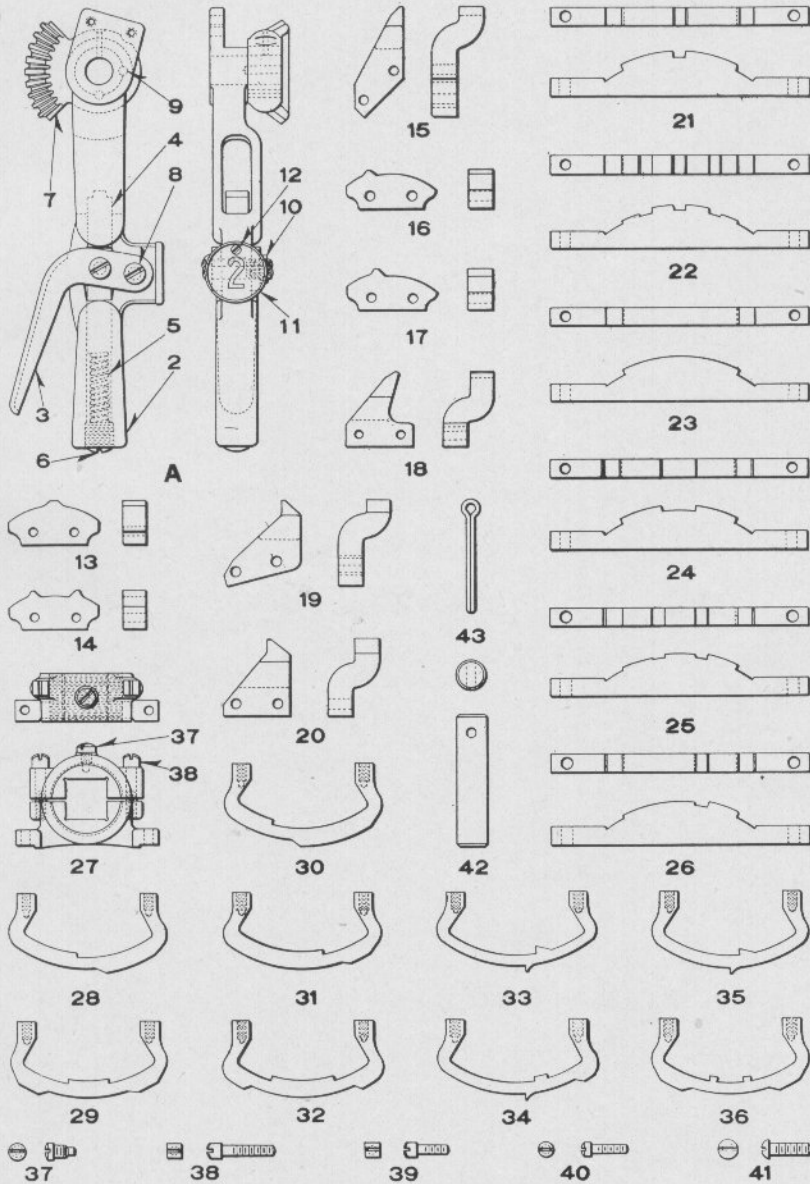


## UNION SWITCH & SIGNAL CO.



LEVERS, SEGMENTS AND QUADRANTS

## UNION SWITCH &amp; SIGNAL CO.

STYLE "S-8" ELECTRO-MECHANICAL INTERLOCKING  
MACHINE DETAIL PARTS

## LEVERS, SEGMENTS AND QUADRANTS

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

| Piece  | Ref. | Description                                                                                                                                                                                                       | Drawing<br>Reference |
|--------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| 70559  | A    | Signal, Switch or Lock Lever, complete as shown.<br>(When required for use with push button circuit<br>controller, order Cam Ref. 13 to 20 and Screws Ref.<br>40 separately). Specify lever number required . . . | C-8156-14            |
| 53753  | 2    | Lever only . . . . .                                                                                                                                                                                              | C-8156-14            |
| 32720  | 3    | Latch Handle . . . . .                                                                                                                                                                                            | B-8260-4             |
| 32717  | 4    | Latch . . . . .                                                                                                                                                                                                   | C-7972-4             |
| 20180  | 5    | Spring . . . . .                                                                                                                                                                                                  | 7770-170             |
| 32721  | 6    | Screw . . . . .                                                                                                                                                                                                   | 8099-114             |
| 48916  | 7    | Gear . . . . .                                                                                                                                                                                                    | 8425-126             |
| 117725 | 8    | Screw complete with Nut Ref. 10 . . . . .                                                                                                                                                                         | 12471-16             |
| 32947  | 8a   | Screw only . . . . .                                                                                                                                                                                              | 8190-124             |
| 36690  | 9    | Pin . . . . .                                                                                                                                                                                                     | 8097-279             |
| 74081  | 10   | Nut . . . . .                                                                                                                                                                                                     | 8109-190             |
| 69125  | 11   | Number Plate, complete. (Specify number required) . .                                                                                                                                                             | 8286-41              |
|        | 12   | Machine Screw No. 4-48x1/4" Flat Hd. Br. for attach-<br>ing number plate to lever.                                                                                                                                |                      |
| 110487 | 13   | Cam for releasing Push Button after lever passes indi-<br>cating position when returning from either front or<br>back position to normal center position . . . . .                                                | 12495-1              |
| 48588  | 14   | Cam for releasing Push Button at 18° on either side of<br>center position when lever is returning from either<br>front or back position to normal center position . . . .                                         | 12495-2              |
| 54296  | 15   | Cam for releasing Push Button (about 6° from normal<br>(Back position) when lever is returning to normal) . .                                                                                                     | 12495-3              |

## UNION SWITCH & SIGNAL CO.

### STYLE "S-8" ELECTRO-MECHANICAL INTERLOCKING MACHINE DETAIL PARTS (Continued)

#### LEVERS, SEGMENTS AND QUADRANTS

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

| Piece  | Ref. | Description                                                                                                                                                                                                                                                                                    | Drawing Reference |
|--------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| 60254  | 16   | Cam for releasing Push Button (about 18° from normal) when lever is returning to normal (center) position from front position; with cam as shown, by reversing cam push button is released (about 18° from normal) when lever is returning to normal (center) position from back position..... | 12495-4           |
| 112193 | 17   | Cam for releasing push button (about 13° from normal) when lever is returning to normal (center) position from front position; with cam as shown by reversing cam push button is released (about 13° from normal) when lever is returning to normal (center) position from back position.....  | 12495-5           |
| 76715  | 18   | Cam for releasing push button (about 6° from normal (center) when lever is returning from front position to normal position.....                                                                                                                                                               | 12495-6           |
| 75827  | 19   | Cam for releasing push button (about 6° from normal (center) when lever is returning from back position to normal position.....                                                                                                                                                                | 12495-7           |
| 84594  | 20   | Cam for releasing push button circuit controller about 10° past center or indicating position going from reverse to normal position (front).....                                                                                                                                               | 12495-8           |
| 32966  | 21   | Quadrant for Lock Lever.....                                                                                                                                                                                                                                                                   | 8349-46           |
| 32967  | 22   | Quadrant for Signal Lever.....                                                                                                                                                                                                                                                                 | 8349-47           |
| 36467  | 23   | Quadrant for Lock or Detector Lever.....                                                                                                                                                                                                                                                       | 8349-49           |
| 48477  | 24   | Quadrant for Switch Lever.....                                                                                                                                                                                                                                                                 | 8349-54           |
| 58890  | 25   | Quadrant for 3-Position Signal Lever.....                                                                                                                                                                                                                                                      | 8349-63           |
| 58892  | 26   | Quadrant for 2-Position Signal Lever when used on Machine equipped with 3-Position Levers.....                                                                                                                                                                                                 | 8349-64           |

## UNION SWITCH &amp; SIGNAL CO.

STYLE "S-8" ELECTRO-MECHANICAL INTERLOCKING  
MACHINE DETAIL PARTS  
(Continued)

## LEVERS, SEGMENTS AND QUADRANTS

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

| Piece  | Ref. | Description                                                                                                                                                   | Drawing Reference |
|--------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| 70267  | 27   | Clamp with Bushing and Screws, complete as shown.                                                                                                             | C-8156-15         |
|        | 27a  | Clamp Ref. 27 with Segment Ref. . . . ., complete.<br>(Specify which segment is required referring to Refs.<br>28 to 36) . . . . .                            | C-8156-23         |
| 120213 | 28   | Latch Depressor Segment for Signal Lever. (Used<br>with Quadrant Ref. 23) . . . . .                                                                           | 8316-144          |
| 116937 | 29   | Latch Depressor Segment for Signal Lever. (Used<br>with Quadrant Ref. 23) . . . . .                                                                           | 8316-137          |
| 125713 | 30   | Latch Depressor Segment for 3-Position signal lever.<br>(Used with Quadrants Refs. 25 and 26) . . . . .                                                       | 8316-150          |
| 121577 | 31   | Latch Depressor Segment for signal lever. (Used<br>with Quadrant Ref. 23) . . . . .                                                                           | 8316-146          |
| 65515  | 32   | Latch Depressor Segment for Separate Detector Lock.<br>(Used with Quadrants Refs. 21 and 24) . . . . .                                                        | 8316-99           |
| 126431 | 33   | Indication Segment for Switch Lever without Electric<br>Detector Circuits or when separate detector magnet<br>is used. (Used with Quadrant Ref. 24) . . . . . | 8316-152          |
| 134543 | 34   | Latch Depressor Segment for Switch Lever with elec-<br>tric detector circuits but without separate detector<br>magnet. (Used with Quadrant Ref. 24) . . . . . | 8316-166          |
| 49211  | 35   | Segment for Switch Indicating Lever when separate<br>detector magnet is used. (Or for Detector Lever).<br>(Used with Quadrant Ref. 21) . . . . .              | 8316-50           |
| 112479 | 36   | Latch Depressor Segment for Separate Detector Mag-<br>net on switch indicating lever. (Used with Quad-<br>rant Ref. 21) . . . . .                             | 8316-129          |
| 38740  | 37   | Pivot Screw for Clamp Ref. 27 . . . . .                                                                                                                       | 8098-740          |

PLATE A-1020

UNION SWITCH & SIGNAL CO.

STYLE "S-8" ELECTRO-MECHANICAL INTERLOCKING  
MACHINE DETAIL PARTS  
(Continued)

LEVERS, SEGMENTS AND QUADRANTS

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

| Piece | Ref. | Description                                                                                                             | Drawing<br>Reference |
|-------|------|-------------------------------------------------------------------------------------------------------------------------|----------------------|
| 48940 | 38   | Screw for Clamp Ref. 27 .....                                                                                           | 8098-879             |
| 39106 | 39   | Screw for Attaching Segment to Clamp Ref. 27 .....                                                                      | 8098-741             |
|       | 40   | Machine Screw No. 12-28x $\frac{7}{8}$ " Fil. Hd. S. for attaching Quadrants to support.                                |                      |
|       | 41   | Screw No. 10-30x $\frac{3}{4}$ " Rd. Hd. S. for Attaching Cams Refs. 13 to 20 to Lever Ref. A.                          |                      |
| 54016 | 42   | Pin, $\frac{5}{8}$ "x $2\frac{3}{4}$ " with one $\frac{3}{16}$ "x2" Cotter Ref. 43 for attaching lever to support ..... | 8057-186             |
|       | 43   | Cotter, $\frac{3}{16}$ "x2" for Ref. 42.                                                                                |                      |