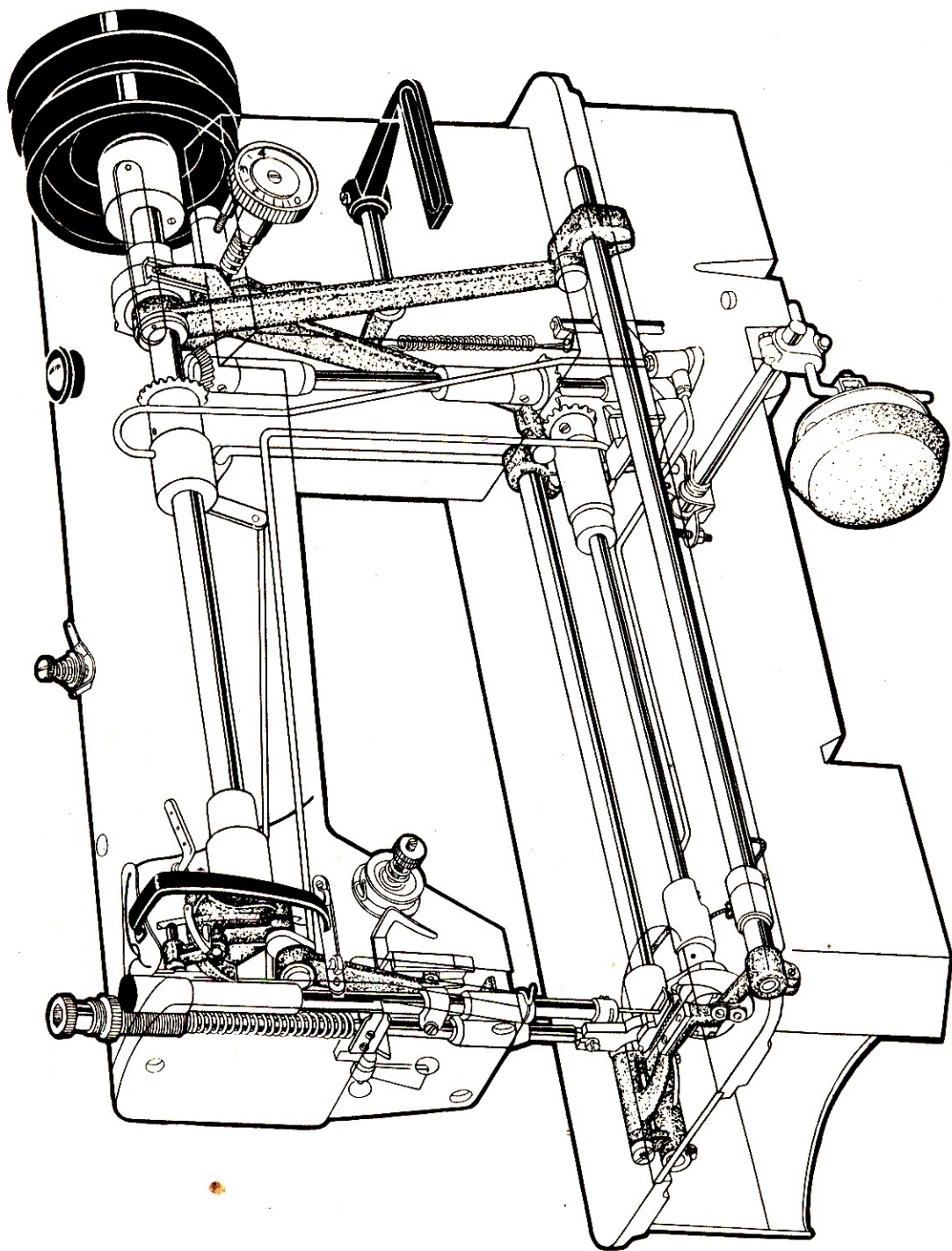
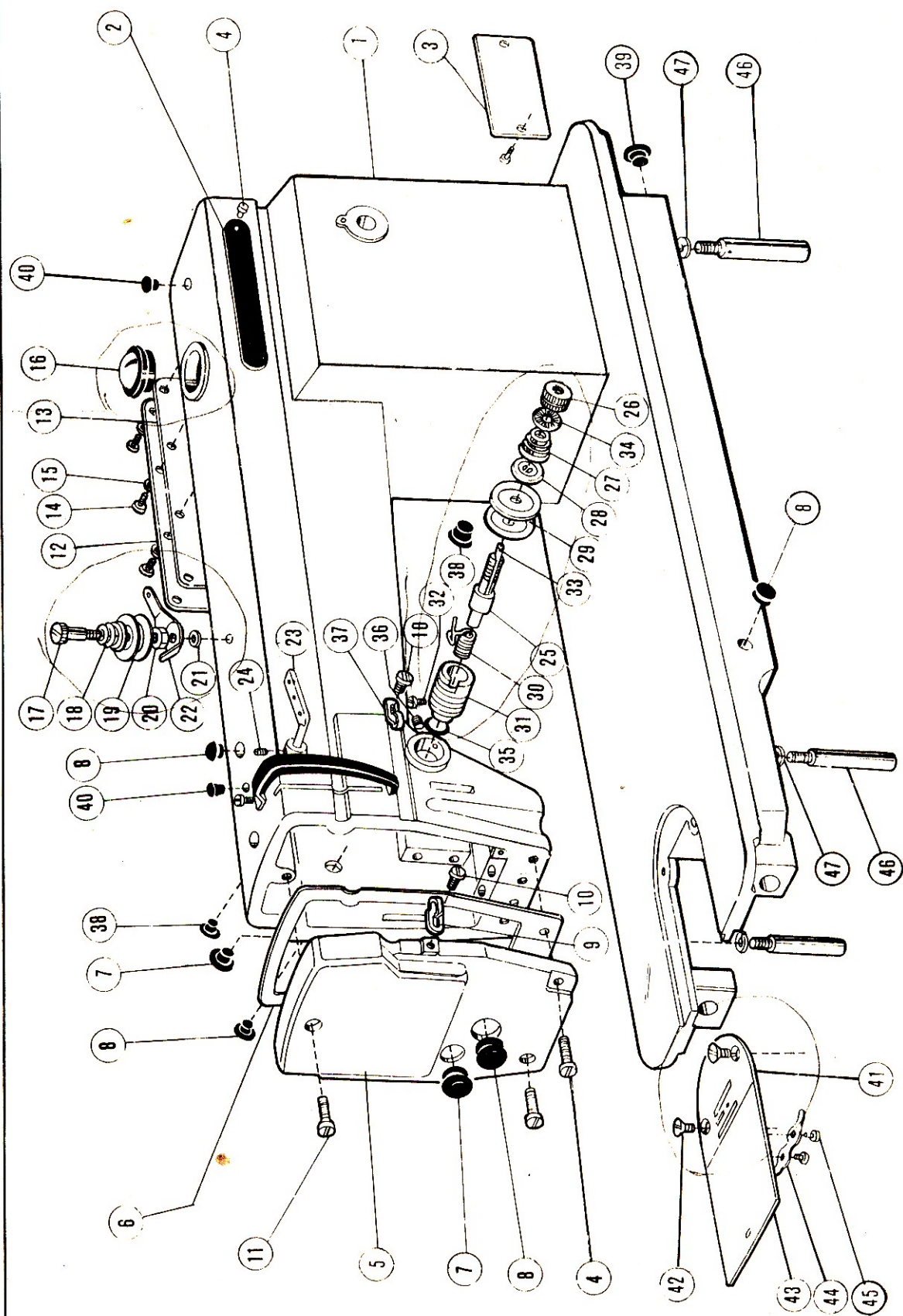


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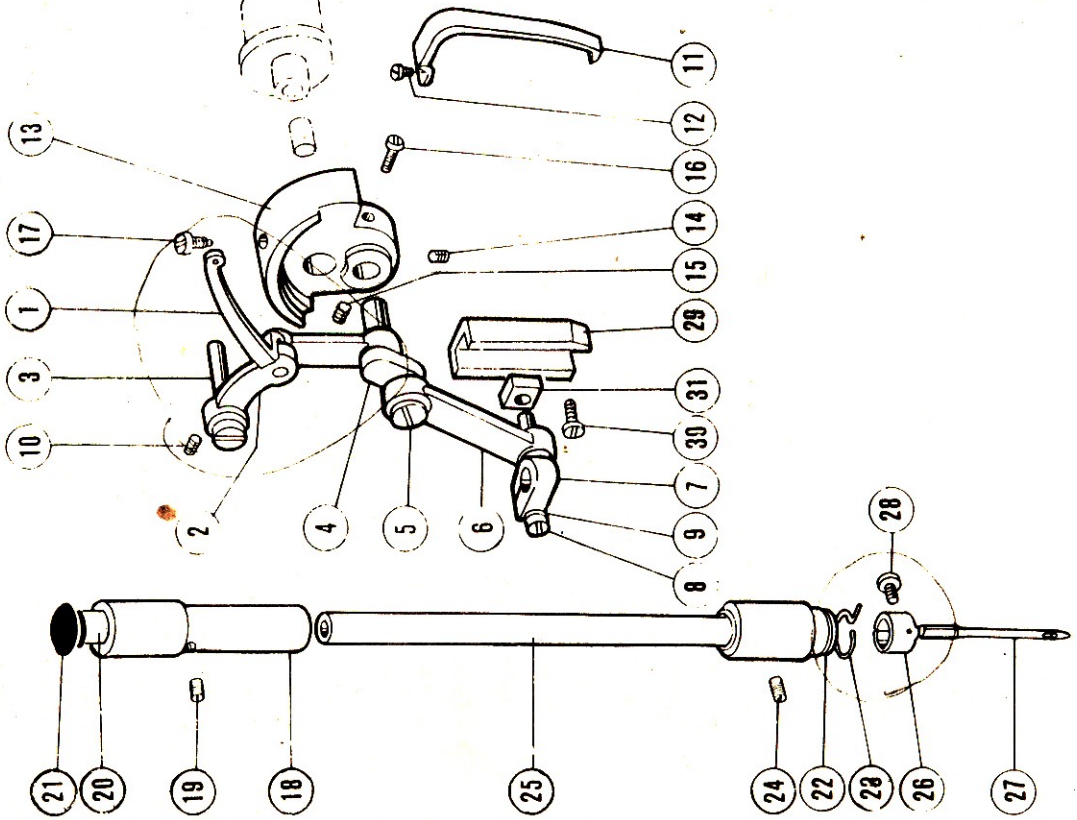
MÁQUINA RETA





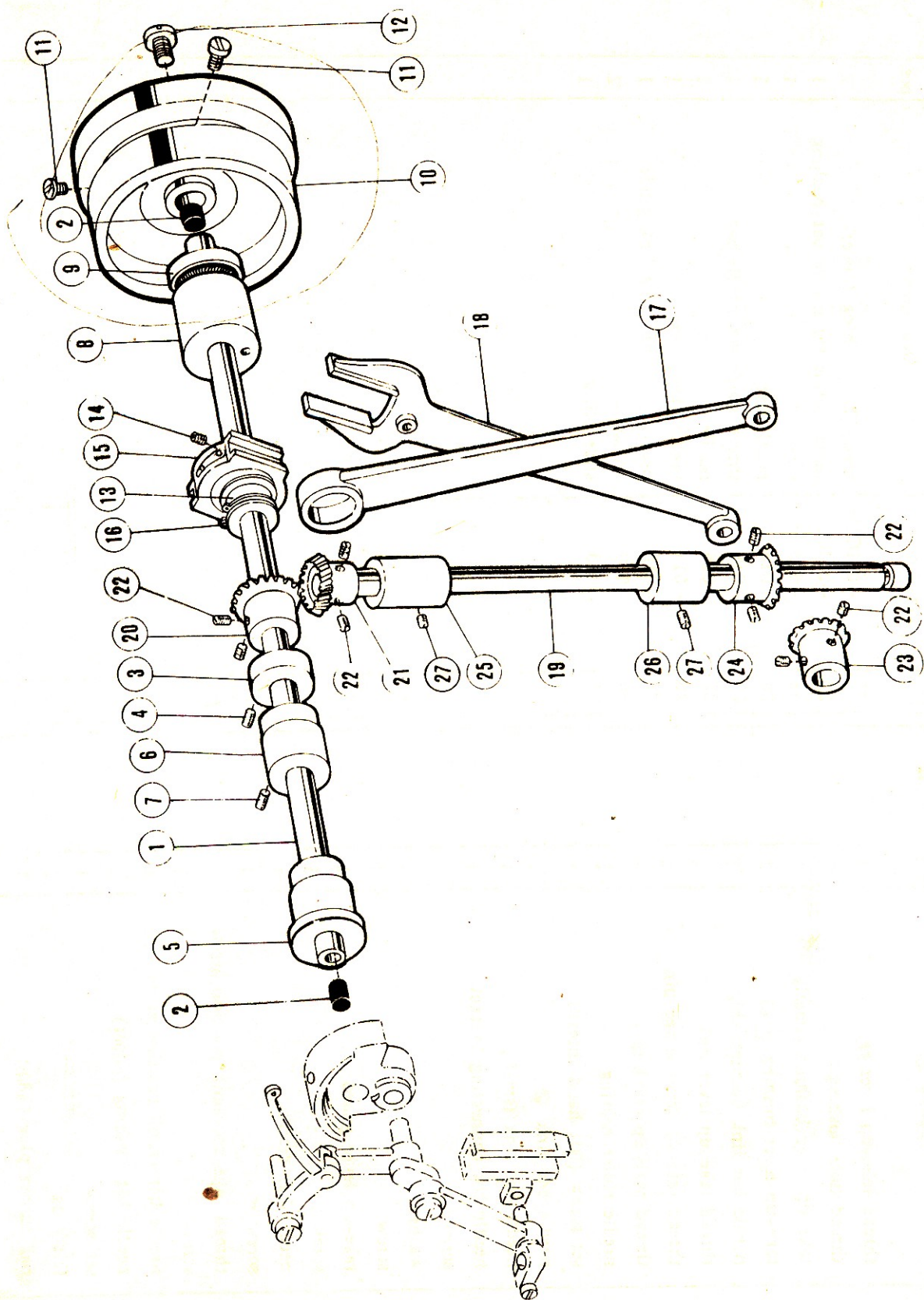
1. Arm bed and its accessories

No.	Ref. No.	Description	pcs.	Note	No.	Ref. No.	Description	pcs.	Note
1	22T1-001A1-2	arm ●	1		20	-009E4	spacer for pre-tension	1	
	-001A2-2	bed	1		21		stop ring	1	
	-001A3	arm screw (long)	2	M10 × 60	22	-009E5	thread guide for pre-tension	1	
	-001A4	arm screw (short)	2	M12 × 30	23	-010	three hole thread guide	1	
	-001A5	arm dowel pin	2		24	-011	set screw	1	
2	-002B1	name plate	1		25	-012F1	thread tension stud	1	
3	-002B2	trade mark plate	1		26	-012F2	thumb nut for thread tension regulator	1	
4	-002B3	trade mark rivet	4		27	-012F3	thread tension spring	1	
5	-003C1	face plate	1		28	-12F4	thread tension releasing disc	1	
6	-003C2	gasket for face plate	1		29	-012F5	thread tension disc	2	
7	-003C3	rubber plug (φ 19)	1		30	-012F6	thread take-up spring	1	
	-003C3	rubber plug for checking oil returning φ 19	1		31	-012F7	thread tension regulating bushing	1	
8	-003C4	rubber plug (φ 11.8)	1		32	-012F8	set screw	1	
	-003C4	rubber plug (φ 11.8)	1		33	-012F9	thread tension releasing pin	1	
	-003C4	rubber plug (φ 11.8)	1		34	-012F10	thumb nut revolution stopper	1	
	-003C4	rubber plug (φ 11.8)	1		35	-012F11	rubber ring	1	
9	-003C5	thread guide on face plate	1		36	-013	set screw	1	
10	-003C6	thread guide screw	1		37	-014	thread guide for arm center	1	
	-003C6	thread guide screw	1		38	-015	rubber plug (φ 8.8)	2	
11	-004	face plate screw	3		39	-016	rubber plug (φ 27)	1	
12	-005D1	arm side cover	1		40	-017	red rubber plug (φ 5.7)	2	
13	-005D2	gasket for arm side cover	1		41	-018	needle plate (B 1.6)	1	
14	-006	arm side cover screw	8		42	-020	needle plate screw	2	
15	-007	washer	8		43	-021G1	slide plate	1	
16	-008	oil check window	1		44	-021G2	spring for slide plate	1	
17	-009E1	screw type tension stud	1		45	-021G3	screw	2	
18	-009E2	spring for pre-tension	1		46	-022	leg	3	
19	-009E3	discs for pre-tension	2		47	-023	spring washer	3	



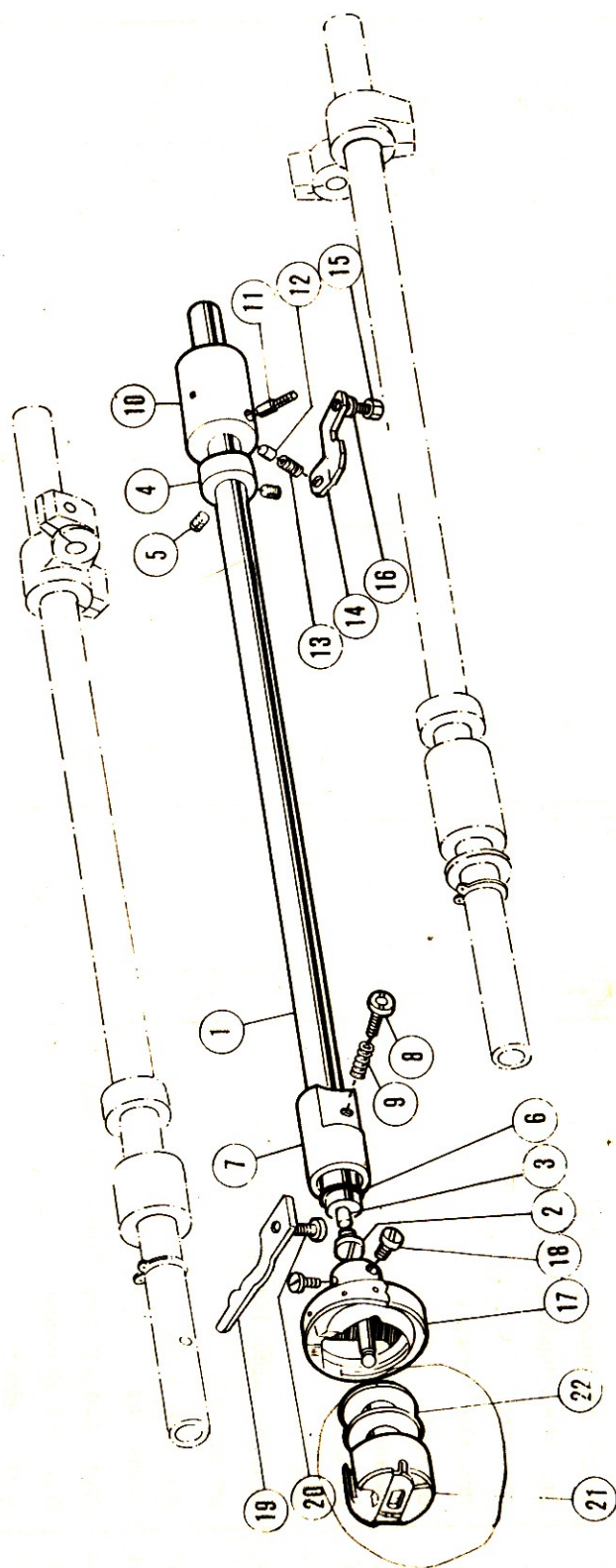
2. Needle bar and thread take-up mechanism

No.	Ref. No.	Description	pcs.	Note	No.	Ref. No.	Description	pcs.	Note
1	22T2 —001A1a —001A1a3 —001A1a4 —001A1a5 —001A1a5	thread take-up lever ● thread hole bushing take-up lever bushing (small) take-up lever bushing (big) needle bar link bushing (big)	1 1 1 1 1		22	—012C1	needle bar bushing (lower)	1	
2	—001A2 —001A3 —001A4 —001A5 —001A6	thread take-up lever link thread take-up lever hinge pin thread take-up crank ● needle roller bearing set screw (left hand thread)	1 1 1 1 1		23	—012C2	thread guide for needle bar bushing	1	
3	—001A7b1 —001A7b2 —001A8 —001A9 —001A10	needle bar link ● needle bar link (small) needle bar connecting bracket screw washer	1 1 1 1 1		24	—013	screw	1	
4	—002 —003 —004 —005B1 —005B2 —005B3	needle bar link ● needle bar connecting bracket screw take-up lever guard screw needle bar crank screw —	1 1 1 1 1 1		25	—014	needle bar	1	
5	—006 —007 —008 —009 —010 —011	thread take-up crank position screw screw needle bar crank position screw needle bar bushing (upper) set screw felt plug red rubber plug (φ8.8)	1 1 1 1 1 1		26	—015	thread guide for needle bar	1	
6					27	—016	needle	1	
7					28	—017	needle clamp screw	1	
8					29	—018	needle bar connecting link guide	1	
9					30	—019	set screw	2	
10					31	—020	slide block	1	



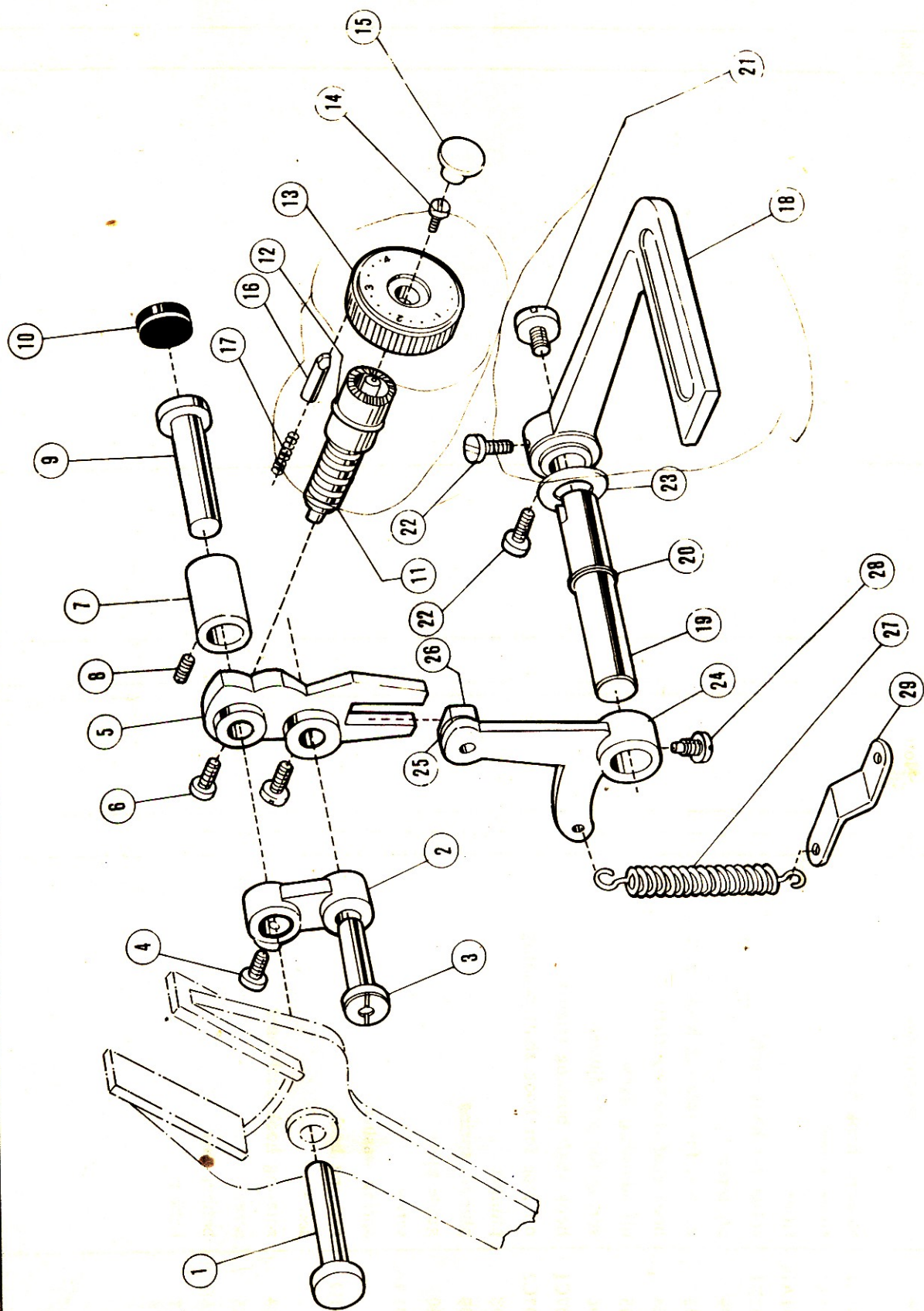
3. Arm shaft and vertical shaft mechanism

No.	Ref. No.	Description	pcs.	Note	No.	Ref. No.	Description	pcs.	Note
1	22T3 -001A1	arm shaft	1						
2	-001A2	rubber plug for arm shaft ($\phi 7.4 \times 10$)	2						
3	-002B1	collar for arm shaft	1						
4	-002B2	set screw	2						
5	-003	arm shaft bushing (left)	1						
6	-004	arm shaft bushing (middle)	1						
7	22T2 -002	set screw	1						
8	22T3 -005	arm shaft (right)	1						
9	-006	oil seal	1						
10	-007C1	balance wheel	1						
11	-007C2	set screw	2						
12	-008	screw	1						
13	-009Da ₁	feed and feed lifting eccentric	1						
14	22T1 -013	set screw	1						
15	22T3 -009D1a ₂	eccentric sleeve	2						
16	-009D1b	crank rod stopper	1						
17	-009D1c	crank rod for feed lifting rock shaft	1						
18	-009D2	feed forked connection	1						
19	-010E1	vertical shaft	1						
20	-010E2a ₁	bevel gear for arm shaft	1						
21	-010E2a ₂	bevel gear for vertical shaft (upper)	1						
22	22T2 -005B3	set screw	8						
23	22T3 -010E2b ₁	bevel gear for hook shaft	1						
24	-010E2b ₂	bevel gear for vertical shaft (lower)	1						
25	-011	vertical shaft bushing (upper)	1						
26	-011	vertical shaft bushing (lower)	1						
27	22T2 -002	set screw	2						



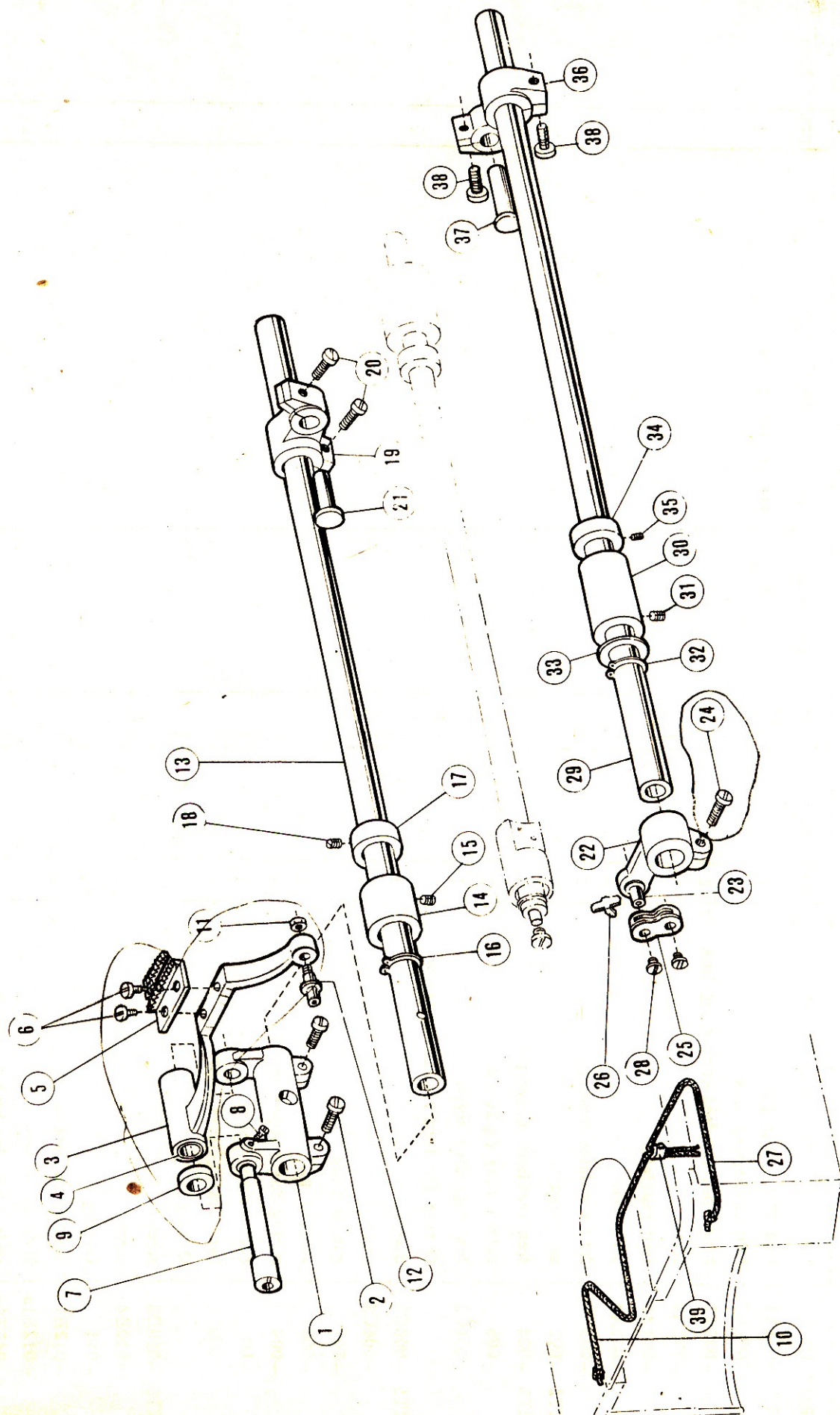
4. Rotating hook mechanism

No.	Ref. No.	Description	pcs.	Note	No.	Ref. No.	Description	pcs.	Note
1	22T4 -001A1	rotating hook shaft	1						
2	-001A1a ₁	filter screw	1						
3	-001A1a ₂	filter	1						
4	-002B1	collar for hook shaft	1						
5	22T2 -009	set screw	2						
6	22T4 -003	oil seal for rotating hook shaft	1						
7	-004	hook shaft bushing (left)	1						
8	-005	oil adjusting screw	1						
9	-006	spring for oil adjuster	1						
10	-007C1	hook shaft bushing (right)	1						
11	-007C2	oil pipe for hook shaft bushing	1						
12	-008	plunger	1						
13	-009	plunger spring	1						
14	-010	guide plate	1						
15	22T5 -001A4	screw	1						
16		spring washer	1						
17	22T4 -011D	rotating hook	1						
18		screw	2						
19	22T4 -013	rotating hook positioner	1						
20	-015	screw	1						
21	-016F	bobbin case	1						
22	-017	bobbin	1						



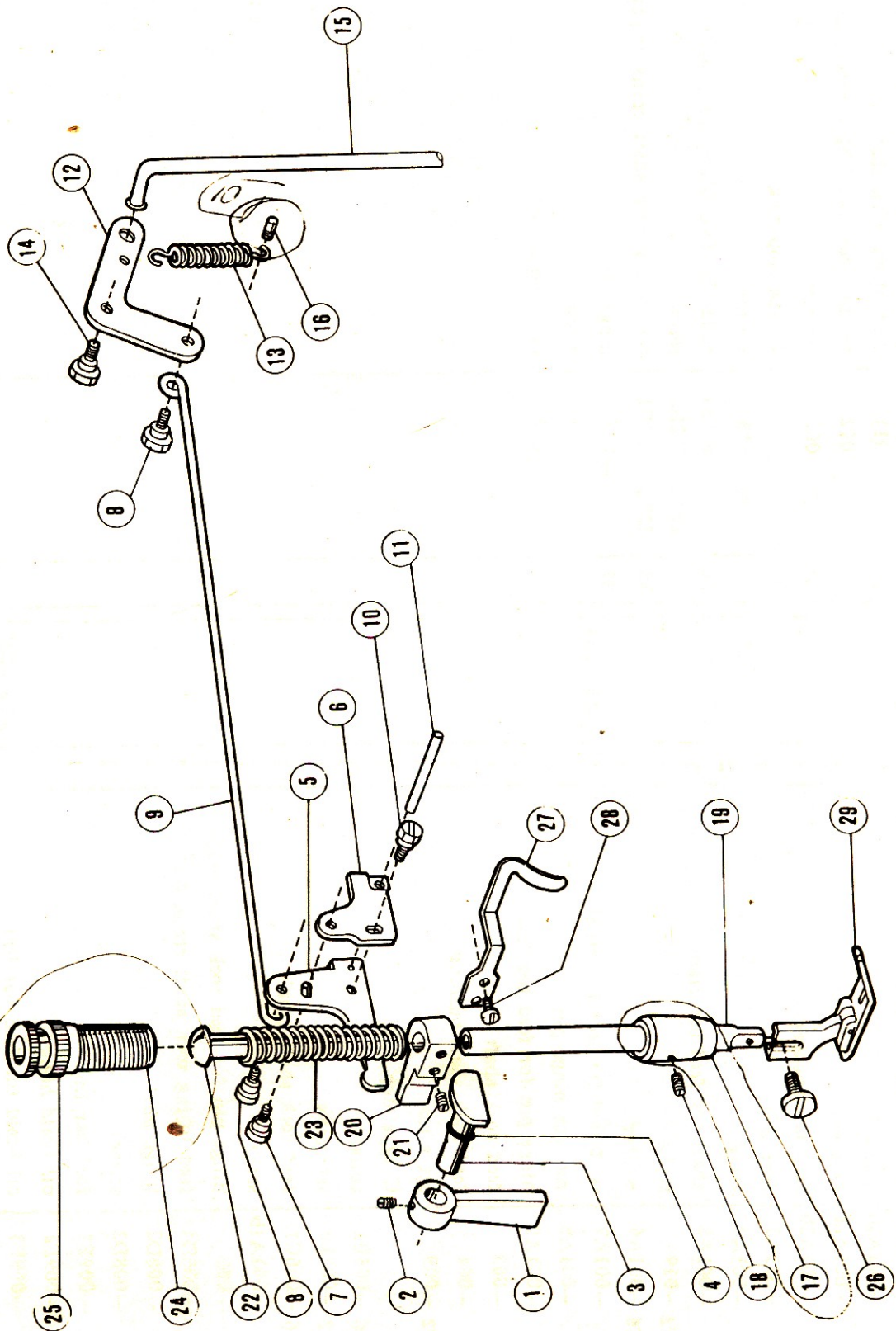
5. Stitch length regulating mechanism

No.	Ref. No.	Description	pcs.	Note	No.	Ref. No.	Description	pcs.	Note
1	22T5 -001A1	feed fork hinge pin	1		29	-014	bracket for spring	1	
2	-001A2	feed connecting link	1						
3	-001A3	hinge pin for feed connecting link	1						
4	-001A4	screw	1						
5	-001B1	feed regulator	1						
6	-001A4	set screw	2						
7	-003	feed regulator bushing	1						
8	22T2 -002	set screw	1						
9	22T5 -004	feed regulator hinge pin	1						
10	-005	rubber plug ($\phi 20 \times 4$)	1						
11	-006C1	feed regulator screw	1						
12		O-ring for feed regulating screw	1	14 $\times$ 2.4					
13	22T5 -006C2	dial	1						
14	-006C3	screw	1						
15	-007	rubber plug	1						
16	-008	stopper pin	1						
17	-009	spring for stopper pin	1						
18	-D1	backtacking lever	1						
19	-D2a	backtacking lever shaft	1						
20		O-ring	1	9 $\times$ 1.9					
21	22T5 -010D3	screw	1						
22	-010D4	screw	1						
23	-011	O-ring	2						
24	-012E1	backtacking crank	1						
25	- -012E1a ₁	slide block pin	1						
26	-012E1a ₂	slide block for backtacking crank	1						
27	-012E2	spring for backtacking crank	1						
28	-013	screw	1						



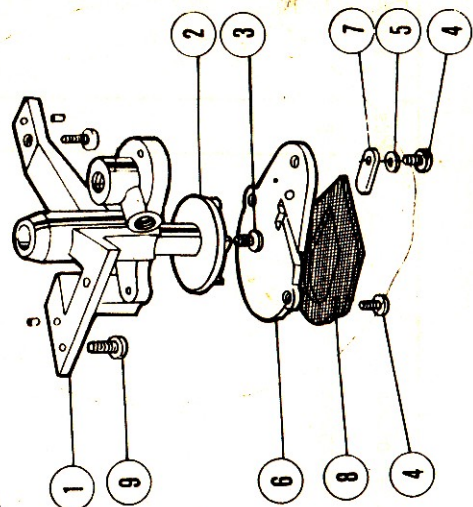
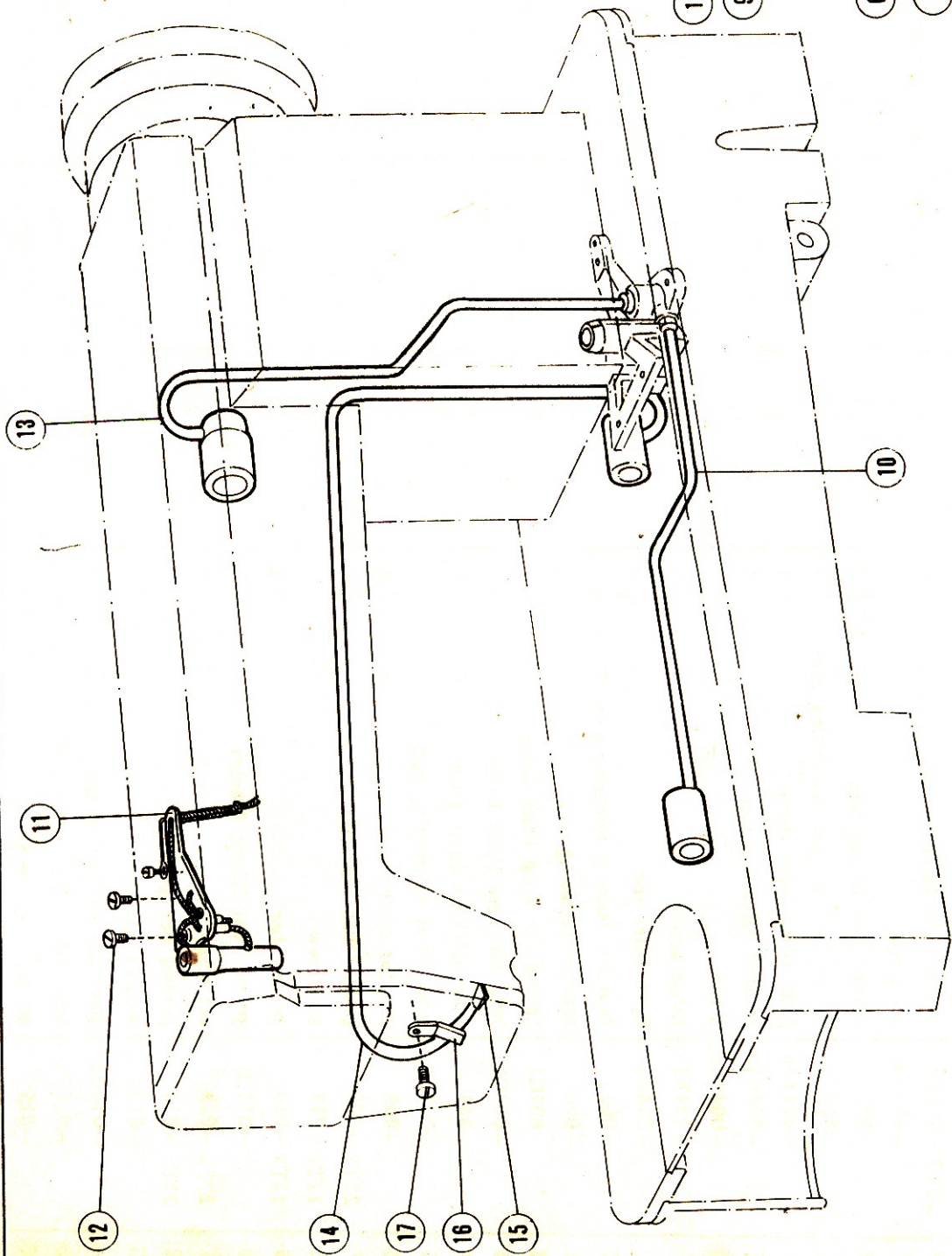
6. Feeding and feed lifting mechanism

No.	Ref. No.	Description	Pcs.	Note	No.	Ref. No.	Description	Pcs.	Note
1	22T6 -001A1a	feed rock shaft crank	1		29		feed lifting rock shaft	1	
2	3 -001A1b	screw	2		30	-011	bushing for feed lifting rock shaft	1	
3	-001A2a	feed bar	1		31	-012	set screw	1	
4	-001A2b	feed bar bushing	1		32	22T2 -002	C-type stop ring	1	
5	-001A3	feed dog	1		33		washer	1	
6	-001A4	screw	1		34	22T6 -013	collar for feed lifting rock shaft	1	
7	-001A5	shaft for feed bar crank	2		35	-005B1	screw	1	
8	22T2 -019	screw	1		36	22T3 -002B2	feed lifting rock shaft crank (right)	2	
9	22T6 -001A6	washer	1		37	22T6 -014G1	hinge pin	1	
10	-001A7	o braid for feed bar crank	1	$\phi 2.5 \times 330$	38	-007	screw	2	
11	-001A8	nu for hinge pin	1		39	-001A1b	oil braid holder	1	
12	-001A9	hinge pin for feed bar link	1			-015			
13	-003	feed rock shaft	1						
14	-004	feed rock shaft bushing	1						
15	22T2 -009	set screw	1						
16		C-type stop ring	1						
17	22T6 -005B1	collar	1						
18	22T3 -002B2	set screw	1						
19	22T6 -006C1	feed rock shaft crank	2						
20	-001A1b	screw	1						
21	-007	hinge pin for feed rock shaft crank	2						
22	-008D1	feed lifting rock shaft crank (left)	1						
23	-008D2	hinge pin	1						
24	-008D3	screw	1						
25	-009F1	feed bar link	1						
26	-009F2	oil braid holder	1						
27	-009F3	oil braid for feed bar link	1	$\phi 2.5 \times 300$					
28	-010	screw	2						



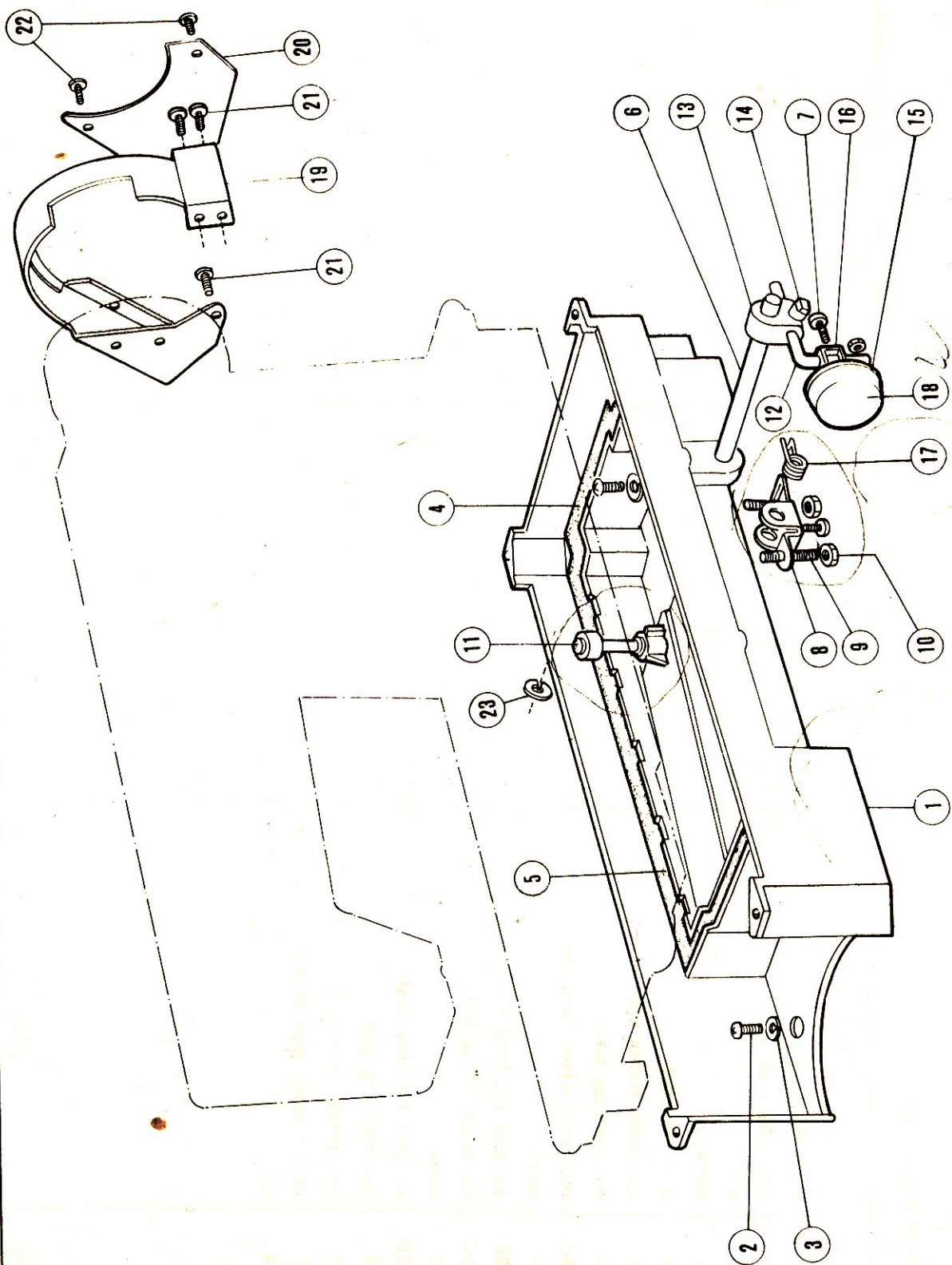
7. Presser foot mechanism

No.	Ref. No.	Description	pcs.	Note	No.	Ref. No.	Description	Pcs.	Note
1	22T7 -001A1	presser bar lifter	1		29	22T7 -017F	presser foot complete	1	
2	-001A2	set screw	1						
3	-002	presser bar lifting cam	1						
4	-003	oil seal for presser bar lifting cam	1						
5	-004B1a	knee lifter lever (left)	1						
6	-004B1b	tension releasing cam	1						
7	-004B1c	screw	1						
8	-004B2	hinge screw	2						
9	-004B3	knee lifter rod	1						
10	-005	bolt for tension releasing cam	1						
11	-006	tension releasing pin	1						
12	-007C1	spring for knee lifter lever	1						
13	-007C2	bolt for knee lifter lever	1						
14	-005	bolt for knee lifter lever	1						
15	-007C3	knee lifter connecting rod	1						
16	-008	pin for spring	1						
17	22T7 -009	presser bar bushing	1						
18	22T2 -013	set screw	1						
19	22T7 -010	presser bar	1						
20	-011D1	presser bar lifting bracket	1						
21	22T1 -013	set screw	1						
22	22T7 -012	presser bar guide	1						
23	-013	presser spring	1						
24	-014E1	pressure regulating thumb screw	1						
25	-014E2	lock nut	1						
26	-015	set screw	1						
27	-016	slack thread regulator	1						
28	22T2 -004	screw	1						



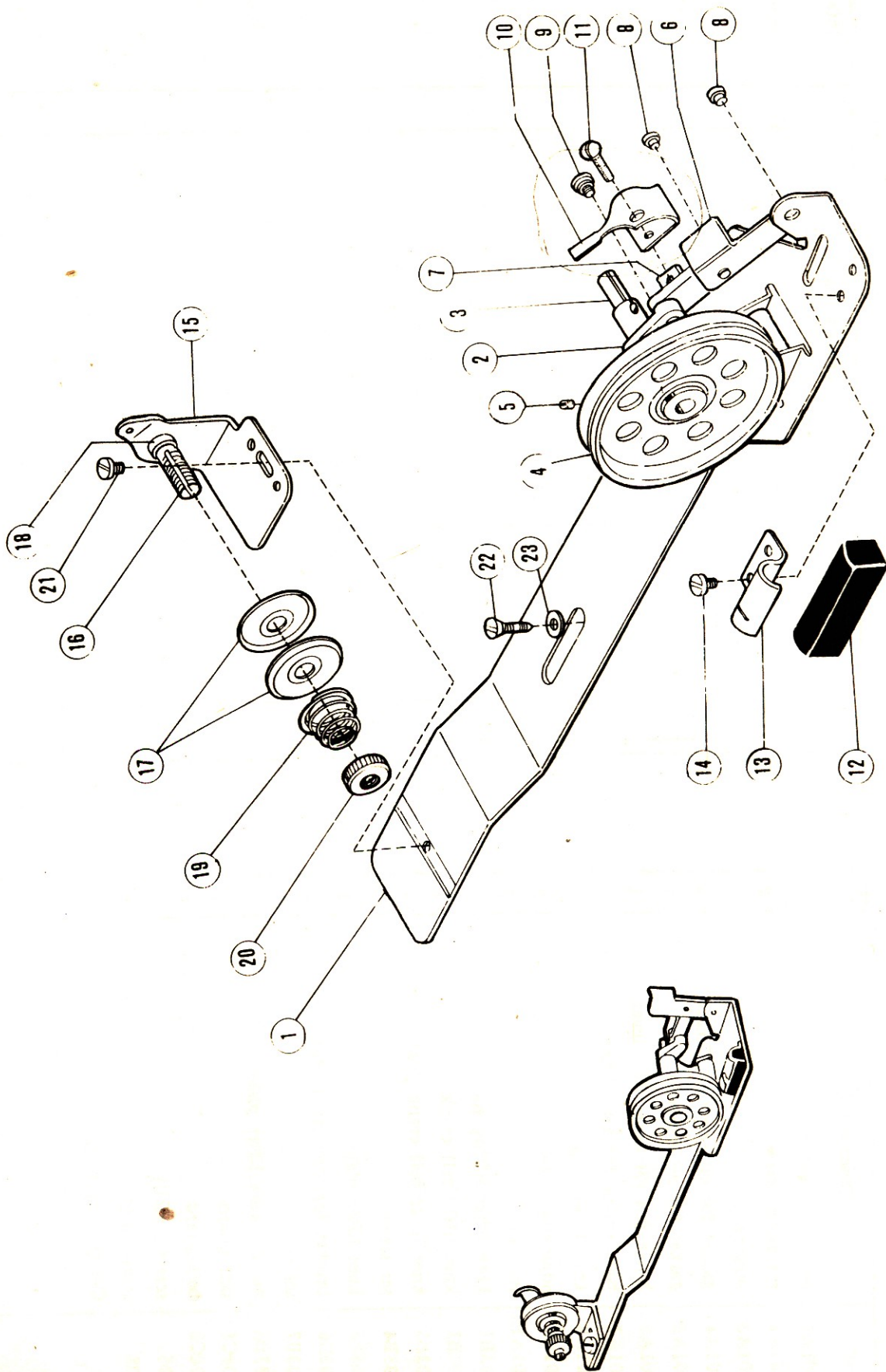
8. Lubrication mechanism

No.	Ref. No.	Description	pcs.	Note	No.	Ref. No.	Description	pcs.	Note
1	22T8 -001	oil pump body	1						
2	-002	oil pump impeller	1						
3	-003	screw	1						
4	-004	screw	3						
5	-005	spring washer	1						
6	-006	oil pump fitting plate	1						
7	-007	oil adjusting plate	1						
8	-008A	oil pump screen complete	1						
9	-009	screw	3						
10	-010B	oil pipe for hook shaft	1						
11	-011C	oil braid fitting plate	1						
12	-012	screw	2						
13	-013D	oil pipe for arm shaft	1						
14	-014	oil returning pipe	1						
15	-015	felt pouch for return oil filter	1						
16	-016	oil returning pipe holder	1						
17	22T2 -004	screw	1						



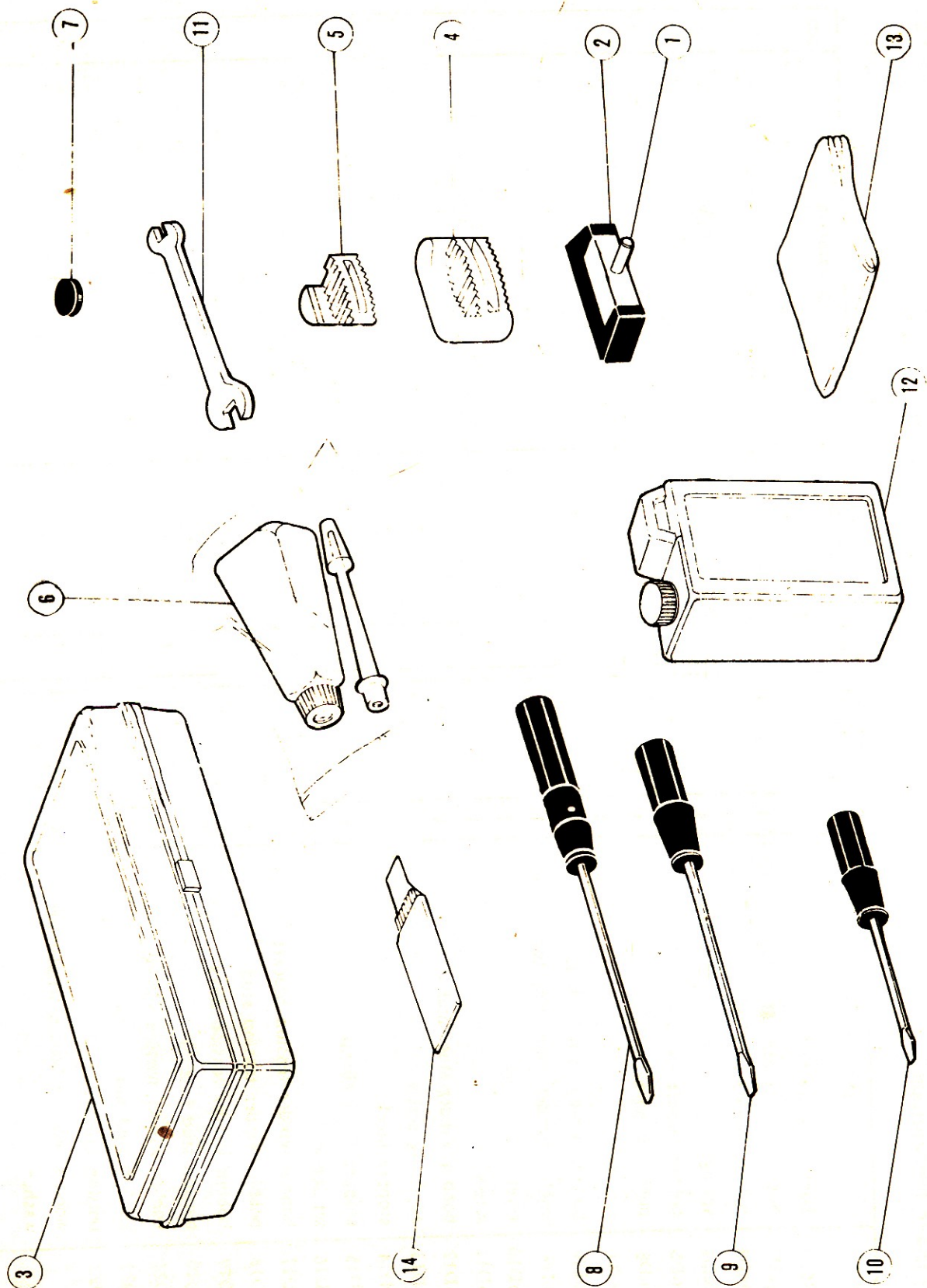
9. Oil reservoir and other accessories

No.	Ref. No.	Description	pcs.	Note	No.	Ref. No.	Description	pcs.	Note
1	22T9 -001A1	oil reservoir ✓	1						
2	-001A2	oil drain screw	2						
3	-001A3	washer	2						
4	-001A4	gasket for oil reservoir (small)	1						
5	-001A5	gasket for oil reservoir (big)	1						
6	-001A6	hinge pin for knee lifter lever	1						
7	-001A7	back spring for knee lifter	1						
8	-001A8	knee lifter stop bracket	1						
9	-001A9	adjusting screw	2						
10	-001A10	lock nut	2						
11	-003B1	knee lifter lifting rod	1						
12	-003B2	knee lifter bell crank	1						
13	-003B3	knee lifter bell crank joint	1						
14	-003B4	set screw	2						
15	-003B5	knee lifter plate	1						
16	-003B6	bracket for knee lifter plate	1						
17	-003B7	set screw	1						
18	-003B8	pat for knee lifter plate	1						
19	-004C1	belt guard	1						
20	-004C2	belt guard	1						
21	-006	screw (small)	3						
22	-008	screw (big)	3						
23		C-type stop ring	1						



10. Bobbin winder mechanism

No.	Ref. No	Description	pcs.	Note	No.	Ref. No.	Description	pcs.	Note
1	22T9 -006D1	bobbin winder base	1						
2	-006D2	bobbin winder arm ●	1						
3	-006D3	bobbin winder arm shaft	1						
4	-006D4	spring	1						
5	-006D5	bobbin winder spindle	1						
6	-006D6	bobbin winder pulley	1						
7	-006D7	screw	1						
8	-006D8	bobbin winder stop latch lever	1						
9	-006D9	bobbin winder connecting bar	1						
10	-006D10	rivet	2						
11	-006D11	screw	1						
12	-006D12	bobbin winder stop latch	1						
13	-006D13	adjusting screw	1						
14	-006D14	stopper block	1						
15	-006D15	stopper block clamp	1						
16	-006D16	set screw	1						
17	-006D17	bobbin winder tension bracket	1						
18	-006D18	bobbin winder tension stud	1						
19	-006D19	bobbin winder tension discs	2						
20	-006D20	tension stud bushing	1						
21	-006D21	bobbin winder tension spring	1						
22	-006D22	tension stud nut	1						
23	-006D23	tension bracket screw	1						
		wood screw for bobbin winder arm	2	4.5 × 20					
		washer	2						



11. Other accessories

No.	Ref. No.	Description	pcs.	Note	No.	Ref. No.	Description	pcs.	Note
1	22T9 —008F1	hinge of machine head	2						
2	—008F2	hinge socket of machine head	2						
3	—009	accessory box	1						
4	—010	rubber cap (big)	2						
5	—011	rubber cap (small)	2						
6	—012	oil pot	1						
7	—013	magnet	1						
8	—014	screw driver (large)	1						
9	—015	screw driver (medium)	1						
10	—016	screw driver (small)	1						
11	—017	double end wrench	1						
12	—018	oil can	1						
13	—019	vinyl cover	1						
14	—025	needle	1						

