



Style "H-5" Searchlight Signal Unit

ZCG UTILITY SCRAP  
UNION MO 63084

# Style "H-5" D. C. Three-Position Color Light Searchlight Signal

**ZCG UTILITY SCRAP**  
**UNION MO 63084**

Detail Parts

## D. C. Searchlight Signal Unit for High and Bridge Signals

Unless otherwise specified Signal Units will be furnished as follows:  
250-Ohm Operating Unit, Reference A, Plate B-2889-3; 2'-11" diameter Back-  
ground Reference 64; Cable Outlet Reference 7; U-Bolts and Mounting Bracket  
for application to 5" Pipe Post.

The following material is optional and, if desired, orders should so state: De-  
flecting Cover Glass References 70 to 70e inclusive; Cable Outlets References  
79 and 86; 20" diameter Background Reference 64a; Phankill Unit as shown  
on Plate B-2878.

Inoperative Signal Units are shown on Plate B-2884.

Order by Plate, Piece, Reference and Abbreviated  
Description Given in Heavy Face Type Only

Style "H-5" D.C. Color Light Searchlight Signal Unit with 250-Ohm Op- erating Unit, Background, Lamp, U-Bolts, Mounting Bracket, Conduit and Fittings. Orders should specify lamp (Plate B-2878).				
Piece	Ref.	Mounting	Mounting Bracket	Drawing Reference
	A	Side of Mast	Ref. 41	C-16674-2
	B	Front, Side or Front Top of Mast	Ref. 81	C-16674-2
	C	Bridge or Platform	Ref. 78	C-16674-2
Piece	Ref.	Description		Drawing Reference
104285	2	Case.....		C-16671-10
104303	3	Door with Clip and Gasket.....		C-16671-11
	3a	Gasket, $\frac{3}{8}$ "x $\frac{3}{8}$ "x3'-11 $\frac{1}{2}$ " long, jute packing, for Ref. 3		
103712	3b	Clip for Ref. 3.....		11893-847
54937	3c	Rivet for attaching Clip to Door.....		10301-50
207907	4	Pin.....		B-10207-1
64973	5	Eye Bolt (Cad. Pl.).....		8034-64
140207	6	Hasp Complete.....		8299-66
104275	7	Cable Outlet for 2" S.S. Flexible S. Conduit.....		B-10342-103

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PLATE **B-2882**

UNION SWITCH & SIGNAL CO.

## Style "H-5" D. C. Three-Position Color Light Searchlight Signal

### Detail Parts

## D. C. Searchlight Signal Unit for High and Bridge Signals

(Continued)

Order by Plate, Piece, Reference and Abbreviated  
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Piece	Ref.	Description	Drawing Reference
210991	8	Gasket.....	8078-997
	9	Style "H-5" Searchlight Signal Operating Unit Complete (When ordering assemblies or details refer to Plate B-2889-3).....	C-16673-1
210395	10	Sight Bracket with Tube, Screws, Sight and Clamp Plates.....	C-9105-11
	11	Tap Bolt, $\frac{5}{16}$ "-18x $\frac{7}{8}$ " Hex. Hd. S. (Cad. Pl.) with $\frac{5}{16}$ " S. Plate Washer (Cad. Pl.)	
38851	12	Pin.....	8097-423
103738	13	Lens Adapter.....	C-16671-6
	14	Tap Bolt, $\frac{5}{16}$ "-18x $\frac{5}{8}$ " Hex. Hd. S. (Cad. Pl.) with $\frac{5}{16}$ " Pl. S. Lock Washer ( $\frac{5}{32}$ "x $\frac{3}{32}$ " (Cad. Pl.)	
169298	15	4 $\frac{1}{2}$ " Diam. Clear Inner Lens.....	B-8276-62
169544	16	Lens Ring.....	7436-141
	17	Machine Screw, No. 10-30x $\frac{1}{4}$ " Rd. Hd. Br. (N.P.)	
187830	18	Prism Bracket.....	8735-796
143512	19	Close-Up Deflecting Prism.....	B-8276-33
	20	Cover with Gasket.....	C-16671-6
210400	20a	Gasket for Ref. 20.....	8078-1503
73098	21	Thumb Screw Complete.....	8331-49
169299	22	8 $\frac{3}{8}$ " Diam. Clear Outer Lens.....	B-8276-63
131706	23	Gasket.....	8078-1367
71187	24	Lens Ring.....	7436-106
184414	25	Lens Hood.....	C-9105-26
	26	Machine Screw, No. 14-24x $\frac{3}{8}$ " Rd. Hd. Br. (N.P.) for attaching Lens Ring to Lens Adapter (Not shown).	

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## Detail Parts

### D. C. Searchlight Signal Unit for High

**ZCG UTILITY SCRAP** and Bridge Signals  
**UNION MO 63084**

(Continued)

Order by Plate, Piece, Reference and Abbreviated  
Description Given in Heavy Face Type Only

Piece	Ref.	Description	Drawing Reference
410528	27	Stud.	
	28	Hex. Nut, Std. $\frac{3}{4}$ " (Cad. Pl.)	
146404	29	Washer.....	8065-201
11992	30	Pin.....	8097-92
144627	31	Pin, with $\frac{1}{8}$ "x $\frac{3}{4}$ " S. Cotter.....	B-10212-1
48750	32	Washer.....	7826-117
214525	33	Reflector Complete (Without Resistor) (When ordering assemblies or details refer to Plate B-2897)...	C-16671-5
103717	34	Stud with Nut Ref. 34a.....	8114-916
1530	34a	Nut for Ref. 34.....	8109-38
180544	35	Dowel Pin.....	8097-409
221496	36	Track Complete.....	C-16671-17
	37	Machine Screw, No. 14-24x $\frac{5}{8}$ " Flat Hd. Br. (N.P.)	
	38	Machine Screw, No. 14-24x $\frac{1}{2}$ " Fil. Hd. Bz. (N.P.) with $\frac{1}{4}$ " Pl. S. Lock Washer ( $\frac{3}{32}$ "x $\frac{1}{16}$ " (Tin Pl.)	
104244	39	Wire Chase Bracket.....	10914-942
	40	Machine Screw, No. 10-30x $\frac{3}{8}$ " Rd. Hd. Br. (N.P.)	
147517	41	Bracket Complete for Side of Mast mounting (Inc. 1-42, 1-43 and 1-44) For details refer to Ref. D, Plate B-2896.....	C-9105-9
144205	42	Supporting Bracket.....	C-9105-3
147483	43	Adjusting Bracket.....	C-9105-7
81667	44	Bolt with two Hex. Nuts Ref. 45, Washer Ref. 46 and $\frac{1}{4}$ "x $1\frac{1}{2}$ " S. Cotter (Tin Pl.).....	8479-196
	45	Hex. Jam Nut Std. 1" (Cad. Pl.)	

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PLATE **B-2882**

UNION SWITCH & SIGNAL CO.

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**Detail Parts**

**D. C. Searchlight Signal Unit for High  
and Bridge Signals**

(Continued)

Order by Plate, Piece, Reference and Abbreviated  
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Piece	Ref.	Description	Drawing Reference
80821	46	Washer . . . . .	7826-20
104430	47	R.H. Terminal Board Complete (When ordering as- semblies or details refer to Plate B-2897) . . . . .	C-16671-7
103726	48	L.H. Terminal Board Complete (When ordering as- semblies or details refer to Plate B-2897) . . . . .	C-16671-7
104408	49	Terminal Marker . . . . .	8988-163
	50	Pin, No. 16x $\frac{3}{8}$ " Br.	
104166	51	Wire Clip . . . . .	11893-855
	52	Machine Screw, No. 8-36x $\frac{5}{16}$ " Fil. Hd. Br. (N.P.) for attaching Wire Clip to Case	
211607	53	Cork Gasket . . . . .	8078-1578
	54	Machine Screw, No. 14-24x1" Fil. Hd. Bz. (N.P.)	
	55	Machine Bolt, $\frac{1}{2}$ "-13x1 $\frac{1}{2}$ " Hex. Hd. S. (Cad. Pl.) with $\frac{1}{2}$ " Pl. S. Lock Washer ( $\frac{7}{32}$ "x $\frac{5}{32}$ " (Cad. Pl.) for attaching Cable Outlet to Case	
105392	56	Ins. Sleeve . . . . .	8095-732
213626	57	$\frac{3}{4}$ " Nipple for Case and Door . . . . .	B-10375-4
213628	58	$\frac{3}{4}$ " Ventilator for Case and Door . . . . .	7318-72
	59	$\frac{3}{4}$ " Conduit Bushing for Case and Door.	
213623	60	$\frac{1}{2}$ " Nipple for Lens Adapter . . . . .	B-10375-4
213627	61	$\frac{1}{2}$ " Ventilator for Lens Adapter . . . . .	7318-72
	62	$\frac{1}{2}$ " Conduit Bushing for Lens Adapter	
150318	63	Resistor (1-Ohm) . . . . .	9065-186
144909	63a	Resistor (2-Ohms) . . . . .	9065-186
144910	63b	Resistor (5-Ohms) . . . . .	9065-186

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(Continued)

Order by Plate, Piece, Reference and Abbreviated  
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Piece	Ref.	Description	Drawing Reference
144459	64	Background, 2'-11" Diam.....	C-9105-6
213322	64a	Background, 20" Diam.....	C-9105-17
210318	65	Support (for 2'-11" Diam. background).....	10914-458
213321	65a	Support (for 20" Diam. background).....	10914-1025
165462	66	Bolt with Washer Ref. 66a, Nut Ref. 66b and $\frac{5}{16}$ " Pl. S. Lock Washer ( $\frac{5}{32}$ " x $\frac{3}{32}$ " ) (Cad. Pl.).....	8190-261
1669	66a	Washer for Ref. 66.....	7828-24
1650	66b	Nut for Ref. 66.....	8109-58
43931	67	U-bolt with $\frac{3}{4}$ " Hex. Nuts (Cad. Pl.) for 5" Pipe...	8782-66
44199	67a	U-bolt with $\frac{3}{4}$ " Hex. Nuts (Cad. Pl.) for 6" Pipe...	8782-69
97657	67b	U-bolt with $\frac{3}{4}$ " Hex. Nuts (Cad. Pl.) for 5" Casing	8782-66
	68	Tap Bolt, $\frac{3}{8}$ "-16x $\frac{3}{4}$ " Hex. Hd. S. (Cad. Pl.) with $\frac{3}{8}$ " Pl. S. Lock Washer ( $\frac{11}{64}$ " x $\frac{7}{64}$ " ) (Cad. Pl.)	
	69	Lamp (When ordering refer to Plate B-2878).....	B-12409-
184403	70	10° Deflecting Cover Glass and Adapter Ring Com- plete (10° deflection horizontally to left).....	C-9105-25
184504	70a	10° Deflecting Cover Glass and Adapter Ring Com- plete (10° deflection horizontally to right).....	C-9105-25
184404	70b	20° Deflecting Cover Glass and Adapter Ring Com- plete (20° deflection horizontally to left).....	C-9105-25
184505	70c	20° Deflecting Cover Glass and Adapter Ring Com- plete (20° deflection horizontally to right).....	C-9105-25
184405	70d	30° Spreadlite Cover Glass and Adapter Ring Com- plete (15° spread horizontally in each direction) ..	C-9105-25
228584	70e	16° Convex Spreadlite Cover Glass and Adapter Ring Complete (8° spread horizontally in each direction)	C-9105-25

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(Continued)

Order by Plate, Piece, Reference and Abbreviated  
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Piece	Ref.	Description	Drawing Reference
222600	71	8 <sup>3</sup> / <sub>8</sub> " Diam., 10° Deflecting Cover Glass with Gasket for Refs. 70 and 70a . . . . .	B-8276-77
199883	71a	8 <sup>3</sup> / <sub>8</sub> " Diam., 20° Deflecting Cover Glass with Gasket for Refs. 70b and 70c . . . . .	B-8276-77
216441	71b	8 <sup>3</sup> / <sub>8</sub> " Diam., 30° Spreadlite Cover Glass with Gasket for Ref. 70d . . . . .	B-8276-79
182209	71c	8 <sup>3</sup> / <sub>8</sub> " Diam. Convex 16° Spreadlite Cover Glass with Gasket for Ref. 70e . . . . .	B-8276-76
207803	72	Adapter Ring . . . . .	C-9105-24
90893	73	Gasket . . . . .	8078-1318
	74	Screw, No. 14-24x1 <sup>3</sup> / <sub>8</sub> " Fil. Hd. Bz. for attaching Refs. 70 to 70e inclusive to Lens Adapter (Not shown)	
	75	Screw, No. 14-24x1 <sup>7</sup> / <sub>8</sub> " Fil. Hd. Bz. for attaching Refs. 70 to 70e inclusive to Lens Adapter (Not shown)	
184578	76	Lens Ring . . . . .	7436-106
84244	77	Ventilator . . . . .	7318-64
104579	78	Base for mounting on bridge or platform . . . . .	C-16671-13
104585	79	Cable Outlet with 2" Pipe Tap . . . . .	B-10342-103
	80	Conduit, 2" S.S. Flexible Steel, 16 <sup>3</sup> / <sub>4</sub> " long	
194419	81	Bracket Complete for front, side or front top of Mast mounting (Inc. 1-42, 1-44 and 1-82) For details refer to Ref. A, Plate B-2896 . . . . .	C-9105-9
162983	82	Adjusting Bracket . . . . .	C-9105-15
	83	2" Galv. M. I. Ell	
	84	2" Galv. Nipple	

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## Detail Parts

### D. C. Searchlight Signal Unit for High and Bridge Signals

(Continued)

Order by Plate, Piece, Reference and Abbreviated  
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Piece	Ref.	Description	Drawing Reference
	85	2" Galv. M. I. Straight Box Connector	
218330	86	Cable Outlet with Gasket Ref. 86a (With 1½" Pipe Tap).....	B-10342-124
210991	86a	Gasket.....	8078-997
	87	1½" M. I. Galv. 90° Street Ell	
	88	1½" M.I. Straight Box Connector (Cad. Pl.) for S.S. Flex. S. Conduit	

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