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# TYPICAL

## GC24621 SERIES

**SINGLE NEEDLE POST BED DRIVEN ROLLER FOOT  
NEEDLE FEED 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

**TYPICAL SEWING MACHINE WANPING MACHINERY CO.,LTD.**

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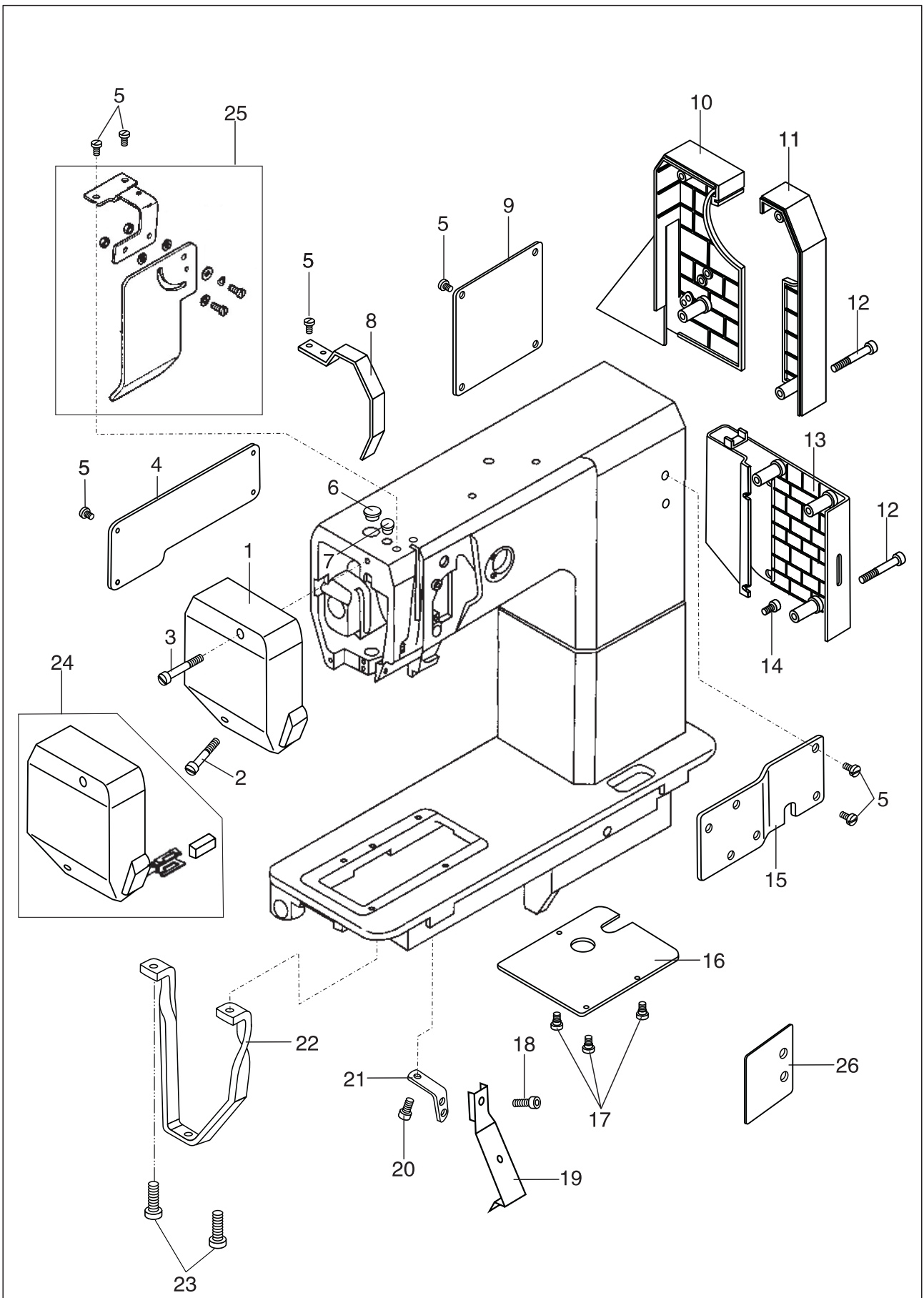
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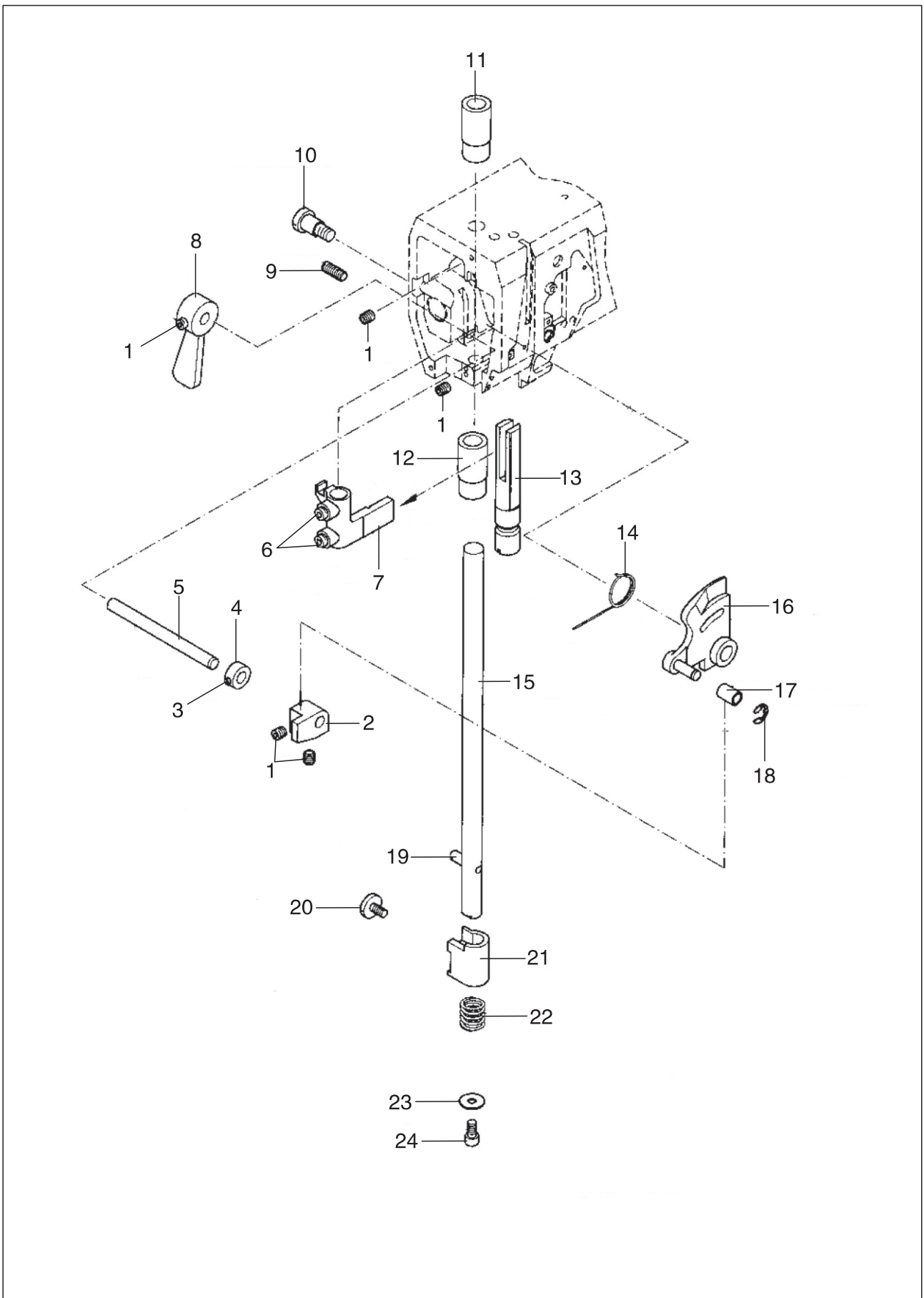
# 1. Casting mechanism



# 1. Casting mechanism

No	PARTS NO.	PARTS NAME	QTY						REMARK
			621	621CX	621-D1	621CX-D1	621-D2	621CX-D2	
1	274WF2-009	Face plate	1	1	/	/	/	/	
2	274WF2-011	Screw	1	1	1	1	1	1	
3	274WF2-010	Screw	1	1	1	1	1	1	
4	274WF2-004	Back cover	1	1	1	1	1	1	
5	274WF2-005	Screw	9	9	12	12	12	12	
6	274WF2-008	Plug	1	1	1	1	1	1	
7	274WF2-007	Plug	1	1	1	1	1	1	
8	274WF2-012	Thread take-up lever guard	1	1	/	/	/	/	
9	274WF2-006	Back cover	1	1	1	1	1	1	
10	274WF6-002	Belt guard	1	1	1	1	1	1	
11	274WF6-001	Belt guard	1	1	1	1	1	1	
12	274WF6-006	Screw	7	7	7	7	7	7	
13	274WF6-004	Belt guard, lower	1	1	1	1	1	1	
14	90WF2-004	Screw	2	2	2	2	2	2	
15	310WF2-009	Plate, control box	/	/	1	1	1	1	
16	274WF2-024	Bottom plate	1	1	1	1	/	/	
	319WF2-002	Bottom plate	/	/	/	/	1	1	
17	13WF7-015	Screw	3	3	3	3	3	3	
18	18WF3-020	Screw	1	1	1	1	1	1	
19	274WF2-023	Lock plate	1	1	1	1	1	1	
20	89WF7-001B	Screw	2	2	2	2	2	2	
21	274WF2-022	Plate	1	1	1	1	1	1	
22	274WF2-021	Support	1	1	1	1	/	/	
	340WF1-001	Support	/	/	/	/	1	1	
23	22WF2-004	Screw	2	2	2	2	1	1	
	13WF7-015	Screw	/	/	/	/	1	1	
24	310WF2-002	Face plate	/	/	1	1	1	1	
25	310WF2-003	Thread take-up lever guard	/	/	1	1	1	1	
26	274WF2-038	Plate	1	1	/	/	/	/	

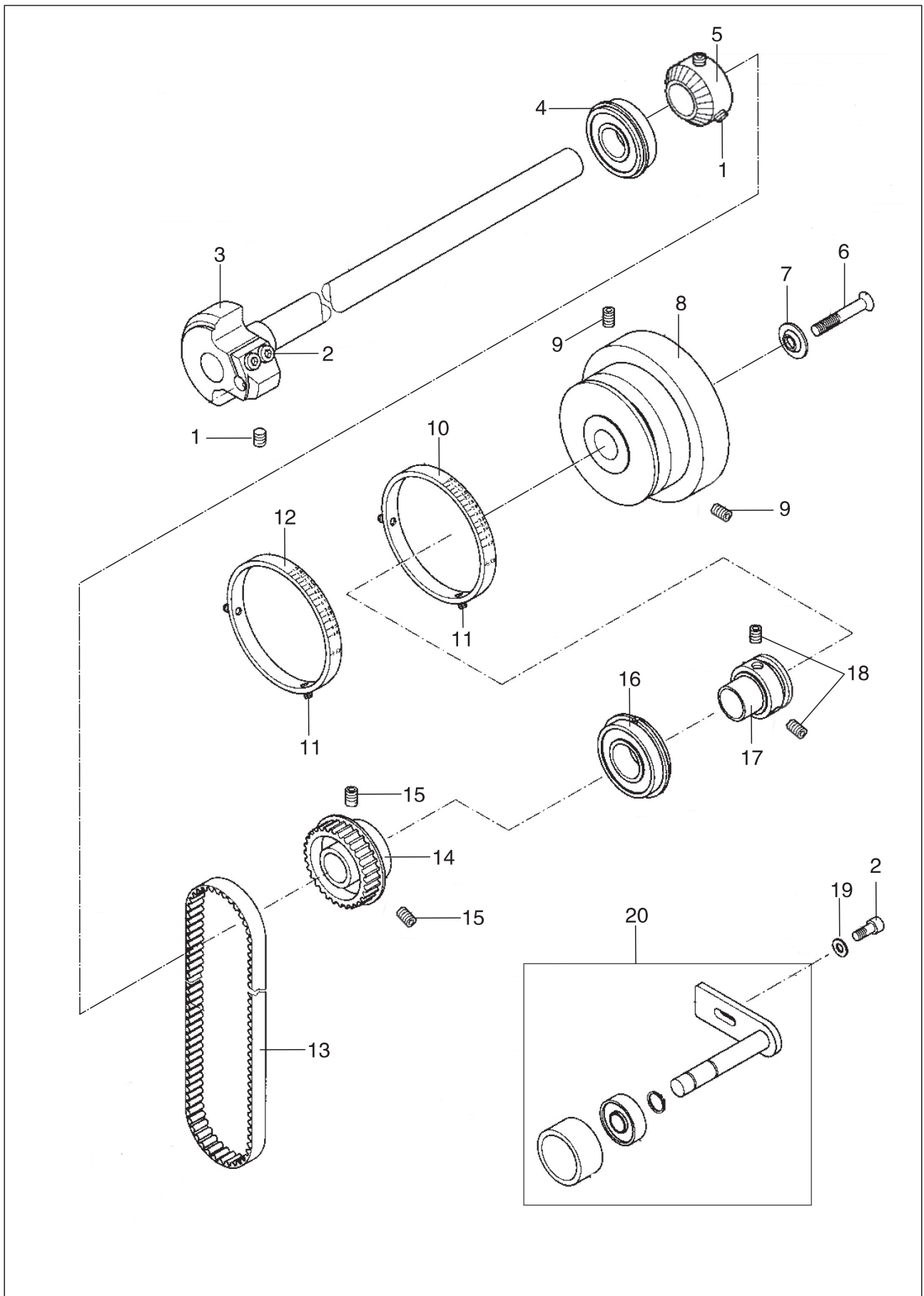
## 2. Presser bar mechanism



## 2. Presser bar mechanism

No	PARTS NO.	PARTS NAME	QTY						REMARK
			621	621CX	621-D1	621CX-D1	621-D2	621CX-D2	
1	80WF6-036	Screw	5	5	5	5	5	5	
2	274WF4-007	Cam, presser bar lifting	1	1	1	1	1	1	
3	123WF3-033	Screw	1	1	1	1	1	1	
4	274WF4-006	Collar	1	1	1	1	1	1	
5	274WF4-005	Shaft	1	1	1	1	1	1	
6	19WF3-005	Screw	2	2	2	2	2	2	
7	274WF4-002	Presser bar bracket	1	1	1	1	1	1	
8	13WF4-026	Manual bar, presser bar lifting	1	1	1	1	1	1	
9	72WF2-014	Screw	1	1	1	1	1	1	
10	13WF4-008	Screw	1	1	1	1	1	1	
11	13WF4-032	Bushing, presser bar U	1	1	1	1	1	1	
12	13WF4-034	Bushing, presser bar L	1	1	1	1	1	1	
13	274WF4-004	Shaft	1	1	1	1	1	1	
14	274WF4-009	Spring	1	1	1	1	1	1	
15	274WF4-003	Presser bar	1	1	1	1	1	1	
16	274WF4-008	Plate	1	1	1	1	1	1	
17	13WF4-007	Roller	1	1	1	1	1	1	
18	GB896 3.5	Retaining ring	1	1	1	1	1	1	
19	13WF4-019	Stopping pin	1	1	1	1	1	1	
20	13WF4-022	Screw	2	2	2	2	2	2	
21	13WF4-020	Stopper	1	1	1	1	1	1	
22	13WF4-023	Spring	1	1	1	1	1	1	
23	71WF3-045	Washer	1	1	1	1	1	1	
24	18WF3-021	Screw	1	1	1	1	1	1	

### 3. Upper shaft mechanism

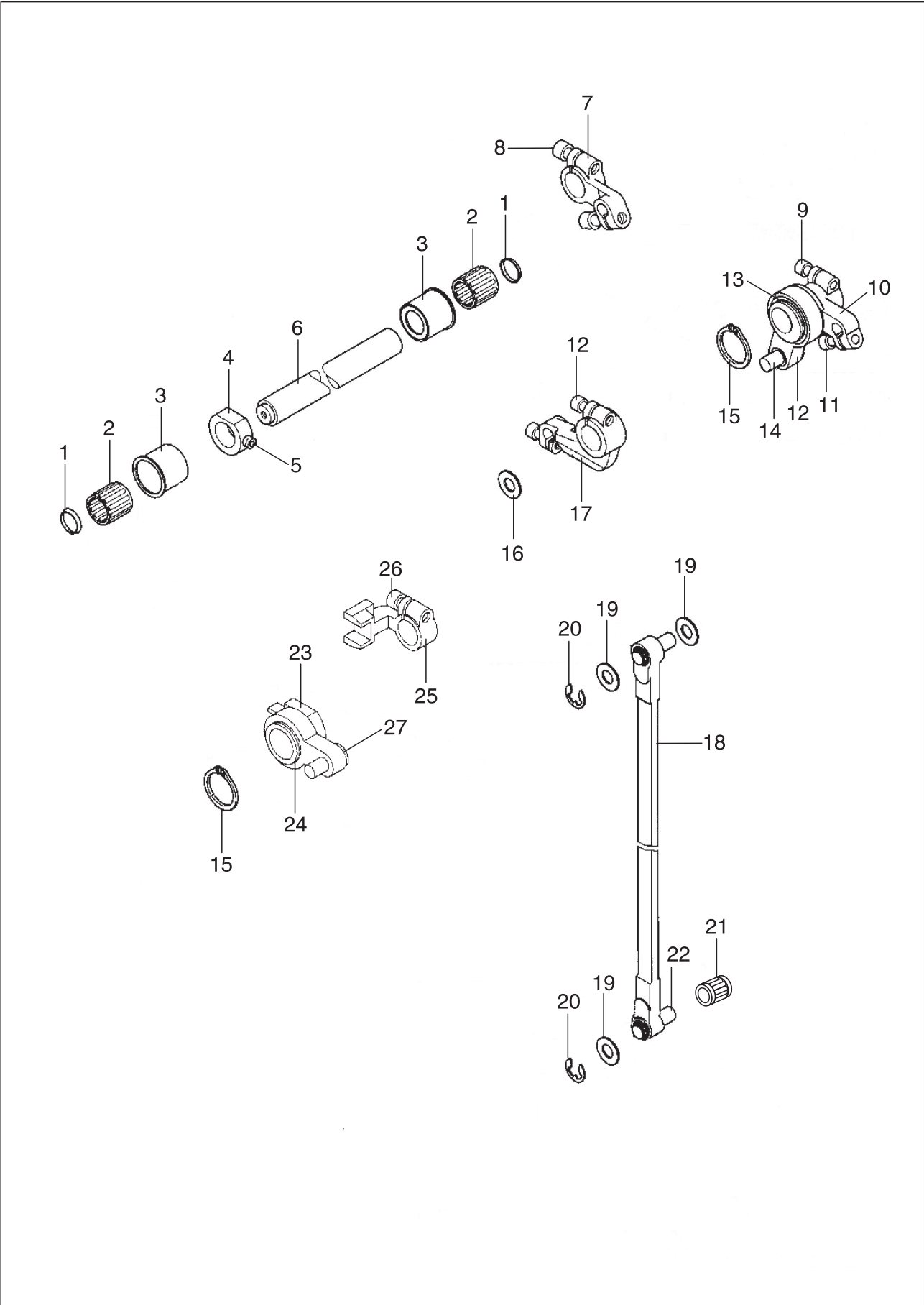




### 3. Upper shaft mechanism

No	PARTS NO.	PARTS NAME	QTY						REMARK
			621	621CX	621-D1	621CX-D1	621-D2	621CX-D2	
1	19WF3-005	Screw	3	3	3	3	3	3	
2	80WF6-028	Screw	3	3	3	3	3	3	
3	274WF1-014	Needle bar cam	1	1	1	1	1	1	
4	20X47X14	Bearing	1	1	1	1	1	1	
5	274WF1-015	Driving wheel	1	1	1	1	1	1	
6	274WF1-024	Screw	1	1	1	1	1	1	
7	274WF1-023	Washer	1	1	1	1	1	1	
8	274WF1-020	Handwheel	1	1	1	1	1	1	
9	274WF1-021	Screw	2	2	2	2	2	2	
10	274WF1-022	Stitch length ring	1	/	1	/	/	1	
11	13WF2-024	Screw	2	2	2	2	2	2	
12	276WF1-001	Stitch length ring	/	1	/	1	1	/	
13	274WF1-017	Timing belt	1	1	1	1	1	1	
14	274WF1-016	Timing wheel	1	1	1	1	1	1	
15	72WF2-014	Screw	2	2	2	2	2	2	
16	20X42X12	Bearing	1	1	1	1	1	1	
17	274WF1-018	Bush	1	1	1	1	1	1	
18	274WF1-019	Screw	2	2	2	2	2	2	
19	274WF1-003	Washer	1	1	1	1	1	1	
20	274WF1-002	Adjusting wheel	1	1	1	1	1	1	

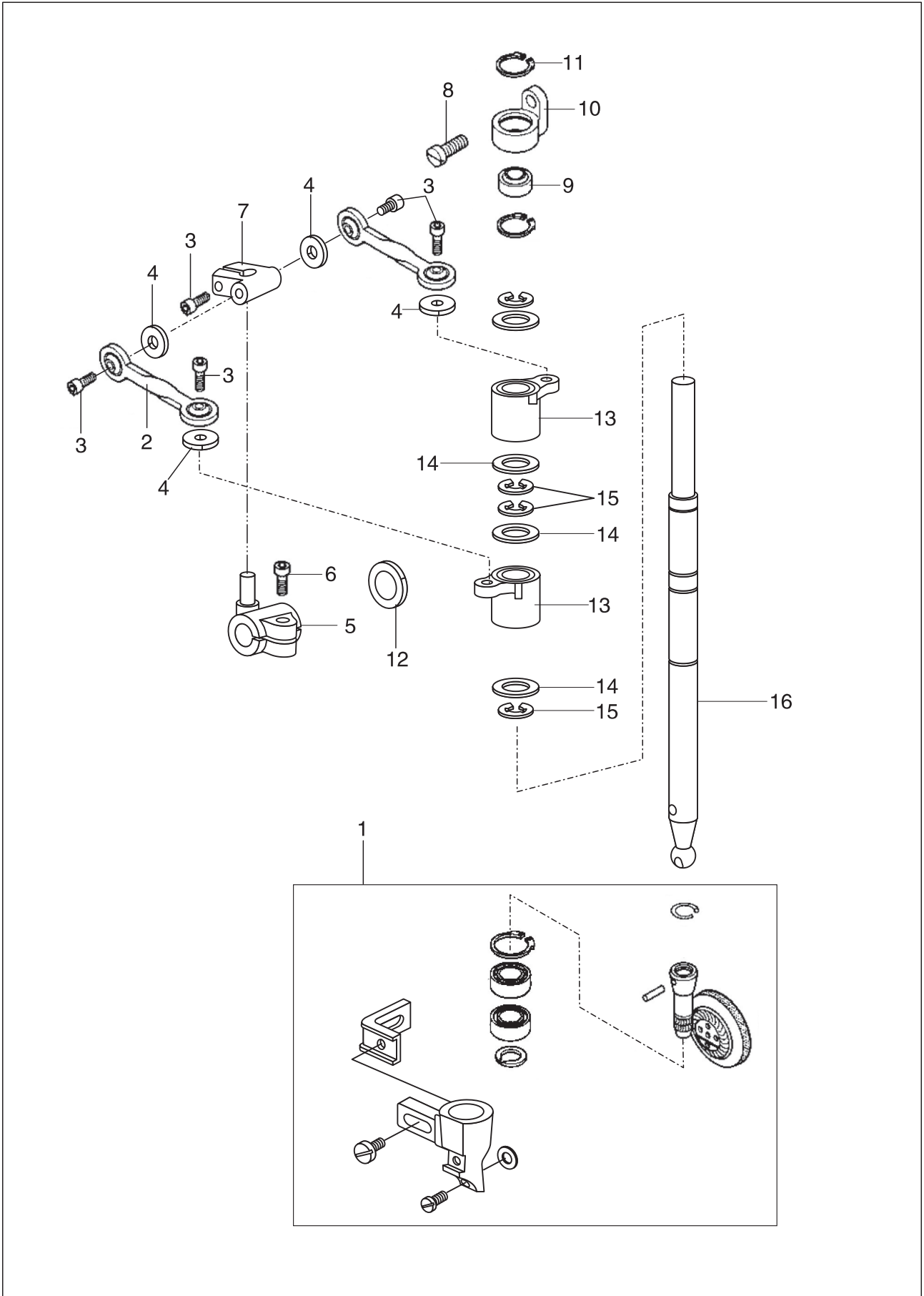
# 4. Upper feed mechanism



#### 4. Upper feed mechanism

No	PARTS NO.	PARTS NAME	QTY						REMARK
			621	621CX	621-D1	621CX-D1	621-D2	621CX-D2	
1	13WF1-073	Retaining ring	4	4	4	4	4	4	
2	15X19X17	Needle bearing	2	2	2	2	2	2	
3	13WF1-072	Bush	2	2	2	2	2	2	
4	13WF1-059	Collar	1	1	1	1	1	1	
5	19WF3-005	Screw	1	1	1	1	1	1	
6	274WF3-006	Upper feed shaft	1	1	1	1	1	1	
7	319WF3-024	Crank	/	/	/	/	1	1	
8	319WF3-025	Screw	/	/	/	/	2	2	
9	22WF4-025	Screw	1	1	1	1	/	/	
10	274WF3-008	Cam	1	1	1	1	/	/	
11	80WF6-028	Screw	3	3	3	3	2	2	
12	13WF3-007	Link	1	1	1	1	/	/	
13	24X28X10	Bearing	1	1	1	1	/	/	
14	13WF3-005	Link pin	1	1	1	1	/	/	
15	GB894.1 24	Retaining ring	1	1	1	1	1	1	
16	13WF3-002	Washer	1	1	1	1	1	1	
17	274WF3-007	Crank	1	1	1	1	1	1	
18	274WF3-011	Link	1	1	1	1	/	/	
19	319WF3-026	Link	/	/	/	/	1	1	
	274WF3-010	Washer	3	3	3	3	3	3	
20	GB896 6	Retaining ring	2	2	2	2	2	2	
21	8X11X10	Needle bearing	3	3	2	3	3	3	
22	274WF3-009	Link pin	1	1	1	1	2	2	
23	319WF3-022	Bush	/	/	/	/	1	1	
24	24X28X10	Needle bearing	/	/	/	/	1	1	
25	319WF3-023	Bracket	/	/	/	/	1	1	
26	42WF2-018	Screw	/	/	/	/	1	1	
27	13WF3-005	Pin	/	/	/	/	1	1	

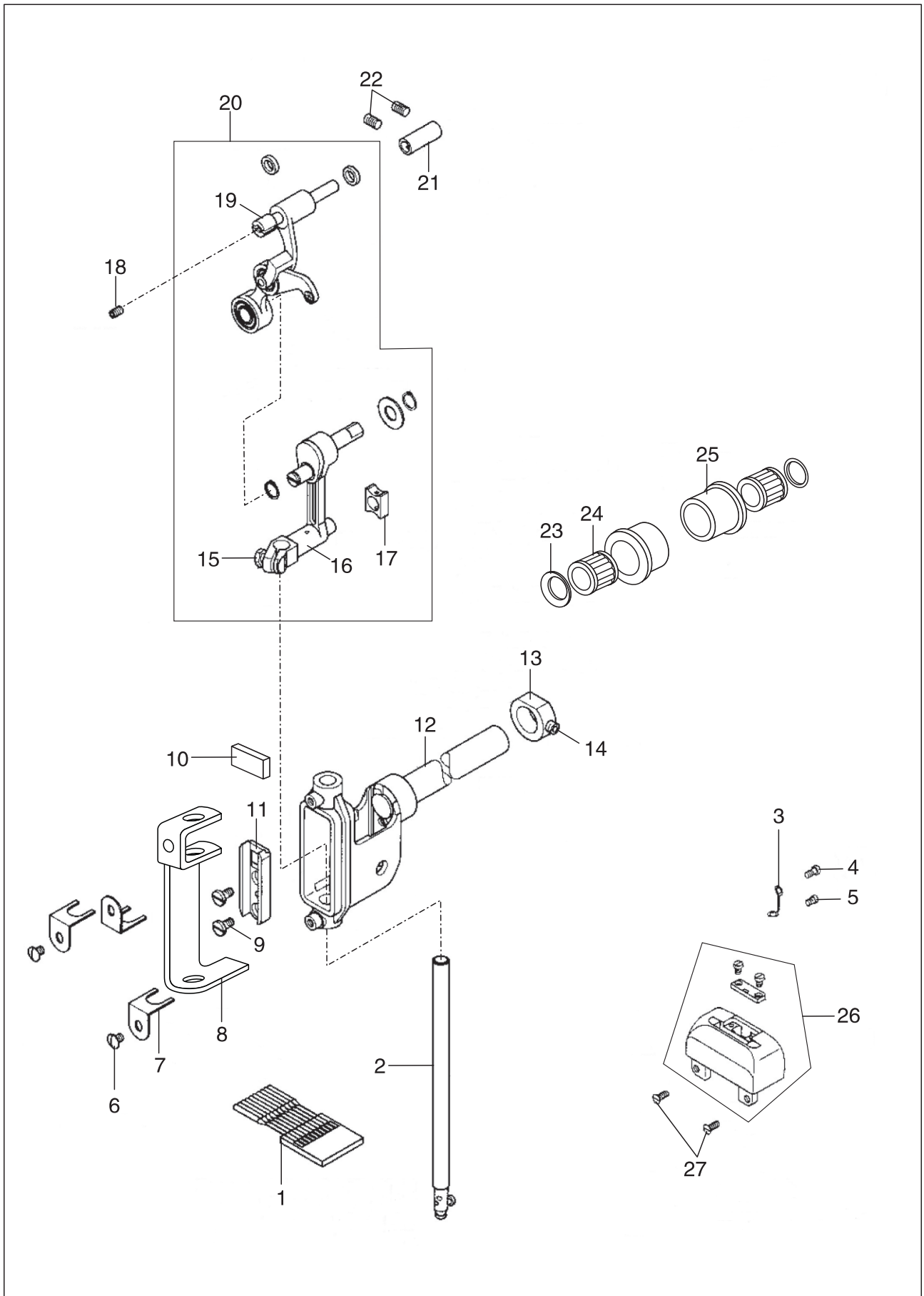
## 5. Upper feed roller mechanism



## 5. Upper feed roller mechanism

No	PARTS NO.	PARTS NAME	QTY						REMARK
			621	621CX	621-D1	621CX-D1	621-D2	621CX-D2	
1	13WF3-081	Upper feed roller	1	1	1	1	/	/	
2	274WF3-003	Link	2	2	2	2	/	/	
3	89WF2-016	Screw	5	5	5	5	/	/	
4	13WF3-037	Felt	4	4	4	4	/	/	
5	274WF3-005	Crank	1	1	1	1	/	/	
6	53WF5-008	Screw	1	1	1	1	/	/	
7	274WF3-004	Connector	1	1	1	1	/	/	
8	13WF1-063	Screw	1	1	1	1	/	/	
9	GE8E	Positioning block	1	1	1	1	/	/	
10	13WF3-039	Retaining ring	1	1	1	1	/	/	
11	13WF3-078	Washer	1	1	1	1	/	/	
12	13WF3-002	Clutch cover	1	1	1	1	/	/	
13	13WF3-022	Clutch	2	2	2	2	/	/	
	BN06014	Clutch	2	2	2	2	/	/	
14	13WF3-023	Washer	4	4	4	4	/	/	
15	GB896 8	Retaining ring	4	4	4	4	/	/	
16	13WF3-021	Shaft	1	1	1	1	/	/	

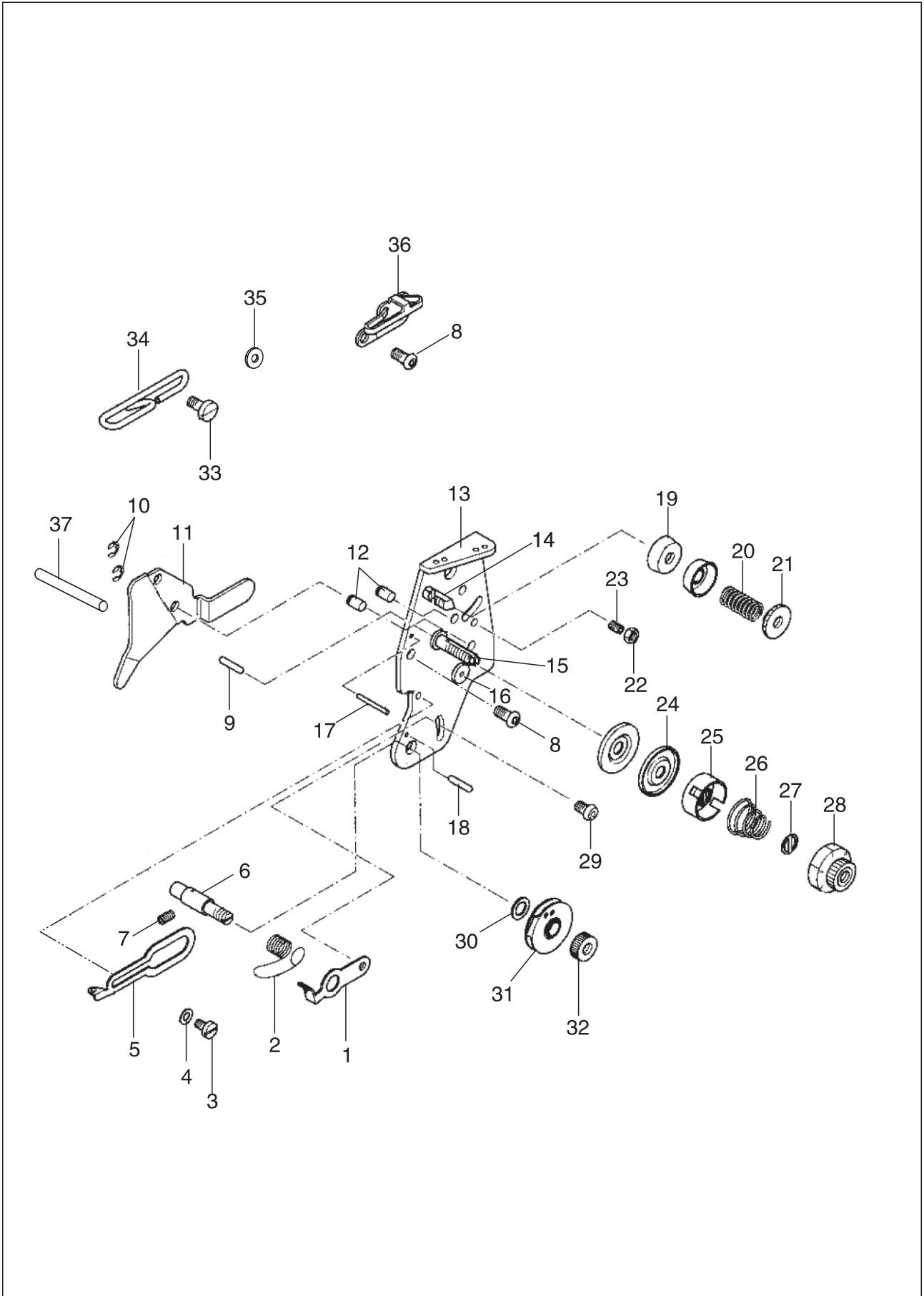
## 6. Needle bar mechanism



## 6. Needle bar mechanism

No	PARTS NO.	PARTS NAME	QTY						REMARK
			621	621CX	621-D1	621CX-D1	621-D2	621CX-D2	
1	DPX5 14#	Needle	1	/	1	/	/	1	
	DPX5 19#	Needle	/	1	/	1	1	/	
2	274WF1-005	Needle bar	1	1	1	1	1	1	
3	274WF1-004	Needle bar thread guide	1	1	1	1	1	1	
4	13WF1-015	Screw	1	1	1	1	1	1	
5	71WF1-003	Screw	1	1	1	1	1	1	
6	13WF1-067	Screw	2	2	2	2	2	2	
7	13WF1-066	Felt clamp	3	3	3	3	3	3	
8	274WF1-008	Felt	1	1	1	1	1	1	
9	13WF1-065	Screw	2	2	2	2	2	2	
10	13WF1-068	Felt	1	1	1	1	1	1	
11	13WF1-064	Block groove	1	1	1	1	1	1	
12	274WF1-012	Needle bar rocking frame	1	1	1	1	1	1	
13	13WF1-059	Collar	1	1	1	1	1	1	
14	19WF3-005	Screw	1	1	1	1	1	1	
15	274WF1-007	Screw	1	1	1	1	1	1	
16	274WF1-006	Needle bar connector	1	1	1	1	1	1	
17	13WF1-043	Block	1	1	1	1	1	1	
18	274WF1-009	Screw	1	1	1	1	1	1	
19	274WF1-010	Pin	1	1	1	1	1	1	
20	274WF1-013	Thread take-up lever	1	1	1	1	1	1	
21	274WF1-011	Bush	1	1	1	1	1	1	
22	89WF5-017	Screw	2	2	2	2	2	2	
23	13WF1-073	Retaining ring	4	4	4	4	4	4	
24	15X19X17	Needle bearing	2	2	2	2	2	2	
25	13WF1-072	Bush	2	2	2	2	2	2	
26	274WF2-029	Needle plate	1	/	/	/	/	/	
	276WF2-002	Needle plate	/	1	/	/	/	/	
	310WF2-013	Needle plate	/	/	1	/	/	1	
	319WF2-003	Needle plate	/	/	/	1	1	/	
27	274WF2-030	Screw	2	2	2	2	2	2	

## 7. Thread tension mechanism

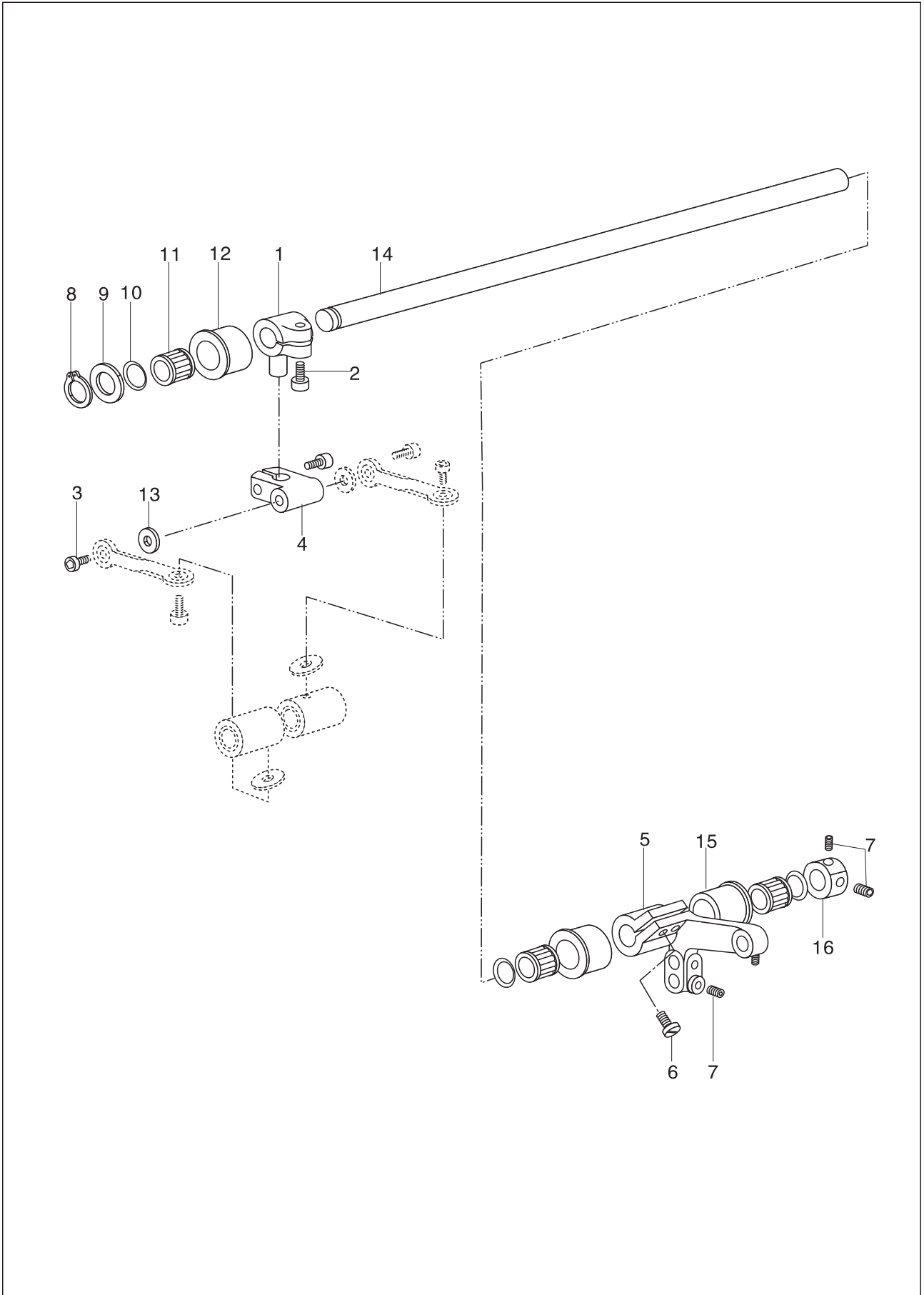




## 7. Thread tension mechanism

No	PARTS NO.	PARTS NAME	QTY						REMARK
			621	621CX	621-D1	621CX-D1	621-D2	621CX-D2	
1	274WF2-019Q	Stopper	1	1	1	1	1	1	
2	274WF2-019P	Thread take-up spring	1	1	1	1	1	1	
3	13WF2-018	Screw	1	1	1	1	1	1	
4	274WF2-019M	Washer	1	1	1	1	1	1	
5	274WF2-019L	Upper thread guide	1	1	1	1	1	1	
6	274WF2-019N	Shaft	1	1	1	1	1	1	
7	42WF2-010	Screw	1	1	1	1	1	1	
8	274WF2-005	Screw	2	2	2	2	2	2	
9	274WF2-019K	Tension release pin	1	1	1	1	1	1	
10	GB896 3.5	Retaining ring	2	2	2	2	2	2	
11	274WF2-019E	Tension release disc	1	1	1	1	1	1	
12	274WF2-019A3	Pin	2	2	2	2	2	2	
13	274WF2-019A1	Plate	1	1	1	1	1	1	
14	274WF2-019A2	Screw shaft	1	1	1	1	1	1	
15	274WF2-019A5	Screw shaft	1	1	1	1	1	1	
16	274WF2-019A6	Pin	1	1	1	1	1	1	
17	274WF2-019A4	Pin	1	1	1	1	1	1	
18	274WF2-019A7	Pin	1	1	1	1	1	1	
19	274WF2-019B	Tension disc	2	2	2	2	2	2	
20	274WF2-019C	Tension spring	1	1	1	1	1	1	
21	274WF2-019D	Nut	1	1	1	1	1	1	
22	GB/T6170 M4	Nut	1	1	1	1	1	1	
23	123WF3-094	Screw	1	1	1	1	1	1	
24	274WF2-019F	Tension disc	2	2	2	2	2	2	
25	274WF2-019G	Tension release disc	1	1	1	1	1	1	
26	274WF2-019H	Spring	1	/	1	/	/	1	
	276WF2-001A	Spring	/	1	/	1	1	/	
27	274WF2-019I	Stopper disc	1	1	1	1	1	1	
28	274WF2-019J	Nut	1	1	1	1	1	1	
29	274WF2-019R	Screw	1	1	1	1	1	1	
30	274WF2-019S	Washer	1	1	1	1	1	1	
31	274WF2-019T	Thread controller assy.	1	1	1	1	1	1	
32	274WF2-019U	Nut	1	1	1	1	1	1	
33	274WF2-017	Screw	1	1	1	1	1	1	
34	274WF2-016	Lower thread guide	1	1	1	1	1	1	
35	274WF2-018	Washer	1	1	1	1	1	1	
36	274WF2-015	Thread guide	1	1	1	1	1	1	
37	274WF2-020	Pin	1	1	/	/	/	/	
	310WF2-004	Pin	/	/	1	1	1	1	

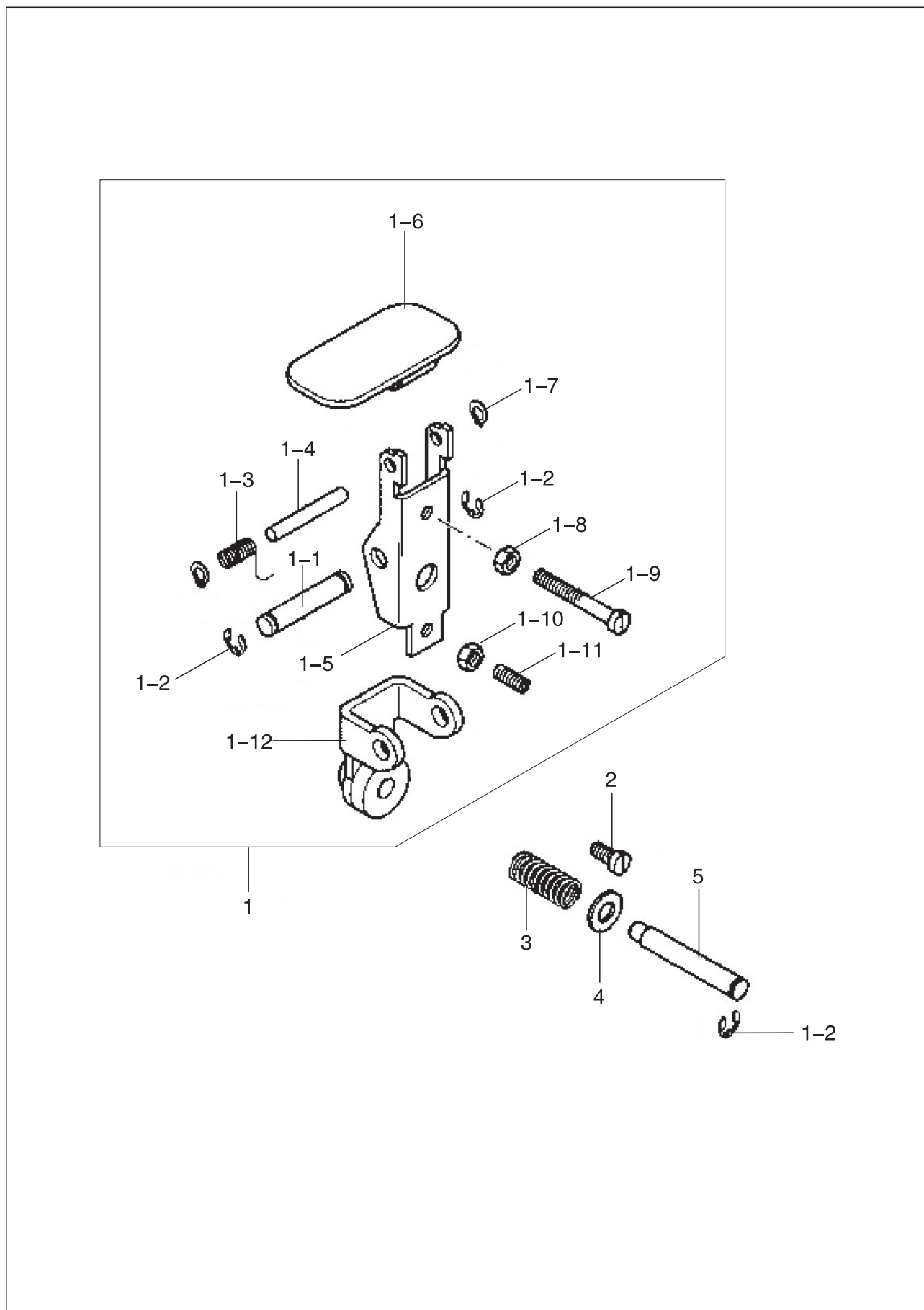
## 8. Lower feed mechanism



## 8. Lower feed mechanism

No	PARTS NO.	PARTS NAME	QTY						REMARK
			621	621CX	621-D1	621CX-D1	621-D2	621CX-D2	
1	274WF3-005	Crank	1	1	1	1	1	1	
2	53WF3-008	Screw	1	1	1	1	1	1	
3	89WF2-016	Screw	3	3	3	3	3	3	
4	274WF3-004	Connector	1	1	1	1	1	1	
5	274WF3-012	Crank	1	1	1	1	1	1	
6	80WF6-028	Screw	2	2	2	2	2	2	
7	19WF3-005	Screw	4	4	4	4	4	4	
8	GB894.1 15	Retaining ring	1	1	1	1	1	1	
9	13WF3-002	Washer	1	1	1	1	1	1	
10	13WF1-073	Retaining ring	6	6	6	6	6	6	
11	15X19X17	Needle bearing	3	3	3	3	3	3	
12	13WF1-072	Bush	2	2	2	2	2	2	
13	13WF3-037	Felt	2	2	2	2	2	2	
14	274WF3-013	Lower feed shaft	1	1	1	1	1	1	
15	13WF3-012	Bush	1	1	1	1	1	1	
16	274WF3-014	Collar	1	1	1	1	1	1	

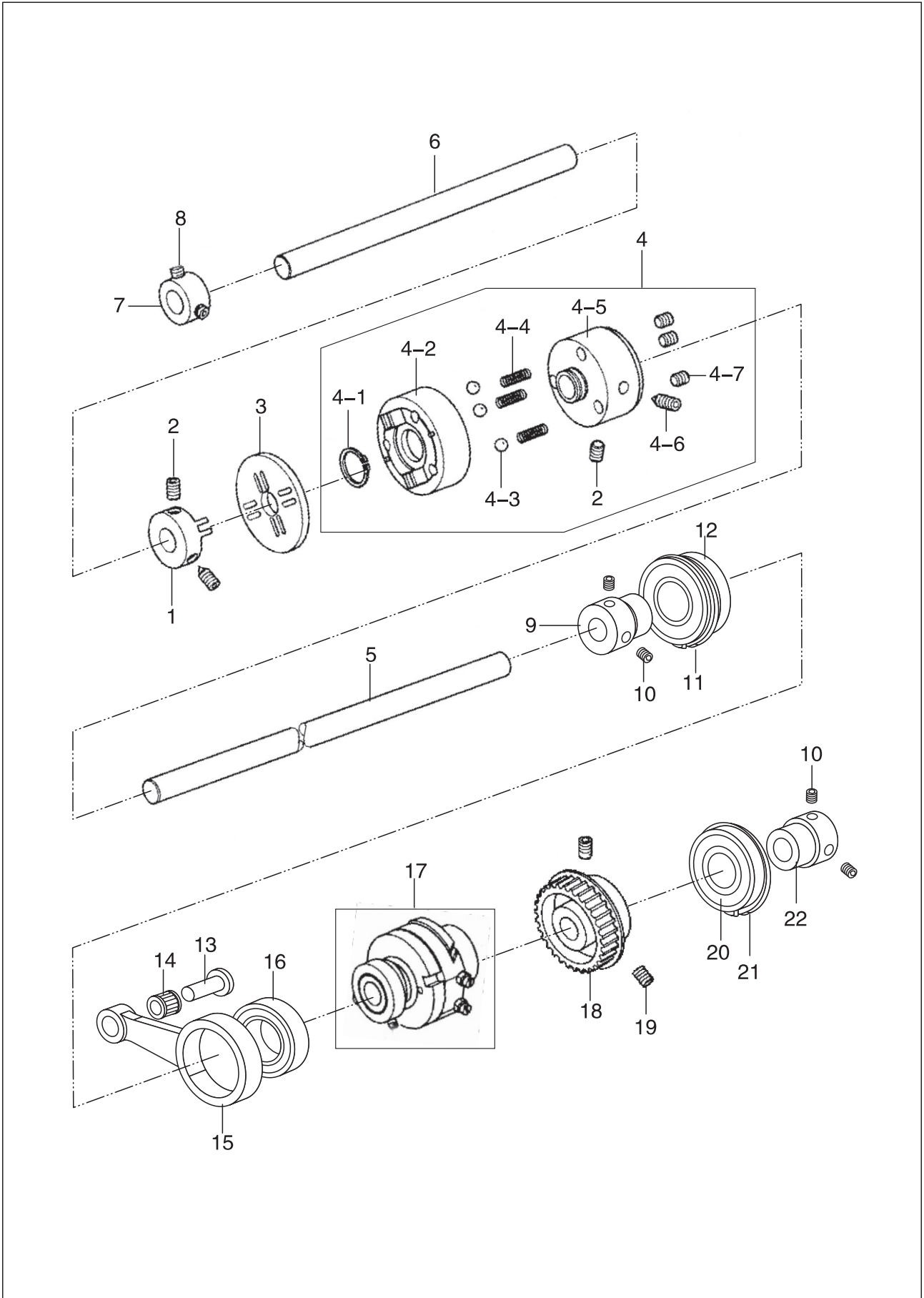
## 9. Stitch length regulating mechanism



## 9. Stitch length regulating mechanism

No	PARTS NO.	PARTS NAME	QTY						REMARK
			621	621CX	621-D1	621CX-D1	621-D2	621CX-D2	
1	274WF3-024	Stitch length regulating assy.	1	1	1	1	1	1	
1-1	274WF3-024H	Pin	1	1	1	1	1	1	
1-2	GB896 4	Retaining ring	3	3	3	3	3	3	
1-3	274WF3-024D	Spring	1	1	1	1	1	1	
1-4	274WF3-024C	Spring pin	1	1	1	1	1	1	
1-5	274WF3-024B	Lever	1	1	1	1	1	1	
1-6	274WF3-024A	Press plate assy.	1	1	1	1	1	1	
1-7	GB894.1 4	Retaining ring	1	1	1	1	1	1	
1-8	4KT2-008	Nut	1	1	1	1	1	1	
1-9	274WF3-024E	Screw	1	1	1	1	1	1	
1-10	19WF3-003	Nut	1	1	1	1	1	1	
1-11	274WF3-024F	Screw	1	1	1	1	1	1	
1-12	274WF3-024G	Bracket assy.	1	1	1	1	1	1	
2	13WF2-040	Screw	1	1	1	1	1	1	
3	274WF3-024J	Spring	1	1	1	1	1	1	
4	72WF2-010	Washer	1	1	1	1	1	1	
5	274WF3-024I	Regulating pin	1	1	1	1	1	1	

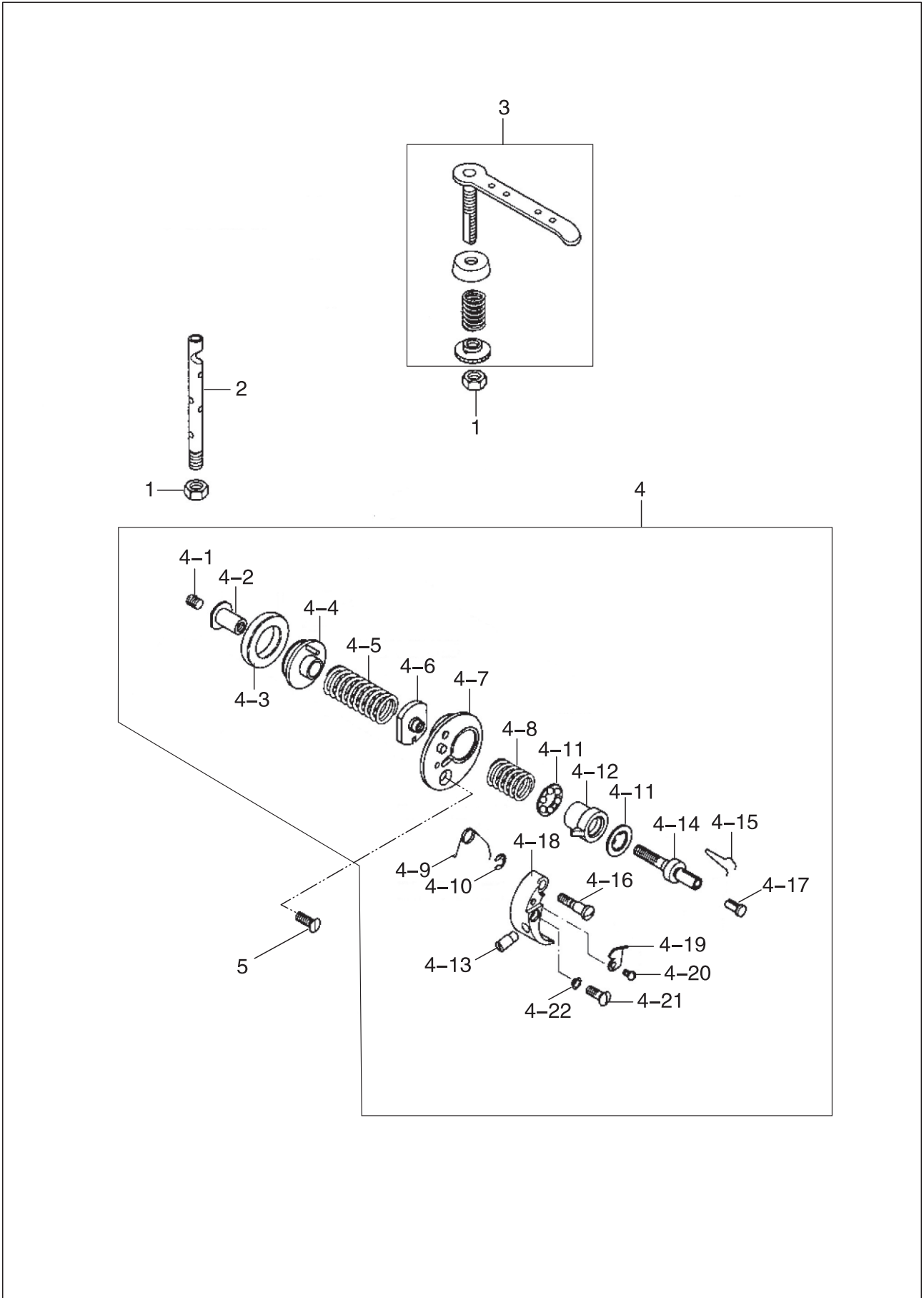
# 10. Safety clutch mechanism



## 10. Safety clutch mechanism

No	PARTS NO.	PARTS NAME	QTY						REMARK
			621	621CX	621-D1	621CX-D1	621-D2	621CX-D2	
1	274WF1-031	Coupling joint, L	1	1	1	1	1	1	
2	274WF1-029C	Screw	3	3	3	3	3	3	
3	274WF1-030	Coupling plate	1	1	1	1	1	1	
4	274WF1-029	Safety clutch	1	1	1	1	1	1	
4-1	GB894.1 16	Retaining ring	1	1	1	1	1	1	
4-2	274WF1-029F	Coupling joint, R	1	1	1	1	1	1	
4-3	Φ6.35	Steel ball	3	3	3	3	3	3	
4-4	274WF1-029D	Spring	3	3	3	3	3	3	
4-5	274WF1-029A	Coupling base	1	1	1	1	1	1	
4-6	274WF1-029B	Screw	1	1	1	1	1	1	
4-7	274WF1-029E	Screw	3	3	3	3	3	3	
5	274WF1-026	Lower shaft (R)	1	1	1	1	1	1	
6	319WF1-001	Lower shaft (L)	1	1	1	1	1	1	
7	274WF1-032	Collar	3	3	3	3	3	3	
8	80WF6-036	Screw	6	6	6	6	6	6	
9	274WF1-028	Bush	1	1	/	/	/	/	
10	274WF1-019	Screw	4	4	2	2	2	2	
11	15X35X11	Snap ring	1	1	1	1	1	1	
12	15202 15X35X11	Bearing	1	1	1	1	1	1	
13	274WF3-015	Pin	1	1	1	1	1	1	
14	8X11X10	Needle bearing	1	1	1	1	1	1	
15	274WF3-016	Link	1	1	1	1	1	1	
16	30X47X9	Bearing	1	1	1	1	1	1	
17	274WF3-032	Feed regulating assy.	1	1	1	1	1	1	
18	274WF1-025	Lower pulley	1	1	1	1	1	1	
19	72WF2-014	Screw	2	2	2	2	2	2	
20	15203Z 17X40X12	Bearing	1	1	1	1	1	1	
21	1WF2-081	Snap ring	1	1	1	1	1	1	
22	13WF1-070	Bush	1	1	1	1	1	1	

# 11. Bobbin thread winding mechanism

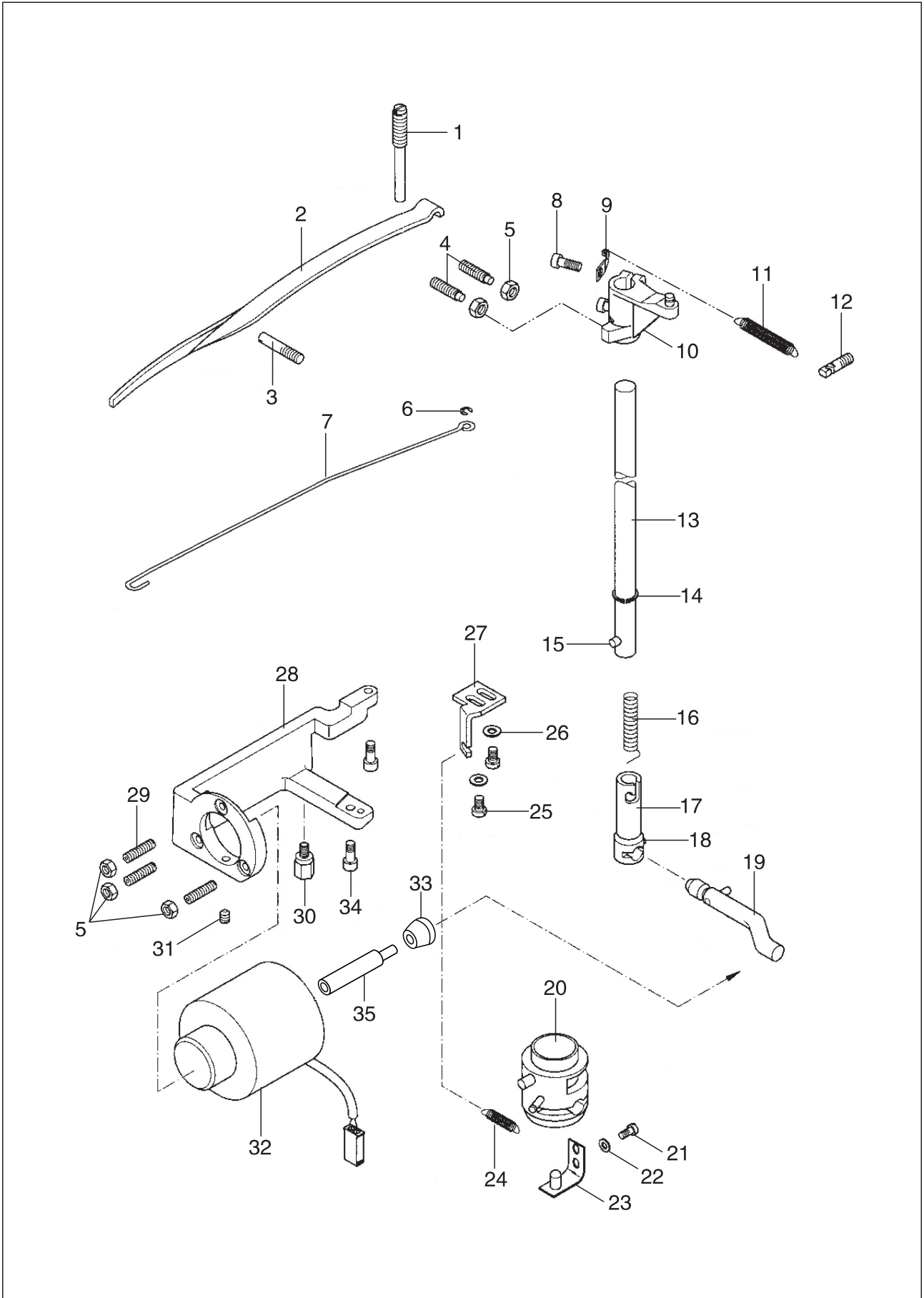




## 11. Bobbin thread winding mechanism

No	PARTS NO.	PARTS NAME	QTY						REMARK
			621	621CX	621-D1	621CX-D1	621-D2	621CX-D2	
1	GB/T6170 M6	Nut	2	2	2	2	2	2	
2	274WF2-013	Thread guide	1	1	1	1	1	1	
3	71WF2-015	Bobbin thread guide	1	1	1	1	1	1	
4	274WF2-014	Bobbin thread winder assy.	1	1	1	1	1	1	
4-1	42WF2-010	Screw	1	1	1	1	1	1	
4-2	274WF2-014G	Pin	1	1	1	1	1	1	
4-3	274WF2-014H	Rubber ring	1	1	1	1	1	1	
4-4	274WF2-014I	Friction wheel	1	1	1	1	1	1	
4-5	274WF2-014J	Spring	1	1	1	1	1	1	
4-6	274WF2-014K	Plate	1	1	1	1	1	1	
4-7	274WF2-014L	Base assy.	1	1	1	1	1	1	
4-8	274WF2-014M	Spring	1	1	1	1	1	1	
4-9	274WF2-014F	Spring	1	1	1	1	1	1	
4-10	GB896 3	Retaining ring	1	1	1	1	1	1	
4-11	6X11	Bearing	2	2	2	2	2	2	
4-12	274WF2-014N	Ring	1	1	1	1	1	1	
4-13	274WF2-014C	Pin	1	1	1	1	1	1	
4-14	274WF2-014Q	Winding shaft	1	1	1	1	1	1	
4-15	274WF2-014P	Snap ring	1	1	1	1	1	1	
4-16	274WF2-014E	Screw	1	1	1	1	1	1	
4-17	274WF2-014R	Plug	1	1	1	1	1	1	
4-18	274WF2-014D	Link	1	1	1	1	1	1	
4-19	274WF2-014A	Cutter	1	1	1	1	1	1	
4-20	274WF2-014B	Screw	1	1	1	1	1	1	
4-21	GB/T69 M3X8	Screw	1	1	1	1	1	1	
4-22	GB860 3	Washer	1	1	1	1	1	1	
5	GB/T68 M4X8	Screw	1	1	1	1	1	1	

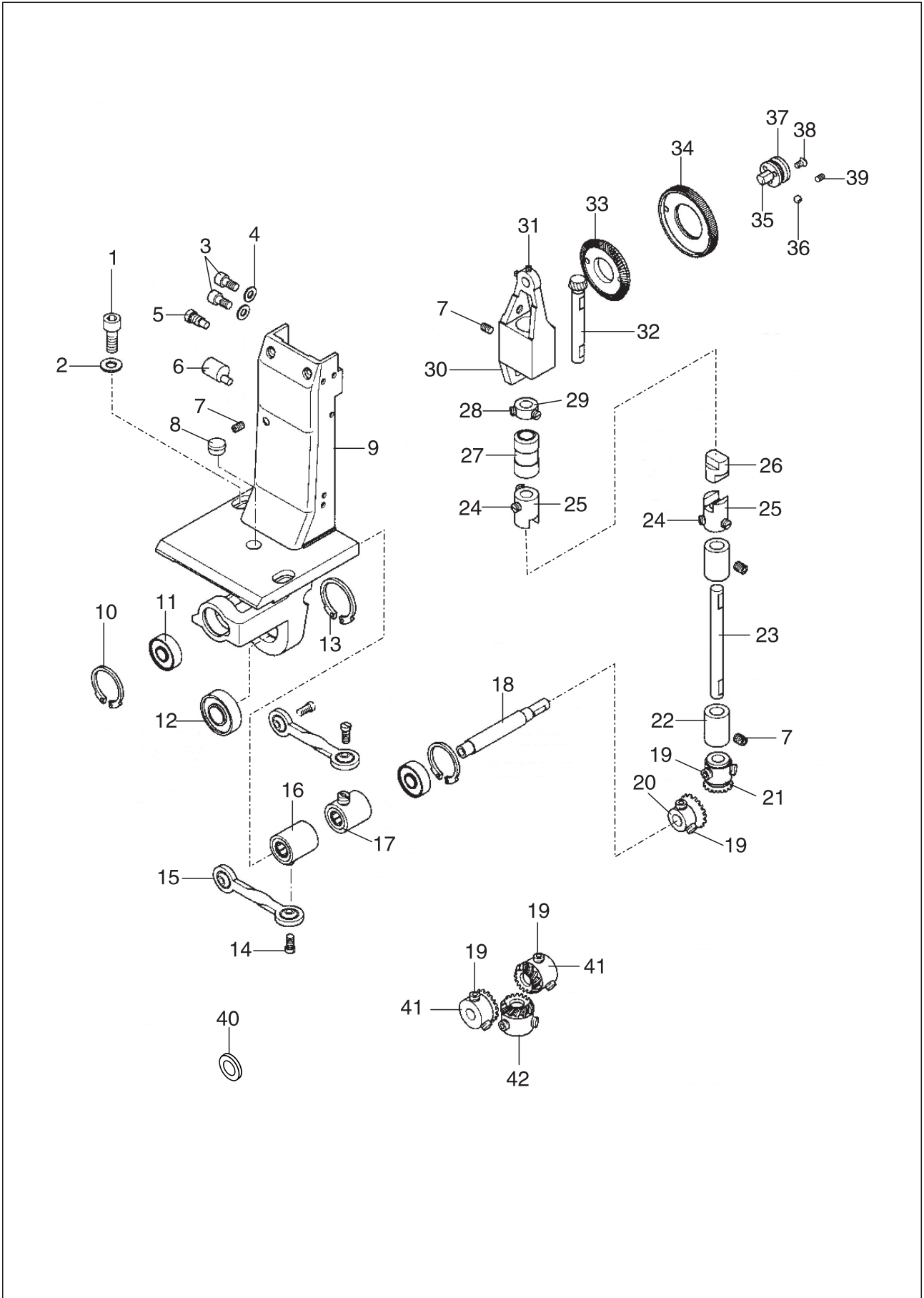
## 12. Knee lifter mechanism



## 12. Knee lifter mechanism

No	PARTS NO.	PARTS NAME	QTY						REMARK
			621	621CX	621-D1	621CX-D1	621-D2	621CX-D2	
1	13WF4-030	Screw	1	1	1	1	1	1	
2	274WF4-001	Spring plate	1	1	1	1	1	1	
3	13WF4-029	Pin	1	1	1	1	1	1	
4	274WF4-011	Screw	2	2	2	2	2	2	
5	72WF2-018	Nut	2	2	2	2	5	2	
6	GB896 3.5	Retaining ring	1	1	1	1	1	1	
7	274WF4-010	Lever	1	1	1	1	1	1	
8	80WF6-028	Screw	2	2	2	2	2	2	
9	13WF4-011	Spring hook	1	1	1	1	1	1	
10	274WF4-012	Crank	1	1	1	1	1	1	
11	274WF4-013	Spring	1	1	1	1	1	1	
12	274WF4-014	Spring hook	1	1	1	1	1	1	
13	274WF4-015	Shaft	1	1	1	1	1	1	
14	GB894.1 12	Retaining ring	1	1	1	1	1	1	
15	13WF4-002	Pin	1	1	1	1	1	1	
16	13WF5-002	Spring	1	1	1	1	1	1	
17	13WF5-001	Knee lifter coupling	1	1	1	1	/	/	
	319WF4-001	Knee lifter coupling	/	/	/	/	1	1	
18	16WF1-009	Screw	1	1	1	1	/	/	
	123WF3-094	Screw	/	/	/	/	1	1	
19	319WF4-005	Knee lifter shaft	/	/	/	/	1	1	
20	319WF4-002	Connector	/	/	/	/	1	1	
21	13WF1-067	Screw	/	/	/	/	2	2	
22	319WF4-004	Washer	/	/	/	/	2	2	
23	319WF4-003	Pin assy.	/	/	/	/	1	1	
24	319WF4-006	Spring	/	/	/	/	1	1	
25	319WF4-007	Spring hook	/	/	/	/	1	1	
26	62WF5-018	Screw	/	/	/	/	2	2	
27	13WF3-075	Washer	/	/	/	/	2	2	
28	319WF4-010	Bracket	/	/	/	/	1	1	
29	GB/T77 M6X25	Screw	/	/	/	/	3	3	
30	319WF2-007	Screw	/	/	/	/	2	2	
31	72WF2-014	Screw	/	/	/	/	1	1	
32	319WF4-008	Knee lifter solenoid	/	/	/	/	1	1	
33	319WF4-009	Plastic stopper	/	/	/	/	1	1	
34	69WF1-019	Screw	/	/	/	/	2	2	
35	319WF4-011	Shaft	/	/	/	/	1	1	

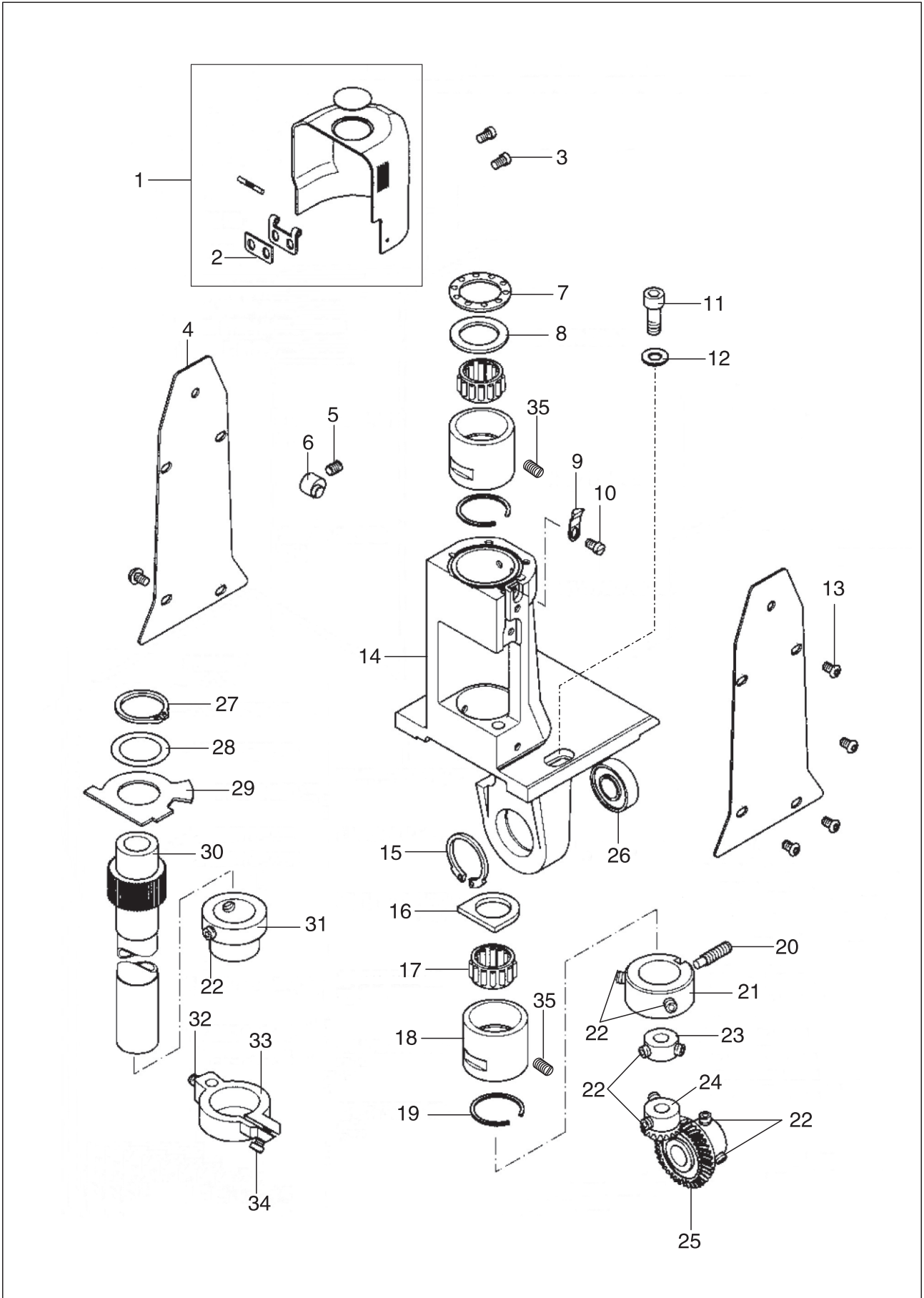
# 13. Feed post bed mechanism



### 13. Feed post bed mechanism

No	PARTS NO.	PARTS NAME	QTY						REMARK
			621	621CX	621-D1	621CX-D1	621-D2	621CX-D2	
1	274WF2-037	Screw	2	2	2	2	2	2	
2	274WF2-027	Washer	2	2	2	2	2	2	
3	274WF3-030	Screw	2	2	2	2	2	2	
4	22WF1-036	Washer	2	2	2	2	2	2	
5	13WF3-070	Screw	1	1	1	1	1	1	
6	13WF3-067	Cam	1	1	1	1	1	1	
7	123WF3-094	Screw	4	4	4	4	4	4	
8	274WF2-028	Plug	1	1	1	1	1	1	
9	274WF2-026	Post bed	1	1	1	1	1	1	
10	13WF3-079	Retaining ring	2	2	2	2	2	2	
11	8X22X7	Bearing	2	2	2	2	2	2	
12	12X28X8	Bearing	1	1	1	1	1	1	
13	274WF1-034	Retaining ring	1	1	1	1	1	1	
14	274WF3-026	Screw	2	2	2	2	2	2	
15	274WF3-025	Link assy.	2	2	2	2	2	2	
16	13WF3-041	Bush	2	2	2	2	1	1	
17	BN06014	Clutch	2	2	2	2	1	1	
18	13WF3-040	Driving shaft	1	1	1	1	1	1	
19	19WF3-005	Screw	4	4	4	4	6	6	
20	274WF3-028	Gear	1	1	1	1	1	1	
21	274WF3-029	Gear	1	1	1	1	1	1	
22	13WF3-071	Bush	2	2	2	2	2	2	
23	13WF3-066	Driving shaft	1	1	1	1	1	1	
24	22WF4-005	Screw	4	4	4	4	4	4	
25	13WF3-063	Coupling	2	2	2	2	2	2	
26	13WF3-064	Connector	1	1	1	1	1	1	
27	13WF3-061	Bush	1	1	1	1	1	1	
28	13WF3-060	Screw	2	2	2	2	2	2	
29	13WF3-059	Collar	1	1	1	1	1	1	
30	13WF3-053	Roller bracket	1	1	1	1	1	1	
31	274WF3-031	Screw	2	2	2	2	2	2	
32	13WF3-058	Driving gear	1	1	1	1	1	1	
33	13WF3-057	Driving gear	1	1	1	1	1	1	
34	13WF3-056	Roller	1	1	1	1	1	1	
35	274WF3-033	Ball support	1	1	1	1	1	1	
36	GB308-77Φ2	Ball	24	24	24	24	24	24	
37	13WF3-029	Adjusting block	1	1	1	1	1	1	
38	13WF3-031	Screw	3	3	3	3	3	3	
39	13WF3-032	Screw	3	3	3	3	3	3	
40	319WF3-036	Washer	/	/	/	/	Some	Some	
41	340WF2-016	Driven gear	/	/	/	/	2	2	
42	340WF2-013	Driving gear	/	/	/	/	1	1	

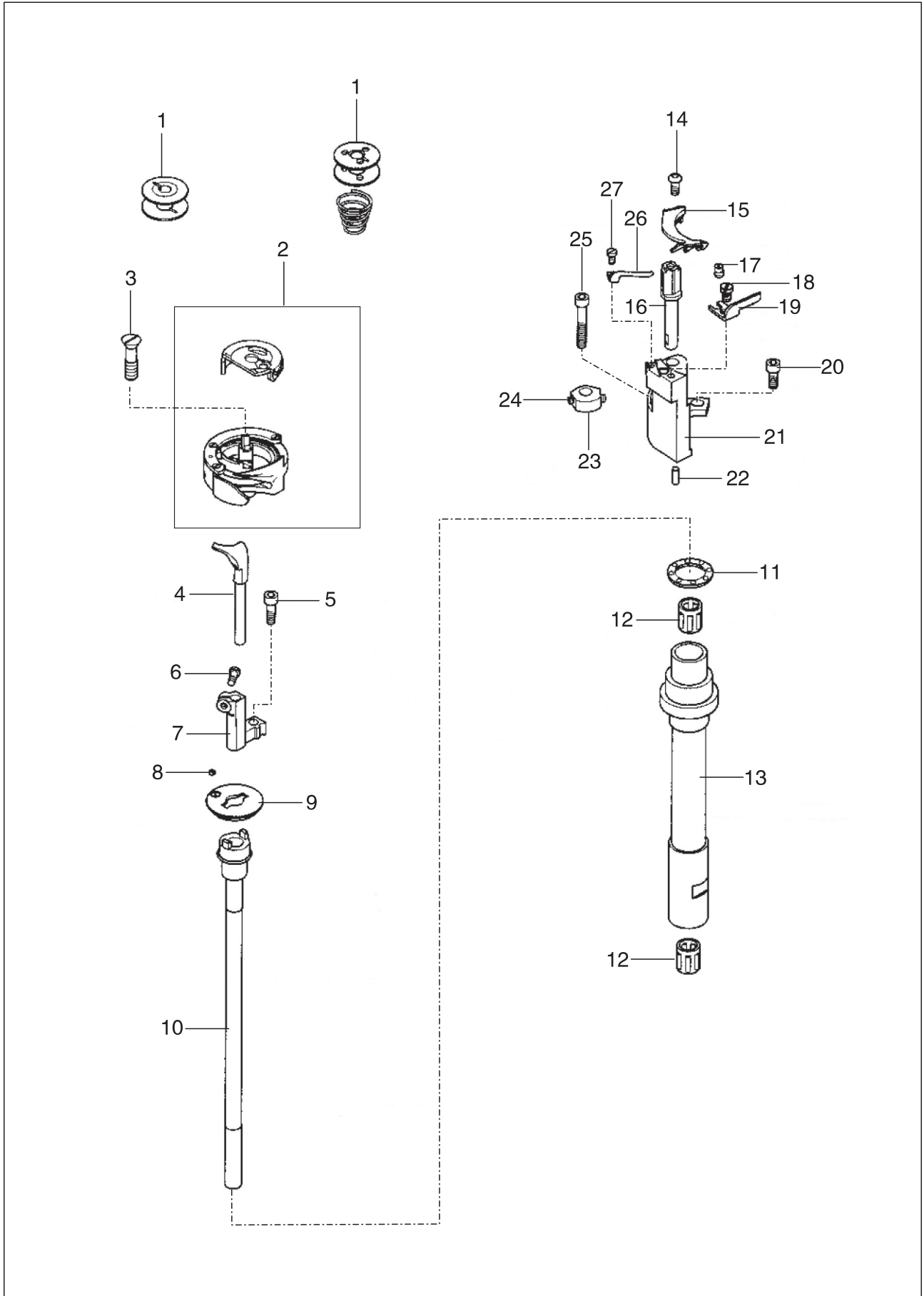
# 14. Hook post bed mechanism



## 14. Hook post bed mechanism

No	PARTS NO.	PARTS NAME	QTY						REMARK
			621	621CX	621-D1	621CX-D1	621-D2	621CX-D2	
1	274WF2-032	Hook cover assy.	1	1	/	/	/	/	
	310WF2-011	Hook cover assy.	/	/	1	1	1	1	
2	310WF2-012	Washer	/	/	1	1	1	1	
3	274WF2-033	Screw	2	2	2	2	2	2	
4	274WF2-025	Plate	2	2	1	1	1	1	
	310WF2-010	Back plate	/	/	1	1	1	1	
5	123WF3-094	Screw	2	2	2	2	2	2	
6	19WF1-005	Pin	2	2	2	2	2	2	
7	274WF1-049	Bearing	1	1	1	1	1	1	
8	274WF1-042	Washer	1	1	1	1	1	1	
9	274WF2-034	Plate	1	1	1	1	1	1	
10	274WF2-035	Screw	1	1	1	1	1	1	
11	274WF2-037	Screw	2	2	2	2	2	2	
12	274WF2-027	Washer	2	2	2	2	2	2	
13	274WF2-019R	Screw	10	10	10	10	10	10	
14	274WF2-031	Hook saddle	1	1	1	1	1	1	
15	274WF1-034	Retaining ring	1	1	1	1	1	1	
16	274WF1-041	Felt	1	1	1	1	1	1	
17	20X24X13	Needle bearing	2	2	2	2	2	2	
18	274WF1-038	Bush	2	2	2	2	2	2	
19	274WF1-039	Retaining ring	2	2	2	2	2	2	
20	274WF1-037	Screw	1	1	/	/	/	/	
21	274WF1-036	Adjusting ring	1	1	/	/	/	/	
22	19WF3-005	Screw	8	8	8	8	8	8	
23	274WF1-035	Collar	1	1	1	1	1	1	
24	13WF1-024	Gear	1	1	1	1	1	1	
25	13WF1-008	Gear, lower shaft	1	1	1	1	1	1	
26	12X28X8	Bearing	1	1	1	1	1	1	
27	GB894.1 20	Retaining ring	/	/	1	1	1	1	
28	310WF3-011	Washer	/	/	1	1	1	1	
29	277WF3-008	Rubber pad	/	/	1	1	1	1	
30	310WF3-010	Gear	/	/	1	1	1	1	
31	310WF3-012	Collar	/	/	1	1	1	1	
32	80WF6-036	Screw	/	/	1	1	1	1	
33	310WF3-013	Crank	/	/	1	1	1	1	
34	89WF2-016	Screw	/	/	1	1	1	1	
35	123WF3-033	Screw	2	2	2	2	2	2	

# 15. Hook mechanism

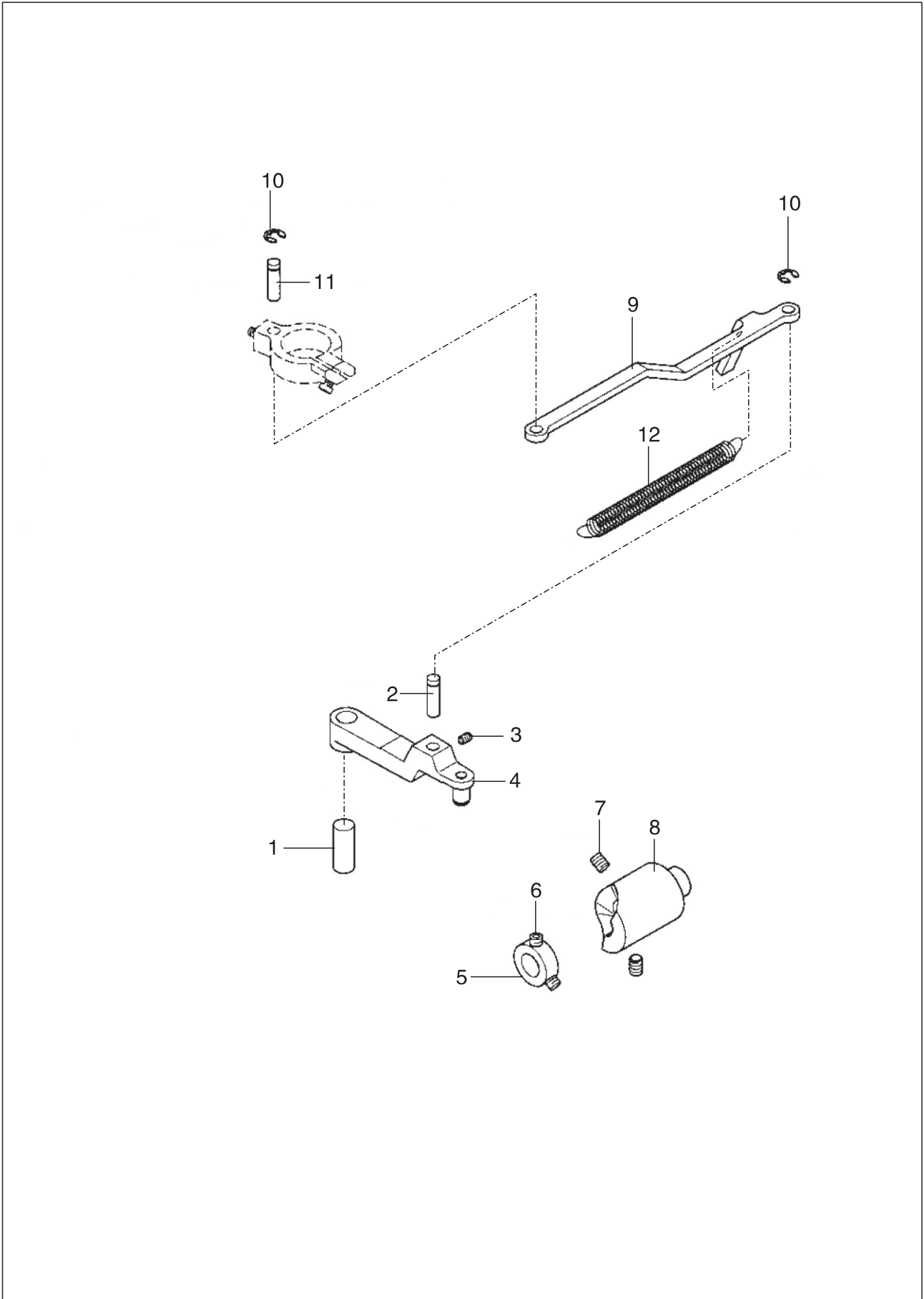




## 15. Hook mechanism

No	PARTS NO.	PARTS NAME	QTY						REMARK
			621	621CX	621-D1	621CX-D1	621-D2	621CX-D2	
1	274WF1-001	Bobbin	1	1	/	/	/	/	
	310WF1-001	Bobbin	/	/	1	1	1	1	
2	274WF1-046	Hook	1	/	1	/	/	1	
	276WF1-002	Hook	/	1	/	1	1	/	
3	13WF1-010	Screw	1	1	1	1	1	1	
4	274WF1-027	Bobbin thread opener	1	1	1	1	1	1	
5	6K2-019	Screw	1	1	1	1	1	1	
6	13WF1-067	Screw	1	1	1	1	1	1	
7	274WF1-047	Bracket, opener	1	1	1	1	1	1	
8	274WF1-045	O-ring	1	1	1	1	1	1	
9	274WF1-044	Hook saddle	1	1	1	1	1	1	
10	274WF1-043	Hook shaft	1	1	1	1	1	1	
11	274WF1-048	Bearing	1	1	1	1	1	1	
12	8X11X13	Needle bearing	2	2	2	2	2	2	
13	274WF1-040	Bush	1	1	/	/	/	/	
14	274WF2-019R	Screw	/	/	1	1	1	1	
15	310WF3-005	Movable knife	/	/	1	1	1	1	
16	310WF3-008	Shaft, movable knife	/	/	1	1	1	1	
17	310WF3-002	Eccentric pin	/	/	1	1	1	1	
18	22WF4-020	Screw	/	/	1	1	1	1	
19	310WF3-001	Fixed knife	/	/	1	1	1	1	
20	89WF2-016	Screw	/	/	1	1	1	1	
21	310WF3-006A	Bracket, knife	/	/	1	1	1	1	
22	310WF3-006B	Pin	/	/	1	1	1	1	
23	310WF3-009	Driving gear	/	/	1	1	1	1	
24	123WF3-033	Screw	/	/	1	1	1	1	
25	310WF3-007	Screw	/	/	1	1	1	1	
26	310WF3-003	Thread holder	/	/	1	1	1	1	
27	310WF3-004	Screw	/	/	1	1	1	1	

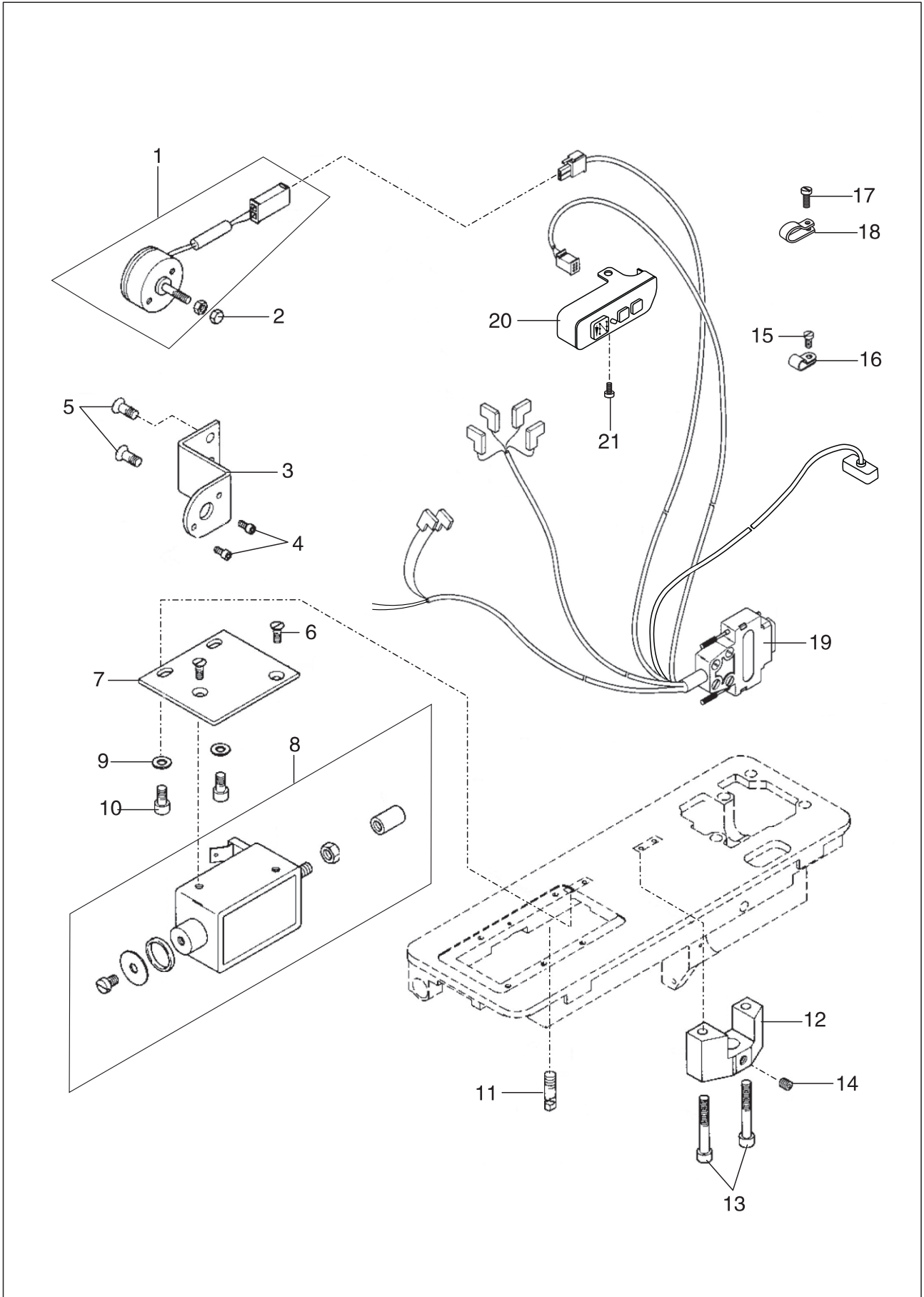
# 16. Thread trimming driving mechanism



## 16. Thread trimming driving mechanism

No	PARTS NO.	PARTS NAME	QTY						REMARK
			621	621CX	621-D1	621CX-D1	621-D2	621CX-D2	
1	310WF3-021	Pin	/	/	1	1	1	1	
2	310WF3-024	Pin shaft	/	/	1	1	1	1	
3	42WF2-010	Screw	/	/	1	1	1	1	
4	310WF3-022	Driving lever assy.	/	/	1	1	1	1	
5	240WF3-007A	Collar	/	/	1	1	1	1	
6	50WF1-041	Screw	/	/	2	2	2	2	
7	310WF3-026	Screw	/	/	2	2	2	2	
8	310WF3-025	Trimming cam	/	/	1	1	1	1	
9	310WF3-023	Link	/	/	1	1	1	1	
10	GB896 4	Retaining ring	/	/	2	2	2	2	
11	310WF3-014	Pin shaft	/	/	1	1	1	1	
12	310WF3-015	Spring	/	/	1	1	1	1	

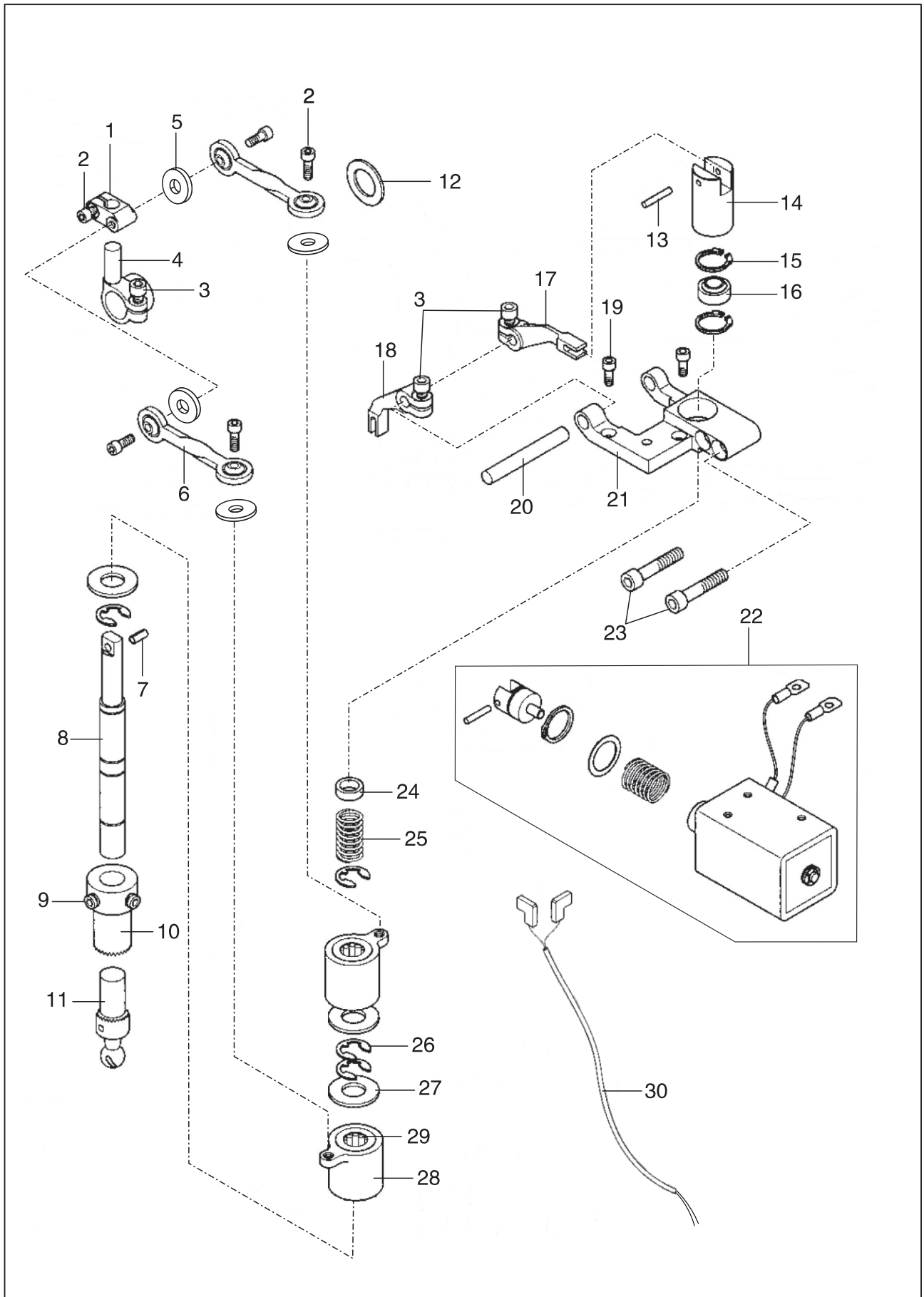
# 17. Solenoid mechanism



## 17. Solenoid mechanism

No	PARTS NO.	PARTS NAME	QTY						REMARK
			621	621CX	621-D1	621CX-D1	621-D2	621CX-D2	
1	310WF2-008	Tension release solenoid	/	/	1	1	1	1	
2	310WF2-008B	Pin	/	/	1	1	1	1	
3	310WF2-005	Bracket, release solenoid	/	/	1	1	1	1	
4	310WF2-007	Screw	/	/	2	2	2	2	
5	310WF2-006	Screw	/	/	2	2	2	2	
6	310WF3-018	Screw	/	/	2	2	2	2	
7	310WF3-017	Bracket, trimming solenoid	/	/	1	1	1	1	
8	310WF3-016	Trimming solenoid	/	/	1	1	1	1	
9	36WF4-011	Washer	/	/	2	2	2	2	
10	53WF5-008	Screw	/	/	2	2	2	2	
11	274WF4-014	Spring hook	/	/	1	1	1	1	
12	310WF3-019	Bracket	/	/	1	1	1	1	
13	310WF3-020	Screw	/	/	2	2	2	2	
14	80WF6-036	Screw	/	/	1	1	1	1	
15	89WF2-016	Screw	/	/	2	/	2	2	
	18WF3-021	Screw	/	/	/	/	1	1	
16	80WF5-014	Wire clamp	/	/	2	/	1	1	
17	13WF1-067	Screw	/	/	1	/	1	/	
	13WF2-040	Screw	/	/	/	1	1	1	
	62WF5-018	Screw	/	/	/	1	1	1	
18	274WF5-004	Wire clamp	/	/	1	2	2	2	
	84WF1-022	Wire clamp	/	/	/	/	2	2	
19	310WF2-014	Connector	/	/	1	1	1	1	
20	319WF2-004	Button	/	/	/	/	1	1	
21	274WF2-005	Screw	/	/	/	/	1	1	

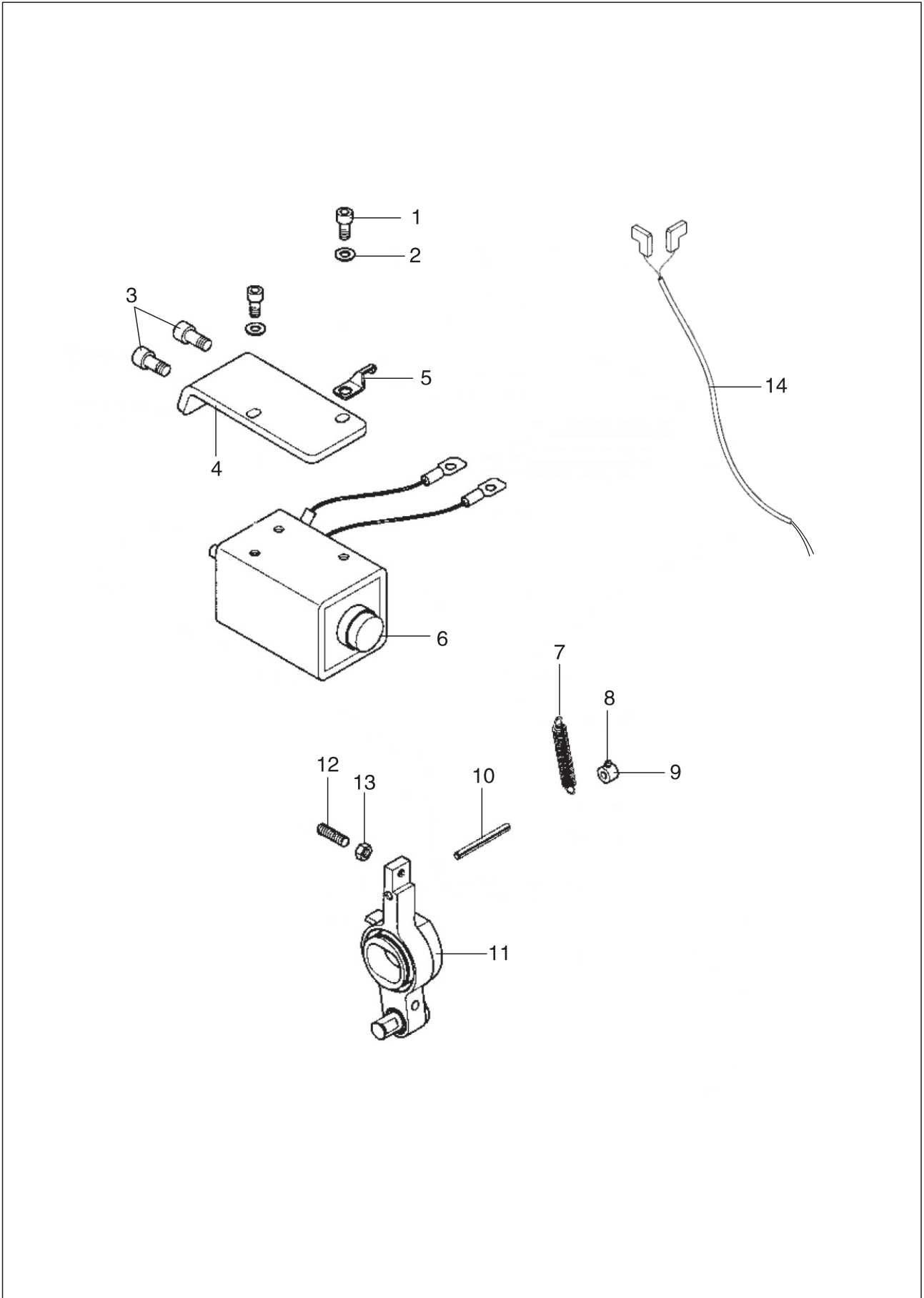
# 18. Upper reverse feed mechanism



## 18. Upper reverse feed mechanism

No	PARTS NO.	PARTS NAME	QTY						REMARK
			621	621CX	621-D1	621CX-D1	621-D2	621CX-D2	
1	319WF3-014	Connector	/	/	/	/	1	1	
2	89WF2-016	Screw	/	/	/	/	5	5	
3	53WF5-008	Screw	/	/	/	/	3	3	
4	274WF3-005	Crank	/	/	/	/	1	1	
5	13WF3-037	Felt	/	/	/	/	4	4	
6	319WF3-013	Link	/	/	/	/	2	2	
7	GB/T879.1 3X10	Pin	/	/	/	/	1	1	
8	319WF3-003	Shaft	/	/	/	/	1	1	
9	19WF3-005	Screw	/	/	/	/	2	2	
10	319WF3-002	Gear	/	/	/	/	1	1	
11	319WF3-001	Shaft	/	/	/	/	1	1	
12	13WF3-002	Washer	/	/	/	/	1	1	
13	319WF3-006B	Pin	/	/	/	/	1	1	
14	319WF3-006A	Bush	/	/	/	/	1	1	
15	13WF3-078	Retaining ring	/	/	/	/	2	2	
16	GE8E	Bearing	/	/	/	/	1	1	
17	319WF3-010	Driving crank	/	/	/	/	1	1	
18	319WF3-009	Crank	/	/	/	/	1	1	
19	18WF3-021	Screw	/	/	/	/	2	2	
20	319WF3-011	Pin	/	/	/	/	1	1	
21	319WF3-007	Bracket, reverse solenoid	/	/	/	/	1	1	
22	319WF3-012	Reverse solenoid	/	/	/	/	1	1	
23	319WF3-008	Screw	/	/	/	/	2	2	
24	319WF3-005	Ring	/	/	/	/	1	1	
25	319WF3-004	Spring	/	/	/	/	1	1	
26	GB896 8	Retaining ring	/	/	/	/	4	4	
27	13WF3-023	Washer	/	/	/	/	4	4	
28	13WF3-022	Bush	/	/	/	/	2	2	
29	BN06014	Clutch	/	/	/	/	2	2	
30	319WF2-005	Wire	/	/	/	/	1	1	

# 19. Needle bar reverse solenoid mechanism

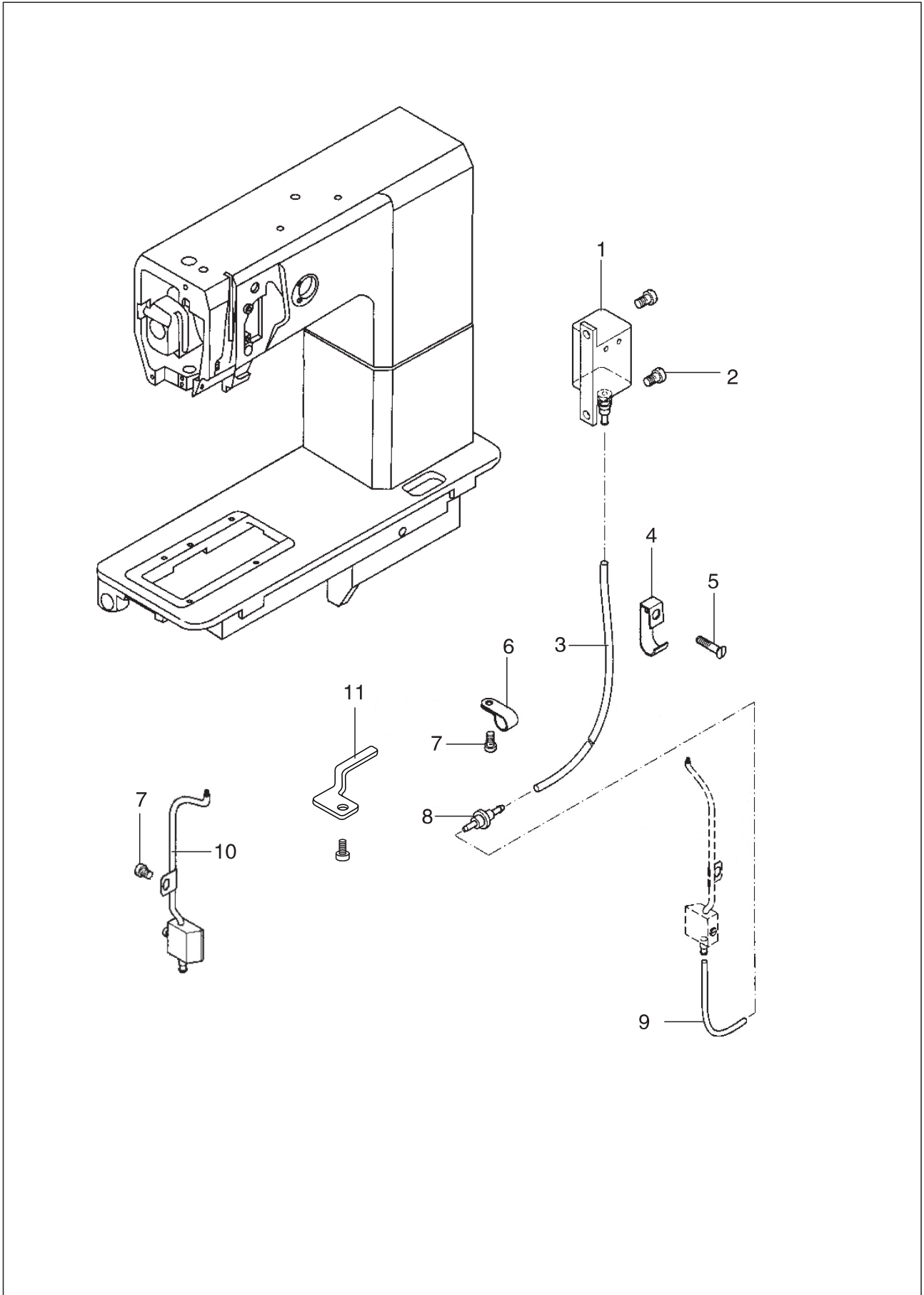




## 19. Needle bar reverse solenoid mechanism

No	PARTS NO.	PARTS NAME	QTY						REMARK
			621	621CX	621-D1	621CX-D1	621-D2	621CX-D2	
1	18WF3-021	Screw	/	/	/	/	2	2	
2	2KT7-009	Washer	/	/	/	/	1	1	
3	80WF6-028	Screw	/	/	/	/	2	2	
4	319WF3-016	Bracket	/	/	/	/	1	1	
5	13WF4-011	Spring hook	/	/	/	/	1	1	
6	319WF3-015	Solenoid assy.	/	/	/	/	1	1	
7	319WF3-017	Spring	/	/	/	/	1	1	
8	319WF3-020	Screw	/	/	/	/	2	2	
9	319WF3-019	Retaining ring	/	/	/	/	1	1	
10	GB/T879.1 3X35	Pin	/	/	/	/	1	1	
11	319WF3-018A	Slide plate	/	/	/	/	1	1	
12	319WF3-021	Screw	/	/	/	/	1	1	
13	72WF4-006	Nut	/	/	/	/	1	1	
14	319WF2-011	Wire	/	/	/	/	1	1	

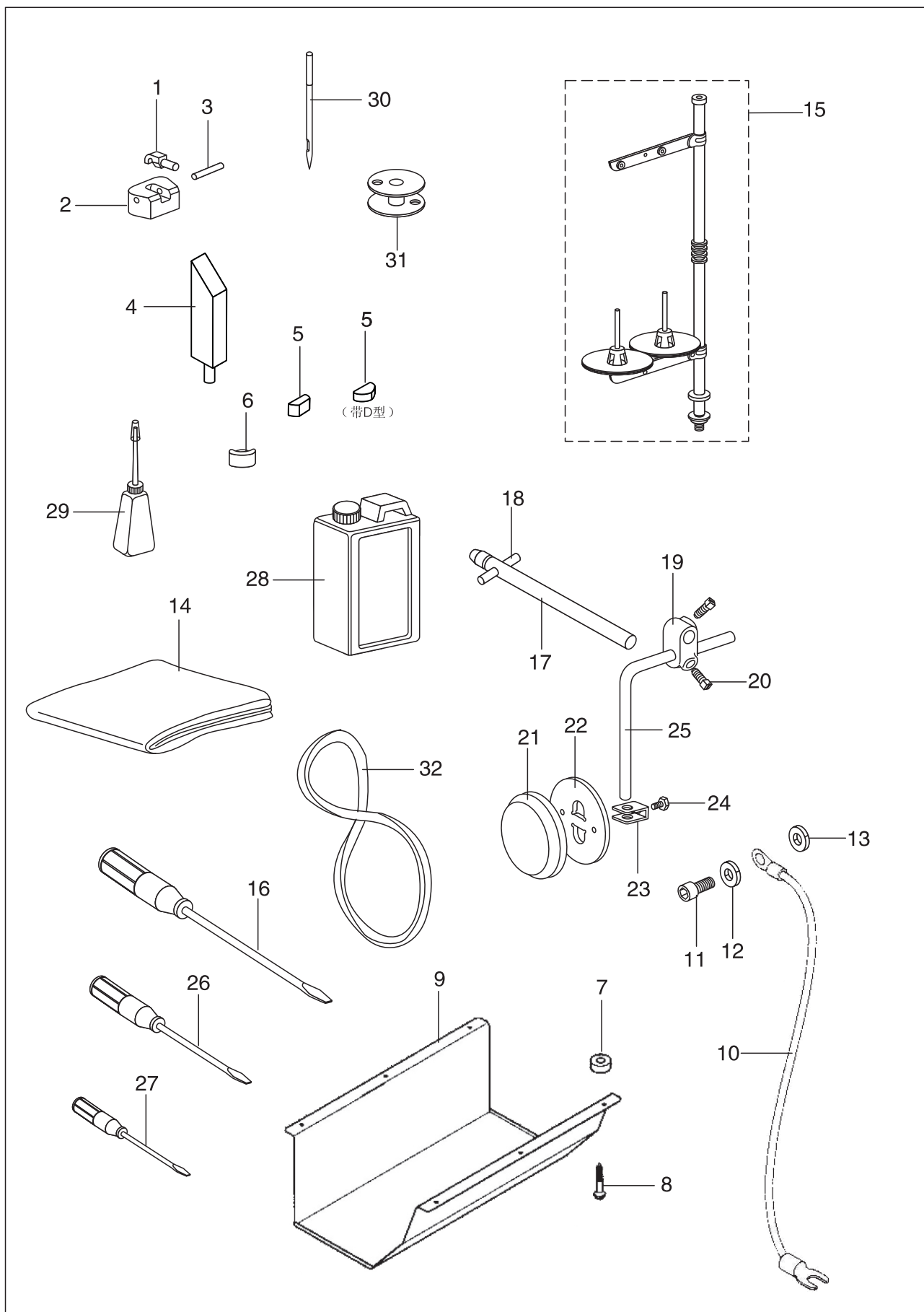
## 20. Lubrication mechanism



## 20. Lubrication mechanism

No	PARTS NO.	PARTS NAME	QTY						REMARK
			621	621CX	621-D1	621CX-D1	621-D2	621CX-D2	
1	274WF5-001	Oil box assy.	1	1	1	1	1	1	
2	13WF7-015	Screw	2	2	2	2	2	2	
3	φ5X450	Oil pipe	1	1	1	1	1	1	
4	274WF5-002	Clamp	1	1	1	1	1	1	
5	274WF5-003	Screw	1	1	1	1	1	1	
6	274WF5-004	Clamp	1	1	1	1	1	1	
7	13WF1-067	Screw	2	2	3	3	3	3	
8	274WF5-005	Connector	1	1	1	1	1	1	
9	φ5X138	Oil pipe	1	1	1	1	1	1	
10	274WF5-006	Pipe assy.	1	1	1	1	1	1	
11	277WF5-002	Plate	/	/	1	1	1	1	

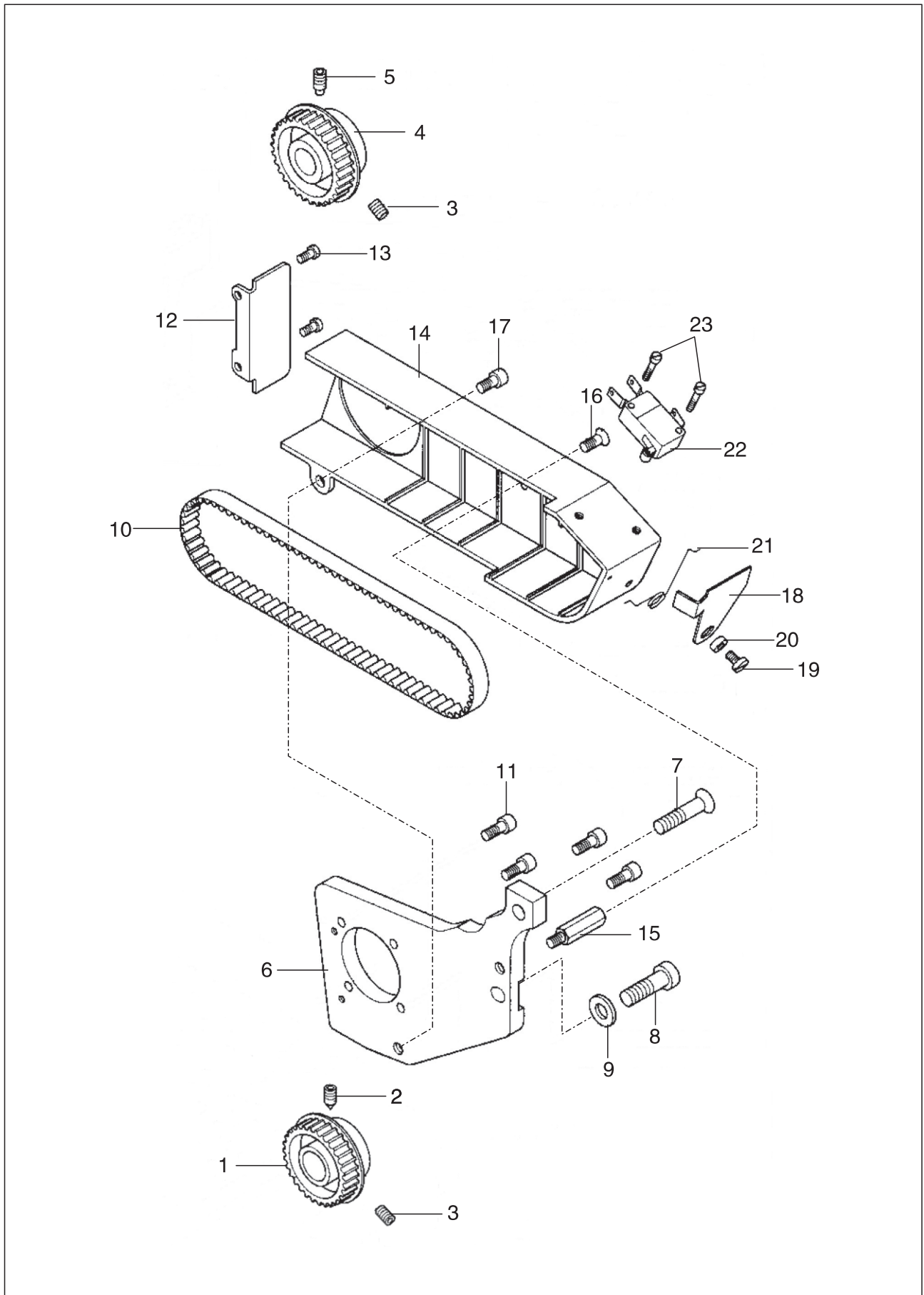
## 21. Accessories



## 21. Accessories

No	PARTS NO.	PARTS NAME	QTY						REMARK
			621	621CX	621-D1	621CX-D1	621-D2	621CX-D2	
1	13WF7-003	Pin shaft	2	2	2	2	2	2	
2	274WF6-011	Cushion	2	2	2	2	2	2	
3	274WF6-010	Hinge	2	2	2	2	2	2	
4	274WF6-009	Machine head support	/	/	1	1	1	1	
	343WF1-001	Machine head support	1	1	/	/	/	/	
5	274WF6-014	Pad, small	/	/	2	2	2	2	
6	13WF7-005	Pad, big	2	2	2	2	2	2	
7	274WF6-008	Oil pan pad	6	6	6	6	6	6	
8	GB950 4X16	Screw	6	6	6	6	6	6	
9	274WF6-007	Oil pan	1	1	1	1	1	1	
10	274WF6-015	Ground wire	1	1	1	1	1	1	
11	GB/T70.1 M5X10	Screw	1	1	1	1	1	1	
12	GB/T95 5	Washer	1	1	1	1	1	1	
13	GB862.2 5	Washer	1	1	1	1	1	1	
14	13F-002	Head cover	1	1	1	1	1	1	
15	113F-001	Thread stand	1	1	1	1	1	1	
16	33TF-012	Screwdriver	1	1	1	1	1	1	
17	13WF5-004	Knee lifter shaft	1	1	1	1	1	1	
18	13WF5-005	Pin	1	1	1	1	1	1	
19	13WF5-006	Connector	1	1	1	1	1	1	
20	22T9-003B4	Screw	2	2	2	2	2	2	
21	1KT5-006	Pad	1	1	1	1	1	1	
22	1KT5-005	Plate	1	1	1	1	1	1	
23	22T9-003B6	Bracket	1	1	1	1	1	1	
24	22T9-003B7	Screw	1	1	1	1	1	1	
25	22T9-003B2	Bent lever	1	1	1	1	1	1	
26	33TF-013	Screwdriver	1	1	1	1	1	1	
27	33TF-014	Screwdriver	1	1	1	1	1	1	
28	1F-009	Oil pot	1	1	1	1	1	1	
29	33TF-011	Oil pot	1	1	1	1	1	1	
30	DPX5 14#	Needle	4	/	4	/	/	4	
	DPX5 19#	Needle	/	4	/	4	4	/	
31	274WF1-001	Bobbin	5	5	/	/	/	/	
	310WF1-001	Bobbin	/	/	5	5	5	5	
32	M52	V-belt	1	1	/	/	/	/	

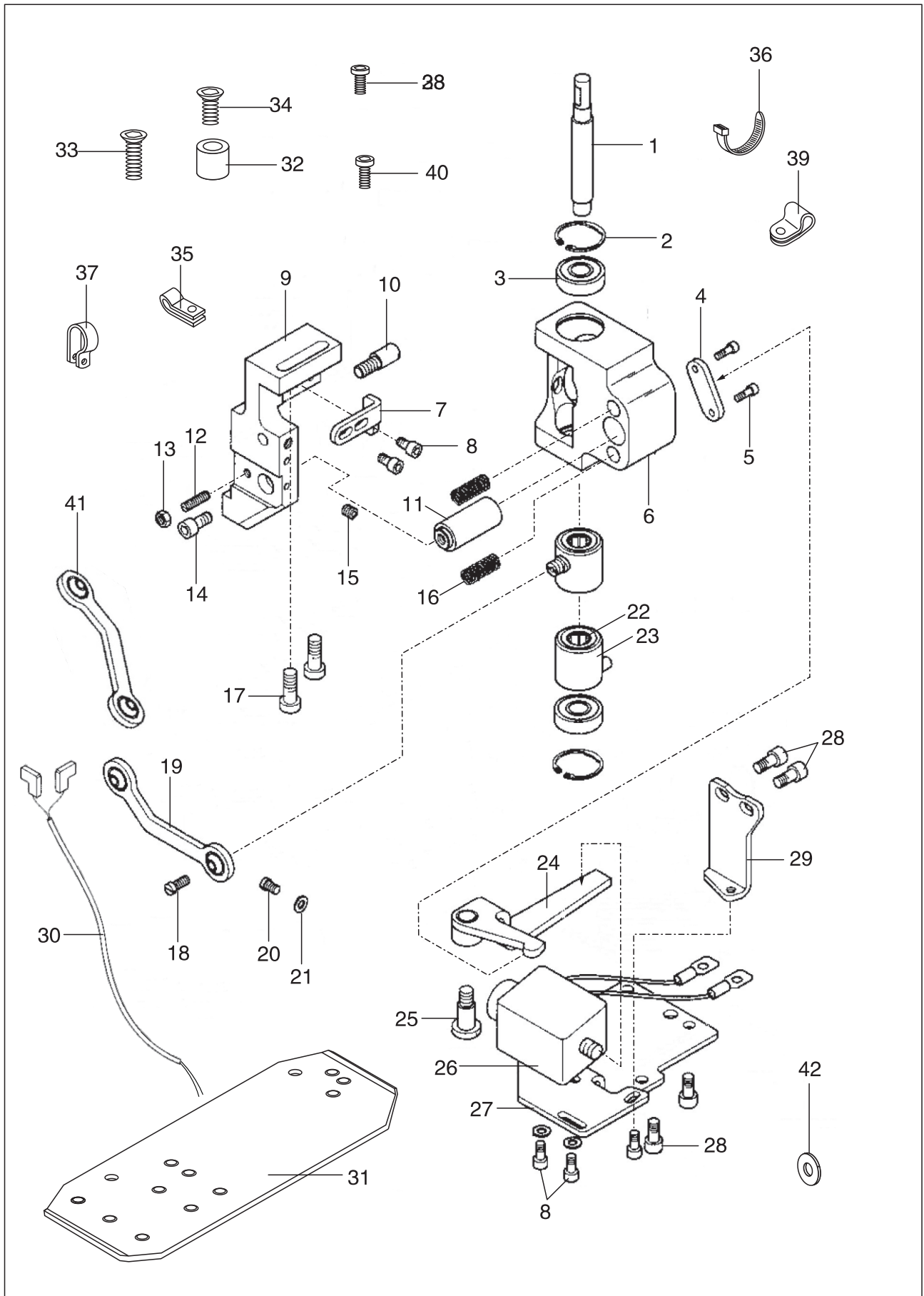
## 22. Motor installation



## 22. Motor installation

No	PARTS NO.	PARTS NAME	QTY						REMARK
			621	621CX	621-D1	621CX-D1	621-D2	621CX-D2	
1	274WF1-025	Pulley	/	/	1	1	1	1	
2	274WF6-030	Screw	/	/	1	1	1	1	
3	72WF2-014	Screw	/	/	2	2	2	2	
4	274WF6-031	Motor pulley	/	/	1	1	1	1	
5	274WF6-033	Screw	/	/	1	1	1	1	
6	274WF6-023	Installation bracket	/	/	/	/	/	/	
	310WF5-002	Installation bracket	/	/	1	1	1	1	
7	GB/T70.3 M8X20	Screw	/	/	1	1	1	1	
8	274WF6-025	Screw	/	/	1	1	1	1	
9	274WF6-024	Washer	/	/	1	1	1	1	
10	274WF6-034	Timing belt	/	/	1	1	1	1	
11	42WF2-018	Screw	/	/	/	/	/	/	
	13WF6-010	Screw	/	/	4	4	4	4	
12	274WF6-019	Plate	/	/	1	1	1	1	
13	13WF2-040	Screw	/	/	2	2	2	2	
14	274WF6-020	Belt cover	/	/	1	1	1	1	
15	274WF6-021	Screw	/	/	1	1	1	1	
16	274WF6-022	Screw	/	/	1	1	1	1	
17	13WF6-010	Screw	/	/	1	1	1	1	
18	274WF6-026	Spring plate	/	/	1	1	1	1	
19	274WF6-027	Screw	/	/	1	1	1	1	
20	274WF6-028	Washer	/	/	1	1	1	1	
21	274WF6-032	Spring	/	/	1	1	1	1	
22	274WF6-037	Safety switch	/	/	1	1	1	1	
23	GB/T67 M3X14	Screw	/	/	2	2	2	2	

## 23. Reverse and bottom bed components





## 23. Reverse and bottom bed components

No	PARTS NO.	PARTS NAME	QTY						REMARK
			621	621CX	621-D1	621CX-D1	621-D2	621CX-D2	
1	13WF3-040	Driving shaft	/	/	/	/	1	1	
2	13WF3-079	Retaining ring	/	/	/	/	2	2	
3	8X22X7	Bearing	/	/	/	/	2	2	
4	340WF2-005	Plate	/	/	/	/	1	1	
5	228WF4-027	Screw	/	/	/	/	2	2	
6	340WF2-006	Bracket	/	/	/	/	1	1	
7	340WF2-015	Stopper	/	/	/	/	1	1	
8	18WF3-021	Screw	/	/	/	/	5	5	
9	340WF2-014	Bracket	/	/	/	/	1	1	
10	340WF2-007	Pin	/	/	/	/	1	1	
11	340WF2-008	Pin	/	/	/	/	1	1	
12	340WF2-009	Screw	/	/	/	/	1	1	
13	4KT2-008	Nut	/	/	/	/	1	1	
14	80WF6-028	Screw	/	/	/	/	1	1	
15	42WF2-010	Screw	/	/	/	/	1	1	
16	340WF2-010	Spring	/	/	/	/	2	2	
17	6K2-024	Screw	/	/	/	/	2	2	
18	274WF3-026	Screw	/	/	/	/	1	1	
19	340WF2-012	Link	/	/	/	/	1	1	
20	340WF2-011	Screw	/	/	/	/	1	1	
21	2KT7-009	Washer	/	/	/	/	4	4	
22	BN06014	Clutch	/	/	/	/	2	2	
23	13WF3-041	Bush	/	/	/	/	2	2	
24	340WF2-003	Driving lever	/	/	/	/	1	1	
25	340WF2-004	Screw	/	/	/	/	1	1	
26	319WF3-015	Reverse feed solenoid	/	/	/	/	1	1	
27	340WF2-001	Bracket	/	/	/	/	1	1	
28	53WF5-008	Screw	/	/	/	/	4	4	
29	340WF2-002	Plate	/	/	/	/	1	1	
30	319WF2-012	Wire	/	/	/	/	1	1	
31	319WF2-006	Bottom bed	/	/	/	/	1	1	
32	340WF1-002	Support	/	/	/	/	1	1	
33	340WF1-003	Screw	/	/	/	/	1	1	
34	319WF2-010	Screw	/	/	/	/	2	2	
35	80WF2-020	Wire clamp	/	/	/	/	1	/	
36	2KT7-001a	Band	/	/	/	/	1	/	
37	80WF5-014	Clamp	/	/	/	/	2	/	
38	89WF2-016	Screw	/	/	/	/	1	/	
39	274WF5-004	Clamp	/	/	/	/	1	1	
40	13WF6-010	Screw	/	/	/	/	1	1	
41	319WF3-037	Link	/	/	/	/	1	1	
42	13WF3-075	Washer	/	/	/	/	2	2	