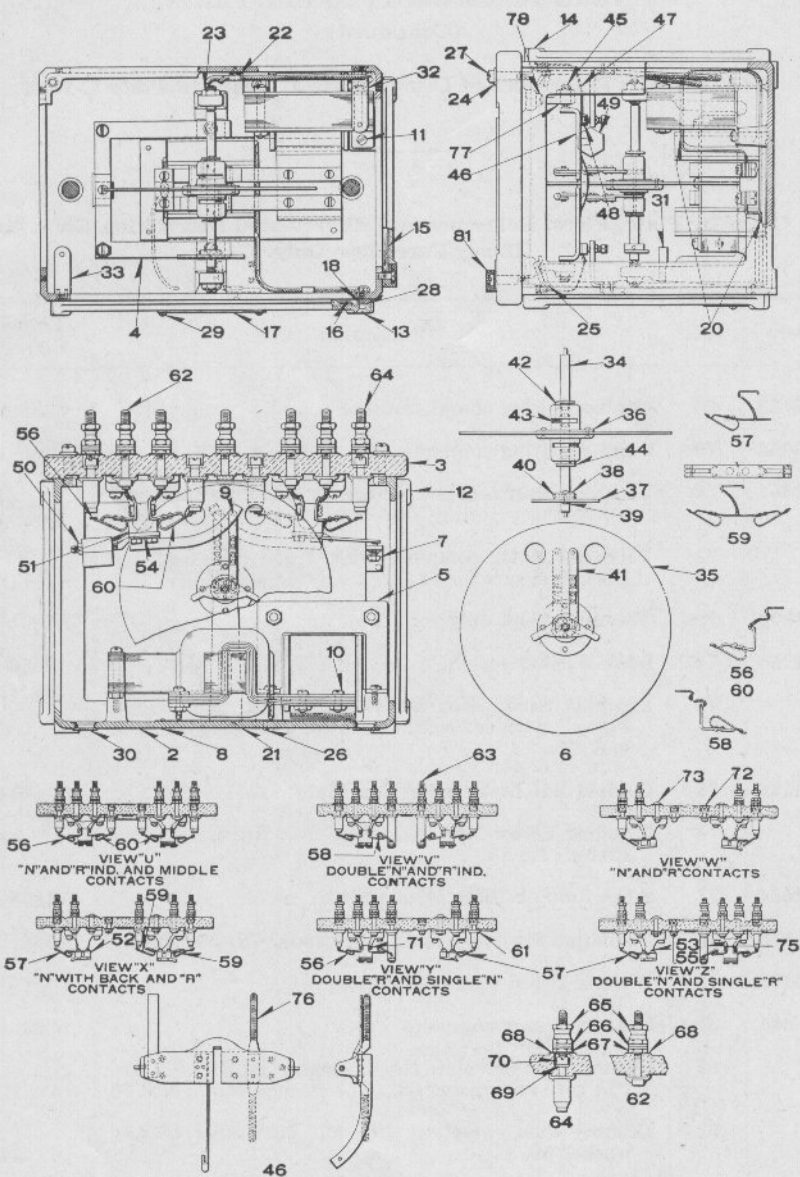


UNION SWITCH & SIGNAL CO.

Zachary C. Gillihan 2008



STYLE TV-30 THREE-POSITION VANE RELAY DETAILS

UNION SWITCH & SIGNAL CO.

STYLE TV-30 TWO-ELEMENT THREE-POSITION VANE TRACK
RELAY DETAILS

For Ordering References of Complete Relay Refer to Plate E-1071

Zachary C. Gillihan 2008

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

Piece	Ref.	Description	Drawing Reference
117977	2	Case complete with Ventilators and Straps.....	C-8296-2
117976	2a	Case only.....	C-8296-2
	3	Top Plate and Contact Combination complete (Orders must specify Contact Combination Desired).....	C-8297-2
177854	3a	Top Plate complete with Contact Bar Brackets, Straps and Insulation.....	C-8297-1
131408	3b	Top Plate only for 3 and 3a.....	C-8296-4
	4	Field complete, (Orders must specify Voltage and Frequency, also Piece Number of the Relay with which Field is to be used).....	C-8296-3
	5	Transformer complete, (Orders must specify Voltage and Frequency, also Piece Number of the Relay with which Transformer is to be used).....	C-8605-11
117955	6	Vane, complete.....	10985-37
29354	7	Screw complete with Lock Nut 7a.....	8098-500
32498	7a	Lock Nut for 7.....	8109-223
54921	8	Rivet for 6, 21 and 33.....	10301-1
62223	9	Pin.....	8097-897
	10	Machine Screw No. 10-30x $\frac{1}{2}$ " Fil. Hd. Br. with Hex. Nut 10a.	
26545	10a	Hex. Nut for 10.....	8109-181
	11	Machine Screw No. 10-30x $\frac{1}{2}$ " Fil. Hd. S. (Cad. Pl.).	
91076	12	Door.....	C-8107-7
118314	13	Door.....	C-8107-7
91075	14	Door.....	C-8107-7

UNION SWITCH & SIGNAL CO.

STYLE TV-30 TWO-ELEMENT THREE-POSITION VANE TRACK
RELAY DETAILS

(Continued)

For Ordering References of Complete Relay Refer to Plate E-1071

Zachary C. Gillihan 2008

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

Piece	Ref.	Description	Drawing Reference
86392	15	Glass Shield.....	8163-255
86391	16	Glass Shield.....	8163-255
118315	17	Name Plate	8225-228
90947	18	Gasket.....	8078-1268
70823	19	Gasket.....	8078-1268
118264	20	Insulation.....	8750-914
118017	21	Insulation.....	8750-2089
116272	22	Wire Clip.....	8735-580
126857	23	Trunnion, complete with Hex. Lock Nut	12471-5
131440	24	Washer.....	7828-6
	25	Machine Screw, No. 6-40x1 $\frac{1}{4}$ " Rd. Hd. Br. (Nickel Plate) with two washers Ref. 25a.	
20686	25a	Washer only for 25.....	7828-108
	26	Machine Screw No. 6-40x1 $\frac{1}{4}$ " Rd. Hd. S. (Cad. Pl.)	
	27	Machine Screw No. 14-24x1 $\frac{1}{8}$ " Fil. Hd. Br. (Nickel Plate).	
	28	Machine Screw No. 10-30x $\frac{5}{8}$ " Fil. Hd. S. (Cad. Pl.)	
	29	Machine Screw No. 6-40x $\frac{3}{16}$ " Rd. Hd. Br. (Nickel Plate)	
34340	30	Ventilator.....	C-7459-6
117945	31	Pin.....	8114-539
117622	32	Stop Bracket.....	11893-159

UNION SWITCH & SIGNAL CO.

STYLE TV-30 TWO-ELEMENT THREE-POSITION VANE TRACK
RELAY DETAILS

(Continued)

For Ordering References of Complete Relay Refer to Plate E-1071

Zachary C. Gillihan 2008

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

Piece	Ref.	Description	Drawing Reference
117623	33	Stop Bracket.....	11893-159
117977	34	Shaft, complete for 6.....	C-8296-2
117955	35	Vane for 6.....	10985-36
117966	36	Washer for 6.....	7828-343
117949	37	Stop for 6.....	11893-166
117948	38	Collar for 6.....	8350-529
54928	39	Rivet for 38.....	10301-1
117299	40	Pin for 38.....	8097-999
117383	41	Link.....	8232-177
117925	42	Pin.....	8097-837
117786	43	Washer.....	7828-184
	44	Washer $\frac{3}{16}$ " Std. Plate (Cad. Pl.).	
96403	45	Trunnion, complete with Lock Nut.....	12471-5
133076	46	Contact Spring Support, (L. H. as shown in dot and dash lines).....	C-8296-1
	46a	Contact Spring Support (R. H. as shown in full lines) ..	C-8296-1
	47	Flexible Connector.....	10934-107
	48	Machine Screw No. 6-40x $\frac{1}{4}$ " Fil. Hd. Br. (Nickel Plated) with Washer 25a	
69827	49	Counterweight.....	9672-162
26942	50	Hex. Nut.....	8109-184
62135	51	Contact Spring Board for Independent Contacts.....	9968-397

UNION SWITCH & SIGNAL CO.

STYLE TV-30 TWO-ELEMENT THREE-POSITION VANE TRACK
RELAY DETAILS

(Continued)

For Ordering References of Complete Relay Refer to Plate E-1071

Zachary C. Gillihan 2008

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

Piece	Ref.	Description	Drawing Reference
22621	52	Ins. Bushing	8095-199
1515	53	Nut for 51 and 52	8109-23
74798	54	Lock Washer for 51	8486-155
19409	55	Lock Washer for 52	8486-68
110663	56	L. H. Contact Spring complete (Ind. Front)	8385-1882
88945	57	Contact Spring complete (Non-Ind. Front only)	8385-1659
110664	58	R. H. Contact Spring complete (Ind. Front)	8385-1882
88944	59	Contact Spring complete (Non-Ind. Front and Back)	8385-1659
112738	60	Contact Spring complete (Ind. Back)	8385-1882
29063	61	Lock Washer	8486-111
	62	Terminal Post complete with Nuts, Washers and Lock Nuts.	
130200	62a	Terminal Post only for 62	8094-1192
	63	Terminal Post complete with Nuts, Washers and Lock Washers	12451
130199	63a	Terminal Post only for 63	8094-1190
	64	Terminal Post with Nuts, Washers and Lock Washers (Includes 1-62a, 1-61, 1-69, 1-68, 1-70, 1-67, 1-64a, 2-66 and 2-65)	12451
112419	64a	Contact Holder complete with Graphite Contact for 64	8094-1192
29101	65	Nut	8109-194
29102	66	Washer	7828-287
29103	67	Nut	8109-194

UNION SWITCH & SIGNAL CO.

STYLE TV-30 TWO-ELEMENT THREE-POSITION VANE TRACK
RELAY DETAILS

(Continued)

For Ordering References of Complete Relay Refer to Plate E-1071

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

Piece	Ref.	Description	Drawing Reference
69705	68	Washer.....	7828-287
70539	69	Washer.....	8274-73
72948	70	Nut.....	8109-383
49144	71	Washer.....	7828-213
	72	Dummy Post, complete No. 14 $\frac{3}{4}$ " Fil. Hd. S. (Cad. Pl.) with 1 Washer 66, 1 Washer 69 and Nut 70..	12471
	73	Dummy Post, complete with Nut 67, Washer 68, and Washer 66.....	12471
121616	74	Lock Washer.....	8486-362
72667	75	Terminal Bracket, complete with Graphite Contact for Contact Spring 58.	
48144	76	Counterweight Support for 6.....	C-8101-2
132645	77	Contact Bar Bracket, for Top Plate.....	C-8814-24
	78	Machine Screw No. 14-24x1 $\frac{3}{8}$ " Fil. Hd. Br. (Nickel Plated).	
132644	79	Strap for Top Plate not shown.....	11893-263
130178	80	Insulation for Top Plate (Used under 79 not shown)..	8750-2152
131435	81	Sealing Cup.....	11893-257
36073	82	Washer (Used under 79 not shown).....	7828-161