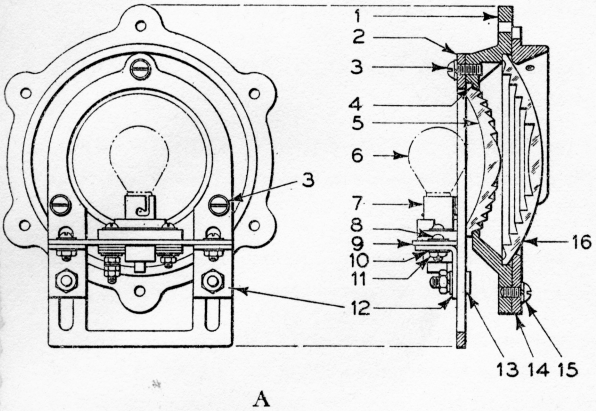
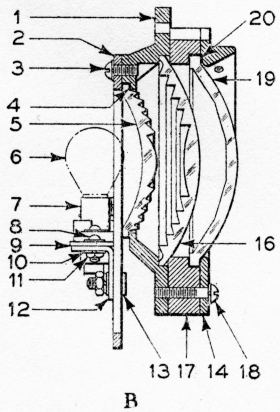
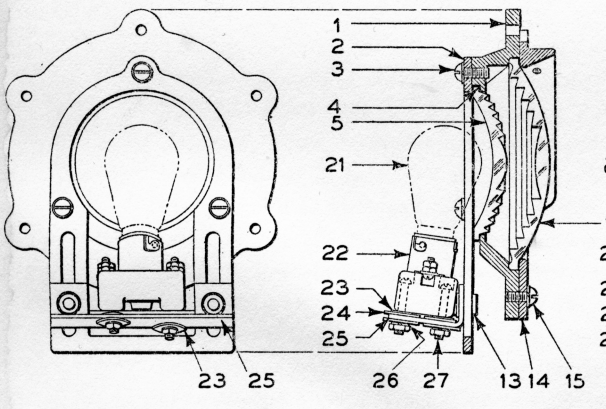
GENERAL RAILWAY SIGNAL COMPANY October 1944



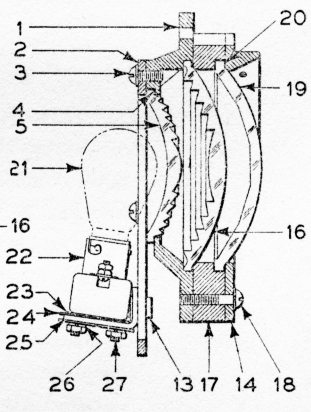
A



B



C



D

Color-Light Signals
Lens Units for Type F Signals, Marker Lights, and Semaphore Lamps

Zachary Gillihan
Digitally signed by Zachary Gillihan
DN: cn=Zachary Gillihan, o=ZCG Utility Scrap, ou, email=zachary.gillihan@gmail.com, c=US
Date: 2018.10.15 10:35:35 -05'00'

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Color-Light Signals

Lens Units for Type F Ground and Dwarf Signals, Marker Lights, and Semaphore Lamps

Note: Lamps are not furnished with lens units. Refer to Section H, Part 39 and order separately.

Inner lenses, Fig. 5 are furnished in CLEAR, GREEN, YELLOW, RED, PURPLE, LINAR WHITE and BLUE. Specify color desired when ordering.

Lens units A, B, C, and D are regularly assembled with a 5″ diameter, plain outer lens Fig. 16. A 5″ dia., 40-degree deflecting outer roundel Fig. 19 is supplied when lens units are for use in ground signals on curved track and in dwarf signals.

On ground signals, this outer roundel is positioned so that its secondary beam is deflected downward and to the left, as viewed when facing the lens, at an angle of 30 degrees from the vertical. On dwarf signals this secondary beam is inverted to deflect upward and to left, as viewed when facing the lens, for close-up indications.

The outer roundel can be rotated to change the angle of deflection as conditions require. If other lenses and lens combinations not listed are required, same must be specified.

Drawing references are shown for convenience in checking shipping lists and invoices.

Fig. No.	Name	Drawing Reference
	Order by plate, figure number and name	
A	Doublet Lens Unit Complete, for use with single contact, candelabra bayonet base lamp, with 5″ dia., 2¾″ focus, outer doublet standard lens Fig. 16 and 3⅝″ dia. inner lens Fig. 5, color as specified. Regularly used in marker lights and semaphore lamps	36762–15
B	as above, except with 5″ dia., 40-degree deflecting outer roundel Fig. 19. When used on Type F dwarf signals, the outer roundel is inverted, deflecting part of the main beam upward and to one side through an angle of 40 degrees. Also for use on Type F ground signals and marker lights on curved track. This lens combination deflects part of the main beam to one side through an angle of 40 degrees. Specify color of inner lens	36762–30
C	same as Fig. A, except for use with rebased lamp. Specify color of inner lens	36762–19

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Color-Light Signals

Lens Units for Type F Ground and Dwarf Signals, Marker Lights, and Semaphore Lamps

Drawing references are shown for convenience in checking shipping lists and invoices.

Fig. No.	Name	Drawing Reference
	Order by plate, figure number and name	
D	same as Fig. B, except for use with rebased lamp. Specify color of inner lens	36762–13
1	Ring for inner and outer lenses. For Figs. A, B, C, and D	43983–27
2	Bezel Ring, for inner lens, and receptacle support. For Figs. A, B, C, and D	43983–5
3	Screw No. 14-24 x 5/8″ rd. hd., as shown, with lock washer	1411–7 0510
4	Candle Wicking, 11″ long, for inner lens Fig. 5	0160
5	Inner Lens, 3 5/8″ dia., 5/8″ focus, clear. For Figs. A, B, C, and D	45926
5a	as above, except green	45926–1
5b	same as Fig. 5, except yellow	45926–2
5c	same as Fig. 5, except red	45926–3
5d	same as Fig. 5, except purple	45926–4
5e	same as Fig. 5, except lunar white	45926–5
5f	same as Fig. 5, except blue	45926–6
6	Incandescent Lamp, single contact, candelabra bayonet base. Refer to Section H, Part 39 and order separately	34866
7	Receptacle Complete, for single contact, candelabra bayonet base lamp. For Figs. A and B	53058 Gr. 3
8	Screw, No. 10-32 x 1/2″ rd. hd., with 1/32″ th. washer for fastening plate Fig. 9 to brackets	2438–1 40791
9	Plate, for mounting receptacle	45955–14
10	Lock Washer, for screw Fig. 8	0622
11	Nut, No. 10—32 x 1/8″ th., for screw Fig. 8	577-2
12	Bracket, for mounting and adjusting receptacle. For Figs. A and B	49092–6
13	Screw No. 14-24 x 3/4″ rd. hd., with hex. nut, lock washer and .040″ th. washer for fastening brackets. Figs. 12 and 24 to bezel ring	3034–3 42839 0510 1225–2
14	Bezel Ring, for outer lens. For Figs. A, B, C, and D	43983–6

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Color-Light Signals

Lens Units for Type F Ground and Dwarf Signals, Marker Lights, and Semaphore Lamps

Drawing references are shown for convenience in checking shipping lists and invoices.

Fig. No.	Name	Drawing Reference
	Order by plate, figure number and name	
15	Screw, No. 14-24 x ½″ rd. hd., with lock washer. For Figs. A and C	50595-2 0510
16	Outer Lens, 5″ dia., 2¾″ focus, outer doublet standard. Regularly used on marker lights and semaphore lamps	45930
16a	as above, except 20-degree half-toric outer lens which gives a 20-degree downward spread for close-up indications. Listed for replacements only	45930-1
16b	same as Fig. 16, except 15-degree Spredlite outer lens which spreads the main beam 7½ degrees to each side of the beam axis for a total spread of 15 degrees. Listed for replacements only	45930-2
17	Ring, for outer roundel Fig. 19. For Figs. B and D	43983-23
18	Screw, No. 14-24 x 1¼″ rd. hd., with lock washer. For Figs. B and D	1411-8 0510
19	Outer Roundel, 5″ dia., 40-degree deflecting, for lens units Figs. B and D. Deflects part of the main beam through an angle of 40 degrees to one side of the beam axis. For use on curved track	9238-39
20	Rubber Gasket, for outer roundel. For Figs. B and D	13014-50
21	Incandescent Lamp. 3-pin rebased. Refer to Section H, Part 39 and order separately	47488
22	Receptacle Complete, for 3-pin rebased lamp. For Figs. C and D	49102-8 Gr. 1
23	Pasteboard Washer, for screw Fig. 27. Insulator between receptacle and bracket	13324
24	Washer, for screw Fig. 27	3890-1
25	Bracket, for mounting and adjusting receptacle. For Figs. C and D	49092-3
26	Lock Washer, for screw Fig. 27	34494
27	Screw, No. 10-32 x 1¼″ rd. hd., with hex. nut for fastening receptacle to bracket	2438-21 577