

PARTS
of
WESTINGHOUSE
TYPE T.1.C.
TRAMWAY CONTROLLERS
Style No. 15948

Parts
—OF—
Westinghouse
Type T1C
Tramway Controllers
Style No. 15948

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

Prices are F.O.R., Manchester.

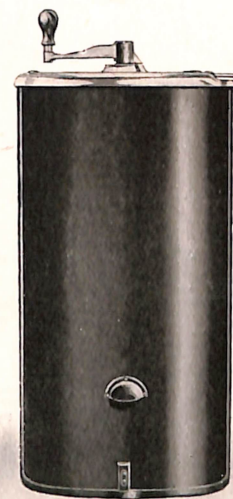
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IMPORTANT.

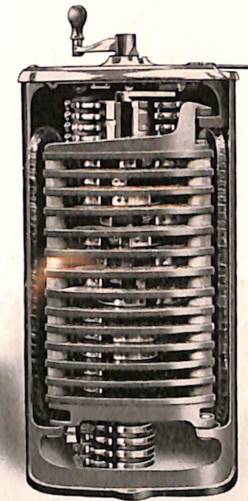
In giving the Style No. of any part ordered from this catalogue, always insert the words "Style No."

**The British Westinghouse
Electric & Manufacturing Co. Ltd.
London and Manchester**

TYPE T CONTROLLER



(Photo 5508).
With Cover On



(Photo 5509).
With Cover Removed

PRINTING BUREAU.

MANCHESTER.

PARTS OF TYPE T CONTROLLERS

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PARTS OF TYPE T CONTROLLER

Style No.	Parts per Controller.	Description.	Price £ s. d.
FRAME AND COVERS			
14532	1.	C.I. Frame with asbestos lining	4 2 6
12727	1.	Ground terminal bolt, $\frac{5}{16}$ " x $\frac{3}{4}$ " Whit. Std. Tap Bolt.....	gross 0 12 0
12728	2.	Flexible rubber lined canvas hose	each 0 2 0
12729	1.	Fibre clamping piece for cable hose, Left Hand	0 0 9
12730	1.	" " " " Right Hand.....	0 0 9
12731	10.	No. 2 B.A. x $\frac{5}{8}$ " Flat Head I.M.Sc. for bushes	per 100 0 5 0
12732	1.	C.B. Top Plate complete with mechanism-pivots, washers and cotter pins	3 1 0
12733	4.	Top cover fixing screws, $\frac{5}{16}$ " Whit. French Head Brass Screw.....	each 0 0 6
14533	1.	Front cover sheet iron, complete.....	1 5 6
2520	1.	Bracing angle with two bolts and washers	0 2 0
HANDLES AND WATERCAPS			
12735	1.	Main drum handle complete.....	1 1 6
12736	1.	" " lever C.B.	0 18 9
8739	1.	" " wood handle with ferrules	0 1 6
8735	1.	" " steel pin with washer	0 1 3
12737	1.	" " watercap including No. 2 B.A. Screw	0 3 9
12738	1.	C.B. Reverse drum handle socket and screw pin	0 4 6
12739	1.	M.I. Reverse drum handle	0 3 0
OPERATING MECHANISM			
12740	1.	C.I. Ratchet Wheel	0 5 9
12741	1.	Taper Pin and $\frac{1}{4}$ " Whit. Hex. I. Nut for Ratchet Wheel.....	0 2 0
12742	1.	Main drum pawl lever, complete with roller and pin	0 2 9
12743	1.	Pin for Main drum pawl	doz. 0 3 9
12744	1.	Roller " "	0 0 6
11847A	1.	Spring " "	doz. 0 6 0
12745	1.	Reverse drum ratchet, complete with pins	0 4 6
12746	1.	Reverse drum pawl	0 1 6
10856	1.	Spring for reverse drum pawl	doz. 0 4 6
BLOW-OUT COIL			
14534	2.	Insulated C.I. Core	each 0 14 0
12748	4.	Fixing screws for core $\frac{5}{16}$ " x $2\frac{1}{4}$ " Whit. Flat Head I.M.Sc.	doz. 0 1 6
14535	2.	Blow-out coil with terminals Elec. Spec. No. 3244.....	each 1 19 9
12750	4.	C.B. Terminals for blow-out coil, complete with screws and lock nuts.....	doz. 0 7 6
12751	4.	Screw for blow-out coil terminal, No. 2 B.A. x $\frac{1}{2}$ " Cheese Head I.M.Sc.	per 100 0 4 6
12752	4.	Lock nut for terminal screw No. 2 B.A. I.M.Sc.	per 100 0 3 0

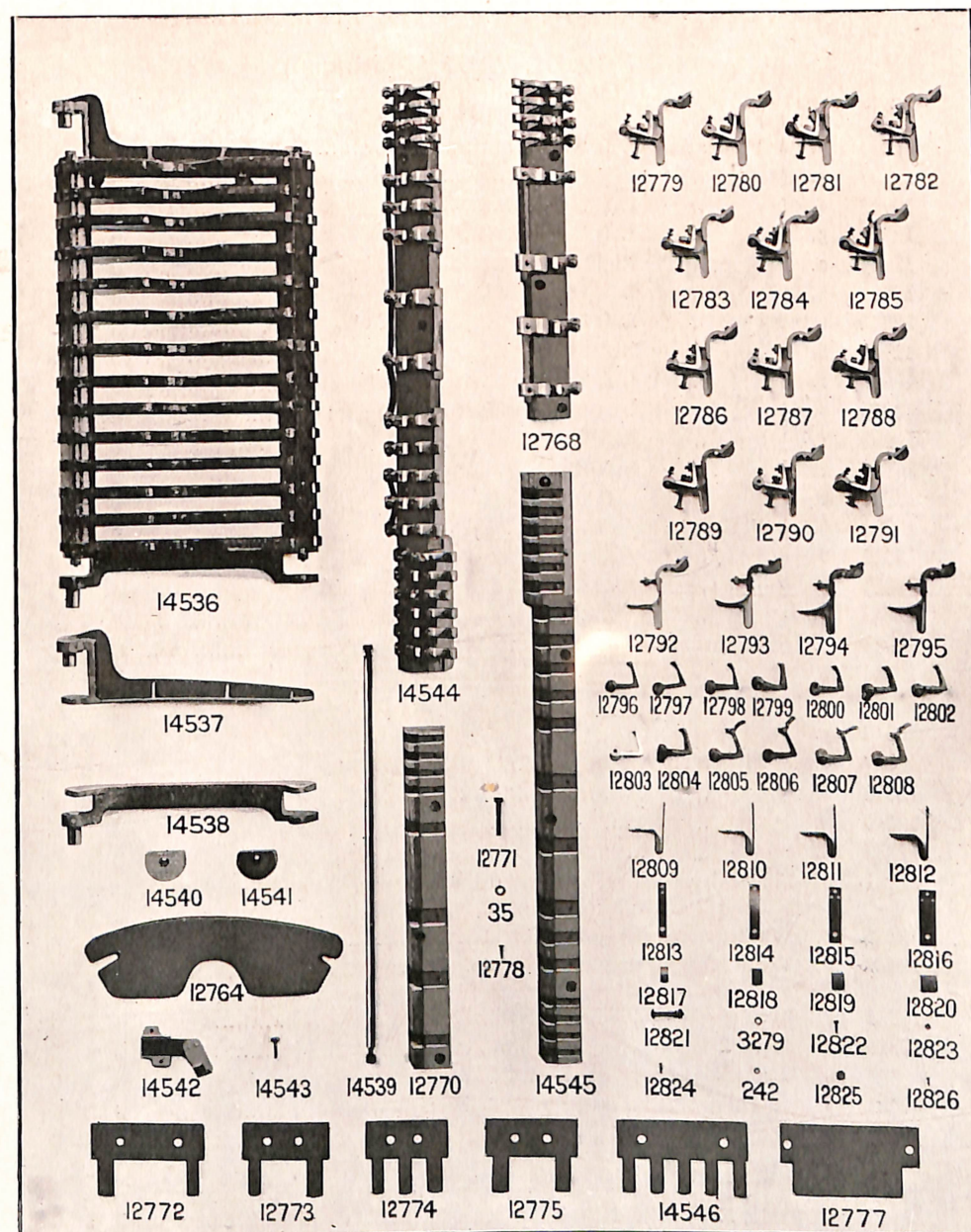
Order by Style Number.



PARTS OF TYPE T CONTROLLER

Style No.	Parts per Controller	Description	Price.
			£ s. d.
ARC SHIELD			
14536	1.	Arc shield complete	7 7 6
14537	1.	Top bracket complete with pivot pin	0 18 6
14538	1.	Bottom " " " "	1 4 0
14539	2.	Insulated tie rods complete with nuts and washerseach	0 2 6
14540	16.	1" thick spacing block treated wood	0 0 6
14541	10.	1 1/4" " " " "	0 9 6
12764	14.	Asbestos deflector plates with iron core	0 6 3
14542	1.	Foot catch complete.....	0 5 0
14543	2.	Fixing Scrs. for above 1/4" x 1" Special Hex. Head iron tap bolt gross	0 14 6
FINGER DETAILS			
14544	1.	Long finger base block, complete with fingers and finger shields ...	6 11 0
12768	1.	Short " " " " " " ...	2 15 0
14545	1.	Long " " " without " " ...	0 16 0
12770	1.	Short " " " without " " ...	0 7 9
12771	7.	Fixing Screws for finger base blocks 5/16" x 2" Whit. Cheese Head I.M.Sc.....gross	0 17 6
35	7.	Washers for aboveper 100	0 1 0
12772	1.	Asbestos finger shield 3/16" x 4 1/4" x 6 3/8" for fingers R 2 to R 5.....	0 0 9
12773	1.	" " " 3/16" x 4 1/4" x 5 1/8" " R 6 to B.....	0 0 8
12774	1.	" " " 3/16" x 4 1/4" x 4 7/8" " R 3 to T.....	0 0 8
12775	1.	" " " 3/16" x 4 1/4" x 5 3/8" " R 4 to 3.....	0 0 8
14546	1.	" " " 3/16" x 4 1/4" x 7 11/16" " 3 to F1.....	0 0 11
12777	1.	" " " 3/16" x 3 7/8" x 8" " F 2 to 3.....	0 0 9
12778	12.	Fixing Scrs. for above No. 10 x 5/8" Flat Head Iron Wood Screw gross	0 1 6
12779	3.	1/2" finger, complete with finger base, shunt, spring and fixing bolt, left handeach	0 4 3
12780	3.	1/2" finger complete as above, Right Hand.....	0 4 3
12781	1.	1/8" " " Left Hand No. 1 Cut Out.....	0 6 3
12782	1.	1/8" " " Right Hand No. 2 " "	0 6 3
12783	4.	3/8" " " Left Handeach	0 4 6
12784	1.	5/8" " " Left Hand No. 1 Cut Out	0 6 6
12785	1.	5/8" " " Left Hand No. 2 " "	0 6 6
12786	5.	3/4" " " Left Handeach	0 5 0
12787	2.	3/4" " " Right Hand	0 5 0
12788	2.	3/4" " " Left Hand double terminal	0 5 2
12789	2.	1" " " Left Hand	0 5 6
12790	2.	1" " " Right Hand	0 5 6
12791	1.	1" finger complete with finger base, shunt, spring and fixing bolt, Left Hand double terminal	0 5 9
12792	8.	1/2" finger complete with shunt, spring, tip, adjusting Screw and nut for same.....each	0 2 9
12793	6.	5/8" finger complete as above.....	0 3 0
12794	9.	3/4" " " " "	0 3 3
12795	5.	1" " " " "	0 3 6

Order by Style Number.



PARTS OF TYPE T CONTROLLER

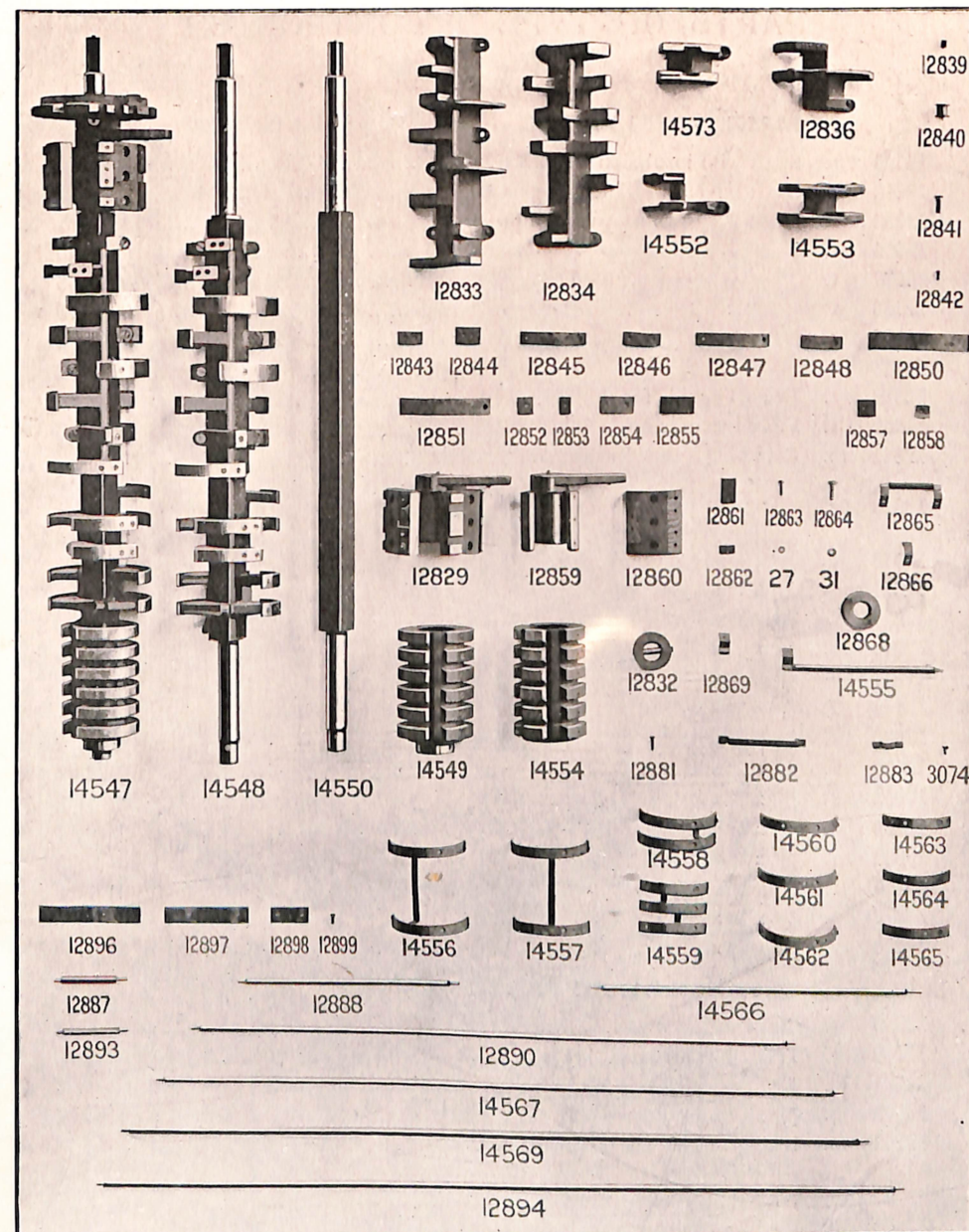
FINGER DETAILS (Continued)

Style No.	Parts per Controller	Description	Price, £ s. d.
12796	3. $\frac{1}{2}$ "	Finger Base Left Handeach	0 1 3
12797	3. $\frac{1}{2}$ "	Right Hand "	0 1 3
12798	4. $\frac{5}{8}$ "	Left Hand "	0 1 5
12799	5. $\frac{3}{4}$ "	Left Hand "	0 1 6
12800	2. $\frac{3}{4}$ "	Right Hand "	0 1 6
12801	2. $\frac{3}{4}$ "	Left Hand, with double terminal "	0 1 8
12802	2. 1"	Left Hand "	0 1 8
12803	2. 1"	Right Hand "	0 1 8
12804	1. 1"	Left Hand, with double terminal "	0 1 9
12805	1. $\frac{1}{2}$ "	Left Hand, with No. 1 Cut-out lever "	0 3 3
12806	1. $\frac{1}{2}$ "	Right Hand 2 " "	0 3 3
12807	1. $\frac{5}{8}$ "	Left Hand 1 " "	0 3 5
12808	1. $\frac{5}{8}$ "	Left Hand 2 " "	0 3 5
12809	8. $\frac{1}{2}$ "	Finger Spring "	0 0 6
12810	6. $\frac{5}{8}$ "	 "	0 0 8
12811	9. $\frac{3}{4}$ "	 "	0 0 9
12812	5. 1"	 "	0 0 11
12813	8. $\frac{1}{2}$ "	Copper shunt consisting of 4 pieces of brush copper doz.	0 1 3
12814	6. $\frac{5}{8}$ "	 " " " " " "	0 1 5
12815	9. $\frac{3}{4}$ "	 " " " " " "	0 1 6
12816	5. 1"	 " " " " " "	0 1 8
12817	8. $\frac{1}{2}$ "	Finger Tip "	0 4 0
12818	6. $\frac{5}{8}$ "	 "	0 4 6
12819	9. $\frac{3}{4}$ "	 "	0 5 3
12820	5. 1"	 "	0 6 0
12821	28.	Finger base fixing bolt with nuts and washers $\frac{1}{4}$ " Whit. Button Head Bolt doz.	0 1 6
3279	28.	Washer for finger Base fixing bolt per 100	0 1 0
12822	28.	Terminal screw for finger base No. 2 B.A. $\times \frac{5}{8}$ " Cheese Head, I.M.Sc. per 100	0 5 0
12823	28.	Lock nut No. 2 B.A. for Terminal Screw "	0 3 0
12824	28.	Screw for finger Tip "	0 4 6
242	28.	Washer for " "	0 1 6
12825	28.	Adjusting Nut for finger $\frac{1}{4}$ " Whit. Square "	0 3 9
12826	48.	Copper rivets for finger spring $\frac{1}{8} \times \frac{7}{16}$ " "	0 1 0

DRUMS

14547	1.	Main, Reverse and Brake drums, with ratchet and shaft complete	9 9 0
14548	1.	Main drum only with shaft.....	5 15
12829	1.	Reverse drum only "	0 18 9
14549	1.	Brake " "	2 7 6

Order by Style Number.



For Dimensions of Drum Segments See Pages 14 and 15.

PARTS OF TYPE T CONTROLLER

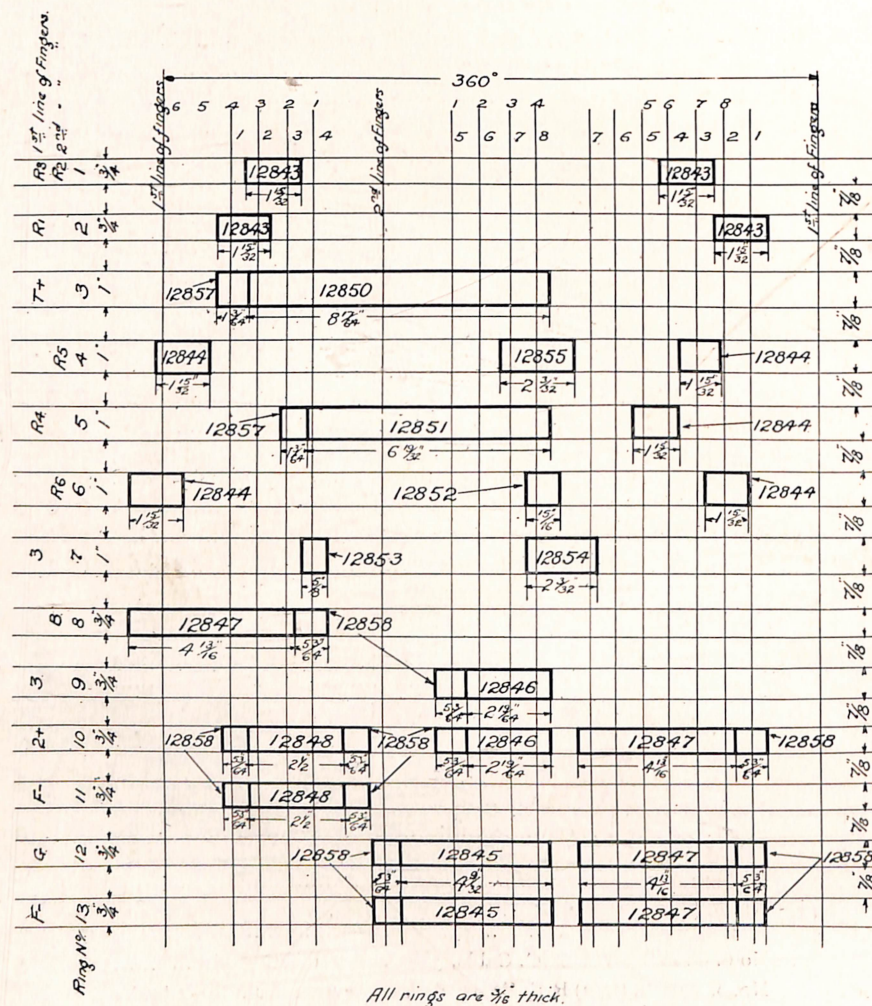
Style No.	Parts per Controller	Description	Price £ s. d.
MAIN DRUM PARTS			
14550	1.	Shaft with insulation	1 4 0
12832	1.	Shaft top steel collar with pins	0 2 3
12833	1.	Drum Rings cast iron 1 to 8 power side	0 6 9
12834	1.	„ „ 1 to 8 brake side	0 6 0
14573	1.	„ „ 9 to 11 power side	0 3 6
12836	1.	„ „ 9 to 11 brake side.....	0 3 9
14552	1.	„ „ 12 to 13 power side	0 4 0
14553	1.	„ „ 12 to 13 brake side	0 3 6
12839	1.	Brass Thimble for ring No. 11 $\frac{3}{16}$ " dia., $\frac{7}{16}$ " long	0 7 6
12840	1.	Fibre bush for cable	0 0 6
12841	10.	Clamping screw for drum rings $\frac{5}{16}$ " Whit. x 1" Flat Head, I.M.Sc. per 100	0 9 0
12842	62.	„ „ for attaching copper segments No. 2 B.A. x $\frac{1}{2}$ " Flat Head I.M.Sc.per 100	0 4 6
12843	4.	$\frac{3}{16}$ " x $\frac{3}{4}$ " x $1\frac{1}{2}$ " Copper segments used on rings No. 1, 2.....doz.	0 4 6
12844	5.	$\frac{3}{16}$ " x 1" x $1\frac{1}{2}$ " „ „ „ 4, 5, 6, „	0 6 0
12845	2.	$\frac{3}{16}$ " x $\frac{3}{4}$ " x $4\frac{9}{16}$ " „ „ „ 12, 13..... „	0 13 6
12846	2.	$\frac{3}{16}$ " x $\frac{3}{4}$ " x $2\frac{1}{4}$ " „ „ „ 9, 10..... „	0 8 3
12847	4.	$\frac{3}{16}$ " x $\frac{3}{4}$ " x $4\frac{1}{2}$ " „ „ „ 8, 10, 12, 13 „	0 14 3
12848	2.	$\frac{3}{16}$ " x $\frac{3}{4}$ " x $2\frac{1}{2}$ " „ „ „ 10, 11 „	0 9 0
12850	1.	$\frac{3}{16}$ " x 1" x $8\frac{1}{4}$ " „ „ „ 3 „	1 4 0
12851	1.	$\frac{3}{16}$ " x 1" x $6\frac{1}{4}$ " „ „ „ 5 „	0 19 6
12852	1.	$\frac{3}{16}$ " x 1" x $\frac{15}{16}$ " „ „ „ 6 „	0 5 3
12853	1.	$\frac{3}{16}$ " x 1" x $\frac{5}{8}$ " „ „ „ 7 „	0 4 6
12854	1.	$\frac{3}{16}$ " x 1" x $2\frac{3}{32}$ " „ „ „ 7 „	0 9 9
12855	1.	$\frac{3}{16}$ " x 1" x $2\frac{3}{32}$ " „ „ „ 4 „	0 9 9
12857	2.	$\frac{3}{16}$ " x 1" x $1\frac{3}{4}$ " „ „ „ 3, 5 „	0 4 6
12858	12.	$\frac{3}{16}$ " x $\frac{3}{4}$ " x $\frac{5}{8}$ " „ „ „ 8, 9, 10, 11, 12, 13 „	0 3 9
REVERSE DRUM PARTS			
12859	1.	Cast-iron drum	0 8 3
12860	2.	Treated ash segment bases.....each	0 1 0
12861	6.	$\frac{3}{16}$ " x $\frac{7}{8}$ " x $1\frac{1}{2}$ " Copper segmentdoz.	0 7 6
12862	4.	$\frac{3}{16}$ " x $\frac{1}{2}$ " x $\frac{7}{8}$ " „ „	0 4 6
12863A	16.	Fixing screws for segments No. 2 B.A. x $\frac{3}{8}$ " Cheese Head Brass Mach. Screws	0 8 0
27	16.	Washers for fixing screwsper 100	0 1 0
12864	6.	Fixing screws for bases No. O. B.A. x $\frac{7}{8}$ " Cheese Head I.M.Sc. gross	0 6 6
12865	2.	No. 6 B. & S. (*1620) R.C. Cable with Sleeve terminalseach	0 0 9
31	6.	Washer for No. O.B.A. fixing screws.....per 100	0 1 6
12866	4.	Sleeve terminaldoz.	0 4 6

Order by Style Number.

PARTS OF TYPE T CONTROLLER

Style No.	Parts per Controller	Description	Price. £ s. d.
BRAKE DRUM PARTS			
14554	1.	Treated Ash cylinder, complete with clamping rings	0 14 0
12868	1.	Steel collar complete with pins	0 3 0
12869	1.	Sleeve terminaldoz.	0 4 6
14555	1.	Sleeve terminal with 6" connecting cable	0 1 2
14556	1.	Rings 1 and 5 power side, complete with connecting strip	0 2 0
14557	1.	„ 2 and 6 „ „ „ „	0 2 0
14558	1.	„ 3 and 4 „ „ „ „	0 1 9
14559	2.	Rings 1, 2, 3, or 4, 5, 6 brake side „each	0 2 0
14560	2.	Rings 1 and 5 power side $\frac{1}{8}$ " x $\frac{5}{8}$ " x $7\frac{3}{4}$ " „	0 0 9
14561	2.	„ 2 and 6 „ $\frac{1}{8}$ " x $\frac{5}{8}$ " x $7\frac{3}{4}$ " „	0 0 9
14562	2.	„ 3 and 4 „ $\frac{1}{8}$ " x $\frac{5}{8}$ " x $7\frac{3}{4}$ " „	0 0 9
14563	2.	„ 1 and 4 brake side $\frac{1}{8}$ " x $\frac{5}{8}$ " x $4\frac{3}{8}$ " „	0 0 6
14564	2.	„ 2 and 5 „ $\frac{1}{8}$ " x $\frac{5}{8}$ " x $4\frac{3}{8}$ " „	0 0 6
14565	2.	„ 3 and 6 „ $\frac{1}{8}$ " x $\frac{5}{8}$ " x $4\frac{3}{8}$ " „	0 0 6
12881	30.	Fixing screws for segments, No. 10 Flat Head Brass Wood Screw, $\frac{7}{8}$ " longdoz.	0 0 3
12882	2.	Copper connecting piece, $\frac{1}{8}$ " x $\frac{3}{8}$ " x $6\frac{5}{8}$ " developed length.....each	0 0 9
12883	5.	„ „ $\frac{1}{8}$ " x $\frac{3}{8}$ " x $2\frac{3}{4}$ " „ „ „	0 0 6
3074	14.	Copper rivets Round Head, $\frac{3}{16}$ " x $\frac{3}{8}$ "per 100	0 1 0
WIRING			
12887	1.	No. 4, B. & S. (*2043) R.C. Cable, 4" long, No. 3 main drum to No. 3 main drum.....	0 0 3
12893	1.	No. 6, B. & S. (*162) R.C. Cable, 4" long, F 1—main drum to F 1—main drum	0 0 2
12888	1.	No. 6, B. & S. (*162) R.C. Cable, 1' 1" long, No. 3 main drum to No. 3 blow-out coil.....	0 0 5
14566	1.	No. 6, B. & S. (*162) R.C. Cable, 1' 6" long, No. 3 main drum to No. 3 brake drum	0 0 6
12890	1.	No. 6, B. & S. (*162) R.C. Cable, 3' 3" long, + 2 main drum, to + 2 reverse drum.....	0 1 2
14567	1.	No. 6, B. & S. (*162) R.C. Cable, 3' 4" long, + 1 reverse drum to + 1 brake drum	0 1 2
14569	1.	No. 6, B. & S. (*162) R.C. Cable, 3' 4", coil connecting wire... ..	0 1 2
14569	1.	No. 6, B. & S. (*162) R.C. Cable, 3' 9", — 1 reverse drum to— 1 brake drum	0 1 3
12894	1.	No. 6, B. & S. (*162) R. C. Cable, 4' 1", — 2 Reverse drum to— 2 brake drum	0 1 5
12896	1.	Fuller board cleat for 3 wires.....	0 0 2
12897	1.	„ „ 2 „ „	0 0 2
12898	1.	„ „ 1 wire „	0 0 2
12899	5.	Fixing screws for cleat, No. 2 B.A. x $\frac{3}{8}$ " Round Head, I.M.Sc. gross	0 3 9

Order by Style Number.

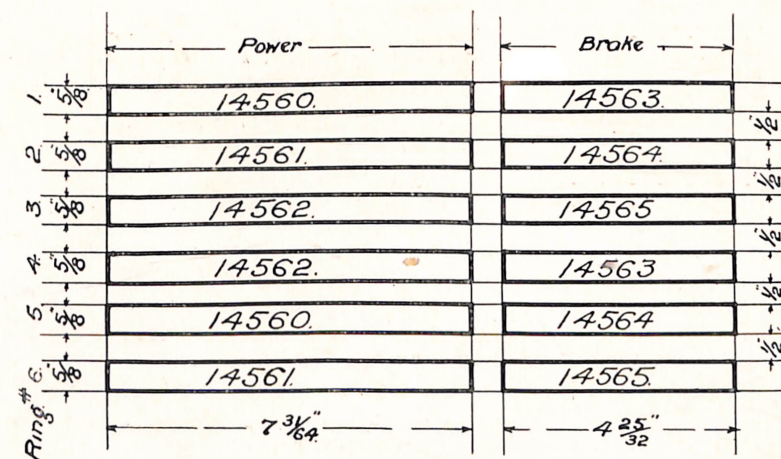


Main Drum Development

	Rev	For	Rev	For	
$\frac{1}{2}$	B		B		$\frac{1}{2}$
$\frac{1}{2}$		A		A	$\frac{1}{2}$
$\frac{1}{2}$	A		A		$\frac{1}{2}$
$\frac{1}{2}$		A		A	$\frac{1}{2}$
$\frac{1}{2}$	B		B		$\frac{1}{2}$
$\frac{7}{8}$		$\frac{7}{8}$	$\frac{7}{8}$		$\frac{7}{8}$

Piece A = 12861.
" B = 12862.

Reverse Drum Development



14556 Includes Rings 1 & 5 Power side with connecting strip.
14557 " " 2 & 6 " " " "
14558 " " 3 & 4 " " " "
14559 " " 1, 2, & 3 or 4, 5, & 6 Brake Side.

Brake Drum Development

The British Westinghouse

Electric & Mfg. Co., Ltd.

Registered Offices and Export Dept.:

LONDON: Westinghouse Building, Norfolk Street, Strand, W.C.
 Telegraphic and Cable Address:—"Multiphase, London." National Telephone:—No. 3261 Gerrard.
 Codes used:—Westinghouse and Lieber.

Head Office and Works:

MANCHESTER: Trafford Park.
 Telegraphic and Cable Address:—"Westinghouse, Manchester."
 National Telephone:—Nos. 7101 to 7108 Central (inclusive.)

Branch Offices:

BIRMINGHAM Winchester House, Victoria Square.
 CARDIFF 102, St. Mary Street.
 GLASGOW Castle Chambers, 65, Renfield Street.
 MANCHESTER Commercial Buildings, 15, Cross Street.
 NEWCASTLE-ON-TYNE Ward's Buildings, High Bridge.
 SHEFFIELD Bank Chambers, Fargate.

Telegraphic Address for all Branch Offices: "Multiphase" (with name of town).

For South Africa:—

JOHANNESBURG Consolidated Building. Tel. Address: "Converter, Johannesburg."

Agents

SYDNEY - - - - -	Noyes Bros. (Sydney) Ltd., 109, Pitt St.	
MELBOURNE - - - - -	Noyes Bros. (Melbourne) Ltd., 153/7, William Street.	
PERTH - - - - -	Noyes Bros. (Melbourne) Ltd., Commercial Bank Chambers, St. George's Terrace.	For Australia, New Zealand and Tasmania.
BRISBANE - - - - -	Noyes Bros. (Sydney) Ltd., 45, Adelaide St.	
WELLINGTON, CHRIST- CHURCH, & DUNEDIN- CALCUTTA - - - - -	Turnbull & Jones, Ltd., Selling Agents. Jessop & Co., Ltd., 93, Clive Street. (For India, Upper and Lower Burmah and Island of Ceylon.)	
MEXICO - - - - -	G. & O. Braniff, City of Mexico.	
NEWFOUNDLAND - - -	Reid Newfoundland Co., St. Johns.	
JAPAN - - - - -	Takata & Co., Tokio.	
CUBA - - - - -	Chas. H. Thrall & Co., Havana.	
BRAZIL - - - - -	Trajano de Madeiros & Co., Rio de Janeiro.	
CHILE, PERU, BOLIVIA, & ECUADOR - - - - -	J. K. Robinson, Iquique, Chile.	
SWEDEN - - - - -	Henrik Bergendahl, Gothenburg, Sweden (for Sweden).	
NORWAY - - - - -	Elektrisk Bureau, Christiania.	
EGYPT & SOUDAN - - -	Orenstein & Koppel, Alexandria, Cairo and Khartoum.	
ARGENTINE, URUGUAY & PARAGUAY - - - - -	Agar Cross & Co., 947, Calle Cuyo 949, Buenos Ayres.	
BULAWAYO - - - - -	Sykes & Co. (for Rhodesia).	
DENMARK - - - - -	Kemp & Lauritzen, Copenhagen.	
BOMBAY - - - - -	Bradbury Brady & Co. (for Bombay Presidency).	

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 for France, Belgium, Spain, Portugal, Holland, Switzerland, Italy, their Colonies and Countries under their protectorate.

SOCIÉTÉ ELECTRIQUE WESTINGHOUSE DE RUSSIE,
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 BERLIN, N.W., 51, Dorotheenstrasse,
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