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SEALED BEAM HEADLAMP ASSEMBLY—SAE J580 AUG79

SAE Standard

Report of the Lighting Committee, approved March 1960, last revised November 1978, editorial change August 1979.

ϕ **1. Scope**—This standard applies to the design of sealed beam headlamp assemblies including the functional parts, except the sealed beam units which are covered in SAE J571d (June, 1976), J579c (December, 1974), and J1132 (January, 1976).

2. Definitions

2.1 Sealed Beam Headlamp Assembly—A major lighting assembly which includes one or more sealed beam units used to provide general illumination ahead of the vehicle.

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

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

2.4 Aiming Screws—Horizontal and vertical adjusting screws with self-locking features used to aim and retain the headlamp unit in the proper position.

ϕ **3. Reference Standards**—The following sections from SAE J575g (September, 1977) are a part of this standard:

3.1 Section 2—Samples for Test

3.2 Section 3—Laboratory Facilities

3.3 Section 4.1—Vibration Test

3.4 Section 4.4—Corrosion Test

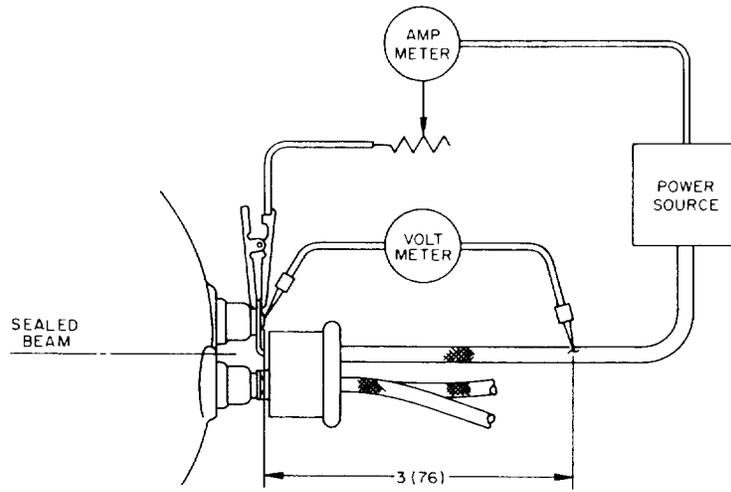
ϕ **4. Dimensional Specifications**—The mounting ring and retaining ring shall comply with SAE J571d (June, 1976), Figs. 2, 5, and 8, SAE J1132 (January, 1976) Fig. 2.

5. General Requirements

ϕ **5.1 Headlamps** shall be designed so that they may be inspected and aimed by mechanical aimers as specified in SAE J602c (December, 1974) without the removal of any ornamental trim rings or other parts.

5.2 When in use, a headlamp shall not have any styling ornament or other feature, such as a glass cover or grille, in front of the lens.

ϕ **6. Design Requirements and Tests**—Unless otherwise specified, the following are laboratory tests in which the sealed beam headlamp assembly shall be mounted in design position with the sealed beam unit set at nominal aim (0,0).



NOTE DIMENSIONS ARE IN (mm)

FIG. 1-CONNECTOR TEST

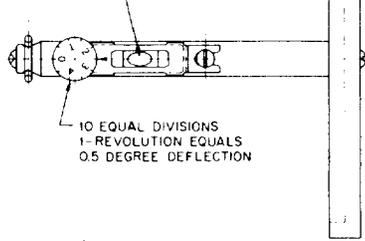
UNIT	A DIM	B DIM
SAE 5.75	5.690 (144.53)	5.300 (134.62)
SAE 7.00	7.020 (178.31)	6.640 (168.66)

DIMENSIONS ARE IN (mm)

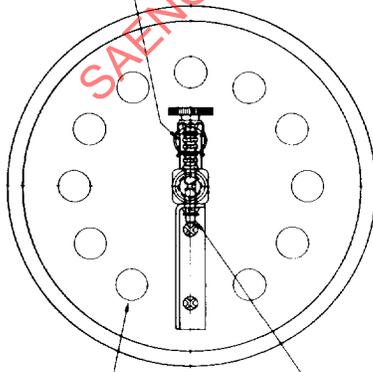
MACHINE MATERIALS:

- DISC, ARM AND BRACE-ALUMINUM- SAE-AA-6061-T6 OR EQUIV
- COIL SPRING AND LEVEL CLIP- SPRING STEEL
- SAE 1050-CADMIUM PLATE
- WEIGHT AND EYE BOLT ASSEMBLY- STEEL-CADMIUM PLATE
- SCREWS-ALUMINUM-MACHINE THREADS
- MACHINED DIM ± 0.005
- SAE 5.75 AND SAE 7.00- HEADLAMP TEST FIXTURE

- (1) 0.20 BUBBLE MOVEMENT MUST INDICATE 0.25 DEGREE SENSITIVITY OR BETTER
- (2) MUST BE ACCURATE TO WITHIN ± 0.05 DEGREE THROUGH A RANGE OF ± 4 DEGREES

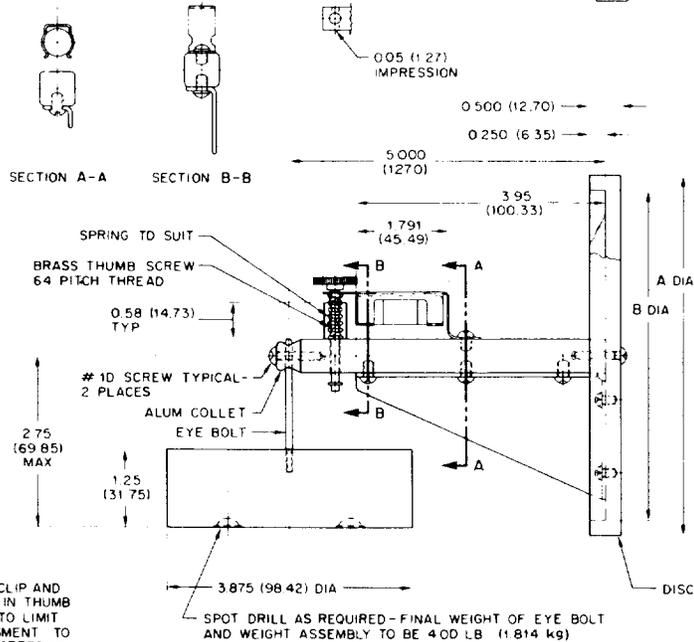


ALUMINUM SLEEVE TO LIMIT THUMB SCREW ADJUSTMENT TO 4 DEGREES DOWN



LIGHTENING HOLES AS REQUIRED
FINAL WEIGHT OF DISC & LEVEL ASSY TO BE: 5.75 UNIT- 0.690 LB (0.313 kg)
7.00 UNIT- 1.124 LB (0.510 kg)

SPRING CLIP AND GROOVE IN THUMB SCREW TO LIMIT ADJUSTMENT TO TO 4 DEGREES UP



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DIMENSIONS ARE IN (mm)

FIG. 2-DEFLECTOMETER

