



# RENEWAL PARTS

GEF-4245B  
Supersedes GEF-4245A  
GEF-4245  
GEF-1555  
GEF-3933

## INDUSTRIAL SOLENOIDS

CR9503-206, -207, -208, -209, -210,  
-211, -212, -213, -214, -215

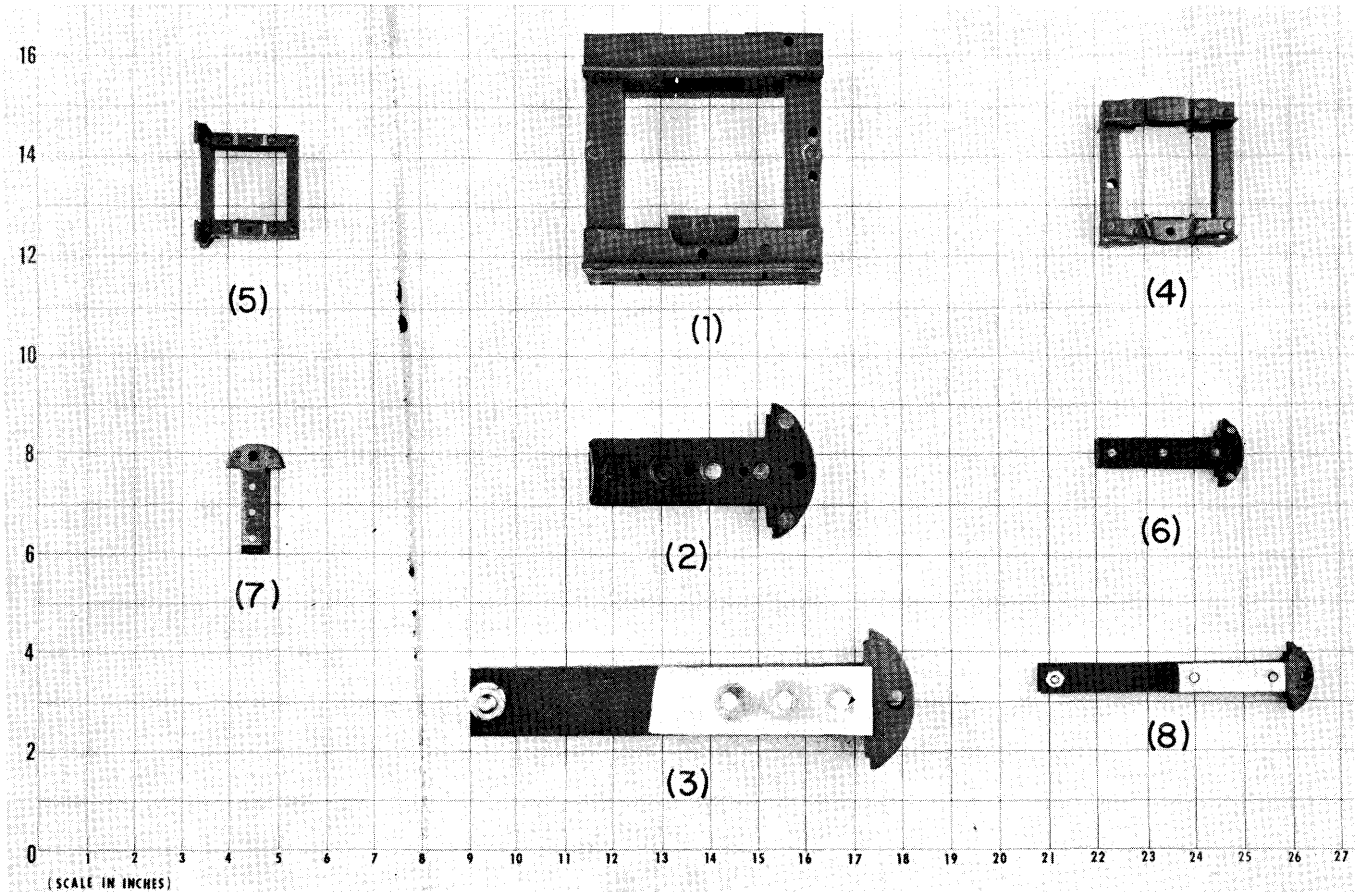


FIG. 1—CR9503 SOLENOID

(TYPICAL PARTS DO NOT NECESSARILY ILLUSTRATE ACTUAL PHYSICAL SIZE)

### PARTS FOR "STAND-BY" SERVICE

The following may be used to aid the User in a "Preventive Maintenance" program.

The parts shown in this bulletin may require occasional replacement due to normal wear. This table gives suggested quantities of these parts the User should stock for "Stand-by" service.

To Use The Table, take the following steps:—

1. Determine the total number of similar devices or forms in your possession or on your order.
2. Determine the number of parts in use on these devices.
3. From the Table, determine the suggested stock requirements. (For Foreign applications, we suggest the quantities be doubled.)

PART DESCRIPTION	Min. Quantity For (1) Device	OR	% of Total Number of Similar Devices
Operating Coil	1		20%
Cutout Switch (Complete)	1		5%
Contacts	1 Each		10%
Contact Unit (Complete)	1		10%
Magnet Frame	1		2%
Plunger	1		5%

This Bulletin does not purport to cover all details or variations in equipment nor to provide for every possible contingency to be met in connection with its maintenance. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's purposes, the matter should be referred to the nearest authorized Renewal Parts Distributor.

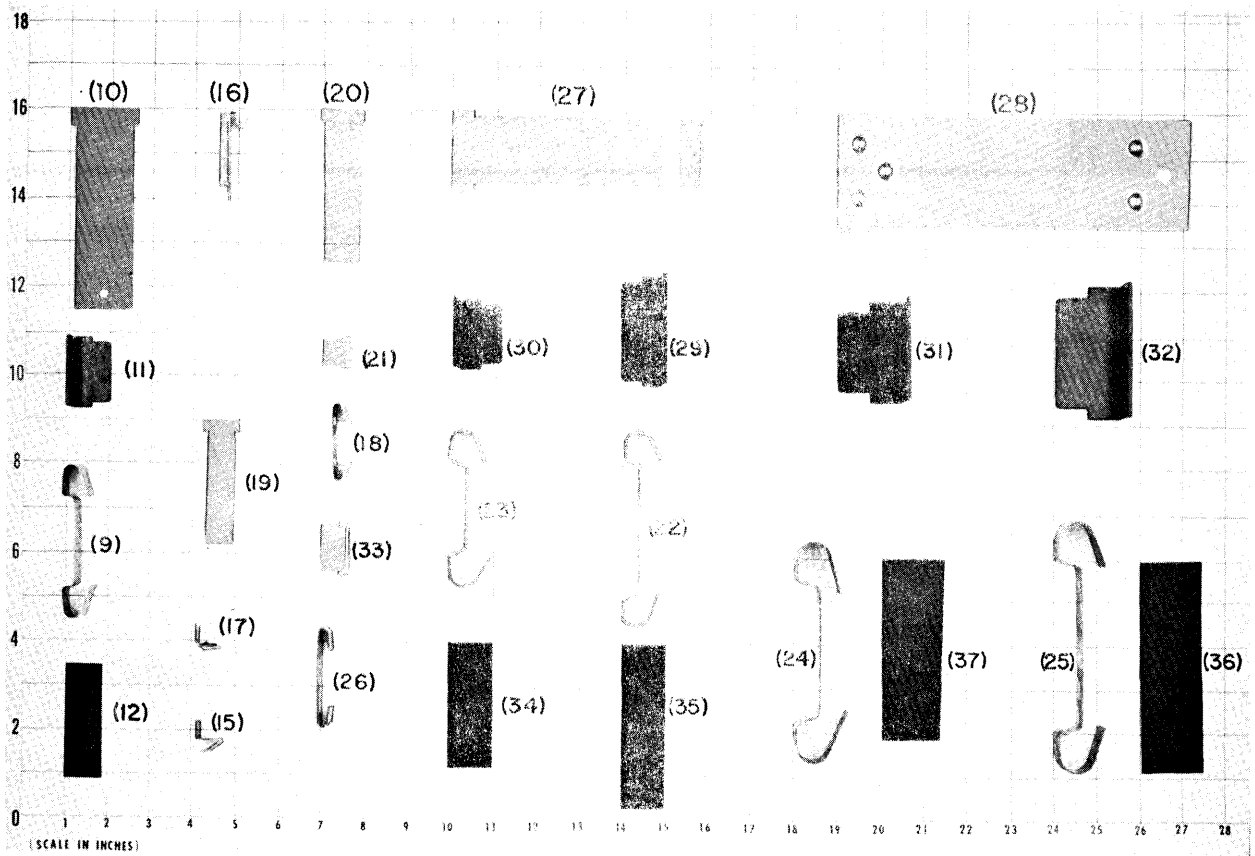


FIG. 2--CR9506 SOLENOID

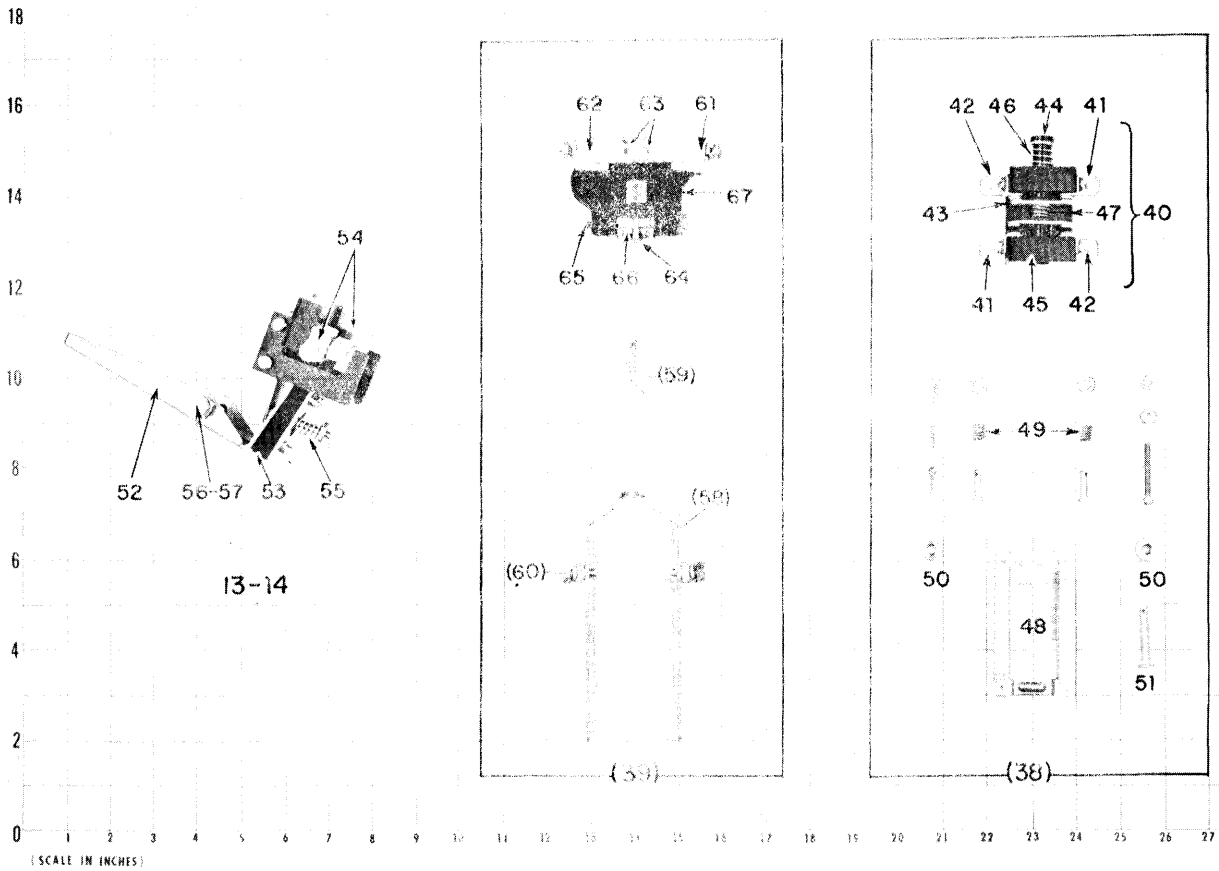


FIG. 3--CUT-OUT SWITCHES

**RENEWAL PARTS CR9503-206A, -206B SOLENOIDS**

Ref.	Recommended for Stock	Description	CUSTOMER has this device → ORDER these parts in quantities shown CATALOG ↓	← CR9503-206A, Cat. 2828021 →										← CR9503-206B, Cat. 4986335 →												
				AB *	AC *	AF *	AG *	AM *	AN *	AP *	AQ *	AR *	AS *	AT *	AU *	AV *	AB *	AC *	AF *	AG *	AM *	AN *	AP *	AR *	AS *	AT *
—	X	Operating coil	See Table	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
1	X	Magnet frame	5197826G1																							
1	X	Magnet frame	3658477G1																							
1	X	Magnet frame	3658477G2																							
1	X	Magnet frame	5197826G5																							
2	X	Laminated plunger	5197827G1																							
2	X	Laminated plunger	5197827G2																							
3	X	Laminated plunger (Incls. guide strips and striking block)	5197828G1																							
9	X	Retaining spring for coil	2457355P1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
9	X	Retaining spring for coil	541A578P1																							
10	X	Guide strip for plunger	2457356P1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
—	X	Cotter pin for guide strip	N503P1740B	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	X	Angle guide for plunger	2434764P1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
12	X	Coil insulation	2434758P1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
13	X	Cutout switch, N.C., complete	2838951G2																							
14	X	Cutout switch, N.O., complete	2838951G4																							

\* Identifies coils and their ratings. See coil table.

**RENEWAL PARTS CR9503-207E, -207G, -207H, -208D, -208F, -208J, -209C, -209D, -209M, -210C SOLENOIDS**

Ref.	Recommended for Stock	Description	CUSTOMER has this device → ORDER these parts in quantities shown CATALOG ↓	← CR9503-207E, Cat. 4382675AB * CR9503-207G, Cat. 4382678AB * CR9503-207H, Cat. 2241971AB * CR9503-208D, Cat. 4382679AC * CR9503-208F, Cat. 4382679AC * CR9503-208J, Cat. 5726693AB * CR9503-209C, Cat. 2233923AB * CR9503-209C, Cat. 2233923AC * CR9503-209C, Cat. 2233923AH * CR9503-209C, Cat. 2233923AN * CR9503-209D, Cat. 2233923AO * CR9503-209D, Cat. 4988879AB * CR9503-209M, Cat. 4988879AE * CR9503-209M, Cat. 8668862AB * CR9503-210C, Cat. 8668862AF * CR9503-210C, Cat. 4986334AB * CR9503-210C, Cat. 4986334AC * CR9503-210C, Cat. 4986334AD →																					
				B	B	B	C	C	C	D	D	D	D	D	D	D	E	E	F	F	F	F			
—	X	Operating coil	See Table	B	B	B	C	C	C	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
4	X	Magnet frame	2234099G1																						
4	X	Magnet frame	2234099G2																						
1	X	Magnet frame	2234117G5																						
1	X	Magnet frame	2234118P24																						
5	X	Magnet frame	2242878P2																						
5	X	Magnet frame	4905058G1	1																					
5	X	Magnet frame	4905058G4																						
5	X	Magnet frame with coil retainer and guide	4906422G3			1																			
5	X	Magnet frame	4905062C1				1																		
5	X	Magnet frame	5752481G2					1																	
6	X	Laminated plunger, pull	2234101G1																						
6	X	Laminated plunger, pull	2234101G2																						
2	X	Laminated plunger, pull	2234116G4																						
3	X	Laminated plunger, push (Incls. guides, spacers and hardware)	2234119G6																						
7	X	Laminated plunger, pull	2811147G1	1	1																				
7	X	Laminated plunger, pull	2811147G2																						
8	X	Laminated plunger, push (Incls. guides, spacers and hardware)	2831824G5																						
7	X	Laminated plunger, pull	3869031G1																						
7	X	Laminated plunger, pull	6963886G2				1	1	1																
8	X	Laminated plunger, push (Incls. guides)	9605562G2																						
15	X	Coil retainer and guide	2236258P1																						
16	X	Coil retainer and guide (Also included in 4906422G3)	2236575P1	2	2	2	2																		
—	X	Coil retainer, bottom	5353226P1																						
17	X	Coil retainer and guide, top	5353227P1																						
18	X	Coil retainer	5357747P1																						
19	X	Guide for plunger	2246878P4																						
20	X	Guide for plunger	2433013P1																						
20	X	Guide for plunger	2455599P1																						
—	X	Guide for plunger	6953449P1					2																	
21	X	Angle guide for plunger	5357746P1																						
38	X	Cutout switch, N.O.-N.C. (For parts see page 5)	2833232G1																						
38	X	Cutout switch, N.C. (For parts see page 5)	2833232G9																						

\* Identifies coils and their ratings. See coil table.

NOTE 2: Solenoids of recent production do not include the 7-digit catalog number on the nameplate (example cat. 2233923) but are identified as, for example "CR9503-209CAB\_...". Solenoids with this nomenclature are identical with and use the same parts as those shown in the tabulations above.



RENEWAL PARTS CR9503-212B, -213C, -214B, -215C SOLENOIDS (Continued)

Ref.	Recommended for Stock	Description	CUSTOMER has this device → ORDER these parts in quantities shown CATALOG ↓	CR9503-212B, AB *	CR9503-212B, AF *	CR9503-212B, AT *	CR9503-212B, AU *	CR9503-213C, AB *	CR9503-213C, AF *	CR9503-213C, AS *	CR9503-213C, AT *	CR9503-214B, AB *	CR9503-214B, AF *	CR9503-214B, AS *	CR9503-214B, AT *	CR9503-215C, AB *	CR9503-215C, AF *	CR9503-215C, AS *	CR9503-215C, AT *
				2	X	Laminated plunger (pull)	55-501247G2												
3	X	Laminated plunger (push) (incls. guides, spacer and hardware)	55-501246G1	1												1	1		
3	X	Laminated plunger (push) (incls. guides, spacer and hardware)	55-501246G3			1													
3	X	Laminated plunger (push) (incls. guides, spacer and hardware)	55-501246G2					1											
3	X	Laminated plunger (push) (incls. guides, spacer and hardware)	55-501246G4						1										
3	X	Laminated plunger (push) (incls. guides, spacer and hardware)	55-501249G1							1			1						
3	X	Laminated plunger (push) (incls. plunger, spacer and hardware)	55-501249G2														1	1	
22		Coil retainer	2452909P1					2	2	2	2								
23		Coil retainer	2452910P1	2	2	2	2												
24		Coil retainer	2452966P1									2	2	2	2				
27		Coil retainer	2452967P1													2	2	2	2
24		Guide strip	2432397P1	2	2	2		2	2							2	2	2	2
28		Guide strip	2433010P1									2	2						
29		Angle guide	2432398P1					2	2	2	2								
30		Angle guide	2432399P1	2	2	2	2												
31		Angle guide	2433011P1									2	2	2	2				
32		Angle guide	2433012P1													2	2	2	2
34		Coil insulation	2433047P1	2	2	2	2												
35		Coil insulation	2433048P1					2	2	2	2								
36		Coil insulation	2433058P1													2	2	2	2
37		Coil insulation	2433059P1									2	2	2	2				
39	X	Cutout switch, N.C. (For parts, see page 5)	3819725G1		1	1													
39	X	Cutout switch, N.C. (For parts, see page 5)	3819725G2						1	1									
39	X	Cutout switch, N.C. (For parts, see page 5)	3819707G2										1	1					
39	X	Cutout switch, N.C. (For parts, see page 5)	3819707G1														1	1	

\* Identifies coils and their ratings. See coil table.

NOTE 1: The round-seated magnet frame & some forms of plungers for this solenoid are no longer available. To obtain replacements, take the following steps:

- If magnet frame only is required, order the replacement by catalog number from table M giving complete CR identification of the present solenoid. (Example: CR9503-213A -AB201 or CR9503-213A Cat. 2825816AB201)
- If plunger only is required, order the laminated plunger by catalog number as shown in parts tabulation. NOTE: These old design round-seated plungers are available only until present stocks are exhausted.
- If both magnet frame and plunger are required, order replacements by catalog number from Table N giving full CR identification (Example: CR9503-213A -AB201 or CR9503-213A Cat. 2825816AB201). These will provide the new, flat-seat frame and plunger.

NOTE 2: Solenoids of recent production do not include the 7-digit Cat. Number on the nameplate (Example Cat. 2825816) but are identified as, for example "CR9503-213AAB....." Solenoids with this nomenclature are identical with and use the same parts as those shown in the tabulation above.

PARTS FOR CUT-OUT SWITCHES

The complete switch pictured in Fig. 3 will help for parts identification. When in doubt as to exact part always give complete CR rating in your order.

Ref.	Recommended for Stock	Description	CUSTOMER has this device → ORDER these parts in quantities shown CATALOG ↓	2833232G1	2833232G9	2838951G1	2838951G2	2838951G4	2838951G15	3819707G1	3819707G2	3819725G1	3819725G2
				40	X	Contact unit, complete	3845750G7	1					
40	X	Contact unit, complete	3845750G15		1								
41	X	Stationary contact (Upper R.H. and lower L.H.)†	542A987G1	2	1								
42	X	Stationary contact (Upper L.H. and lower R.H.)†	542A987G2	2	1								
43	X	Movable contact†	542A964G3	2	1								
44		Molded plunger†	542A989G1	1	1								
45		Molded plunger guide†	2480066P1	1	1								
46		Spring for plunger†	2416189	1	1								
46		Spring for plunger†	2238080	1	1								
47		Spring for movable contact†	2414612	1	1								
48		Operating lever	3845729G1	1	1								
49		Spring for operating lever	2412699	2	2								
50		Roller for operating lever	2437146	2	2								
51		Pin for roller	2239800	1	1								
52		Operating lever assembly	5379570G2		1								
52		Operating lever assembly	5379570G4			1	1		1				
52		Operating lever assembly	9384505G2										
53	X	Movable contact and support assembly	5905939G1			1	1						
53	X	Movable contact and support assembly	5905939G2										
53	X	Movable contact and support assembly	5905939G3							1			
54	X	Stationary contact	2438686P1			2	2						
54	X	Stationary contact	5951494P1					2					
54	X	Stationary contact	9196398G1							1			
54	X	Stationary contact	9196398G2								1		
55		Spring for movable contact support	2415397			1	1	1	1				
56		Screw for operating lever	6904007P1		2								
56		Screw for operating lever	6904008P1			2	2						
57		Pivot pin for operating lever	9098551P1						1				
58		Operating lever	544A571P1							1			
58		Operating lever	544A569P1								1		
59		Spring for operating lever	2412999								1		
60		Pivot screw for operating lever	2438160P1								2		
61	X	Stationary contact	2438159P1								2		
62	X	Movable contact	2438161P1								1		
63		Spring for movable contact	2412987								2		
64		Movable contact support assembly, complete	3846776G1								1		

\* Base not offered separately. Use complete contact unit.  
† Also included in complete contact unit.

(Continued on Page 6)

PARTS FOR CUT-OUT SWITCHES (Continued)

Ref.	Recommended for Stock	Description	CUSTOMER has this device →  ORDER these parts in quantities shown CATALOG ↓	283323G1	283323G9	2838951G1	2838951G2	2838951G4	2838951G15	3819707G1	3819707G2	3819725G1	3819725G2																						
														65		Pivot pin for movable contact support assembly	5 1A542P7																		
66		Torsion spring for pivot pin	2 .12926																																
67		Molded base for stationary contacts	544A624P1																																
58		Operating lever	5721134G2																																
59		Operating lever	5721134G1																																
60		Spring for operating lever	2288773P1																																
61	X	Pivot screw for operating lever	6904008P1																																
62	X	Stationary contact	2438686P1																																
63		Movable contact	2438687P2																																
64		Spring for movable contact	2412982																																
65		Movable contact support assembly, complete	3847733G1																																
66		Pivot pin for movable contact support assembly	1473660P1																																
67		Torsion spring for pivot pin	2412983P1																																
		Molded base for stationary contact	2438683P1																																

\* Base not offered separately. Use complete contact unit.  
† Also included in complete contact unit.

IMPORTANT NOTE

In the following Tables reference is made to "Top" and "Bottom" coils. The "Bottom" coil is always the one nearest the head of the plunger. The "Top" coil is always the one furthest from the head of the plunger.



TABLE A  
OPERATING COILS

Note: The last numeric digits in the CR or DL designation identify the operating coils. Examples: CR9503-206BAB201 or CR9503-206B-DL4986335AB201 use one (1) each of the Top Coil Cat. 3022081 and Bottom Coil Cat. 3022082.

A.C. COILS

Suffix	Leads or Terms.	Top Coil Cat. No.	Bottom Coil Cat. No.	Volts	Cycles	Suffix	Leads or Terms.	Top Coil Cat. No.	Bottom Coil Cat. No.	Volts	Cycles
201	T	3022081	3022082	220	60	286 <sup>Δ</sup>	L	3198640	3198641	440	50/60
202	T	3022145	3022146	110	60	287 <sup>Δ</sup>	L	3198642	3198643	550	50/60
203	T	3022147	3022148	440	60	297 <sup>*</sup>	T	3024008	3027729	440	60
204	T	3022149	3022150	550	60	299	L	3199276	3199277	110	60
206	T	3022137	3022138	110	50	328	L	3175390	3199720	220	50
207	T	3022139	3022140	220	50	334	T	3199866	3023835	200	60
208	T	3022141	3240688	440	50	335	T	3022145	3022146	110	60
209	T	3022143	3022144	550	50	348	T	3024089	3024090	480	60
210	T	3199866	3199866	110	25	349	T	3175561	3240081	120	60
211	T	3022134	3022134	220	25	372	T	3024090	3194996	240	50
212	T	3022135	3022135	440	25	396	T	3024119	3022137	230	60
216	T	3022147	3022139	380	50	442	T	3022144	3247697	380	60
220	T	3022081	3022082	220	60	453	T	3024089	3024090	500	60
228	T	3024008	3027729	600	60	457 <sup>*</sup>	L	3246800	3246801	110	60
229	T	3022082	3022078	125	60	459 <sup>*</sup>	L	3246804	3246805	440	60
231	L	3199276	3199277	110	60	462 <sup>*</sup>	L	3247503	3247504	220	60
232	L	3198623	3198624	220	60	463 <sup>*</sup>	L	3247507	3247508	550	60
233	L	3198605	3198606	440	60	465 <sup>*</sup>	L	3247511	3247512	440	50
244	T	3175560	3175561	208	60	468 <sup>*</sup>	L	3246804	3247513	380	50
246 <sup>*</sup>	T	3027729	3027729	220/440	60	525 <sup>*</sup>	L	3249761	3247556	550	50
254	T	3175750	3175751	440	60	532	L	3243176	3243177	110	60
258	T	3024008	3027729	500	50	535	L	3240401	3240402	440	60
263	T	3027730	3027808	240	60	538	L	3198606	3240133	230	50
281	L	3198605	3198606	440	60	545	L	3198605	3198606	480	60
283	L	3198623	3198624	220	60	605	L	3249749	3249750	115	60
285 <sup>Δ</sup>	L	3198638	3198639	220	50/60	606	T	3370553	3370554	120	60

(Other ratings upon request)

\* Non-Standard pull      <sup>Δ</sup> Intermittent duty

D.C. COILS

Suffix	Leads or Terms.	Top Coil Cat. No.	Bottom Coil Cat. No.	Volts	Cycles	Suffix	Leads or Terms.	Top Coil Cat. No.	Bottom Coil Cat. No.	Volts	Cycles
1	L & T	3199878	3022099	125	DC	57	T	3022167	3022167	12	DC
2	L & T	3199700	3022084	250	DC	60	L & T	3199700	3022113	230	DC
11	L & T	3243129	3023835	32	DC	62	L & T	3199878	3022099	115/120	DC
38	T	3022099	3022099	125*	DC	63	L & T	3199700	3022084	230/250	DC
44	L & T	3199700	3022113	230	DC	86	L	3199700	3243683	230	DC

\* 60 OHM 200 WATT series resistor required.

**TABLE B  
OPERATING COILS**

Note: The last numeric digits in the CR or DL designation identify the operating coils. Example: CR9503-207EAB202 or CR9503-207E-DL4382675AB202 use one (1) coil Cat. 22D3G6.

Suffix	Leads or Terms.	Coil Cat. No.	Volts	Cycles	Suffix	Leads or Terms.	Coil Cat. No.	Volts	Cycles
202	T	22D3G6	110	60	288	L	22D3G84	20	60
203	T	22D3G7	220	60	313	T	22D3G118	16	60
204	T	22D3G8	440	60	331*	T	22D3G59	12	25
205	T	22D3G9	550	60	399	L	22D3G172	110	60
207	T	22D3G30	110	50	407	T	22D3G159	16	50
208	T	22D3G31	220	50	420* <sup>Δ</sup>	L	22D3G189	110	60
222	L	22D3G13	110	60	443*	T	22D3G218	70	60
242	L	22D3G2	125	60	448	L	22D3G82	12	60
248	T	22D3G57	12	60	496 <sup>Δ</sup>	L	22D3G260	80	60
256	T	22D3G53	60	60	500	T	22D3G56	24	50
257	L	22D3G58	94	60	502* <sup>Δ</sup>	L	22D3G264	115	60

(Other ratings upon request)

\* Intermittent duty.  
<sup>Δ</sup> Long leads.

**TABLE C  
OPERATING COILS**

Note: The last numeric digits in the CR or DL designation identify the operating coil. Example: CR9503-208DAB202 or CR9503-208D-DL4382679AB202 use one (1) coil Cat. 22D2G21.

Suffix	Leads or Terms.	Coil Cat. No.	Volts	Cycles	Suffix	Leads or Terms.	Coil Cat. No.	Volts	Cycles
202	T	22D2G21	110	60	377	T	22D2G226	120	60
203	T	22D2G22	220	60	385	T	22D2G39	125	60
204	T	22D2G23	440	60	423*	L	22D2G286	110	60
207	T	22D2G39	110	50	449**	L	22D2G324	110	60
208	T	22D2G40	220	50	475 <sup>Δ</sup>	L	22D2G361	115	50/60
217	T	22D2G22	110	25	484	T	22D2G373	115	60
222	L	22D2G26	110	60	509	T	22D2G311	120	50
224	L	22D2G28	440	60	525	T	22D2G111	16	60
247	L	22D2G55	18	60	528 <sup>○</sup>	L	22D2G418	440	60
368	L	22D2G209	110	60	529	T	22D2G420	16	60
374	L	22D2G220	220	60					

(Other ratings upon request)

\* 48" leads.  
 \*\* 18" leads.  
<sup>Δ</sup> Non-standard pull.  
<sup>○</sup> Navy rating.

**TABLE D  
OPERATING COILS**

Note: The last numeric digits in the CR or DL designation identify the operating coil. Example: CR9503-209CAB201 or CR9503-209C-DL2233923A3201 use one (1) coil Cat. 3021145.

Suffix	Leads or Terms.	Coil Cat. No.	Volts	Cycles	Suffix	Leads or Terms.	Coil Cat. No.	Volts	Cycles
1	T	3021150	250	DC	225	T	3021765	550	50
5	T	3021539	125	DC	226	T	3021751	550	60
56	L	3027823	125	DC	237	T	3023819	220	40
57	L	3027824	250	DC	241	T	3023860	500	50
93	T	3194118	110	DC	259	L	3024196	120	60
104	T	3198827	230	DC	271	L	3027820	220	60
107*	T	3199066	230	DC	278	T	3027900	16	60
125	T	3198827	230	DC	289	T	3028009	120	60
131	T	3021539	115/125	DC	449	L	3198600	110	60
132	T	3021150	230/250	DC	450	L	3198601	440	60
146*†	T	3021571	110	DC	455	L	3199043	220	60
201	T	3021145	220	60	457 <sup>Δ</sup>	T	3175699	110	60
202	T	3021571	110	60	483	T	3021704	440	60
203	L	3198600	110	60	489	T	3021571	110	60
204	T	3021704	440	60	490	T	3021145	220	60
207	T	3021707	220	25	529	T	3027959	240	60
208	T	3021729	440	25	536	L	3240795	220	60
212	L	3199043	220	60	542	L	3241258	110	60
213	L	3198601	440	60	573	T	3242586	230	50
218	L	3199363	110	50	615	L	3240076	230	60
222	T	3021762	110	50	622	L	3370529	120	60
223	T	3021763	220	50					

(Other ratings upon request)

\* Non-standard pull.  
 † Requires 200 OHM 60 WATT holding resistor.  
<sup>Δ</sup> Intermittent rating.

**TABLE E  
OPERATING COILS**

Note: The last numeric digits in the CR or DL designation identify the operating coil. Example: CR9503-209MAB202 or CR9503-209M-DL8668862AB202 use one (1) coil Cat. 3245054.

Suffix	Leads or Terms.	Coil Cat. No.	Volts	Cycles
202	L	3245054	110	60
203	L	3245065	220	60
204	T	3246824	110	60
205	L	3246830	110	50
208	L	3247573	120	60
210	L	3247575	440	60
229	L	3247573	115	60
231	L	3245065	190	50
234	T	3249708	220	60
235	T	3249709	440	60
238	T	3249712	550	60
253	L	3249756	110	60

(Other ratings upon request)

**TABLE F  
OPERATING COILS**

Note: The last numeric digits in the CR or DL designation identify the operating coil. Example: CR9503-210CAB201 or CR9503-210C-DL4986334AB201 use one (1) coil Cat. 3194956.

Suffix	Leads or Terms.	Coil Cat. No.	Volts	Cycles
201	T	3194956	110	60
202	T	3194957	220	60
203	T	3194958	440	60
204	T	3194959	550	60
205	T	3194960	600	60
260	T	3199793	120	60
264	T	3194956	110	60
265	T	3194957	220	60
274	L	3240136	110	60
334	T	3247658	115	60

(Other ratings upon request)

**TABLE G  
OPERATING COILS**

Note: The last numeric digits in the CR or DL designation identify the operating coil. Example: CR9503-211EAB201 or CR9503-211E-DL2237032AB201 use one (1) coil Cat. 3028032.

Suffix	Leads or Terms.	Coil Cat. No.	Volts	Cycles	Suffix	Leads or Terms.	Coil Cat. No.	Volts	Cycles
1	T	3021092	250	DC	412	T	3192024	208 MR	60
5*	T	3021508	6	DC	413	T	3192032	110 MR	50
7*	L	3021509	250	DC	419	T	3028047	110 MR	25
10	T	3021768	125	DC	420	T	3028048	220 MR	25
45	L	3023987	24	DC	421	T	3028049	440 MR	25
48	L	3024060	48	DC	424†	T	3028052	440	60
58*	L	3024116	250	DC	426	T	3193307	220 MR	50
62	L	3028075	250	DC	430	T	3193306	600 MR	60
84	T	3024222	440	DC	439	T	3021580	380 MR	50
86	T	3192000	12	DC	443*	T	3193578	440	60
91	T	3192084	24	DC	448	L	3198603	220 MR	60
102	T	3198635	60	DC	449	L	3198604	440 MR	60
108‡	1T	3024151	230	DC	456‡	L	3194193	110	60
110	T	3021938	230	DC	459	L	3198602	110 MR	60
118	T	3021092	250	DC	461	L	3198602	110 MR	60
120	L	3199887	230	DC	462	L	3198603	220 MR	60
129	T	3240126	230	DC	463	L	3198604	440 MR	60
136	L	3240065	115/125	DC	465	T	3175576	400 MR	50
137	L	3028075	230/250	DC	478⊙	L	3199280	220 MR	60
139	T	3021092	230/250	DC	485	T	3175401	220 MR	60
141	T	3240700	110	DC	486	T	3175402	440 MR	60
159	T	3242005	48	DC	490	L	3199280	220 MR	60
181	L	3243725	140	DC	497	T	3175400	110 MR	60
197‡	T	3021523	230	DC	498	T	3193307	220 MR	50
201	T	3028032	220 LW	60	499	T	3021713	120 MR	60
202*	T	3021187	97	60	506	T	3199041	200 MR	50
203	T	3021580	440 LW	60	509	T	3199041	240 MR	60
204	T	3021581	550 LW	60	513	T	3198854	200 MR	60
205	T	3021582	220 LW	25	522	T	3175403	550 MR	60
206	T	3021713	110 LW	60	523	I	3175576	480 MR	60
216	T	3021945	110 LW	40	545	T	3240632	208 MR	60
246	L	3024155	440 LW	25	626††	T	3240165	440	60
258	T	3027834	600 LW	60	677‡	T	3243707	440	60
261	T	3027911	500 LW	60	712	T	3199041	230 LW	60
271	T	3175400	110 MR	60	723	T	3243768	32 LW	40
272	T	3175401	220 MR	60	806	T	3243707	240 MR	50
273	T	3175402	440 MR	60	834⊙	L	3246810	550 MR	60
274	T	3175403	550 MR	60	836⊙	L	3246816	550 MR	50
277*	T	3175528	220	60	838⊙	L	3247532	380 MR	50
294	T	3022172	440 MR	50	839⊙	L	3247533	110 MR	60
299	T	3021722	440 LW	25	840⊙	L	3247534	220 MR	60
302	T	3246842	90/160	DC	841⊙	L	3247570	440 MR	60
305	2L 1T	3247649	12	DC	843⊙	L	3247537	110 MR	50
325*	T	3021768	120	DC	844⊙	L	3247538	110 MR	25
332**	T	3370549	220	DC	845⊙	L	3246890	200 MR	50
336**	T	55-151331	250	DC	846⊙	L	3247532	400 MR	50
408‡	T	3022215	220	60	847⊙	L	3247540	220 MR	50

(Other ratings upon request)

\* Non-standard pull.  
‡ Intermittent duty.

\*\* Fungus proofed.  
LW Low wattage.

MR Maximum rated.  
‡‡ Glass insulated wire, metal spool.

⊙⊙ Special leads.  
⊙ 30° leads.



**TABLE J  
OPERATING COILS**

Note: The last numeric digits in the CR or DL designation identify the operating coils. Example: CR9503-213AAB201 or CR9503-213A-DL2825816AB201 use one (1) each of top coil Cat. 3021135 and bottom coil Cat. 3021094.

Suffix	Leads or Terms.	Top Coil Cat. No. (See Important Note Pg. 6)	Bottom Coil Cat. No. (See Important Note Pg. 6)	Volts	Cycles	Suffix	Leads or Terms.	Top Coil Cat. No. (See Important Note Pg. 6)	Bottom Coil Cat. No. (See Important Note Pg. 6)	Volts	Cycles
1	L T	3021096	3021098	250	DC	224	T	3024192	3024193	380	50
2	L T	3021785	3243127	125	DC	229	T	3021135	3021094	220	60
24	L T	3021096	3199752	230	DC	236	T	3024208	3193506	200	60
45	L	3021785	3240639	125	DC	240N	T	3192010	3192011	440	60
46	L	3240013	3240103	24	DC	241	T	3021135	3193506	208	60
47	L	3370582	3370581	32	DC	247	T	3027702	3021513	240	60
48	L T	3021096	3240673	200	DC	249	L	3198256	3198257	440	60
201	T	3021135	3021094	220	60	254	T	3241229	3199048	120	60
203	T	3021731	3240635	440	60	261*	L	3199738	3199739	440	60
204	T	3021735	3021736	110	60	266	T	3027904	3021789	400	50
205	T	3021737	3024177	550	60	271	L	3199347	3199348	110	60
206	T	3021135	3021513	110	25	272	L	3240091	3240122	550	60
207	T	3241293	3021789	220	25	302	T	3241293	3198677	440	60
208	T	3243127	3021791	440	25	309	T	3027904	3027905	480	60
209	T	3022281	3021794	550	25	310X	T	3021731	3240635	550	60
213	T	3022209	3022210	440	50	340	I	3024192	3024193	460	60
214	T	3022223	3022224	220	50	343W	T	3370538	3370539	440	25
220	T	3194954	3241293	500	50						

(Other ratings upon request) N Navy use only. \* Non-standard pull. X Intermittent duty. W Glass insulated wire.

**TABLE H  
OPERATING COILS**

Note: The last numeric digits in the CR or DL designation identify the operating coils. Example: CR9503-212AAB201 or CR9503-212A-DL2825814AB201 use one (1) each of top coil Cat. 3021093 and bottom coil Cat. 3021142.

Suffix	Leads or Terms.	Top Coil Cat. No. (See Important Note Pg. 6)	Bottom Coil Cat. No. (See Important Note Pg. 6)	Volts	Cycles
1	L T	3021095	3021097	250	DC
3	L T	3021766	3021767	125	DC
44 <sup>Δ</sup>	L T	3370516	3370517	250	DC
201	T	3021093	3021142	220	60
202	T	3021312	3021313	172	60
205	T	3021598	3021599	440	60
206	T	3021739	3021740	550	60
207	T	3021775	3021776	110	60
208	T	3021777	3021777	110	25
209	T	3021780	3021780	220	25
210	T	3021781	3021781	440	25
236	T	3021598	3021599	380	50
265	T	3240426	3199273	240	60
267	L	3240484	3240484	110	25
285	T	3021959	3021985	480	60
291	L	3199044	3199044	125	25
293	T	3021950	3027812	120	60
295 <sup>‡</sup>	T	3021951	3199386	220	60

(Other ratings upon request) <sup>Δ</sup> Class H. <sup>‡</sup> Intermittent duty.

**TABLE K  
OPERATING COILS**

Note: The last numeric digits in the CR or DL designation identify the operating coils. Example: CR9503-214AAB204 or CR. 9503-214A-DL2825818AB204 use one (1) each of top coil Cat. 3021907 and bottom coil Cat. 3021907.

Suffix	Leads or Terms.	Top Coil Cat. No. (See Important Note Pg. 6)	Bottom Coil Cat. No. (See Important Note Pg. 6)	Volts	Cycles
1	L T	3021105	3021106	250	DC
2	L T	3021779	3021782	125	DC
204	T	3021907	3021907	220	25
209	T	3027974	3027975	220	60
210 x	T	3027976	3027977	440	60
211	T	3027978	3027979	550	60
213	T	3175856	3175857	110	60
216	T	3027979	3027977	380	50
217	L	3240007	3240008	440	60
221	T	3198674	3021714	500	50
232	L	3240009	3240010	550	60

(Other ratings upon request) X Max. rated

**TABLE L  
OPERATING COILS**

Note: The last numeric digits in the CR or DL designation identify the operating coils. Example: CR9503-215AAB201 or CR9503-215A-DL2825820AB201 use one (1) each of top coil Cat. 3027998 and bottom coil Cat. 3021107.

Suffix	Leads or Terms.	Top Coil Cat. No. (See Important Note Pg. 6)	Bottom Coil Cat. No. (See Important Note Pg. 6)	Volts	Cycles	Suffix	Leads or Terms.	Top Coil Cat. No. (See Important Note Pg. 6)	Bottom Coil Cat. No. (See Important Note Pg. 6)	Volts	Cycles
1	L T	3021108	3021103	250	DC	212	T	3022197	3022198	110	60
2	L T	3240123	3021774	125	DC	245	T	3027998	3027999	220 MR	60
44	T	3021103	3021103	230/250	DC	246	T	3023801	3027876	440 MR	60
49	L T	3240123	3024225	90	DC	247	T	3175441	3023801	550 MR	60
201	T	3027998	3021107	220	60	248	T	3027879	3027879	220	25
203	T	3021717	3021715	440	60	249	T	3027880	3027880	440	25
204	T	3021914	3021915	550	60	267	L	3198260	3198261	440	60
206	T	3021910	3021910	440	25	268	T	3022184	3198689	110	50
						274	T	3022325	3021909	480	60
						294	T	3023801	3027876	380	50
						299	T	3023801	3027876	440	60

(Other ratings upon request)



GENERAL PURPOSE CONTROL DEPARTMENT

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