



TYPICAL

TW1-898/D2

TW2-898/D2

High speed Compound Feed and walking foot
Lockstitch Sewing machine

Parts Manual

- ☐ Please don't adjust and repair the machine by non-professionals,except adjusting stitch.
- ☐ Specifications subject to change without notice

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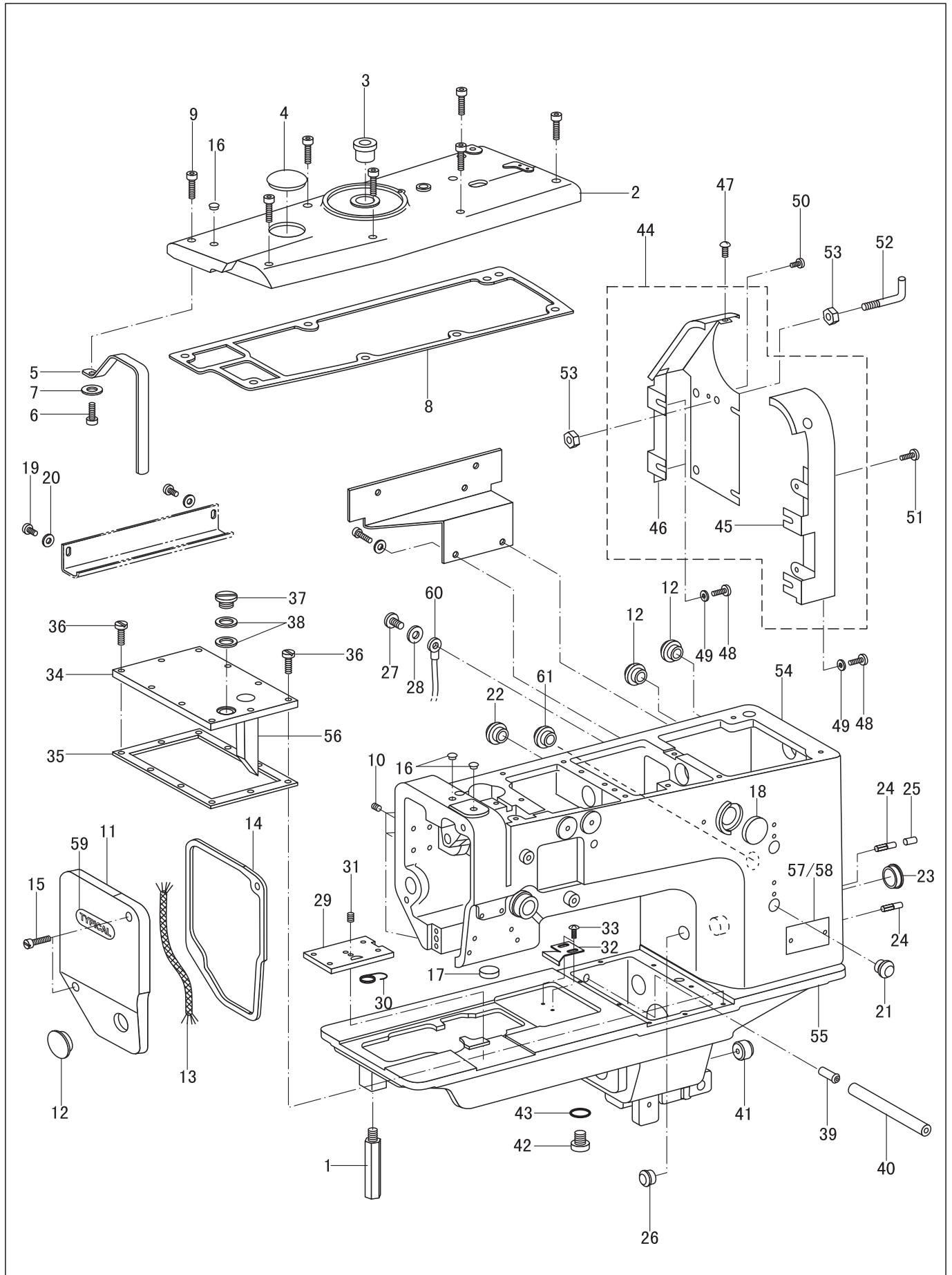
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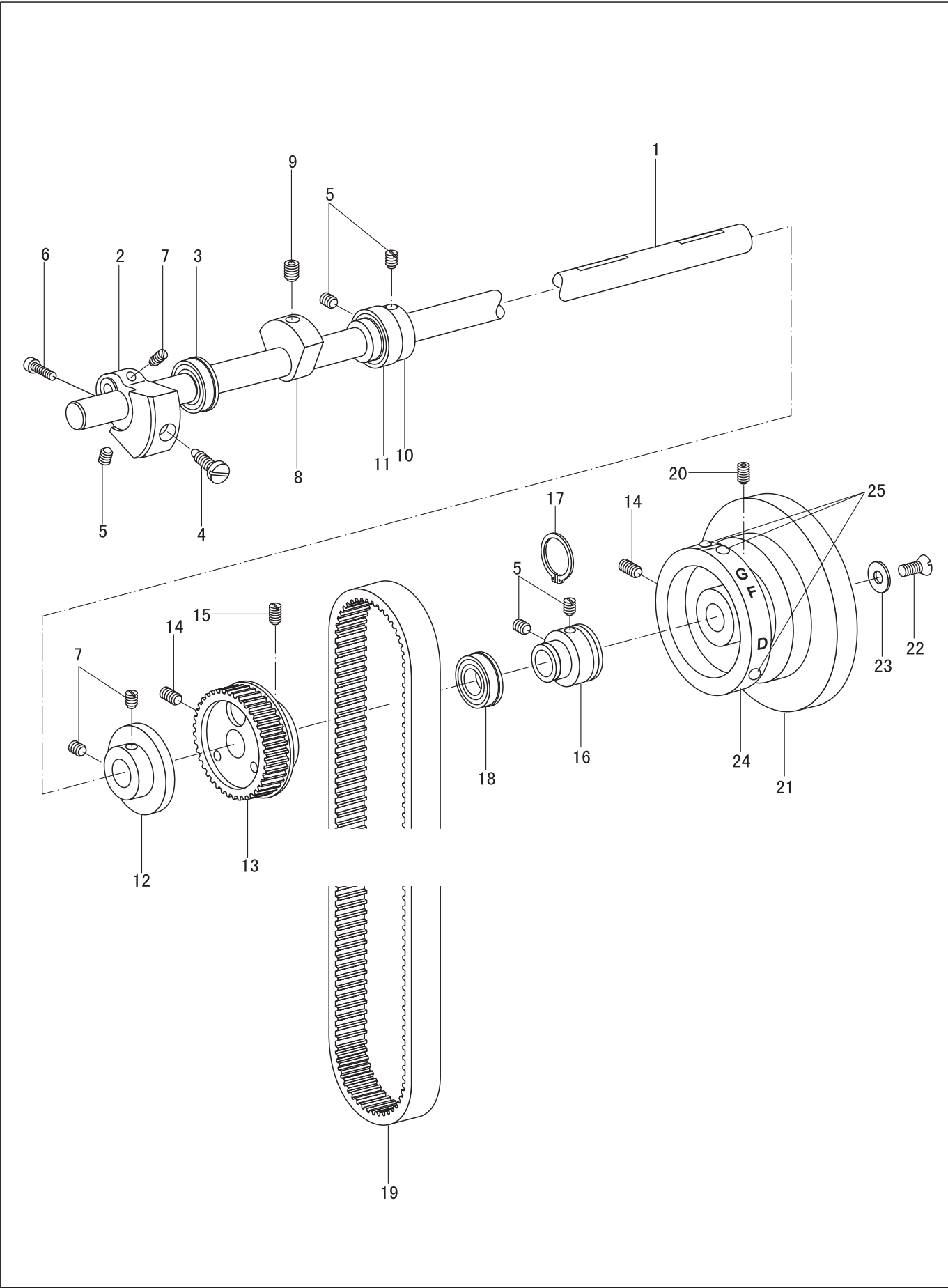
1. Machine body



1. Machine body

NO.	PARTS NO.	PARTS NAME	QTY		REMARK
			TW1-898	TW1-898-D2	
1	93WF1-021	Support bar	1	1	
2	93WF1-022	Top cover	1	1	
3	93WF1-001	Dial bushing	1	1	
4	93WF1-002	Rubber cap, 32.8	1	1	
5	93WF1-023	Thread take-up lever cover	1	1	
6	93WF1-024	Bolt	1	1	
7		Washer	1	1	
8	93WF1-003	Sheet packing	1	1	GB/T 97.1 4
9	93WF1-026	Bolt	7	7	
10	93WF1-027	Set screw	4	4	
11	93WF1-028	Face plate	1	1	
12	93WF1-004	Rubber cap, 20.5	2	2	
13		Oil wick	1	1	
14	93WF1-005	Packing	1	1	130mm
15	93WF1-029	Bolt	2	2	
16	93WF1-006	Rubber cap, 9.5	3	3	
17	93WF1-007	Rubber cap	1	1	
18	93WF1-008	Oil window	1	1	
19	13WF1-008	Screw	—	2	
20	93WF1-009	Washer	—	2	SM9/64" ×40
21	93WF1-049	Rubber cap	1	—	
22	93WF1-048	Rubber cap	1	—	
23	93WF1-010	Bushing	2	2	
24	2KT3-006	Pin	2	2	
25	2KT3-007	Nylon tube	1	1	140063-0
26	93WF1-11	Rubber cap, 10.5	1	1	153132-0
27		Screw	—	1	
28		Washer	—	1	GB/T 818 M4×6
29	93WF1-032	Slide plate	1	1	GB/T 97.1 4
30	93WF1-012	Spring	1	1	
31		Set screw	1	1	
32	93WF1-013	Stopper	1	1	GB/T 77 M4×5
33	1WF1-026	Screw	2	2	
34	93WF1-034	Upper cover assy	1	1	SM9/64" ×40
35	93WF1-014	Sheet packing	1	1	
36	93WF1-024	Bolt	10	10	
37	93WF1-015	Screw	1	1	
38	93WF1-016	Packing	2	2	
39	93WF1-017	Pipe	1	1	
40		Tube	1	1	
41	93WF1-018	Oil cap	1	1	L=120
42	93WF1-019	Screw	1	1	
43		O-ring	1	1	
44		Belt cover set	1	1	6.9×1.8A GB 3452.1
45	93WF1-037	Belt cover, L	1	1	
46	93WF1-038	Belt cover, R	1	1	
47	93WF1-058	Screw	1	1	
48		Bolt	4	4	
49		Washer	4	4	GB/T 70.1 M6×10
50		Screw	1	1	GB/T 97.1 6
51	93WF1-059	Screw	2	2	GB/T 65 M4×5
52	93WF1-020	Supporting rod	—	1	
53		Nut	—	2	
54	93WF1-046	Machine boy	1	1	GB/T 6172 M6
55	93WF1-047	Machine bed	1	1	
56	93WF1-050	Oil gauge	1	1	
57	93WF1-056	Model label	1	—	
	117WF1-001	Model label	—	1	
58	93WF1-057	Model label	1	—	
	117WF1-002	Model label	—	1	
59	93WF1-052	Brand label	1	1	
60	117WF1-006	Ground wire	—	1	
61	93WF1-048	Rubber plug	1	—	

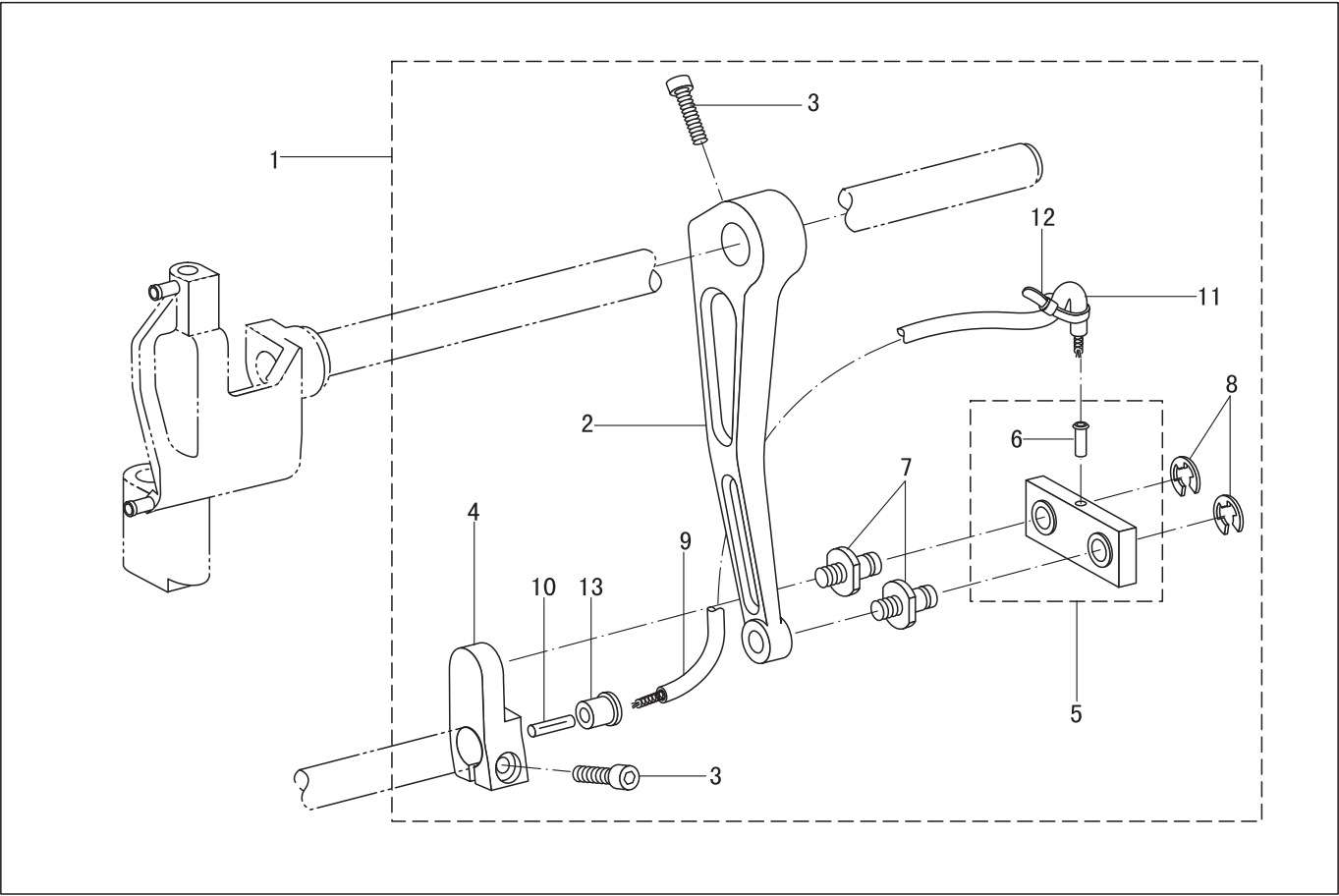
2. Upper shaft mechanism



2. Upper shaft mechanism

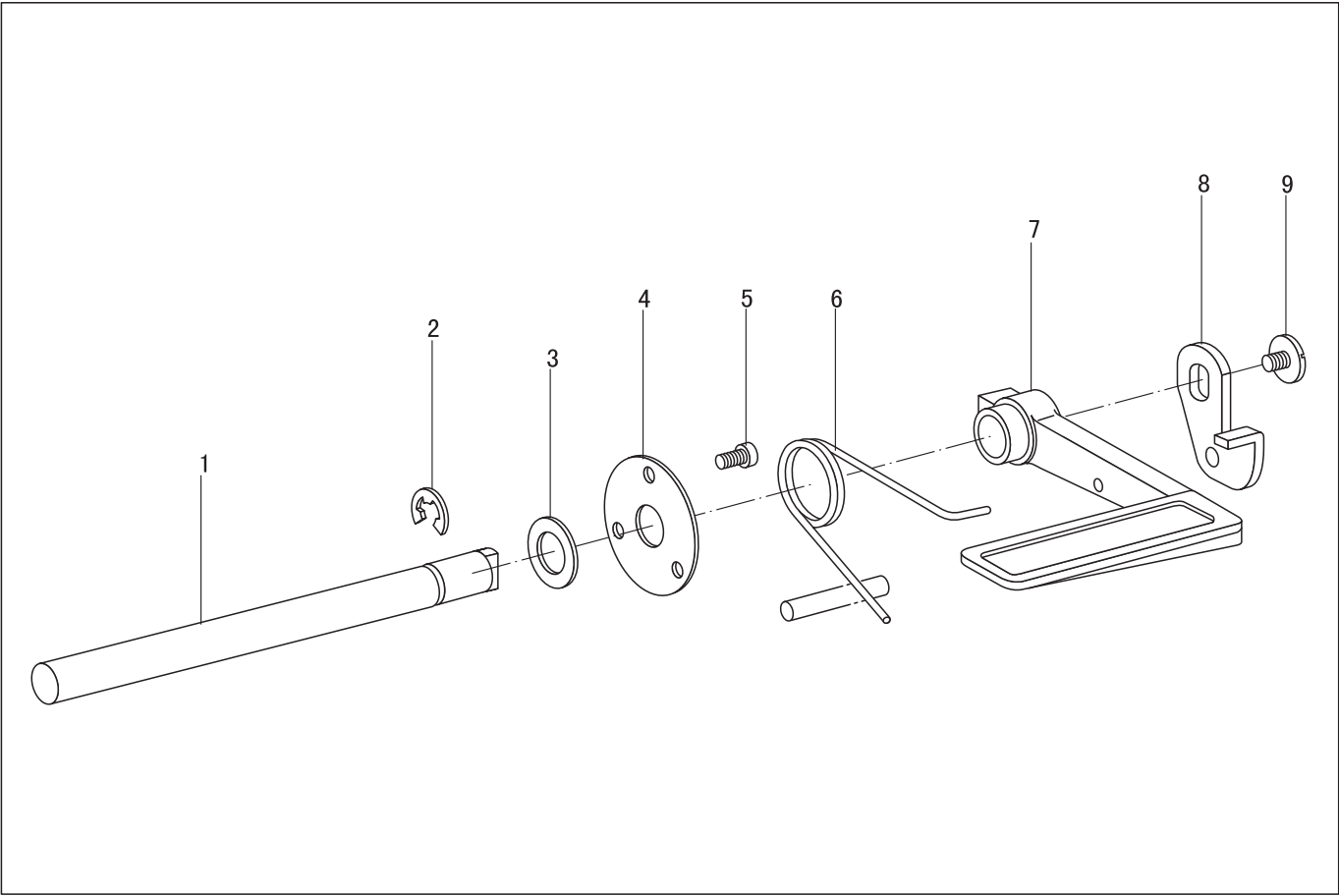
NO.	PARTS NO.	PARTS NAME	QTY		REMARK
			TW1-898	TW1-898-D2	
1	93WF2-004	Upper shaft	1	1	6204-2ZNR 20×47×14
2	93WF2-005	Crank motion cam	1	1	
3		Bearing, upper shaft	1	1	
4	93WF2-001	Screw	1	1	
5	93WF1-027	Set screw	5	5	
6	93WF1-026	Bolt	2	2	
7	93WF2-008	Set screw	3	3	
8	93WF2-009	Balancer	1	1	
9		Set screw	1	1	
10	93WF2-011	Collar, middle upper shaft	1	1	GB/T 80 M8×12
11		Bearing	1	1	
12	93WF2-013	Collar, bobbin winder	1	1	
13	93WF2-002	Upper belt pulley	1	1	
14	93WF2-014	Set screw	2	2	
15	93WF2-015	Set screw	1	1	
16	93WF2-016	Collar, back upper shaft	1	1	
17		Retaining ring	1	1	
18		Bearing	1	1	
19	93WF2-003	Timing belt	1	1	GB 894.2 20 6.34-2ZNR 20×52×15
20	93WF2-014	Set screw	1	1	
21	93WF2-020	Machine pulley	1	1	
22	13WF1-051	Screw	1	1	
23	13WF1-050	Washer	1	1	
24	93WF2-021	Rotation gauge	1	1	
25	661118	Rivet	3	3	

3. Upper feed mechanism



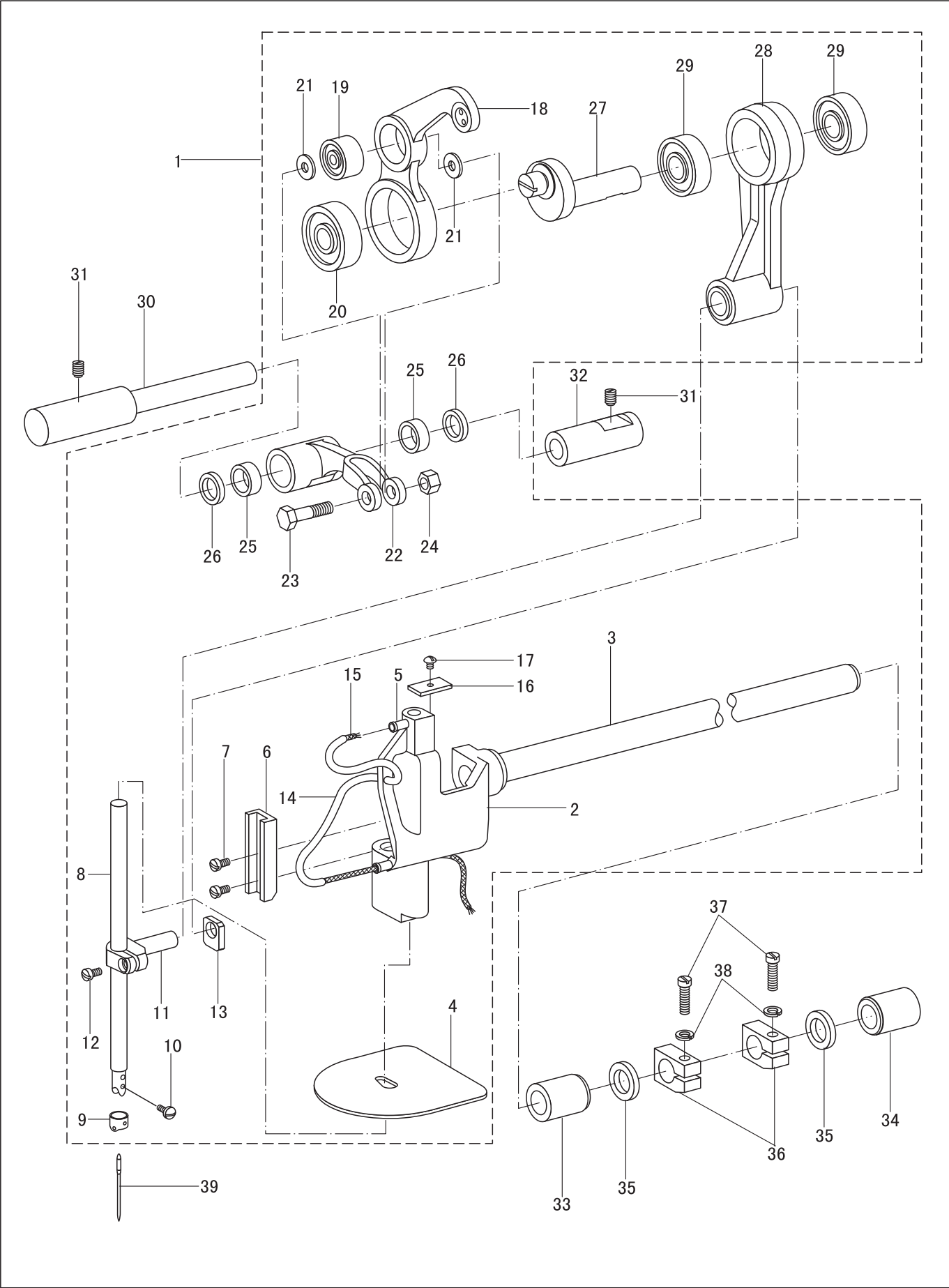
NO.	PARTS NO.	PARTS NAME	QTY	REMARK
			TW1-898-D2	
1	93WF3-003	Upper feed connecting rod assy	1	GB 896 8 L=250 3×8 L=170
2	93WF3-004	Upper feed connecting rod	1	
3	93WF3-005	Bolt	2	
4	93WF3-006	Connecting lever	1	
5	93WF3-007	Upper feed connection assy	1	
6	93WF3-001	Pipe	1	
7	93WF3-002	Shoulder screw	2	
8		Retaining ring	2	
9		Tube	1	
10		Felt	1	
11		Oil wick	1	
12	258753	Fastening band	1	
13	93WF3-010	Rubber cap	1	

4. Quick reverse mechanism



NO.	PARTS NO.	PARTS NAME	QTY		REMARK
			TW1-898	TW1-898-D2	
1	93WF4-003	Shaft, Reverse stitching lever	1	1	GB/T 70.1 M4×6
2	93WF4-004	Retaining ring	1	1	
3	93WF4-001	Washer	1	1	
4	93WF4-002	Spacer	1	1	
5		Bolt	3	3	
6	21WF3-043	Spring	1	1	100511-003
7	62WF-003	Reverse stitching lever	1	1	
8	62WF5-024E	Reverse stitching lever plate	1	1	
9	2KT3-005	Screw	1	-	

5. Needle bar and thread take-up mechanism



5. Needle bar and thread take-up mechanism

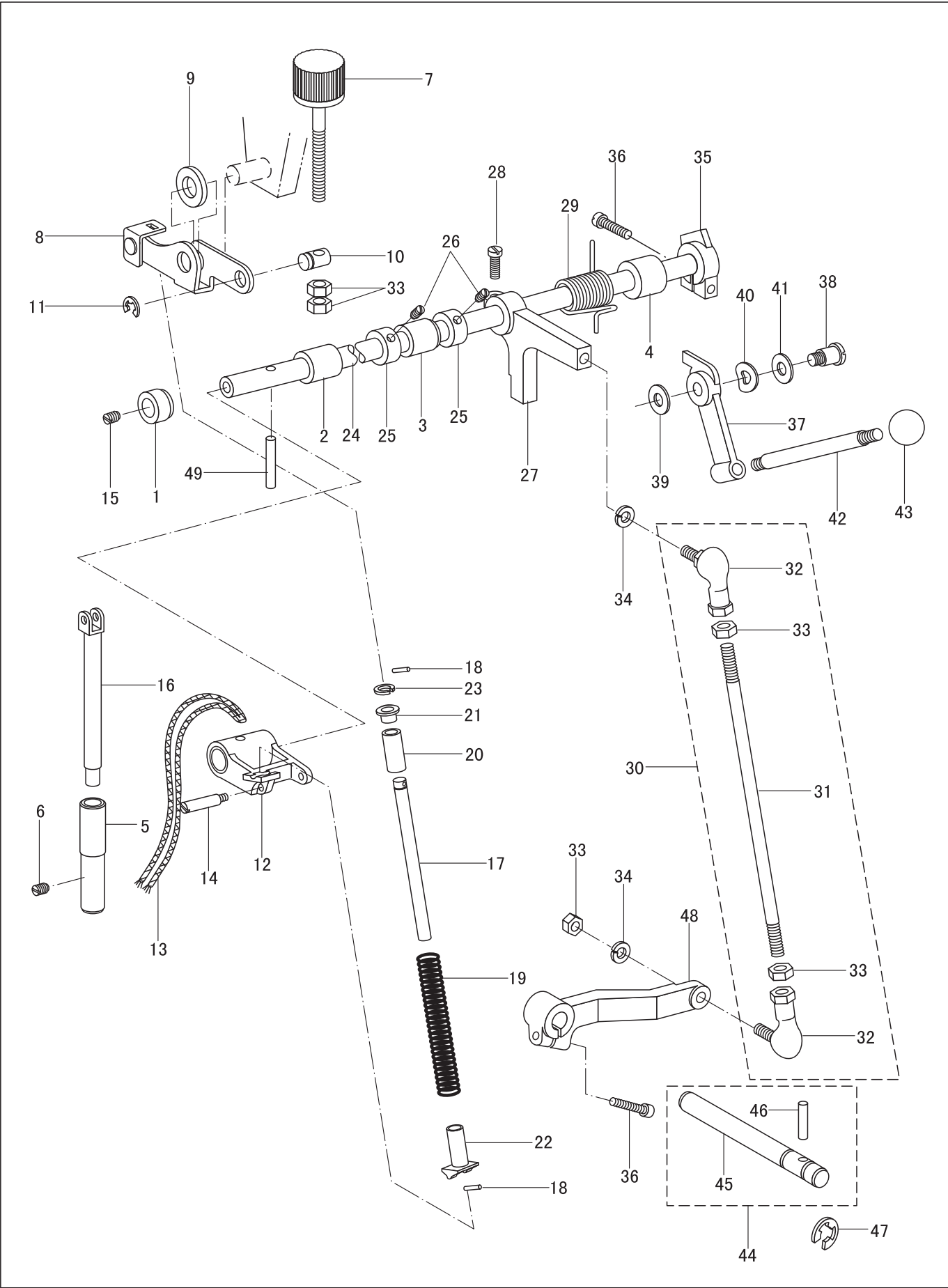
NO.	PARTS NO.	PARTS NAME	QTY		REMARK
			TW1-898	TW1-898-D2	
1		Needle bar bracket assy	1	1	
2	93WF5-010	Needle bar bracket	1	1	
3	93WF5-011	Needle bar bracket shaft	1	1	
4	93WF5-001	Rubber sheet	2	2	
5	93WF3-001	Pin	1	1	
6	93WF5-012	Guide rail	2	2	
7	491115	Screw	1	1	
8	93WF5-014	Needle bar	1	1	
9	93WF5-002	Thread guide, N-bar	1	1	
10	17WF5-037	Set screw	1	1	
11	93WF5-015	Needle bar clamp	1	1	
12	13WF3-018	Screw	1	1	
13	93WF5-016	Slide block, N-bar clamp	1	1	
14		Oil tube	1	1	L=110
15		Oil wick	1	1	L=700
16	93WF5-003	Sponge	1	1	
17		Screw	1	1	GB/T 65 M4×6
18	93WF5-018	Thread take-up lever complete	1	1	
19		Bearing, S, T-take-up	1	1	80024 4×13×5
20		Bearing, L, T-take-up	1	1	80018 8×14×10
21		Washer, T-take-up	2	2	GB/97.1 4
22	93WF5-022	Thread take-up support	1	1	
23	93WF5-023	Support screw	1	1	
24		Nut	1	1	GB/T 6170 M4
25		Needle roller bearing	2	2	29241/7 7×10×8
26	93WF5-004	Support ring	2	2	
27	93WF5-026	Crank	1	1	
28	93WF5-027	Needle bar crank rod assy	1	1	
29		Bearing	2	2	698-2Z 8×19×6
30	93WF5-029	Pin, T-take-up	1	1	
31	93WF5-030	Set screw	2	2	
32	93WF5-005	Bushing, T-take-up pin	1	1	
33	93WF5-006	Bushing	1	1	
34	93WF5-007	Bushing	1	1	
35	93WF5-008	Ring	2	2	
36	93WF5-031	Collar	2	2	
37	93WF1-029	Bolt	2	2	
38		Washer, spring	2	2	GB 859 5
39		Needle	1	1	DP×17 22#

This technical drawing is an exploded view of a mechanical assembly, showing various components and their assembly sequence. The parts are numbered 1 through 39. The assembly includes a main body (2) with a handle (3), a base (4), and a vertical support (8). Key sub-assemblies include a handle mechanism (1, 18, 19, 20, 21, 27, 28, 29), a trigger mechanism (22, 23, 24, 25, 26), a trigger guard (30, 31), and a trigger spring (32). The base (4) is mounted on a plate (39) and includes a trigger (33, 34, 35, 36, 37, 38). The diagram uses dashed lines to indicate the assembly path and alignment of the parts.

5. Needle bar and thread take-up mechanism (TW2-898-D2)

NO.	PARTS NO.	PARTS NAME	QTY			REMARK
			TW1- 898	TW1- 898-D2	TW2- 898-D2	
1		Needle bar bracket assy	1	1	1	
2	93WF5-010	Needle bar bracket	1	1	1	
3	93WF5-011	Needle bar bracket shaft	1	1	1	
4	93WF5-001	Rubber sheet	1	1	1	
5	93WF3-001	Pin	2	2	2	
6	93WF5-012	Guide rail	1	1	1	
7	93WF5-013	Screw	2	2	2	
8	179WF5-001	Needle bar	—	—	1	
9	193WF13-001e	Needle clamp	—	—	1	
10	179WF5-004	Set screw	—	—	2	
11	93WF5-015	Needle bar connector	1	1	1	
12	13WF3-018	Screw	1	1	1	
13	93WF5-016	Slide block, N-bar clamp	1	1	1	
14		Oil tube	1	1	1	L=110
15		Oil wick	1	1	1	L=700
16	93WF5-003	Sponge	1	1	1	
17		Screw	1	1	1	GB/T 65 M4×6
18	93WF5-018	Thread take-up lever complete	1	1	1	
19		Bearing, S, T-take-up	1	1	1	80024 4×13×5
20		Bearing, L, T-take-up	1	1	1	80018 8×14×10
21		Washer, T-take-up	2	2	2	GB/97.1 4
22	93WF5-022	Thread take-up support	1	1	1	
23	93WF5-023	Support screw	1	1	1	GB/T 6170 M4
24		Nut	1	1	1	29241/7 7×10×8
25		Needle roller bearing	2	2	2	
26	93WF5-004	Support ring	2	2	2	
27	93WF5-026	Crank	1	1	1	
28	93WF5-027	Needle bar crank rod assy	1	1	1	
29		Bearing	2	2	2	698-2Z 8×19×6
30	93WF5-029	Pin, T-take-up	1	1	1	
31	93WF5-030	Set screw	2	2	2	
32	93WF5-005	Bushing, T-take-up pin	1	1	1	
33	93WF5-006	Bushing	1	1	1	
34	93WF5-007	Bushing	1	1	1	
35	93WF5-008	Ring	2	2	2	
36	93WF5-031	Collar	2	2	2	
37		Bolt	2	2	2	GB/T 70.1 M5×16
38		Washer, spring	2	2	2	GB 859 5
39		Needle	1	1	2	DP×17 22#

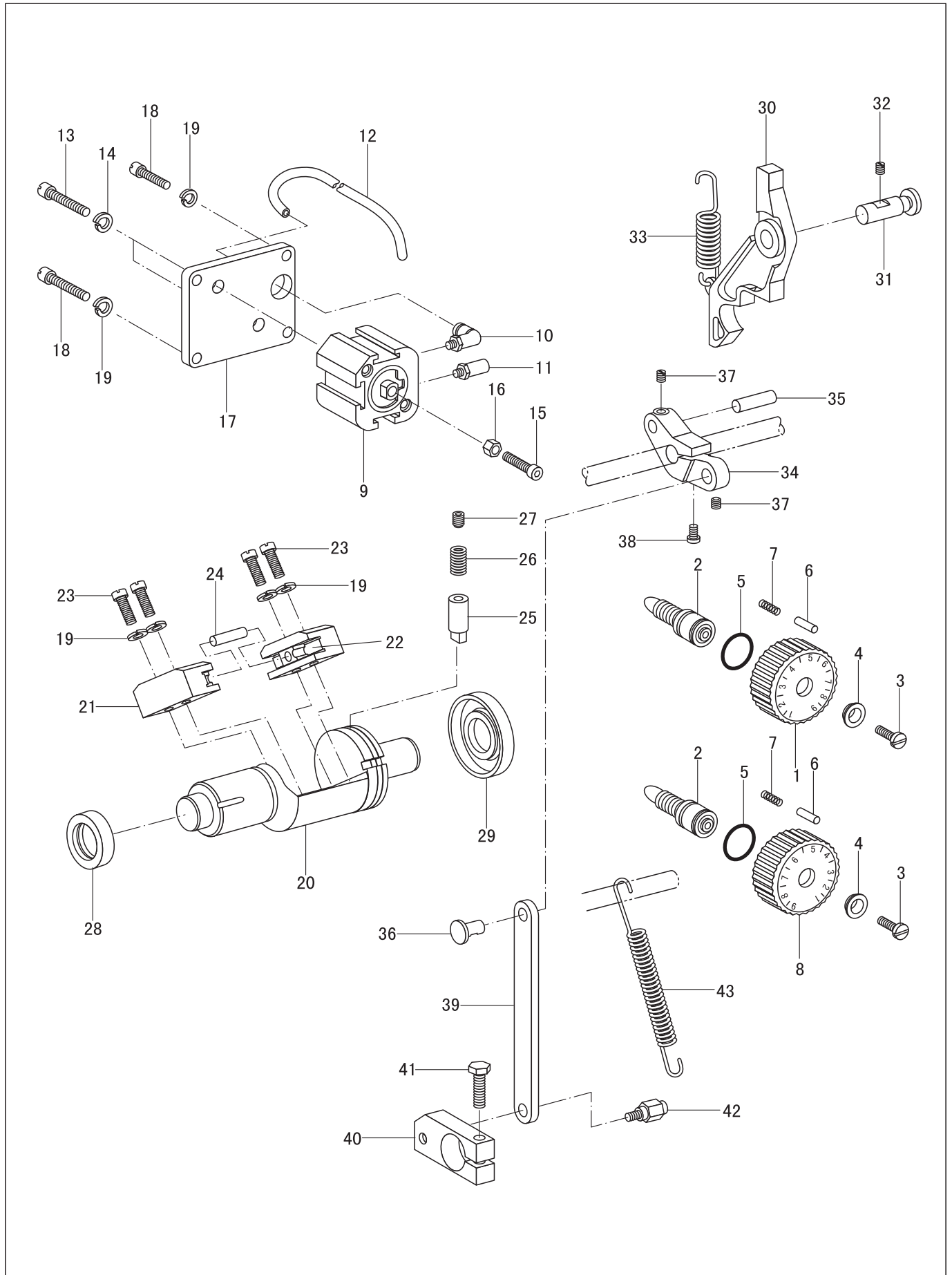
6. Presser bar mechanism



6. Presser bar mechanism

NO.	PARTS NO.	PARTS NAME	QTY		REMARK
			TW1-898	TW1-898-D2	
1	93WF6-001	Bushing A, P-foot lifter shaft	1	1	L=400
2	93WF6-002	Bushing B	1	1	
3	93WF6-003	Bushing C, P-foot lifter shaft	1	1	
4	93WF6-004	Bushing D	1	1	
5	93WF6-021	Bushing, P-bar	1	1	
6	93WF6-030	Set screw	1	1	
7	93WF6-005	Pressure adjusting dial	1	1	
8	93WF6-022	Pressure adjusting plate assy	1	1	
9	93WF6-006	Felt	1	1	
10	93WF6-023	Pin	1	1	
11	93WF6-007	Retaining ring	1	1	
12	93WF6-024	P-foot lifter connection assy	1	1	
13		Oil wick	1	1	
14	93WF6-025	Pin	1	1	GB/T 879.1 3×8
15	93WF2-015	Set screw	1	1	
16	93WF6-026	Presser bar	1	1	
17	93WF6-027	Shaft, presser bar spring	1	1	
18		Pin	2	2	
19	93WF6-008	Presser spring	1	1	
20	93WF6-009	Collar	1	1	
21	93WF6-029	Spring support, U	1	1	
22	93WF6-028	Spring support, D	1	1	
23	35WF4-005	Retaining ring	1	1	
24	93WF6-032	Presser bar lifter shaft	1	1	GB/T 6172 M6 GB 859 6
25	93WF6-010	Set screw collar	2	2	
26	93WF2-008	Set screw	2	2	
27	93WF6-034	Knee lifter arm, U	1	1	
28	93WF6-035	Bolt	1	1	
29	93WF6-036	Spring	1	1	
30		K-lifter connecting bar assy			
31	93WF6-038	Knee lifter connecting bar	1	1	
32	93WF6-011A	Link ball	2	2	
33		Nut	5	5	
34		Retaining ring	2	2	
35	93WF6-041	Presser bar lifter cam, U	1	1	
36	93WF6-042	Bolt	2	2	
37	93WF6-043	Presser bar lifter cam, D	1	1	
38	93WF6-013	Shoulder screw	1	1	
39	93WF6-014	Washer	1	1	
40	93WF6-044	Washer	1	1	
41	93WF6-015	Washer	1	1	
42	93WF6-016	Presser lifter bar	1	1	
43	93WF6-017	Lever grip	1	1	
44	93WF6-045	Knee lifter shaft assy	1	1	
45	93WF6-046	Knee lifter shaft	1	1	
46	93WF6-018	Needle roller	1	1	
47	93WF6-019	Retaining ring	1	1	
48	93WF6-047	Knee lifter arm	1	1	
49	93WF6-020	Bolt	1	1	

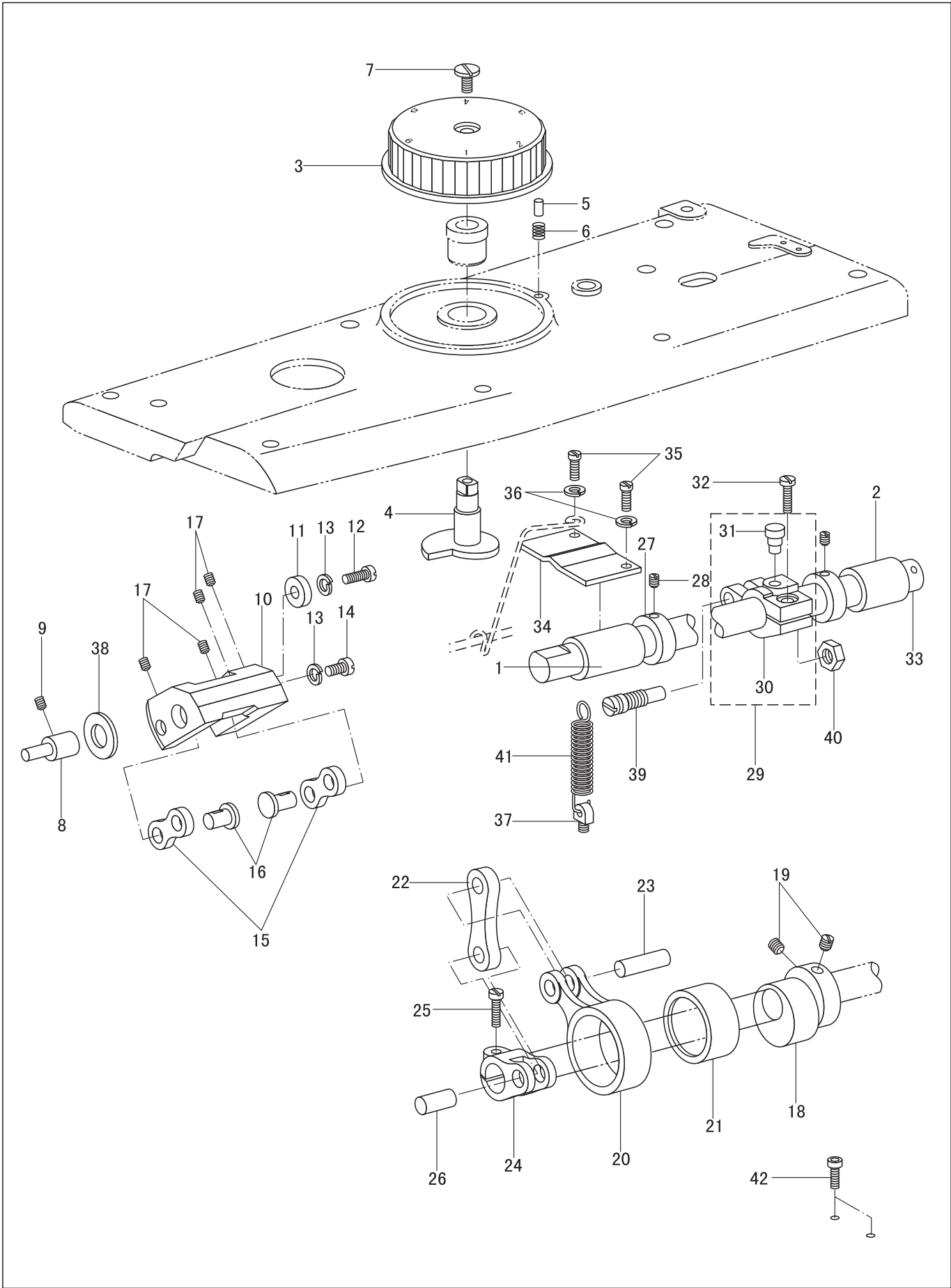
7. Feed mechanism



7. Feed mechanism

NO.	PARTS NO.	PARTS NAME	QTY		REMARK
			TW1-898	TW1-898-D2	
1	93WF7-001	Feed adjusting dial, U	1	1	
2	93WF7-005	Adjusting screw	1	2	
3	93WF7-002	Screw	1	2	
4	36T5-007D4	Bushing	1	2	
5	124T5-00A3	O ring	1	2	
6	93WF7-006	Positioning pin	1	2	
7	21WF3-046	Spring, compression	1	2	
8	93WF7-003	Feed adjusting dial, D	—	1	
9	93WF7-007	Cylinder	—	1	SDA25×10 SU045
10	93WF7-008	Joint	—	1	PL4-M5
11	93WF7-009	Silencer	—	1	BSLM-M5
12		Tube	—	1	L=1000
13	93WF7-010	Bolt	—	2	
14		Washer	—	2	GB 955 6
15	93WF3-005	Bolt	—	1	
16		Nut	—	1	GB/T 6172 M6
17	93WF7-013	Setting plate	—	1	
18	93WF7-014	Bolt	—	4	
19		Washer	—	8	GB 859 5
20	93WF7-015	Roller	1	1	
21	93WF7-016	Guide rail	2	2	
22	93WF7-017	Guide rail	2	2	
23	93WF1-029	Bolt	4	4	
24	93WF7-018	Pin	1	1	
25	93WF7-019	Cylinder guide pin	1	1	
26	93WF7-020	Spring	1	1	
27		Set screw	1	1	GB/T 77 M10×10
28	93WF7-022	Oil seal, front	1	1	20×30×7
29	93WF7-023	Oil seal, back	1	1	20×47×7
30	93WF7-024	Feed adjustment arm	1	1	
31	93WF7-025	Pin	1	1	
32	93WF1-027	Set screw	1	1	
33	93WF7-026	Spring	1	1	
34	93WF7-027	Feed adjusting lever	1	1	
35	93WF7-004	Needle roller	1	1	
36	93WF7-028	Link pin	1	1	
37	93WF7-029	Set screw	2	2	
38		Screw	1	1	GB/T 65 M5×25
39	93WF7-031	Feed adjusting connection rod	1	1	
40	93WF7-032	Connecting block	1	1	
41	93WF7-033	Bolt	1	1	
42	93WF7-034	Pin screw	1	1	
43	93WF7-035	Spring	1	1	

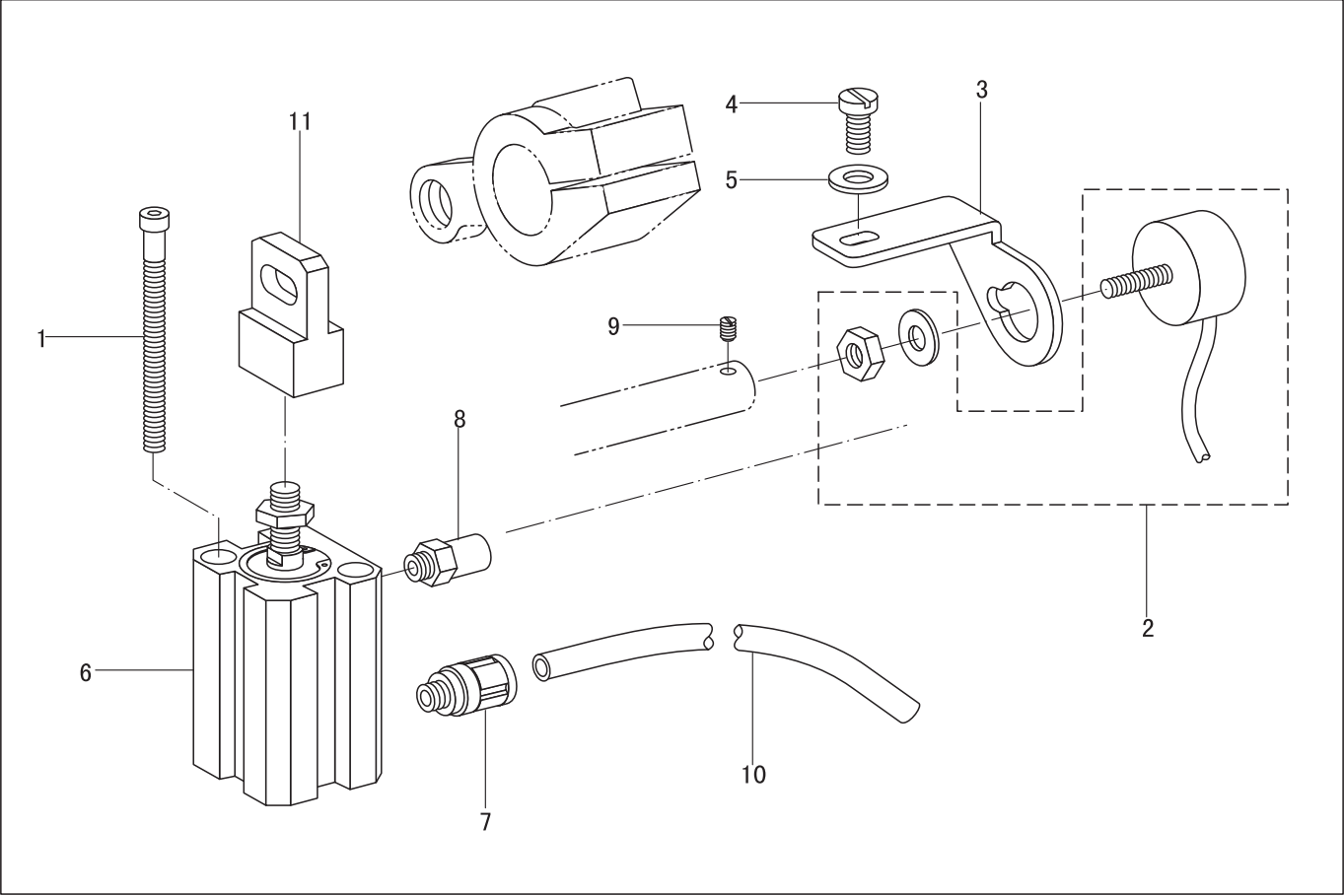
8. Presser foot adjusting mechanism



8. Presser foot adjusting mechanism

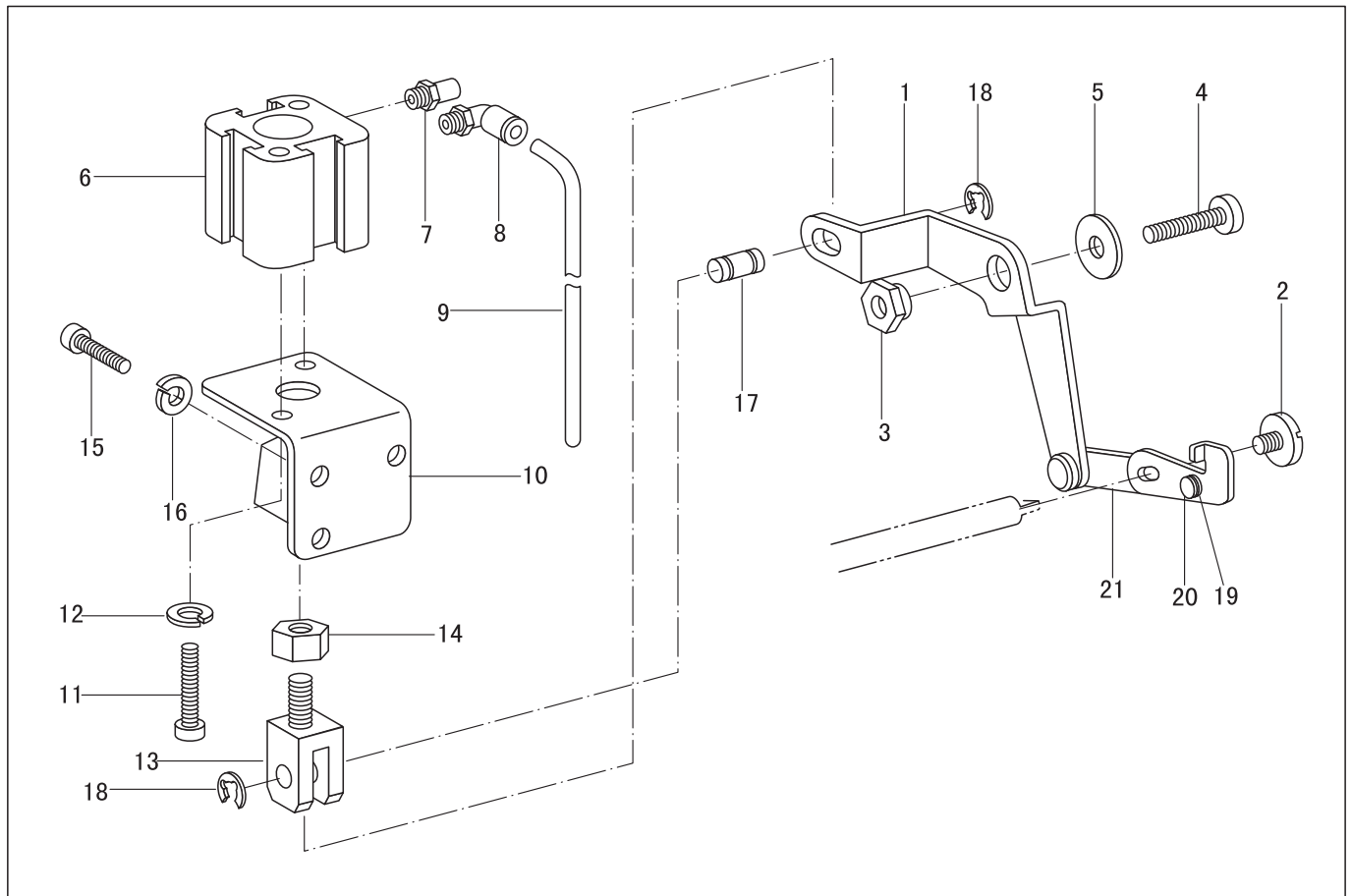
NO.	PARTS NO.	PARTS NAME	QTY		REMARK
			TW1-898	TW1-898-D2	
1	93WF8-005	Bushing, adjusting shaft	1	1	GB 859 5
2	93WF5-007	Bushing	1	1	
3	93WF8-001	Dial	1	1	
4	93WF8-006	Dial cam	1	1	
5	93WF8-007	Dial pin	1	1	
6	93WF8-002	Spring	1	1	
7	302395	Set screw	1	1	
8	93WF8-009	Support pin	1	1	
9	93WF5-030	Set screw	1	1	
10	93WF8-010	Adjusting bracket	1	1	
11	93WF8-011	Adjusting bracket collar	1	1	
12	93WF1-026	Bolt	1	1	
13		Washer, spring	2	2	HK3016 30×37×16
14	93WF8-037	Bolt	1	1	
15	93WF8-013	Link assy	2	2	
16	93WF8-014	Link pin	2	2	
17	93WF8-015	Set screw	4	4	
18	93WF8-016	Inner presser cam	1	1	
19	93WF1-027	Set screw	2	2	
20	93WF8-017	Link	1	1	
21	93WF8-018	Needle bearing	1	1	
22	93WF8-019	Link	1	1	
23	93WF8-020	Pin	1	1	
24	93WF8-021	Connecting crank	1	1	GB/T 80 M5×5
25	93WF6-042	Bolt	1	1	
26	93WF8-022	Pin	1	1	
27	93WF8-023	Collar	2	2	
28	93WF7-029	Set screw	2	2	
29	93WF8-025	Connecting lever assy	1	1	
30	93WF8-027	Connecting lever	1	1	
31	93WF8-028	Pin	1	1	
32	93WF3-005	Bolt	1	1	
33	93WF8-029	Adjusting shaft	1	1	
34	93WF8-030	Support plate	1	1	GB 859 4
35	93WF8-031	Bolt	2	2	
36		Washer	2	2	
37	93WF8-003	Support screw	1	1	
38	93WF8-004	Felt	1	1	
39	93WF8-033	Spring hook	1	1	
40		Nut	1	1	
41	117WF8-001	Spring	1	1	
42	93WF8-036	Bolt	2	—	

9. Alternating presser foot lifter mechanism



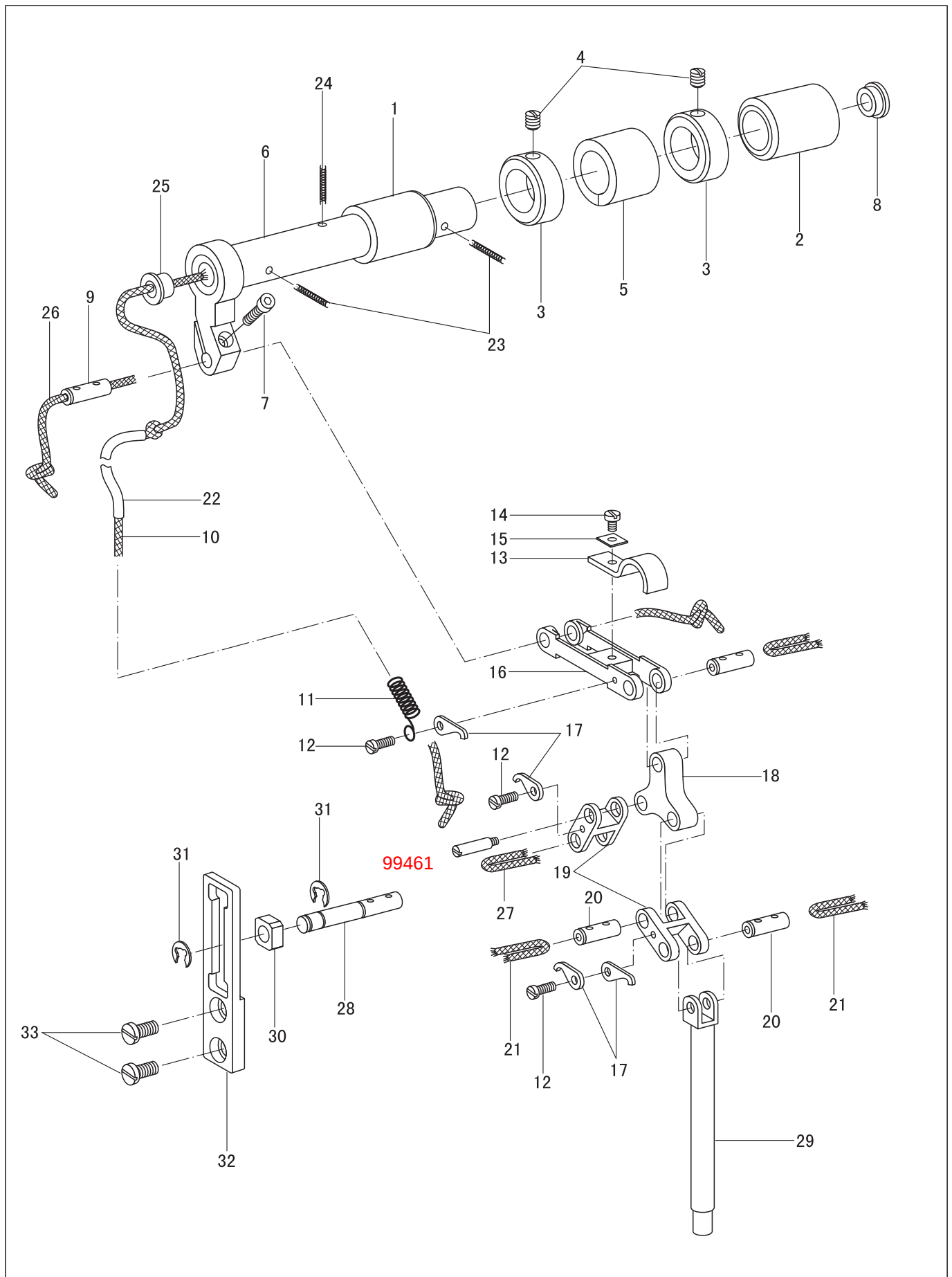
NO.	PARTS NO.	PARTS NAME	QTY	REMARK
			TW1-898-D2	
1	93WF9-002	Bolt	1	GB/T 70.1 M4×6 GB/T 97.1 4 SDA16×25 ALP4-M5 BSL-M5 GB/T 70.1 M3×45 L=1000
2	93WF9-003	Potentiometer assy	1	
3	93WF9-001	Setting plate	1	
4		Bolt	1	
5		Washer	1	
6	93WF9-004	Cylinder	1	
7	93WF9-005	Joint	1	
8	93WF7-009	Silencer	2	
9		Set screw	1	
10		Air tube	1	
11	93WF9-007	Knuckle	1	

10. Quick reverse mechanism



NO.	PARTS NO.	PARTS NAME	QTY	REMARK
			TW1-898-D2	
1	93WF10-003	Cylinder connection assy	1	SDA25×15 SU046
2	2KT3-005	Screw	1	
3	62WF5-025	Stud	1	
4	21WF2-048	Screw	1	
5	62WF5-026	Washer	1	L=840
6	93WF10-004	Cylinder	1	
7	93WF7-009	Silencer	1	
8	93WF7-008	Joint	1	
9		Air tube, 4mm	1	GB 93. 6
10	93WF10-001	Setting plate	1	
11	93WF10-006	Bolt	2	
12		Washer, spring	2	
13	93WF10-008	Knuckle	1	GB/T6172 M6
14		Nut	1	
15	93WF7-014	Bolt	3	
16		Washer, spring	3	
17	93WF10-002	Coupling pin	1	GB/T 859 5
18		Retaining ring	2	
19	62WF5-024D	Nylon washer	2	
20	62WF5-024C	Pin	2	
21	62WF5-024B	Link rod, reverse stitching lever	1	GB/T 896 4

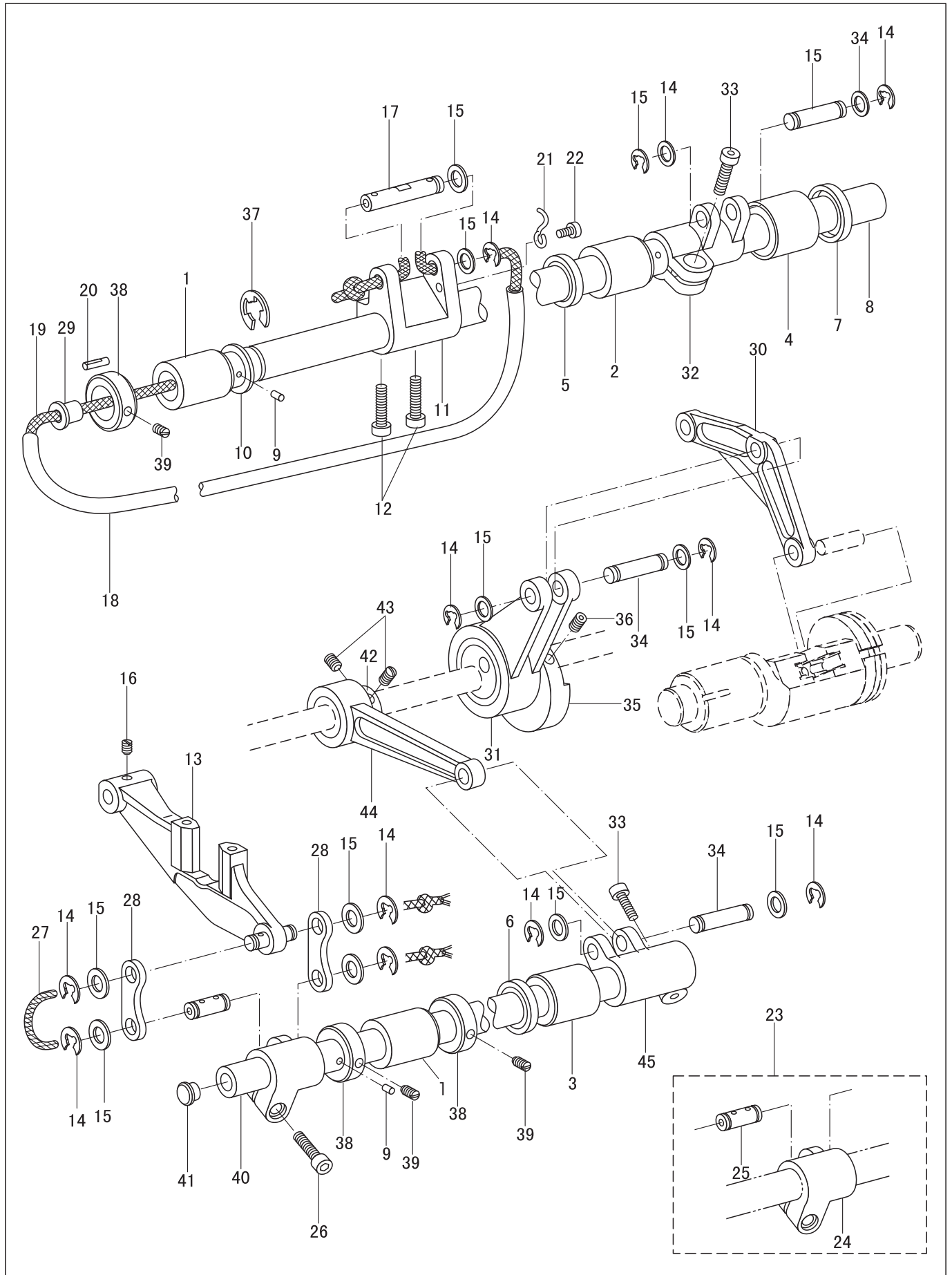
11. Upper feed mechanism



11. Upper feed mechanism

NO.	PARTS NO.	PARTS NAME	QTY		REMARK
			TW1-898	TW1-898-D2	
1	93WF5-007	Bushing, F	1	1	L235
2	93WF11-001	Bushing, B	1	1	
3	93WF8-023	Collar	2	2	
4	93WF7-029	Set screw	2	2	
5	93WF11-002	Sponge	1	1	
6	93WF11-008	Shaft assy	1	1	
7	93WF8-031	Bolt	1	1	
8	93WF11-003	Rubber cap	1	1	
9	93WF11-009	Connecting pin	1	1	
10		Oil wick	1	1	
11	93WF11-010	Tube guide	1	1	
12	93WF11-011	Bolt	3	3	
13	93WF11-004	Leather	1	1	
14	93WF8-036	Bolt	1	1	
15	93WF11-013	Washer	1	1	
16	93WF11-014	Connection	1	1	
17	93WF11-005	Stopper claw	4	4	
18	93WF11-015	Presser connection plate	1	1	
19	93WF11-016	Presser bar connection	2	2	
20	93WF11-009	Connection pin	3	3	
21		Oil wick	1	1	L=50
22		Oil tube	1	1	L=75
23		Oil wick	1	1	L=75
24		Felt	1	1	L=20
25	93WF3-010	Rubber cap	1	1	L=80
26		Oil wick	1	1	
27		Oil wick	1	1	
28	93WF11-019	Inner presser bar	1	1	
29	93WF11-020	Presser bar	1	1	
30	93WF11-021	Slide block	1	1	
31	93WF11-006	Retaining ring	2	2	
32	93WF11-022	Steady plate	1	1	
33	13WF7-015	Screw	2	2	

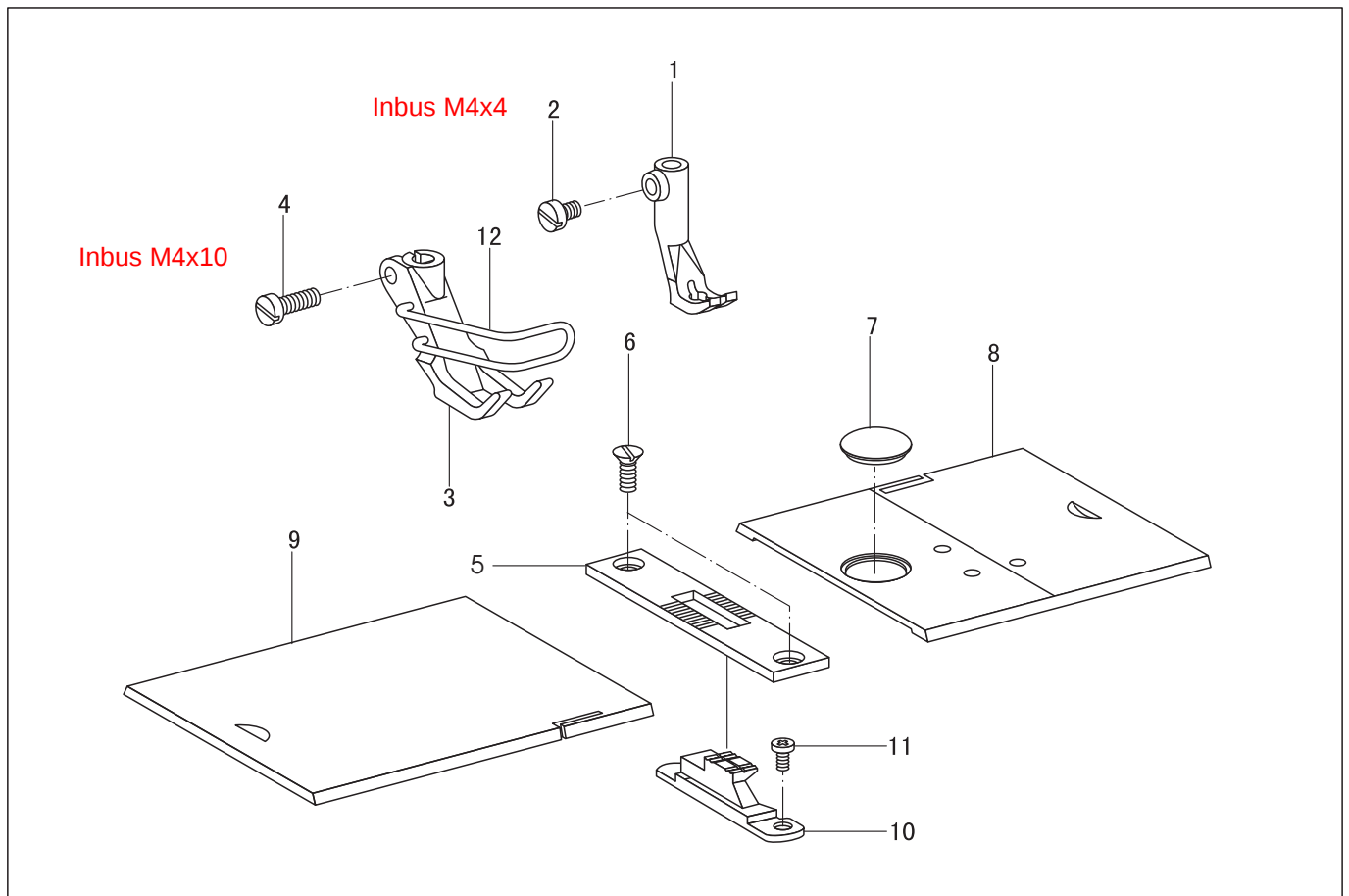
12. Lowerfeed shaft mechanism



12. Lower feed shaft mechanism

NO.	PARTS NO.	PARTS NAME	QTY		REMARK
			TW1-898	TW1-898-D2	
1	93WF5-007	Feed shaft bushing, F	2	2	
2	93WF12-001	Feed shaft bushing, M	1	1	
3	93WF12-002	Bushing, F	1	1	
4	93WF12-003	Feed shaft bushing	1	1	
5	93WF12-008	Oil seal	1	1	15×24×7
6	93WF12-008	Oil seal	1	1	15×24×7
7	93WF12-010	Oil seal	1	1	15×24×7
8	93WF12-011	Feed shaft	1	1	
9		Felt	2	2	
10	93WF12-004	Ring	1	1	
11	93WF12-012	Feed arm	1	1	
12	93WF10-006	Bolt	2	2	
13	93WF12-013	Feed bracket assy	1	1	
14	266097	Retaining ring	11	11	
15	93WF12-005	Washer	12	12	
16	93WF12-035	Set screw	1	1	
17	93WF12-015	Pin	1	1	
18		Oil tube	1	1	L=200
19		Oil wick	1	1	L=300
20		Felt	1	1	3×18
21	93WF12-006	Tube holder	1	1	
22		Bolt	1	1	GB/T 70.1 M4×6
23	93WF12-016	Feed connection arm assy	1	1	
24	93WF12-017A	Feed connection arm	1	1	
25	93WF12-018B	Pin	1	1	
26	93WF12-019	Bolt	1	1	
27		Oil wick	1	1	L=110
28	93WF12-020	Feed link assy	1	1	
29	93WF3-010	Rubber cap	1	1	
30	93WF12-022	Back cylinder connection	1	1	
31	93WF12-023	Connection rod assy, L-feed	1	1	
32	93WF12-034	Feed shaft arm	1	1	
33	93WF7-012	Bolt	2	2	
34	93WF12-026	Pin	3	3	
35	93WF12-027	Lower feed cam	1	1	
36	93WF1-027	Set screw	2	2	
37	93WF12-007	Retaining ring	1	1	
38	93WF8-023	Collar, adjust shaft	3	3	
39	93WF7-029	Set screw	3	3	
40	93WF12-029	Adjust-shaft	1	1	
41	93WF11-003	Rubber cap	1	1	
42	93WF12-031	Feed cam	1	1	
43	93WF2-008	Set screw	2	2	
44	93WF12-033	Feed rod	1	1	
45	93WF12-034	Feed shaft arm	1	1	

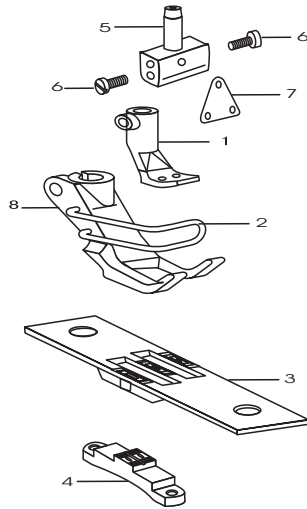
13. Needle plate, presser foot



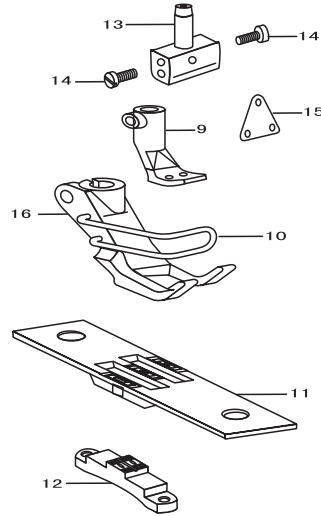
NO.	PARTS NO.	PARTS NAME	QTY		REMARK
			TW1-898	TW1-898-D2	
1	93WF13-003	Inner presser foot	1	1	
2	93WF13-004	Bolt	1	1	
3	93WF13-005	Walking foot assy	1	1	
4	93WF13-006	Bolt	1	1	
5	93WF13-007	Needle plate	1	1	
6	93WF13-001	Screw	2	2	
7	21WF4-059	Bobbin window	1	1	
8	93WF13-008	Slide plate, R	1	1	
9	93WF13-009	Slide plate, L	1	1	
10	93WF13-010	Feed dog	1	1	
11	93WF13-002	Screw	2	2	
12	93WF13-011	Finger guard	1	1	

13. Needle plate, presser foot (TW2-898-D2)

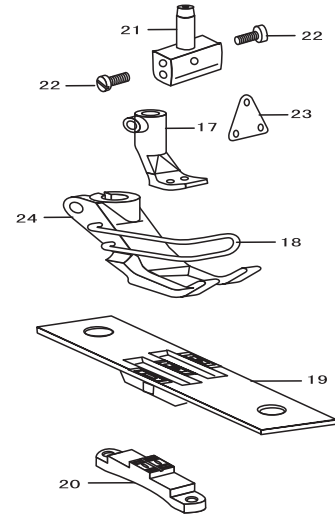
Gauge size 3mm



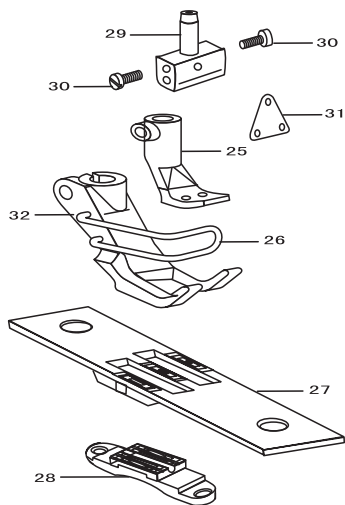
Gauge size 4mm



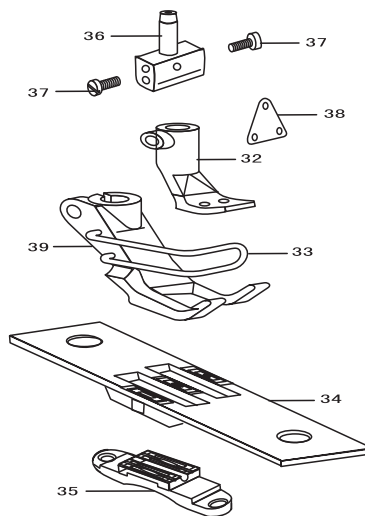
Gauge size 6mm



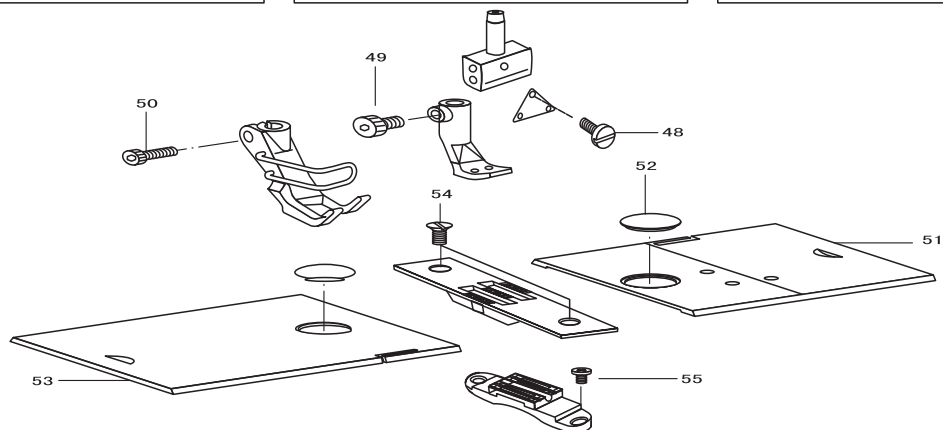
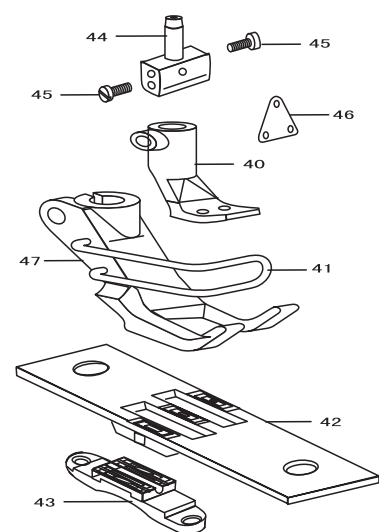
Gauge size 8mm



Gauge size 10mm



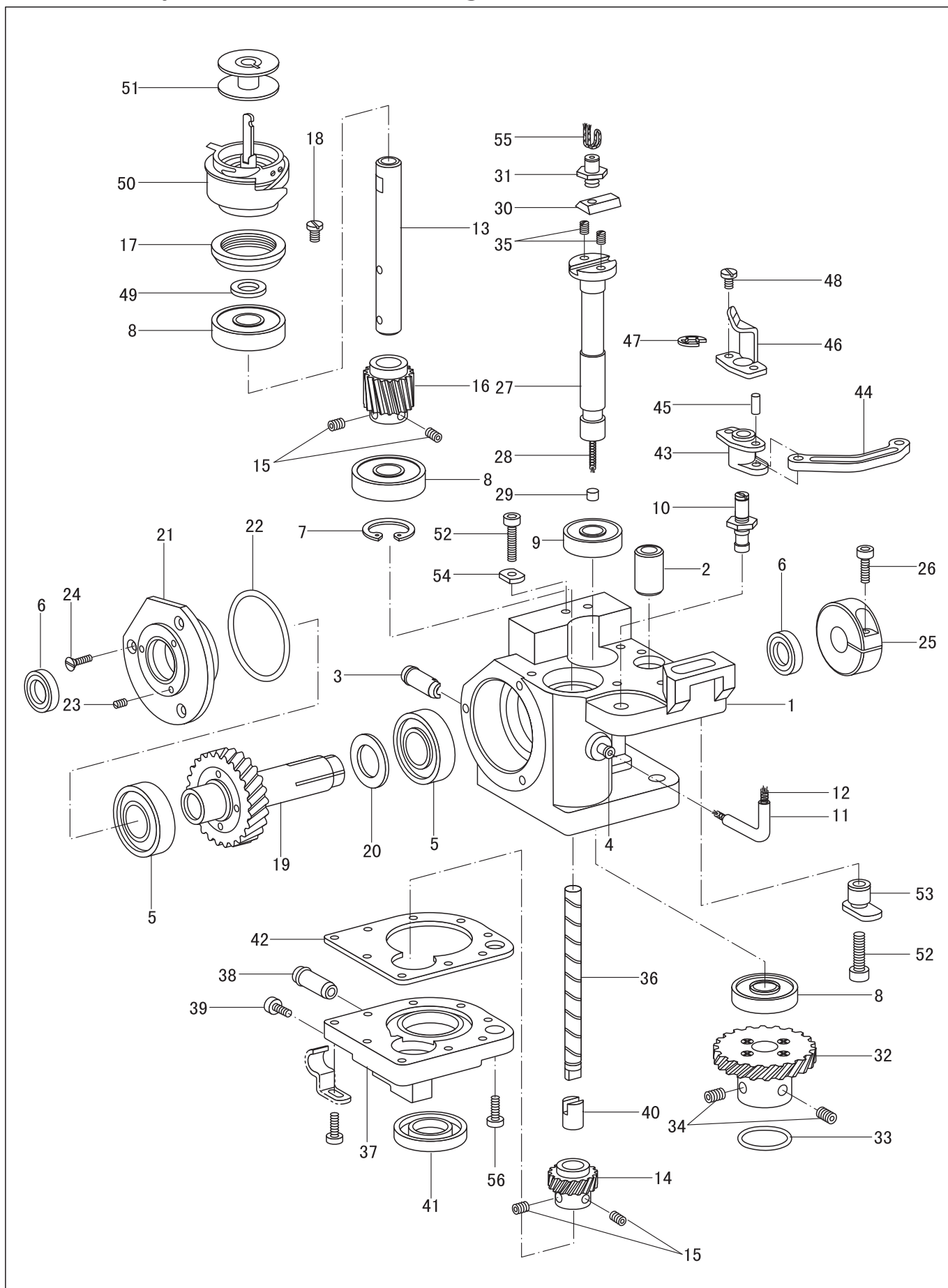
Gauge size 12mm



13. Needle plate, presser foot (TW2-898-D2)

NO.	PARTS NO.	PARTS NAME	QTY	REMARK
			TW2-898-D2	
1	193WF13-001a	Inner presser foot (3)	1	
2	193WF13-006a	Finger guard	1	
3	193WF13-003a	Needle plate (3)	1	
4	193WF13-005a	Feed dog (3)	1	
5	193WF5-001a	Needle clamp (3)	1	
6	179WF5-004	Screw	2	
7	193WF5-002a	Thread guide	1	
8	193WF13-002a	Walking foot (3-4)	1	
9	193WF13-001b	Innder presser foot (4)	1	
10	193WF13-006a	Finger guard	1	
11	193WF13-003b	Needle plate	1	
12	193WF13-005b	Feed dog (4)	1	
13	193WF5-001b	Needle clamp (4)	1	
14	179WF5-004	Screw (4)	2	
15	193WF5-002a	Thread guide	1	
16	193WF13-002a	Walking foot (3-4)	1	
17	193WF13-001c	Inner foot (6)	1	
18	193WF13-006a	Finger guard	1	
19	193WF13-003c	Needle plate (6)	1	
20	193WF13-005c	Feed dog (6)	1	
21	193WF5-001c	Needle clamp (6)	1	
22	179WF5-004	Screw	2	
23	193WF5-002a	Thread guide	1	
24	193WF13-002b	Walking foot (6)	1	
25	193WF13-001d	Inner foot (8)	1	
26	193WF13-006b	Finger guard	1	
27	193WF13-003d	Needle plate (8)	1	
28	193WF13-005d	Feed dog (8)	1	
29	193WF5-003d	Needle clamp (8)	1	
30	179WF5-004	Screw	2	
31	193WF5-002a	Thread guide	1	
32	193WF13-001e	Inner foot (10)	1	
33	193WF13-006b	Finger guard	1	
34	193WF13-003d	Needle plate (10)	1	
35	193WF13-005e	Feed dog (10)	1	
36	193WF5-001d	Needle clamp (10)	1	
37	179WF5-004	Screw	2	
38	193WF5-002a	Thread guide	1	
39	193WF13-002d	Walking foot (10)	1	
40	193WF13-001f	Inner foot (12)	1	
41	193WF13-006b	Finger guard	1	
42	193WF13-003f	Needle plate (12)	1	
43	193WF13-005f	Feed dog (12)	1	
44	193WF5-001f	Needle clamp (12)	1	
45	179WF5-004	Screw	2	
46	193WF5-002b	Thread guide	1	
47	193WF13-002e	Walking foot (12)	1	
48	16WF1-006	Screw	1	
49	93WF13-004	Screw	1	
50	93WF13-006	Screw	1	
51	93WF13-008	Sliding plate (R)	1	
52	21WF4-059	Window plate	2	
53	193WF13-004	Sliding plate (L)	1	
54	93WF13-001	Screw	2	
55	93WF13-002	Screw	2	

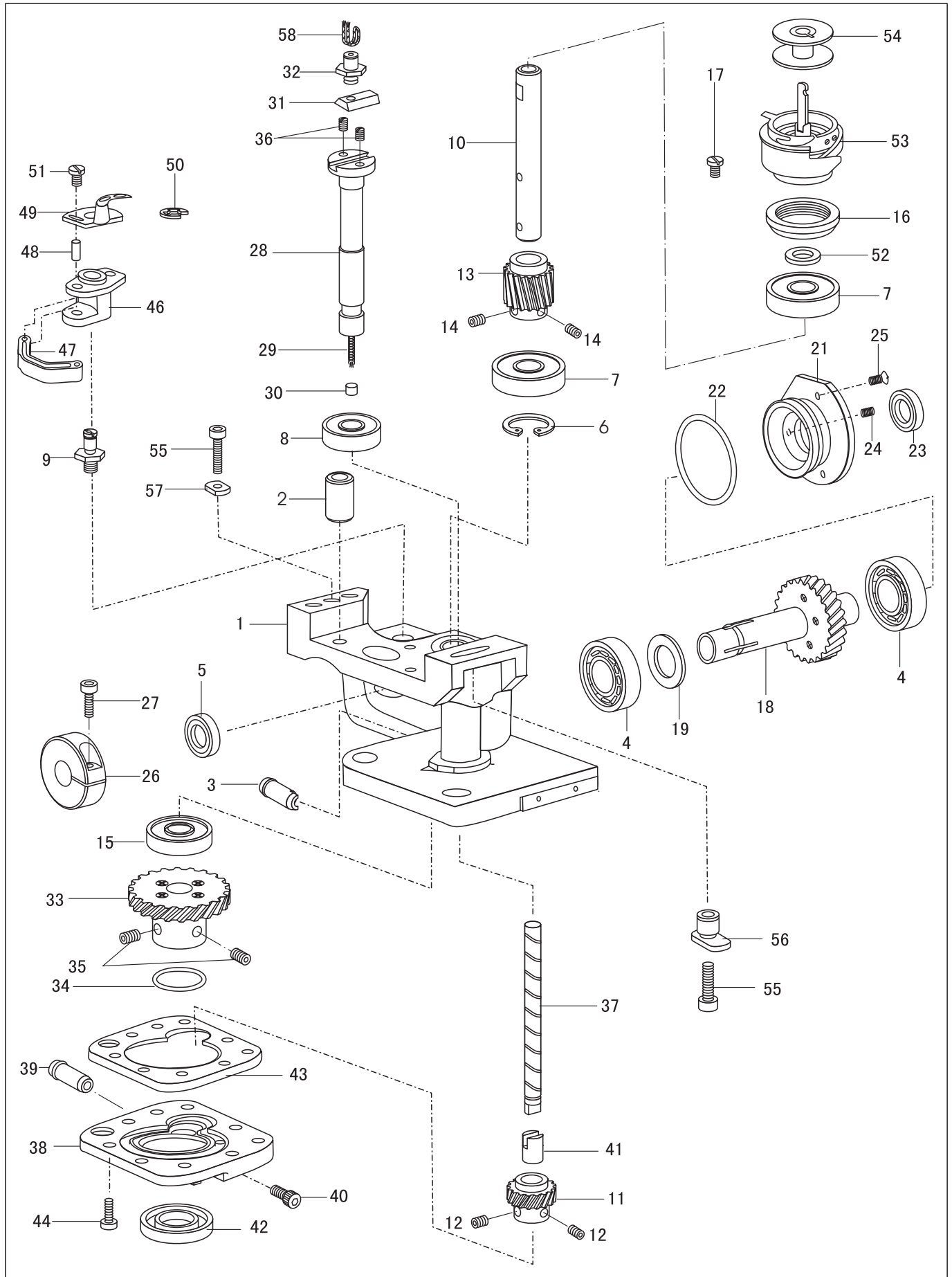
14. Rotary hook shaft timing mechanism



14. Rotary hook shaft timing mechanism

NO.	PARTS NO.	PARTS NAME	QTY		REMARK
			TW1-898	TW1-898-D2	
1	93WF14-012	Horizontal hook base	1	1	
2	93WF14-013	Bushing	1	1	
3	93WF14-001	Drain pipe	1	1	
4	93WF3-001	Pipe	1	1	
5	93WF14-014	Ball bearing	2	2	16002 15×32×8
6	93WF14-015	Oil seal	2	2	15×21×3
7		Retaining ring	1	1	GB893.1 26
8	93WF14-017	Ball bearing	3	3	6000 10×26×8
9	93WF14-018	Bearing	1	1	6002Z 10×26×8
10	93WF14-019	Pin	1	1	
11		Oil tube	1	1	
12		Oil wick	1	1	
13	93WF14-020	Shaft, rotary hook	1	1	
14	93WF14-002	Gear, OP-shaft	1	1	
15	93WF7-029	Set screw	4	4	
16	93WF14-003	Gear	1	1	
17	93WF14-021	Supporter	1	1	
18	496512	Screw	2	2	
19	93WF14-047	Gear assy	1	1	
20	93WF14-023	Washer	1	1	
21	93WF14-046	Lower shaft holder	1	1	
22	93WF14-005	O ring	1	1	
23		Set screw	3	3	GB/T77 M4×5
24		Screw	3	3	GB/T68 M4×4
25	93WF14-025	Collar	1	1	
26	93WF3-005	Bolt	1	1	
27	93WF14-026	Opener shaft	1	1	
28		Oil wick	1	1	L=80
29	93WF14-006	Rubber cap, 4.2mm	1	1	
30	93WF14-027	Adjusting guide rail	1	1	
31	93WF14-028	Adjusting pin	1	1	
32	93WF14-048	Gear assy	1	1	
33	33T2-30-A	O ring	1	1	
34	93WF8-015	Set screw	2	2	
35	93WF14-030	Set screw	2	2	
36	93WF14-031	Lubrication shaft	1	1	
37	93WF14-032	Oil tank, hook base	1	1	
38	93WF1-017	Pipe	1	1	
39	93WF8-036	Bolt	1	1	
40	93WF14-033	Bushing	1	1	
41	93WF14-034	Oil seal	1	1	22×32×7
42	93WF14-008	Sheet packing	1	1	
43	93WF14-035	Setting bracket, opener	1	1	
44	93WF14-036	Opener arm	1	1	
45	93WF14-037	Pin	1	1	
46	93WF14-038	Opener	1	1	
47	93WF14-009	Retaining ring, 4mm	1	1	
48	13WF1-015	Screw	2	2	
49	93WF14-040	Washer	1	1	t1=0.3/t2=0.4/t3=0.5/t4=0.2
50	93WF14-041	Rotary hook assy	1	1	
51	93WF14-042	Bobbin	1	1	
52	93WF14-043	Bolt	2	2	
53	93WF14-044	Eccentric collar	1	1	
54	93WF14-045	Washer	1	1	
55		Oil wick	1	1	L=50
56	93WF13-006	Bolt	9	9	

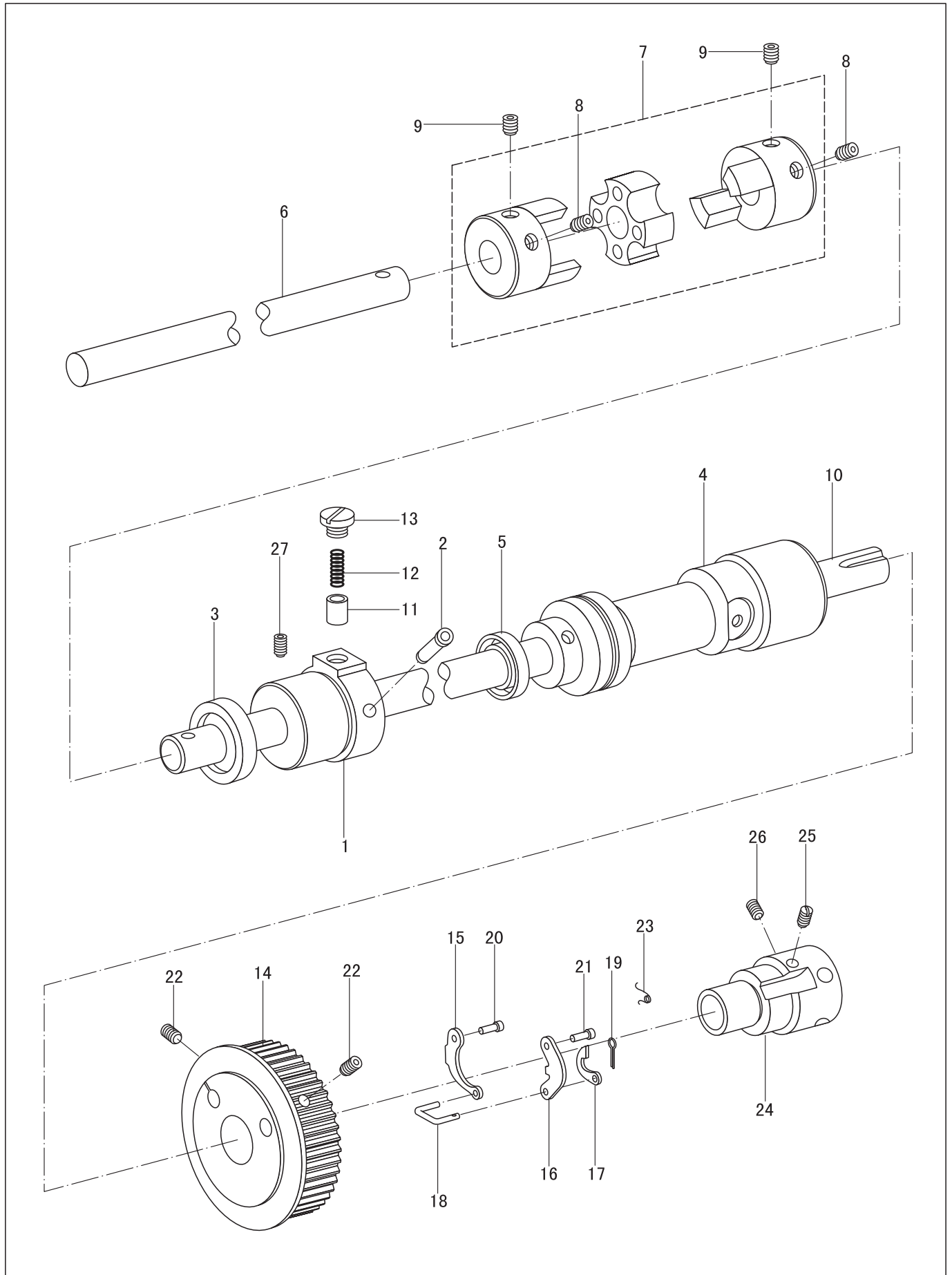
14. Rotary hook shaft timing mechanism (TW2-898-D2)



14. Rotary hook shaft timing mechanism(TW2-898-D2)

NO.	PARTS NO.	PARTS NAME	QTY	REMARK
			TW2-898-D2	
1	193WF14-001	Horizontal hook base (L)	1	
2	93WF14-013	Bushing	1	
3	93WF14-001	Drain pipe	1	
4	93WF14-014	Ball bearing	2	16002 15×32×8
5	93WF14-015	Oil seal	1	15×21×3
6		Retaining ring	2	GB893.1 26
7	93WF14-017	Ball bearing	2	6000 10×26×8
8	193WF14-047	Bearing	1	2080900 10×22×6
9	193WF14-003	Pin	1	
10	93WF14-020	Shaft, rotary hook	1	
11	93WF14-002	Gear, OP-shaft	1	
12	93WF8-015	Set screw	2	
13	93WF14-003	Gear	1	
14	93WF7-029	Setscrew	2	
15	193WF14-048	Bearing	1	6000 10×26×6
16	93WF14-021	Supporter	1	
17	496512	Screw	2	
18	93WF14-047	Gear assy	1	
19	93WF14-023	Washer	1	
20				
21	93WF14-046	Lower shaft holder	1	
22	93WF14-005	O ring	1	
23	93WF14-015	Oil seal	1	15×21×3
24		Set screw	3	GB/T77 M4×5
25		Screw	3	GB/T68 M4×4
26	93WF14-025	Collar	1	
27	93WF3-005	Bolt	1	
28	93WF14-026	Opener shaft	1	
29		Oil wick	1	L=80
30	93WF14-006	Rubber cap, 4.2mm	1	
31	93WF14-027	Adjusting guide rail	1	
32	93WF14-028	Adjusting pin	1	
33	93WF14-048	Gear assy	1	
34	33T2-030-A	O ring	1	
35	93WF8-015	Set screw	2	
36	93WF14-030	Set screw	2	
37	93WF14-031	Lubrication shaft	1	
38	193WF14-002	Oil tank, hook base	1	
39	93WF14-001	Pipe	1	
40	93WF8-036	Bolt	1	
41	93WF14-033	Bushing	1	
42	93WF14-034	Oil seal	1	22×32×7
43	93WF14-008	Sheet packing	1	
44	93WF13-006	Bolt	9	
45				
46	93WF14-035	Setting bracket, opener	1	
47	93WF14-036	Opener arm	1	
48	93WF14-037	Pin	1	
49	93WF14-038	Opener	1	
50	93WF14-009	Retaining ring, 4mm	1	
51	13WF1-015	Screw	2	
52	93WF14-040	Washer	1	t1=0.3/t2=0.4/t3=0.5/t4=0.2
53	93WF14-041	Rotary hook assy	1	
54	93WF14-042	Bobbin	1	
55	93WF14-043	Bolt	2	
56	93WF14-044	Eccentric collar	1	
57	93WF14-045	Washer	1	
58		Oil wick	1	L=50

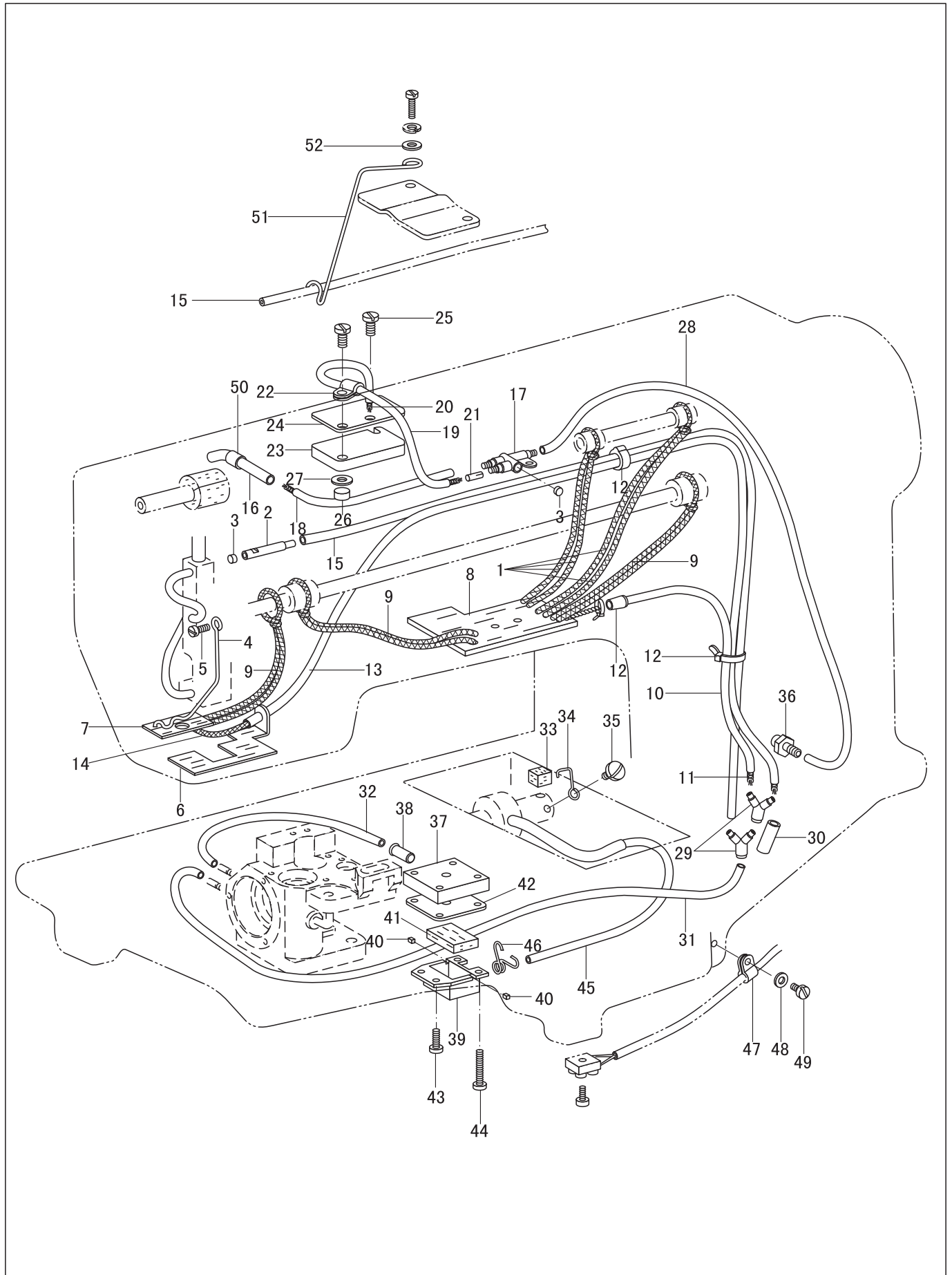
15. Lower shaft mechanism



15. Lower shaft mechanism

NO.	PARTS NO.	PARTS NAME	QTY		REMARK
			TW1-898	TW1-898-D2	
1	93WF15-006	Bushing, F; L-shaft	1	1	12×30×7
2	93WF3-001	Pipe	2	2	
3	93WF15-007	Oil seal	1	1	
4	93WF15-008	Bushing, B; L-shaft	1	1	12×22×7
5	93WF15-009	Oil seal	1	1	
6	93WF15-010	Lower shaft	1	1	
7	93WF15-001A	Lower shaft coupling assy	1	1	GB/T 91 1.2×8
	93WF15-001B	Lower shaft coupling, R			
	93WF15-001C	Lower shaft coupling, L			
8	93WF15-011	Screw	2	2	
9	93WF15-012	Screw	2	2	
10	93WF15-013	Lower shaft, B	1	1	
11	93WF15-002	Plunge	1	1	
12	93WF15-003	Spring, compression	1	1	
13	93WF15-004	Screw	1	1	
14	93WF15-005	Belt pulley assy, Lower	1	1	
15	22WF1-013	Spring, lock lever	1	1	
16	22WF1-018	Lock lever	1	1	
17	22WF1-016	Ratchet	1	1	
18	22WF1-017	Connecting link	1	1	
19		Pin	1	1	
20	22WF1-015	Lock lever shaft	1	1	
21	22WF1-019	Shaft, spring	1	1	
22	93WF8-015	Set screw	2	2	
23	22WF1-014	Spring	1	1	
24	93WF15-015	Bushing	1	1	
25	93WF15-016	Set screw	1	1	
26	93WF15-017	Set screw	1	1	
27	93WF2-015	Set screw	1	1	

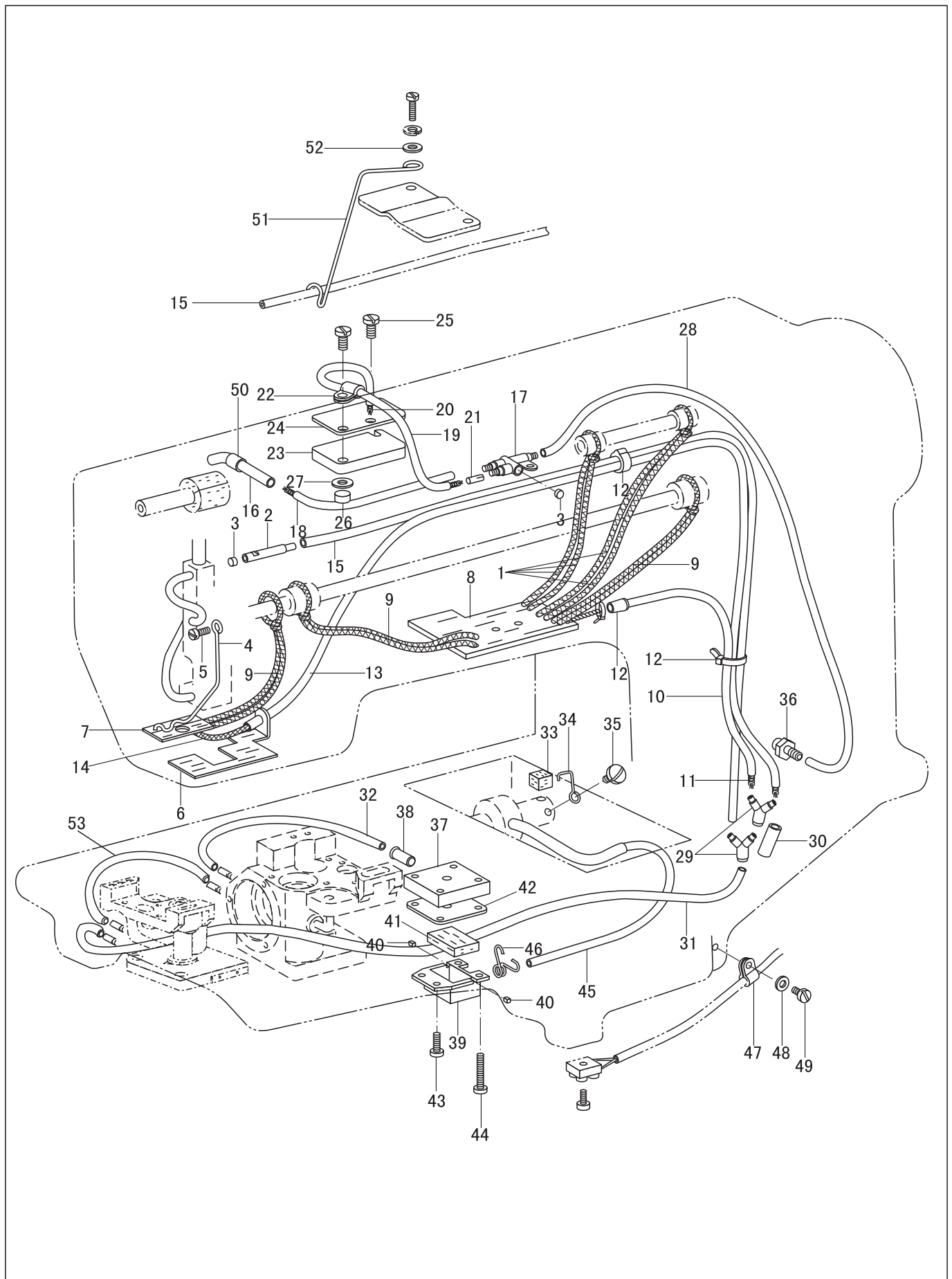
16. Lubrication mechanism



16. Lubrication mechanism

NO.	PARTS NO.	PARTS NAME	QTY		REMARK
			TW1-898	TW1-898-D2	
1		Oil wick	2	2	L=400
2	93WF16-018	Oil tube	1	1	
3	93WF14-006	Rubber cap, 4.2mm	2	2	
4	93WF16-019	Oil wick support	1	1	
5	93WF8-037	Bolt	1	1	
6	93WF16-001	Felt	1	1	
7	93WF16-002	Felt	1	1	
8	93WF16-003	Felt	1	1	
9		Oil wick	3	3	L=400
10		Oil tube	1	1	L=200
11		Oil wick	1	1	L=250
12		Tube tie	3	3	3×110
13		Oil tube	1	1	L=490
14		Oil wick	1	1	L=620
15		Oil tube	1	1	L=480
16	93WF16-004	Pipe	1	1	
17	21WF7-016	Joint	1	1	
18		Oil tube	1	1	L=185
19		Oil tube	1	1	L=150
20		Oil wick	1	1	L=220
21		Felt	1	1	3×25
22	93WF16-021	Tube clamp	1	1	
23	93WF16-005	Felt	1	1	
24	93WF16-026	Felt support	1	1	
25	13WF7-015	Screw	1	1	
26	93WF16-006	Collar	1	1	
27	375290	Washer	1	1	
28		Oil tube	1	1	L=380
29	93WF16-007	Y-joint	2	2	
30		Oil tube	1	1	L=40
31		Oil tube	1	1	L=400
32		Oil tube	1	1	L=190
33	93WF16-008	Sponge	1	1	
34	93WF16-009	Sponge support	1	1	
35	999055	Screw	1	1	
36	93WF16-010	Oil feed pipe	1	1	
37	93WF16-024	Plate, filter bracket	1	1	
38	93WF1-017	Pipe	2	2	
39	93WF16-011	Sub-tank	1	1	
40	93WF16-012	Rubber cap	2	2	
41	93WF16-013	Felt	1	1	
42	93WF16-014	Packing	1	1	
43	33T3-007	Screw	3	3	
44	93WF16-015	Screw	2	2	
45		Oil tube	1	1	L=450
46	21WF7-006	Tube clip	1	1	
47	93WF16-016	Cushion clamp	1	1	
48	93WF1-009	Washer	1	1	
49	33T3-007	Screw	1	1	
50		Oil tube	1	1	L=5
51	93WF16-017	Tube support	1	1	
52		Washer	1	1	GB/T 97.1 4

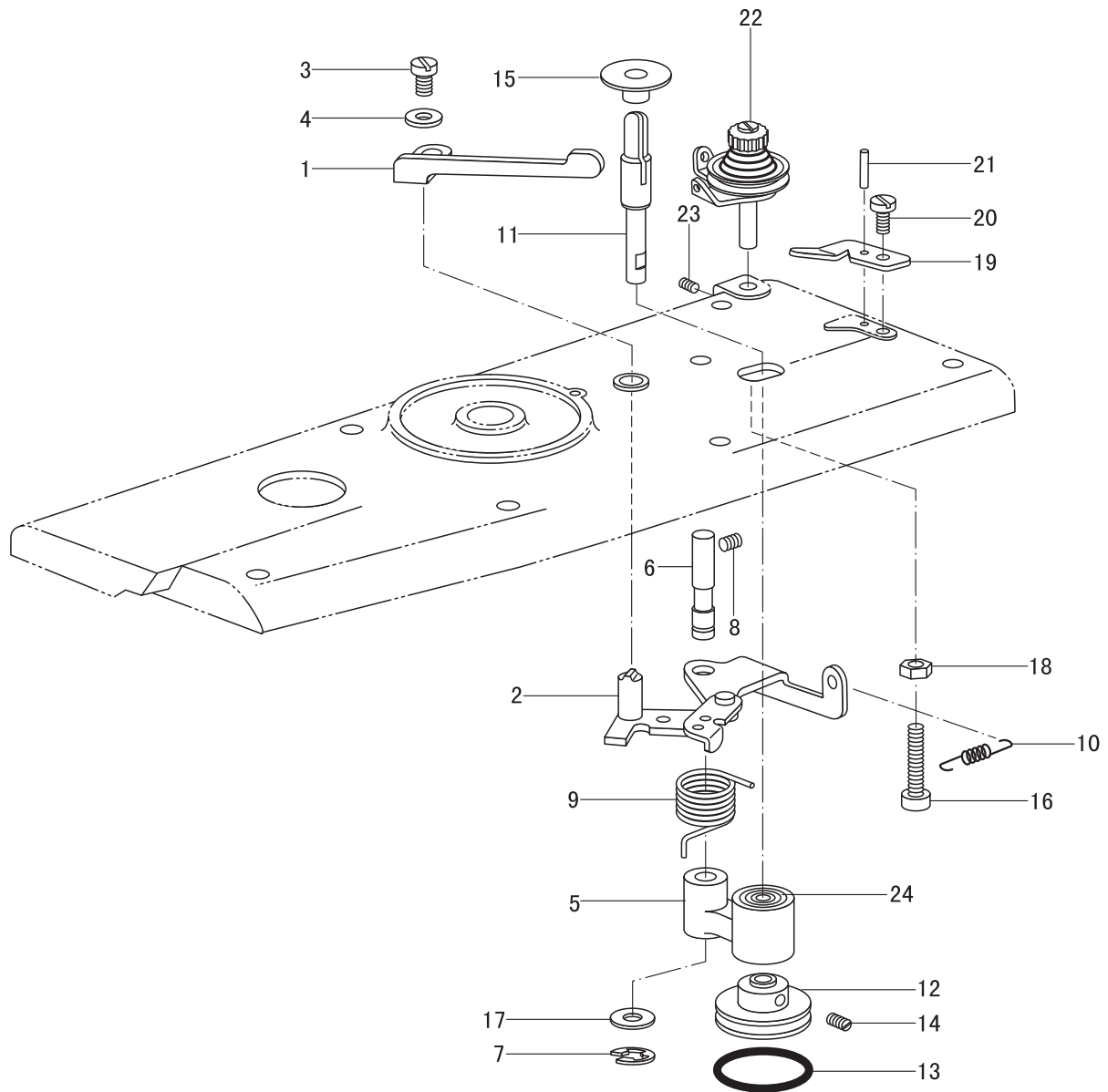
16. Lubrication mechanism (TW2-898-D2)



16. Lubrication mechanism (TW2-898-D2)

NO.	PARTS NO.	PARTS NAME	QTY	REMARK
			TW2-898-D2	
1		Oil wick	2	L=400
2	93WF16-018	Oil tube	1	
3	93WF14-006	Rubber cap, 4.2mm	2	
4	93WF16-019	Oil wick support	1	
5	93WF8-037	Bolt	1	
6	93WF16-001	Felt	1	
7	93WF16-002	Felt	1	
8	93WF16-003	Felt	1	
9		Oil wick	3	L=400
10		Oil tube	1	L=200
11		Oil wick	1	L=250
12		Tube tie	3	3×110
13		Oil tube	1	L=490
14		Oil wick	1	L=620
15		Oil tube	1	L=480
16	93WF16-004	Pipe	1	
17	21WF7-016	Joint	1	
18		Oil tube	1	L=185
19		Oil tube	1	L=150
20		Oil wick	1	L=220
21		Felt	1	3×25
22	93WF16-021	Tube clamp	1	
23	93WF16-005	Felt	1	
24	93WF16-026	Felt support	1	
25	13WF7-015	Screw	1	
26	93WF16-006	Collar	1	
27	375290	Washer	1	
28		Oil tube	1	L=380
29	93WF16-007	Y-joint	2	
30		Oil tube	1	L=40
31		Oil tube	1	L=400
32		Oil tube	1	L=190
33	93WF16-008	Sponge	1	
34	93WF16-009	Sponge support	1	
35	999055	Screw	1	
36	93WF16-010	Oil feed pipe	1	
37	93WF16-024	Plate, filter bracket	1	
38	93WF1-017	Pipe	2	
39	93WF16-011	Sub-tank	1	
40	93WF16-012	Rubber cap	2	
41	93WF16-013	Felt	1	
42	93WF16-014	Packing	1	
43	33T3-007	Screw	3	
44	93WF16-015	Screw	2	
45		Oil tube	1	L=450
46	21WF7-006	Tube clip	1	
47	93WF16-016	Cushion clamp	1	
48	93WF1-009	Washer	1	
49	33T3-007	Screw	1	
50		Oil tube	1	L=5
51	93WF16-017	Tube support	1	
52		Washer	1	GB/T 97.1 4
53		Oil tube	1	170

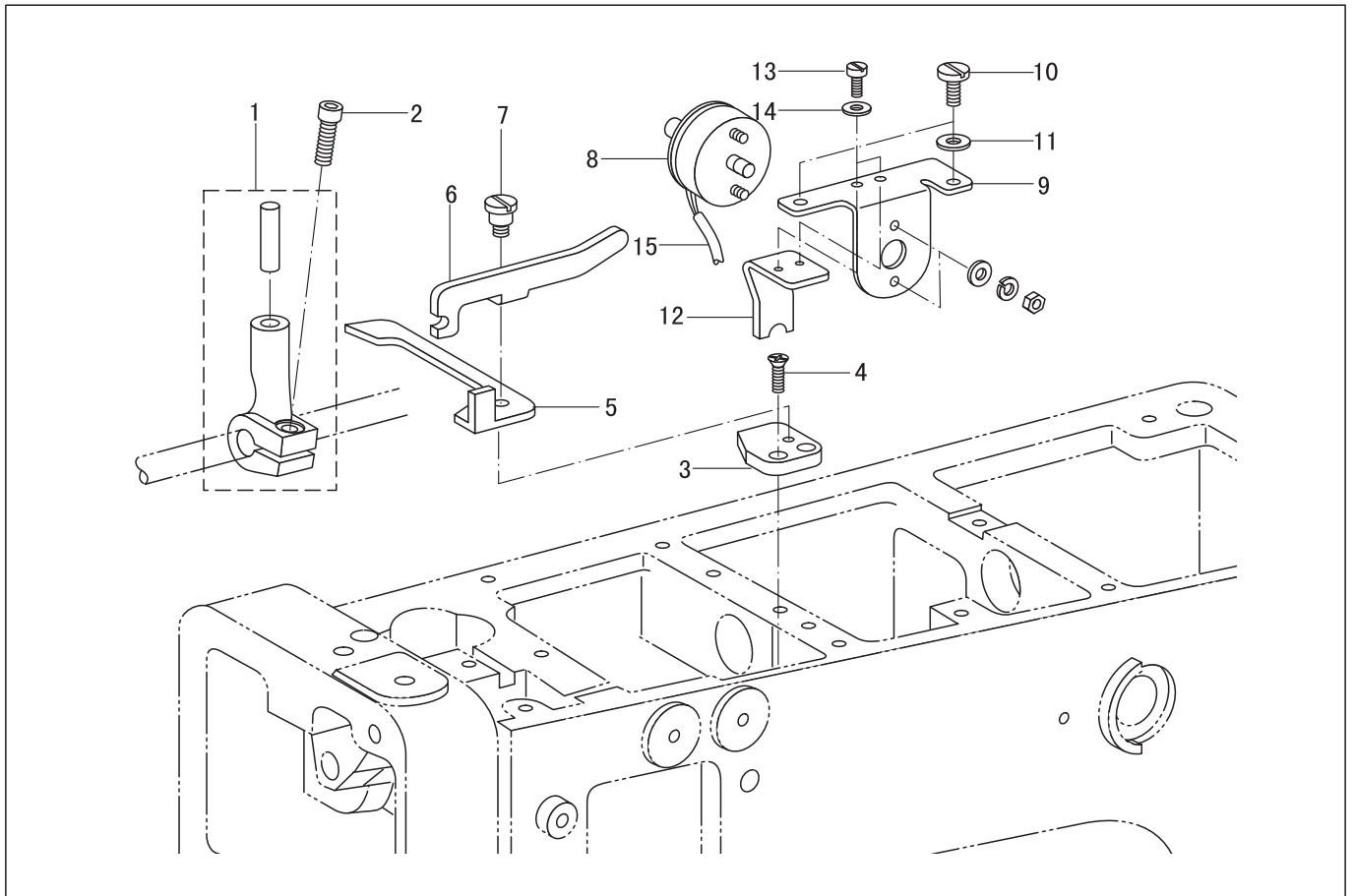
17. Bobbin winder mechanism



17. Bobbin winder mechanism

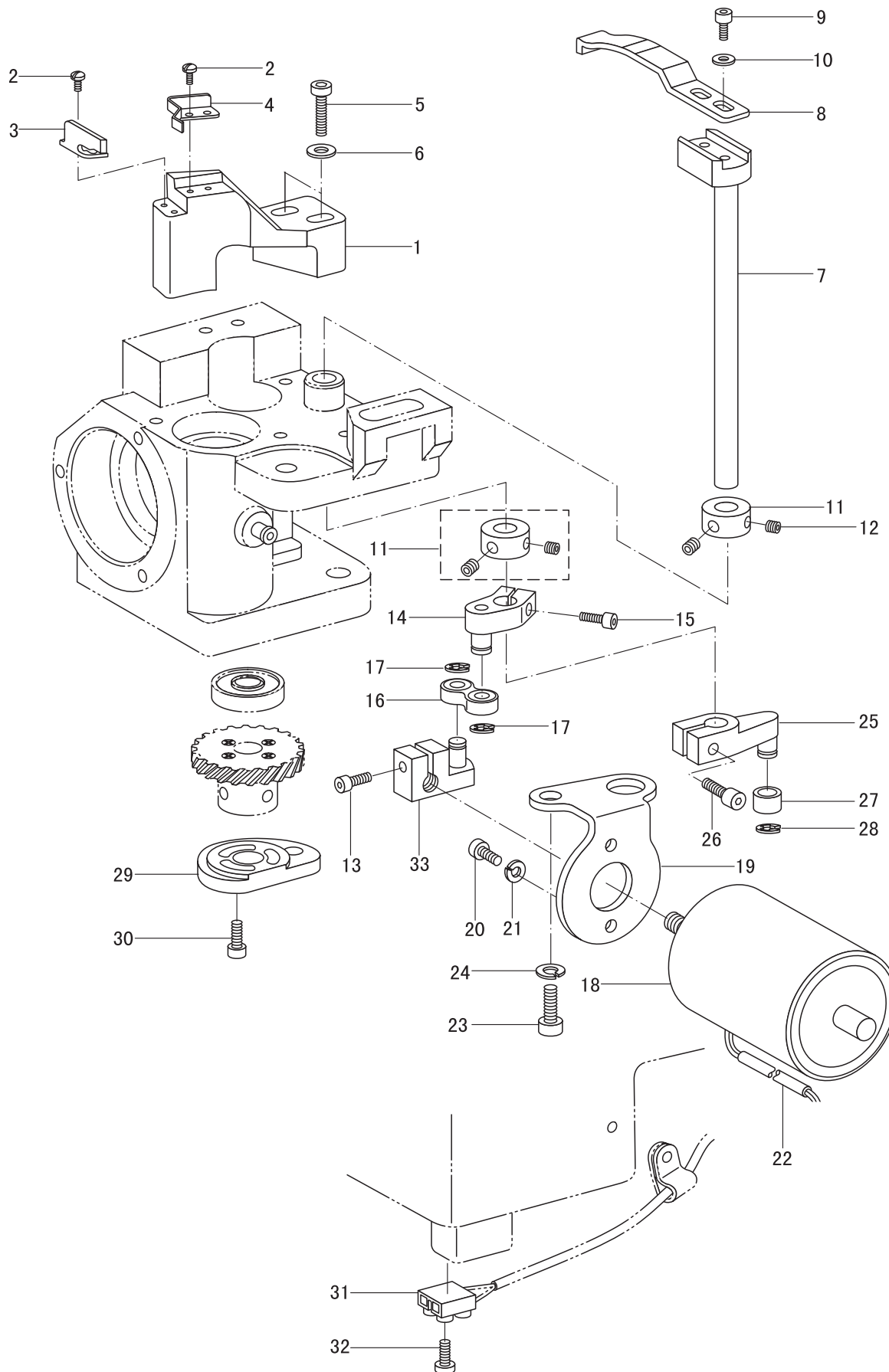
NO.	PARTS NO.	PARTS NAME	QTY		REMARK
			TW1-898	TW1-898-D2	
1	93WF17-001	Bobbin presser	1	1	GB/T 818 M4×8 GB/T 97.1 4
2	89WF5-008	Bobbin presser shaft assy	1	1	
	89WF5-008A	Shaft	1	1	
	89WF5-008B	Joint plate	1	1	
	89WF5-008C	Pin	2	2	
	89WF5-008D	stopper	1	1	
	89WF5-015	Rubber cover	1	1	
3		Screw	1	1	
4		Washer	1	1	
5	93WF17-002	B-winder shaft bracket assy	1	1	
6	93WF17-011	Bobbin winder shaft	1	1	GB/T 41 M5
7	93WF17-003	Retaining ring	1	1	
8	93WF15-012	Set screw	1	1	
9	93WF17-004	Spring	1	1	
10	93WF17-005	Spring	1	1	
11	93WF17-020	Bobbin winder shaft	1	1	
12	93WF17-006	Bobbin winder sheel	1	1	
13	93WF17-007	Rubber ring	1	1	
14	93WF17-012	Set screw	2	2	
15	93WF17-008	Dust guard plate	1	1	
16	93WF17-013	Bolt	1	1	GB/T 879.1 2×4
17	93WF17-014	Washer	1	1	
18		Nut	1	1	
19	93WF17-009	Knife	1	1	
20	21WF4-047	Screw	1	1	
21		Pin	1	1	
22	93WF17-017	Bobbin winder tension assy	1	1	
23		Set screw	1	1	
24		Bearing	2	2	

18. Tension release mechanism



NO.	PARTS NO.	PARTS NAME	QTY		REMARK
			TW1-898	TW1-898-D2	
1	93WF18-003	Thread float lever assy	1	1	GB/T 68 M4×12
2	93WF7-010	Bolt	2	2	
3	93WF18-005	Lever setting plate	1	1	
4		Screw	1	1	
5	93WF18-007	Thread float lever	1	1	SMT3418SL
6	93WF18-008	Thread float plate	1	1	
7	93WF18-001	Shoulder screw	1	1	
8	93WF18-012	Tension release solenoid	—	1	
9	93WF18-009	Setting plate, solenoid	—	1	GB/T 97.1 4
10	13WF2-040	Screw	2	2	
11		Washer	2	2	
12	93WF18-002	Bracket, solenoid	—	1	
13	93WF1-024	Bolt	—	2	GB859 4 L=1000
14		Washer, spring	—	2	
15	117WF18-001	Wire	—	1	

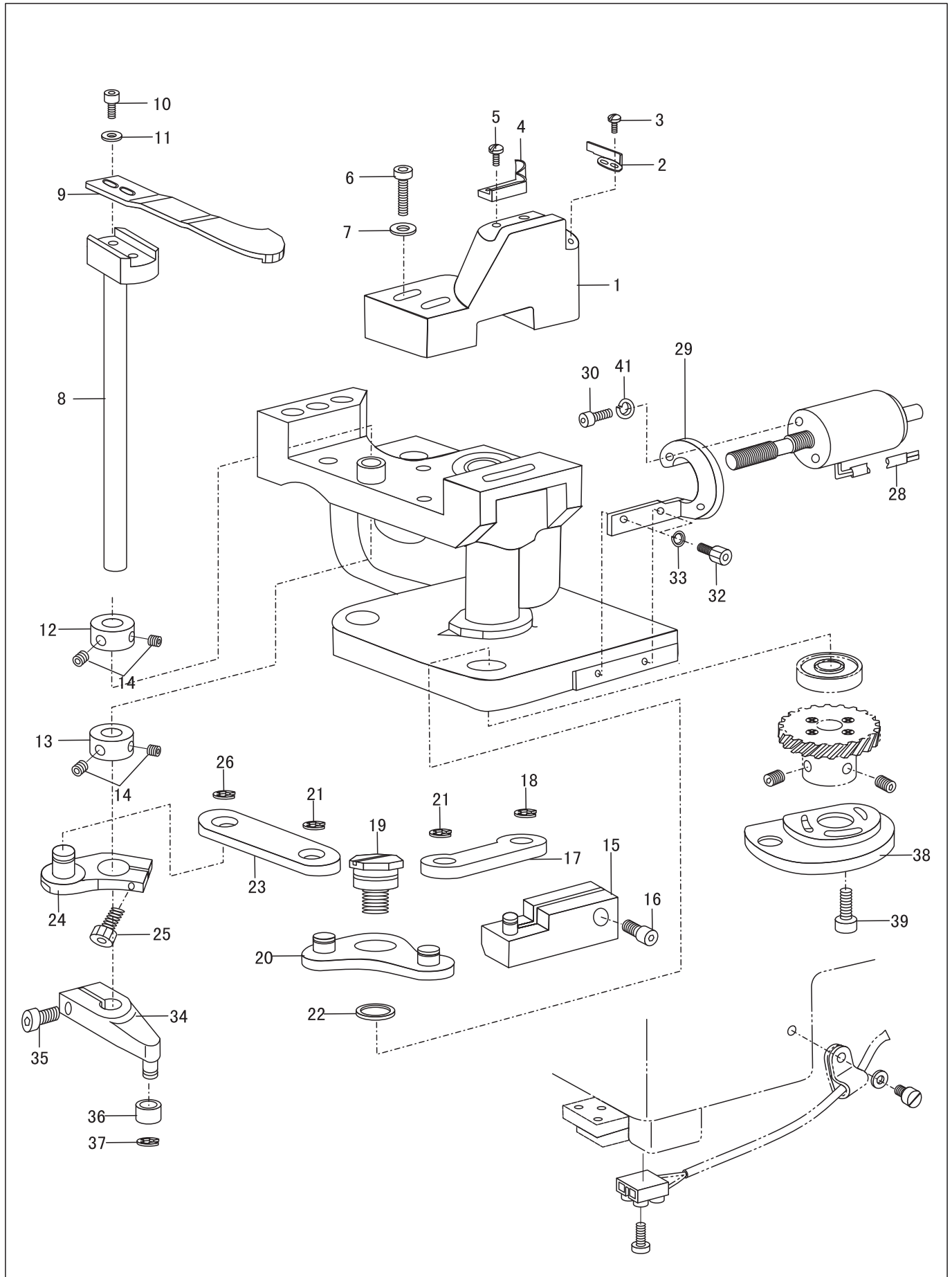
19. Thread trimmer mechanism



19. Thread trimmer mechanism

NO.	PARTS NO.	PARTS NAME	QTY	REMARK
			TW1-898-D2	
1	93WF19-007	Support bracket, F-knife	1	GB/T 848 5
2	93WF19-001	Screw	4	
3	93WF19-002	Fixed knife	1	
4	93WF19-003	Spring, thread holding	1	
5	93WF19-008	Bolt	2	
6		Washer	2	
7	93WF19-010	Driving knife shaft	1	GB/T 97.1 3
8	93WF19-004	Driving knife	1	
9	93WF8-036	Bolt	2	
10		Washer	2	
11	93WF19-005	Collar	2	
12	93WF9-002	Set screw	4	
13	93WF13-006	Bolt	3	GB896 3
14	93WF19-015	Driving knife arm assy	1	
15	93WF8-031	Bolt	4	
16	93WF19-016	Driving knife connection	1	
17		Retaining ring	2	
18	93WF19-018	Thread trimmer solenoid	1	GB 859 4
19	93WF19-019	Solenoid setting plate	1	
20	93WF13-006	Bolt	2	
21		Washer	2	
22	117WF19-001	Wire	1	
23	93WF6-035	Bolt	1	GB 859 6
24		Washer	1	
25	93WF19-020	Driving knife arm	1	
26	93WF19-021	Bolt	1	
27	93WF19-006	Roller	1	
28	93WF11-006	Retaining ring	1	GB/T 65 M2. 5×16
29	93WF19-022	Thread trimmer cam	1	
30	93WF8-031	Bolt	3	
31	80WF2-021	Terminal block	1	
32		Screw	1	
33	93WF19-023	Driving knife arm assy	1	

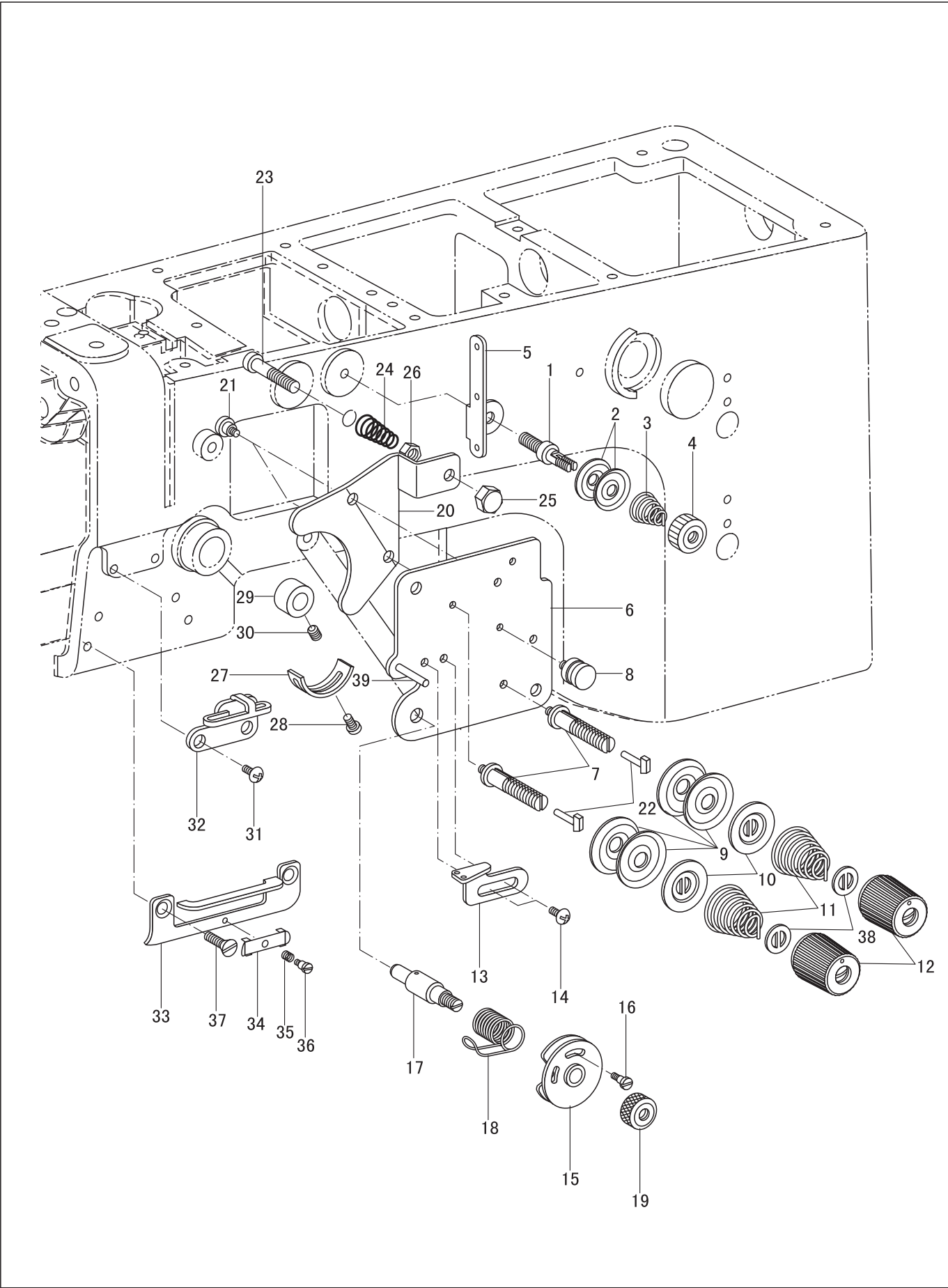
19. Thread trimmer mechanism (TW2-898-D2)



19. Thread trimmer mechanism (TW2-898-D2)

NO.	PARTS NO.	PARTS NAME	QTY	REMARK
			TW2-898-D2	
1	93WF19-007	Support bracket, F-knife	1	GB/T 848 5
2	93WF19-002	Fixed knife	1	
3	93WF19-001	Screw	2	
4	93WF19-003	Spring, thread holding	1	
5	93WF19-001	Screw	2	
6	93WF19-008	Bolt	2	
7		Washer	2	
8	93WF19-010	Driving knife shaft	1	GB/T 97.1 3
9	93WF19-004	Driving knife	1	
10	93WF8-036	Bolt	2	
11		Washer	2	
12	93WF19-005	Collar	1	
13	193WF19-001	Collar	1	
14	93WF19-002	Set screw	4	GB896. 3
15	193WF19-002	Connector assy	1	
16	93WF13-006	Bolt	1	
17	193WF19-003	Link	1	
18		Retaining ring	1	
19	193WF19-004	Screw	1	
20	193WF19-005	Swing board assy	1	GB896. 3
21		Retaining ring	1	
22	193WF19-006	Retaining ring	1	
23	193WF19-007	Link	1	
24	193WF19-008	Crank assy	1	
25	93WF8-031	Screw	1	
26		Retaining ring	1	GB896. 3
27				
28	193WF19-009	Thread trimmer solenoid	1	
29	193WF19-010	Solenoid setting plate	1	
30	93WF13-006	Screw	2	
31		Washer	2	
32	93WF13-006	Screw	2	GB859. 4
33		Washer	2	
34	93WF19-020	Driving knife arm assy	1	
35	93WF19-021	Bolt	1	
36	93WF19-006	Roller	1	
37	93WF11-006	Retaining ring	1	
38	93WF19-022	Thread trimmer cam	1	GB859. 4
39	93WF8-031	Screw	3	

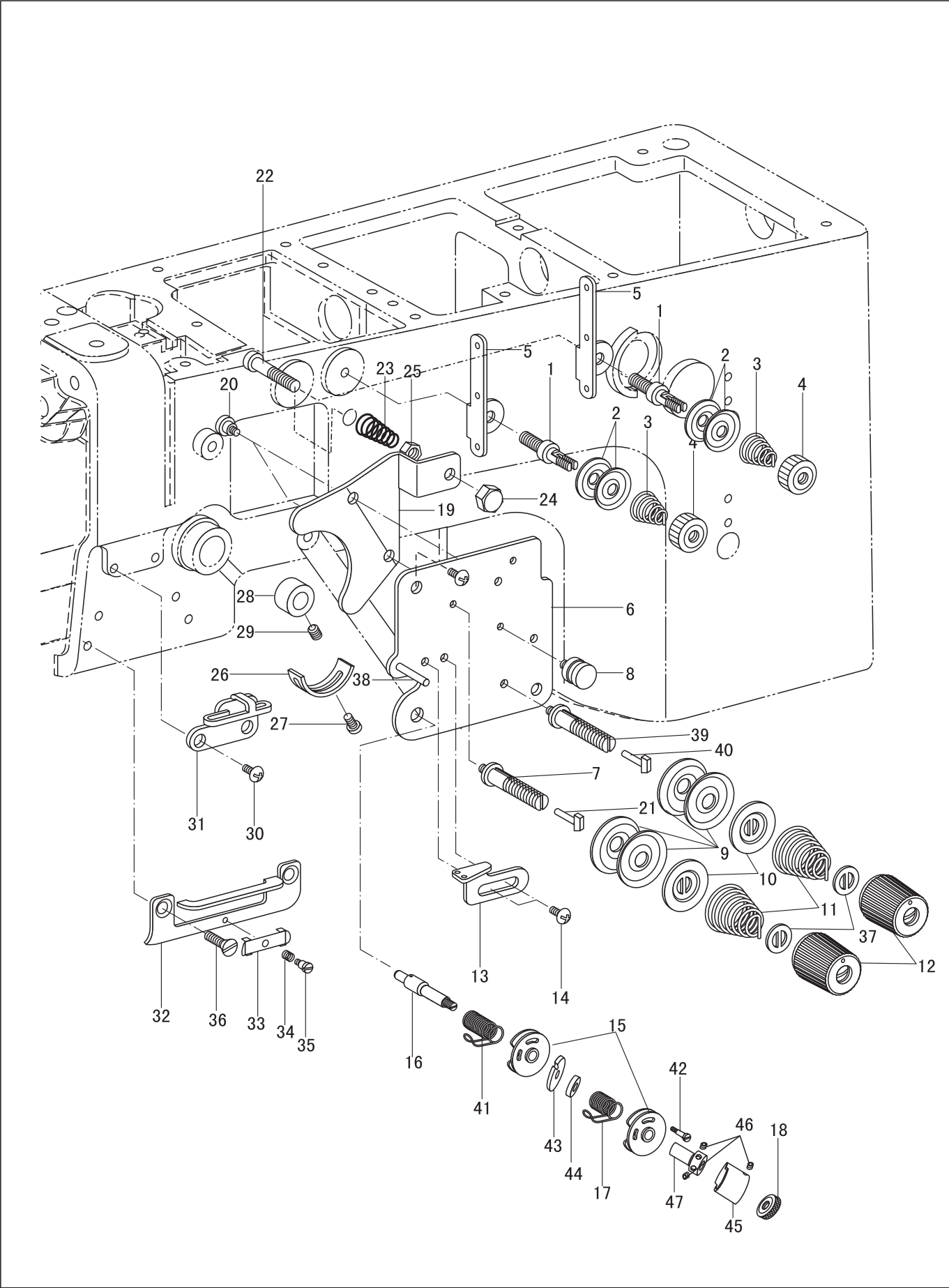
20. Thread tension mechanism



20. Thread tension mechanism

NO.	PARTS NO.	PARTS NAME	QTY		REMARK
			TW1-898	TW1-898-D2	
1	93WF20-006	Tension adjusting stud	1	1	
2	22T1-009E3	Tension disc	2	2	
3	13WF2-009	Tension spring	1	1	
4	36T2-006D4	Nut	1	1	
5	93WF20-007	Thread guide	1	1	
6	93WF20-008	Tension plate assy	1	1	
7	93WF20-009	Tension adjusting stud	2	2	
8	93WF20-010	Thread guide	1	1	
9	22T1-012F5	Tension disc	4	4	
10	22T1-012F4	Disc presser, tension	2	2	
11	21WF4-031	Tension spring	2	2	
12	21WF4-030	Tension nut	2	2	
13	93WF20-011	Thread retainer	1	1	
14		Screw	2	2	GB818 M4×5
15	103697	Tension spring guide assy	1	1	
16	9WF1-003C	Screw	1	1	GB/T 818 M4×5
17	037515	Tension adjusting stud	1	1	
18	103692	Thread take-up spring	1	1	
19	037537	Tension nut	1	1	
20	93WF20-017	Tension release plate	1	1	
21	21WF4-029	Shoulder screw	2	2	
22	93WF20-018	Shoulder pin, tension release	2	2	
23	93WF20-019	Pusher pin, tension release	1	1	
24	93WF20-001	Spring	1	1	
25	93WF20-002	Nut, cap	1	1	
26		Nut	1	1	GB/T 6170 M4
27	103693	Stopper	1	1	
28	21WF4-015	Screw	1	1	
29	93WF20-022	Collar, tension stud	1	1	
30		Set screw	1	1	GB/T 80 M4×5
31	200WF20-002	Screw	3	3	
32	93WF20-003	Thread guide	1	1	
33	93WF20-025	Thread hook	1	1	
34	93WF20-004	Thread clamp	1	1	
35	1WF1-028	Spring, compression	1	1	
36	93WF20-005	Shoulder screw	1	1	
37		Screw	2	2	GB/T 68 M5×8
38	153209	Stopper	2	2	
39	93WF20-028	Pin, opener	1	1	

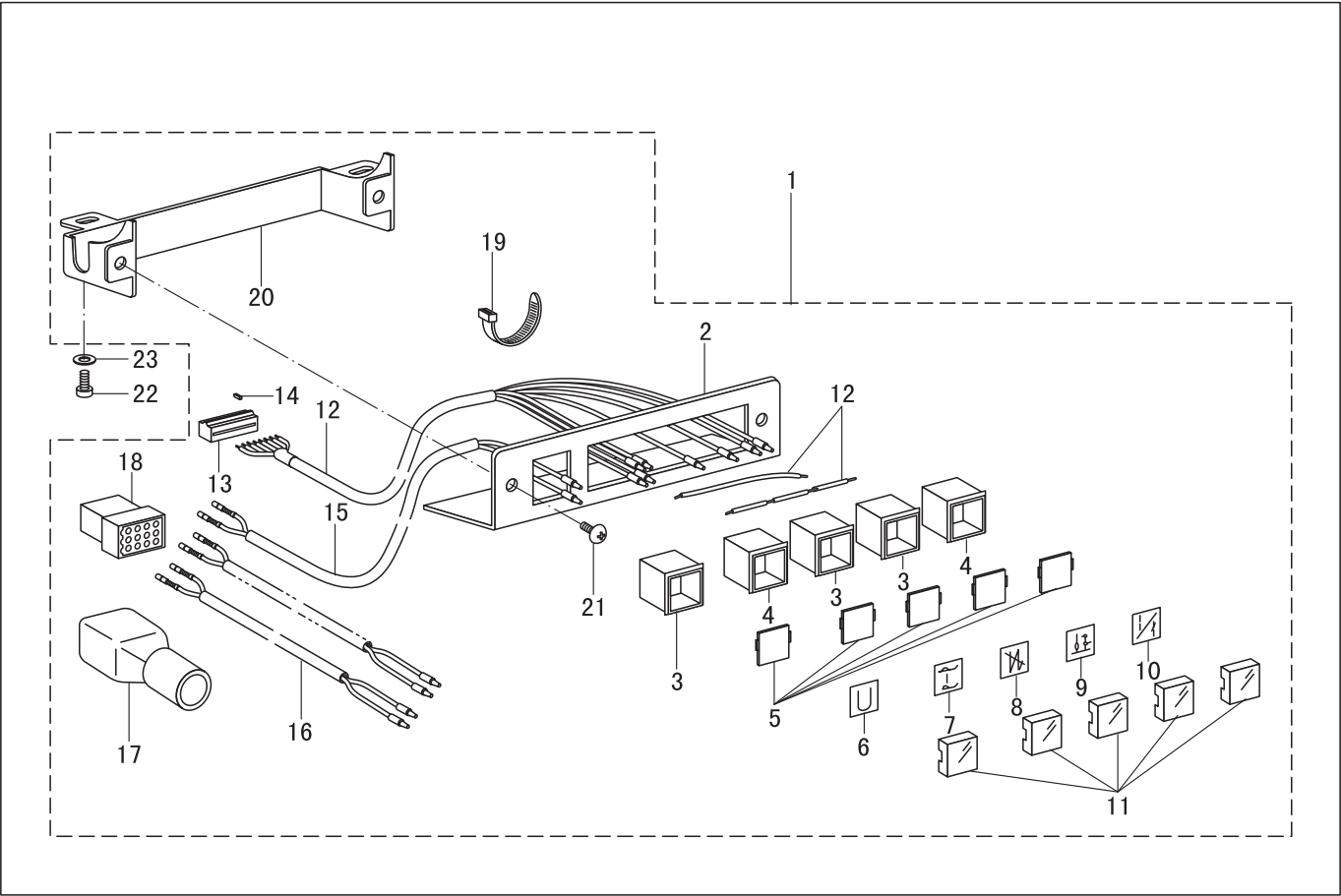
20. Thread tension mechanism (TW2-898-D2)



20. Thread tension mechanism (TW2-898-D2)

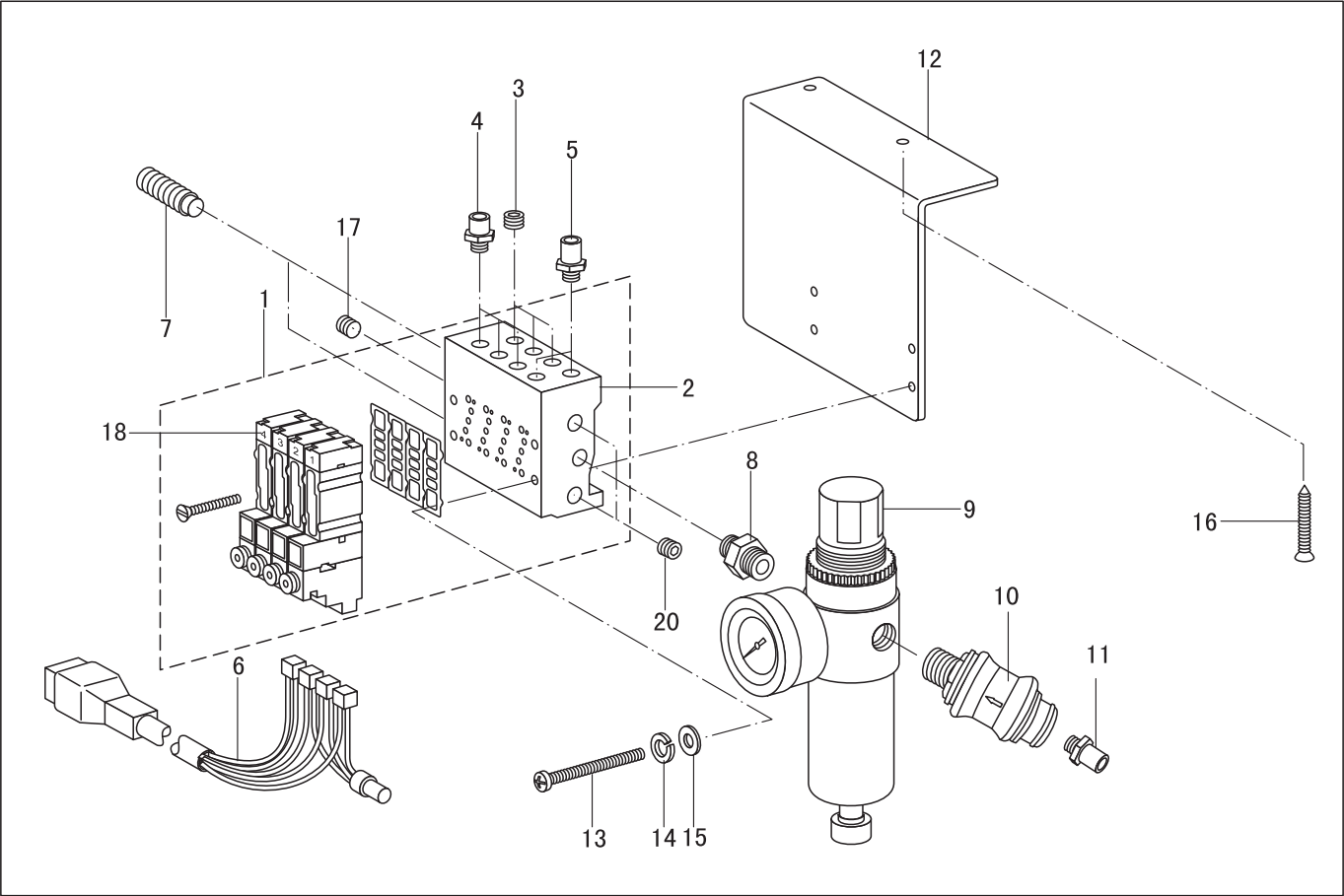
NO.	PARTS NO.	PARTS NAME	QTY	REMARK
			TW2-898-D2	
1	93WF20-006	Tension adjusting stud	2	GB818 M4×5
2	22T1-009E3	Tension disc	4	
3	13WF2-009	Tension spring	2	
4	36T2-006D4	Nut	2	
5	93WF20-007	Thread guide	2	
6	93WF20-008	Tension plate assy	1	
7	93WF20-009	Tension adjusting stud	1	
8	93WF20-010	Thread guide	1	
9	22T1-012F5	Tension disc	4	
10	22T1-012F4	Disc presser, tension	2	
11	21WF4-031	Tension spring	2	
12	21WF4-030	Tension nut	2	
13	93WF20-011	Thread retainer	1	
14	93WF20-012	Screw	2	
15	103697	Tension spring guide assy	2	
16	576466	Tension adjusting stud	1	
17	103692	Thread take-up spring	1	
18	37537	Tension nut	1	
19	93WF20-017	Tension release plate	1	
20	21WF4-029	Shoulder screw	2	
21	93WF20-018	Shoulder pin, tension release	1	
22	93WF20-019	Pusher pin, tension release	1	
23	93WF20-001	Spring	1	
24	93WF20-002	Nut, cap	1	GB/T 6170 M4
25		Nut	1	
26	103693	Stopper	1	
27	21WF4-015	Screw	1	GB/T 80 M4×5
28	93WF20-022	Collar, tension stud	1	
29		Set screw	1	
30	200WF20-002	Screw	3	
31	93WF20-003	Thread guide	1	
32	93WF20-025	Thread hook	1	
33	93WF20-004	Thread clamp	1	
34	1WF1-028	Spring, compression	1	
35	93WF20-005	Shoulder screw	1	
36	211WF2-009	Screw	2	
37	153209	Stopper	2	
38	93WF20-028	Pin, opener	1	
39	193WF20-001	Adjusting screw	1	
40	193WF20-002	Shoulder pin, tension release	1	
41	242414	Thread take-up spring	1	
42	576465	Screw	1	
43	242416	Washer	1	
44	242417	Washer	1	
45	242422	Spring cover	1	
46	661106	Screw	3	
47	242421	Collar	1	

21. Manual switch mechanism



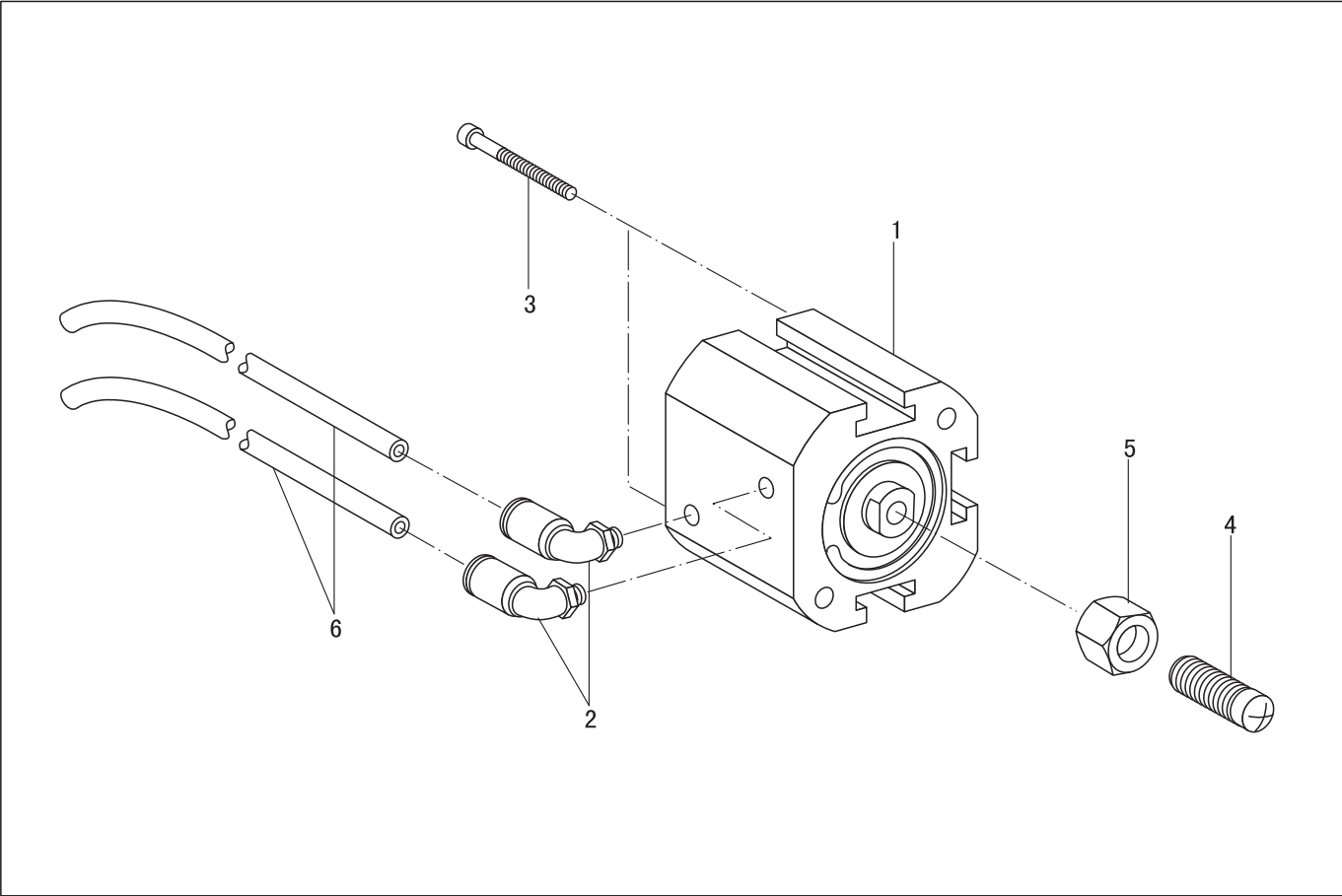
NO.	PARTS NO.	PARTS NAME	QTY	REMARK
			TW1-898-D2	
1	93WF21-001	Switch assy	1	GB/T 818 M4×5 GB/T 70.1 M4×6 GB/T 97.1 4
2	93WF21-002	Switch setting plate	1	
3	93WF21-003	Switch	3	
4	93WF21-004	Switch	2	
5	93WF21-005	Lens	5	
6	93WF21-006	Push button mark	1	
7	93WF21-007	Push button mark	1	
8	93WF21-008	Push button mark	1	
9	93WF21-009	Push button mark	1	
10	93WF21-010	Push button mark	1	
11	93WF21-011	Push button	5	
12	93WF21-012	Harness	1	
13	93WF21-013	Connector	1	
14	93WF21-014	Pin	1	
15	93WF21-015	Harness assy	1	
16	93WF21-016	Harness assy	1	
17	93WF21-017	Connector cap	1	
18	93WF21-018	Nylon connector	1	
19		Fastening band	1	
20	93WF21-020	Switch cover plate	1	
21		Screw	2	
22		Bolt	2	
23		Washer	2	

22. Air presser mechanism



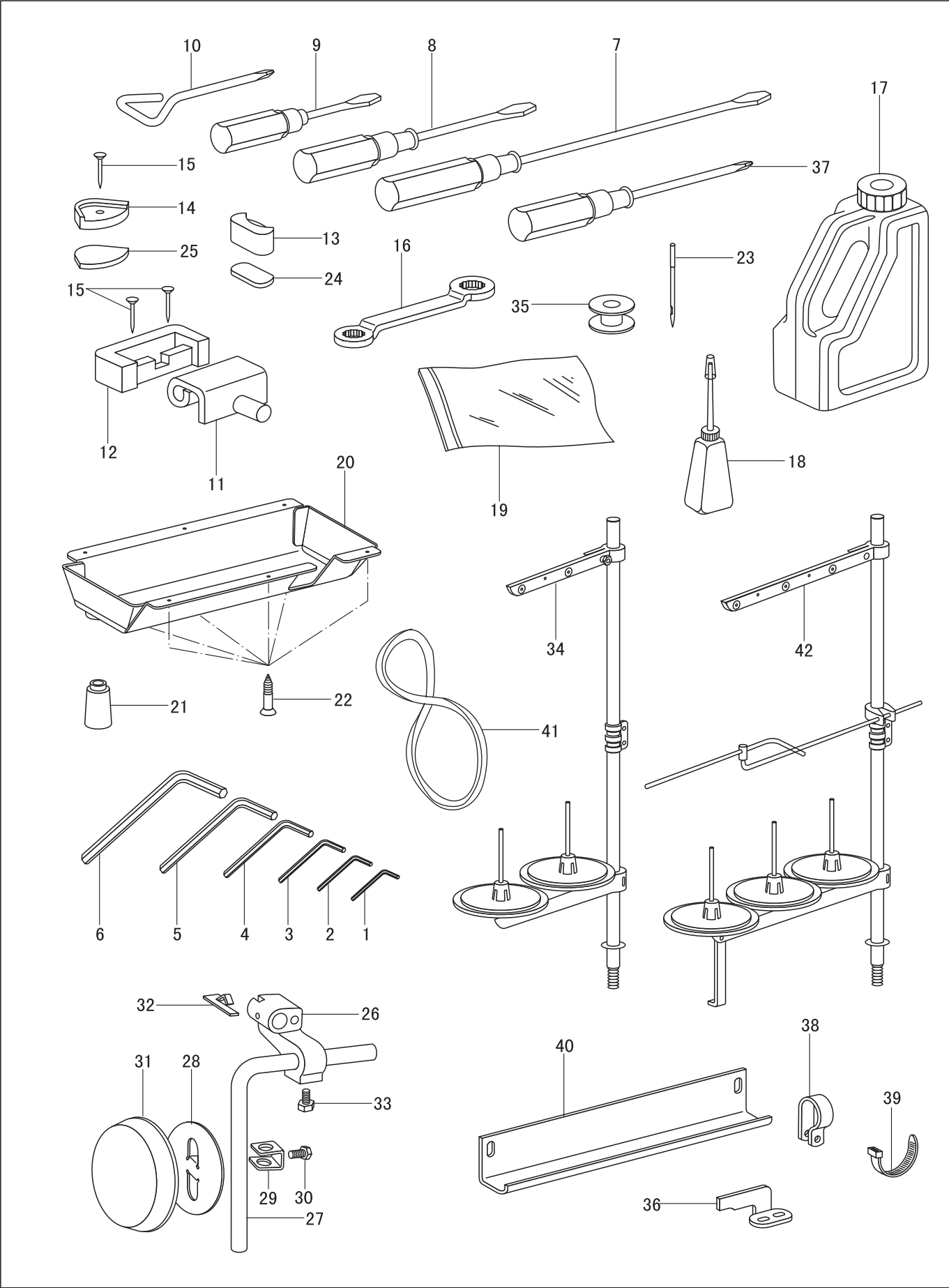
NO.	PARTS NO.	PARTS NAME	QTY	REMARK
			TW1-898-D2	
1	93WF22-002	Solenoid valve assy	4	4V110-06DC24V
2	93WF22-003	Air manifold	1	100M-4F
3	93WF22-004	Plug	3	G1/4
4	93WF22-005	Joint	3	APC4-01
5	93WF22-006	Joint	2	APC6-01
6	93WF22-007	Connector assy	1	
7	93WF22-008	Silencer	2	PSL-02
8	93WF22-009	Joint	1	1/4-1/4
9	93WF22-010	Integrater	1	AFR2000
10	93WF22-011	Ball valve	1	HSV-08
11	93WF22-012	Joint	1	APC8-02
12	93WF22-001	Setting plate	1	
13		Screw	4	GB/T 818 M4×38
14		Washer, spring	4	GB/T 859 4
15		Washer	4	GB/T97.1 4
16		Wood screw	2	GB 99 5×20
17	93WF22-015	Plug	3	G1/8
18	117WF22-015	Mark	1	

23. Presser foot actuator mechanism



NO.	PARTS NO.	PARTS NAME	QTY	REMARK
			TW1-898-D2	
1	93WF23-001	Cylinder	1	SU239 32×20
2	93WF23-002	Joint	2	APL6-01
3		Bolt	2	GB/T 70.1 M5×45
4	93WF23-004	Screw	1	
5	93WF23-005	Nut	1	GB/T 6172.1 M8
6		Air tube	2	L=870mm

24. Accessories



24. Accessories

NO.	PARTS NO.	PARTS NAME	QTY			REMARK
			TW1- 898	TW1- 898-D2	TW2- 898-D2	
1		Hexagonal wrench	1	1	1	S=1.5
2		Hexagonal wrench	1	1	1	S=2
3		Hexagonal wrench	1	1	1	S=2.5
4		Hexagonal wrench	1	1	1	S=3
5		Hexagonal wrench	1	1	1	S=4
6		Hexagonal wrench	1	1	1	S=5
7	33TF-012	Screw driver, L	1	1	1	
8	33TF-013	Screw driver, M	1	1	1	
9	33TF-014	Screw driver, S	1	1	1	
10	93WF24-015	Screw driver, plus	1	1	1	
11	22T9-007F1	Hinge	2	2	2	
12	17WF8-011	Rubber cushion	2	2	2	
13	93WF24-002	Corner support	2	2	2	
14	93WF24-003	Head cushion	2	2	2	
15		Nail	6	6	6	SG162 L=19
16		Double wrench	1	1	1	8×10 GB/T4388-1995
17	22T9-017	Oil tank	1	1	1	
18	33TF-011	Oiler	1	1	1	
19	33TF-010	Accessories bag	1	1	1	
20	93WF24-019	Oil pan	1	1	1	
21		Poly oiler	1	1	1	
22		Wood screw	6	6	6	GB 100 3.5×12
23		Needle	3	4	2	DP×17 22#
24	93WF24-004	Spacer	2	2	2	
25	93WF24-005	Spacer	2	2	2	
26	93WF24-022	Knee lifter bracket	1	—	—	
27	22T9-003B2	Knee lifter bar	1	—	—	
28	22T9-003B5	Knee lifter plate	1	—	—	
29	22T9-003B6	Stopper, k-lifter plate	1	—	—	
30	22T9-003B6	Bolt	1	—	—	SM11/64" ×28/8
31	22T9-003B8	Cover, k-lifter plate	1	—	—	
32	93WF24-006	Leafspring	1	—	—	
33		Bolt	1	—	—	GB/T 5781 M8×10
34	33TF-019	Thread stand assy	1	—	—	
35	93WF14-042	Bobbin	3	4	4	
36	93WF19-002	Fixed knife	—	1	2	
37	93WF24-025	Screw driver, hexagonal	1	1	1	
38	93WF16-016	Cushion clamp	—	1	1	
39		Cable tie	—	1	1	4×200
40	93WF24-026	Wire cover	—	1	1	
41		V-belt	1	1	1	M42
42	1F-014	Thread stand (2-thread)	—	—	1	