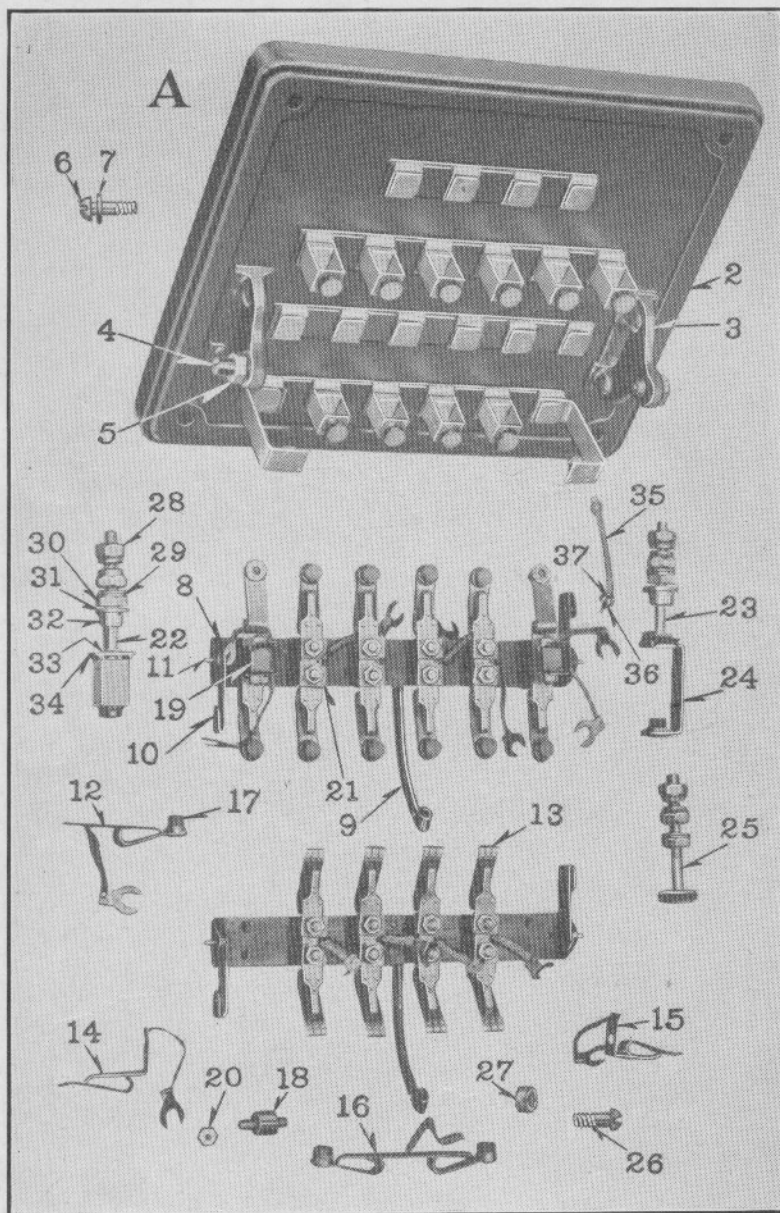


UNION SWITCH & SIGNAL CO.

Zachary C. Gillihan 2008



CIRCUIT CONTROLLING MECHANISM AND DETAILS FOR SV-12 AND TWO AND THREE POSITION MODEL 15 VANE RELAY

UNION SWITCH & SIGNAL CO.

Zachary C. Gillihan 2008**CIRCUIT CONTROLLING MECHANISM AND DETAILS FOR SV-12 AND TWO
AND THREE POSITION MODEL 15 VANE RELAY****Order by Plate, Piece, Reference and Description**

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

Piece	Ref.	Description	Drawing Reference
76151	A	Top Plate, complete (includes 1-2, 2-3, 4-6 and 4-7) for Relays having a maximum of 6 Fr. and 6 Bk. non-independent contacts.	C-8814-10
76150	Aa	Top Plate, complete (includes 1-2a, 2-3, 4-6 and 4-7) for Relays having a maximum of 12 Fr. or Bk. independent Contacts.	C-8814-10
81397	2	Top Plate only for A.	C-8814-10
81396	2a	Top Plate only for Aa.	C-8814-10
69724	3	Bracket for 8.	C-8814-9
51924	4	Trunnion Screw.	8378-233
96403	4a	Trunnion Screw, complete with Nut 5.	12471-5
29577	5	Nut for 4a.	8109-205
	6	Screw, No. 14-24 x $\frac{7}{8}$ " Fil. Hd. Br. Mach. for fastening 3 to 2.	
69701	7	Washer for 6.	7828-320
61769	8	Contact Spring Support only.	C-8814-4
71031	8a	Contact Spring Support, complete (3-Position Relay) (1-8, 1-9, 2-9a, 2-10, 2-10a and 2-11).	C-8814-4
69702	8b	Contact Spring Support, complete (1-8, 1-9, 2-10a and 2-11) for Model 15 2-Position and SV-12 Relay This spring support is drilled and tapped for complete equipment with insulating bushing 18; when insulating block 19 is used, the necessary holes should be reamed.	C-8814-4
61770	9	Operating Arm for Support 8.	C-8814-4
54933	9a	Rivet for fastening 9 to 8.	10301-30
61710	10	Link Bracket for Support 8.	C-8814-2
37417	10a	Rivet for fastening 10 to 8.	10301-21
48786	11	Trunnion Pivot for Support 8.	8378-213

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CIRCUIT CONTROLLING MECHANISM AND DETAILS FOR SV-12 AND TWO

AND THREE POSITION MODEL 15 VANE RELAY
 (Continued)

Order by Plate, Piece, Reference and Description

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Piece	Ref.	Ind. or Non-Ind.	Front, Back Nor. or Rev.	Silver or Graphite	Sv	For Relay Model 15	Dwg. Ref. 8385 sh.
						Position	
69709	12	Ind.	F, N or R	G	12	2 or 3	1059
88945	12a	"	F, N or R	S	12	2 or 3	1659
113345	12b	"	B	S	12	2	1659
80848	12c	"	B	G	12	2	1059
88944	13	Non-Ind.	F & B	S	12	2	1659
98087	13a	"	N & R	S		3	1659
93591	13b	"	*D	S		3	1659
113334	13c	"	†D	S		3	1659
110663	14	Ind.	F, N or R	S	12	2 or 3	1882
112738	14a	"	B	S	12	2	1882
70629	14b	"	F, N or R	G	12	2 or 3	1556
78658	14c	"	B	G	12	2	1556
110664	15	"	F or N	S	12	2 or 3	1882
70630	15a	"	F or N	G	12	2 or 3	1556
69708	16	Non-Ind.	F & B	G	12	2	1058
69568	16a	"	N & R	G		3	1120
71030	16b	"	Buffer	G		3	1058

*D—Contacts made when relay is de-energized—no flexible connector.

†D—Contact made when relay is de-energized—with flexible connector.

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AND THREE-POSITION MODEL 15 VANE RELAY**

(Continued)

Order by Plate, Piece, Reference and Description

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Piece	Ref.	Description	Drawing Reference
112166	17	Contact Spring (flexible part only) Ph. Bz. (.010") with graphite tip for N or R Contacts of 3-Position or front Contacts of 2-Position Relays.....	8385-1058
	17a	Contact Spring (flexible part only) Ph. Bz. (.008") with graphite tip for back Contact of 2-Position Relay.....	8385-
	17b	Contact Spring (flexible part only) Ph. Bz. (.100") with silver tip for N or R Contacts of 3-Position or for front Contacts of 2-Position Relays.....	8385-
	17c	Contact Spring (flexible part only) Ph. Bz. (.008") with silver tip for back Contact of 2-Position Relay.....	8385-
22621	18	Insulating Bushing for Contact Springs 12, 13 and 16	8095-199
62135	19	Insulating Block for independent Contact Springs 14 and 15.....	9968-397
1515	20	Nut for 18 and 19.....	8109-23
19409	21	Lock Washer for 20.....	8486-68
112417	22	Terminal Post only for Contact Holder.....	8094-1192
91272	22a	Terminal Post, complete includes (1-22, 1-22c, 1-30, 1-31, 1-32, 1-33, 1-34, 2-28, and 2-29).....	12451-22
	22b	Terminal Post, complete silver contact, includes (1-22, 1-22d, 1-30, 1-31, 1-32, 1-33, 1-34, 2-28 and 2-29).....	12451-
112419	22c	Contact Holder, complete with Graphite Contact ..	8094-1193
114307	22d	Contact Holder, complete with silver Contact.....	8094-1256
70627	23	Terminal Post for Bracket 24.....	8094-797
128349	23a	Terminal Post and Bracket, complete (includes 1-23, 1-24, 1-30, 1-31, 1-32, 1-33, 1-34, 2-28 and 2-29)...	12451-193
72667	24	Terminal Bracket with graphite contact for Contact. Spring 15.....	8094-1190

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CIRCUIT CONTROLLING MECHANISM AND DETAILS FOR SV-12 AND TWO
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(Continued)

Order by Plate, Piece, Reference and Description

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Piece	Ref.	Description	Drawing Reference
112417	25	Terminal Post with Lock Washer Ref. 34a for flexible Connectors and Coil Leads.....	8094-706
94948	25a	Terminal Post, complete (includes 1-25, 1-30, 1-31, 1-34, 2-28 and 2-29).....	12451-200
	26	Dummy Post Screw, No. 14-24 x $\frac{3}{4}$ " Rd. Hd. S. Mach. (Sher.) in place of 23a.	
72948	27	Nut slotted for 26.....	8109-383
29101	28	Nut.....	8109-193
29102	29	Washer ($\frac{9}{16}$ ").....	7828-139
29103	30	Nut.....	8109-194
69705	31	Washer ($\frac{11}{16}$ ").....	7828-287
69706	32	Nut, slotted.....	8109-383
70539	33	Washer, lead.....	8274-73
29063	34	Lock Washer (used with terminal Posts having head $\frac{1}{2}$ " square).....	8486-111
121616	34a	Lock Washer (used with terminal posts having head $\frac{3}{8}$ " square).....	8486-362
72021	35	Connector, flexible, braided ($1\frac{3}{4}$ " long).....	10934-107
73587	35a	Connector, flexible, braided (3" long).....	10934-107
	36	Screw, No. 6-40 x $\frac{1}{4}$ " Rd. Hd. Br. Mach. for fastening 35 to 8 and Relay Case.	
20686	37	Washer, ($\frac{5}{16}$ ") for 36.....	7828-108