

PARTS  
OF  
WESTINGHOUSE  
AUTOMATIC CIRCUIT-BREAKER.  
TRAMWAY TYPE.

Style Nos.  
5401, 5402, 5403 & 5404.



Part Catalogue B. 6009.

The Prices herein supersede previous quotations, and are subject to change without notice.

Prices are F.O.R. Manchester.

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**Parts**  
— OF —  
**Westinghouse**  
**Automatic Circuit-Breaker.**  
**Tramway Type.**

(Style Numbers—5401, 5402, 5403, and 5404.)

THE BRITISH  
WESTINGHOUSE ELECTRIC & MANUFACTURING CO., Ltd.  
LONDON AND MANCHESTER.

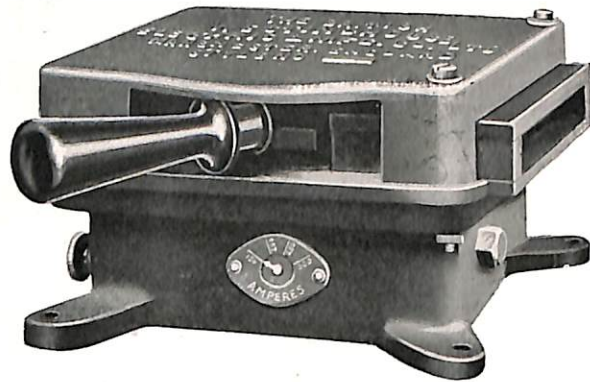
**AUTOMATIC CIRCUIT-BREAKER.****Tramway Type.**

FIG. 1.—CIRCUIT-BREAKER COMPLETE

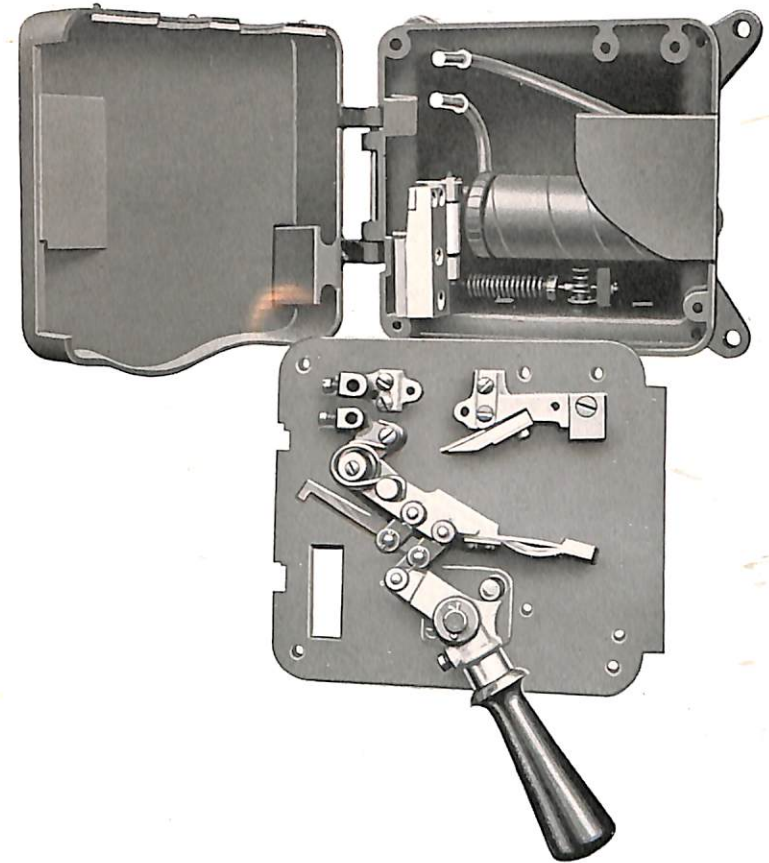
**AUTOMATIC CIRCUIT-BREAKER.****Tramway Type.**

FIG. 2.—CIRCUIT-BREAKER WITH COVER OPEN AND SWITCH-BASE DETACHED.



### AUTOMATIC CIRCUIT-BREAKER.

#### Tramway Type.

Style Nos. 5401, 5402, 5403, and 5404.

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### PARTS OF AUTOMATIC CIRCUIT-BREAKER.

#### Tramway Type.

Style Nos. 5401, 5402, 5403, and 5404.

Style No.	No. per Breaker.	List Price.
		£ s. d.
3536	I. <b>Cover</b> .....	0 6 9
3551	I. Asbestos lining for cover.....	0 0 6
3552	I. Pressed asbestos side piece for cover.....	0 0 6
3553	I. Small asbestos sheet, 1 $\frac{1}{8}$ " x 2 $\frac{1}{4}$ ".....each	0 0 2
3501	3. Rivets for No. 3552, $\frac{1}{8}$ " x $\frac{3}{8}$ " .....per doz.	0 0 3
3502	I. Hinge pin for cover, $\frac{1}{4}$ " x 4".....	0 0 3
3503	2. Bolts for cover, $\frac{1}{4}$ " x 3" Rd. Hd. Stove...per doz.	0 1 3
3838	2. Nuts " " , $\frac{1}{4}$ " .....per doz.	0 0 3
289	I. <b>Vulcabeston Base Plate</b> .....	0 7 10
3301	2. Screws for securing No. 289, No. 14—24 x $\frac{3}{4}$ " .....per doz.	0 0 4
9097	I. <b>Arc Shield complete</b> .....	0 10 9
290	I. Arc shield cover.....	0 4 1
291	I. Arc shield side piece.....	0 3 0
292	I. Arc shield side piece.....	0 3 3
9098	3. Screws for arc shield, No. 14—24 x 2".....per doz.	0 0 10
9099	I. " " " " No. 14—24 x 1 $\frac{3}{4}$ ".....per doz.	0 0 8
280	I. <b>Handle with Ferrule</b> , screwed $\frac{3}{8}$ "—16...	0 2 0
3505	I. <b>Handle Lever</b> with screws.....	0 2 6
3507	I. Handle lever without screws.....	0 2 3
3506	I. Screw for No. 3507, No. 14—24 x $\frac{5}{8}$ ".....per doz.	0 0 4
3508	I. Pin for No. 3507, $\frac{1}{4}$ " x 1 $\frac{1}{16}$ ".....per doz.	0 1 4
3497	I. Split pin for Nos. 3507 and 3508, $\frac{1}{16}$ " x $\frac{5}{8}$ " .....per doz.	0 0 3
72	I. Washer for No. 3507 .....per doz.	0 0 3
3523	I. <b>Handle Lever Fulcrum Plate</b> com- plete with pins.....	0 1 0
3522	I. Backing plate for No. 3523.....	0 0 6
3546	3. Screws for Nos. 3522 and 3523, No. 14—24 x $\frac{5}{8}$ " flat head .....per doz.	0 0 4
3524	I. Pin for fulcrum plate, $\frac{1}{2}$ " x 1 $\frac{3}{8}$ " .....per doz.	0 1 3
3525	I. Pin for fulcrum plate, $\frac{1}{2}$ " x 2 $\frac{1}{16}$ ".....per doz.	0 1 6

Order by Style Number.

### AUTOMATIC CIRCUIT-BREAKER.

#### Tramway Type.

Style No.	No. per Breaker.	Description	Price.		
			£	s	d.
3530	1.	<b>Long Link</b> between handle and contact levers	0	0	3
3529	1.	<b>Short Link</b> .. .. .	0	0	3
3526	1.	<b>Trigger</b> complete with pins .....	0	1	0
3527	1.	Trigger without pins .....	0	1	0
3528	2.	Pin for trigger and links, $\frac{1}{4}$ " x $\frac{1}{32}$ ".....per doz.	0	0	6
3484	2.	Split pin for No. 3528, $\frac{1}{16}$ "— $\frac{3}{8}$ ".....per doz.	0	0	3
3509	1.	<b>Contact Lever</b> complete with arcing finger and pins.....	0	4	7
3510	1.	Contact lever without arcing finger and pins..	0	3	0
3508	2.	Pin for links, $\frac{1}{4}$ " x $1\frac{1}{16}$ " .....	0	1	0
3497	2.	Split pin for No. 3508, $\frac{1}{16}$ " x $\frac{5}{8}$ ".. ..	0	0	3
3511	2.	Washer for No. 3509 .....	0	0	6
3512	5.	Rivets for No. 3511, No. 42 x $\frac{3}{8}$ .....	0	0	3
3513	1.	Arcing tip, $\frac{3}{16}$ " x $\frac{3}{4}$ " x $\frac{9}{16}$ " .....	0	0	2
3519	1.	Phosphor bronze spring for No. 3513.....each	0	0	2
9232	1.	Arcing finger complete with tip, springs, and shunt.....	0	1	0
3515	1.	Washer for arcing finger, No. 14, $\frac{3}{8}$ " x $\frac{9}{16}$ ", copper .....	0	0	6
3621	2.	Screw for arcing finger, No. 14— $24 \times \frac{1}{2}$ ".....per doz.	0	0	4
3520	1.	Spring for No. 3509 .....	0	0	3
3541	1.	<b>Fulcrum for Contact Lever</b> with screws and pin .....	0	3	0
3537	1.	Fulcrum for contact lever without screws and pin.....	0	2	9
3540	1.	Pin for No. 3541, $\frac{5}{16}$ " x $1\frac{3}{16}$ " .....	0	1	0
3301	2.	Screws for No. 3541, No. 14— $24 \times \frac{3}{4}$ ".....per doz.	0	0	4
3621	1.	„ „ No. 3520, No. 14— $24 \times \frac{1}{2}$ ".....per doz.	0	0	4
31	2.	Washer for No. 3540 .....	0	0	3
3621	2.	Binding screws for No. 3540, No. 14— $24 \times \frac{1}{2}$ " .....	0	0	4

Order by Style Number.

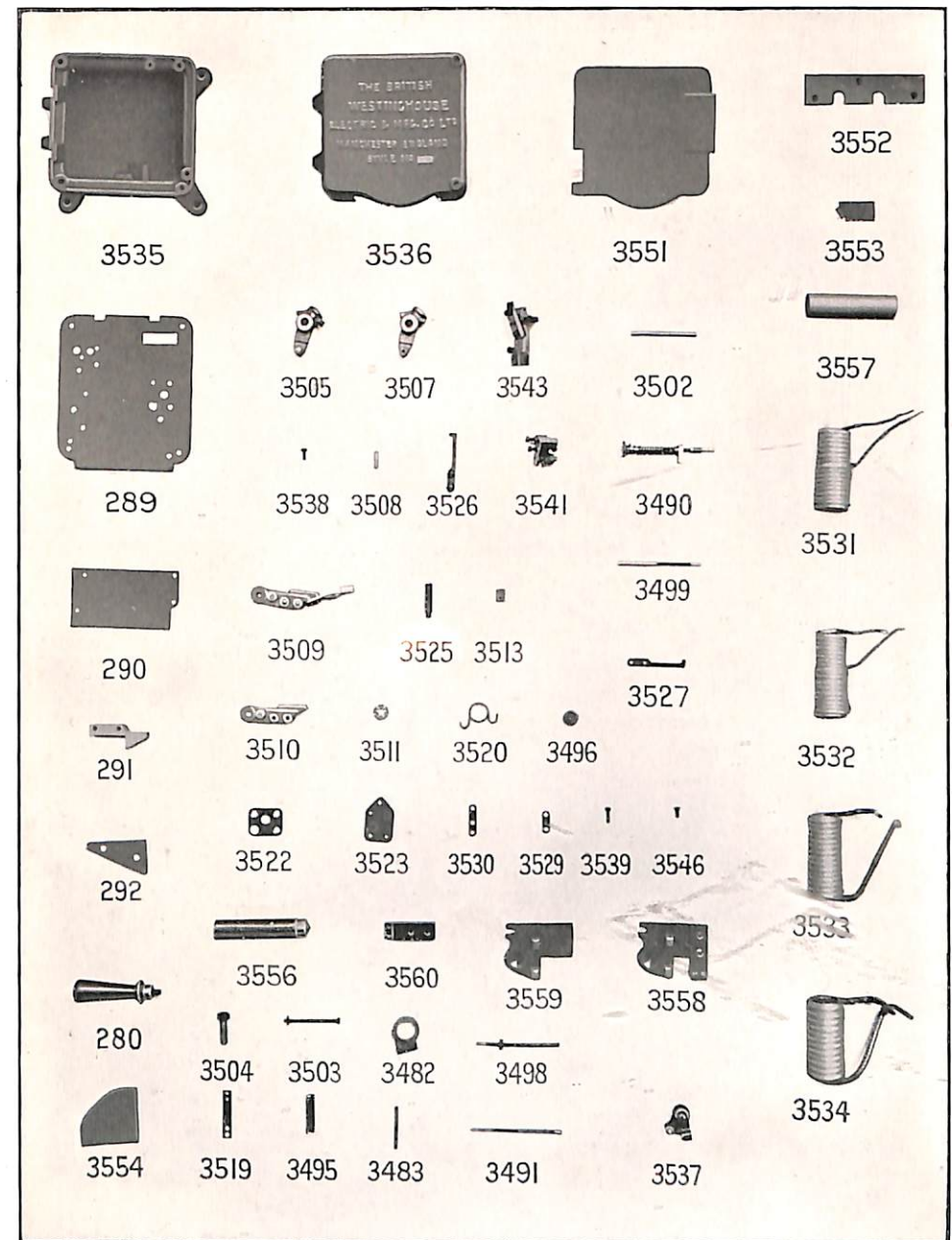


FIG. 3.



**AUTOMATIC CIRCUIT-BREAKER.**

**Tramway Type.**

Style No.	No. per Breaker.	Description	Price		
			£	s.	d.
3542	1.	<b>Terminal Block</b> with screws .....	0	2	3
9101	1.	Terminal block without screws .....	0	2	2
3301	2.	Screw for fastening No. 3542, No. 14—24 x $\frac{3}{4}$ " .....	0	0	4
		.....per doz.	0	0	4
3621	2.	Binding screw for inside terminal, No. 14—24 x $\frac{1}{2}$ " .....	0	0	4
		.....per doz.	0	0	4
3301	2.	Binding screw for outside terminal, No. 14—24 x $\frac{3}{4}$ " .....	0	0	4
		.....per doz.	0	0	4
31	2.	Washer for No. 3301, $\frac{3}{16}$ " .....	0	0	3
3543	1.	<b>Brush Terminal</b> complete with plate, brush, and screws.....	0	3	10
3544	1.	Brush terminal without arcing plate, &c.....	0	2	9
3545	1.	Arcing plate for No. 3544 .....	0	0	3
3506	1.	Screw for fastening No. 3545, No. 14—24 x $\frac{5}{8}$ " .....	0	0	4
		.....per doz.	0	0	4
3547	1.	Copper contact brush with spring.....	0	1	0
3548	1.	Clamp plate for contact brush, No. 14— $\frac{9}{16}$ " x $1\frac{1}{16}$ " .....	0	0	6
		.....per doz.	0	0	6
3549	1.	Copper contact brush without spring .....	0	0	10
3550	1.	Spring for No. 3547, $\frac{9}{16}$ " x $2\frac{1}{4}$ " phosphor bronze .....	0	0	3
3301	3.	Screw for fastening brush and terminal, No. 14—24 x $\frac{3}{4}$ " .....	0	0	4
		.....per doz.	0	0	4
3535	1.	<b>Box</b> .....	1	5	0
3554	1.	<b>Magnet Pole-piece</b> .....	0	1	0
3504	1.	Tap bolt for No. 3554, $\frac{1}{2}$ " x $1\frac{1}{2}$ ".....per doz.	0	1	3
72	1.	Washer for No. 3504, $\frac{1}{2}$ ".....per doz.	0	0	3
3556	1.	<b>Magnet Core</b> .....	0	2	6
3557	1.	Fullerboard and mica sleeve .....	0	1	0
3555	1.	Dowel pin for No. 3556, No. 12 x $1\frac{3}{16}$ ".....per doz.	0	0	4
3482	1.	Bracket for magnet armature.....	0	1	6
3301	1.	Screw for No. 3482, No. 14—24 x $\frac{3}{4}$ ".....per doz.	0	0	4
3483	1.	Pin for No. 3482, $\frac{1}{4}$ " x $2\frac{5}{8}$ ".....per doz.	0	0	3
3484	2.	Split pin for No. 3483, $\frac{1}{16}$ " x $\frac{3}{8}$ ".....per doz.	0	0	3
3534	1.	<b>Magnet Coil</b> , 200 amps. for automatic circuit-breaker, No. 5404.....	0	9	0
3533	1.	Magnet coil, 150 amps. for automatic circuit-breaker, No. 5403 .....	0	8	0

Order by Style Number

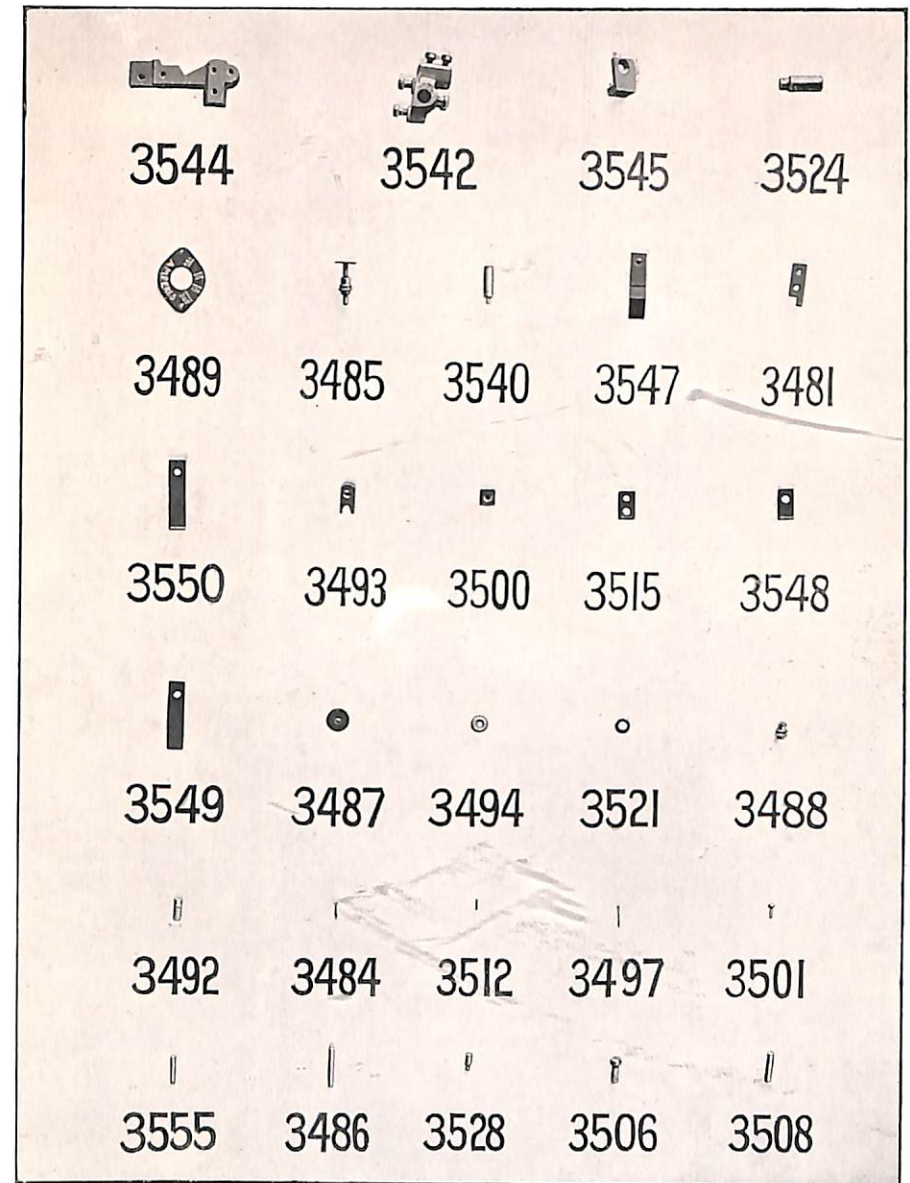


FIG. 4.

## AUTOMATIC CIRCUIT-BREAKER.

## Tramway Type.

Style No.	No. per Breaker.		Price.		
			£	s.	d.
3532	I.	Magnet coil, 80 amps. for automatic circuit-breaker, No. 5402 .....	0	8	0
3531	I.	Magnet coil, 50 amps. for automatic circuit-breaker, No. 5401 .....	0	7	0
3558	I.	<b>Magnet Armature</b> complete with fibre tip .....	0	3	0
3559	I.	Magnet armature.....	0	1	9
9100	I.	Fibre tip for armature, complete with trigger catch .....	0	1	0
3560	I.	Fibre tip without catch .....	0	0	9
3481	I.	Catch for armature tip .....	0	0	3
3621	2.	Screw for fastening catch, No. 14—24 x $\frac{1}{2}$ " .....	0	0	4
		.....per doz.	0	0	4
3301	2.	Screw for fastening tip, No. 14—24 x $\frac{3}{4}$ ".....per doz.	0	0	4
3498	I.	<b>Locking Shaft</b> with washer, nut, and split pin.....	0	0	9
3499	I.	Locking shaft without washer, nut, and split pin .....	0	0	6
27	I.	Washer for No. 3498, $\frac{3}{16}$ " .....	0	0	3
3484	I.	Split pin for No. 3498, $\frac{1}{16}$ x $\frac{3}{8}$ " .....	0	0	3
3500	I.	Square nut for No. 3498.....per doz.	0	0	8
3490	I.	<b>Worm Shaft</b> complete with washer, spring nut and worm .....	0	2	6
3491	I.	Worm shaft without washer and pin, No. 14 x $5\frac{9}{16}$ " .....	0	0	9
27	I.	Washer for No. 3490 .....	0	0	3
3484	I.	Split pin for No. 3490, $\frac{1}{16}$ x $\frac{3}{8}$ " .....	0	0	3
3496	I.	Knurled handle .....	0	0	6
3497	I.	Split pin for No. 3496, $\frac{1}{16}$ " x $\frac{5}{8}$ ".....per doz.	0	0	3
3493	I.	Special nut for No. 3490.....	0	0	6
3494	2.	Special brass washer for No. 3490 .....	0	0	6
3495	I.	Spring for No. 3490 .....	0	0	6
3492	I.	Worm for No. 3490 .....	0	0	6
3489	I.	<b>Indicator Plate</b> .....	0	0	9
3485	I.	Indicator pin and worm wheel complete .....	0	0	9
3486	I.	Pin for indicator plate .....	0	1	6
3487	I.	Indicator and pin.....per doz.	0	0	3
3488	I.	Worm wheel .....	0	0	6
3484	I.	Split pin for No. 3488, $\frac{1}{16}$ " x $\frac{3}{8}$ ".....per doz.	0	0	3

Order by Style Number.

PRINTING BUREAU.



MANCHESTER.



# The British Westinghouse Electric & Mfg. Co., Ltd.

This Company operates in the British Empire with the exception of Canada and also in Norway and Sweden.

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3501



