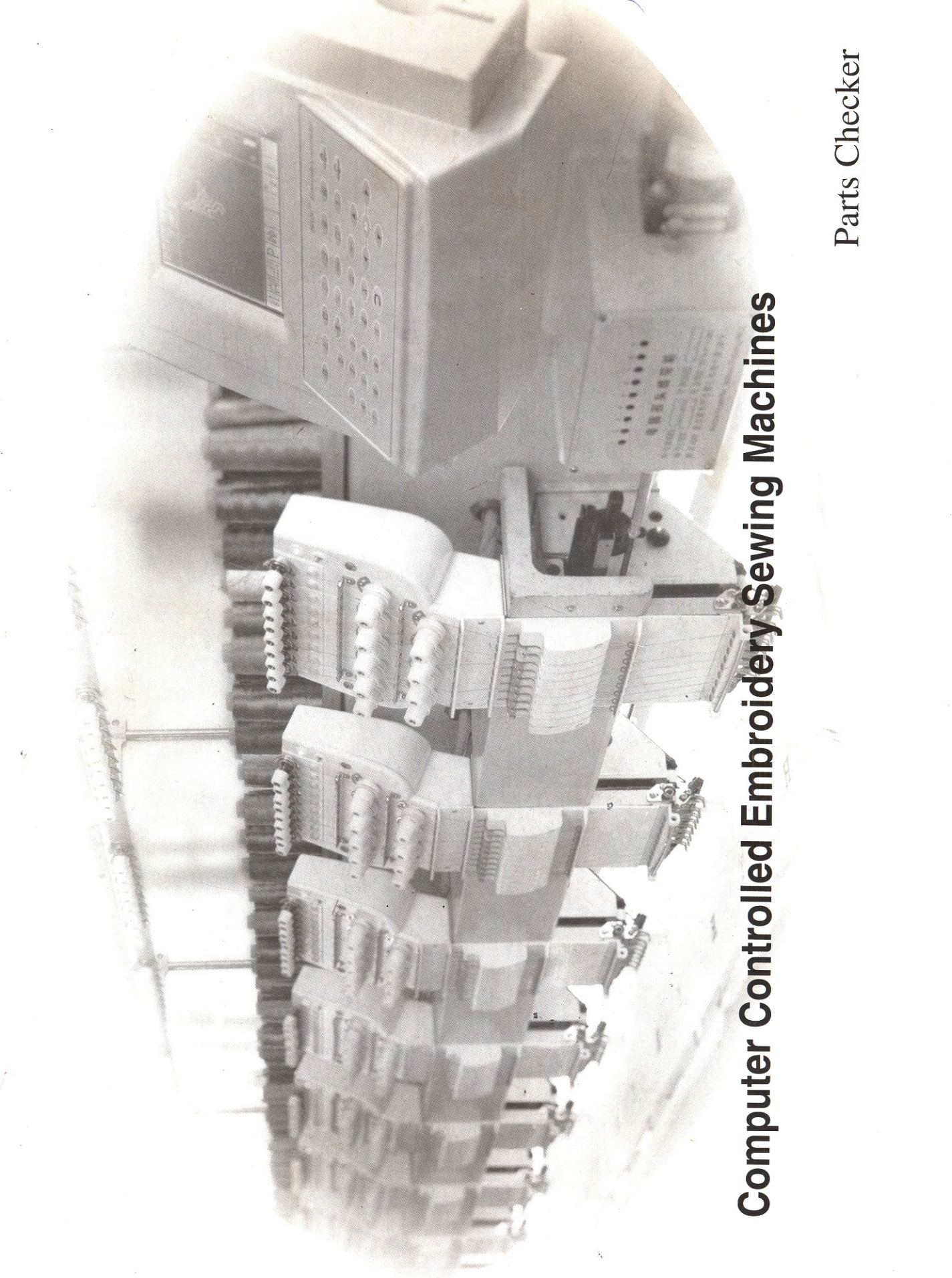
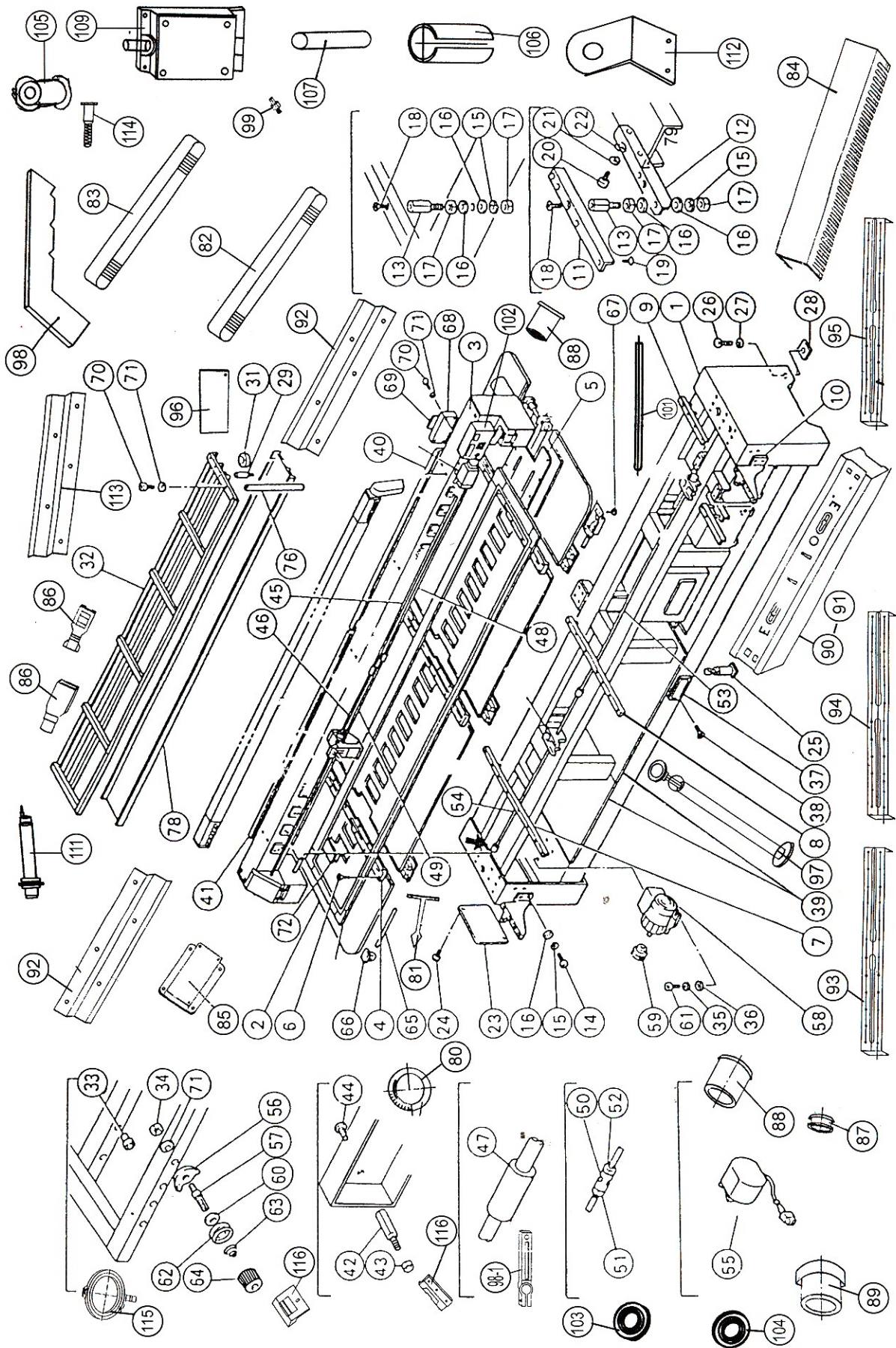


A large, light-colored industrial embroidery machine is shown from a high angle. It features a long row of embroidery heads, each with its own spool of thread. A control panel with a digital display and numerous buttons is visible on the right side. The machine is mounted on a sturdy metal frame.

Computer Controlled Embroidery Sewing Machines

Parts Checker

Stand of Multi-Head Embroidery Machine



Stand

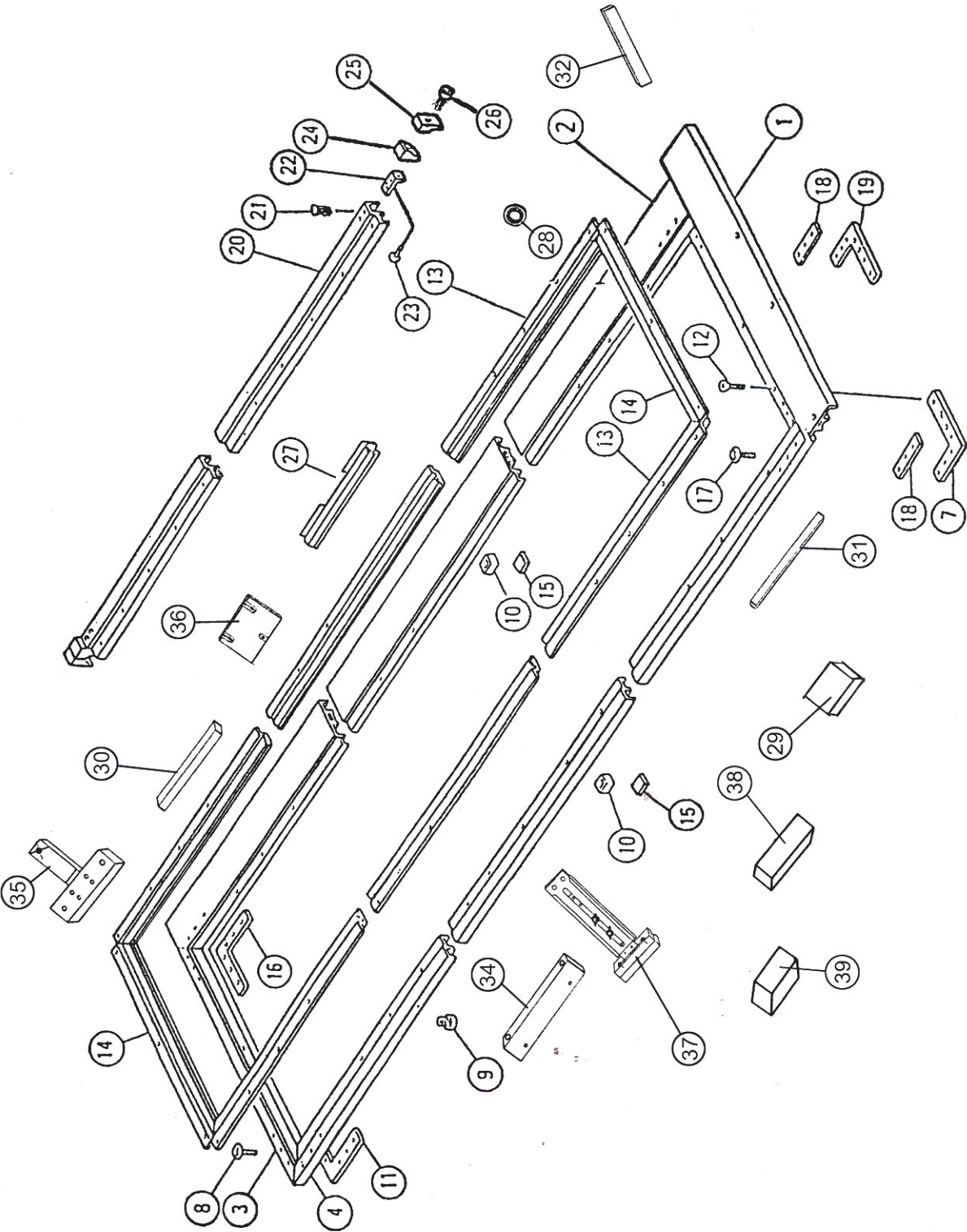
Ref.No.	Parts No.	Name	Specification	Quantity
1	1-1	stand		
2	1-2	table		
3	1-3	crossbeam		
4	1-4	cover of X-axis		
5	1-5	cover of Y-axis		
6	1-6	screw of cross-shaped groove	M3	
7	1-7	holder of Worktable 2		
8	1-8	holder of Worktable 1		
9	1-9	holder of Worktable 3		
10	1-10	holder of Worktable 7		
11	1-11	holder of Worktable 5		
12	1-12	bracket of Worktables		
13	1-13	bolt of worktable holder		
14	1-14	hexagonal screw with columned cap	M8	
15	1-15	spring washer	8	
16	1-16	washer	8	
17	1-17	nut	M8	
18	1-18	screw	M6	
19	1-19	semicircular wooden screw	M5	
21	1-20	spring washer	6	
22	1-21	washer	6	
23	1-22	side cover		
24	1-23	screw	M5	
25	1-24	supporting bolt for stand		
26	1-25	bolt	M20	
27	1-26	nut	M20	
28	1-27	gasket		

Ref.No.	Parts No.	Name	Specification	Quantity
29	1-28	thread inserting needle		
31	1-29	felt		
32	1-30	thread guide bar		
33	1-31	thread guide ring		
34	1-32	nut	M4	
35	1-33	spring washer	10	
36	1-34	washer	10	
37	1-35	model plate		
38	1-36	screw	M4	
39	1-37	baffle plate		
40	1-38	wire cover (1)		
41	1-39	wire cover (2)		
42	1-40	bolt of wire cover		
43	1-41	nut	M5	
44	1-42	screw	M4	
45	1-43	main shaft (right)		
46	1-44	main shaft (left)		
47	1-45	shaft tie-in	Diameter:15	
48	1-46	colour-change extension rod (right)		
49	1-47	colour-change extension rod (left)		
50	1-48	joint		
51	1-49	nut		
52	1-50	nut (left)		
53	1-51	lower shaft (right)		
54	1-52	lower shaft (left)		
55	1-53	coder		
56	1-54	thread guid plate		

Stand

Ref.No.	Parts No.	Name	Specification	Quantity
57	1-55	thread tension bolt		
58	1-56	main shaft motor		
59	1-57	belt wheel		
60	1-58	gasket		
61	1-59	screw	M10	
62	1-60	thread tension ring		
63	1-61	thread tension spring		
64	1-62	adjusting nut		
65	1-63	switch extension bar		
66	1-64	switch extension bar holder		
67	1-65	wooden screw	M5	
68	1-66	jumping control-rank		
69	1-67	machine-head electromagnet driving-board		
70	1-68	screw	M5	
71	1-69	washer	5	
72	1-70	cover board		
76	1-71	thread-rack pillar		
78	1-72	thread-rack board		
79	1-73	hexagonal screw with columned cap	M6	
80	1-74	dial		
81	1-75	pointer		
82	1-76	synchronous belt 600-30.8m		
83	1-77	synchronous belt 600-40.8m		
84	1-84	thread groove 2M		
85	1-89	journey switch		
86	1-91	limit switch		
87	1-94	hole stopple Φ30		
88	1-95	hole stopple Φ40		

Ref.No.	Parts No.	Name	Specification	Quantity
89	1-96	hole stopple Φ22		
90	1-97	fluorescent lamp fixture 30W		
91	1-98	fluorescent lamp fixture 36W		
92	1-99	lampshade 925		
93	Y01-05A	connecting plank of X-axis		
94	Y01-05B	connecting plank of X-axis		
95	Y01-05D	connecting plank of X-axis		
96	Y01-05F	mirror 90 × 185		
97	Y01-10	plate-supporting column		
98	Y01-11A	thread-stand holder A		
98-1	Y01-11B	spool support B		
100	Y01-31	thread-traction bushing		
101	Y01-62	stainless-steel pulling-bar (6m)		
102	Y01-67	computer		
103	Y01-78	6201 bearing		
104	Y01-79	6005 bearing		
105	Y01-80	tension wheel (two sizes available)		
106	Y01-81	uncork bearing		
107	Y01-82	main-driving shaft		
108	Y01-83	osculum		
109	Y01-88	stroke switch		
110	Y01-88A	start switch		
111	Y01-90	shift switch		
112	Y01-93	shift switch holder		
113	Y01-100	lampshade 1225		
114	Y01-101	frame supporting shaft		
115	Y01-103	round frame		
116	Y01-Y04	magnet holder		

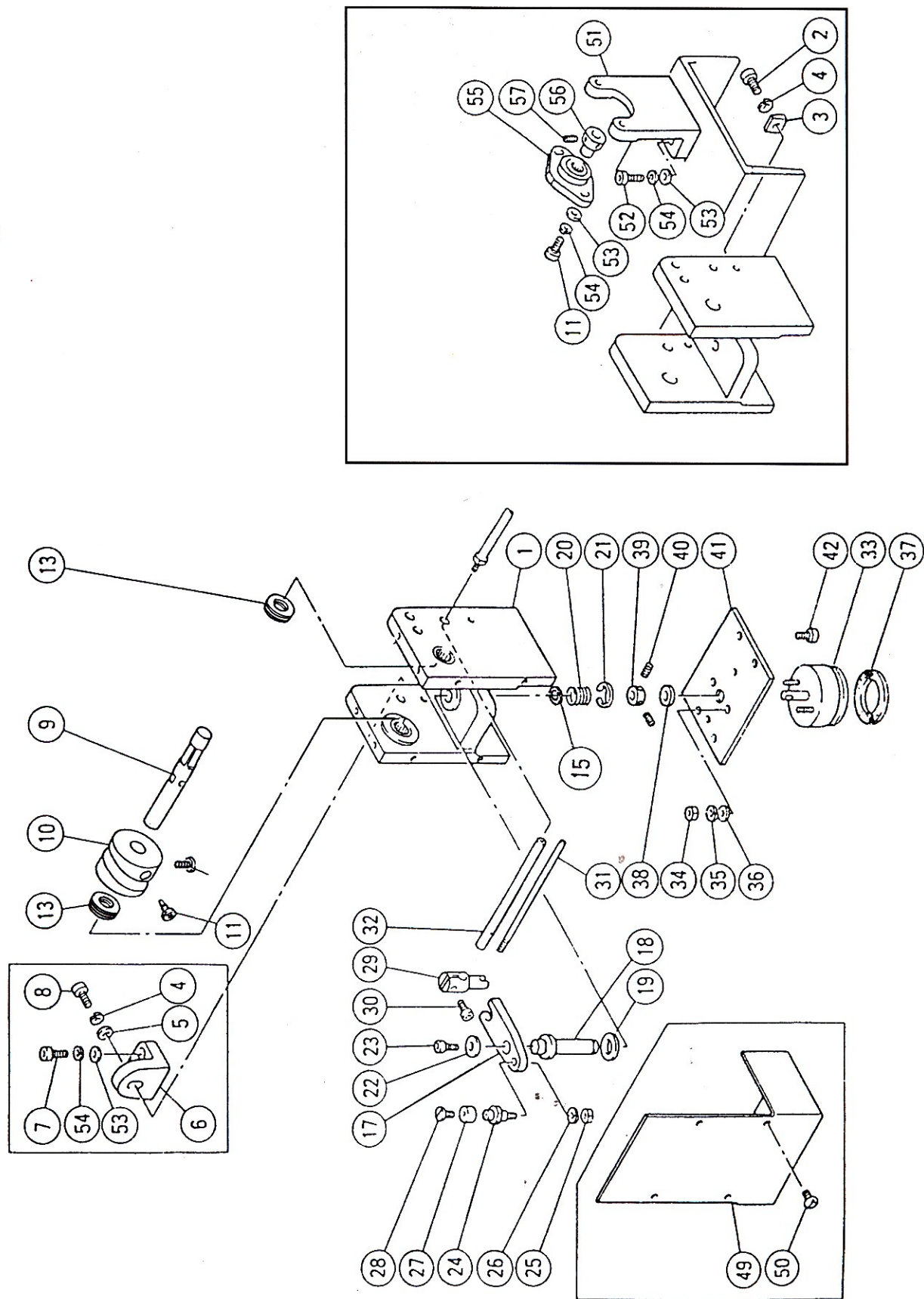


Main Embroidery Frame

Ref.No.	Parts No.	Name	Specification	Quantity
1	2-1	lognitudinal Frame A		
2	2-2	back frame		
3	2-3	lognitudinal Frame B		
4	2-4	front frame		
7	2-5	fastening Part A of right corner		
8	2-6	screw	M5	
9	2-7	screw ring		
10	2-8	plastic block		
11	2-9	fastening Part A of left corner		
12	2-10	screw	M5	
13	2-11	transverse frame bar		
14	2-12	lognitudinal frame bar		
15	2-13	felt		
16	2-14	fastening Part B of left corner		
17	2-15	screw	M5	
18	2-16	right-side gasket		
19	2-17	fastening Part B of right corner		
20	2-18	middle frame bar		
21	2-19	screw	M5	
22	2-20	inner-frame part		
23	2-21	screw	M4	
24	2-22	inner-frame part A		
25	2-23	inner-frame part B		
26	2-24	hexagonal screw with columned cap	M4	
27	2-25	frame plywood		
28	2-26	bearing 625		
29	2-27	adjusting board		

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Cam Driving Mechanism

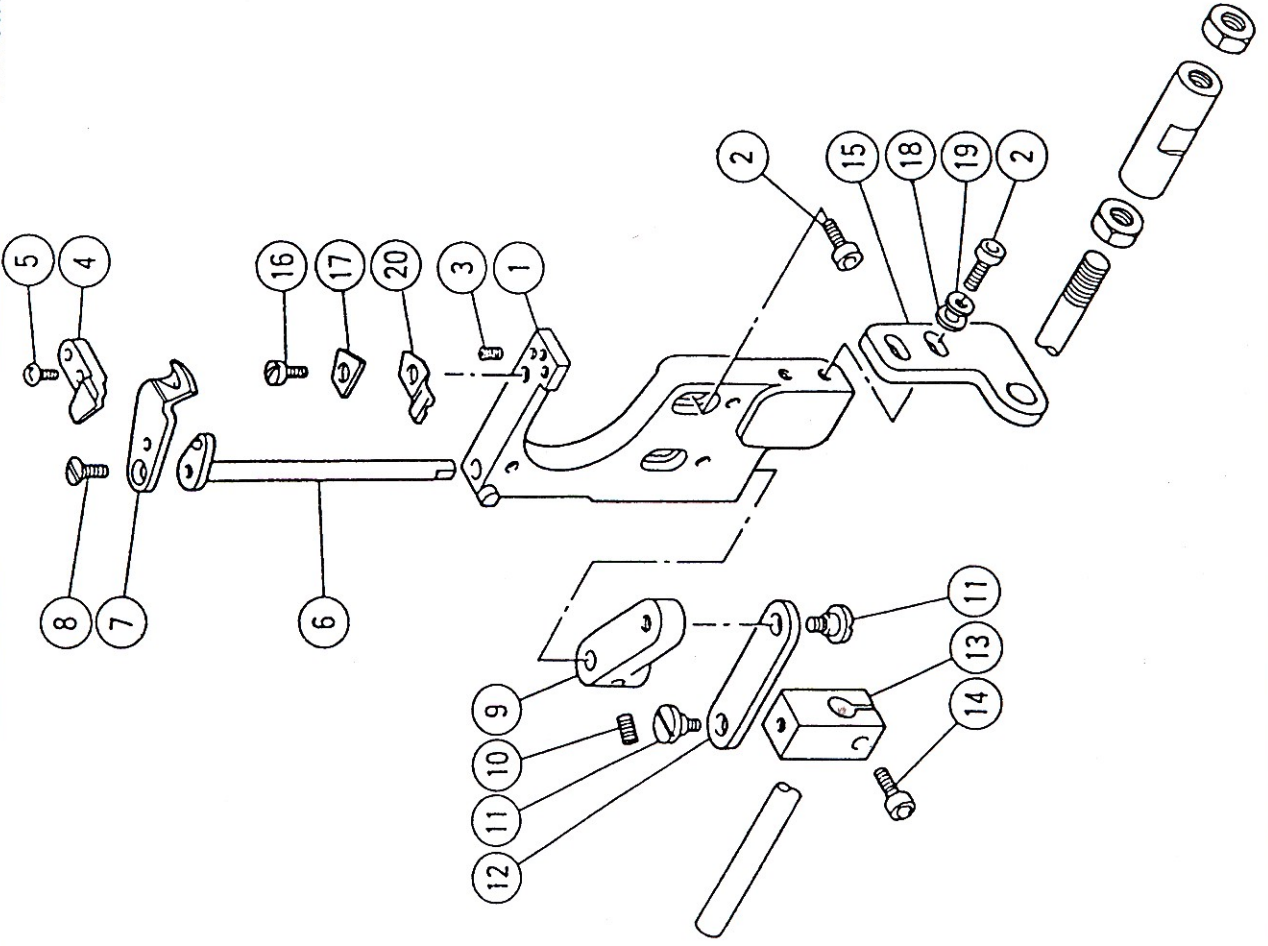


Cam Driving Mechanism

Ref.No.	Parts No.	Name	Specification	Quantity
1	3-1	cam holder		
2	3-2	hexagonal screw with columned cap	M8	
3	3-3	declining washer	8	
4	3-4	spring washer	8	
5	3-5	washer	8	
6	3-6	cam-base pedestal		
7	3-7	hexagonal screw with columned cap	M6	
8	3-8	hexagonal screw with columned cap	M8	
9	3-9	cam shaft		
10	3-10	cam		
13	3-13	cam washer		
15	3-15	washer of lever pin		
17	3-16	cam lever		
18	3-17	lever supporting pin		
19	3-18	soft washer		
20	3-19	replacement spring		
21	3-20	snap ring	12	
22	3-21	positioning washer of cam lever		
23	3-22	hexagonal screw with columned cap	M4	
24	3-23	cam pin		
25	3-24	nut	M6	
26	3-25	washer	6	
27	3-26	cam roller		
28	3-27	fastening screw		
29	3-28	driving pin of lever		
30	3-29	hexagonal screw with columned cap	M5	
31	3-30	guide shaft		

Ref.No.	Parts No.	Name	Specification	Quantity
32	3-31	thread-cutting shaft		
33	3-32	thread-cutting magnetic ring		
34	3-33	nut	M5	
35	3-34	spring washer	5	
36	3-35	washer	5	
37	3-36	washer of magnetic ring		
38	3-37	soft washer		
39	3-38	loop bearing		
40	3-39	screw		
41	3-40	loop board		
42	3-41	hexagonal screw with columned cap	M5	
49	3-48	cam-base cover		
50	3-49	screw	M5	
51	3-50	bracket lower shaft		
52	3-51	hexagonal screw with columned cap	M6	
53	3-52	washer	6	
54	3-53	spring washer	6	
55	3-54	lower shaft bearing holder		
56	3-55	inner-ring of lower shaft		
57	3-56	hexagonal screw with columned cap	M5	

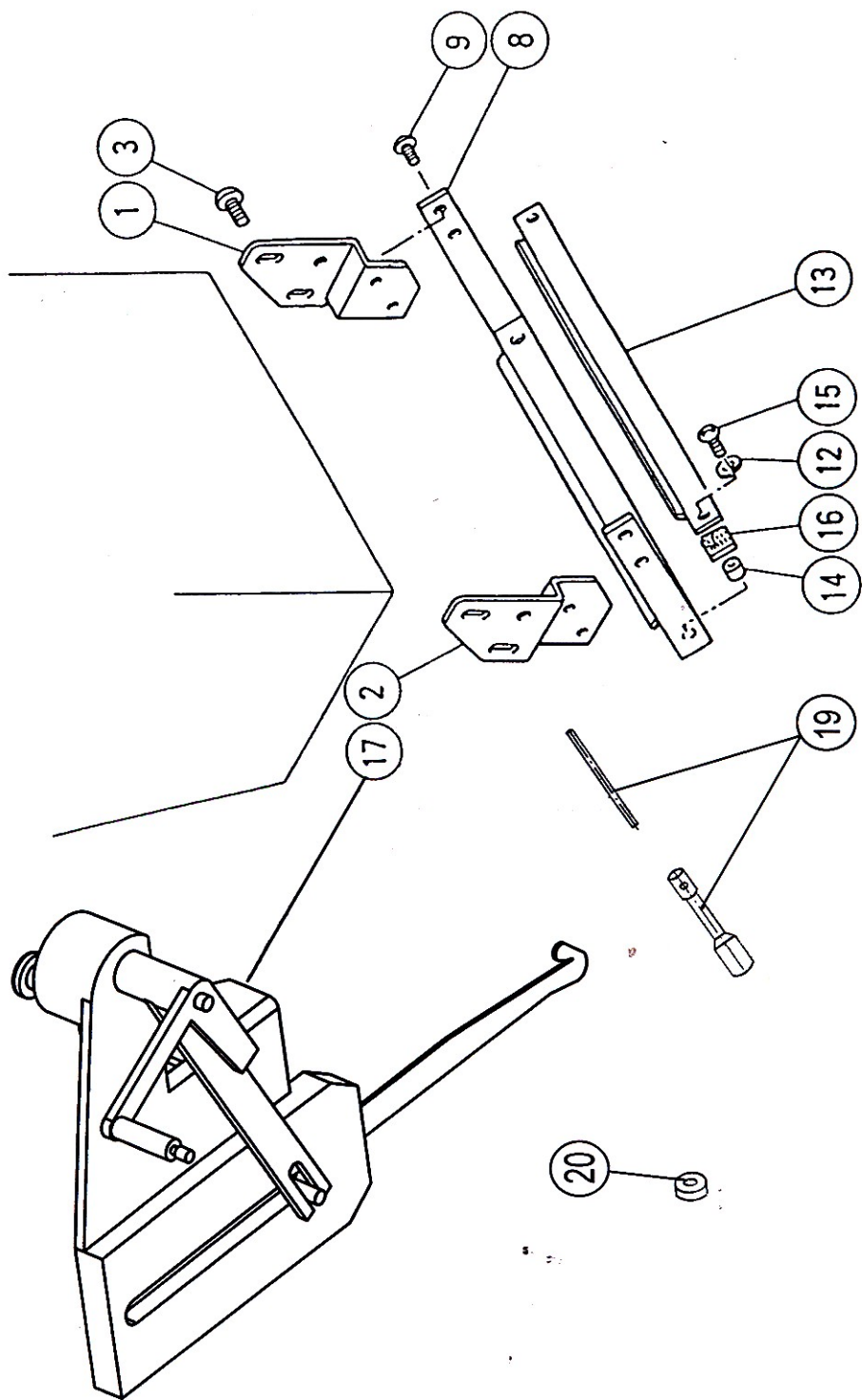
Thread-cutting Mechanism



Thread-cutting Mechanism

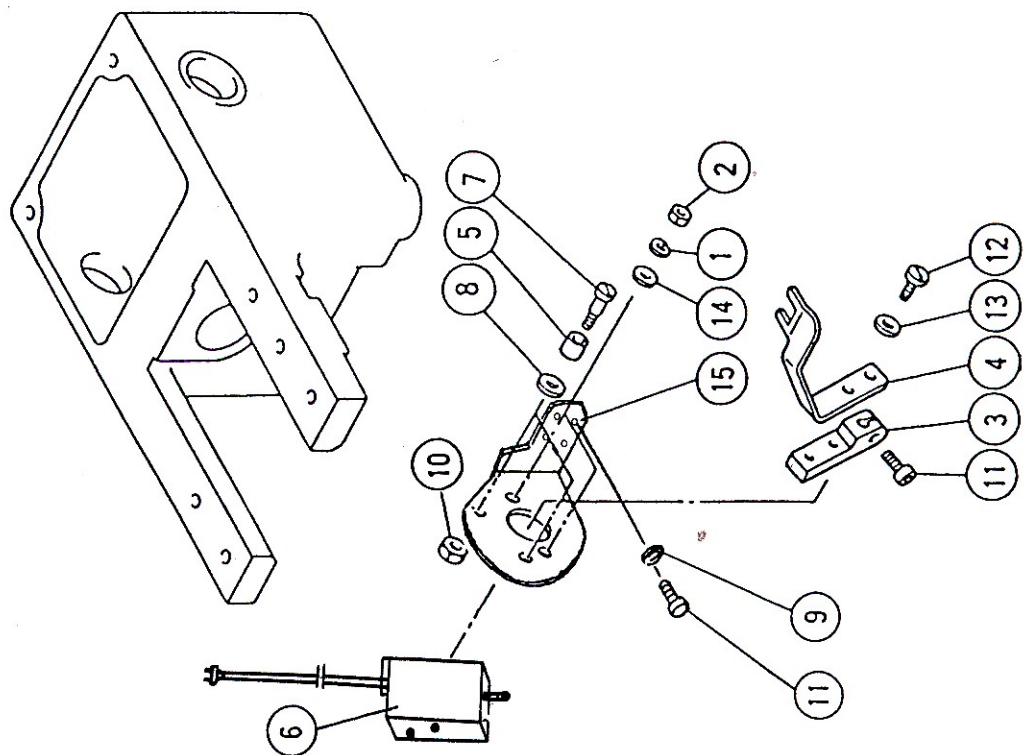
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Thread Poker Mechanism



Thread Poker Mechanism

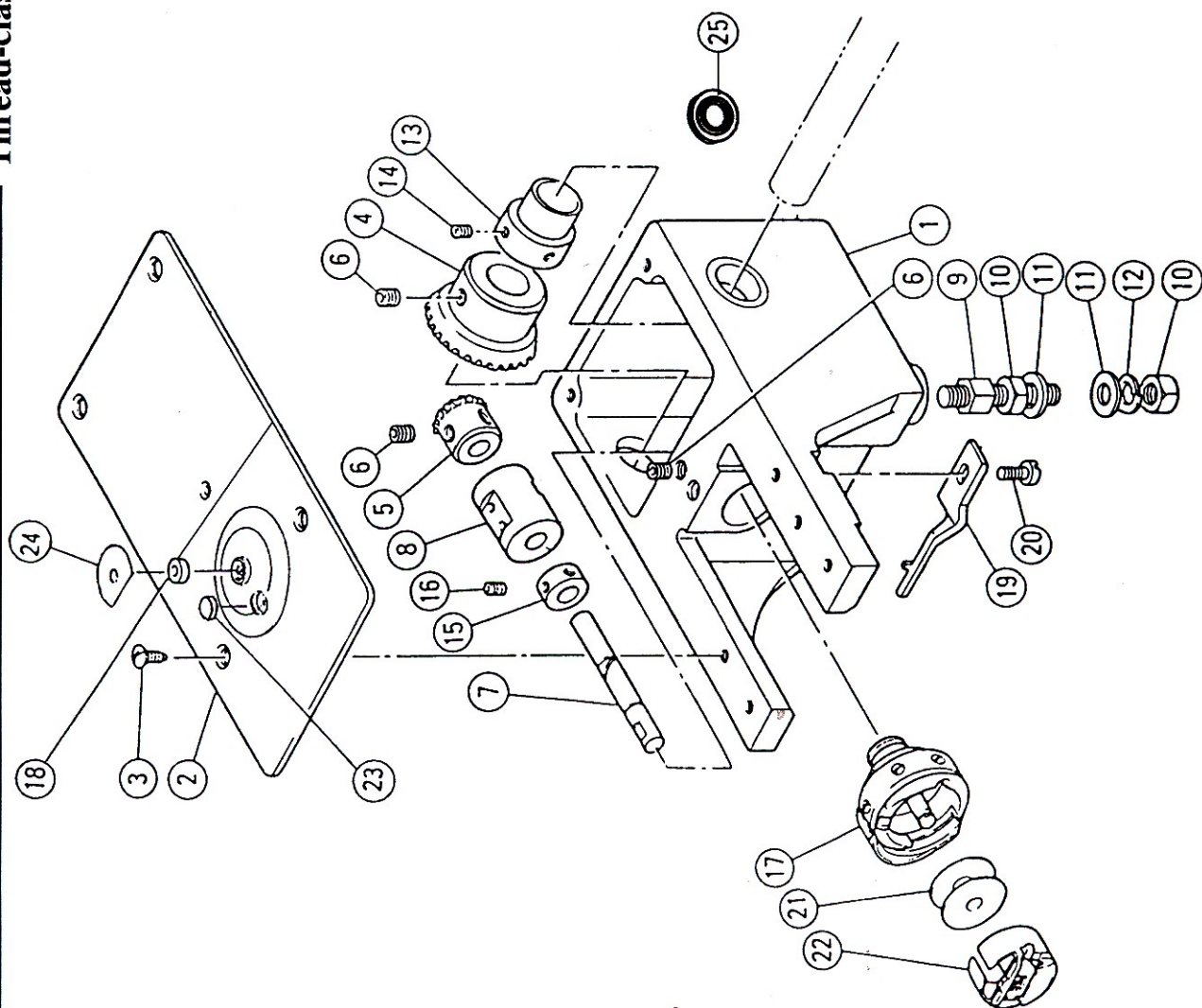
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Thread Retainer Subassembly

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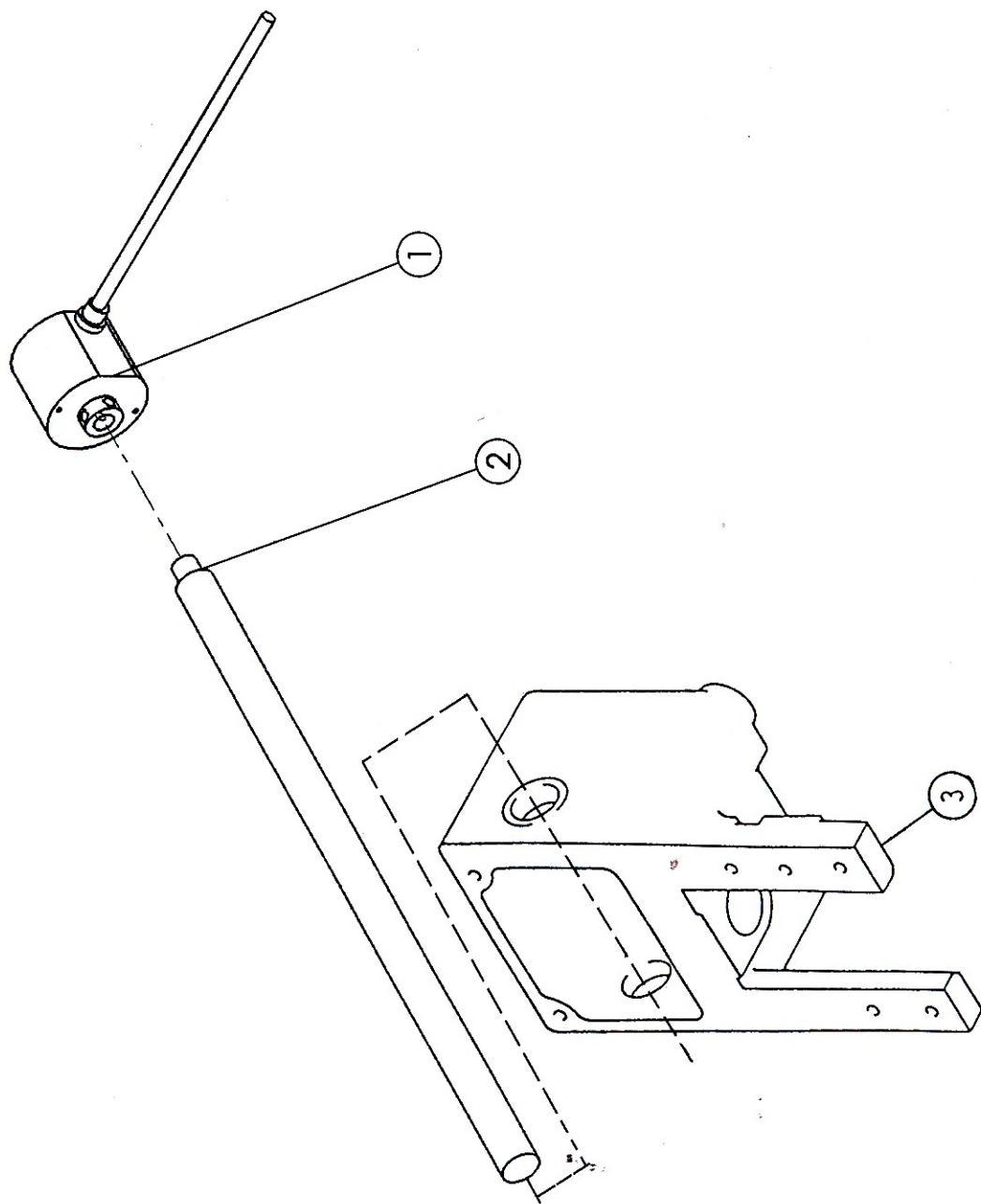
Thread-clasping Mechanism



Thread-clasping Mechanism

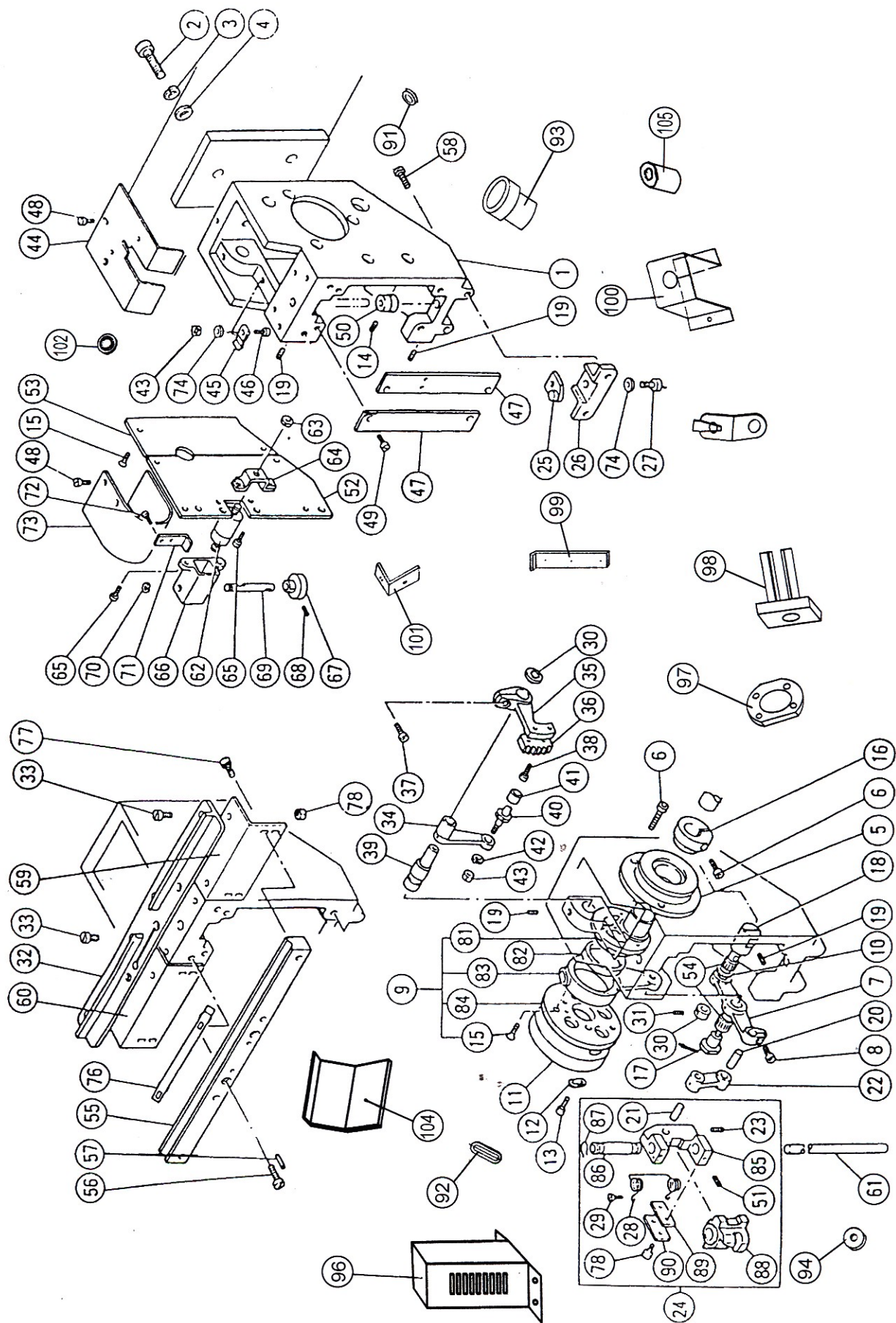
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Ref.No.	Parts No.	Name	Specification	Quantity
1	7-1	hook base		
2	7-2	needle plate		
3	7-3	needle plate screw		
4	7-4	coniform driving gear		
5	7-5	coniform donkey gear		
6	7-6	screw		
7	7-7	hook shaft		
8	7-8	bushing		
9	7-9	double-head bolt		
10	7-10	nut	M8	
11	7-11	washer	M8	
12	7-12	spring washer	8	
13	7-13	lower bushing		
14	7-14	screw	M5	
15	7-15	snap ring		
16	7-16	screw		
17	7-17	hook		
18	7-18	needle-hole gasket		
19	7-19	release supproting bracket		
20	7-20	screw		
21	7-21	bobbin		
22	7-22	bobbin case		
23	7-23	gasket		
24	7-24	anti-desquamation paper		
25	7-25	6003 bearing		



Photoelectric Shaft-corner Coder

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Machine Head

Ref.No.	Parts No.	Name	Specification	Quantity
1	9-1	head crust		
2	9-2	hexagonal screw with columned cap	M8	
3	9-3	spring washer	8	
4	9-4	washer		
5	9-5	bearing bushing		
6	9-6	hexagonal screw with columned cap	M5	
7	9-7	needle-bar driving bar		
8	9-8	screw		
9	9-9	needle-bar driving cam subassemblies		
10	9-10	washer		
11	9-11	thread take-up rod cam		
12	9-12	cam washer		
13	9-13	hexagonal screw with columned cap	M4	
14	9-14	screw		
15	9-15	screw		
16	9-16	cam bushing		
17	9-17	No.1 pin		
18	9-18	No.3 pin		
19	9-19	hexagonal fastening screw	M4	
20	9-20	No.4 pin		
21	9-21	No.2 pin		
22	9-22	needle-bar connecting rod		
23	9-23	hexagonal screw	M4	
24	9-24	needle-bar driving equipment		
25	9-25	positioning plate		
26	9-26	positioning holder		
27	9-27	positioning plate screw		

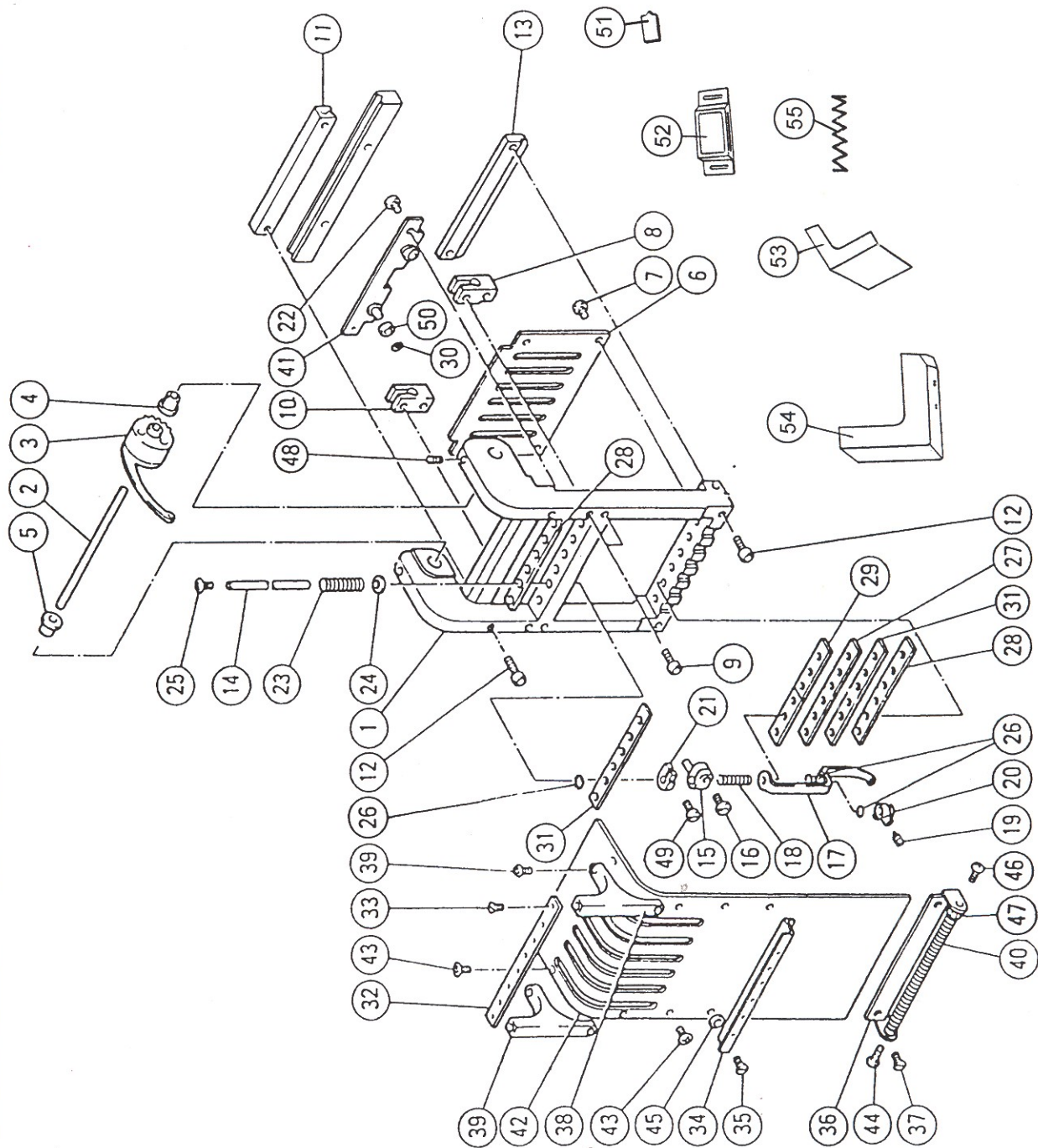
Ref.No.	Parts No.	Name	Specification	Quantity
28	9-28	jumping spring		
29	9-29	screw		
30	9-30	snap ring		
31	9-31	hexagonal fastening screw	M4	
32	9-32	thread take-up rod guide-orbit		
33	9-33	screw		
34	9-34	thread take-up driving rod (1)		
35	9-35	thread take-up driving rod (2)		
36	9-36	thread take-up rod driving gear		
37	9-37	hexagonal screw with columned cap	M4	
38	9-38	flat and round cap screw	M3	
39	9-39	thread take-up driving rod pin		
40	9-40	cam roller-pole		
41	9-41	cam roller		
42	9-42	spring washer	4	
43	9-43	nut	M3	
44	9-44	cover of machine head		
45	9-45	thread nip		
46	9-46	hexagonal screw	M3	
47	9-47	baffle board		
48	9-48	screw		
49	9-49	screw		
50	9-50	collapsible		
51	9-51	screw		
52	9-52	side cover of machine crust(1)		
53	9-53	side cover of machine crust(2)		
54	9-54	one-line centripetal needle bearing		

Machine Head

Ref.No.	Parts No.	Name	Specification	Quantity
55	9-55	middle guide-orbit		
56	9-56	tooth-drive crank screw		
57	9-57	columned pin	3	
58	9-58	screw of positioning supporting-board		
59	9-59	supporting-board of guide-orbit(right)		
60	9-60	supporting-board of guide-orbit(left)		
61	9-61	main driving shaft		
62	9-62	electromagnet		
63	9-63	nut		
64	9-64	bracket of electromagnet		
65	9-65	hexagonal screw with columed cap	M4	
66	9-66	cover of electromagnet		
67	9-67	clutch knob		
68	9-68	hexagonal fastening screw	M3	
69	9-69	clutch pin		
70	9-70	snap ring	4	
71	9-71	board-spring		
72	9-72	flat and round cap screw	M3	
73	9-73	cover of main shaft		
74	9-74	washer		
76	9-75	roller sliding board		
77	9-76	hexagonal bolt	M3	
78	9-77	nut of stitch-length spanner		
81	9-78	needle bar driving cam		
82	9-79	one-line centripetal needle bearing		
83	9-80	connecting rod		
84	9-81	cam holder		

Ref.No.	Parts No.	Name	Specification	Quantity
85	9-82	needle bar driving sliding-block		
86	9-83	driving bearing		
87	9-84	elastic snap ring for shaft using	10	
88	9-85	needle bar transmission block		
89	9-86	stop block		
90	9-87	position-limitation block		
91	9-88	dust cover F18		
92	9-90	pad		
93	9-91	thread picker		
94	9-92	hole block (nylon)		
96	9-102	cover of servo driving		
97	9-105	box for belt wheel (1)		
98	9-106	box for belt wheel (2)		
99	9-110	accessory for inner frame		
100	9-111	cover of stop switch		
101	9-115	light-controlled bracket		
102	9-116	bearing 626		
103	9-106	cover for servo-moter		
104	9-107	front cover (middle)		
105	9-128	6 × 6 magnet		

Needle Bar Holder

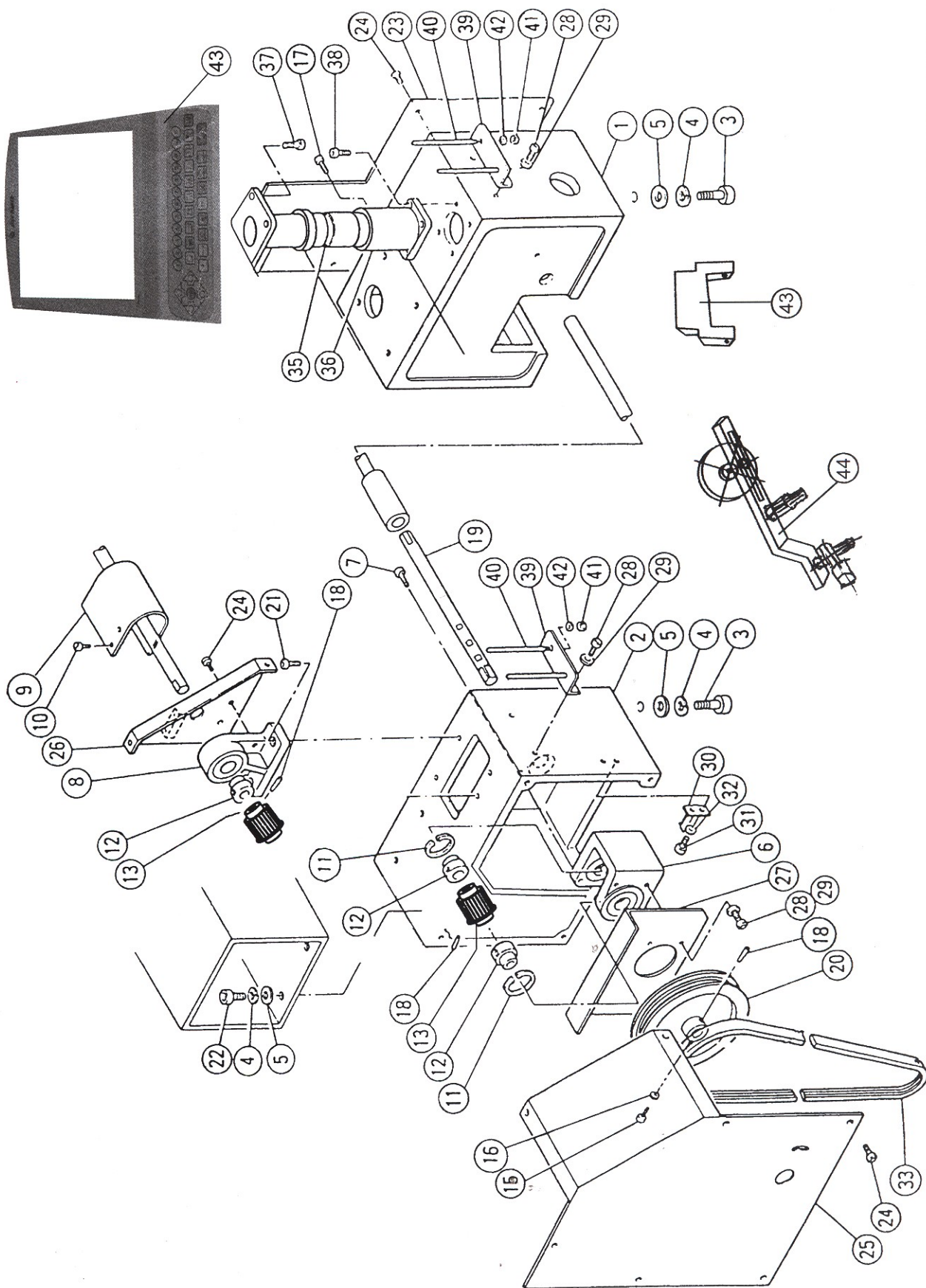


Needle Bar Holder

Ref.No.	Parts No.	Name	Specification	Quantity
1	10-1	needle bar holder		
2	10-2	thread take-up rod shaft		
3	10-3	thread take-up rod		
4	10-4	thread take-up rod bushing(right)		
5	10-5	thread take-up rod bushing(left)		
6	10-6	needle bar guide-board		
7	10-7	screw		
8	10-8	bracket of colour-change extension rod(right)		
9	10-9	hexagonal screw with columned cap	M4	
10	10-10	bracket of colour-change extension rod (left)		
11	10-11	upper guide-orbit		
12	10-12	hexagonal screw with columned cap	M5	
13	10-13	lower guide-orbit		
14	10-14	needle bar		
15	10-15	needle bar connecting shaft		
16	10-16	fastening screw of stitch-length holder		
17	10-17	presser foot		
18	10-18	presser foot spring		
19	10-19	screw		
20	10-20	needle clamp		
21	10-21	top stop-block		
22	10-22	screw		
23	10-23	jumping spring		
24	10-24	washer	6	
25	10-25	screw		
26	10-26	O-shaped ring		
27	10-27	pad		

Ref.No.	Parts No.	Name	Specification	Quantity
28	10-28	felt		
29	10-29	rubber pad		
30	10-30	single-line centripetal ball bearing		
31	10-31	adjusting pad		
32	10-32	upper thread guide		
33	10-33	screw	M3	
34	10-34	middle thread guide		
35	10-35	screw		
36	10-36	lower thread guide		
37	10-37	screw	M3	
38	10-38	bracket of thread guide		
39	10-39	flat and round screw		
40	10-40	thread tension spring		
41	10-41	guide-roller holder		
42	10-42	face plate		
43	10-43	screw		
44	10-44	flat and round screw	M4	
45	10-45	washer of thread guid bracket		
46	10-46	flat and round screw	M4	
47	10-47	hexagonal screw		
48	10-48	hexagonal fastening screw		
49	10-49	screw		
50	10-50	washer		
51	10-51	baffleboard		
52	10-52	magnetic clamp-spring		
53	10-53	front cover (left)		
54	10-54	front cover (right)		
55	10-55	pulling-bar spring		

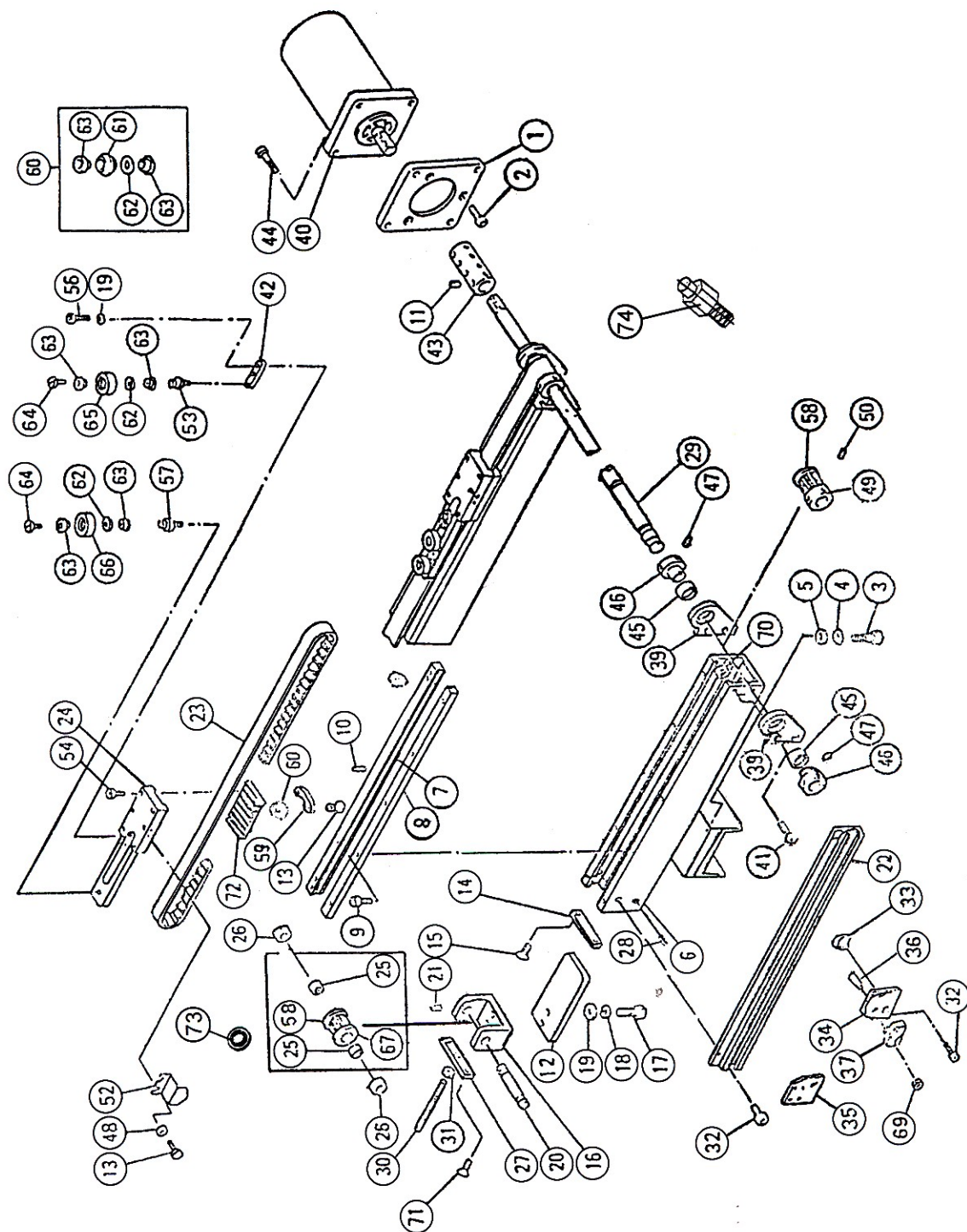
Main Driving System



Main Driving System

Ref.No.	Parts No.	Name	Specification	Quantity
1	11-1	tank crust		
2	11-2	tank of sprocket wheel		
3	11-3	hexagonal screw with columned cap	M10	
4	11-4	spring washer	10	
5	11-5	washer	10	
6	11-6	bearing holder		
7	11-7	hexagonal screw with columned cap	M8	
8	11-8	bearing holder		
9	11-9	shaft cover		
10	11-10	flat and round cap screw	M4	
11	11-11	snap ring	42	
12	11-12	bushing		
13	11-13	synchronwheel (A, B)		
17	11-17	hexagonal screw with columned cap	M6	
18	11-18	coniform pin with screw inside		
19	11-19	lower shaft		
20	11-20	donkey strap-wheel		
21	11-21	hexagonal screw with columned cap	M6	
22	11-22	hexagonal screw with columned cap	M10	
23	11-23	tank cover (right)		
24	11-24	flat and round cap screw	M5	
25	11-25	tank cover (left)		
26	11-26	sprocket wheel cover		
27	11-27	shield		
28	11-28	hexagonal screw with columned cap	M5	
29	11-29	washer	5	
30	11-30	angle pointer		

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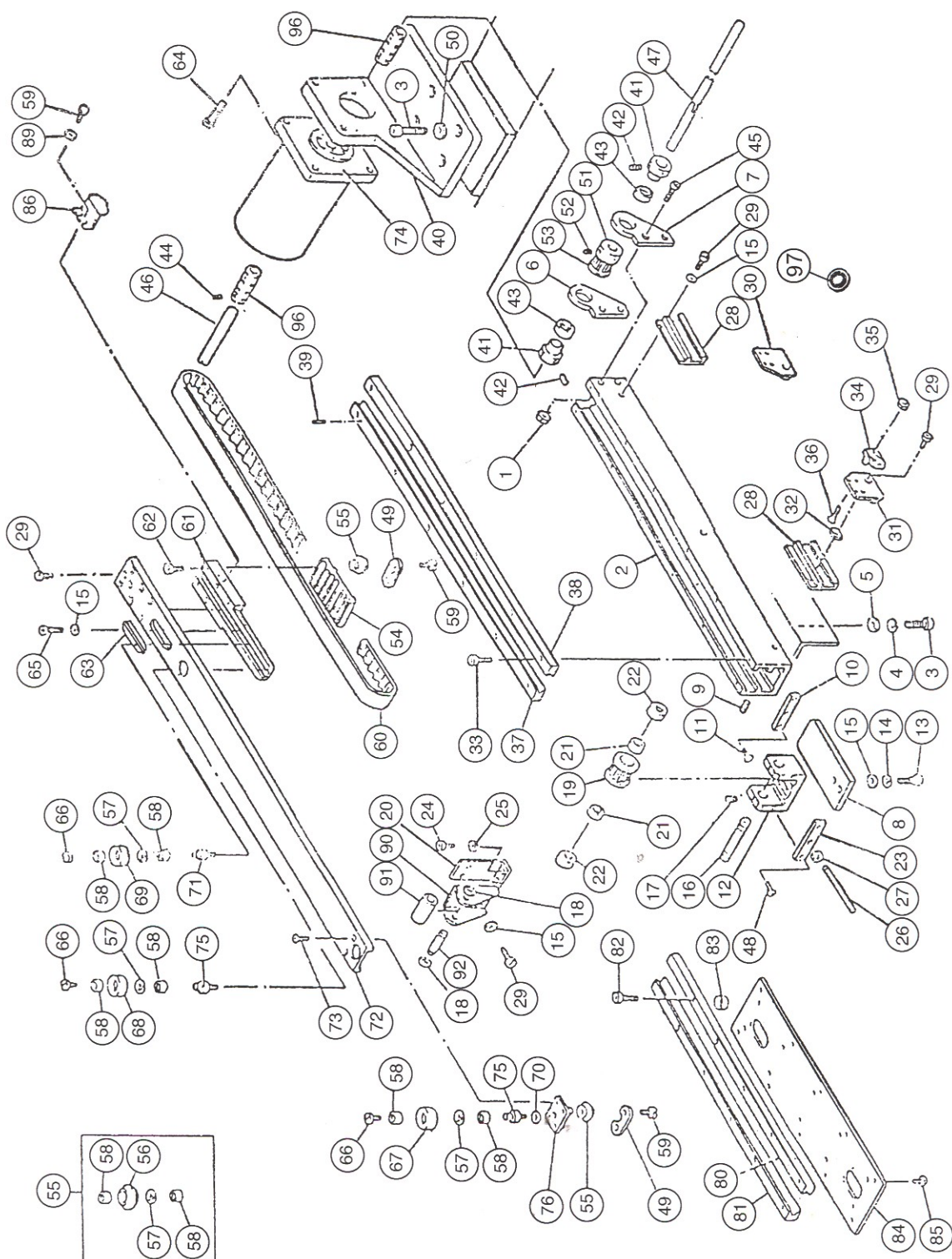
X-axis Driving System

Ref.No.	Parts No.	Name	Specification	Quantity
1	12-1	X-axis motor holder		
2	12-2	hexagonal screw with columned cap	M8	
3	12-3	hexagonal screw with columned cap	M8	
4	12-4	spring washer	8	
5	12-5	flat washer		
6	12-6	X-axis holder		
7	12-7	guide-orbit bar of X-axis (1)		
8	12-8	guide-orbit bar of X-axis (2)		
9	12-9	hexagonal screw with columned cap		
10	12-10	elastic pin		
11	12-11	hexagonal screw with columned cap	M4	
12	12-12	expansion holder	A3	
13	12-13	hexagonal screw with columned cap	M6	
14	12-14	tension baffle board		
15	12-15	screw	M4	
16	12-16	expansion supporting holder		
17	12-17	hexagonal screw with columned cap	M4	
18	12-18	spring washer	4	
19	12-19	flat washer		
20	12-20	expansion shaft		
21	12-21	hexagonal screw with columned cap	M4	
22	12-22	slide holder		
23	12-23	synchronous pulley belt		
24	12-24	X-axis driving board (1)		
25	12-25	needle bearing		
26	12-26	tension space block		
27	12-27	tension board		

Ref.No.	Parts No.	Name	Specification	Quantity
28	12-28	hexagonal fastening screw	M5	
29	12-29	X-axis driving shaft		
30	12-30	expansion bolt column		
31	12-31	hexagonal nut	M6	
32	12-32	hexagonal screw with columned cap	M4	
33	12-33	fastening holder		
34	12-34	position-limit switch holder (right)		
35	12-35	position-limit switch holder (left)		
36	12-36	screw	M2.5	
37	12-37	position-limit switch		
38	12-38	supporting holder of bearing (2)		
39	12-39	supporting holder of bearing (1)		
40	12-40	X-axis pulse motor		
41	12-41	hexagonal screw with columned cap	M6	
42	12-42	idler wheel holder		
43	12-43	shaft segment		
44	12-44	hexagonal screw with columned cap	M8	
45	12-45	needle bearing		
46	12-46	needle bearing positioning ring		
47	12-47	hexagonal fastening screw	M5	
48	12-48	flat washer		
49	12-49	driving synchrowheel		
50	12-50	hexagonal fastening screw	M8	
52	12-52	LC baffle block		
53	12-53	fastening idler wheel pin		
54	12-54	hexagonal screw with columned cap	M4	
56	12-56	hexagonal screw with columned cap	M4	

X-axis Driving System

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Y-axis Driving System

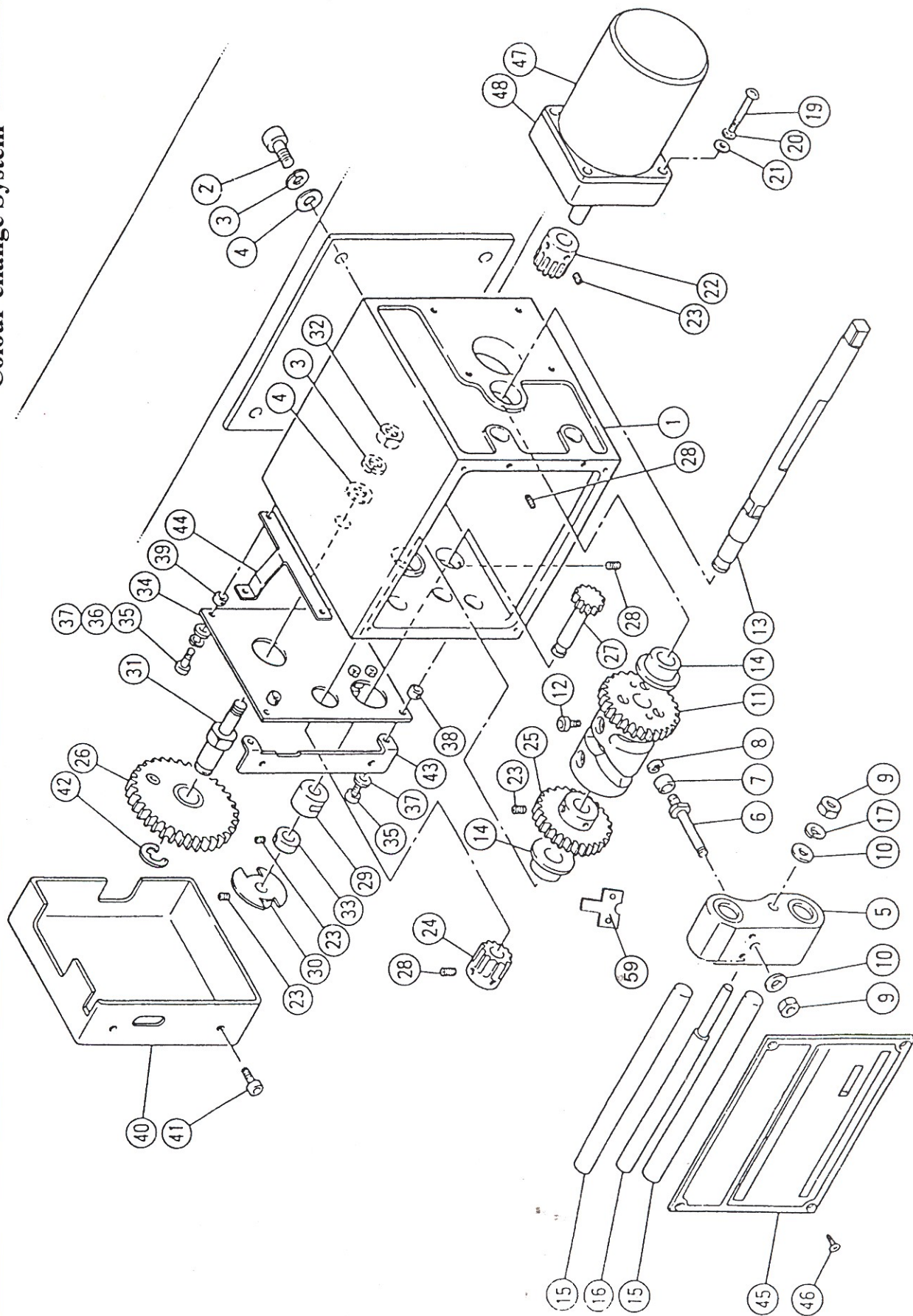
Ref.No.	Parts No.	Name	Specification	Quantity
1	13-1	hexagonal nut	M6	
2	13-2	bracket of Y-axis driving holder		
3	13-3	hexagonal screw with columned cap	M8	
4	13-4	spring washer	8	
5	13-5	flat washer		
6	13-6	bearing supporting-board (right)		
7	13-7	bearing supporting-board (left)		
8	13-8	expansion holder board		
9	13-9	hexagonal fastening screw	M5	
10	13-10	tension baffle board (1)		
11	13-11	screw	M4	
12	13-12	expansion supporting holder		
13	13-13	hexagonal screw with columned cap	M4	
14	13-14	spring washer	4	
15	13-15	flat washer		
16	13-16	expansion shaft		
17	13-17	hexagonal fastening screw	M4	
18	13-18	snap ring	6	
19	13-19	tension synchrowheel		
20	13-20	guide bracket		
21	13-21	needle bearing		
22	13-22	tension space-ring		
23	13-23	tension board (2)	M5	
24	13-24	hexagonal screw with columned cap		
25	13-25	flat washer		
26	13-26	tension bolt pole		
27	13-27	hexagonal nut	M6	

Ref.No.	Parts No.	Name	Specification	Quantity
28	13-28	slide holder		
29	13-29	hexagonal screw with columned cap	M4	
30	13-30	position-limit switch holder (right)		
31	13-31	position-limit switch holder (left)		
32	13-32	fastening block		
33	13-33	hexagonal screw with columned cap	M4	
34	13-34	position-limit switch		
35	13-35	hexagonal nut	M2.5	
36	13-36	screw	M2.5	
37	13-37	Y-axis guide iron-strip (1)		
38	13-38	Y-axis guide iron-strip (2)		
39	13-39	spring pin	A3	
40	13-40	Y-axis motor holder		
41	13-41	needle bearing positioning ring		
42	13-42	hexagonal fastening screw	M5	
43	13-43	needle bearing		
44	13-44	hexagonal fastening screw	M6	
45	13-45	hexagonal screw with columned cap	M6	
46	13-46	Y-axis driving shaft (left)		
47	13-47	Y-axis driving shaft (right)	M5	
48	13-48	screw	M5	
49	13-49	idler wheel fastening board		
50	13-50	flat-board ring		
51	13-51	driving synchrowheel		
52	13-52	hexagonal fastening screw	M8	
53	13-53	synchrobelt snap ring		
54	13-54	pulley belt clamp board		

Y-axis Driving System

Ref.No.	Parts No.	Name	Specification	Quantity
55	13-55	guide wheel subassembly		
56	13-56	guide wheel		
57	13-57	snap ring	13	
58	13-58	ball bearing		
59	13-59	hexagongal screw with columned cap	M3	
60	13-60	synchronic pulley belt		
61	13-61	Y-axis driving board		
62	13-62	hexagongal screw with columned cap	M4	
63	13-63	fastening idler wheel holder		
64	13-64	hexagongal screw with columned cap	M8	
65	13-65	hexagongal screw with columned cap	M4	
66	13-66	screw for fastening the idler wheel		
67	13-67	plastic idler wheel (1)		
68	13-68	plastic idler wheel (2)		
69	13-69	plastic idler wheel (3)		
70	13-70	flat washer		
71	13-71	fastening idler wheel pin		
72	13-72	Y-axis driving connecting board		
73	13-73	screw	M4	
74	13-74	Y-axis pulse motor		
75	13-75	fastening idler wheel pin		
76	13-76	Y-axis driving board (front)		
80	13-80	Y-axis (front)guide iron-strip (right)		
81	13-81	Y-axis (front)guide iron-strip (left)		
82	13-82	hexagongal screw with columned cap	M4	
83	13-83	guide-orbit space block		
84	13-84	bracket board of the front guide-orbit		

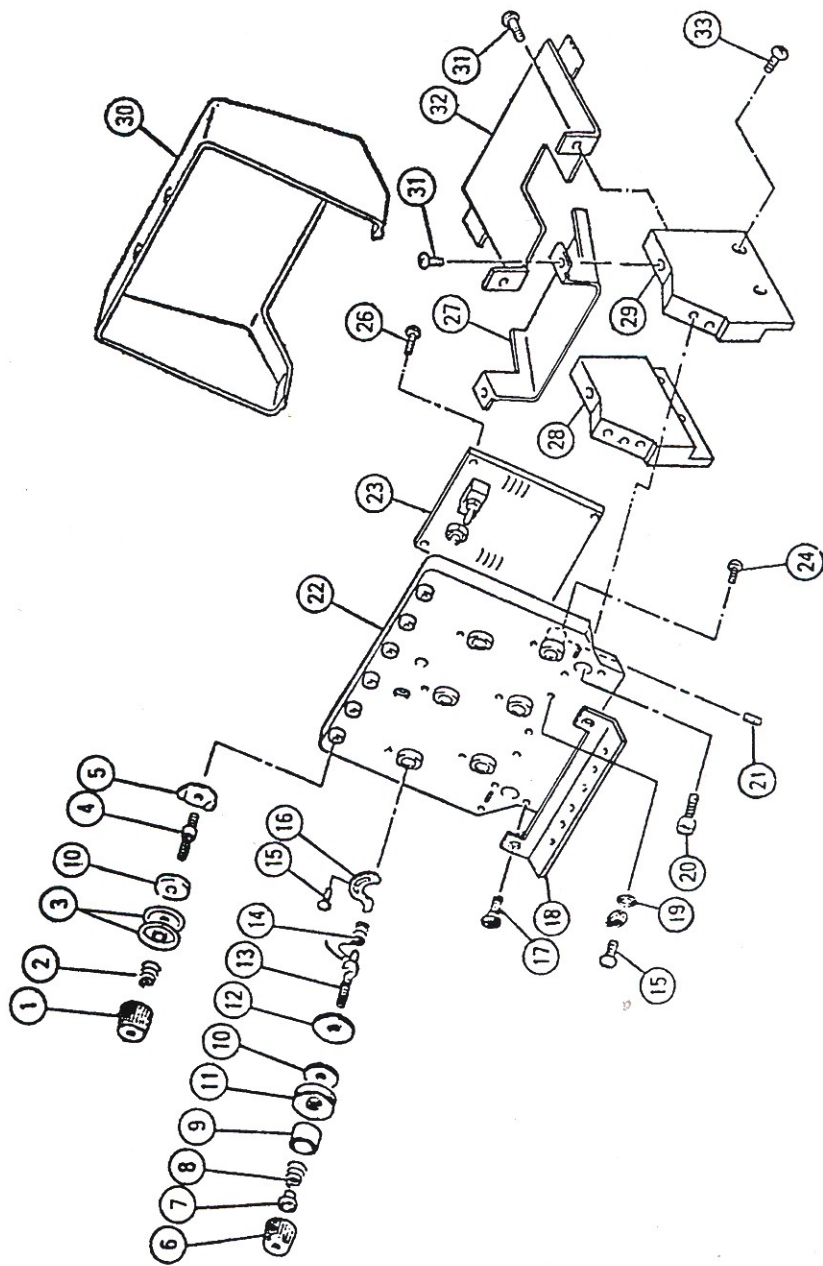
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Colour-change System

Ref.No.	Parts No.	Name	Specification	Quantity
1	14-1	tank crust		
2	14-2	hexagongal screw with columned cap	M8	
3	14-3	spring washer	8	
4	14-4	washer	8	
5	14-5	driving block		
6	14-6	cam pin spindle		
7	14-7	cam roller		
8	14-8	snap ring for shaft-use	6	
9	14-9	nut	M6	
10	14-10	washer	6	
11	14-11	colour-change camshaft gear		
12	14-12	hexagongal screw with columned cap	M6	
13	14-13	colour-change camshaft		
14	14-14	camshaft bush		
15	14-15	leader		
16	14-16	driving rod		
17	14-17	spring washer	6	
19	14-19	hexagongal screw with columned cap	M5	
20	14-20	spring washer	5	
21	14-21	washer	5	
22	14-22	electromotor gear		
23	14-23	hexagonal fastening screw	M4	
24	14-24	end gear		
25	14-25	half-running driving gear		
26	14-26	needle-position gear		
27	14-27	half-running gear		
28	14-28	hexagonal fastening screw	M5	

Ref.No.	Parts No.	Name	Specification	Quantity
29	14-29	half-running gear bush		
30	14-30	switch ferrule		
31	14-31	needle-position gear-shaft		
32	14-32	nut	M8	
33	14-33	snap ring	Diameter:8	
34	14-34	needle-position measure-board		
35	14-35	hexagongal screw with columned cap	M4	
36	14-36	spring washer	4	
37	14-37	washer	4	
38	14-38	washer		
39	14-39	washer		
40	14-40	cover		
41	14-41	spherical screw with columned cap	M4	
42	14-42	snap ring for shaft-use	12	
43	14-43	cover bracket		
44	14-44	bracket		
45	14-45	faceplate		
46	14-46	screw		
47	14-47	colour-change electromotor		
48	14-48	colour-change electromotor gear-box		
58	14-58	hexagonal screw with columned cap	M3	
59	14-59	pointer of color-change box		



Thead-clamping System

Ref.No.	Parts No.	Name	Specification	Quantity
1	15-1	adjusting screw		
2	15-2	tension screw		
3	15-3	thread-clamping piece		
4	15-4	tension bolt		
5	15-5	thread guide board		
6	15-6	pressure adjustor		
7	15-7	spring hoop		
8	15-8	tension spring		
9	15-9	expansion ring		
10	15-10	felt		
11	15-11	rotary thread-clamping piece		
12	15-12	insulated plate		
13	15-13	tension screw		
14	15-14	thread take-up spring		
15	15-15	screw	M3	
16	15-16	electricity trans ^m mitter (plate)		
17	15-17	screw	M3	
18	15-18	guide board for the upper thread		
19	15-19	thread guide ring		
20	15-20	hexagonal screw with columned cap	M4	
21	15-21	hexagonal fastening screw	M3	
22	15-22	independent thread-clamping holder		
23	15-23	basic board of thread-clamping holder		
24	15-24	screw	M3	
26	15-26	screw	M3	
27	15-27	wire supporting cover		
28	15-28	bracket of thread-clamping holder (left)		

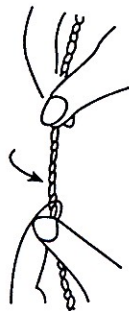
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The Relation Between Needle, Thread, and Hook

I . How to choose top thread and bobbin thread, how to thread the bobbin case, and how to adjust the thread tension:

1. How to choose top thread:

Please use the thread of high-quality instead of the thread with different thickness. Please use Z twisting-thread (left twisting-thread). When twisting the thread, move the thread in your right hand counter-clockwise, at the same time fix the Z twisting-thread.

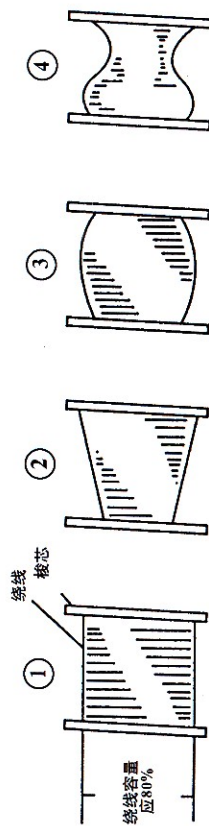


2. How to choose the bobbin thread:

- (1) The bobbin thread should be the cotton one.
- (2) The bobbin thread should be the 100#~200# cotton thread with high quality. If you choose the thread that too thick or too thin, it will be easy to break and the quality of the embroidered production will be bad.

3. How to wind the bobbin:

- (1) Wind the bobbin thread to the hook (chart ①)
- (2) If you wind it like chart ②, chart ③, or chart ④, it will be easy to break and jam, or affect the he quality of the embroidered production.
- (3) It is better to wind 80% of the bobbin. If more than that, it will be hard to pull the thread out.



4. How to thread the bobbin case:

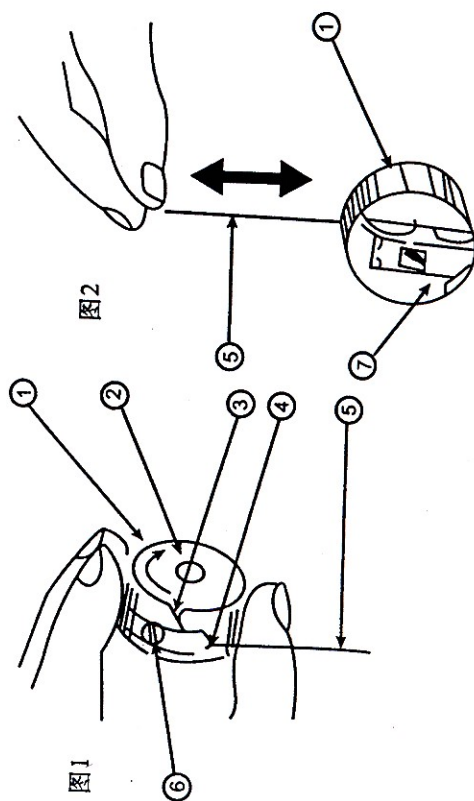
- (1) Put the wound bobbin ② into bobbin case ①.
- (2) Put the thread into the notch ③, and wind it across baffle board ④.
- (3) Make sure that the thread run as the direction that the arrow indicates.

Remark: The bobbin should run in the bobbin case smoothly.

- (4) Adjust the screw ⑥ to achieve the proper tension of the bobbin thread.

If proper the thread can be pulled out of the bobbin case smoothly.

- (5) About 50MM-long bobbin thread should be pulled out of the bobbin case. If too long the thread will be easy to break when you begin to sew.



II . The relation between needle and hook:

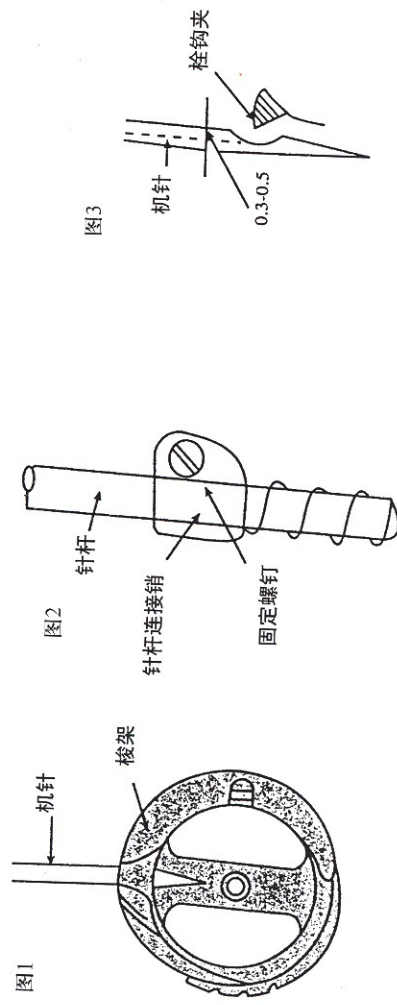
Chart 1 shows the cooperating relation of needle and hook: when the needle reach the lowermost position, the whole pinhole or half the pinhole should pass the hook frame.

Don't do any adjustment about what Chart 2 shows, except under the

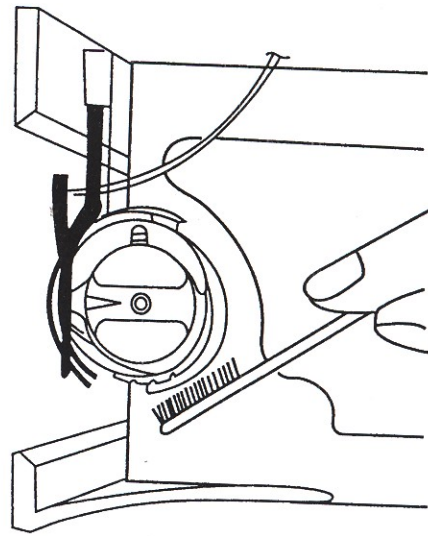
condition that the needle is not in the position as Chart 1 shows.

Way of adjusting: When the needle is at the lowermost position (173°), but the pinhole can not be not at the position as Chart 1 shows, you can loosen the fastening screw of needle bar connecting pin so as to adjust the needle bar upwards or downwards. After adjust the position as Chart 1 shows, please fasten the screw again.

The space between the needle and the hook time (0.3MM-0.5MM) should be changed according to the fabric and the pattern.



Hook cleaning: The hook should be kept clean because it is one of the most important parts of machine.
Way of cleaning: Use brush to clean out the dust and cotton thread, then oil it (2-3 times).



Causes and Remedies

Trouble Classification	Cause	Remedy
Thread Breaks	Needle bend	Replace the needle
	Incorrect needle installation	Install correctly
	Needle hits the hook	Adjust the position of the hook
	Bad-quality thread	Change high-quality needle
	Needle becomes blunt	Change a new one
	Needle size misfit the thread and fabric	Change proper-sized needle
	Too loose needle thread	Adjust the tension of the needle thread
Loose Stitch	Too loose bobbin thread	Adjust the tension of the needle thread
	Thread with different thickness	Change thread with high quality
	Unstable tension of the needle thread	Clean the thread-clamp
	Unstable tension of the bobbin thread	Clean the bobbin case and hook frame
	Unsynchronous running of the hook and needle	Adjust the cooperation of the needle and hook
	Lacking lubrication of the hook	Oil the hook

Causes and Remedies

Trouble Classification	Cause	Remedy
Thread Breaks	Bad-quality thread	Change thread with high quality
	The used thread is thicker than needle	please use proper thread
	Using bent needle	Change a new needle
	Rough needle or needle with too long slot	Change needle with high quality
	Incorrect needle installation	Install correctly
	The thread is too thick	Use needle of bigger size
	Too tense needle thread	Adjust the tension
	Too high or too low needle position	Adjust the cooperation of the needle and hook
	Unstable tension of the needle thread	Clean the thread-clamp mechanism
	Unsynchronous running of the hook and needle	Adjust the cooperation of the needle and hook
	Unsmooth guide-hole of the needle-plate	Burnish it
	Too complicated pattern	Press the pattern program button
	Overuse of glue when applique embroidery	Clean the needle, hook and clean out the extra glue
	Lacking lubrication of the hook	Oil the hook
	Using bent needle	Change a new one
Loose Stitch	Needle size misfit the thread	Change proper-sized needle
	Incorrect needle installation	Install correctly
	Too high or too low needle position	Adjust the cooperation of the needle and hook
	The space between needle and hook is too big	Adjust the relationship of the needle and hook
	Unsynchronous running of the hook and needle	Adjust the cooperation of the needle and hook
	Too blunt hook-tine	Burnish it with exquisite millstone