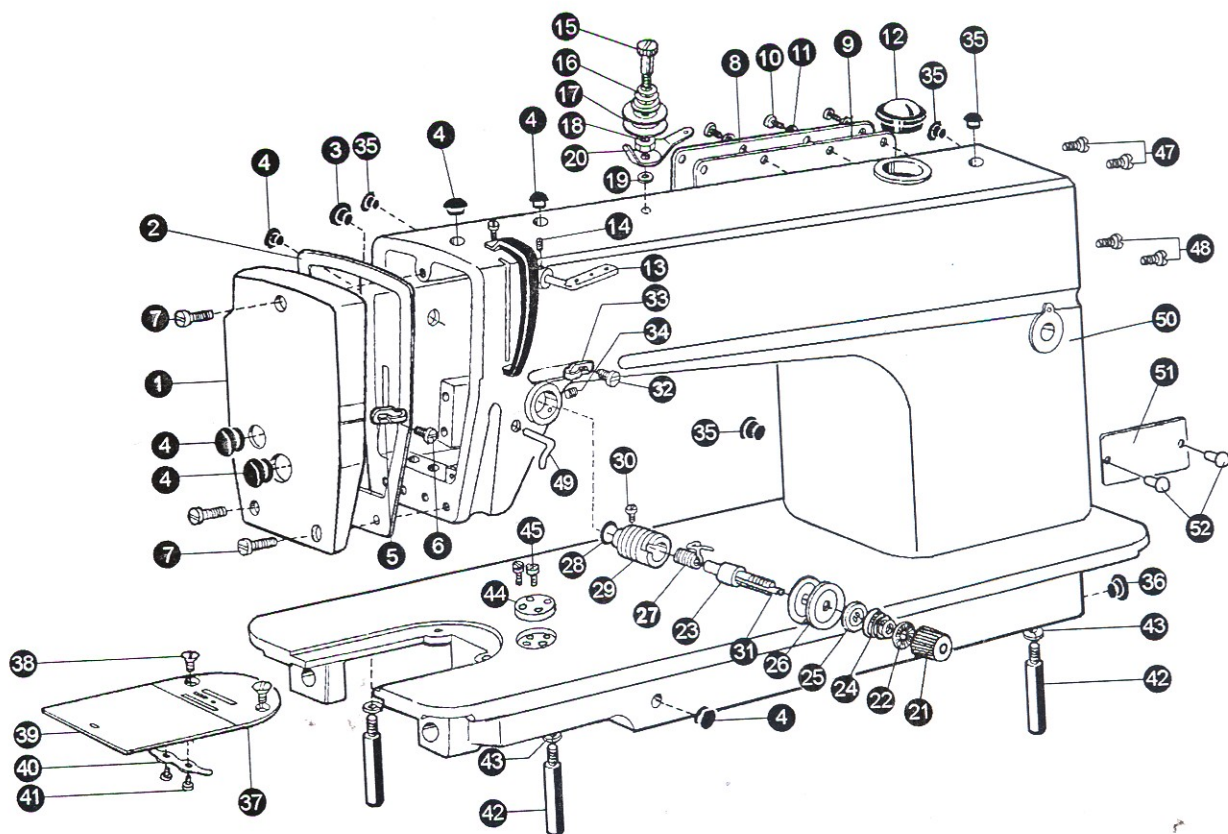




TYPICAL

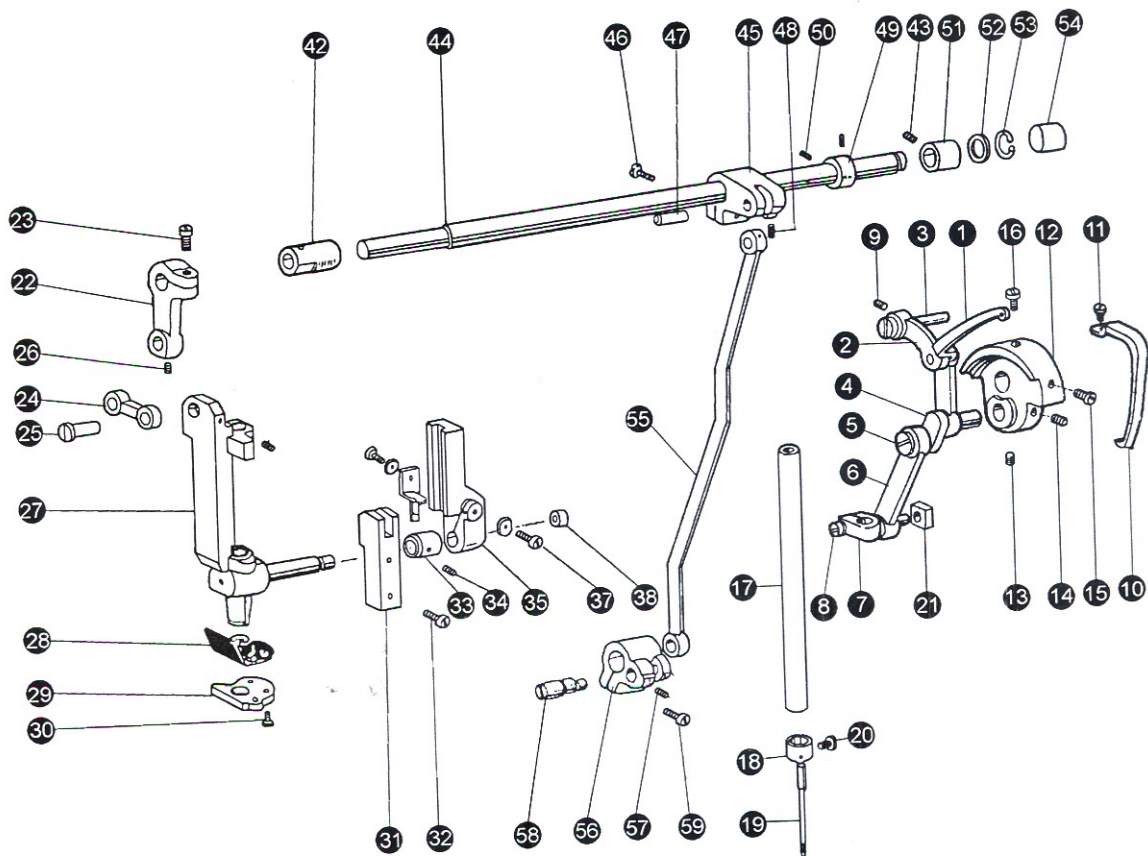
GC6160 SERIES

HIGH SPEED LOCKSTITCH SEWING MACHINE
WITH NEEDLE FEEDING
INSTRUCTION BOOK
PARTS CATALOGUE



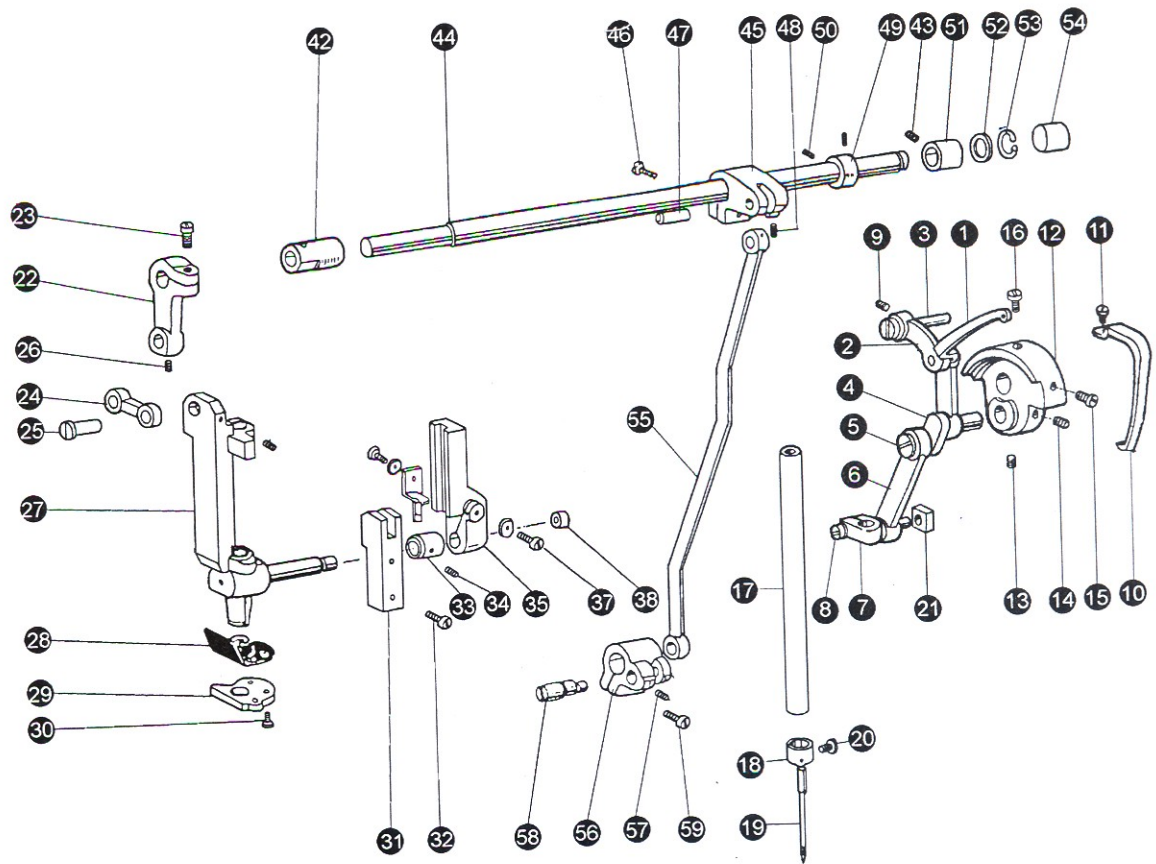
1. ARM BED AND ITS ACCESSORIES

No.	Ref. No.	Description	Qt.		
			M	H	B
1	027100002	Face plate	1	1	1
2	027100003	Gasket for face plate	1	1	1
3	22T1 - 003C3	Rubber plug (Ø19)	1	1	1
4	22T1 - 003C4	Rubber plug (Ø11.8)	6	6	6
5	22T1 - 003C5	Threade guide on face plate	1	1	
	078130001	Threade guide on face plate			1
6	22T1 - 003C6	Threade guide screw	1	1	1
7	22T1 - 004	Face plate screw	3	3	3
8	22T1 - 005D1	Back plate	1	1	1
9	22T1 - 005D2	Gasket for rack plate	1	1	1
10	22T1 - 006	Set screw	8	8	8
11	22T1 - 007	Washer	8	8	8
12	22T1 - 008H	Oil check window	1	1	1
13	22T1 - 010	Three hole thread guide	1	1	1
14	28T4 - 083	Set screw	1	1	1
15	22T1 - 009E1	Screw	1	1	1
16	22T1 - 009E2	Spring for pre - tension	1	1	1
17	22T1 - 009E3	Discs for pre - tension	2	2	2
18	22T1 - 009E4	Washer	1	1	1
19	GB896 - 86	Spring washer 3	1	1	1
20	22T1 - 009E5	Threade guide for pre - tension	1	1	1
21	124T1 - 003C1	Knub for thread tension regulator	1	1	1
22	22T1 - 012F10	Thumb nut revdution stoper	1	1	1
23	22T1 - 012F11	Threade tension stud	1	1	1
24	22T1 - 012F3	Threade tension spring	1		
	048110001	Threade tension spring		1	1
25	22T1 - 012F4	Threade tension releasing disc	1	1	1
26	22T1 - 012F5	Threade tension disc	2	2	2
27	22T1 - 012F6	Threade take - up spring	1		
	048110002	Threade take - up spring		1	1
28	22T1 - 012F11	Rubber ring	1	1	1
29	22T1 - 012F7	Threade tension regulating bushing	1	1	1
30	22T1 - 012F8	Set screw	1	1	1
31	22T1 - 012F9	Threade tension releasing pin	1	1	1
32	22T1 - 003C6	Set screw	1	1	1
33	22T1 - 014	Threade guider for arm center	1	1	
	078100005	Threade guider for arm center			1
34	22T1 - 013	Set screw	1	1	1
35	22T1 - 015	Rubber plug (Ø8.8)	5	5	5
36	22T1 - 016	Rubber plug (Ø27)	1	1	1
37	027100004	Needle plate	1		
	027100004	Needle plate		1	1
38	22T1 - 020	Needle plate screw	2	2	2
39	22T1 - 021G1	Slide plate	1	1	1
40	22T1 - 021G2	Spring for slide plate	1	1	1
41	22T1 - 021G3	Screw	2	2	2
42	48T1 - 005	Leg	3	3	3
43	GB93 - 87	Washer 6	3	3	3
44	57T1 - 008	Ruler plate	1	1	1
45	124T1 - 004	Ruler screw	2	2	2
47	22T1 - 006	Screw	2	2	2
48	22T8 - 009	Screw	2	2	2
49	027100005	Slack thread regulator	1	1	1
50	027101000	Machine arm assembly	1	1	
	027101100	Machine arm assembly			1
51	027100001	Trade mark plate	1		
	027100101	Trade mark plate		1	
	027100201	Trade mark plate			1
52	GB827 - 86	Rivet (2.5 x 5)	2	2	2



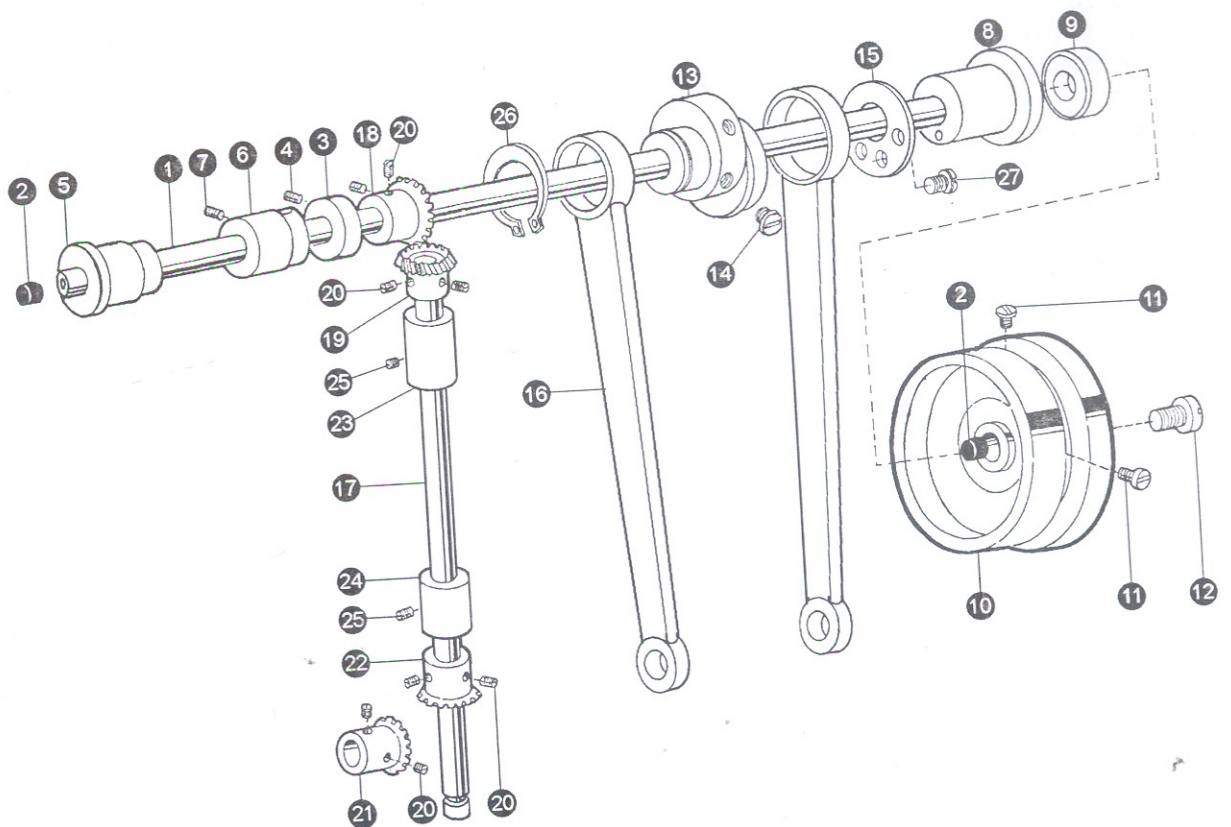
2. NEEDLE MECHANISM

No.	Ref. No.	Description	Qt.		
			M	H	B
1	22T2 - 001A1a	Thread take - up lever	1		
	48T2 - 001A1a	Thread take - up lever		1	
	78T2 - 001A1a	Thread take - up lever			1
2	22T2 - 001A2	Thread take - up link	1	1	1
3	22T2 - 001A3	Thread take - up lever hinge pin	1	1	1
4	22T2 - 001A4	Thread take - up crank	1		
	78T2 - 001A2	Thread take - up crank		1	1
	22T2 - 001A5	Needle roller bearing	2	2	2
5	22T2 - 001A6	Set screw (left hand thread)	1	1	1
6	22T2 - 001A7b	Needle bar link ass	1		
	48T2 - 001A2	Needle bar link		1	1
7	22T2 - 001A8	Needle bar connecting bar joint	1	1	1
8	22T2 - 001A9	Screw	1	1	1
9	22T1 - 006	Screw	1	1	1
10	36T2 - 007	Take - up lever guard	1	1	
	078200002	Take - up lever guard			1
11	22T2 - 004	Screw	1	1	1
12	22T2 - 005B1	Needle bar crank	1		
	048220001	Needle bar crank		1	1
13	22T2 - 005B2	Screw	1	1	1
14	22T2 - 005B3	Thread take - up crank position screw	1	1	1
15	22T2 - 006	Screw	1	1	1
16	22T2 - 007	Thread take - up crank position screw	1	1	1
17	153200001	Needle bar	1	1	1
18	22T2 - 015	Thread guide for needle bar	1	1	1
19	58T3 - 001A10	Needle (DP x5 14#)	1		
	S150901003	Needle (DP x5 22#)		1	1
20	22T2 - 017	Needle clamp screw	1	1	1
21	22T2 - 020	Slide block	1		
	027200104	Slide block		1	1
22	027200001	Needle bar vibrating lever	1	1	1
23	22T6 - 016	Screw	1	1	1
24	027200002	Needle bar vibrating connecting lever	1	1	1
25	027200003	Pin	2	2	2
26	22T1 - 011	Screw	1	1	1
27	027201000	Needle bar holder assembly	1		
	027201100	Needle bar holder assembly		1	1
28	027200004	Oil guard felt	1	1	1
29	027200005	Set plate	1	1	1



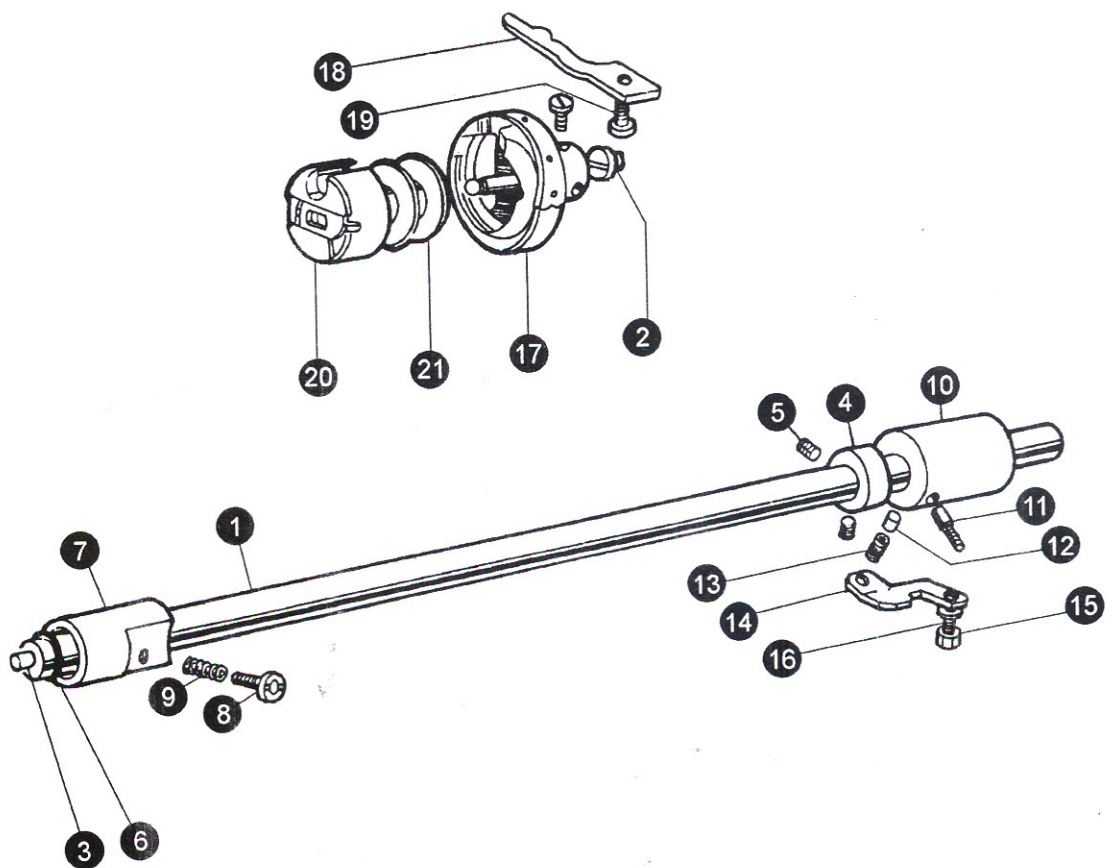
2. NEEDLE MECH ANISM

No.	Ref. No.	Description	Qt.		
			M	H	B
30	165330001	Screw	3	3	3
31	027200006	Needle bar holder guide	1	1	1
32	22T2 - 019	Screw	1	1	1
33	027200007	Bushing	1	1	1
34	22T1 - 011	Screw	1	1	1
35	027200008	Needle bar sliding block guide	1	1	1
37	22T6 - 016	Screw	1	1	1
38	027200009	Needle roller bearing	1	1	1
42	027200011	Vibrating shaft bushing (left)	1	1	1
43	22T1 - 011	Screw	1	1	1
44	027200012	Vibrating shaft	1	1	1
45	027200013	Vibrating shaft crank	1	1	1
46	22T6 - 001A1b	Screw	1	1	1
47	027200014	Pin	1	1	1
48	22T1 - 011	Screw	1	1	1
49	027200015	Collar	2	2	2
50	22T3 - 002B2	Screw	1	1	1
51	027200016	Vibrating shaft bushing (right)	1	1	1
52	027200017	Washer	1	1	1
53	GB8894.2 - 86 - 12	Vibrating shaft stop ring 12	1	1	1
54	027200018	Rubber plug (Ø21.5)	1	1	1
55	027200019	Feed link (long)	1	1	1
56	027200020	Feed crank	1	1	1
57	22T6 - 016	Screw	1	1	1
58	027200021	Eccentric shaft	1	1	1
59	22T1 - 011	Screw			



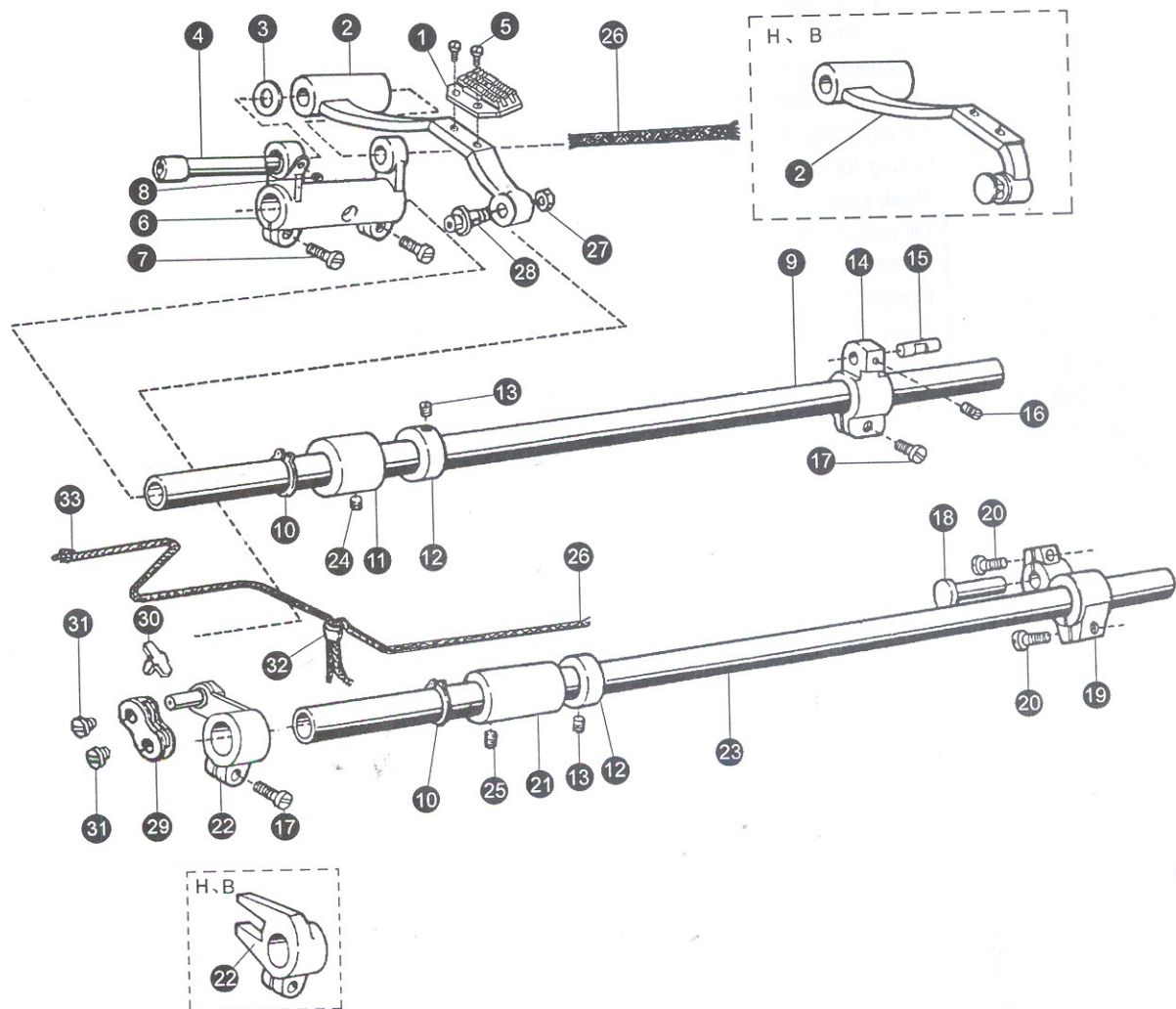
3. ARM SHAFT AND VERTICAL SHAFT MECHANISM

No.	Ref. No.	Description	Qt.		
			M	H	B
1	1533100001	Arm shaft	1	1	1
2	22T3 -001A2	Arm shaft rubber plug($\varnothing 7.4 \times 10$)	2	2	2
3	22T3 -002B1	Collar for arm shaft	1	1	1
4	22T2 -005B3	Set screw	2	2	2
5	22T2 -003	Arm shaft bushing(left)	1	1	1
6	22T3 -004	Arm shaft bushing(middle)	1	1	1
7	22T2 -002	Set screw	1	1	1
8	124T3 -003C1	Arm shaft bushing(right)	1	1	1
9	124T3 -003C2	Oil seal	1	1	1
10	153300001	Balance wheel	1	1	1
11	22T3 -007C2	Set screw	2	2	2
12	22T3 -008	Set screw	1	1	1
13	027300001	Eccentric wheel	1	1	1
14	58T5 -012F2	Eccentric wheel screw	2	2	2
15	36T3 -004	Spacer	1	1	1
16	22T3 -009D1c	Crank rod for lifting rock shaft	1	1	1
17	22T3 -010E1	Vertical shaft	1	1	1
18	22T3 -010E2a1 -2	Bever gear for arm shaft($Z = 27$)	1	1	1
19	22T3 -010E2a2 -2	Bever gear for vertical shaft(upper) ($Z = 18$)	1	1	1
20	22T2 -005B3	Set screw	8	8	8
21	22T3 -010E2b1 -2	Bever gear for hook shaft($Z = 21$)	1	1	1
22	22T3 -010E2b2 -2	Bever gear for Vertical shaft(lower) ($Z = 28$)	1	1	1
23	22T3 -011	Vertical shaft bushing(upper)	1	1	1
24	22T3 -012	Vertical shaft bushing(lower)	1	1	1
25	22T2 -002	Set screw	2	2	2
26	22T3 -009D1b	Ring	1	1	1
27	165330001	Screw	3	3	3



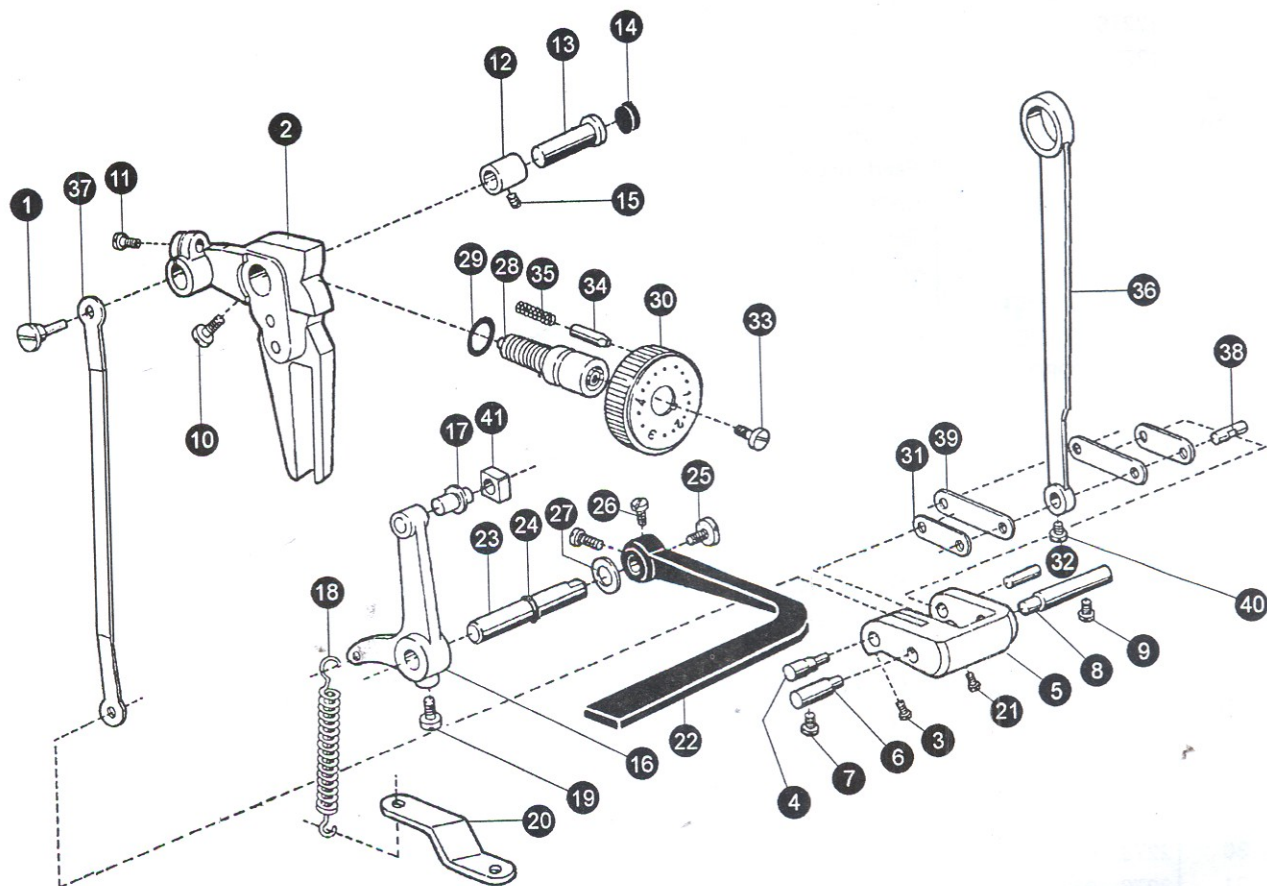
4. ROTATING HOOK MECHANISM

No.	Ref. No.	Description	Qt.		
			M	H	B
1	36T4 -008D1	Hook shaft	1	1	
	120400001	Hook shaft			1
2	22T4 -001A1a1	Filter screw	1	1	1
3	22T4 -001A1a2	Filter	1	1	1
4	22T4 -002B1	Collaer for hook shaft	1	1	1
5	22T2 -009	Set screw	2	2	2
6	22T4 -003G	Oil seal for rotating	1	1	1
7	22T4 -004	Hook shaft bushing(left)	1	1	1
8	22T4 -005	Oil adjusting screw	1	1	1
9	22T4 -006	Spring for oil adjusting	1	1	1
10	36T4 -014F1	Hook shaft bushing (right)	1	1	1
11	22T4 -007C2	Oil pipe for hook shaft bushing	1	1	1
12	36T4 -015	Plunger	1	1	1
13	36T4 -016	Plunger spring	1	1	
14	22T4 -001A1	Guide plate			1
	78400006	Guide plate			
15	22T8 -009	Screw	1	1	1
16	GB93 -87 -6	Spring washer 6	1	1	1
17	KSH12 -SD	Rotating hook		1	
	048400101	Rotating hook			1
	027403000	Rotating hook			
18	22T4 -013	Rotating hook positioner	1		
	048400002	Rotating hook positioner		1	
	78T4 -003	Rotating hook positioner			1
19	22T4 -015	Screw	1	1	1
20	SC82 -J	Bobbin case	1	1	
	027402100	Bobbin case			1
21	36T4 -006	Bobbin	1	1	
	078400005	Bobbin			1



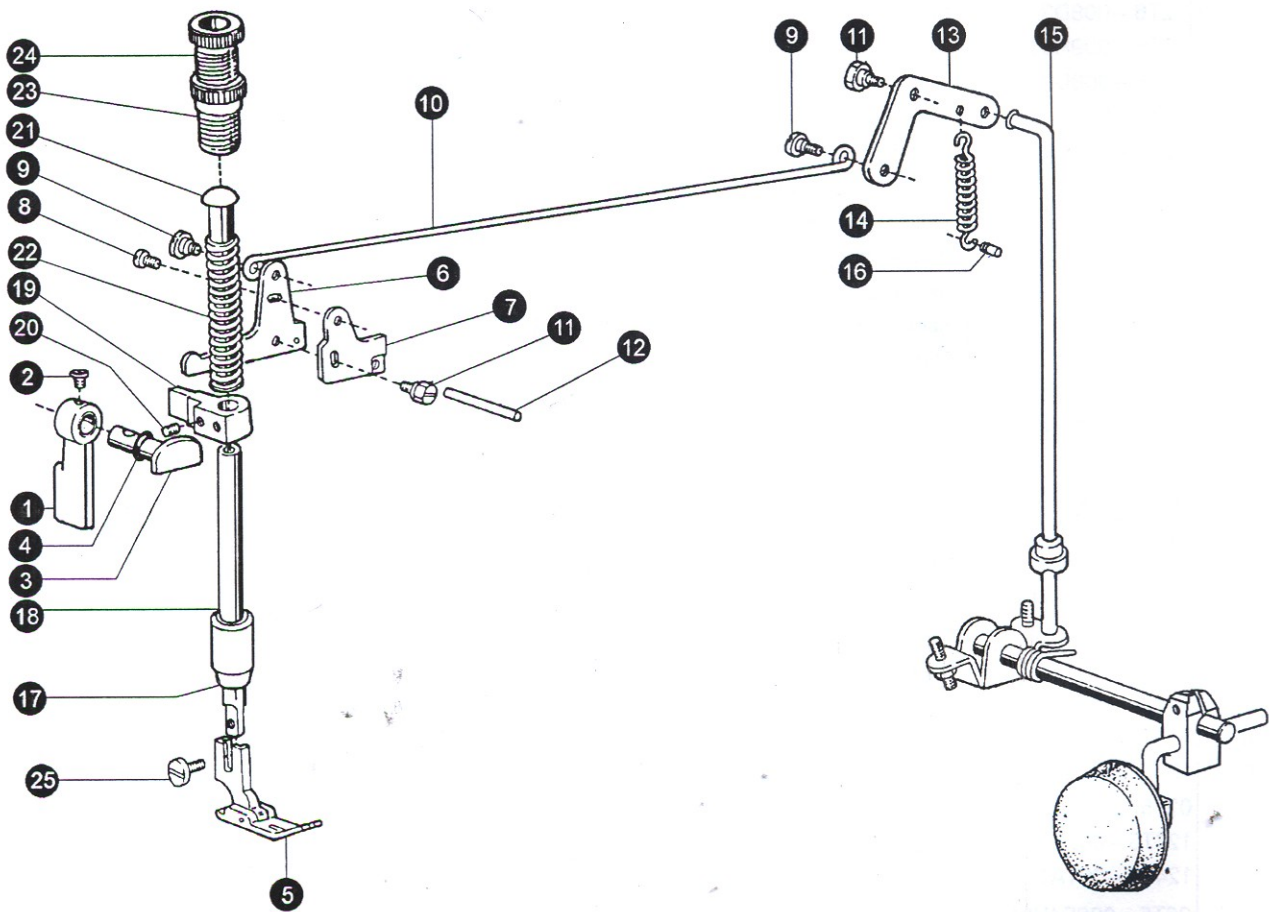
5. FEEDING AND FEED LIFTING MECHANISM

No.	Ref. No.	Description	Qt.		
			M	H	B
1	027600001	Feed dog	1		
	027600101	Feed dog		1	1
2	027601000	Feed bar	1		
	36T4 -001A1a	Feed bar		1	1
3	22T6 -001A6	Washer	1	1	1
4	36T4 -001A2	Feed bracket shaft	1	1	1
5	22T6 -001A4	Screw	2	2	2
6	22T6 -001A1a	Feed rock bracket arm	1	1	1
7	22T6 -001A1b	Screw	2	2	2
8	22T2 -019	Screw	1	1	1
9	124T6 -002	Feed rock shaft	1	1	1
10	GB894.1 -86	C - type stop ring (15)	2	2	2
11	22T6 -004	Feed rock shaft bushing	1	1	1
12	22T6 -005B1	Collar	2	2	2
13	22T6 -005B2	Set screw	4	4	4
14	36T4 -003	Feed rock shaft crank(right)	1	1	1
15	36T4 -004H01	Feed link stod	1	1	1
16	36T5 -008E5	Set screw	1	1	1
17	22T6 -008D3	Screw	2	2	2
18	22T6 -007	Hinge	1	1	1
19	48T6 -006	Feed lifting rock shaft crank(right)	1	1	1
20	22T6 -016	Screw	2	2	2
21	22T6 -012	Bushing for feed lifting rock shaft	1	1	1
22	22T6 -008D	Feed lifting rock shaft crank assembly	1		
	36T4 -018H1D1	Feed lifting shaft crank		1	1
23	124T6 -003	Feed lifting rock shaft	1	1	1
24	22T2 -009	Set screw	1	1	1
25	22T2 -002	Set screw	1	1	1
26	22T6 -009F3	Wick	2	2	2
27	22T6 -001A8	Nut	1		
28	22T6 -001A9	Hinge	1		
29	22T6 -009F1	Feed stand link	1		
30	22T6 -009F2	Oil wick clamp	1		
31	22T6 -010	Screw	1		
32	22T6 -015	Oil wick clamp	1	1	1
33	22T6 -001A7	Oil wick	1	1	1



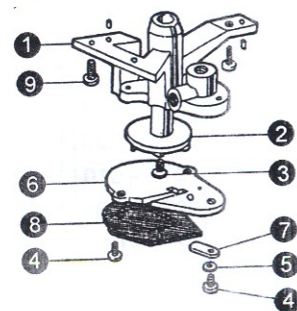
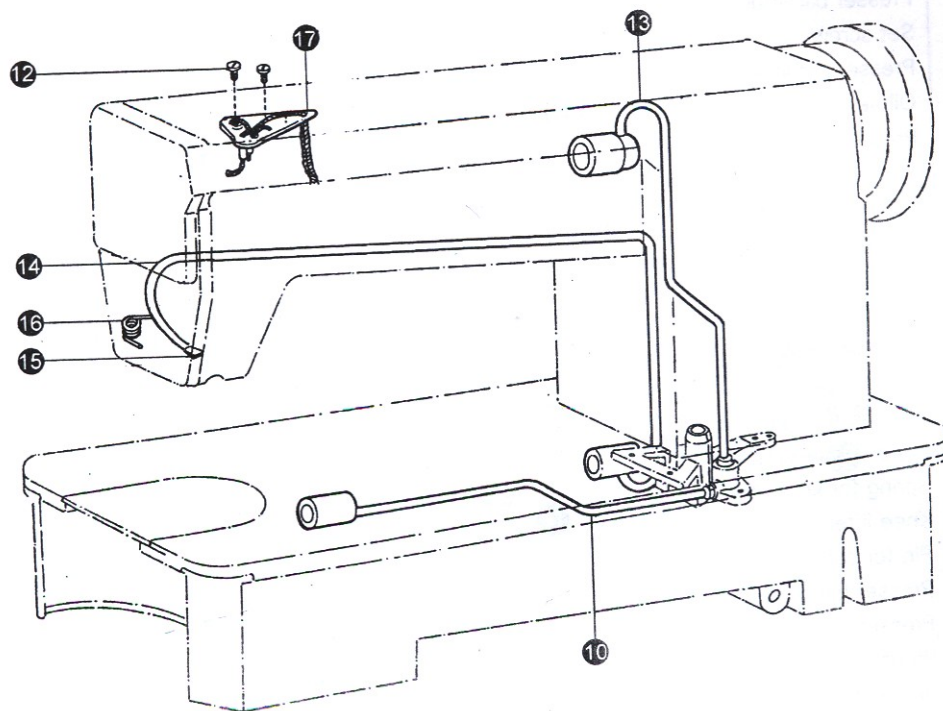
6. STITCH LENGTH REGULATING MECHANISM

No.	Ref. No.	Description	Qt.		
			M	H	B
1	36T5 - 001	Connecting stud	1	1	1
2	57T5 - 001	Feed regulator	1	1	1
3	36T5 - 008E8	Screw	1	1	1
4	36T5 - 008E9	Lever link eccentric shaft	1	1	1
5	36T5 - 008E10	Lever regulator	1	1	1
6	36T5 - 009H02	Pin (left)	1	1	1
7	22T6 - 008D3	Screw	1	1	1
8	36T5 - 009H01	Pin (right)	1	1	1
9	22T6 - 008D3	Screw	1	1	1
10	22T5 - 010D4	Screw of feed regulator	1	1	1
11	22T2 - 019	Screw	1	1	1
12	22T5 - 003	Feed regulator bushing	1	1	1
13	22T5 - 004	Feed regulator shaft	1	1	1
14	36T5 - 003	Rubber plug (Ø20)	1	1	1
15	22T2 - 002	Set screw	1	1	1
16	22T5 - 012E1	Back tacking crank	1	1	1
17	22T5 - 012E1a1	Slide block pin	1	1	1
18	57T5 - 004B1	Lever spring	1	1	1
19	22T5 - 013	Set screw	1	1	1
20	57T5 - 005	Bracket for spring	1	1	1
21	36T5 - 008E7	Screw	1	1	1
22	124500004	Backtacking lever	1	1	1
23	36T5 - 006C1a1	Backtacking lever shaft	1	1	1
24	GB3452. 1 - 92	O - ring (6.3 x 1.8G)	1	1	1
25	22T5 - 010D3	Screw	1	1	1
26	22T5 - 010D4	Screw	2	2	2
27	22T5 - 011	O - ring	1	1	1
28	124T5 - 001A2	Feed regulator screw	1	1	1
29	124T5 - 001A3	O - ring for feed regulating screw	1	1	1
30	027500001	Knob	1		
	124T5 - 002B1	Knob		1	
	124T5 - 001A1	Knob			1
31	36T5 - 008E4H01	Feed rock link	1	1	1
32	36T5 - 008E6	Pin	1	1	1
33	22T5 - 006C3	Screw	1	1	1
34	22T5 - 008	Stopper pin	1	1	1
35	22T5 - 009	Spring for stopper pin	1	1	1
36	36T5 - 008E2	Lever feed connecting rod	1	1	1
37	36T5 - 008E3	Feed regulator link	1	1	1
38	36T4 - 004H02	Sink shaft	1	1	1
39	36T5 - 008E4H02	Feed rock arm link	2	2	2
40	36T5 - 008E5	Screw	1	1	1
41	22T5 - 012E1a2	Crank slide block	1	1	1



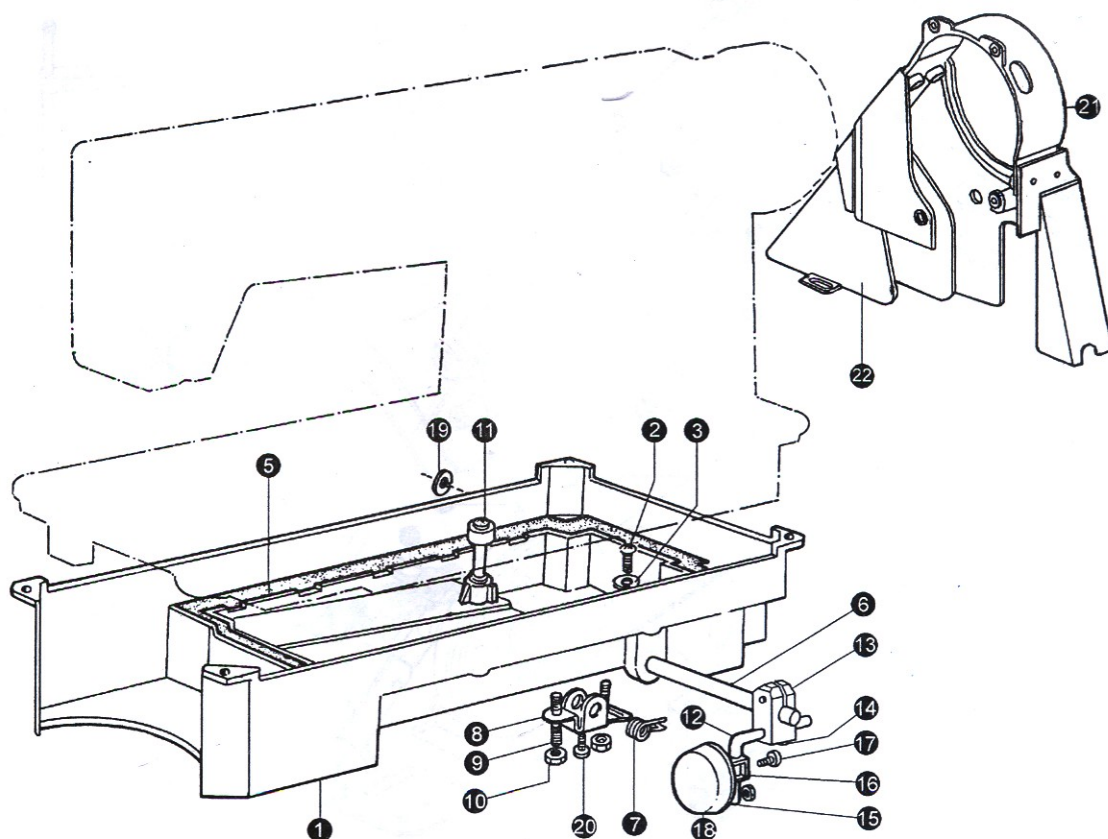
7. PRESSER FOOT MECHANISM

No.	Ref. No.	Description	Qt.		
			M	H	B
1	22T7 -001A1	Presser bar lifter	1	1	1
2	22T1 -006	Set screw	1	1	1
3	22T7 -002	Presser bar lifter	1	1	1
4	GB3452. 1 -92	Oil seal for presser bar(4.5 ×1.8G)	1	1	1
5	027701000	Presser foot complete	1		
	027701100	Presser foot complete		1	1
6	22T7 -004B1a	Knee lifter lever(left)	1	1	1
7	22T7 -004B1b	Tension releasing cam	1	1	1
8	22T7 -004B1c	Screw	1	1	1
9	22T7 -004B2	Hinge screw	2	2	2
10	22T7 -004B3	Knee lifter rod	1	1	1
11	22T7 -005	Bolt for tension releasing cam	1	1	1
12	22T7 -006	Tension releasing pin	1	1	1
13	22T7 -007C1	Knee lifte lever(right)	1	1	1
14	22T7 -007C2	Spring for knee lifter lever(right)	1	1	1
15	22T7 -007C3	Knee lifter connecting rod	1	1	1
16	22T7 -008	Pin for spring	1	1	1
17	22T7 -009	Presser bar bushing	1	1	1
18	22T7 -010	Presser bar	1	1	1
19	027700001	Presser bar lifting bracket	1	1	1
20	22T1 -013	Set screw	1	1	1
21	22T7 -012	Presser bar guide	1	1	1
22	22T7 -013	Presser spring	1		
	048700002	Presser spring		1	1
23	22T7 -014E1	Presser regulating thumb screw	1	1	1
24	22T7 -014E2	Presser regulating thumb nut	1	1	1
25	22T7 -015	Set screw	1	1	1



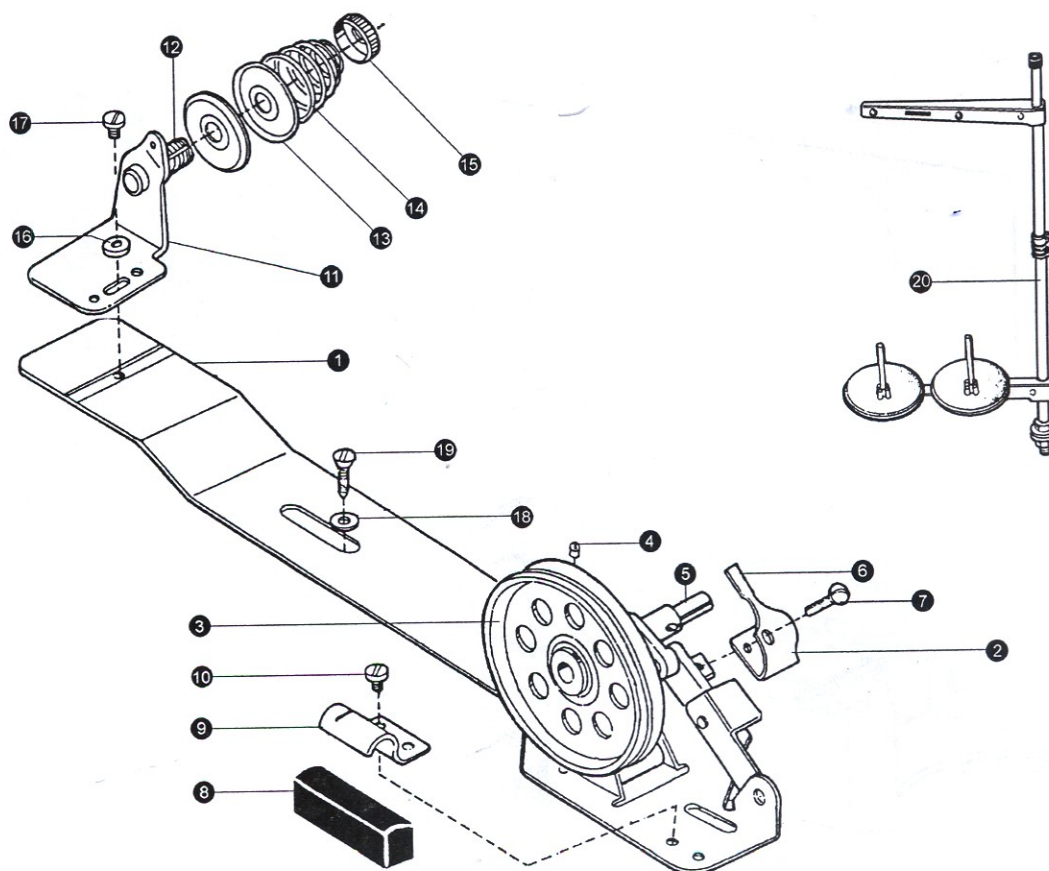
8. LUBRICATION MECHANISM

No.	Ref. No.	Description	Qt.		
			M	H	B
1	22T8 -001	Oil pump body	1	1	1
2	22T8 -002	Oil pump impeller	1	1	1
3	22T8 -003	Screw	1	1	1
4	22T8 -004	Screw	3	3	3
5	GB93 -87	Spring washer 3	1	1	
6	22T8 -006	Oil pump filtering plate	1		1
	78T8 -001	Oil pump filtering plate			
7	22T8 -007	Oil adjusting plate	1	1	1
8	22T8 -008A	Oil pump screen complete	1	1	1
9	22T8 -009	Screw	3	3	3
10	22T8 -010B	Oil pipe for hook shaft	1	1	1
12	22T7 -012	Screw	2	2	2
13	22T8 -013D	Oil pipe for arm shaft			1
	78T8 -002A	Oil pipe for arm shaft			
14	027800001	Oil returning pipe	1	1	1
15	027800002	Felt pouch for return filter	1	1	1
16	027800003	Spring for oil felt	1	1	1
17	027810000	Oil braid filtering plate	1	1	1



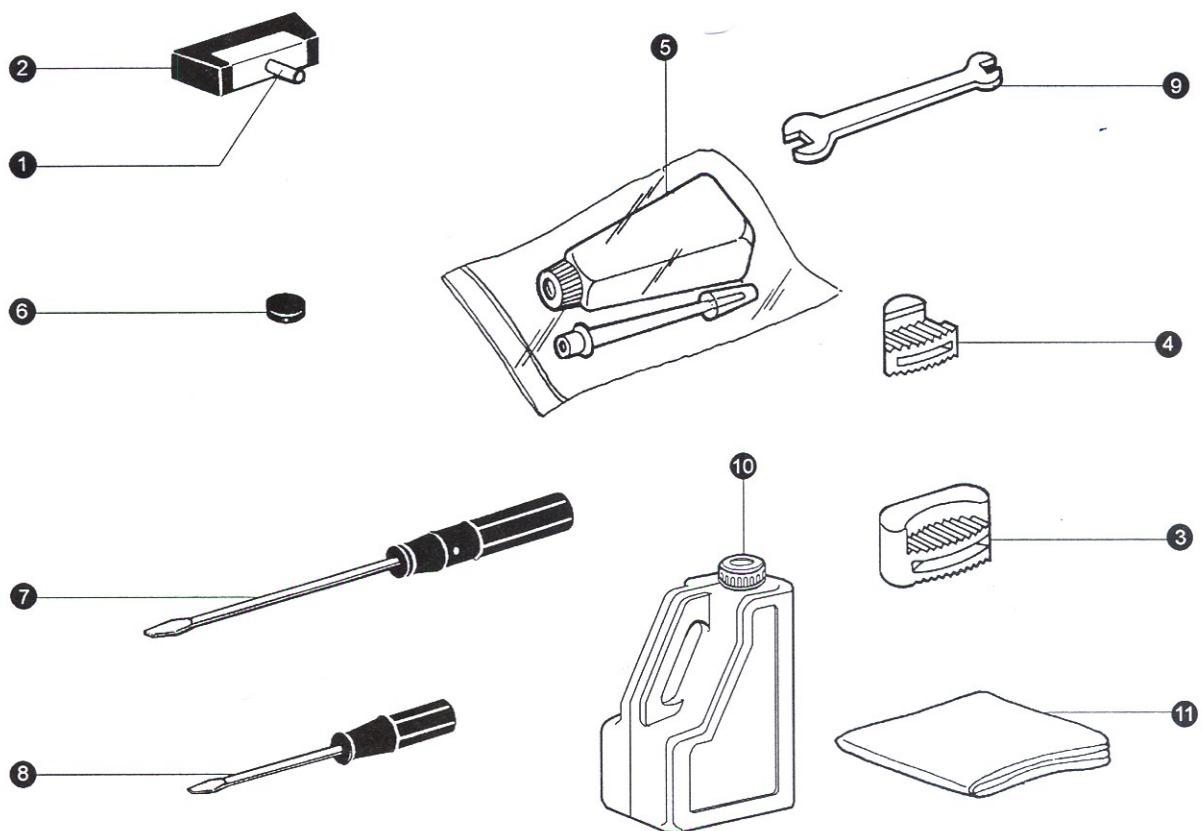
9. OIL RESERVOIR AND OTHER ACCESSORIES

No.	Ref. No.	Description	Qt.		
			M	H	B
1	36T11 -001A1	Oil reservoir	1	1	1
2	22T9 -001A2	Oil drain screw	1	1	1
3	22T9 -001A3	Washer	1	1	1
5	22T9 -001A5	Gasket for oil reservoir	1	1	1
6	22T9 -001A6	Hinge pin for knee lifter lever	1	1	1
7	22T9 -001A7	Back spring for knee lifter	1	1	1
8	22T9 -001A8	Knee lifter stop bracket	1	1	1
9	22T9 -001A9	Adjusting screw	2	2	2
10	22T9 -001A10	Lock nut	2	2	2
11	22T9 -003B1	Knee lifter lifting rod	1	1	1
12	22T9 -003B2	Knee lifter bell crank	1	1	1
13	22T9 -003B3	Knee lifter bell crank joint	1	1	1
14	GB5781 -86	Set screw M6 × 12	1	1	1
	GB5781 -86	Set screw M6 × 20	1	1	1
15	22T9 -003B5	Knee lifter plate	1	1	1
16	22T9 -003B6	Bracket for knee lifter plate	1	1	1
17	22T9 -003B7	Set screw	1	1	1
18	22T9 -003B8	Pat for knee lifter plate	1	1	1
19	GB896 -86	C - type stop ring 9	1	1	1
20	22T9 -036	Screw	1	1	1
21	124T9 -003B	Belt cover	1	1	1
22	124T9 -004C	Belt cover(S)	1	1	1



10. BOBBIN WINDER, SPOOL STAND MECHANISM

No.	Ref. No.	Description	Qt.		
			M	H	B
1	6F0 - 001A	Bobbin winder base	1	1	1
2	6F0 - 001A6a	Bobbin winder stop latclever set	1	1	1
3	6F0 - 002	Bobbin winder pulley	1	1	1
4	01/B112	Screw	1	1	1
5	6F0 - 003	Bobbin winder spindle	1	1	1
6	6F0 - 004 - 1	Bobbin winder stop latch	1	1	
	6F0 - 004 - 2	Bobbin winder stop latch			1
7	6F0 - 005	Adjusting screw	1	1	1
8	6F0 - 006	Stopper block	1	1	1
9	6F0 - 007	Stopper block clamp	1	1	1
10	6F0 - 008	Set screw	1	1	1
11	6F0 - 009B1b1	Bobbin winder tension bracket	1	1	1
12	17T7 - 017	Bobbin winder tension stud	1	1	1
13	22T1 - 012F5	Bobbin winder tension discs	2	2	2
14	22T1 - 012F3	Bobbin winder tension spring	1	1	1
15	J2. 2. 7	Tension stud nut	1	1	1
16	BQ10021	Screw	1	1	1
17	22T2 - 004	Tension bracket screw	1	1	1
18	GB848 - 85	Washer 6	2	2	2
19	GB99 - 86	Wood screw	2	2	2
20	GXJ - 2	Spool stand	1	1	1



11. ACCESSORIES

No.	Ref. No.	Description	Qt.		
			M	H	B
1	22T9 -007F1	Hinge of machine head	2	2	2
2	22T9 -007F2	Hinge socket of machine head	2	2	2
3	22T9 -009	Rubber cap (B)	2	2	2
4	22T9 -010	Rubber cap (S)	2	2	2
5	22T9 -011	Oil pot	1	1	1
6	22T9 -012	Magnet	1	1	1
7	22T9 -013	Screw driver (B)	1	1	1
8	22T9 -015	Screw driver (S)	1	1	1
9	22T9 -016	Double end wrench	1	1	1
10	22T9 -017	Oil can	1	1	1
11	22T9 -018	Vinyl cover	1	1	1