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NHTSA-98-3397-20

ORIGINAL

93-11-N01-015

U.S. Department of Transportation
National Highway Traffic Safety Administration

Memorandum

Subject: ACTION: Transmittal to the Part 564, Replaceable Light Source Information Docket, Docket No. 93-l 1, Appendix A; Information on Modifications to Replaceable Light Source Type HB4; Submitted by OSRAM SYLVANIAINC.

Date: OCT 24 1996

From: Stephen R. Kratzke, Acting Director, Office of Crash Avoidance Standards

Reply to Attn of: Hardie X66987

To: Docket Section

THRU: John Womack
Acting Chief Counsel

8 pages

The enclosed Attachment is forwarded for placement in the Part 564, Replaceable Light Source Information Docket, Docket 93- 11. The Attachment is a letter and drawings submitted by OSRAM SYLVANIA INC., that describe modifications to Docket No. 93-l 1-N01 entry numbers -007; Figure 19; Specifications for the Type HB3 Standardized Replaceable Light Source and entry number -008; Figure 20; Specifications for the Type HB4 Standardized Replaceable Light Source.

The purpose of this memorandum is to place in the Docket No. 93-l 1 file information submitted by OSRAM delineating modifications to the specifications for the Type HB4 light source. The OSRAM submittal contained the following modifications to the Type HB4 specifications:

1. Add a new note (#1 1) to Figure 20 (CONT.) that pertains to "Plane A" on Figure 20-2.

2. Changes the EH dimensions of Figure 20-3 from 0.748 inches/19.00 millimeters to 0.787 inches/20.00 millimeters. (Note that the end point dimension EH has been moved to a new position on the lamp base.)

3. Change the ES dimensions of Figure 20-3 from 0.039 MIN inches/l .OO MIN millimeters to 0.039 MAX inches/l .OO MAX millimeters.

OSRAM has submitted the enclosed Attachment in accordance with the requirements of Part 564 and attested that use of the light source as modified in the Attachment will not create a non-compliance with any requirement of Federal motor vehicle safety standard No. 108 (49 CFR 57 1.108) when used to replace an unmodified light source in a headlamp certified by its manufacturer as conforming to all applicable Federal motor vehicle safety standards.

Get it together!
SAFETY BELTS SAVE LIVES

This cover memorandum along with the attached OSRAM letter and modified HB4 drawings should be retained together and placed in Docket No. 93-l 1 -N01 as entry number 93-l 1 -NO 1-015. Unless stated on the submission as options the modifications requested in this submission are mandatory for compliance purposes.

Should you have any questions, please contact Richard Van Iderstine or Kenneth 0. Hardie of my staff. They may respectively be reached by telephone on x65280 or x66987.

Attachment (w/ 10 copies)

cc:
Associate Administrator for Plans and Policy
Associate Administrator for Research and Development
Associate Administrator for Safety Assurance

ATTACHMENT

DONELAN, CLEARY, WOOD & MASER, P.C.

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September **17, 1996**

Associate Administrator for Rulemaking
National Highway Traffic Safety Administration
400 Seventh Street, S.W.
Washington, D.C. 20590

Attention: Replaceable Light Source Information Docket **93-** 11

Dear Sir:

Pursuant to 49 C.F.R. Part 564, OSRAM SYLVANIA INC. hereby resubmits an original and 10 copies of drawings and other Appendix A information for its Type 9005 and 9006 Replaceable Light Sources for filing in Replaceable Light Source Information Docket No. 93-l 1. This submission is intended to supersede a prior submission dated August **12, 1996** that **currently** is pending before NHTSA. The August 12, 1996 submission contains several inaccuracies that have been corrected in this submission. This submission reflects modifications to information previously filed in this docket.

Identification of the Modifications
49 ***C.F.R. $5645(d)(I)***

These replaceable light sources are right angle base lamps, HB3 (9005) and HB4 **(9006),** shown in the attached sets of drawings labeled **Spec.** No. **C6C1700-0002** E and **Spec.** No. **C6C1800-0002** G, respectively. The modifications are listed in the following tables:

HB3
Osram Sylvania **Spec #C6C1700-0002E -** Sheet 5 reflects the following modifications to NHTSA Figure 19-3 in Docket 93-l 1:

Dimension	Current NHTSA Dimension		Modified Dimension	
	Inch	Mil	Inch	Mil
KS	**.039** MIN	1 **.00** MIN	0.039 MAX	**1.00 MAX**
KH*	**.748**	19.00	**.787**	20.00

* Please note that the end point of dimension **KH has been moved to a new position on the lamp** base.

Osram Sylvania **Spec.** # **C6C1700-0002E -** Sheet 2 also adds a new note **(#1** 1) that pertains to "Plane A" on Sheet 4.

HB4
Osram Sylvania **Spec #C6C1800-0002G -** Sheet 5 reflects the following modifications to NHTSA Figure 20-3 in Docket 93-l 1:

Dimension	Current NHTSA Dimension		Modified Dimension	
	Inch	Mil	Inch	Mil
ES	.039 MIN	1.00 MIN	0.039 MAX	1.00 MAX
EH*	.748	19.00	.787	20.00

*** Please note that the end point of dimension EH has been moved to a new position on the lamp** base.

Osram Sylvania **Spec. # C6C1800-0002G -** Sheet 2 also adds a new note **(#1** 1) that pertains to "Plane A" on Sheet 4.

Reason for Modifications
49 ***C.F.R. § 5645(d)(2)***

The reason OSRAM requests these modifications is because of a secondary process that it now uses to manufacture both lamps. A new assembly line has been added that uses an inserted lug as opposed to an insert molded lug. The requested changes relate to the different molding processes. In order for OSRAM to use one **specification** drawing to accurately represent bulbs from both processes, the EH and **KH** dimensions are modified to read "MIN" and the KS and ES dimensions are shown at their maximum values instead of the minimum.

The reason for adding note **#1** 1 on Page 2 of both sets of specifications is to allow the use of different configurations of mounting pads (bosses) which will still accurately define a plane. The drawing only shows one option. However, Plane A is defined by using three points and many configurations are possible. For other configurations (which may be easier and less costly to mold) to be compliant, OSRAM modifies the drawings to allow for alternative mounting pad schemes. Plane A remains in the same location regardless of the geometry used to define it.

Statement of Post-Modification Safety Compliance and Interchangeability
49 C.F.R. § 564.5(d)(3) and (4)

The proposed modifications will not create a non-compliance with any requirement of Motor Vehicle Safety Standard No. 108 (49 C.F.R. **§** 571.108) when used to replace an unmodified light source in a headlamp certified by its manufacturer as conforming to all applicable Federal motor vehicle safety standards. The modifications do not affect the operating characteristics or interchangeability of the lamps. Rather, they merely redefine the way the base is dimensioned and the method of defining Plane A, which remains in the same location. The fit of the lamps in the sockets is not affected nor are the operating characteristics.

Please direct any questions to the undersigned, or to Clarice Clark, Project Engineer, OSRAM SYLVANIA, 275 W. Main Street, Hillsboro, N.H. 03244, (603) 464-5533.

Sincerely,

James R. Hobson
Jeffrey 0. Moreno

Counsel for OSRAM SYLVANIA INC.

Enclosures
7600-040

SUBJECT: SPECIFICATIONS FOR THE TYPE HB4 STANDARDIZED REPLACE LIGHT SOURCE

DIMENSION	INCHES	MILLIMETERS
AA	0.591 max/0.217 min	15.00 max/5.50 min
AB	0.236	6.00
AC	45°	45°
AD	0.079	2.00
AE	1.09	27.8
AF	0.165	4.20
AG	0.346	8.80
AH	0.433	~11.00
Al	0.055	1.40
AJ	0.217 ± 0.006	5.50 ± 0.15
AK	0.06	1.5
AL	0.780 diameter	19.81 diameter
AM	2.165	55.00
AN	0.093	2.36
AO	0.157	4.00
AP	45° chamfer	45° chamfer
AQ	0.039	1.00
AR	0.766 +0.004 -0.000 diameter	19.46 +0.10 -0.00 diameter
AS	0.866 ± 0.002 diameter	22.00 ± 0.05 diameter
AT	0.079	2.00
AU	0.138	3.5
AV	0.209 min	5.30 min
AW	0.378	9.60

1. Dimensions shown are maximum - may be smaller.
2. Bulbs must be equipped with a seal. The bulb-seal assembly must withstand a minimum of 69 kPA (10 psig) when the assembly is inserted into a cylindrical aperture of 22.22 ± 0.10 mm (0.875 ± 0.004 in).
3. See Fig. 20-5.
4. Diameters must be concentric within 0.20 mm (0.008 in).
5. Glass bulb periphery must be optically distortion free axially within the included angles about Point B.
6. Key and keyway are optional construction. Keyway required for aftermarket only.
7. Measured at terminal base. Terminals must be perpendicular to base and parallel within ± 1.5°.
8. Diameters must be concentric within 0.20 mm (0.008 in).
9. Absolute dimension. No tolerance.
10. Glass capsule and supports shall not exceed this envelope.
11. The reference plane is determined by three (3) supporting bosses of optional schemes or by a continuous surface.

TOLERANCES UNLESS OTHERWISE SPECIFIED	
INCHES	MILLIMETERS
2 Place Decimals ± 0.02	1 Place Decimals ± 0.5
3 Place Decimals ± 0.010	2 Place Decimals ± 0.30
Angular ± 1 °	Angular ± 1 °

ECO 18303 Engineering Sizing

OSRAM SYLVANIA

Automotive & Miniature Lighting
Hillsboro, NH, 03244
Specifications Department

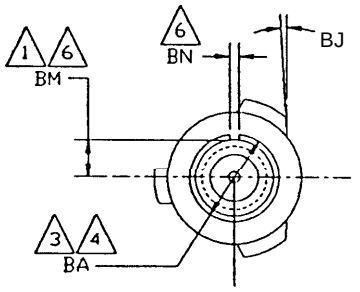
FIGURE 20-2

Spec No. C6C1800-0002 G
Date: 9/10/96
Supersedes: 7/24/96
Sheet 4 of 9 sheets

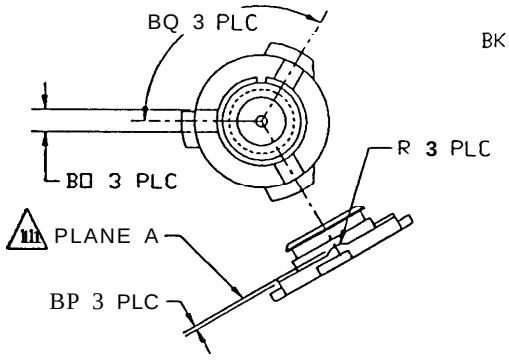
SUBJECT: **SPECIFICATIONS FOR THE TYPE HB4 STANDARDIZED REPLACE LIGHT SOURCE**

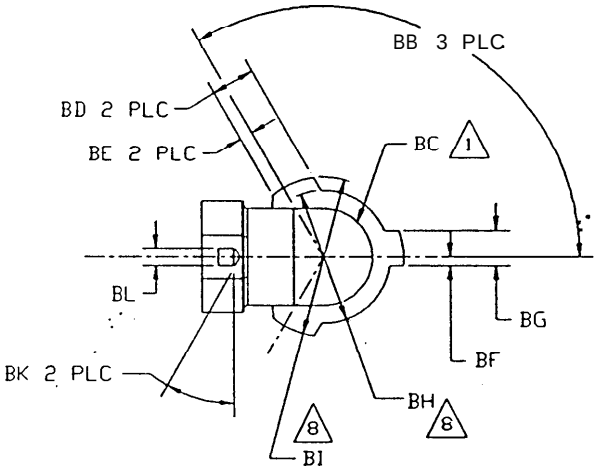
SPECIFICATIONS FOR THE 9006 REPLACEABLE BULB

VIEW Y: FROM BULB END



OPTIONAL CONSTRUCTION
(VIEW Y: FROM BULB END)





VIEW Z: FROM CONNECTOR END

DIMENSION	INCHES	MILLIMETERS
BA	0.866 ± 0.002 diameter	22.00 ± 0.05 diameter
BB	120° ± 30 min	120° ± 30 min
BC	0.866 diameter	22.00 diameter
BD	0.394	10.00
BE	0.118	3.00
BF	0.079	2.00
BG	0.315	8.00
BH	1.181 diameter	30.00 diameter
BI	1.417 diameter	36.00 diameter
BJ	3”	3”
BK	30”	30”
BL	0.157	4.00
BM	0.39	9.9
BN	0.079 ± 0.004	2.00 ± 0.10
BO	0.20	5.0
BP	0.030	0.75
BQ	120” typ	120 ° typ

ECO 18303 Engineering Updating

OSRAM SYLVANIA

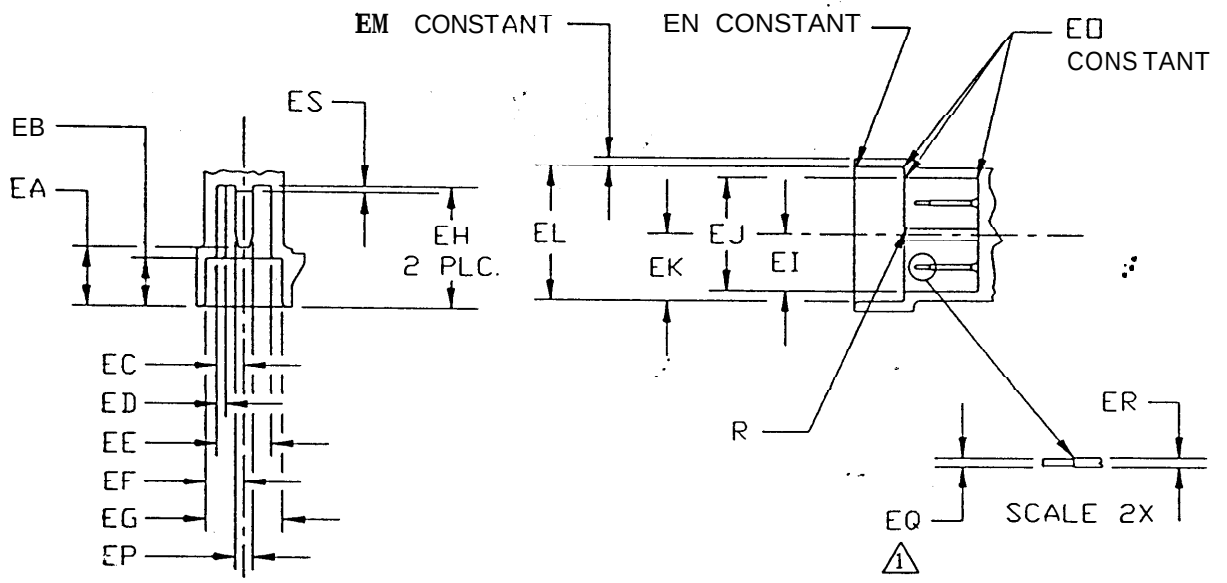
Automotive & Miniature Lighting
Hillsboro, NH, 03244
Specifications Department

FIGURE 20-3

Spec No. C6C1800-0002 G
Date: 9/10/96
Supersedes: 7/24/96
Sheet 5 of 9 sheets

SUBJECT: SPECIFICATIONS FOR THE TYPE HB4 STANDARDIZED REPLACE LIGHT SOURCE

SPECIFIC-ATKINS FOR THE 9006 REPLACEABLE BULB



SECTION: S – S (FROM FIG. 2)

SECTION: R – R (FROM FIG. 2)

DIMENSION	INCHES	MILLIMETERS
E A	0.384	9.75
EB	0.315	8.00
EC	0.171	4.35
ED	0.079	2.00
EE	0.343	8.70
EF	0.242 ± 0.006	6.15 ± 0.15
EG	0.484	12.30
EH	0.787	20.00
El	0.368 ± 0.006	9.35 ± 0.15
EJ	0.736	18.70
EK	0.439 ± 0.006	11.15 ± 0.15
EL	0.878	22.30
EM	0.059	1.50
EN	0.03 R	0.8 R
EO	0.016 R	0.40 R
EP	0.110 ± 0.004	2.8 ± 0.10
EQ	0.024	0.60
ER	0.033 ± 0.001	0.83 ± 0.03
ES	0.039 max	1.00 max

ECO 18303 Engineering Standardizing