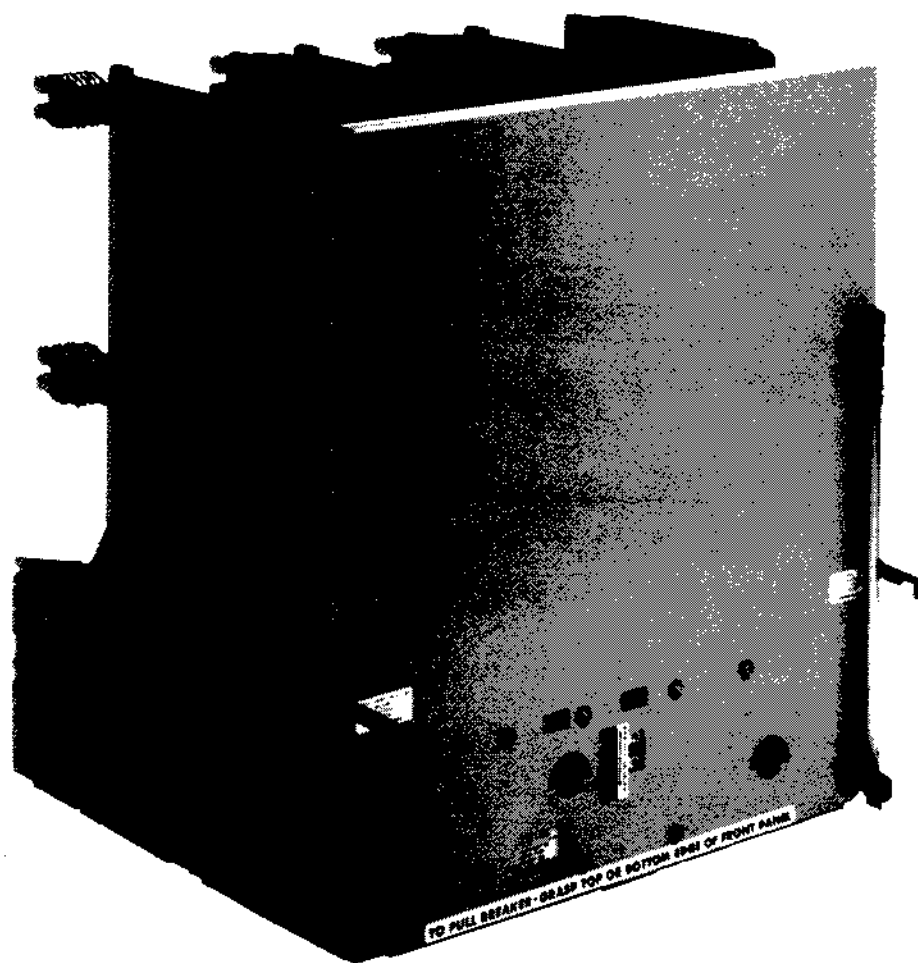


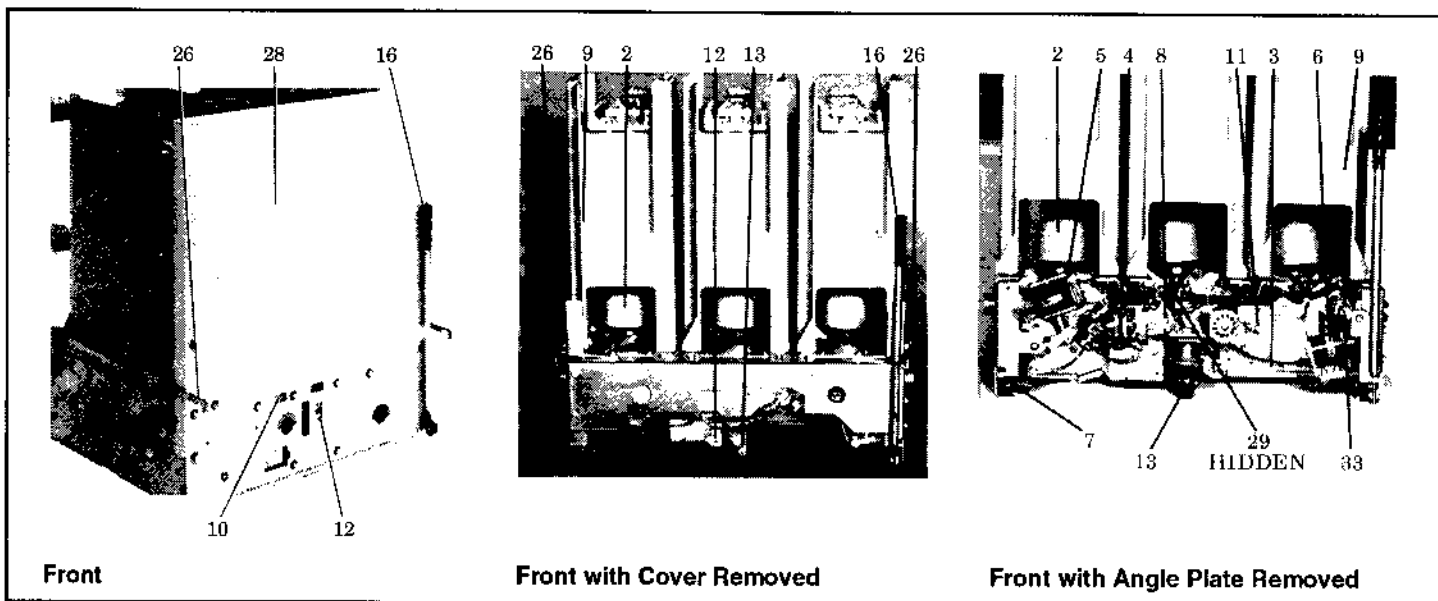


GEF-4705A Renewal Parts

PowerVac® Vacuum Circuit Breaker With ML-17 Mechanism

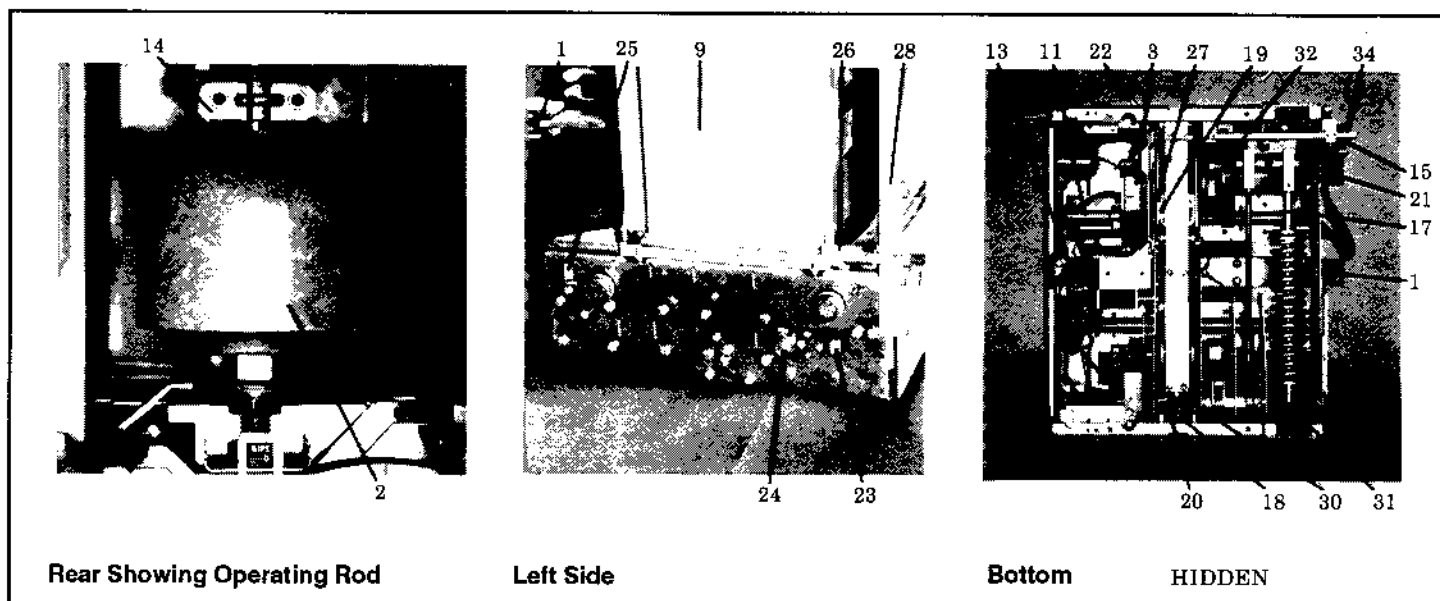


Front Views



Recommended Renewal Parts

Reference Number	Description	Catalog Number	Model Designator	Quantity Per Breaker
1	Primary Disconnect Contact Assembly 1200A 1200A 2000A 1200A 3000A 12 / 2000A	0282A2725G002 0282A2700G003 0282A2700G004 0282A2701G002 0282A2702G001 0282A2843G002	0, 1, 2, 3	6
2	Operating Rod	0209B3401G001	0, 1, 2, 3	3
3	Spring-Charging Motor 48 VDC 125 VDC & 120 VAC 250 VDC & 240 VAC	0282A5222G004 0282A5222G002 0282A5222G003	0, 1, 2	1
	48 VDC 125 VDC & 120 VAC 250 VDC & 240 VAC	0177C2164G003 0177C2164G001 0177C2164G002	3	1
4	Relay (Non-Nuclear) 48 VDC 125 VDC 250 VDC 120 V - 60 Hz 240 V - 60 Hz 120 V - 50 Hz 240 V - 50 Hz	0282A2008P001 0282A2008P002 0282A2008G001 0282A2008P003 0282A2008P004 0282A2008P005 0282A2008P006	0, 1, 2, 3	1
	Relay (Nuclear Only) 48 VDC 125 VDC 250 VDC 120 V - 60 Hz 240 V - 60 Hz 120 V - 50 Hz 240 V - 50 Hz	0282A2628P001 0282A2628P002 0282A2628G001 0282A2628P003 0282A2628P004 0282A2628P005 0282A2628P006	0, 1, 2, 3	1



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 Control Switch, Normally Closed	0282A2097P003 0282A2097P002	0, 1, 2, 3 0, 1, 2, 3	2 1 or 2*
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 1200 2000 2000	58 78 58 78	0282A2751G073 0282A2751G074 0282A2751G075 0282A2751G076	0	3
	VB 4.16-250	1200 1200 2000 2000 1200 / 2000 1200 / 2000	58 78 58 78 58 78	0282A2751G041 0282A2751G042 0282A2751G043 0282A2751G044 0282A2751G063 0282A2751G064	1, 2	3
		1200 1200 2000	58 78 58	0282A2751G077 0282A2751G078 0282A2751G079	3	3

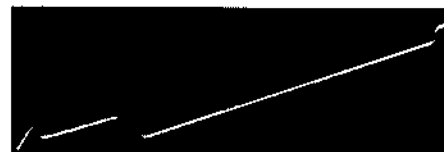
* Use in breakers with the following on nameplate: "Transfer Dead Time with Load 3 Cycle - Use With Like Breaker."

Recommended Renewal Parts, Continued

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	2000 1200 / 2000 1200 / 2000	78 58 78	0282A2751G080 0282A2751G081 0282A2751G082	3	3
		1200** 1200** 2000** 2000** 1200 / 2000** 1200 / 2000**	58 78 58 78 58 78	0282A2751G053 0282A2751G053 0282A2751G055 0282A2751G055 0282A2751G069 0282A2751G069	3	3
	VB 4.16 – 350	1200 2000 3000 1200 / 2000	78 78 78 78	0282A2751G045 0282A2751G046 0282A2751G047 0282A2751G065	0, 1, 2, 3	3
	VB 7.2 – 500	1200 1200 2000 2000 1200 / 2000 1200 / 2000	66 78 66 78 66 78	0282A2751G048 0282A2751G049 0202A2751G050 0282A2751G051 0282A2751G066 0282A2751G067	0, 1, 2	3
		1200 1200 2000 2000 1200 / 2000 1200 / 2000	66 78 66 78 66 78	0282A2751G083 0282A2751G084 0282A2751G085 0282A2751G086 0282A2751G087 0282A2751G088	3	3
	VB 13.8 – 5000	1200 2000 1200 / 2000	37 37 37	0282A2751G052 0282A2751G054 0282A2751G068	0, 1, 2	3
		1200** 2000** 1200 / 2000**	37 37 37	0282A2751G053 0282A2751G055 0282A2751G069	0, 1, 2	3
		1200 2000 1200 / 2000	37 37 37	0282A2751G052 0282A2751G054 0282A2751G068	3	3
		1200** 1200** 1200 / 2000**	37 37 37	0282A2751G053 0282A2751G055 0282A2751G069	3	3
		1200 2000 1200 / 2000	58 58 58	0282A2751G089 0282A2751G090 0282A2751G091	3	3
	VB 13.8 – 750	1200 1200 2000 2000 1200 / 2000 1200 / 2000	58 77 58 77 58 77	0282A2751G056 0282A2751G057 0282A2751G058 0282A2751G059 0282A2751G070 0282A2751G071	0, 1, 2, 3	3
	VB 13.8 – 1000	1200 2000 3000 1200 / 2000	77 77 77 77	0282A2751G060 0282A2751G061 0282A2751G062 0282A2751G072	0, 1, 2, 3	3

** 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 15A 15B	Secondary Disconnect Assembly (Pin Connectors Not Included) Pin Connectors, Male (On Breaker) Pin Connectors, Female (On Equipment) ■	0209B3579G001 0282A2081P001 0282A2081P002	0, 1, 2, 3 0, 1, 2, 3 (None)	1 23 (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.



GE Electrical Distribution & Control