

SIEMENS-ALLIS

RENEWAL PARTS ORDERING GUIDE

**TYPES LA-3000A and LA-4000A
AIR CIRCUIT BREAKER
WITH
MANUAL OR ELECTRICAL
OPERATORS**

HOW TO USE YOUR RENEWAL PARTS ORDERING GUIDE

1. Locate the part or parts to be replaced in one of the drawings in this manual.
2. Identify each part by item number, description and part number. Give drawing figure number in which part is shown.
3. Include breaker type, rating and breaker serial number with your order.
4. Place order with your Allis-Chalmers representative.
5. When ordering relays or other electrical parts, include control voltage (see recommended spare parts list for part numbers).

ORDERING EXAMPLE

Type LA-3000A Rated Amps 3000 Serial Number H-86679A-4

Mode of Operation: Electrical Manual

Renewal Parts Ordering Guide 18X5690

Fig.	Item	Description	Part Number	Quantity
1	6	Barrier	71-142-324-001	1
3	24	Spring	71-141-666-001	1
2	28	Base	71-340-240-001	1

If required part is not identified in this manual —

1. Make a copy of the drawing figure in which the part would appear.
2. Indicate with arrows or other markings location of part.
3. Describe or sketch required part.
4. Include breaker type, rating and breaker serial number with your order.
5. Place order with your Allis-Chalmers representative.

TABLE OF CONTENTS

	Figure	Page
Parts Lists — LA3000A & LA4000A		
LA3000A Circuit Breaker & LA4000A	1	
Operator	2	
Shunt Trip Group	3	
Secondary Disconnect Assembly	4	
Motor Group	5	
Close Solenoid Group	6	
Alarm Switch Group, Bell Alarm	7	
Under Voltage Trip Attachment	8	
Auxiliary Switch Group	9	
Static Trip Group	10	
Tripping Current Transformer Group	11	

The following items refer to components shown in Figure 1, LA3000A and LA4000A.

ITEM	DESCRIPTION	PART NUMBER
12	Phase Barrier	18-727-829-001
13	Strap	18-727-834-001
15	Wingnut, .250-20	15-639-101-002
28	Screw, Hex. Soc. Button Hd., .250-20 x .62	15-615-024-001
* 28	Screw, Hex. Wshr. Hd. Thd. Rolling, .25-20 x .62	00-615-663-373
29	Lockwasher, Int. T., .250	00-655-047-140
51	Panel	18-393-688-001
* 51	Panel	18-395-371-001
52	Contact Assy, Upper	18-727-735-501
* 52	Contact Assy, Upper	18-729-735-501
53	Roll Pin, .168 x .75	00-671-177-313
54	Spring	71-141-976-001
55	Roll Pin, .188 x 1.50	00-671-177-321
56	Rivet, Rd. Hd., .188 x .375	00-671-251-085
57	Spring	71-141-173-001
58	Contact Assy.	18-727-833-501
59	Arc Runner	18-727-730-001
* 59	Arc Runner	18-657-840-384
60	Screw	00-613-124-216
61	Lockwasher, #10	00-655-017-022
62	Contact Assy, Lower	18-727-733-501
* 62	Contact Assy, Lower	18-729-734-501
63	Support, Pivot	18-657-822-185
64	Screw, Hex. Wshr. Hd., Thd. Rolling, .25-20 x .62	00-615-663-373
65	Seat, Spring	18-657-822-171
* 65	Seat, Spring	18-657-854-166
66	Contact	18-727-825-002
67	Contact	18-727-825-001
68	Pin	18-727-750-002
* 68	Pin	18-727-750-003
69	Washer, Plain	00-651-027-357
* 69	Spacer	18-727-750-003
70	Contact Assy., Main	18-727-729-501
* 70	Contact Assy., Main	18-727-729-501
71	Spacer, .62 I.D. x .310	18-727-839-003
72	Spacer, .62 I.D. x .180	18-727-659-002
73	Contact Assy., Arcing	18-727-729-502
74	"X" Washer	15-171-399-035
75	Capscre., Hex. Hd., .312-18UNC-2A x 1.00	00-611-315-422
* 75	Capscre., Hex. Hd., .312-18UNC-2A x 1.5	00-611-315-426
76	Lockwasher, Med., .312	00-655-017-030
77	Washer, Plain	00-651-027-170
78	Pin	18-657-822-354
* 78	Pin	18-657-840-385
79	Spacer, .50 I.D. x .180	18-727-838-001
80	Seat, Spring	18-657-822-184
81	Seat, Spring	18-657-822-196
82	Spring	18-657-823-358
83	Spring	71-141-799-001
84	Pushrod	18-393-685-001
85	Capscre., Hex. Soc. Hd., .312-18 x 3.00 (Special)	18-657-822-347
86	Locknut, Hex., .312-18, Stover	15-171-063-006
* 86	Locknut, Hex., .312-18, (Huglock)	00-633-222-105
88	Angle, Glastic	18-657-822-358
* 88	Angle, Glastic	18-657-870-193
89	Angle, L.H.	18-657-822-182
90	Angle, R.H.	18-657-822-181
91	Capscre., Hex. Hd., .312-18UNC-2A x 1.25	00-611-315-424
* 91	Capscre., Hex. Hd., .312-18UNC-2A x 1.75	00-611-315-472

*Applies to LA4000A only.

ITEM	DESCRIPTION	PART NUMBER
92	Brace	18-657-822-359
94	Stud	14-135-915-008
95	Washer, Plain	00-651-017-135
96	Lockwasher, Ext. T., .250	00-655-067-140
97	Nut, Hex. Jam, .250-20	00-631-171-104
100	Washer	71-152-809-024
101	"X" Washer	00-659-055-250
104	"U" Washer	00-659-056-057
111	Ground Bar	18-657-781-278
113	Channel	18-727-844-001
114	Roll Pin, .188 x .75	00-671-177-313
124	Spring Guide	18-657-838-281
125	Spring, Opening	71-142-123-001
126	Washer, .38	00-651-007-214
128	Wheel	18-657-822-355
129	Bearing, .50 I.D. x 1.0	15-171-399-033
130	Washer, .50	00-651-007-285
131	Capscre., Hex. Hd., .500-13 x 2.0	00-611-315-552
134	Nut, Hex., .500-13	00-631-171-108
135	Lockwasher, .50	00-655-017-036
137	Pin, .50 Dia. x 2.04	18-727-832-001
138	Pin, .50 Dia. x 3.00	18-727-832-002
139	Spacer, .50 I.D. x .460	18-727-838-002
144	Roll Pin, .125 x 1.25	00-671-176-195
146	Pawl	18-657-800-346
147	Spring	00-837-455-026
148	Latch Assy.	18-657-765-564
149	Hood	71-142-407-001
150	Spring	71-142-408-001
151	Pin, .31 x 2.12	18-657-769-367
152	"X" Washer	00-659-055-187
153	Trip Flap Assy.	18-727-727-502
155	Spring	72-140-324-001
157	Spring Hanger	18-727-726-001
158	Clip	18-657-768-014
159	Closing Cam	18-724-493-001
160	Capscre., Hex. Hd., .375-16 x 2.50	00-611-315-478
161	Locknut, Stover, .375-16	15-171-063-011
*161	Locknut, Elastic, .375-16	00-633-025-124
162	Spacer	18-657-768-053
163	Link	71-142-071-001
*163	Link	18-657-854-170
164	Bumper	71-142-102-001
*164	Bumper	18-657-854-169
165	Guide Link	18-657-768-024
*165	Guide Link	18-657-854-171
167	Pin, .375 x 2.12	18-724-501-006
168	Bearing, Needle, .375 x .875 x .562	00-813-109-037
169	Close Lever	18-657-768-020
171	Stop Block	18-657-768-039
174	Pin, Shoulder	18-657-769-368
175	Latch	71-142-070-001
176	Spring	18-657-768-033
177	Pin, .375 x 1.62	18-724-501-002
178	Spacer, .375 x .460	18-724-503-001
179	Spacer, .375 x .255	18-657-823-356
180	Spacer, .375 x .190	18-724-503-003
181	Roller	71-141-789-003
182	Toggle Link	18-657-768-025
183	Capscre., Special, .375-24 x 2.44	18-657-822-333
184	Locknut, Stover, .375-24	15-171-063-014
185	"X" Washer	00-659-055-250

*Applies to LA4000A only.

ITEM	DESCRIPTION	PART NUMBER
186	Washer, .375 x .12	18-657-768-374
187	Bracket Assy.	18-726-894-501
188	Trip Bar	18-728-500-037
190	Flag, Discharge	18-724-498-001
191	Decal, Charge Discharge	18-657-800-116
192	Lever, Slide	18-657-822-167
193	Interlock	18-657-823-355
194	Interlock Guide	18-657-823-354
195	Bracket, Actuator	18-657-768-022
197	Reset Assy.	18-657-633-575
198	Reset Lever	18-657-822-166
199	Kick-Off Spring	18-657-768-038
200	Rod End Clip, .250	15-171-399-004
201	Screw, #10-32 x .62	00-615-513-220
202	Lockwasher, #10, Ext. Tooth	00-655-067-100
203	Washer, Rubber	72-140-000-001
204	Charge Cam	72-240-009-001
205	Bearing	15-171-399-030
206	Pin, .375 x 1.16	18-724-501-001
207	Spring	71-141-761-001
208	Cam, Spring Dump	18-657-838-288
210	Screw, Fl. Hd. #10-32 x .62	00-615-345-220
212	Nut, Elastic Stop, #10-32	00-633-050-210
213	Spacer Link	18-657-763-372
214	Retainer	00-673-285-063
215	Pin, .375 x 1.88	18-724-501-004
216	Screw, #10-32 x .50	15-171-399-010
217	Guide	18-657-803-018
218	Capscrew, .312-18 x 1.75	00-615-113-428
219	Locknut, Stover, .312-18	15-171-063-006
220	Shield	18-657-784-013
221	Screw, #10-32 x .75	15-171-399-025
222	"X" Washer	00-659-005-156
223	Cam, Wind & Close	18-724-492-001
224	Gear Assy.	18-724-505-501
225	Gear Pin	18-657-768-371
226	Spacer, .62 x .240	18-727-839-005
227	Back-Up Spring	18-657-765-130
228	Gear Brace	18-724-508-001
229	Switch Lever (Cam)	18-657-768-037
230	Bearing	18-657-768-031
231	Switch Lever (Gear)	18-657-768-032
233	Cam Follower	18-657-768-026
234	Link	18-657-838-283
236	Extension	18-657-838-285
240	Screw, #10-32 x 3.25	00-615-485-242
241	Nut, Elastic Stop, #10-24	00-633-039-110
244	Link	18-657-854-124
246	Guide	18- 57-854-166
247	Spacer	71-915-695-013
248	Nut, Hex, #10-32	00-631-109-210
263	Racking Shaft Assy.	18-727-744-501
*263	Racking Shaft Assy.	18-729-236-501
264	Retainer	18-657-822-197
265	Screw, Hex. Wshr. Hd., Thd. Rolling, .25-20 x .62	00-615-663-373
266	Pin, .375 x 3.75	18-724-501-011
267	Flag, Close	18-728-500-505
269	Decal, Close-Open	71-141-817-001
270	Link	18-657-823-340
271	Rivet, Flat Hd., .188 x .75	18-657-824-128
272	Rocking Block	18-657-823-359

*Applies to LA4000A only.

ITEM	DESCRIPTION	PART NUMBER
273	Racking Screw Assy.	18-727-842-502
274	Barrel Nut	18-657-823-346
275	Collar	72-140-028-002
276	Roll Pin	00-671-185-901
278	Nut, Hex, .500-13	00-631-171-108
279	Pin, .375 x 1.94	18-724-501-012
280	Spacer, .375 x .310	18-724-503-004
281	"L" Link	18-657-823-341
282	Spacer, .375 x .50	18-724-503-004
283	Spacer, .375 x .460	18-724-503-001
284	Spacer, .375 x .190	18-724-503-003
285	"X" Washer	00-659-055-250
286	Bracket, Interlock	18-727-822-001
288	Slide Assy.	18-727-836-501
303	"X" Washer	15-171-399-035
309	Washer, Fibre	71-105-182-016
*309	Washer, Fibre	71-105-182-017
310	Support	71-142-108-001
312	Bracket	18-727-742-001
313	Terminal Block, 7 Point	15-171-051-005
314	Screw, Stand-Off	18-657-465-036
315	Screw, Terminal	18-657-465-035
316	Lockwasher, #6	00-655-047-060
317	Cover	18-657-822-165
318	Marking Strip	15-171-052-004
319	Capacitor	15-171-029-013
320	Terminal	00-851-062-023
325	Label	18-657-822-350
328	Insulation (Actuator Leads)	00-413-615-182
901	Arc Chute	18-393-697-501
*901	Arc Chute	18-393-697-501
902	Primary Disc	18-657-511-578
*902	Primary Disc	18-657-511-579
903	Cover Assem. E.O. M.O.	18-655-008-547 18-655-008-548
904	Sealed Actuator	18-387-921-503
905	Shunt Trip	See Page 11
906	Motor Application	See Page 13
907	Closing Solenoid	See Page 14
908	Handle Assem. M.O.	18-656-781-895
909	Spring Assem.	18-726-870-501
910	Aux. Switch	See Page 18
911	Static Trip	See Page 22

Trip Guard Must
Be Added

*Applies to LA4000A only.

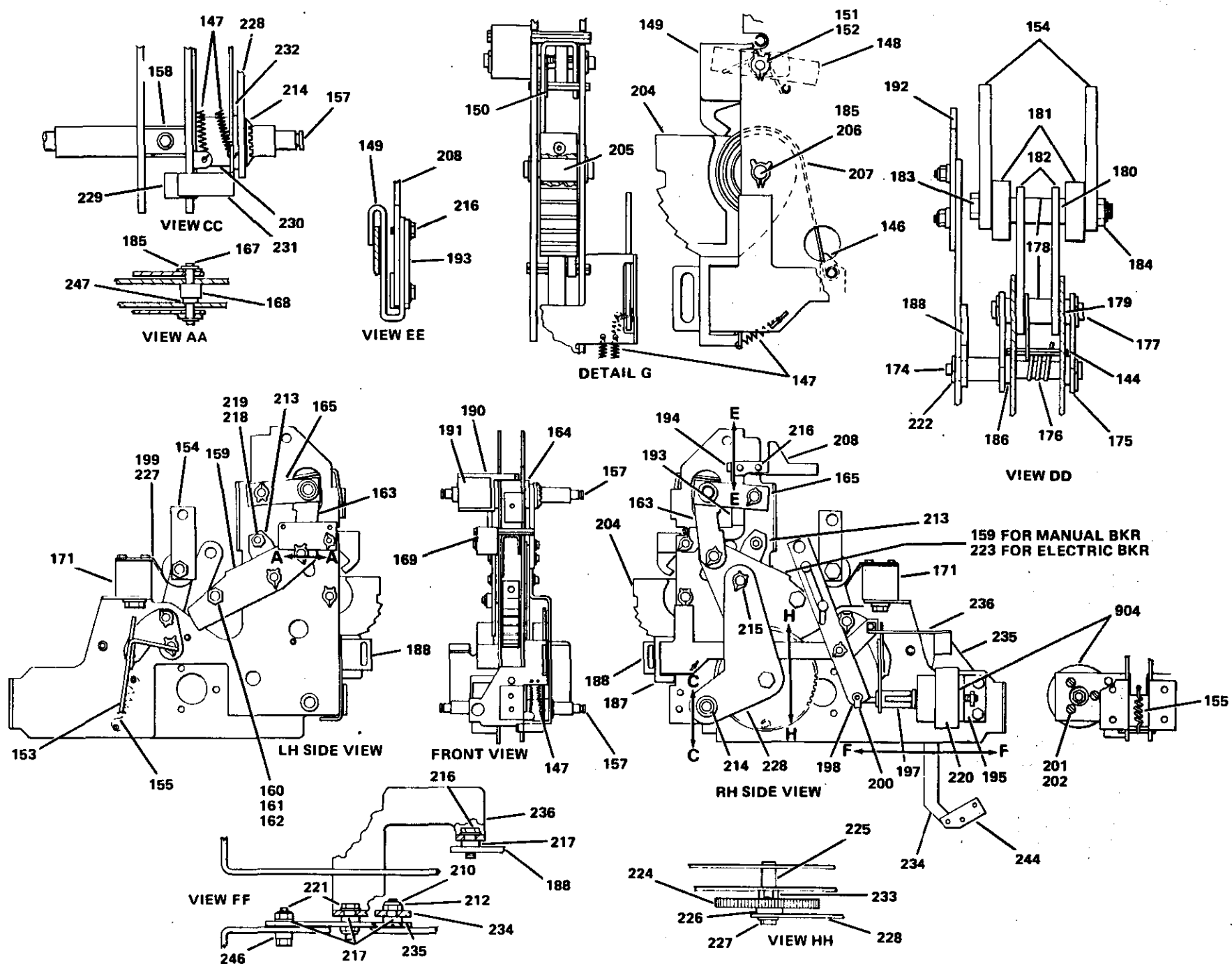


Figure 2. Operator

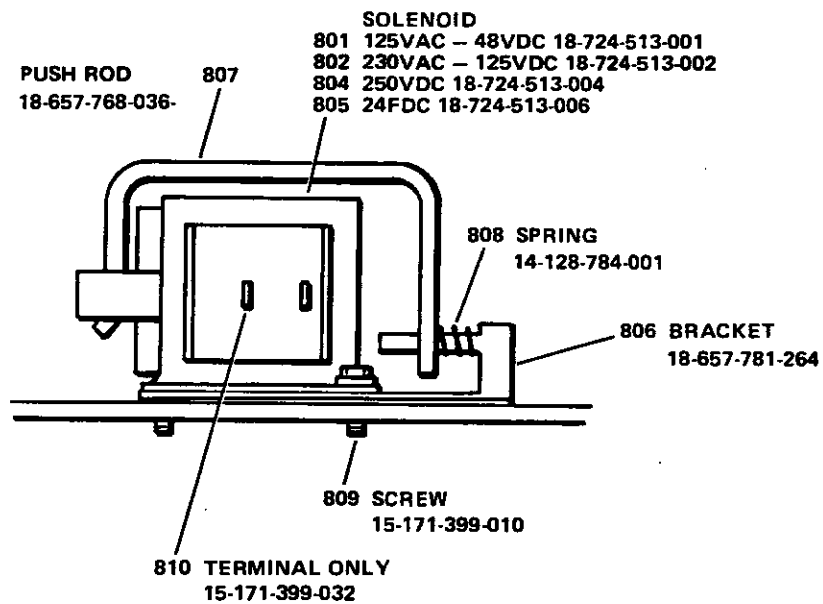


Figure 3. Shunt Trip

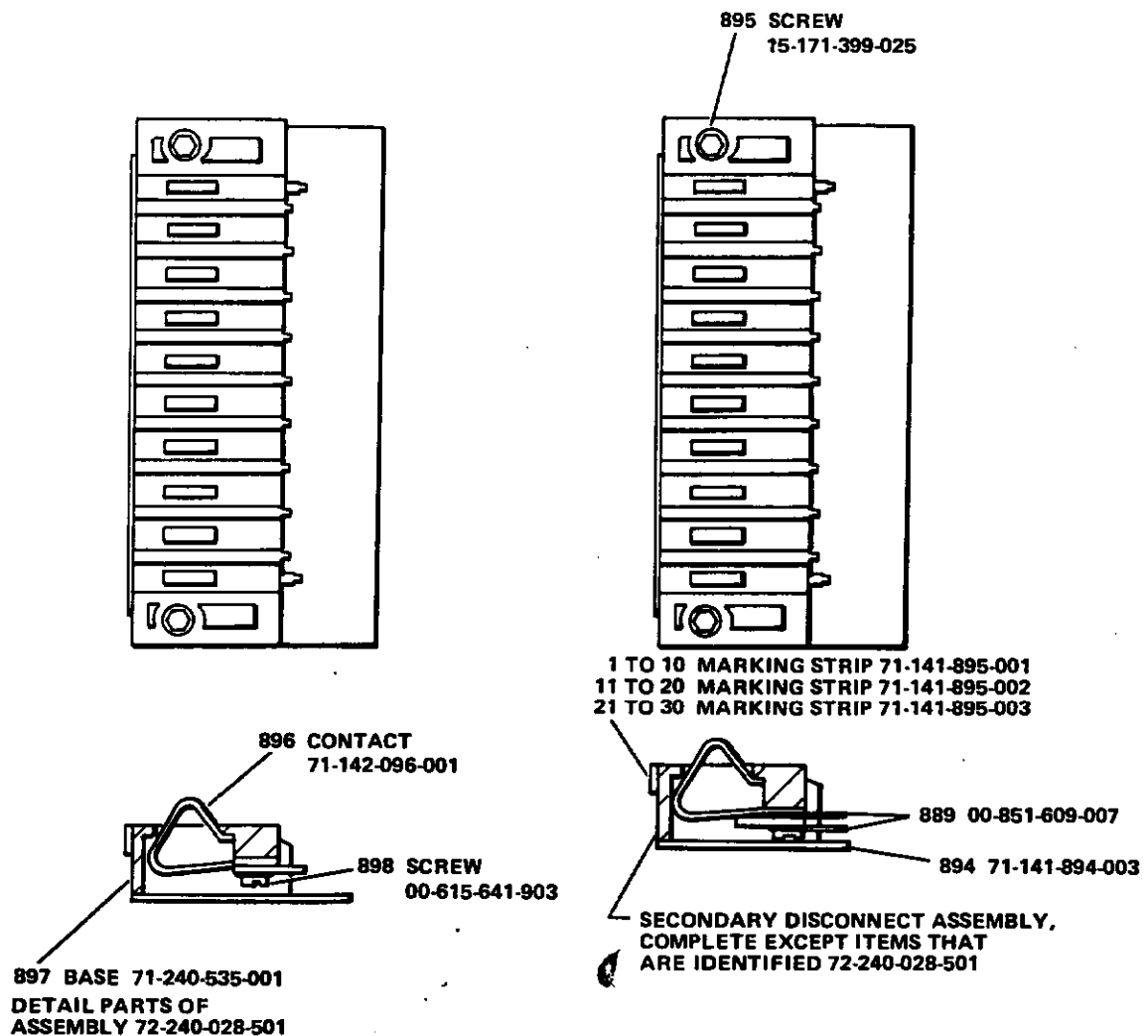
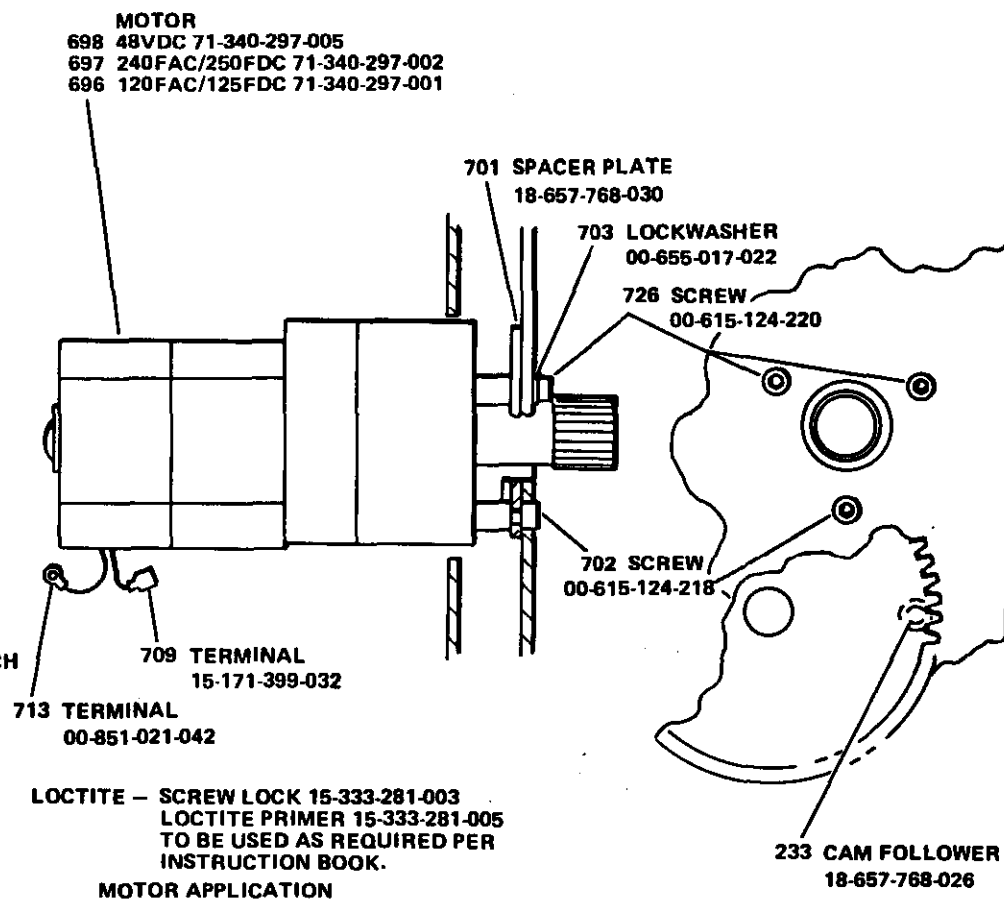
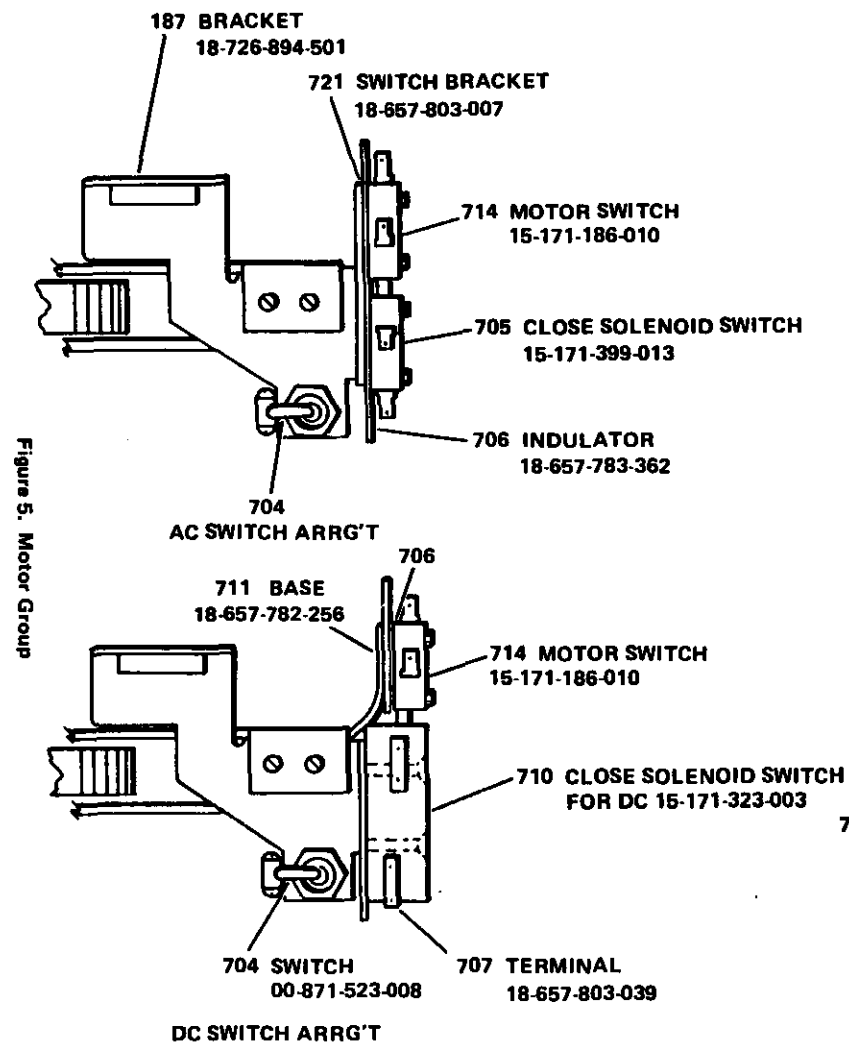


Figure 4. Secondary Disconnect Assembly



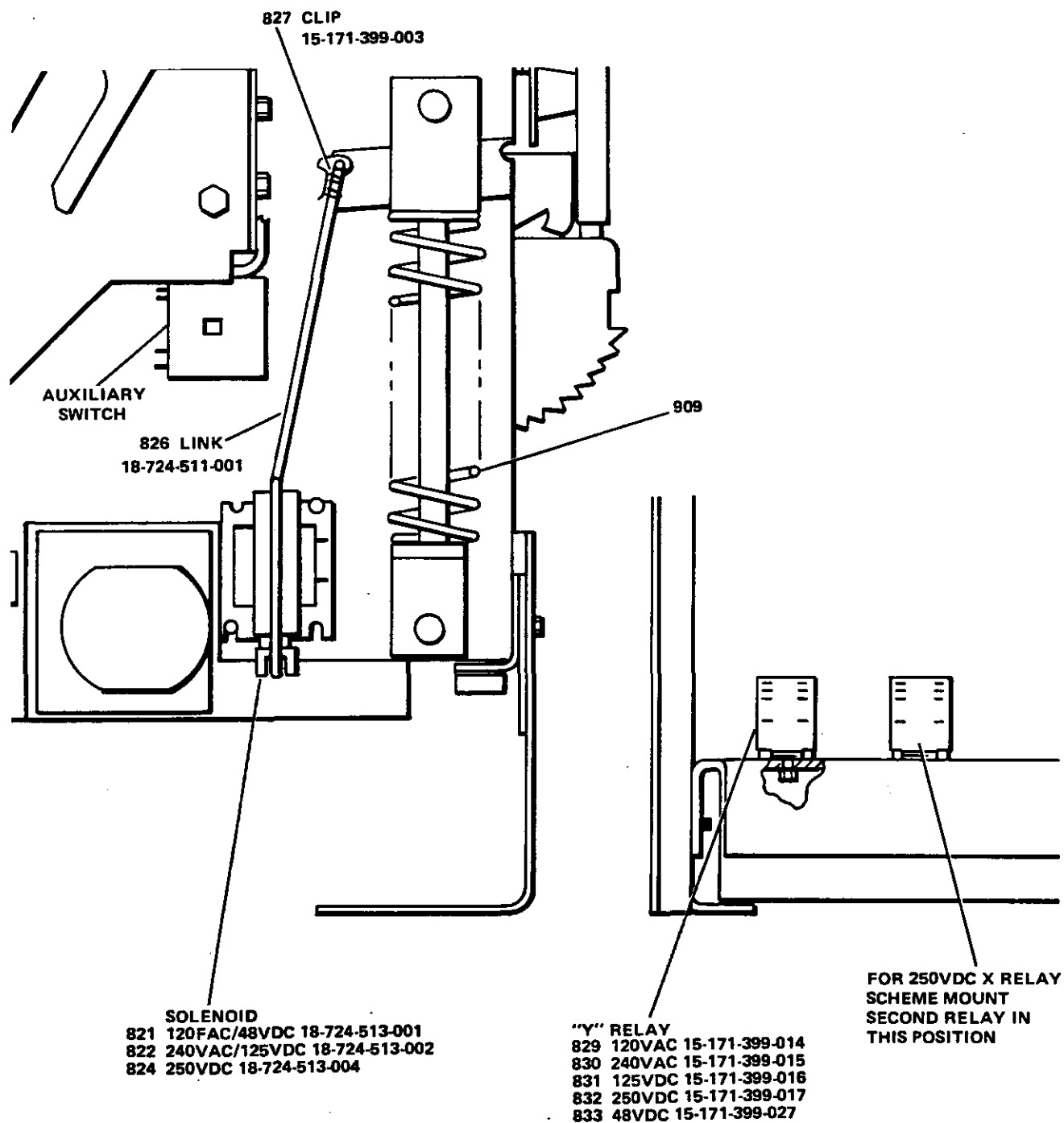


Figure 6. Closing Solenoid and Y Relay

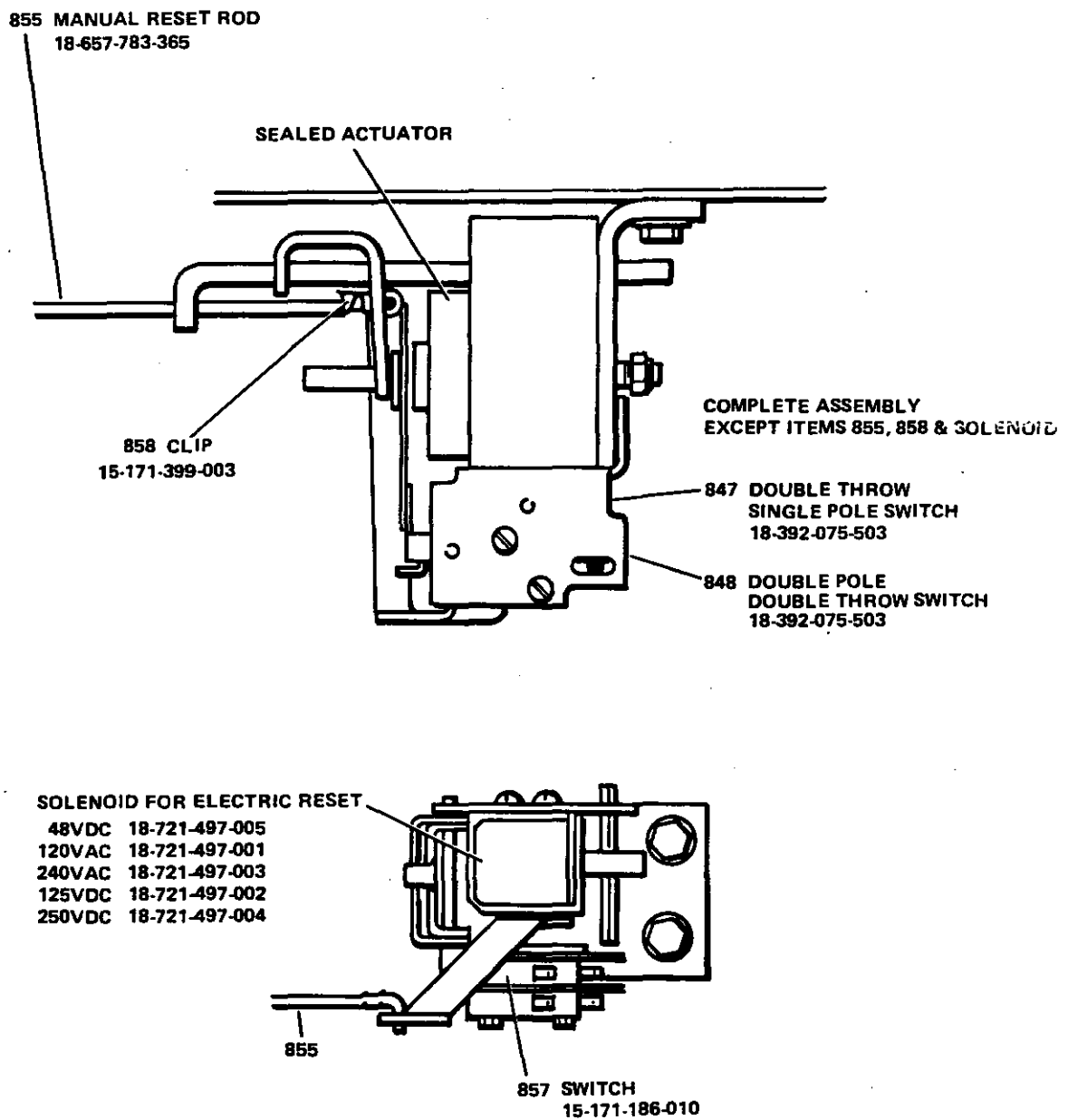


Figure 7. Bell Alarm

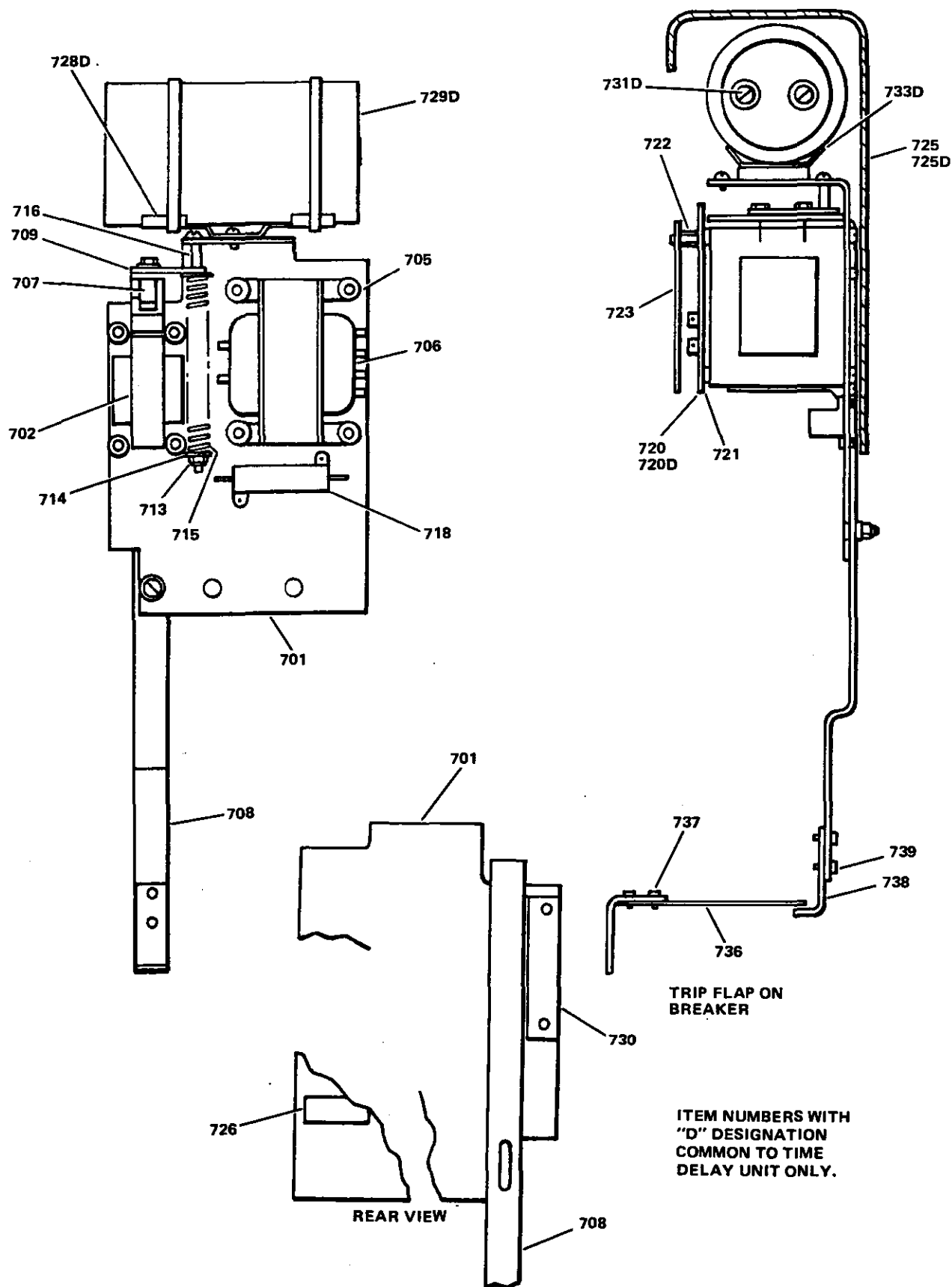


Figure 8. Undervoltage Trip With and Without Time Delay

ITEM	DESCRIPTION	PART NUMBER
701	UV Base	18-395-032-001
703	Solenoid	18-724-513-007
705	Spacer	18-657-838-298
706	Transformer	15-171-194-001
707	Block	18-657-838-297
708	UV Link	18-727-850-001
709	Plate	18-657-838-296
713	EI Stop Nut	00-633-059-210
714	Centering Washer	14-105-442-001
715	Spring	18-657-840-381
716	Screw	15-171-399-038
718	Resistor	15- 71-046-015
720	Circuit Bd.	18-395-370-502
720D	Circuit Bd.	18-395-370-501
721	Indulator Shield	18-657-840-380
722	Stand Off	18-657-465-036
723	Sub-Cover	18-657-838-295
725	Cover	18-395-033-001
725D	Cover	18-395-033-002
726	Name Plate	18-657-840-382
728D	Cap. Bracket	18-729-233-001
729D	Capacitor	15-171-029-016
730	Guide Plate	18-657-853-256
731D	Screws (.25-28) .38	00-615-485-369
733D	Indulator	18-657-854-183
736	Flapper Extension	18-657-854-174
737	Screw #6-32	15-171-074-007
738	Link End	18-657-838-299
739	Screw #10-32 (.5)	15-171-399-010

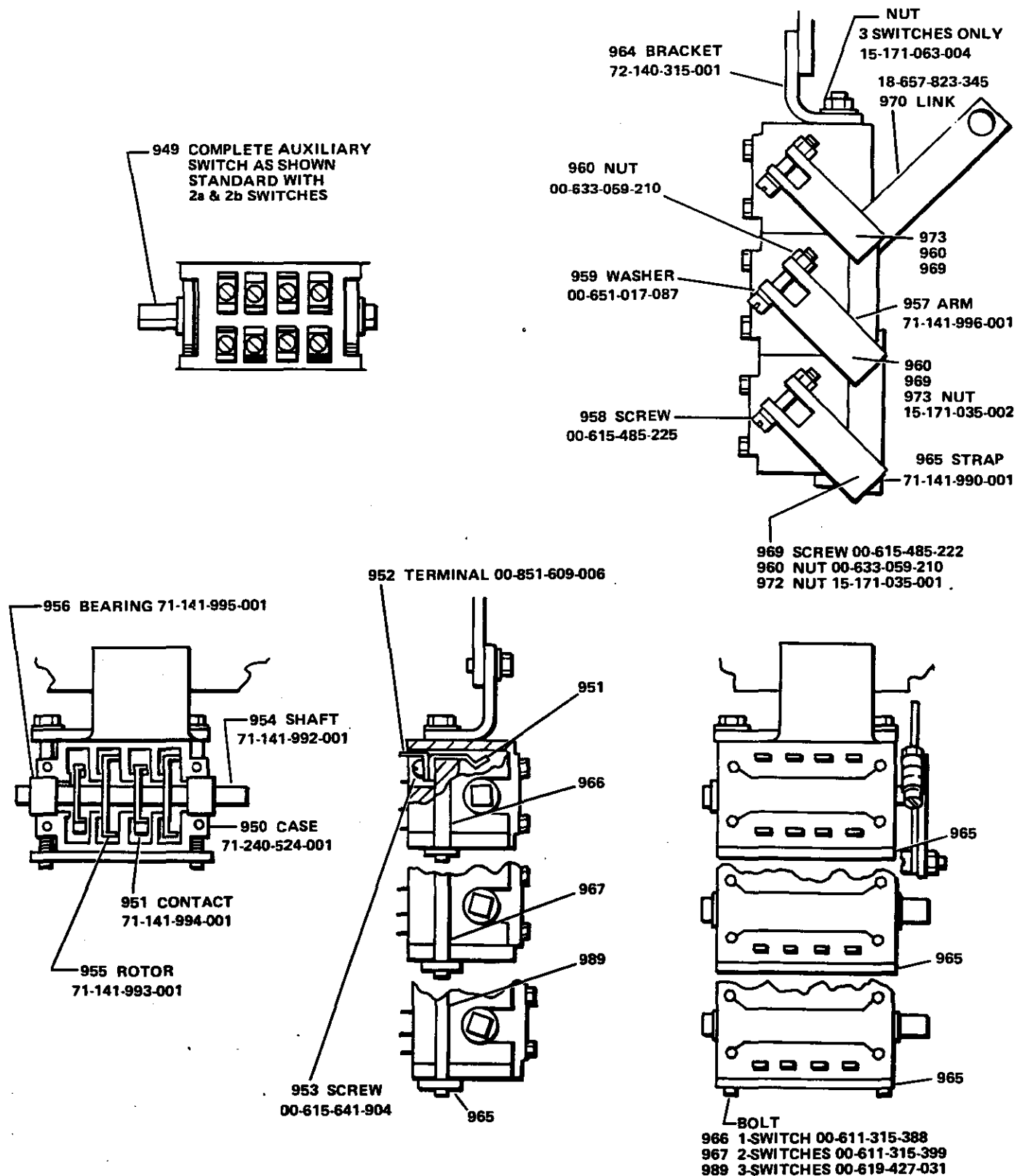


Figure 9. Auxiliary Switch

STATIC TRIP MOUNTING

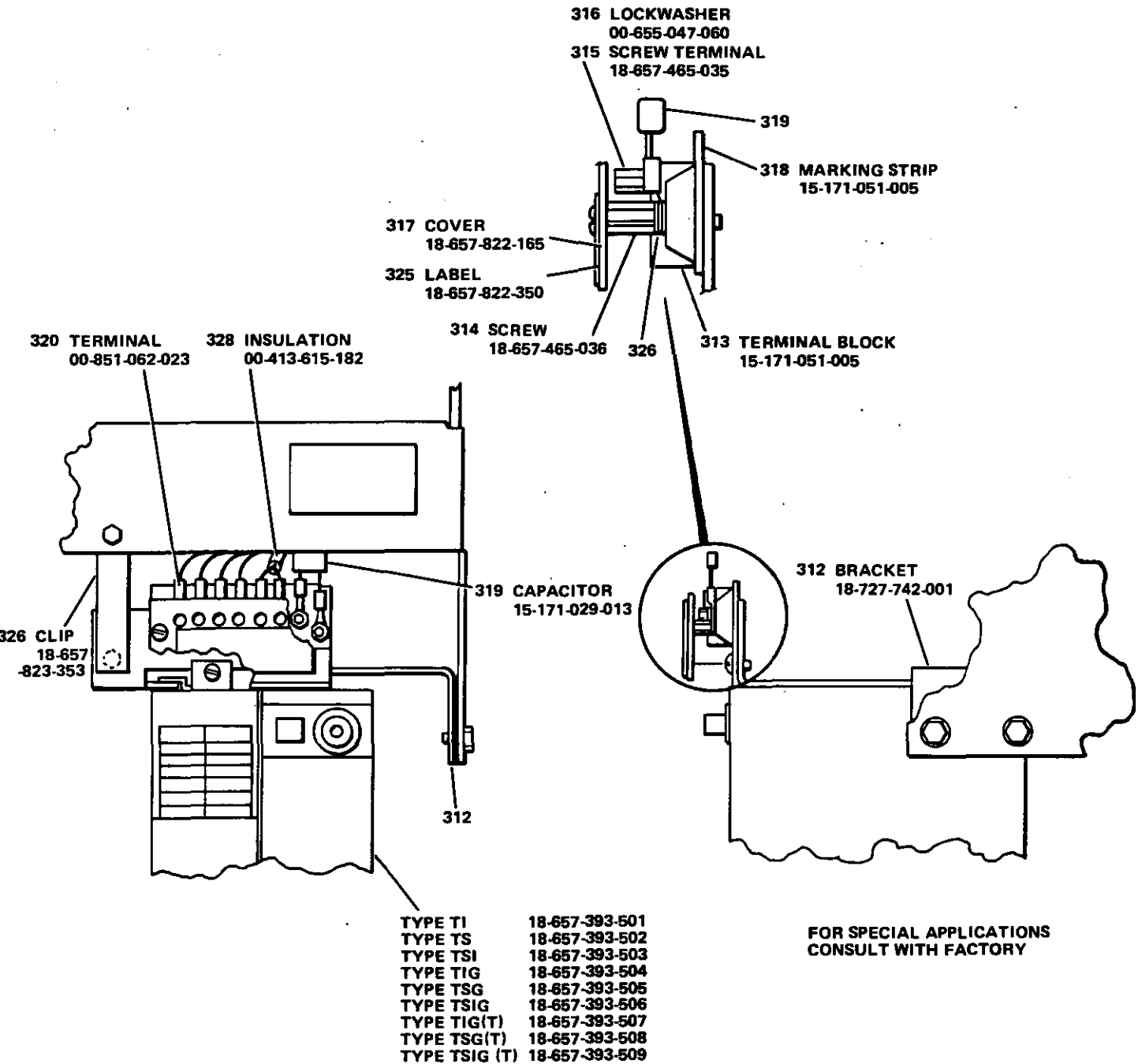


Figure 10. Static Trip

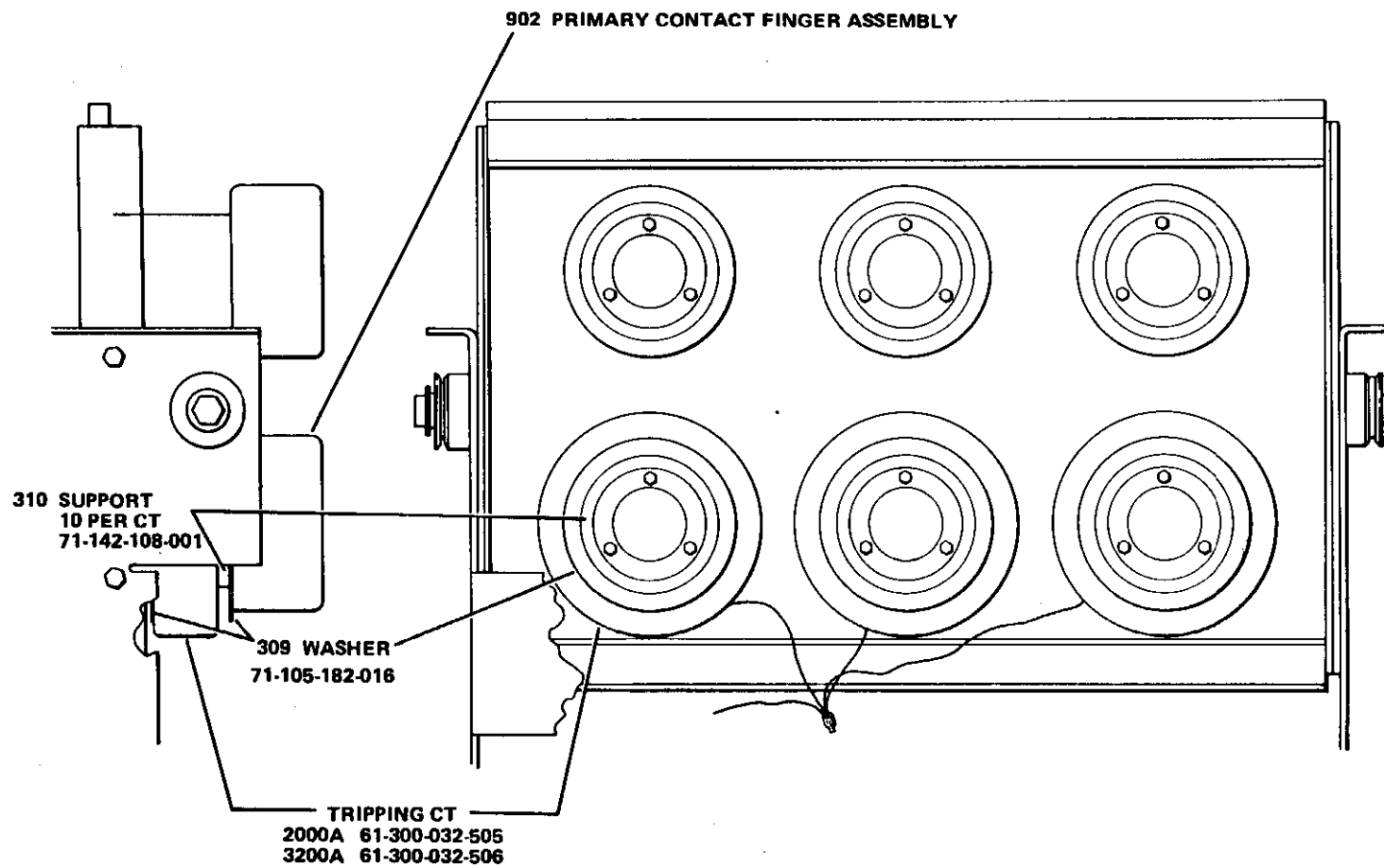


Figure 11. Tripping Transformer

SWITCHGEAR
DIVISION

P.O. Box 14505, West Allis, Wisconsin 53214