

Table 4-1
Dade® Automatic Centrifuge II
Base Plate - Exploded View
(Fig. 4-1) Parts List

Index No.	Spare Parts List Reference	Description	Qty.	Index No.	Spare Parts List Reference	Description	Qty.
1	**	Base plate inseparable assembly	1	47	63	Hex nut #10-32	1
2	47	Foot, molded	2	48	21	Terminal block (TB1)	1
3	63	Screw #8-32 x 3/8" long pan head	21	49	55	Fuse holder 115V = 1 230V = 2	
4	48	Foot, adjustable	2	50	59	Fuse, slow-blo 3.2A (F1) (115V)	1
5	63	Hex jam nut #1/4-20	2	51	60	Fuse, slow-blo 1.5A (F1, F2) (230V)	2
6	1	Pump-head add-on	1	52	**	Hole plug (115V only)	1
*6a	1	Impeller, saline pump (part of Item 6)	1	53	22, 23, 52	Potentiometer 5K (R3)	1
*6b	63	Screw (part of Item 6)	1	54	22, 23, 51	Potentiometer 5K (R1)	1
7	63	Screw, fill, head #8-32 x 2.625" long	2	55	22, 23, 50	Potentiometer 10K (R2)	1
8	63	Lock washer, split #8	21	56	**	Knob, round	1
9	63	Flat washer #8	21	57	**	Shaft knob, lock	1
10	B5054-23	Tubing 9-15/16" long	1	58	27	Switch (S2, S3)	2
11	29	Male elbow	2	59	19	Switch guard	1
12	29	Tube fitting	2	60	55	Power line filter	1
13	29	Saline detector assembly	1	61	63	Hex nut #4-40	2
13a	29	Body, saline detector	1	62	43	Arc suppressor assembly	1
14	63	Screw, flat head #6-32 x .75" long	2	63	57	Arc suppressor assembly	1
15	12	Retainer, switch	1	64	57	Arc suppressor assembly	1
16	63, 29	Screw, flat head #4-40 x 1/4" long	2	65	**	Fuse warning label	1
17	29	Switch assembly	1	66	**	Label fuse, 3.2 amp	1
18	29	Magnet, modified	1	67	**	Speeds adjust label	1
19	55	Photon coupled interrupter (U2)	1	68	**	Label, pump setting	1
20	63	Screw, pan head, #4-40 x 3/8" long	6	69	**	Decant speed adj. label	1
21	63	Lock washer #4	4	70	**	Saline override label	1
22	63	Flat washer #4	4	71	**	Saline override position label	1
23	**	Mounting plate assembly	1	72	**	Label 1.5 amp (230V)	2
24	**	Coupling center	1				
25	**	Disk encoder	1				
26	63	Screw, pan head, #4-40 x .188" long	3				
27	20	Coupling pump and motor	1				
28	63	Screw, socket set	1				
29	16, 31	Pump motor 115V (B2)	1				
or	17, 45	Pump motor 230V (B2)	1				
30	16, 17	Bracket, pump motor assembly	1				
31	22, 23	Terminal block (TB2)	1				
32	63	Screw #6-32 x 3/4" long pan head	4				
33	63	Lock washer, split #6	13				
34	63	Flat washer #6	13				
35	61	Solid state relay (SSR1)	1				
36	63	Screw #6-32 x 5/16" long pan head	9				
37	**	Sonalert (LS1)	1				
*37a	**	Cap, retaining (part of item 37)	1				
38	43, 57	Relay (K1, K2)	2				
39	55	Bridge rectifier (BR1)	1				
40	26	Power supply 5V (PS1)	1				
41	22, 53	Transformer (T1)	1				
42	55	Capacitor (C1)	1				
43	**	Clamp, capacitor	1				
44	63	Screw, #10-32 x 3/4" long, pan head	1				
45	63	Lock washer #10	1				
46	63	Flat washer #10	1				

Items Not Illustrated

21	Jumper assembly (white)	1
21	Jumper assembly (black)	1 (115V)
**	Line filter/fuse wire assembly	1 (230V)
**	Terminal strip/line filter wire assembly	1 (115V)
**	Varistor assembly	1 (230V)
21	Varistor assembly	1 (115V)
25	Transformer harness assembly	1
**	Fuse/terminal strip wire assembly	1 (230V)
22, 23	DC/signal harness assembly	1
21	AC harness assembly	1

*NPN stands for no part number. Parts designated NPN are part of the next higher assembly and a separate part number has not been assigned.

**Not available, unsalable.

Table 4-2
Dade® Automatic Centrifuge II
DAC II - B5054-2 Spare Parts List

Part Number	Description	Part Number	Description
1. S23050-100	Pump Head, Peristaltic	54. SB53451	Service/Operators Manual
2. S23187-001	Distributor and Nozzle Assy. (Rotor)	55. S45164-001	Spare Parts DAC II Kit*
3. S23246-100	Center Coupling (saline pump)	56. S45165-001	Brush Holder Kit*
4. S23265-001	10 mm Tube Insert Kit (12 ea.)	57. S45166-001	Reversing Relay Kit (relay & arc suppressors)
5. S23283-100	Drive Motor	58. S45167-001	Fuses Kit, 10A (5 ea.)
6. S45009-001	Electromagnet Assy.	59. S45168-001	Fuses Kit, 3.2A (5 ea.)
7. S45010-001	Lid Latch Assy. (110 vac)	60. S45169-001	Fuses Kit, 1.5A (5 ea.)
8. S45010-003	Lid Latch (DC current version)	61. S45170-001	Solid State Relay Kit (1 ea., AC pump relay and DC lid lock relay)
9. S45012-001	Housing (case, beige)	62. S45172-001	Power Transistor Kit*
10. S45014-001	Front Panel Assy. (brn.)	63. S45171-001	DAC II Hardware Kit*
11. S45031-100	Liner, Lid		
12. S45035-100	Switch Retainer		
13. S45038-001	Liner, Bowl (brn.)		
14. S45041-100	Spring, Cover		
15. S45044-100	Window, Lid		
16. S45046-001	Pump Motor and Encoder 110V		
17. S45046-002	Pump Motor and Encoder 220V		
18. S45050-001	Counter Disc Encoder		
19. S45054-100	Switch Guard (saline override)		
20. S45056-001	Pump Coupling Assembly (Encoder)		
21. S45058-001	AC Harness Assy.		
22. S45059-001	DC Harness Assy. for S/N under 1800		
23. S45059-002	DC Harness Assy. for S/N over 1800		
24. S45060-001	Transistor Harness		
25. S45061-001	Transformer/Harness Assy.		
26. S45062-001	Power Supply, 5V (ps1)		
27. S45063-001	Lid Sensor/Harness Assy. (U3)		
28. S45064	Lid Switch/Harness Assy.		
29. S45075-001	Saline Detector Assy.		
26. S45078-001	Cable Assembly/Power Switch		
27. S45079-001	Switch Assy. (test tube size select & saline override)		
28. S45080-002	Front Panel Assy., gray		
29. S45081-100	Skirt, Splash Guard		
30. S45082-100	Skirt Retainer		
31. S45091-100	Pump Motor (115 vac)		
32. S45094-100	Boot, Motor Mounting Hub		
33. S45098-001	Brush Kit, Drive Motor (2 ea.)		
34. S45099-001	Brush Kit Magnet (2 ea.)		
35. S45105-001	Spare Parts DAC II Kit* (as shipped w/new unit)		
36. S45111-001	Output Tubing Assembly (tubing, male elbow, tubing connector)		
37. S45119-001	Saline Valve		
38. S45122-001	Main PCB		
39. S45135-001	Lid Stop		
40. S45136-001	Housing, gray		
41. S45137-001	Cover, gray		
42. S45139-001	Liner Bowl, gray		
43. S45142-001	Brake Relay/Arc Suppressor Kit (relay & extra arc suppressor)		
44. S45162-100	Lid Gasket —		
45. S45173-002	Pump Motor 220V		
46. S05630	Isolation Mount		
47. S1211	Moulded Foot		
48. S12112	Leveling Foot		
50. S18548	Potentiometer 5K (R2)		
51. S18549	Potentiometer 5K (R1)		
52. S18550	Potentiometer 10K (R3)		
53. S29519	Transformer (T1)		

*** KIT CONTENTS:**

S45105-001 SPARE PARTS KIT

Distributor brush (1 ea.)
Fuses: 2 ea. 3.2A Slo-blo (domestic)
2 ea. 10A Slo-blo (all)
Pump tubing (1 ea.)
Cable tie (lg) (2 ea.)
Cable tie (sm) (2 ea.)
Silicon grease (1 ea.)

S45164-001 SPARE PARTS KIT

Potentiometer (R2) (1 ea.)
Potentiometer (R1) (1 ea.)
Potentiometer (R3) (1 ea.)
Switch (saline override and tube size select) (2 ea.)
Fuse holder (1 ea.)
Capacitor (C1) (1 ea.)
Bridge rectifier (BR1) (1 ea.)
Lid springs (4 ea.)
Line filter (1 ea.)
Foot, molded (2 ea.)
Foot, adjustable (2 ea.)
Hexseal (5 ea.)
Photon coupled interruptor (5 ea.)
Lid lock solenoid (1 ea.)

BRUSH HOLDER KIT

Cap (2 ea.)
Holder (2 ea.)
Insulator (2 ea.)
Seal (2 ea.)
Screw (2 ea.)
Flatwasher (2 ea.)

POWER TRANSISTOR KIT

Power transistor (Q1A & Q1B) (2 ea.)
Power transistor (Q2 & Q3) (2 ea.)
Insulator (4 ea.)
Spacer (8 ea.)
Teflon tubing (8 ea.)

HARDWARE KIT

All screws (5 ea.)
All washers (10 ea.)
All nuts (10 ea.)

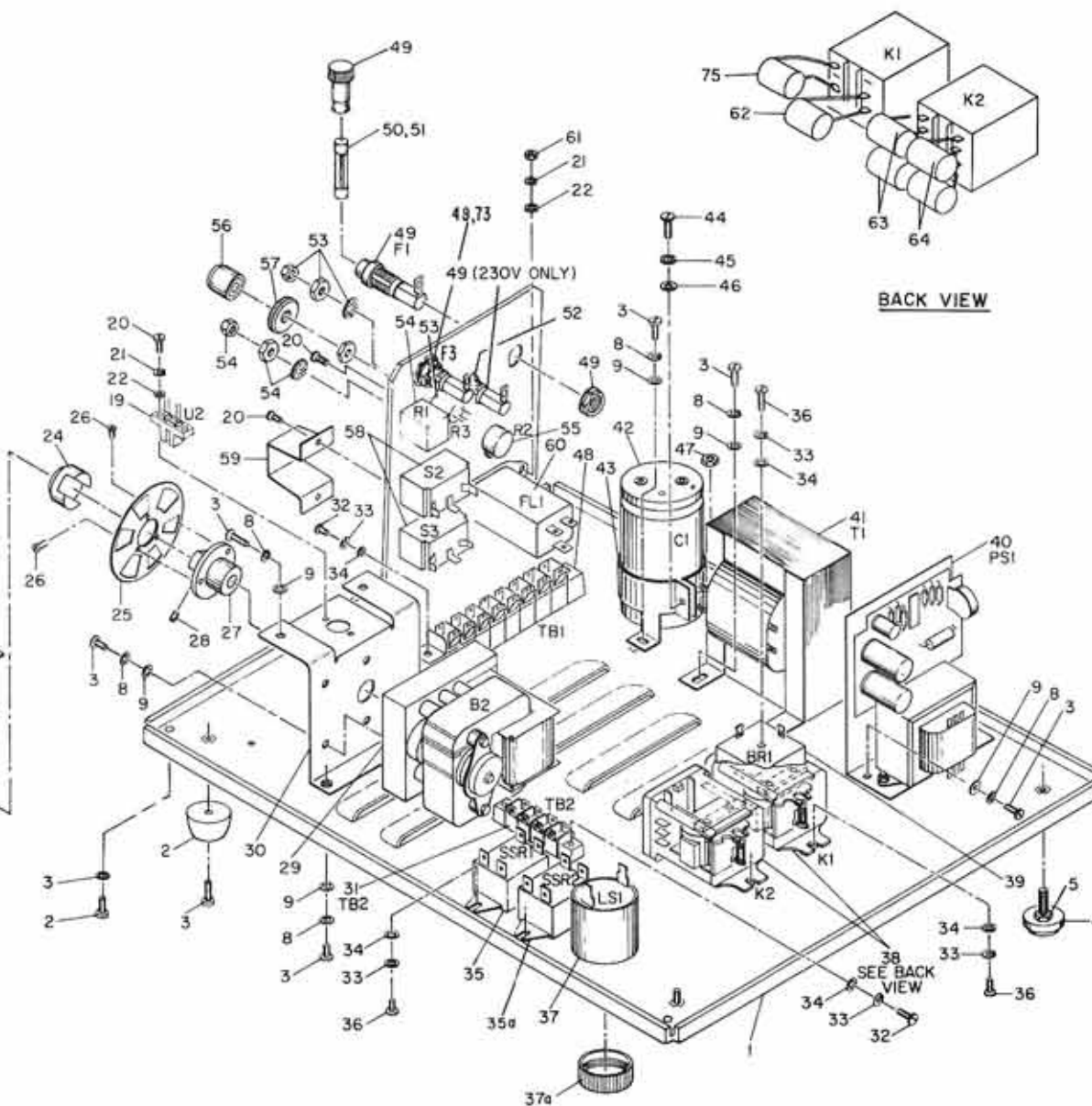
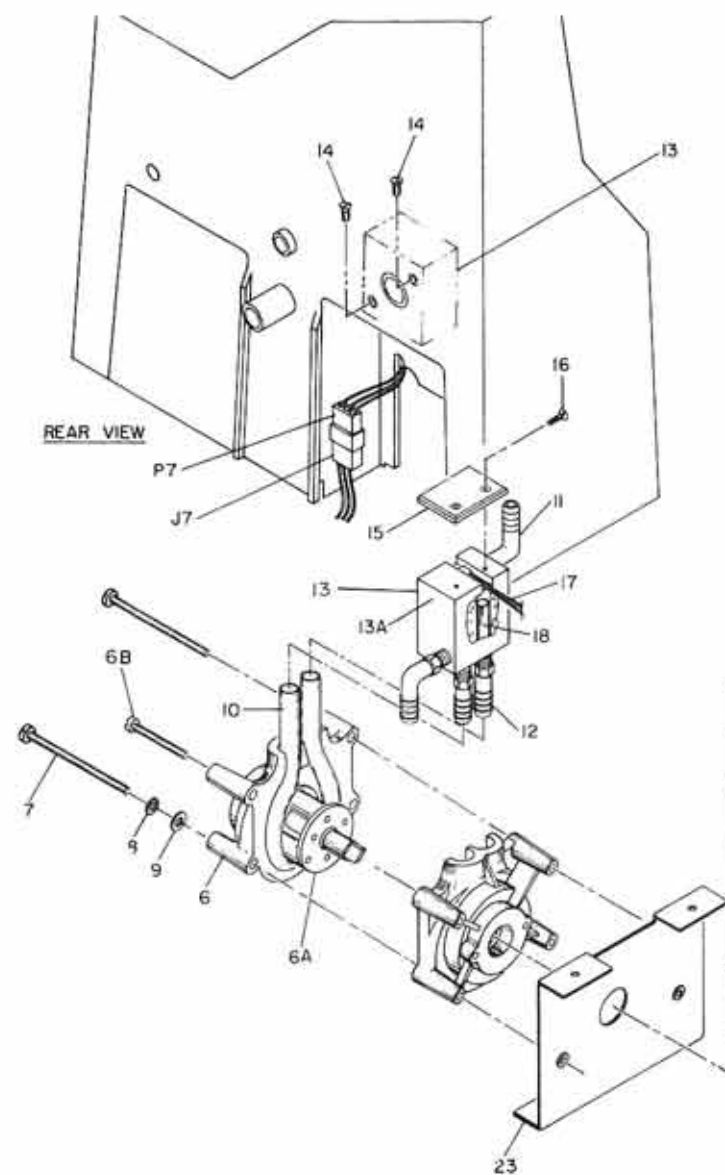
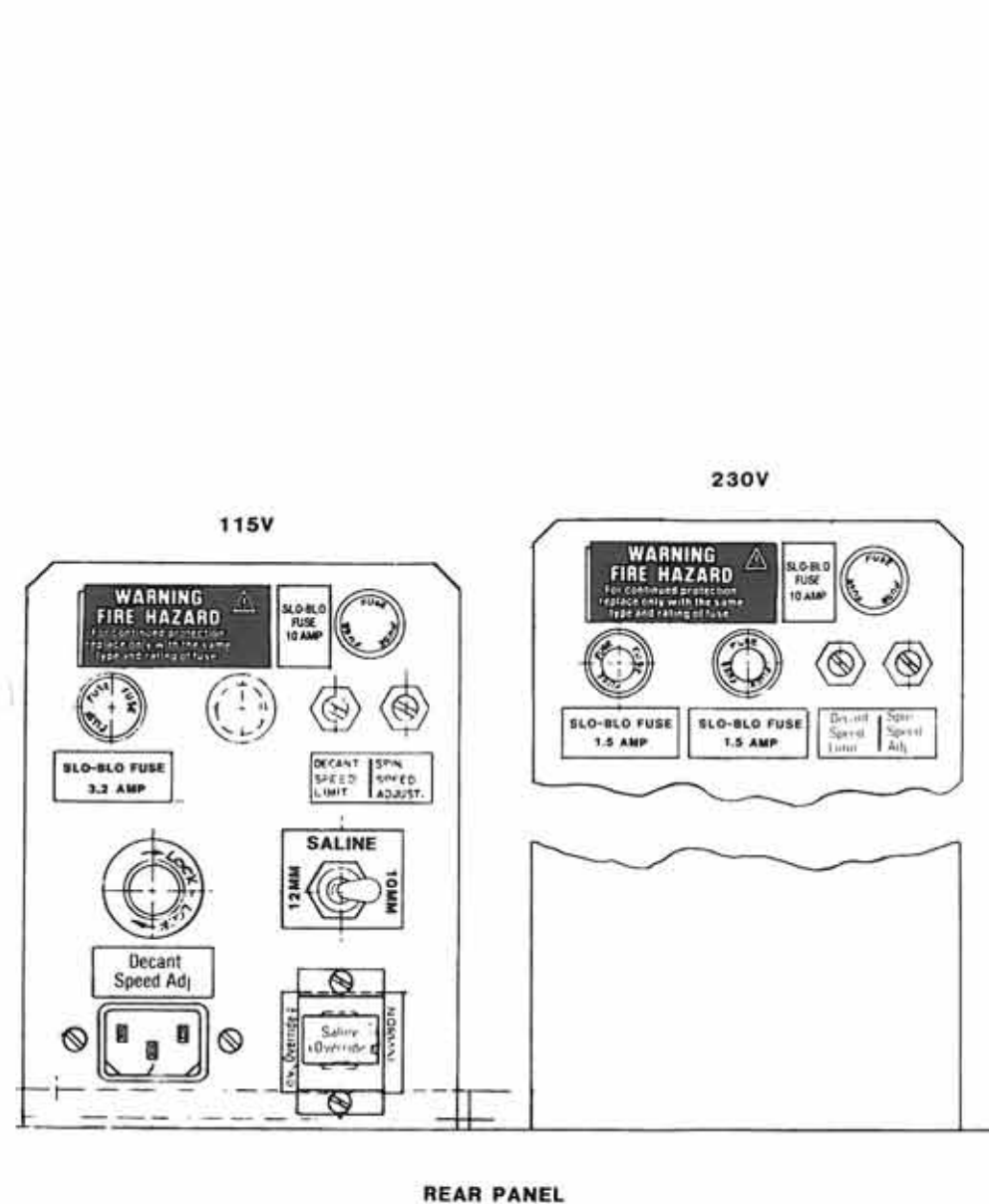


Figure 4-1. Dade® Automatic Centrifuge II
Base Plate Exploded View

Table 4-3
Dade® Automatic Centrifuge II
Housing - Exploded View
(Fig. 4-2)

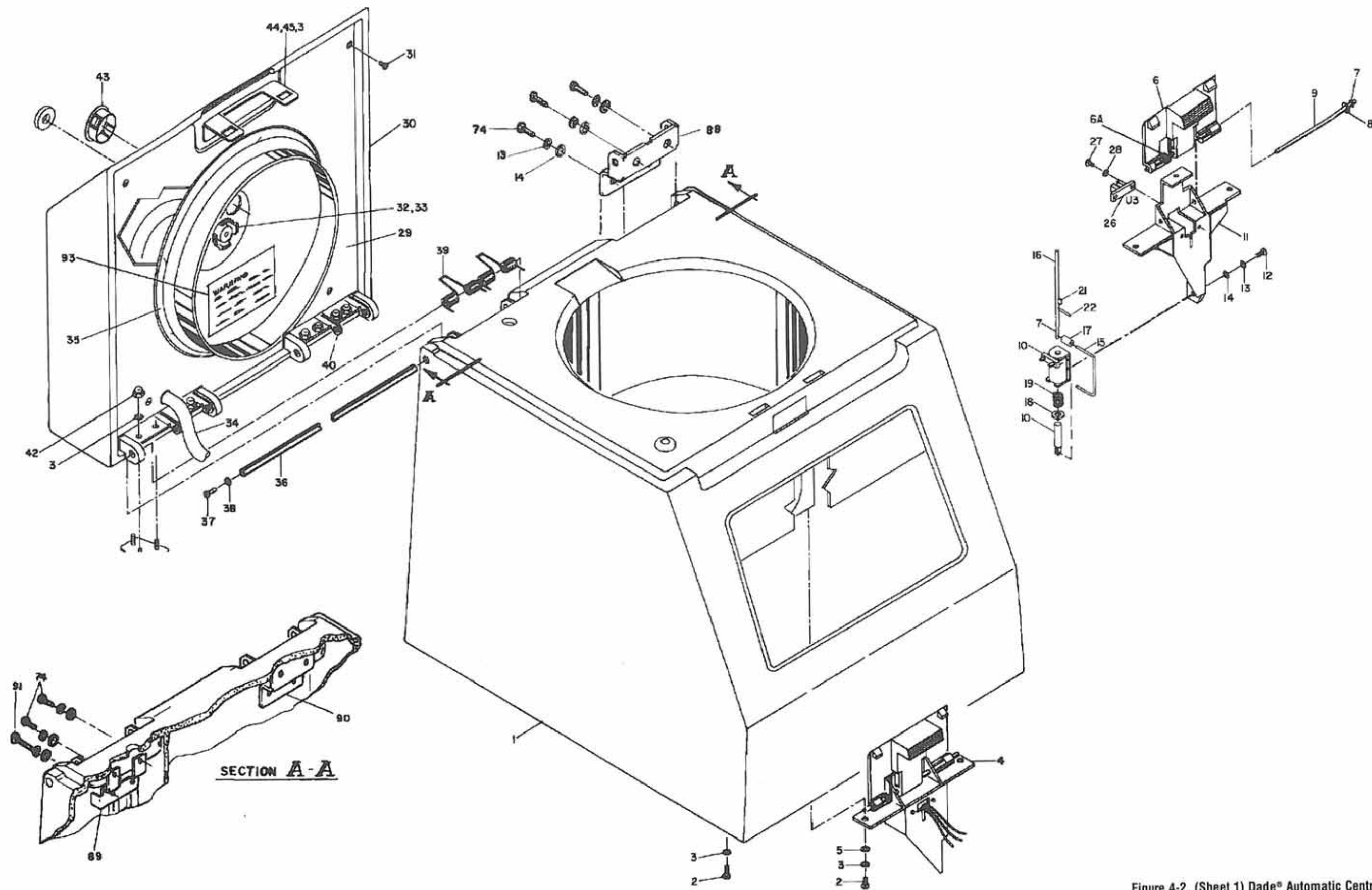
Index No.	Spare Parts List Reference	Description	Qty.	Index No.	Spare Parts List Reference	Description	Qty.
1	40	Housing, inseparable assembly	1	51	63	Flat washer, nylon	1
2	63	Screw, pan head, #8-32 x 1/2" long	9	52	28	Lid switch harness assembly	1
3	63	Lockwasher, split #8	23	54	10, 28	Front panel label assembly	1
4	7, 8	Lid latch assembly	1	55	38	Main PCB	1
5	63	Flat washer #8	4	56	**	Bracket, retainer, front panel	1
6	7, 8	Button	1	57	**	Plate, support	1
6a	7, 8	Spring	1	58	63	Screw, Hex head, 1/4-20 x .75" long	4
7	7, 8	Rod, lid lock	1	59	63	Lock washer, extension tooth	10
8	7, 8	Shim, nylon	2	60	62	Power transistor yellow dot (Q2, Q3)	2
9	7, 8	Pin, latch	1	61	62	Teflon tubing 7/32" long	8
10	8	Solenoid (36VDC) (L1)	1	62	62	Thermal insulator	4
11	7, 8	Bracket, latch	1	63	63	Screw, sheet metal, #6-32 x 5/8" long	8
12	7, 8, 63	Screw, pan head #6-32 x 1/4" long	8	64	62	Spacer, nylon	8
13	7, 8, 63	Lock washer, split #6	12	65	24	Transistor mounting skirt	4
14	7, 8, 63	Flat washer #6	16	66	63	Screw, pan head, #4-40 x 1/2" long	8
15	7, 8	Solenoid link	1	67	63	Hex nut, #4-40	8
16	7, 8	Rod, lid lock assembly (includes Items 7, 21 and 22)	1	68	**	Hub, motor mounting	1
17	7, 8	Link, spacer	1	69	**	Shear sandwich	3
18	7, 8	Washer, spring	1	70	**	Hex nut # 1/4 - 20	6
19	7, 8	Spring, solenoid	1	71	34	Brush, magnet, kit	1
21	7, 8	Flag, molded	1	72	56	Brush holder	2
22	7, 8	Roll pin 5/8" long	1	72a	56	Cap, brush holder	2
26	7, 8, 27	Lid sensor harness assembly (U3)	1	73	56	Key, insulator	2
27	7, 8, 63	Screw, pan head, #4-40 x 5/16" long	2	74	63	Screw, #6-32 x 5/8" long	8
28	7, 8, 63	Lock washer, #4	11	75	5	Drive motor (B1)	1
29	11	Liner, lid, assembly	1	75a	**	Brush cap (part of Item 75)	2
30	41	Cover, molded	1	76	33	Brush motor kit	1
31	63	Screw, flat head #8-32 x 1/2" long	4	77	55	Photon coupler interrupter (UI)	1
32	36	Tubing connector	1	78	63	Screw, pan head, #4-40 x 1/4" long	1
33	36	Male elbow	1	79	18	Counter disk assembly	1
34	36	Tubing, 12 - 1/2" long	1	80	63	Screw, flat head, #6-32 x 5/16" long	1
35	44	"O" - ring	1	81	**	Bracket, RPM counter	1
36	**	Rod, hinge	1	82	**	Screw, flat head, #8-32 x 1-1/8" long	3
37	63	Screw, binding, head #4-40 x 1/4" long	2	83	**	Ground strap assembly	1
38	63	Flat washer #4	10	84	32	Boot, hub, motor mounting	1
39	14	Spring, cover	4	85	24	Resistor .1 ohm, 10 watt, 1%	2
40	*	Bracket, hinge cover	4	86	63	Screw #2-56 x .38" long, SST	4
41	*	Back-up plate, hinge	4	87	63	Lock washer, split, #2	4
42	63	Cap nut #8-32, unc - 2B	1	88	**	Hinge nest	2
43	**	Hole plug	1	89	**	Nut plate, offset	1
44	**	Catch	1	90	**	Nut plate	1
45	63	Screw, pan head, #8-32 x 3/8" long	4	91	63	Screw, pan head, #6-32 x 1.00" long	2
46	B5054-10	Rotor assembly	1	92	92	Seal brush holder	2
47	42	Liner, bowl, inseparable assembly	1	93	13, 42	Warning label, removable bowl	1
48	6	Electro-magnet assembly	1	94	**	Caution label	1
48a	29	Skirt, splash guard	1	95	**	Saline warning label	1
48b	30	Retainer, skirt	1	96	62	Power transistor, blue dot (Q1A, Q1B)	2
48c	63	Screw, flat head #4-40 x .19" long	8				
49	63	Screw, socket head cap	1				
50	63	Washer, flat #8 SST	1				

*NPN stands for no part number (see Table 4-1)

**Not available, unsalable.

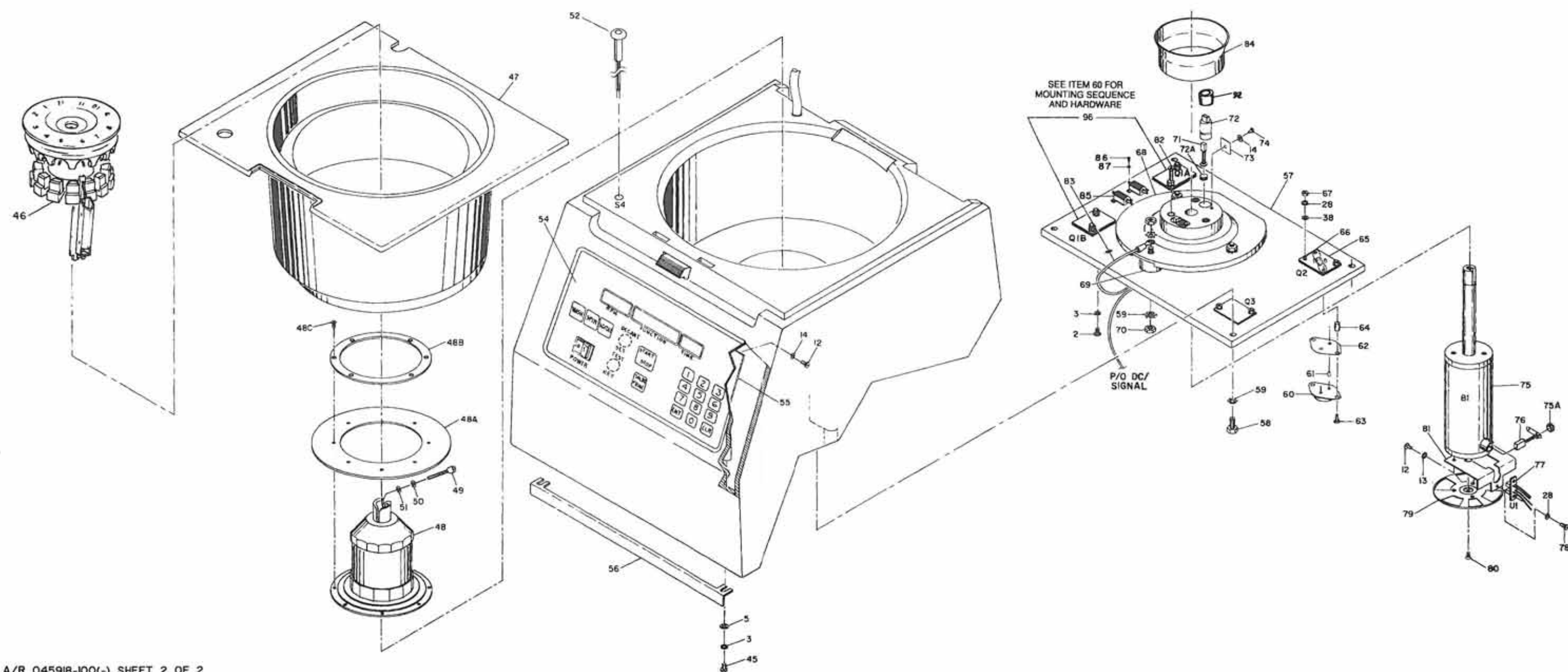
Items Not Illustrated

24 Drive transistor harness assembly 1



A/W 045918-100(-) SHEET 1 OF 2

Figure 4-2. (Sheet 1) Dade® Automatic Centrifuge II Housing - Exploded View



A/R 045918-100(-) SHEET 2 OF 2

Figure 4-2. (Sheet 2) Dade® Automatic Centrifuge II
Housing - Exploded View