirements for Sealed Beam Motor Vehicle Headlamps

2.2 Related Publications

The following publications are provided for information purposes and are not a required part of this document.

2.2.1 Federal Publications

Available from the Superintendent of Documents, U.S. Printing Office, 732 North Capitol Street, NW, Washington, DC 20401, Tel: 202-512-1800, <http://www.gpoaccess.gov/cfr/retrieve.html>.

49CFR571.108 (FMVSS 108) Lamps, Reflective Devices, and Associated Equipment

3. DEFINITIONS

3.1 Headlamp Aim Test Machine

A headlamp aim test machine is an optical or photoelectric device used to aim or check the aim of forward lighting devices. The headlamp aim test machine shall permit an operator to aim a forward lighting device without the use of specialized aim equipment such as a mechanical aimer or aim screen.

A headlamp aim test machine will aim a headlamp in which the original lamp aim system is no longer functional, such as chipped aiming pads or VHAD systems out of calibration.

The preferred aim method is the design method. Headlamps with VHAD aim should be aimed using the VHAD system.

3.2 Headlamp Optical Axis

The line formed by the intersection of a horizontal and a vertical plane through the light source parallel to the longitudinal axis of the vehicle. If the optical axis of the headlamp is not at the geometric center of the lens, then the location will be indicated by the manufacturer on the headlamp.

3.3 Replaceable Bulb Headlamp (RBHL)

Replaceable bulb headlamp means a headlamp comprising a lens and reflector assembly and one or two replaceable headlamp light sources.