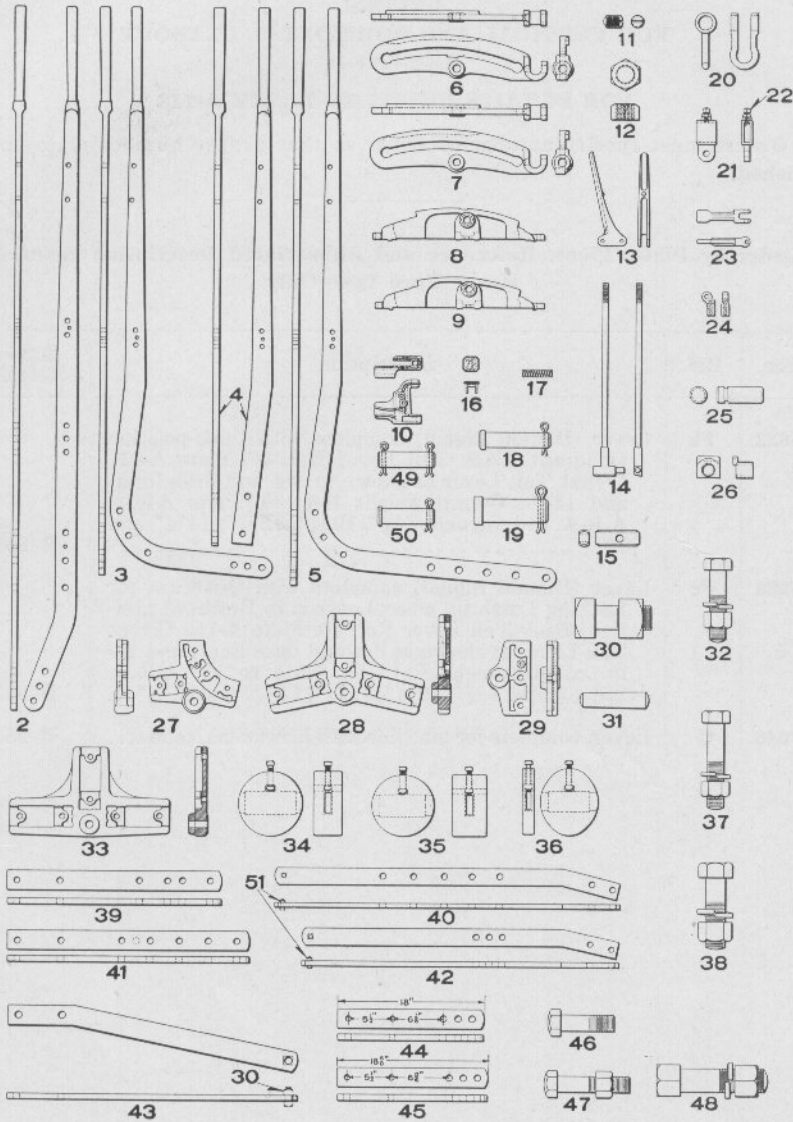


UNION SWITCH & SIGNAL COMPANY



DETAILS OF LEVERS FOR S. & F. MACHINE

Zachary C. Gillihan 2008

UNION SWITCH & SIGNAL COMPANY

THE SAXBY AND FARMER INTERLOCKING MACHINE
DETAIL PARTS

LEVER DETAILS

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

Drawing references are shown for convenience in checking material with
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Piece	Ref.	Description	Drawing Reference
6922	2	Lever only, used on machine with horizontal leadout	B-8290-5
4805	3	Lever only, for Switch, Lock or Home Signal, Strokes 8 $\frac{3}{4}$ " , 9 $\frac{3}{4}$ " and 10 $\frac{3}{4}$ "	B-8290-1
6923	4	Lever only, for Switch, Lock or Home Signal, Strokes 8 $\frac{3}{4}$ " , 9 $\frac{3}{4}$ " and 10 $\frac{3}{4}$ "	B-8290-5
4806	5	Lever only, for Distant Signal, Strokes 8 $\frac{3}{4}$ " , 10 $\frac{3}{4}$ " 12 $\frac{3}{4}$ " , 14 $\frac{3}{4}$ " and 16 $\frac{3}{4}$ "	B-8290-1
11596	6	Rocker Link, used with Quadrant Ref. 8	B-5241-3
	6a	Rocker Link, with Pin (Inc. 1-6 and 1-15)	B-9871-1
4804	7	Rocker Link, used with Quadrant Ref. 9	B-5241-1
	7a	Rocker Link, with Pin (Inc. 1-7 and 1-15)	B-9871-1
33869	8	Quadrant, (Three-Position)	B-9376-5
	8a	Quadrant, with Set Screw and Pin (Inc. 1-8, 1-11 and 1-25)	B-9376-5
	8b	Quadrant, with Set Screw, Pin and Bolts (Inc. 1-8, 1-11, 1-25 and 1-32 and 1-37)	B-9376-5
80011	8c	Quadrant, with Bolts, Rocker Link, Swivel Pin, Link Block and Universal Link (Inc. 1-8, 1-6, 1-32, 2-37, 1-15, 1-23 and 1-26)	B-9871-1
4807	9	Quadrant, (Two-position)	B-9376-1
	9a	Quadrant, with Pin and Bolt (Inc. 1-9, 1-25 and 1-51)	B-9376-1
	9b	Quadrant with Screw, Pin and Bolts (Inc. 1-9, 1-11, 1-25, 1-32 and 1-37)	B-9376-1

Zachary C. Gillihan 2008

PLATE A-113

UNION SWITCH & SIGNAL COMPANY

THE SAXBY AND FARMER INTERLOCKING MACHINE DETAIL PARTS

LEVER DETAILS

(Continued)

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Piece	Ref.	Description	Drawing Reference
69917	9c	Quadrant, with Bolts, Rocker Link, Swivel Pin, Link Block and Universal Link (Inc. 1-9, 2-37, 1-32, 1-7, 1-23, 1-15 and 1-26).....	B-9871-1
2851	10	Latch Shoe, M. I. Pat. No. 5725-A.....	8264-8
	10a	Latch Shoe, with Handle, Pin, and Bolts (Inc. 1-10, 1-13, 1-31, 1-46 and 1-47).....	8264-8
60150	11	Set Screw, for fastening rocker link pin to quadrant.	8190-289
1471	12	Latch Nut.....	8265-10
415	13	Latch Handle, M. I. Pat. No. 6401.....	B-8260-1
	13a	Latch Handle, with Pin, (Inc. 1-13 and 1-50).....	B-8260-1
2404	14	Latch Rod.....	B-8151-1
4800	15	Swivel Pin, $\frac{11}{16}$ "x $2\frac{5}{8}$ " used with Ref. 23.....	B-8066-8
	16	Lever Number (When ordering specify number re- quired) (For one or two numerals).....	8286-1
	16a	Lever Number with Pin (Inc. 1-16 and 1-50).....	8286-1
112147	16b	Lever Number (When ordering specify number re- quired) (For three numerals).....	8286-14
	16c	Lever Number with Pin (Inc. 1-16b and 1-50).....	8286-14
29405	17	Coil Spring, for machine under 44 levers.....	7770-7
29403	17a	Coil Spring, for machine over 44 levers.....	7770-5
196	18	Pin, $\frac{1}{2}$ "x $2\frac{1}{16}$ " with $\frac{1}{8}$ "x $\frac{3}{4}$ " Cotter, for fastening Universal link and swivel pin to rocker link.....	B-10214-1
22589	19	Pin, $\frac{7}{8}$ "x $2\frac{1}{4}$ ", with $\frac{3}{16}$ "x $1\frac{1}{2}$ " Cotter, for Shackle...	B-10338-1

UNION SWITCH & SIGNAL COMPANY

THE SAXBY AND FARMER INTERLOCKING MACHINE
DETAIL PARTS

LEVER DETAILS

(Continued)

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Piece	Ref.	Description	Drawing Reference
61785	20	Shackle, $\frac{7}{8}$ " M. I. Pat. 5552.....	7735-9
	20a	Shackle, $\frac{7}{8}$ ", with Pin (Inc. 1-20 and 1-19).....	7735-9
69891	21	Adjustable Connector, with Set Screw M. I. Pat. No. 8178 (Inc. 1-22).....	C-6551-1A
	22	Set Screw, $\frac{5}{8}$ "x $1\frac{1}{2}$ " Cupped point, and thin hex. nut for adjustable connector.	
32189	23	Universal Link, $5\frac{3}{4}$ " center to center, flat end undrilled.....	C-6551-1A
	23a	Universal Link, with Pin (Inc. 1-23 and 1-18).....	C-6551-1A
32190	23b	Universal Link, $6\frac{1}{4}$ " center to center, flat end undrilled, for attaching improved Locking to old Style S. & F. machine.....	C-6551-1A
	23c	Universal Link, with Pin (Inc. 1-23b and 1-18).....	C-6551-1A
4798	24	Latch Nut.....	8150-1
4799	25	Pin, $\frac{7}{8}$ "x $2\frac{7}{8}$ ", for fastening rocker link to quadrant.	B-8066-3
4802	26	Link Block, for Rocker Link M. I. Pat. No. T-2289	C-6551-1A
2899	27	Lever Shoe.....	B-8296-1
	27a	Lever Shoe, with Pin and Bolts (Inc. 1-27, 1-31 and 3-38a).....	B-8296-1
6902	28	Lever Shoe.....	B-8296-3
	28a	Lever Shoe with Bolts (Inc. 1-28 and 3-48).....	B-8296-3
7854	29	Lever Shoe.....	B-8296-3

Zachary C. Gillihan 2008

UNION SWITCH & SIGNAL COMPANY

THE SAXBY AND FARMER INTERLOCKING MACHINE DETAIL PARTS

LEVER DETAILS

(Continued)

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Piece	Ref.	Description	Drawing Reference
	29a	Lever Shoe with Pin and Bolts (Inc. 1-29, 1-31 and 3-38).....	B-8296-3
	30	Bolt, $\frac{3}{4}$ "x $1\frac{3}{4}$ " Sq. Hd. with $\frac{3}{4}$ " Sq. Nut for back tail lever.	
	31	Taper Pin No. 8, 2" long, for holding latch shoe and lever shoe in place on lever.	
123704	32	Bolt, $\frac{1}{2}$ "x $2\frac{1}{4}$ " Hex. Hd. with $\frac{1}{2}$ " Hex. Nut, for fastening middle of quadrant to top plate.....	8280-121
58413	33	Lever Shoe.....	B-8296-6
	33a	Lever Shoe, with Bolts (Inc. 1-33 and 3-48).....	B-8296-6
29951	34	Counterweight 40-lbs., complete with bolt and nut..	B-8137-1
70681	35	Counterweight 56-lbs., complete with bolt and nut..	B-8137-5
75018	36	Counterweight 14-lbs., complete with bolt and nut..	B-8137-2
84356	37	Bolt $\frac{1}{2}$ "x $2\frac{3}{4}$ " Hex. Hd. with $\frac{1}{2}$ " Hex. Nut, for fastening end of quadrant to top plate.....	8280-121
	38	Bolt, $\frac{5}{8}$ "x $2\frac{1}{4}$ " Hex. Hd. with $\frac{5}{8}$ " Hex. Nut and $\frac{5}{8}$ " Lock Washer ($\frac{7}{32}$ "x $\frac{1}{8}$ ") for fastening lever to lever shoe.	
	38a	Bolt, $\frac{5}{8}$ "x $2\frac{1}{2}$ " Hex. Hd. with $\frac{5}{8}$ " Hex. Nut and $\frac{5}{8}$ " Lock Washer ($\frac{7}{32}$ "x $\frac{1}{8}$ ") for fastening lever and tail lever to lever shoe.....	
123939	39	Tail Lever, Stroke $10\frac{1}{2}$ " , $12\frac{1}{2}$ " , $13\frac{1}{2}$ " and $15\frac{1}{2}$ "...	B-8142-10
	39a	Tail Lever, with Bolts (Inc. 1-39 and 2-48).....	B-8142-10
6416	40	Tail Lever, Stroke $8\frac{3}{4}$ " , $10\frac{3}{4}$ " , $12\frac{3}{4}$ " , $14\frac{3}{4}$ " and $16\frac{3}{4}$ "	B-8142-4

UNION SWITCH & SIGNAL COMPANY

THE SAXBY AND FARMER INTERLOCKING MACHINE
 DETAIL PARTS
 LEVER DETAILS

(Continued)

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Piece	Ref.	Description	Drawing Reference
	40a	Tail Lever, with Bolts (Inc. 1-40, 2-38a and 1-51)...	B-8142-4
1455	41	Tail Lever, Strokes $8\frac{3}{4}$ " , $10\frac{3}{4}$ " , $12\frac{3}{4}$ " , $14\frac{3}{4}$ " and $16\frac{3}{4}$ "	B-8142-2
	41a	Tail Lever, with Bolts (Inc. 1-41 and 2-38).....	B-8142-2
125565	41b	Tail Lever, Strokes $8\frac{3}{4}$ " , $9\frac{3}{4}$ " , $10\frac{3}{4}$ " , $12\frac{3}{4}$ " , $14\frac{3}{4}$ " and $16\frac{3}{4}$ "	B-8142-2
	41	Tail Lever, with Bolts (Inc. 1-41b and 2-38).....	B-8142-2
7492	42	Tail Lever, Strokes $8\frac{3}{4}$ " , $9\frac{3}{4}$ " and $10\frac{3}{4}$ "	B-8142-4
	42a	Tail Lever with Bolts (Inc. 1-42, 2-38 and 1-51).....	B-8142-4
51510	43	Tail Lever	B-8142-8
	43a	Tail Lever, with Bolts (Inc. 1-43, 1-30 and 2-48).....	B-8142-8
58414	44	Tail Lever, Strokes $8\frac{3}{4}$ " , $9\frac{3}{4}$ " and $10\frac{3}{4}$ "	B-8142-9
	44a	Tail Lever, with Bolts (Inc. 1-44 and 2-48).....	B-8142-9
1451	45	Tail Lever, Strokes $8\frac{3}{4}$ " , $9\frac{3}{4}$ " and $10\frac{3}{4}$ "	B-8142-1
	45a	Tail Lever, with Bolts (Inc. 1-45 and 2-38).....	B-8142-1
54083	46	Bolt, $\frac{1}{2}$ "x $1\frac{11}{16}$ " Hex. Hd, for fastening latch shoe to lever	8099-196
54084	47	Bolt, $\frac{1}{2}$ "x $2\frac{1}{4}$ " Hex. Head with $\frac{1}{2}$ " Hex. Nut, for attaching latch shoe to lever	8099-196
37043	48	Bolt, $\frac{3}{4}$ "x $2\frac{3}{4}$ " , with $\frac{3}{4}$ " Hex. Nut and $\frac{3}{4}$ " Lock Washer ($\frac{3}{16}$ "x $\frac{3}{16}$ ") for fastening lever and tail lever to lever shoe	8132-226

Zachary C. Gillihan 2008

PLATE A-113

UNION SWITCH & SIGNAL COMPANY

THE SAXBY AND FARMER INTERLOCKING MACHINE DETAIL PARTS

LEVER DETAILS

(Continued)

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Piece	Ref.	Description	Drawing Reference
6413	49	Pin, $\frac{1}{2}$ "x $1\frac{13}{16}$ " with two $\frac{1}{8}$ "x $\frac{3}{4}$ " cotters for fastening universal link to driver on end of locking shaft....	B-10215-1
195	50	Pin, $\frac{1}{2}$ "x $1\frac{11}{16}$ " with $\frac{1}{8}$ "x $\frac{3}{4}$ " cotter, for fastening Latch handle and number plate to lever.....	B-10214-1
	51	Bolt, $\frac{3}{8}$ "x1" Sq. Hd. and Hex. Nut, for back tail lev- er.....	