

TYPE A DRUM CONTROLLERS

For

A-C. and D-C. MOTORS

ORDERING INFORMATION

Name the part and give the complete nameplate reading.

State whether shipment is desired by express, freight or by parcel post.

Send all orders or correspondence to nearest Sales Office of the Company.

Small orders should be combined so as to amount to at least five dollars, as order handling and shipping expenses prevent us from billing a smaller amount.

RECOMMENDATIONS FOR STOCK

The recommended list of Renewal Parts in this leaflet is given only as a guide. When continuous operation is a primary consideration, additional insurance against shutdowns is desirable. Under such conditions more renewal parts should be carried, the amount depending upon the severity of service and the time required to secure renewals.

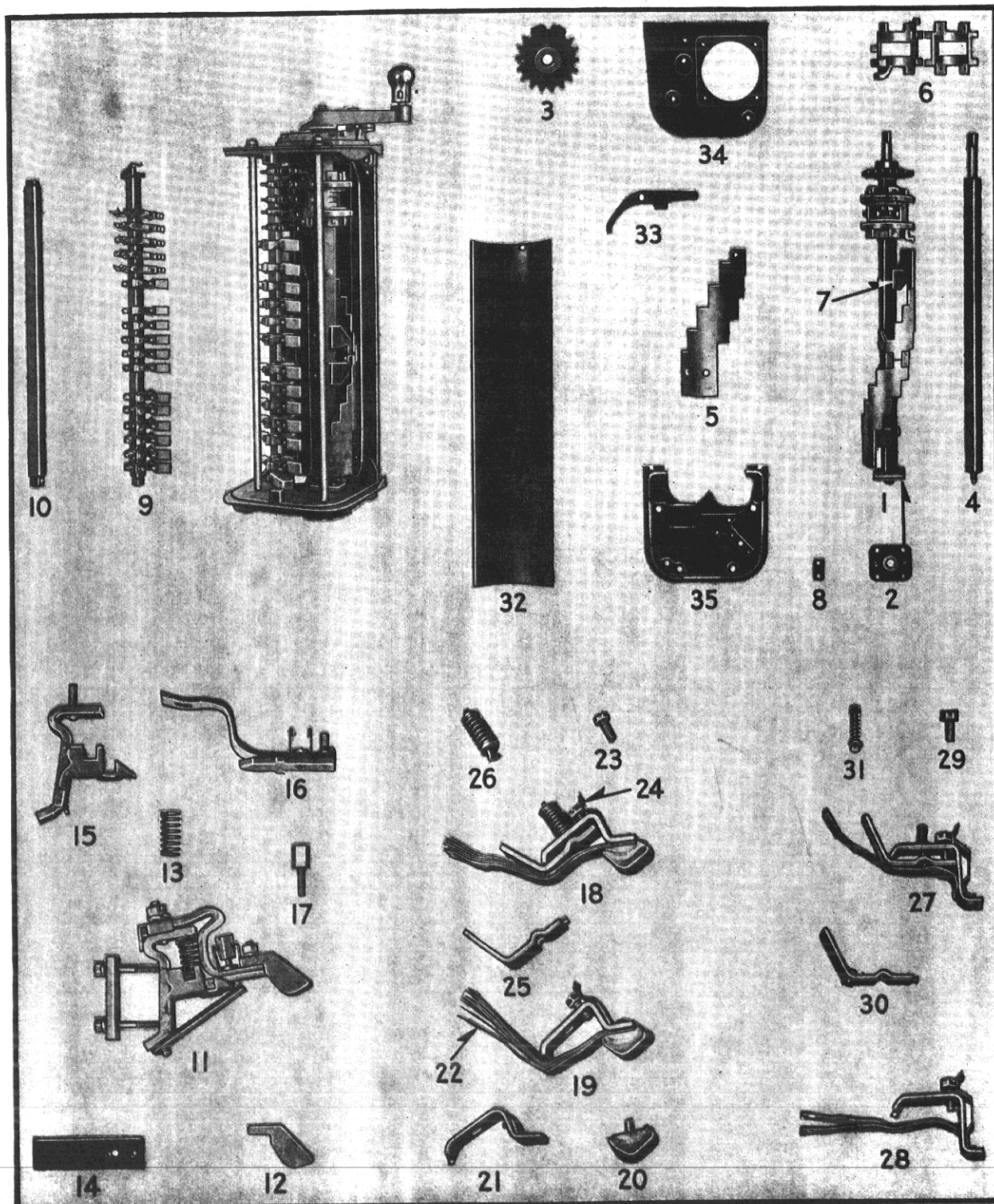
WESTINGHOUSE ELECTRIC CORPORATION

Buffalo Plant

Motor and Control Division

Buffalo 5, N. Y.
(3-56) Printed in U.S.A.

TYPE A DRUM CONTROLLERS (A-C. NON-REVERSING)



A-C. NON-REVERSING CONTROLLERS

TYPE A DRUM CONTROLLERS (A-C. NON-REVERSING)

RECOMMENDED STOCK OF RENEWAL PARTS

Controllers in Use.....		1		5
Reference Numbers	*Description of Part	Number per Controller	Ø Recommended for Stock	
1	Drum Shaft Assembly.....	1	0	0
2	Ball Bearing.....	1	0	1
3	Star Wheel.....	1	0	0
4	Drum Shaft.....	1	0	0
5	Main Contact Segment.....	2	1	2
6	Auxiliary Contact Segment.....	1	0	1
7	Support for Main Contact Segment.....	4	0	0
x	Support for Auxiliary Contact Segment.....	4	0	0
8	Connector between Main Contact Segments.....	2	0	2
9	Finger Bar Assembly.....	1	0	0
10	Finger Bar with Insulation.....	1	0	0
11	°Finger Complete—Main.....	1 set	1	2
12	Finger Tip.....	1 set	½ set	1 set
13	Finger Spring.....	1 set	0	¼ set
14	Finger Arc Barrier.....	1 set	¼ set	¼ set
15	Finger Support.....	1 set	0	0
16	Tip Support with Shunt.....	1 set	1	2
17	Adjusting Screw.....	1 set	0	1
18	°Finger Complete—Main.....	1 set	1	2
19	Finger Tip Assembly.....	1 set	0	0
20	Finger Tip.....	1 set	½ set	1 set
21	Tip Support.....	1 set	0	0
22	Shunt.....	1 set	7	14
23	Adjusting Screw.....	1 set	0	1
24	Locking Clip for Adjusting Screw.....	1 set	1	2
25	Finger Support.....	1 set	0	0
26	Spring & Pin Assembly.....	1 set	1	¼ set
27	Finger Complete—Auxiliary.....	1 set	2	4
28	Finger Tip Assembly.....	1 set	0	0
29	Adjusting Screw.....	1 set	0	1
30	Finger Support.....	1 set	0	0
31	Spring and Pin Assembly.....	1 set	1	2
32	Drum Guard.....	1	0	0
x	Insulation Tube for Tie Rod.....	1	0	0
33	Pawl with Roller.....	1	0	0
x	Spring for Pawl.....	1	0	1
x	Bearing Post for Pawl.....	1	0	0
34	Top Casting.....	1	0	0
35	Bottom Casting.....	1	0	0

x Not illustrated.

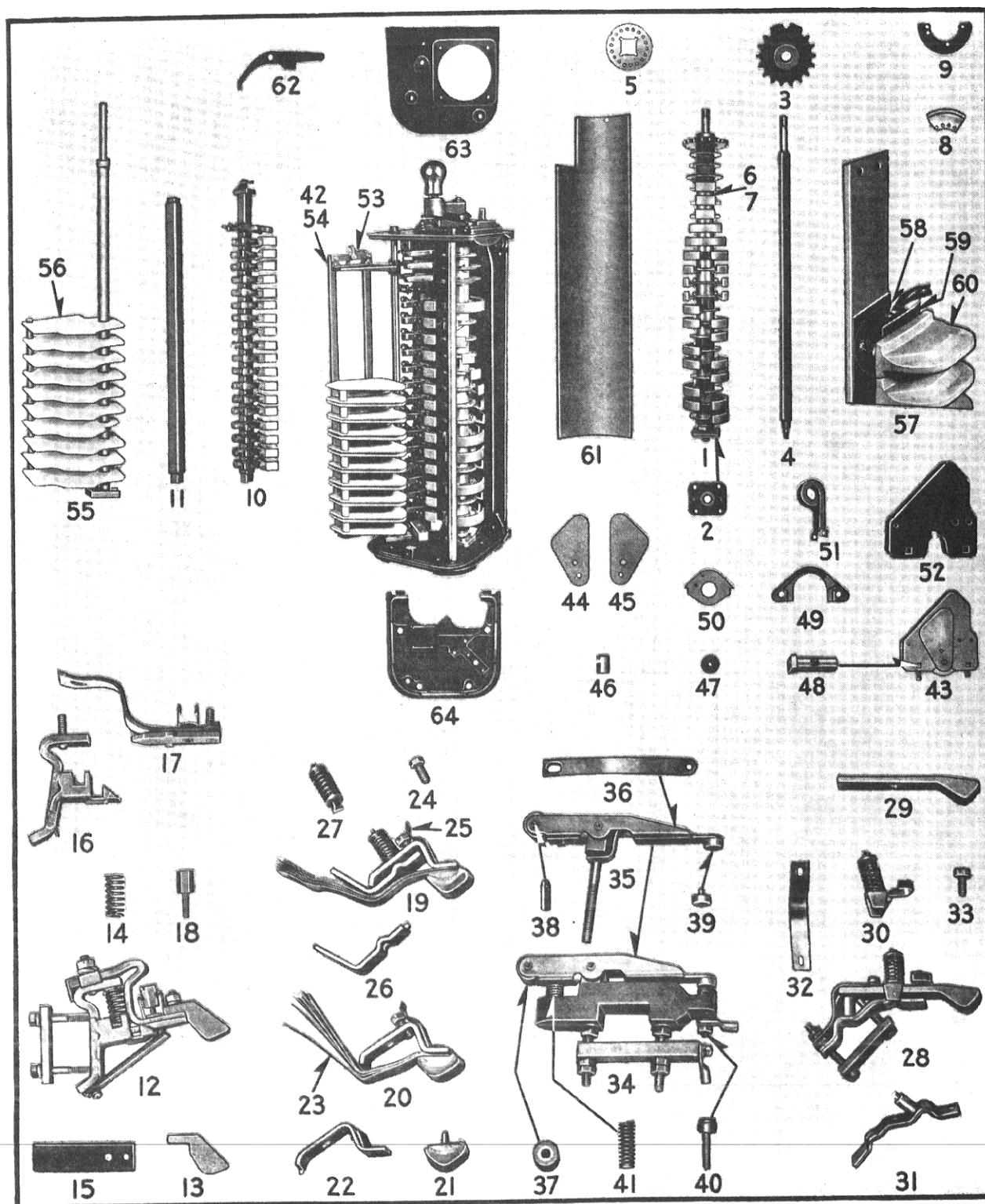
° Some Controllers use Finger Ref. 11 while others use Finger Ref. 18.

* Parts indented are included in the part under which they are indented.

Ø When fractional parts result because of fractional recommendations, use the next higher interger.

For Operating Heads, see Page 6.

TYPE A DRUM CONTROLLERS (A-C. AND D-C. REVERSING)



A-C. AND D-C. REVERSING CONTROLLERS

TYPE A DRUM CONTROLLERS (A-C. AND D-C. REVERSING)

RECOMMENDED STOCK OF RENEWAL PARTS

Controllers in Use.....				1	5	Controllers in Use.....				1	5
Ref. No.	*Description of Part	No. per Controller	ØRecommended For Stock			Ref. No.	*Description of Part	No. per Controller	ØRecommended For Stock		
1	Drum Shaft Assembly.....	1	0	0		42	††Blowout and Barrier Assembly.....	1	0	0	
2	Ball Bearing.....	1	0	1		43	Arc Box with Blowout Coil				
3	Star Wheel.....	1	0	0			Clockwise (Black).....	1 set	1	2	
4	Drum Shaft with Insulation.....	1	0	0		43	Arc Box with Blowout Coil				
5	Support for Segments & Cams.....	1 set	1	2			Counter Clockwise (Red).....	1 set	1	2	
6	*Micarta Spacer.....	1 set	0	0		44	Pole Piece—Top.....	1 set	0	0	
7	*Brass Spacer.....	1 set	0	0		45	Pole Piece—Bottom.....	1 set	0	0	
8	*Main Contact Segment.....	1 set	0	1 set		46	Core Insulation Tube.....	1 set	0	0	
8	ØAuxiliary Contact Segment.....	1 set	0	1 set		47	Core Washer.....	1 set	0	0	
9	†Auxiliary Contact Cam.....	1 set	0	0		48	Insert.....	1 set	0	0	
x	Arising Tip.....	1 set	½ set	1 set		49	Coil Shield.....	1 set	0	0	
10	Finger Bar Assembly.....	1	0	0		50	Coil Seal.....	1 set	0	0	
11	Finger Bar with Insulation.....	1	0	0		51	Blowout Coil—Clockwise				
12	†Finger Complete.....	1 set	1	2			(Black).....	1 set	0	0	
13	Finger Tip.....	1 set	½ set	1 set		51	Blowout Coil—Counter				
14	Finger Spring.....	1 set	0	½ set			Clockwise (Red).....	1 set	0	0	
15	Finger Arc Barrier.....	1 set	¼ set	½ set		52	Arc Box Only.....	1 set	0	0	
16	Finger Support.....	1 set	0	0							
17	Tip Support with Shunt.....	1 set	1	2		48,49,52	Arc Box without Blowout Coil.....	1 set	1	2	
18	Adjusting Screw.....	1 set	0	1		48	Insert.....	1 set	0	0	
19	†Finger Complete.....	1 set	1	2		49	Coil Shield.....	1 set	0	0	
20	Finger Tip Assembly.....	1 set	0	0		52	Arc Box Only.....	1 set	0	0	
21	Finger Tip.....	1 set	½ set	1 set		x	Shunt.....	2	2	4	
22	Tip Support.....	1 set	0	0		x	Insulation Tube for Shaft.....	1	0	0	
23	Shunt.....	1 set	7	14		53	Spring for Latch				
24	Adjusting Screw.....	1 set	0	1			(When Used).....	1	0	1	
25	Locking Clip for Adjusting					54	††Barrier Assembly.....	1	0	0	
26	Screw.....	1 set	1	2		48,52	Arc Box without Blowout				
27	Finger Support.....	1 set	0	0			Coil.....	1 set	1	2	
27	Spring and Pin Assembly.....	1 set	1	¼ set		48	Insert.....	1 set	0	0	
x	Finger Arc Barrier for Ref. 19 (when used)	1 set	¼ set	½ set		52	Arc Box Only.....	1 set	0	0	
28	†Finger Complete.....	1 set	1	2		55	††Barrier Assembly.....	1	0	0	
29	Finger Tip.....	1 set	½ set	1 set		56	Barrier Plate.....	1 set	0	½ set	
30	Spring and Pin Assembly.....	1 set	1	¼ set		57	††Blowout and Barrier				
31	Finger Support.....	1 set	0	0			Assembly.....	1	0	0	
32	Shunt.....	1 set	4	8		58	Blowout Coil.....	1 set	0	1	
33	Adjusting Screw.....	1 set	0	1		59	Insulation Washer for				
x	Finger Arc Barrier for Ref. 28	1 set	¼ set	½ set			Blowout Coil.....	1 set	0	4	
34	Auxiliary Switch Complete					60	Pole Piece with Barrier.....	1 set	0	2	
	(When used).....	1 set	0	0		61	Drum Guard.....	1	0	0	
35	Moving Contact Element.....	1 set	0	1			Insulation Tube for Tie Rod.....	1 or 2	0	0	
36	Shunt.....	1 set	0	3		62	Pawl with Roller.....	1	0	0	
37	Roller.....	1 set	0	0		x	Spring for Pawl.....	1	0	1	
38	Roller Pin.....	1 set	0	0			Bearing Post for Pawl.....	1	0	0	
39	Contact Tip.....	1 set	1	2		63	Top Casting.....	1	0	0	
40	Stationary Contact.....	1 set	2	4		64	Bottom Casting.....	1	0	0	
41	Closing Spring.....	1 set	0	1							

x Not illustrated.

Ø When ordering Spacers, state if Brass or Micarta and specify Style Number of Spacer if known. Also give Spacer Position, numbering from Handle End;—the Position of the Spacer nearest the Handle being No. 1. See Table I, Page 7, for dimensions of commonly used spacers.

† When ordering Main Contact Segments specify the Style Number stamped on the segment and give the Main Segment position, numbering from the Handle End; with the first Main Contact Segment position designated as No. 1.

Ø When ordering Auxiliary Contact Segments specify the Style Number stamped on the Segment and give the Auxiliary Segment position, numbering from the Handle End, with the first Auxiliary Contact Segment position designated as No. 1.

† When ordering Auxiliary Contact Cams, if different kinds are used on the same Drum Shaft Assembly give the Cam position numbering from the Handle End; with the first auxiliary Contact Cam position designated as No. 1.

† A Given Controller may have one of the three finger designs illustrated by Reference Nos. 12, 19 or 28.

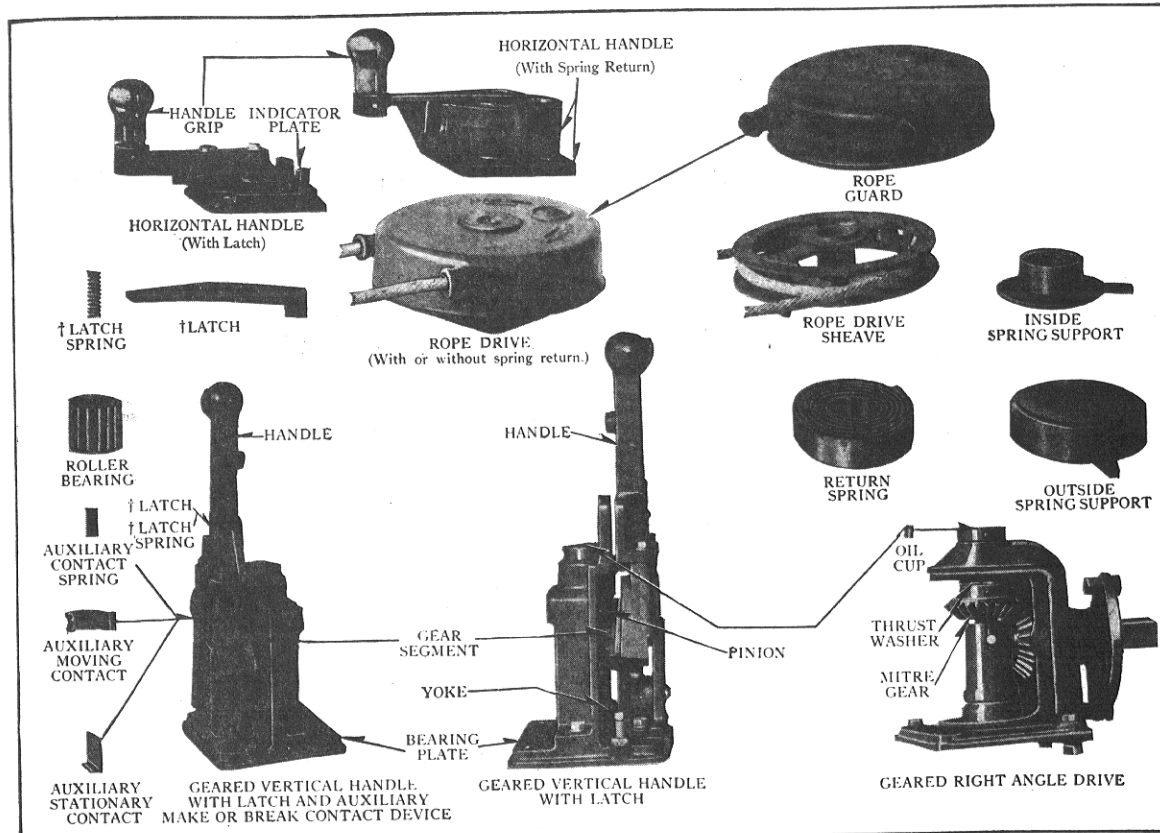
†† A Given Controller may have one of the Blowout and Barrier or Barrier Assembly designs illustrated by Ref. Nos. 42, 54, 55 or 57.

* Parts indented are included in the part under which they are indented.

Ø When fractional parts result because of fractional recommendations, use the next higher integer.

For Operating Heads, see Page 6

OPERATING HEADS FOR TYPE A DRUM CONTROLLERS



RENEWAL PARTS FOR OPERATING HEADS

Operating Heads are interchangeable and may be mounted in any one of four positions.
Spring Return Operating Heads are not recommended for use with Controllers having 1" finger tips.

RECOMMENDED STOCK OF RENEWAL PARTS

KIND OF OPERATING HEAD			Number Per Operating Head	Heads in Use	
Horizontal Handle	Rope Drive	Geared		1	5
*Description of Part				Recommended for Stock	
Handle with Latch		Handle with Latch	1	0	0
Handle Grip		Handle	1	0	0
xHandle Arm		Latch	1	0	0
Latch		Latch Spring	1	0	1
Latch Spring		xLatch Pin	1	0	0
xLatch Pin					
xHandle without Latch	xHandle without Latch		1	0	0
Handle Grip	Handle Grip		1	0	0
xBase	xBase		1	0	0
Inside Spring Support	Inside Spring Support		1	0	0
Outside Spring Support	Outside Spring Support		1	0	0
Return Spring	Return Spring		1	0	1
xReturn Spring Pin	xReturn Spring Pin		1	0	1
	Rope Drive Sheave		1	0	0
	Rope Guard		1	0	0
	Oil Cup	Oil Cup	1 set	0	0
Roller Bearing	Roller Bearing	Roller or Ball Bearing	1 set	0	1
Indicator Plate			1	0	0
		Gear Segment	1	0	0
		Pinion or Mitre Gear	1 set	0	0
		Thrust Washer	1 set	0	1
		xStop Arm	1	0	0
		xStop Pin	2	0	0
		xAuxiliary Contact Device	1	0	1
		Auxiliary Moving Contact	1	1	1
		xContact Tip	2	1	2
		Contact Spring	1 or 2	0	1
		xSpring Pin	2	0	0
		Auxiliary Stationary Contact	2	1	2
		Spring for Operating Pin	1	0	1

x Not illustrated.

* Parts indented are included in the part under which they are indented

TYPE A DRUM CONTROLLERS

TABLE I—SHAFT SPACERS—BRASS AND MICARTA

Style Number	Kind	I.D. Inches	O.D. Inches	Length Inches
557630	Brass	1 3/4	2	1 1/2
557631	Brass	1 3/4	2	1 3/8
557632	Brass	1 3/4	2	1 3/8
557633	Brass	1 3/4	2	1 3/8
557636	Brass	1 3/4	2	2 1/8
557649	Micarta	1 3/4	2	3/4
557650	Micarta	1 3/4	2	1
557651	Micarta	1 3/4	2	1 1/8
557652	Micarta	1 3/4	2	1 1/8
557653	Micarta	1 3/4	2	1 3/8
557654	Micarta	1 3/4	2	1 3/8
557655	Micarta	1 3/4	2	1 3/8
557656	Micarta	1 3/4	2	1 3/8
557657	Micarta	1 3/4	2	1 3/8
557658	Micarta	1 3/4	2	1 3/8
557659	Micarta	1 3/4	2	1 3/8
557660	Micarta	1 3/4	2	1 3/8
557661	Micarta	1 3/4	2	1 3/8
557662	Micarta	1 3/4	2	2
557663	Micarta	1 3/4	2	2 1/2
557664	Micarta	1 3/4	2	3 1/4
557665	Micarta	1 3/4	2	2 3/8
557666	Micarta	1 3/4	2	2 3/8
557667	Micarta	1 3/4	2	1 3/8
559257	Micarta	1 3/4	2	1 3/8
566805	Micarta	1 3/4	2	2 3/8
575256	Brass	1 3/8	1 1/4	1 3/8
596552	Micarta	1 3/4	2	2 3/8
599020	Micarta	1 3/4	2	2 3/8
599025	Brass	1 3/4	2	1 1/4
671150	Micarta	1 3/4	2	2 1/8
671151	Micarta	1 3/4	2	1 3/4
677417	Brass	1 3/4	2	1
677418	Micarta	1 3/4	2	1 3/8
687082	Micarta	1 3/4	2	3 1/8
689405	Micarta	1 3/4	2	5 3/4
689427	Brass	1 3/4	2	2 3/8
689435	Micarta	1 3/4	2	1 3/8
693857	Micarta	1 3/4	2	4
700488	Micarta	1 3/4	2	2 3/8
700552	Micarta	1 3/4	2	3/8
751887	Micarta	1 3/8	1 1/2	1 3/8
751888	Micarta	1 3/8	1 1/2	1 3/8
751889	Micarta	1 3/8	1 1/2	1 3/8
751890	Micarta	1 3/8	1 1/2	2 3/8
754559	Micarta	1 3/8	1 1/2	4 1/4
754589	Micarta	1 3/4	2	2 3/8
754727	Micarta	1 3/8	1 1/2	3
756885	Micarta	1 3/4	2	4 3/8
767635	Micarta	1 3/4	2	2 3/8
920254	Brass	1 3/4	2	1 3/8
1074914	Brass	1 3/4	2	2 1/4
1311799	Brass	1 3/4	2	2 1/8

The above Table lists the Style Number and gives the dimensions of the commonly used Spacers for the Drum Shaft Assemblies illustrated on Page 4.