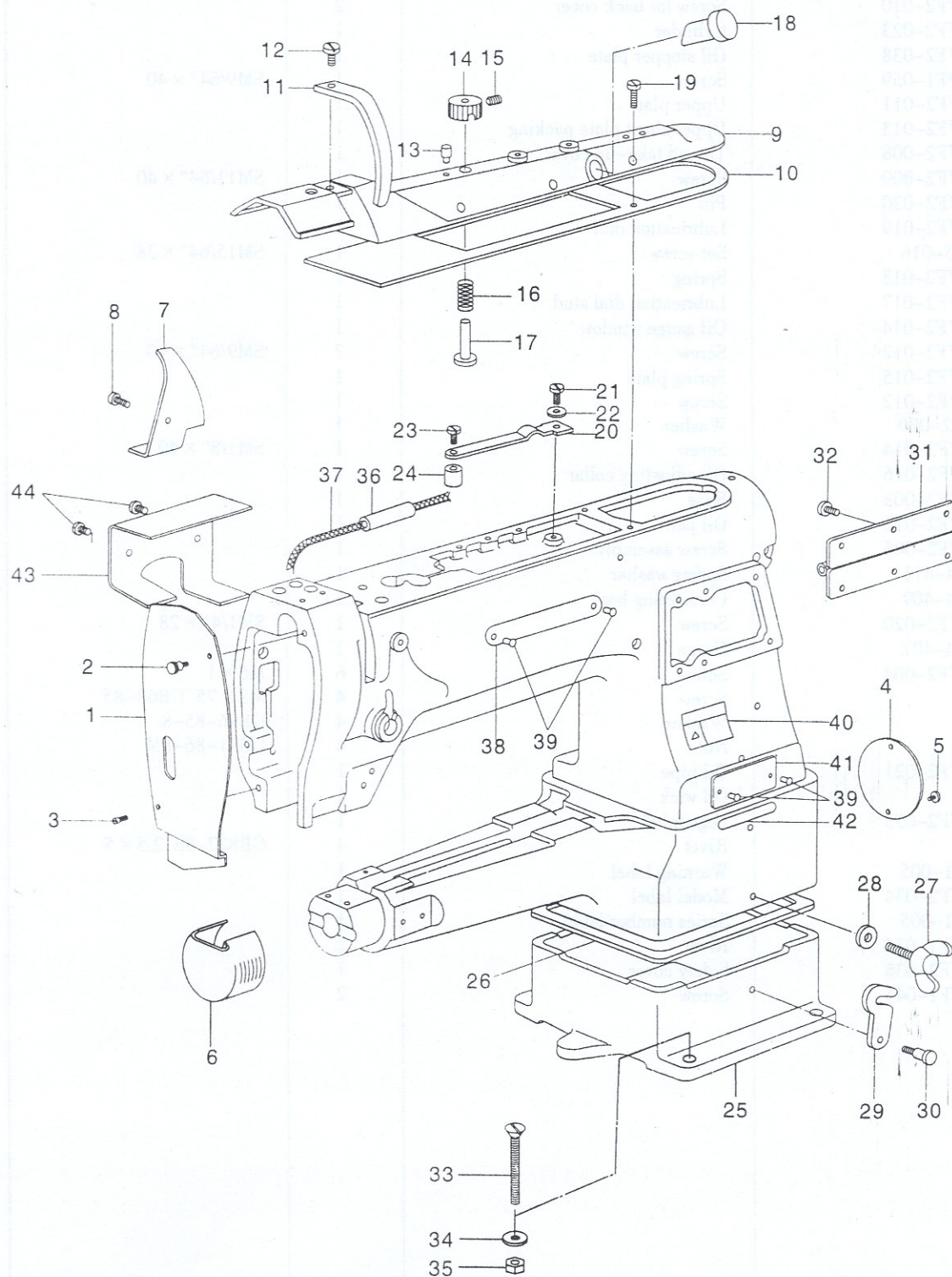


FOR SS3-S335V

Sun Special

**OPERATION INSTRUCTION
AND
PARTS MANUAL**

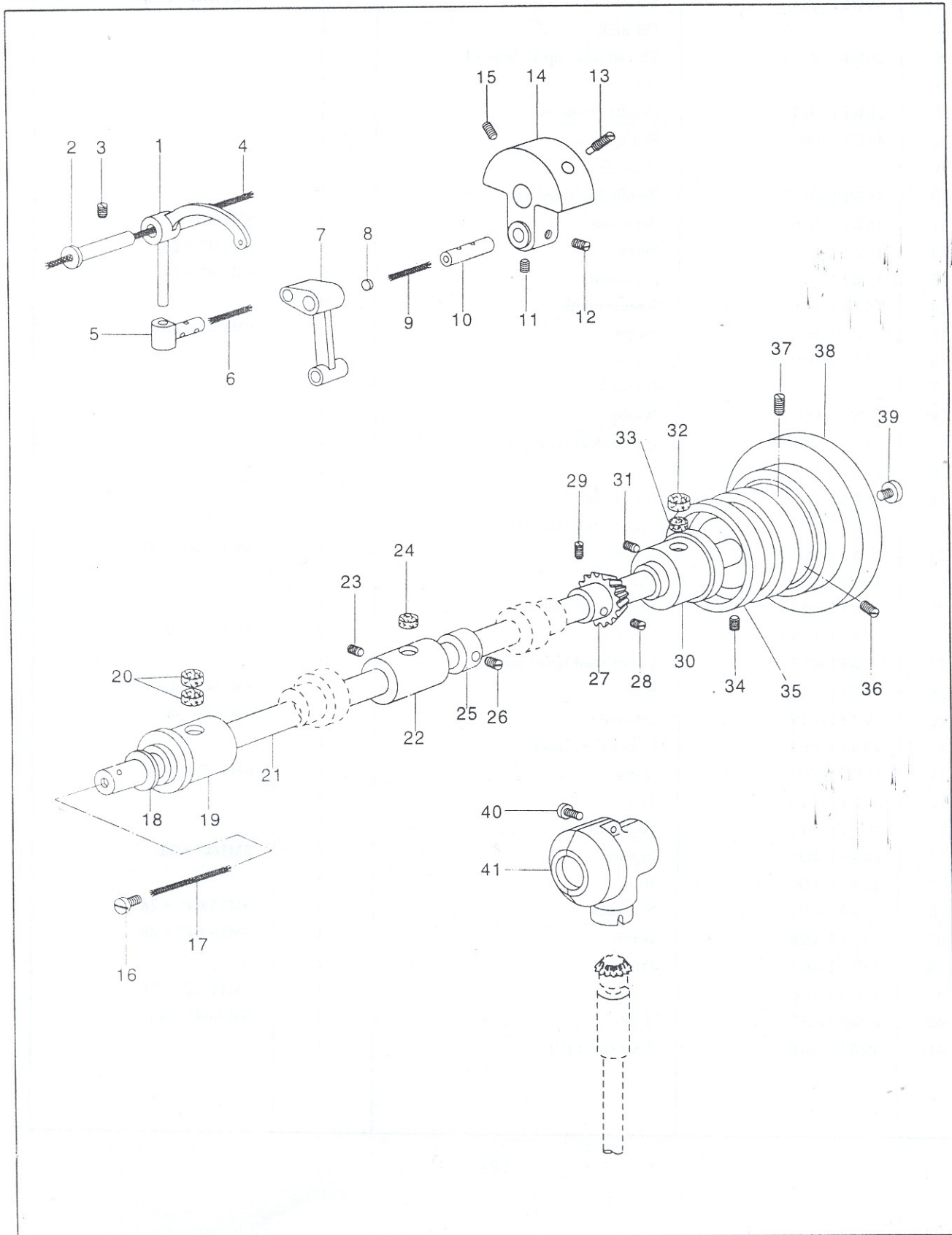
1. Machine body



1. Machine body

Ref. NO.	Parts No.	Name of parts	Qty.	Remarks
1	49WF2-004	Face plate	1	
2	49WF2-005	Screw for face plate	1	
3	49WF2-006	Pin for face plate	1	
4	37T4-422	Back cover	1	
5	13WF2-010	Screw for back cover	2	
6	49WF2-023	Cylinder	1	
7	16WF2-038	Oil stopper plate	1	
8	16WF1-059	Screw	1	SM9/64" × 40
9	49WF2-011	Upper plate	1	
10	49WF2-013	Upper sheet plate packing	1	
11	49WF2-008	Thread take-up cover	1	
12	49WF2-009	Screw	1	SM11/64" × 40
13	49WF2-020	Pin	1	
14	49WF2-019	Lubrication dial	1	
15	17T5-016	Set screw	1	SM15/64" × 28
16	49WF2-018	Spring	1	
17	49WF2-017	Lubrication dial stud	1	
18	49WF2-014	Oil gauge window	1	
19	49WF2-012	Screw	7	SM9/64" × 40
20	49WF2-015	Spring plate	1	
21	49WF2-012	Screw	1	
22	7KT2-020	Washer	1	
23	16WF3-014	Screw	1	SM1/8" × 40
24	49WF2-016	Oil adjusting collar	1	
25	49WF2-003	Base	1	
26	49WF2-010	Oil pan	1	
27	22WF2-006	Screw assembly	1	
28	37T4-411	Spring washer	1	
29	37T4-409	Connecting hook	1	
30	22WF2-020	Screw	1	SM1/4" × 28
31	37T4-407	Hinge	1	
32	22WF2-004	Screw	6	M6 × 1
33		Screw	4	M8 × 75 GB68-85
34		Washer	4	GB96-85-8
35		Nut	4	GB41-86-8M
36	49WF2-021	Oil pipe	1	
37		Oil wick	1	
38	16WF2-053	Logo label	1	
39		Rivet	4	GB827-86 2.5 × 5
40	1KT1-005	Warning label	1	
41	49WF2-034	Model label	1	
42	4KT1-005	Series number label	1	
43	35WF1-054	Rivet	2	
44	49WF2-036	Safety cover	1	
45	13WF1-045	Screw	2	

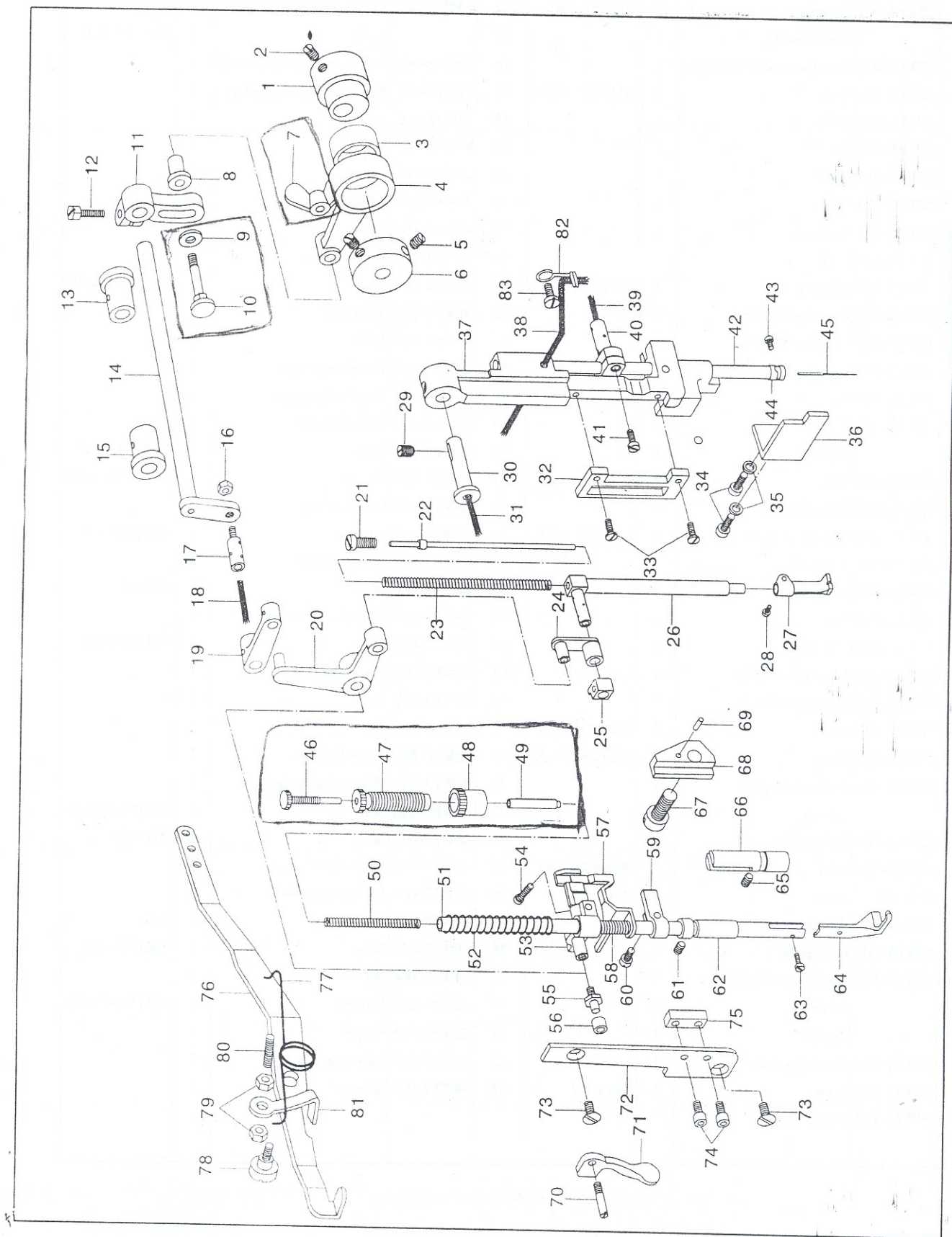
2.Upper shaft and thread take-up mechanism



2.Upper shaft and thread take-up mechanism

Ref. NO.	Parts No.	Name of parts	Qty.	Remarks
1	49WF1-005	Thread take-up	1	
2	49WF1-003	Thread take-up pin	1	
3	49WF1-004	Screw	1	SM17/64" × 32
4		Oil wick	1	
5	16WF1-013	Thread take-up slide block	1	
6		Oil	1	
7	16WF1-014	Needle crank rod	1	
8	49WF1-006	Rubber cap	1	
9		Oil wick	1	
10	16WF1-015	Needle bar crank pin	1	
11	16WF1-016	Set screw	1	SM1/4" × 28
12	16WF1-017	Screw	1	SM1/4" × 28
13	16WF1-019	Ser screw	1	SM1/4" × 28
14	16WF1-018	Needle crank	1	
15	16WF1-020	Screw	1	SM1/4" × 28
16	22WF2-049	Screw	1	SM5/16" × 28
17		Oil wick	1	
18	16WF1-021	Washer	1	
19	22WF1-053	Upper shaft bush (L)	1	
20	16WF1-025	Felt	2	
21	49WF1-007	Upper shaft	1	
22	49WF1-008	Upper shaft bush (M)	1	
23	16WF1-004	Screw	1	SM17/64" × 32
24	16WF1-025	Felt	1	
25	49WF1-012	Upper shaft collar	1	
26	22WF1-048	Screw	2	SM1/4" × 28
27	49WF1-013	Upper shaft bevel gear	1	
28	49WF1-014	Screw	1	SM1/4" × 40
29	49WF1-015	Set screw	1	SM1/4" × 40
30	49WF1-009	Upper shaft bush	1	
31	16WF1-004	Screw	1	SM17/64" × 32
32	49WF1-010	Felt	1	
33	49WF1-011	Small felt	1	
34	16WF1-056	Screw	1	SM1/4" × 32
35	22WF1-008	Ring	1	
36	13WF1-077	Set screw	1	SM15/64" × 28
37	13WF1-078	Screw	1	SM15/64" × 28
38	16WF1-035	Pulley	1	
39	16WF1-040	Screw	1	SM11/32" × 28
40	49WF1-017	Screw	1	SM9/64" × 40
41	49WF1-016	Gear cover (U)	1	

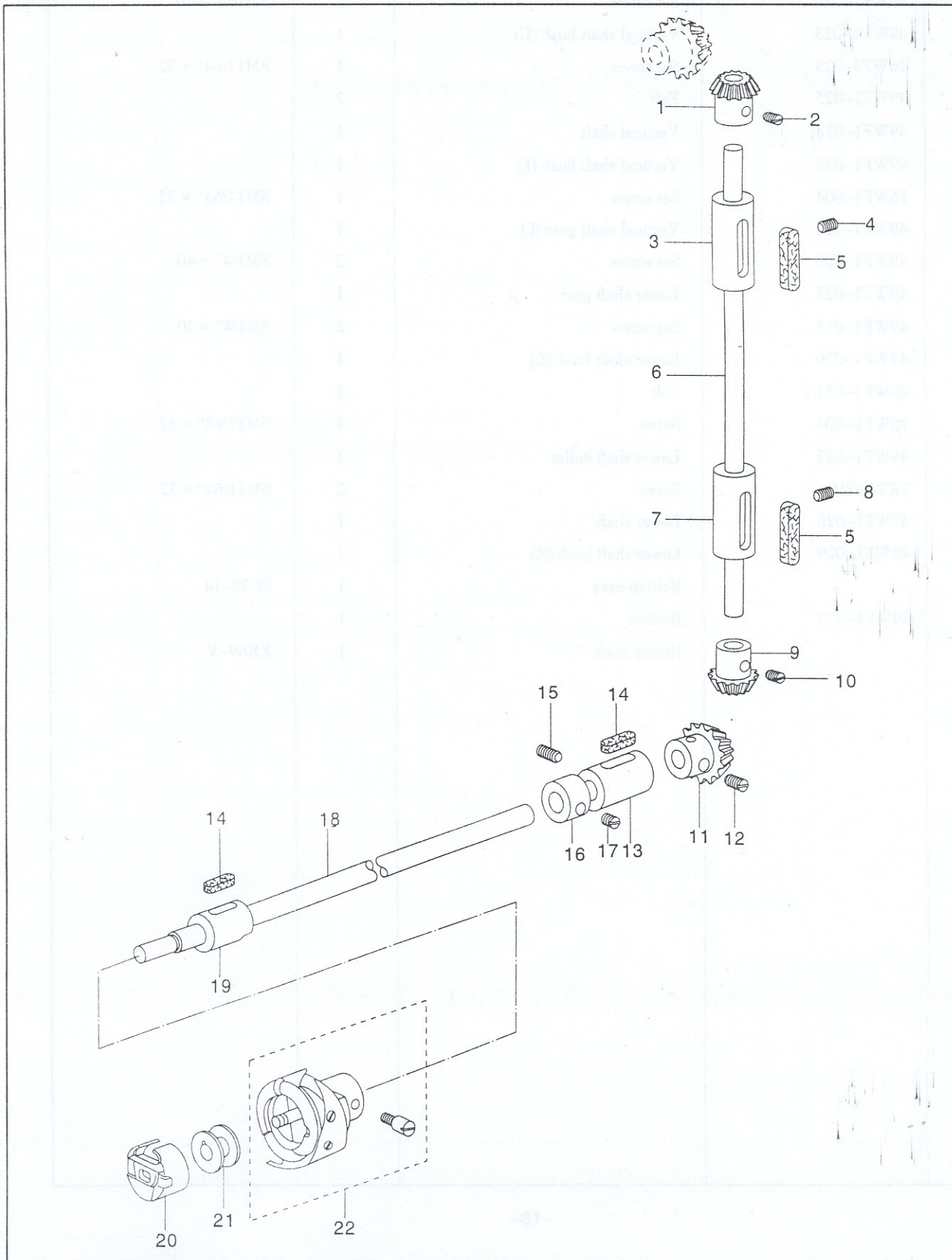
3. Needle bar, rocking frame, presser foot mechanism



3. Needle bar, rocking frame, presser foot mechanism

Ref. NO.	Parts No.	Name of parts	Qty.	Remarks	Ref. NO.	Parts No.	Name of parts	Qty.	Remarks
1	49WF5-006	Inner presser foot vertical cam	1		43	22WF1-003	Screw	1	SM17/64" × 32
2	22WF4-002	Set screw	2	SM1/4" × 40	44	49WF1-002	Needle bar thread guide	1	
3		Needle bearing	1		45		Needle	1	DP × 17 16#
4	22WF5-021	Eccentric wheel connecting rod	1		46	49WF3-004	Pressure adjustment screw(small)	1	
5	22WF5-025	Screw	2	SM7/32" × 32	47	49WF3-001	Pressure adjustment screw(big)	1	
6	22WF5-024	Collar	1		48	49WF3-002	Screw	1	
7	22WF5-020	Nut	1		49	49WF3-006	Spring pin	1	
8	22WF5-019	Collar	1		50	49WF3-005	Spring	1	
9	16WF2-023	Washer	1		51	22WF3-005	Presser bar	1	
10	22WF5-018	Stud screw	1		52	49WF3-003	Spring	1	
11	22WF5-017	Crank	1		53	22WF3-007	Presser bar lifter	1	
12	16WF3-030	Clamping screw	1	SM1/4" × 28	54	16WF2-033	Screw	1	SM11/64" × 40
13	22WF5-013	Upper feed shaft bush	1		55	49WF3-009	Roller screw	1	
14	22WF5-012	Upper feed shaft	1		56	49WF3-010	Roller	1	
15	22WF5-013	Upper feed shaft bush	1		57	22WF3-009	Thread release plate	1	
16	22WF5-016	Nut	1		58	22WF3-008	Thread release spring	1	
17	22WF5-015	Pin screw	1		59	16WF4-021	Presser bar guide	1	
18		Oil wick	1		60	16WF4-022	Screw	1	SM9/64" × 40
19	22WF5-014	Link	1		61	16WF3-025	Set screw	1	SM17/64" × 32
20	22WF5-026	Swing plate	1		62	49WF3-007	Presser bar bush	1	
21	49WF5-009	Pressure adjustment screw	1	SM5/16" × 24	63	22WF3-014	Set screw	1	SM9/64" × 40
22	22WF5-031	Spring rod	1		64	49WF3-015	Outer presser foot	1	
23	49WF5-007	Spring	1		65	6K2-042	Screw	1	M6 × 1
24	22WF5-028	Link	1		66	49WF3-008	Presser bar guide shaft	1	
25	22WF5-009	Slide block	1		67	22WF3-011	Screw	1	SM1/4" × 28
26	22WF5-029	Inner presser foot bar	1		68	22WF3-010	Presser plate	1	
27	49WF5-008	Inner presser foot	1		69	22WF3-012	Pin	1	
28	22WF5-033	Screw	1	SM5/32" × 40	70	16W4F-001	Pin screw	1	
29	16WF1-011	Screw	1	SM17/64" × 32	71	16W4F-002	Presser foot lifter	1	
30	22WF5-002	Rocking frame shaft	1		72	49WF3-011	Thread release guiding plate	1	
31		Oil wick	1		73	49WF3-012	Screw	2	SM15/64" × 28
32	22WF5-003	Bridging plate	1		74	49WF3-014	Screw	2	M5 × 0.8
33	16WF1-059	Screw	2	SM9/64" × 40	75	49WF3-013	Stopper block	1	
34	6K2-019	Screw	2	M4 × 0.7	76	22WF3-002	Presser foot lifter lever	1	
35	22T1-007	Washer	2		77	22WF3-001	Presser spring	1	
36	49WF5-001	Guide plate	1		78	16WF3-059	Screw	1	SM1/4" × 28
37	22WF5-001	Needle bar rocking frame	1		79	22WF3-004	Nut	2	
38		Oil wick	1		80	22WF3-003	Set screw	1	SM15/64" × 28
39		Oil wick	1		81	22WF3-015	Stopper	1	
40	22WF1-004	Connecting stud	1		82	49WF5-010	Oil wick set ring	1	
41	16WF1-009	Screw	1	M4 × 0.7	83	49WF2-012	Set screw	1	
42	49WF1-001	Needle bar							

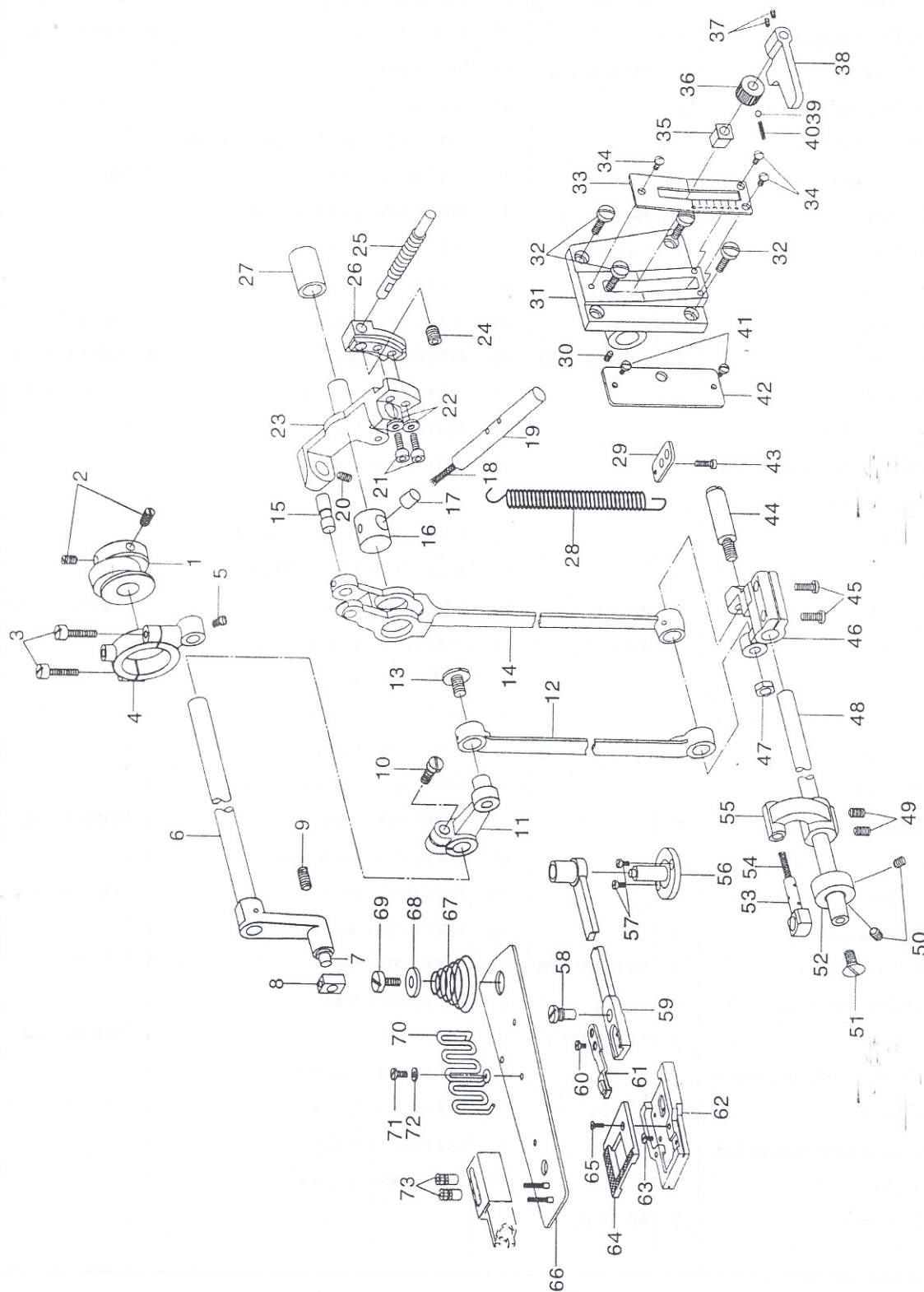
4.Vertical shaft, lower shaft mechanism



4.Vertical shaft, lower shaft mechanism

Ref. NO.	Parts No.	Name of parts	Qty.	Remarks
1	49WF1-019	Vertical shaft gear (U)	1	
2	49WF1-020	Set screw	2	SM1/4" × 40
3	49WF1-023	Vertical shaft bush (U)	1	
4	16WF3-025	Set screw	1	SM17/64" × 32
5	49WF1-025	Felt	2	
6	49WF1-018	Vertical shaft	1	
7	49WF1-024	Vertical shaft bush (L)	1	
8	16WF1-004	Set screw	1	SM17/64" × 32
9	49WF1-021	Vertical shaft gear (L)	1	
10	49WF1-020	Set screw	2	SM1/4" × 40
11	49WF1-027	Lower shaft gear	1	
12	49WF1-015	Set screw	2	SM1/4" × 40
13	49WF1-030	Lower shaft bush (B)	1	
14	49WF1-031	Felt	1	
15	16WF1-004	Screw	1	SM17/64" × 32
16	49WF1-032	Lower shaft collar	1	
17	7KT3-026	Screw	2	SM11/64" × 32
18	49WF1-026	Lower shaft	1	
19	49WF1-029	Lower shaft bush (A)	1	
20		Bobbin case	1	SC39-14
21	49WF1-033	Bobbin	1	
22		Rotary hook	1	KR69-V

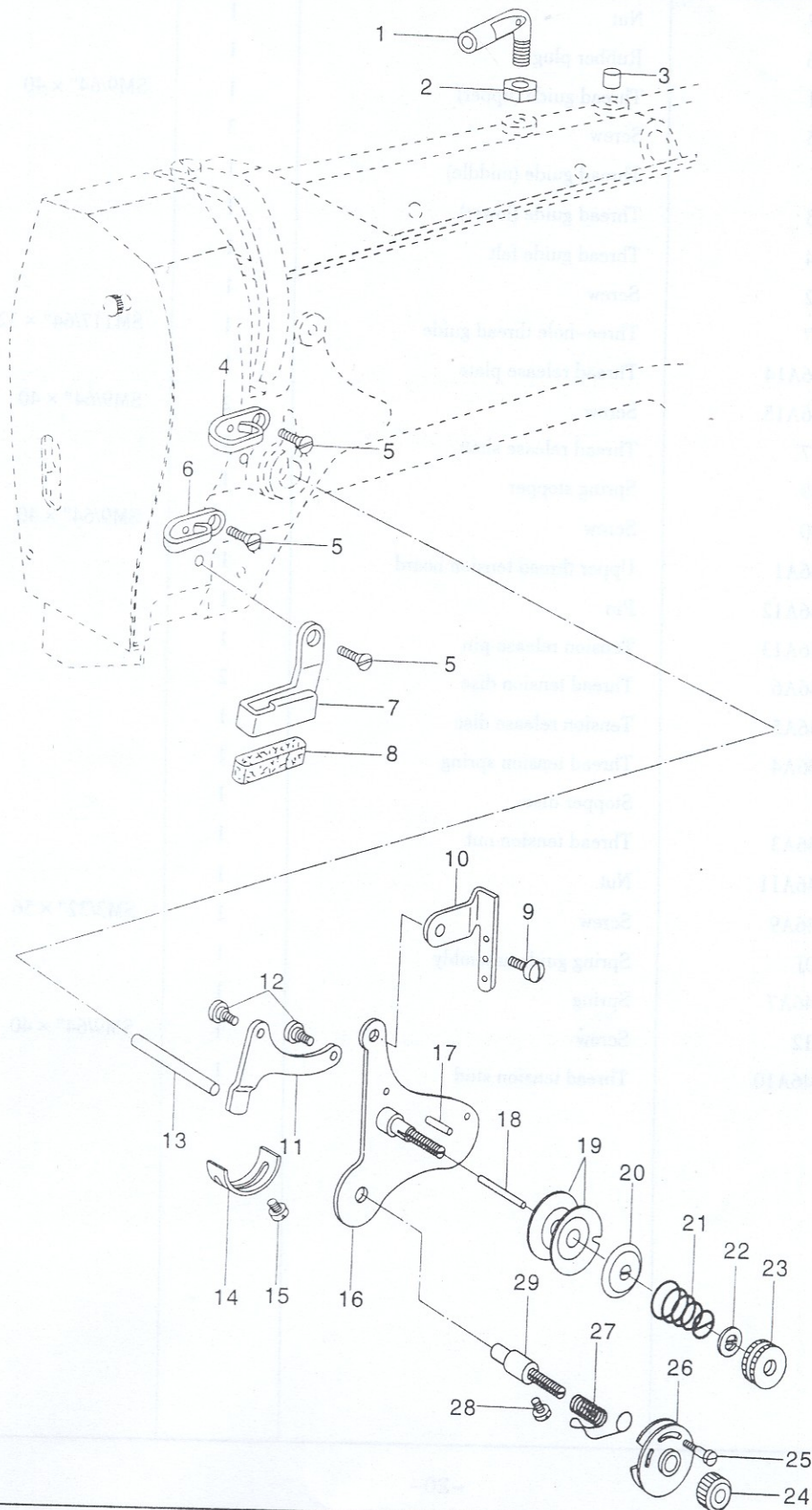
5. Feed mechanism



5. Feed mechanism

Ref. NO.	Parts No.	Name of parts	Qty.	Remarks	Ref. NO.	Parts No.	Name of parts	Qty.	Remarks
1	49WF4-001	Feed eccentric cam	1		38	22WF4-028	Feed adjust lever	1	
2	7KT3-033	Screw	2	SM1/4" × 40	39		Ball	1	Φ3.17
3	49WF4-003	Screw	2	M5 × 0.8	40	22WF4-030	Spring	1	
4	49WF4-002	Feed upper crank	1		41	37T4-416	Screw	2	SM9/64" × 40
5	1WF3-025	Screw	1	SM11/64" × 40	42	49WF2-033	Arm back cover	1	
6	49WF5-002	Needle bar rocking shaft	1		43	13WF1-045	Screw	1	M5 × 0.8
7	22WF5-006	Slide block shaft	1		44	49WF4-021	Lower feed crank link shaft	1	
8	22WF5-005	Slide block	1		45	49WF4-020	Screw	2	M6 × 1
9	22WF1-020	Screw	1	SM7/32" × 32	46	49WF4-019	Lower feed crank	1	
10	22WF3-011	Screw	1	SM1/4" × 28	47	7KT3-039	Screw	1	
11	49WF5-003	Crank	1		48	49WF4-018	Feed shaft	1	
12	49WF5-004	Needle bar rocking link	1		49	7KT5-024	Screw	2	SM15/64" × 28
13	49WF5-005	Screw	1	SM17/64" × 32	50	49WF4-029	Screw	2	SM11/64" × 32
14	49WF4-004	Feed link	1		51	49WF2-030	Set screw	1	SM9/64" × 40
15	49WF4-005	Feed link pin	1		52	49WF4-024	Feed shaft collar	1	
16	49WF4-009	Stitch length regulating shaft	1		53	49WF4-023	Link shaft	1	
17	49WF1-006	Rubber plug	1		54		Oil wick	1	
18		Oil wick	1		55	49WF4-022	Feed shaft crank (A)	1	
19	49WF4-008	Reverse stitching control rod	1		56	49WF2-028	Feed arm bracket	1	
20	21WF3-010	Screw	1	SM3/16" × 32	57	22WF4-014	Screw	2	SM11/64" × 40
21	6K2-019	Screw	2	M4 × 0.7	58	49WF4-028	Pin screw	1	
22	22T1-007	Washer	2		59	49WF4-027	Feed arm	1	
23	49WF4-006	Stitch length regulating bracket	1		60	49WF4-026	Screw	2	SM1/8" × 44
24	49WF4-014	Screw	1	SM15/64" × 32	61	49WF4-025	Feed dog	1	
25	49WF4-013	Pin screw	1		62	49WF2-025	Hook setting bracket	1	
26	49WF4-010	Bracket	1		63	49WF2-026	Screw	4	SM9/64" × 40
27	49WF4-007	Bush	1		64	49WF2-024	Needle plate	1	
28	49WF4-011	Reset spring	1		65	7KT4-035	Screw	2	SM11/64" × 40
29	49WF4-012	Spring plate	1		66	49WF2-027	Bed cover	1	
30	1WF4-016	Screw	1	SM15/64" × 28	67	49WF2-029	Spring	1	
31	49WF4-015	Feed adjust bracket	1		68	49WF2-031	Washer	1	
32	49WF4-016	Screw	4	SM13/64" × 32	69	49WF2-030	Screw	1	SM9/64" × 40
33	49WF4-017	Stitch length graduation plate	1		70	49WF2-032	Tape guide	1	
34	49WF2-026	Screw	3	SM9/64" × 40	71	22WF4-014	Set screw	1	SM11/64" × 40
35	22WF4-026	Stitch length regulating block	1		72	7KT2-020	Washer	1	
36	22WF4-027	Nut	1		73	28WF2-008	Set screw	2	
37	13WF4-027	Set screw	2	M5 × 0.8					

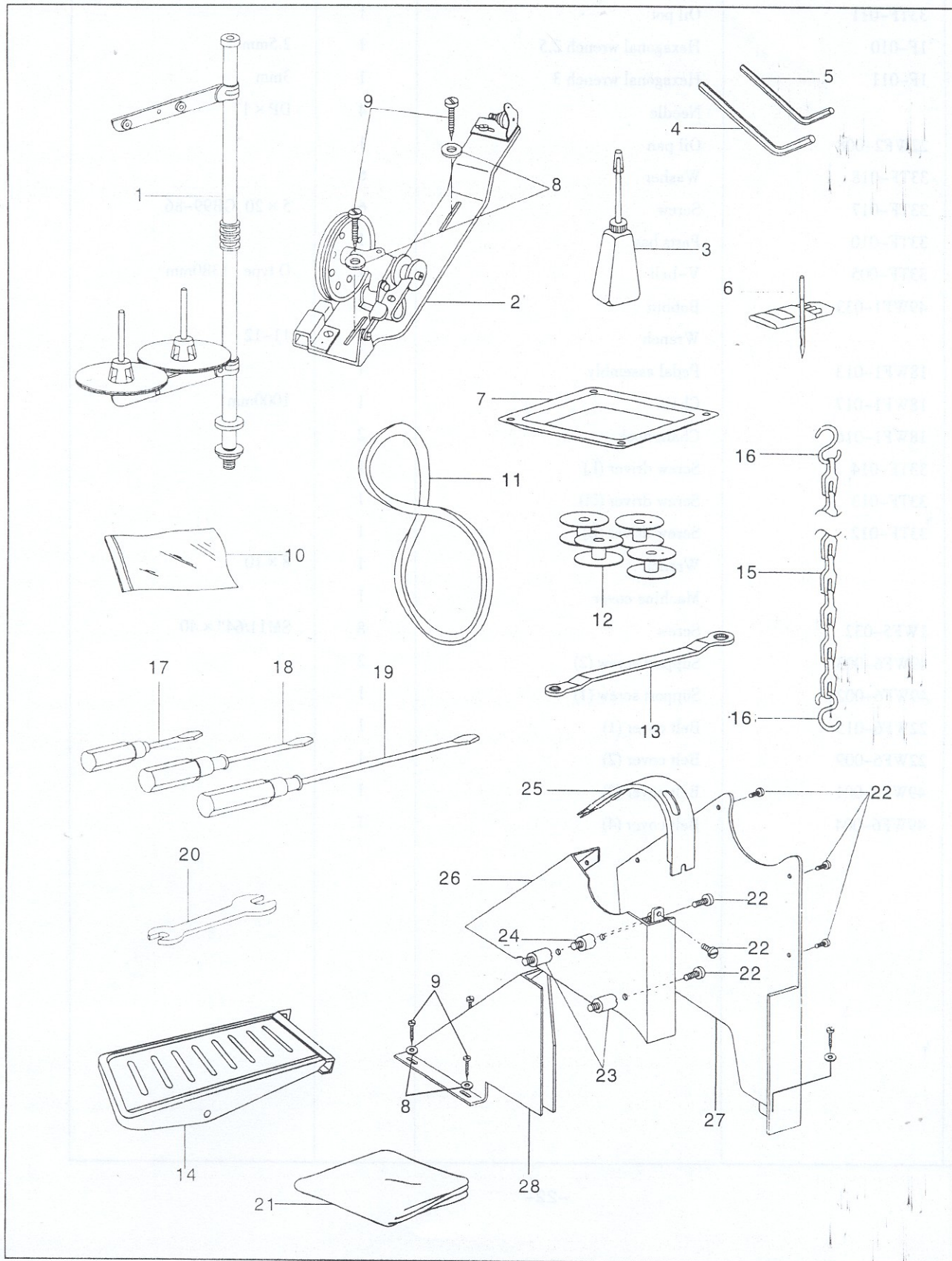
6. Threading mechanism



6. Threading mechanism

Ref. NO.	Parts No.	Name of parts	Qty.	Remarks
1	13WF2-066	Upper cover thread guide	1	
2	13WF2-067	Nut	1	
3	49WF1-006	Rubber plug	1	
4	16WF2-011	Thread guide (upper)	1	SM9/64" × 40
5	16WF2-015	Screw	3	
6	1WF1-006	Thread guide (middle)	1	
7	16WF2-013	Thread guide (lower)	1	
8	16WF2-014	Thread guide felt	1	
9	49WF2-022	Screw	1	
10	13WF2-047	Three-hole thread guide	1	SM117/64" × 32
11	16WF2-046A14	Thread release plate	1	
12	16WF2-046A15	Screw	2	SM9/64" × 40
13	16WF2-047	Thread release shaft	1	
14	16WF2-049	Spring stopper	1	
15	16WF2-050	Screw	1	SM9/64" × 40
16	16WF2-046A1	Upper thread tension board	1	
17	16WF2-046A12	Pin	1	
18	16WF2-046A13	Tension release pin	1	
19	16WF2-046A6	Thread tension disc	2	
20	16WF2-046A5	Tension release disc	1	
21	16WF2-046A4	Thread tension spring	1	
22	153029	Stopper disc	1	
23	16WF2-046A3	Thread tension nut	1	
24	16WF2-046A11	Nut	1	
25	16WF2-046A9	Screw	1	SM3/32" × 56
26	1WF1-010J	Spring guide assembly	1	
27	16WF2-046A7	Spring	1	
28	49WF2-012	Screw	1	SM9/64" × 40
29	16WF2-046A10	Thread tension stud	1	

7. Accessories



7. Accessories

Ref. NO.	Parts No.	Name of parts	Qty.	Remarks
1	33TF-019	Stand assembly	1	
2	S14420020	Bobbin winder assembly	1	
3	33TF-011	Oil pot	1	
4	1F-010	Hexagonal wrench 2.5	1	2.5mm
5	1F-011	Hexagonal wrench 3	1	3mm
6		Needle	4	DP × 17
7	22WF2-008	Oil pan	1	
8	33TF-018	Washer	6	
9	33TF-017	Screw	6	5 × 20 GB99-86
10	33TF-010	Parts bag	1	
11	33TF-005	V-belt	1	O type 1380mm
12	49WF1-033	Bobbin	4	
13		Wrench	1	11-12
14	18WF1-013	Pedal assembly	1	
15	18WF1-017	Chain	1	1000mm
16	18WF1-016	Chain hook	2	
17	33TF-014	Screw driver (L)	1	
18	33TF-013	Screw driver (M)	1	
19	33TF-012	Screw driver (B)	1	
20		Wrench	1	8 × 10
21		Machine cover	1	
22	1WF5-032	Screw	8	SM11/64" × 40
23	49WF6-003	Support screw (2)	2	
24	49WF6-002	Support screw (1)	1	
25	22WF6-015	Belt cover (1)	1	
26	22WF6-009	Belt cover (2)	1	
27	49WF6-001	Belt cover (3)	1	
28	49WF6-004	Belt cover (4)	1	