

MARCOTILT CHAIR
PARTS MANUAL

!! WHEN ORDERING PARTS
PLEASE SUPPLY THE FIGURE
& INDEX NUMBERS!!

11/92

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FIGURE 1 CHAIR ASSEMBLY

INDEX NO	DESCRIPTION	Q'TY
1	Hole plug DP-875	3
2	Pedestal	2
3	Screw M4-10(cross recessed head)	2
4	Handle, L	1
5	Switch	1
6	Handle, R	1
7	Plain washer	4
8	Hexagon headed bolt M6-15	4
9	Hexagon nut M3	2
10	Cover plate	1
11	Hexagon nut M6	1
12	Plain washer	1
13	Plain washer	1
14	Balance weight	1
15	Bolt M6-15 (hexagon socket head)	4
16	Spring washer	4
17	Plain washer	1
18	Hexagon headed bolt M6-35	1
19	Foot plate assembly	1
20	Bolt M6-18(hexagon socket head)	4
21	Shaft, step	2
22	Step	1
23	Setscrew M6-12(hexagon socket head, cup point)	2
24	Side plate, R	1
25	Step rubber	1
26	Truss screw M3-6(cross recessed head)	3
27	Corner	1
28	Side plate, L	1
29	Screw M4-10(cross recessed head)	3
30	Setscrew M6-10(hexagon socket head, cup point)	2
31	Brake block	2
32	Body assembly	1

FIGURE 1 CHAIR ASSEMBLY

INDEX NO	DESCRIPTION	Q'TY
33	Armrest cover	2
34	Armrest	2
35	Pan head screw M4-8(cross recessed head)	4
36	Spring washer	4
37	Shaft	2
38	Washer	4
39	Leaf spring	2
40	Steel ball, 8mm dia.	4
41	Setscrew M8-15(hexagon socket head, cup point)	2
42	Setscrew M8-15(hexagon socket head, cone point)	2
43	Bolt M5-10(hexagon socket head)	6
44	Tapping screw M3-8(cross recessed head)	8
45	Armrest assembly, L	1
	Armrest assembly, R	1
46	Ring nut	2
47	Cap	2
48	Screw M4-8(cross recessed head)	2
49	Bolt M8-15(hexagon socket head)	6
50	Hexagon headed bolt M6-15	2
51	Spring washer	2
52	Arm	2
53	Pin	2
54	Damper tube	4
55	Guide rail	2
56	Sleeve, L	1
	Sleeve, R	1
57	Stopper assembly	2
58	Spring washer	4
59	Hexagon headed bolt M8-15	4
60	Calf pad	1
	Calf pad (fancy type)	1
61	Wing bolt M6-30	1

FIGURE 1 CHAIR ASSEMBLY

INDEX NO	PART NO	DESCRIPTION	Q'TY
62	U01281	Seat cushion	1
	U15003	Seat cushion (fancy type)	1
63	U01282	Backrest cushion	1
	U15004	Backrest cushion (fancy type)	1
64	U01283	Hook, Cushion	2
65		Wood screw 2.7mm-15(cross recessed head)	4
66	U01276	Switch panel	1
67		Screw M3-20(cross recessed head)	2
68	U01034	Spacer	2
69		Switch 8R1021	4
70	U01277	Switch plate	1
71	U01278	Spacer	2
72		Plain washer	1
73		Fastener KGLS-6NS	3
74		PC board	1

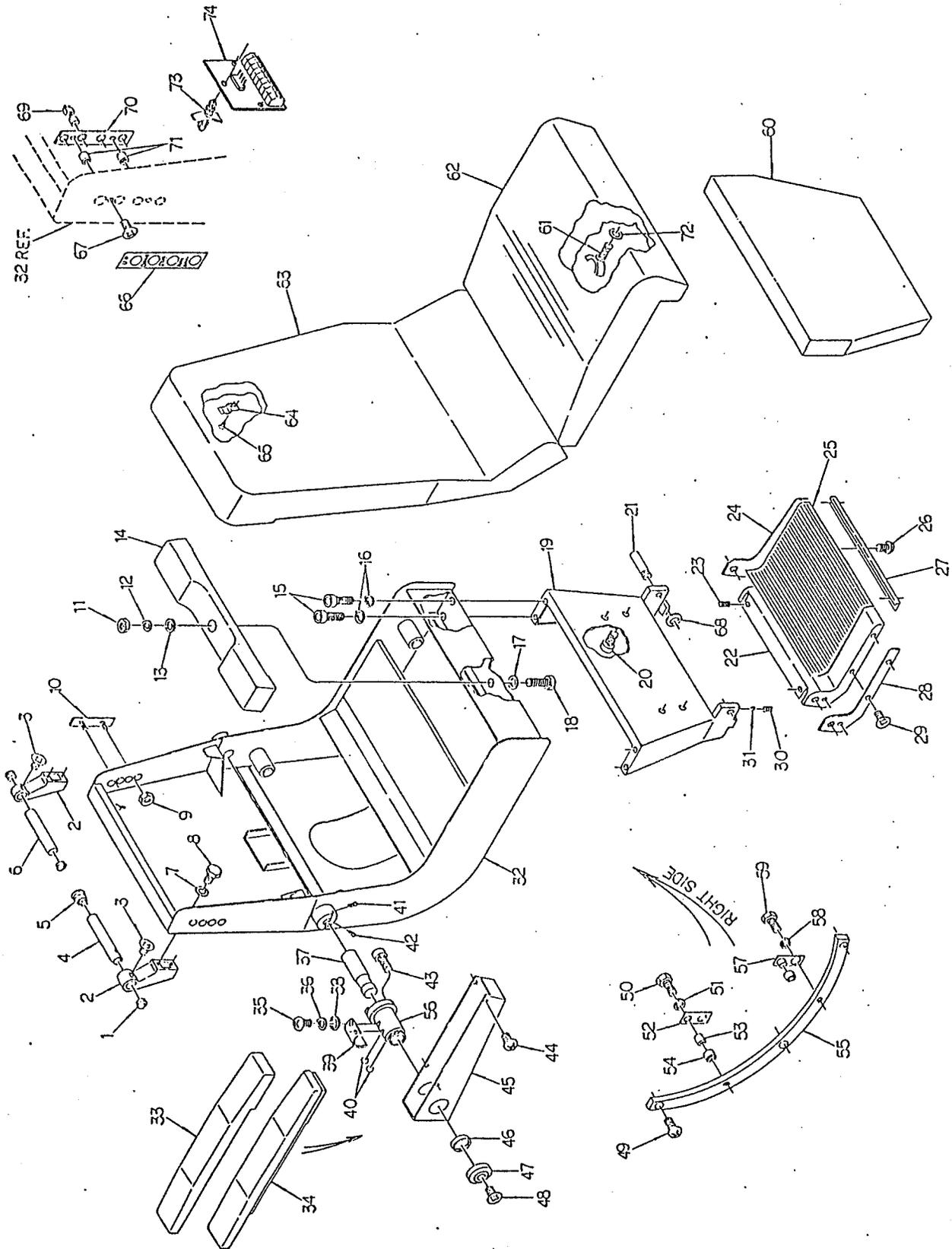


FIGURE 1 CHAIR ASSEMBLY

FIGURE 2A TILT LOCK ASSEMBLY
S/N 1497 & UP

INDEX NO	PART NO	DESCRIPTION	Q'TY
1		Screw M5-15(cross recessed head)	2
2		Spring washer	4
3		Bolt M6-15(hexagon socket head)	4
4	U01271	Pivot Pin	2
5	U01270	Bracket	2
6	U01275	Shaft, tilt	1
7	U01296	Cleat holder	1
8	U01297	Spacer	2
9	U01264	Cleat	20
10	S04119	Spring	1
11	U01342	Bar	1
12		Spring washer	2
13		Screw M4-10(cross recessed head)	2
14	U01299	Release	2
15	U01298	Actuator	1
16		Plain washer	4
17		Truss screw M4-6(cross recessed head)	4
18		Coned Disc Spring	1
19	U01343	Adjuster	1
20		Motor S43G-60-60 115V 10W	1
21	U01300	Plate, motor	1
22		Hexagon nut M4	4
23		Spring washer	2
24		Screw M4-10(cross recessed head)	2
25		Setscrew M4-6(hexagon socket head, cup point)	1
26	U01302	Roller, eccentric	1
27	U01301	SW plate	2
28		Microswitch SS-5GL	2
29		Truss screw M2-8(cross recessed head)	4
30		Spring washer	2
31		Screw M4-6(cross recessed head)	2
32		Setscrew M5-6(hexagon socket head,	1

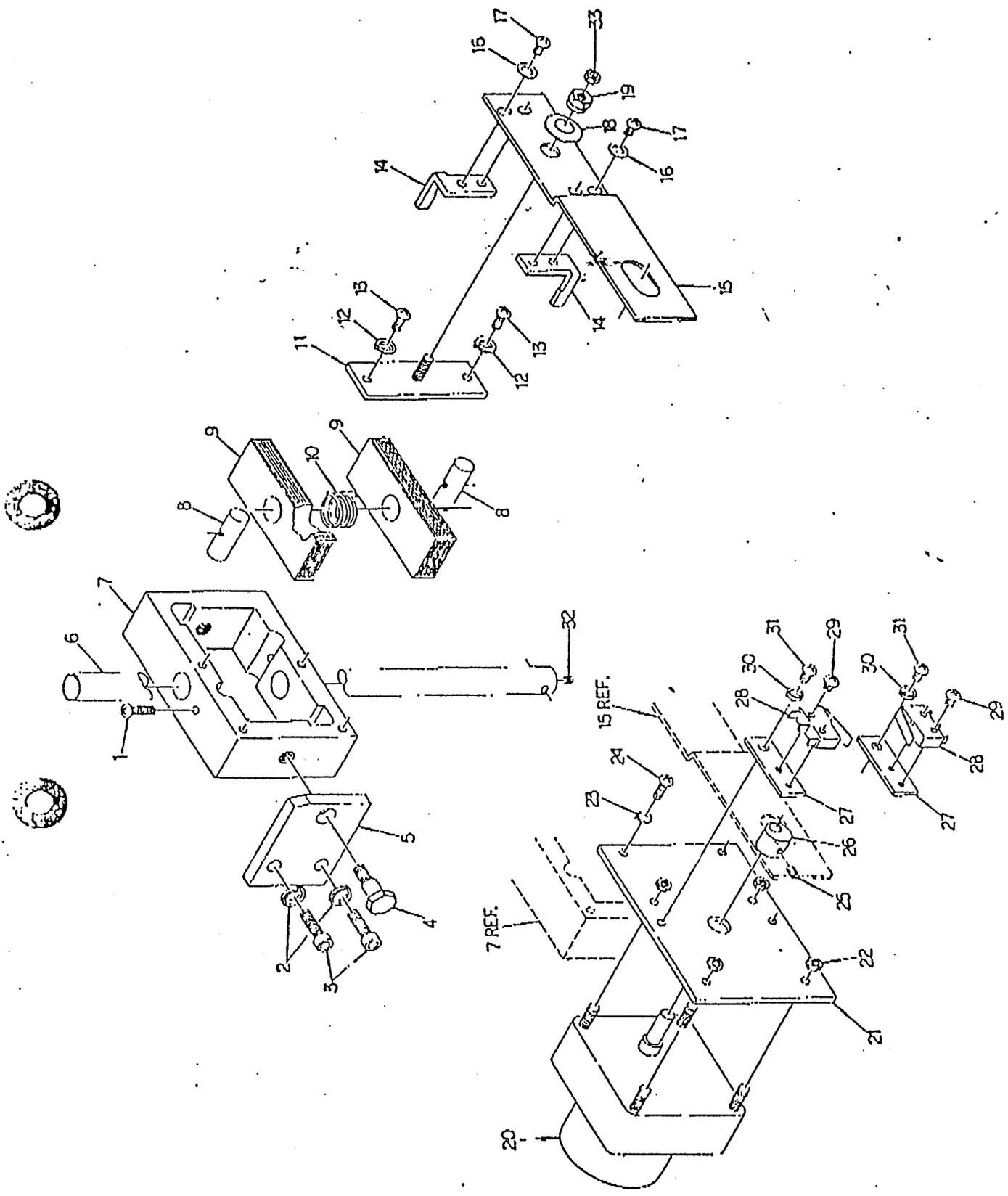


FIGURE 2A TILT LOCK ASSEMBLY S/N 1497 & UP

FIGURE 2 TILT LOCK ASSEMBLY

INDEX. NO	DESCRIPTION	Q'TY
1	Screw M5-15(cross recessed head)	2
2	Spring washer	4
3	Bolt M6-15(hexagon socket head)	4
4	Pivot Pin	2
5	Bracket	2
6	Shaft, tilt	1
7	Cleat holder	1
8	Spacer	2
9	Cleat	20
10	Spring	1
11	Girder	1
12	Spring washer	2
13	Screw M4-10(cross recessed head)	2
14	Release	2
15	Actuator	1
16	Plain washer	4
17	Truss screw M4-6(cross recessed head)	4
18	Truss screw M4-6(cross recessed head)	1
19	Washer	1
20	Motor S43G-60-60 115V 10W	1
21	Plate, motor	1
22	Hexagon nut M4	4
23	Spring washer	2
24	Screw M4-10(cross recessed head)	2
25	Setscrew M4-6(hexagon socket head, cup point)	1
26	Roller, eccentric	1
27	SW plate	2
28	Microswitch SS-5GL	2
29	Truss screw M2-8(cross recessed head)	4
30	Spring washer	2
31	Screw M4-6(cross recessed head)	2
32	Setscrew M5-6(hexagon socket head, cup point)	1

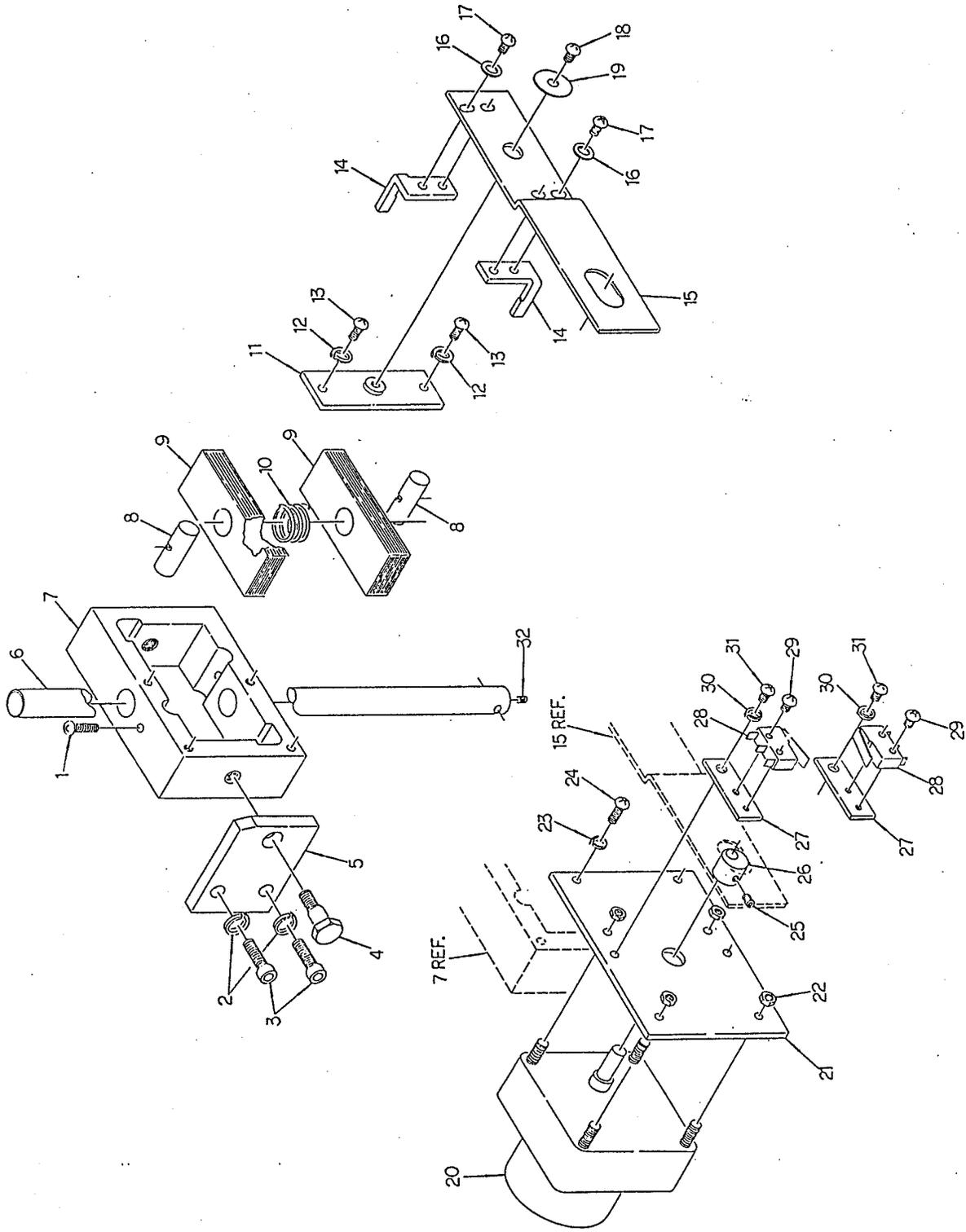


FIGURE 2 . TILT LOCK ASSEMBLY

FIGURE 3A CHAIR BASE ASSEMBLY

300 MM STROKE LENGTH SERIAL# 1432 AND UP

INDEX NO	PART NO	DESCRIPTION	Q'TY
1	U02260	Cosmetic Rubber	2
2	U02259	Brake Lever	1
3		Set Screw M6-15 (hexagon socket head)	1
4		Bolt M6-20 (hexagon socket head)	1
5	(U02354)	Pin, Brake	1
6	U02261	Pin, Lever	1
7		Set Screw M6-6 (hexagon socket head)	2
8	U02240	Sleeve, Eccentric	1
9		Pin, Spring	2
10		Set Screw M6-8 (hexagon socket head)	2
11	U14006	Brake block	2
12	U02243	Pin	1
13		Hexagon nut M8	6
14		Spring Washer	6
15	U02245	Follower	2
16		Bearing Bush	2
17	(U02355)	Shaft, Eccentric	2
18		Cam Follower	4
19	(U02356)	Washer	4
20		deletion	
21	(U02353)	Support	1
22	(U02352)	Cover Cap, Strut	1
23		Steel Ball	70
24		Bolt M5-5 (hexagon socket head)	1
25	(U02350)	Outer Tube	1
26		Bolt M5-8 (hexagon socket head)	4
27		"O" Ring	1
28	(U02349)	Key	1
29	(U02346)	Rubber stopper	3
30	(U02348)	Stopper Pin	1
31	(U02347)	Intermediate Tube	1
32	U02320	Key	1
33	(U02351)	Tube cover assembly	1
34		Truss screw M3-6 (cross recessed head)	3

FIGURE 3A CHAIR BASE ASSEMBLY

300MM STROKE LENGTH SERIAL # 1432 AND UP

INDEX NO	PART NO	DESCRIPTION	Q'TY
35	U02336	Suction Tube	1
36	U02158	Hose Joint L	1
37		Pump Motor	1
38		Condenser	1
39	U02161	Clamp, Condenser	1
40		Screw M4-15 (cross recessed head)	1
41		Hexagon Nut M5	4
42		Spring Washer	4
43	U02266	Spacer	3
44		Vibration Absorbing Rubber	4
45		Hexagon Nut M5	4
46		Spring Washer	4
47		Spring Washer	3
48		Hexagon Head Bolt M8	3
49	U02157	Hose Joint S	1
50	(U02333)	Plate, Motor	1
51	U02335	Oilproof Hose	1
52		Support	4
53		Printed Board	1
54		Screw M5-10 (cross recessed head)	2
55	U02247	Terminal Board assembly	1
56	(U02344)	Inner Tube	1
57	(U02345)	Bis, Stopper	2
58		Hexagon Nut M5	2
59		Spring Washer	2
60		Connector 3V-187	1
61		Microswitch V-16-2AR5	1
62	U02126	Switch Fitting Plate Assembly	1
63	(U02334)	Stand, Switch	1
64		Screw M3-18 (cross recessed head)	2
65		Bolt M8-25 (hexagon socket head)	3
66		Spring Washer	3
67		"O" Ring	4
68		Tube, Joint	2

FIGURE 3A CHAIR BASE ASSEMBLY

300MM STROKE LENGTH SERIAL # 1432 AND UP

INDEX NO	PART NO	DESCRIPTION	Q'TY
69		Solenoid Bulb B-S216-614A	1
70		Clip, Hose	2
71	U02158	Hose Joint, L	1
72		Nozzle 45°	1
73	(U02330)	Cap, Cover	1
74	(U02329)	Pump Cover B	1
75	(U02328)	Pump Cover F	1
76		Cord Bush 5B	1
77		Screw M4-8 (cross recessed head)	6
78		Clip, Hose	2
79		Plug	1
80	U02250	Universal Bush	1
81		Tube assembly, Lift	1
82	U02263	L Metal Fitting,T	2
83		Screw M5-8 (cross recessed head)	4
84	U02262	L Metal Fitting,S	2
85	U02229	Cover, Base	1
86	(U02327)	Base	1
87		Screw M4-10 (cross recessed head)	4
88	U02212,U02213	Foot Switch	2
89	U02138	Plate , Foot Pedal	1
90		Screw M8-10 (cross recessed head)	4
91		Sticker "NO STEP"	1
92		Sticker "DOWN"	1
93		Sticker "UP"	1
94		Sticker "VOLT"	1
95		Bolt M5-30 (hexagon socket head)	2
96		Spring Washer	2
97		Screw M4-6 (cross recessed head)	1
98		Screw M5-10 (cross recessed head)	1
99		Pin, Spring	1

300MM STROKE LENGTH SERIAL # 1432 AND UP

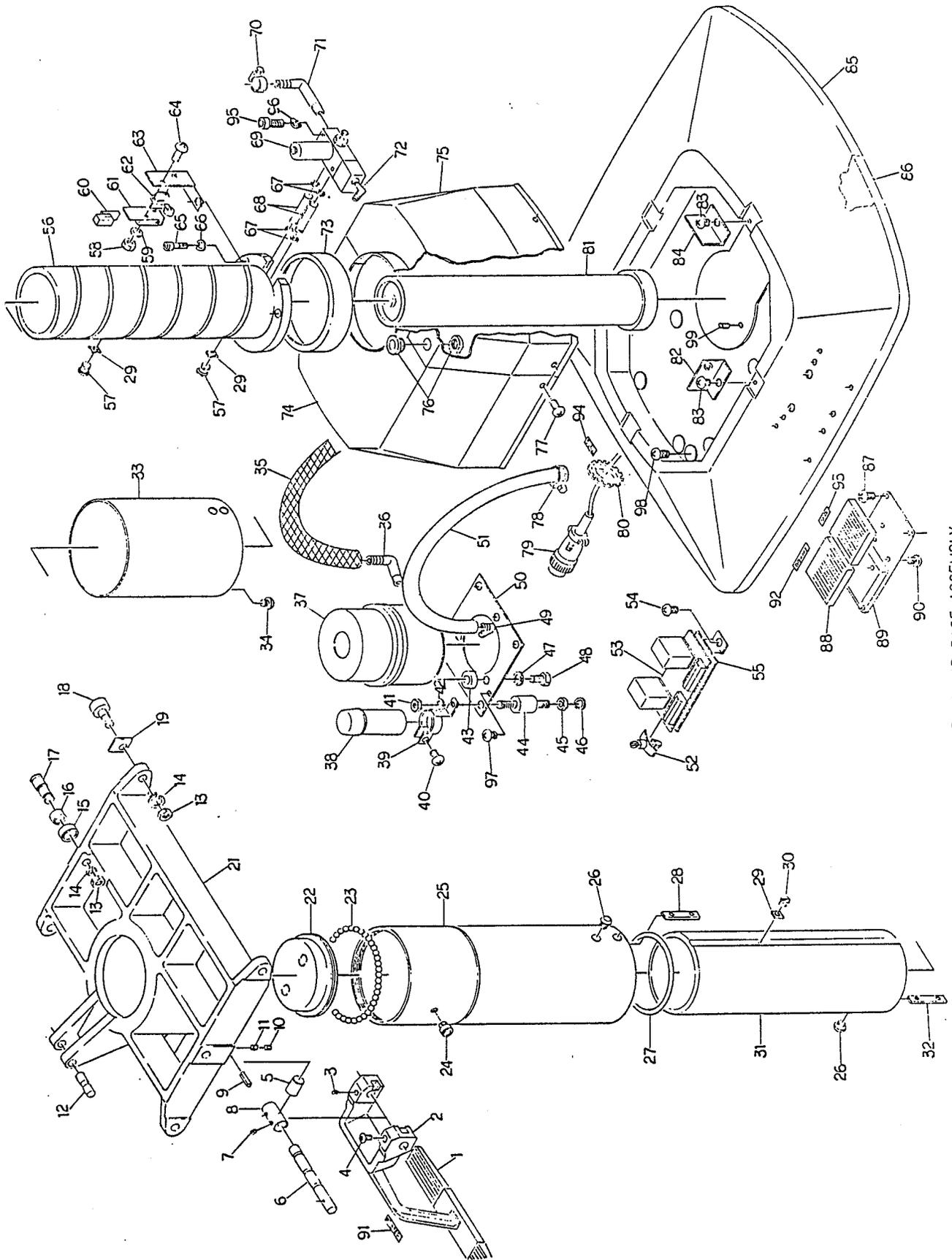


FIGURE 3A CHAIR BASE ASSEMBLY

FIGURE 3 B LIFT ASSEMBLY

300MM STROKE LENGTH SERIAL # 1432 AND UP

INDEX NO	PART NO	DESCRIPTION	Q'TY
1		"O" Ring P15	1
2	(U02339)	Cap, sleeve	1
3		"O" Ring G65	2
4	(U02343)	Piston rod	1
5	(U02342)	Piston	1
6		"O" Ring P24	2
7	(U02341)	Sleeve	1
8	(U02340)	Main cylinder	1
9		"O" Ring G35	1
10	(U02338)	Cylinder tube	1
11	(U02337)	Base, sleeve	1
12	(U02010)	Cushion Rubber	1

300MM STROKE LENGTH SERIAL # 1432 AND UP

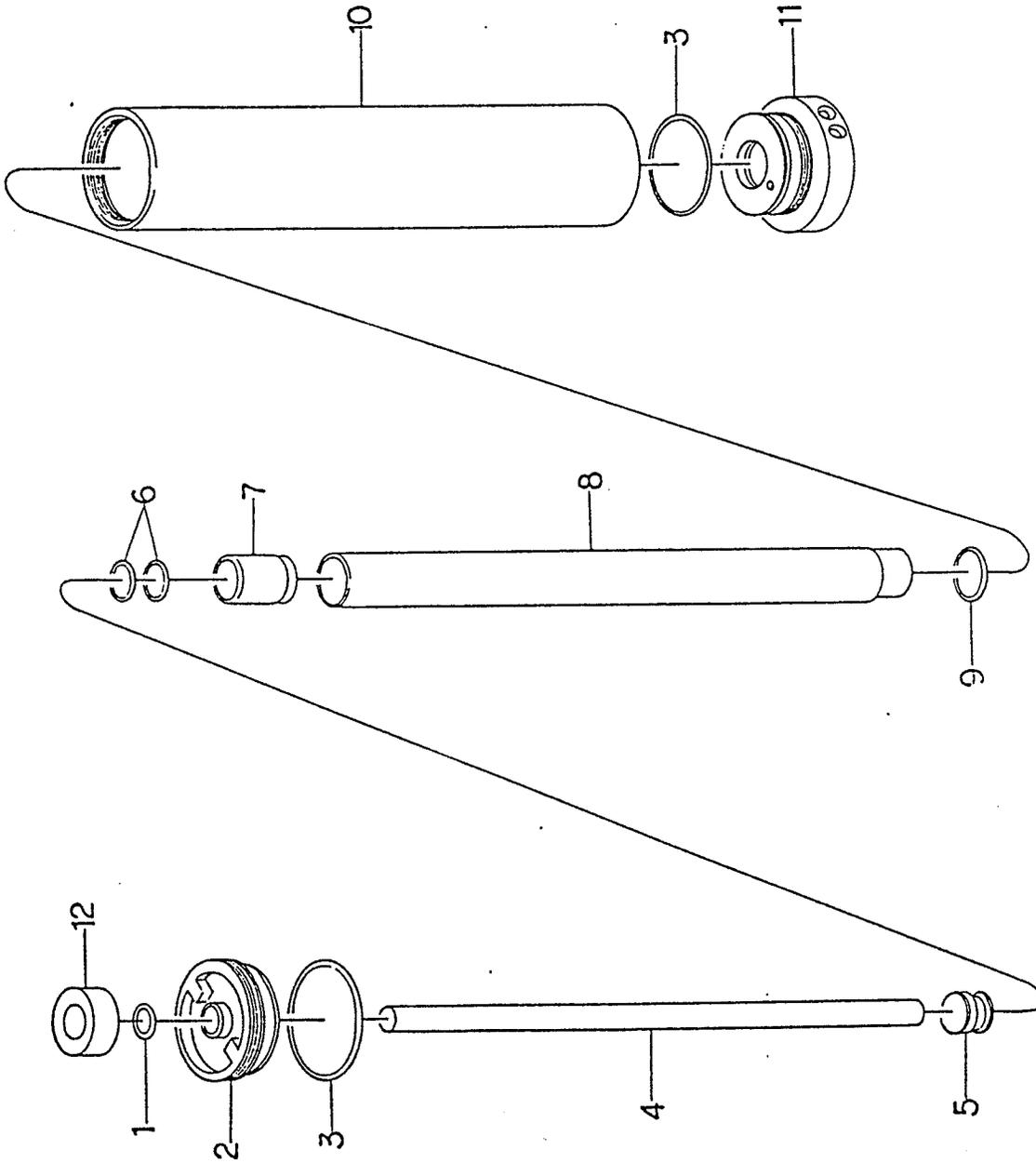


FIGURE 3B LIFT ASSEMBLY

FIGURE 3 LIFTING TUBE & BASE ASSY.

INDEX NO	DESCRIPTION	Q'TY
1	Steel ball 6mm dia.	54
2	Bolt M5-5(hexagon socket head)	1
3	Outer sleeve	1
4	Bolt M5-10(hexagon socket head)	1
5	Rubber pad	1
6	O ring P20	1
7	Cap, sleeve	1
8	O ring G75	2
9	Key	1
10	Piston rod	1
11	Piston	1
12	O ring P24	2
13	Sleeve	1
14	Main cylinder	1
15	O ring P36	1
16	Tube, tank	1
17	Screw M6-10(cross recessed head)	2
18	Terminal Board assembly	1
19	Inner sleeve	1
	Base, sleeve	1
20	Pump motor TSM-CBI-10L	1
21	Condenser	1
22	Hexagon nut M6	4
23	Screw M4-15(cross recessed head)	1
24	Clamp, condenser	1
25	Spring washer	4
26	Spacer	3
27	Vibration absorbing rubber MEH-20	4
28	Hexagon nut M6	4
29	Suction tube	1
30	Bolt M8-35(hexagon socket head)	4
31	Spring washer	4
32	Hexagon nut M3	2
33	Plate, motor	1
34	Switch stand	1

FIGURE 3 LIFTING TUBE & BASE ASSY

INDEX NO	DESCRIPTION	Q'TY
35	Switch V-15-1A	1
36	Spring washer	3
37	Hexagon headed bolt M8-20	3
38	Screw M3-18(cross recessed head)	2
39	Insulator	1
40	Switch holder	1
41	Cover cap	1
42	Pump cover B	1
43	Connector NJC-207PMX	1
44	Corner	2
45	Truss screw M4-8(cross recessed head)	6
46	Tapping screw M5-8(cross recessed head)	4
47	L metal plate, T	2
48	Base	1
49	Base cover	1
50	L metal plate, S	2
51	Screw M8-10(cross recessed head)	4
52	Plate, foot pedal	1
53	Truss screw M4-10(cross recessed head)	4
54	Foot pedal, R	1
55	Pump cover, F	1
56	Bolt M6-50(hexagon socket head)	2
57	Spring washer	2
58	O ring P8	2
59	Oil control unit	1
60	Hose joint, S	4
61	Clip, hose	2
62	Oilproof hose	1
63	Foot pedal, L	1
64	Spring washer	2
65	Spring washer	4
66	Clip, hose	2

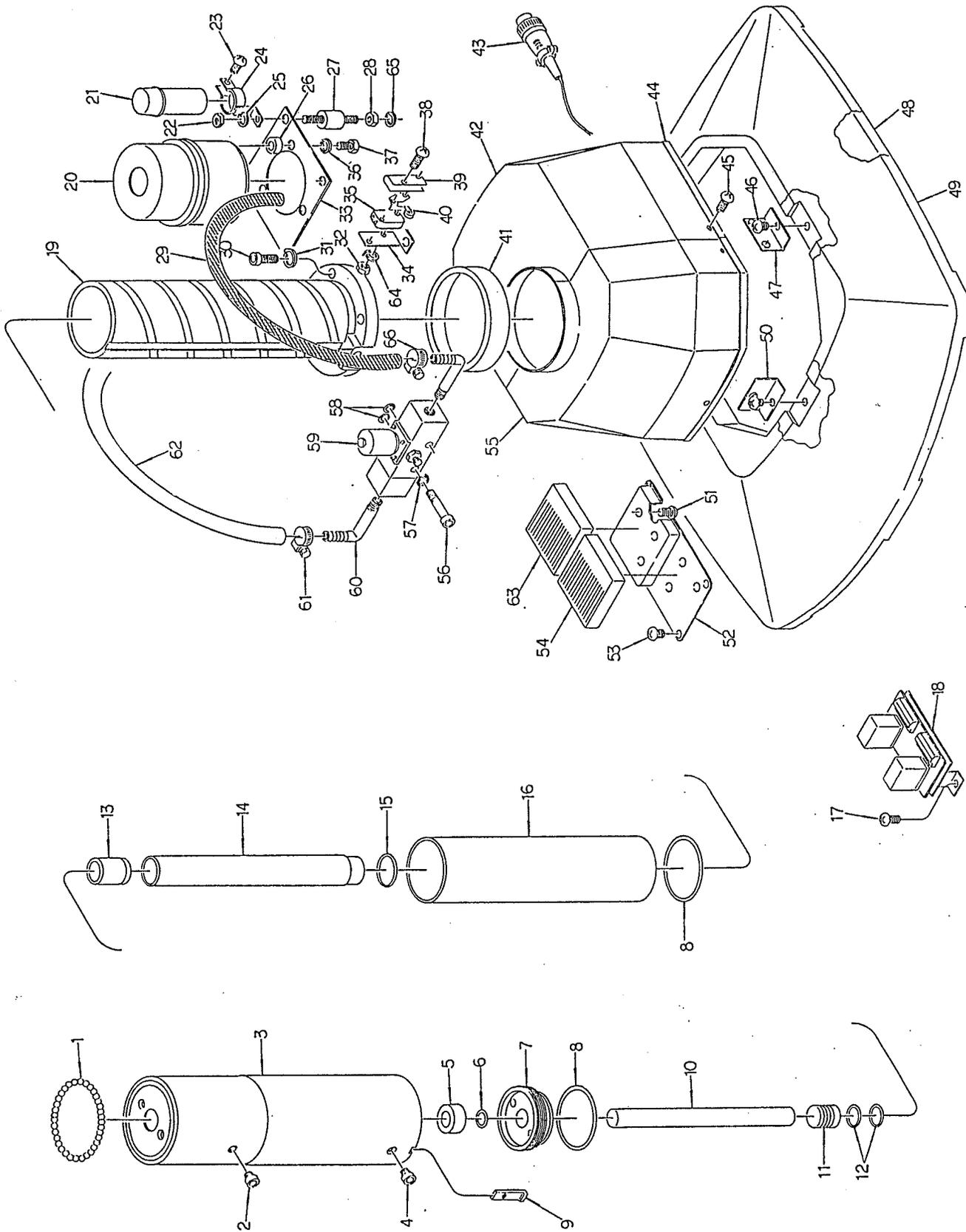


FIGURE 3 LIFTING TUBE & BASE ASSY

FIGURE 4 SWIVEL LOCK & SUPPORT ASSY.

INDEX NO	DESCRIPTION	Q'TY
1	Support	1
2	Hexagon nut M10x1.25	2
3	Spring washer	6
4	Follower (with bearing bush)	2
5	Shaft, eccentric	2
6	Cam follower, CF10	4
7	Washer	4
8	Washer	4
9	Hexagon nut	4
10	Pin	1
11	Rotation sleeve	1
12	Spring washer	4
13	Hexagon headed bolt M8-25	4
14	Spring pin 6mm dia.-25	2
15	Lever pin	1
16	Brake block	2
17	Setscrew M6-8(hexagon socket head, cup point)	2
18	Brake pin	1
19	Sleeve, eccentric	1
20	Setscrew M6-6(hexagon socket head, cup point)	2
21	Bolt M6-20(hexagon socket head)	1
22	Setscrew M6-15(hexagon socket head, cup point)	1
23	Locking lever	1
24	Cosmetic rubber	2

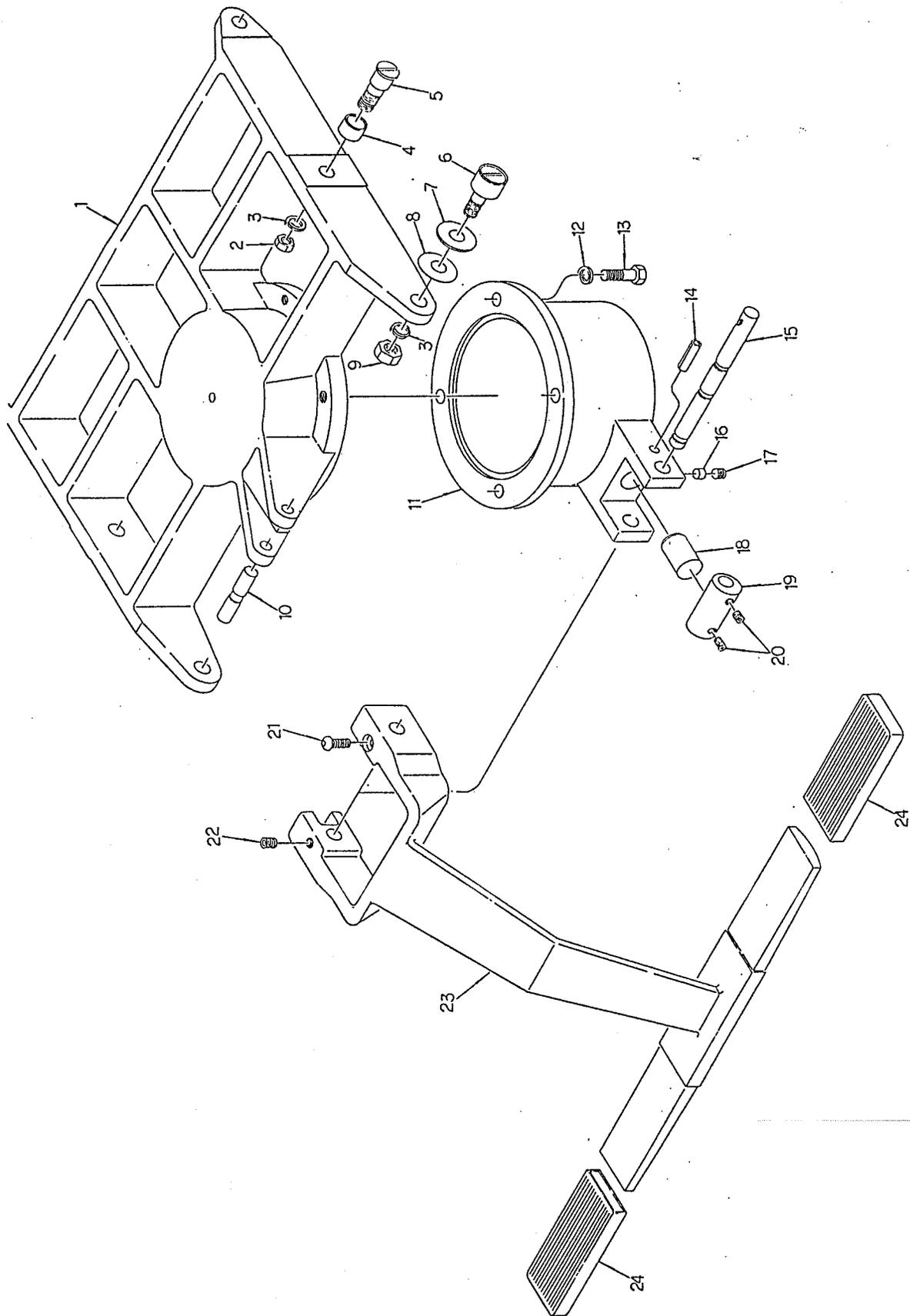


FIGURE 4 SWIVEL LOCK & SUPPORT ASSY

FIGURE 5 FOOTREST ASSEMBLY

INDEX NO	DESCRIPTION	Q'TY
1	Wood screw 2.3mm-12(cross recessed head)	4
2	Cover plate	1
3	Bolt M6-15(hexagon socket head)	4
4	Washer	2
5	Bolt M8-12(hexagon socket head)	2
6	Calf pad assembly	1
7	Step	1
8	Setscrew M6-6(hexagon socket head, cup point)	2
9	Shaft, step	2
10	Screw M4-15(cross recessed head)	2
11	Step cover assembly	1
12	Step rubber	1

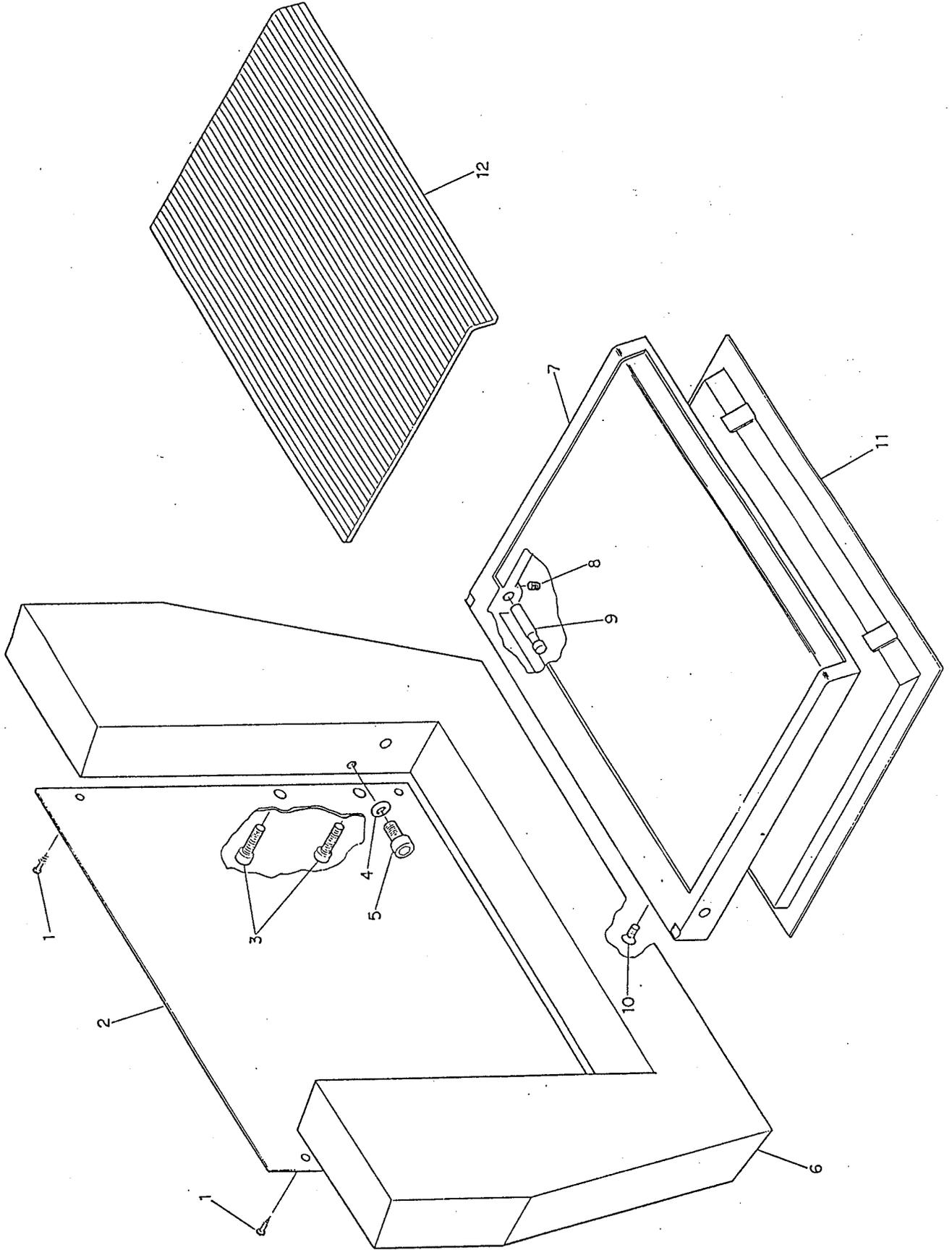


FIGURE 5 FOOTREST ASSEMBLY

FIGURE 6 HEAD REST ASSEMBLY

(MARCOTILT CHAIR)

INDEX NO	PART NO	DESCRIPTION	Q'TY
1	HSRB 6-14s	Screw	4
2	SW 6s	Spring Washer	4
3	HSRB5-20s	Screw	1
4	U11098	Bush (C)	1
5	U11094	Thrust Washer	1
6	U11095	Thrust Washer	2
7	SPA 4-16s	Pin	2
8	U11093	Rink	2
9	U11117	Bracket	1
10	U11097	Bush (B)	2
11	HSMS 5-6s	Set Screw	1
12	HSMS 5-8s	Set Screw	1
13	ø3-8	Countersunk Rivet	3
14	U11091	Arm Cover (A)	1
15	U11088	Drum Brake	1
16	U11090	Gear (A)	1
17	U11101	Gear (B)	1
18	SPA 4-12s	Pin	2
19	CQS 3-4s	Screw	3
20	U11089	Drum	1
21	U11092	Arm Cover (B)	1
22		deletion	1
23	U11096	Bush (A)	1
24	HSRB 5-25s	Screw	1
25	SPA 3-6s	Pin	4
26	CNS 5-10s	Screw	2
27	U11084	Bush	2
28	CNS 5-10s	Screw	4
29	U11086	Plate Cover (B)	1
30	U11083	Lever Pin	1
31	SPA 4-25s	Pin	1
32	SPA 4-25s	Pin	1
33	HSMS 4-10s	Set Screw	1
34	U11070	Arm	1
35	U11085	Plate Cover (A)	1

FIGURE 6 HEAD REST ASSEMBLY

INDEX NO	PART NO	DESCRIPTION	Q'TY
36	CPS 4-12S	Screw	1
37	HsMV 4-5s	Set Screw	2
38	U11003	Shaft, Headrest	1
39	U11059	Washer	2
40	CPS 4-25s	Screw	2
41	U11069	Base, Headrest	1
42	U11055	Headrest Assembly	1
	U11055	Headrest	1
	U11057	Yoke	1
	U11058	Nut Plate	2
	CNS 4-25s	Screw	2
43	PW 6s	Washer	2
44	WW 6s	Wave Washer	2
45	HsRB 6-20s	Screw	2
46	SPA 4-10s	Pin	1
47	U11072	Cam	1
48	SPA 4-8s	Pin	1
49	U11079	Insert	1
50	U11082	Spring	1
51	U11074	Matal Plate (A)	1
52	U11081	Pin	1
53	U11108	Spring	1
54	U11119	Lever	1
55	U11075	Matal Plate (B)	1
56	CQS 3-12s	Screw	2
57	SPA 3-13s	Pin	1
58	U11073	Link	1
59	U11076	Claw	1
60	SPA 4-10s	Pin	1
61	U11124	Bushing	1
62	U11111	Thrust Washer	1
63	U11112	Thrust Washer	1
64		deletion	
65	U11112	Thrust Washer	1
66	U11120	Lever Plate	1
67	CNS 3-6s	Screw	2

FIGURE 6 HEAD REST ASSEMBLY

INDEX NO	PART NO	DESCRIPTION	Q'TY
68	U11123	Guide Ring	1
69	ER 3	E ring	1
70	U11122	Indicator	1
71	U11121	Body	1
72	A-111	Spring	1

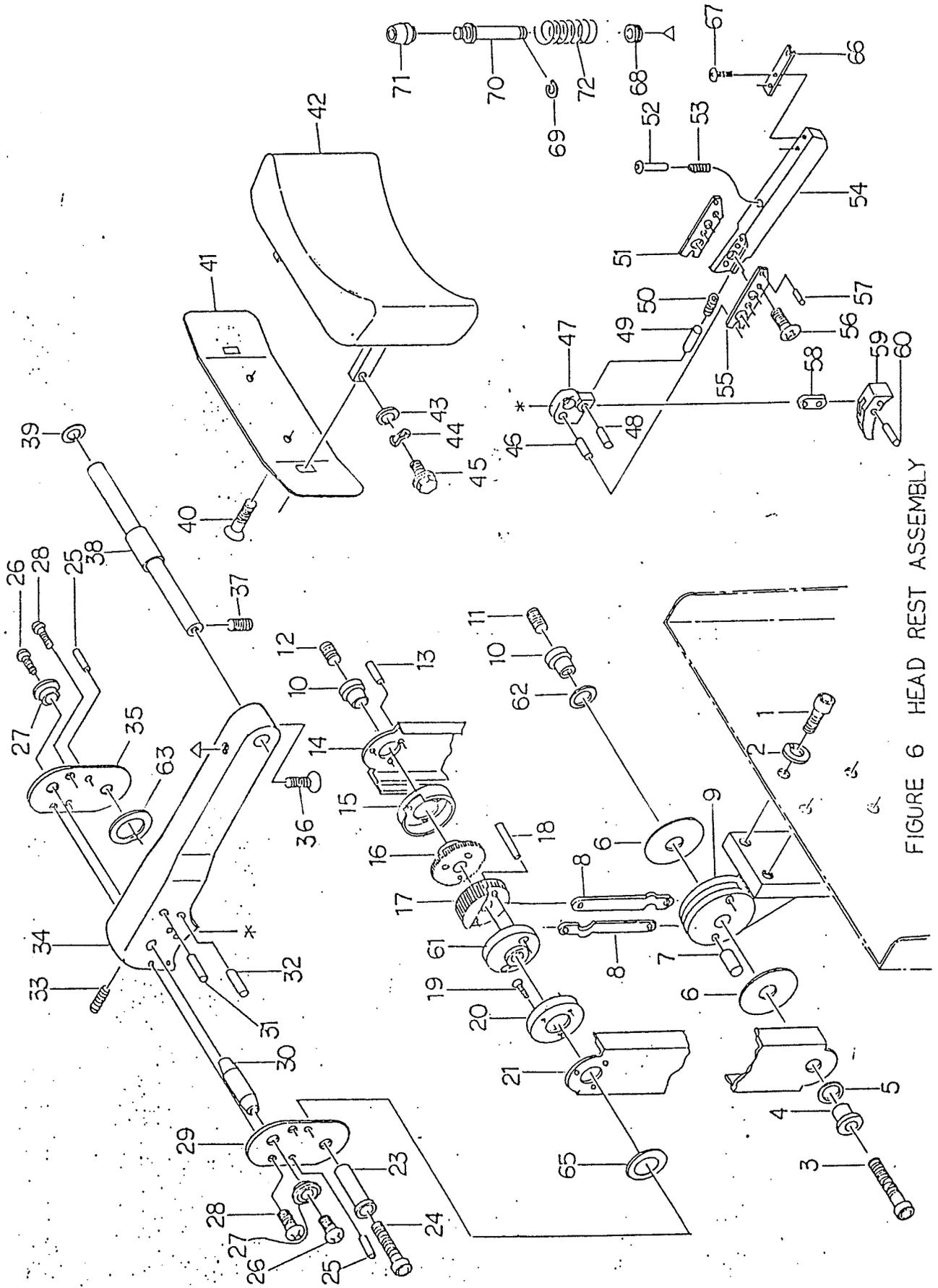
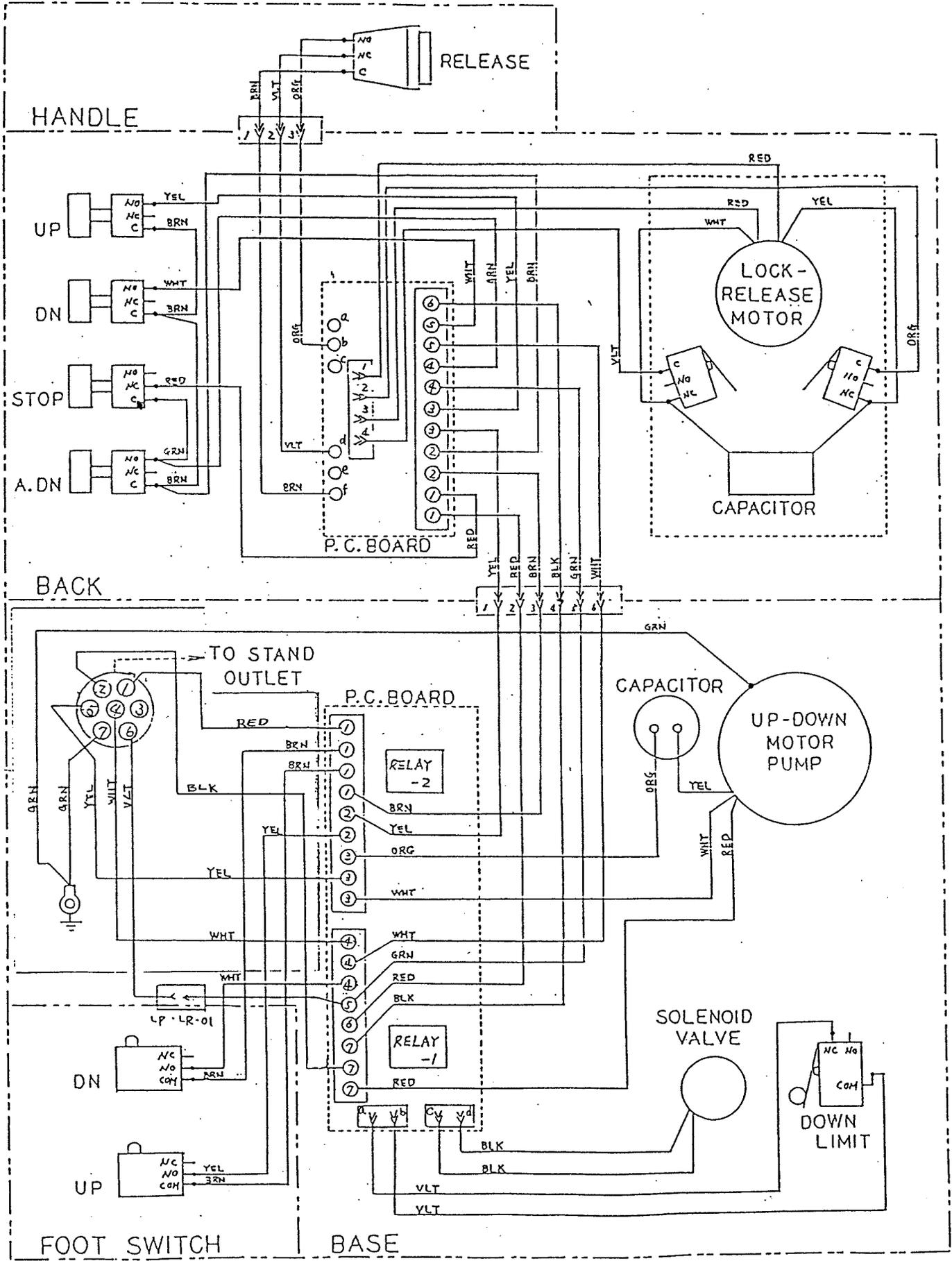
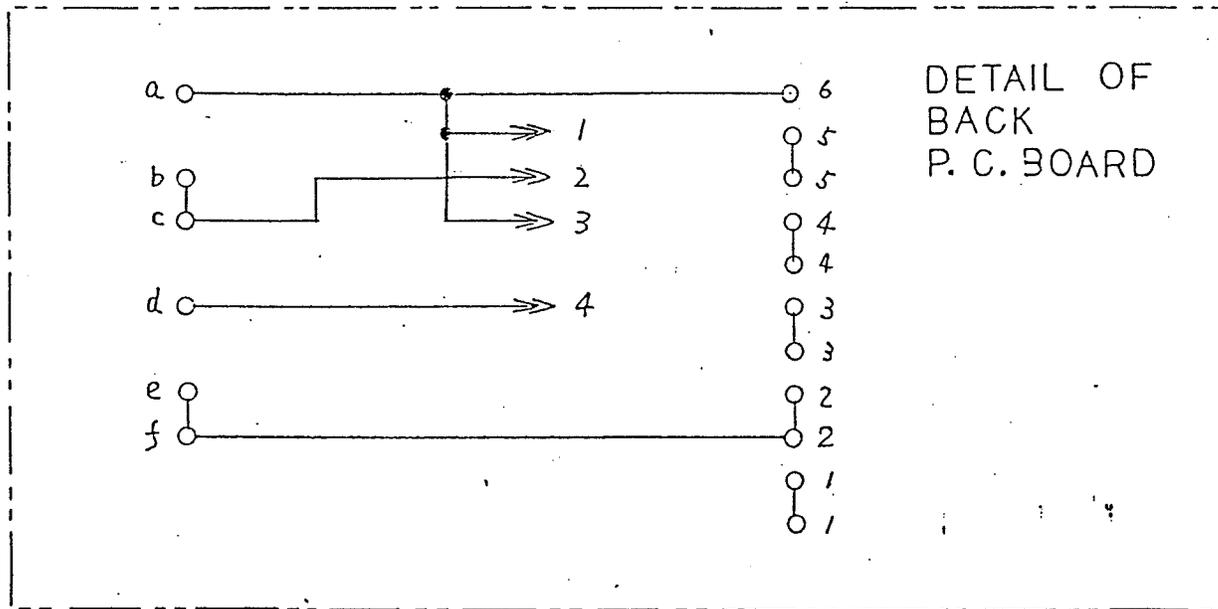
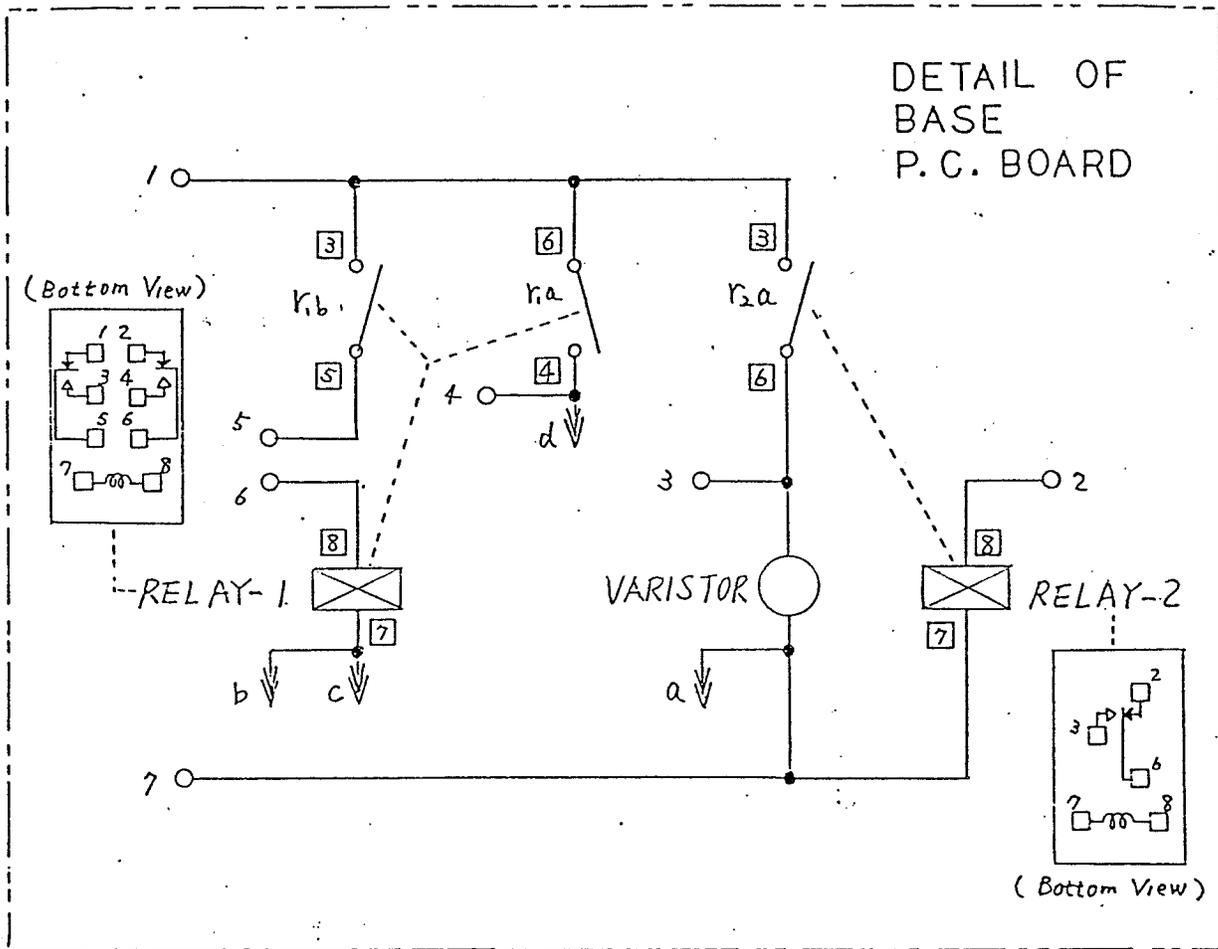


FIGURE 6 HEAD REST ASSEMBLY



WIRING DIAGRAM TILT CHAIR (w/Auto-Return Switch)



WIRING DIAGRAM TILT CHAIR