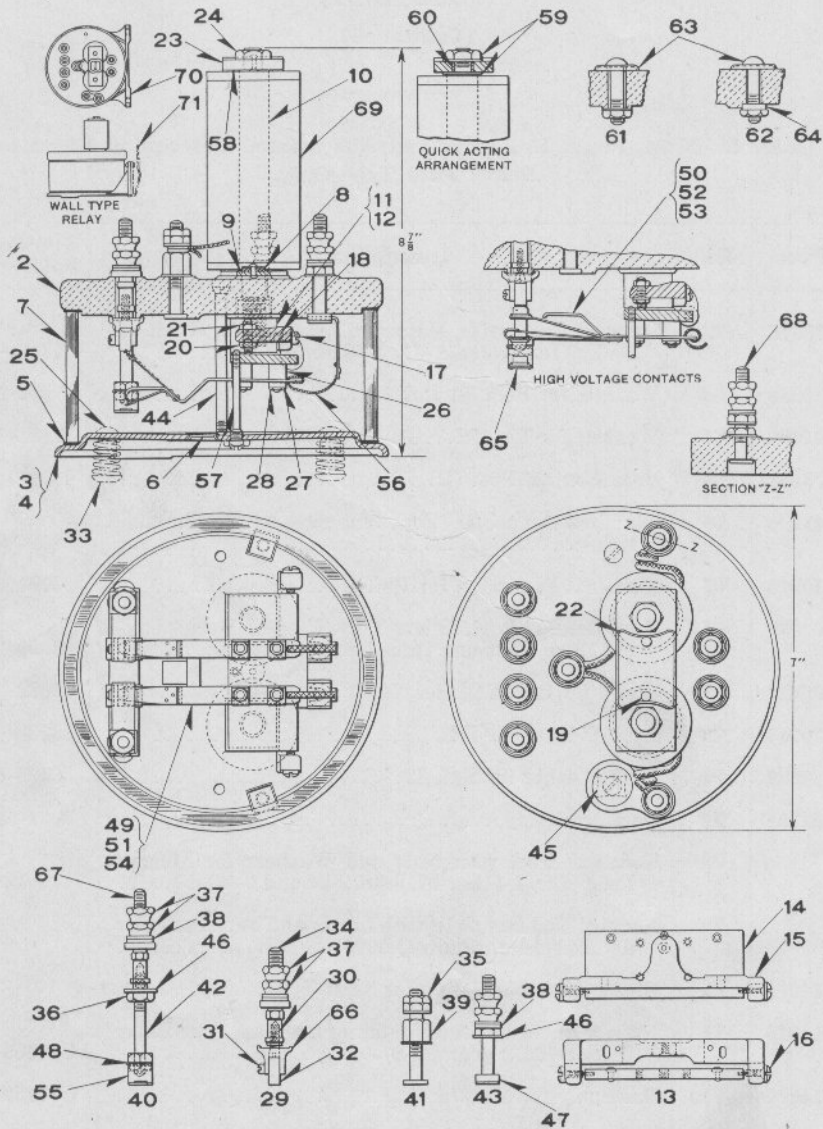


UNION SWITCH & SIGNAL COMPANY



DETAILS OF MODEL 13 ROUND BASE NEUTRAL RELAY
(TWO-POINT)

UNION SWITCH & SIGNAL COMPANY

DETAILS OF MODEL 13 ROUND BASE NEUTRAL RELAY

(TWO-POINT)

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

Piece	Ref.	Description	Drawing Reference
76089	2	Top Plate with Gasket Ref. 5.....	C-7459-11
76002	3	Bottom Plate with Gasket and Ventilator (Inc. 1-4, 1-5 and 1-6).....	10937-1
145361	3a	Bottom Plate with Gasket, Ventilator, Studs and Shock Absorber Springs (Inc. 1-4a, 1-5, 1-6, 4-25 and 4-33).....	10937-5
46517	4	Bottom Plate only, for Ref. 3.....	10937-1
145360	4a	Bottom Plate only, for Ref. 3a.....	10937-5
33872	5	Gasket.....	8078-76
34340	6	Ventilator.....	C-7459-6
35872	7	Glass Shield.....	8163-96
75337	8	Core Plate.....	C-7459-10
51611	9	Washer used under Magnet Coil.....	7828-218
51617	10	Core.....	8101-206
51618	11	L. H. Pole Piece.....	8250-44
51619	12	R. H. Pole Piece.....	8250-44
96901	13	Armature with Bracket and Trunnions (Inc. 1-14, 1-15 and 2-16).....	C-7459-8
69762	14	Armature only, for Ref. 13.....	8157-228
49143	15	Bracket only, for Ref. 13.....	8303-68
47579	16	Trunnion for Ref. 13.....	8378-197
	17	Machine Screw No. 8-36x $\frac{1}{2}$ " Fil. Hd. Br. for fasten- ing Ref. 15 to Pole Piece.	

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DETAILS OF MODEL 13 ROUND BASE NEUTRAL RELAY

(TWO-POINT)

(Continued)

Order by Plate, Piece, Reference and Abbreviated Description Given in
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Piece	Ref.	Description	Drawing Reference
49067	18	Dowel Pin for Armature Bracket.....	8097-336
	19	Drive Screw No. $4 \times \frac{1}{16}$ " (N. P.) for fastening Ref. 22 to Back Strap.	
	20	Screw (Core Pin) with Nut Ref. 21.....	12471
49141	20a	Screw (Core Pin) only for Ref. 20.....	8098-887
26942	21	Nut for Ref. 20.....	8109-184
46539	22	Name Plate.....	8225-135
46540	23	Back Strap only.....	8162-146
51610	24	Nut for Ref. 10.....	8265-161
131215	25	Stud for Ref. 3a.....	8114-631
22621	26	Bushing.....	8095-199
19409	27	Lock Washer for Ref. 26.....	8486-68
1515	28	Nut for Ref. 26.....	8109-23
72926	29	Terminal Post with Graphite Tip, Screw, Nuts and Washers (Inc. 1-66, 1-30, 1-31, 1-32, 2-37, 2-38 and 1-34).....	12451-54
30810	30	Screw for fastening Ref. 29 to Ref. 67.....	8098-538
	31	Machine Screw No. $6-40 \times \frac{1}{2}$ " Fil. Hd. Blued Steel for fastening Graphite Tip Ref. 32 to Ref. 29.	
30811	32	Graphite Front Contact Tip.....	8341-32
69758	32a	Silver Front Contact Tip (Special).....	8341-71
410218	33	Shock Absorber Spring for Shelf Type Relays.	

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DETAILS OF MODEL 13 ROUND BASE NEUTRAL RELAY

(TWO-POINT)

(Continued)

Order by Plate, Piece, Reference and Abbreviated Description Given in
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Piece	Ref.	Description	Drawing Reference
30812	34	Terminal Post only for Ref. 29.....	8094-639
29103	35	Nut.....	8109-194
31670	36	Nut for Ref. 40.....	8109-218
29101	37	Nut.....	8109-193
29102	38	Washer.....	7828-139
56635	39	Nut for Ref. 41.....	8109-324
91828	40	Terminal Post with Nuts, Washers and Back Contact (Inc. 1-67, 1-42, 2-35, 1-36, 1-46, 1-48, 2-37, 2-38 and 1-55).....	12451-20
112832	40a	Terminal Post with Nuts, Washers and Back Contact (Inc. 1-67, 1-42, 2-35, 1-36, 1-46, 1-48, 2-37, 2-38 and 1-65).....	12451-20
	41	Terminal Post with Nuts and Washers (Inc. 1-41a, 2-35, 1-39 and 1-46).....	12451-121
29147	41a	Terminal Post only, for Ref. 41.....	8094-706
46277	42	Terminal Post only, for Ref. 40.....	8094-874
	43	Terminal Post with Nuts, Washers and Lock Washers (Inc. 1-43a, 2-37, 2-38, 1-35, 1-47 and 1-46).....	12451
30108	43a	Terminal Post only, for Ref. 43.....	8094-706
35873	44	Screw for fastening Bottom Plate to Ref. 2.....	8098-572
37761	45	Anchor Washer for Ref. 44.....	7828-168
29104	46	Washer.....	7828-138
132658	47	Lock Washer, for Ref. 43.....	8486-369
32186	48	Lock Washer, for Ref. 40.....	8486-129

UNION SWITCH & SIGNAL COMPANY

DETAILS OF MODEL 13 ROUND BASE NEUTRAL RELAY

(TWO-POINT)

(Continued)

Order by Plate, Piece, Reference and Abbreviated Description Given in
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Contact Springs				
Piece	Ref.	Description	Remarks	Drawing Reference
69755	49	L. V. Front and Back		8385-1320
69759	50	H. V. Front and Back		8385-1334
69756	51	L. V. Front		8385-1321
76280	52	H. V. Front		8385-1338
82292	53	H. V. Back		8385-1652
86140	54	L. V. Back		8385-1320
Piece	Ref.	Description		Drawing Reference
74804	55	Back Contact Post (L. V.) for Ref. 40		8094-2034
97875	56	Terminal Connector		10934-162
	57	Screw with Nut (Inc. 1-57a and 1-35 used for shipping)		12471
51615	57a	Screw only, for Ref. 57		8098-951
121374	57b	Screw (Used in place of Ref. 57 when installed)		8098-1289
122646	58	Washer		8078-1366
25153	59	Washer (Used for quick acting Relay)		7828-127
25107	60	Bushing (Used for quick acting Relay)		C-7459-2
94436	61	Dummy Post, with Nuts and Washers for front of Relay (Inc. 1-61a, 1-35, 1-46 and 1-63)		12471-3
31067	61a	Dummy Post only, for Ref. 61 and 62		8098-558
98875	62	Dummy Post, with Nuts and Washers for back of Relay (Inc. 1-61a, 1-35, 1-63 and 1-64)		12471-11

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DETAILS OF MODEL 13 ROUND BASE NEUTRAL RELAY
(TWO-POINT)
(Continued)

Order by Plate, Piece, Reference and Abbreviated Description Given in
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Piece	Ref.	Description	Drawing Reference
36088	63	Washer, for Refs. 61 and 62.....	7826-136
31068	64	Washer, for Ref. 62.....	7828-144
76384	65	Back Contact Post only (H. V.).....	8094-2034
30274	66	Terminal Post only for Ref. 29.....	8094-641
30813	67	Terminal Post only for Ref. 40.....	8094-639
	68	Terminal Post with Nuts and Washers (Inc. 1-41a, 2-37, 3-38, 2-35 and 1-46).....	12541
	69	Magnet Coil complete with Leads and Terminals (for details refer to Plate E-5025).....	8133
114929	70	Base with Gasket and Ventilator for Wall Type Relays (Inc. 1-70a, 1-5 and 1-6).....	C-7459-15
114877	70a	Base only for Ref. 70.....	C-7459-15
149677	71	Shock Absorber Spring for Wall Type Relays.....	12404-19