



SWITCHGEAR

RENEWAL PARTS ORDERING GUIDE

TYPE FC-1000, 15-KV
AIR MAGNETIC CIRCUIT BREAKERS

With

SOLENOID OR STORED
ENERGY OPERATORS

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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.

ORDERING EXAMPLE

Type <u>FC-1000</u>	Rated Amps <u>3000</u>	Serial Number <u>H62484-2</u>		
Type of Operator: ☒ Solenoid	☐ Stored Energy			
Renewal Parts Ordering Guide <u>18X4441-01</u>				
Fig	Item	Description	Part Number	Quantity
1	26	Angle	71-115-222-001	1
6	16	Cylinder	71-114-155-002	1
6	48	Indicator	71-101-247-001	2

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.

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Solenoid Operated Basic Breaker - 3000A	18-466-958-503	1	1
Stud & Support Assembly - 3000A	71-302-190-503	2	2
Stud and Contact Assembly - 3000A	71-401-169-515	3	3
Main Contact Block Assembly - 3000A	71-302-186-503	4	4
Stored Energy Breaker Assembly - 3000A	72-422-922-603	8	9
Stored Energy Basic Breaker - 3000A	18-466-957-503	8	9

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ITEM	DESCRIPTION	PART NUMBER	ITEM	DESCRIPTION	PART NUMBER
1	Contact Finger Ass'y.	18-657-456-579	21	Basic Breaker Ass'y.	18-466-958-501*
2	Primary Disc Ass'y.	18-657-511-578		(Includes items 22	18-466-958-503**
3	Cooler	71-112-772-503		thru 34 below)	
4	Arc Chute Support	71-114-204-501	22	Frame & Operator	72-420-021-501
5	Panel	71-206-907-505	23	Shim	71-110-641-001
6	Barrier	71-208-182-501	24	Shim	71-110-641-002
7	Inter-Phase Insulation	71-401-299-509	25	Pin	71-111-640-001
8	Arc Chute	71-500-326-502	26	Link	71-113-440-004
9	Strap	71-208-646-001	27	Shim	71-113-679-001
10	Label	71-108-145-001	28	Pin	71-164-062-013
11	Indicator	71-111-259-001	29	Angle	18-657-465-300
12	Connector	71-112-457-001	30	Plate	71-208-645-001
13	Spring	71-113-600-001	31	Plate	71-208-645-002
14	Plate	71-114-173-001	32	Stud & Support Ass'y.	71-302-190-504*
15	Plate	71-114-173-002			71-302-190-503**
16	Indicator	71-167-932-001	33	Retaining Ring	00-673-165-050
17	Cover	72-220-078-001	34	Spacer	71-112-447-001*
18	Pin	71-164-062-010			
19	Cover	18-721-435-001			
20	Clip	00-691-189-267			

* Used on 1200 Amp Units

** Used on 3000 Amp Units

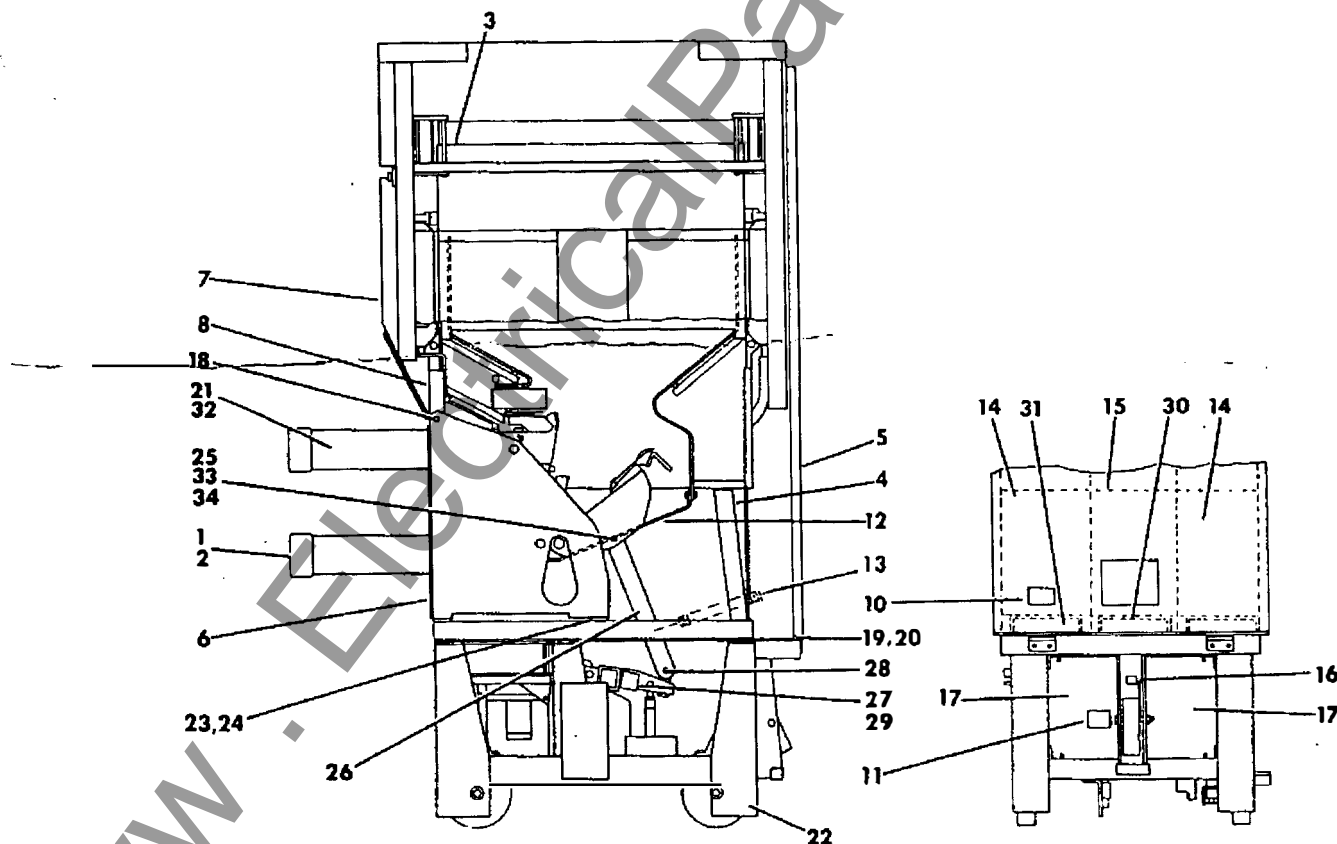


Figure 1. Solenoid Operated Breaker Assembly (72-422-923-601)* (72-422-923-603)**
and Solenoid Operated Basic Breaker (18-466-958-501)* (18-466-958-503)**

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ITEM	DESCRIPTION	PART NUMBER
1	Stud & Contact Assembly	71-401-169-513*
		71-401-169-515**
2	Main Contact and Block	71-302-186-504*
		71-302-186-503**
3	Arc Runner	71-111-448-001
4	Arc Runner	71-111-447-001
5	Insulation	71-111-449-001
6	Nozzle	71-302-801-001
7	Side Plate	71-302-192-001
8	Plate	71-206-886-002*
		71-206-886-001**
9	Support	71-110-276-001
10	Stud	71-110-277-001
11	Rod	71-110-282-001
12	Rod	71-166-194-020
13	Washer	71-916-992-002

* Used on 1200 Amp Units

** Used on 3000 Amp Units

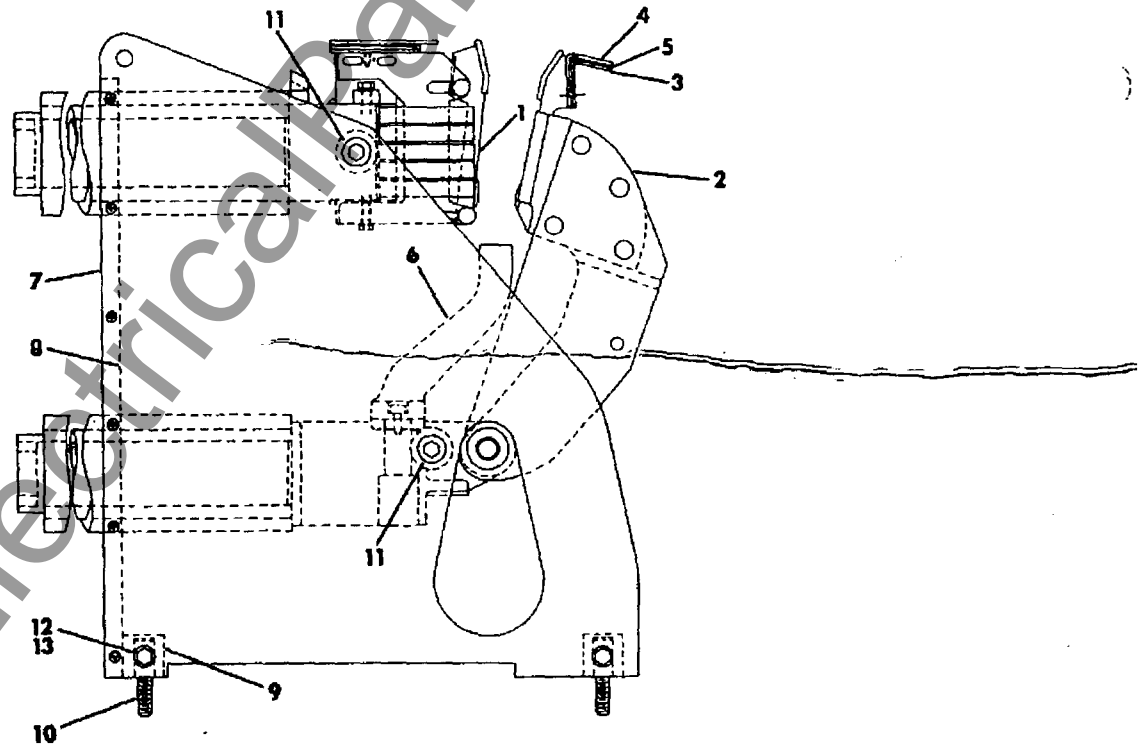


Figure 2. Stud and Support Assembly (71-302-190-504)* (71-302-190-503)**

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ITEM	DESCRIPTION	PART NUMBER	ITEM	DESCRIPTION	PART NUMBER
1	Stud & Block	71-302-185-501*	12	Spring	71-204-606-019
1	Stud & Block (Upper)	71-302-339-501**	13	Spring	71-204-604-028
2	Contact Finger Ass'y.	71-111-458-501	14	Block & Tube Ass'y.	71-111-473-501
3	Arcing Contact	71-113-148-502	15	Tube	71-111-486-001
4	Bolt	71-111-464-501	16	Spacer	71-111-490-001
5	Runner Ass'y.	18-657-380-504	17	Bumper	71-115-113-001
6	Block	71-207-268-002	18	Bumper	71-111-492-002
7	Block	71-207-269-002	19	Pin	71-111-494-001
8	Tube	71-111-451-001*	20	Bumper	71-112-832-002
8	Tube	71-207-878-001**	21	Comp. Spring	71-204-605-021
9	Plate	71-209-084-001			
10	Spring	71-204-605-012			
11	Spring	71-204-604-027			

* Used on 1200 Amp Units
** Used on 3000 Amp Units

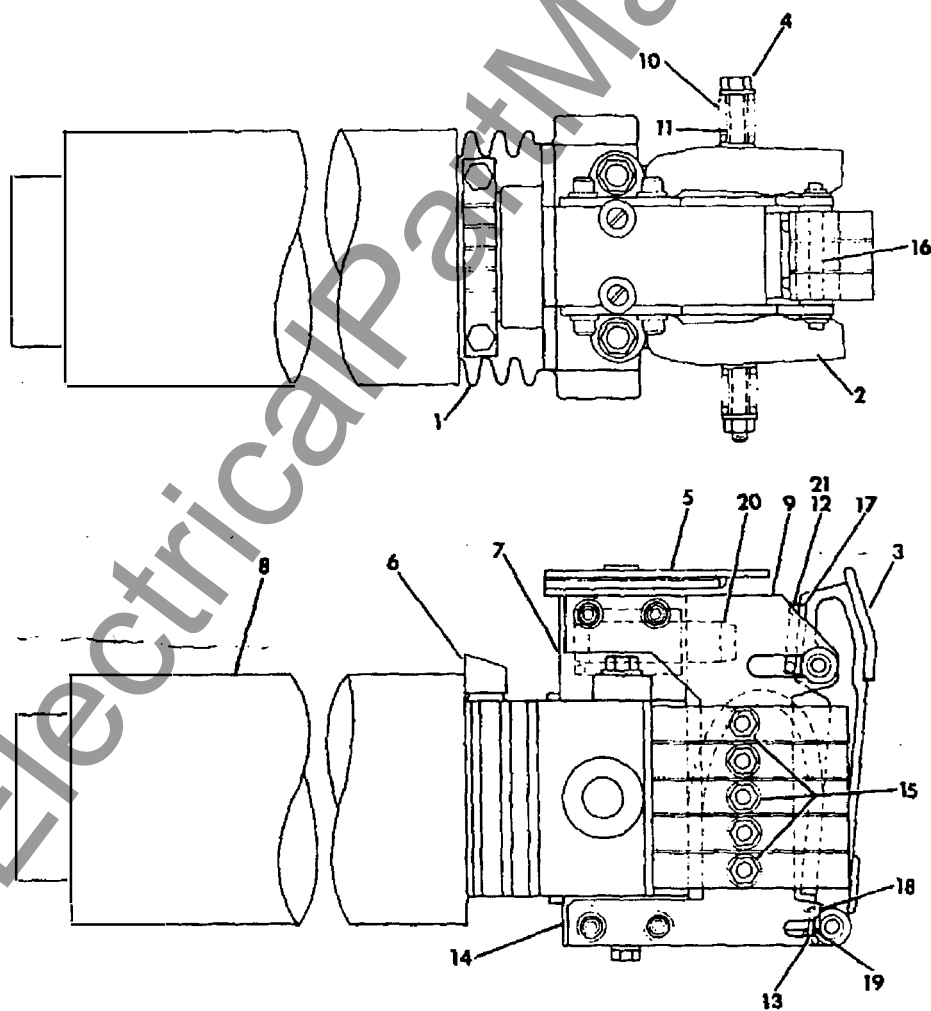


Figure 3. Stud and Contact Assembly (71-401-169-513)* (71-401-169-515)**

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ITEM	DESCRIPTION	PART NUMBER
1	Stud and Block	71-302-187-501*
1	Stud and Block - Lower	71-302-338-501**
2	Disconnect Arm - L. H.	71-207-881-501**
3	Disconnect Arm - R. H.	71-207-881-502**
4	Contact	71-207-476-504
5	Guide	71-111-444-001
6	Screw	71-111-445-001
7	Washer	71-111-446-001
8	Nut	71-161-974-001
9	Tube	71-111-451-001*
9	Tube	71-207-878-001**
10	Spring	71-204-605-013
11	Disconnect Arm - L. H.	71-302-189-001
12	Disconnect Arm - R. H.	71-302-189-002

* Used on 1200 Amp Units

** Used on 3000 Amp Units

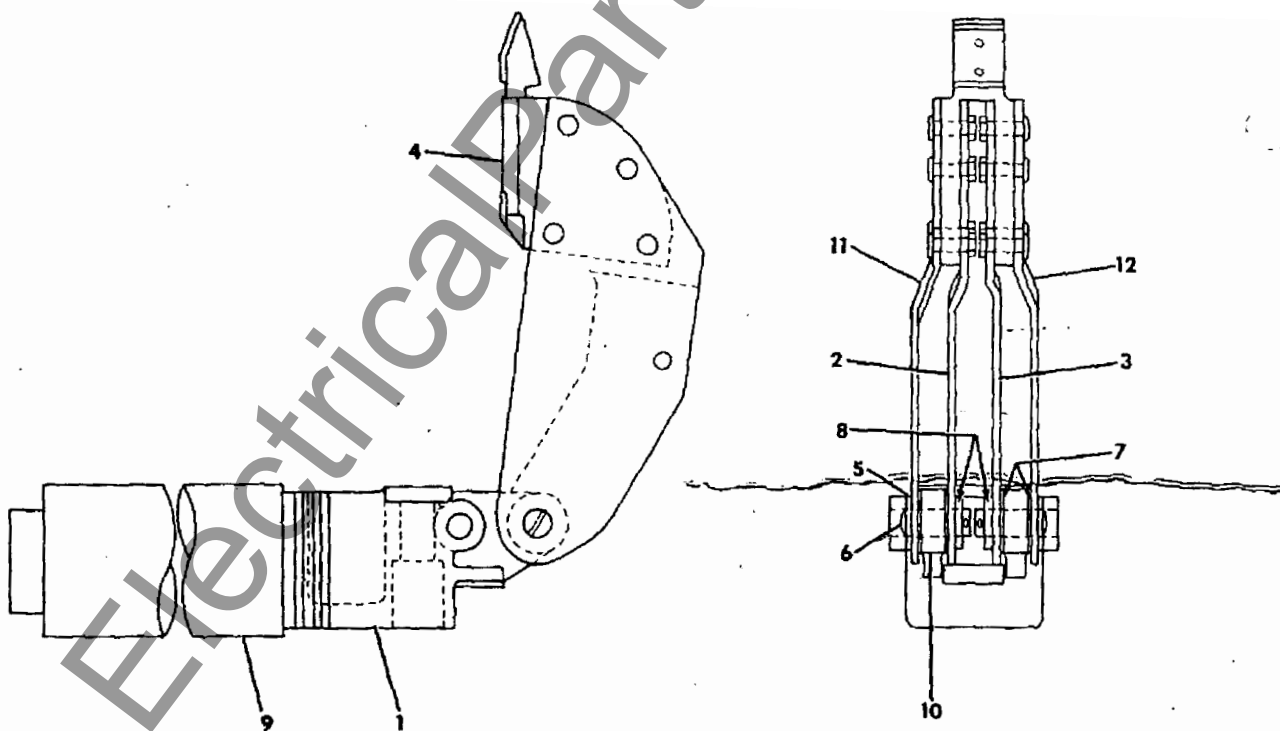


Figure 4. Main Contact Block Assembly (71-302-186-504)* (71-302-186-503)**

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ITEM	DESCRIPTION	PART NUMBER	ITEM	DESCRIPTION	PART NUMBER
1	Arc Chute Ass'y.	71-401-171-503	9	Connector	71-112-386-501
2	Tube	71-302-467-502	10	Plate	71-207-564-001
3	Barrier Stack Ass'y.	71-302-776-501	11	Plate	71-111-635-001
4	Plate	71-112-777-501	12	Plate	71-112-247-001
5	Magnetic Circuit	71-207-572-501	13	Plate	71-112-781-001
6	Coil Assembly	71-207-548-502	14	Rod	71-110-052-002
7	Connector-L. H.	71-207-560-501	15	Tube	71-172-168-006
8	Connector-R. H.	71-207-560-502	16	Clip	18-657-460-108

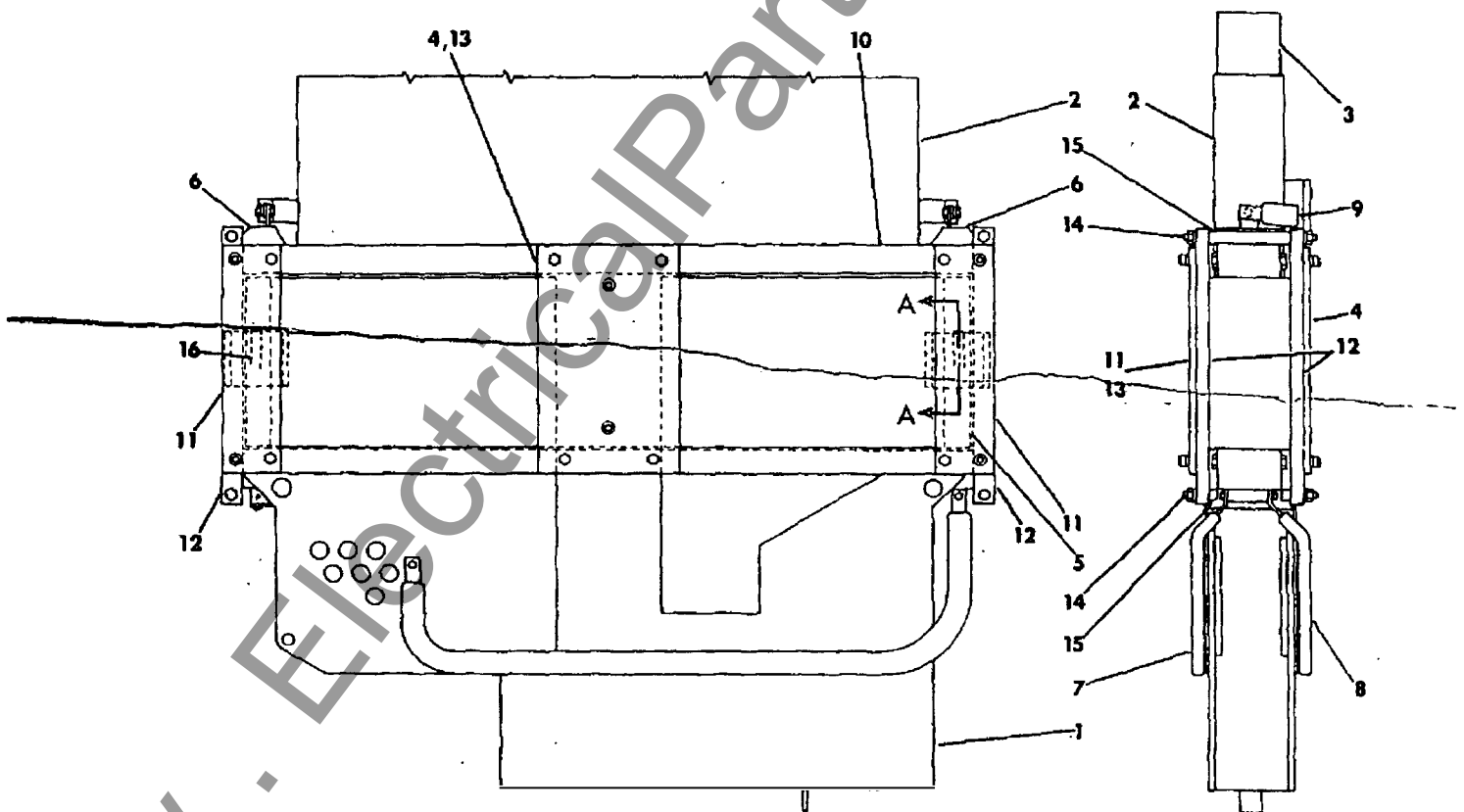
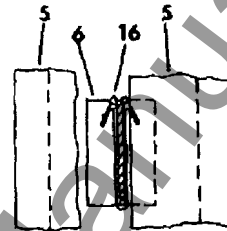


Figure 5. Arc Chute Assembly (71-500-326-502)

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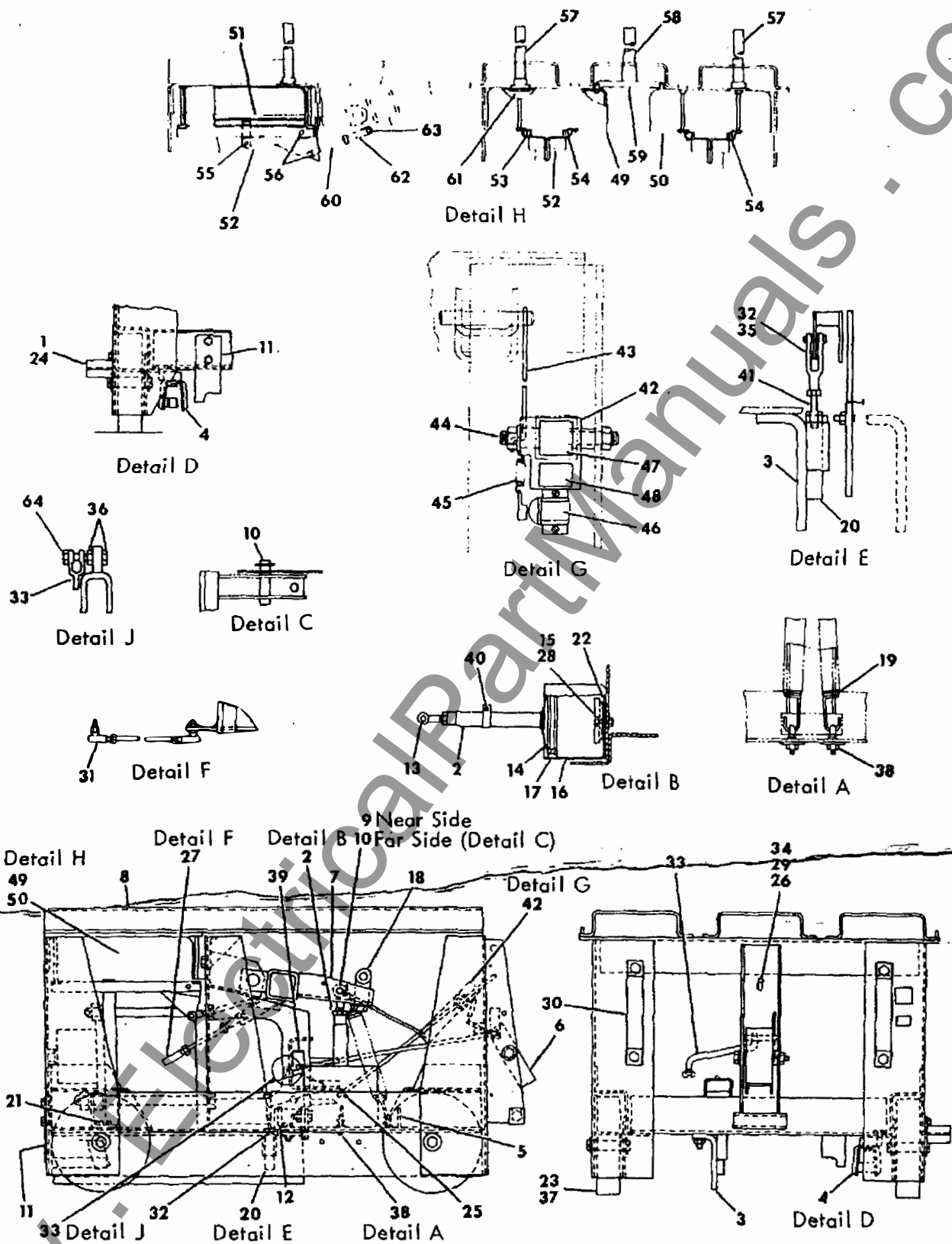


Figure 6. Solenoid Operator and Frame Assembly
(72-420-021-501) Sheet 1 of 2

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ITEM	DESCRIPTION	PART NUMBER	ITEM	DESCRIPTION	PART NUMBER
1	Guide	71-113-437-501	33	Yoke End Adj.	00-691-701-903
2	Piston	71-114-161-504	34	Ratchet Plate	00-633-182-060
3	Guide	71-114-177-501	35	Clevis Pin	00-957-211-901
4	Ground Contact	71-114-787-502	36	Stover Nut	15-171-063-011
5	Support	71-115-238-501	37	Wheel	18-657-411-257
6	Foot Lever	72-220-080-501	38	Eye End	00-691-713-103
7	Operator	72-320-036-501	39	Terminal Block	00-857-036-013
8	Frame	72-420-027-501	40	Clamp	00-855-796-021
9	Pin	71-104-754-035	41	Eye End	00-691-713-102
10	Pin	71-104-754-036	42	Indicator Arm	71-114-214-001
11	Stop	71-113-478-001	43	Link	71-114-215-002
12	Spring	71-113-502-001	44	Shoulder Stud	71-108-105-003
13	Rod End	71-113-541-002	45	Spring	71-140-615-001
14	Spring	71-113-621-001	46	Operating Counter	71-110-940-002
15	Bumper	71-114-154-001	47	Indicator	71-101-248-001
16	Cylinder	71-114-155-002	48	Indicator	71-101-247-001
17	Packing	71-114-156-001	49	Puffer	71-208-648-001
18	Connector	71-114-182-002	50	Puffer	71-208-648-002
19	Spring	71-114-733-001	51	Pan	71-114-193-501
20	Plunger	71-113-442-001	52	Crank	71-208-642-501
21	Angle	71-115-224-001	53	Angle	71-114-192-001
22	Valve Disc	71-115-244-001	54	Angle	71-114-192-002
23	Pin	71-115-254-003	55	Pin	71-104-402-016
24	Shim	71-115-544-001	56	Pin	71-115-251-016
25	Guide	71-117-815-001	57	Tube	71-111-413-502
26	Spring	71-140-125-001	58	Tube	71-111-413-503
27	Rod	71-140-147-031	59	Connector	71-208-650-002
28	Insulation	71-176-201-003	60	Yoke	71-112-934-002
29	Pin	71-915-161-035	61	Grommet	15-837-659-002
30	Handle	15-171-175-001	62	Yoke End	00-691-701-902
31	Ball Joint	00-833-573-003	63	Clevis Pin	00-957-211-902
32	Yoke End	00-691-701-901	64	Hx. Hd. Capscrew	00-611-315-474

Figure 6. Solenoid Operator and Frame Assembly
(72-420-021-501) Sheet 2 of 2

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ITEM	DESCRIPTION	PART NUMBER	ITEM	DESCRIPTION	PART NUMBER
1	Arm	71-302-796-503	28	Armature	71-115-218-001
2	Latch	71-100-264-501	29	Tube	71-115-973-003
3	Link Assembly	71-101-258-502	30	Spring	71-140-076-001
4	Arm	71-101-269-504	31	Washer	71-140-422-035
5	Tube	71-114-775-503	32	Washer	71-152-809-027
6	Plunger Assembly	71-208-445-503	33	Washer	71-158-647-013
7	Plate	71-209-652-501	34	Pin	71-161-921-008
8	Frame	71-302-967-502	35	Washer	71-170-538-001
9	Lever	72-120-394-502	36	Washer	71-173-732-004
10	Washer	71-024-132-039	37	Washer	71-922-850-001
11	Cap	71-100-213-001	38	Spring	71-204-606-020
12	Setscrew	71-100-356-001	39	Cam	72-120-007-001
13	Pin	71-100-377-001	40	Pin	72-120-194-001
14	Pin	71-100-382-001	41	Rod	72-120-329-001
15	Pin	71-100-391-001	42	Roller Follower	15-813-073-001
16	Pin	71-100-929-005	43	Needle Bearing	00-813-119-814
17	Washer	71-102-710-001	44	Nyliner	00-815-279-020
18	Rod	71-107-949-005	45	Pin	71-100-382-002
19	Shim	71-109-649-001	46	Link	71-113-416-001
20	Shim	71-109-649-002	47	Spring	15-837-321-002
21	Stop	71-109-654-001	48	Bracket	72-120-195-001
22	Washer	71-111-395-001	49	Limit Switch	00-871-383-403
23	Spring	71-112-627-001	50	Micro Switch	00-871-351-107
24	Latch	71-113-355-001	51	Bracket	72-120-193-001
25	Link	71-113-413-001	52	Shield	71-108-526-001
26	Spring	71-113-503-001	53	Lever	72-120-189-002
27	Washer	71-100-278-001	54	Spacer	72-120-198-001

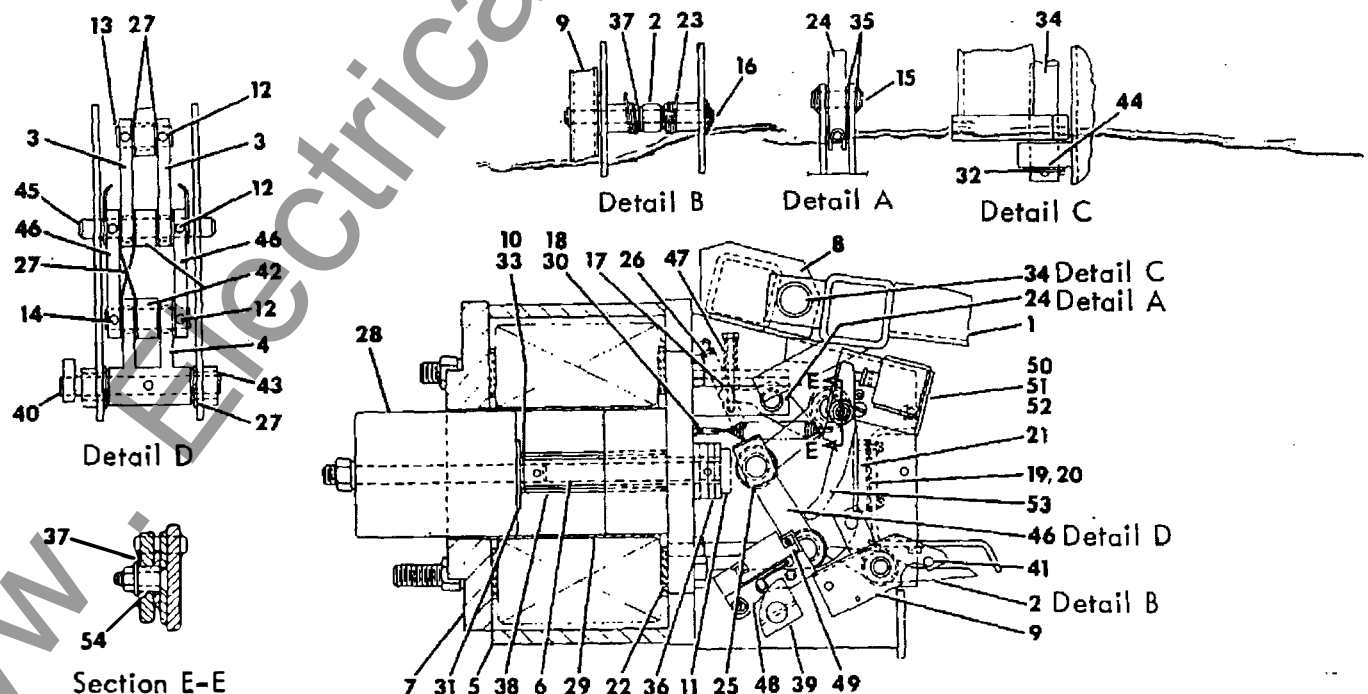


Figure 7. Solenoid Operator Assembly (72-320-036-501)

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ITEM	DESCRIPTION	PART NUMBER	ITEM	DESCRIPTION	PART NUMBER
1	Contact Finger Ass'y.	71-201-738-502*	23	Clip	00-691-189-267
2	Primary Disc Ass'y.	71-240-442-501**	24	Dust Cover	18-387-138-003
3	Arc Chute Support	71-114-204-501	25	Basic Breaker	18-466-957-501*
4	Panel	71-206-907-505		(Includes items 26	18-466-957-503**
5	Barrier	71-208-182-501		thru 38 below)	
6	Inter-Phase Insulation	71-401-299-503	26	Frame & Operator	72-420-084-501
7	Arc Chute	71-500-326-502	27	Spacer	71-112-447-001*
8	Label	71-108-145-001	28	Shim	71-110-641-001
9	Indicator	71-111-259-001	29	Shim	71-110-641-002
10	Connector	71-112-457-001	30	Pin	71-111-640-001
11	Spring	71-113-600-001	31	Link	71-113-440-002
12	Plate	71-114-173-001	32	Shim	71-113-679-001
13	Plate	71-114-173-002	33	Angle	71-113-680-001
14	Label	71-117-507-001	34	Pin	71-164-062-013
15	Indicator	71-167-932-001	35	Plate	71-208-645-001
16	Strap	71-208-646-001	36	Plate	71-208-645-002
17	Cover	72-220-078-001	37	Retaining Ring	00-673-165-050
18	Cover	72-220-078-002	38	Stud & Support Ass'y.	71-302-190-504*
19	Label	15-171-083-030			71-302-190-503**
20	Label	71-114-294-001			
21	Pin	71-164-062-010			
22	Cover	18-721-435-001			

* Used on 1200 Amp Units

** Used on 3000 Amp Units

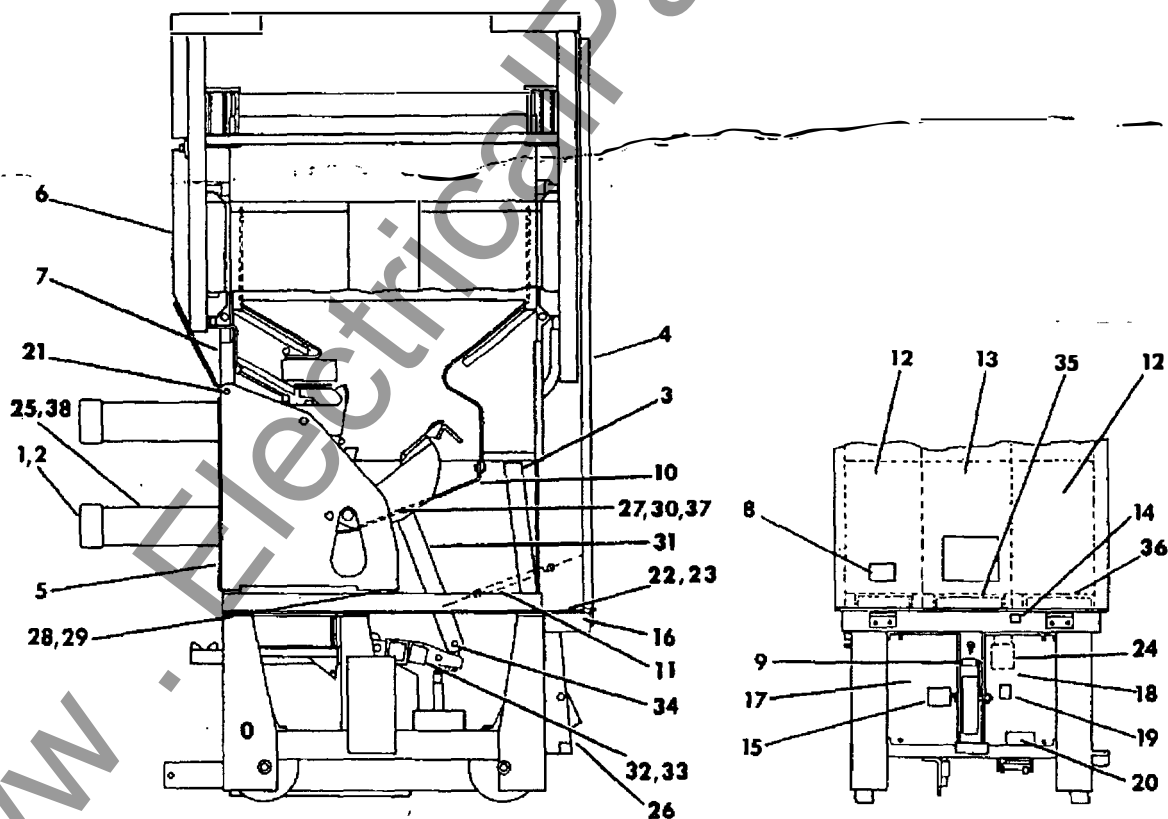


Figure 8. Stored Energy Breaker Assembly (72-422-922-601)* (72-422-922-603)**
and Stored Energy Basic Breaker (18-466-957-501)* (18-466-957-503)**

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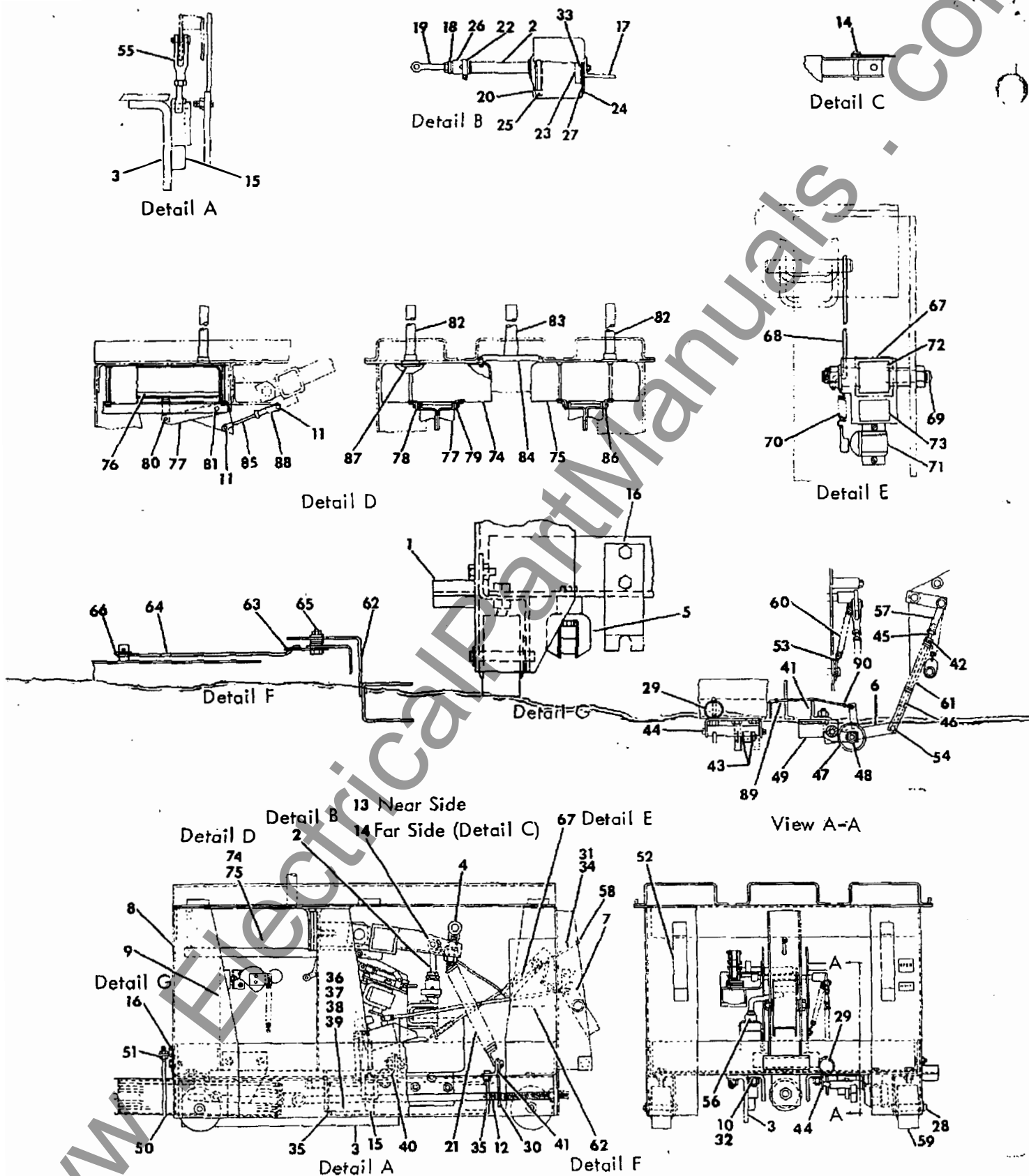


Figure 10. Stored Energy Operator Assembly (72-420-081-503) Sheet 1 of 2

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ITEM	DESCRIPTION	PART NUMBER	ITEM	DESCRIPTION	PART NUMBER
1	Guide Assembly	71-113-437-501	46	Clevis	72-120-704-001
2	Piston Assembly	71-114-161-501	47	Roller	72-120-706-001
3	Guide Assembly	71-114-177-501	48	Hex Aircraft Bolt	00-611-343-030
4	Connector Assembly	71-114-181-501	49	Bracket	72-120-708-001
5	Ground Contact Ass'y.	71-114-787-502	50	U-Bolt	72-120-380-001
6	Crank Assembly	72-120-699-501	51	Angle	72-120-381-001
7	Foot Lever Assembly	72-220-080-501	52	Handle	72-120-391-001
8	Frame Assembly	72-420-027-501	53	Link	72-120-709-001
9	Operator Assembly	72-420-081-503	54	Pin	72-120-723-003
10	Washer	71-024-132-044	55	Yoke End	00-691-701-901
11	Clevis Pin	00-957-211-902	56	Yoke End	00-691-701-903
12	Tubing	71-103-411-008	57	Yoke End	00-691-701-902
13	Pin	71-104-754-035	58	Cap Rating Plate	00-633-182-060
14	Pin	71-104-754-036	59	Wheel	18-657-411-257
15	Plunger	71-113-442-001	60	External Spring	15-837-455-002
16	Stop	71-113-478-001	61	Spring	15-837-321-003
17	Angle	71-113-530-001	62	Plate	71-113-349-001
18	Plug	71-113-538-001	63	Indicator Assembly	71-208-691-501
19	Rod End	71-113-541-001	64	Rod	71-113-457-001
20	Spring	71-113-621-001	65	Stud	71-113-674-001
21	Spring	71-113-669-001	66	Washer	71-018-726-001
22	Clamp	71-113-995-001	67	Indicator Arm	71-114-214-001
23	Bumper	71-114-154-001	68	Link	71-114-215-001
24	Cylinder	71-114-155-002	69	Shoulder Stud	71-108-105-003
25	Packing	71-114-156-001	70	Spring	71-140-615-001
26	Coupling	71-114-157-001	71	Operation Counter	71-110-940-002
27	Valve Disc	71-115-244-001	72	Indicator	71-101-248-001
28	Pin	71-115-254-003	73	Indicator	71-101-247-001
29	Ring	71-116-131-001	74	Puffer	72-208-648-001
30	Plate	71-116-514-001	75	Puffer	71-208-648-002
31	Spring	71-140-125-001	76	Pan Assembly	71-114-193-501
32	Washer	71-158-647-016	77	Crank Assembly	71-208-642-501
33	Insulation	71-176-201-003	78	Angle	71-114-192-001
34	Pin	71-915-161-035	79	Angle	71-114-192-002
35	Washer	71-921-604-005	80	Pin	71-104-402-016
36	Spring	71-204-606-022	81	Pin	71-115-251-016
37	Spring	71-204-606-023	82	Tube Assembly	71-111-413-502
38	Spring	71-204-607-009	83	Tube Assembly	71-111-413-503
39	Spring	71-204-608-004	84	Connector	71-208-650-002
40	Angle	71-208-698-001	85	Yoke	71-112-934-002
41	Angle	71-208-699-002	86	Angle	71-114-192-003
42	Washer	71-101-488-001	87	Grommet	15-837-659-002
43	Washer	71-152-809-002	88	Yoke End	00-691-701-902
44	Pin	72-120-199-006	89	Wire Rope	00-573-897-022
45	Rod	72-120-703-001	90	Wire Joint	00-851-795-001

Figure 9. Stored Energy Operator and Frame (72-420-084-501) Sheet 2 of 2

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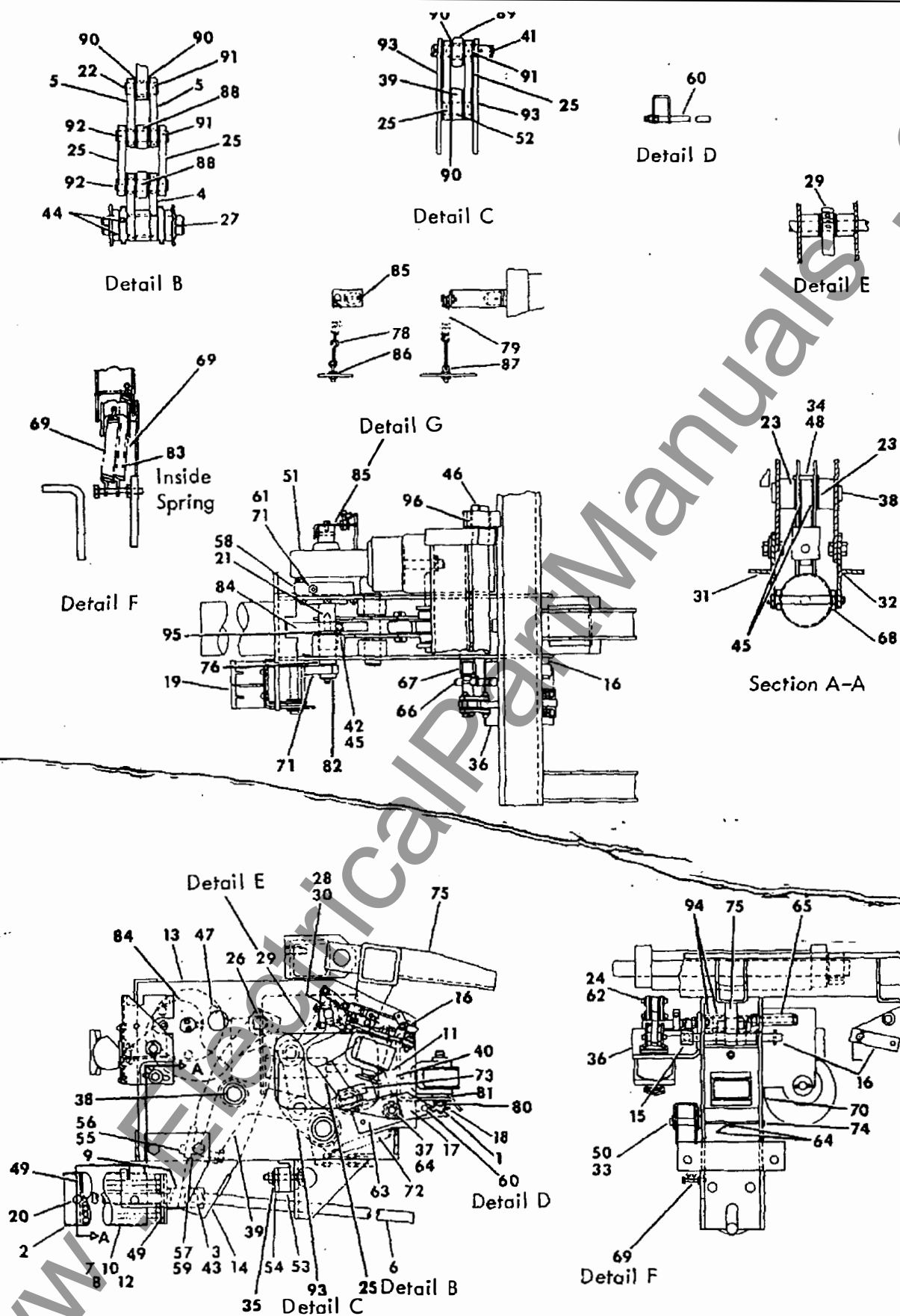


Figure 10. Stored Energy Operator Assembly (72-420-081-503) Sheet 1 of 2

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ITEM	DESCRIPTION	PART NUMBER	ITEM	DESCRIPTION	PART NUMBER
1	Latch Assembly	72-120-047-501	49	Washer	71-921-604-005
2	Tube Assembly	71-114-922-502	50	Washer	71-922-850-001
3	Pin	71-104-935-020	51	Gear Assembly	71-210-046-016
4	Link Assembly	71-115-913-502	52	Pin	72-120-041-001
5	Link Assembly	71-101-258-503	53	Bumper	72-120-113-002
6	Rod End	71-114-024-001	54	Link	72-120-114-001
7	Spring	71-204-606-022	55	Screw	72-120-137-001
8	Spring	71-204-606-023	56	Spacer	72-120-138-001
9	Rod End Assembly	71-114-035-501	57	Spacer	72-120-139-001
10	Spring	71-204-607-009	58	Bar	72-120-140-001
11	Stop Assembly	71-116-177-502	59	Spacer	72-120-179-001
12	Spring	71-204-608-004	60	Rod	72-120-329-001
13	Frame Assembly	71-401-398-503	61	Jam Nut	00-631-171-106
14	Arm Assembly	18-718-952-502	62	Washer	71-152-809-033
15	Rod End	18-657-460-112	63	Arm	72-120-399-001
16	Shaft	18-657-460-110	64	Washer	71-171-059-001
17	Lever Assembly	72-120-568-502	65	Spacer	72-110-390-009
18	Bumper Plate Assy.	72-120-152-501	66	Crank	72-120-710-001
19	Switch Assembly	18-657-372-511	67	Torsion Spring	71-114-133-001
20	Pin	71-018-299-001	68	Washer	71-024-132-044
21	Key	71-018-485-005	69	Spring	00-837-455-012
22	Pin	71-100-377-001	70	Link	72-120-709-001
23	Washer	71-101-009-001	71	Set Screw	00-617-025-476
24	Pin	72-120-723-001	72	Spring	00-837-455-012
25	Link	71-113-416-001	73	Switch	15-171-044-004
26	Pin	71-114-019-002	74	Retaining Ring	00-673-165-050
27	Pin	71-114-044-002	75	Arm Assembly	71-302-796-503
28	Pin	72-120-434-091	76	Spacer	72-120-061-001
29	Latch Assembly	72-120-486-501	77	Cam	71-118-392-001
30	Crank	72-120-724-001	78	Link	72-120-087-001
31	Bracket	71-114-924-001	79	Spring	71-113-503-001
32	Bracket	71-114-924-002	80	Screw	72-120-141-001
33	Pin	71-114-949-001	81	Shim	71-105-138-001
34	Tubing	71-115-330-005	82	Spacer	71-114-951-002
35	Spacer	71-116-015-003	83	Round	71-104-107-013
36	Lock Assembly	72-220-134-502	84	Cam	72-220-044-001
37	Spring	71-116-218-001	85	Arm Assembly	72-120-375-501
38	Pin	71-116-484-001	86	Spacer	71-173-709-016
39	Arm	71-116-793-001	87	Eye End	00-691-713-102
40	Shim	71-116-807-001	88	Roller Follower	15-813-073-001
41	Pin	71-118-093-001	89	Roller Follower	15-813-073-002
42	Washer	71-104-422-002	90	Washer	71-100-278-001
43	Washer	71-140-422-038	91	Set Screw	71-100-356-001
44	Washer	71-152-809-025	92	Pin	71-100-382-001
45	Washer	71-152-809-027	93	Link	72-220-133-001
46	Pin	71-161-921-004	94	Needle Bearing	00-813-119-814
47	Washer	71-170-127-001	95	Bearing	00-815-021-101
48	Tubing	71-172-303-008	96	Nyliner	00-815-279-020

Figure 10. Stored Energy Operator Assembly (72-420-081-503) Sheet 2 of 2

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