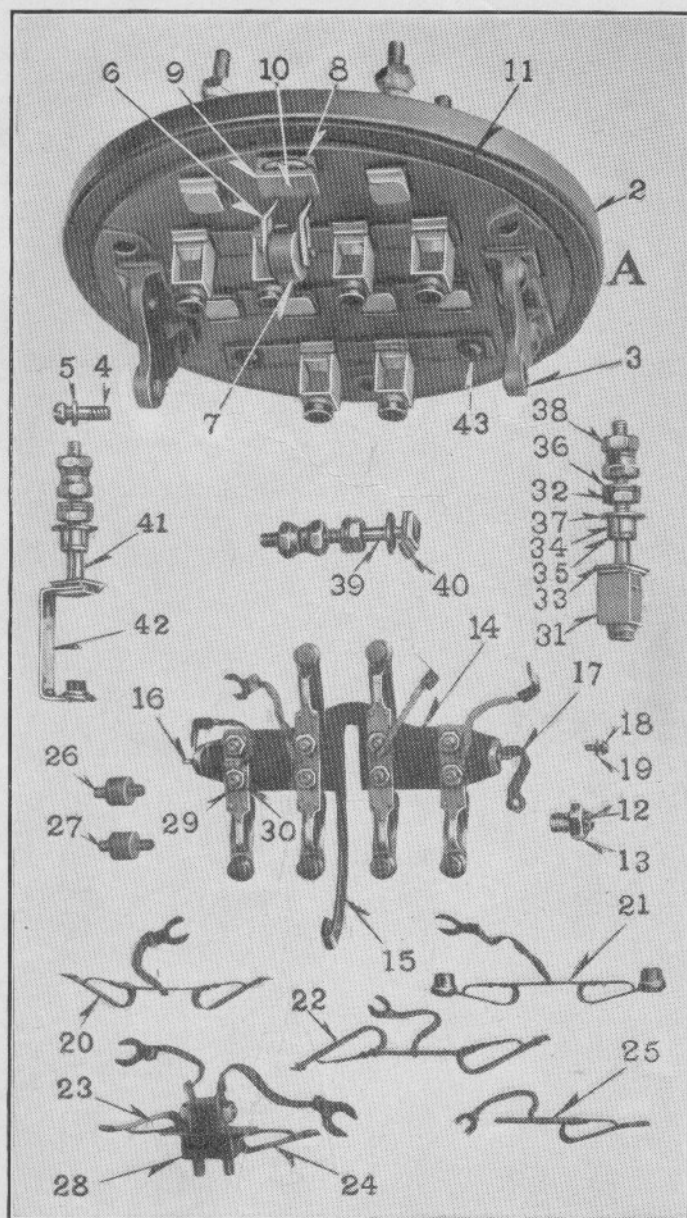


Zachary C. Gillihan 2008
UNION SWITCH & SIGNAL CO.



CIRCUIT CONTROLLING MECHANISM AND DETAILS FOR
SLV-13 VANE RELAY

UNION SWITCH & SIGNAL CO.

CIRCUIT CONTROLLING MECHANISM AND DETAILS FOR
SLV-13 VANE RELAY

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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
69269	A	Top Plate, complete, (includes 1-2, 2-3, 4-4, 4-5 and 1-11) for Relays having a maximum of 4 Fr.& 4 Bk. non-independent contacts.....	C-8946-1
78415	Aa	Top Plate, complete, (includes 1-2a, 2-3, 4-4, 4-5 and 1-11) for Relays having a maximum of 8 Fr. or Bk. independent contacts.....	C-8946-1
80660	2	Top Plate only for A and 2b.....	C-6770-9
80112	2a	Top Plate only for Aa and 2c.....	C-6770-11
73315	2b	Top Plate, complete, with Gasket Ref. 11 for A....	C-6770-9
128354	2c	Top Plate, complete, with Gasket Ref. 11 for Aa...	C-6770-11
66724	3	Bracket for A and Aa.....	C-8814-9
	4	Screw, No. 14-24 x $\frac{3}{8}$ " Fil. Hd. Br. Mach. for fastening 3 to 2.	
69701	5	Washer for 4.....	7828-320
90714	6	Bracket for Upper Roller.....	8124-198
69693	7	Stop Roller.....	8095-417
110335	8	Clamp (upper) for fastening 6 to 2.....	11893-115
110336	9	Clamp (lower) for fastening 6 to 2.....	11893-115
	10	Screw, No. 10-30 x $\frac{1}{4}$ " Fil. Hd. Br. Mach. for fastening 6 to 2.	
44618	10a	Washer for 10.....	7828-185
71863	11	Gasket, between Top Plate and Shield.....	8078-1344
51924	12	Trunnion Screw.....	8378-233
96403	12a	Trunnion Screw, complete with Nut 13.....	12471-5
29577	13	Nut for 12a.....	8109-205
74762	*14	Contact Spring Support only.....	11893-70

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(Continued)

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Piece	Ref.	Description	Drawing Reference
72006	*14a	Contact Spring Support, complete (includes 1-14, 1-15, 2-16 and 2-15a)..... *This spring support is drilled and tapped for complete equipment with insulating bushings 26. When insulating block 28 is used, the necessary holes should be reamed.	C-6770-11
72007	15	Operating Arm.....	C-6770-10
37417	15a	Rivet for fastening 15 to 14.....	10301-21
48786	16	Trunnion Pivot.....	8378-213
72021	17	Connector, Flexible Braided.....	10934-107
	18	Screw, No. 6-40 x 1/4" Fil. Hd. Br. Mach. for fastening 17 to 14.	
20686	19	Washer for 18.....	7828-108

Piece	Ref.	Ind. or Non-Ind.	Fr. or Back	Tip Material	Dwg. Ref. 8385 sh.	Remarks
88944	20	non-ind.	F & B	Silver	1659	As shown
69708	21	non-ind.	F & B	Graphite	1058	As shown
113123	22	non-ind.	2 F	Silver	1897	As shown
110664	23	ind.	F	Silver	1882	As shown, used with post 42
70630	23a	ind.	F	Graphite	1556	Tip similar to 21
110663	24	ind.	F	Silver	1882	As shown, used with post 31
112738	24a	ind.	B	Silver	1882	Similar to 24
70629	24b	ind.	F	Graphite	1556	Tip similar to 21
78658	24c	ind.	B	Graphite	1556	Tip similar to 21
88945	25	ind.	F	Silver	1659	As shown
69709	25a	ind.	F	Graphite	1059	Tip similar to 21
80848	25b	ind.	B	Graphite	1059	Tip similar to 21
113345	25c	ind.	B	Silver	1659	As shown

A heavier gauge (.010") spring material is used for front contacts than for back contacts (.008" gauge) on account of energy being available to close front contacts.

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SLV-13 VANE RELAY

(Continued)

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Piece	Ref.	Description	Drawing Reference
22621	26	Insulating Bushing for 20, 21, 22 and 25.....	8095-199
35324	27	Insulating Bushing for 20, 21, 22 and 25, to be used where 15 is riveted to 14.....	8095-412
62135	28	Insulating Block for 23 and 24.....	9968-397
1515	29	Nut for 26, 27 and 28.....	8109-23
19409	30	Lock Washer for top of 26, 27 and 28.....	8486-68
74798	30a	Lock Washer for bottom of 27 and 28.....	8486-155
112417	31	Terminal Post only, for Contact Holder.....	8094-1192
91272	31a	Terminal Post complete (1-31, 1-31b, 1-32, 1-33, 1-34, 1-35, 1-37, 2-36, 2-38).....	12451-22
112419	31b	Contact Holder, complete with Graphite Contact ..	8094-1193
114307	31c	Contact Holder, complete with Silver Contact.....	8094-1256
29103	32	Nut for 31, 39, 41, 43.....	8109-194
29063	33	Lock Washer.....	8486-111
69706	34	Nut, slotted.....	8109-383
70539	35	Washer, lead.....	8274-73
29102	36	Washer ($\frac{9}{16}$ ").....	7828-139
69705	37	Washer ($\frac{11}{16}$ ").....	7828-287

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Piece	Ref.	Description	Drawing Reference
29101	38	Nut.....	8109-193
112417	39	Terminal Post with Lock Washer Ref. 40a for Flexible Connectors and Coil Leads.....	8094-1192
94948	39a	Terminal Post, complete (includes 1-39, 2-36, 1-37, 2-38, 1-32, 1-40).....	12451-200
29062	40	Lock Washer (Used with Terminal Posts having head $\frac{1}{2}$ " square).....	8486-110
121616	40a	Lock Washer (Used with Terminal Posts having head $\frac{3}{8}$ " square).....	8486-362
70627	41	Terminal Post for Bracket 42.....	8094-797
128349	41a	Terminal Post and Bracket, complete (includes 1-32, 1-33, 1-34, 1-35, 1-37, 1-41, 1-42, 2-36, 2-38).....	12451-193
72667	42	Contact Bracket for 23.....	8094-1190
	43	(Dummy Post) Screw, No. 14-24 x $\frac{3}{4}$ " Rd. Hd. S. Mach. (Sher.)	
72948	43a	Nut slotted for 43.....	8190-383