

LAMP BULBS AND SEALED UNITS—SAE J573

SAE Standard

Report of Lighting Division approved March 1918 and last revised by Lighting Committee March 1961.

TABLE 1—MOTOR-VEHICLE ELECTRIC LAMP BULBS^a (FOR NEW DESIGNS OR ORIGINAL EQUIPMENT)

Type of Service ^b	Trade No.	Design		Rated Average Lab Life at Design Volts, hr	Design Amps at Design Volts	Filament				Bulb			Base			
		cp	volts			Type	Center Length, in. (LCL)	Focal Center Length Tolerance ±	Axial Alignment Tolerance ±	Type	Max Dia, in.	Max Overall Length, in.	Type	Design	Contacts	Plane of Pins or Major Locking Eyelet with Respect to Filament, deg
6-Volt Circuits																
1, 2	51	1	7.5	1000	0.22	C-2R	1/2	3/32	3/32	G-3-1/2	0.463	15/16	A-1	Miniature Bayonet	SC	—
1	55	2	7.0	500	0.41	C-2R	9/16	3/32	3/32	G-4-1/2	0.588	1-1/16	A-1	Miniature Bayonet	SC	—
L, M, P, T	63	3	7.0	1000	0.63	C-2R	3/4	3/32	3/32	G-6	0.744	1-7/16	B-1	Candelabra Bayonet	SC	—
3	81 ^d	6	6.5	500	1.02	C-2R	3/4	3/32	3/32	G-6	0.744	1-7/16	B-1	Candelabra Bayonet	SC	—
3	209	15	6.5	100	1.78	C-6	1-1/16	1/16	1/16	B-6	0.775	1-3/4	B-1	Candelabra Bayonet	SC	90
3	210	15	6.5	100	1.78	C-6	1-1/16	1/16	1/16	B-6	0.775	1-3/4	B-2	Candelabra Bayonet	DC	90
3, D, S	1129	21	6.4	200	2.63	C-6	1-1/4	0.04	0.04	S-8	1.041	2	B-1	Candelabra Bayonet	SC	90
B	1133	32	6.2	200	3.91	C-2R	1-1/4	0.04	0.04	RP-11	1.420	2-1/4	B-1	Candelabra Bayonet	SC	90
D, L, S, T, P	1154	21	6.4	200	2.63	C-6	1-1/4	0.04	0.04	S-8	1.041	2	C-2	Candelabra Bayonet Indexing	DC	90
		3	7.0	1000	0.75	C-6	— ^e	— ^e	— ^e	—	—	—	—	—	—	—
12-Volt Circuits																
1, 2	57	2	14.0	500	0.24	C-2V	9/16	3/32	3/32	G-4-1/2	0.588	1-1/16	A-1	Miniature Bayonet	SC	—
1, M, T, L	67	4	13.5	Indef Long ^c	0.59	C-2R	13/16	3/32	3/32	G-6	0.744	1-7/16	B-1	Candelabra Bayonet	SC	—
3, M	89	6	13.0	750	0.58	C-2R	3/4	3/32	3/32	G-6	0.744	1-7/16	B-1	Candelabra Bayonet	SC	—
3	1003	15	12.8	100	0.94	C-6	1-1/16	1/16	1/16	B-6	0.775	1-3/4	B-1	Candelabra Bayonet	SC	90
3	1004	15	12.8	100	0.94	C-6	1-1/16	1/16	1/16	B-6	0.775	1-3/4	B-2	Candelabra Bayonet	DC	90
L, D, P, S, T	1034	32	12.8	200	1.80	C-6	1-1/4	0.04	0.04	S-8	1.041	2	C-2	Candelabra Bayonet Indexing	DC	90
		4	14.0	Indef Long ^c	0.51	C-6	— ^e	— ^e	— ^e	—	—	—	—	—	—	—
B, D, S	1073	32	12.8	200	1.80	C-6	1-1/4	0.04	0.04	S-8	1.041	2	B-1	Candelabra Bayonet	SC	90
D, S	1141	21	12.8	500	1.34	C-6	1-1/4	0.04	0.04	S-8	1.041	2	B-1	Candelabra Bayonet	SC	90
3	1142	21	12.8	500	1.34	C-6	1-1/4	0.04	0.04	S-8	1.041	2	B-2	Candelabra Bayonet	DC	90

^a Complete lists of available bulbs, including specials and replacements, are issued by the bulb manufacturers.

^b Letter and number designations are defined as follows: 1—Instrument; 2—Indicator or Pilot; 3—Interior; B—Back-up; D—Turn Signal; L—License; M—Marker, Clearance, and Identification; P—Parking; S—Stop; T—Tail.

^c Over 2000 hr at 14 v.

^d When bulb No. 81 is operated at 5.5 v, it supplies approximately 3 cp. Therefore, it may be used instead of the 3 cp No. 63 in commercial vehicle applications wherein relatively high voltage drop is experienced at the end of long lines.

^e Dimension X (Fig. 1, SAE Standard, Lamp Bulbs and Bases—SAE J569), Bulb S-8, Base C-2 is 0.110 ± 0.020 in.

TABLE 2—SEALED UNITS (FOR NEW DESIGNS OR ORIGINAL EQUIPMENT)

Type of Service ^a	Trade Name	Design		Rated Average Lab Life, hr	Max Amps at Design Volts	Filament Type	Type and Size Designation	Max Dia, in.	Max Overall Length	Dimensional Specifications	Terminals	No. of Contacts
		watts	volts									
6-Volt Circuits												
H	6006	50-40	6.1-6.2	at 7.0v ^b 75-150	8.60-6.80	C-6-C-6	PAR 56	7.031	5-1/4	Fig. 1 ^c	Lug	3
F	40 12A	35	6.2	80	5.93	C-6	PAR 46	5.70	3-7/8	Fig. 1 ^d	Screw	2
F	40 15A	35	6.2	80	5.93	C-6	PAR 36	4.46	2-3/4	Fig. 2 ^d	Screw	2
4	4515	30	6.4	35	4.95	C-6	PAR 36	4.46	2-3/4	Fig. 2 ^d	Screw	2
4	4535	30	6.4	35	4.95	C-6	PAR 46	5.70	3-7/8	Fig. 1 ^d	Screw	2
12-Volt Circuits												
H	4001	37.5	12.8	at 14.0v ^b 200	3.14	C-6	PAR 46	5.70	4	Fig. 3 ^c	Lug	2
H	4002	37.5-50	12.8-12.8	200-320	3.14-4.20	C-6-C-6	PAR 46	5.70	4	Fig. 4 ^c	Lug	3
H	4005	37.5-50	12.8-12.8	240-400	3.14-4.20	C-6-C-6	PAR 46	5.70	4	Fig. 4 ^c	Lug	3
H	60 12	50-40	12.8-12.8	200-320	4.20-3.36	C-6-C-6	PAR 56	7.031	5-1/4	Fig. 1 ^c	Lug	3
H	60 13	50-40	12.8-12.8	240-400	4.20-3.36	C-6-C-6	PAR 56	7.031	5-1/4	Fig. 1 ^c	Lug	3
4	4405	30	12.8	35	2.58	CC-6	PAR 36	4.46	2-3/4	Fig. 2 ^d	Screw	2
F	44 12A	35	12.8	100	2.93	C-6	PAR 46	5.70	3-7/8	Fig. 1 ^d	Screw	2
F	44 15A	35	12.8	100	2.93	C-6	PAR 36	4.46	2-3/4	Fig. 2 ^d	Screw	2

^a Letter and number designations are defined as follows: 4—Spot; F—Fog; H—Sealed Beam Headlamp.

^b For convenience and simplification of life testing, all lamps designed for use on 6-v circuits are life tested at 7 v, and all lamps designed for use on 12-v circuits are life tested at 14 v.

In general the life at average service voltages is longer.

^c See SAE Standard, Dimensional Specifications for Sealed Beam Headlamp Units—SAE J571.

^d See SAE Recommended Practice, Dimensional Specifications for General Service Sealed Lighting Units—SAE J760.