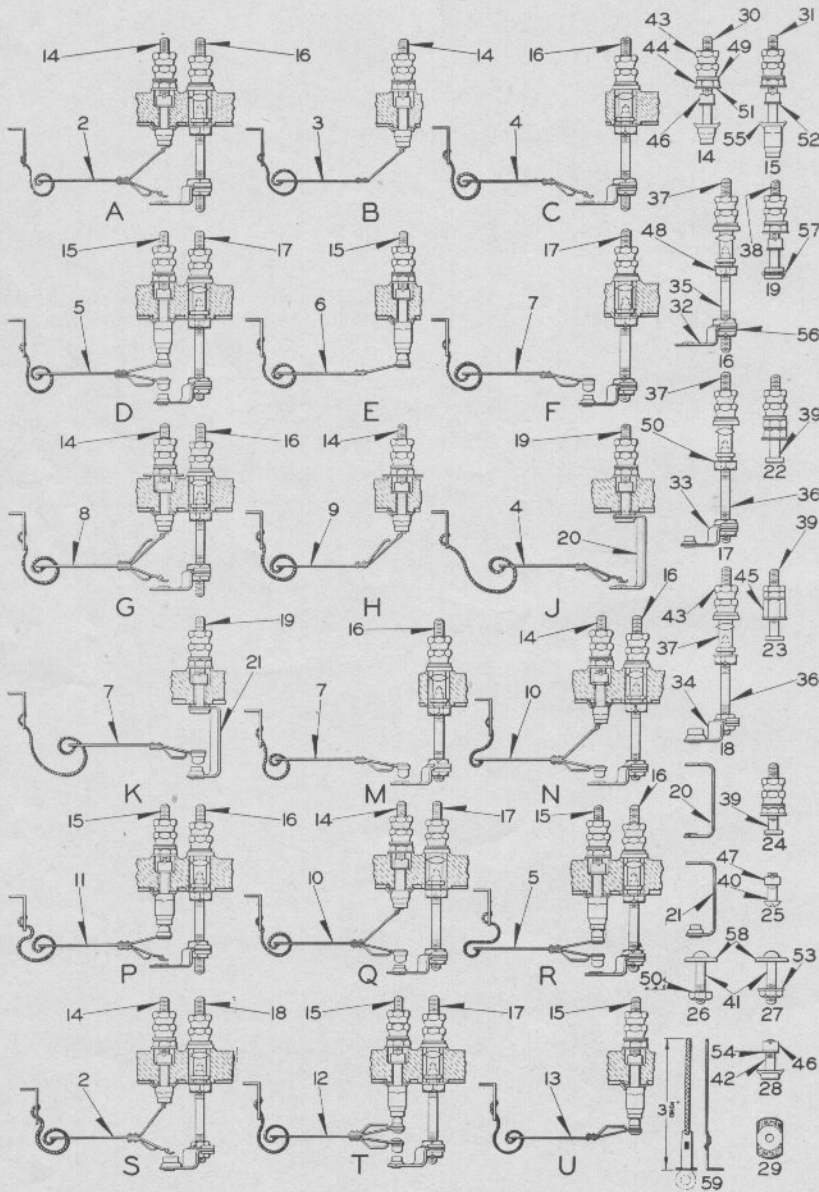


UNION SWITCH & SIGNAL CO.



MODEL 12 DIRECT CURRENT ENCLOSED INTERLOCKING RELAY
DETAIL PARTS

UNION SWITCH & SIGNAL CO.

MODEL 12 DIRECT CURRENT ENCLOSED INTERLOCKING RELAY DETAIL PARTS

For complete Relays refer to Plate E-5040

For other details refer to Plate E-5045

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

Contact Assembly, complete with Contact Spring, Terminal Posts, Nuts, Washers and Lock Washers, Dwg. C-8121, sh. 7							
Piece	Ref.	Contact Spring		Front Post	Back Post	Remarks	Assembly Includes
		Front	Back				
	A	Silver	Silver	Graphite	Silver	Front and Back L. V.	1-2, 1-14 and 1-16
	B	Silver		Graphite		Front only L. V.	1-3 and 1-14
	C		Silver		Silver	Back only L. V.	1-4 and 1-16
	D	Graphite	Graphite	Graphite	Graphite	Front and Back H. V.	1-5, 1-15 and 1-17
	E	Graphite		Graphite		Front only H. V.	1-6 and 1-15
	F		Graphite		Graphite	Back only H. V.	1-7 and 1-17
	G	Silver	Silver	Graphite	Silver	Front and Back L. V. for Auto Flagman	1-8, 1-14 and 1-16
	H	Silver		Graphite		Front only L. V. for Auto Flag- man	1-9 and 1-14
	J		Silver		Silver	Back only L. V. (Intermediate)	1-4, 1-19 and 1-20
	K		Graphite		Graphite	Back only H. V. (Intermediate)	1-7, 1-19 and 1-21
	M		Graphite		Silver	Back only L. V.	1-7 and 1-16
	N	Silver	Graphite	Graphite	Silver	Front and Back L. V.	1-10, 1-14 and 1-16
	P	Graphite	Silver	Graphite	Silver	Front and Back; H. V. Front and L. V. Back	1-11, 1-15 and 1-16

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PLATE E-5046

UNION SWITCH & SIGNAL CO.

MODEL 12 DIRECT CURRENT ENCLOSED INTERLOCKING RELAY DETAIL PARTS (Continued)

For complete Relays refer to Plate E-5040

For other details refer to Plate E-5045

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

Contact Assembly, complete with Contact Spring, Terminal Posts, Nuts, Washers and Lock Washers, Dwg. C-8121, sh. 7							
Piece	Ref.	Contact Spring		Front Post	Back Post	Remarks	Assembly Includes
		Front	Back				
	Q	Silver	Graphite	Graphite	Graphite	Front and Back; L. V. Front and H. V. Back	1-10, 1-14 and 1-17
	R	Graphite	Graphite	Graphite	Silver	Front and Back; H. V. Front and L. V. Back	1-5, 1-15 and 1-16
	S	Silver	Silver	Graphite	Graphite	Front and Back L. V.	1-2, 1-14 and 1-18
	T	Graphite	Graphite	Graphite	Graphite	Front and Back H. V. for Auto Flagman	1-12, 1-15 and 1-17
	U	Graphite		Graphite		Front only H. V. for Auto Flag- man	1-13 and 1-15

UNION SWITCH & SIGNAL CO.

MODEL 12 DIRECT CURRENT ENCLOSED INTERLOCKING RELAY
DETAIL PARTS

(Continued)

For complete Relays refer to Plate E-5040

For other details refer to Plate E-5045

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

Piece	Ref.	Description	Drawing Reference
141145	2	Front and Back L. V. Contact Spring with Connector..	8385-2061
94986	3	Front L. V. Contact Spring with Connector.....	8385-1549
141147	4	Back L. V. Contact Spring with Connector.....	8385-2061
77880	5	Front and Back H. V. Contact Spring with Connector.	8385-1573
77879	6	Front H. V. Contact Spring with Connector.....	8385-1573
79365	7	Back H. V. Contact Spring with Connector.....	8385-1573
141153	8	Front and Back L. V. Contact Spring with Connector (For Automatic Flagman).....	8385-2063
79385	9	Front L. V. Contact Spring with Connector (For Auto- matic Flagman).....	8385-1661
94987	10	Front and Back (L. V. Front and H. V. Back) Contact Spring with Connector.....	8385-1723
151151	11	Front and Back (H. V. Front and L. V. Back) Contact Spring with Connector.....	8385-2062
151564	12	Front and Back H. V. Contact Spring with Connector for Automatic Flagman.....	8385-2161
151566	13	Front H. V. Contact Spring with Connector for Auto- matic Flagman.....	8385-2161
127790	14	Front Terminal Post (Graphite Tip) complete with Nuts, Washers and Lock Washers (Includes 1-30, 2-43, 1-44, 1-46, 2-49, 1-51, 1-52 and 1-55).....	12451-188
	15	Front Terminal Post (Graphite Tip) complete with Nuts, Washers and Lock Washers (Includes 1-31, 2-43, 1-44, 1-46, 2-49, 1-51, 1-52 and 1-55).....	12451-

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PLATE E-5046

UNION SWITCH & SIGNAL CO.

MODEL 12 DIRECT CURRENT ENCLOSED INTERLOCKING RELAY DETAIL PARTS (Continued)

For complete Relays refer to Plate E-5040

For other details refer to Plate E-5045

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

Piece	Ref.	Description	Drawing Reference
155462	16	Back Terminal Post L. V. (Silver Tip) complete with Nuts, Washers and Lock Washers (Includes 1-32, 1-35, 1-37, 2-43, 2-44, 1-48, 2-49, 1-50 and 1-56).....	12451-189
	17	Back Terminal Post H. V. (Graphite Tip) complete with Nuts, Washers and Lock Washers (Includes 1-33, 1-36, 1-37, 2-43, 2-44, 1-48, 2-49, 1-50 and 1-56)	12451-
	18	Back Terminal Post H. V. (Graphite Tip) complete with Nuts, Washers and Lock Washers (Includes 1-34, 1-36, 1-37, 2-43, 2-44, 1-48, 2-49, 1-50 and 1-56)	12451-
128348	19	Back Terminal Post, complete with Nuts, Washers and Lock Washers (Includes 1-38, 2-43, 1-44, 1-46, 2-49, 1-50, 1-52, 1-55 and 1-57).....	12451-192
141077	20	Back Intermediate Contact L. V.....	8094-2176
122073	21	Back Intermediate Contact H. V.....	8094-1205
	22	Terminal Post, for Magnet Leads complete with Nuts and Washers (Includes 1-39, 2-43, 2-44, 3-49 and 1-50).....	12451-
155253	23	Terminal Post, complete with Nuts and Washers (Includes 1-39, 2-44, 1-45, 1-49 and 1-50).....	12451-121
78078	24	Terminal Post, complete with Nuts and Washers (Includes 1-39, 2-43, 1-44, 2-49 and 1-50).....	12451-44
	25	Dummy Post with Nut Ref. 47 for front contact post hole of relay.....	12471-3
94436	26	Dummy Post as shown for outside back post hole of relay.....	12471-3
	27	Dummy Post as shown for back of relay.....	12471-

UNION SWITCH & SIGNAL CO.

MODEL 12 DIRECT CURRENT ENCLOSED INTERLOCKING RELAY DETAIL PARTS (Continued)

For complete Relays refer to Plate E-5040

For other details refer to Plate E-5045

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

Piece	Ref.	Description	Drawing Reference
	28	Screw as shown for use with release spring when no front contacts are used on relay.....	12471-
92115	29	Washer, for Flagman Contact Post.....	7828-337
92117	30	Front Terminal Post only with Graphite Tip.....	8094-1185
92295	31	Front Terminal Post only with Graphite Tip.....	8094-1185
98905	32	Back Terminal Post only with Silver Tip.....	8094-2034
76160	33	Back Terminal Post only with Graphite Tip.....	8094-2034
114323	34	Back Terminal Post only with Graphite Tip.....	8094-1257
46277	35	Terminal Post for L. V. Back Contact.....	8094-874
31064	36	Terminal Post for H. V. Back Contact.....	8094-654
30813	37	Terminal Post for Refs. 16, 17 and 18.....	8094-639
31668	38	Terminal Post for Ref. 19.....	8094-706
29145	39	Terminal Post for Refs. 22, 23 and 24.....	8094-706
	40	Machine Screw No. 14-24x $\frac{3}{4}$ " Rd. Hd. S. (Cad. Pl.) for Ref. 25.	
31067	41	Screw only for Refs. 26 and 27.....	8098-558
121215	42	Screw only for Ref. 28.....	8098-1397
29101	43	Hex. Nut.....	8109-193
29103	44	Hex. Nut.....	8109-194
56635	45	Hex. Nut.....	8109-324
69706	46	Square Nut.....	8109-383

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PLATE E-5046

UNION SWITCH & SIGNAL CO.

MODEL 12 DIRECT CURRENT ENCLOSED INTERLOCKING RELAY DETAIL PARTS (Continued)

For complete Relays refer to Plate E-5040

For other details refer to Plate E-5045

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

Piece	Ref.	Description	Drawing Reference
72948	47	Square Nut.....	8109-383
31670	48	Hex. Nut.....	8109-218
29102	49	Washer.....	7828-139
29104	50	Washer.....	7828-138
69705	51	Washer.....	7828-287
70539	52	Washer.....	8274-73
2615	53	Washer.....	7828-10
38448	54	Washer.....	7826-98
29063	55	Lock Washer.....	8486-111
32186	56	Lock Washer.....	8486-129
55794	57	Lock Washer.....	8486-267
36088	58	Washer for Refs. 26 and 27.....	7828-138
97875	59	Flexible Connector with Terminal for Contact Springs	10934-162