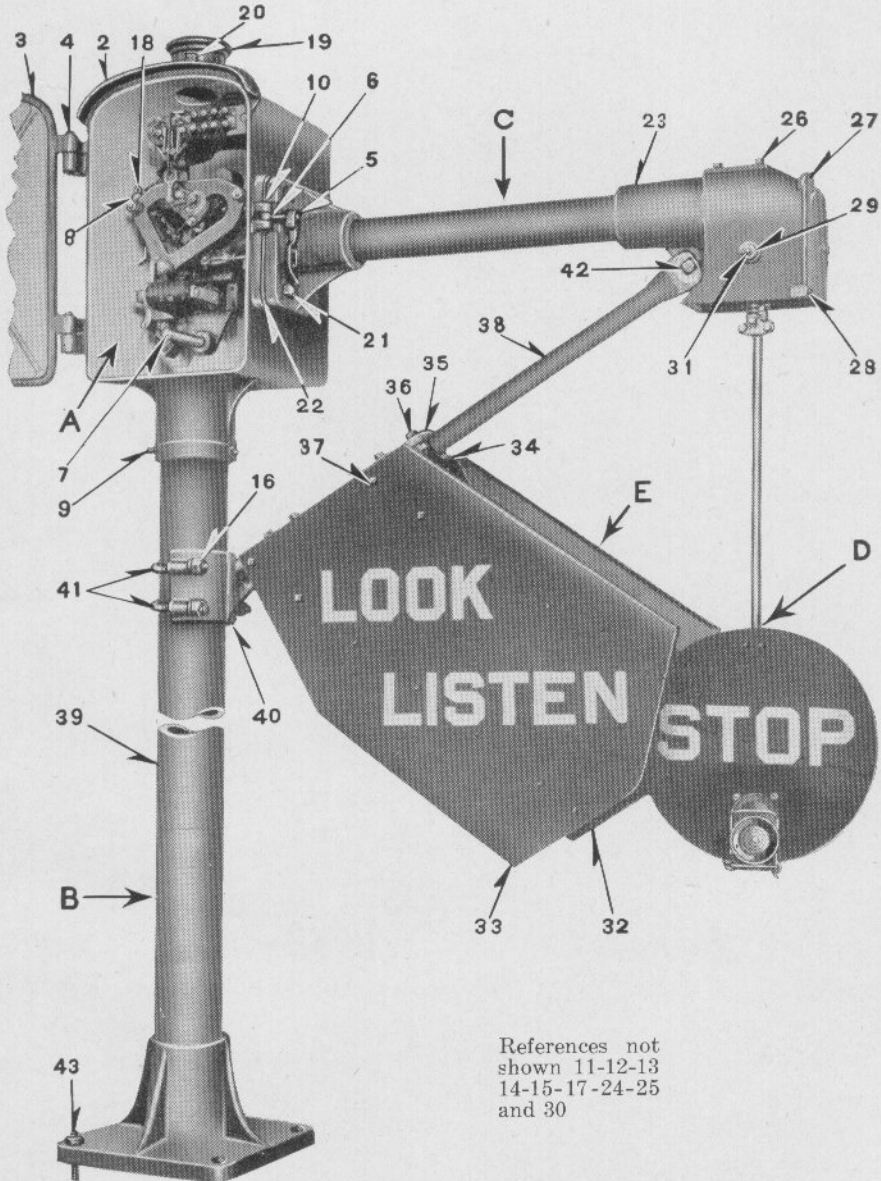


UNION SWITCH & SIGNAL CO.



MAIN ASSEMBLIES AND DETAILS STYLE "DW" AUTOMATIC FLAGMAN (D-C.)

UNION SWITCH & SIGNAL CO.

MAIN ASSEMBLIES AND DETAILS STYLE "DW" AUTOMATIC
FLAGMAN (D-C.)

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

Piece	Ref.	Description	Drawing Reference
73881	A	Mechanism Case, Ref. 2 with D.C. Mechanism having 1000-Ohm Slot and 5-Ohm operating magnets Ref. A, Plate K-9 and Pinnacle Ref. 19 for 10-Volt operation.....	C-8284-1
128974	Aa	Mechanism Case, Ref. 2 with D.C. Mechanism having 1000-Ohm Slot and 5-Ohm operating magnets, Ref. Ab, Plate K-9, Pinnacle Ref. 19 and Flasher Circuit Controller Ref. A, Plate K-51 for 10-Volt operation.....	C-8284-1
115462	Ab	Mechanism Case, Ref. 2a with D.C. Mechanism having 1000-Ohm Slot and 5-Ohm operating magnets Ref. A, Plate K-9, for 10-Volt operation (Case arranged for Crossing Bell with 4" Pipe Socket) ..	C-8284-1
113622	Ac	Mechanism Case, Ref. 2a with D.C. Mechanism having 670-Ohm Slot and 5-Ohm operating magnets Ref. Ac, Plate K-9 for 8-Volt operation (Case arranged for Crossing Bell with 4" Pipe Socket) ...	C-8284-1
114253	Ad	Mechanism Case, Ref. 2a with D.C. Mechanism having 670-Ohm Slot and 5-Ohm operating magnets Ref. Ac, Plate K-9 for 8-Volt operation (Case arranged for Crossing Bell with 3½" Pipe Socket) .	C-8284-1
116138	Ae	Mechanism Case, Ref. 2 with D.C. Mechanism having 670-Ohm Slot and 5-Ohm operating magnets Ref. Ac, Plate K-9 and Pinnacle Ref. 19 for 8-Volt operation.....	C-8284-1
75598	B	5" Pipe Post, 14' 0¾" long, used with Relay Box Ref. C, Plate K-1 for Signal 15' 0" between center of Banner Arm and Base (includes Ref. 16, 39, 40 and 41).....	B-9893-42
78910	Ba	5" Pipe Post, 17' 5¾" long, used with Relay Box Ref. C, Plate K-1 for Signal 18' 5" between center of Banner Arm and Base (includes Refs. 16, 39a, 40 and 41).....	B-9893-42

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Order by Plate, Piece, Reference and Abbreviated Description Given in
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Piece	Ref.	Description	Drawing Reference
78911	Bb	5" Pipe Post, 16' 7 ³ / ₄ " long, used with Relay Box Ref. C, Plate K-1 for Signal 17' 7" between center of Banner Arm and Base (includes Refs. 16, 39b, 40 and 41).....	B-9893-42
78912	Bc	5" Pipe Post, 15' 10 ³ / ₄ " long, used with Relay Box Ref. C, Plate K-1 for Signal 16'-10" between center of Banner Arm and Base (includes Refs. 16, 39c, 40 and 41).....	B-9893-42
116740	Bd	5" Pipe Post, 18' 1 ¹ / ₂ " long, used with Relay Box Ref. C, Plate K-1 for Signal 19' 0" between center of Banner Arm and Base (includes Refs. 16, 39d, 40 and 41).....	B-9893-42
94290	Be	5" Pipe Post, 14' 0 ³ / ₄ " long, except no hole for Relay Box wiring for Signal 15' 0" between center of Banner Arm and Base (includes Refs. 16, 39, 40 and 41).....	B-9893-42
114433	Bf	5" Pipe Post, 19' 0 ³ / ₄ " long, except no hole is provided for Relay Box wiring for Signal 20' 0" between center of Banner Arm and Base (includes Refs. 16, 39e, 40 and 41).....	B-9893-42
75599	C	Banner Arm, (includes Refs. 23 to 31).....	C-8884-4
123199	D	Banner (Detailed on Plate K-17) lettered "STOP".	C-8884-21
123200	Da	Banner, (Detailed on Plate K-17) lettered "STOP" and "ARRETEZ".....	C-8884-21
123201	Db	Banner, (Detailed on Plate K-17) lettered "STOP" with ³ / ₄ " Black Rim around outer edge on both sides.....	C-8884-21
128940	Dc	Banner, (Detailed on Plate K-17) with 1" Black Rim around outer edge with Black Cross in Center, balance of background white.....	C-8884-21

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Order by Plate, Piece, Reference and Abbreviated Description Given in
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Piece	Ref.	Description	Drawing Reference
80856	E	Banner Mask, (includes Refs. 32 to 37b) lettered "LOOK-LISTEN" as shown.....	C-8884-10
112974	Ea	Banner Mask, (includes Refs. 32 to 37b) lettered "LOOK-LISTEN-REGARDEZ-ECOUTEZ"....	C-8884-15
73914	2	Mechanism Case, (without Mechanism) as shown (includes Refs. 2c to 18) Arranged to suit Crossing Bell with 3" Pipe Socket.....	C-8284-1
113621	2a	Mechanism Case, (without Mechanism) arranged to suit Crossing Bell with 4" Pipe Socket (includes Refs. 2c to 18).....	C-8284-1
114825	2b	Mechanism Case, (without Mechanism) arranged to suit Crossing Bell with 3½" Pipe Socket.....	C-8284-1
73870	2c	Mechanism Case, main casting only, for Ref. 2....	C-8884-1
113632	2d	Mechanism Case, main casting only, for Ref. 2a....	C-8884-1
123731	2e	Mechanism Case, main casting only, for Ref. 2b....	C-8884-1
73906	3	Cover, (includes packing).....	C-8884-1
	3a	Flax Packing, ¾"x¾"x6'-6½" long for Ref. 3.	
	4	Rivet, ½"x¾" Rd. Hd. I.	
68392	5	Hasp.....	9925-1
10389	6	Eye Bolt, 5/8"x27/8".....	8034-55
73907	7	Stud, 1"x8¼".....	8090-128
	8	Stud, 1"x3¾".....	8090-137
	9	Set Screw, ½"x1" Cupped Point.	

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Piece	Ref.	Description	Drawing Reference
18597	10	Pin, 1/2"x2 3/8"	B-10213-1
	11	Stud, 5/8"x2" (not shown) used in rear of case to support operating magnets	8071-163
66097	12	Spring Wire Clip (not shown) for supporting wires leading to Banner Arm	8735-492
66095	13	Insulation (not shown) for Ref. 12	8750-1958
66096	14	Insulation (not shown) for Ref. 12	8750-1958
	15	Tap Bolt 1/4"x1/2" Hex. Hd. for Ref. 12 (not shown).	
	16	Nut, 3/4" Hex. for fastening studs Refs. 7 and 8 to Case Ref. 2, also for "U" Bolt Ref. 41.	
	17	Lock Washer (not shown) for Ref. 16 when used on Refs. 7 and 8.	
	18	Cotter, 1/4"x1 1/2" for holding mechanism on studs Refs. 7 and 8.	
70957	19	Pinnacle, with set screw Ref. 20	B-8121-14
	20	Set Screw, 5/8"x3/4" Sq. Hd. Cup. Point for Ref. 19.	
	21	Tap Bolt, 3/4"x2" Hex. Hd. for fastening Ref. C to Ref. 2.	
98433	22	Gasket between Refs. C and 2	8078-1273
111704	23	Socket, Pipe and Banner Bearing (pressed together)	C-8884-2
70317	24	A.R.A. Terminal Block, (not shown) inside of bearing	9968-299
	25	Machine Screw No. 14-24x7/8" Fil. Hd. Br. (Not shown) for fastening Ref. 24 to Ref. 23.	

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Order by Plate, Piece, Reference and Abbreviated Description Given in
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Piece	Ref.	Description	Drawing Reference
	26	Tap Bolt, 1/2"x3/4" Hex. Hd.	
75628	27	Door	C-8884-7
	28	Machine Screw No. 14-24x5/8" Fil. Hd. S. (Cad. Pl.)	
78326	29	Pivot Screw	8378-330
78393	30	Pin, 3/8"x5 9/16" (not shown) supporting Banner "D" in Pivots Ref. 2a	8079-94
	31	Pipe Plug, 1/4" Galv.	
110309	32	Mask, R. H. with reinforcing straps and rivets for Ref. E	C-8884-10
110310	33	Mask, L. H. with reinforcing straps and rivets for Ref. E	C-8884-10
110311	34	Clamp for fastening Refs. 32 and 33 to mask brace Ref. 38 (includes Refs. 34a to 36b)	B-10246-7
80875	34a	Clamp only	B-10246-7
78358	35	Cap for Ref. 34	B-10246-5
	36	Bolt, 1/2"x2" Sq. Hd. for Ref. 34.	
	36a	Nut, 1/2" Hex.	
	36b	Lock Washer, 1/2".	
	37	Bolt, 3/8"x1 1/2" Sq. Hd. for fastening Refs. 32 and 33 to clamp Ref. 34.	
	37a	Lock Washer, 3/8".	
	37b	Nut, 3/8" Hex.	

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Piece	Ref.	Description	Drawing Reference
75603	38	Brace, 3' 9 ¹ / ₄ " for supporting Ref. E.....	C-8884-3
94305	39	Pipe Post, 14' 0 ³ / ₄ " Long, with socket (undrilled) for Refs. B and Ba.....	B-12440-6
94306	39a	Pipe Post, 17' 5 ³ / ₄ " Long, with socket (undrilled) for Ref. Ba.....	B-12440-6
94307	39b	Pipe Post, 16' 7 ³ / ₄ " Long, with socket (undrilled) for Ref. Bb.....	B-12440-6
94308	39c	Pipe Post, 15' 10 ³ / ₄ " Long, with socket (undrilled) for Ref. Be.....	B-12440-6
112928	39d	Pipe Post, 18' 1 ¹ / ₂ " Long, with socket (undrilled) for Ref. Bd.....	B-12440-12
94304	39e	Pipe Post, 19' 0 ³ / ₄ " Long, with socket (undrilled) for Ref. Bf.....	B-12440-6
75625	40	Clamp for Ref. 39 for supporting Ref. 38.....	B-8707-12
43128	41	"U" Bolt, 3/4" with two 3/4" Hex. Nuts for attaching Ref. 40 to 5" Pipe.....	8782-63
	42	Bolt, 5/8" x 1 3/4" Hex. Hd. with 5/8" Hex. Nut and Std. 5/8" Lock Washer for fastening brace to pole and Banner Arm.	
10276	43	Foundation Bolt, 1" x 3' 0" with Hex. Nut and Std. 1" Plate Washer.....	7913-54