

# Replacement Parts List

## Delivery Color Code

**Red:** Orders received before 12:00 PM EST will ship the same day.

**Green:** Ship date three business days after receipt of order.

**Blue:** Ship date ten business days after receipt of order.

**Black:** Ship date determined at order placement.

Item No.	Description	Joslyn™ Part No.	VEST™ Part No.
1	Mechanism assembly, 15kV solenoid operated three pole switches	3021X0242 P001	
1A	Mechanism assembly, 34, 46, & 69kV solenoid operated two pole switches		
1B	Mechanism assembly 34kV solenoid operated three pole switches		
1C	Mechanism assembly 34kV motor operated three pole switches		
1D	Mechanism assembly 15kV motor operated three pole switches		
2A	Fracture resistant vacuum interrupter module, 15kV 600A without pull rod	3021X0242 P003	1000674G1
2B	Fracture resistant vacuum interrupter module, 34kV 600A without pull rod	3021X0242 P005	1000674G1
2C	Fracture resistant vacuum interrupter module, 46kV 600A without pull rod	3021X0242 P007	1000674G1
2D	Double stack module, silicone rubber sheds, 300A	3021X0242 P401	1001184G1
2E	Single module with silicone rubber sheds, 300A		1001989G1
2F	Double stack module for 46 & 69kV 300A switch	3021X0242 P401	1001184G6
2G	Module with grading capacitors, 34kV 600A, without pull rod		
2H	Single module with grading capacitors and silicone rubber sheds, 300A for 46kV switch		
2I	Double stack module with grading capacitors and silicone rubber sheds, 300A for 46 & 69kV switch		
2J	Double stack module with grading capacitors and silicone rubber sheds, 300A for 34kV three pole switch		
3	Bolt, hex head, 1/4-20 x 2½" SST	3021X0242 P008	1000587
3A	Bolt, hex head, 1/4-20 x 2" SST		1001242
3B	Bolt, hex head, 1/4-20 x 1" SST		1001225
3C	Bolt, hex head, 1/4-20 x 1½" SST		1000120
4	Washer, Belleville SST	3021X0242 P009	1000640
5	Washer, flat, 9/32 ID x 5/8" OD x 1/16" alum.	3021X0242 P010	1000635
6	Gasket, obsolete	3021X0242 P011	
7	Nut, hex, 1/4-20 SST	3021X0242 P012	1000583
8	Insulator, 15kV, skirted	3021X0242 P014	1000662
9	Bolt, hex head, 1/4-20 x 1¼" SST	3021X0242 P015	1000106
10	Bolt, hex head, 1/4-20 x 1¼" L, Gr. 8	3021X0242 P016	1000601

10A	Bolt, hex head, 1/4-20 x 1" L, Gr. 8		1000018
11	Washer, split lock, 1/4" standard, Gr. 5 & 8	3021X0242 P017	1000008
11A	Washer, SAE flat, 1/4"		1000013
12	Nut, hex head, 1/4-20 standard, Gr. 8	3021X0242 P018	1000027
13	Obsolete		
14	Mechanism gasket, 10 hole	D63293P1	1000107P1
14A	Mechanism gasket, 12 hole	3021D0422P1	1000107P2
15	Mechanism cover, 10 hole	3021X0242 P021	1000568P1
15A	Mechanism cover , 12 hole		1001809P1

Item No.	Description	Joslyn™ Part No.	VEST™ Part No.
16	Screw, pan head, Phillips, 1/4-20 x 1" SST	3021X0242 P022	1000595
17	Washer, split lock, 1/4" standard, SST	3021X0242 P023	1000110
18	Screw, indented hex head, 6-32 x 3/8" L, SST	3021X0242 P024	1000931
19	Drierite™ desiccant, 2 oz. calcium sulfate in sealed bag	3021X0242 P025	1000924
20	Bolt, hex head, 3/8-16 x 1" L	3021X0242 P026	1000111
21	Washer, split lock, 3/8" standard	3021X0242 P027	1000112
22	Closure plate	3021X0242 P101	1001996P1
23	Clamping plate, 1/4-20 tapped hole (use with parts 10A & 11)	3021X0242 P102	1000644P1
23A	Clamping plate, 3/8-16 tapped hole (use with parts 20 & 21)		
24	Breather bag	3021X0242 P103	1000114P1
24A	Sheet metal shroud covers breather bag	3021D0113P2	1000580P1
24B	Valve, Schrader		1000534
24C	Screw, pan head, 1/4-20 x 5/8" plastic, black		1000414
24D	Bolt, hex head, 1/4-20" x 1/2" SST		1001821
24E	Washer, flat, 1/4" ID x 1/2" OD, SST		1001823
25	Screw, slotted head, 10-32 x 3/8" L, SST	3021X0242 P104	1000507
26	Handle cover with three screw holes	3021X0242 P105	1000578P2
26A	Handle cover with two screw holes		1000578P3
26B	Counter for handle cover, 5 digit		1000925
27	Mechanism assembly 34 & 46kV	3021X0242 P106	
28	Bolt, hex head, 1/2-13 x 1 1/4" L, SST	3021X0242 P107	1000029
29	Washer, Belleville, 1/2" SST	3021X0242 P108	1000055
30	Nut, hex, 1/2-13 standard, SST	3021X0242 P109	1000030
30A	Washer, flat, 1/2" thick SST		1000054
30B	Noalox™ 8 oz.		1000021
30C	Connecting bar for 34kV harmonic filter switch		1000544P1
30D	Connecting bar for 46kV double stack switch		1001983P1
31	Connecting buss bar for 34, 46 & 69kV 600A switches	3021X0242 P110	1000508P2

32	O-ring, 3½" ID x 3¾" OD x 1/8", dash 238	3021X0242 P111	1000638
33	Insulator, 34kV skirted	3021X0242 P112	1000661
33A	Insulator, 46kV skirted	3021X0242 P113	1001940
34	Bolt, hex head, 1/4-20 x 1¾" L, SST	3021X0242 P114	1000684
35	Gasket, Teflon	3021X0242 P115	1000121P1
36	Mechanism housing for 15kV or 34kV three pole	3021X0242 P116	1000564P1
37	Mechanical housing for 34, 46, or 69kV two hole	3021X0242 P117	1000563P1
38	Control yoke	3021X0242 P118	1000500P2
38A	Washer, Nylatron, 1/2" ID x 0.031"		1000610
38B	Washer, Nylatron, 1.125" OD x 0.753" ID x 0.030" thick		1002080
38C	Control yoke, 3/4"		1002068P1
39	Nylon pin	3021X0242 P119	1000376P1
40	Dust cap	3021X0242 P120	1000124
41	Connector, obsolete	3021X0242 P121	

Item No.	Description	Joslyn™ Part No.	VEST™ Part No.
42	Pull rod, clevis	3021X0242 P122	1000023G1
42A	Pull rod, clevis, for handle side of 34kV three pole switch		1001125G1
42B	Pull rod, clevis, for position indicator counter side of 34kV 300A three pole switch		1001122G1
42C	Clevis shaft for use with 42A & 42B		1001121P1
43	Bolt, hex head, 3/8-16 x 2¼" L, Gr. 8, SST	3021X0242 P123	1000602
43A	Bolt, hex head, 3/8-16 x 2½" L, Gr. 8		1000997
43B	Washer, split lock, 3/8", Gr. 8		1000112
43C	Screw-lock, helical, 3/8-16 (used with 43A)		1000012
44	Actuator bar link	3021X0242 P124	1000514G1
44A	Actuator bar link for 34kV three pole switch		1001119G1
45	Actuator bar without screw holes for aux switch plate	3021X0242 P125	1000513G1
45A	Actuator bar with screw holes for aux switch actuator plate	3021X0242P125	1000513G2
46	Support bar with mounting holes for Eaton™ aux switch	3021X0242 P126	1000512G1
46A	Support bar for 34kV 300A three pole switch		1000512G2
47	Ty-wrap	3021X0242 P127	1000607
48	Bolt, hex head, 3/8-16 x 1¾" L, obsolete	3021X0242 P201	
49	Nut, hex, standard, obsolete	3021X0242 P202	
50	Solenoid assembly, DECCO™	3021X0242 P203	1000685G1
50A	Solenoid coil, DECCO™	3021B0511 P7	1000515P15
50B	Plunger, DECCO™ (replace as matched set with 50C)		1000515P7
50C	Push pin, DECCO™ (replace as matched set with 50B)		1000515P13
50D	Side plate, DECCO™ (replace all four at one time)		1000515P3

50E	Solenoid spacer for 1/4" hex cap screw, DECCO™, 1/2" dia. x 1 1/4" L		1000502P1
50F	Screw, hex cap, 1/4-20 x 2", Gr. 5		1000603
50G	Washer, shim, 1/4" ID, 0.010" thick, brass		1000745P1
50H	Field stack, DECCO™		1000515P2
50J	Screw		1000515P4
50K	Nut, Nylock		1000515P5
50L	Washer, lock		1000515P6
50M	Spring		1000515P8
50N	Stop plate		1000515P9
50P	Shock absorbers		1000515P10
50Q	Mounting pad		1000515P11
50R	Solenoid shim		1000705
50S	Bushing		1000515P14
50T	Vibra-Tite Formula 3™ thread locker		1000074
50U	Solenoid coil, NAMCO™ EB401-78093		1000539
50V	Bearing plate, NAMCO™, bronze		1000810P1
50X	Bearing plate support, right , NAMCO™		1000813P1
50W	Bearing plate support, left, NAMCO™		1000812P1
50Z	Coil clip, NAMCO™		1000811P1

Item No.	Description	Joslyn™ Part No.	VEST™ Part No.
50AA	U shim, switch solenoid 0.020"		1000320P1
50AB	U shim, switch solenoid 0.031"		1000320P2
50AC	U shim, switch solenoid 0.040"		1000320P3
50AD	Field stack, NAMCO™		
50AE	Armature, NAMCO™		
50AF	Top plate, NAMCO™		
50AG	Stand off (short)		
50AH	Stand off (long)		
50AJ	Screw, socket head cap		
50AK	Screw, hex head, 1/4-20 x 4" L, Gr. 8		1000768
50AL	Solenoid assembly, NAMCO™		
50AM	Double solenoid, DECCO™, for 34kV 300A three pole switch		1001156G1
51	Yoke bumper stop (all rubber) for DECCO™ solenoid only	3021X0242P204	1000516G1
51A	Yoke bumper stop (all rubber) for NAMCO™ solenoid only		1000932G1
51B	Yoke bumper stop (all rubber) for DECCO™ double solenoid only		1001066G1
52	Expansion plug, aluminum	3021X0242 P205	1000158
53	Bushing, 1/2" ID x 5/8" OD x 3/4" L	3021X0242 P206	1000385

54	Shaft (short) 1/2" dia.	3021X0242 P207	1000511P1
55	Bushing, 1/2" ID x 5/8" OD x 1" L	3021X0242 P208	1000609
56	Seal for 1/2" dia. shaft	3021X0242 P209	1000386
56A	Seal, spring loaded double lip, for 3/4" dia. shaft		1002064
57	Shaft (long) 1/2" dia.	3021X0242 P210	1000510P1
57A	Shaft (long) 3/4" dia.		1002062P1
58	Actuating arm, Joslyn™ design for 1/2" dia. shaft	3021X0242 P211	1000498P2
58B	Operator handle, 0.5" dia. shaft		1002063P1
59	Pin, Sel-lock, 1/4" dia.	3021X0242 P212	1000051
59A	Spring pin, 3/8" dia. x 1 1/2"		1002289
59B	Spring pin, 3/8" dia. x 2"		1002288
60	Cotter pin, (Monel) 1/8" x 1 1/2"	3021X0242 P213	1000681
60A	Cotter pin, 1/8" x 2 L, zinc plated steel		1002147
61	Washer, flat, 0.156" ID x 0.375" OD x 0.036-.065" thick	3021X0242 P214	1000730
61A	Washer, 0.438" OD x 0.188" ID, 18/8 SST		1002590
62	Lockwire, 0.032 dia., 1/8 hard, 303 SST	3021X0242 P215	1000387
63	Cotter pin, (Monel) 1/16" x 1/2"	3021X0242 P216	1000446
64	Washer, Nylatron spacer, 0.062" thick	3021X0242 P217	1000098
65	Washer, Nylatron spacer, 0.015" thick	3021X0242 P218	1000096
65A	Washer, Nylatron spacer, 0.032" thick		1000097
66	Toggle link	3021X0242 P219	1000499G1
67	Plain bearing, 1/4" x 3/8" x 1/4" L	3021X0242 P220	1000002
68	Link pivot pin (short) 1/4" dia.	3021X0242 P221	1000057P1
69	Clevis pin, spring retaining 1/8" dia. x 7/8"	3021X0242 P222	1000024P3
69A	Washer, wool felt, 0.062" thick		1000725

Item No.	Description	Joslyn™ Part No.	VEST™ Part No.
69B	Washer, wool felt, 0.125" thick		1000724
70	Spring assembly for 15, 34, 46kV 600A switch and 46 & 69kV 300A switch	3021X0242 P223	1000390G1
70A	Spring assembly for 34kV 300A three pole switch		1000390G2
71	Clevis pin, 1/4" dia.	3021X0242 P224	1000058P1
71A	Locking plate, 1.25" x 0.0625" x 0.125"		1000606P1
72	Bolt, hex head, 1/4-20 x 3/4", Gr. 8	3021X0242 P225	1000391
73	Washer, flat, 1/4" nom. x 9/16" OD, zinc plated steel	3021X0242 P226	1000392
74	Wire harness, Eaton™ auxiliary switch, & environmental connector w bracket & crimp connectors on wires	3021X0242 P227	1000521G1
75	Plate, switch actuating	3021X0242 P301	1000530P1
75A	Screw, slotted round head, 6-32 x 3/8" L		1000460
75B	Washer, internal tooth, #6		1000604

75C	Loctite 290™, green		1000605
76	Screw, Fillister head	3021X0242 P302	1000395
77	Washer, split lock, standard, #6	3021X0242 P303	1000594
78	Gasket (receptacle)	3021X0242 P304	1000148P1
79	Spacer	3021X0242 P305	1000398
80	Tapped bar	3021X0242 P306	1000589P1
81	Bumper assembly	3972X0062 P307	1000016G1
82	Bolt, hex head, 5/16-18 x 2¼" L, Gr. 8	3021X0242 P308	1000400
83	Washer, split lock, 5/16" standard	3021X0242 P309	1000323
84	Spacer bar	3021X0242 P310	1000588P1
85	Spacer, nylon, obsolete		
85A	Insertion resistor, 80 ohm	3021X0242P413	1002256G1
86	Six digit counter & position indicator assembly	3021X0242 P415	1000527G1
86A	Counter spring for 5 digit counter	3021X0242 P321	1000146
86B	Counter spring for 6 digit counter		1000147P1
86C	Counter, 6 digit		1000436
86D	Counter, 5 digit	3021X0242P320	1000437
86E	Screws for attaching 5 digit counter		1000479
86G	Counter actuator plate, 6 digit		1000509P1
86H	Counter actuator plate, 5 digit	3021X0242P322	1000758P1
86J	Bracket, position indicator		1000526P1
86K	Faceplate, position indicator		1000193P1
86L	Pointer, position indicator		1000192P1
86M	Screw, round head, 4-40 x 3/8" L, zinc plated steel		1000283
86N	Nut, hex, 4-40, standard, zinc plated steel		1000299
86P	Washer, split lock, #4, standard, zinc plated steel		1000279
86Q	Window retaining ring, 5/8" for thin wall casting		1000125P1
86R	Window retaining ring, 3/4" for thick wall casting		1000125P2
86S	Glass	3021X0242 P414	1000153
86T	RTV sealant		1000245

Item No.	Description	Joslyn™ Part No.	VEST™ Part No.
86U	Washer, internal shake proof, #10		1000608
86V	Screw, round head, #10, 3/8" L, zinc plated steel		1000293
86W	Washer, split lock, 1/4", zinc plated steel		1000304
86X	Bolt, hex head, 1/4- 20 x 3/4", Gr. 8		1000391
86Y	Nut, hex, 1/4- 20, Gr. 2, zinc plated steel		1000308
87	Insulator, 69kV	3021X0242 P402	1001152
88	Pull rod assembly, 15kV 600A module	3021B0403G1	1000402G1

89	Pull rod assembly, 34kV 600A module	3021B0403G2	1000403G1
90	Pull rod assembly, 46kV 600A module	3021B0403G3	1000404G1
90A	Pull rod assembly, 69kV 600A module		1001995G1
91	Pull rod, outer, 34kV 300A three pole with Joslyn™ module	3021B0403G6	1001062G1
91A	Pull rod, outer, 34kV 300A three pole with VES™ module		1001251G1
91B	Pull rod, inner, 34kV 300A three pole with Joslyn™ module	3021B0403G4	1001062G2
91C	Pull rod, inner, 34kV 300A three pole with VES™ module		1001251G1
92	Pull rod for 46kV 300A double module Joslyn™ design	3021B0403G7	1001988G1
92A	Pull rod for 46kV 300A double module VES™ design		1001656G3
92B	Pull rod for 46kV 300A single module	3021B0403G3	1000404G1
93	Pull rod for 69kV 300A double module Joslyn™ design	3021B0403G8	1000993G1
93A	Pull rod for 69kV 300A double module VES™ design		1001656G4
94	Plate, closed red, 1" wide		1000540P1
94A	Plate, closed red, 3/4" wide		1001400P1
95	Plate, open green, 1" wide		1000541P1
95A	Plate, open green, 3/4" wide		1001401P1
96	Screw, sheet metal, #4 x 1/4" SST		10000479
97	Cable assembly, standard 15 pin, 40 ft.		1000576G3
98	Cable assembly, standard 15 pin, 30 ft.		1000576G2
99	Cable assembly, standard 15 pin, 25 ft.		1000576G4
100	Complete adjustment and repair kit	3090X0014G1	1000375
101	Shipping crate, one switch, 15 & 34kV		1000817G1
102	Shipping crate, two switch, 15 & 34kV		1000646G1
103	Shipping crate, three switch, 15 & 34kV		1000818G1
104	Shipping crate, one switch, 46kV		1000819G1
105	Shipping crate, two switch, 46kV		1000820G1
106	Shipping crate, three switch, 46kV		1000821G1
107	Nameplate		1000592P1
110	Insulator pedestal, 34kV for 34 kV three pole switch		1001978P1
111	Rear mounting bracket		1002040P2
112	Washer, flat, 0.44" OD x 0.20" ID		1002405
113	Screw, hex head, 10-32		1002450
114	Motor operator trip spring		1002664P1
115	Plastic bumper		1002670P1
116	Screw, Fillister head, 5-40		1002451

Item No.	Description	Joslyn™ Part No.	VES™ Part No.
117	Trip solenoid		1001581
118	Semi tubular rivet		1002437

119	Spring, trip coil		1000789P1
120	Washer, flat, Delrin, 0 .5" shaft		1002428
121	Cotter Pin, (Monel), 3/4" L		1002218
122	Retaining ring, self-locking, 3/8" shaft		1002429
123	Toggle link stop shaft		1002420P1
124	Toggle link shaft		1002418P1
125	Toggle link spring shaft		1002421P1
126	Tight fit spacer, alum.		1002423P1
127	Middle linkage, motor mechanism		1002031P2
128	Bearing, needle, 5/8" thick		1000787
129	Inner bearing shaft		1002419P1
130	Washer, vinyl shim, 0.5" shaft		1002427
131	Retaining ring, e-style, 0.375" shaft		1002488
132	Spacer, large, alum.		1002424P1
133	Linkage arm		1002030P1
134	Needle bearing, 5/16" thick		1000786
135	Double linkage		1002029P1
136	Clutch arm spring pin		1002203P1
137	Motor mechanism to toggle link shaft		1002417P1
138	Trip linkage		1002032P1
139	Screw, set, 1/4-20		1002415
140	Nut, hex jam, 1/4-20		1002416
141	Side plate, non-handle side		1002182P1
142	Side plate, handle side		1002183P1
143	Bearing, one way roller clutch		1002244
144	Screw, 1/4-20 x 3/4" L		1000230
145	Washer, Belleville, 1/4" ID		1000640
146	Spring washer, motor mechanism		1002220P1
147	Spring rod end, motor mechanism		1002219P2
148	Spring, motor mechanism		1002447P1
149	Nylatron, 0 .5" shaft		1000610
150	Nut, hex jam, 3/8-16		1002226
151	Washer, Belleville, 0.386" ID x 0.813" OD		1000218
152	Screw, hex head, 3/8-16		1000480
153	Washer, split lock, #10		1000282
154	Screw, set, 10-32 x 1/2" L		1001979
155	Nut, hex, 10-32		1000302
156	Motor mechanism nameplate		1003305P1
157	Screw, hex head cap, 3/8-16		1002439



158	Washer, spring lock, 3/8"		1002474
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Item No.	Description	Joslyn™ Part No.	VES™ Part No.
160	Nylon support pin, motor mechanism		1002467P1
161	Front mounting bracket, plated		1002045P2
162	Spring pin, 3/8" dia. x 1½" L		1002289
163	Pin, nylon, 0.375" dia. x 3.5" L		1000376P1
164	Clutch arm, right-hand		1002003P1
165	Clutch arm, left-hand		1002022P1
166	Spring pin, 1/4" dia.		1002445
167	Actuator pin		1002442P1
168	Motor cam		1002007G1
169	Bellcrank clutch		1000785
170	Spring bellcrank		1000790P1
171	Cam shaft, motor mechanism		1002422P1
172	Stop lever		1002452P1
173	Mini spring, motor mechanism		1002446P1
174	Spring pin, 1/8" dia.		1000802
175	Motor, 115V, universal		1002393
176	Stud, threaded rod, 8-32		1001580P1
177	Spring pin, 3/32" dia. x 3/8" L		1000792
178	Motor side plate		1000781P2
179	Connector, quick disconnect, female		1002512
180	Washer, split lock, #8		1000281
181	Nut, hex, 8-32		1000301
182	Worm, modified		1001584P1
183	Mini cam shaft		1001583P1
184	Mini nylon cam		1001582P1
185	Worm gear, modified		1001585P1
186	Motor front plate		1002663P1
187	Spring pin, 3/32" dia. x 5/8" L.		1000793
188	Washer, felt, 1/4" ID x 1.5" OD		1002999
189	Washer, steel, 1/4" ID x 7/8" OD		1003000
190	Worm gear spring, 1/4" shaft, 11/16		1003001
191	Washer, Nylatron, 0.25" shaft		1000096
192	Vibra-Tite Formula 3™ thread locker		1000074
193	Loctite 272, red		1002682
194	Motor oil 10W30		1000754
195	Moly fortified grease		1000755

196	Standard motor assembly		1002399G1
197	Motor mechanism assembly		1002673G1
198	Cable harness, 15 connector assembly		1002817G1
199	Cable harness, 35 connector assembly		1002801G1
200	VES-M contact block assembly, handle side		1003241G1
201	VES-M contact block assembly, non-handle side		1003241G2

<b>Item No.</b>	<b>Description</b>	<b>Joslyn™ Part No.</b>	<b>VES™ Part No.</b>
202	Contact block mounting kit, 15 Pin		1003360G1
203	Contact block mounting kit, 35 Pin		1003360G2
204	Relay panel assembly, 120/48V		1002823G1
205	Relay panel assembly, 125V		1002823G2
206	Transfer bar, contact block, 35 Pin		1003261P1
207	Spring, motor operator		1000788P1
208	Spring pin, 1/8" dia. x 1 1/2" L		1002289P1