

[INCH-POUND]
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June 28, 1996
SUPERSEDING
A-A-52463A
December 15, 1995

COMMERCIAL ITEM DESCRIPTION

LAMP BULBS, INCANDESCENT, MINIATURE, SINGLE AND DOUBLE CONTACT, BAYONET CANDELABRA BASE

The General Services Administration has authorized the use of this commercial item description (CID) for all federal agencies.

1. **SCOPE.** This CID covers requirements for four types of miniature incandescent lamps used in military ground vehicles.

2. **CLASSIFICATION.** Miniature lamp bulbs shall be of the following types (see 7.3):

- Type I - Instrument light.
- Type II - Auto light.
- Type III - Stop, tail light.
- Type IV - Reading light.

3. SALIENT CHARACTERISTICS

3.1 Materials. Materials shall be corrosion resistant or suitably treated to resist corrosion caused by fuel, salt spray, or atmospheric conditions as may be encountered in storage or normal service. The use of recovered material made in compliance with regulatory requirements is acceptable providing that all requirements of this CID are met (see 4.1).

3.1.1 Dissimilar metals. Dissimilar metals shall not be used in extremely close contact or having direct contact with each other unless protected against galvanic corrosion.

3.2 Design and construction. The lamps shall be designed as illustrated in figures 1 through 4. Unless otherwise specified herein, the lamp base shall be constructed in accordance with current ANSI C81.61.

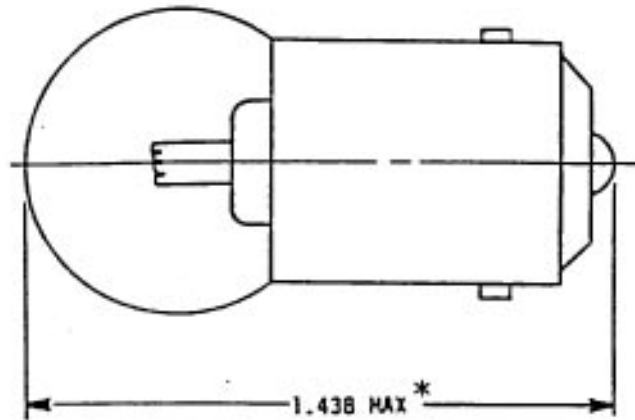
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ASMC N/A

FSC 6240

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

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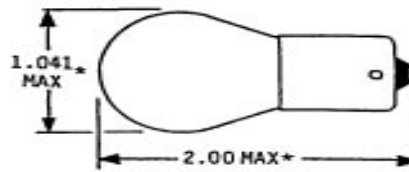
* see note 5.

Type I PIN Number	Candle Power	Design		Filament Constr.	Average life (hours)	Former MS Part Numbers
		Volts	Amps			
AA52463-A01	$3 \pm 20\%$	7.00	$0.63 \pm 20\%$	C-2R	1000	MS15570-63
AA52463-A02	$3 \pm 8\%$ (2)	7.00	$0.60 \pm 5\%$	C-2R	1000	MS15570-63R
AA52463-A03	$6 \pm 20\%$	6.50	$1.02 \pm 20\%$	C-2R	500	MS15570-81
AA52463-A04	$4 \pm 15\%$	13.50	$0.59 \pm 8\%$	C-2R (3)	2000	MS15570-67
AA52463-A05	$6 \pm 15\%$	13.00	$0.58 \pm 8\%$	C-2R	750	MS15570-89
AA52463-A06	$6 \pm 20\%$	28.00	$0.30 \pm 10\%$	C-2F	500	MS15570-303
AA52463-A07	$6 \pm 20\%$ (2)	28.00	$0.30 \pm 10\%$	C-2F	500	MS15570-303R
AA52463-A08	$3 \pm 20\%$	28.00	$0.23 \pm 10\%$	2C-2F	1000	MS15570-1251
AA52463-A09	$6 \pm 20\%$	28.00	$0.37 \pm 10\%$	2C-2F	1000	MS15570-623

- NOTES: 1. Bulbs for PIN numbers AA52463-A02 and AA52463-A07 are to be red.
 2. "Candle power" applies to the lamp before red coating is applied.
 3. Light center length is 0.81 inches.
 4. Dimensions are in inches (see 3.2) and are shown for engineering reference purposes only. Do not scale.
 5. International interest: QSTAG 122, NATO STANAG 4008.

FIGURE 1. BA15s Candelabra single-contact bayonet base, G6 bulb (type I).

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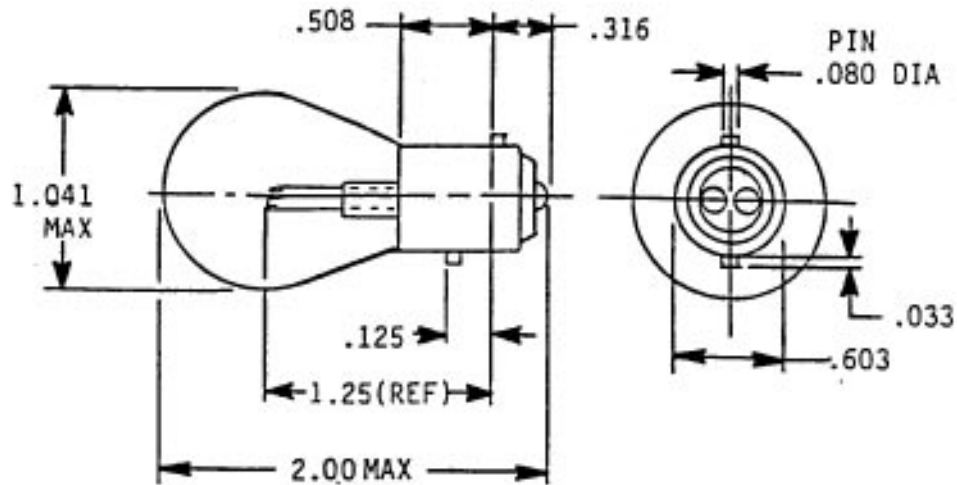
* see note 5.

Type II PIN Number	Candle Power	Design		Filament Construction		Average life (hours)	Former MS Part Numbers
		Volts	Amps		(optional)		
AA52463-B01	21 ± 7%	6.40	2.63 ± 4%	C-6		200	MS35478-1129
AA52463-B02	15 ± 9%	6.75	1.91 ± 5%	C-2R	C-6	300	MS35478-87
AA52463-B03	15 ± 9%	12.80	1.04 ± 5%	C-2R	C-6	500	MS35478-93
AA52463-B04	21 ± 10%	12.80	1.44 ± 6%	C-6		500	MS35478-1141
AA52463-B05	15 ± 15%	28.00	0.51 ± 8%	C-2V		300	MS35478-305
AA52463-B06	21 ± 15%	28.00	0.67 ± 8%	C-2V		300	MS35478-307
AA52463-B07	21 ± 15% (3)	28.00	0.67 ± 8%	C-2V		300	MS35478-307SB
AA52463-B08	21 ± 15% (3)	28.00	0.67 ± 8%	C-2V		300	MS35478-307R
AA52463-B09	32 ± 10%	28.00	0.90 ± 8%	C-2V		300	MS35478-315
AA52463-B10	32 ± 15%	28.00	1.02 ± 8%	2C-2R	2C-6	500	MS35478-1683
AA52463-B11	15 ± 10%	28.00	0.61 ± 8%	2C-2R	2C-2V	1000	MS35478-1691
AA52463-B12	32 ± 10%	6.00	4.10 ± 8%	C-6		300	MS35478-1680
AA52463-B13	32 ± 10%	12.80	1.80 ± 5%	C-6		200	MS35478-1073
AA52463-B14	21 ± 15%	28.00	0.80 ± 8%	C-2V		1000	MS35478-1665IF
AA52463-B15	18 ± 25%	28.00	.643 ± 10%	CC-8		2000	MS35478-2232
AA52463-B16	21 ± 25%	28.00	.766 ± 10%	CC-8		2000	MS35478-2233
AA52463-B17	32	4	0.75	C-6		50	MS35478-BFT
AA52463-B18	21 approx.	6.4	2.69	C-2V		200	MS35478-1605

- NOTES: 1. Bulb for PIN AA52463-B07 has a reflectorized coating which covers the top of the bulb to the filament center (see 3.3).
2. Bulb for PIN AA52463-B08 is red.
3. "Candle power" applies to the lamp before red or reflective coating is applied.
4. Dimensions are in inches (see 3.2) and are shown for engineering reference purposes only. Do not scale.
5. International interest: QSTAG 122, NATO STANAG 4008.

FIGURE 2. BA15s Candelabra single-contact, bayonet base, S8 bulb (type II).

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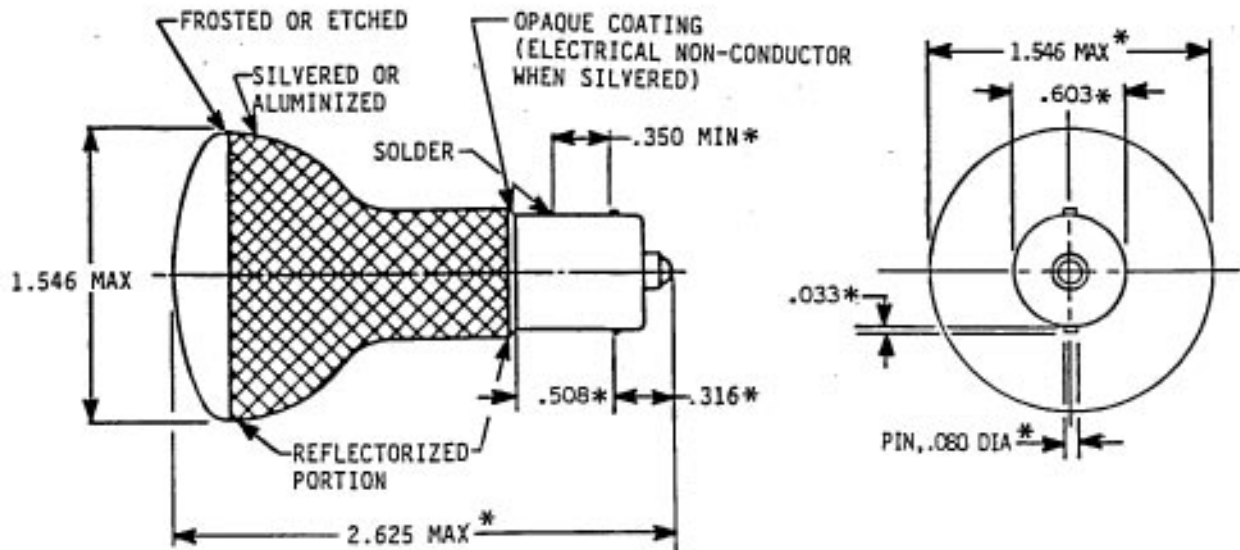
Type III PIN Number	Trade No.	Candle Power		Design			Filament Constr	Avrage Life (hours)	Former MS Part Number
				Volts	Amps				
		Maj Fil.	Min Fil.		Maj Fil	Min Fil			
AA52463-C01	1154	21 ± 8%	3 ± 12%	6.4/7.0	2.69 ± 5%	.75 ± 8%	2C-6	200/2000	MS35481-1
AA52463-C02	1016	21 (2)	6 (2)	12.8/14.0	1.26 (2)	.57 (2)	2C-6	200/1000	MS35481-2

NOTES: 1. Dimensions are in inches (see 3.2) and are shown for engineering reference purposes only. Do not scale.

2. "Candle power" and "ampere" ratings are in accordance with manufacturer's information.

FIGURE 3. BAY15d Double-contact, bayonet base, S8 bulb (type III).

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* see note 3.

Type IV PIN Number	Trade Number	Watts	Design		Filament Construction	Average life (hours)	Former MS Part Numbers
			Volts	Amps			
AA52463-D01	1383	20	13	1.54	C-8	300	MS35480-1
AA52463-D02	1385	20	28	0.714	CC-8	300	MS35480-2
AA52463-D03	1384	20	6	3.33	C-8	300	MS35480-3

- NOTES: 1. Frosted area shall be acid etched or applied by sand blasting exterior surface (see 3.3.1 for reflectorized area).
2. Dimensions are in inches (see 3.2) and are shown for engineering reference purposes only. Do not scale.
3. International interest: QSTAG 122, NATO STANAG 4008.

FIGURE 4. BA15s Candelabra single-contact, bayonet base, R12 bulb (type IV).

3.3 Coating. The bulbs shall be clear unless otherwise indicated as being red color coated, reflectorized coated, or reflectorized coated-frosted (see figures). Coatings shall firmly adhere and be uniform without discoloring, cracking, fading or peeling.

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3.3.1 Reflectorized coating. The reflectorized coating shall cover the area of the bulb indicated in the applicable figures. The reflectorized coating shall be sensitized to receive a 0.005 inch coating of pure silver followed by a protective copper deposit, and then overlapping aluminum. As an optional procedure, the reflectorized coating may be aluminized by vacuum deposition.

3.4 Environment. Lamps shall show no sign of deterioration when exposed to vibration, shock, temperature, or humidity while in use in vehicles.

3.5 Rated average laboratory life. The rated average laboratory life of the lamps shall be as specified in figures 1 through 4. Where average life is specified, lamps shall give average life to burn-out of not less than what is specified.

3.6 Identification and marking. Identification and marking shall be permanent and legible and shall include, as a minimum, the lamp industry trade number which correlates with the part number.

4. REGULATORY REQUIREMENTS

4.1 Recovered material. The offeror/contractor is encouraged to use recovered materials to the maximum extent practicable, in accordance with paragraph 23.403 of the Federal Acquisition Regulation (FAR).

5. QUALITY ASSURANCE PROVISIONS

5.1 Responsibility for inspection. The contractor is responsible for the performance of all inspections (examinations and tests).

5.2 Contractor certification. The contractor shall certify and maintain substantiating evidence that the product offered meets the salient characteristics of this CID and that the product conforms to the producer's own drawings, specifications, workmanship standards, and quality assurance practices. Items with known defects shall not be submitted for Government acceptance. The Government reserves the right to require proof of such conformance prior to the first delivery and thereafter as may be otherwise provided for under the provisions of the contract.

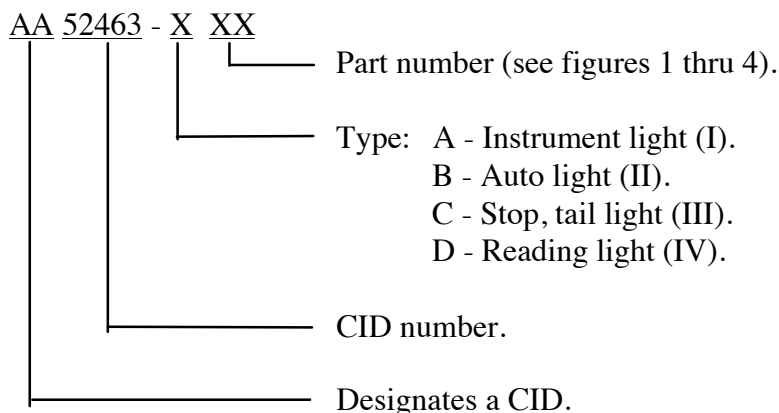
6. PACKAGING. Preservation, packing, and marking shall be as specified in the contract or order (see 7.3).

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7. NOTES.

(This section contains information of a general or explanatory nature that may be helpful, but is not mandatory.)

7.1 Part or identification number (PIN). The PINs to be used for lamps acquired to this CID are created as follows:



7.2 Addresses for obtaining copies of referenced documents.

7.2.1 Government publications. The Code of Federal Regulations (CFR) may be obtained from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

7.2.2 Non-Government publications. Copies of industry specification ANSI C81.61 "Electrical Lamp Bases" are available from the American National Standards Institute (ANSI), 1430 Broadway, New York, NY 10018.

7.3 Ordering data. Acquisition documents must specify the following:

- a. Title, number, and date of this CID.
- b. Issue of the DoDISS to be cited in the solicitation, and if required, the specified issue of individual documents referenced.
- c. Type, PIN, and quantity of lamps required.
- d. Selection of applicable level and packaging requirements.

7.4 Cross-reference data. Lamps conforming to this CID are interchangeable/substitutable with lamps conforming to A-A-52463, MS15570F, MS35478K, MS35480, and MS35481.

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7.5 Configuration. The configuration of the bulb is designated by the use of a letter (shape) and a number (size) which expresses the approximate diameter in eighths of an inch.

7.6 International interest. Certain provisions of this CID (figures 1, 2, and 4) are the subject of the international standardization agreements (see figures for document reference). When amendment, revision, or cancellation of this CID is proposed that will modify the international agreement concerned, the preparing activity will take appropriate action through international standardization channels, including departmental standardization offices to change the agreement or make other appropriate accommodations. International interest is noted by use of an asterisk (*).

MILITARY INTERESTS:

Custodians:

Army - AT
Navy - SH
Air Force - 99

Review Activities:

Army - AV, ER, MI
Navy - AS, YD1
Air Force - 82
DLA - GS

CIVIL AGENCY COORDINATING ACTIVITY:

GSA - FSS

Preparing Activity:

Army - AT

(Project 6240-1441)