



Operator's Manuals

[Vision 17B/BT](#)

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CLARKE TECHNOLOGY
Vision 17B
Machine Accessories 6/02

Accessories:

<u>Part No.</u>	<u>Description</u>	
51436B	Brush, Polypropylene	
53126B	Pad Driver	
50527A	Big Mouth Base	
56927A	Big Mouth Retainer	
50477A	Clutch Plate for Pad/Brush	
962819	Clutch Plate Screws	
51437B	Nylon Scrub Brush .028 Dia. Bristles	
51439B	Grit Scrub Brush Assembly	
682408	Hose Connector - connects 1½" diameter hose to machine	
674114	10' x 1½" red spiral lock deluxe hose	
639804	1½" double curved aluminum wand	
638828	Aluminum 14" squeegee pick up tool	
638856	Aluminum combination scrubbing brush & squeegee pick-up tool	
51469B	Nylon Scrub Brush .016 Dia. Bristles	
51481A	Grit-Lite Brush◆	
10773A	Kit, Parking Brake	
14661B	Standard Battery Cable Kit	
18800A	Squeegee Asm.	NOTE: ◆ indicates that a change has occurred since the last publication of this manual.

PADS BY CASE

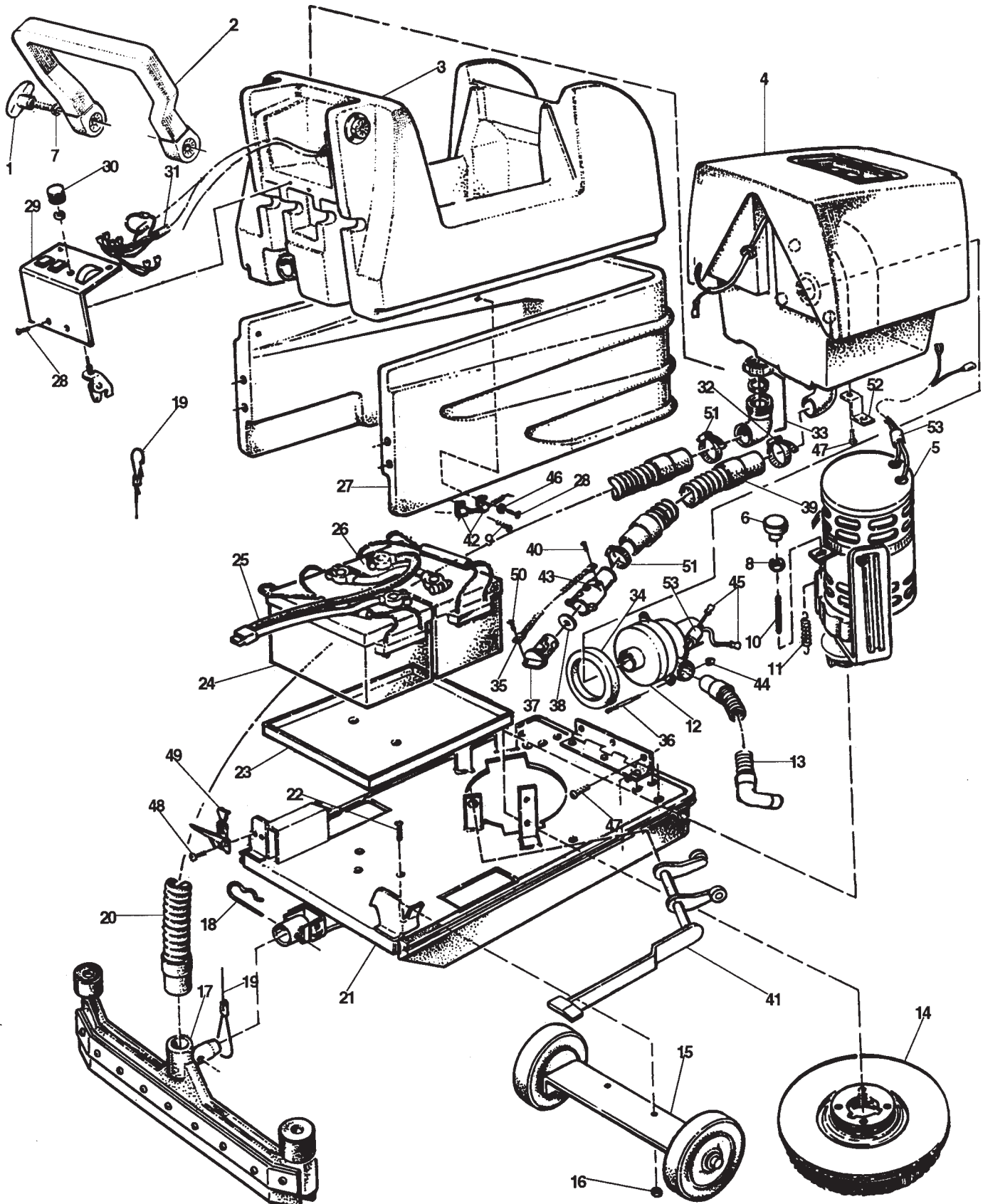
<u>Color</u>	<u>Vision 17</u>	<u>Color</u>	<u>Vision 17</u>
Yellow	979169	Green	976157
White	976052	Brown	976055
Red	976053	Black	976158
Blue	976054		



Vision 17B/BT
Section II
Parts and Service Manual

(78454B)

CLARKE TECHNOLOGY
Vision 17B
Machine #00380B, 24V Battery, Machine Assembly - 3/00



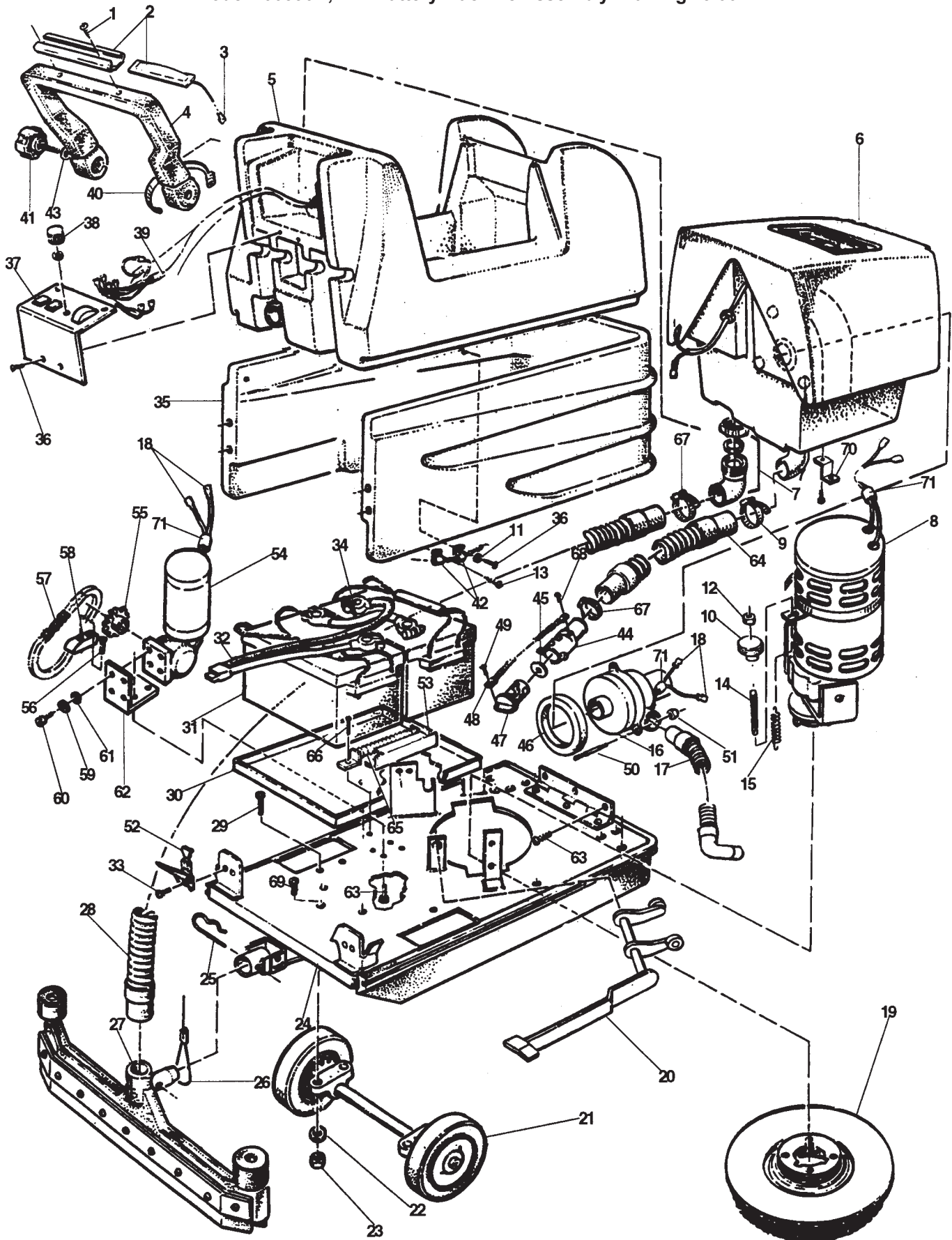
CLARKE TECHNOLOGY
Vision 17B-Battery Model 24V Battery
Machine Assembly Parts List - 1/02

Ref	Part No.	Description	Qty
1	55531A	Knob, Handle	2
2	34804A	Handle	1
3	Page 36	ASM Solution Tank	1
4	Page 37	ASM Recovery Tank	1
5	Page 32	ASM Brush Motor	1
6	65300A	Knob	1
7	980431	Washer ¼ - 7/8 S.S.	4
8	81111A	Nut 3/8 X 16	2
9	962981	Screw	1
10	68004A	Stud	1
11	818381	Spring	1
12	44917A	Motor, Vacuum	1
13	30448A	Hose, Exhaust Vacuum	1
14	Page 21	Brush or Pad Driver	1
15	Page 30	Asm. Non Traverse	1
16	920110	Nut 5/16 - 18 Elastic Stop	2
17	Page 37	Asm. Squeegee	1
18	66515A	Pin Locking	1
19	61664A	Cable, Squeegee	1
20	30407B	Hose, Squeegee	1
21	Page 33	Asm. Mainframe Weldment	1
22	84238A	Screw, 5/16-18 x 3/4	3
23	39004A	Battery, Tray	1
24	Page 20	Battery	2
25	Page 20	Cable, Battery	1
26	Page 20	Cable, Battery Series	1
27	Page 40	Asm. Support Tank	1
28	84237A	Screw 10-32 x ½ Pan Hd	6
29	Page 35	Asm. Control Pad	1
30	55502A	Knob-Solution Control	1
31	49728A	Harness, Control	Ref
32	752020	Clamp, Hose	1
33	53630A	Elbow, Recovery	1
34	643418	Gasket Vacuum Motor	1
35	52206A	Chain-Cover	1
36	58533A	Spacer, Vac Motor	3
37	833901	Handle, Drain Valve	1
38	833407	Gasket, Drain	1
39	30415A	Hose Recovery Drain	1
40	962943	Screw	1
41	Page 32	Asm. Lift Brush	1
42	832102	Clamp, Solution Cable	2
43	839401	Valve, Drain	1
44	81104A	Nut, ¼ - 20 Nylock	6
45	47905A	Terminal	2
46	87026A	Washer	2
47	85395A	Screw ¼ -20 x ½	7
48	85509A	Screw 6-32	4
49	755161	Latch	2
50	962987	Screw	1
51	832002	Clamp, Plastic	1
52	61224A	Bracket, Recovery	2
53	47202A	Suppressor, EMI	2
NI	699202	Wire Ties	6
NI	77049A	Label, Squeegee Lift	1
NI	77053A	Tag, Instruction	1
NI	77077A	Plate, Warning Head	1
NI	77233A	Label, C. E.	1

CLARKE TECHNOLOGY

Vision17 BT

Model #00390A, 24V Battery Machine Assembly Drawing - 3/00

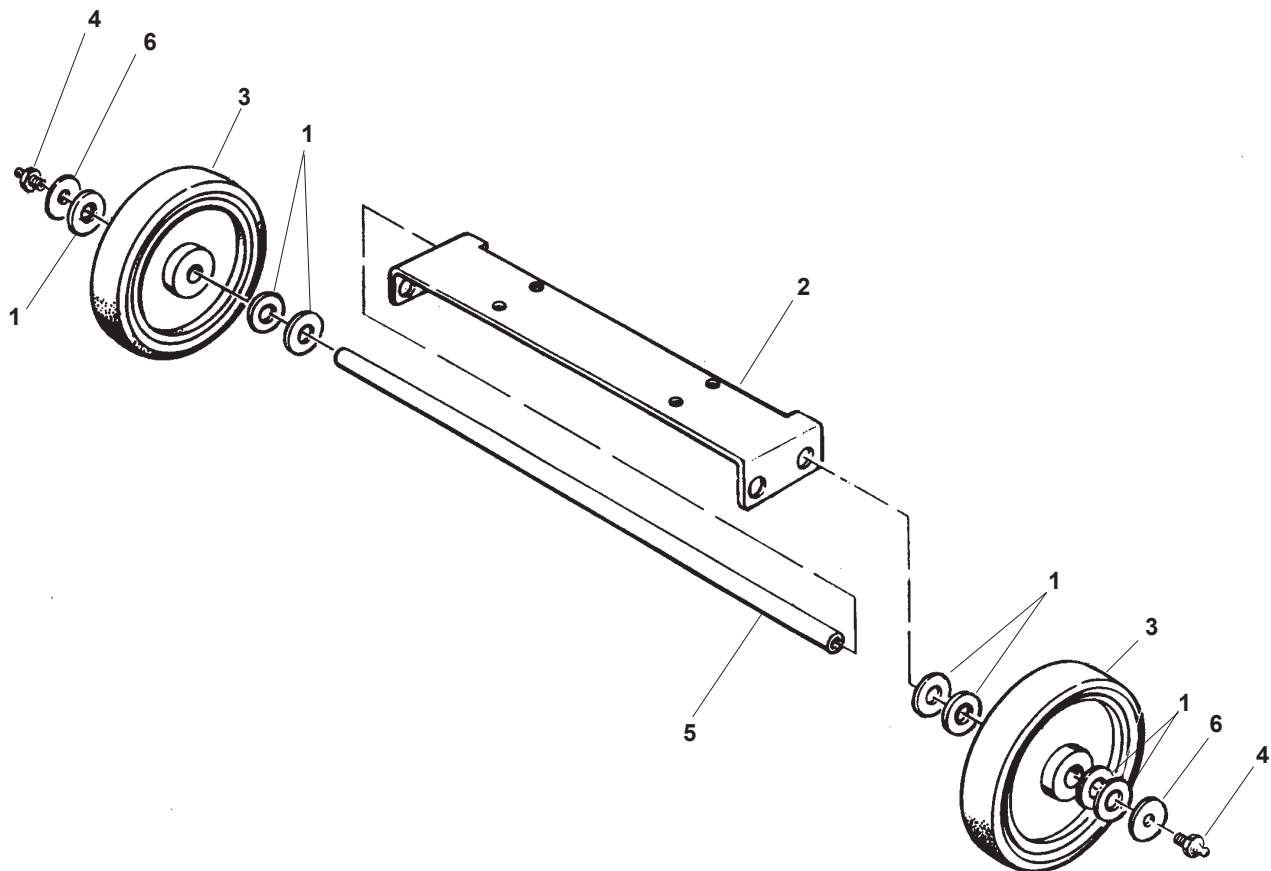


CLARKE TECHNOLOGY
Vision 17 - BT Model 24V Battery
Machine Assembly Parts List - 1/02

Ref	Part No.	Description	Qty
1	962738	6-32 x 5/8 Screw	2
2	47377A	Switch, Traverse	1
3	47708A	Terminal	2
4	34806A	Handle, Control	1
5	Page 38	ASM, Solution Tank	1
6	Page 39	ASM, Recovery Tank	1
7	53630A	Elbow, Recovery	1
8	Page 34	ASM, Brush Motor	1
9	752020	Clamp Hose	1
10	65300A	Knob	1
11	87026A	Washer	1
12	81111A	Nut, 3/8 x 16	1
13	962981	Screw	1
14	68004A	Stud	1
15	818381	Spring	1
16	44917A	Motor, Vacuum	1
17	30448A	Hose, Exhaust Vacuum	1
18	47905A	Terminal	2
19	Page 21	Brush or Pad Driver	1
20	Page 32	Asm, Brush Lift	1
21	Page 31	ASM, Traverse Axle	1
22	87027A	Washer 5/16 S.S. Flat	4
23	920110	Nut 5/16 - 18 Elastic	4
24	Page 33	ASM, Main Frame	1
25	66515A	Pin, Locking	1
26	61664A	Cable, Squeegee	1
27	Page 37	ASM, Squeegee	1
28	30407B	Hose, Squeegee	1
29	84239A	Screw, 5/16 Flat	4
30	39004A	Battery, Tray	1
31	Page 20	Battery	2
32	Page 20	Cable, Battery	1
33	85509A	Screw 6-32	4
34	Page 20	Cable, Battery Series	1
35	Page 41	ASM, Tank Support	1
36	84237A	Screw 10 -32 x 1/2 Pan	6
37	Page 36	ASM, Control Panel	1
38	55502A	Knob, Solution Control	1
39	49730A	Harness Control	1

Ref	Part No.	Description	Qty
40	58901A	Tie, Wire	2
41	55531A	Knob, Handle	2
42	832102	Clamp, Solution Cable	2
43	980413	Washer	4
44	839401	Valve, Drain	1
45	833407	Gasket, Drain	1
46	643418	Gasket, Motor Vacuum	1
47	833901	Handle, Drain Valve	1
48	52206A	Chain, Cover	1
49	962987	Screw	1
50	58533A	Spacer, Motor Vac	
51	81104A	Nut, 1/4 -20 Nylock	6
52	755161	Latch	2
53	62644A	Cover, Resistor	1
54	45031C	Motor, Traverse	1
55	58707A	Sprocket	1
56	84233A	Screw	2
57	52208A	Chain #35	1
58	37014A	Pad, Chain Tension	1
59	980657	Washer 1/4 Lock	4
60	85391A	Screw 1/4 -20 x 5/8 S.S.	4
61	980646	Washer	4
62	61261A	Bracket, Traverse Motor	1
63	85395A	Screw 1/4 -20 x 1/2 S.S.	9
64	30415A	Hose, Drain	1
65	46506A	Resistor	1
66	85519A	Screw 1/4 - 20	2
67	832002	Clamp, Plastic	2
68	962943	Screw	1
69	84238A	Screw 5/16 - 18 x 3/4	1
70	61244A	Bracket, Recovery	2
71	47202A	Suppressor, EMI	3
NI	699202	Wire Tie	6
NI	77049A	Label, Squeegee Lift	1
NI	77053A	Tag, Instruction	1
NI	77076A	Plate, Warning (Hands)	1
NI	77077A	Plate, Warning (Head)	1
NI	77233A	Label, C. E.	1

CLARKETECHNOLOGY
Vision 17B
ASM, Non Traverse Axle
Drawing & Parts List 11/98
Form #10510A

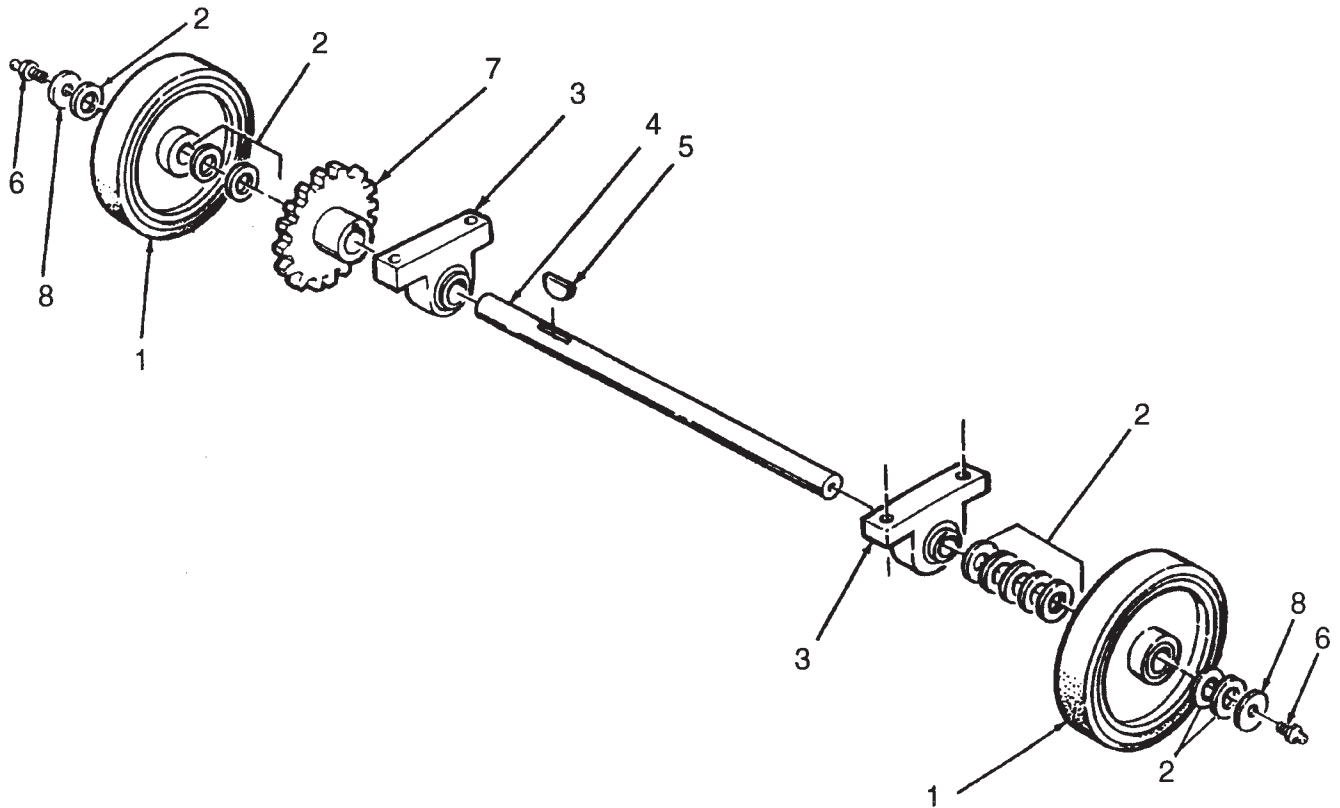


Ref	Part No.	Description	Qty	
1	87613A	Washer, Nylon 5/8	7*	Nominal
2	61247A	Bracket, Axle	1	
3	59936C	Wheel	2	
4	54014A	Fitting, Grease, 1/4"-20	2	
5	60196A	Shaft	1	
6	87039A	Washer, Fender 1/4" SS	2	

NOTE: Place washers as required to center the wheels
 (Number of washers may vary)

NOTE: Grease wheels once a week.

CLARKE TECHNOLOGY
Vision 17BT
ASM, Traverse Axle
Drawing & Parts List 11/98
Form#10512A



Repair Parts for 59935C Wheel:

<u>Part No.</u>	<u>Description</u>	<u>Qty.</u>
58154A	Seal	2
51187A	Roller Clutch Bearing	2

Repair Parts for 59935B Wheel:

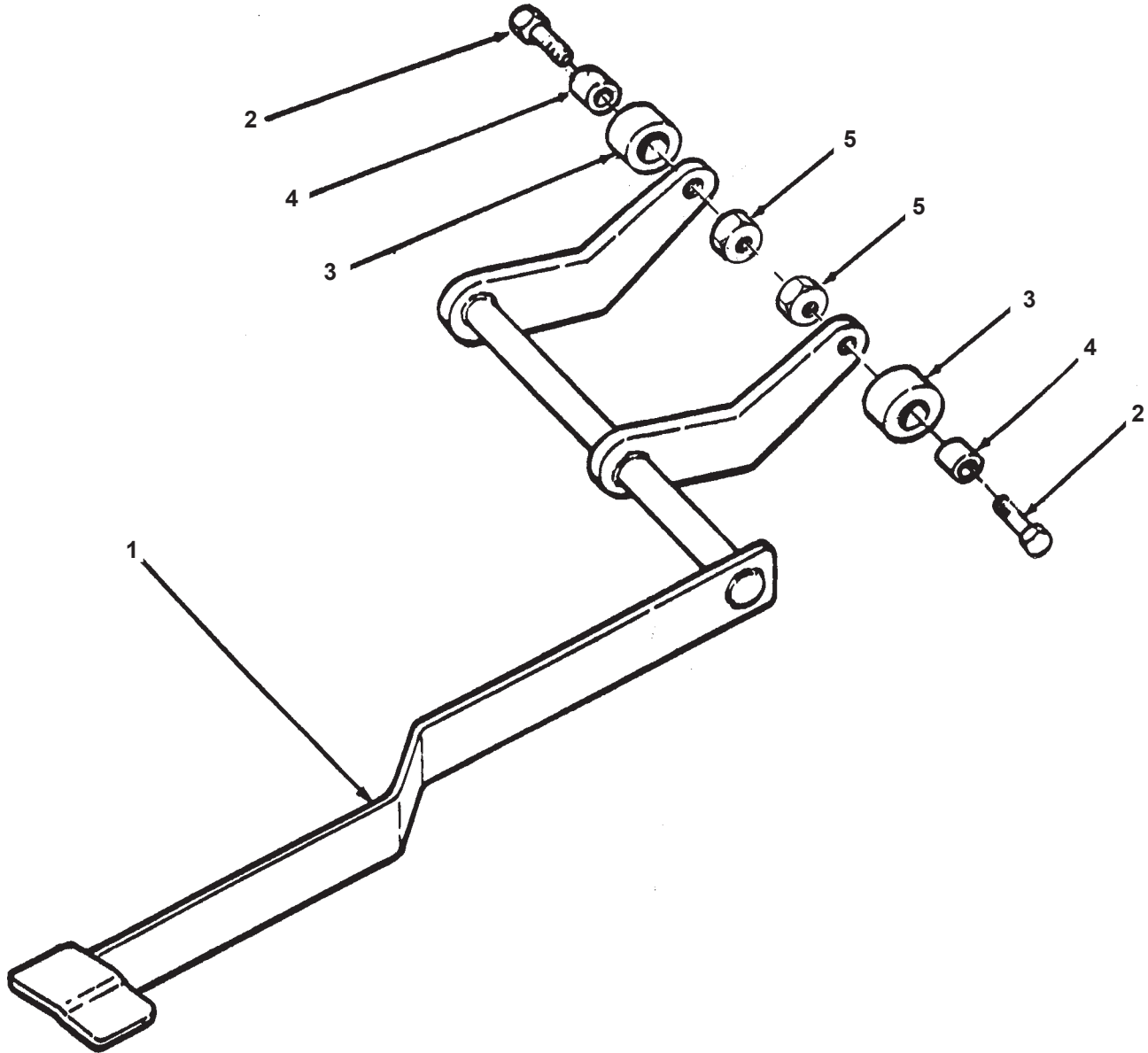
<u>Part No.</u>	<u>Description</u>	<u>Qty.</u>
58146A	Seal	2
51187A	Roller Clutch Bearing	2

Ref	Part No.	Description	Qty
1	59935C	Wheel, Traverse	2
*2	87613A	Washer, Nylon	10
3	51175A	Bearing, Pillow Block	2
4	60503A	Axle, Traverse	1
5	80504A	Key, 605 S & L	1
6	54014A	Fitting, Grease	2
7	58711A	Sprocket	1
8	87039A	Washer, Fender 1/4"	2

*NOTE: Place washers as required to center the wheels
 (Number of washers may vary)

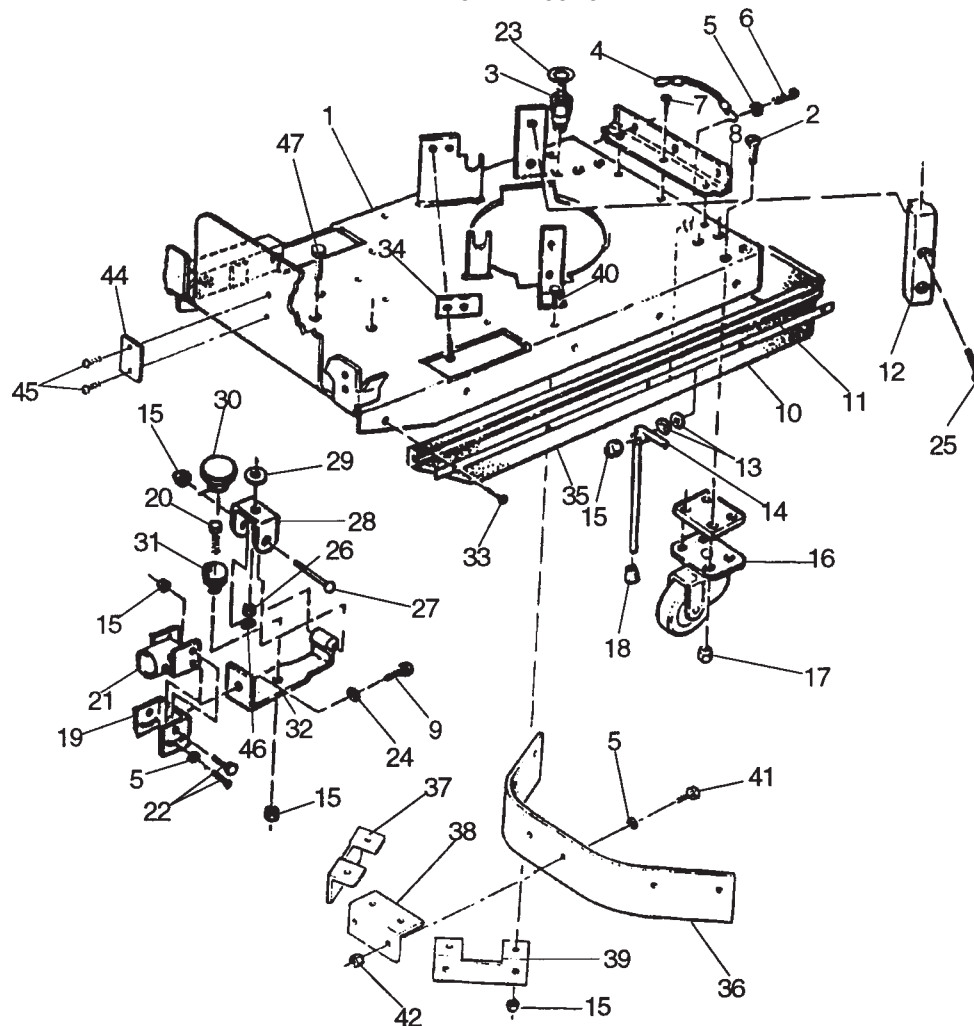
NOTE: Grease wheels once a week.

CLARKETECHNOLOGY
Vision 17B/BT
Brush Lift Drawing Assembly & Parts List 11/98
Form #16608A



Ref	Part No.	Description	Qty
1	65424A	Lift Brush, Weldment	1
2	85600A	Screw 1/4 - 20	2
3	51516A	Bushing	2
4	608210	Spacer, Handle, Bolt	2
5	920208	Nut, 1/4-20	2

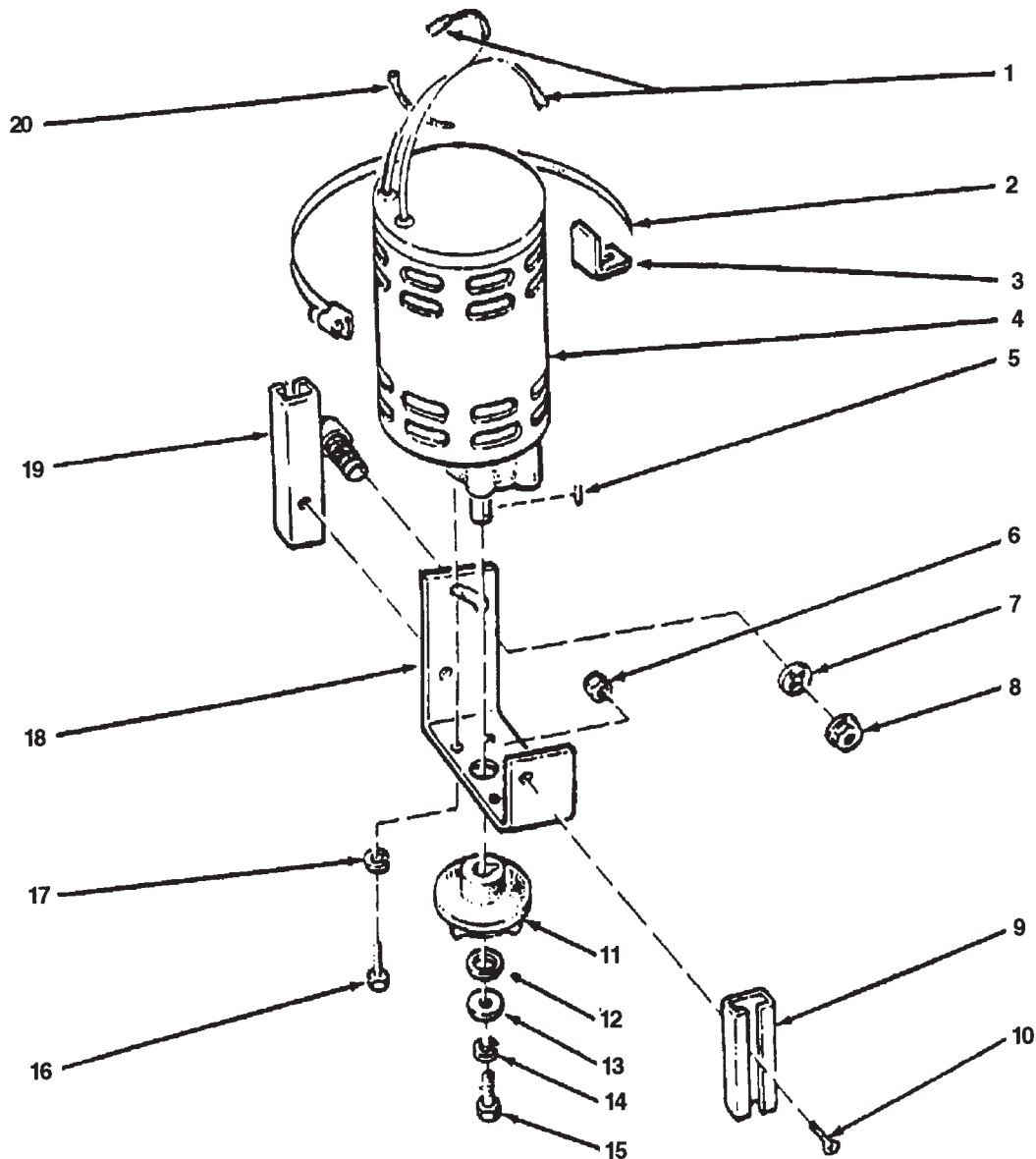
CLARKE TECHNOLOGY
Vision 17B/BT
ASM, Main Frame Drawing & Parts List - 11/98
Form #16926B



Ref	Part No.	Description	Qty
1	60021A	Weldment, Main Frame	1
2	84239A	Screw $\frac{5}{16}$ -18 x 1 Flat Hd SS	6
3	53618A	Adapter $\frac{3}{8}$ X $\frac{3}{8}$	1
4	64456A	Handle	1
5	87026A	Washer, S.S. $\frac{1}{4}$ " Flat	15
6	85384A	Screw $\frac{1}{4}$ - 20 X $1\frac{1}{2}$	2
7	85395A	Screw $\frac{1}{4}$ - 20 X $\frac{1}{2}$	7
8	64505A	Hinge Tank	1
9	85822A	Screw $\frac{3}{8}$ -16 x $\frac{7}{8}$	1
10	31227A	Skirt, Main Frame	1
11	66960A	Retainer, Skirt	2
12	38009A	Guide, Plastic	3
13	980442	Wave Washer	2
14	68733B	Kick Stand	1
15	81104A	Nut $\frac{1}{4}$ - 20 Nylock	12
16	52117A	Caster, Swivel	2
17	920110	Nut, $\frac{5}{16}$ - 18 Elastic	6
18	52047A	Cap	1
19	69028A	Wldmt. Squeegee Swivel	1
20	85391A	Screw $\frac{1}{4}$ - 20	1
21	60698A	Squeegee, Bracket, Weldment	1
22	170915	Screw $\frac{1}{4}$ -20 x $\frac{3}{4}$	4
23	722021	Clamp, Hose	1
24	87614A	Washer $\frac{3}{8}$ Int., Ext.	2

Ref	Part No.	Description	Qty
25	84233A	Screw $\frac{1}{4}$ - 20 Flat	6
26	67867A	Nut, Squeegee Spacer	1
27	85396A	Screw	1
28	61252A	Bracket, Swing Squeegee	1
29	87027A	Washer	1
30	30517A	Bushing Squeegee	1
31	58612A	Spring, Squeegee	1
32	68730B	Bracket, Arm Weldment	1
33	85397A	Screw, 10-24 x $\frac{3}{8}$ SS	12
34	66939A	Retainer, Motor Pivot	1
35	66961A	Retainer Skirt	2
36	33504A	Center Flap	1
37	69470A	Bracket, Left Flap	1
38	69469A	Bracket, Center Flap	1
39	69468A	Bracket, Right Flap	1
40	962098	Screw, $\frac{1}{4}$ - 20 x $\frac{3}{4}$	6
41	962798	Screw, 10 - 24 x $\frac{3}{8}$ SS	11
42	81110A	Nut, 10 - 24 Hex	11
43	170854	Nut, $\frac{5}{16}$ - 18	1
44	77261A	Tag	1
45	85509A	Screw	2
46	81112A	Nut, $\frac{5}{16}$ - 18 ESNA	1
47	84229A	Screw, $\frac{5}{16}$ - 18 x .88	1
NI	See pg 42	Kit, Parking Brake STD on European Models	

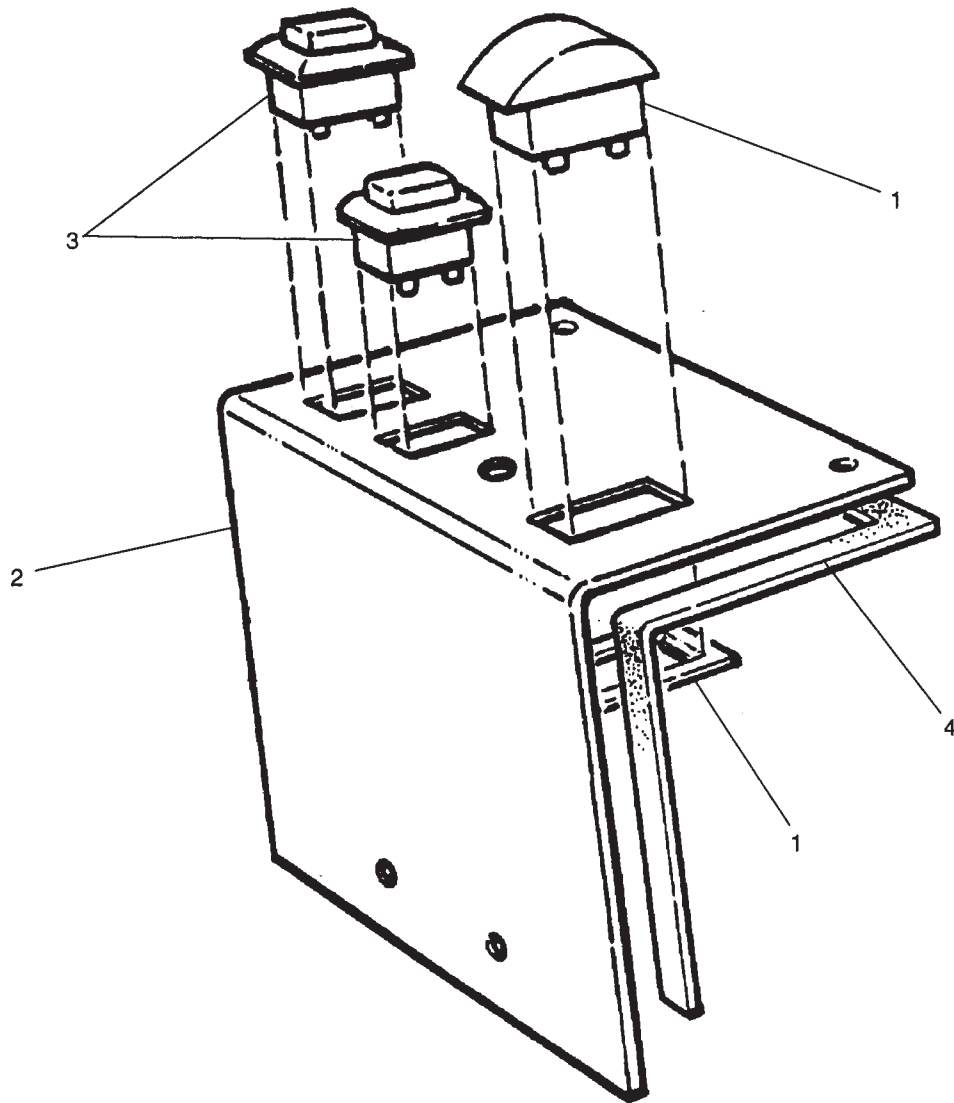
CLARKE TECHNOLOGY
Vision 17B/BT
Brush Motor Assembly
Drawing and Parts List 3/00
Form #17116A



Ref	Part No.	Description	Qty
1	47710A	Terminal, Brush Motor	2
2	762005	Clamp	1
3	60670B	Bracket	1
4	44809A	Gear Motor 24V DC	1
	Page 43	Motor Parts Breakdown	
5	Page 42	Gear Parts Breakdown	
5	915102	Key (included with #4)	1
6	81104A	Nut, 1/4 - 20 Nylock	2
7	980662	Washer	1
8	67865A	Spacer, Tilt Handle	1
9	63600A	Guide RH	1

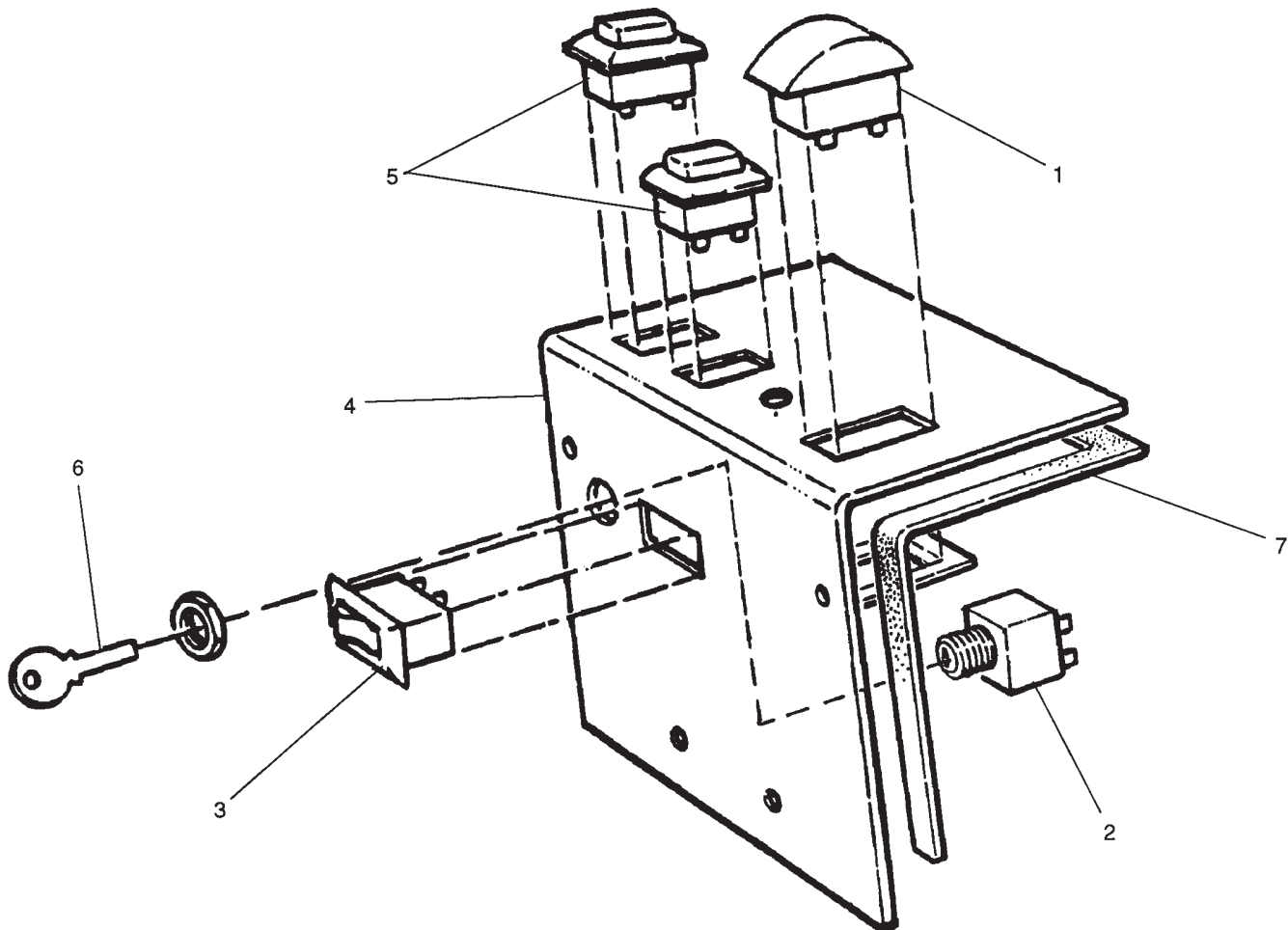
Ref	Part No.	Description	Qty
10	84242A	Screw 1/4 -20 x 5/8	2
11	20308A	Adapter Motor	1
12	980679	Spacer Washer	1
13	980210	Washer Impeller	1
14	980652	Washer, Lock 5/16	1
15	85727A	Screw, 5/16 Hex	1
16	85389A	Screw, 3/8 - 16 x 5/8 Pan	4
17	980638	Lockwasher 3/8	4
18	61238A	Bracket, Motor Lift	4
19	68761A	Guide, LH	1
20	58901A	Tie, Wire	2

CLARKE TECHNOLOGY
Vision17B
Panel Assembly Non-Traverse Model
Drawing & Parts List 11/98
Form # 17641A



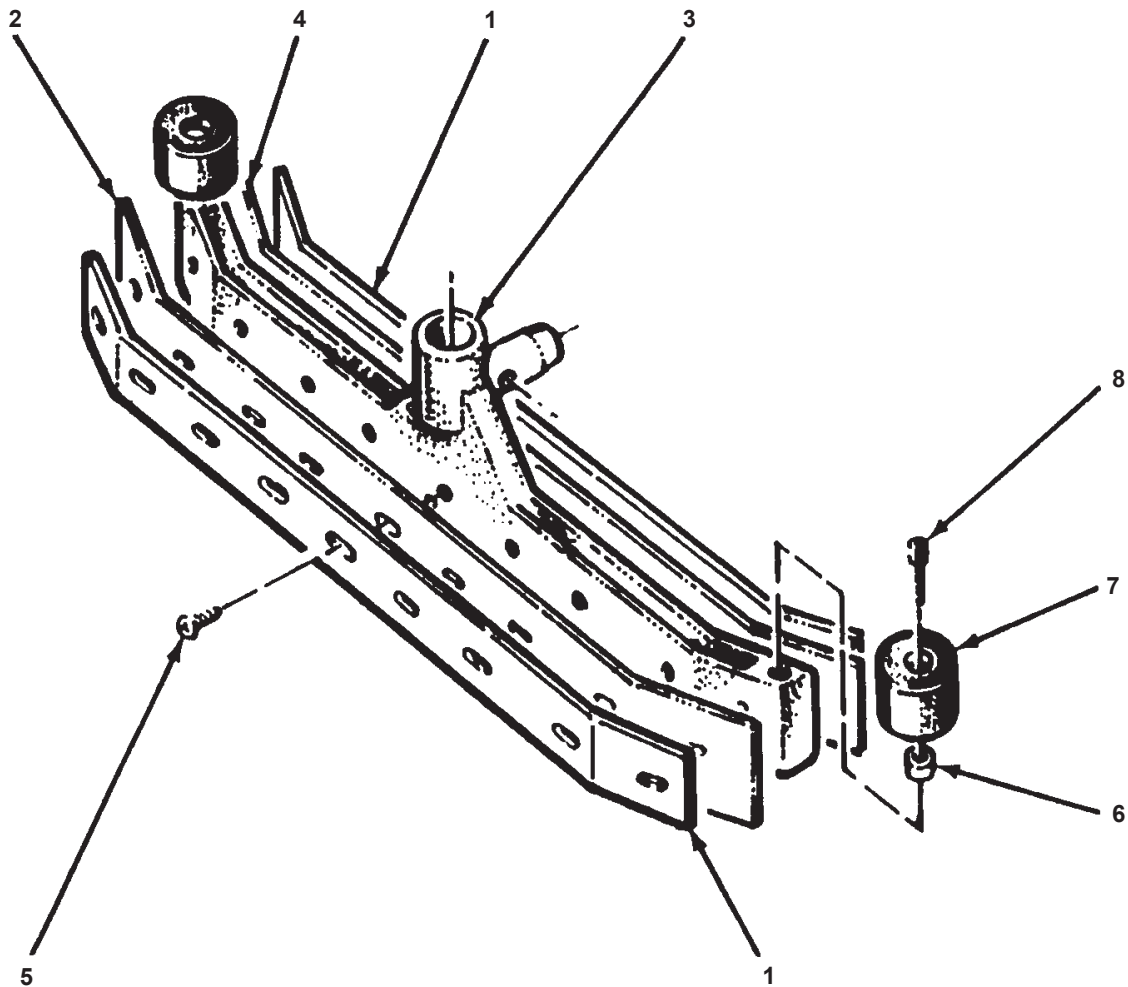
Ref	Part No.	Description	Qty
1	44405A	Meter, Battery	1
2	66179B	Panel, Control	1
3	47316B	Switch	2
4	54349A	Gasket	1

CLARKE TECHNOLOGY
Vision 17BT
Panel Assembly - Battery Traverse Model
Drawing and Parts List 11/98
Form #17640A



Ref	Part No.	Description	Qty
1	44405A	Meter, Battery	1
2	47380A	Switch, Key (Incl. 2 of item #6)	1
3	47304A	Switch, 3-Position	1
4	69806B	Panel, Control	1
5	47316B	Switch	2
6	55413A	Key	1
7	54349A	Gasket	1

CLARKE TECHNOLOGY
Vision 17B/BT
Squeegee Assembly Drawing & Parts List 11/98
Form #18809A

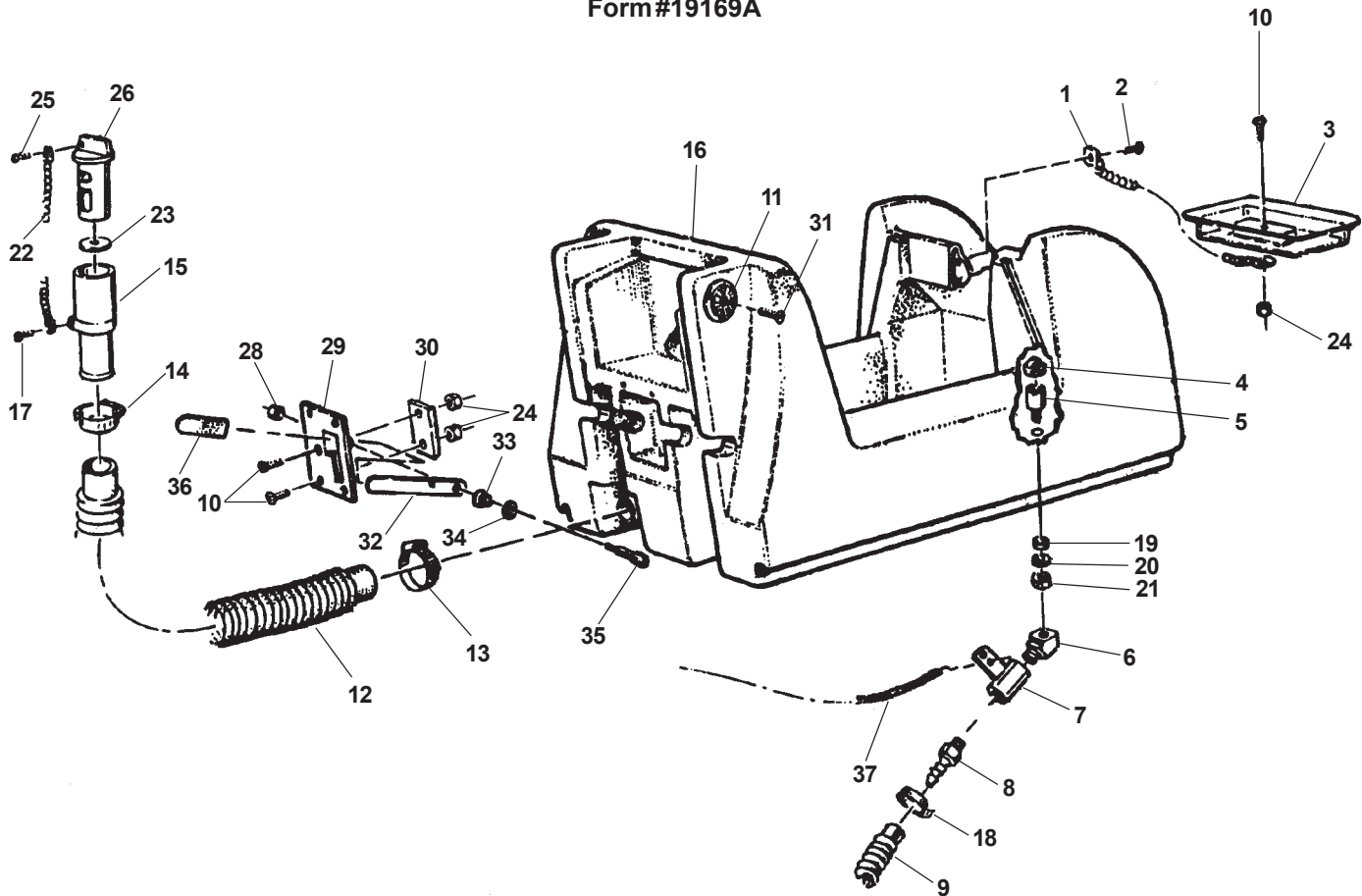


Ref	Part No.	Description	Qty
1	66921B	Retainer, Squeegee	2
2	30902A	Blade, Squeegee Rear	2
3	27703A	Squeegee, Casting	1
4	30903A	Blade, Squeegee Front	1
5	85398A	Screw $\frac{1}{4}$ - 20 X $\frac{1}{2}$	18
6	838201	Spacer, Wheel Guide	2
7	839702	Wheel, Brush Guide	2
8	962841	Screw, $\frac{5}{16}$ - 18 x $1\frac{1}{4}$	2

Blades Available:

30918A	Blade, Sq., Front Nitrile/EPDM	1
30919A	Blade, Sq., Rear Nitrile/EPDM	1

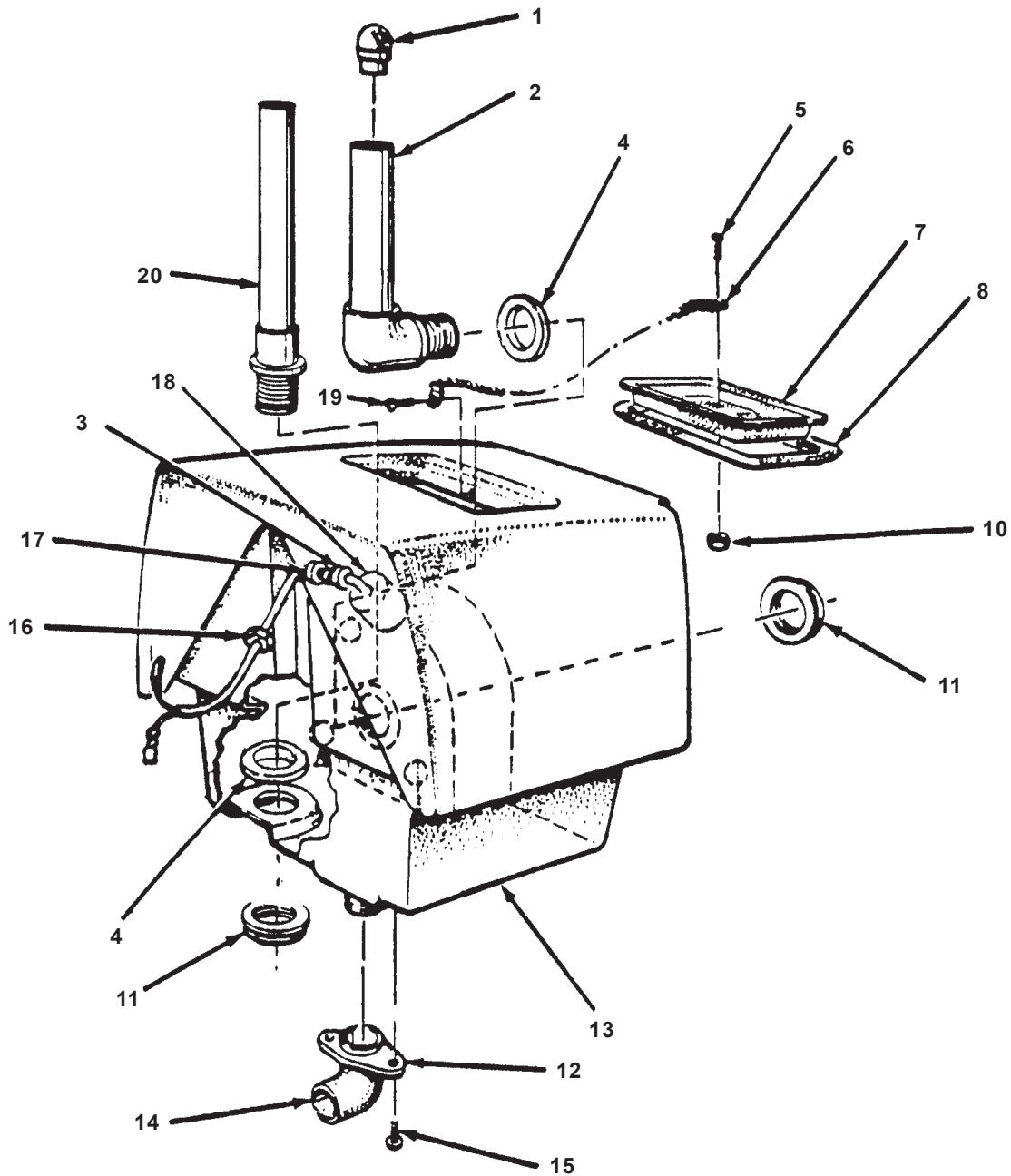
CLARKE TECHNOLOGY
Vision 17B/BT
Solution Tank Assembly
Drawing & Parts List 6/01
Form#19169A



Ref	Part No.	Description	Qty
1	692409	Chain Cover	1
2	85519A	Screw 1/4 - 20 X 3/8	1
3	832322	Cover, Solution Tank	1
4	878535	Strainer, Solution Tank	1
5	60317A	Adapter, Filter	1
6	53614A	Elbow, Solution	1
7	849401	Valve, Solution	1
8	53618A	Adapter, 3/8 x 3/8	1
9	35138A	Hose, Solution	1
10	962798	Screw 10-24 X 1/2	1
11	36101A	Ratchet, Handle	2
12	30416A	Hose, Drain	1
13	752020	Clamp, Hose	1
14	832002	Clamp, Hose	1
15	839401	Drain	1
16	38964B	Tank, Solution	1
17	962943	Screw	1
18	722021	Clamp, Hose	1
19	833401	Gasket, Drain	1

Ref	Part No.	Description	Qty
20	980630	Washer	1
21	920264	Nut 3/4 - 16 Hex	1
22	52206A	Chain, Cover	1
23	833407	Gasket, Drain	1
24	81110A	Nut, 10-24	3
25	962987	Screw, 10-24 x 3/8	1
26	833901	Handle, Drain Valve	1
27	84237A	Screw, 10-32 x 1/2	2
28	81217A	Nut 1/4-20 Nylock	1
29	68762A	Plate, Squeegee Lift	1
30	68646A	Plate, Wear	1
31	84236A	Screw, 6-32	6
32	64476A	Handle, Squeegee Lift	1
33	53030A	Spring, Taper	1
34	980651	Washer	1
35	80031A	Bolt, Shoulder	1
36	52755A	Cover, Handle	1
37	52503A	Cable, Solution	1

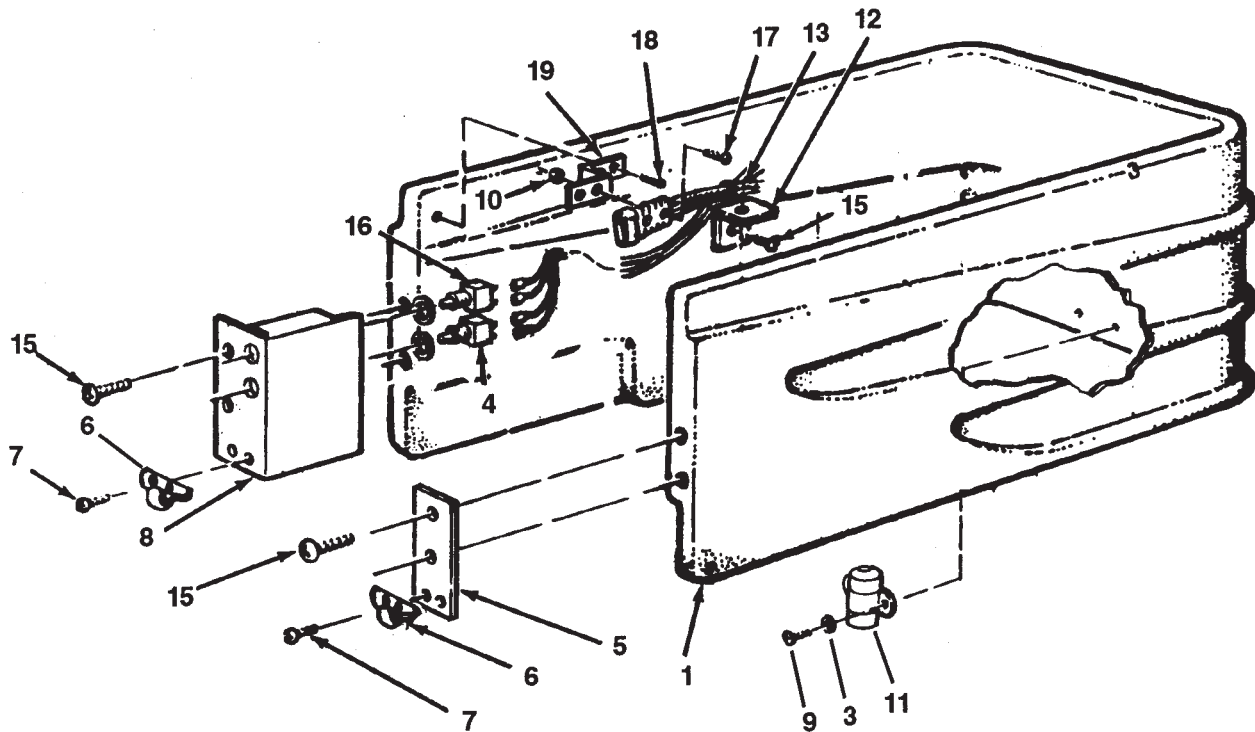
CLARKE TECHNOLOGY
Vision 17B/BT
Recovery Tank Assembly
Drawing & Parts List 6/01
Form#19170A



Ref	Part No.	Description	Qty
1	58012A	Strainer, Recovery Tank	1
2	59314A	Tube, Stand, Recovery	1
3	56459A	Strain Relief	1
4	837304	O'Ring Seal	2
5	962798	Screw, 10-24 x 1/2	1
6	692409	Chain, Cover	1
7	832322	Cover, Solution Tank	1
8	34256A	Gasket, Recovery Drain	1
10	81110A	Nut, 10-24	1
11	920797	Nut, Drain Valve Lock	2
12	66933A	Elbow, Retainer	1

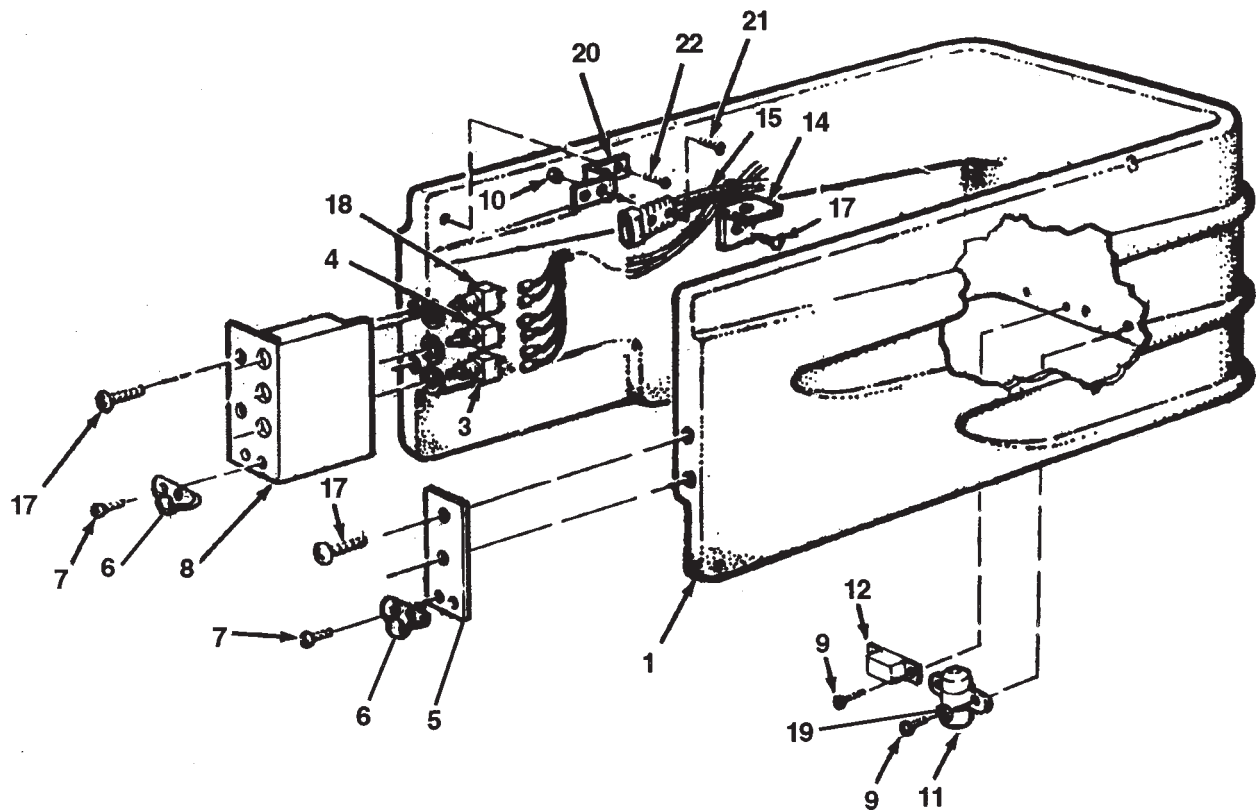
Ref	Part No.	Description	Qty
13	38966B	Tank, Recovery	1
14	53629A	Elbow, Recovery Drain	1
15	85395A	Screw, 1/4-20 x 1/2	2
16	82100A	Nut, 1/2 Conduit	1
17	87612A	Seal, Washer	1
18	14092A	Switch, Float Shut-Off	1
19	85519A	Screw, 1/4-20 x 3/8	1
20	39323A	Tube, Recovery	1
NI	51828A	Strap, Hose	2

CLARKE TECHNOLOGY
Vision 17B
Support Tank Assembly
Drawing & Parts List 11/98
Form #18909B



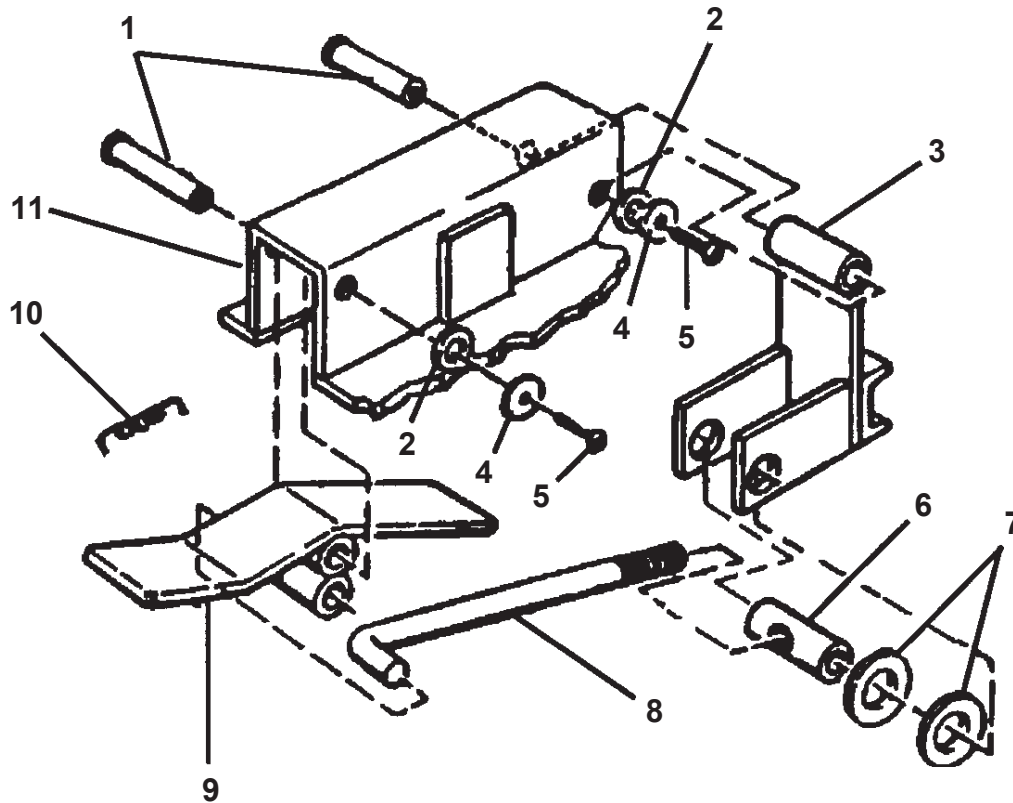
Ref	Part No.	Description	Qty
1	38952B	Support, Solution Tank	1
3	87026A	Washer, 1/4	4
4	41446A	Breaker, Circuit 30A	1
5	66689A	Plate, Clamp	1
6	608537	Strike, Clamp	2
7	85509A	Screw, 6 - 32 x 1/4	4
8	66688A	Plate, Circuit Breaker	1
9	85414A	Screw, 10-00 x 3/8	4
10	920056	Nut, 6 - 32 Elastic	2
11	878514	Solenoid, 24V	2
12	61244A	Bracket, Tank	5
13	49728A	Harness, Control	1
15	85395A	Screw, 1/4 - 20 x 1/2	9
16	41428A	Breaker, 35A	1
17	962212	Screw, 6-32 x 7/8	2
18	85387A	Screw, 1/4 - 20 x 3/4	1
19	61246A	Bracket, Battery Plug	1
NI	77050A	Label, Brush Lift	1

CLARKE TECHNOLOGY
Vision 17BT
Support Tank Assembly
Drawing & Parts List 11/98
Form #18915B



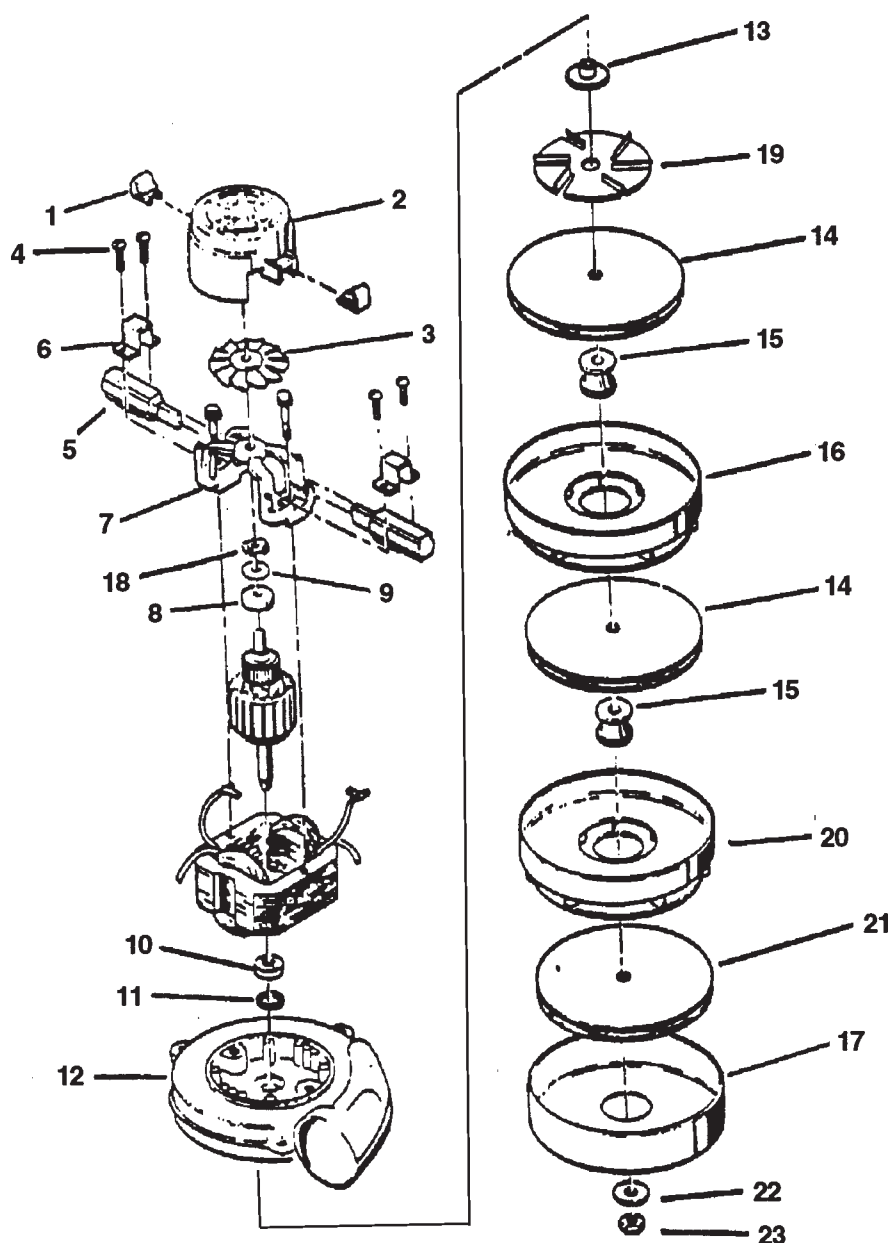
Ref	Part No.	Description	Qty
1	38952B	Support, Solution Tank	1
3	41438A	Breaker, Circuit 7A	1
4	41446A	Breaker, Circuit 30A	1
5	66689A	Plate, Clamp	1
6	608537	Strike, Clamp	2
7	85509A	Screw, 6 - 32 x 1/4	4
8	66688A	Plate, Circuit Breaker	1
9	85414A	Screw, 10-00 x 3/8	8
10	920056	Nut, 6 - 32 Elastic	2
11	878514	Solenoid, 24V	3
12	46312A	Relay, Time	1
14	61244A	Bracket, Tank	5
15	49730A	Harness, Control	1
17	85395A	Screw, 1/4 - 20 x 1/2	9
18	41428A	Breaker, 35A	1
19	87026A	Washer 1/4	6
20	61246A	Bracket, Battery Plug	1
21	962212	Screw, 6-32 x 7/8	2
22	85387A	Screw, 1/4 - 20 x 3/4	1
NI	77050A	Label, Brush Lift	1

CLARKE TECHNOLOGY
Vision 17BT
Brake Kit #10773A
Drawing & Parts List 5/98



Ref #	Part No.	Description	Qty
1	66536A	Pin, Brake	2
2	87027A	Washer	2
3	17519A	Brake, Pad Weldment	1
4	87036A	Washer, #10 S.S.	2
5	85397A	Screw, 10-24 x $\frac{3}{8}$ S.S.	2
6	67422A	Shaft, Brake	1
7	87613A	Washer, Nylon	2
8	67133A	Rod, Brake	1
9	10735A	Pedal, Brake	1
10	608340	Spring, Brake	1
11	Ref.	Machine Frame	ref.

CLARKETECHNOLOGY
Vision 17B/BT
Vacuum Motor
Drawing & Parts List 11/93
Form #44917A

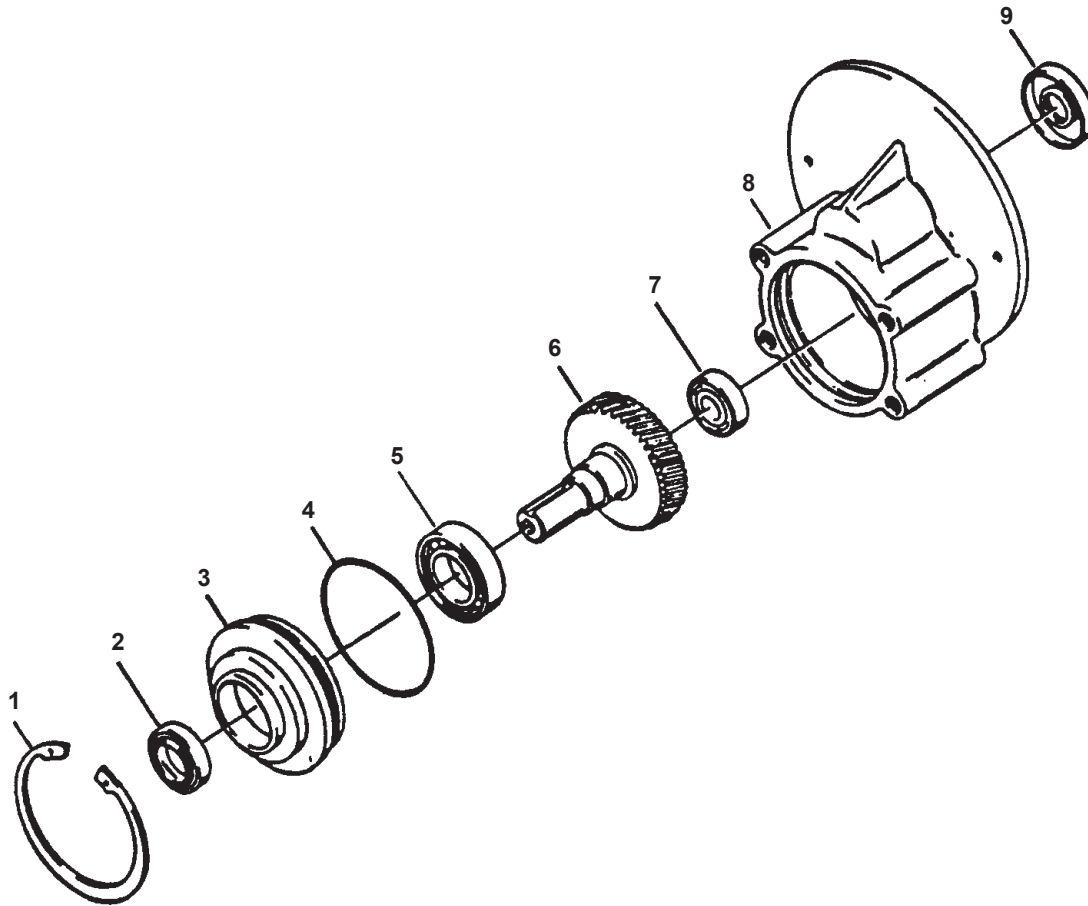


Ref #	Part No.	Description	Qty
1	51913A	Clip (Optional)	2
2	54809A	Housing - Vent	1
*3		Fan	1
4	85303A	Screw, 8 x 32 - 3/8 PN	4
5	40817A	Brush Mechanism	2
6	51914A	Clamp	2
7	50618A	Bracket, Commutator End	1
*8		Bearing	1
9	672714	Disc	1
*10		Bearing	1
11	59803A	Washer, Neoprene	1
*12		Bracket, Fan End	1
13	58500A	Spacer	1

Ref #	Part No.	Description	Qty
14	53914A	Fan, Rotating	2
15	658201	Spacer	2
*16		Fan, Stationary	1
*17		Shell, Fan	1
18	638313	Spring, Load	1
*19		Fan, Air Seal	1
*20		Fan, Stationary	1
*21		Fan, Rotating	1
*22		Washer	1
*23		Nut	1

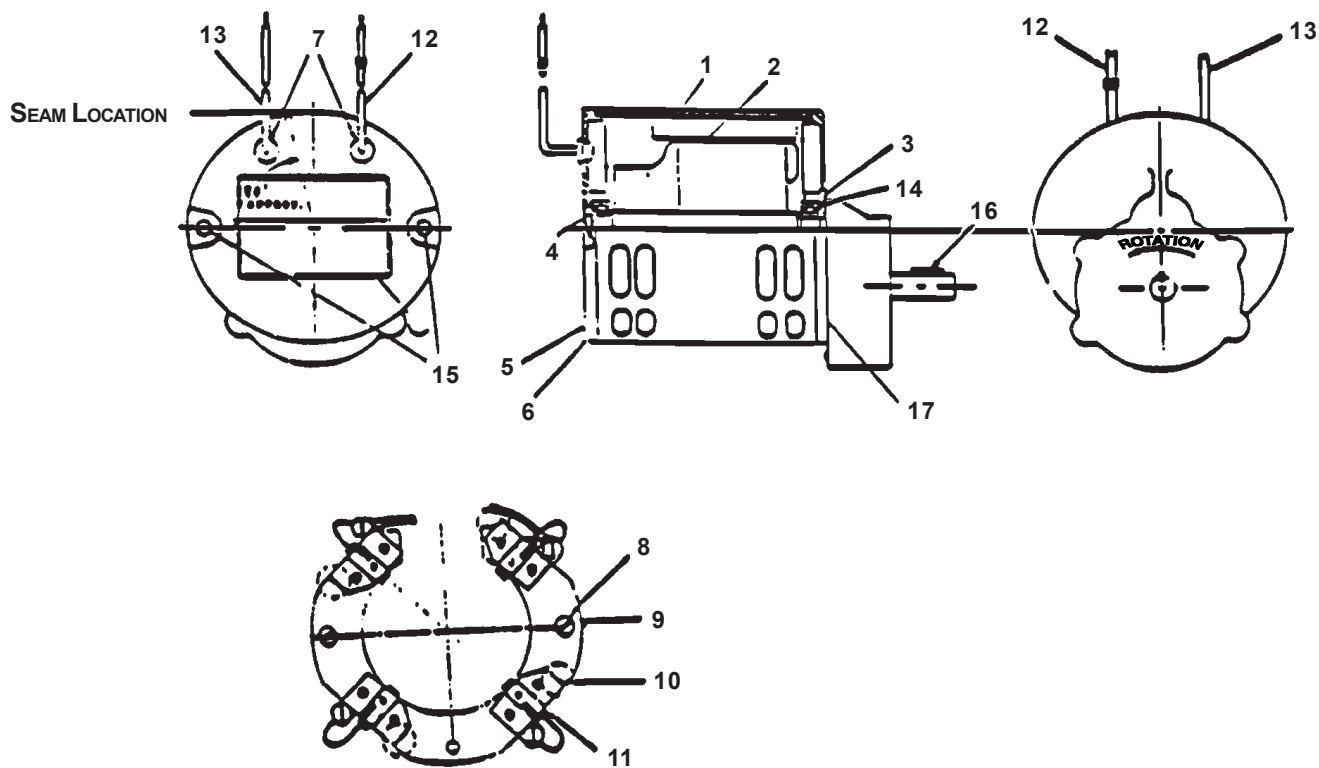
*NOTE: #'s 3, 8, 10, 12, 16, 17, 19, 20, 21, 22 & 23 are not available at this time.

CLARKE TECHNOLOGY
Vision 17B/BT
Gear Box #54238A
Drawing & Parts List 6/94



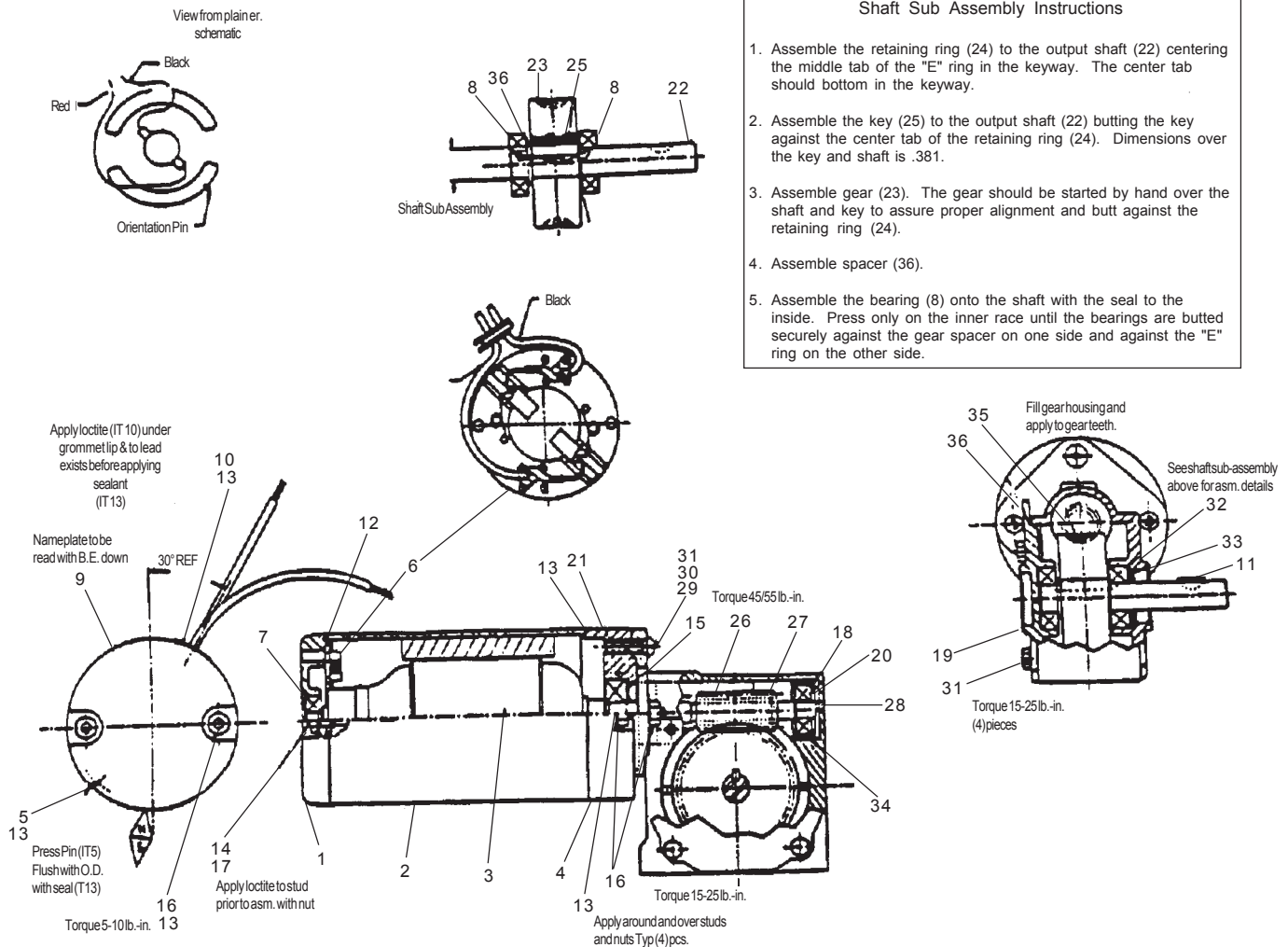
Ref	Part No.	Description	Qty
1	57846A	Ring, Snap	1
2	58143A	Seal, Oil, Small	1
3	52050A	Cap End	1
4	56668A	O - Ring	1
5	51176A	Bearing, Large	1
6	58316A	Shaft and Gear	1
7	902605	Bearing, Small	1
8	54883A	Housing	1
9	58144A	Seal, Oil Large	1
NI		Grease	1oz

CLARKE TECHNOLOGY
Vision 17B/BT
Drawing & Parts List 3/95
Form#10503A



Item	Part No.	Description	Qty
1	56478A	Stator Frame Assembly (w/Magnets & Clips)	1
2	50142A	Armature Assembly (w. B.E. & F.E. Bearings)	1
3	902654	Bearings B.E.	1
4	902550	Bearing F.E.	1
5	51840A	Commutator Bracket Assembly (w/Brush BRD Assembly Leads)	1
6	50520A	Commutator Bracket	1
7	56480A	Strain Relief	2
8	962546	Brush Board Screw	2
9	50517A	Brush Board Assembly (w/ Springs & Brushes)	1
10	448396	Brush Spring	4
11	40826A	Brush Assembly	4
12	55657A	Lead Assembly	1
13	55656A	Lead Assembly	1
14	59805A	Helical Washer	1
15	50515A	Thru Bolt	2
16	44809A	Shaft Key	1
17	54238A	B.E. Bracket Assembly (Gear Box)	1

CLARKE TECHNOLOGY
Vision 17BT
Traverse Motor Drawing & Parts List 2/96
Motor #45031A

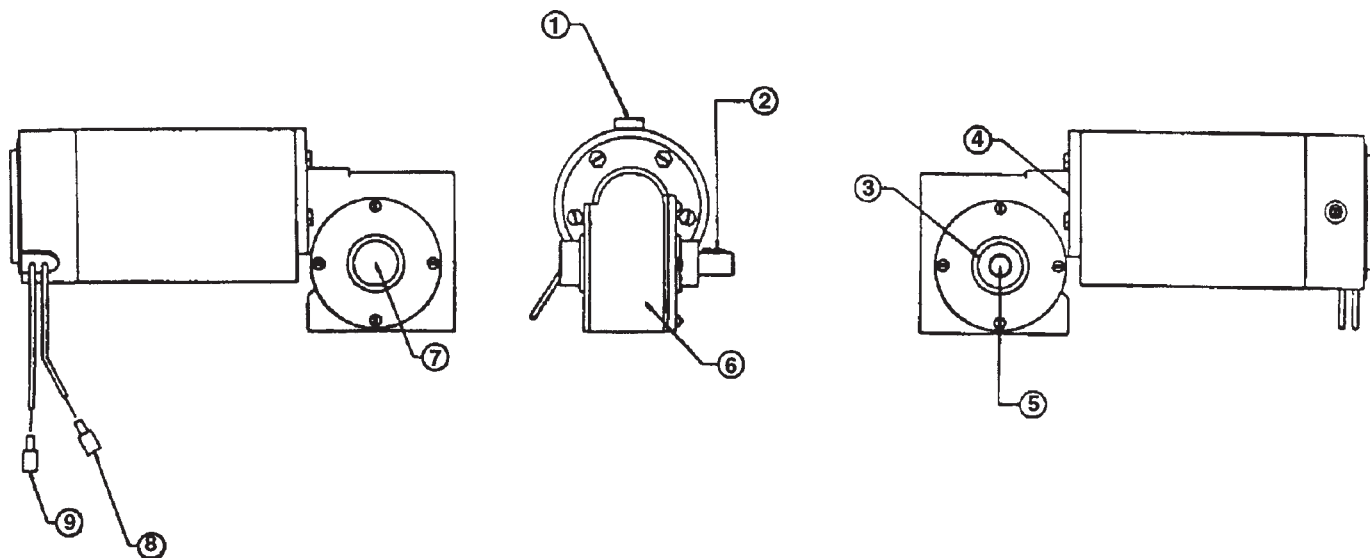


Ref	Part No.	Description	Qty
1	*	Housing Brush End	1
2	*	Field Assembly	1
3	50147A	Armature Assembly	1
4	*	Housing, Plain End	1
5	*	Roll Pin	1
6	51861A	Lead/BR Card Assembly	1
7	902679	Ball Bearing	1
8	51181A	Ball Bearing	2
9	*	Printed Mylar Stock	1
10	*	Loctite 404	1
11	55412A	#404 Woodruff Key	1
12	56671A	O Ring	1
13	*	Sealant	1
14	*	Stud, 10-32 X 6.45	2
15	53319A	Load Spring	1
16	*	Nut, Keps 10-32	6
17	*	Loctite 404	1
18	*	Gear Housing	1

Ref	Part No.	Description	Qty
19	*	Gear Cap	1
20	51180A	Ball Bearing	1
21	51179A	Ball Bearing	1
22	58318A	Output Shaft	1
23	54414A	Worm Gear	1
24	*	Retaining Ring	1
25	*	Key 1/8 x 1/8	1
26	59869A	Worm	1
27	925597	Roll Pin	1
28	*	Retaining Ring	1
29	962892	Screw, 1/4 - 20	1
30	980614	Lock Washer 1/4"	1
31	*	Screw, 10-32 SEMS	4
32	58694A	Load Spring	1
33	59868A	Washer	1
34	57850A	Ring, Bearing Mounting	1
35	*	Grease, Nyooel 15#	1
36	*	Spacer	1

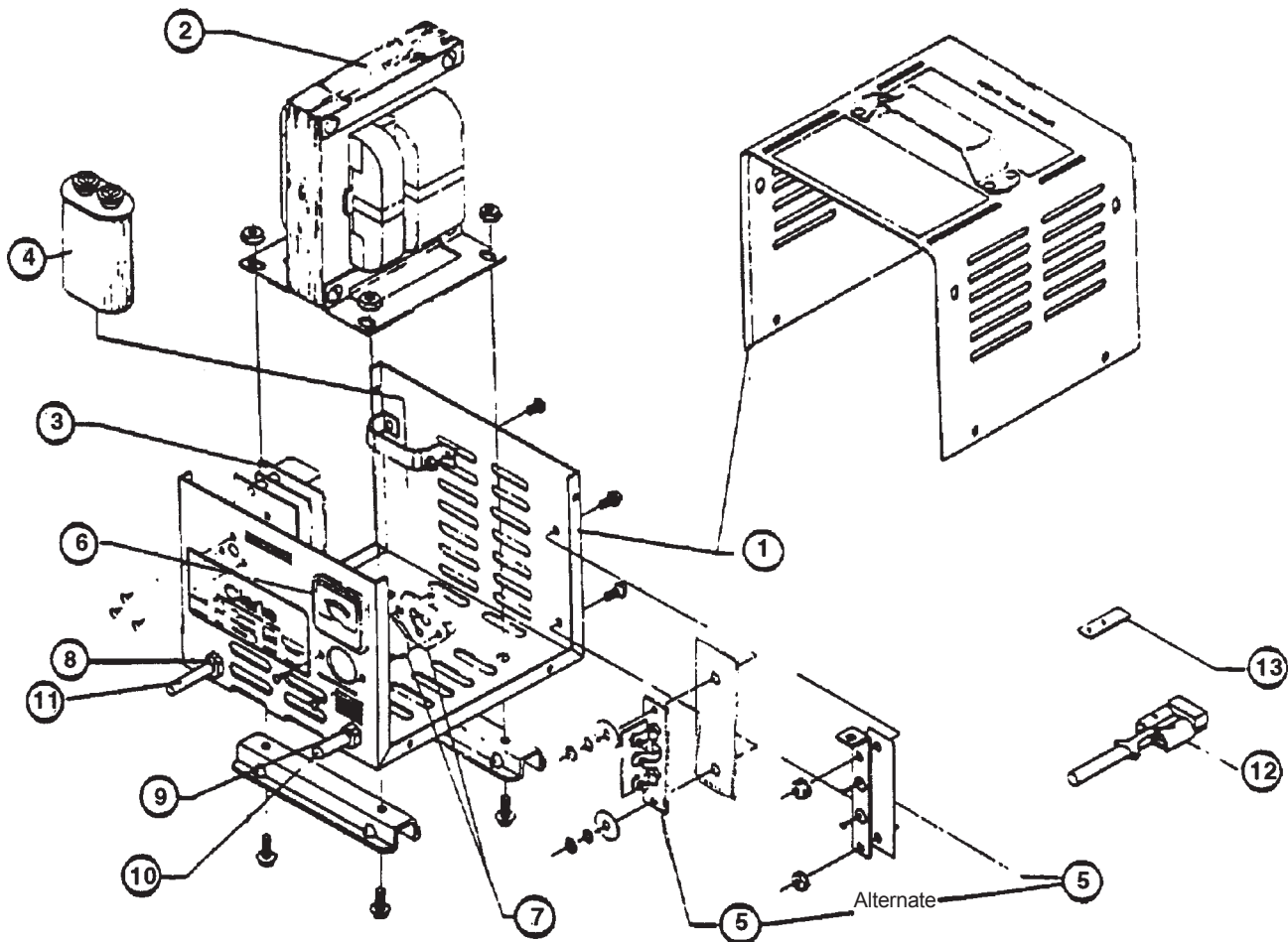
*Illustrated for assembly reference only.

CLARKE TECHNOLOGY
Vision 17BT
Traverse Motor 24V
Drawing & Parts List 2/96
Form #45031C



Ref	Part No.	Description	Qty
1	40831A	Carbon, Brush	2
2	55412A	Key	1
3	58152A	Shaft, Seal	1
4	54370A	Gasket, O'Ring	1
5	54416A	Gear Assembly	1
6	N/A	Gear Housing	N/A
7	52060A	Cap, Gear Head	1
8	47905A	Terminal, ¼ FIFQD	1
9	47905A	Terminal, ¼ FIFQD	1
10	NI	1.9 oz. Mobilith SCH 1500 Oil	

CLARKE TECHNOLOGY
Vision 17B/BT
Battery Charger Drawing & Parts List 11/93



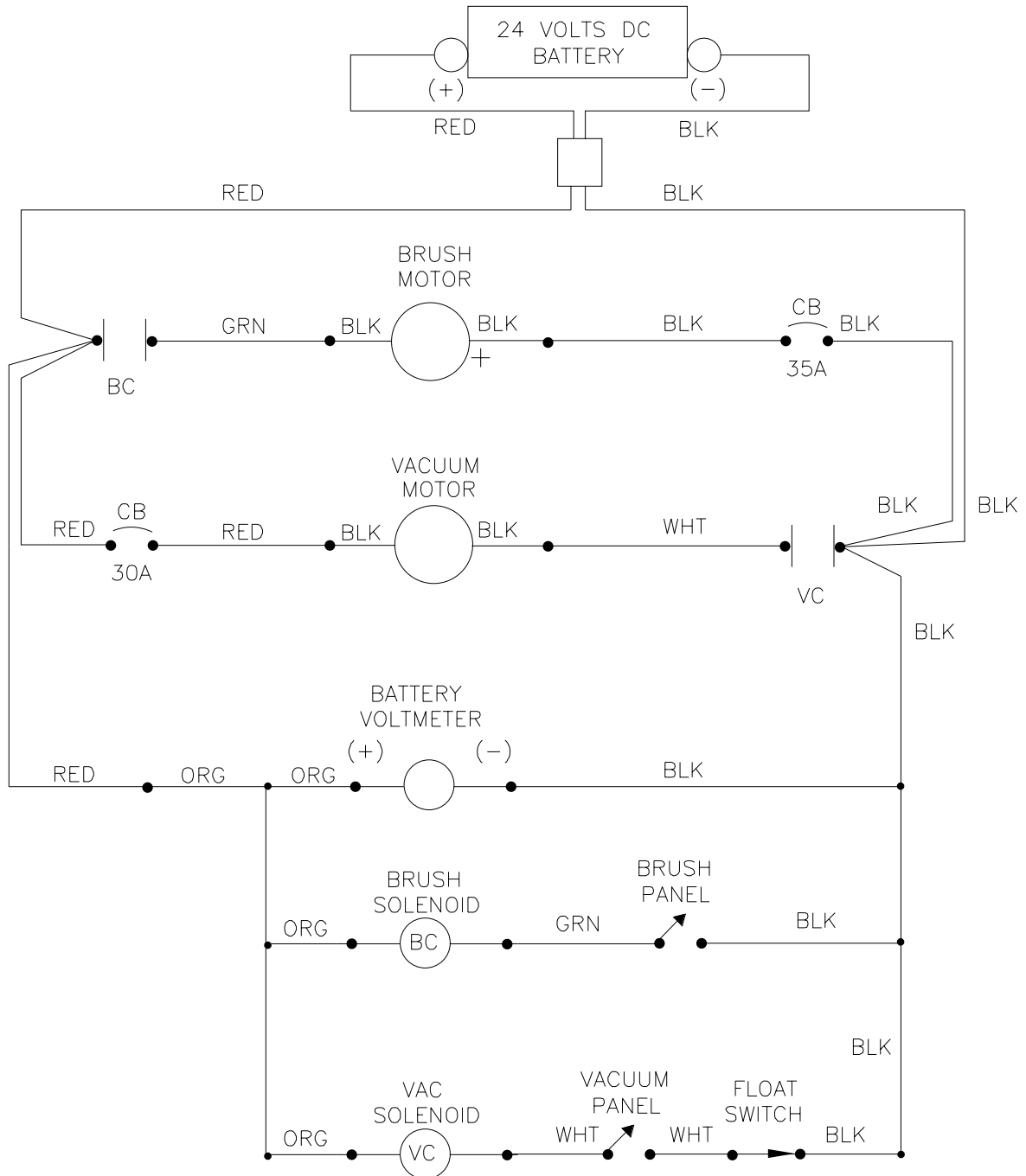
⚠ WARNING: All electrical repairs must be performed by qualified personnel only.

Charger #40510A: 24 Volt, 10 Amp D.C., 115 Volt A.C., 60 Hz

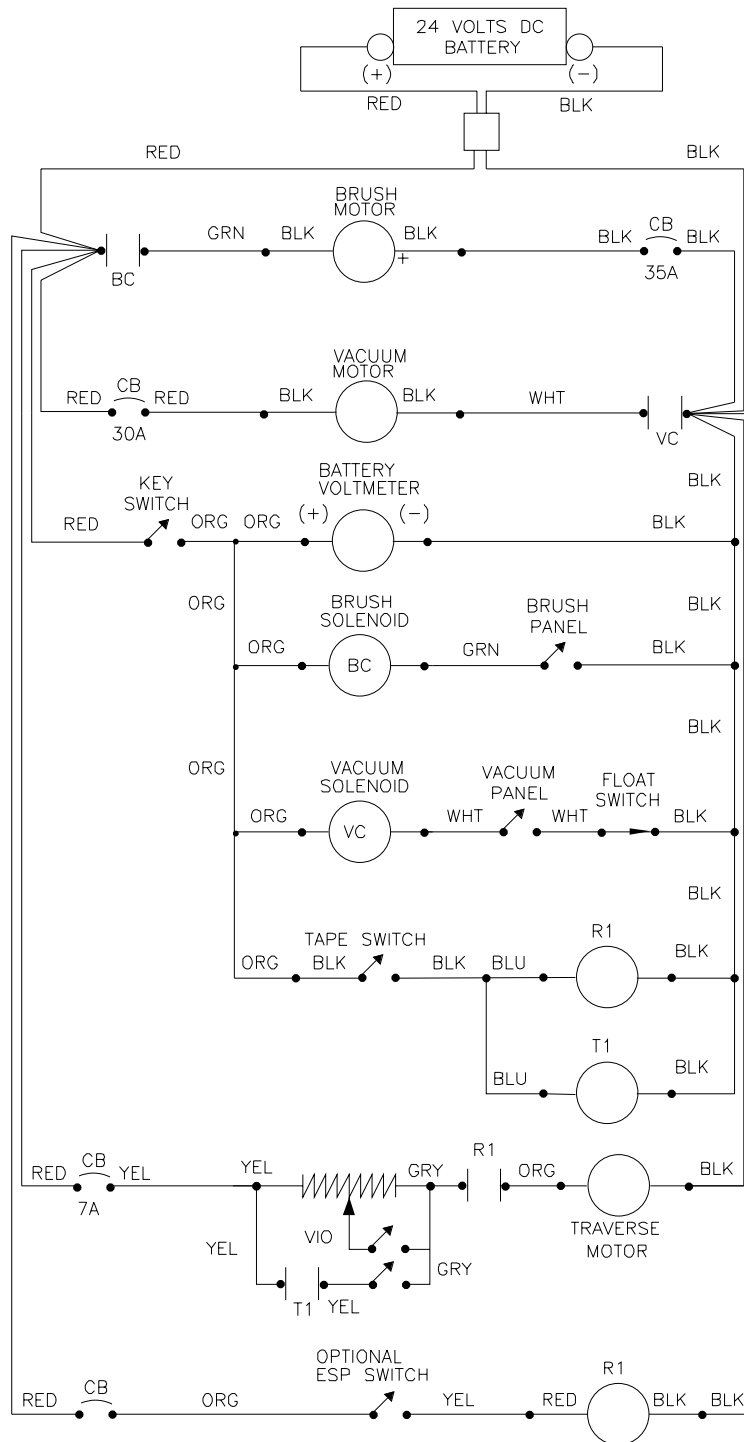
Charger #40511A: 24 Volt, 10 Amp D.C., 230 Volt A.C., 50 Hz

Ref	Description	Charger 40510A	Charger 40511A
1	Charger Case	41130A	41131A
2	Transformer	799225	799226
3	Electronic Controller Kit	47500A	48200A
4	Capacitor 660 V.A.C.	915511	915511
5	Heat Sink Assembly	43300A	43300A
6	Ammeter	40206A	40206A
7	Fuse Holder (2)	283360	283360
	Cartridge Fuse (2)	912216	912216
8	Strain Relief, A.C. Cord	837525	837525
9	Strain Relief, D.C. Cord	837525	837525
10	D.C. Cord Assembly	908981	908981
11	A.C. Cord Assembly	908982	908983
12	Housing	911470	911470
13	D.C. Plug Lock Key	795020	795020

CLARKE TECHNOLOGY
Vision 17B
Model #00380A - 24 V Electrical Schematic 8/98

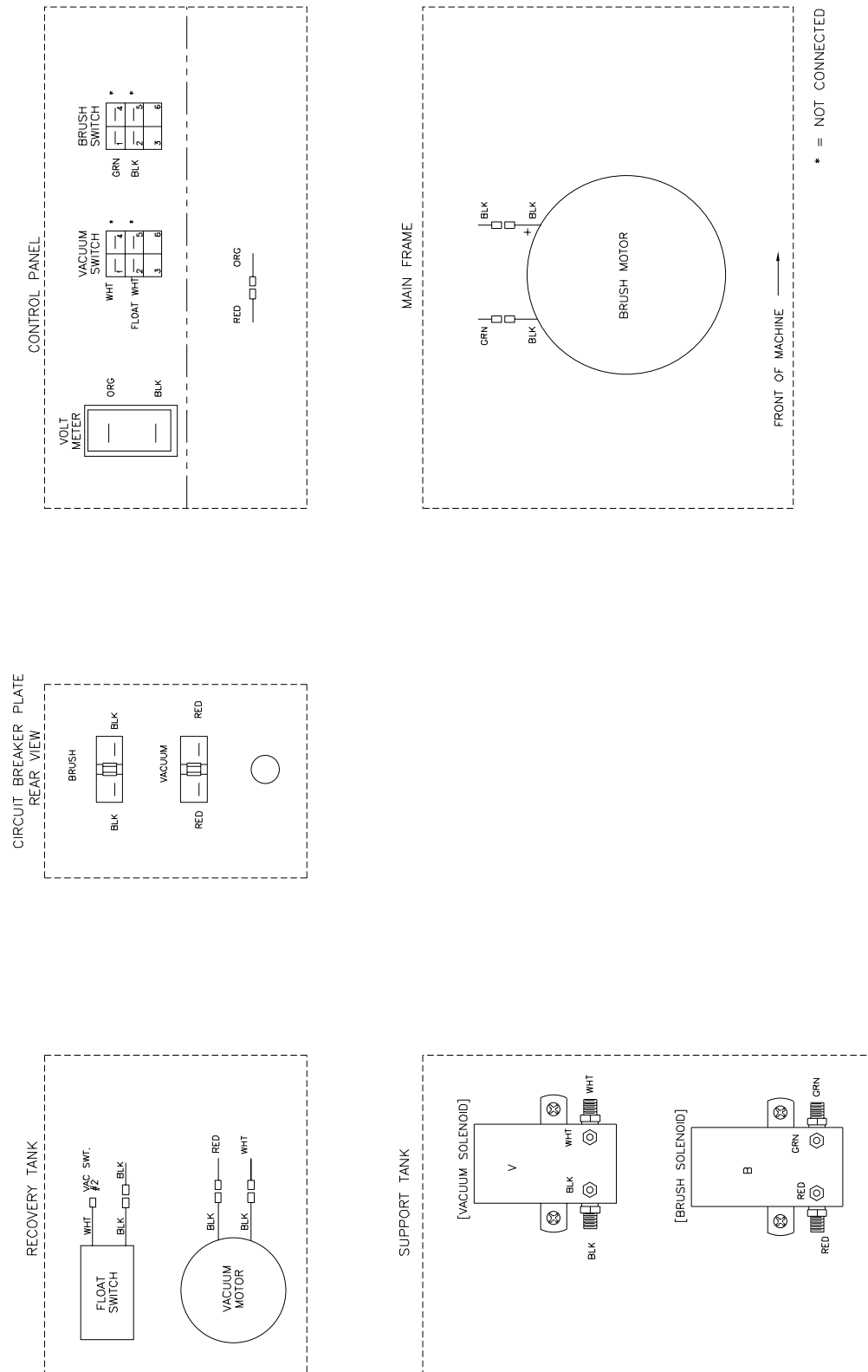


CLARKE TECHNOLOGY
Vision 17BT
Model #00390A - 24 V Electrical Schematic 4/03



3. R1 = TRAVERSE SOLENOID.
R1 SUPPLIES POWER TO TRAVERSE MOTOR WHEN TOUCH SWITCH IS ACTIVATED.
2. T1 = TRAVERSE HIGH DELAY TIMER.
T1 DELAYS HIGH SPEED FOR 1 TO 2 SECONDS AFTER TOUCH SWITCH IS ACTIVATED.
1. * = NOT CONNECTED

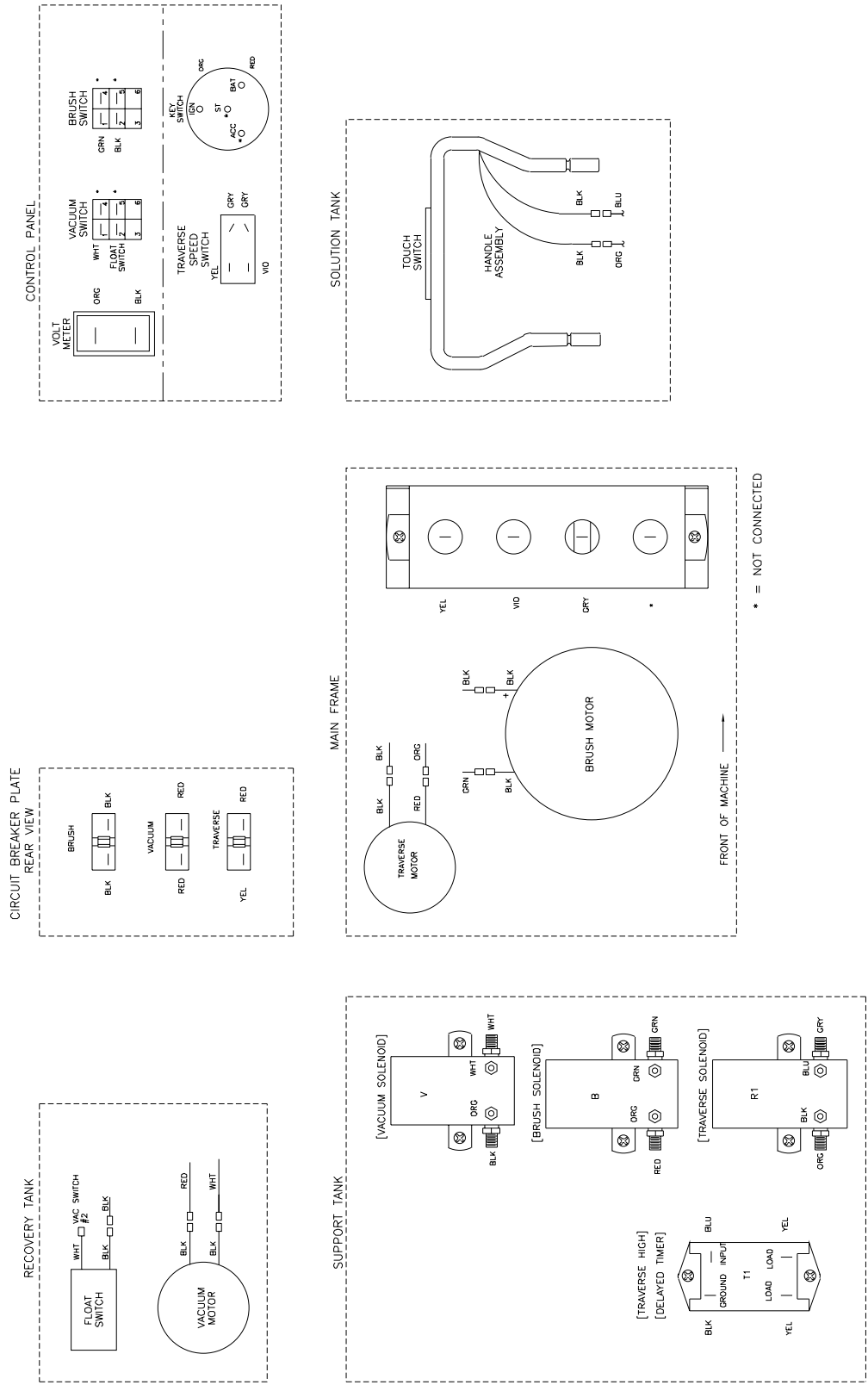
CLARKE TECHNOLOGY Vision 17B 24V Connection Diagram 6/01



CLARKE TECHNOLOGY

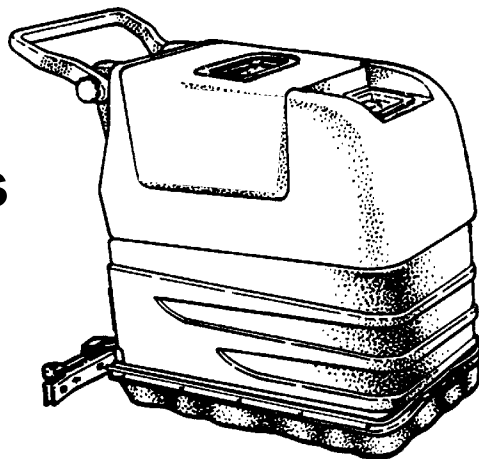
Vision 17BT

24V Connection Diagram 6/01





Operator's Manual



Vision 17E 115V

READ THIS BOOK

This book has important information for the use and safe operation of this machine. Failure to read this book prior to operating or attempting any service or maintenance procedure to your Clarke machine could result in injury to you or to other personnel; damage to the machine or to other property could occur as well. You must have training in the operation of this machine before using it. If your operator cannot read English, have this manual explained fully before attempting to operate this machine.

Si Ud. no pueden leer el Inglés, se hagan explicar este manual completamente antes de tratar el manejo o servicio de esta máquina.

All directions given in this book are as seen from the operator's position at the rear of the machine.

For new books write to: ALTO U.S. Inc., 2100 Highway 265, Springdale, Arkansas 72764.

CLARKE TECHNOLOGY
Vision 17E 115V
Machine Variables 6/02

Electric - 115V	Variable Code		
	00371A	Breakdown:	
		00370A	Vision 17E Std. Base Machine 115V
		51436B	Brush, Polypropylene
	00372A	Breakdown:	
		00370A	Vision 17E Std. Base Machine 115V
		53126B	Pad Driver

Accessories:

Part No.	Description
51436B	Brush, Polypropylene
53126B	Pad Driver
50527A	Base
56927A	Retainer
50477A	Clutch Plate for Pad/Brush
962819	Clutch Plate Screws
51437B	Nylon Scrub Brush, .028 Dia. Bristles
51439B	Grit Scrub Brush Assembly
682408	Hose Connector - connects 1½" diameter hose to machine
674114	10' x 1½" red spiral lock deluxe hose
639804	1½" double curved aluminum wand
638828	Aluminum 14" squeegee pick up tool
680724	Replacement blades for 638828 (Req. 2 set)
638856	Aluminum combination scrubbing brush & squeegee pick-up tool
51469B	Nylon Scrub Brush, .016 Dia. Bristles
51481A	Grit-Lite◆
10773K	Parking Brake Kit
18800Au	Squeegee Asm.

NOTE:◆ indicates a change has taken place since last publication of this manual

PADS BY CASE

Color	Vision 17	Color	Vision 17
Yellow	979169	Green	976157
White	976052	Brown	976055
Red	976053	Black	976158
Blue	976054		

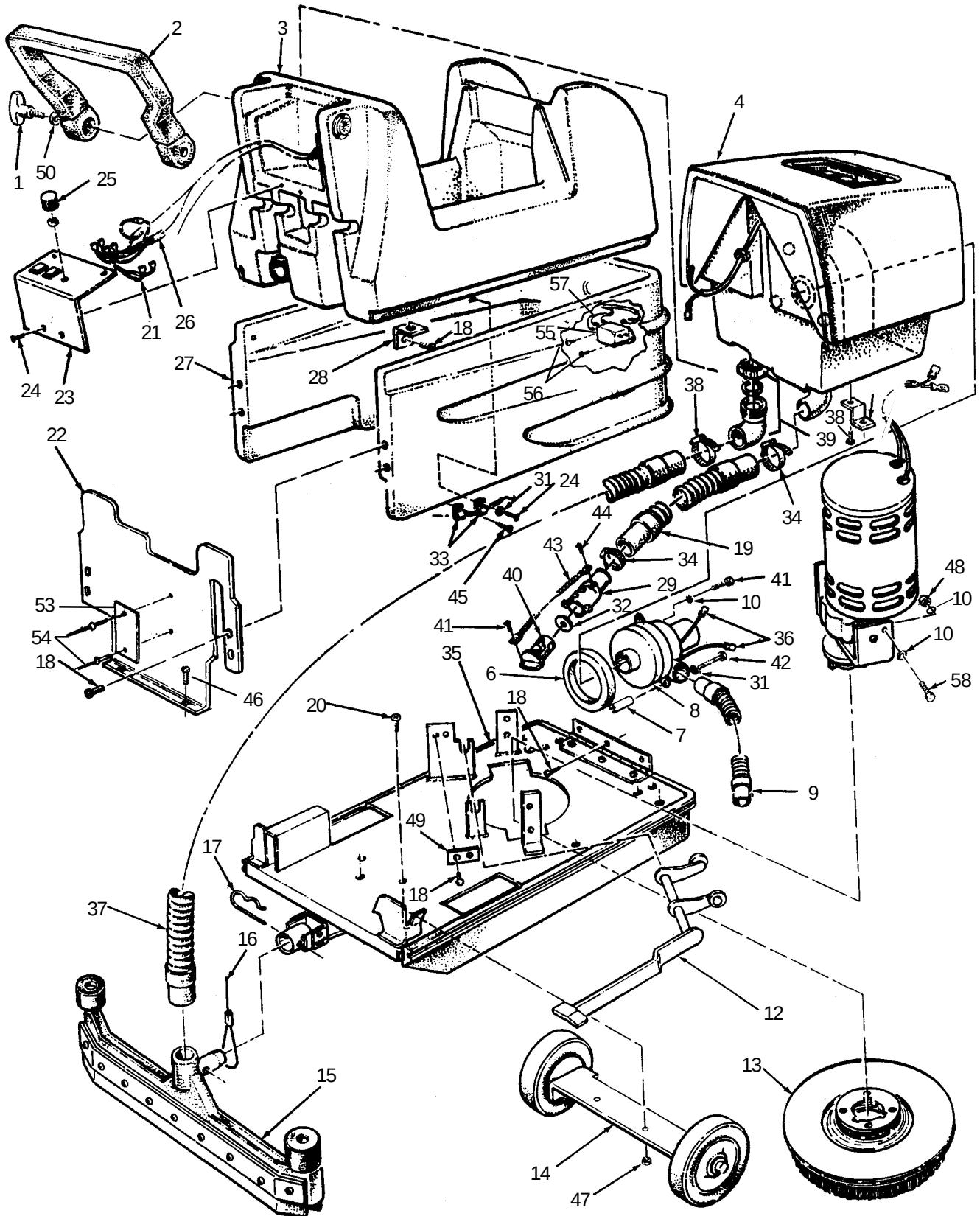


Vision 17E 115V

Section II Parts and Service Manual

(78452B)

CLARKE TECHNOLOGY
Vision17E (230V)
Machine Assembly 2/01

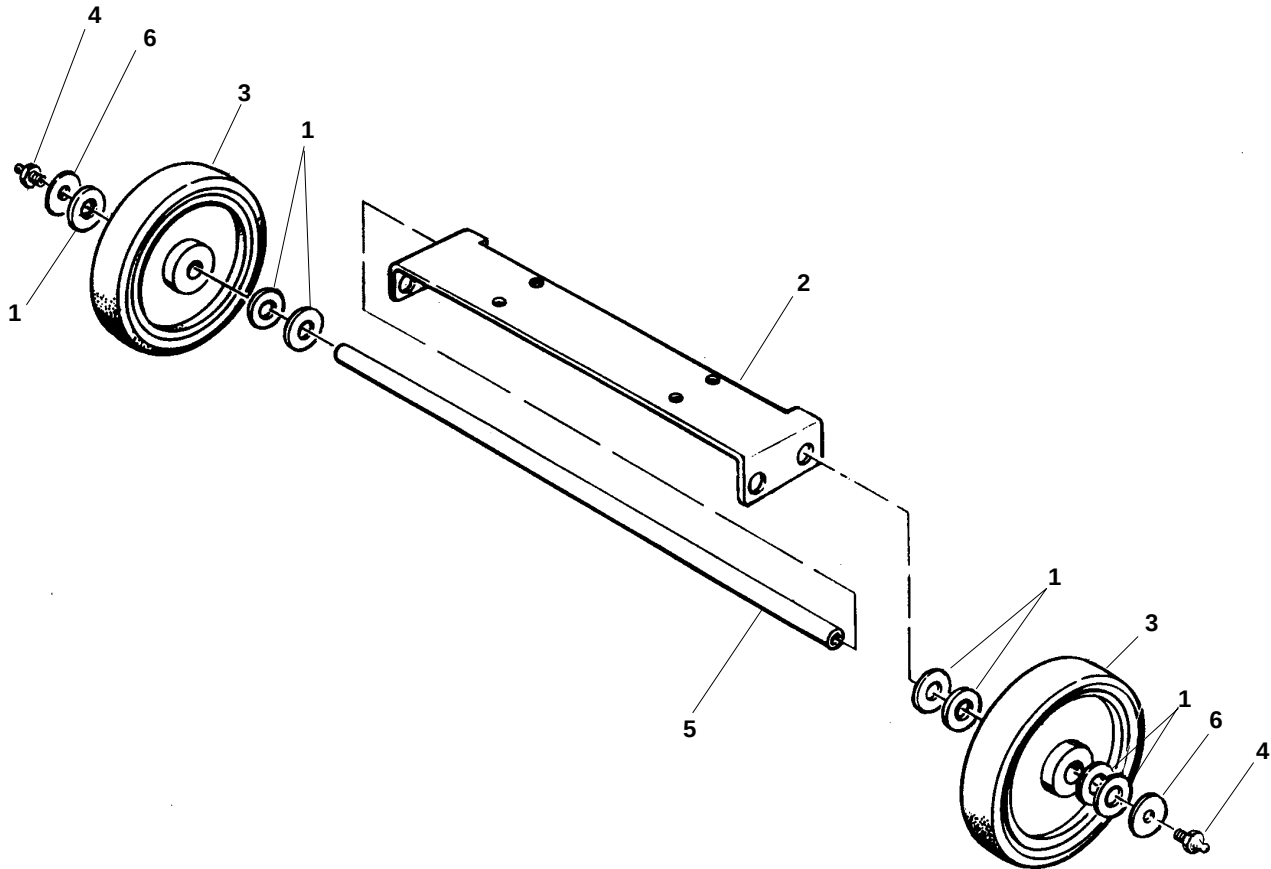


CLARKE TECHNOLOGY
Vision 17E 230V
Machine Assembly Parts List 2/01

Ref	Part No.	Description	Qty
1	55531A	Knob, Handle	2
2	34804A	Handle, Control	1
3	Page 29	ASM, Solution Tank	1
4	Page 30	ASM, Recovery Tank	1
5	Page 26	ASM Brush, 230V Motor	1
6	Page 32	Gear Box Parts List	1
	Page 33	Brush Motor Parts List	
	643418	Gasket Vacuum Motor	
	58534A	Spacer	
7	44907A	Motor, 230V Vacuum	1
8	Page 31	Vacuum Motor Parts List	
9	30448A	Hose, Exhaust, Vacuum	1
10◆	980603	Washer, Shake Proof	3
12	Page 23	ASM, Brush Lift	1
13	Page 15	Pad or Brush Driver	1
14	Page 22	ASM, Non Traverse Electric	1
15	Page 28	ASM, Squeegee	1
16	61664A	Cable, Squeegee	1
17	66515A	Pin, Locking	1
18	85395A	Screw, 1/4 - 20 S.S..	8
19	30415A	Hose, Drain	1
20	84238A	Screw 5/16 Flat	2
21	49691B	Harness, Brush	1
22	37108A	Panel, Rear	1
23	Page 27	ASM, Panel Control 230V	1
24	84237A	Screw, 10 - 32 X 1/2 S.S.	4
25	55502A	Knob, Solution Control	1
26	49690B	Harness, Vacuum Motor	1
27	38952B	Support Tank	1
28	61244A	Bracket Tank	5
29	839401	Valve, Drain	1
31	87026A	Washer	7
32	833407	Gasket, Drain	1
33	832102	Clamp, Solution Cable	2
34	832002	Clamp, Plastic	2
35	Pg 24/25	ASM, Main Frame	1
36	47604A	Terminal ¼ FIMQDIS 14 GA	3
37	30407B	Hose, Squeegee	1
38	752020	Clamp, Hose	1
39	53630A	Elbow, Recovery	1
40	833901	Handle, Drain Valve	1
41◆	962987	Screw	2
42	962950	Screw 1/4 - 20 x 3"	3
43	52206A	Chain	1
44	962943	Screw 8-18 x ½	1
45	962981	Screw	2
46	962109	Screw 10-24	2
47	920110	Nut 5/16 -18 ESNA	2
48◆	920296	Nut 10-24	1
49◆	66939A	Retainer	Ref.
50	980413	Washer	1
51	63040A	Bracket, Recovery	2
53	77261A	Plate, Warning	1
54	83010A	Rivet	2
55	47201A	Supressor (00370E only)	1
56◆	85414A	Screw (00370E only)	2
57	49793A	Harness, Supressor (00370E only)	1
58◆	962768	Screw, 10-24 x ½	1
NI	77094A	Label Ground	2
NI	77078A	Label, Warning	4
NI	77046A	Label, TUV, GS	1
NI	77076A	Label, Warning (Hands)	1

NOTE: ◆ indicates a change has been made since the last publication of this manual.

CLARKETECHNOLOGY
Vision 17E (230V)
ASM, Non Traverse Axle
Drawing & Parts List Form #10510A 2/01



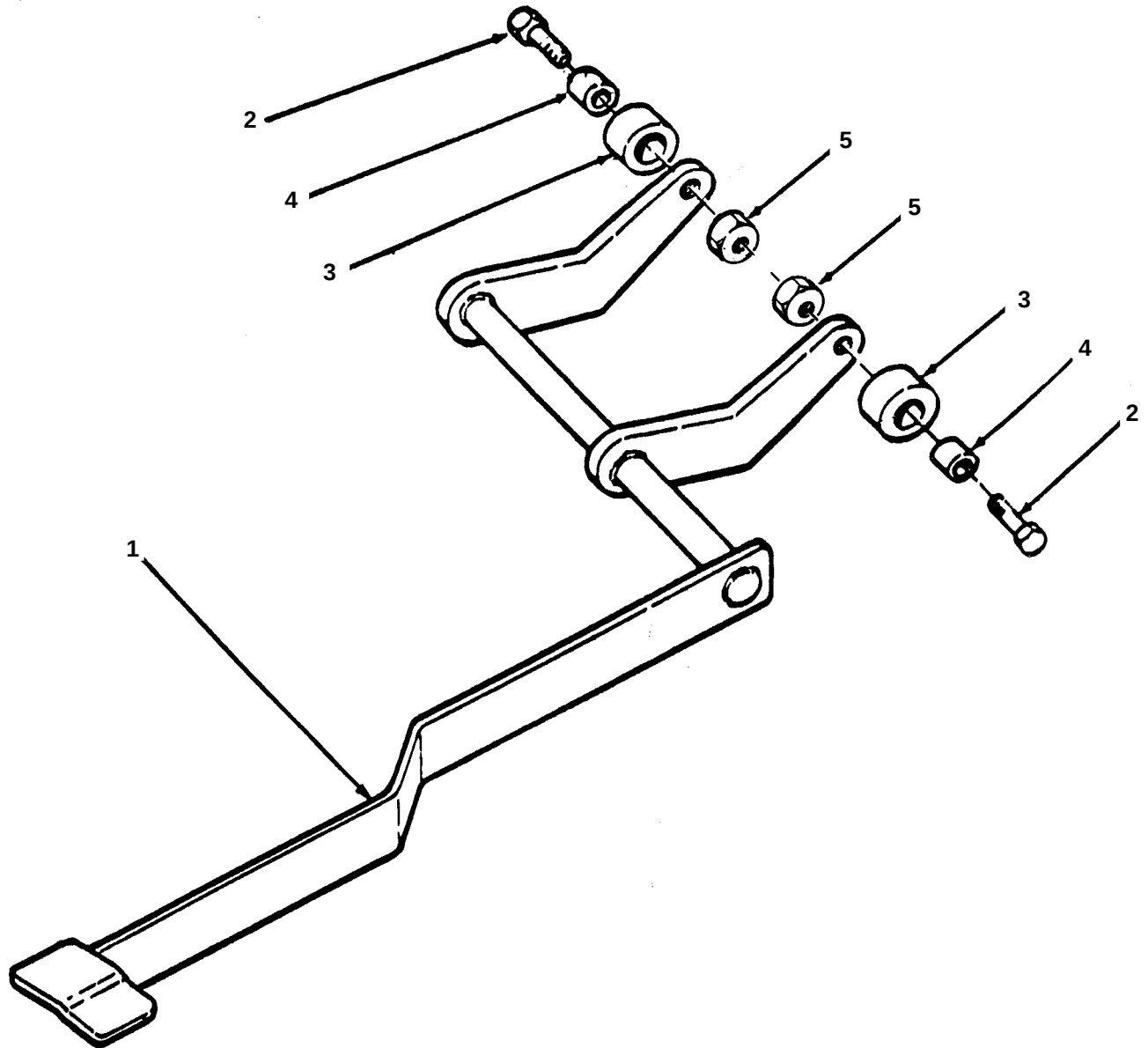
Ref	Part No.	Description	Qty	
1	87613A	Washer, Nylon 5/8	7*	Nominal
2	61247A	Bracket, axle	1	
3	59936C	Wheel	2	
4	54014A	Fitting, Grease, 1/4"-20	2	
5	60196A	Shaft	1	
6♦	87039A	Washer, Fender 1/4" SS	2	

NOTE: Place washers as required to center the wheels
 (Number of washers may vary)

NOTE: Grease wheels once a week.

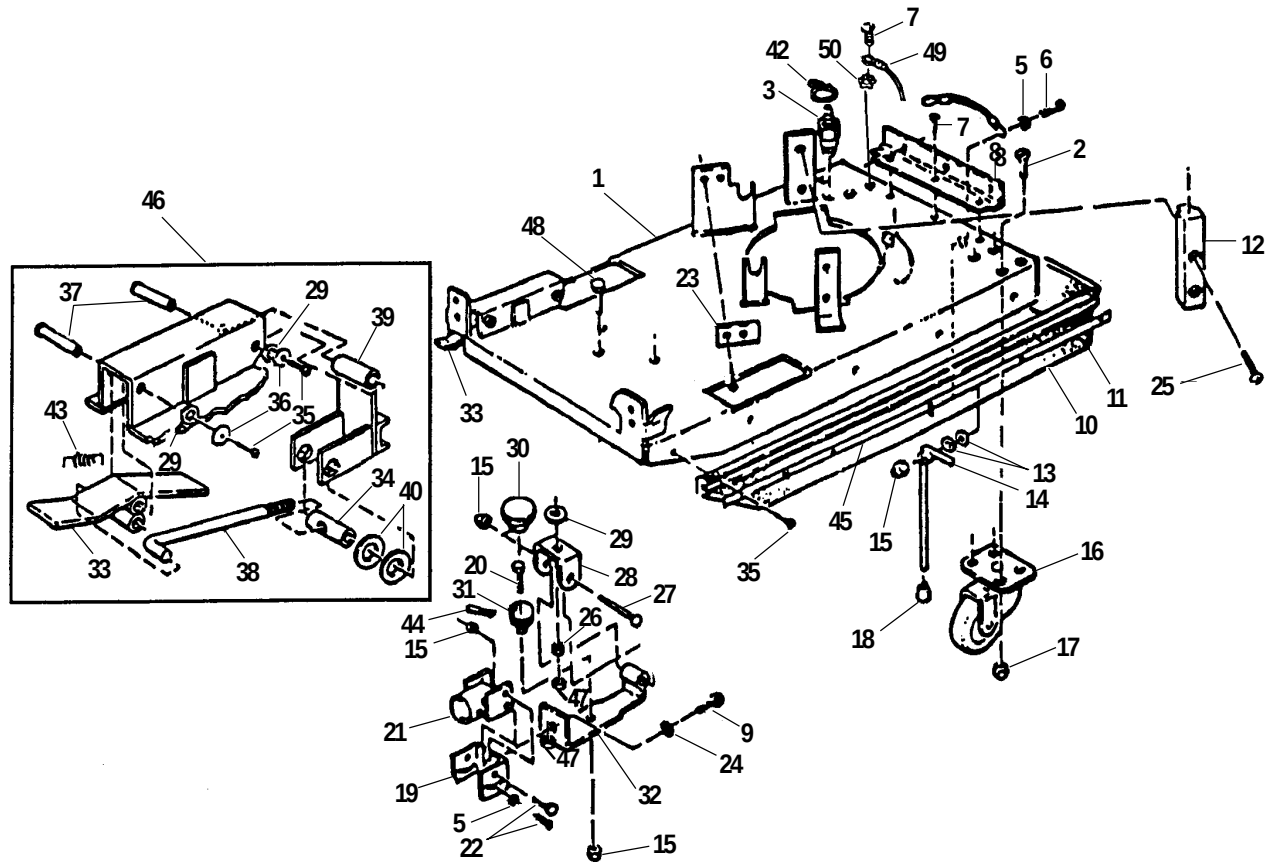
NOTE: ♦ indicates a change has been made since the last
 publication of this manual.

CLARKE TECHNOLOGY
Vision 17E (230V)
Brush Lift Drawing & Parts List 11/98
ASM
Form#16608A



Ref	Part No.	Description	Qty
1	65424A	Lift Brush, Weldment	1
2	85600A	Screw 1/4 - 20	2
3	51516A	Bushing	2
4	608210	Spacer, Handle, Bolt	2
5	920208	Nut, 1/4-20	2

CLARKETECHNOLOGY
Vision 17E (230V)
ASM, Main Frame
Drawing 2/01
Form #16923A



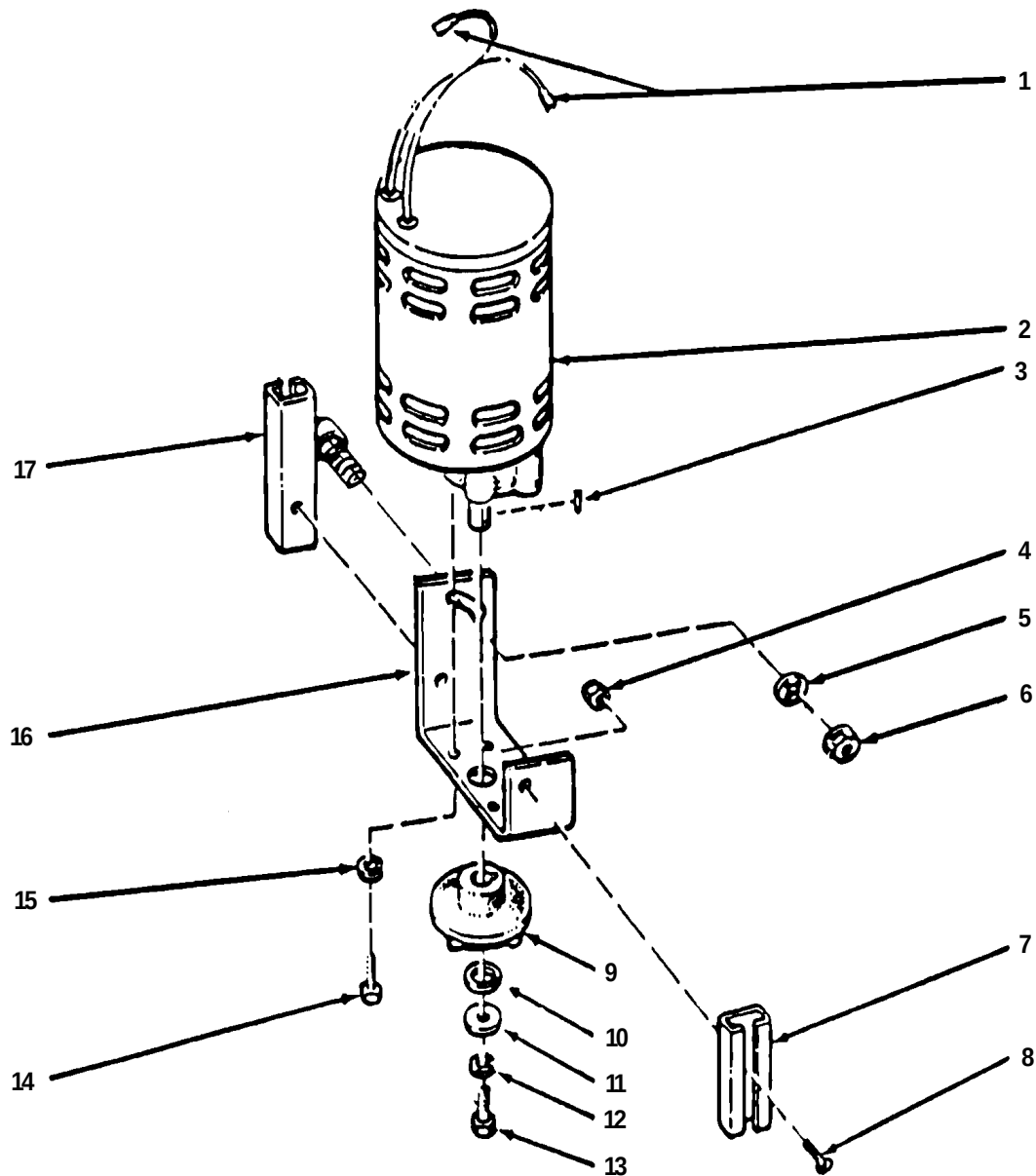
CLARKETECHNOLOGY
Vision 17E (230V)
ASM, Main Frame
Parts List 2/01
Form #16923A

Ref	Part No.	Description	Qty
1	63423B	Weldment, Main Frame	1
2	84238A	Screw $\frac{5}{16}$ -18 x $\frac{3}{4}$ Flat Hd SS	6
3	53618A	Adapter $\frac{3}{8}$ X $\frac{3}{8}$	1
4	64456A	Handle	1
5	87026A	Washer, S.S. $\frac{1}{4}$ " Flat	4
6	85384A	Screw $\frac{1}{4}$ - 20 X $\frac{1}{2}$	2
7◆	85395A	Screw $\frac{1}{4}$ - 20 X $\frac{1}{2}$	6
8	64505A	Hinge Tank	1
9	85822A	Screw $\frac{3}{8}$ -16 x $\frac{7}{8}$	1
10	31227A	Shirt, Main Frame	1
11	66960A	Retainer, Skirt	2
12	38009A	Guide, Plastic	3
13	980442	Wave Washer	2
14	68733A	Kick Stand	1
15	81104A	Nut $\frac{1}{4}$ - 20 Nylock	6
16	52117A	Caster, Swivel	2
17	920110	Nut, $\frac{5}{16}$ - 18 Elastic	6
18	52047A	Cap	1
19	69028A	Wldmt. Squeegee Swival	1
20	85391A	Screw $\frac{1}{4}$ - 20	1
21	60698A	Squeegee, Bracket, Weldment	1
22	170915	Screw $\frac{1}{4}$ -20 x $\frac{3}{4}$	4
23	66939A	Retainer, Motor Pivot	1
24	87614A	Washer $\frac{3}{8}$ Int., Ext.	1
25	84233A	Screw $\frac{1}{4}$ - 20 Flat	6
26	67867A	Nut, Squeegee Spacer	1
27	85396A	Screw	1
28	61252A	Bracket, Swing Squeegee	1
29	87027A	Washer	3
30	30517A	Bushing Squeegee	1
31	58612A	Spring, Squeegee	1
32	68730B	Bracket, Arm Weldment	1
33	10735A	Weldment, Brake, Pedal*	1
34	67422A	Shaft Parking Brake*	1
35	85397A	Screw 10 - 24 X $\frac{3}{8}$ (00370B)*	13
	85397A	Screw 10 - 24 X $\frac{3}{8}$ (00370E)*	15
36	87036A	Washer #10 SS*	2
37	66536A	Pin, Pivot, Brake*	2
38	67133A	Rod, Adj. Brake*	1
39	17519A	Brake, Pad, Weldment*	1
40	87613A	Washer, Nylon*	2
42	722021	Clamp Hose	1
43	608340	Spring, Brake, Latch*	1
44	925597	Pin $\frac{3}{8}$ Dia. SS	1
45	66961A	Retainer Skirt	2
46	10773A	Kit, Parking Brake	Ref
47	81112A	Nut, $\frac{5}{16}$ -18 thin ESNA	1
48	84229A	Screw, $\frac{5}{16}$ -18 x .88	1
49◆	49068A	Wire, Ground	1
50◆	980614	Washer, $\frac{1}{4}$ Starlock	1

NOTE: *Item 29, 35, 36, 37, 38, 39, 40,43 included with Item #46, Parking Brake Kit 10773A. Standard on 00370E only)

NOTE: ◆Indicates a change has taken place since last publication of this manual.

CLARKE TECHNOLOGY
Vision 17E (230V)
Brush Motor Assembly
Drawing and Parts List 2/01
Form #17114A

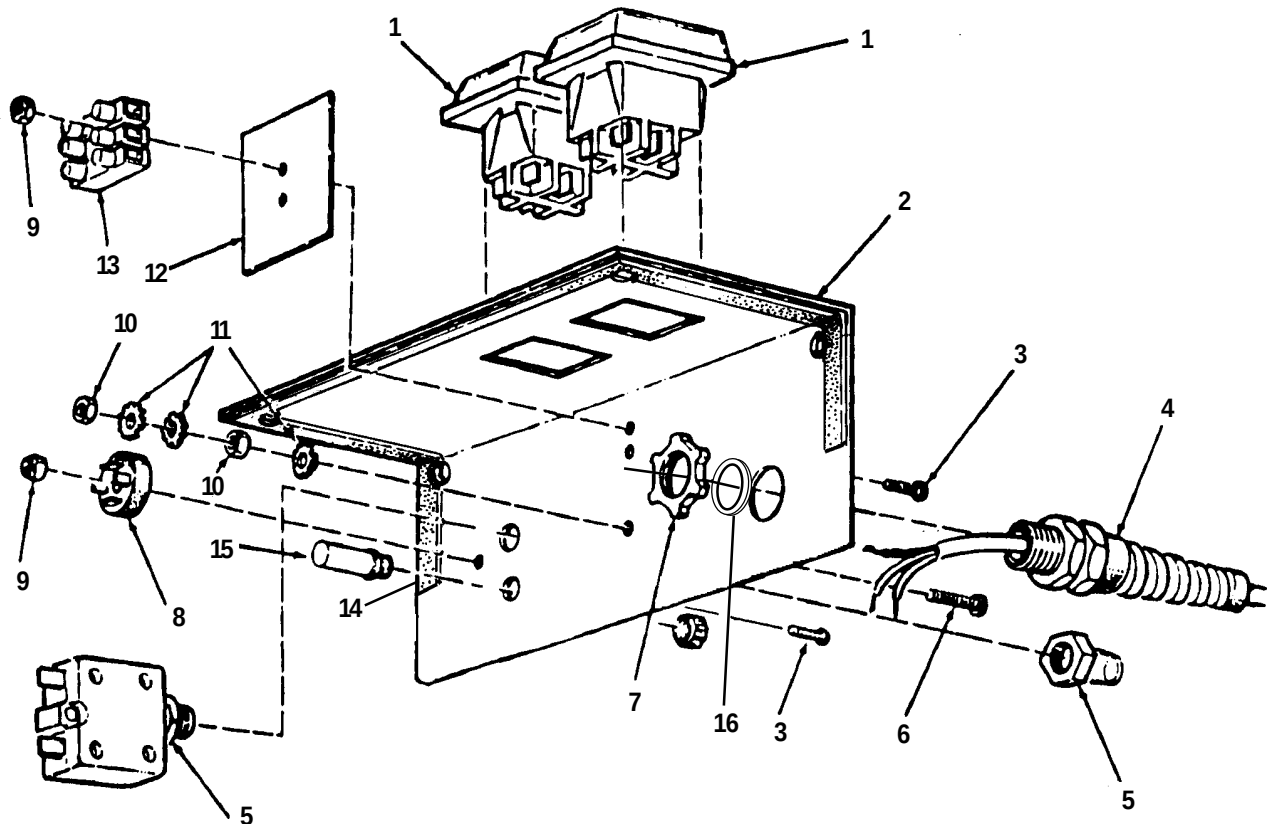


Ref	Part No.	Description	Qty
1	47604A	Terminal, Brush Motor	2
2	44711A	Gear Mtr 250 RPM 230V	1
3	80501A	Key (with #4)	1
4	81104A	Nut 1/4 - 20 Nylock	2
5	980662	Washer	1
6	67865A	Spacer Tilt handle	
7	63600A	Guide RH	1
8	84242A	Screw 1/4 - 20 X 5/8	2
9	20308A	Adapter Motor	1

Ref	Part No.	Description	Qty
10	980679	Spacer Washer	1
11	980210	Washer Impeller	1
12	980652	Washer, Lock 5/16	1
13	85811A	Screw 5/16 Hex	1
14	85727A	Screw 3/8 - 16 X 1 Hex Head	4
15	980638	Lockwasher 3/8	4
16	61238A	Bracket Motor Lift	1
17	68761A	Guide L.H.	1

NOTE: ♦ indicates a change has been made since the last publication of this manual.

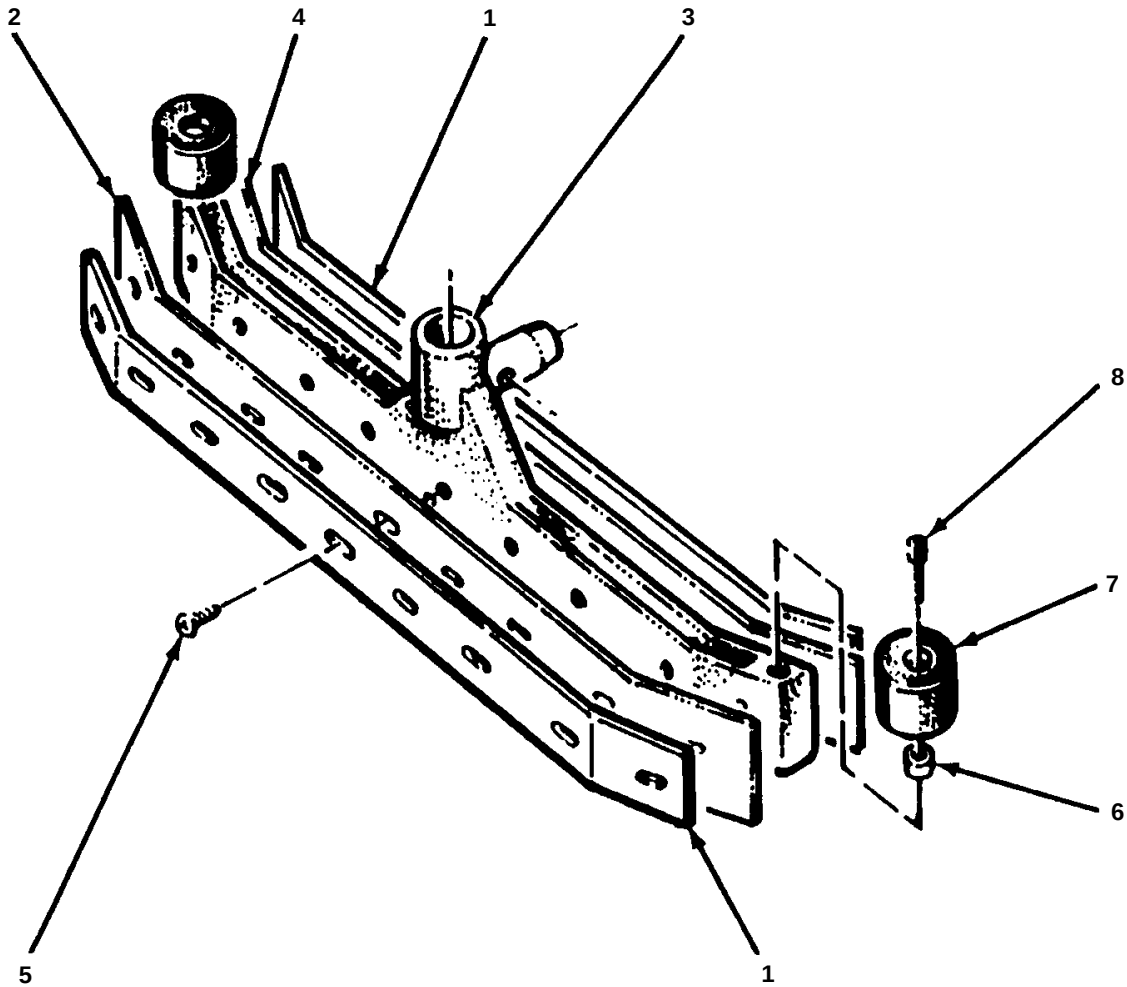
CLARKE TECHNOLOGY
Vision17E (230V)
Panel Assembly
Drawing & Parts List 2/01
Form # 17647A



Ref	Part No.	Description	Qty
1	47316B	Switch, Rocker DPST	2
2	66178B	Panel, Control	1
3	962212	Screw, 6 - 32 X 7/8	3
4	42086A	Cord, Power Supply	1
5	41437A	Circuit, Breaker 5 amps	1
6	85383A	Screw, 10 - 32 X 3/4	1
7	82100A	Locknut, 1/2 Conduit	1
8	46103A	Rectifier, Bridge	1
9	920056	Nut 6 - 32 Elastic	3
10	920224	Nut, 10 - 32 Hex	2
11	980603	Washer, Shakeproof #1103	2
12	43604A	Strip, Insulation	1
13	912059	Terminal, Block	1
14	54349A	Gasket	1
15	912201	Fuse Holder	1
16◆	170870	Washer	1
NI	42909A	Fuse	
NI	49689B	Harness, Wiring Power	1
NI	77094A	Label, Ground	1
NI	699202	Tie, Wire	2
NI	47808A	Terminal ¼ FIFQDIC	2
NI	49064A	Wire Jumper	1

NOTE: ◆ indicates a change has been made since the last publication of this manual.

CLARKE TECHNOLOGY
Vision 17E (230V)
Squeegee Assembly Drawing & Parts List 11/98
Form 18809A

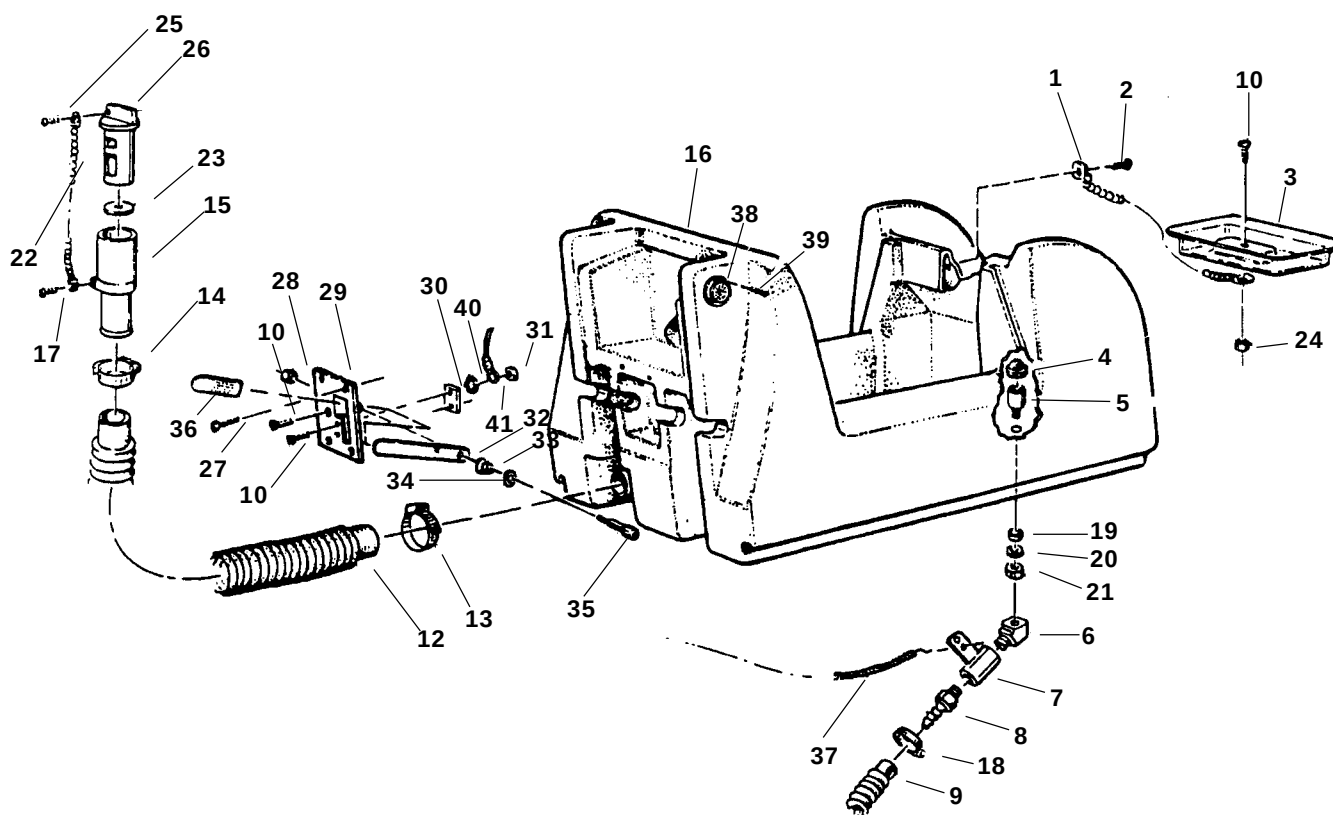


Ref	Part No.	Description	Qty
1	66921B	Retainer, Squeegee	2
2	30902A	Blade, Squeegee Rear	2
3	27703A	Squeegee, Casting	1
4	30903A	Blade, Squeegee Front	1
5	85398A	Screw 1/4 - 20 X 1/2	18
6	838201	Spacer, Wheel Guide	2
7	839702	Wheel, Brush Guide	2
8	962841	Screw, 5/16 - 18 x 1 1/4	2

Blades Available:

30918A	Blade, Sq., Front Nitrile/EPDM	1
30919A	Blade, Sq., Rear Nitrile/EPDM	1

CLARKE TECHNOLOGY
Vision 17E (230V)
Solution Tank Assembly
Drawing & Parts List 2/01
Form #19169A

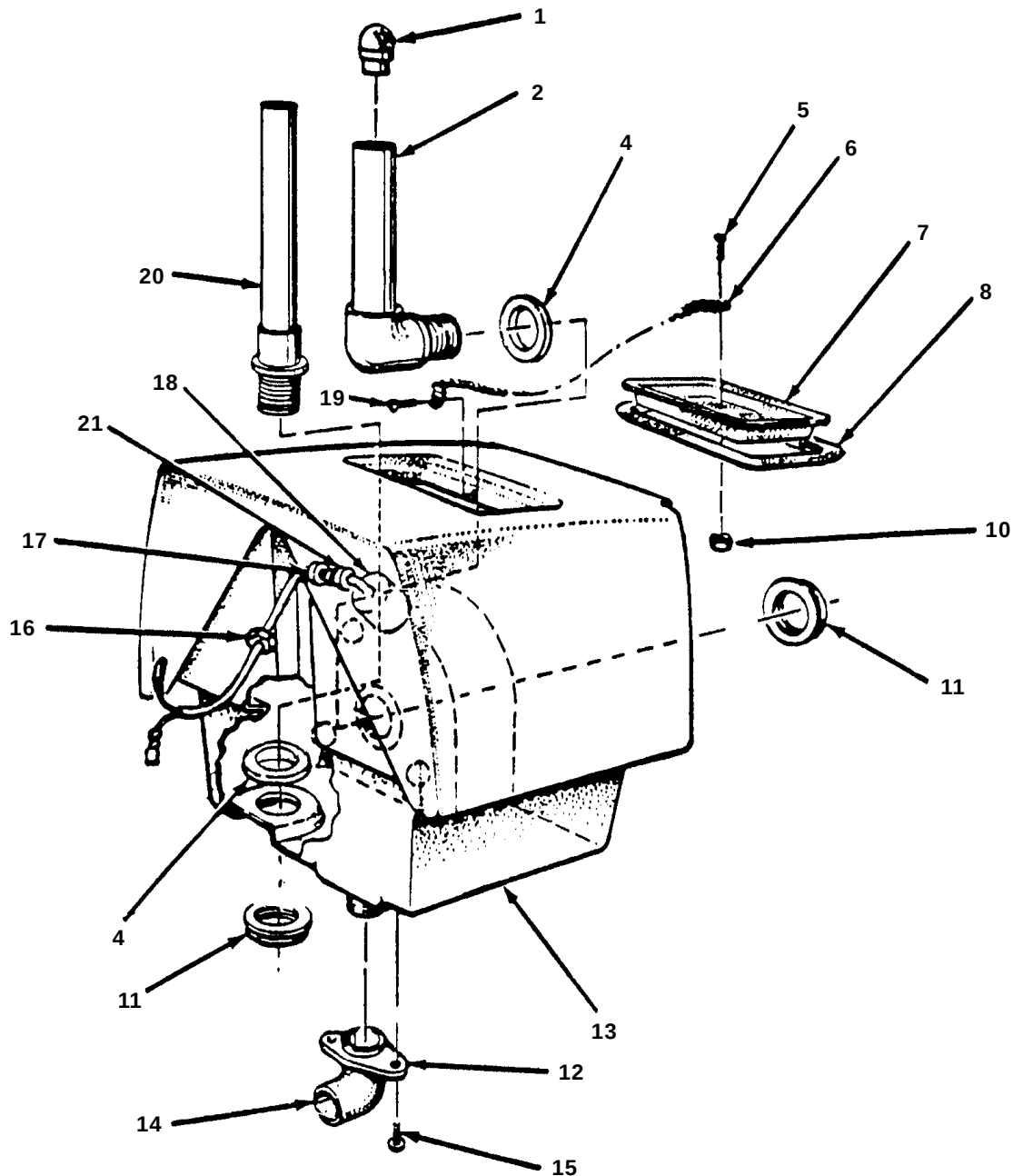


Ref	Part No.	Description	Qty
1	692409	Chain Cover	1
2	85519A	Screw 1/4 - 20 X 3/8	1
3	832322	Cover, Sol. Tank	1
4	878535	Strainer, Sol. Tank	1
5	60317A	Adapter, Filter	1
6	53614A	Elbow, Solution	1
7	849401	Valve, Solution	1
8	53618A	Adapter, 3/8 x 3/8	1
9	35138A	Hose, Solution	1
10	962798	Screw 10-24 X 1/2	1
12	30416A	Hose, Drain	1
13	752020	Clamp, Hose	1
14	832002	Clamp, Hose	1
15	839401	Drain	1
16	38964B	Tank, Solution	1
17	962943	Screw	1
18	722021	Clamp, Hose	1
19	833401	Gasket, Drain	1

NOTE: ♦ indicates a change has been made since the last publication of this manual.

Ref	Part No.	Description	Qty
20	980630	Washer	1
21	920264	Nut 3/4 - 16 Hex	1
22	52206A	Chain, Cover	1
23	833407	Gasket, Drain	1
24♦	81110A	Nut, 10-24	1
25	962987	Screw, 10-24 x 3/8	1
26	833901	Handle, Drain Valve	1
27	84237A	Screw, 10-32 x 1/2	2
28	81217A	Nut 1/4-20 Nylock	1
29	68762A	Plate, Squeegee Lift	1
30	68646A	Plate, Wear	1
31	81110A	Nut, 10-24 Nylock S.S.	2
32	64476A	Handle, Squeegee Lift	1
33	53030A	Spring, Taper	1
34	980651	Washer	1
35	80031A	Bolt, Shoulder	1
36	52755A	Cover, Handle	1
37	52503A	Cable, Solution	1
38	36101A	Ratchet, Handle	2
39	84236A	Screw, 6-32	6
40♦	980603	Washer, Shakeproof	1
41♦	49067A	Wire, 18" Gauge	1

CLARKETECHNOLOGY
Vision 17E (230V)
Recovery Tank Assembly
Drawing & Parts List 2/01
Form#19170A

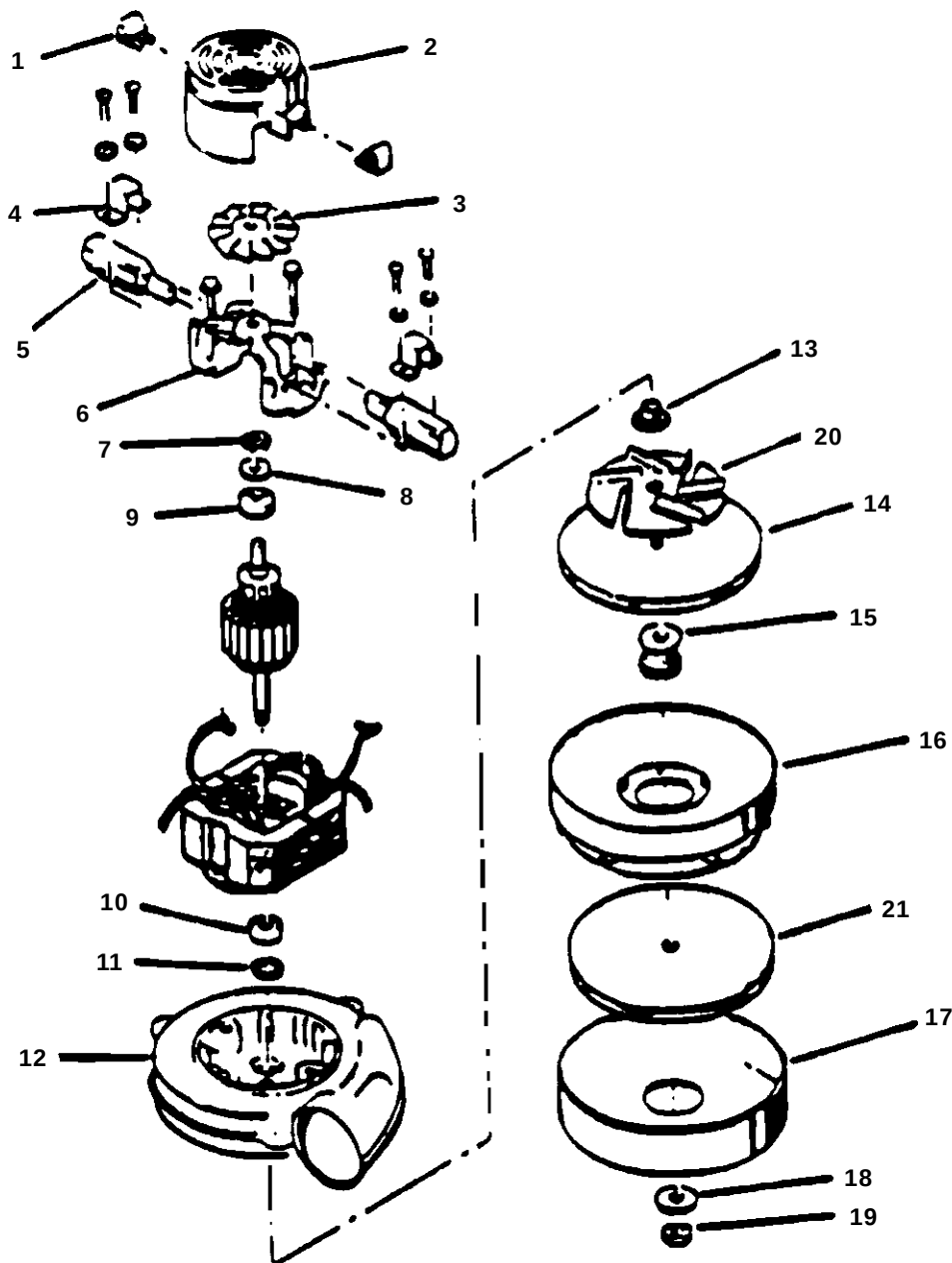


Ref	Part No.	Description	Qty
1	58012A	Strainer, Rec. Tank	1
2	59314A	Tube, Stand, Recovery	1
4	837304	O'Ring Seal	2
5	962798	Screw, 10-24 x 1/2	1
6	692409	Chain, Cover	1
7	832322	Cover, Solution Tank	1
8	34256A	Gasket, Rec. Drain	1
10◆	81110A	Nut 10-24	1
11	920797	Nut, Drain Valve Lock	2
12	66933A	Elbow, Retainer	1

Ref	Part No.	Description	Qty
13	38966B	Tank, Recovery	1
14	53629A	Elbow, recovery Drain	1
15	85395A	Screw, 1/4-20 x 1/2	2
16	82100A	Nut, 1/2 Conduit	1
17	87612A	Seal, Washer	1
18	14092A	Switch, Float Shut-Off	1
19	85519A	Screw, 1/4-20 x 3/8	1
20	39323A	Tube, Recovery	1
21	56459A	Strainer, Relief	1
N	51828A	Strap, Hose	2

NOTE: ◆ indicates a change has been made since the last publication of this manual.

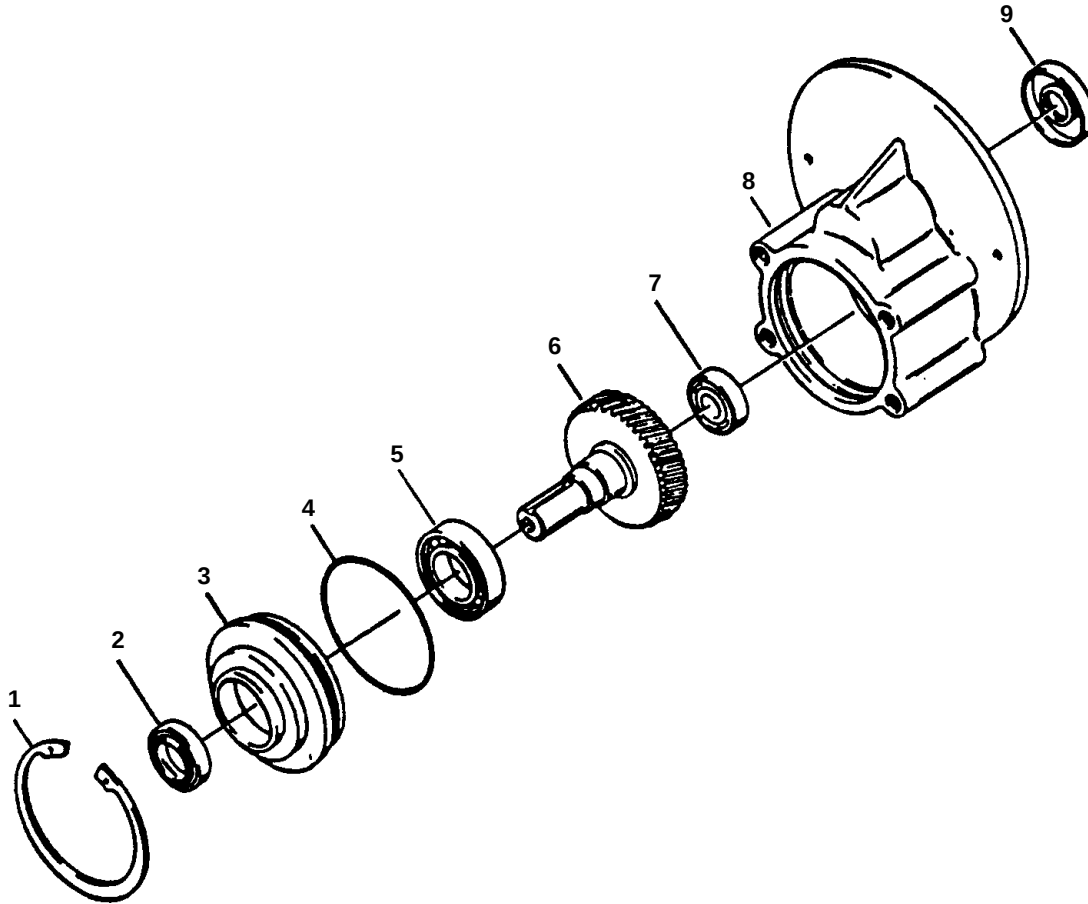
CLARKETECHNOLOGY
Vision 17E (230V)
Vacuum Motor
Drawing & Parts List 11/93
Form #44907A



Ref #	Part No.	Description	Qty
1		not available	
2	54809A	Housing - Vent	1
3	53905A	Fan	2
4	51914A	Clamp	2
5	51401A	Carbon Brushes 230V	2
6	50618A	Commutator End Bracket	1
7	638313	Load Spring	1
8	53100A	Disc	1
9	902679	Ball Bearing	1
10	902648	Ball Bearing	1
11	59803A	Neoprene Washer	1

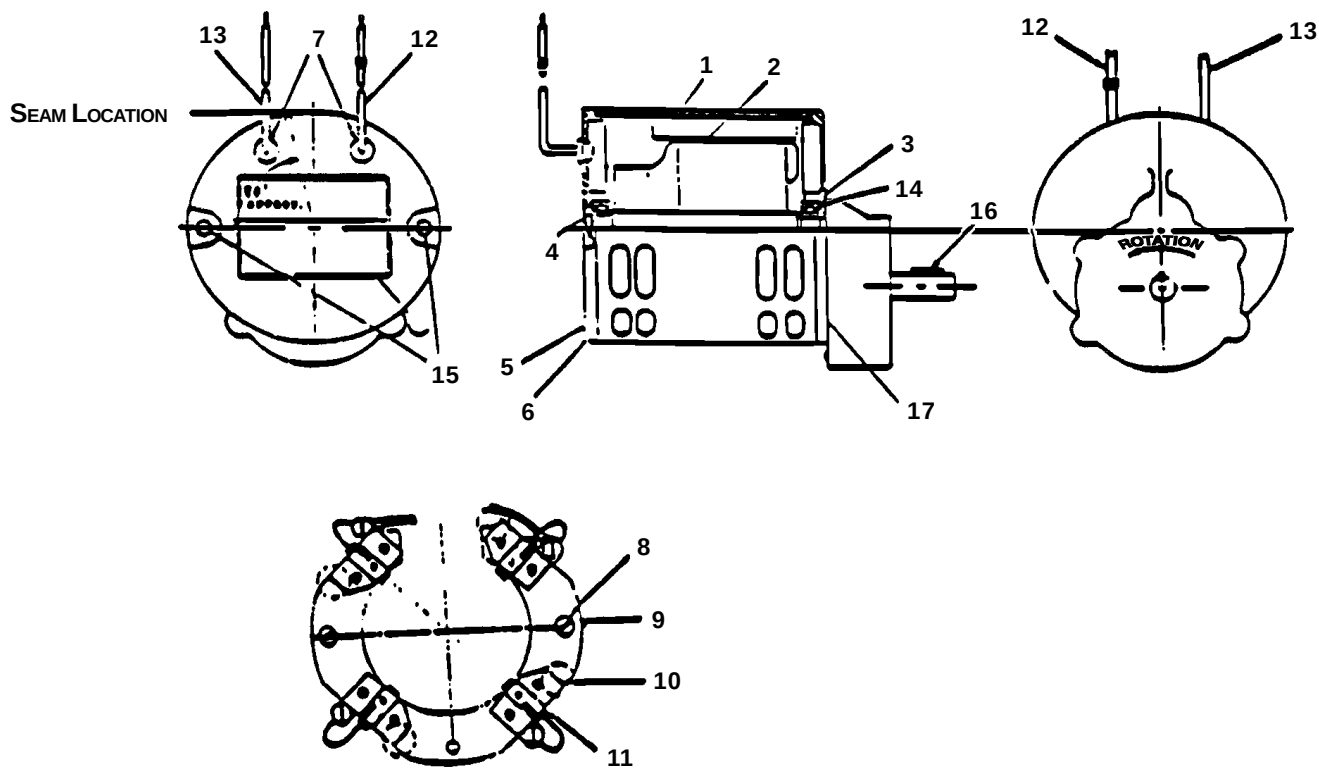
Ref #	Part No.	Description	Qty
12	50610A	Fan End Bracket	1
13	58501A	Spacer	1
14	53914A	Vacuum Fan	2
15	658201	Spacer	1
16	53908A	Stationary Fan	1
17	57904A	Fan Shell	1
18	980205	Washer	1
19	920329	Nut	1
20	53906A	Fan	1
21	53914A	Fan - Rotating	1

CLARKE TECHNOLOGY
Vision 17E (230V)
ASM, Gear Box #54238A
Drawing & Parts List 11/93



Ref	Part No.	Description	Qty
1	57846A	Ring, Snap	1
2	58143A	Seal, Oil, Small	1
3	52050A	Cap End	1
4	56668A	O - Ring	1
5	51176A	Bearing, Large	1
6	58316A	Shaft and Gear	1
7	902605	Bearing, Small	1
8	54883A	Housing	1
9	58144A	Seal, Oil Large	1
NI		Grease	1oz

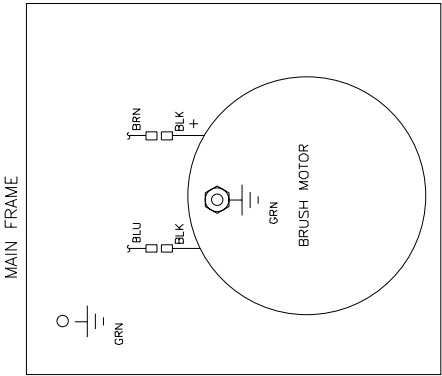
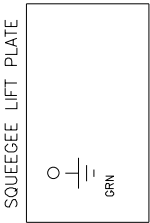
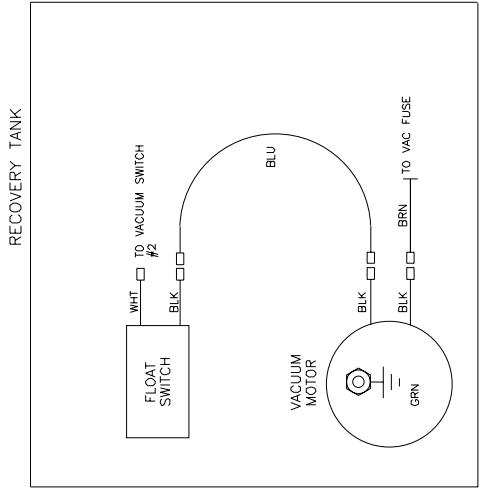
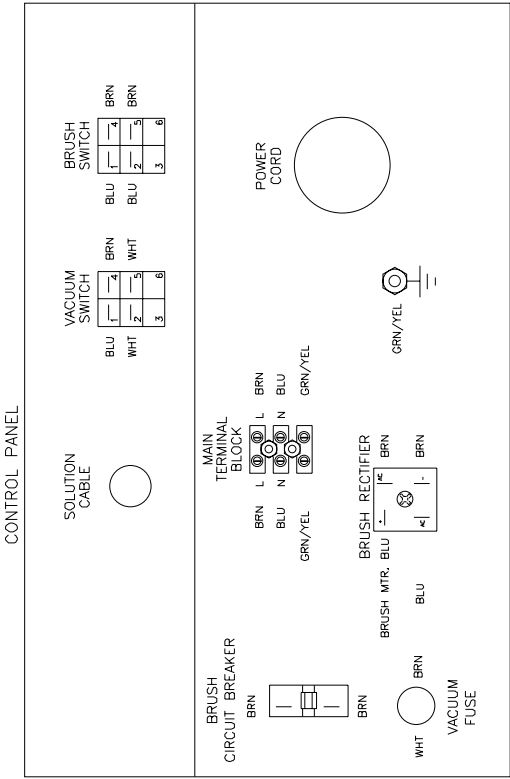
CLARKE TECHNOLOGY
Vision 17E (230V)
Brush Motor 44711A
Parts List 8/97



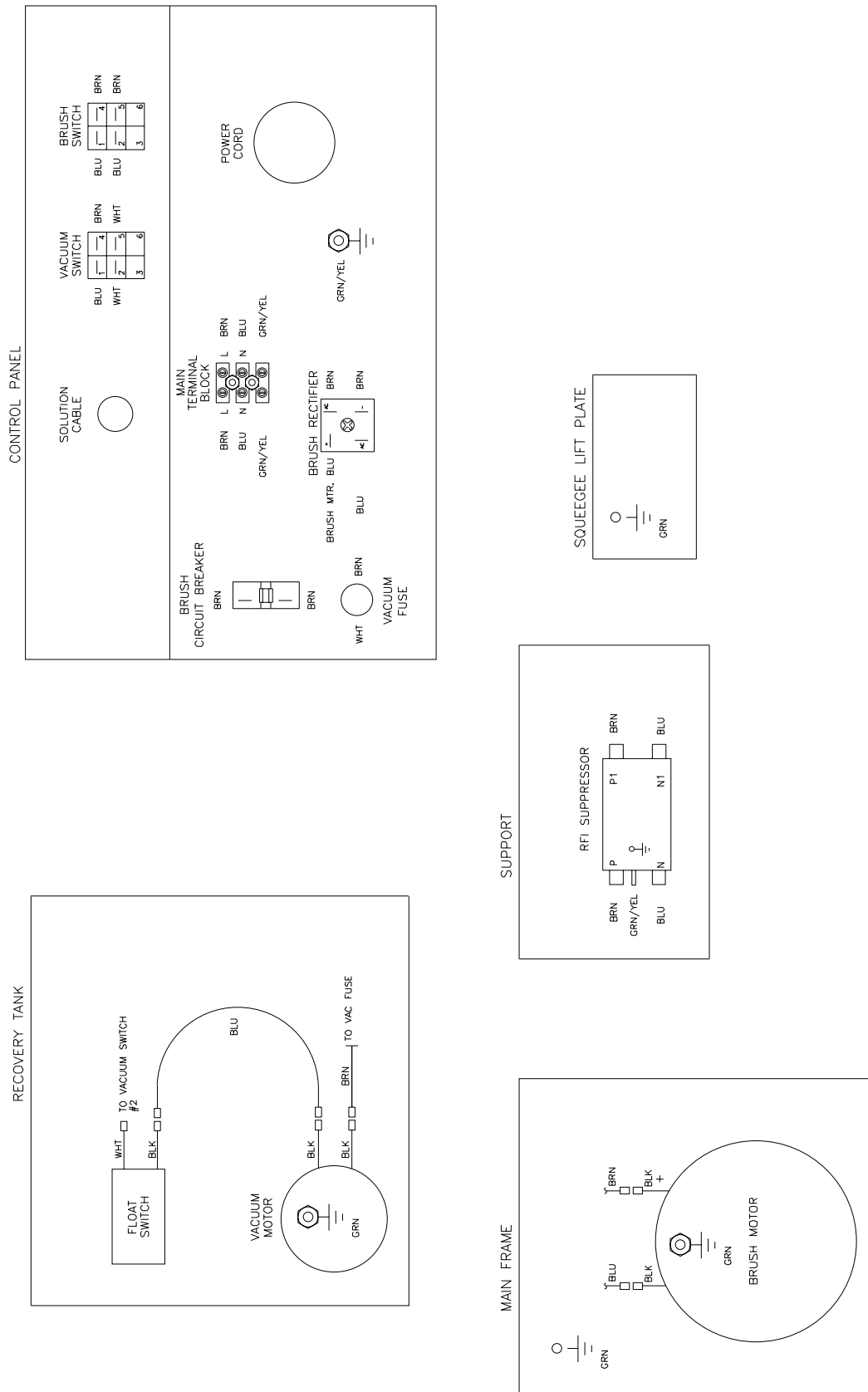
Item	Part No.	Description	Qty
1	56477A	Stator Frame Assembly (w/Magnets & Clips)	1
2	50140A	Armature Assembly (w. B.E. & F.E. Bearings)	1
3	902654	Bearings B.E.	1
4	902550	Bearing F.E.	1
5	51837A	Commutator Bracket Assembly (w/Brush BRD Assembly Leads)	1
6	50520A	Commutator Bracket	1
7	56480A	Strain Relief	2
8	962546	Brush Board Screw	2
9	50519A	Brush Board Assembly (w/ Springs & Brushes)	1
10	448396	Brush Spring	4
11	40819A	Brush Assembly	4
12	55654A	Lead Assembly	1
13	55655A	Lead Assembly	1
14	59805A	Helical Washer	1
15	50515A	Thru Bolt	2
16	80501A	Shaft Key	1
17	54238A	B.E. Bracket Assembly (Gear Box)	1

The diagram illustrates the electrical connections for the vacuum motor and brush squeegee lift. The power supply cord (GRN/YEL, BRN, BLU) enters from the left, with the BLU line labeled as the "PLUG". The BLU line passes through a "VACUUM SWITCH" and a "FUSE" before reaching the "VACUUM MOTOR". The BRN line passes through a "FLOAT SWITCH" and a "CIRCUIT BREAKER" before reaching the "RECTIFIER". The GRN/YEL line is grounded. The "RECTIFIER" is connected to the "BRUSH SWITCH" and the "BRUSH SQUEEGEE LIFT". The "BRUSH SQUEEGEE LIFT" is connected to the "FRAME" and the "PLATE". The "VACUUM MOTOR" is connected to the "FRAME" and the "PLATE". The "BRUSH SQUEEGEE LIFT" is connected to the "FRAME" and the "PLATE". The "VACUUM MOTOR" is connected to the "FRAME" and the "PLATE".

CLARKTECHNOLOGY
Vision 17E
Model #00370B - 230V Connection Diagram 2/01



CLARKETECHNOLOGY
Vision 17E (230V Europe)
Model #00370E - Connection Diagram 2/01



NOTE

[illegible]