

# General Electric Company

Schenectady, N.Y.

## SUPPLY DEPARTMENT

April, 1914

Bulletin No. 5474I

### PARTS OF TYPE DB-101, FORMS A AND B CIRCUIT BREAKERS

#### TYPE DB-101, FORM A CIRCUIT BREAKER

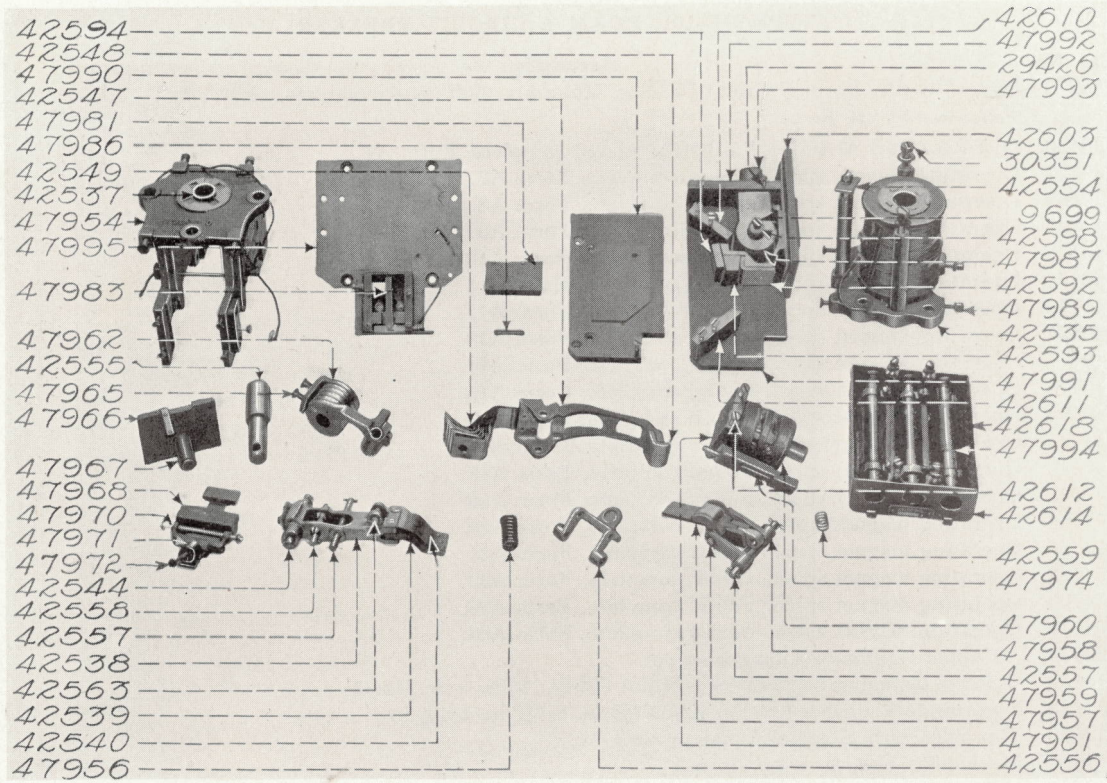
Cat. No.	Description
35270	Type DB-101, Form A circuit breaker, 400 amp., 600 volts, complete.....
	<i>Following are the parts:</i>
30426	OPERATING MAGNET SPOOL, wound complete, Form A6.....
30427	Operating magnet spool, wound complete, Form A7.....
34268	Operating magnet spool, wound complete, Form A8.....
40127	Operating magnet spool, wound complete, Form A9.....
40173	Operating magnet spool, wound complete, Form A10.....
40174	Operating magnet spool, wound complete, Form A11.....
40175	Operating magnet spool, wound complete, Form A12.....
40176	Operating magnet spool, wound complete, Form A13.....
40177	Operating magnet spool, wound complete, Form A14.....
40178	Operating magnet spool, wound complete, Form A15.....
40196	Operating magnet spool, wound complete, Form A16.....
154765	Operating magnet spool, wound complete, Form A17.....
47547	Operating magnet spool, wound complete, Form A18.....
47548	Operating magnet spool, wound complete, Form A19.....
154766	Operating magnet spool, wound complete, Form A20.....
154767	Operating magnet spool, wound complete, Form A21.....
154768	Operating magnet spool, wound complete, Form A22.....
154769	Operating magnet spool, wound complete, Form A23.....
154770	Operating magnet spool, wound complete, Form A24.....
22778	Copper terminal for magnet spool.....
19862	Screw fastening terminal in position (14-24, $\frac{3}{8}$ in. r. h. blued).....
154193	Spring lock washer for No. 19862 ( $\frac{17}{64}$ in. by $\frac{29}{64}$ in. by $\frac{3}{64}$ in.).....
42535	Top plate with pillars and magnet pole.....
47954	Mechanism base plate and frame.....
42537	Bushing for plunger.....
30351	Cap screw fastening No. 47954 to top plate ( $\frac{1}{2}$ in.-13, $1\frac{1}{4}$ in. hex. h. slot.).....
139512	Spring lock washer for No. 30351 ( $\frac{17}{32}$ in. by $1\frac{1}{8}$ in. by 0.0625 in.).....
47955	Large cleat for holding wires to mechanism frame.....
42578	Small cleat for holding wires to mechanism frame.....
14246	Screw fastening No. 47955 in position (10-32, $\frac{5}{8}$ in. f. h.).....
44077	Screw fastening No. 42578 in position (10-32, $\frac{7}{8}$ in. f. h.).....
42538	MAIN CONTACT LEVER, complete, with laminated contact brush and secondary contact spring.....
42539	Laminated contact brush.....
42540	Secondary contact spring with contact tip.....
42541	Shunt guard for No. 42540.....
42542	Screw fastening Nos. 42540, 42541 to lever and laminated contact brush in position (14-24, $1\frac{1}{4}$ in. f. h. blued).....
42543	Washer plate for No. 42542.....

NOTE.—The data in this publication are for the convenience of customers, and every effort is made to avoid error, but this Company does not guarantee their correctness, nor does it hold itself responsible for any errors or omissions in this publication. Subject to change without notice.

\* Supersedes in part Bulletin No. 4581.

54741-2 Parts of Type DB-101, Forms A and B Circuit Breakers

Cat. No.	Description
42544	Hinge pin for main contact lever ( $\frac{1}{2}$ in. by $4\frac{3}{16}$ in. tobin bronze).....
4030	Spring cotter for No. 42544 ( $\frac{3}{32}$ in. by $\frac{5}{8}$ in.).....
47956	Compression spring for main contact lever.....
42546	Fiber button for compression spring.....
42547	SECONDARY CONTACT LEVER, complete, with contact tip.....
42548	Contact tip.....
37711	Screw fastening No. 42548 to lever ( $\frac{5}{16}$ in.-18, $\frac{1}{2}$ in. f. h.).....



42549	Laminated shunt connections (set complete).....
42550	Shunt guard, long.....
42552	Shunt guard, short.....
32810	Screw fastening connections and long guard to secondary contact lever (14-24, $\frac{5}{8}$ in. f. h. blued).....
32817	Screw fastening connections and short guard to main contact lever (14-24, $\frac{1}{2}$ in. f. h. blued).....
42551	Washer plate for No. 32810.....
42553	Washer plate for No. 32817.....
42554	Clamping plate for laminated shunt connections to mechanism plate.....
42556	Intermediate contact lever.....
42555	Plunger.....
42557	Hinge pin for No. 42556 ( $\frac{7}{16}$ in. by $4\frac{3}{16}$ in. tobin bronze).....
42558	Hinge pin for levers and plunger ( $\frac{7}{16}$ in. by $3\frac{5}{8}$ in.).....
4030	Spring cotter for Nos. 42557, 42558 ( $\frac{3}{32}$ in. by $\frac{5}{8}$ in.).....
42559	Compression spring for intermediate and secondary contact levers.....
42560	Fiber button for spring.....
47957	Toggle lever, complete, with armature.....

Cat. No.	Description
47958	Toggle arm.....
42563	Pin for toggle and main contact levers ( $\frac{7}{16}$ in. by $1\frac{9}{16}$ in. tobin bronze).....
47959	Pin for toggle lever and toggle arm ( $\frac{7}{16}$ in. by $2\frac{3}{4}$ in. long tobin bronze).....
42557	Hinge pin for toggle arm ( $\frac{7}{16}$ in. by $4\frac{13}{16}$ in. long tobin bronze).....
4030	Spring cotter for Nos. 42563, 47959, 42557 ( $\frac{3}{32}$ in. by $\frac{5}{8}$ in.).....
12570	Set screw for No. 42557 ( $\frac{5}{16}$ in.-18, $\frac{3}{4}$ in. headless, blued, sp'l).....
25483	Check nut for No. 42570 ( $\frac{5}{16}$ in.-18, hex. blued, cham. one side).....
47960	RETAINING COIL, complete.....
22778	Copper terminal for retaining coil.....
19682	Screw fastening terminal in position (14-24, $\frac{3}{8}$ in. r. h. blued).....
154193	Spring lock washer for No. 19682 ( $\frac{11}{16}$ in. by $\frac{29}{64}$ in. by $\frac{3}{4}$ in.).....
47961	Retaining coil frame, complete, with core.....
42612	Screw fastening No. 47961 to mechanism frame ( $\frac{5}{16}$ in.-18, 1 in. f. h. brass).....
47962	OVERLOAD TRIPPING COIL, complete, with terminal.....
47963	Bushing for terminal.....
42573	Binding screw for terminal ( $\frac{5}{16}$ in.-18, 1 in. fill h. blued).....
42575	Insulation for overload trip coil terminal.....
42576	Screw fastening No. 42575 to mechanism frame ( $\frac{5}{16}$ in.-18, $\frac{3}{4}$ in. f. h. blued).....
47964	Large screw fastening overload trip coil in position ( $\frac{3}{8}$ in.-16, $\frac{3}{4}$ in. f. h. blued).....
47965	Small screw fastening overload trip coil in position ( $\frac{5}{16}$ in.-18, 1 in. f. h. blued).....
47966	Back plate, with calibrating plate and core, for overload trip coil.....
47967	Insulation sleeve for overload trip coil core.....
307	Screw fastening No. 47966 to mechanism frame (14-24, 1 in. f. h.).....
47968	Tripping armature, complete.....
47969	Insulation plate with rivets.....
47970	Fulcrum pin for No. 47968 ( $\frac{11}{16}$ in. by $4\frac{7}{8}$ in. tobin bronze).....
4030	Spring cotter for No. 47970 ( $\frac{3}{32}$ in. by $\frac{5}{8}$ in.).....
47971	Calibrating spring with holder.....
47972	Calibrating screw with thumbnut.....
47973	Spring cotter for No. 47971 ( $\frac{1}{8}$ in. by $2\frac{1}{4}$ in.).....
47974	Tripping rod.....
47975	Stop pin for No. 47968 ( $1\frac{1}{4}$ in. by $4\frac{1}{2}$ in. brass).....
47978	RETAINING COIL SWITCH CHUTE, complete.....
29426	Screw fastening chute in position (10-32, $1\frac{1}{4}$ in. f. h.).....
47977	Top plate.....
47978	Bottom plate.....
47979	Side plate (right-hand).....
47980	Side plate (left-hand).....
47981	Front plate.....
47982	Guide block with bushing.....
14246	Screw fastening top plate to side plates (10-32, $\frac{5}{8}$ in. f. h.).....
10076	Screw fastening bottom plate to side plates (10-32, $\frac{3}{8}$ in. f. h.).....
42613	Screw fastening front plate and guide block to side plates (10-32, 1 in. f. h.).....
47983	Retaining coil switch terminal block, upper, complete, with contact spring and insulation.....
47984	Retaining coil switch terminal block, lower.....
47985	Contact spring with tip, insulation and rivets, for No. 47983.....
22778	Copper terminal for Nos. 47983, 47984.....
37387	Nut for Nos. 47983, 47984 (14-24, $\frac{1}{16}$ in. thick, $\frac{3}{8}$ in. across flats, hex. brass, cham. both sides).....
154193	Spring lock washer for No. 37387 ( $\frac{17}{64}$ in. by $\frac{29}{64}$ in. by $\frac{3}{4}$ in.).....
47986	Tripping pin.....
47987	BLOWOUT COIL, complete, with terminal, support and contacts.....
42591	Binding screw for blowout coil terminal ( $\frac{5}{16}$ in.-18, $\frac{3}{4}$ in. fill h. blued).....
42592	Copper contact.....
1887	Screw fastening No. 42592 in position (14-24, $\frac{3}{4}$ in. f. h.).....
42593	Carbon contact.....
42594	Clamp for carbon contact.....

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54741-4 Parts of Type DB-101, Forms A and B Circuit Breakers

Cat. No.	Description
42595	Screw fastening No. 42594 in position ( $\frac{5}{16}$ in.-18, $\frac{5}{8}$ in. f. h. blued)
10576	Screw fastening blowout coil to arc chute ( $\frac{5}{16}$ in.-18, 1 in. f. h.)
42596	Insulation shield for No. 10576
14246	Screw fastening No. 42596 to arc chute (10-32, $\frac{5}{8}$ in. f. h.)
42597	POLE PIECE, two parts, with blowout coil core and cap screw
42598	Blowout coil core
42599	Insulation sleeve for blowout coil core
9699	Cap screw for No. 42597 ( $\frac{3}{8}$ in.-16, $\frac{3}{4}$ in. f. h.)
3841	Screw fastening pole piece to arc chute (10-32, $\frac{1}{2}$ in. f. h.)
47988	ARC CHUTE, complete, includes screws and washers for fastening in position
47989	Cap screw fastening chute to top plate ( $\frac{3}{8}$ in.-16, $1\frac{1}{4}$ in. hex. h. slot. blued)
42601	Cap screw fastening chute to mechanism frame ( $\frac{3}{8}$ in.-16, $1\frac{1}{4}$ in. hex. h. slot, brass)
139517	Lock washer for Nos. 47989, 42601 ( $\frac{3}{32}$ in. by $\frac{3}{32}$ in. by 0.0625 in.)
42603	Back plate
47990	Side plate (right-hand)
47991	Side plate (left-hand)
47992	Upper end plate, with bushing
47993	Bushing for No. 47992
42610	Arcing plate, upper
42611	Arcing plate, lower
10576	Screw fastening side plate to mechanism frame and arcing plate in position ( $\frac{5}{16}$ in.-18, 1 in. f. h.)
29426	Screw fastening back plate, upper end plate and side plates together (10-32, $1\frac{1}{4}$ in. f. h.)
54314	Type T-120, Form D8 rheostat, complete
42614	End plate (right-hand)
42615	End plate (left-hand) with latch for cover
42616	Latch with rivets
10110	Spring cotter for latch ( $\frac{5}{16}$ in. by $\frac{1}{2}$ in.)
42617	Stud for end plates (14-24, $9\frac{1}{4}$ in. long)
44049	Nut for stud (14-24, hex, blued, cham. one side)
42618	Cover for No. 54314
47994	Resistance tube, complete
42620	Connection strip for resistance tubes
19682	Binding screw for No. 42620 (14-24, $\frac{3}{8}$ in. r. h. blued)
154193	Spring lock washer for No. 19682 ( $\frac{17}{64}$ in. by $\frac{29}{64}$ in. by $\frac{3}{16}$ in.)
42621	Screw fastening rheostat in position ( $\frac{3}{8}$ in.-16, 1 in. fill. h. blued)
139517	Spring lock washer for No. 42621 ( $\frac{13}{32}$ in. by $\frac{33}{32}$ in. by 0.0625 in.)
47995	Insulation for back of rheostat
322	Screw fastening No. 47995 to top plate and mechanism frame ( $\frac{3}{8}$ in.-16, 1 in. f. h.)

**TYPE DB-101, FORM B CIRCUIT BREAKER**

40172	Type DB-101, Form B circuit breaker, 300 amp., 600-1200 volts, complete <i>Following are the parts of the Type DB-101, Form B Circuit Breaker which differ from those of the Type DB-101, Form A:</i>
48048	MECHANISM BASE PLATE and frame
48049	Support for arc chute
9699	Screw fastening No. 48049 to mechanism frame ( $\frac{3}{8}$ in.-16, $\frac{3}{4}$ in. f. h.)
42545	Compression spring for main contact lever
42561	Toggle lever with catch plate
42562	Catch plate with rivets
42564	Tripping arm with catch
42565	Catch with rivets
42566	Toggle arm for tripping lever
42567	Hinge pin for toggle lever and toggle arm ( $\frac{7}{16}$ in. by $2\frac{3}{16}$ in. tobin bronze)
42557	Hinge pin for toggle arm and tripping arm ( $\frac{7}{16}$ in. by $4\frac{13}{16}$ in. tobin bronze)
42568	Washer for No. 42567 ( $\frac{13}{32}$ in. by $\frac{7}{8}$ in. by 0.075 in. brass)

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Parts of Type DB-101, Forms A and B Circuit Breakers 54741-5

Cat. No.	Description
42571	Spring for toggle arm and tripping arm.
48973	OVERLOAD TRIPPING COIL, complete, with terminal.
42574	Screw fastening No. 48973 to coil support (10-32, $\frac{7}{8}$ in. f. h. brass).
10576	Screw fastening overload tripping coil terminal to insulation block ( $\frac{5}{16}$ in.-18, 1 in. f. h.).
48974	SHUNT TRIPPING COIL, complete.
44086	Copper terminal for No. 48974.
35807	Screw fastening terminal in position (10-32, $\frac{3}{8}$ in. r. h. blued).
148636	Spring lock washer for No. 35807 ( $\frac{13}{32}$ in. by $\frac{25}{64}$ in. by 0.031 in.).
42579	Core for overload tripping coil, sherardized.
42580	Insulation sleeve for No. 42579.
48975	Washer for No. 42579 (1 $\frac{1}{16}$ in. by 2 $\frac{1}{2}$ in. by $\frac{1}{8}$ in. thick, copper).
48976	Core for shunt tripping coil.
48977	Nut for No. 48976 ( $\frac{5}{8}$ in.-11, $\frac{1}{4}$ in. thick, hex. cham. one side).
48978	Support for overload tripping coil, with pole piece for shunt tripping coil.
322	Screw fastening No. 48978 to mechanism frame ( $\frac{3}{8}$ in.-16, 1 in. f. h.).
48979	Plunger for tripping lever.
48980	Collar for plunger.
48981	Sleeve for plunger.
10258	Screw fastening Nos. 48980, 48981 to pole pieces (6-23, $\frac{1}{2}$ in. r. h. blued).
48983	Tripping lever.
48984	Hinge pin for tripping lever and plunger ( $\frac{5}{16}$ in. by 1 $\frac{11}{16}$ in. long).
42585	Hinge pin for tripping lever and armature ( $\frac{5}{16}$ in. by 4 $\frac{3}{8}$ in. long tobin bronze).
4030	Spring cotter for Nos. 48984, 42585 ( $\frac{3}{32}$ in. by $\frac{5}{8}$ in.).
48985	Compression spring for tripping lever.
48986	Armature, complete.
42588	Calibrating spring with holder.
42589	Calibrating screw with thumbnut.
42586	Stop for calibrating screw, complete, with calibrating plate.
42587	Calibrating plate.
7101	Screw fastening No. 42587 to stop (6-32, $\frac{1}{4}$ in. r. h. brass).
307	Screw fastening No. 42586 to mechanism frame (14-24, 1 in. f. h.).
48050	BLOWOUT COIL, complete, with terminal, support and contacts.
48051	Pole piece, two parts, with blowout coil core and cap screw.
48052	Insulation for pole piece (right-hand).
48053	Insulation for pole piece (left-hand).
11096	Screw fastening Nos. 48052, 48053 to arc chute (14-24, $\frac{5}{8}$ in. r. h. blued).
9699	Screw fastening No. 48049 to mechanism frame ( $\frac{3}{8}$ in.-16, $\frac{3}{4}$ in. f. h.).
48054	ARC CHUTE, complete, includes screws and washers for fastening in position.
56889	Cap screw fastening chute to support ( $\frac{3}{8}$ in.-16, $\frac{7}{8}$ in. hex. h. slot. brass).
48055	Back plate.
48056	Side plate (right-hand) with bushing and set screw.
48057	Side plate (left-hand) with plug and set screw.
42606	Bushing for No. 48056.
42607	Plug for No. 48057.
42608	Set screw for side plates (14-24, 1 $\frac{3}{16}$ in. pointed, headless, sp'l).
42609	Upper end plate.
48987	Insulation for back of rheostat.

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54741-6 Parts of Type DB-101, Forms A and B Circuit Breakers

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# GENERAL ELECTRIC COMPANY

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