

General Electric Company

Schenectady, N.Y.

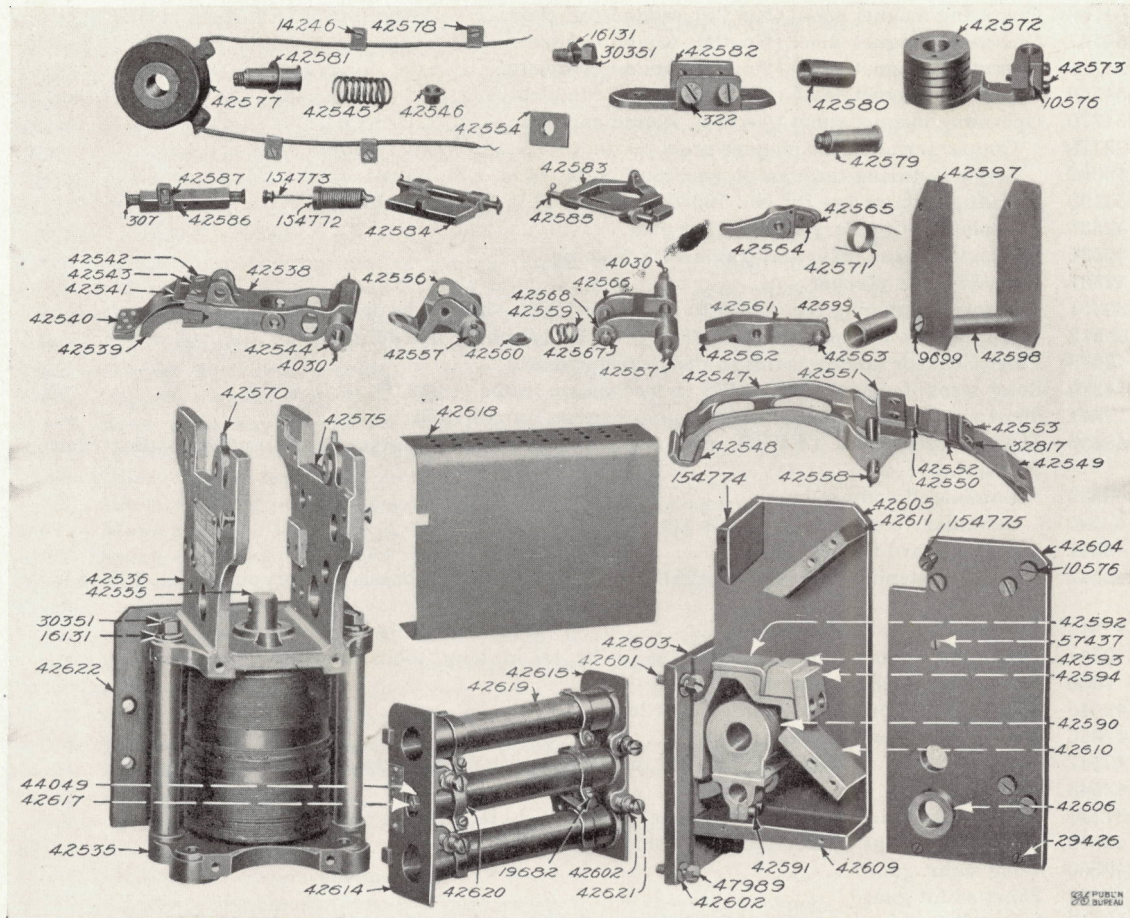
SUPPLY DEPARTMENT

February, 1915

* Bulletin No. 54742A

PARTS OF TYPE DB-102, FORMS A, B, D, F, G, H, J, K, L, M, N AND P CIRCUIT BREAKERS

TYPE DB-102 FORM A CIRCUIT BREAKER



Cat. No.

Description

- All Type DB-102, Form A Circuit Breakers are identical with the exception of the operating magnet spools which are designated by spool numbers; these numbers follow the Form letter in the name plate rating.
- 30426 OPERATING MAGNET SPOOL (No. 6), wound complete.....
 - 30427 Operating magnet spool (No. 7), wound complete.

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 Bulletin No. 54742.

GENERAL ELECTRIC COMPANY

54742A-2 Parts of Type DB-102 Forms A, B, D, F, G, H, J, K, L, M, N and P Circuit Breakers

Cat. No.	Description
34268	Operating magnet spool (No. 8), wound complete.
40127	Operating magnet spool (No. 9), wound complete.
40173	Operating magnet spool (No. 10), wound complete.
40174	Operating magnet spool (No. 11), wound complete.
40175	Operating magnet spool (No. 12), wound complete.
40176	Operating magnet spool (No. 13), wound complete.
40177	Operating magnet spool (No. 14), wound complete.
40178	Operating magnet spool (No. 15), wound complete.
40196	Operating magnet spool (No. 16), wound complete.
154765	Operating magnet spool (No. 17), wound complete.
47547	Operating magnet spool (No. 18), wound complete.
47548	Operating magnet spool (No. 19), wound complete.
154766	Operating magnet spool (No. 20), wound complete.
154767	Operating magnet spool (No. 21), wound complete.
154768	Operating magnet spool (No. 22), wound complete.
154769	Operating magnet spool (No. 23), wound complete.
154770	Operating magnet spool (No. 24), wound complete.
22778	Copper terminal for magnet spool.
19682	Screw fastening terminal in position (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 $\frac{3}{64}$ in. thick).
42535	Top plate with pillars and magnet pole.
42536	Mechanism base plate and frame with bushing.
42537	Bushing for plunger.
30351	Cap screw fastening No. 42536 to top plate ($\frac{1}{2}$ in.-13, $1\frac{1}{4}$ in. hex. h. slot).
139512	Spring lock washer for No. 30351 ($\frac{1}{2}$ in. by $1\frac{1}{2}$ in. by 0.0625 in.)
42578	Fiber cleat for holding wires to mechanism frame.
14246	Long screw fastening No. 42578 to mechanism frame (10-32, $\frac{5}{8}$ in. f. h.)
3841	Short screw fastening No. 42578 to mechanism frame (10-32, $\frac{1}{2}$ 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 tip.
42541	Shunt guard for No. 42540.
42542	Screw fastening Nos. 42540, 42541 to lever and contact brush in position (14-24, $1\frac{1}{4}$ in. f. h. blued).
42543	Washer plate for No. 42542.
42544	Hinge pin for main contact lever ($\frac{1}{2}$ in. by $4\frac{1}{8}$ in. long, tobin bronze)
4030	Spring cotter for No. 42544 ($\frac{3}{32}$ in. by $\frac{5}{8}$ in.)
42545	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	Long shunt guard.
42552	Short shunt guard.
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	Plate for clamping laminated shunt connections to mechanism plate.
42555	Plunger.
42556	Supporting seat for compression spring.
42557	Bearing pin for No. 42556 ($\frac{7}{16}$ in. by $4\frac{1}{8}$ in. long, tobin bronze)
42558	Bearing pin for levers and plunger ($\frac{7}{16}$ in. by $3\frac{5}{8}$ in. long)
4030	Spring cotter for Nos. 42557, 42558 ($\frac{3}{32}$ in. by $\frac{5}{8}$ in.)
42559	Compression spring for secondary contact lever.
42560	Fiber button for spring.

Cat. No.	Description
42561	Toggle lever with catch plate.
42562	Catch plate with rivets.
42564	Tripping lever with catch.
42565	Catch with rivets.
42566	Toggle arm for tripping lever.
42563	Hinge pin for toggle lever and main contact lever ($\frac{7}{16}$ in. by $1\frac{9}{16}$ in. long, tobin bronze).
42567	Hinge pin for toggle arm and toggle lever ($\frac{7}{16}$ in. by $2\frac{3}{16}$ in. tobin bronze).
42557	Hinge pin for toggle arm and tripping lever ($\frac{7}{16}$ in. by $4\frac{13}{16}$ in. tobin bronze).
42568	Washer for No. 42567 ($\frac{15}{32}$ in. by $\frac{7}{8}$ in. by 0.075 in. brass).
4030	Spring cotter for Nos. 42563, 42567, 42557 ($\frac{3}{32}$ in. by $\frac{5}{8}$ in.).
42570	Set screw for No. 42557 ($\frac{5}{16}$ in.-18, $\frac{3}{4}$ in. headless, blued, sp'1).
42571	Spring for toggle arm and tripping lever.
42572	OVERLOAD TRIPPING COIL, complete, with terminal and bushings.
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).
42574	Screw fastening No. 42572 to coil support (10-32, $\frac{7}{8}$ in. f. h. brass).
10576	Screw fastening overload trip coil terminal to insulation block ($\frac{5}{16}$ in.-18, 1 in. f. h.).
42577	SHUNT TRIPPING COIL, complete.
22778	Copper terminal.
19682	Screw fastening terminal in position (14-24, $\frac{3}{8}$ in. r. h. blued).
154193	Spring lock washer for No. 19682 ($\frac{11}{64}$ in. by $\frac{29}{64}$ in. by $\frac{3}{64}$ in. thick).
42579	Core for overload and shunt tripping coils.
42580	Insulation sleeve for core for No. 42572.
42581	Washer for core for No. 42577 ($\frac{7}{8}$ in. by $1\frac{3}{8}$ in. by 0.034).
42582	Support for coils.
322	Screw fastening support to mechanism frame ($\frac{3}{8}$ in.-16, 1 in. f. h.).
42583	Overload coil trip lever, complete, with armature.
42584	Shunt coil trip lever, complete, with armature.
42585	Hinge pin for armature ($\frac{5}{16}$ in. by $4\frac{13}{16}$ in. long, tobin bronze).
154771	Washer for No. 42585 ($\frac{21}{64}$ in. by $\frac{5}{8}$ in. by 0.007 in. hard copper).
4030	Spring cotter for No. 42585 ($\frac{3}{32}$ in. by $\frac{5}{8}$ in.).
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.).
154772	Calibrating spring with holder.
154773	Calibrating screw with thumbnut.
42590	BLOWOUT COIL, complete, with support, terminal 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.
42595	Screw fastening clamp to coil support ($\frac{5}{16}$ in.-18, $\frac{5}{8}$ in. f. h. blued).
10576	Screw fastening blowout coil in position 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, screw and insulation sleeve.
42598	Blowout coil core.
42599	Insulation sleeve for blowout coil core.
9699	Screw for No. 42597 and core ($\frac{3}{8}$ in.-16, $\frac{3}{4}$ in. f. h.).
3841	Screw fastening pole piece to arc chute (10-32, $\frac{1}{2}$ in. f. h.).
42600	ARC CHUTE, complete, includes screws and washers for fastening in position.
47989	Cap screw fastening arc chute to top plate ($\frac{3}{8}$ in.-16, $1\frac{1}{4}$ in. hex. h. slot. blued).
42601	Cap screw fastening arc chute to mechanism frame ($\frac{3}{8}$ in.-16, $1\frac{1}{4}$ in. hex. h. slot. brass).

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54742A-4 Parts of Type DB-102 Forms A, B, D, F, G, H, J, K, L, M, N and P Circuit Breakers

Cat. No.	Description
154197	Spring lock washer for Nos. 47989, 42601 ($\frac{13}{32}$ in. by $\frac{25}{32}$ in. by $\frac{3}{32}$ in. thick)
42603	Back plate
42604	* Side plate, right-hand, with bushing and set screw
42605	* Side plate, left-hand, with plug and set screw
42606	Bushing for No. 42604
42607	Bushing for No. 42605
42608	Set screw (14-24, $1\frac{3}{16}$ in. pointed, headless, sp'1)
42609	Upper end plate
42610	Arcing plate, upper
42611	Arcing plate, lower
154774	Stop for secondary contact lever
10576	Screw fastening Nos. 42604, 42605 to Nos. 42610, 42611 ($\frac{5}{16}$ in.-18, 1 in. f. h.)
29426	Screw fastening Nos. 42603, 42604, 42605 to upper end plate (10-32, $1\frac{1}{4}$ in. f. h.)
154775	Screw fastening No. 154774 in position ($\frac{5}{16}$ in.-18, $1\frac{1}{2}$ in. r. h. brass)
3882	Screw for mechanism frame and arc chute sides ($\frac{5}{16}$ in.-18, $1\frac{3}{4}$ in. r. h. brass)
154195	Spring lock washer for Nos. 154775, 3882 ($\frac{21}{64}$ in. by $\frac{37}{64}$ in. by $\frac{3}{64}$ in. thick, japanned)
56078	Type T-126, 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 No. 42616 ($\frac{5}{8}$ 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, $\frac{3}{16}$ in. thick, $\frac{1}{2}$ in. across flats, hex. cham. one side, blued)
42618	Cover for No. 56078
42619	Resistance tube, complete
42620	Connection strip for resistance tubes
19682	Binding screw for No. 42620 (14-24, $\frac{3}{8}$ in. r. h. blued)
42622	Insulation back for rheostat
42621	Screw fastening rheostat in position to back ($\frac{3}{8}$ in.-16, 1 in. fill. h. blued)
139517	Spring lock washer for No. 42621 ($\frac{3}{32}$ in. by $\frac{25}{32}$ in. by 0.0625 in.)
322	Screw fastening No. 42622 to top plate and mechanism frame ($\frac{3}{8}$ in.-16, 1 in. f. h.)

TYPE DB-102 FORM B CIRCUIT BREAKER

Following are the parts of the DB-102-B circuit breaker which differ from those of the DB-102-A:

48048	MECHANISM BASE PLATE and frame with bushing
48049	Support for arc chute
9699	Screw fastening No. 48049 to mechanism frame ($\frac{3}{8}$ in.-16, $\frac{3}{4}$ in. f. h.)
48050	BLOWOUT COIL, complete, with support, terminal and contacts
48051	Pole piece, two parts, with blowout coil core, screw and insulation sleeve
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)
48054	ARC CHUTE, complete, includes screws and washers for fastening in position
10362	Cap screw fastening chute to support ($\frac{3}{8}$ in.-16, $\frac{1}{8}$ in. hex. h. slot)
154777	Washer for cap screw fastening arc chute in position
154778	Insulation cap for No. 10362
48055	Back plate
48056	* Side plate, right-hand, with bushing and set screw
48057	* Side plate, left-hand, with plug and set screw
154779	Overload tripping coil, complete, with terminal and bushing

* Facing the circuit breaker in position, on the arc chute side.

Parts of Type DB-102 Forms A, B, D, F, G, H, J, K, L, M, N and P Circuit Breakers 54742A-5

Cat. No.	Description
TYPE DB-102 FORM D CIRCUIT BREAKER	
<i>Following are the parts of the DB-102-D circuit breaker which differ from those of the DB-102-A:</i>	
NOTE.—In the DB-102-D circuit breaker the rheostat is omitted.	
154781	Top plate with pillars and magnet pole.....
154782	Mechanism base plate and frame with bushing.....
154783	Support for tripping coils.....
154784	SHUNT TRIPPING COIL, complete.....
154785	Core for shunt tripping coil, sherardized.....
TYPE DB-102 FORM F CIRCUIT BREAKER	
<i>Following are the parts of the DB-102-F circuit breaker which differ from those of the DB-102-A:</i>	
48048	MECHANISM BASE PLATE and frame with bushing.....
48049	Support for arc chute.....
9699	Screw fastening No. 48049 to mechanism frame ($\frac{3}{8}$ in.—16, $\frac{3}{4}$ in. f. h.).....
154787	Overload tripping coil, complete, with terminal and bushing.....
153862	Bushing for terminal.....
154788	BLOWOUT COIL, complete, with support, terminal and contacts.....
48051	POLE PIECE, two parts, with blowout coil core, screw and insulation sleeve.....
48052 *	Insulation plate for pole piece, right-hand.....
48053 *	Insulation plate for pole piece, left-hand.....
11096	Screw fastening Nos. 48052, 48053 to arc chute (14-24, $\frac{5}{8}$ in. f. h. blued).....
154790	ARC CHUTE, complete, includes screws and washers for fastening in position.....
154777	Washer for cap screws fastening arc chute in position.....
154778	Insulation cap for cap screws fastening arc chute in position.....
48055	Back plate.....
154792	* Side plate, right-hand.....
154793	* Side plate, left-hand.....
154794	Upper end plate with bushing.....
154795	Bushing with pin.....
154796	Insulation back for rheostat.....
TYPE DB-102 FORM G CIRCUIT BREAKER	
<i>Following are the parts of the DB-102-G circuit breaker which differ from those of the DB-102-A:</i>	
NOTE.—In the DB-102-G circuit breaker the rheostat is omitted.	
154781	Top plate with pillars and magnet pole.....
154782	Mechanism base plate and frame with bushing.....
154783	Support for tripping coils.....
154784	SHUNT TRIPPING COIL, complete.....
154785	Core for shunt tripping coil, sherardized.....
154787	OVERLOAD TRIPPING COIL, complete, with terminal and bushing.....
153862	Bushing for terminal.....
154788	BLOWOUT COIL, complete, with support, terminal and contacts.....
48051	POLE PIECE, two parts, with blowout coil core, screw and insulation sleeve.....
48052 *	Insulation plate for pole piece, right-hand.....
48053 *	Insulation plate for pole piece, left-hand.....
11096	Screw fastening Nos. 48052, 48053 to arc chute (14-24, $\frac{5}{8}$ in. f. h. blued).....
154790	ARC CHUTE, complete, includes screws and washers for fastening in position.....
154777	Washer for cap screws fastening arc chute in position.....
154778	Insulation cap for cap screws fastening arc chute in position.....
48055	Back plate.....
154792	* Side plate, right-hand.....
154793	* Side plate, left-hand.....
154794	Upper end plate with bushing.....
154795	Bushing with pin.....

* Facing the circuit breaker in position, on the arc chute side.

54742A-6 Parts of Type DB-102 Forms A, B, D, F, G, H, J, K, L, M, N and P Circuit Breakers

Cat. No.	Description
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TYPE DB-102 FORM H CIRCUIT BREAKER

Following are the parts of the DB-102-H circuit breaker which differ from those of the DB-102-A:

NOTE.—In the DB-102-H circuit breaker the rheostat is omitted. This Form is standard for 600 volt equipments.

154799	SHUNT TRIPPING COIL, complete.....
154800	Core for shunt tripping coil, sherardized.....
42579	Core for overload tripping coil, sherardized.....
154801	Support for coils (see illustration page 13).....
154802	Overload coil trip lever, complete, with armature.....
154803	Shunt coil trip lever, complete, with armature.....
154804	Coil spring for No. 154803.....
154805	Stop for calibrating screw, complete, with calibrating plate and support.....
48052 *	Insulation plate for pole piece, right-hand.....
48053 *	Insulation plate for pole piece, left-hand.....
11096	Screw fastening Nos. 48052, 48053 to arc chute (14-24, 5/8 in. f. h. blued).....
154790	ARC CHUTE, complete, includes screws and washers for fastening in position.....
154777	Washer for cap screws fastening arc chute in position.....
154778	Insulation cap for cap screws fastening arc chute in position.....
48055	Back plate.....
154792 *	Side plate, right-hand.....
154793 *	Side plate, left-hand.....
154794	Upper end plate with bushing.....
154795	Bushing with pin.....

TYPE DB-102 FORM J CIRCUIT BREAKER

Following are the parts of the DB-102-J circuit breaker which differ from those of the DB-102-A:

NOTE.—In the DB-102-J circuit breaker the rheostat is omitted.

154807	Top plate with pillars and magnet pole.....
154799	SHUNT TRIPPING COIL, complete.....
154800	Core for shunt tripping coil, sherardized.....
42579	Core for overload tripping coil, sherardized.....
154801	Support for coils (see illustration page 13).....
154802	Overload coil trip lever, complete, with armature.....
154803	Shunt coil trip lever, complete, with armature.....
154804	Coil spring for No. 154803.....
154805	Stop for calibrating screw, complete, with calibrating plate and support.....

TYPE DB-102 FORM K CIRCUIT BREAKER

Following are the parts of the DB-102-K circuit breaker which differ from those of the DB-102-A:

NOTE.—In the DB-102-K circuit breaker the rheostat and trip coils are omitted.

48048	MECHANISM BASE PLATE and frame.....
48049	Support for arc chute.....
9699	Screw fastening No. 48049 to mechanism frame (3/8 in.-16, 3/4 in. f. h.).....
154809	MAIN CONTACT LEVER, complete, with laminated contact brush and secondary contact spring.....
154788	BLOWOUT COIL, complete, with support, terminal and contacts.....
48051	POLE PIECE, two parts, with blowout coil core, screw and insulation sleeve.....

* Facing the circuit breaker in position, on the arc chute side.

Parts of Type DB-102 Forms A, B, D, F, G, H, J, K, L, M, N and P Circuit Breakers 54742A-7

Cat. No.	Description
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).....
154790	ARC CHUTE, complete, includes screws and washers for fastening in position.....
154777	Washer for cap screws fastening arc chute in position.....
154778	Insulation cap for cap screws fastening arc chute in position.....
48055	Back plate.....
154792	* Side plate, right-hand.....
154793	* Side plate, left-hand.....
154794	Upper end plate with bushing.....
154795	Bushing with pin.....
36039	Copper socket terminal for mechanism base plate.....
153862	Copper terminal for outside leads.....
154810	Operating arm for interlock.....
51633	Screw fastening No. 154810 to main contact lever (14-24, $\frac{3}{4}$ in. r. h.).....
154193	Spring lock washer for No. 51633 ($\frac{17}{64}$ in. by $\frac{29}{64}$ in. by $\frac{3}{64}$ in. thick).....
111113	INTERLOCK FRAME.....
111114	Insulation plate for back of interlock frame.....
19669	Screw fastening Nos. 111113, 111114 in position to support (14-24, $1\frac{1}{4}$ in. r. h.).....
110789	Washer for No. 19669 ($\frac{11}{64}$ in. by $\frac{1}{2}$ in. by 0.014 in.).....
154193	Spring lock washer for No. 19669 ($\frac{17}{64}$ in. by $\frac{29}{64}$ in. by $\frac{3}{64}$ in. thick).....
144075	Contact post.....
133451	Screw fastening No. 144075 in position (12-24, $\frac{3}{4}$ in. r. h. sherardized).....
110789	Washer for No. 133451 ($\frac{11}{64}$ in. by $\frac{1}{2}$ in. by 0.014 in.).....
139520	Spring lock washer for No. 133451 ($\frac{17}{64}$ in. by $\frac{29}{64}$ in. by 0.031 in.).....
144076	Contact plate for contact post.....
44086	Copper terminal, right-hand, for contact post.....
111129	Copper terminal, left-hand, for contact post.....
143528	Screw fastening terminal to contact post (10-32, $\frac{5}{16}$ in. r. h. sherardized).....
148636	Spring lock washer for No. 143528 ($\frac{13}{64}$ in. by $\frac{25}{64}$ in. by 0.031 in.).....
111131	CONTACT DISK, complete, with contact tips.....
111133	Contact tip.....
154811	Pressure spring for contact disk.....
133453	Rod (stamped A1, sherardized) for contact disk.....
46796	Brass collar for contact disk rod ($\frac{5}{16}$ in. long).....
111148	Brass collar for contact disk rod ($\frac{1}{2}$ in. long).....
133469	Spring cotter for No. 46796 ($\frac{1}{8}$ in. by $\frac{7}{8}$ in. sherardized).....
133468	Spring cotter for No. 111148 ($\frac{1}{8}$ in. by $\frac{3}{4}$ in. sherardized).....
111150	Bracket with operating link for contact disk rod.....
133469	Spring cotter for link and contact disk rod ($\frac{1}{8}$ in. by $\frac{7}{8}$ in. sherardized).....
133470	Screw fastening No. 111150 in position (12-24, $\frac{5}{8}$ in. r. h. sherardized).....
110789	Washer for No. 133470 ($\frac{17}{64}$ in. by $\frac{1}{2}$ in. by 0.014 in.).....
139520	Spring lock washer for No. 133470 ($\frac{17}{64}$ in. by $\frac{29}{64}$ in. by 0.031 in.).....
154812	Insulating crosshead with pin, for contact disk rod.....
127354	Adjusting nut for contact disk rod ($\frac{5}{16}$ in.-18, $\frac{3}{16}$ in. thick, $\frac{19}{32}$ in. across flats, hex. cham. one side, sherardized).....
133472	Washer for contact disk rod ($\frac{21}{64}$ in. by $\frac{5}{8}$ in. by 0.034 in. sherardized).....
154195	Spring lock washer for No. 127354 ($\frac{21}{64}$ in. by $\frac{37}{64}$ in. by $\frac{3}{64}$ in. thick).....
154813	Insulation support, upper, for interlock frame.....
154814	Insulation support, lower, for interlock frame.....
154815	Subbase for interlock frame.....
19988	Screw fastening Nos. 154813, 154814, 154815 to top plate and mechanism base plate ($\frac{3}{8}$ in.-16, $1\frac{1}{2}$ in. r. h.).....
60195	Washer for No. 19988 ($\frac{13}{32}$ in. by 1 in. by 0.0625 in.).....
139517	Spring lock washer for No. 19988 ($\frac{13}{32}$ in. by $\frac{35}{32}$ in. by 0.0625 in.).....

* Facing the circuit breaker in position, on the arc chute side.

54742A-8 Parts of Type DB-102 Forms A, B, D, F, G, H, J, K, L, M, N and P Circuit Breakers

Cat. No. Description

TYPE DB-102 FORM L CIRCUIT BREAKER

Following are the parts of the DB-102-L circuit breaker which differ from those of the DB-102-A:

NOTE.—In the DB-102-L circuit breaker the rheostat is omitted.

48048	MECHANISM BASE PLATE and frame with bushing
48049	Support for arc chute
9699	Screw fastening No. 48049 to mechanism frame ($\frac{3}{8}$ in.—16, $\frac{3}{4}$ in. f. h.)
154787	OVERLOAD TRIPPING COIL, complete, with terminal and bushing
153862	Bushing for terminal
154788	BLOWOUT COIL, complete, with support, terminal and contacts
48051	POLE PIECE, two parts, with blowout coil core, screw and insulation sleeve
48052 *	Insulation plate for pole piece, right-hand
48053 *	Insulation plate for pole piece, left-hand
11096	Screw fastening Nos. 48052, 48053 to arc chute (14-24, $\frac{5}{8}$ in. f. h. blued)
154790	ARC CHUTE, complete, includes screws and washers for fastening in position
154777	Washer for cap screws fastening arc chute in position
154778	Insulation cap for cap screws fastening arc chute in position
48055	Back plate
154792	* Side plate, right-hand
154793	* Side plate, left-hand
154794	Upper end plate with bushing
154795	Bushing with pin
154810	Operating arm for interlock
51633	Screw fastening No. 154810 to main contact lever (14-24, $\frac{3}{4}$ in. r. h.)
154193	Spring lock washer for No. 51633 ($\frac{17}{64}$ in. by $\frac{29}{64}$ in. by $\frac{3}{4}$ in. thick)
111113	INTERLOCK FRAME
111114	Insulation plate for back of interlock frame
19669	Screw fastening Nos. 111113, 111114 in position to support (14-24, $1\frac{1}{4}$ in. r. h.)
110789	Washer for No. 19669 ($\frac{17}{64}$ in. by $\frac{1}{2}$ in. by 0.014 in.)
154193	Spring lock washer for No. 19669 ($\frac{17}{64}$ in. by $\frac{29}{64}$ in. by $\frac{3}{4}$ in. thick)
144067	BLOWOUT COIL, right-hand, complete, with pole pieces (Spec. No. 93407 stamped on coil)
144068	Blowout coil, left-hand, complete, with pole pieces (Spec. No. 93408 stamped on coil)
111118	Outside pole piece for blowout coil
144069	Screw fastening No. 111118 to blowout coil core (8-32, $\frac{1}{4}$ in. r. h. sherardized)
154190	Spring lock washer for No. 144069 ($\frac{3}{16}$ in. by $\frac{3}{8}$ in. by 0.031 in.)
144071	Barrier between inside pole piece and contact post
111120	Barrier between outside pole piece and contact post
9923	Screw fastening outside pole piece and barrier to contact post (8-32, $\frac{5}{8}$ in. r. h. brass)
154190	Spring lock washer for No. 9923 ($\frac{3}{16}$ in. by $\frac{3}{8}$ in. by 0.031 in.)
144072	Contact post for blowout coils
144075	Contact post
17398	Screw fastening No. 144072 in position (12-24, $\frac{3}{4}$ in. r. h. brass)
133451	Screw fastening No. 144075 in position (14-24, $\frac{3}{4}$ in. r. h. sherardized)
110789	Washer for Nos. 17398, 133451 ($\frac{17}{64}$ in. by $\frac{1}{2}$ in. by 0.014 in.)
139520	Spring lock washer for Nos. 17398, 133451 ($\frac{15}{64}$ in. by $\frac{27}{64}$ in. by 0.031 in.)
144076	Contact plate for contact post
44086	Copper terminal, right-hand
111129	Copper terminal, left-hand
143528	Screw fastening terminal to contact post (10-32, $\frac{5}{16}$ in. r. h. sherardized)
148636	Spring lock washer for No. 143528 ($\frac{13}{64}$ in. by $\frac{25}{64}$ in. by 0.031 in.)
111131	CONTACT DISK, complete, with small contact tips
111132	Contact disk, complete, with large contact tips
111133	Contact tip for No. 111131
111134	Contact tip for No. 111132

* Facing the circuit breaker in position, on the arc chute side.

Parts of Type DB-102 Forms A, B, D, F, G, H, J, K, L, M, N and P Circuit Breakers 54742A-9

Cat. No.	Description
154811	Pressure spring for contact disks.
154817	Rod (stamped B-2, sherardized) for contact disks
111149	Fiber sleeve for contact disk rod ($\frac{3}{8}$ in. by $\frac{1}{2}$ in. by $1\frac{3}{4}$ in.)
111148	Brass collar for contact disk rod ($\frac{1}{2}$ in. long)
133468	Spring cotter for No. 111148 ($\frac{1}{8}$ in. by $\frac{3}{4}$ in. sherardized)
133469	Spring cotter for No. 111149 ($\frac{1}{8}$ in. by $\frac{7}{8}$ in. sherardized)
111150	Bracket with operating link for contact disk rod
133469	Spring cotter for link and contact disk rod ($\frac{1}{8}$ in. by $\frac{7}{8}$ in. sherardized)
133470	Screw fastening No. 111150 in position (12-24, $\frac{5}{8}$ in. r. h. sherardized)
110789	Washer for No. 133470 ($\frac{7}{16}$ in. by $\frac{1}{2}$ in. by 0.014 in.)
139520	Spring lock washer for No. 133470 ($\frac{5}{16}$ in. by $\frac{7}{16}$ in. by 0.031 in.)
154812	Insulating cross head with pin, for contact disk rod
127354	Adjusting nut for contact disk rod ($\frac{5}{16}$ in.-18, $\frac{3}{16}$ in. thick, $\frac{3}{32}$ in. across flats, hex. cham. one side, sherardized)
133472	Washer for contact disk rod ($\frac{7}{16}$ in. by $\frac{5}{8}$ in. by 0.034 in. sherardized)
154195	Spring lock washer for No. 127354 ($\frac{7}{16}$ in. by $\frac{7}{16}$ in. by $\frac{3}{16}$ in. thick)
154813	Insulation support, upper, for interlock frame
154814	Insulation support, lower, for interlock frame
154815	Subbase for interlock frame
19988	Screw fastening Nos. 154813, 154814, 154815 to top plate and mechanism plate ($\frac{3}{8}$ in.-16, 1 $\frac{1}{2}$ in. r. h.)
60195	Washer for No. 19988 ($\frac{1}{2}$ in. by 1 in. by 0.062 in.)
139517	Spring lock washer for No. 19988 ($\frac{1}{2}$ in. by $\frac{1}{2}$ in. by 0.0625 in.)

TYPE DB-102 FORM M CIRCUIT BREAKER

Following are the parts of the DB-102-M circuit breaker which differ from those of the DB-102-A:

154819	Top plate with pillars and magnet pole
154820	Mechanism base plate and frame with bushing
154821	Operating lever with bushings
154822	Bushing ($\frac{3}{16}$ in. by $\frac{1}{16}$ in. by $\frac{1}{2}$ in. tobin bronze)
154823	Hinge pin for operating lever ($\frac{9}{16}$ in. by $4\frac{1}{16}$ in. long, tobin bronze)
16118	Spring cotter for No. 154823 ($\frac{1}{8}$ in. by $\frac{3}{4}$ in.)
154824	MAIN CONTACT LEVER, complete, with contact tip and dowel pin
154825	Contact tip
13844	Cap screw fastening No. 154825 to lever ($\frac{5}{16}$ in.-18, 1 in. hex. h. slot)
154193	Spring lock washer for No. 13844 ($\frac{1}{16}$ in. by $\frac{29}{64}$ in. by $\frac{3}{64}$ in. thick)
154826	Compression spring for main contact lever
154827	Hinge pin for main contact lever and operating lever ($\frac{7}{16}$ in. by $1\frac{3}{4}$ in. long, tobin bronze)
154828	Spring cotter for No. 154827 ($\frac{3}{32}$ in. by $1\frac{1}{8}$ in.)
154829	SECONDARY CONTACT LEVER, complete, with bushings, contact and arcing tips
154830	Bushing ($\frac{9}{16}$ in. by $\frac{1}{16}$ in. by $\frac{9}{32}$ in. tobin bronze)
154825	Contact tip
13844	Cap screw fastening No. 154825 to lever ($\frac{5}{16}$ in.-18, 1 in. hex. h. slot)
154193	Spring lock washer for No. 13844 ($\frac{1}{16}$ in. by $\frac{29}{64}$ in. by $\frac{3}{64}$ in. thick)
154831	Arcing tips, upper and lower, with rivet
10512	Screw fastening No. 154831 to lever (14-24, $\frac{5}{8}$ in. r. h. brass)
154193	Spring lock washer for No. 10512 ($\frac{1}{16}$ in. by $\frac{29}{64}$ in. by $\frac{3}{64}$ in. thick)
154832	Compression spring for secondary contact lever
154833	Supporting seat with bushings for compression spring
154834	Bushing ($\frac{3}{16}$ in. by $\frac{1}{16}$ in. by $\frac{1}{4}$ in. tobin bronze)
42544	Stop pin for compression spring support
164950	Hinge pin for Nos. 154821, 154829, 154833 ($\frac{9}{16}$ in. by $3\frac{5}{8}$ in.)
16118	Spring cotter for Nos. 42544, 164950 ($\frac{1}{8}$ in. by $\frac{3}{4}$ in.)
154836	Pigtail shunt with terminals
154837	Copper terminal for main contact lever

GENERAL ELECTRIC COMPANY

54742A-12 Parts of Type DB-102 Forms A, B, D, F, G, H, J, K, L, M, N and P Circuit Breakers

Cat. No.	Description
16118	Spring cotter for Nos. 154844, 154425, 42544 ($\frac{1}{8}$ in. by $\frac{3}{4}$ in.)
154787	OVERLOAD TRIPPING COIL, complete, with terminal and bushing
154799	SHUNT TRIPPING COIL, complete
154800	Core for shunt tripping coil, sherardized
154801	Support for tripping coils
154802	Overload coil trip lever, complete, with armature
154803	Shunt coil trip lever, complete, with armature
154804	Coil spring for 154803
154805	Stop for calibrating screw, complete, with calibrating plate and support
154846	BLOWOUT COIL, complete, with contact base, terminal, bushing, contact tip, arcing plate and arcing shield
154847	Contact tip
154848	Shunt for blowout coil support and contact tip
154849	Cap screw fastening Nos. 154847, 154848 to blowout coil (14-24, $1\frac{1}{8}$ in. hex. h. slot. sherardized)
14426	Washer for No. 154849 ($\frac{1}{4}$ in. by $\frac{1}{2}$ in. by 0.060 in. brass)
154193	Spring lock washer for No. 154849 ($\frac{1}{4}$ in. by $\frac{3}{4}$ in. by $\frac{3}{4}$ in. thick)
26211	Cap screw fastening No. 154848 to blowout coil support ($\frac{5}{16}$ in.-18, $\frac{1}{2}$ in. hex. h. slot.)
154850	Washer for No. 26211 ($\frac{3}{8}$ in. by $\frac{7}{8}$ in. by 0.051 in.)
154195	Spring lock washer for No. 26211 ($\frac{3}{4}$ in. by $\frac{3}{4}$ in. by $\frac{3}{4}$ in. thick)
142419	Clamp for terminal
154851	Bushing for terminal
143997	Clamping screw for terminal ($\frac{3}{8}$ in.-16, $1\frac{1}{4}$ in. hex. h. slot. sherardized, cap screw)
139517	Spring lock washer for No. 143997 ($\frac{3}{32}$ in. by $\frac{25}{32}$ in. by 0.0625 in.)
154852	Arcing plate for blowout coil
144062	Guard for arcing plate
150583	Cap screw fastening arcing plate and guard to blowout coil (14-24, $\frac{5}{8}$ in. hex. h. slot.)
154193	Spring lock washer for No. 150583 ($\frac{1}{4}$ in. by $\frac{29}{64}$ in. by $\frac{3}{4}$ in. thick)
154853	Arcing shield for blowout coil
154854	Blowout coil core
154855	Fiber sleeve for blowout coil core (1 in. by $1\frac{1}{8}$ in. by $4\frac{25}{32}$ in. long)
154856 *	POLE PIECE, right-hand, with supporting block
154857 *	Pole piece, left-hand, with supporting block
51726	Screw fastening pole pieces to blowout coil core ($\frac{5}{16}$ in.-18, $\frac{5}{8}$ in. f. h.)
154858	Insulation base for blowout coil
154859	Insulation side plate for blowout coil
10576	Screw fastening side plate to base and insulation base to blowout coil ($\frac{5}{16}$ in.-18, 1 in. f. h.)
154871	Insulation plate between insulation base and mechanism frame
154861	Screw fastening pole piece supporting blocks and insulation base to mechanism base plate ($\frac{3}{8}$ in.-16, $2\frac{3}{4}$ in. r. h. brass)
19988	Screw fastening insulation base to top plate ($\frac{3}{8}$ in.-16, $1\frac{1}{2}$ in. r. h.)
21392	Washer for No. 19988 ($\frac{1}{32}$ in. by $\frac{3}{4}$ in. by 0.0625 in.)
139517	Spring lock washer for No. 19988 ($\frac{1}{32}$ in. by $\frac{25}{32}$ in. by 0.0625 in.)
154862	Insulation for No. 19988
46834	Screw fastening No. 154862 to blowout coil insulation back (14-24, $\frac{5}{8}$ in. r. h.)
119780	Washer for No. 46834 ($\frac{1}{4}$ in. by $\frac{1}{2}$ in. by 0.034 in.)
154193	Spring lock washer for No. 46834 ($\frac{1}{4}$ in. by $\frac{29}{64}$ in. by $\frac{3}{4}$ in. thick)
154863	Arc chute, complete, consists of side plates, insulation back, upper and lower spacing blocks
154864	Side plate for arc chute
154865	Spacing block for side plates, upper end
154866	Spacing block for side plates, lower end
154867	Stop block for lower end spacing block
154868	Insulation back for side plates
144053	Stud for side plates and spacing blocks (14-24, $2\frac{1}{8}$ in. long, brass)
119780	Washer for No. 144053 ($\frac{1}{4}$ in. by $\frac{1}{2}$ in. by 0.034 in.)
21953	Nut for No. 144053 (14-24, $\frac{3}{8}$ in. thick, $\frac{1}{2}$ in. across flats, hex. cham. both sides, brass)

* Facing the circuit breaker in position, on the arc chute side.

Parts of Type DB-102 Forms A, B, D, F, G, H, J, K, L, M, N and P Circuit Breakers 54742A-13

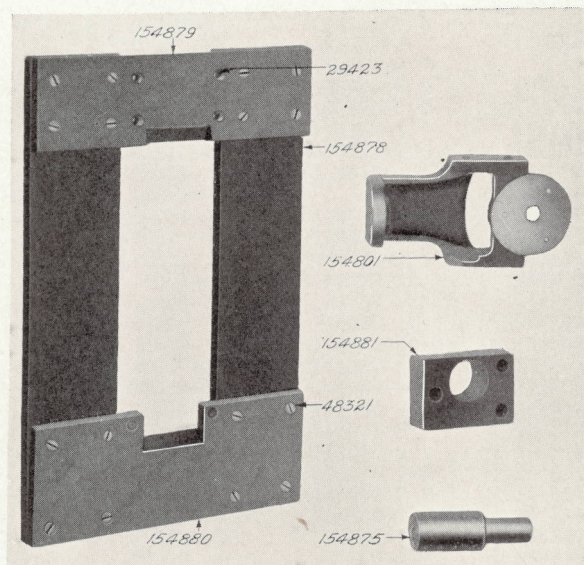
Cat. No.	Description
154193	Spring lock washer for No. 144053 ($\frac{17}{64}$ in. by $\frac{29}{64}$ in. by $\frac{3}{64}$ in. thick).....
144054	Stud for pole pieces, side plates and lower spacing block (14-24, $3\frac{1}{16}$ in. long, brass).....
154869	Fiber nut for No. 144054.....
21254	Screw fastening stop block in position to lower spacing block ($\frac{5}{16}$ in.-18, $1\frac{1}{4}$ in. f. h.).....
13844	Cap screw fastening blowout coil arcing shield and upper end spacing block to blowout coil ($\frac{5}{16}$ in.-18, 1 in. hex. h. slot.).....
58783	Washer for No. 13844 ($\frac{21}{64}$ in. by $\frac{5}{8}$ in. by 0.034 in.).....
154195	Spring lock washer for No. 13844 ($\frac{21}{64}$ in. by $\frac{37}{64}$ in. by $\frac{3}{64}$ in. thick).....

TYPE DB-102 FORM P CIRCUIT BREAKER

Following are the parts of the DB-102-P circuit breaker which differ from those of the DB-102-A:

NOTE.—In the DB-102-P circuit breaker the rheostat is omitted.

154781	Top plate with pillars and magnet pole.....
154782	Mechanism base plate and frame with bushing.....



PARTS OF TYPE DB-102 FORM P CIRCUIT BREAKER

154873	OVERLOAD TRIPPING COIL, complete, with terminal and bushing.....
154874	Terminal for cable.....
154784	SHUNT TRIPPING COIL, complete.....
154785	Core for shunt tripping coil, sherardized.....
154783	Support for tripping coils.....
154788	BLOWOUT COIL, complete, with support, terminal and contacts.....
154875	Outside terminal for blowout coil.....
48051	POLE PIECE, two parts, with blowout coil core, screw and insulation sleeve.....
48053	Insulation plate for pole piece.....
154876	ARC CHUTE, complete, includes screws and washers for fastening in position.....
154792	* Side plate, right-hand.....
154793	* Side plate, left-hand.....
154877	Upper plate with insulation block.....
154881	Insulation block with pin, for cable terminal.....
29423	Screw fastening insulation block to upper end plate (14-24, $1\frac{1}{4}$ in. f. h.).....

* Facing the circuit breaker in position, on the arc chute side.

GENERAL ELECTRIC COMPANY

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