General Electric Company Schenectady, N.Y.

JANUARY, 1921

BULLETIN NO. 54630.1

PARTS OF TYPE B-54 FORM A CONTROLLER

Cat.No. Description
221273 MAIN HANDLE, malleable iron, with locking wedge
189499 REVERSE HANDLE, malleable iron

FRAME AND DETAILS

1857501G1	FRAME with supporting bracket, bearing block, bearing cap, bushing, cap screws, pivot pin
	and latches for cover
1886845P2	Bearing cap for main cylinder shaft
1477996	Bearing block for reverse and cutout switch
100010571	cylinder shafts
1888407P1	Supporting bracket for bearing block
235501	Cap screw for fastening bearing cap to frame
	(3/8 in16, 1 5/8 in. hex.h. slot.
4.40000	sherardized)
149826	Cap screw for fastening bearing block to
	supporting bracket (5/16 in18, 1 3/4 in.
1.407000	hex.h. slot. sherardized)
1487229	Bushing for main cylinder shaft bearing
1401300	Hinge bracket for latch
234725	Latch for cover, consists of handle, compression
1150462D25	spring, eyebolt and hinge pin Handle for latch
1159463P25	
234726	Compression spring for handle
1443140	Retainer for compression spring
1487234	Eyebolt for latch
1487236 110774	Hinge pin for eyebolt
110774	Spring cotter for hinge pin (3/32 in. by 5/8 in. sherardized)
462600	Copper terminal for ground connection
176241	Cap screw for fastening copper terminal to frame
110241	(3/8 in.-16, 1/2 in. hex.h. slot.)
	sherardized)
141259	Washer for No. 176241 (13/32 in. by 3/4 in. by
111200	0.0625 in. sherardized)
154197	Spring lock washer for No. 176241 (13/32 in. by
	25/32 in. by $3/32$ in. thick)
1886876G1	Cap plate with bushing
112024	Bushing for main cylinder shaft bearing

NOTE: - Data subject to change without notice.

FRAME AND DETAILS (CONTINUED)

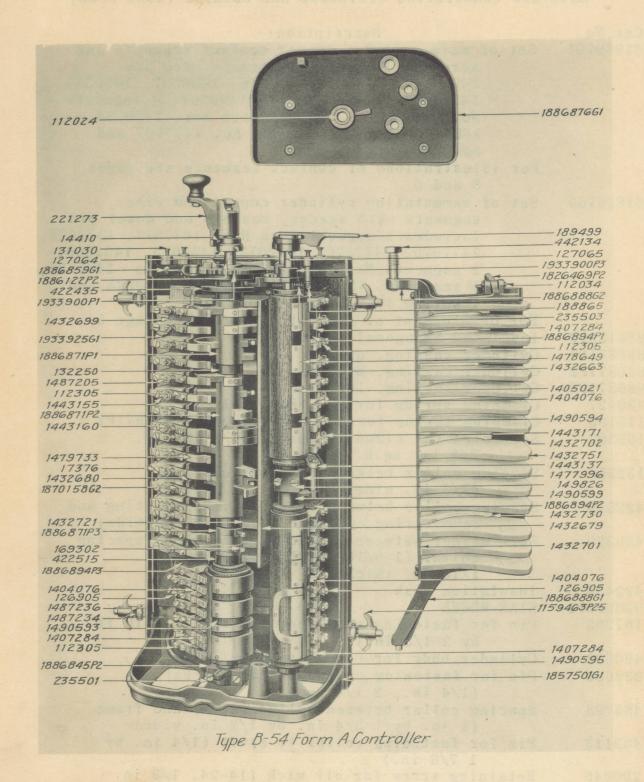
Cat.No.		Description
30520	Set	screw for bushing $(5/16 \text{ in.} -18, 5/16 \text{ in.}$
		headless, pointed, sherardized)
131030	Screw	for fastening cap plate to frame (3/8 in16,
		1 in. f.h. sherardized)
127064	Water	cap and pointer for main cylinder shaft,
		with set screw
127065	Water	cap for reverse or cutout switch cylinder
		operating shaft, with set screw
14410	Set	screw for No. 127064 or 127065 (5/16 in18,
		5/8 in. headless, sp'1, sherardized)
1886890 G 1	Sheet	iron cover
1656190P1	Slot	ted lug for cover

ARC DEFLECTOR AND DETAILS

1888408G1	ARC DEFLECTOR with arc suppressor plates
1432702	Wide strip for arc deflector
1432701	Narrow strip for arc deflector
1432751	Arcing plate
1432730	ARC SUPPRESSOR PLATE
127347	Screw for fastening arcing plate or arc suppressor
	plates to wide or narrow strip (No. 10,
	3/4 in. f.h. sherardized)
1886888G2	Hinge bracket, upper, with latch
	Hinge bracket, lower, with hinge pin
1826469P2	Latch for arc deflector
19977	Compression spring for latch
112034	Hinge pin for latch (3/8 in. by 2 in. long)
110774	Spring cotter for hinge pin $(3/32 \text{ in. by } 5/8 \text{ in.})$
	sherardized)
1487201	Hinge pin for lower hinge bracket
128999	Screw for fastening arc deflector to hinge bracket
	(5/16 in18, 3/4 in. r.h. sherardized)
145598	Washer for No. 128999 (21/64 in. by 5/8 in. by
	0.0625 in. sherardized)
154196	Spring lock washer for No. 128999 (21/64 in. by
	37/64 in. by 5/64 in. thick)
442134	Hinge bolt for arc deflector

MAIN AND COMMUTATING CYLINDERS AND DETAILS

1886122G1 MAIN CYLINDER with shaft, star wheel, insulation disk, commutating cylinder and contact segments

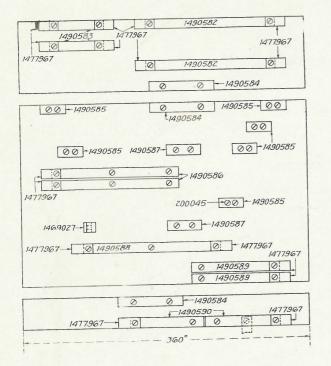


MAIN AND COMMUTATING CYLINDERS AND DETAILS (CONT NUED)

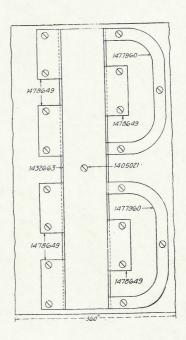
Cat.No.	Description
1618897G1	Set of main cylinder copper contact segments and
	screws. Includes 2 segments each Nos.
	1490582, 1490583, 1490586, 1490587, 1490589,
	1490590; 3 segments No. 1490584; 6 segments
	No. 1490585; 1 segment each Nos. 1490588,
	1469027; 16 burning tips No. 1477967 and
	50 screws No. 200045
	For illustrations of contact segments see pages
101000700	5 and 6
1618897G2	Set of commutating cylinder copper and fiber
	segments with screws, washers and dowel pin. Includes 1 segment each Nos. 1477971, 1477972,
	1477975, 1477976, 1432672, 1432673, 1432669;
	2 segments No. 1477974; 37 screws No. 1405021;
	1 screw No. 121815; 1 washer No. 143974 and
	1 spring look washer No. 154194
	For development of contact segments see page 5
1886122P2	Insulated hexagonal shaft
1886871P1	Cylinder casting, upper
1886871P2	Cylinder casting, middle
1886871P3	Cylinder casting, lower
436427	Clamping spring for No. 1886871P1
113193	Clamping spring for No. 1886871P2 or 1886871P3
169302	Set screw for clamping spring (3/8 in16,
	7/8 in. sq.h. st'd)
132250	Spacing collar between cylinder castings
400515	(7/8 in. wide)
422515	Spacing collar between lower cylinder casting and
400000	commutating cylinder body (3/4 in. wide)
460329	Felt washer between cylinder casting and spacing collar (1 9/16 in. by 2 1/8 in. by
	1/16 in. thick)
422435	Insulation disk
1933900P1	STAR WHEEL
167990	Pin for fastening star wheel to shaft (5/16 in.
101000	by 2 1/8 in.)
1490593	Cylinder body for commutating cylinder
228083	Pin for fastening cylinder body to shaft
	(1/4 in., 2 1/4 in.)
485798	Spacing collar between cylinder body and frame
	(1 in. by 1 3/4 in. by 1/2 in. wide)
402113	Pin for fastening collar to shaft (1/4 in. by
	1 7/8 in.)
200045	Retaining screw for oil wick (14-24, 1/2 in.
	f.h. sp'l, sherardized)

MAIN AND COMMUTATING CYLINDERS AND DETAILS (CONTINUED)

MAIN CYLINDER

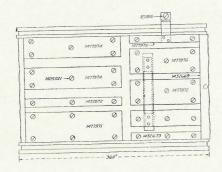


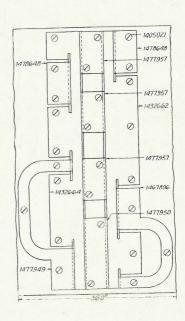
REVERSE CYLINDER



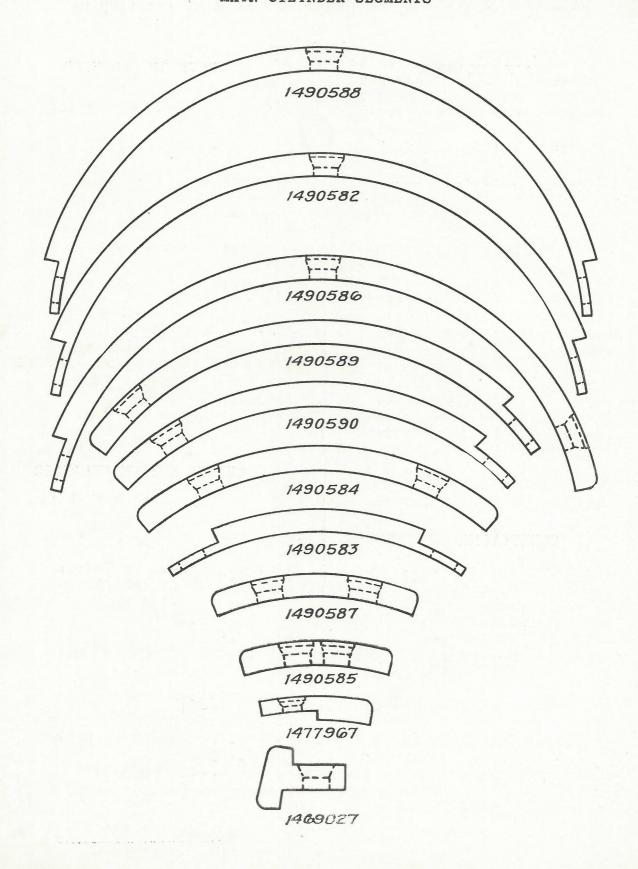
CUTOUT SWITCH CYLINDER

COMMUTATING CYLINDER





PARTS OF TYPE B-54 FORM A CONTROLLER MAIN CYLINDER SEGMENTS



MAIN AND COMMUTATING CYLINDERS AND DETAILS (CONTINUED)

Cat.No.	Description
1886859G1	Check pawl with roller, for main cylinder shaft
204123	Roller with pin
476469	Pivot pin for check pawl
149806	Washer for pivot pin (17/32 in. by 1 in. by 0.0625 in.
	sherardized)
133468	Spring cotter for pivot pin (1/8 in. by 3/4 in.
	sherardized)
235502	Compression spring for check pawl

REVERSE CYLINDER AND DETAILS

1886893G1	REVERSE CYLINDER with shaft, star wheel, collar and contact segments
1477960	Long copper contact segment
1478649	Short copper contact segment
1432663	Fiber filler segment
1405021	Segment screw (No. 8, 3/4 in. f.h. sp'1)
1886862G2	
1000000202	with screws. Includes 2 segments No. 1477960;
	6 segments No. 1478649; 1 segment No.
	1432663 and 19 screws No. 1405021.
	For development of contact segments see Page 5
1490594	Cylinder body
228083	Pin for fastening cylinder body to shaft (1/4 in.
	by 2 1/4 in.)
1933900P3	STAR WHEEL
401595	Collar for shaft $(3/4 \text{ in. by } 1 1/2 \text{ in. by } 1/2 \text{ in.}$
.04.000	thick)
29073	Pin for fastening star wheel or collar to shaft
	(1/4 in. by 1 5/8 in.)
1886859P3	Interlocking pawl for main and reverse cylinders
1487228	Hinge pin for interlocking and cutout switch
	cylinder pawls
235503	Tension spring for interlocking pawl
188865	Spring post for tension spring
154196	Spring lock washer for No. 188865 (21/64 in. by
	37/64 in. by 5/64 in. thick)

CUTOUT SWITCH CYLINDER AND DETAILS

1930591G1 OPERATING SHAFT for cutout switch cylinder, with star wheel and operating arm 1930591P10 Fiber insulation sleeve for operating shaft (3/4 in. by 7/8 in. by 14 3/4 in. long) 1933900P2 STAR WHEEL

CUTOUT SWITCH CYLINDER AND DETAILS (CONTINUED)

Description
Operating arm with pivot pin
Washer for pivot pin (15/32 in. by 7/8 in. by
0.0625 in. sherardized)
Spring cotter for pivot pin (3/32 in. by 5/8 in.
sherardized)
Pin for fastening star wheel or operating arm to
shaft (1/4 in. by 1 7/8 in.)
CUTOUT SWITCH CYLINDER with shaft, operating arm,
collar and contact segments
Set of cutout switch copper and fiber segments.
Includes 3 segments No. 1477957; 2 segments
No. 1478648; 1 segment each Nos. 1467896.
1477949, 1477950, 1432662, 1432664, and 27
screws No. 1405021
For development of contact segments see Page 5
Cylinder body
Pin for fastening cylinder body to shaft (1/4 in.
by 2 1/4 in.)
Operating arm with pivot pin
Washer for pivot pin (15/32 in, by 7/8 in, by
0.0625 in. sherardized)
Spring cotter for pivot pin $(3/32 \text{ in. by } 5/8 \text{ in.})$
sherardized)
Collar for shaft $(3/4 \text{ in. by } 1 1/2 \text{ in. by } 1/2 \text{ in. thick})$
Pin for fastening operating arm or collar to shaft
(1/4 in. by 1 5/8 in.)
Connection link for operating arms
Pawl for cutout switch cylinder
Compression spring for pawl

INSULATION TROUGH AND DETAILS

1886897 G 1	INSULATION TROUGH for main cylinder
1432678	Back plate for trough
1432679	Side plate for trough, right-hand
1432659	Side plate for trough, left hand
1432680	Finger shield for main contact finger
1432721	Arcing plate
194951	Screw for fastening side plate, back plate or
	finger shield to arcing plate (10-30,
	5/8 in. f.h. sherardized)
126912	Screw for fastening insulation trough to frame
	(14-24, 3/4 in. r.h. sherardized)
143974	Washer for No. 126912 (17/64 in. by 1/2 in. by
	0.0625 in. sherardized)
154194	Spring lock washer for No. 126912 (17/64 in. by
	29/64 in. by 5/64 in. thick)

MAIN FINGER BLOCK AND DETAILS

Cat.No.	Description
1888411G1 N	MAIN FINGER BLOCK with blowout coils, finger bases
	and contact fingers
235505	Main finger block with blowout coils and finger
200000	
	bases, without fingers
1432699	Finger block
1933925G1	
193392301	Blowout coil with pole pieces, terminal block and
	finger base
133475	Screw for fastening blowout coil to finger block
100410	
	(14-24, 1 1/8 in. r.h. sherardized)
143974	Washer for No. 133475 (17/64 in. by 1/2 in. by
	0.0625 in. sherardized)
154194	Spring lock washer for No. 133475 (17/64 in. by
	29/64 in. by 5/64 in. thick)
1 4 4 9 1 7 0	
1443170	Large copper terminal for blowout coil
1443171	Small copper terminal for blowout coil
126905	Cap screw for fastening copper terminal to blowout
120300	
	coil (14-24, 5/8 in. hex.h. slot. sherardized)
143974	Washer for No. 126905 (17/64 in. by 1/2 in. by
1100,1	
	0.0625 in. sherardized)
154194	Spring lock washer for No. 126905 (17/64 in. by
	29/64 in. by 5/64 in. thick)
105015000	
1870158 G 2	Main contact finger. Per set of 16. Cat.No.
	is for one finger
1479733	Contact tip
112305	Cap screw for fastening contact tip to finger
	(14-24, 1/2 in. hex.h. slot. sherardized)
143974	Washer for No. 112305 (17/64 in. by 1/2 in. by
110011	
	0.0625 in. sherardized)
154194	Spring lock washer for No. 112305 (17/64 in.
101101	
	by 29/64 in. by 5/64 in. thick)
1487205	Adjusting screw
234753	Compression spring
1443160	Retainer for compression spring
1443155	Locking spring for adjusting screw
143497	Spring cotter for adjusting screw (1/16 in. by
110101	
	1/2 in. sherardized)
17376	Cap screw for fastening contact finger to finger
	base (5/16 in18, 3/4 in. hex.h. slot.
	sherardized)
145598	Washer for No. 17376 (21/64 in. by $5/8$ in. by
	0.0625 in. sherardized)
154196	Spring lock washer for No. 17376 (21/64 in. by
	37/64 in. by 5/64 in. thick)
1//2161	
1443161	Copper connection strip for two contact fingers
1443143	Copper connection strip for three contact fingers
1432725	Fiber stop block for arc deflector

PARTS OF TYPE B-54 FORM A CONTROLLER

MAIN FINGER BLOCK AND DETAILS (CONTINUED)

Cat.No. 189820 Screw for fastening stop block to finger block (No. 6, 7/8 in. f.h. sherardized) 141224 Screw for fastening finger block to frame (5/16 in18, 1 1/4 in. r.h. sherardized) 145598 Washer for No. 141224 (21/64 in. by 5/8 in. by 0.0625 in. sherardized) 154196 Spring lock washer for No. 141224 (21/64 in. by 37/64 in. by 5/64 in. thick) COMMUTATING, REVERSE OR CUTOUT SWITCH FINGER BLOCKS AND DETAILS 1886860G3 COMMUTATING FINGER BLOCK with finger bases and contact fingers 1886860G1 REVERSE FINGER BLOCK with finger bases and contact fingers 1886860G2 CUTOUT SWITCH FINGER BLOCK with finger bases and contact fingers Commutating finger block with finger bases, without fingers Reverse finger block with finger bases, without fingers
(No. 6, 7/8 in. f.h. sherardized) 141224 Screw for fastening finger block to frame (5/16 in18, 1 1/4 in. r.h. sherardized) 145598 Washer for No. 141224 (21/64 in. by 5/8 in. by 0.0625 in. sherardized) 154196 Spring lock washer for No. 141224 (21/64 in. by 37/64 in. by 5/64 in. thick) COMMUTATING, REVERSE OR CUTOUT SWITCH FINGER BLOCKS AND DETAILS 1886860G3 COMMUTATING FINGER BLOCK with finger bases and contact fingers 1886860G1 REVERSE FINGER BLOCK with finger bases and contact fingers 1886860G2 CUTOUT SWITCH FINGER BLOCK with finger bases and contact fingers 235507 Commutating finger block with finger bases, without fingers Reverse finger block with finger bases, without
141224 Screw for fastening finger block to frame (5/16 in18, 1 1/4 in. r.h. sherardized) 145598 Washer for No. 141224 (21/64 in. by 5/8 in. by 0.0625 in. sherardized) 154196 Spring lock washer for No. 141224 (21/64 in. by 37/64 in. by 5/64 in. thick) COMMUTATING, REVERSE OR CUTOUT SWITCH FINGER BLOCKS AND DETAILS 1886860G3 COMMUTATING FINGER BLOCK with finger bases and contact fingers 1886860G1 REVERSE FINGER BLOCK with finger bases and contact fingers 1886860G2 CUTOUT SWITCH FINGER BLOCK with finger bases and contact fingers 235507 Commutating finger block with finger bases, without fingers 235508 Reverse finger block with finger bases, without
145598 Washer for No. 141224 (21/64 in. by 5/8 in. by 0.0625 in. sherardized) 154196 Spring lock washer for No. 141224 (21/64 in. by 37/64 in. by 5/64 in. thick) COMMUTATING, REVERSE OR CUTOUT SWITCH FINGER BLOCKS AND DETAILS 1886860G3 COMMUTATING FINGER BLOCK with finger bases and contact fingers 1886860G1 REVERSE FINGER BLOCK with finger bases and contact fingers 1886860G2 CUTOUT SWITCH FINGER BLOCK with finger bases and contact fingers 235507 Commutating finger block with finger bases, without fingers 235508 Reverse finger block with finger bases, without
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1886860G2 CUTOUT SWITCH FINGER BLOCK with finger bases and contact fingers 235507 Commutating finger block with finger bases, without fingers 235508 Reverse finger block with finger bases, without
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235507 Commutating finger block with finger bases, without fingers 235508 Reverse finger block with finger bases, without
without fingers 235508 Reverse finger block with finger bases, without
235508 Reverse finger block with finger bases, without
[전 20] 10 전 12 전
LIAS VAU
235509 Cutout switch finger block with finger bases,
without fingers
1886894P3 Commutating finger block
1886894P1 Reverse finger block
1886894P2 Cutout switch finger block
1404076 Finger base
121834 Screw for fastening finger base to block (No. 10, 7/8 in. f.h. sherardized)
#COMMUTATING, REVERSE OR CUTOUT SWITCH CONTACT
Δ FINGER. Cat.No. is for one finger.
1460080 Contact tip
1443171 Copper terminal for contact finger
1445988 Copper connection strip for commutating contact
finger
126905 Cap screw for fastening copper terminal and contact
finger to finger base (14-24, 5/8 in. hex.h.
slot. sherardized)
112305 Cap screw for fastening contact finger to finger
base (14-24, 1/2 in. hex.h. slot. sherardized)
143974 Washer for No. 126905 or 112305 (17/64 in. by 1/2 in. by 0.0625 in. sherardized)
100005
154194 Spring lock washer for No. 126905 or 112305 (17/64 in. by 29/64 in. by 5/64 in. thick)
171415 Screw for fastening commutating finger block to
frame $(5/16 \text{ in.}-18, 15/8 \text{ in. r.h. sherardized})$

COMMUTATING REVERSE OR CUTOUT SWITCH FINGER BLOCKS AND DETAILS (CONTINUED)

Cat.No.	Description
131044	Screw for fastening reverse or cutout switch finger
	block to frame (5/16 in18, 1 1/2 in.
	r.h. sherardized)
145598	Washer for No. 171415 or 131044 (21/64 in. by
	5/8 in. by 0.0625 in. sherardized)
154196	Spring lock washer for No. 171415 or 131044
	(21/64 in. by 37/64 in. by 5/64 in. thick)
1432711	Fiber insulation plate between finger blocks and
	frame
#Per set	of 8 for commutating or reverse finger block
△Per set	of 9 for cutout switch finger block

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General Electric Company

Schenectady, N. Y., U.S.A.