

General Electric Company

Schenectady, N.Y.

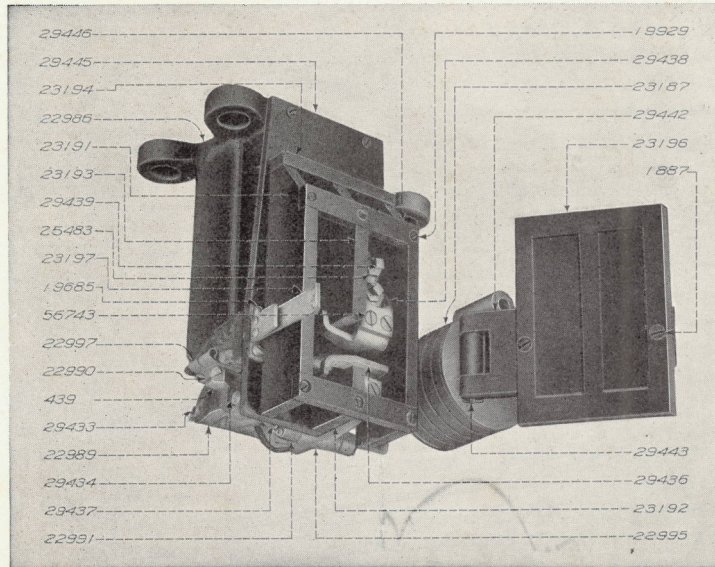
SUPPLY DEPARTMENT

July, 1912

* Bulletin No. 4970

PARTS OF CONTACTORS AND INTERLOCKS

Used Principally with Sprague-General Electric Type M Control Apparatus



TYPE DB-15, FORMS A AND E CONTACTORS

Cat. No.	Description
	<i>Following are the parts:</i>
30426	OPERATING MAGNET SPOOL, complete, DB-15-A-6.....
30427	Operating magnet spool, complete, DB-15-A-7
34268	Operating magnet spool, complete, DB-15-A-8
40127	Operating magnet spool, complete, DB-15-A-9
40173	Operating magnet spool, complete, DB-15-A-10.....
40174	Operating magnet spool, complete, DB-15-A-11.....
40175	Operating magnet spool, complete, DB-15-A-12.....
40176	Operating magnet spool, complete, DB-15-A-13.....
40177	Operating magnet spool, complete, DB-15-A-14.....
40178	Operating magnet spool, complete, DB-15-A-15.....
40196	Operating magnet spool, complete, DB-15-A-16.....
47547	Operating magnet spool, complete, DB-15-A-18
47548	Operating magnet spool, complete, DB-15-A-19.
22778	Copper terminal for magnet spool.....
19682	Screw fastening terminal in position (14-24, $\frac{3}{8}$ in. r.h. blued).....
22780	Lock washer for No. 19682 ($\frac{17}{16}$ in. by $\frac{1}{2}$ in. by 0.060 in.).....

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. 4533.

4970-2 *Parts of Contactors and Interlocks*

TYPE DB-15, FORMS A AND E CONTACTORS

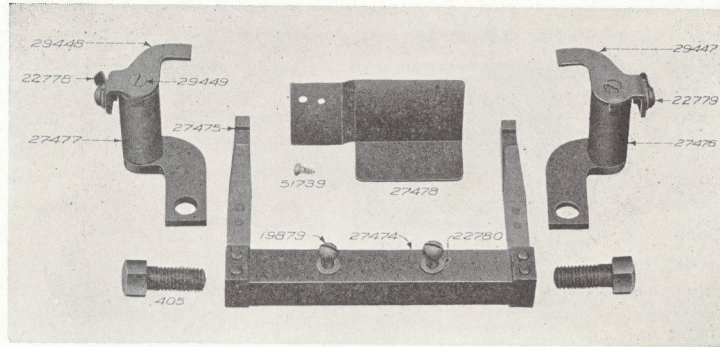
Cat. No.	Description
22986	MAGNET FRAME.....
22987	Screw pole for magnet spool.....
22988	Spring washer for pole (1½ in. by 3¼ in. ph. brz.).....
22989	* Bearing bracket for DB-15-A contactor only.....
439	Cap screw fastening bearing bracket to frame (½ in.-13, 1 in. hex. h.).....
22990	Washer plate for No. 439.....
22991	Contact lever.....
29433	Hinge pin for lever and bracket (7/16 in. by 4 9/16 in. Tob. brz.).....
4030	Spring cotter for No. 29433 (3/2 in. by 5/8 in.).....
22993	Plunger for lever.....
29434	Pin for plunger (½ in. by 4 3/16 in.).....
29435	Spring cotter for No. 29434 (3/2 in. by 1 3/8 in.).....
22995	Contact finger, complete, includes contact tip, terminal and pigtail.....
29436	Contact tip.....
56743	Screw fastening contact tip to finger (14-24, ½ in. f.h.).....
22997	Terminal with pigtail.....
29437	* Hinge pin for finger and lever (3/8 in. by 3 5/16 in. Tob. brz.) for DB-15-A contactor only.....
4030	Spring cotter for No. 29437 (3/2 in. by 5/8 in.).....
29438	Fixed contact base, complete, with contact tip No. 29436, set screw and binding nuts.....
56743	Screw fastening contact tip to base (14-24, ½ in. f.h.).....
29439	Set screw for base (5/16 in.-18, 1 3/16 in. sq. h. oval point sp'l).....
25483	Binding nut for set screw (5/16 in.-18, hex., blued sp'l).....
2028	Screw fastening contact base in position (14-24, 5/8 in. f.h.).....
29441	Pressure spring for contact finger.....
23177	Fiber button for spring.....
23187	Blowout spool, wound complete, with terminal.....
10104	Cap screw fastening No. 23187 to frame (¾ in.-10, 4 in. hex. h.).....
29442	Pole piece with paper packing.....
29443	Hinge pin for pole piece (¼ in. by 3 3/16 in.).....
5006	Spring cotter for No. 29443 (3/2 in. by ½ in.).....
1887	Screw fastening pole piece to door for arc chute (14-24, ¾ in. f.h.).....
29444	Bushing used with No. 1887 (tapped 14-24 thread, fiber sp'l).....
23189	ARC CHUTE, complete, includes shield for magnet spool, door, door catch and screws for fastening in position.....
19685	Screw fastening chute and door catch in position (14-24, 7/8 in. r.h. blued).....
29445	Back for chute.....
23191	Side partition.....
23192	Middle partition, lower end.....
23193	Middle partition, upper end.....
23194	Upper end partition.....
29446	Partition brace.....
27884	Shield for magnet spool.....
23196	Door for arc chute.....
23197	Catch, complete, for door.....
19929	Screw fastening parts of partition together (No. 8, 7/8 in. f.h.).....

For interlocks for use with the DB-15-E contactor, see pages 32, 33, 34.

* For the DB-15-E contactor, bracket Cat. No. 22989 is replaced by bracket Cat. No. 46779 which is an integral part of the interlock, see page 32, and hinge pin Cat. No. 29437 is replaced by the interlock operating lever pin Cat. No. 46801, see page 34.

TYPE DB-15, FORM B CONTACTOR

Cat. No.	Description
	<i>The following are additional parts used with the DB-15-B contactor, which when added to a DB-15-A, convert it into a DB-15-B contactor, all other parts being identical:</i>
27474	Interlocking contact finger strap, complete, with fingers and screws for fastening to contact lever.
27475	Contact finger, complete, with tip and rivet.
27476	Interlocking contact post, complete, with all attached parts (right-hand).
27477	Interlocking contact post, complete, with all attached parts (left-hand).



29447	Interlocking contact (right-hand).
29448	Interlocking contact (left-hand).
29449	Screw fastening Nos. 29447, 29448 to post (10-24, $\frac{5}{8}$ in. f.h. brass).
405	Cap screw fastening contact posts to frame ($\frac{1}{2}$ in.-13, $1\frac{1}{4}$ in. hex. h.).
19879	Screw fastening finger strap to brackets (14-24, $1\frac{1}{8}$ in. r.h. blued).
22779	Binding screw for contact post (14-24, $\frac{5}{16}$ in. r.h. blued).
22780	Lock washer for Nos. 19879, 22779 ($\frac{11}{64}$ in. by $\frac{1}{2}$ in. by 0.060 in.).
22778	Copper terminal for binding post.
27478	Shield for interlocking contact post and blowout spool.
51739	Screw fastening shield to back of chute (No. 8, $\frac{3}{8}$ in. r.h. blued).

TYPE DB-15, FORM C CONTACTOR

	<i>The following are additional parts used with the DB-15-C contactor, which when added to a DB-15-A, convert it into a DB-15-C contactor, all other parts being identical:</i>
27474	Interlocking contact finger strap, complete, with fingers and screws for fastening to contact lever
27475	Contact finger, complete, with tip and rivet.
37948	Interlocking contact post, complete, with all attached parts (right-hand).
37951	Interlocking contact post, complete, with all attached parts (left-hand).
37952	Interlocking contact (right-hand).
37957	Interlocking contact (left-hand).
29449	Screw fastening Nos. 37952, 37957 to post (10-24, $\frac{5}{8}$ in. f.h. brass).
405	Cap screw fastening contact post to frame ($\frac{1}{2}$ in.-13, $1\frac{1}{4}$ in. hex. h.).
19879	Screw fastening finger strap to brackets (14-24, $1\frac{1}{8}$ in. r.h. blued).
22779	Binding screw for contact posts (14-24, $\frac{5}{16}$ in. r.h. blued).
22780	Lock washer for Nos. 19879, 22779 ($\frac{11}{64}$ in. by $\frac{1}{2}$ in. by 0.060 in.).
22778	Copper terminal for binding post.
37959	Shield for interlocking contact post and blowout spool.
51739	Screw fastening shield to back of chute (No. 8, $\frac{3}{8}$ in. r.h. blued).

TYPE DB-15, FORM D CONTACTOR

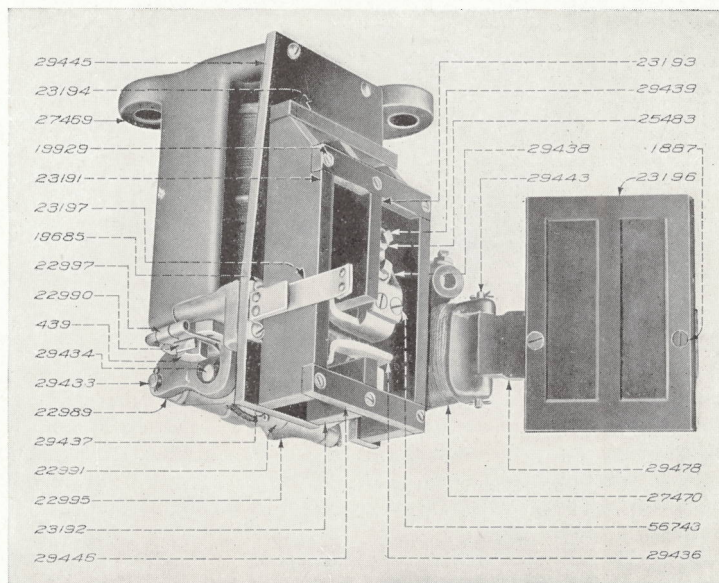
	<i>The following is the only part of the DB-15-D contactor which differs from those of the DB-15-A:</i>
37961	Blowout spool, wound, complete, with terminal.

4970-4 Parts of Contactors and Interlocks

TYPE DB-15, FORM F CONTACTOR

Cat. No.	Description
	<i>Following are the parts of the Type DB-15, Form F contactor which differ from those of the Type DB-15, Form E:</i>
111257	Operating lever.....
30483	Hinge screw for operating lever and interlock operating lever (14-24, $\frac{17}{32}$ in. fill. h. sp'l)
111258	Contact finger, complete, with contact tip, terminal and pigtail.....
111259	Terminal with pigtail.....
111260	Hinge pin for contact finger and operating lever ($\frac{7}{16}$ in. by $3\frac{5}{16}$ in. Tob. brz.).....
111261	Pressure spring for contact finger.....
110778	Fiber button for spring.....

TYPE DB-23, FORM A CONTACTOR



Following are the parts:

30426	OPERATING MAGNET SPOOL, complete, DB-23-A-6.....
30427	Operating magnet spool, complete, DB-23-A-7
34268	Operating magnet spool, complete, DB-23-A-8
40127	Operating magnet spool, complete, DB-23-A-9
40173	Operating magnet spool, complete, DB-23-A-10.....
40174	Operating magnet spool, complete, DB-23-A-11.....
40175	Operating magnet spool, complete, DB-23-A-12.....
40176	Operating magnet spool, complete, DB-23-A-13.....
40177	Operating magnet spool, complete, DB-23-A-14.....
40178	Operating magnet spool, complete, DB-23-A-15.....
40196	Operating magnet spool, complete, DB-23-A-16.....
47547	Operating magnet spool, complete, DB-23-A-18.....
47548	Operating magnet spool, complete, DB-23-A-19.....
22778	Copper terminal for magnet spool.....
19682	Screw fastening terminal in position (14-24, $\frac{3}{8}$ in. r.h. blued).....
22780	Lock washer for No. 19682 ($\frac{17}{64}$ in. by $\frac{1}{2}$ in. by 0.060 in.).....
27469	MAGNET FRAME.....
22987	Screw pole for magnet spool.....
22988	Spring washer for pole (1 $\frac{1}{2}$ in. by 3 $\frac{1}{4}$ in. ph. brz.).....
22989	Bearing bracket
439	Cap screw fastening bearing bracket to frame ($\frac{1}{2}$ in.-13, 1 in. hex. h.).....
22990	Washer plate for No. 439.....
22991	Contact lever.....
29433	Hinge pin for lever and bracket ($\frac{7}{16}$ in. by $4\frac{9}{16}$ in. Tob. brz.).....

TYPE DB-23, FORM A CONTACTOR

Cat. No.	Description
4030	Spring cotter for No. 29433 ($\frac{3}{32}$ in. by $\frac{5}{8}$ in.).....
22993	Plunger for lever.....
29434	Pin for plunger ($\frac{1}{2}$ in. by $4\frac{3}{16}$ in.).....
29435	Spring cotter for No. 29434 ($\frac{3}{32}$ in. by $1\frac{3}{8}$ in.).....
22995	Contact finger, complete, includes contact tip, terminal and pigtail.....
29436	Contact tip.....
56743	Screw fastening contact tip to finger (14-24, $\frac{1}{2}$ in. f.h.).....
22997	Terminal with pigtail.....
29437	Hinge pin for finger and lever ($\frac{3}{8}$ in. by $3\frac{5}{16}$ in. Tob. brz.).....
4030	Spring cotter for No. 29437 ($\frac{3}{32}$ in. by $\frac{5}{8}$ in.).....
29438	Fixed contact base, complete, with contact tip No. 29436, set screws and binding nuts.....
56743	Screw fastening contact tip to base (14-24, $\frac{1}{2}$ in. f.h.).....
29439	Set screw for base ($\frac{5}{16}$ in.-18, $1\frac{3}{16}$ in. sq. h. oval point sp'l).....
25483	Binding nut for set screw ($\frac{5}{16}$ in.-18, hex., blued sp'l).....
2028	Screw fastening contact base in position (14-24, $\frac{5}{8}$ in. f.h.).....
29441	Pressure spring for contact finger.....
23177	Fiber button for spring.....
27470	Blowout spool, wound, complete, with terminal.....
27471	Screw fastening No. 27470 to frame ($\frac{3}{8}$ in.-16, $3\frac{1}{2}$ in. f.h.).....
29478	Pole piece with paper packing.....
29443	Hinge pin for pole piece ($\frac{1}{4}$ in. by $3\frac{3}{16}$ in.).....
5006	Spring cotter for No. 29443 ($\frac{3}{32}$ in. by $\frac{1}{2}$ in.).....
1887	Screw fastening pole piece to door for arc chute (14-24, $\frac{3}{4}$ in. f.h.).....
29444	Bushing used with No. 1887 (tapped 14-24 thread, fiber sp'l).....
23189	ARC CHUTE, complete, includes shield for magnet spool, door, door catch and screws for fastening in position.....
19685	Screw fastening chute and door catch in position (14-24, $\frac{7}{8}$ in. r.h. blued).....
29445	Back for chute.....
23191	Side partition.....
23192	Middle partition, lower end.....
23193	Middle partition, upper end.....
23194	Upper end partition.....
29446	Partition brace.....
27884	Shield for magnet spool.....
23196	Door for arc chute.....
23197	Catch, complete, for door.....
19929	Screw fastening parts of partition together (No. 8, $\frac{7}{8}$ in. f.h.).....

*** TYPE DB-23, FORM B CONTACTOR**

The following are additional parts used with the DB-23-B contactor which, when added to a DB-23-A, convert it into a DB-23-B contactor, all other parts being identical:

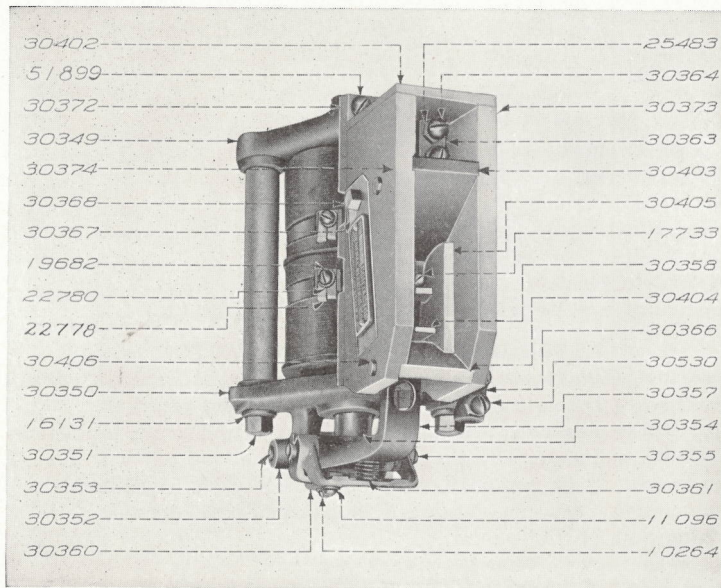
27474	Interlocking contact finger strap, complete, with fingers and screws for fastening to contact lever
27475	Contact finger, complete, with tip and rivet.....
27476	Interlocking contact post, complete, with all attached parts (right-hand).....
27477	Interlocking contact post, complete, with all attached parts (left-hand).....
29447	Interlocking contact (right-hand).....
29448	Interlocking contact (left-hand).....
29449	Screw fastening Nos. 29447, 29448 to post (10-24, $\frac{5}{8}$ in. f.h. brass).....
405	Cap screw fastening contact post to frame ($\frac{1}{2}$ in.-13, $1\frac{1}{4}$ in. hex. h.).....
19879	Screw fastening finger straps to brackets (14-24, $1\frac{1}{8}$ in. r.h. blued).....
22779	Binding screw for contact post (14-24, $\frac{5}{16}$ in. r.h. blued).....
22780	Lock washer for Nos. 19879, 22779 ($\frac{17}{4}$ in. by $\frac{1}{2}$ in. by 0.060 in.).....
22778	Copper terminal for binding post.....
27478	Shield for interlocking contact post and blowout spool.....
51739	Screw fastening shield to back of chute (No. 8, $\frac{3}{8}$ in. r.h. blued).....

* See page 3 for illustration of interlocking contact.

4970-6 Parts of Contactors and Interlocks

TYPE DB-31, FORM A CONTACTOR

Cat. No.	Description
	In the DB-31 series, contactors may consist of groups of from one to six units, each group having a common base plate on which the magnet frames are permanently mounted, the units being otherwise identical.
	The second figure in the numerical class rating of such groups indicates the number of units composing the groups. Thus DB-31 is a contactor of one unit; DB-33 a contactor of 3 units of the same series, etc.
	Contactors may have on one or more of the units composing the group Form 1 interlocking contacts, which are closed when the main contact is opened, or Form 2 interlocking contacts which are closed when the main contact is closed, or Form 3 interlocking contacts which are a combination of Form 1 and Form 2, or Form 4 interlocking contacts which are a combination of two Form 1 contacts. The location of these interlocking contacts is indicated by form letters following the numerical class rating.
	Form A indicates a contactor without interlocking contact.
	Forms B, C, D, E, F and G indicate contactors having Form 1 interlocking contacts on the first, second, third, fourth, fifth and sixth units respectively.
	Forms H, J, K, L, M and N indicate contactors having Form 2 interlocking contacts on the first, second, third, fourth, fifth and sixth units respectively.
	Forms BH, CJ, DK, EL, FM and GN indicate contactors having Form 3 interlocking contacts on the first, second, third, fourth, fifth and sixth units respectively.
	Forms BB, CC, DD, EE, FF and GG indicate contactors having Form 4 interlocking contacts on the first, second, third, fourth, fifth and sixth units respectively.
	<i>Following are the parts:</i>
30345	OPERATING MAGNET SPOOL, complete, DB-31-A-3.....



30346	Operating magnet spool, complete, DB-31-A-4.....
30347	Operating magnet spool, complete, DB-31-A-5.....
30348	Operating magnet spool, complete, DB-31-A-6.....
40125	Operating magnet spool, complete, DB-31-A-7.....
40126	Operating magnet spool, complete, DB-31-A-8.....
47550	Operating magnet spool, complete, DB-31-A-9.....
47551	Operating magnet spool, complete, DB-31-A-10.....

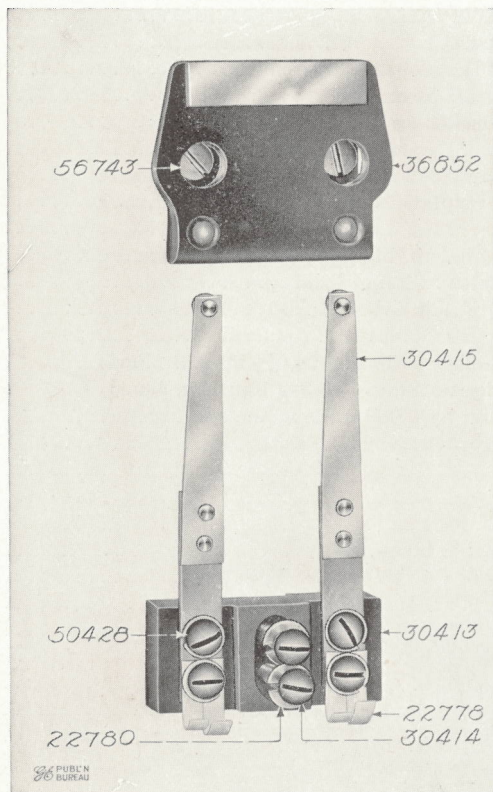
TYPE DB-31, FORM A CONTACTOR

Cat. No.	Description
47552	Operating magnet spool, complete, DB-31-A-11.....
22778	Copper terminal for magnet spool.....
19682	Screw fastening terminal in position (14-24, $\frac{3}{8}$ in. r.h. blued).....
22780	Lock washer for No. 19682 ($\frac{17}{64}$ in. by $\frac{1}{2}$ in. by 0.060 in.).....
30349	TOP PLATE, with pillars and magnet pole.....
30350	Mechanism plate.....
30351	Cap screw fastening No. 30350 to frame ($\frac{1}{2}$ in.-13, $1\frac{1}{4}$ in. hex. h. slot).....
16131	Lock washer for No. 30351.....
30352	Contact lever.....
30353	Hinge pin for lever ($\frac{7}{16}$ in. by $3\frac{9}{16}$ in. Tob. brz. sp'l).....
30354	Plunger for lever.....
30355	Pin for plunger and contact finger ($\frac{7}{16}$ in. by $3\frac{13}{16}$ in.).....
4030	Spring cotter for No. 30355 ($\frac{3}{8}$ in. by $\frac{5}{8}$ in.).....
30356	Brass disk for plunger and magnet pole ($1\frac{1}{2}$ in. by 0.062 in.).....
30357	CONTACT FINGER, complete, includes contact tip and shunt.....
30358	Contact tip.....
17733	Screw fastening contact tip to finger (14-24, $\frac{1}{2}$ in. f.h. blued, sp'l).....
30359	Copper shunt with phosphor bronze washer plates.....
56743	Screw fastening No. 30359 to finger (14-24, $\frac{1}{2}$ in. f.h.).....
30360	Shunt guard.....
11096	Short screw fastening shunt and guard to mechanism plate (14-24, $\frac{5}{8}$ in. r.h. blued).....
10264	Long screw fastening shunt and guard to mechanism plate (14-24, 1 in. r.h. blued).....
22780	Lock washer for Nos. 11096, 10264 ($\frac{17}{64}$ in. by $\frac{1}{2}$ in. by 0.060 in.).....
30361	Pressure spring for contact finger.....
23177	Fiber button for spring.....
30362	Fixed contact base.....
30358	Contact tip.....
17733	Screw fastening contact tip to base (14-24, $\frac{1}{2}$ in. f.h. blued, sp'l).....
10298	Screw fastening contact base and blowout coil to arc chute (14-24, $\frac{7}{8}$ in. f.h.).....
30363	BLOWOUT COIL, complete, with terminals.....
30364	Binding screw for No. 30363 ($\frac{5}{16}$ in.-18, 1 in. r.h. round point, blued sp'l).....
25483	Check nut for No. 30364 ($\frac{5}{16}$ in.-18, hex. blued, sp'l).....
30366	Terminal for frame.....
30530	Binding screw for No. 30366 ($\frac{5}{16}$ in.-18, $\frac{7}{8}$ in. r.h. round point, blued, sp'l).....
25483	Check nut for No. 30530 ($\frac{5}{16}$ in.-18, hex. blued, sp'l).....
30367	POLE PIECE, two halves, with blowout coil core and cap screw.....
30368	Cap screw for No. 30367 ($\frac{5}{16}$ in.-18, $\frac{1}{2}$ in. hex. h.).....
30369	Fiber sleeve for blowout coil core.....
30370	ARC CHUTE, complete, includes screws and washers for fastening in position.....
51899	Screw fastening chute in position ($\frac{5}{16}$ in.-18, 1 in. r.h. blued).....
47173	Lock washer for No. 51899 ($\frac{31}{64}$ in. by $\frac{5}{8}$ in. by 0.0625 in.).....
30372	Back plate.....
30373	Side plate (right-hand).....
30374	Side plate (left-hand).....
30402	Upper end plate.....
30403	Arcing plate, upper.....
30404	Arcing plate, lower.....
30405	Arcing plate, side.....
30406	Bolt for chute (10-32, 3 in. hex. h. brass).....
9962	Nut for bolt (10-32, hex. brass).....
882	Screw fastening back plate to side plates (No. 8, 1 in. f.h.).....
14192	Screw fastening upper end plate to side plates (No. 8, $\frac{5}{8}$ in. f.h.).....
	NOTE.—The following are top plates for other contactors of the DB-31 series, all parts of the contactors, except the top plates, being identical.....
30408	TOP PLATE, with pillars and magnet poles for DB-32 contactor.....
30409	Top plate, with pillars and magnet poles for DB-33 contactor.....

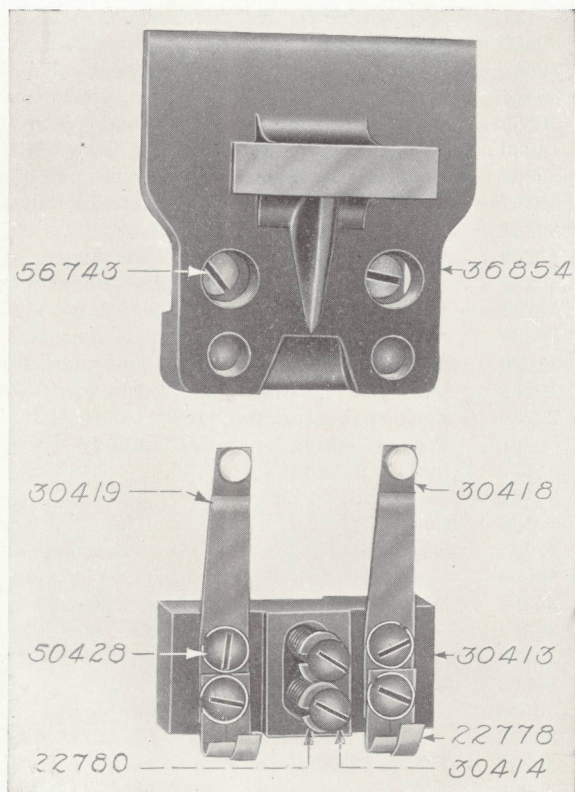
4970-8 Parts of Contactors and Interlocks

TYPE DB-31, FORM A CONTACTOR

Cat. No.	Description
30410	Top plate, with pillars and magnet poles for DB-34 contactor.....
30411	Top plate, with pillars and magnet poles for DB-35 contactor.....
30412	Top plate, with pillars and magnet poles for DB-36 contactor.....
<i>Following are the parts of the Form 1 interlocking contact:</i>	
30413	Contact block.....
30414	Screw fastening No. 30413 to mechanism plate (14-24, 1 3/8 in. r.h. blued).....



FORM 1 INTERLOCKING CONTACT FOR DB-31 CONTACTOR

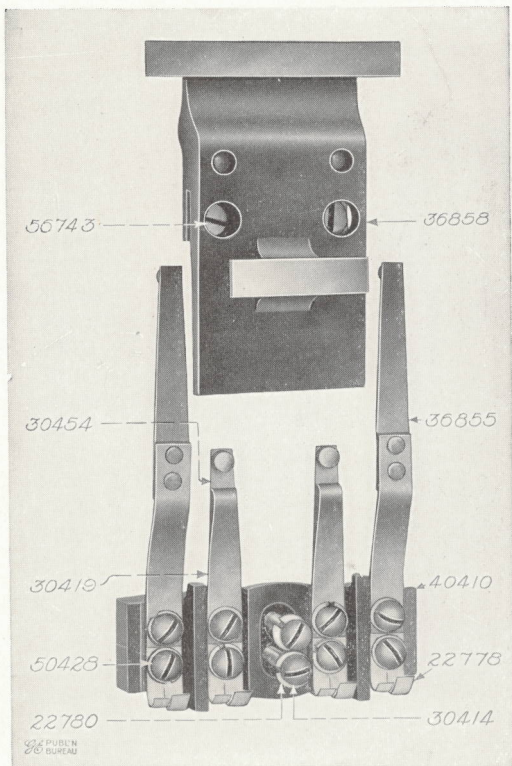


FORM 2 INTERLOCKING CONTACT FOR DB-31 CONTACTOR

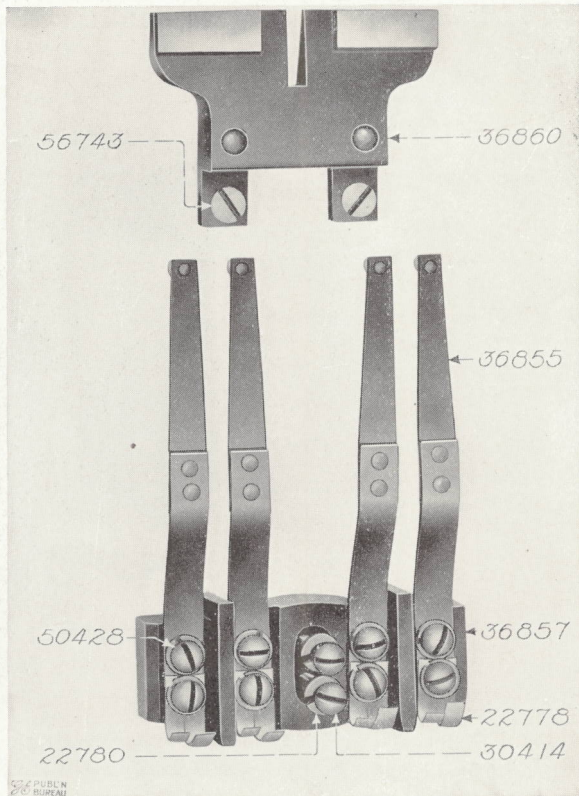
22780	Lock washer for No. 30414 (1 1/4 in. by 1/2 in. by 0.060 in.).....
30415	Contact finger, complete.....
30416	Contact finger with contact tip and rivets.....
50428	Screw fastening finger to block (14-24, 1/2 in. r.h. blued).....
22780	Lock washer No. 50428 (1 1/4 in. by 1/2 in. by 0.060 in.).....
22778	Copper terminal for finger.....
36852	Contact support, with copper contact.....
56743	Screw fastening support to contact lever (14-24, 1/2 in. f.h.).....
<i>Following are the parts of the Form 2 inverted interlocking contact:</i>	
30413	Contact block.....
30414	Screw fastening No. 30413 to mechanism plate (14-24, 1 3/8 in. r.h. blued).....
22780	Lock washer for No. 30414 (1 1/4 in. by 1/2 in. by 0.060 in.).....
30418	Contact finger with contact tip.....
30419	Contact finger stop.....
50428	Screw fastening Nos. 30418, 30419 to block (14-24, 1/2 in. r.h. blued).....
22780	Lock washer for No. 50428 (1 1/4 in. by 1/2 in. by 0.060 in.).....

TYPE DB-31, FORM A CONTACTOR
Description

Cat. No.	
22778	Copper terminal for finger.....
36854	Contact support, with copper contact.....
56743	Screw fastening support to contact lever (14-24, 1/2 in. f.h.).....
	<i>Following are the parts of the Form 3 interlocking contact:</i>
40410	Contact block.....
30414	Screw fastening No. 40410 to mechanism plate (14-24, 1 3/8 in. r.h. blued).....



FORM 3 INTERLOCKING CONTACT FOR DB-31 CONTACT



FORM 4 INTERLOCKING CONTACT FOR DB-31 CONTACTOR

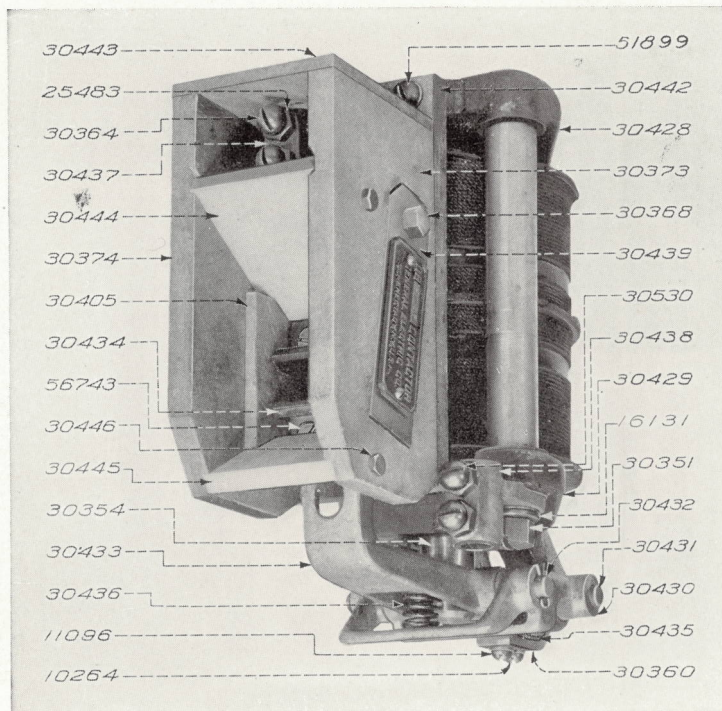
22780	Lock washer for No. 30414 (1 1/4 in. by 1/2 in. by 0.060 in.).....
36855	Long contact finger, complete.....
40411	Contact finger with contact tip and rivets.....
30454	Short contact finger with contact tip.....
30419	Contact finger stop.....
50428	Screw fastening Nos. 36855, 30454, 30419 to block (14-24, 1/2 in. r.h. blued).....
22780	Lock washer for No. 50428 (1 1/4 in. by 1/2 in. by 0.060 in.).....
22778	Copper terminal for finger.....
36858	Contact support with copper contacts.....
56743	Screw fastening support to contact lever (14-24, 1/2 in. f.h.).....
	<i>Following are the parts of the Form 4 interlocking contact:</i>
36857	Contact block.....
30414	Screw fastening No. 36857 to mechanism plate (14-24, 1 3/8 in. r.h. blued).....
22780	Lock washer for No. 30414 (1 1/4 in. by 1/2 in. by 0.060 in.).....
36855	Contact finger, complete.....
40411	Contact finger with contact tip and rivets.....

4970-10 Parts of Contactors and Interlocks

TYPE DB-31, FORM A CONTACTOR

Cat. No.	Description
50428	Screw fastening finger to block (14-24, 1/2 in. r.h. blued).....
22780	Lock washer for No. 50428 (11/4 in. by 1/2 in. by 0.060 in.).....
22778	Copper terminal for finger.....
36860	Contact support with copper contacts.....
56743	Screw fastening support to contact lever (14-24, 1/2 in. f.h.).....
30456	INSULATION TUBE for interlock wires (10 1/2 in. long, 5/8 in. hole).....
30457	Supporting clamp for insulation tube.....

TYPE DB-41, FORM A CONTACTOR



In the DB-41 series, contactors may consist of groups of from one to six units, each group having a common base plate on which the magnet frames are permanently mounted, the units being otherwise identical.

The second figure in the numerical class rating of such groups indicates the number of units composing the groups. Thus DB-41 is a contactor of one unit; DB-43 a contactor of three units of the same series, etc.

Contactors may have on one or more of the units composing the group Form 1 interlocking contacts, which are closed when the main contact is opened, or Form 2 interlocking contacts which are closed when the main contact is closed, or Form 3 interlocking contacts which are a combination of Form 1 and Form 2, or Form 4 interlocking contacts which are a combination of two Form 1 contacts. The location of these interlocking contacts is indicated by Form letters following the numerical class rating.

Form A indicates a contactor without interlocking contact.

Forms B, C, D, E, F and G indicate contactors having Form 1 interlocking contacts on the first, second, third, fourth, fifth and sixth units respectively.

Forms H, J, K, L, M and N indicate contactors having Form 2 interlocking contacts on the first, second, third, fourth, fifth and sixth units respectively.

Forms BH, CJ, DK, EL, FM and GN indicate contactors having Form 3 interlocking contacts on the first, second, third, fourth, fifth and sixth units respectively.

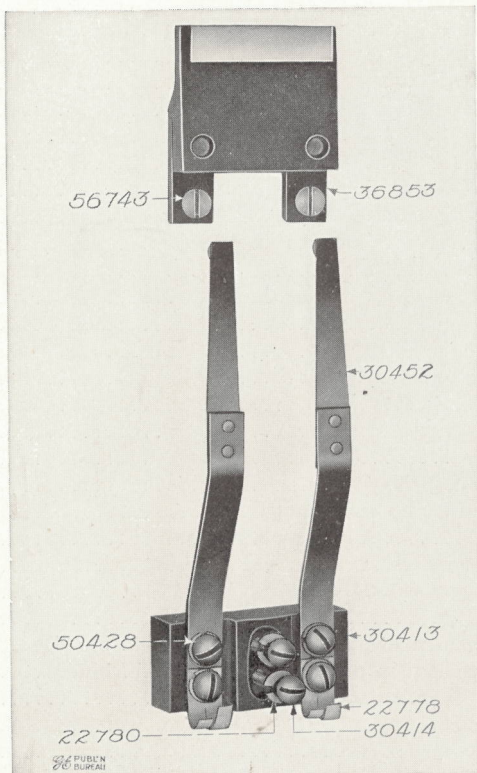
TYPE DB-41, FORM A CONTACTOR

Cat. No.	Description
	Forms BB, CC, DD, EE, FF and GG indicate contactors having Form 4 interlocking contacts on the first, second, third, fourth, fifth and sixth units respectively.
	<i>Following are the parts:</i>
30426	OPERATING MAGNET SPOOL, complete, DB-41-A-6.
30427	Operating magnet spool, complete, DB-41-A-7.
34268	Operating magnet spool, complete, DB-41-A-8.
40127	Operating magnet spool, complete, DB-41-A-9.
40173	Operating magnet spool, complete, DB-41-A-10.
40174	Operating magnet spool, complete, DB-41-A-11.
40175	Operating magnet spool, complete, DB-41-A-12.
40176	Operating magnet spool, complete, DB-41-A-13.
40177	Operating magnet spool, complete, DB-41-A-14.
40178	Operating magnet spool, complete, DB-41-A-15.
40196	Operating magnet spool, complete, DB-41-A-16.
47547	Operating magnet spool, complete, DB-41-A-18.
47548	Operating magnet spool, complete, DB-41-A-19.
22778	Copper terminal for magnet spool.
19682	Screw fastening terminal in position (14-24, $\frac{3}{8}$ in. r.h. blued).
22780	Lock washer for No. 19682 ($\frac{17}{64}$ in. by $\frac{1}{2}$ in. by 0.060 in.).
30428	TOP PLATE, with pillars and magnet pole.
30429	Mechanism plate.
30351	Cap screw fastening No. 30429 to frame ($\frac{1}{2}$ in.-13, $1\frac{1}{4}$ in. hex. h. slot.).
16131	Lock washer for No. 30351.
30430	Contact lever.
30431	Hinge pin for lever ($\frac{7}{16}$ in. by $4\frac{1}{16}$ in. Tob. brz. sp'l).
30354	Plunger for lever.
30432	Pin for plunger and contact finger ($\frac{7}{16}$ in. by $4\frac{5}{16}$ in.).
4030	Spring cotter for No. 30432 ($\frac{3}{32}$ in. by $\frac{5}{8}$ in.).
30356	Brass disk for plunger and magnet pole ($1\frac{1}{2}$ in. by 0.062 in.).
30433	CONTACT FINGER, complete, includes contact tip and shunt.
30434	Contact tip.
30435	Copper shunt, with phosphor bronze washer plates.
56743	Screw fastening contact tip and shunt to finger (14-24, $\frac{1}{2}$ in. f.h.).
30360	Shunt guard.
11096	Short screw fastening shunt and guard to mechanism plate (14-24, $\frac{5}{8}$ in. r.h. blued).
10264	Long screw fastening shunt and guard to mechanism plate (14-24, 1 in. r.h. blued).
22780	Lock washer for Nos. 11096, 10264 ($\frac{17}{64}$ in. by $\frac{1}{2}$ in. by 0.060 in.).
30436	Pressure spring for contact finger.
23177	Fiber button for spring.
30528	Fixed contact base.
30434	Contact tip.
56743	Screw fastening contact tip to base (14-24, $\frac{1}{2}$ in. f.h.).
10298	Screw fastening contact base and blowout coil to arc chute (14-24, $\frac{7}{8}$ in. f.h.).
30437	Blowout coil, complete, with terminals.
30364	Binding screw for No. 30437 ($\frac{5}{16}$ in.-18, 1 in. r.h. round point blued sp'l).
25483	Check nut for No. 30364 ($\frac{5}{16}$ in.-18, hex. blued, sp'l).
30438	Terminal for frame.
30530	Binding screw for No. 30438 ($\frac{5}{16}$ in.-18, $\frac{7}{8}$ in. r.h. round point blued sp'l).
25483	Check nut for No. 30530 ($\frac{5}{16}$ in.-18, hex. blued sp'l).
30439	POLE PIECE, two parts, with blowout coil core and cap screw.
30368	Cap screw for No. 30439 ($\frac{5}{16}$ in.-18, $\frac{1}{2}$ in. hex. h.).
30440	Fiber sleeve for blowout coil core.
30441	ARC CHUTE, complete, includes screws and washers for fastening in position.
51899	Screw fastening chute in position ($\frac{5}{16}$ in.-18, 1 in. r.h. blued).
47173	Lock washer for No. 51899 ($\frac{21}{64}$ in. by $\frac{5}{8}$ in. by 0.0625 in.).
30442	Back plate.

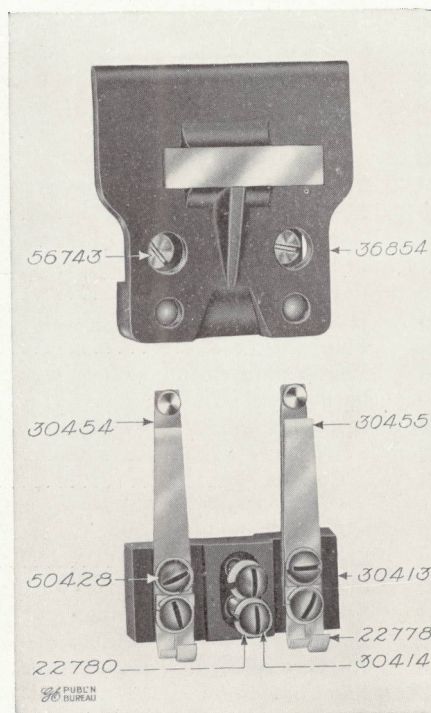
4970-12 Parts of Contactors and Interlocks

TYPE DB-41, FORM A CONTACTOR

Cat. No.	Description
30373	Side plate (right-hand).....
30374	Side plate (left-hand).....
30443	Upper end plate.....
30444	Arcing plate, upper.....
30445	Arcing plate, lower.....
30405	Arcing plate, side.....
30446	Bolt for chute (10-32, 3 1/2 in. hex. h. brass).....
882	Screw fastening back plate to side plate (No. 8, 1 in. f.h.).....
9962	Nut for bolt (10-32, hex. brass).....



FORM 1 INTERLOCKING CONTACT FOR DB-41 CONTACTOR

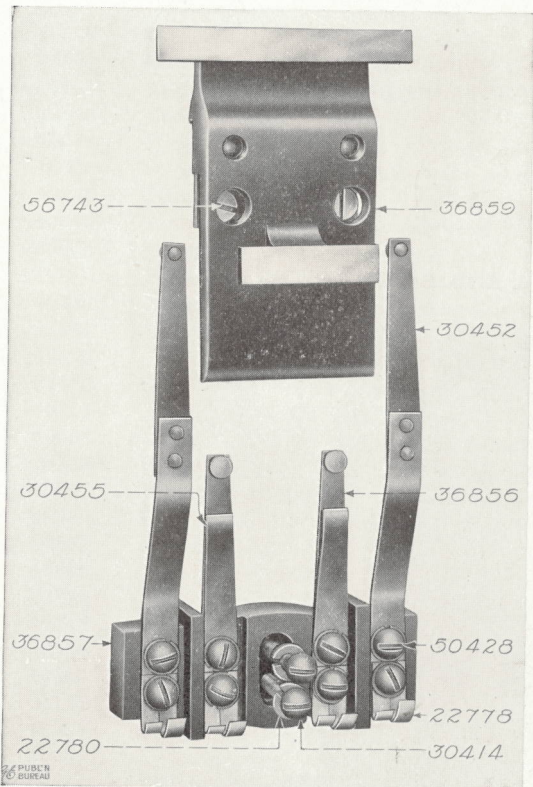


FORM 2 INTERLOCKING CONTACT FOR DB-41 CONTACTOR

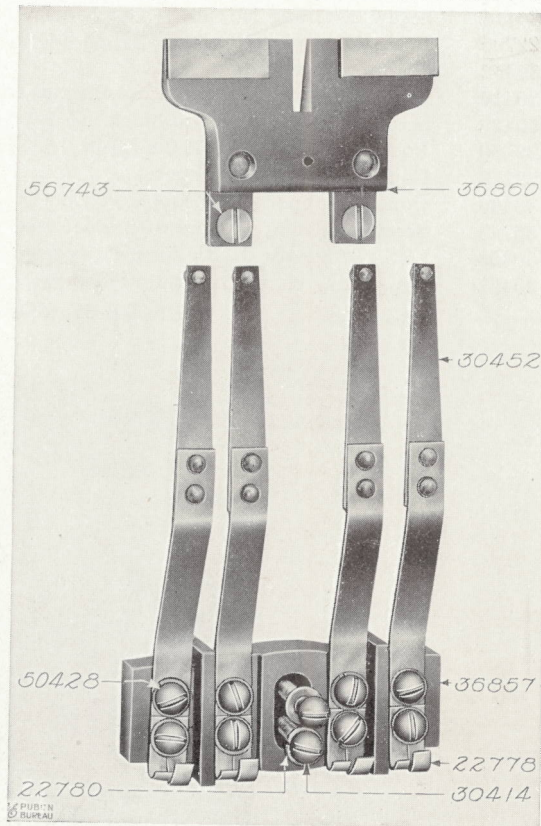
- 14192 Screw fastening upper end plate to side plates (No. 8, 5/8 in. f.h.).....
- NOTE.—The following are top plates for other contactors of the DB-41 series, all parts of the contactors except the top plates being identical:
- 30447 TOP PLATE, with pillars and magnet poles for DB-42 contactors.....
- 30448 Top plate, with pillars and magnet poles for DB-43 contactors.....
- 30449 Top plate, with pillars and magnet poles for DB-44 contactors.....
- 30450 Top plate, with pillars and magnet poles for DB-45 contactors.....
- 30451 Top plate, with pillars and magnet poles for DB-46 contactors.....
- Following are the parts of the Form 1 interlocking contact:
- 30413 Contact block.....
- 30414 Screw fastening No. 30413 to mechanism plate (14-24, 1 3/8 in. r.h. blued).....
- 22780 Lock washer for No. 30414 (1 1/4 in. by 1/2 in. by 0.060 in.).....
- 30452 Contact finger, complete.....

TYPE DB-41, FORM A CONTACTOR

Cat. No.	Description
30416	Contact finger, with contact tip and rivets.....
50428	Screw fastening finger to block (14-24, 1/2 in. r.h. blued).....
22780	Lock washer for No. 50428 (17/64 in. by 1/2 in. by 0.060 in.).....
22778	Copper terminal for finger.....
36853	Contact support, with copper contact.....
56743	Screw fastening support to contact lever (14-24, 1/2 in. f.h.).....
<i>Following are the parts of the Form 2 inverted interlocking contact:</i>	
30413	Contact block.....
30414	Screw fastening No. 30413 to mechanism plate (14-24, 1 3/8 in. r.h. blued).....



FORM 3 INTERLOCKING CONTACT FOR DB-41 CONTACTOR



FORM 4 INTERLOCKING CONTACT FOR DB-41 CONTACTOR

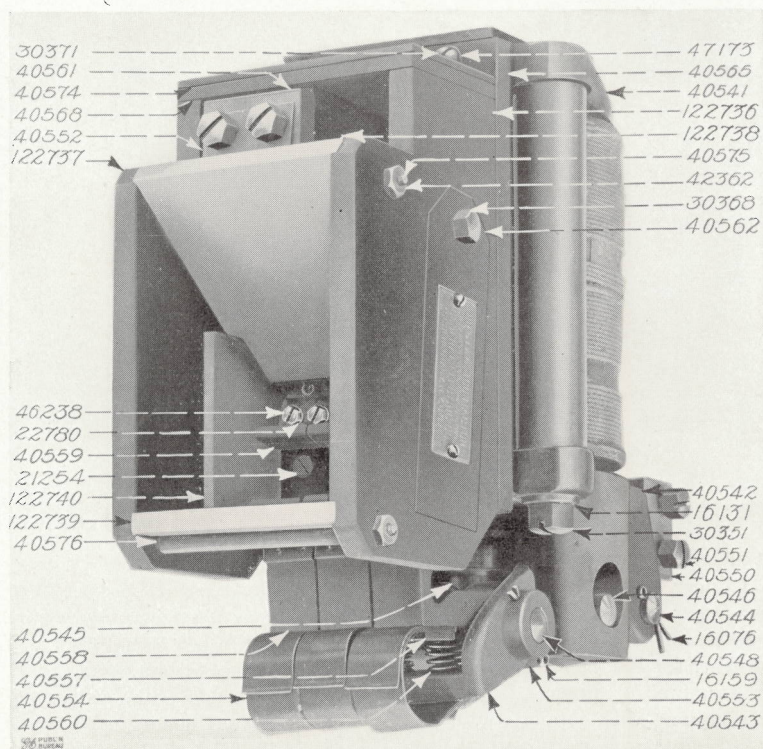
22780	Lock washer for No. 30414 (17/64 in. by 1/2 in. by 0.060 in.).....
30454	Contact finger with contact tip.....
30455	Contact finger stop.....
50428	Screw fastening Nos. 30454, 30455 to block (14-24, 1/2 in. r.h. blued).....
22780	Lock washer for No. 50428 (17/64 in. by 1/2 in. by 0.060 in.).....
22778	Copper terminal for finger.....
36854	Contact support with copper contact.....
56743	Screw fastening support to contact lever (14-24, 1/2 in. f.h.).....
<i>Following are the parts of the Form 3 interlocking contact:</i>	
36857	Contact block.....
30414	Screw fastening No. 36857 to mechanism plate (14-24, 1 3/8 in. r.h. blued).....
22780	Lock washer for No. 30414 (17/64 in. by 1/2 in. by 0.060 in.).....
30452	Long contact finger, complete.....
30416	Contact finger with contact tip and rivets.....

4970-14 *Parts of Contactors and Interlocks*

TYPE DB-41, FORM A CONTACTOR

Cat. No.	Description
36856	Short contact finger with contact tip.....
30455	Contact finger stop.....
50428	Screw fastening Nos. 30452, 36856, 30455 to block (14-24, 1/2 in. r.h. blued).....
22780	Lock washer for No. 50428 (1 1/4 in. by 1/2 in. by 0.060 in.).....
22778	Copper terminal for finger.....
36859	Contact support with copper contacts.....
56743	Screw fastening support to contact lever (14-24, 1/2 in. f.h.).....
<i>Following are the parts of the Form 4 interlocking contact:</i>	
36857	Contact block.....
30414	Screw fastening No. 36857 to mechanism plate (14-24, 1 3/8 in. r.h. blued).....
22780	Lock washer for No. 30414 (1 1/4 in. by 1/2 in. by 0.060 in.).....
30452	Contact finger, complete.....
30416	Contact finger with contact tip and rivets.....
50428	Screw fastening finger to block (14-24, 1/2 in. r.h. blued).....
22780	Lock washer for No. 50428 (1 1/4 in. by 1/2 in. by 0.060 in.).....
22778	Copper terminal for finger.....
36860	Contact support with copper contacts.....
56743	Screw fastening support to contact lever (14-24, 1/2 in. f.h.).....
30456	INSULATION TUBE for interlock wires (10 1/2 in. long, 5/8 in. hole).....
30457	Supporting clamp for insulation tube.....

TYPE DB-51, FORMS A AND B CONTACTORS



Following are the parts:

40538	OPERATING MAGNET SPOOL, complete, DB-51-A-1 or B-1.....
40539	Operating magnet spool, complete, DB-51-A-2 or B-2.....
40540	Operating magnet spool, complete, DB-51-A-3 or B-3.....
46227	Operating magnet spool, complete, DB-51-A-4 or B-4.....
46228	Operating magnet spool, complete, DB-51-A-5 or B-5.....

TYPE DB-51, FORMS A AND B CONTACTORS

Cat. No.	Description
46229	Operating magnet spool, complete, DB-51-A-6 or B-6.....
46230	Operating magnet spool, complete, DB-51-A-7 or B-7.....
46235	Operating magnet spool, complete, DB-51-A-8 or B-8.....
46236	Operating magnet spool, complete, DB-51-A-9 or B-9.....
46237	Operating magnet spool, complete, DB-51-A-10 or B-10.....
47545	Operating magnet spool, complete, DB-51-A-11 or B-11.....
47546	Operating magnet spool, complete, DB-51-A-12 or B-12.....
22778	Copper terminal for magnet spool.....
19682	Screw fastening terminal in position (14-24, $\frac{3}{8}$ in. r.h. blued).....
22780	Lock washer for No. 19682 ($\frac{3}{16}$ in. by $\frac{1}{2}$ in. by 0.060 in.).....
40541	TOP PLATE with pillars and magnet pole.....
40542	Mechanism plate.....
30351	Cap screw fastening No. 40542 to top plate ($\frac{1}{2}$ in.-13, $1\frac{1}{4}$ in. hex. h. slot.).....
16131	Lock washer for No. 30351.....
40543	Contact lever.....
40544	Hinge pin for lever ($\frac{5}{8}$ in. by $4\frac{1}{16}$ in. Tob. brz.).....
16076	Spring cotter for No. 40544 ($\frac{1}{8}$ in. by 1 in.).....
40545	Plunger for lever.....
40546	Pin for plunger and contact lever ($\frac{5}{8}$ in. by $5\frac{1}{16}$ in. Tob. brz. sp'l).....
32908	Locking screw for No. 40546 (8-32, 1 in. headless, sp'l).....
40549	Brass disk for plunger and magnet pole ($1\frac{3}{4}$ in. by 0.060 in.).....
40550	Terminal for mechanism plate.....
40551	Clamping screw for No. 40550 ($\frac{3}{8}$ in.-16, $\frac{3}{4}$ in. hex. h. slot. cap screw).....
40552	Lock washer plate for No. 40551.....
29423	Screw fastening terminal and laminated shunt to mechanism plate (14-24, $1\frac{1}{4}$ in. f.h.).....
40553	Laminated shunt with guards, for contact lever and mechanism plate.....
40554	Laminated shunt with guards, for contact finger and lever.....
56743	Screw fastening Nos. 40553, 40554 in position (14-24, $\frac{1}{2}$ in. f.h.).....
40557	Washer plate for No. 56743.....
40558	CONTACT FINGER, complete, with contact tip.....
40559	Contact tip.....
46238	Cap screw fastening contact tip to finger (14-24, $\frac{1}{2}$ in. hex. h. slot. blued).....
22780	Lock washer for No. 46238 ($\frac{1}{4}$ in. by $\frac{1}{2}$ in. by 0.060 in.).....
40548	Pin for contact fingers and contact lever ($\frac{5}{8}$ in. by $4\frac{1}{16}$ in.).....
16159	Spring cotter for No. 40548 ($\frac{1}{8}$ in. by $1\frac{1}{4}$ in.).....
40560	Pressure spring for contact finger.....
23177	Fiber button for spring.....
40561	BLOWOUT COIL, complete, with terminal, contact base and contact tip.....
40559	Contact tip.....
46238	Cap screw fastening contact tip to base (14-24, $\frac{1}{2}$ in. hex. h. slot. blued).....
22780	Lock washer for No. 46238 ($\frac{1}{4}$ in. by $\frac{1}{2}$ in. by 0.060 in.).....
40551	Clamping screw for blowout coil terminal ($\frac{3}{8}$ in.-16, $\frac{3}{4}$ in. hex. h. slot. cap screw).....
40552	Lock washer plate for No. 40551.....
307	Long screw fastening No. 40561 to arc chute (14-24, 1 in. f.h.).....
56743	Short screw fastening No. 40561 to arc chute (14-24, $\frac{1}{2}$ in. f.h.).....
40562	POLE PIECE, two parts, with blowout coil core and cap screw.....
30368	Cap screw for No. 40562 ($\frac{5}{16}$ in.-18, $\frac{1}{2}$ in. hex. h.).....
40563	Fiber sleeve for blowout coil core.....

NOTE.—The DB-51-A and B contactors as originally manufactured were fitted with an arc chute having the lower arcing plate in a horizontal position as shown in the illustration. The contactors as now manufactured are fitted with an arc chute having the lower arcing plate at an angle of approximately 25 deg. as shown in the illustration of the DB-151-A contactor, page 27.

Customers in ordering arc chute parts affected by this change should be careful to ascertain which design of arc chute they have and order from the following:

4970-16 *Parts of Contactors and Interlocks*

TYPE DB-51, FORMS A AND B CONTACTORS

Cat. No.	Description
122735	ARC CHUTE, complete, having lower arcing plate in a horizontal position, includes screws and washers for fastening in position
40564	Arc chute, complete, having lower arcing plate at an angle of approximately 25 deg., includes screws and washers for fastening in position
30371	Screw fastening chute to top plate ($\frac{5}{16}$ in.-18, 1 $\frac{1}{4}$ in. r.h. blued)
21254	Screw fastening chute to mechanism plate ($\frac{5}{16}$ in.-18, 1 $\frac{1}{4}$ in. f.h.)
47173	Lock washer for No. 30371 ($\frac{3}{4}$ in. by $\frac{5}{8}$ in. by 0.0625 in.)
40565	Back plate
122736	Side plate, right-hand, for No. 122735
40566	Side plate, right-hand, for No. 40564
122737	Side plate, left-hand, for No. 122735
40567	Side plate, left-hand, for No. 40564
122738	Arcing plate, upper, for No. 122735
40569	Arcing plate, upper, for No. 40564
122739	Arcing plate, lower, for No. 122735
40570	Arcing plate, lower, for No. 40564
122740	Arcing plate, side, for No. 122735
40571	Arcing plate, side, for No. 40564
40568	Upper end plate
40572	Outside insulation for back plate
40573	Inside insulation for back plate
40574	Insulation for upper end plate
14246	Screw fastening No. 40573 to back plate (10-32, $\frac{5}{8}$ in. f.h.)
882	Screw fastening back plate to side plates (No. 8, 1 in. f.h.)
1013	Screw fastening insulation and upper end plate to side plates (No. 8, $\frac{3}{4}$ in. f.h.)
40575	Stud for chute (10-32, 5 $\frac{3}{8}$ in. long)
40576	Fiber sleeve for stud
42362	Nut for Nos. 14246, 40575 (10-32, $\frac{3}{2}$ in. thick hex. brass sp'l)

TYPE DB-51, FORM C CONTACTOR

Following is the only part of the DB-51-C contactor which differs from those of the DB-51-B:

40580	BLOWOUT COIL, complete, with terminal, contact base and contact tip
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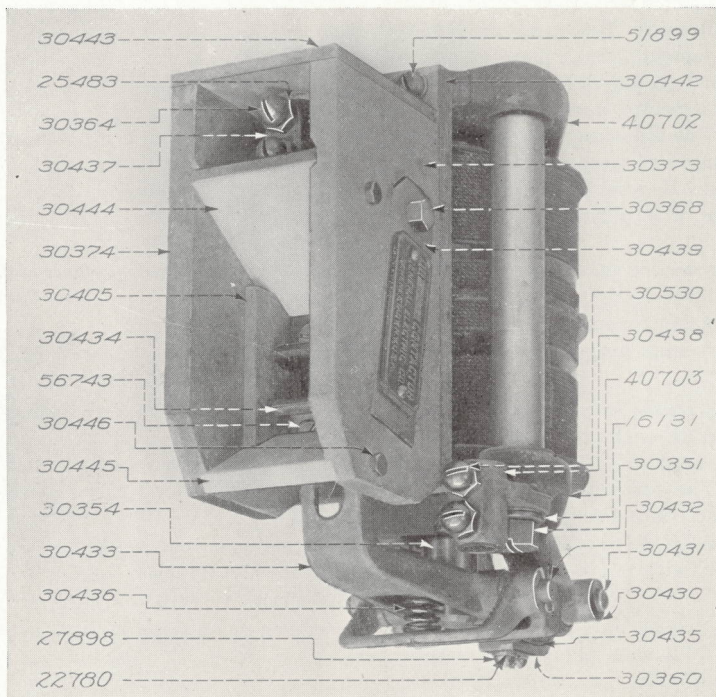
TYPE DB-61, FORM A CONTACTOR

Following are the parts:

30426	OPERATING MAGNET SPOOL, complete, DB-61-A-6
30427	Operating magnet spool, complete, DB-61-A-7
34268	Operating magnet spool, complete, DB-61-A-8
40127	Operating magnet spool, complete, DB-61-A-9
40173	Operating magnet spool, complete, DB-61-A-10
40174	Operating magnet spool, complete, DB-61-A-11
40175	Operating magnet spool, complete, DB-61-A-12
40176	Operating magnet spool, complete, DB-61-A-13
40177	Operating magnet spool, complete, DB-61-A-14
40178	Operating magnet spool, complete, DB-61-A-15
40196	Operating magnet spool, complete, DB-61-A-16
47547	Operating magnet spool, complete, DB-61-A-18
47548	Operating magnet spool, complete, DB-61-A-19
22778	Copper terminal for magnet spool
19682	Screw fastening terminal in position (14-24, $\frac{3}{8}$ in. r.h. blued)
22780	Lock washer for No. 19682 ($\frac{3}{4}$ in. by $\frac{1}{2}$ in. by 0.060 in.)
40702	TOP PLATE with pillars and magnet pole
40703	Mechanism plate
30351	Cap screw fastening No. 40703 to frame ($\frac{1}{2}$ in.-13, 1 $\frac{1}{4}$ in. hex. h. slot)
16131	Lock washer for No. 30351

TYPE DB-61, FORM A CONTACTOR

Cat. No.	Description
30430	Contact lever.....
30431	Hinge pin for lever ($\frac{7}{16}$ in. by $4\frac{1}{16}$ in. Tob. brz. sp'l).....
30354	Plunger for lever.....
30432	Pin for plunger and contact finger ($\frac{7}{16}$ in. by $4\frac{5}{16}$ in.).....
4030	Spring cotter for No. 30432 ($\frac{3}{32}$ in. by $\frac{5}{8}$ in.).....
30356	Brass disk for plunger and magnet pole ($1\frac{1}{2}$ in. by 0.062 in.).....
30433	CONTACT FINGER, complete, includes contact tip and shunt.....
30434	Contact tip.....
30435	Copper shunt with phosphor bronze washer plates.....



56743	Screw fastening contact tip and shunt to finger (14-24, $\frac{1}{2}$ in. f.h.).....
30360	Shunt guard.....
27898	Screw fastening shunt and guard to mechanism plate (14-24, $1\frac{1}{4}$ in. r.h. blued).....
22780	Lock washer for No. 27898 ($\frac{3}{4}$ in. by $\frac{1}{2}$ in. by 0.060 in.).....
30436	Pressure spring for contact finger.....
23177	Fiber button for spring.....
30528	Fixed contact base.....
30434	Contact tip.....
56743	Screw fastening contact tip to base (14-24, $\frac{1}{2}$ in. f.h.).....
10298	Screw fastening contact base and blowout coil to arc chute (14-24, $\frac{7}{8}$ in. f.h.).....
30437	Blowout coil, complete, with terminals.....
30364	Binding screw for No. 30437 ($\frac{5}{16}$ in.-18, 1 in. r.h. round point blued, sp'l).....
25483	Check nut for No. 30364 ($\frac{5}{16}$ in.-18, hex. blued, sp'l).....
30438	Terminal for frame.....
30530	Binding screw for No. 30438 ($\frac{5}{16}$ in.-18, $\frac{7}{8}$ in. r.h. round point, blued, sp'l).....
25483	Check nut for No. 30530 ($\frac{5}{16}$ in.-18, hex. blued, sp'l).....
30439	POLE PIECE, two parts, with blowout coil core and cap screw.....
30368	Cap screw for No. 30439 ($\frac{5}{16}$ in.-18, $\frac{1}{2}$ in. hex. h.).....
30440	Fiber sleeve for blowout coil core.....

4970-18 *Parts of Contactors and Interlocks*

TYPE DB-61, FORM A CONTACTOR

Cat. No.	Description
30441	ARC CHUTE, complete, includes screws and washers for fastening in position.....
51899	Screw fastening chute in position ($\frac{5}{16}$ in.—18, 1 in. r.h. blued).....
47173	Lock washer for No. 51899 ($\frac{3}{16}$ in. by $\frac{5}{8}$ in. by 0.0625 in.).....
30442	Back plate.....
30373	Side plate (right-hand).....
30374	Side plate (left-hand).....
30443	Upper end plate.....
30444	Arcing plate, upper.....
30445	Arcing plate, lower.....
30405	Arcing plate, side.....
30446	Bolt for chute (10-32, $3\frac{1}{2}$ in. hex. h. brass).....
882	Screw fastening back plate to side plate (No. 8, 1 in. f.h.).....
9962	Nut for bolt (10-32, hex. brass).....
14192	Screw fastening upper end plate to side plates (No. 8, $\frac{5}{8}$ in. f.h.).....
	NOTE.—The following are top plates for other contactors of the DB-61-A series, all parts of the contactors, except top plates, being identical.
40704	TOP PLATE, with pillars and magnet poles for DB-62-A contactor.....
40705	Top plate, with pillars and magnet poles for DB-63-A contactor.....

TYPE DB-61, FORM B CONTACTOR

Following are the only parts of the DB-61-B contactor which differ from those of the DB-61-A:

40706	Contact lever.....
40707	Hinge bracket for interlock.....
32953	Screw fastening hinge bracket and shunt to mechanism base plate (14-24, $1\frac{1}{2}$ in. r.h. blued)

TYPE DB-61, FORM C CONTACTOR

Following are the only parts of the DB-61-C contactor which differ from those of the DB-61-A:

30428	TOP PLATE with pillars and magnet pole.....
40708	Mechanism plate.....
	NOTE.—The following are top plates for other contactors of the DB-61-C series, all parts of the contactors except the top plates being identical.
30447	TOP PLATE, with pillars and magnet poles for DB-62-C contactor.....
30448	Top plate, with pillars and magnet poles for DB-63-C contactor.....

TYPE DB-61, FORM D CONTACTOR

Following are the only parts of the DB-61-D contactor which differ from those of the DB-61-A:

30428	TOP PLATE with pillars and magnet pole.....
40709	Mechanism plate.....
40710	Contact lever with pin and rivet.....
40711	Hinge bracket for interlock.....
307	Screw fastening No. 40711 to mechanism plate (14-24, 1 in. f.h.).....
51668	Hinge pin for interlock ($\frac{3}{8}$ in. by $3\frac{1}{4}$ in.).....
4030	Spring cotter for No. 51668 ($\frac{3}{32}$ in. by $\frac{5}{8}$ in.).....
40712	Shunt guard.....
40713	Screw fastening shunt and guard to mechanism plate (14-24, $1\frac{1}{4}$ in. f.h. blued).....
	NOTE.—The following are top plates for other contactors of the DB-61-D series, all parts of the contactors except the top plates being identical.
30447	TOP PLATE with pillars and magnet poles for DB-62-D contactor.....
30448	Top plate with pillars and magnet poles for DB-63-D contactor.....

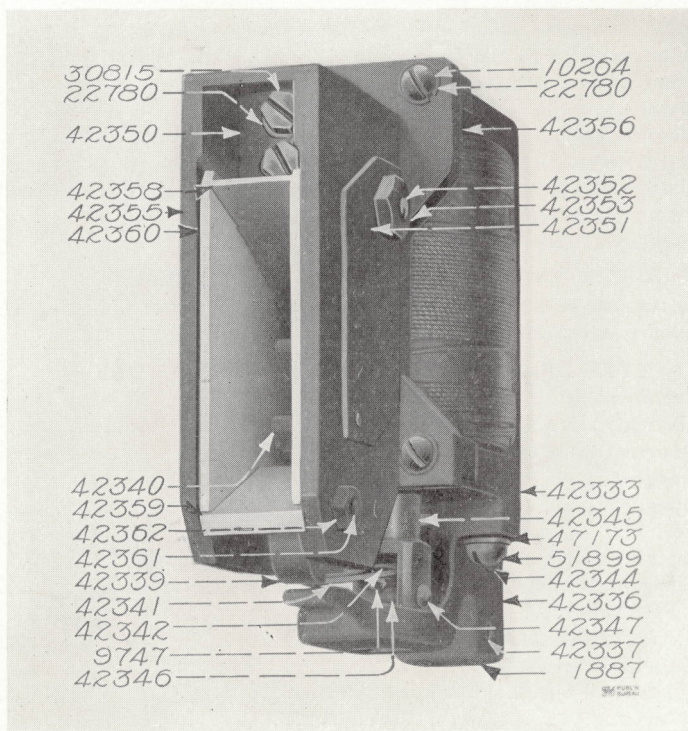
TYPE DB-81, FORM A CONTACTOR

Following are the parts:

42328	OPERATING MAGNET SPOOL, complete, DB-81-A-1.....
42329	Operating magnet spool, complete, DB-81-A-2.....
42330	Operating magnet spool, complete, DB-81-A-3.....
44086	Copper terminal for magnet spool.....
35807	Screw fastening terminal in position (10-32, $\frac{3}{8}$ in. r.h. blued).....
40582	Lock washer for No. 35807 ($\frac{1}{16}$ in. by $\frac{1}{32}$ in. by 0.044 in.).....
42333	MAGNET FRAME.....

TYPE DB-81, FORM A CONTACTOR

Cat. No.	Description
42334	Set screw for frame (14-24, 1 1/8 in. headless, sp'l)
42335	Magnet core
42336	Contact support and terminal block, complete
42337	Terminal bushing
1887	Clamping screw for No. 42336 (14-24, 3/4 in. f.h.)
51899	Screw fastening No. 42336 to magnet frame (5/8 in.-18, 1 in. r.h. blued)
47173	Lock washer for No. 51899 (3/4 in. by 5/8 in. by 0.0625 in.)



42339	HINGED CONTACT FINGER, complete, with contact tip and shunt
42340	Contact tip
30815	Cap screw fastening No. 42340 to finger (14-24, 5/8 in. hex. h. slot. blued)
22780	Lock washer for No. 30815 (3/4 in. by 1/2 in. by 0.060 in.)
42341	Hinge with spring and rivet
42342	Laminated shunt
10076	Screw fastening shunt to contact support (10-32, 3/8 in. f.h.)
42343	Washer plate for No. 10076
42344	Hinge pin for contact finger (3/8 in. by 1 1/2 in. Tob. brz.)
4030	Spring cotter for No. 42344 (3/32 in. by 5/8 in.)
42345	Plunger for hinged contact finger
42346	Bearing sleeve for plunger
42347	Pin for bearing sleeve (3/8 in. by 7/8 in.)
9747	Spring cotter for Nos. 42346, 42347 (3/2 in. by 1 in.)
42348	Brass tube for plunger and magnet core
42349	Brass disk for plunger and magnet core (3/4 in. by 0.030 in.)
42350	BLOWOUT COIL, complete, with terminal, contact base and contact tip
42340	Contact tip
30815	Cap screw fastening No. 42340 to contact base and clamping screw for terminal (14-24, 5/8 in. hex. h. slot. blued)

4970-20 *Parts of Contactors and Interlocks***TYPE DB-81, FORM A CONTACTOR**

Cat. No.	Description
22780	Lock washer for No. 30815 ($\frac{17}{64}$ in. by $\frac{1}{2}$ in. by 0.060 in.).....
42337	Terminal bushing.....
2028	Large screw fastening No. 42350 to arc chute (14-24, $\frac{5}{8}$ in. f.h.).....
14246	Small screw fastening No. 42350 to arc chute (10-32, $\frac{3}{8}$ in. f.h.).....
42351	POLE PIECE, two parts, with blowout coil core.....
42352	Blowout coil core ($\frac{3}{8}$ in.-16, $2\frac{1}{8}$ in. hex. h. fin. bolt).....
42353	Nut for No. 42352 ($\frac{3}{8}$ in.-16, $\frac{1}{4}$ in. thick, $\frac{11}{16}$ in. across flats, hex. cham. one side).....
42354	Insulation sleeve for No. 42352.....
42355	ARC CHUTE, complete, includes screws and washers for fastening in position.....
10264	Screw fastening chute to magnet frame (14-24, 1 in. r.h. blued).....
22780	Lock washer for No. 10264 ($\frac{17}{64}$ in. by $\frac{1}{2}$ in. by 0.060 in.).....
42356	Back plate.....
42358	Arcing plate, upper.....
42359	Arcing plate, lower.....
42360	Arcing plate, side.....
42361	Cap screw for chute (10-32, $1\frac{7}{8}$ in. hex. h. brass).....
42362	Nut for No. 42361 (10-32, hex. brass, sp'l).....

TYPE DB-81, FORM B CONTACTOR

<i>Following is the only part of the DB-81-B contactor which differs from those of the DB-81-A:</i>	
42363	Contact support and terminal block, complete.....

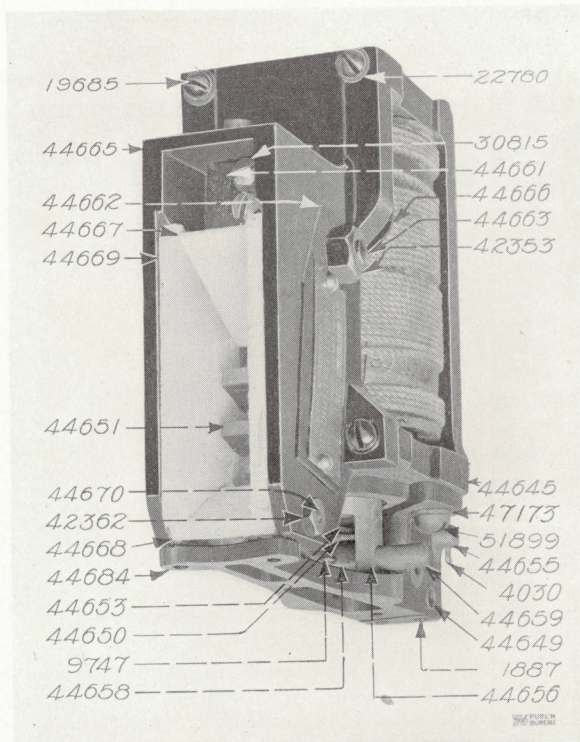
TYPE DB-91, FORMS A AND D CONTACTORS

Following are the parts:

42331	OPERATING MAGNET SPOOL, complete, DB-91-D-1.....
42338	Operating magnet spool, complete, DB-91-D-2.....
42357	Operating magnet spool, complete, DB-91-D-3.....
47549	Operating magnet spool, complete, DB-91-D-4.....
44086	Copper terminal for magnet spool.....
35807	Screw fastening terminal in position (10-32, $\frac{3}{8}$ in. r.h. blued).....
40582	Lock washer for No. 35807 ($\frac{3}{32}$ in. by $\frac{13}{32}$ in. by 0.044 in.).....
44645	MAGNET FRAME.....
44646	Set screw for frame (14-24, 1 in. headless, sp'l).....
44647	Magnet core with brass sleeve.....
44684	Contact support and terminal block, complete.....
44649	Terminal bushing.....
1887	Clamping screw for No. 44684 (14-24, $\frac{3}{4}$ in. f.h.).....
51899	Screw fastening No. 44684 to magnet frame ($\frac{5}{16}$ in.-18, 1 in. r.h. blued).....
47173	Lock washer for No. 51899 ($\frac{17}{64}$ in. by $\frac{5}{8}$ in. by 0.0625 in.).....
44650	HINGED CONTACT FINGER, complete, with contact tip and shunt.....
44651	Contact tip.....
30815	Cap screw fastening No. 44651 to finger (14-24, $\frac{5}{8}$ in. hex. h. slot. blued).....
22780	Lock washer for No. 30815 ($\frac{17}{64}$ in. by $\frac{1}{2}$ in. by 0.060 in.).....
44652	Hinge with spring and rivet.....
44653	Laminated shunt.....
10076	Screw fastening shunt to contact support (10-32, $\frac{3}{8}$ in. f.h.).....
44654	Washer plate for No. 10076.....
44655	Hinge pin for contact finger ($\frac{3}{8}$ in. by 2 in. Tob. brz.).....
4030	Spring cotter for No. 44655 ($\frac{3}{32}$ in. by $\frac{5}{8}$ in.).....
44656	Plunger with bearing pin for hinged contact finger.....
44657	Bearing pin for No. 44656.....
44658	Bearing sleeve for plunger.....
44659	Pin for bearing sleeve ($\frac{3}{8}$ in. by $2\frac{5}{8}$ in.).....
9747	Spring cotter for Nos. 44658, 44659 ($\frac{3}{32}$ in. by 1 in.).....
44660	Brass disk for plunger and magnet core ($1\frac{7}{32}$ in. by 0.030 in.).....
44661	BLOWOUT COIL, complete, with terminal, contact base and contact tip.....
44651	Contact tip.....

TYPE DB-91, FORMS A AND D CONTACTORS

Cat. No.	Description
30815	Cap screw fastening No. 44651 to contact base and clamping screw for terminal (14-24, 5/8 in. hex. h. slot. blued).....
22780	Lock washer for No. 30815 (1 1/4 in. by 1/2 in. by 0.060 in.).....
44649	Terminal bushing.....
2028	Large screw fastening No. 44661 to arc chute (14-24, 5/8 in. f.h.).....
14246	Small screw fastening No. 44661 to arc chute (10-32, 5/8 in. f.h.).....



44662	POLE PIECE, two parts, with blowout coil core.....
44663	Blowout coil core (3/8 in.-16, 2 3/8 in. hex. h. semi-fin. bolt).....
42353	Nut for No. 44663 (3/8 in.-16, 1/4 in. thick, 1 1/8 in. across flats, hex. cham. one side).....
44664	Insulation sleeve for No. 44663.....
44665	ARC CHUTE, complete, includes screws and washers for fastening in position.....
19685	Screw fastening chute to magnet frame (14-24, 7/8 in. r.h. blued).....
22780	Lock washer for No. 19685 (1 1/4 in. by 1/2 in. by 0.060 in.).....
44666	Back plate.....
10214	Screw fastening No. 44666 to chute (No. 8, 1/2 in. f.h.).....
44667	Arcing plate, upper.....
44668	Arcing plate, lower.....
44669	Arcing plate, side.....
44670	Cap screw for chute (10-32, 2 1/8 in. hex. h. brass).....
42362	Nut for No. 44670 (10-32, hex. brass sp'1).....

TYPE DB-91, FORM C CONTACTOR

Following are the parts of the DB-91-C contactor which differ from those of the DB-91-D:

44672	MAGNET FRAME.....
44674	Contact support and terminal block, complete,
44675	Terminal bushing.....

4970-22 *Parts of Contactors and Interlocks*

TYPE DB-91, FORM C CONTACTOR

Cat. No.	Description
44676	HINGED CONTACT FINGER, complete, with contact tip and shunt.....
44677	Hinge with spring and rivet.....
44678	Laminated shunt.....
44679	BLOWOUT COIL, complete, with terminal, contact base and contact tip.....
44675	Terminal bushing.....
44680	ARC CHUTE, complete, includes screws and washers for fastening in position.....
44681	Back plate.....
44682	Arcing plate, upper.....
44683	Arcing plate, lower.....
42360	Arcing plate, side.....

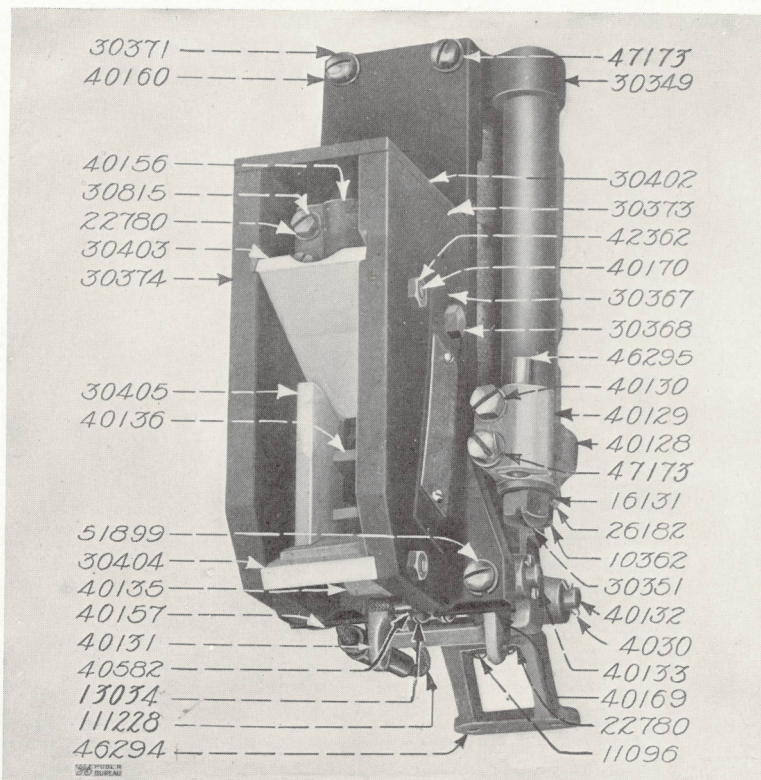
TYPE DB-131, FORMS A AND B CONTACTORS

Following are the parts:

30345	OPERATING MAGNET SPOOL, complete, DB-131-A-3.....
30346	Operating magnet spool, complete, DB-131-A-4.....
30347	Operating magnet spool, complete, DB-131-A-5.....
30348	Operating magnet spool, complete, DB-131-A-6.....
40125	Operating magnet spool, complete, DB-131-A-7.....
40126	Operating magnet spool, complete, DB-131-A-8.....
47550	Operating magnet spool, complete, DB-131-A-9.....
47551	Operating magnet spool, complete, DB-131-A-10.....
47552	Operating magnet spool, complete, DB-131-A-11.....
22778	Copper terminal for magnet spool.....
19682	Screw fastening terminal in position (14-24, $\frac{3}{8}$ in. r.h. blued).....
22780	Lock washer for No. 19682 ($\frac{17}{64}$ in. by $\frac{1}{2}$ in. by 0.060 in.).....
30349	TOP PLATE with pillars and magnet pole.....
40128	Mechanism plate.....
42537	Bushing for mechanism plate and plunger.....
40129	Terminal for mechanism plate.....
46295	Bushing for terminal.....
40130	Clamping screw for terminal ($\frac{5}{16}$ in.-18, $\frac{3}{8}$ in. hex. h. slot. blued).....
47173	Lock washer for No. 40130 ($\frac{21}{64}$ in. by $\frac{5}{8}$ in. by 0.0625 in.).....
30351	Cap screw fastening No. 40128 to top plate and long screw fastening No. 40129 to mechanism plate ($\frac{1}{2}$ in.-13, $1\frac{1}{4}$ in. hex. h. slot.).....
10362	Short cap screw fastening No. 40129 to mechanism plate ($\frac{3}{8}$ in.-16, $\frac{1}{8}$ in. hex. h. slot.).....
16131	Lock washer for No. 30351.....
26182	Lock washer for No. 10362.....
40131	Contact lever.....
40132	Hinge pin for lever ($\frac{7}{16}$ in. by $3\frac{1}{2}$ in. Tob. bronze).....
4030	Spring cotter for No. 40132 ($\frac{3}{32}$ in. by $\frac{5}{8}$ in.).....
30354	Plunger for lever.....
40133	Pin for plunger and contact lever ($\frac{7}{16}$ in. by $3\frac{5}{16}$ in.).....
4030	Spring cotter for No. 40133 ($\frac{3}{32}$ in. by $\frac{5}{8}$ in.).....
40134	Brass disk for plunger and magnet pole ($1\frac{1}{2}$ in. by 0.030 in.).....
46294	Supporting bracket for interlock.....
11096	Screw fastening No. 46294 to mechanism plate (14-24, $\frac{5}{8}$ in. r.h. blued).....
22780	Lock washer for No. 11096 ($\frac{17}{64}$ in. by $\frac{1}{2}$ in. by 0.060 in.).....
40135	CONTACT FINGER, complete, with contact tip.....
40136	Contact tip.....
30815	Screw fastening contact tip to finger (14-24, $\frac{5}{8}$ in. hex. h. slot. blued).....
22780	Lock washer for No. 30815 ($\frac{17}{64}$ in. by $\frac{1}{2}$ in. by 0.060 in.).....
40149	Pin for contact finger and contact lever ($\frac{7}{16}$ in. by $3\frac{1}{8}$ in. Tob. brz.).....
4030	Spring cotter for No. 40149 ($\frac{3}{32}$ in. by $\frac{5}{8}$ in.).....
111228	Flexible pigtail connector with terminals and support for contact finger and mechanism plate
13034	Screw fastening No. 111228 to finger (10-32, $\frac{3}{8}$ in. r.h. brass).....
40582	Lock washer for No. 13034 ($\frac{13}{64}$ in. by $\frac{13}{32}$ in. by 0.044 in.).....

TYPE DB-131, FORMS A AND B CONTACTORS

Cat. No.	Description
40153	Large pressure spring for contact finger.....
114059	Small pressure spring for contact finger.....
40155	Thimble for No. 40153, sherardized.....
23177	Fiber button for No. 40154.....
36908	Washer for No. 23177 ($\frac{1}{2}$ in. by 1 in. by 0.060 in.).....
40156	BLOWOUT COIL, complete, with terminal, contact base and contact tip.....
40136	Contact tip.....
46295	Bushing for terminal.....
30815	Screw fastening contact tip to base and clamping screw for terminal (14-24, $\frac{5}{8}$ in. [hex. h. slot. blued]).....



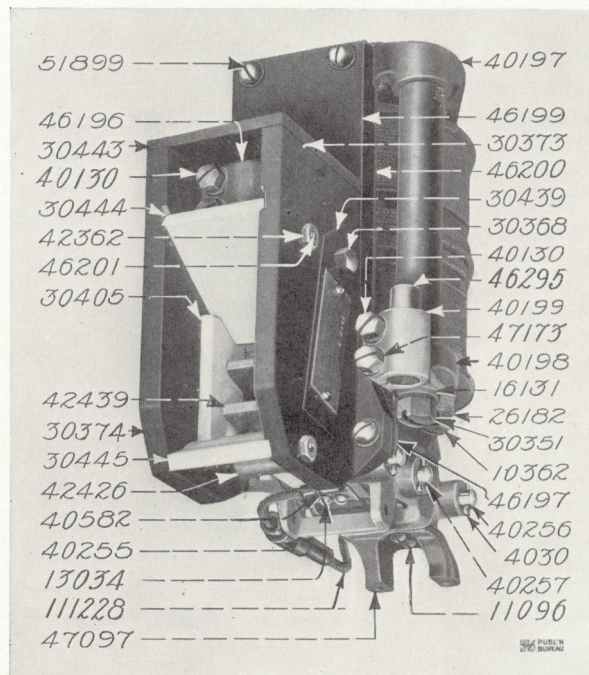
22780	Lock washer for No. 30815 ($\frac{1}{4}$ in. by $\frac{1}{2}$ in. by 0.060 in.).....
307	Long screw fastening No. 40156 to arc chute (14-24, 1 in. f.h.).....
1887	Short screw fastening No. 40156 to arc chute (14-24, $\frac{3}{4}$ in. f.h.).....
30367	POLE PIECE, two parts, with blowout coil core and cap screw.....
30368	Cap screw for No. 30367 ($\frac{5}{16}$ in.-18, $\frac{1}{2}$ in. hex. h.).....
30369	Fiber sleeve for blowout coil core.....
40157	Supporting bracket for arc chute for DB-131-A contactor only. For the DB-131-B contactor this bracket is replaced by the interlock casting.....
40158	Screw fastening No. 40157 to mechanism plate ($\frac{5}{16}$ in.-18, $\frac{7}{8}$ in. f.h.).....
40159	ARC CHUTE, complete, includes screws and washers for fastening in position.....
51899	Screw fastening chute to supporting bracket ($\frac{5}{16}$ in.-18, 1 in. r.h. blued).....
30371	Screw fastening chute to top plate ($\frac{5}{16}$ in.-18, $1\frac{1}{4}$ in. r.h. blued).....
47173	Lock washer for Nos. 51899, 30371 ($\frac{3}{4}$ in. by $\frac{5}{8}$ in. by 0.0625 in.).....
40160	Back plate.....
30373	Side plate (right-hand).....
30374	Side plate (left-hand).....

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TYPE DB-131, FORMS A AND B CONTACTORS

Cat. No.	Description
30402	Upper end plate.....
30403	Arcing plate, upper.....
30404	Arcing plate, lower.....
30405	Arcing plate, side.....
40169	Insulation for back plate.....
14192	Screw fastening No. 40169 to back plate and upper end plate to side plates (No. 8, 5/8 in. f.h.)
882	Screw fastening back plate to side plates (No. 8, 1 in. f.h.).....
40170	Stud for chute (10-32, 3 1/8 in. long).....
42362	Nut for No. 40170 (10-32, 3/32 in. thick, hex. brass sp'l).....
NOTE.—The following are top plates for other contactors of the DB-131 series, all parts of the contactors, except the top plates, being identical.	
30408	TOP PLATE, with pillars and magnet pole for DB-132 contactor.....
30409	Top plate, with pillars and magnet pole, for DB-133 contactor.....

TYPE DB-141, FORMS A AND B CONTACTORS



Following are the parts:

30426	OPERATING MAGNET SPOOL, complete, DB-141-A-6.....
30427	Operating magnet spool, complete, DB-141-A-7.....
34268	Operating magnet spool, complete, DB-141-A-8.....
40127	Operating magnet spool, complete, DB-141-A-9.....
40173	Operating magnet spool, complete, DB-141-A-10.....
40174	Operating magnet spool, complete, DB-141-A-11.....
40175	Operating magnet spool, complete, DB-141-A-12.....
40176	Operating magnet spool, complete, DB-141-A-13.....
40177	Operating magnet spool, complete, DB-141-A-14.....
40178	Operating magnet spool, complete, DB-141-A-15.....
40196	Operating magnet spool, complete, DB-141-A-16.....
47547	Operating magnet spool, complete, DB-141-A-18.....
47548	Operating magnet spool, complete, DB-141-A-19.....
22778	Copper terminal for magnet spool.....

TYPE DB-141, FORMS A AND B CONTACTORS

Cat. No.	Description
19682	Screw fastening terminal in position (14-24, $\frac{3}{8}$ in. r.h. blued).....
22780	Lock washer for No. 19682 ($\frac{17}{64}$ in. by $\frac{1}{2}$ in. by 0.060 in.).....
40197	TOP PLATE with pillars and magnet pole
40198	Mechanism plate.....
42537	Bushing for mechanism plate and plunger
40199	Terminal for mechanism plate.....
46295	Bushing for terminal ($\frac{9}{16}$ in. diam. with $\frac{1}{32}$ in. cable hole).....
40200	Bushing for terminal ($\frac{11}{16}$ in. diam. with $\frac{5}{8}$ in. cable hole).....
59419	Bushing for terminal ($\frac{11}{16}$ in. diam. with $\frac{1}{2}$ in. cable hole).....
40130	Clamping screw for terminal ($\frac{5}{16}$ in.-18, $\frac{5}{8}$ in. hex. h. slot. blued).....
47173	Lock washer for No. 40130 ($\frac{21}{64}$ in. by $\frac{5}{8}$ in. by 0.0625 in.).....
30351	Cap screw fastening No. 40198 to top plate and long screw fastening No. 40199 to mechanism plate ($\frac{1}{2}$ in.-13, $1\frac{1}{4}$ in. hex. h. slot.).....
10362	Short cap screw fastening No. 40199 to mechanism plate ($\frac{3}{8}$ in.-16, $\frac{7}{8}$ in. hex. h. slot.).....
16131	Lock washer for No. 30351.....
26182	Lock washer for No. 10362.....
40255	Contact lever.....
40256	Hinge pin for lever ($\frac{1}{16}$ in. by $3\frac{7}{8}$ in. Tob. bronze).....
4030	Spring cotter for No. 40256 ($\frac{3}{32}$ in. by $\frac{5}{8}$ in.).....
30354	Plunger for lever.....
40257	Pin for plunger and contact lever ($\frac{7}{16}$ in. by $3\frac{7}{8}$ in.).....
4030	Spring cotter for No. 40257 ($\frac{3}{32}$ in. by $\frac{5}{8}$ in.).....
47097	Supporting bracket for interlock.....
11096	Screw fastening No. 47097 to mechanism plate (14-24, $\frac{5}{8}$ in. r.h. blued).....
22780	Lock washer for No. 11096 ($\frac{17}{64}$ in. by $\frac{1}{2}$ in. by 0.060 in.).....
42426	CONTACT FINGER, complete, with contact tip.....
42439	Contact tip.....
30815	Screw fastening contact tip to finger (14-24, $\frac{5}{8}$ in. hex. h. slot. blued).....
22780	Lock washer for No. 30815 ($\frac{17}{64}$ in. by $\frac{1}{2}$ in. by 0.060 in.).....
40256	Pin for contact finger and contact lever ($\frac{1}{16}$ in. by $3\frac{7}{8}$ in. Tob. brz.).....
4030	Spring cotter for No. 40256 ($\frac{3}{32}$ in. by $\frac{5}{8}$ in.).....
111228	Flexible pigtail connector with terminals and support for contact finger and mechanism plate..
13034	Screw fastening No. 111228 to finger (10-32, $\frac{3}{8}$ in. r.h. brass).....
40582	Lock washer for No. 13034 ($\frac{13}{64}$ in. by $\frac{13}{32}$ in. by 0.044 in.).....
46193	Large pressure spring for contact finger.....
114059	Small pressure spring for contact finger.....
40155	Thimble for No. 46193, sherardized.....
23177	Fiber button for No. 46194.....
46195	Washer for No. 23177 ($\frac{17}{32}$ in. by 1 in. by 0.034 in.).....
46196	BLOWOUT COIL, complete, with terminal, contact base and contact tip.....
42439	Contact tip.....
30815	Screw fastening contact tip to base (14-24, $\frac{5}{8}$ in. hex. h. slot. blued).....
22780	Lock washer for No. 30815 ($\frac{17}{64}$ in. by $\frac{1}{2}$ in. by 0.060 in.).....
46295	Bushing for terminal ($\frac{9}{16}$ in. diam., with $\frac{1}{32}$ in. cable hole).....
40200	Bushing for terminal ($\frac{11}{16}$ in. diam. with $\frac{5}{8}$ in. cable hole).....
59419	Bushing for terminal ($\frac{11}{16}$ in. diam. with $\frac{1}{2}$ in. cable hole).....
40130	Clamping screw for terminal ($\frac{5}{16}$ in.-18, $\frac{5}{8}$ in. hex. h. slot. blued).....
47173	Lock washer for No. 40130 ($\frac{21}{64}$ in. by $\frac{5}{8}$ in. by 0.0625 in.).....
10298	Screw fastening No. 46196 to arc chute (14-24, $\frac{7}{8}$ in. f.h.).....
30439	POLE PIECE, two parts, with blowout coil core and cap screw.....
30368	Cap screw for No. 30439 ($\frac{5}{16}$ in.-18, $\frac{1}{2}$ in. hex. h.).....
30440	Fiber sleeve for blowout coil core.....
46197	Supporting bracket for arc chute for DB-141-A contactor only. For DB-141-B contactor, this bracket is replaced by the interlock casting.....
40158	Screw fastening No. 46197 to mechanism plate ($\frac{5}{16}$ in.-18, $\frac{7}{8}$ in. f.h.).....
46198	ARC CHUTE, complete, includes screws and washers for fastening in position.....

4970-26 *Parts of Contactors and Interlocks*

TYPE DB-141, FORMS A AND B CONTACTORS

Cat. No.	Description
51899	Screw fastening chute in position ($\frac{5}{16}$ in.-18, 1 in. r.h. blued).....
47173	Lock washer for No. 51899 ($\frac{3}{8}$ in. by $\frac{5}{8}$ in. by 0.0625 in.).....
46199	Back plate.....
30373	Side plate (right-hand).....
30374	Side plate (left-hand).....
30443	Upper end plate.....
30444	Arcing plate, upper.....
30445	Arcing plate, lower.....
30405	Arcing plate, side.....
46200	Insulation for back plate.....
14192	Screw fastening No. 46200 to back plate and upper end plate to side plates (No. 8, $\frac{5}{8}$ in. f.h.)
882	Screw fastening back plates to side plates (No. 8, 1 in. f.h.).....
46201	Stud for chute (10-32, $3\frac{5}{8}$ in. long).....
42362	Nut for stud (10-32, $\frac{9}{32}$ in. thick, hex. brass sp'l).....
NOTE.—The following are top plates for other contactors of the DB-141 series, all parts of the contactors, except the top plates, being identical.	
46202	TOP PLATE, with pillars and magnet pole for DB-142 contactor.....
46203	Top plate, with pillars and magnet pole for DB-143 contactor.....

TYPE DB-141, FORM C CONTACTOR

Following are the only parts of the DB-141-C contactor which differ from those of the DB-141-A:

46204	TOP PLATE with pillars and magnet pole.....
46205	Mechanism plate.....

TYPE DB-141, FORM D CONTACTOR

Following is the only part of the DB-141-D contactor which differs from those of the DB-141-A:

46206	Contact lever.....
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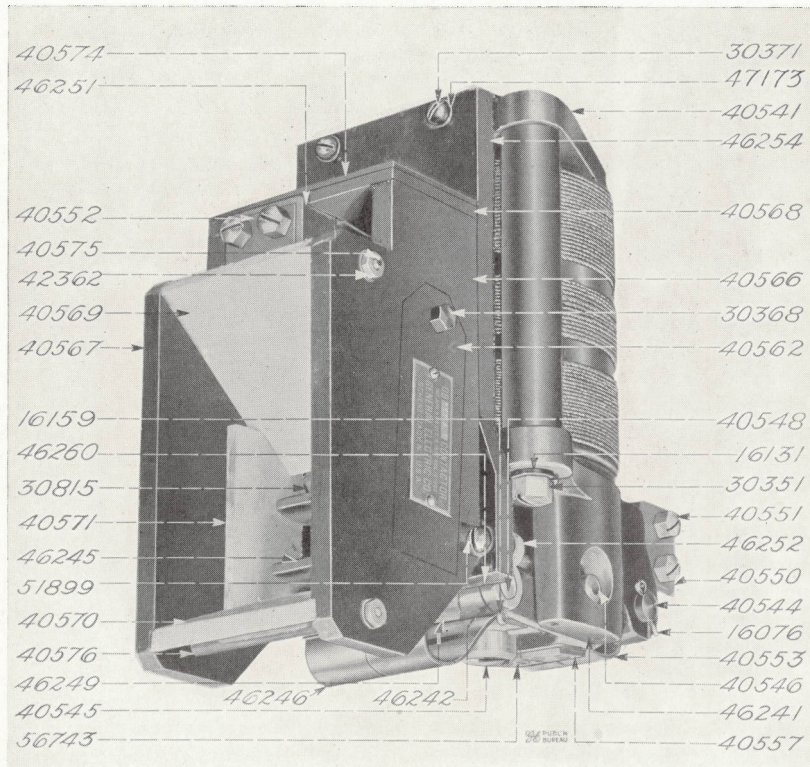
TYPE DB-151, FORM A CONTACTOR

Following are the parts:

40538	OPERATING MAGNET SPOOL, complete, DB-151-A-1.....
40539	Operating magnet spool, complete, DB-151-A-2.....
40540	Operating magnet spool, complete, DB-151-A-3.....
46227	Operating magnet spool, complete, DB-151-A-4.....
46228	Operating magnet spool, complete, DB-151-A-5.....
46229	Operating magnet spool, complete, DB-151-A-6.....
46230	Operating magnet spool, complete, DB-151-A-7.....
46235	Operating magnet spool, complete, DB-151-A-8.....
46236	Operating magnet spool, complete, DB-151-A-9.....
46237	Operating magnet spool, complete, DB-151-A-10.....
47545	Operating magnet spool, complete, DB-151-A-11.....
47546	Operating magnet spool, complete, DB-151-A-12.....
22778	Copper terminal for magnet spool.....
19682	Screw fastening terminal in position (14-24, $\frac{3}{8}$ in. r.h. blued).....
22780	Lock washer for No. 19682 ($\frac{1}{4}$ in. by $\frac{1}{2}$ in. by 0.060 in.).....
40541	TOP PLATE with pillars and magnet pole.....
46241	Mechanism plate.....
133696	Bushing for mechanism plate and plunger.....
30351	Cap screw fastening No. 46241 to top plate ($\frac{1}{2}$ in.-13, $1\frac{1}{4}$ in. hex. h. slot.).....
16131	Lock washer for No. 30351.....
46242	Contact lever.....
40544	Hinge pin for lever ($\frac{5}{8}$ in. by $4\frac{1}{16}$ in. Tob. brz.).....
16076	Spring cotter for No. 40544 ($\frac{1}{8}$ in. by 1 in.).....

TYPE DB-151, FORM A CONTACTOR
Description

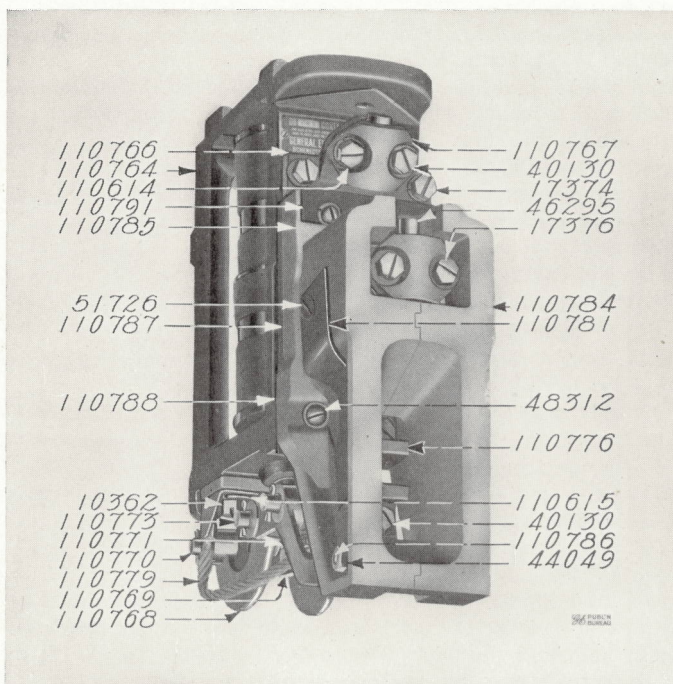
Cat. No.	Description
40545	Plunger for lever.....
14410	Set screw for plunger ($\frac{5}{16}$ in.-18, $\frac{5}{8}$ in. headless sp'l).....
40546	Pin for plunger and contact lever ($\frac{5}{8}$ in. by $5\frac{1}{2}$ in. Tob. brz. sp'l).....
32908	Locking screw for No. 40546 (8-32, 1 in. headless, sp'l).....
40549	Brass disk for plunger and magnet pole ($1\frac{3}{4}$ in. by 0.060 in.).....
40550	Terminal for mechanism plate.....



40551	Clamping screw for No. 40550 ($\frac{3}{8}$ in.-16, $\frac{3}{4}$ in. hex. h. slot. cap screw).....
40552	Lock washer plate for No. 40551.....
40553	Laminated shunt, with guards, for contact lever and mechanism plate.....
56743	Screw fastening No. 40553 to contact lever (14-24, $\frac{1}{2}$ in. f.h.).....
10298	Screw fastening Nos. 40550, 40553 to mechanism plate (14-24, $\frac{7}{8}$ in. f.h.).....
40557	Washer plate for No. 56743.....
46243	CONTACT FINGER, complete, with contact tip (right-hand).....
46244	Contact finger, complete, with contact tip (left-hand).....
46245	Contact tip.....
30815	Cap screw fastening contact tip to finger (14-24, $\frac{5}{8}$ in. hex. h. slot. blued).....
22780	Lock washer for No. 30815 ($\frac{17}{64}$ in. by $\frac{1}{2}$ in. by 0.060 in.).....
40548	Pin for contact fingers and contact lever ($\frac{5}{8}$ in. by $4\frac{1}{16}$ in.).....
16159	Spring cotter for No. 40548 ($\frac{1}{8}$ in. by $1\frac{1}{4}$ in.).....
46246	Laminated shunt with guards, for contact finger and contact lever.....
56743	Screw fastening No. 46246 in position (14-24, $\frac{1}{2}$ in. f.h.).....
46249	Washer plate for No. 56743.....
40555	Pressure spring for contact finger.....
46250	Fiber button for spring.....

TYPE DB-160, FORMS A AND D CONTACTORS

Cat. No.	Description
110768	* Operating lever.....
110769	Hinge bracket for operating lever.....
10362	Cap screw fastening hinge bracket to magnet frame ($\frac{3}{8}$ in.-16, $\frac{7}{8}$ in. hex. h. slot.).....
110615	Positive lock washer for No. 10362 ($\frac{11}{32}$ in. by $\frac{23}{32}$ in. by 0.125 in.).....
110770	Hinge pin for operating lever and bracket ($\frac{7}{16}$ in. by $3\frac{3}{8}$ in. Tob. bronze).....
110771	Plunger for operating lever.....



110772	Disk for plunger and magnet pole.....
110773	Pin for plunger and operating lever ($\frac{7}{16}$ in. by $3\frac{3}{8}$ in. zinc plated).....
110774	Spring cotter for Nos. 110770, 110773 ($\frac{3}{32}$ in. by $\frac{5}{8}$ in. sherardized).....
110775	* Contact lever.....
110776	Contact tip.....
40130	Cap screw fastening contact tip to contact lever ($\frac{5}{16}$ in.-18, $\frac{5}{8}$ in. hex. h. slot. blued).....
110614	Positive lock washer for No. 40130 ($\frac{11}{32}$ in. by $\frac{23}{32}$ in. by $\frac{3}{32}$ in. thick).....
110773	Pin for contact and operating levers ($\frac{7}{16}$ in. by $3\frac{3}{8}$ in. zinc plated).....
110774	Spring cotter for No. 110773 ($\frac{3}{32}$ in. by $\frac{5}{8}$ in. sherardized).....
110777	Pressure spring for contact lever.....
110778	Fiber button for spring.....
110779	Flexible pigtail connector with terminals, for contact lever and magnet frame.....
17375	Cap screw fastening No. 110779 to contact lever ($\frac{5}{16}$ in.-18, $\frac{3}{8}$ in. hex. h. slot, sherardized).....
110614	Positive lock washer for No. 17375 ($\frac{11}{32}$ in. by $\frac{23}{32}$ in. by $\frac{3}{32}$ in. thick).....
48135	Washer for No. 17375 ($\frac{23}{32}$ in. by $\frac{5}{8}$ in. by 0.060 in. brass).....
110780	BLOWOUT COIL, complete, with terminal, contact base and contact tip.....
110776	Contact tip.....
40130	Cap screw fastening contact tip to base ($\frac{5}{16}$ in.-18, $\frac{5}{8}$ in. hex. h. slot. blued).....
110614	Positive lock washer for No. 40130 ($\frac{11}{32}$ in. by $\frac{23}{32}$ in. by $\frac{3}{32}$ in. thick).....
110767	Clamp for terminal.....
46295	Bushing for terminal.....

* Must be ordered together for Form A contactors, whereupon the contactor becomes Form D.

4970-28 *Parts of Contactors and Interlocks*

TYPE DB-151, FORM A CONTACTOR

Cat. No.	Description
46251	BLOWOUT COIL, complete, with terminal, contact base and contact tip.....
46245	Contact tip.....
30815	Cap screw fastening contact tip to base (14-24, $\frac{5}{8}$ in. hex. h. slot. blued).....
22780	Lock washer for No. 30815 ($\frac{17}{64}$ in. by $\frac{1}{2}$ in. by 0.060 in.).....
40551	Clamping screw for blowout coil terminal ($\frac{3}{8}$ in.-16, $\frac{3}{4}$ in. hex. h. slot. cap screw).....
40552	Lock washer plate for No. 40551.....
307	Long screw fastening No. 46251 to arc chute (14-24, 1 in. f.h.).....
56743	Short screw fastening No. 46251 to arc chute (14-24, $\frac{1}{2}$ in. f.h.).....
40562	POLE PIECE, two parts, with blowout coil core and cap screw.....
30368	Cap screw for No. 40562 ($\frac{5}{8}$ in.-18, $\frac{1}{2}$ in. hex. h.).....
40563	Fiber sleeve for blowout coil core.....
46252	Supporting bracket for arc chute.....
10576	Screw fastening No. 46252 to mechanism plate ($\frac{5}{16}$ in.-18, 1 in. f.h.).....
46253	ARC CHUTE, complete, includes screws and washers for fastening in position.....
51899	Screw fastening chute to supporting bracket ($\frac{5}{16}$ in.-18, 1 in. r.h. blued).....
30371	Screw fastening chute to top plate ($\frac{1}{8}$ in.-18, $1\frac{1}{4}$ in. r.h. blued).....
47173	Lock washer for Nos. 51899, 30371 ($\frac{21}{64}$ in. by $\frac{5}{8}$ in. by 0.0625 in.).....
46254	Back plate.....
40566	Side plate (right-hand).....
40567	Side plate (left-hand).....
40568	Upper end plate.....
40569	Arcing plate, upper.....
40570	Arcing plate, lower.....
40571	Arcing plate, side.....
46260	Insulation for back plate.....
40574	Insulation for upper end plate.....
882	Screw fastening back plate to side plate (No. 8, 1 in. f.h.).....
1013	Screw fastening insulation and upper end plate to side plates (No. 8, $\frac{3}{4}$ in. f.h.).....
40575	Stud for chute (10-32, $5\frac{3}{8}$ in. long).....
40576	Fiber sleeve for stud.....
42362	Nut for stud (10-32, $\frac{3}{32}$ in. thick, hex. brass, sp'l).....

TYPE DB-151, FORM C CONTACTOR

Following is the only part of the DB-151-C contactor which differs from those of the DB-151-A:

46261	BLOWOUT COIL, complete, with terminal, contact base and contact tip.....
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TYPE DB-160, FORMS A AND D CONTACTORS

Following are the parts:

110759	OPERATING MAGNET SPOOL, complete, DB-160-D-1.....
110760	Operating magnet spool, complete, DB-160-D-2.....
110761	Operating magnet spool, complete, DB-160-D-3.....
110762	Operating magnet spool, complete, DB-160-D-4.....
110763	Operating magnet spool, complete, DB-160-D-5.....
22778	Copper terminal for magnet spool.....
19682	Screw fastening terminal in position (14-24, $\frac{3}{8}$ in. r.h. blued).....
22780	Lock washer for No. 19682 ($\frac{17}{64}$ in. by $\frac{1}{2}$ in. by 0.060 in.).....
110764	MAGNET FRAME with bushing for plunger.....
110765	Magnet pole.....
110766	Terminal, complete, for frame.....
110767	Clamp for terminal.....
46295	Bushing for terminal.....
40130	Clamping screw for terminal ($\frac{5}{16}$ in.-18, $\frac{5}{8}$ in. hex. h. slot. blued cap screw).....
110614	Positive lock washer for No. 40130 ($\frac{1}{2}$ in. by $\frac{23}{32}$ in. by $\frac{3}{32}$ in. thick).....
17374	Cap screw fastening No. 110766 to magnet frame ($\frac{1}{8}$ in.-18, $\frac{7}{8}$ in. hex. h. slot. blued).....
110614	Positive lock washer for No. 17374 ($\frac{1}{2}$ in. by $\frac{23}{32}$ in. by $\frac{3}{32}$ in. thick).....

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TYPE DB-160, FORMS A AND D CONTACTORS

Cat. No.	Description
17376	Clamping screw for terminal ($\frac{5}{16}$ in.-18, $\frac{3}{4}$ in. hex. h. slot. sherardized cap screw).....
110614	Positive lock washer for No. 17376 ($\frac{13}{16}$ in. by $\frac{3}{32}$ in. by $\frac{3}{32}$ in. thick).....
40158	Screw fastening No. 110780 in position ($\frac{5}{16}$ in.-18, $\frac{7}{8}$ in. f.h.).....
110781	POLE PIECE, two parts, with blowout coil core and screw.....
51726	Screw for No. 110781 ($\frac{5}{16}$ in.-18, $\frac{5}{8}$ in. f.h.).....
110782	Fiber sleeve for blowout coil core.....
110783	ARC CHUTE, two parts, complete, with stud.....
110784	Arc chute side (right-hand).....
110785	Arc chute side (left-hand).....
110786	Stud for chute (14-24, $2\frac{13}{16}$ in. long, brass).....
44049	Nut for stud (14-24, $\frac{3}{16}$ in. thick, $\frac{1}{2}$ in. across flats, hex. cham. one side blued).....
110624	Positive lock washer for No. 44049 ($\frac{9}{32}$ in. by $\frac{9}{16}$ in. by $\frac{5}{64}$ in. thick).....
110787	Back plate for arc chute.....
110788	Insulation plate between back plate and magnet frame.....
48312	Screw fastening arc chute and back plate to magnet frame (14-24, $1\frac{3}{4}$ in. r.h. blued).....
110624	Positive lock washer for No. 48312 ($\frac{9}{32}$ in. by $\frac{9}{16}$ in. by $\frac{5}{64}$ in. thick).....
110789	Washer for No. 48312 ($\frac{13}{16}$ in. by $\frac{1}{2}$ in. by 0.014 in.).....
110790	Fiber sleeve for No. 48312.....
110791	Washer plate for No. 48312.....

TYPE DB-160, FORM C CONTACTOR

Following are the parts of the Type DB-160, Form C contactor, which differ from those of the Type DB-160, Form D:

110802	MAGNET FRAME with bushing for plunger.....
110795	Operating lever.....
110803	Hinge bracket for operating lever.....
110800	POLE PIECE, two parts, galvanized, with blowout coil core and screw.....
17380	Screw for No. 110800 ($\frac{5}{16}$ in.-18, $\frac{5}{8}$ in. f.h. zinc plated).....
110801	ARC CHUTE, two parts, complete, with stud.....
17381	Stud for chute (14-24, $3\frac{15}{16}$ in. long, brass).....
17382	Large nut for stud (14-24, $\frac{1}{2}$ in. thick, $\frac{1}{2}$ in. across flats, hex. brass sp'l).....
22213	Small nut for stud (14-24, $\frac{1}{8}$ in. thick, $\frac{1}{2}$ in. across flats hex. flat brass).....
22245	Screw fastening arc chute and back plate to magnet frame (14-24, $1\frac{3}{4}$ in. r.h. brass).....

PARTS OF TYPE DB-160, FORM F CONTACTOR

Following are the parts of the Type DB-160, Form F contactor, which differ from those of the Type DB-160, Form A:

133578	POLE PIECE, two parts, with blow-out coil core and screw.....
133579	Fiber sleeve for blow-out coil core.....

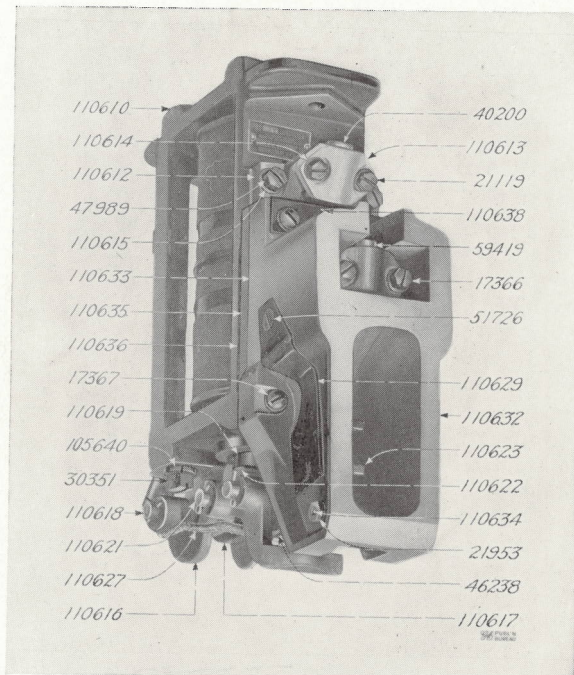
TYPE DB-166, FORM A CONTACTOR

Following are the parts:

110605	OPERATING MAGNET SPOOL, complete, DB-166-A-1.....
110606	Operating magnet spool, complete, DB-166-A-2.....
110607	Operating magnet spool, complete, DB-166-A-3.....
110608	Operating magnet spool, complete, DB-166-A-4.....
110609	Operating magnet spool, complete, DB-166-A-5.....
22778	Copper terminal for magnet spool.....
19682	Screw fastening terminal in position (14-24, $\frac{3}{8}$ in. r.h. blued).....
22780	Lock washer for No. 19682 ($\frac{17}{16}$ in. by $\frac{1}{2}$ in. by 0.060 in.).....
110610	MAGNET FRAME with bushing for plunger.....
110611	Magnet pole.....
110612	Terminal, complete, for frame.....
110613	Clamp for terminal.....
40200	Bushing for terminal.....
21119	Clamping screw for terminal ($\frac{5}{16}$ in.-18, $\frac{3}{4}$ in. hex. h. slot. blued cap screw).....
110614	Positive lock washer for No. 21119 ($\frac{13}{16}$ in. by $\frac{3}{32}$ in. by $\frac{3}{32}$ in. thick).....
47989	Cap screw fastening No. 110612 to magnet frame ($\frac{3}{8}$ in.-16, $1\frac{1}{4}$ in. hex. h. slot. blued).....

TYPE DB-166, FORM A CONTACTOR

Cat. No.	Description
110615	Positive lock washer for No. 47989 ($\frac{13}{32}$ in. by $\frac{3}{32}$ in. by 0.125 in.).....
110616	Operating lever.....
110617	Hinge bracket for operating lever.....
30351	Cap screw fastening hinge bracket to magnet frame ($\frac{1}{2}$ in.-13, $1\frac{1}{4}$ in. hex. h. slot.).....
105640	Positive lock washer for No. 30351 ($\frac{13}{32}$ in. by $1\frac{1}{32}$ in. by 0.125 in.).....
110618	Hinge pin for operating lever and bracket ($\frac{1}{2}$ in. by $3\frac{1}{16}$ in. Tob. bronze).....
110619	Plunger for operating lever.....
110620	Brass disk for plunger and magnet pole.....
110621	Pin for plunger and operating lever ($\frac{1}{2}$ in. by $3\frac{1}{16}$ in.).....



16118	Spring cotter for Nos. 110618, 110621 ($\frac{1}{8}$ in. by $\frac{3}{4}$ in.).....
110622	Contact lever.....
110623	Contact tip.....
30815	Cap screw fastening contact tip to contact lever (14-24, $\frac{5}{8}$ in. hex. h. slot. blued).....
110624	Positive lock washer for No. 30815 ($\frac{9}{32}$ in. by $\frac{9}{16}$ in. by $\frac{5}{64}$ in. thick).....
110621	Pin for contact and operating lever ($\frac{1}{2}$ in. by $3\frac{1}{16}$ in.).....
16118	Spring cotter for No. 110621 ($\frac{1}{8}$ in. by $\frac{3}{4}$ in.).....
110625	Pressure spring for contact lever.....
110626	Fiber button for spring.....
110627	Flexible pigtail connector with terminals for contact lever and magnet frame.....
46238	Cap screw fastening No. 110627 to contact lever (14-24, $\frac{1}{2}$ in. hex. h. slot. blued).....
110624	Positive lock washer for No. 46238 ($\frac{9}{32}$ in. by $\frac{9}{16}$ in. by $\frac{5}{64}$ in. thick).....
110628	BLOWOUT COIL, complete, with terminal, contact base and contact tip.....
110623	Contact tip.....
30815	Cap screw fastening contact tip to base (14-24, $\frac{5}{8}$ in. hex. h. slot. blued).....
110624	Positive lock washer for No. 30815 ($\frac{9}{32}$ in. by $\frac{9}{16}$ in. by $\frac{5}{64}$ in. thick).....
110613	Clamp for terminal.....
59419	Bushing for terminal.....
17366	Clamping screw for terminal ($\frac{5}{16}$ in.-18, $\frac{7}{8}$ in. hex. h. slot. sherardized cap screw).....
110614	Positive lock washer for No. 17366 ($\frac{11}{32}$ in. by $\frac{23}{32}$ in. by $\frac{3}{32}$ in. thick).....

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TYPE DB-166, FORM A CONTACTOR

Cat. No.	Description
10576	Screw fastening No. 110628 in position ($\frac{5}{16}$ in.-18, 1 in. f.h.).....
110629	POLE PIECE, two parts, with blowout coil core and screw.....
51726	Screw for No. 110629 ($\frac{5}{16}$ in.-18, $\frac{5}{8}$ in. f.h.).....
110630	Fiber sleeve for blowout coil core.....
110631	ARC CHUTE, two parts, complete, with stud.....
110632	Arc chute side, right-hand.....
110633	Arc chute side, left-hand.....
110634	Stud for chute (14-24, 3 in. long, brass).....
21953	Nut for stud (14-24, $\frac{3}{8}$ in. thick, $\frac{1}{2}$ in. across flats, hex. brass cham. both sides).....
110624	Positive lock washer for No. 21953 ($\frac{3}{32}$ in. by $\frac{9}{16}$ in. by $\frac{5}{16}$ in. thick).....
110635	Back plate for arc chute.....
110636	Insulation plate between back plate and magnet frame.....
17367	Screw fastening arc chute and back plate to magnet frame ($\frac{5}{16}$ in.-18, 2 in. r.h.).....
110614	Positive lock washer for No. 17367 ($\frac{11}{32}$ in. by $\frac{23}{32}$ in. by $\frac{3}{32}$ in. thick).....
24262	Washer for No. 17367 ($\frac{21}{64}$ in. by $\frac{5}{8}$ in. by 0.0625 in.).....
110637	Fiber sleeve for No. 17367.....
110638	Washer plate for No. 17367.....

TYPE DB-166, FORM B CONTACTOR

Following are the parts of the Type DB-166, Form B contactor which differ from those of the Type DB-166, Form A:

110639	Magnet frame with bushing for plunger.....
110640	Hinge bracket for operating lever.....
110641	BLOWOUT COIL, complete, with terminal, contact base and contact tip.....
17368	Clamping screw for terminal ($\frac{3}{8}$ in.-16, $\frac{3}{4}$ in. hex. h. slot. sherardized cap screw).....
40552	Lock washer plate for No. 17368.....
110643	ARC CHUTE, two parts, complete, with stud.....
110644	Arc chute side (right-hand).....
110645	Arc chute side (left-hand).....

TYPE DB-166, FORM C CONTACTOR

Following are the parts of the Type DB-166, Form C contactor which differ from those of the Type DB-166, Form A:

110646	Operating lever.....
110647	Hinge bracket for operating lever.....

TYPE DB-166, FORM D CONTACTOR

Following are the parts of the Type DB-166, Form D contactor which differ from those of the Type DB-166, Form A:

110639	Magnet frame with bushing for plunger.....
110646	Operating lever.....
110647	Hinge bracket for operating lever.....
110641	BLOWOUT COIL, complete, with terminal, contact base and contact tip.....
17368	Clamping screw for terminal ($\frac{3}{8}$ in.-16, $\frac{3}{8}$ in. hex. h. slot. sherardized cap screw).....
40552	Lock washer plate for No. 17368.....
110643	ARC CHUTE, two parts, complete, with stud.....
110644	Arc chute side (right-hand).....
110645	Arc chute side (left-hand).....

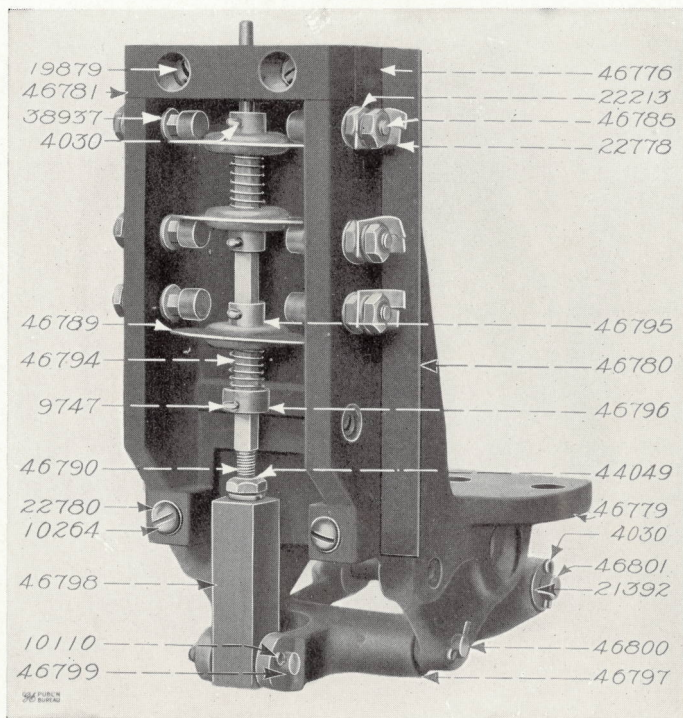
TYPE DI-15, FORMS A4, A5, A7 AND B12 INTERLOCKS FOR USE WITH TYPE DB-15, FORMS E AND F CONTACTORS

Following are the parts:

46776	INTERLOCK FRAME, for Form A4 interlock.....
46777	Interlock frame, for Forms A5 and B12 interlocks.....
46778	Interlock frame, for Form A7 interlock.....
46779	Supporting bracket for interlock.....
46780	Insulation between interlock frame and supporting bracket.....
46781	Bearing block for shaft.....
19879	Screw fastening bearing block and long screw fastening interlock frame and insulation to supporting bracket (14-24, $1\frac{1}{8}$ in. r.h. blued).....

TYPE DI-15 INTERLOCKS

Cat. No.	Description
10264	Short screw fastening interlock frame and insulation to supporting bracket (14-24, 1 in. r.h. blued).....
22780	Lock washer for Nos. 10264, 19879 ($\frac{17}{64}$ in. by $\frac{1}{2}$ in. by 0.060 in.).....
46782	BLOWOUT COIL, complete, for Form B12 interlock
22778	Copper terminal for blowout coil.....
19682	Screw fastening terminal in position (14-24, $\frac{3}{8}$ in. r.h. blued).....
22780	Lock washer for No. 19682 ($\frac{17}{64}$ in. by $\frac{1}{2}$ in. by 0.060 in.).....



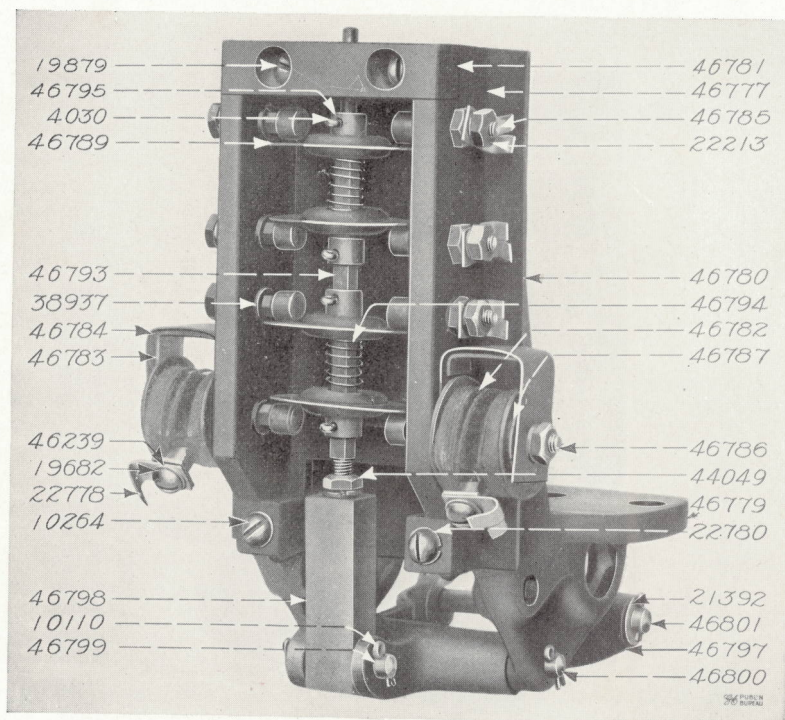
NOTE.—The above illustration of the Type DI-15, Form A4 interlock is representative of Forms A5 and A7, the difference being in the number and position of the contact disks.

46783	Pole piece for blowout coil.....
46784	Insulation for pole piece.....
46785	Contact stud for Forms A4, A5 and A7 and short stud for Form B12 interlocks.....
46786	Long contact stud for Form B12 interlock
38937	Washer for No. 46785 and small washer for No. 46786 ($\frac{17}{64}$ in. by $\frac{1}{2}$ in. by 0.060 in.).....
46787	Large washer for No. 46786 ($\frac{17}{64}$ in. by $\frac{3}{4}$ in. by 0.060 in.).....
22213	Nut for Nos. 46785, 46786 (14-24, hex. brass).....
22780	Lock washer for nut ($\frac{17}{64}$ in. by $\frac{1}{2}$ in. by 0.060 in.).....
22778	Copper terminal for contact stud.....
46789	Contact disk.....
46790	Rod for contact disks, for Form A4 interlock
46791	Rod for contact disks, for Form A5 interlock
46792	Rod for contact disks, for Form A7 interlock
46793	Rod for contact disks, for Form B12 interlock
46794	Pressure spring for contact disks.....

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TYPE DI-15 INTERLOCKS

Cat. No.	Description
46795	Brass collar for rod for Forms A5 and B12 and small collar for Forms A4 and A7 interlocks ..
46796	Large brass collar for Forms A4 and A7 interlocks
4030	Spring cotter for No. 46795 ($\frac{3}{32}$ in. by $\frac{5}{8}$ in.)
9747	Spring cotter for No. 46796 ($\frac{3}{32}$ in. by 1 in.)
44049	Adjusting nut for rod (14-24, hex. blued, cham., one side)
22780	Lock washer for No. 44049 ($\frac{17}{64}$ in. by $\frac{1}{2}$ in. by 0.060 in.)
46797	Operating lever
46798	Insulating connector for operating lever and rod



TYPE DI-15, FORM B12 INTERLOCK

46799	Pin for Nos. 46797, 46798 ($\frac{5}{16}$ in. by $1\frac{9}{16}$ in.)
46800	Pin for operating lever and supporting bracket ($\frac{5}{16}$ in. by $4\frac{1}{16}$ in.)
46801	Pin for operating lever and contactor contact finger and lever ($\frac{3}{8}$ in. by 4 in.)
10110	Spring cotter for Nos. 46799, 46800 ($\frac{5}{16}$ in. by $\frac{1}{2}$ in.)
4030	Spring cotter for No. 46801 ($\frac{3}{32}$ in. by $\frac{5}{8}$ in.)
21392	Washer for No. 46801 ($\frac{13}{32}$ in. by $\frac{3}{4}$ in. by 0.060 in.)

TYPE DI-51, FORMS A1, A2 AND A3 INTERLOCKS FOR USE WITH TYPE DB-51, FORMS A, B AND C AND TYPE DB-151, FORMS A AND C CONTACTORS

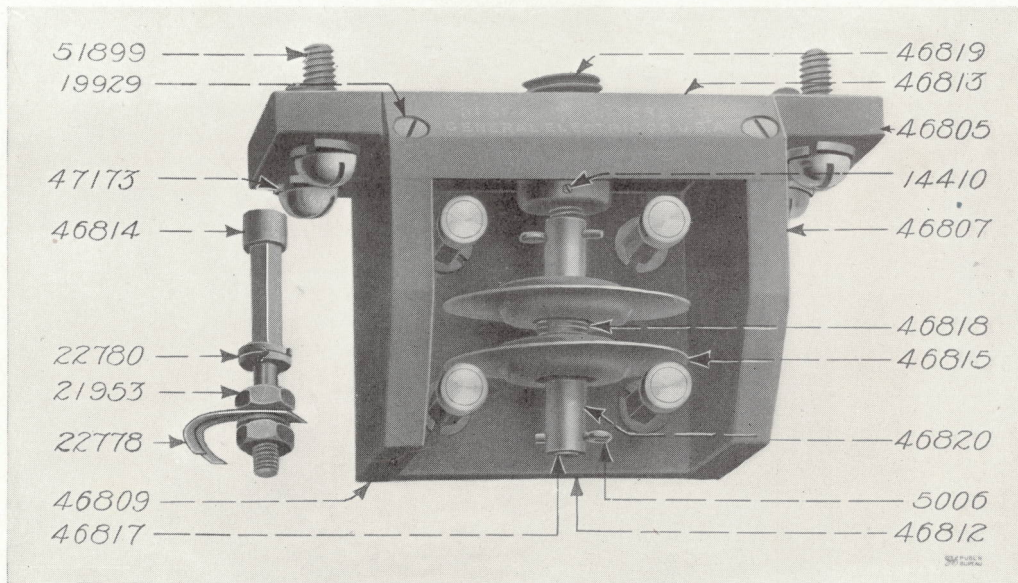
NOTE.—The accompanying illustration of the Type DI-51, Form A3 interlock is representative of Forms A1 and A2, the difference being in the number and position of the contact disks.

Following are the parts:

46802	INTERLOCK BOX, complete, for Form A1 interlock
46803	Interlock box, complete, for Form A2 interlock
46804	Interlock box, complete, for Form A3 interlock
46805	Top plate
46806	Side plate (right-hand) for Nos. 46802, 46803
46807	Side plate (right-hand) for No. 46804

TYPE DI-51 INTERLOCKS

Cat. No.	Description
46808	Side plate (left-hand) for Nos. 46802, 46803.
46809	Side plate (left-hand) for No. 46804.
46810	Back plate for No. 46802
46811	Back plate for No. 46803
46812	Back plate for No. 46804
46813	Front plate
19929	Screw fastening plates together (No. 8, $\frac{7}{8}$ in. f.h.)
51899	Screw fastening interlock box in position ($\frac{5}{16}$ in.-18, 1 in. r.h. blued)
47173	Lock washer for No. 51899 ($\frac{3}{4}$ in. by $\frac{5}{8}$ in. by 0.0625 in.)



46814	CONTACT STUD
21953	Nut for No. 46814 (14-24, hex. brass, cham., both sides)
22780	Lock washer for No. 21953 ($\frac{3}{4}$ in. by $\frac{1}{2}$ in. by 0.060 in.)
22778	Copper terminal for contact stud
46815	Contact disk
46816	Rod for contact disk, for Forms A1 and A2 interlocks
46817	Rod for contact disks, for Form A3 interlock
46818	Pressure spring for contact disk
46819	Insulating connector for rod and contactor plunger
14410	Set screw for No. 46819 ($\frac{5}{16}$ in.-18, $\frac{5}{8}$ in. headless sp'l)
46820	Brass sleeve for rod
5006	Spring cotter for No. 46820 ($\frac{3}{32}$ in. by $\frac{1}{2}$ in.)
46821	Brass collar for rod for Forms A1 and A2 interlocks
9747	Spring cotter for No. 46821 ($\frac{3}{32}$ in. by 1 in.)

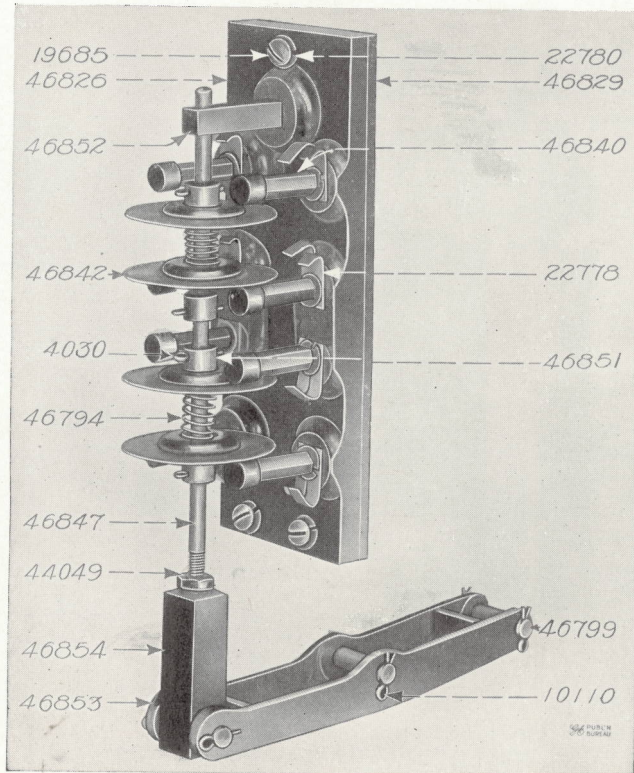
TYPE DI-61, FORMS A1, A2, A3, A4, A5, B5 AND B6 INTERLOCKS FOR USE WITH TYPE DB-61, FORM B CONTACTOR

NOTE.—The accompanying illustrations of the Type DI-61, Forms A5 and B6 interlocks are representative of Forms A1, A2, A3, A4 and B5, the difference being in the number and position of the contact disks.

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TYPE DI-61 INTERLOCKS

Cat. No.	Description
	<i>Following are the parts:</i>
46822	INTERLOCK BASE for Form A1 interlock
46823	Interlock base for Form A2 interlock
46824	Interlock base for Form A3 interlock
46825	Interlock base for Form A4 interlock
46826	Interlock base for Form A5 interlock
46827	Interlock base for Form B5 interlock
46828	Interlock base for Form B6 interlock
46829	Insulation for base

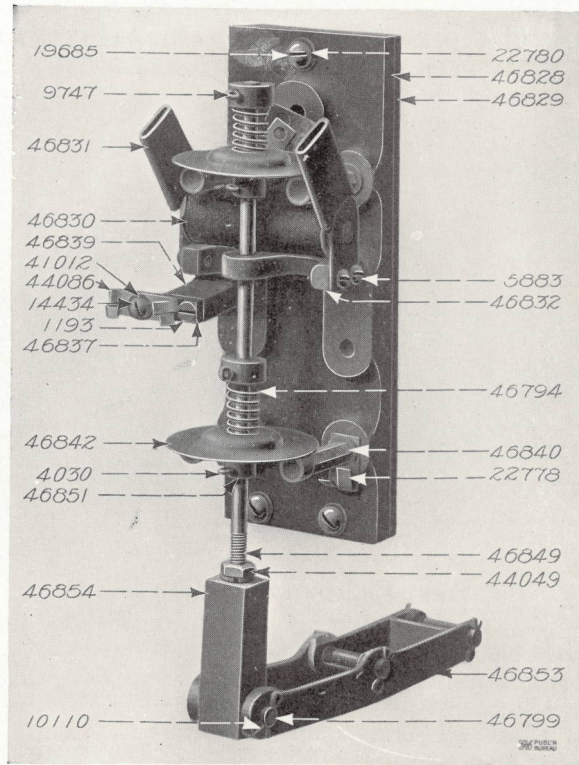


TYPE DI-61, FORM A5 INTERLOCK

19685	Screw fastening interlock base and insulation in position (14-24, 7/8 in. r.h. blued).....
22780	Lock washer for No. 19685 (17/4 in. by 1/2 in. by 0.060 in.).....
46830	BLOWOUT COIL, complete, for Forms B5 and B6 interlocks
46831	Insulation for blowout coil pole piece.....
46832	Support for blowout coil
46833	Spacing block for No. 46832 for Form B6 interlock
5883	Screw fastening blowout coil pole piece to support (8-32, 5/16 in. r.h. blued).....
46834	Screw fastening No. 46832 to interlock base, for Form B5 interlock (14-24, 5/8 in. r.h.)
10298	Screw fastening Nos. 46832, 46833 to interlock base, for Form B6 interlock (14-24, 7/8 in. f.h.)
46835	Dowel pin for No. 46832, for Form B5 interlock (0.136 in. by 1/2 in.)
46836	Dowel pin for No. 46832, for Form B6 interlock (0.136 in. by 13/16 in.)
46837	Terminal base for Forms B5 and B6 interlocks.....
44086	Copper terminal for No. 46837.....
14434	Screw fastening terminal in position (8-32, 3/8 in. r.h. blued).....

TYPE DI-61 INTERLOCKS

Cat. No.	Description
41012	Lock washer for No. 14434 ($\frac{3}{16}$ in. by $\frac{3}{8}$ in. by 0.044 in.).....
46838	Supporting block for No. 46837 for Form B5 interlock
46839	Supporting block for No. 46837 for Form B6 interlock
24131	Screw fastening Nos. 46838, 46839 to blowout coil support (8-32, $\frac{7}{8}$ in. f.h.).....
1193	Screw fastening No. 46837 to supporting block (8-32, $\frac{1}{2}$ in. f.h.).....
46840	Contact stud.....



TYPE DI-61, FORM B6 INTERLOCK

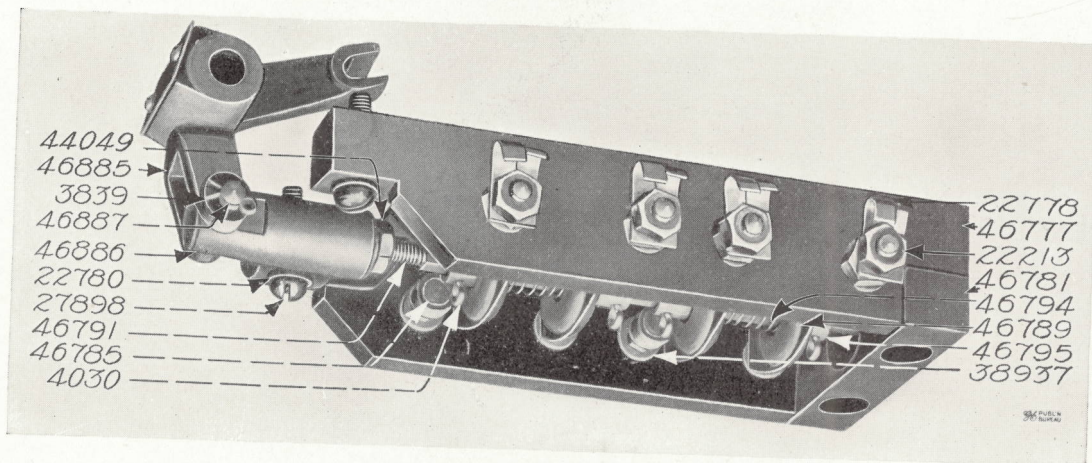
44049	Nut for No. 46840 (14-24, hex. blued, cham. one side),.....
22780	Lock washer for No. 44049 ($\frac{17}{64}$ in. by $\frac{1}{2}$ in. by 0.060 in.).....
22778	Copper terminal for No. 46840.....
46842	Contact disk.....
46843	Rod for contact disk for Form A1 interlock
46844	Rod for contact disk for Form A2 interlock
46845	Rod for contact disks for Form A3 interlock.....
46846	Rod for contact disks for Form A4 interlock.....
46847	Rod for contact disks for Form A5 interlock.....
46848	Rod for contact disks for Form B5 interlock.....
46849	Rod for contact disks for Form B6 interlock.....
46794	Pressure spring for contact disk
46850	Large collar for rod for Forms A1, A2, A4 and B6 interlocks.....
46851	Collar for rod for Forms A3, A5, B5 and small collar for Forms A1, A2, A4 and B6 interlocks
9747	Spring cotter for No. 46850 ($\frac{3}{8}$ in. by 1 in.).....
4030	Spring cotter for No. 46851 ($\frac{3}{8}$ in. by $\frac{5}{8}$ in.).....
46852	Bearing stud for rod for Forms A1, A2, A3, A4 and A5 interlocks.....

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TYPE DI-61 INTERLOCKS

Cat. No.	Description
44049	Nut for No. 46852 and adjusting nut for rod (14-24, hex. blued, cham., one side).....
22780	Lock washer for No. 44049 ($\frac{13}{16}$ in. by $\frac{1}{2}$ in. by 0.060 in.).....
46853	Operating lever.....
46854	Insulating connector for operating lever and rod.....
46799	Pin for Nos. 46853, 46854, hinge pin for operating lever and pin for operating lever and contactor contact lever ($\frac{5}{16}$ in. by $1\frac{9}{16}$ in.).....
10110	Spring cotter for No. 46799 ($\frac{5}{16}$ in. by $\frac{1}{2}$ in.).....

TYPE DI-61, FORMS C1, C2, C3, C4, C5, C7, C8, C9 AND D5 INTERLOCKS FOR USE WITH TYPE DB-61, FORM D CONTACTOR



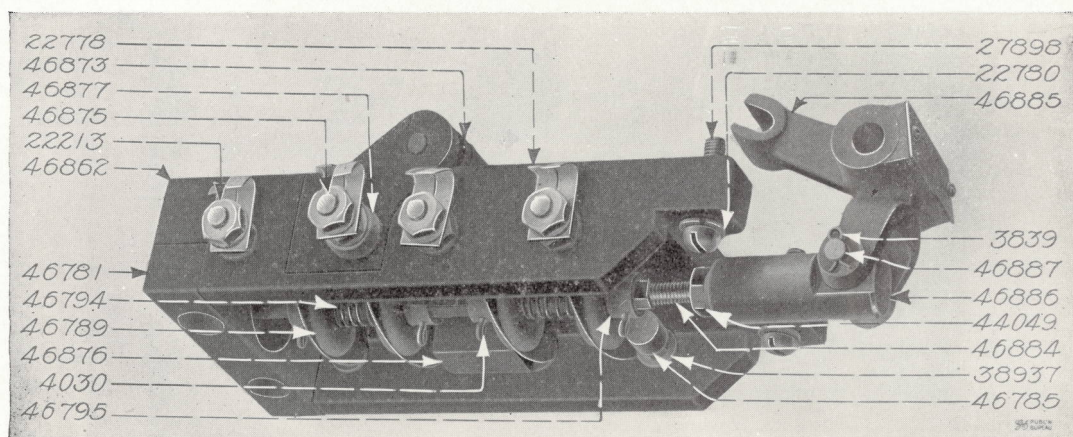
TYPE DI-61, FORM C5 INTERLOCK

NOTE.—The above illustration of the Type DI-61, Form C5 interlock is representative of Forms C1, C2, C3, C4, C7, C8 and C9, the difference being in the number and position of the contact disks.

46855	INTERLOCK FRAME, for Form C1 interlock
46856	Interlock frame, for Form C2 interlock
46857	Interlock frame, for Form C3 interlock
46778	Interlock frame, for Form C4 interlock
46777	Interlock frame, for Forms C5 and C9 interlocks
46776	Interlock frame, for Form C7 interlock
46862	Interlock frame, for Form D5 interlock
46863	Interlock frame, complete, for Form C8 interlock
46864	Side plate (right-hand) with reinforcing block.....
46865	Side plate (left-hand) with reinforcing block.....
46871	Reinforcing block with rivets and washers for side plates.....
46866	Top plate.....
46867	Bearing block, complete, for rod.....
46868	Bearing plate with drilled hole
46869	Bearing plate with tapped hole
46870	Screw fastening Nos. 46868, 46869 in position (4-36, $\frac{5}{8}$ in. f.h.).....
46872	Screw fastening No. 46867 to side plates (6-32, 1 in. f.h.)
8018	Screw fastening side plates to top plate (6-32, $\frac{1}{2}$ in. f.h.).....
46781	Bearing block for rod.....
27898	Screw fastening interlock frame and bearing block in position (14-24, $1\frac{1}{4}$ in. r.h. blued).....
22780	Lock washer for No. 27898 ($\frac{13}{16}$ in. by $\frac{1}{2}$ in. by 0.060 in.).....
46873	BLOWOUT COIL, complete, for Form D5 interlock

TYPE DI-61 INTERLOCKS

Cat. No.	Description
40581	Screw fastening blowout coil connection strip to interlock frame (10-32, 1¼ in. r.h. blued)
40582	Lock washer for No. 40581 ($\frac{11}{16}$ in. by $\frac{3}{8}$ in. by 0.050 in. ph. brz.)
44086	Copper terminal for No. 40581
46874	Nut for No. 40581 (10-32, $\frac{5}{8}$ in. thick, hex. cham., both sides)
46785	Contact stud, for Forms C1, C2, C3, C4, C5, C7, C8, C9 and short stud for Form D5 interlocks
46875	Long contact stud for Form D5 interlock
46876	Insulation for contact studs for Form D5 interlock
46877	Bushing for stud for Form D5 interlock



TYPE DI-61, FORM D5 INTERLOCK

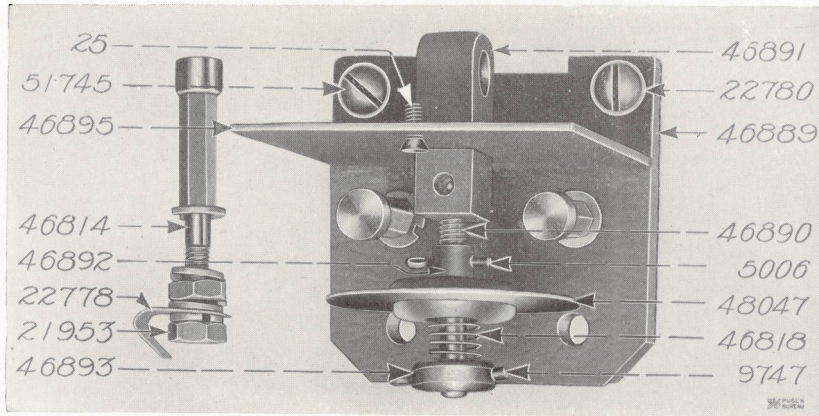
38937	Washer for contact stud ($\frac{11}{16}$ in. by $\frac{1}{2}$ in. by 0.060 in.)
22778	Copper terminal for contact stud
22213	Nut for Nos. 46785, 46875 (14-24, hex. brass)
22780	Lock washer for No. 22213 ($\frac{11}{16}$ in. by $\frac{1}{2}$ in. by 0.060 in.)
46789	Contact disk
46794	Pressure spring for contact disk
46878	Rod for contact disk for Form C1 interlock
46879	Rod for contact disk for Form C2 interlock
46880	Rod for contact disks for Form C3 interlock
46792	Rod for contact disks for Form C4 interlock
46791	Rod for contact disks for Form C5 interlock
46881	Rod for contact disks for Form C7 interlock
46882	Rod for contact disks for Form C8 interlock
46883	Rod for contact disks for Form C9 interlock
46884	Rod for contact disks for Form D5 interlock
46795	Brass collar for shaft for Forms C3, C5, C9, D5 and small collar for Forms C1, C2, C4, C7 and C8 interlocks
46796	Large brass collar for Forms C1, C2, C4, C7 and C8 interlocks
4030	Spring cotter for No. 46795 ($\frac{3}{32}$ in. by $\frac{5}{8}$ in.)
9747	Spring cotter for No. 46796 ($\frac{3}{32}$ in. by 1 in.)
44049	Adjusting nut for rod (14-24, hex. blued, cham., one side)
22780	Lock washer for No. 44049 ($\frac{11}{16}$ in. by $\frac{1}{2}$ in. by 0.060 in.)
46885	Operating lever
46886	Insulating connector for operating lever and rod
46887	Pin for Nos. 46885, 46886 ($\frac{1}{4}$ in. by $1\frac{1}{16}$ in.)
3839	Spring cotter for No. 46887 ($\frac{5}{64}$ in. by $\frac{3}{8}$ in.)

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TYPE DI-81, FORMS A1 AND A2 INTERLOCKS FOR USE WITH TYPE DB-81 FORM B CONTACTOR

Following are the parts:

Cat. No.	Description
46888	BACK PLATE for Form A1 interlock
46889	Back plate for Form A2 interlock
51745	Screw fastening back plate in position (14-24, $\frac{3}{4}$ in. r.h. blued).....
22780	Lock washer for No. 51745 ($\frac{17}{64}$ in. by $\frac{1}{2}$ in. by 0.060 in.).....
46814	CONTACT STUD.....
21953	Nut for No. 46814 (14-24, $\frac{3}{16}$ in. thick, hex. brass).....
22780	Lock washer for No. 21953 ($\frac{17}{64}$ in. by $\frac{1}{2}$ in. by 0.060 in.).....



NOTE.—The above illustration of the Type DI-81, Form A2 interlock is representative of the Form A1, the difference being in the location of the contact studs.

22778	Copper terminal for contact stud.....
48047	Contact disk.....
46890	Rod for contact disk.....
46818	Pressure spring for contact disk.....
46891	Connection block with pin for rod.....
46892	Brass sleeve for rod.....
46893	Brass collar for rod.....
5006	Spring cotter for No. 46892 ($\frac{3}{32}$ in. by $\frac{1}{2}$ in.).....
9747	Spring cotter for No. 46893 ($\frac{3}{32}$ in. by 1 in.).....
46894	Insulation for contact studs for Form A1 interlock
46895	Insulation for contact studs for Form A2 interlock
25	Screw fastening insulation in position (10-32, $\frac{1}{4}$ in. f.h.).....

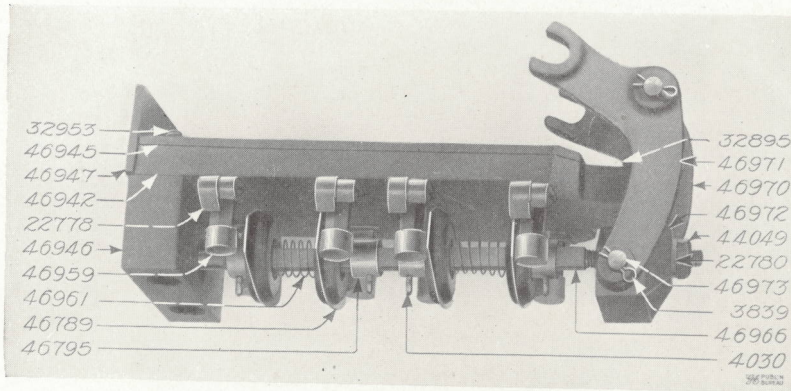
TYPE DI-91, FORMS A1, A2, A3, A4, A5, A7, A9 AND B5 INTERLOCKS FOR USE WITH TYPE DB-91, FORM D CONTACTOR

Following are the parts:

46939	INTERLOCK BASE for Forms A1 and A2 interlocks.....
46940	Interlock base for Form A3 interlock
46941	Interlock base for Form A4 interlock
46942	Interlock base for Forms A5 and A9 interlocks.....
46943	Interlock base for Form A7 interlock
46944	Interlock base for Form B5 interlock
46945	Insulation for base.....
46946	Bearing block for rod.....
32895	Screw fastening interlock base and insulation in position (14-24, $\frac{3}{4}$ in. f.h. blued).....

TYPE DI-91 INTERLOCKS

Cat. No.	Description
32953	Screw fastening bearing block, interlock base and insulation in position (14-24, 1½ in. r.h. blued).....
22780	Lock washer for No. 32953 (¼ in. by ½ in. by 0.060 in.).....
46947	End shield.....
46948	Screw fastening No. 46947 to interlock base (No. 6, ½ in. f.h.).....
46949	BLOWOUT COIL for Form B5 interlock.....
46950	Connection strip for blowout coil and contact stud.....
46951	Connection strip for blowout coil and terminal.....
44086	Copper terminal for No. 46951.....



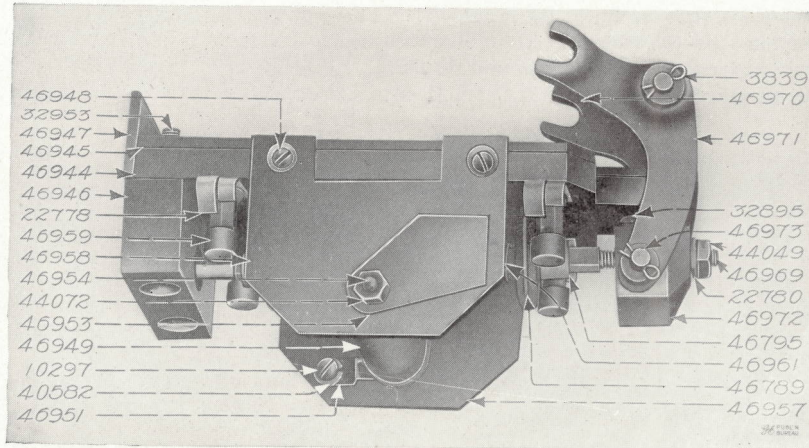
NOTE.—The above illustration of the Type DI-91, Form A5 interlock is representative of Forms A1, A2, A3, A4, A7 and A9, the difference being in the number and position of the contact disks.

10297	Screw fastening No. 44086 in position (10-32, ⅝ in. r.h. blued).....
46952	Nut for No. 10297 (10-32, hex. cham., both sides).....
40582	Lock washer for No. 10297 (¼ in. by ½ in. by 0.044 in.).....
46953	POLE PIECE, two parts, with blowout coil core and nuts for Form B5 interlock.....
46954	Blowout coil core (10-32, 3⅜ in. long).....
44072	Nut for No. 46954 (10-32, hex. cham., one side).....
46955	Insulation sleeve for No. 46954.....
45163	Washer for No. 46955 (¼ in. by ⅝ in. by ⅛ in. thick fiber).....
46956	Washer for No. 46955 (¼ in. by ⅞ in. by ⅛ in. thick mica).....
46957	Support for blowout coil (right-hand).....
46958	Support for blowout coil (left-hand).....
46948	Screw fastening support to interlock base (No. 6, ½ in. f.h.).....
46959	Contact stud.....
22780	Lock washer for No. 46959 (¼ in. by ½ in. by 0.060 in.).....
22778	Copper terminal for No. 46959.....
22213	Nut for No. 46959 (14-24, hex. brass).....
46960	Insulation for contact studs for Form B5 interlock.....
46789	Contact disk.....
46961	Pressure spring for contact disk.....
46962	Rod for contact disk for Form A1 interlock.....
46963	Rod for contact disk for Form A2 interlock.....
46964	Rod for contact disks for Form A3 interlock.....
46965	Rod for contact disks for Form A4 interlock.....
46966	Rod for contact disks for Form A5 interlock.....
46967	Rod for contact disks for Form A7 interlock.....
46968	Rod for contact disks for Form A9 interlock.....

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TYPE DI-91 INTERLOCKS

Cat. No.	Description
46969	Rod for contact disk for Form B5 interlock
46795	Brass collar for rod for Forms A3, A5, A9, B5 and small collar for Forms A1, A2, A4 and A7 interlocks
46796	Large brass collar for Forms A1, A2, A4 and A7 interlocks



TYPE DI-91, FORM B5 INTERLOCK

4030	Spring cotter for No. 46795 ($\frac{3}{2}$ in. by $\frac{5}{8}$ in.)
9747	Spring cotter for No. 46796 ($\frac{3}{2}$ in. by 1 in.)
44049	Adjusting nut for rod (14-24, hex. blued, cham., one side)
22780	Lock washer for No. 44049 ($\frac{17}{64}$ in. by $\frac{1}{2}$ in. by 0.060 in.)
22213	Locking nut for shaft (14-24, hex. brass)
46970	Operating lever arm (right-hand)
46971	Operating lever arm (left-hand)
46972	Insulating connector for operating lever arms and rod
46973	Pin for Nos. 46970, 46971, 46972 ($\frac{1}{4}$ in. by $2\frac{7}{16}$ in.)
3839	Spring cotter for No. 46973 ($\frac{5}{8}$ in. by $\frac{3}{8}$ in.)

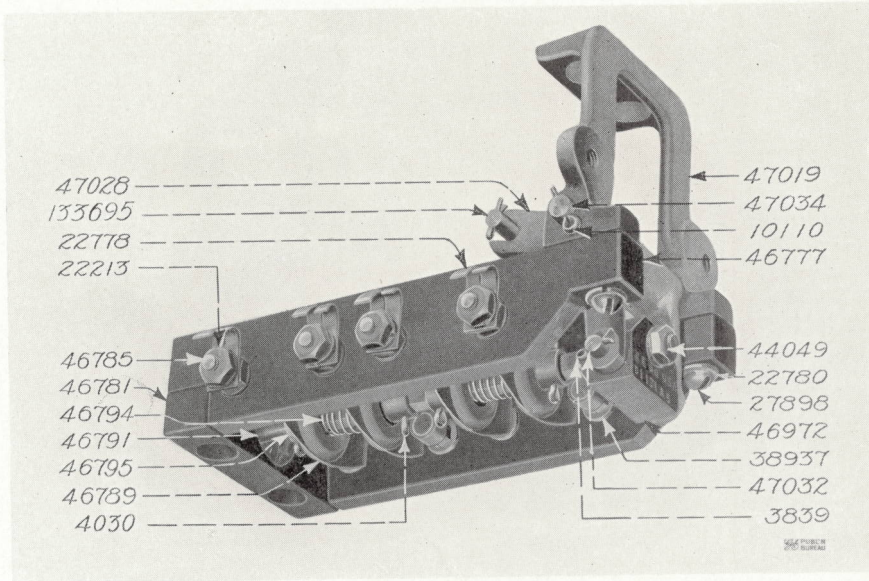
TYPES DI-131 AND DI-141, FORMS A1, A2, A3, A4, A5, A7, A8, A9, A10, A11, A13, A15, A16, A17 AND B5 INTERLOCKS FOR USE WITH TYPES DB-131 AND DB-141, FORM B CONTACTORS

Following are the parts:

46855	INTERLOCK FRAME for Form A1 interlock
46856	Interlock frame for Form A2 interlock
46857	Interlock frame for Form A3 interlock
46778	Interlock frame for Form A4 interlock
46777	Interlock frame for Forms A5, A9 and A10 interlocks
46776	Interlock frame for Form A7 interlock
46858	Interlock frame for Form A11 interlock
46859	Interlock frame for Form A13 interlock
46860	Interlock frame for Form A15 interlock
46861	Interlock frame for Form A16 interlock
46841	Interlock frame for Form A17 interlock
46862	Interlock frame for Form B5 interlock
47018	Interlock frame, complete, for Type DI-131, Form A8 interlock, for use with Type DB-131, Form B contactor only
46864	Side plate (right-hand) with reinforcing block
46865	Side plate (left-hand) with reinforcing block
46871	Reinforcing block with rivets and washers for side plates
47037	Top plate

TYPES DI-131 AND DI-141 INTERLOCKS

Cat. No.	Description
46867	Bearing block complete, for shaft
46868	Bearing plate with drilled hole
46869	Bearing plate with tapped hole
46870	Screw fastening Nos. 46868, 46869 in position (4-36, 5/8 in. f.h.).....
46872	Screw fastening No. 46867 to side plates (6-32, 1 in. f.h.).....
8018	Screw fastening side plates to top plate (6-32, 1/2 in. f.h.).....
47019	Supporting bracket for Type DI-131 interlocks.....
47020	Supporting bracket for Type DI-141 interlocks.....



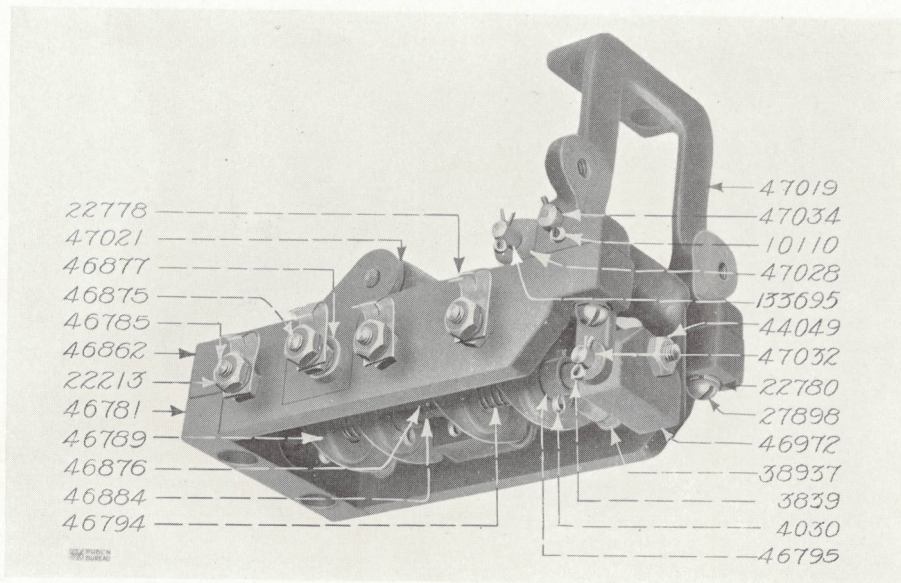
NOTE.—The above illustration of the Type DI-131, Form A5 interlock is representative of Types DI-131 and DI-141, Forms A1, A2, A3, A4, A7, A8, A9, A10, A11, A13, A15, A16 and A17, the principal difference being in the number and position of the contact disks.

46781	Bearing block for shaft
27898	Screw fastening interlock frame and bearing block in position (14-24, 1 1/4 in. r.h. blued)
22780	Lock washer for No. 27898 (11/16 in. by 1/2 in. by 0.060 in.).....
47021	BLOWOUT COIL, complete, for Form B5 interlock
40581	Screw fastening blowout coil connection strip to interlock frame (10-32, 1 1/4 in. r.h. blued)
40582	Lock washer for No. 40581 (11/16 in. by 11/32 in. by 0.044 in.).....
44086	Copper terminal for No. 40581.....
46874	Nut for No. 40581 (10-32, 5/8 in. thick, hex. cham., both sides).....
46785	Contact stud for Forms A1, A2, A3, A4, A5, A7, A8, A9, A10, A11, A13, A15, A16, A17 and short stud for Form B5 interlock
46875	Long contact stud for Form B5 interlock
46876	Insulation for contact studs for Form B5 interlock
46877	Bushing for stud for Form B5 interlock
38937	Washer for contact stud (11/16 in. by 1/2 in. by 0.060 in.).....
22778	Copper terminal for contact stud.....
22213	Nut for Nos. 46785, 46875 (14-24, hex. brass).....
22780	Lock washer for No. 22213 (11/16 in. by 1/2 in. by 0.060 in.).....
46789	CONTACT DISK.....
46794	Pressure spring for contact disk.....

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TYPES DI-131 AND DI-141 INTERLOCKS

Cat. No.	Description
46878	Rod for contact disk for Form A1 interlock
46879	Rod for contact disk for Form A2 interlock
46880	Rod for contact disks for Form A3 interlock
46792	Rod for contact disks for Form A4 interlock
46791	Rod for contact disks for Form A5 interlock
46790	Rod for contact disks for Form A7 interlock
46882	Rod for contact disks for Form A8 interlock
46883	Rod for contact disks for Form A9 interlock
47022	Rod for contact disks for Form A10 interlock



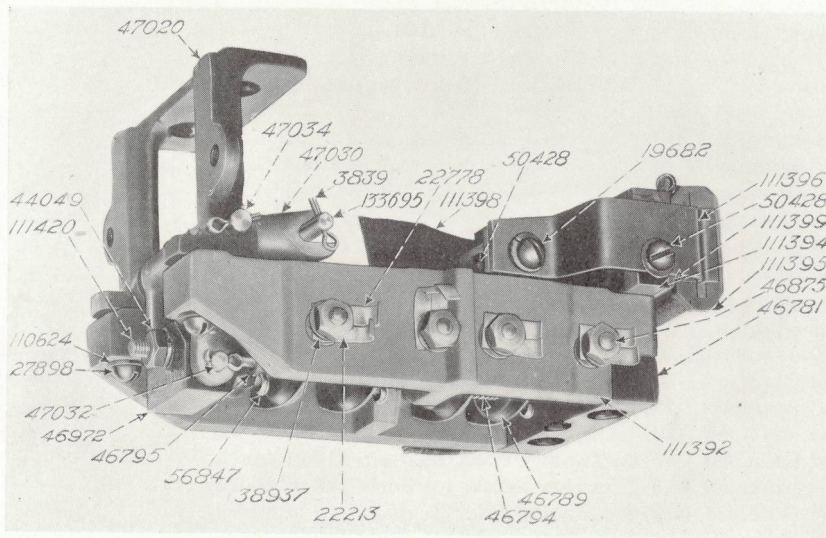
TYPE DI-131, FORM B5 INTERLOCK

47023	Rod for contact disks for Form A11 interlock
47024	Rod for contact disks for Form A13 interlock
47025	Rod for contact disks for Form A15 interlock
47026	Rod for contact disks for Form A16 interlock
47027	Rod for contact disks for Form A17 interlock
46884	Rod for contact disks for Form B5 interlock
46795	Brass collar for rod for Forms A3, A5, A9, A10, A17, B5 and small collar for Forms A1, A2, A4, A7, A8, A11, A13, A15 and A16 interlocks
46796	Large brass collar for rod for Forms A1, A2, A4, A7, A8, A11, A13, A15 and A16 interlocks ..
4030	Spring cotter for No. 46795 ($\frac{3}{32}$ in. by $\frac{5}{8}$ in.)
9747	Spring cotter for No. 46796 ($\frac{3}{32}$ in. by 1 in.)
44049	Adjusting nut for rod (14-24, hex. blued, cham., one side)
22780	Lock washer for No. 44049 ($\frac{17}{64}$ in. by $\frac{1}{2}$ in. by 0.060 in.)
22213	Locking nut for rod (14-24, hex. brass)
47028	Operating lever for Type DI-131, Forms A1, A2, A3, A4, A5, A7, A9, A10, A11, A13, A15, A16, A17 and B5 interlocks
47029	Operating lever for Type DI-131, Form A8 interlock
47030	Operating lever for Type DI-141, Forms A1, A2, A3, A4, A5, A7, A9, A10, A11, A13, A15, A16, A17, and B5 interlocks
46972	Insulating connector for operating lever and shaft, for Forms A1, A2, A3, A4, A5, A7, A9, A10, A11, A13, A15, A16, A17 and B5 interlocks
47031	Insulating connector for operating lever and rod, for Form A8 interlock

PARTS OF DI-131 AND DI-141 INTERLOCKS

Cat. No.	Description
47032	Pin for operating lever and insulating connector for Forms A1, A2, A3, A4, A5, A7, A9, A10, A11, A13, A15, A16, A17 and B5 interlocks ($\frac{1}{4}$ in. by $2\frac{5}{16}$ in. Tob. brz.)
47033	Pin for operating lever and insulating connector for Form A8 interlock ($\frac{1}{4}$ in. by $1\frac{3}{8}$ in. brass)
47034	Pin for operating lever and supporting bracket for Forms A1, A2, A3, A4, A5, A7, A9, A10 A11, A13, A15, A16, A17 and B5 interlocks ($\frac{5}{16}$ in. by $3\frac{1}{8}$ in. Tob. brz.)
47035	Pin for operating lever and supporting bracket for Form A8 interlock ($\frac{5}{16}$ in. by $3\frac{1}{8}$ in.)
133695	Pin for operating lever and contactor contact lever ($\frac{1}{4}$ in. by $2\frac{1}{8}$ in.)
89404	Spring cotter for No. 47033 ($\frac{1}{8}$ in. by $\frac{5}{8}$ in.)
10110	Spring cotter for Nos. 47034, 47035 ($\frac{5}{16}$ in. by $\frac{1}{2}$ in.)
3839	Spring cotter for Nos. 47032, 133695 ($\frac{5}{16}$ in. by $\frac{3}{8}$ in.)

PARTS OF TYPES DI-131 AND DI-141, FORMS J1, J2, J3, J4, J5, J7, J9, J10, J13, J15, J16, J17, J18, J19, J20, J21, J24, J27 AND H5 INTERLOCKS FOR USE WITH TYPES DB-131 AND DB-141, FORM B CONTACTORS



TYPE DI-141, FORM H5 INTERLOCK

Following are the parts:

111391	INTERLOCK FRAME for Forms J1, J2, J3, J4, J5, J7, J9, J10, J13, J15, J16, J17, J18, J19, J20, J21, J24, and J27 interlocks
111392	Interlock frame for Form H5 interlock
46294	Supporting bracket for Type DI-131, Forms J1, J2, J3, J4, J5, J7, J9, J10, J13, J15, J16, J17, J18, J19, J20, J21, J24, and J27 interlocks
47097	Supporting bracket for Type DI-141, Forms J1, J2, J3, J4, J5, J7, J9, J10, J13, J15, J16, J17, J18, J19, J20, J21, J24 and J27 interlocks
111393	Insulation blocks with supporting bracket, for Type DI-131, Form H5 interlock
111394	Insulation blocks with supporting bracket, for Type DI-141, Form H5 interlock
11096	Screw fastening Nos. 46294, 47097 to contactor (14-24, $\frac{5}{8}$ in. r.h. blued)
50428	Screw fastening Nos. 111393, 111394 to contactor (14-24, $\frac{1}{2}$ in. r.h. blued)
110624	Positive lock washer for Nos. 11096, 50428 ($\frac{3}{32}$ in. by $\frac{9}{16}$ in. by $\frac{5}{16}$ in. thick)
47019	Supporting bracket for interlock and contactor arc chute, for Type DI-131 interlocks
47020	Supporting bracket for interlock and contactor arc chute, for Type DI-141 interlocks
46781	Bearing block for shaft
27898	Screw fastening interlocking frame and bearing block in position (14-24, $1\frac{1}{4}$ in. r.h. blued)
110624	Positive lock washer for No. 27898 ($\frac{3}{32}$ in. by $\frac{9}{16}$ in. by $\frac{5}{16}$ in. thick)
111395	BLOWOUT COIL, complete, with leads and terminals, for Form H5 interlock

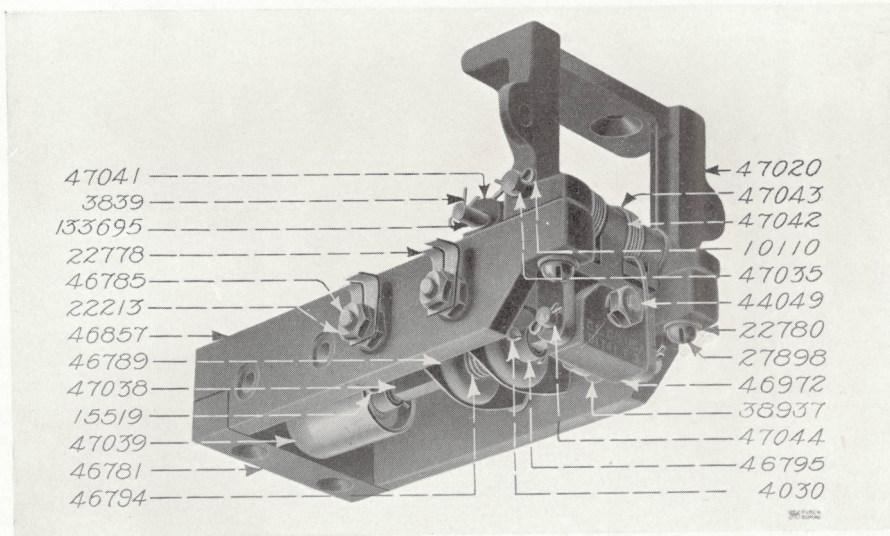
4970-46 *Parts of Contactors and Interlocks*

PARTS OF TYPES DI-131 AND DI-141 INTERLOCKS

Cat. No.	Description
46788	Copper terminal for blowout coil lead.....
111396	Pole piece (right-hand).....
111397	Pole piece (left-hand).....
111398	Insulation shield for No. 111397.....
50428	Screw fastening Nos. 111396, 111397, 111398 to insulation blocks (14-24, 1/2 in. r.h. blued)....
19682	Screw fastening Nos. 111396, 111397, 111398 to interlock frame (14-24, 3/8 in. r.h. blued).....
110624	Positive lock washer for Nos. 50428, 19682 (3/2 in. by 9/16 in. by 5/64 in. thick).....
111399	Insulation shield between blowout coil and supporting bracket.....
10076	Screw fastening No. 111399 to insulation blocks (10-32, 3/8 in. f.h.).....
46875	Contact stud.....
111400	Connection strip for contact studs (1 in. between centers of holes).....
111401	Connection strip for contact studs (1 9/16 in. between centers of holes).....
38937	Washer for contact stud (17/64 in. by 1/2 in. by 0.060 in.).....
22778	Copper terminal, right-hand, for contact stud.....
46788	Copper terminal, left-hand, for contact stud.....
22213	Nut for contact stud (14-24, hex. flat brass).....
110624	Positive lock washer for No. 22213 (3/2 in. by 9/16 in. by 5/64 in. thick).....
46789	Contact disk.....
46794	Pressure spring for contact disk.....
111402	Rod (stamped J-1) for contact disk for Form J1 interlock.....
111403	Rod (stamped J-2) for contact disk for Form J2 interlock.....
111404	Rod (stamped J-3) for contact disks for Form J3 interlock.....
111405	Rod (stamped J-4) for contact disks for Form J4 interlock.....
111406	Rod (stamped J-5) for contact disks for Form J5 interlock.....
111407	Rod (stamped J-7) for contact disks for Form J7 interlock.....
111408	Rod (stamped J-9) for contact disks for Form J9 interlock.....
111409	Rod (stamped J-10) for contact disks for Form J10 interlock.....
111410	Rod (stamped J-13) for contact disks for Form J13 interlock.....
111411	Rod (stamped J-15) for contact disks for Form J15 interlock.....
111412	Rod (stamped J-16) for contact disks for Form J16 interlock.....
111413	Rod (stamped J-17) for contact disks for Form J17 interlock.....
111414	Rod (stamped J-18) for contact disks for Form J18 interlock.....
111415	Rod (stamped J-19) for contact disks for Form J19 interlock.....
111416	Rod (stamped J-20) for contact disks for Form J20 interlock.....
111417	Rod (stamped J-21) for contact disks for Form J21 interlock.....
111418	Rod (stamped J-24) for contact disks for Form J24 interlock.....
111419	Rod (stamped J-27) for contact disks for Form J27 interlock.....
111420	Rod (stamped H-5) for contact disks for Form H5 interlock.....
46795	Brass collar for rod, for Forms J3, J5, J9, J10, J17, J19, J20, J21, J24, and H5, and small collar for Forms J1, J2, J4, J7, J13, J15, J16, J18 and J27 interlocks.....
46796	Large brass collar for rod for Forms J1, J2, J4, J7, J13, J15, J16, J18, and J27 interlocks.....
56847	Spring cotter for No. 46795 (1/8 in. by 5/8 in.).....
16076	Spring cotter for No. 46796 (1/8 in. by 1 in.).....
44049	Adjusting nut for rod (14-24, 3/8 in. thick, 1/2 in. across flats, hex. blued cham., one side)....
110624	Positive lock washer for No. 44049 (3/2 in. by 9/16 in. by 5/64 in. thick).....
22213	Locking nut for rod (14-24, hex. flat brass).....
47028	Operating lever for Type DI-131 interlocks.....
47030	Operating lever for Type DI-141 interlocks.....
46972	Insulating connector for operating lever and rod.....
47032	Pin for operating lever and insulating connector (1/4 in. by 2 5/16 in. Tob. bronze).....
47034	Pin for operating lever and supporting bracket (5/16 in. by 3 11/16 in. Tob. bronze).....
133695	Pin for operating lever and contactor contact lever (1/4 in. by 2 13/16 in.).....
3839	Spring cotter for Nos. 47032, 133695 (5/64 in. by 3/8 in.).....
10110	Spring cotter for No. 47034 (5/64 in. by 1/2 in.).....

TYPE DI-141, FORM E3 INTERLOCK FOR USE WITH TYPE DB-141, FORM B CONTACTOR

Cat. No.	Description
	<i>Following are the parts:</i>
46857	INTERLOCK FRAME
47020	Supporting bracket for interlock
46781	Bearing block for shaft
27898	Screw fastening interlock frame and bearing block in position (14-24, 1 1/4 in. r.h. blued)
22780	Lock washer for No. 27898 (5/16 in. by 1/2 in. by 0.060 in.)
46785	Contact stud
38937	Washer for contact stud (5/16 in. by 1/2 in. by 0.060 in.)
22778	Copper terminal for contact stud



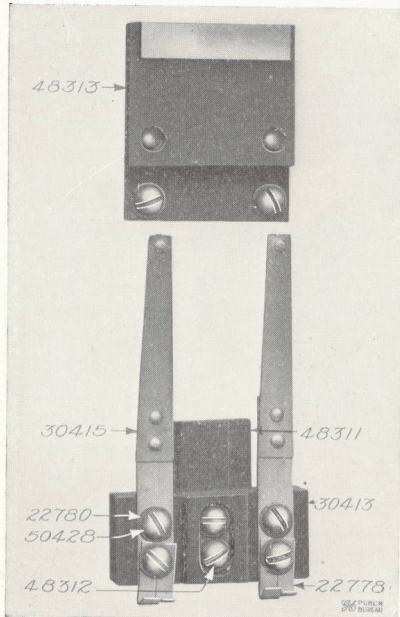
TYPE DI-141, FORM E3 INTERLOCK

22213	Nut for contact stud (14-24, hex. brass)
22780	Lock washer for No. 22213 (5/16 in. by 1/2 in. by 0.060 in.)
46789	Contact disk
46794	Pressure spring for contact disk
47038	Rod for contact disk
46795	Brass collar for rod
4030	Spring cotter for No. 46795 (3/8 in. by 5/8 in.)
47039	DASHPOT, complete, with plunger and spring cotter
15519	Spring cotter for dashpot plunger and shaft (3/8 in. by 3/4 in.)
47040	Cap screw fastening dashpot in position (14-24, 1/2 in. hex. h.)
44049	Adjusting nut for shaft (14-24, hex. blued, cham., one side)
22780	Lock washer for Nos. 47040, 44049 (5/16 in. by 1/2 in. by 0.060 in.)
22213	Locking nut for shaft (14-24, hex. brass)
47041	Operating lever
47042	Operating lever arm
47043	Spring for Nos. 47041, 47042
46972	Insulating connector for operating lever arm and rod
47044	Pin for operating lever arm and insulating connector (1/4 in. by 2 5/16 in.)
47035	Pin for Nos. 47041, 47042 and supporting bracket (5/16 in. by 3 11/16 in.)
133695	Pin for operating lever and contactor contact lever (1/4 in. by 2 13/16 in.)
3839	Spring cotter for Nos. 47044, 133695 (5/8 in. by 3/8 in.)
10110	Spring cotter for No. 47035 (5/8 in. by 1/2 in.)

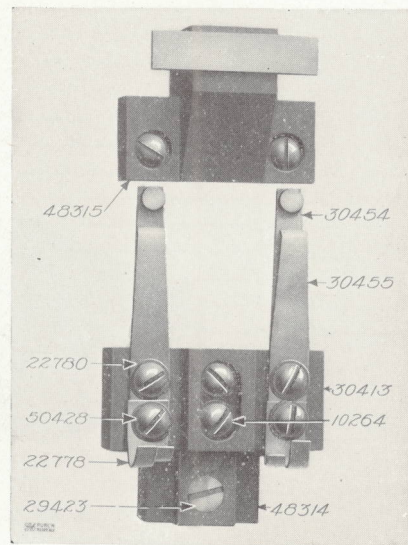
4970-48 Parts of Contactors and Interlocks

TYPE DI-141, FORM 1 INTERLOCK FOR USE WITH TYPE DB-141, FORM D CONTACTOR

Cat. No.	Description
<i>Following are the parts:</i>	
30413	CONTACT BLOCK.....
48311	Support for contact block.....
48312	Screw fastening contact block and support to contactor mechanism plate (14-24, 1 3/4 in. r.h. blued).....
22780	Lock washer for No. 48312 (11/16 in. by 1/2 in. by 0.060 in.).....
30415	Contact finger, complete.....
30416	Contact finger with contact tip and rivets.....



FORM 1 INTERLOCK



FORM 2 INTERLOCK

50428	Screw fastening No. 30415 to contact block (14-24, 1/2 in. r.h. blued).....
22780	Lock washer for No. 50428 (11/16 in. by 1/2 in. by 0.060 in.).....
22778	Copper terminal for contact finger.....
48313	Contact support with contact.....
50428	Screw fastening No. 48313 to contactor contact lever (14-24, 1/2 in. r.h. blued).....
22780	Lock washer for No. 50428 (11/16 in. by 1/2 in. by 0.060 in.).....

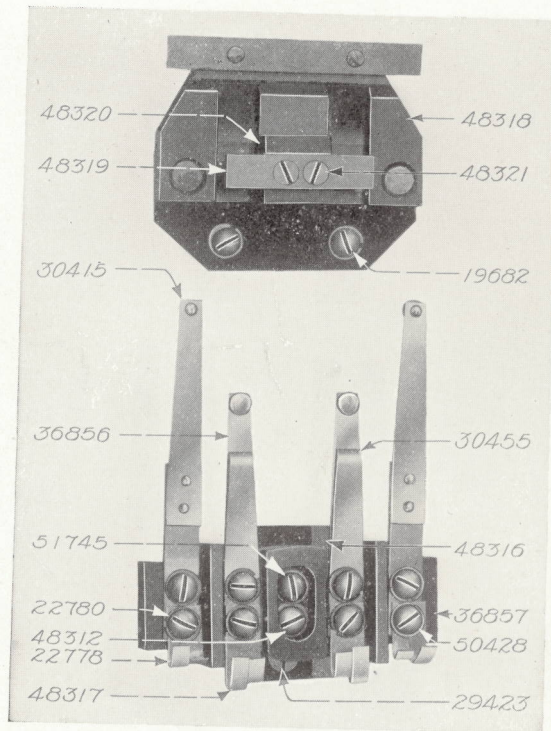
FORM 2 INTERLOCK FOR USE WITH TYPE DB-141, FORM D CONTACTOR

<i>Following are the parts:</i>	
30413	CONTACT BLOCK.....
48314	Support for contact block.....
29423	Screw fastening support to contactor mechanism plate (14-24, 1 1/4 in. f.h.).....
10264	Screw fastening contact block to support (14-24, 1 in. r.h. blued).....
22780	Lock washer for No. 10264 (11/16 in. by 1/2 in. by 0.060 in.).....
30454	Contact finger with contact tip.....
30455	Contact finger stop.....
50428	Screw fastening Nos. 30454, 30455 to contact block (14-24, 1/2 in. r.h. blued).....
22780	Lock washer for No. 50428 (11/16 in. by 1/2 in. by 0.060 in.).....
22778	Copper terminal for contact finger.....

FORM 2 INTERLOCK FOR USE WITH TYPE DB-141, FORM D CONTACTOR

Cat. No.	Description
48315	Contact support with contact.....
50428	Screw fastening No. 48315 to contactor contact lever (14-24, 1/2 in. r.h. blued).....
22780	Lock washer for No. 50428 (17/64 in. by 1/2 in. by 0.060 in.).....

FORM 3 INTERLOCK FOR USE WITH TYPE DB-141, FORM D CONTACTOR



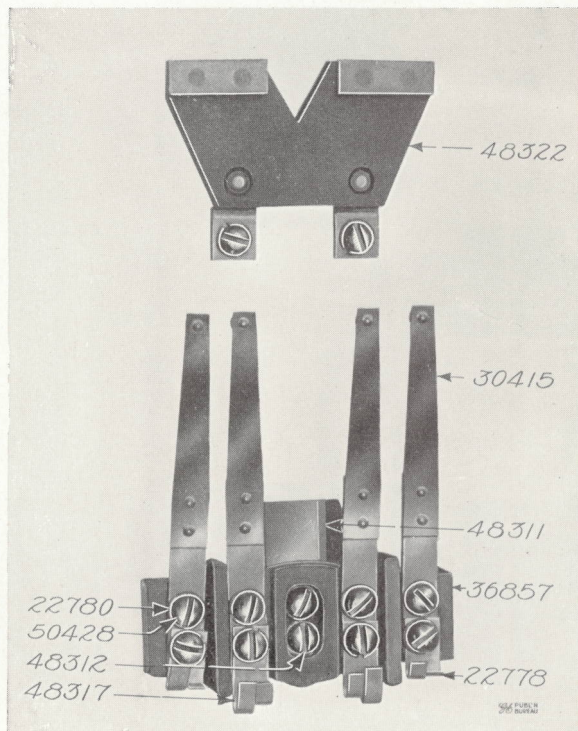
Following are the parts:

36857	CONTACT BLOCK.....
48316	Support for contact block.....
29423	Short screw fastening support to contactor mechanism plate (14-24, 1 1/4 in. f.h.).....
51745	Short screw fastening contact block to support (14-24, 3/4 in. r.h. blued).....
48312	Long screw fastening contact block and support to contactor mechanism plate (14-24, 1 3/4 in. r.h. blued).....
22780	Lock washer for Nos. 51745, 48312 (17/64 in. by 1/2 in. by 0.060 in.).....
30415	Long contact finger complete.....
30416	Contact finger, with contact tip and rivets.....
36856	Short contact finger with contact tip.....
30455	Contact finger stop.....
50428	Screw fastening Nos. 30415, 36856, 30455 to contact block (14-24, 1/2 in. r.h. blued).....
22780	Lock washer for No. 50428 (17/64 in. by 1/2 in. by 0.060 in.).....
22778	Short copper terminal for contact block.....
48317	Long copper terminal for contact block.....
48318	Contact support with contacts.....
48319	Brass contact.....
48320	Support for brass contact.....
48321	Screw fastening Nos. 48319, 48320 to contact support (10-32, 3/4 in. f.h.).....
19682	Screw fastening No. 48318 to contactor contact lever (14-24, 3/8 in. r.h. blued).....
22780	Lock washer for No. 19682 (17/64 in. by 1/2 in. by 0.060 in.).....

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FORM 4 INTERLOCK FOR USE WITH TYPE DB-141, FORM D CONTACTOR

Cat. No.	Description
	<i>Following are the parts:</i>
36857	CONTACT BLOCK.....
48311	Support for contact block.....
48312	Screw fastening contact block and support to contactor mechanism plate (14-24, 1 3/4 in. r.h. blued).....

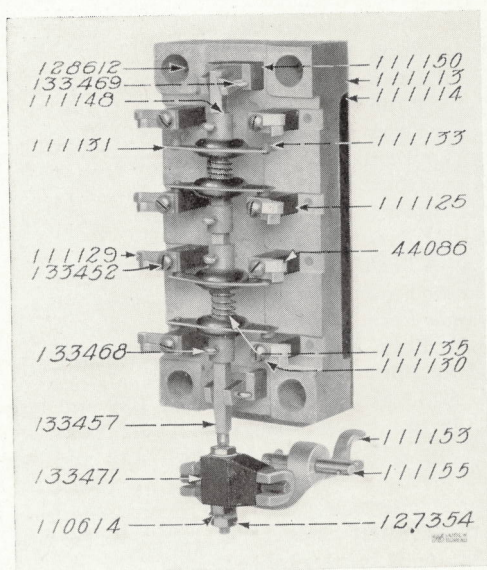


22780	Lock washer for No. 48312 (17/64 in. by 1/2 in. by 0.060 in.).....
30415	Contact finger, complete.....
30416	Contact finger with contact tip and rivets.....
50428	Screw fastening No. 30415 to contact block (14-24, 1/2 in. r.h. blued).....
22780	Lock washer for No. 50428 (17/64 in. by 1/2 in. by 0.060 in.).....
22778	Short copper terminal for contact finger.....
48317	Long copper terminal for contact finger.....
48322	Contact support with contacts.....
50428	Screw fastening No. 48322 to contactor contact lever (14-24, 1/2 in. r.h. blued).....
22780	Lock washer for No. 50428 (17/64 in. by 1/2 in. by 0.060 in.).....

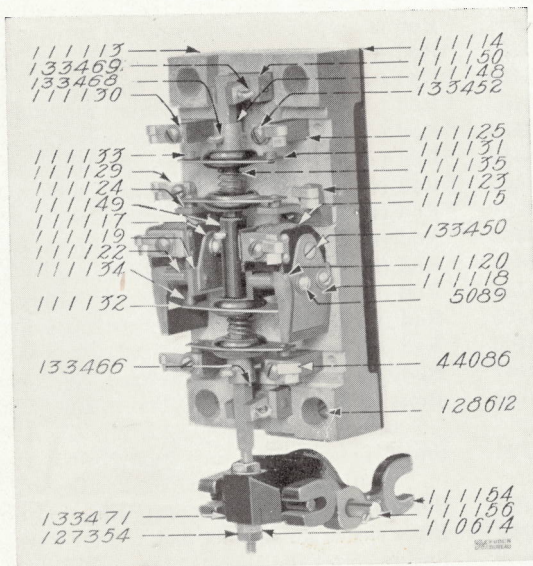
TYPES DI-160 AND DI-166, FORMS A1, A2, A3, A4, A5, A7, A18, A20, A24, A25, A27, A28, A29, B5 AND B30 INTERLOCKS

NOTE.—Type DI-160 interlocks are for use with Type DB-160, Forms A, D and F contactors.
Type DI-166 interlocks are for use with Type DB-166, Forms A and B contactors.

Cat. No.	Description
111113	INTERLOCK FRAME
128612	Screw fastening interlock frame in position (14-24, 1 in. r.h. sherardized).....
110624	Positive lock washer for No. 128612 ($\frac{3}{32}$ in. by $\frac{9}{16}$ in. by $\frac{5}{64}$ in. thick).....
110789	Washer for No. 128612 ($\frac{17}{64}$ in. by $\frac{1}{2}$ in. by 0.014 in.).....
111114	Insulation plate between interlock frame and contactor.....



DI-160-A-5 INTERLOCK



DI-166-B-5 INTERLOCK

111115	BLOWOUT COIL, complete, for Forms B5 and B30 interlocks
111117	Inside pole piece with pins, for blowout coil.....
111118	Outside pole piece for blowout coil.....
111119	Barrier between inside pole piece and contact post.....
111120	Barrier between outside pole piece and contact post.....
133450	Screw fastening pole pieces to blowout coil core (8-32, $\frac{1}{4}$ in. f.h. sherardized).....
5089	Screw fastening Nos. 111118, 111120 to contact post (8-32, $\frac{1}{2}$ in. r.h. brass).....
111121	Positive lock washer for No. 5089 ($\frac{11}{64}$ in. by $\frac{23}{64}$ in. by $\frac{3}{64}$ in. thick).....
111122	Contact post for blowout-coil for Forms B5 and B30 interlocks
111123	Inside contact post (right-hand) for Forms B5 and B30 interlocks
111124	Inside contact post (left-hand) for Forms B5 and B30 interlocks
111125	Contact post for Forms A1, A2, A3, A4, A5, A7, A18, A20, A24, A25, A27, A28 and A29 interlocks and outside contact post for Forms B5 and B30 interlocks
17398	Screw fastening No. 111122 in position (12-24, $\frac{3}{4}$ in. r.h. brass).....
133451	Screw fastening Nos. 111123, 111124, 111125 in position (12-24, $\frac{3}{4}$ in. r.h. sherardized).....
111126	Positive lock washer for Nos. 17398, 133451 ($\frac{5}{32}$ in. by $\frac{7}{32}$ in. by $\frac{3}{64}$ in. thick).....
17399	Washer for Nos. 17398, 133451 ($\frac{13}{64}$ in. by $\frac{7}{16}$ in. by 0.014).....
111127	Connection strip for contact posts ($1\frac{1}{8}$ in. between centers of holes).....
111128	Connection strip for contact posts ($1\frac{5}{8}$ in. between centers of holes).....
44086	Copper terminal (right-hand) for contact posts and blowout coils.....

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PARTS OF TYPE DI-160 AND TYPE DI-166 INTERLOCKS

Cat. No.	Description
111129	Copper terminal (left-hand) for contact posts and blowout coils
133452	Screw fastening terminals in position (10-32, ¼ in. r.h. sherardized).....
111130	Positive lock washer for No. 133452 ($\frac{3}{16}$ in. by $\frac{3}{8}$ in. by $\frac{3}{64}$ in. thick).....
111131	CONTACT DISK, complete, with contact tips for Forms A1, A2, A3, A4, A5, A7, A18, A20, A24, A25, A27, A28 and A29 interlocks and contact disk with small contact tips for Forms B5 and B30 interlocks.....
111132	Contact disk, complete, with large contact tips for Forms B5 and B30 interlocks.....
111133	Contact tip for No. 111131.....
111134	Contact tip for No. 111132.....
111135	Pressure spring for contact disks.....
133453	* Rod (stamped A-1, sherardized) for contact disk for Form A1 interlock.....
133454	* Rod (stamped A-2, sherardized) for contact disk for Form A2 interlock.....
133455	* Rod (stamped A-3, sherardized) for contact disks for Form A3 interlock.....
133456	* Rod (stamped A-4, sherardized) for contact disks for Form A4 interlock.....
133457	* Rod (stamped A-5, sherardized) for contact disks for Form A5 interlock.....
133458	* Rod (stamped A-7, sherardized) for contact disks for Form A7 interlock.....
133459	* Rod (stamped A-18, sherardized) for contact disks for Form A18 interlock.....
133460	* Rod (stamped A-20, sherardized) for contact disks for Form A20 interlock.....
133461	* Rod (stamped A-24, sherardized) for contact disks for Form A24 interlock.....
133462	* Rod (stamped A-25, sherardized) for contact disks for Form A25 interlock.....
133463	* Rod (stamped A-27, sherardized) for contact disks for Form A27 interlock.....
133464	Rod (stamped A-28, sherardized) for contact disks for Form A28 interlock.....
133465	Rod (stamped A-29, sherardized) for contact disks for Form A29 interlock.....
133466	* Rod (stamped B-5, sherardized) for contact disks for Form B5 interlock.....
133467	Rod (stamped B-30, sherardized) for contact disks for Form B30 interlock.....
111148	Brass collar for contact disk rod for Forms A3, A5, A20, A24, A25, B5 and B30 and large collar for Forms A1, A2, A4, A7, A18, A27, A28 and A29 interlocks
46796	Small brass collar for contact disk rod for Forms A1, A2, A4, A7, A18, A28 and A29 interlocks
46795	Small brass collar for contact disk rod for Form A27 interlock
111149	Fiber sleeve for contact disk rod for Forms B5 and B30 interlocks.....
133468	Spring cotter for Nos. 111148, 46795, 111149 ($\frac{1}{8}$ in. by $\frac{3}{4}$ in. sherardized).....
105302	Spring cotter for No. 46796 ($\frac{1}{8}$ in. by 1 in. sherardized).....
111150	Bracket with operating links 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)
111126	Positive lock washer for No. 133470 ($\frac{7}{32}$ in. by $\frac{13}{32}$ in. by $\frac{3}{64}$ in. thick).....
17399	Washer for No. 133470 ($\frac{15}{64}$ in. by $\frac{7}{16}$ in. by 0.014 in.).....
111153	OPERATING LEVER for Type DI-160 interlocks.....
111154	Operating lever for Type DI-166 interlocks.....
111155	Pin for No. 111153 and contactor bracket ($\frac{5}{16}$ in. by $1\frac{1}{16}$ in. Tob. bronze).....
111156	Pin for No. 111154 and contactor bracket ($\frac{5}{16}$ in. by $1\frac{5}{8}$ in.).....
10110	Spring cotter for Nos. 111155, 111156 ($\frac{5}{64}$ in. by $\frac{1}{2}$ in.).....
133471	* 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, $\frac{19}{32}$ in. across flats, hex. cham., one side sherardized).....
110614	* Positive lock washer for No. 127354 ($\frac{13}{32}$ in. by $\frac{23}{32}$ in. by $\frac{3}{32}$ in. thick).....
133472	Washer for rod ($\frac{21}{64}$ in. by $\frac{5}{8}$ in. by 0.034 in. sherardized).....
	* The Types DI-160 and DI-166, Forms A and B interlocks were originally fitted with contact disk rods threaded 14-24 and insulating cross heads having slots for locking nuts. These interlocks as now manufactured have rods threaded $\frac{5}{16}$ in.-18 which necessitate larger adjusting nuts and a cross head with larger rod hole. Therefore, customers having the interlocks with rods threaded 14-24, and desiring rods or cross heads must order both.

GENERAL ELECTRIC COMPANY

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GENERAL ELECTRIC COMPANY

Parts of Contactors and Interlocks 4970-59

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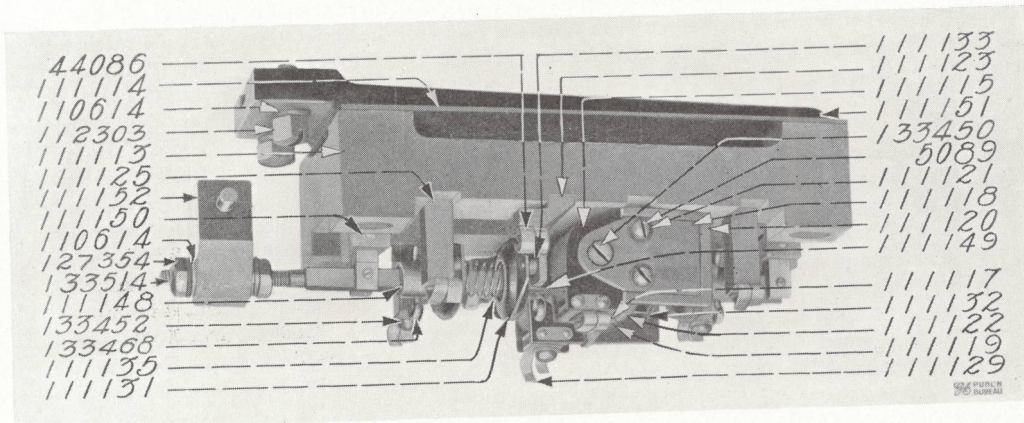
PARTS OF TYPE DI-160 AND TYPE DI-166 INTERLOCKS

Cat. No.	Description
111131	CONTACT DISK, complete, with contact tips for Type DI-160, Forms G1, G2, G3, G4, G5, G7, G18, G20, G24, G25, G27 and Type DI-166, Forms E1, E2, E4, E5, E7, E18, E20, E24, E25, E27 interlocks and contact disk with small contact tips, for Type DI-160, Form H5 and Type DI-166, Form F5 interlocks
111132	Contact disk, complete, with large contact tips, for Type DI-160, Form H5 and Type DI-166 Form F5 interlocks
111133	Contact tip for No. 111131.....
111134	Contact tip for No. 111132.....
111135	Pressure spring for contact disks.....
133491	Rod (stamped G-1, sherardized) for contact disk for Type DI-160, Form G1 interlock
133492	Rod (stamped G-2, sherardized) for contact disk for Type DI-160, Form G2 interlock
133493	Rod (stamped G-3, sherardized) for contact disks for Type DI-160, Form G3 interlock.....
133494	Rod (stamped G-4, sherardized) for contact disks for Type DI-160, Form G4 interlock.....
133495	Rod (stamped G-5, sherardized) for contact disks for Type DI-160, Form G5 interlock.....
133496	Rod (stamped G-7, sherardized) for contact disks for Type DI-160, Form G7 interlock.....
133497	Rod (stamped G-18, sherardized) for contact disks for Type DI-160, Form G18 interlock.....
133498	Rod (stamped G-20, sherardized) for contact disks for Type DI-160, Form G20 interlock.....
133499	Rod (stamped G-24, sherardized) for contact disks for Type DI-160, Form G24 interlock.....
133500	Rod (stamped G-25, sherardized) for contact disks for Type DI-160, Form G25 interlock.....
133501	Rod (stamped G-27, sherardized) for contact disks for Type DI-160, Form G27 interlock.....
133502	Rod (stamped H-5, sherardized) for contact disks for Type DI-160, Form H5 interlock.....
133503	Rod (stamped E-1, sherardized) for contact disks for Type DI-166, Form E1 interlock.....
133504	Rod (stamped E-2, sherardized) for contact disk for Type DI-166, Form E2 interlock.....
133505	Rod (stamped E-3, sherardized) for contact disks for Type DI-166, Form E3 interlock.....
133506	Rod (stamped E-4, sherardized) for contact disks for Type DI-166, Form E4 interlock.....
133507	Rod (stamped E-5, sherardized) for contact disks for Type DI-166, Form E5 interlock.....
133508	Rod (stamped E-7, sherardized) for contact disks for Type DI-166, Form E7 interlock.....
133509	Rod (stamped E-18, sherardized) for contact disks for Type DI-166, Form E18 interlock.....
133510	Rod (stamped E-20, sherardized) for contact disks for Type DI-166, Form E20 interlock.....
133511	Rod (stamped E-24, sherardized) for contact disks for Type DI-166, Form E24 interlock.....
133512	Rod (stamped E-25, sherardized) for contact disks for Type DI-166, Form E25 interlock.....
133513	Rod (stamped E-27, sherardized) for contact disks for Type DI-166, Form E27 interlock.....
133514	Rod (stamped F-5, sherardized) for contact disks for Type DI-166, Form F5 interlock.....
111148	Brass collar for contact disk rod for Type DI-160, Forms G3, G5, G20, G24, G25, H5 and Type DI-166, Form E3, E5, E20, E24, E25 and F5, and large collar for Type DI-160, Forms G1, G2, G4, G7, G18, G27 and Type DI-166, Forms E1, E2, E4, E7, E18, E27 interlocks.....
46796	Small brass collar for contact disk rod for Type DI-160, Forms G1, G2, G4, G7, G18 and Type DI-166, Forms E1, E2, E4, E7 and E18 interlocks
46795	Small brass collar for contact disk rod for Type DI-160, Form G27 and Type DI-166, Form E27 interlocks
111149	Fiber sleeve for contact disk rod for Forms H5 and F5 interlocks.....
133468	Spring cotter for Nos. 111148, 46795, 111149 ($\frac{1}{8}$ in. by $\frac{3}{4}$ in. sherardized).....
105302	Spring cotter for No. 46796 ($\frac{1}{8}$ in. by 1 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).....
111126	Positive lock washer for No. 133470 ($\frac{7}{32}$ in. by $\frac{13}{32}$ in. by $\frac{3}{64}$ in. thick).....
17399	Washer for No. 133470 ($\frac{15}{64}$ in. by $\frac{7}{16}$ in. by 0.014 in.).....
111152	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, $\frac{19}{32}$ in. across flats, hex. cham., one side, sherardized)
110614	Positive lock washer for No. 127354 ($\frac{11}{32}$ in. by $\frac{33}{32}$ in. by $\frac{3}{32}$ in. thick).....

PARTS OF TYPE DI-160, FORMS G1, G2, G3, G4, G5, G7, G18, G20, G24, G25, G27, H5 AND TYPE DI-166, FORMS E1, E2, E3, E4, E5, E7, E18, E20, E24, E25, E27 AND F5 INTERLOCKS

NOTE.—Type DI-160 interlocks are for use with Type DB-160, Form C contactors.
Type DI-166 interlocks are for use with Type DB-166, Forms C and D contactors.

Cat. No.	Description
111113	INTERLOCK FRAME
111151	Supporting bracket for interlock
112303	Screw fastening No. 111151 to contactor ($\frac{5}{16}$ in.—18, 1 in. hex. h. slot., sherardized, cap screw)
110614	Positive lock washer for No. 112303 ($\frac{13}{32}$ in. by $\frac{23}{32}$ in. by $\frac{3}{32}$ in. thick)
111114	Insulation plate between interlock frame and supporting bracket (14-24, 1 in. r.h. sherardized)
128612	Screw fastening interlock frame to supporting bracket (14-24, 1 in. r.h. sherardized)
110624	Positive lock washer for No. 128612 ($\frac{9}{32}$ in. by $\frac{1}{16}$ in. by $\frac{5}{64}$ in. thick)
110789	Washer for No. 128612 ($\frac{17}{32}$ in. by $\frac{1}{2}$ in. by 0.014 in.)
111115	BLOWOUT COIL, complete, for Type DI-160, Form H5 and Type DI-166, Form F5 interlocks



DI-166-F-5 INTERLOCK

111117	Inside pole piece with pins, for blowout coil
111118	Outside pole piece for blowout coil
111119	Barrier between inside pole piece and contact post
111120	Barrier between outside pole piece and contact post
133450	Screw fastening pole pieces to blowout coil core (8-32, $\frac{1}{4}$ in. f.h. sherardized)
5089	Screw fastening Nos. 111118, 111120 to contact post (8-32, $\frac{1}{2}$ in. r.h. brass)
111121	Positive lock washer for No. 5089 ($\frac{11}{32}$ in. by $\frac{23}{32}$ in. by $\frac{3}{64}$ in. thick)
111122	Contact post for blowout coil for Type DI-160, Form H5 and Type DI-166, Form F5 interlocks
111123	Inside contact post (right-hand) for Type DI-160, Form H5 and Type DI-166, Form F5 interlocks
111124	Inside contact post (left-hand) for Type DI-160, Form H5 and Type DI-166, Form F5 interlocks
111125	Contact post for Type DI-160, Forms G1, G2, G3, G4, G5, G7, G18, G20, G24, G25, G27 and Type DI-166, Forms E1, E2, E3, E4, E5, E7, E18, E20, E24, E25 and E27 interlocks and outside contact post for Type DI-160, Form H5 and Type DI-166, Form F5 interlocks
17398	Screw fastening No. 111122 in position (12-24, $\frac{3}{4}$ in. r.h. brass)
133451	Screw fastening Nos. 111123, 111124, 111125 in position (12-24, $\frac{3}{4}$ in. r.h. sherardized)
111126	Positive lock washer for Nos. 17398, 133451 ($\frac{15}{32}$ in. by $\frac{1}{16}$ in. by 0.014 in.)
17399	Washer for Nos. 17398, 133451 ($\frac{15}{32}$ in. by $\frac{1}{16}$ in. by 0.014 in.)
111127	Connection strip for contact posts ($1\frac{1}{8}$ in. between centers of holes)
111128	Connection strip for contact posts ($1\frac{1}{8}$ in. between centers of holes)
44086	Copper terminal (right-hand) for contact posts and blowout coils
111129	Copper terminal (left-hand) for contact posts and blowout coils
133452	Screw fastening terminals in position (10-32, $\frac{1}{4}$ in. r.h. sherardized)
111130	Positive lock washer for No. 133452 ($\frac{3}{16}$ in. by $\frac{3}{8}$ in. by $\frac{3}{64}$ in. thick)

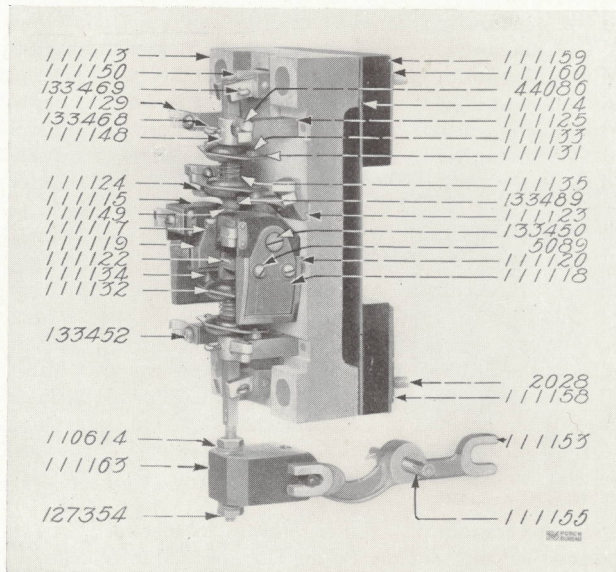
4970-54 *Parts of Contactors and Interlocks*

Cat. No.	Description
44086	Copper terminal (right-hand) for contact posts and blowout coils.
111129	Copper terminal (left-hand) for contact posts and blowout coils.
133452	Screw fastening terminals in position (10-32, $\frac{1}{4}$ in. r.h. sherardized).....
111130	Positive lock washer for No. 133452 ($\frac{3}{16}$ in. by $\frac{3}{8}$ in. by $\frac{3}{64}$ in. thick).....
111131	CONTACT DISK, complete, with contact tips for Forms C1, C2, C3, C4, C5, C7, C18, C20, C24, C25, C27, C28 and C29 interlocks and contact disk with small contact tips for Forms D5 and D30 interlocks.
111132	Contact disk, complete, with large contact tips for Forms D5 and D30 interlocks.....
111133	Contact tip for No. 111131.....
111134	Contact tip for No. 111132.....
111135	Pressure spring for contact disks.....
133476	Rod (stamped C-1, sherardized) for contact disk for Form C1 interlock.....
133477	Rod (stamped C-2, sherardized) for contact disk for Form C2 interlock.....
133478	Rod (stamped C-3, sherardized) for contact disks for Form C3 interlock.....
133479	Rod (stamped C-4, sherardized) for contact disks for Form C4 interlock.....
133480	Rod (stamped C-5, sherardized) for contact disks for Form C5 interlock.....
133481	Rod (stamped C-7, sherardized) for contact disks for Form C7 interlock.....
133482	Rod (stamped C-18, sherardized) for contact disks for Form C18 interlock.....
133483	Rod (stamped C-20, sherardized) for contact disks for Form C20 interlock.....
133484	Rod (stamped C-24, sherardized) for contact disks for Form C24 interlock.....
133485	Rod (stamped C-25, sherardized) for contact disks for Form C25 interlock.....
133486	Rod (stamped C-27, sherardized) for contact disks for Form C27 interlock.....
133487	Rod (stamped C-28, sherardized) for contact disks for Form C28 interlock.....
133488	Rod (stamped C-29, sherardized) for contact disks for Form C29 interlock.....
133489	Rod (stamped D-5, sherardized) for contact disks for Form D 5 interlock.....
133490	Rod (stamped D-30, sherardized) for contact disks for Form D30 interlock.....
111148	Brass collar for rod for Forms C3, C5, C20, C24, C25, D5 and D30 and large collar for Forms C1, C2, C4, C7, C18, C27, C28 and C29 interlocks.....
46796	Small brass collar for contact disk rod for Forms C1, C2, C4, C7, C18, C28 and C29 interlocks.....
46795	Small brass collar for contact disk rod for Form C27 interlock.....
111149	Fiber sleeve for contact disk rod for Forms D5 and D30 interlocks.....
133468	Spring cotter for Nos. 111148, 46795, 111149 ($\frac{1}{8}$ in. by $\frac{3}{4}$ in., sherardized).....
105302	Spring cotter for No. 46796 ($\frac{1}{8}$ in. by 1 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).....
111126	Positive lock washer for No. 133470 ($\frac{7}{32}$ in. by $\frac{3}{32}$ in. by $\frac{3}{64}$ in. thick).....
17399	Washer for No. 133470 ($\frac{5}{64}$ in. by $\frac{7}{16}$ in. by 0.014 in.).....
111153	OPERATING LEVER for Type DI-160 interlocks.....
111154	Operating lever for Type DI-166 interlocks.....
111155	Pin for No. 111153 and contactor bracket ($\frac{5}{16}$ in. by $1\frac{1}{8}$ in. Tob. bronze).....
111156	Pin for No. 111154 and contactor bracket ($\frac{5}{16}$ in. by $1\frac{5}{8}$ in.).....
10110	Spring cotter for Nos. 111155, 111156 ($\frac{5}{64}$ in. by $\frac{1}{2}$ in.).....
111163	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, $\frac{1}{32}$ in. across flats hex. cham., one side sherardized).....
110614	Positive lock washer for No. 127354 ($\frac{1}{32}$ in. by $\frac{23}{32}$ in. by $\frac{3}{32}$ in. thick).....

TYPES DI-160 AND DI-166, FORMS C1, C2, C3, C4, C5, C7, C18, C20, C24, C25, C27, C28, C29, D5 AND D30 INTERLOCKS

NOTE.—Type DI-160 interlocks are for use with Type DB-160, Forms A, D and F contactors.
Type DI-166 interlocks are for use with Type DB-166, Forms A and B contactors.

Cat. No.	Description
111113	INTERLOCK FRAME.....
111158	Supporting plate for interlock.....
2028	Screw fastening No. 111158 to contactor (14-24, $\frac{5}{8}$ in. f.h.).....
111159	Insulation block for interlock.....
121815	Screw fastening insulation block to supporting plate (14-24, $\frac{1}{2}$ in. r.h. sherardized).....
110624	Positive lock washer for No. 121815 ($\frac{9}{32}$ in. by $\frac{9}{16}$ in. by $\frac{5}{64}$ in. thick).....
111114	Insulation plate between interlock frame and insulation blocks.....



DI-160-D-5 INTERLOCK

133475	Screw fastening interlock frame to insulation blocks (14-24, $1\frac{1}{8}$ in. r.h. sherardized).....
110624	Positive lock washer for No. 133475 ($\frac{9}{32}$ in. by $\frac{9}{16}$ in. by $\frac{5}{64}$ in. thick).....
110789	Washer for No. 133475 ($\frac{17}{64}$ in. by $\frac{1}{2}$ in. by 0.014 in.).....
111115	BLOWOUT COIL, complete for Forms D5 and D30 interlocks.
111117	Inside pole piece with pins, for blowout coil.....
111118	Outside pole piece for blowout coil.....
111119	Barrier between inside pole piece and contact post.....
111120	Barrier between outside pole piece and contact post.....
133450	Screw fastening pole pieces to blowout coil core (8-32, $\frac{1}{4}$ in. f.h. sherardized).....
5089	Screw fastening Nos. 111118, 111120 to contact post (8-32, $\frac{1}{2}$ in. r.h. brass).....
111121	Positive lock washer for No. 5089 ($\frac{11}{64}$ in. by $\frac{23}{64}$ in. by $\frac{3}{16}$ in. thick).....
111122	Contact post for blowout coil for Forms D5 and D30 interlocks.....
111123	Inside contact post (right-hand) for Forms D5 and D30 interlocks.....
111124	Inside contact post (left-hand) for Forms D5 and D30 interlocks.....
111125	Contact post for Forms C1, C2, C3, C4, C5, C7, C18, C20, C24, C25, C27, C28 and C29 interlocks and outside contact post for Forms D5 and D30 interlocks.....
17398	Screw fastening No. 111122 in position (12-24, $\frac{3}{4}$ in. r.h. brass).....
133451	Screw fastening Nos. 111123, 111124, 111125 in position (12-24, $\frac{3}{4}$ in. r.h. sherardized).....
111126	Positive lock washer for Nos. 17398, 133451 ($\frac{3}{32}$ in. by $\frac{3}{32}$ in. by $\frac{3}{64}$ in. thick).....
17399	Washer for Nos. 17398, 133451 ($\frac{15}{64}$ in. by $\frac{7}{16}$ in. by 0.014 in.).....
111127	Connection strip for contact posts ($1\frac{1}{8}$ in. between centers of holes).....
111128	Connection strip for contact posts ($1\frac{5}{8}$ in. between centers of holes).....