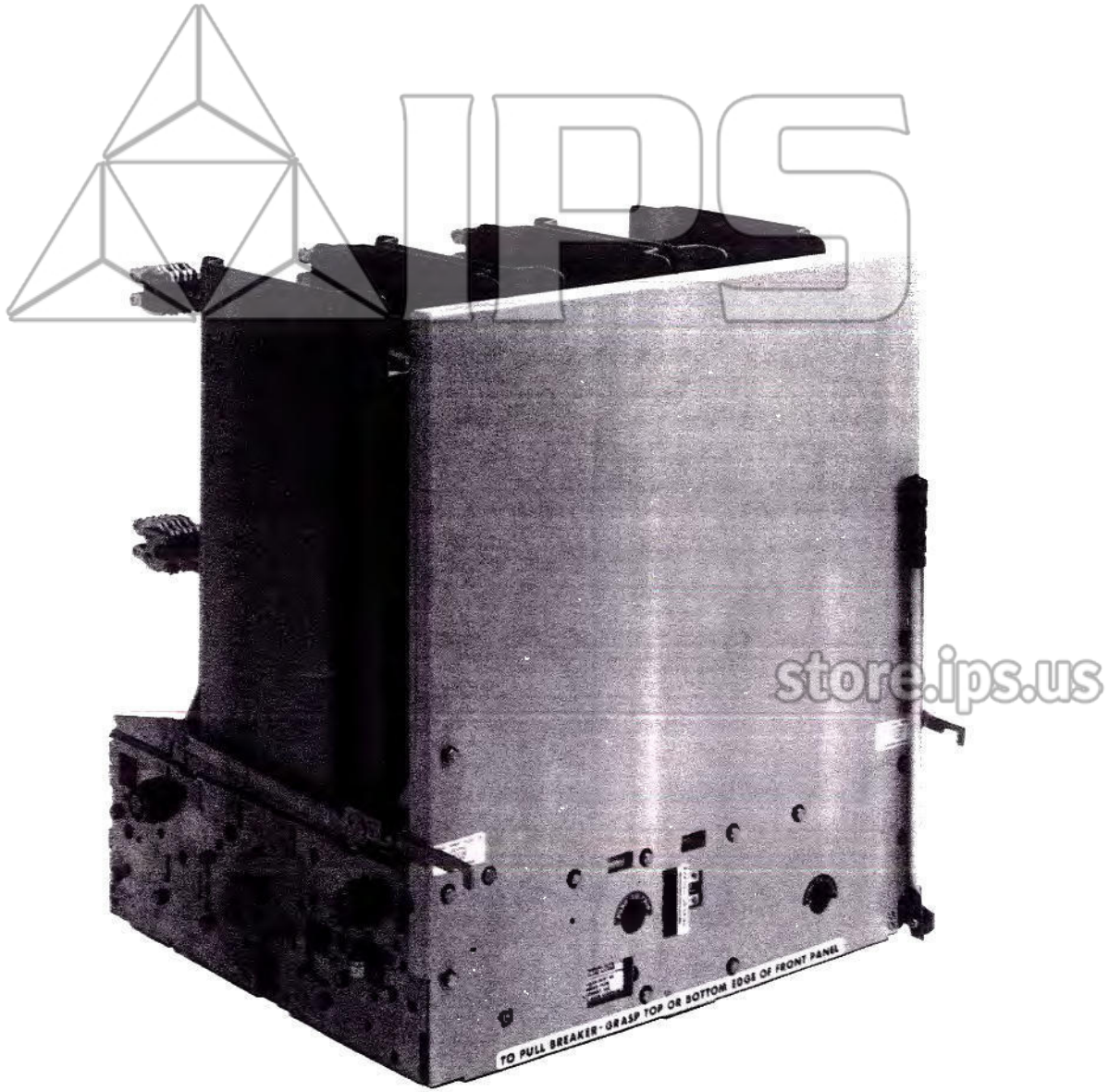
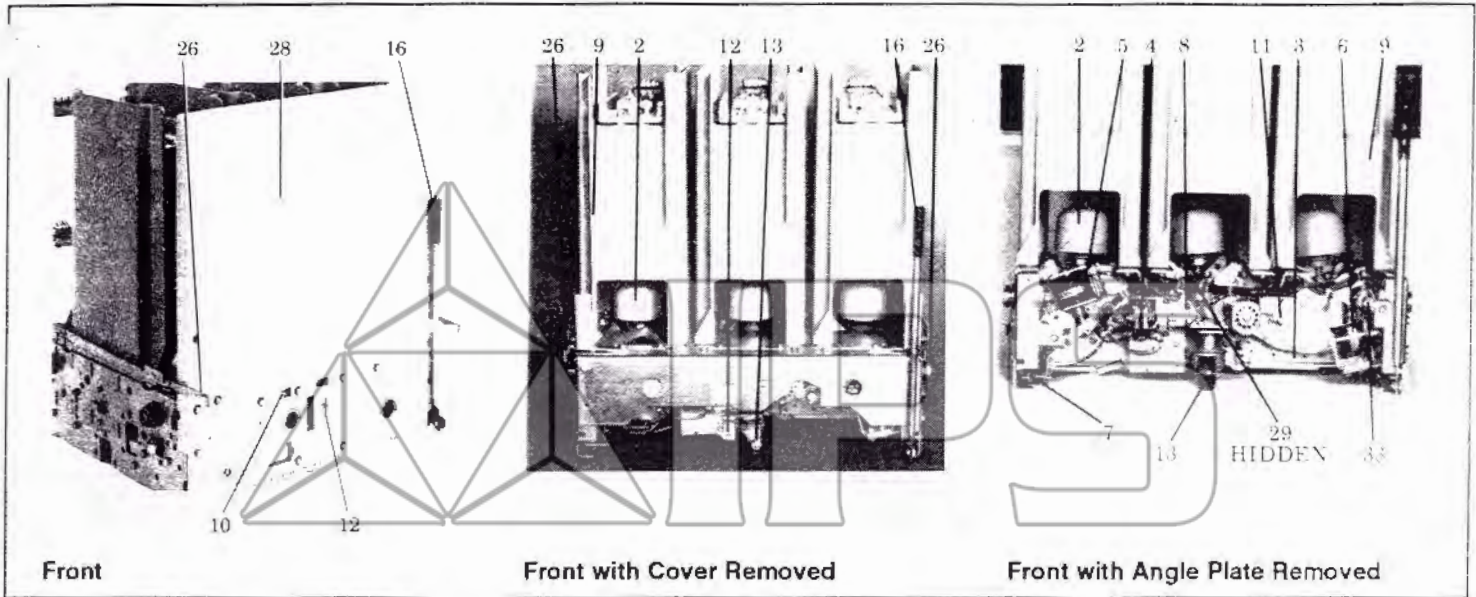




**PowerVac® Vacuum Circuit Breaker  
With ML-17 Mechanism**

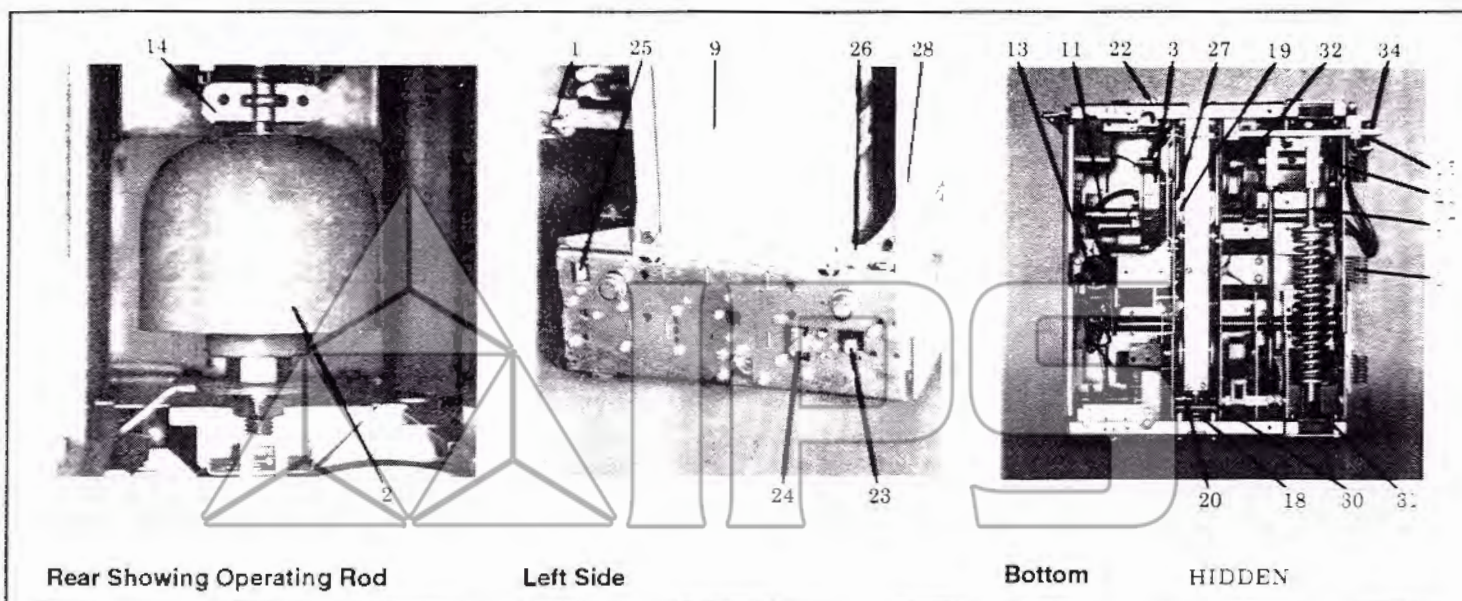


# Front Views



## Recommended Renewal Parts

Reference Number	Description	Catalog Number	Model Designator	Quantity Per Breaker
1	Primary Disconnect Contact Assembly	1200A 0282A2725G002	0, 1, 2, 3	6
		1200A 0282A2700G003		
2	Operating Rod	2000A 0282A2700G004	0, 1, 2, 3	5
		1200A 0282A2701G002		
3	Spring-Charging Motor	3000A 0282A2702G001	0, 1, 2	1
		12 / 2000A 0282A2843G002		
3	Spring-Charging Motor	48 VDC 0282A5222G004	0, 1, 2	1
		125 VDC & 120 VAC 0282A5222G002		
3	Spring-Charging Motor	250 VDC & 240 VAC 0282A5222G003	3	1
		48 VDC 0177C2164G003		
3	Spring-Charging Motor	125 VDC & 120 VAC 0177C2164G001	3	1
		250 VDC & 240 VAC 0177C2164G002		
4	Relay (Non-Nuclear)	48 VDC 0282A2008P001	0, 1, 2, 3	1
		125 VDC 0282A2008P002		
4	Relay (Non-Nuclear)	250 VDC 0282A2008G001	0, 1, 2, 3	1
		120 V - 60 Hz 0282A2008P003		
4	Relay (Non-Nuclear)	240 V - 60 Hz 0282A2008P004	0, 1, 2, 3	1
		120 V - 50 Hz 0282A2008P005		
4	Relay (Non-Nuclear)	240 V - 50 Hz 0282A2008P006	0, 1, 2, 3	1
		48 VDC 0282A2628P001		
4	Relay (Nuclear Only)	125 VDC 0282A2628P002	0, 1, 2, 3	1
		250 VDC 0282A2628G001		
4	Relay (Nuclear Only)	120 V - 60 Hz 0282A2628P003	0, 1, 2, 3	1
		240 V - 60 Hz 0282A2628P004		
4	Relay (Nuclear Only)	120 V - 50 Hz 0282A2628P005	0, 1, 2, 3	1
		240 V - 50 Hz 0282A2628P006		



Reference Number	Description	Catalog Number	Model Designator	Quantity Per Breaker
5	Potential Trip Coil (5 Cycle) 48 VDC 125 VDC 250 VDC	0282A2009P007 0282A2009P008 0282A2009P009	0, 1, 2, 3	1 or 2 As Required
	Potential Trip Coil (3 Cycle) 48 VDC 125 VDC 250 VDC	0282A2009P001 0282A2009P002 0282A2009P003	0, 1, 2, 3	
6	Closing Coil (STD) 48 VDC 125 VDC 250 VDC 120 VAC 240 VAC	0282A2009P001 0282A2009P002 0282A2009P003 0282A2009P004 0282A2009P005	0, 1, 2, 3	1
	Closing Coil (FBT)* 48 VDC 125 VDC 250 VDC 240 VAC	0282A2009P014 0282A2009P001 0282A2009P002 0282A2009P004	0, 1, 2, 3	
7	Control Switch, Normally Open	0282A2097P003	0, 1, 2, 3	2 1 or 2*
	Control Switch, Normally Closed	0282A2097P002	0, 1, 2, 3	
8	Auxiliary Switch	0209B3410P002 0209B3410P001	0 1, 2, 3	1

**Recommended Renewal Parts**

INTERRUPTER ASSEMBLY						
Reference Number	Breaker Type	Continuous Current, Amperes	Close & Latch Current Rating kA	Catalog Number	Model Designator	Quantity Per Breaker
9	VB 4.16-250	1200	58	0282A2751G073	0	3
		1200	78	0282A2751G074		
	2000	58	0282A2751G075			
VB 4.16-250	VB 4.16-250	1200	58	0282A2751G041	1, 2	3
		1200	78	0282A2751G042		
		2000	58	0282A2751G043		
		2000	78	0282A2751G044		
		1200 / 2000	58	0282A2751G063		
		1200 / 2000	78	0282A2751G064		
		1200	58	0282A2751G077		
1200	78	0282A2751G078				
2000	58	0282A2751G079				

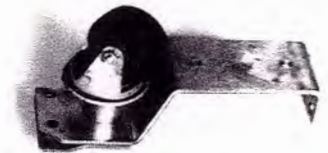
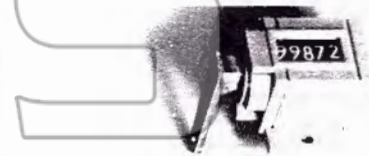
\* Use in breakers with the following on nameplate: "Transfer Dead Time with Load 3 Cycle - Use With Like Breaker."

**Recommended Renewal Parts, Continued**

<b>INTERRUPTER ASSEMBLY</b>						
Reference Number	Breaker Type	Continuous Current, Amperes	Close & Latch Current Rating, kA	Catalog Number	Model Designator	Quantity Per Breaker
9	VB 4.16 - 250	2000	78	0282A2751G080	3	3
		1200 / 2000	58	0282A2751G081		
		1200 / 2000	78	0282A2751G082		
	VB 4.16 - 350	1200** 1200** 2000** 2000** 1200 / 2000** 1200 / 2000**	58	0282A2751G053	3	3
			78	0282A2751G053		
			58	0282A2751G055		
			78	0282A2751G055		
			58	0282A2751G069		
			78	0282A2751G069		
	VB 4.16 - 350	1200 2000 3000 1200 / 2000	78	0282A2751G045	0, 1, 2, 3	3
			78	0282A2751G046		
			78	0282A2751G047		
			78	0282A2751G065		
	VB 7.2 - 500	1200 1200 2000 2000 1200 / 2000 1200 / 2000	66	0282A2751G048	0, 1, 2	3
			78	0282A2751G049		
			66	0202A2751G050		
			78	0282A2751G051		
			66	0282A2751G066		
	VB 13.8 - 5000	1200 2000 1200 / 2000	37	0282A2751G052	0, 1, 2	3
			37	0282A2751G054		
			37	0282A2751G068		
37			0282A2751G053			
37			0282A2751G055			
VB 13.8 - 5000	1200** 2000** 1200 / 2000**	37	0282A2751G069	3	3	
		37	0282A2751G052			
		37	0282A2751G054			
		37	0282A2751G068			
		37	0282A2751G069			
VB 13.8 - 750	1200 1200 2000 2000 1200 / 2000 1200 / 2000	58	0282A2751G089	3	3	
		58	0282A2751G090			
		58	0282A2751G091			
		58	0282A2751G056			
		77	0282A2751G057			
VB 13.8 - 750	1200 1200 2000 2000 1200 / 2000 1200 / 2000	58	0282A2751G058	0, 1, 2, 3	3	
		77	0282A2751G058			
		77	0282A2751G059			
		58	0282A2751G070			
		77	0282A2751G071			
VB 13.8 - 1000	1200 2000 3000 1200 / 2000	77	0282A2751G060	0, 1, 2, 3	3	
		77	0282A2751G061			
		77	0282A2751G062			
		77	0282A2751G072			

\*\* Seismic / Nuclear.

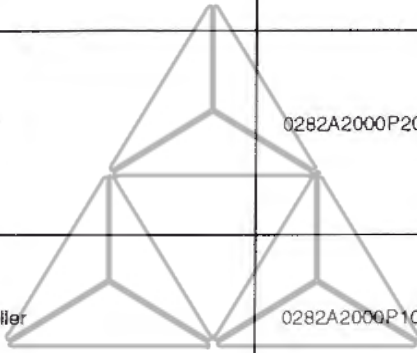
Reference Number	Description	Catalog Number	Model Designator	Quantity Per Breaker
10	Charge-Discharge Flag Operating Rod	0282A2218P001	0, 1, 2, 3	1
11	Clutch Assembly for Motor	0282A2402G001 0282A2402G002	0, 1, 2 3	1
12	Operation Counter	0282A2006P001	0, 1, 2, 3	1
13	Swivel Caster	0282A2046P002	0, 1, 2, 3	1
14	Coupling Clamp, Split Ring	0282A5061G003	0, 1, 2, 3	3
5	Secondary Disconnect Assembly (Pin Connectors Not Included)	0209B3579G001	0, 1, 2, 3	1
15A	Pin Connectors, Male (On Breaker)	0282A2081P001	0, 1, 2, 3	23
15B	Pin Connectors, Female (On Equipment) ■	0282A2081P002	(None)	(None)
16	Secondary Disconnect Handle	0209B35342G001	0, 1, 2, 3	1
17	Pull rod	0282A2476P001 0282A2476P002	0, 1, 2 3	1 1
18	Opening Stop Bolt Assembly	0282A5045G001	0, 1, 2, 3	1



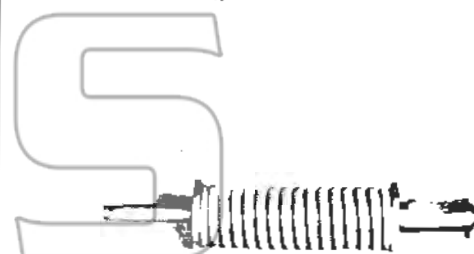
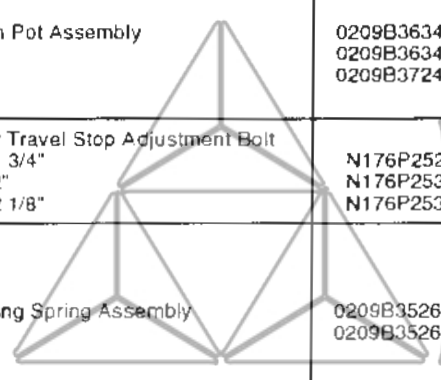
■ Pin connectors require removal and crimping tools available from AMP, Inc. Pin removal tool P/N 453300-1, Crimping tool Model D Catalog #69710, Die Catalog #90306-1

# Additional Renewal Parts

Reference Number	Description	Catalog Number	Model Designator	Quantity Per Breaker
19	Toggle Pin	Refer to Factory		
20	Trip Roller	0282A2000P200	0, 1, 2, 3	1
21	Closing Roller	0282A2000P100	0, 1, 2, 3	1
22	Spring Discharge Interlock Assembly	0177C2130G005	0, 1, 2, 3	1
23	Negative Interlock Assembly	0177C2131G002	0, 1, 2, 3	1
24	Redundant Negative Interlock Assembly	0177C2131G007	0, 1, 2, 3	1
25	Closing Spring Gag Interlock	0282A2181P001	0, 1, 2, 3	1
26	Rack-Out Arm Assembly Standard-Left Standard-Right Nuclear/Seismic-Left Nuclear/Seismic-Right	0209B3584G001 0209B3584G002 0209B3646G003 0209B3646G004	0, 1, 2, 3	1
27	Spline Adapter Assembly	0282A5219G001	0, 1, 2, 3	1



Reference Number	Description	Catalog Number	Model Designator	Quantity Per Breaker
28	Front Cover Assembly (See photo, page 2)	0209B3581G001 0209B3581G002	0, 1, 2 3	1
29	Dash Pot Assembly	0209B3634G001 0209B3634G002 0209B3724G001	0 1 2, 3	1
30	Over Travel Stop Adjustment Bolt 1 3/4" 2" 2 1/8"	N176P2528B6 N176P2532B6 N176P2534B6	0, 1, 2, 3 0, 1, 2, 3 1, 2	6
31	Closing Spring Assembly	0209B3526G001 0209B3526G002	0, 1, 2, 3 0, 1	1
32	Gear Motor Limit Switch Operator Assembly	0209B3626G001	0, 1, 2, 3	1
33	Close Latch Checking Switch	0282A2005P002	0, 1, 2, 3	1
34	Ground Rod	0282A2147P001	0, 1, 2, 3	1
35	Brake Assembly	0209B3617G001 (None)	0, 1, 2 3	1 (Not Required)
None	Undervoltage Trip Device 48 VDC 125 VDC 250 VDC	0282A5218G001 0282A5218G002 0282A5218G003	0, 1, 2, 3	1
None	Pin Retaining Rings, Assortment	0282A2015G001	0, 1, 2, 3	1



**Ordering Instructions**

1. Always specify complete nameplate data of the breaker.
2. Specify the quantity, catalog number and reference number (if listed), description and this brochure number.
3. Standard hardware – such as screws, bolts, nuts, washers etc. – is not listed in this brochure. These items should be purchased locally.
4. Refer to the nearest GE Electrical Distribution & Control sales office for pricing information.
5. For instructions / recommended maintenance, refer to GEK-90208.