



TYPICAL

**TW5-8365/8366/8367/
8368/8365M/8367M**

**Single Needle Compound Feed
Post-bed Lockstitch Sewing Machine**

OPERATION INSTRUCTION / PARTS MANUAL

TYPICAL SEWING MACHINE WANPING MACHINERY CO., LTD.

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1. Brief introduction

This series of sewing machine adopts single straight needle, slide thread take-up lever, and timing feed of needle, feed dog and presser foot. The upper and lower shaft are supported by ball bearing, driven by synchronic belt. The special rotating hook is suitable for sewing solid products; special needle plate is suitable for sewing small arced products. This series are widely used in sewing handbag, boot and suitcase.

3. Installation and preparation

3.1 Installing the machine head

3.1.1 Location of the machine head

To ensure a smooth running, the machine should be located on rigid and flat floor. The insert of rubber mat between machine stand and floor is recommended for further reducing the running noise and vibration.

3.1.2 Installing the oil reservoir (Fig. 1)

Put the oil reservoir into the table cutout, and place the four cushions on the four corners of the cutout, and place oil felt into the oil reservoir.

3.1.3 Mounting the machine head (Fig. 2)

Make the connecting hook of the machine head engaged with the hinge socket C on the table, and make sure that the machine can rotate freely when turning the machine head.

3.1.4 Installing the presser foot lifter

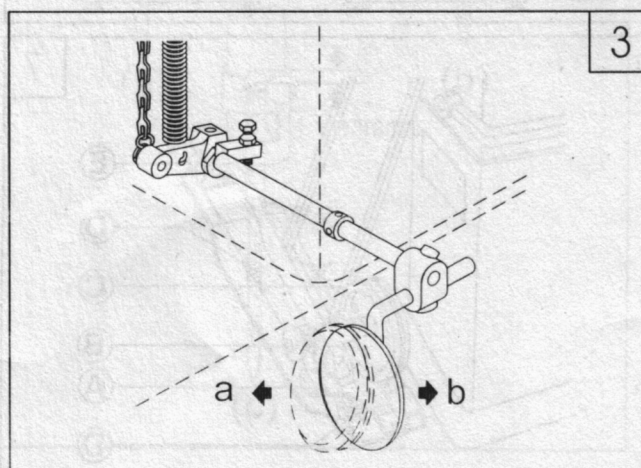
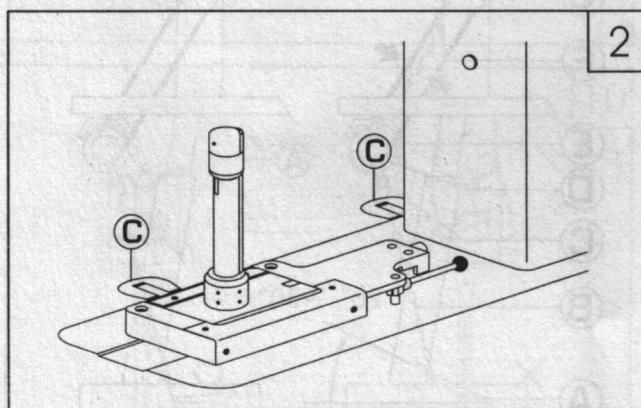
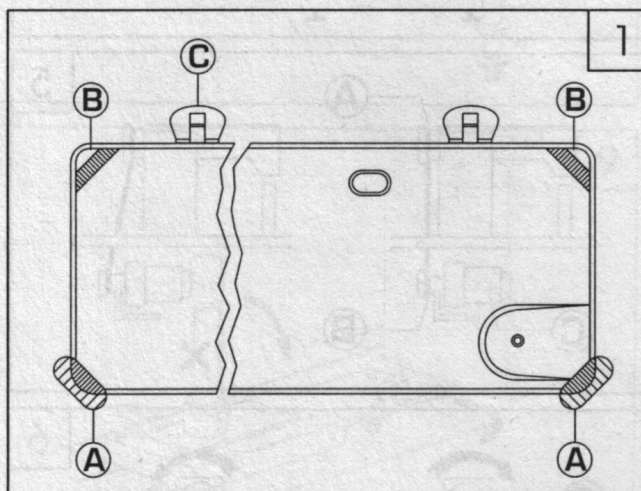
Optional methods:

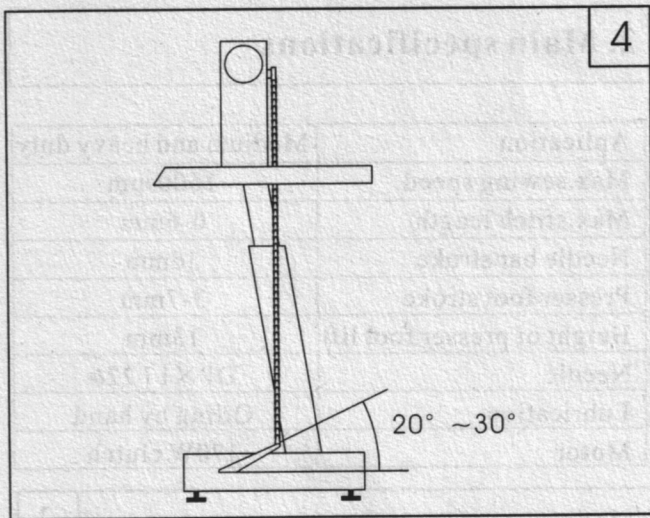
Knee control (Fig. 3)

Insert the knee control shaft into the connecting bracket hole, and set the knee control crank and knee control shaft onto the both end of the shaft to make the shaft rotate freely. Chain S should be hung on the knee control lifter lever, one end of the chain should be hung on the pin of the S. The other end should be connected to the other pin of S. Set the other end of S on the crank by screw; connect the spring to the connecting bracket and knee crank by spring pin (long) and spring pin (short), set the knee control position screw on the connecting bracket on the knee control position; tighten the knee control crank position screw and position screw lock nut on the knee control crank; then adjust the position. Install the knee control bell assembly onto the knee control shaft.

2. Main specifications

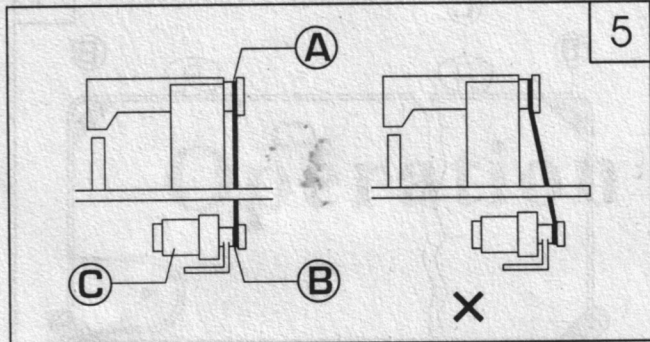
Application	Medium and heavy duty
Max. sewing speed	1600spm
Max. stitch length	0-6mm
Needle bar stroke	36mm
Presser foot stroke	3-7mm
Height of presser foot lift	13mm
Needle	DP×17 22#
Lubrication	Oiling by hand
Motor	370W clutch





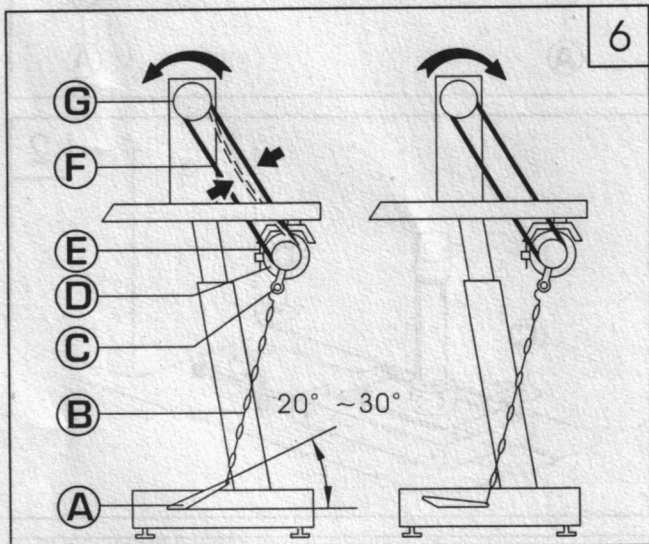
Pedal (Fig.4)

Hang the knee control chain S on the knee control lifter lever, and pass the other end through the table cutout and connect it to the pedal assembly of the spool stand. The tilt angle between the pedal and the earth should be $20^{\circ} \sim 30^{\circ}$.



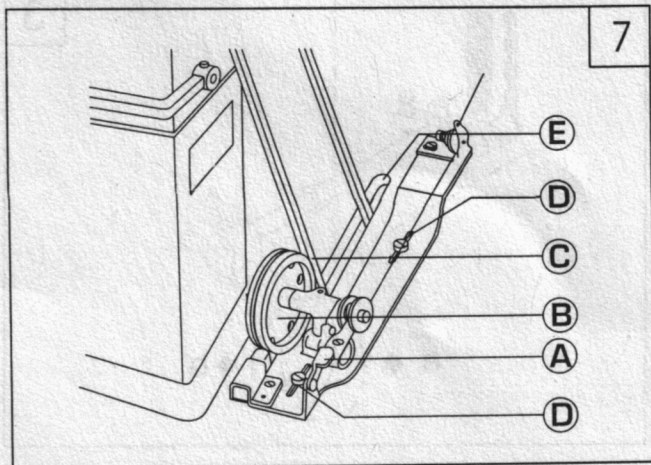
3.1.5 Installing the motor (Fig.5)

Move the motor C leftward and rightward to make the balance wheel groove A align with the motor belt wheel groove B.



3.1.6 Connecting the clutch lever to the pedal (Fig.6)

- a. The optimum tilt angle of pedal with floor is $20^{\circ} \sim 30^{\circ}$
- b. Adjust the clutch of the motor so that clutch lever B and draw bar C run in line.
- c. The machine should rotate counter clockwise when view from the opposite side of the balance wheel. The motor should rotate in the same direction. The rotation can be reversed (turn over 180deg) by reversing the plug of motor.
- d. Adjust the tension of the V-belt F by moving the motor vertically. The proper tension of the V-belt is a slack of 10-12mm when the belt is depressed at the belt span by finger.



3.1.7 Installing the bobbin winder (Fig.7)

Align the bobbin winder B with the outside of the belt C and there should be a proper distance between them. Make sure that the pulley B could be contacted with the belt after the stop latch thumb lever A is depressed, the by the belt drives the pulley while the machine running. Note that the bobbin winder should be in parallel with belt slit E of table, then tighten it by wood screw D.

3.1.8 Installing the thread spool stand (Fig.8)
 Locate the thread spool stand at the right front of the table, then tighten the screw C.

3.2 Preparation

3.2.1 Cleaning the machine

Before delivery, the machine parts are coated with rust preventive grease, which may be hardened and contaminated by dust during storage and shipment. The grease must be removed by clean cloth with gasoline.

3.2.2 Examination

Though every machine is confirmed by strict inspection and test before delivery, the machine parts may be loosed or deformed after long distance transportation with jolt. A thorough examination must be performed after cleaning the machine. Turn the balance wheel to check if there is running obstruction, parts collision, uneven resistance or abnormal noise. If these exist, adjustment must be made accordingly before run the machine.

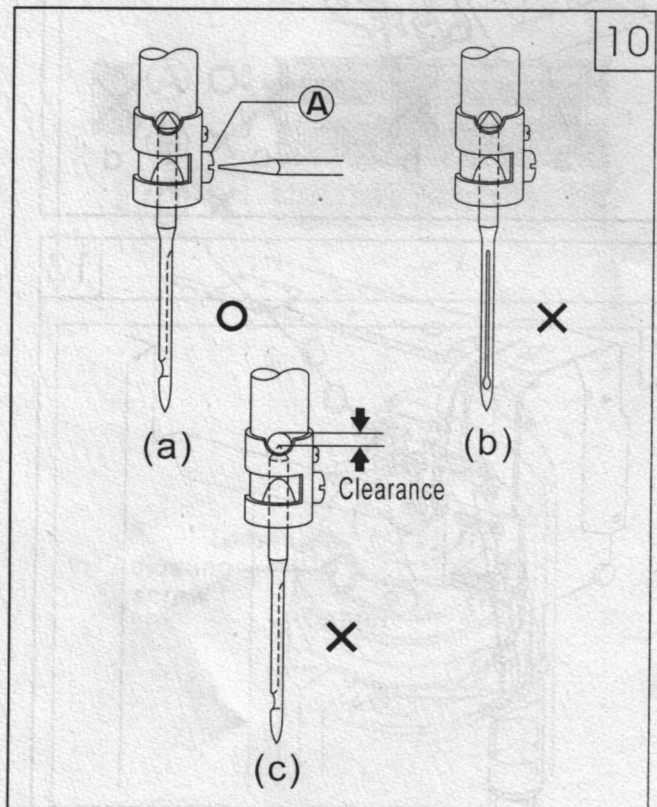
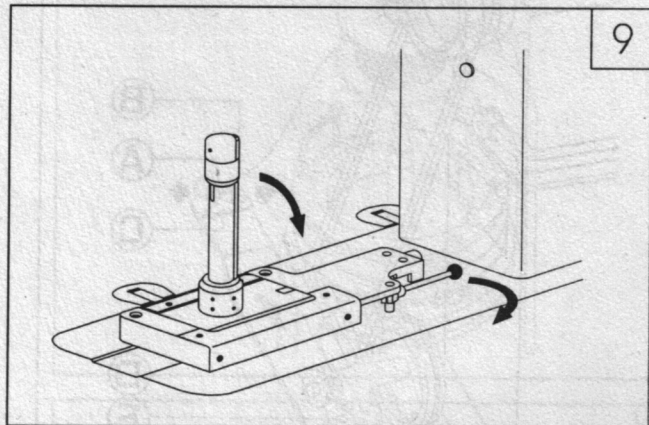
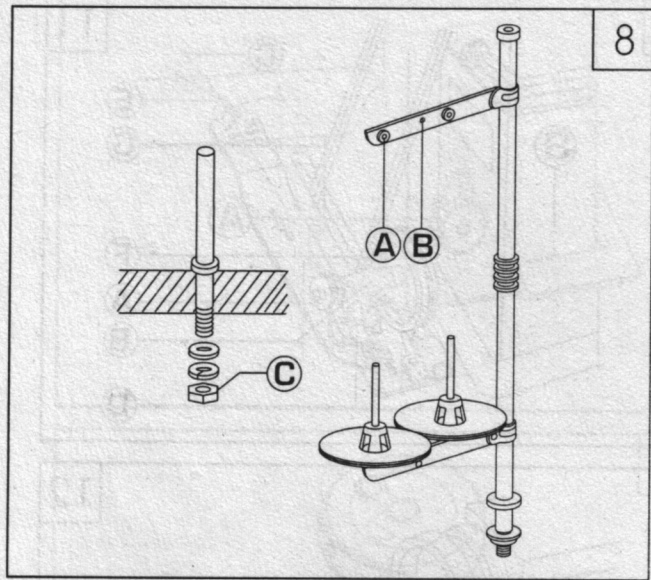
3.2.3 Precaution

a. oiling

Oil amount should be filled according to the marks in the oil reservoir.

When a new machine starts running, for extending its life, please run it at a medium and low speed (800spm) for about a month, then raise the speed gradually.

Please turn off the power when the machine is not in use or the operator leaves away.

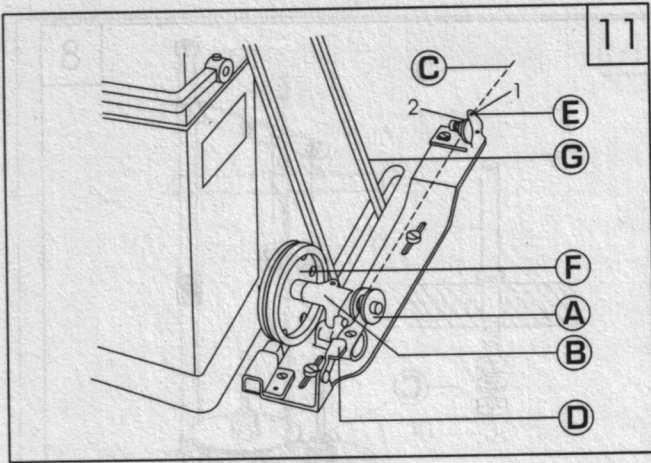


4. Operation

4.1 Tilting mechanism for TW5-8365M/8367M (Fig.9)
 As the figure shows, when the tilting mechanism is tilted to the operator, it will be more easy for the output and input of the material.

4.2 Coordination between needle thread and material
 Please apply needle DP×17,. The corseness of needle should be in accordance with the nature of the material.

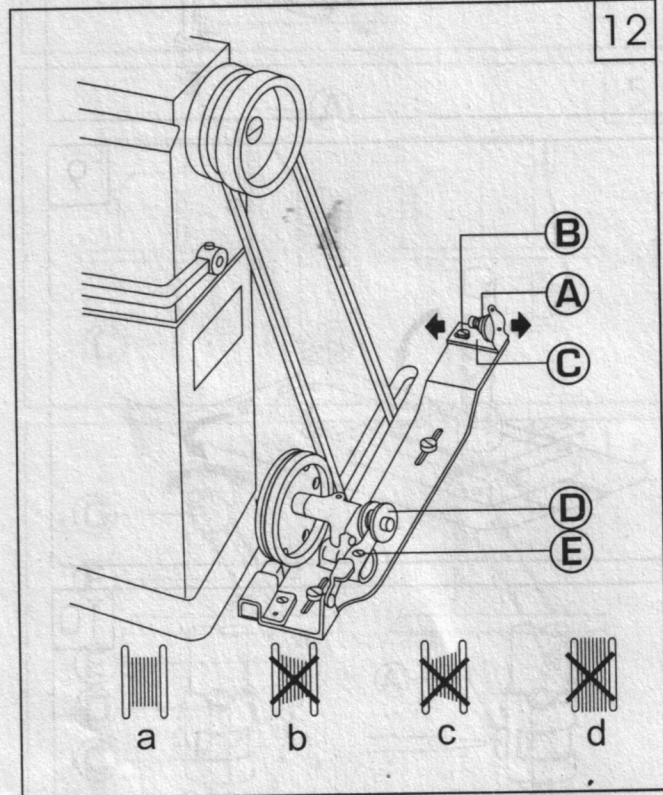
4.3 Installing the needle (Fig.10)
 Turn the balance wheel to lift the needle bar to its highest position, loosen the screw A, then fully insert the needle shank upto the bottom of the needle socket. Keep the groove of the short needle toward the left side of the operator, then tighten the screw A.



4.4 Winding the bobbin thread

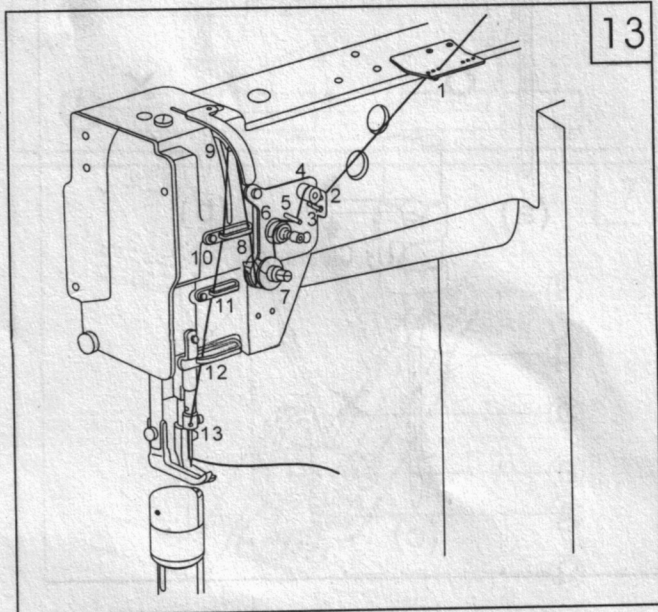
4.4.1 Winding method (Fig.11)

Insert the bobbin A to the bobbin winder spindle B. pass the thread C through the hole 1 on the tension bracket E. Pass it between the tension discs 2, and then wind the end of the thread a few turns on the bobbin. Push the stop latch thumb lever D down to lock the bobbin, the winder pulley thereby will press on the belt G. Start the machine to wind thread. Note that when thread is wound without sewing operation, be sure to keep the presser foot lifted. When the thread is fully wound, the bobbin winder stop latch automatically release the bobbin winder, thus stopping the winding motion.



4.4.2 Winding adjustment (Fig.12)

The wound bobbin thread should be neat and tight, if not, adjust the thread tension by turning the tension stud thumb nut A of bobbin winder tension bracket. When the wound thread layer does not present a cylindrical shape as in Fig. 12. a, loosen the tension bracket screw B and move the the tension beacket C leftward or rightward. If thread is would as shown in Fig. 12. b, move the tension bracket rightward, while f the thread is wound as shouwn in Fig. 123. c, move the tension bracket leftward. After adequately positioning the tension bracket, tighten the screw B. Note: nylon or polyester thread should be wound with light tension, otherwise, the bobbin might be broken or deformed. Do not overfill the bobbin, the optimum capacity of thread will fill about 80% of the bobbin outside diameter, which can be adjusted by stop latch screw E.



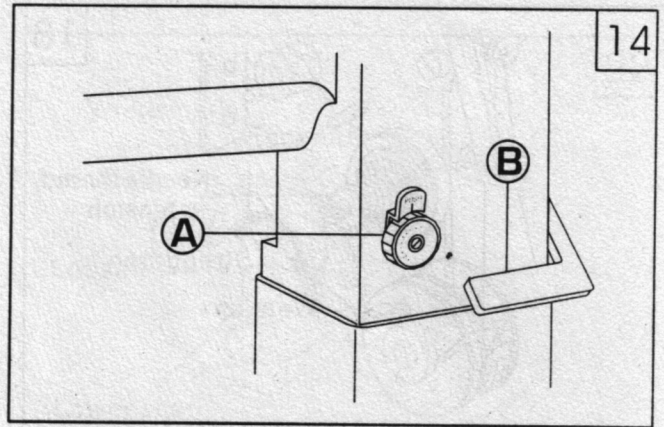
4.4.3 Threading (Fig.13)

- Pass the sewing thread through the thread guide hole.
- Lift the thread take-up lever to its highest position, and draw the thread in the numerical order.

4.4.4 The stitch length and forward and reverse sewing control (Fig.14)

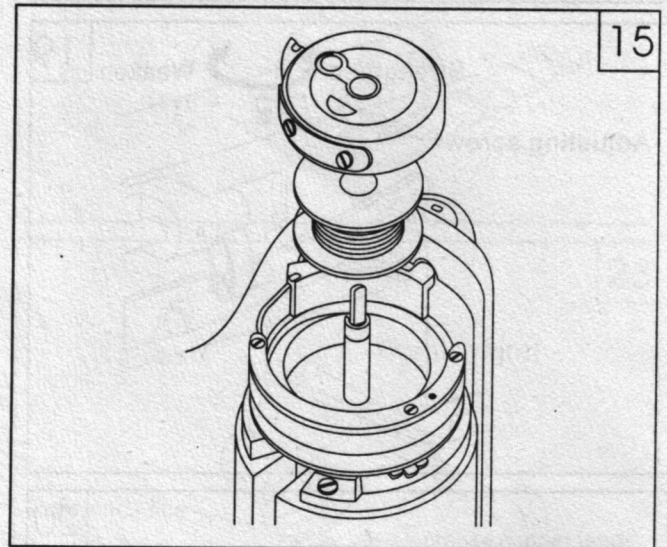
The stitch length can be regulated by stitch length dial A. Turn it counter clockwise to expand its length and turn it clockwise to shorten its length. The figure on dial A indicates the amount of the stitch length in mm.

When reverse feed is required, press down the feed lever B to perform reverse sewing. Release the lever, the feed lever B can reset automatically and the forward sewing is resumed.



4.4.5 Installing the bobbin (Fig.15)

Note: when bobbin is placed into the bobbin case, the thread should be wound properly in the correct direction shown in the figure.



5. Machine adjustment

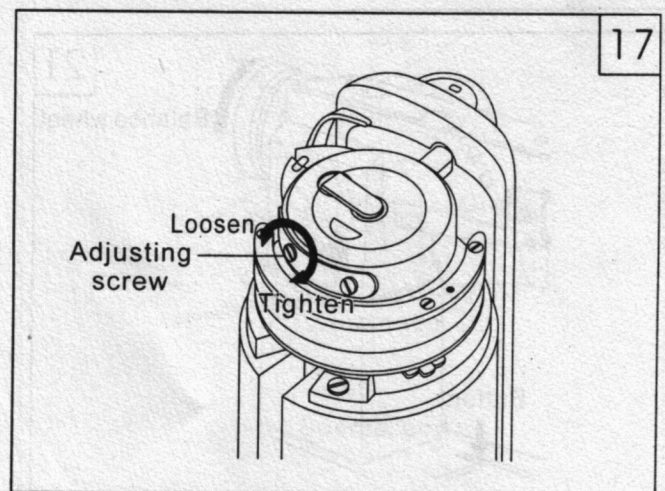
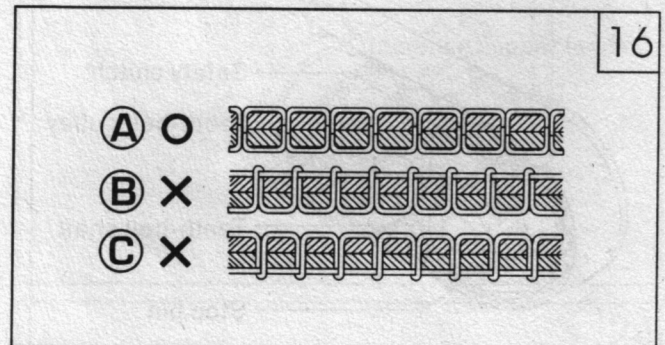
5.1 Thread tension adjustment (Fig.16)

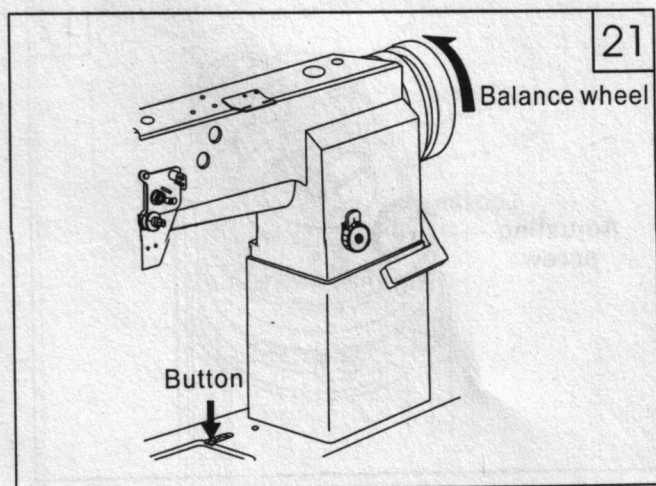
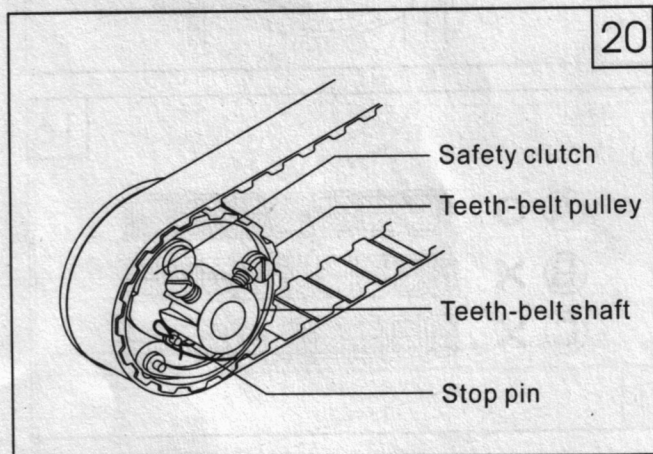
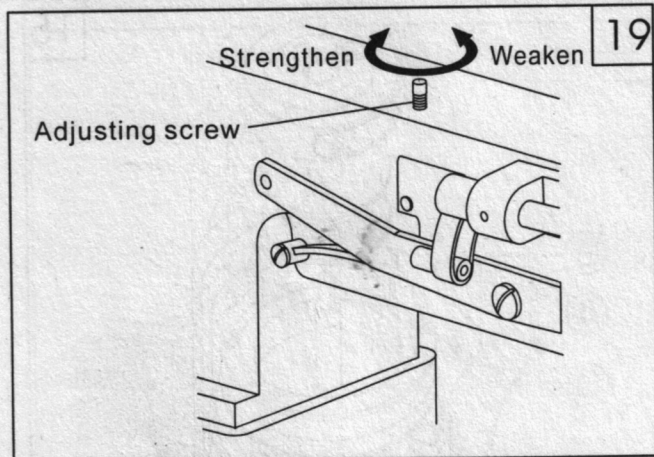
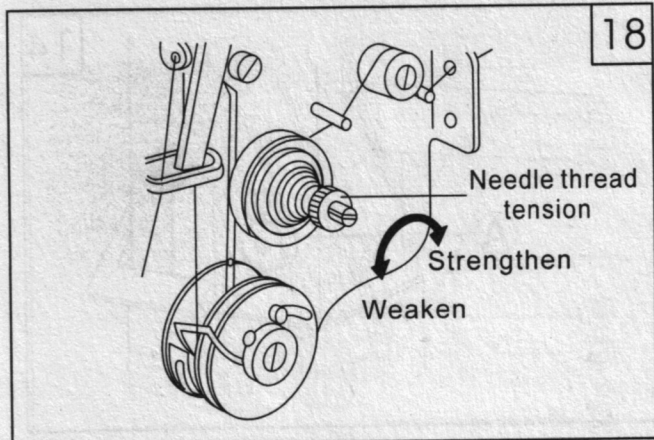
The normal stitch form is shown in the Fig.16a. If stitch is abnormal, the puckering and thread breakage will occur, and the needle thread tension and bobbin thread tension should be adjusted so that the normal stitch can be obtained.

If the stitch seam is shown as Fig.16b, it indicates that the needle thread or bobbin thread tension is too loose, then turn the thread tension screw counter clockwise to release the needle thread tension, or turn the adjusting screw with a screwdriver to increase the bobbin thread tension. (Fig.17,18)

b.If the needle thread is too loose and the bobbin thread is too tight as shown in Fig.16c, turn the thread tension screw clockwise to increase the needle thread tension, or release the adjusting screw with a screwdriver to reduce the bobbin thread tension. (Fig.17,18)

For special sewing with special thread, the required tension can be obtained by adjusting the power and stroke of the thread take-up spring.





5.2 Adjusting the bobbin thread tension (Fig.19)
 The pressure of the presser foot should be adjusted according to the thickness of the material to be sewn. If stitch on the heavy duty material, the pressure should be increased by turning the pressure adjusting screw on the back of the arm clockwise; on the contrary, to decrease the pressure.

5.3 Safety clutch device

Once the needle thread is twisted into the rotating hook as a result of abnormal operation, the safety clutch can prevent the rotating hook and belt from damage.

5.3.1 The function of the safety clutch device (Fig.20)

a. When the safety clutch device is functioning, the teeth-belt will remove the load, the rotating hook shaft will stop rotating, only the upper shaft rotates, and the machine will stop work.

b. Clean off the needle thread that is drawn into the rotating hook.

c. Turn the teeth-belt shaft with hand, and check if the rotating hook can turn smoothly, then reset the safety clutch device.

5.3.2 Resetting the safety clutch device (Fig.21)

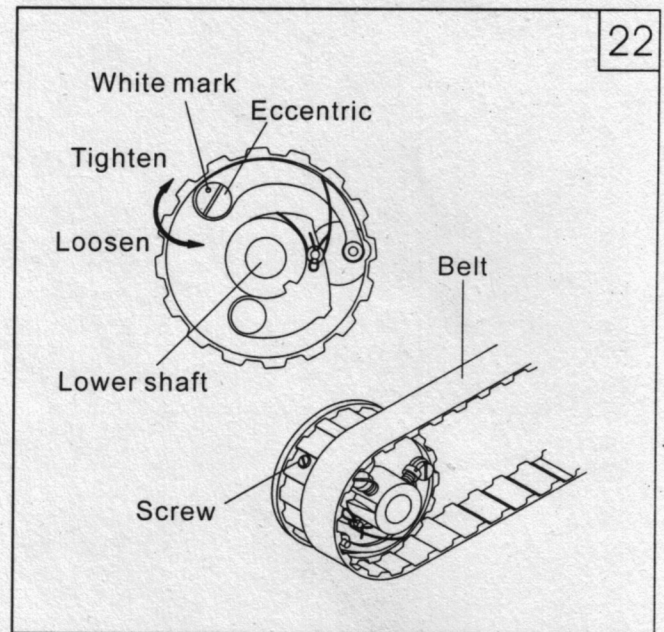
a. While press down the button in the bed surface with left hand, turn the balance wheel slowly with right hand in the direction shown in the Fig.21.

b. When the stop plate stops the balance wheel, more strength is needed to turn the balance wheel to reset the safety clutch device.

c. Release the button.

5.3.3 Regulating the strength on the safety clutch device (Fig.22)

- When the white mark of the eccentric pin aims at the center of the lower shaft, it indicates that the strength on the safety clutch device is the minimum. When the white points outward, the strength is properly increased.
- For regulating the strength, move the teeth-belt and loosen the set screw of the eccentric pin, then turn the eccentric pin.
- After regulation, please tighten the set screw.



5.4 Adjusting the upper feed mechanism (Fig.23)

If the upper and lower feed are not in timing during sewing, the long hole of the horizontal feed crank should be adjusted to get the length of upper feed.

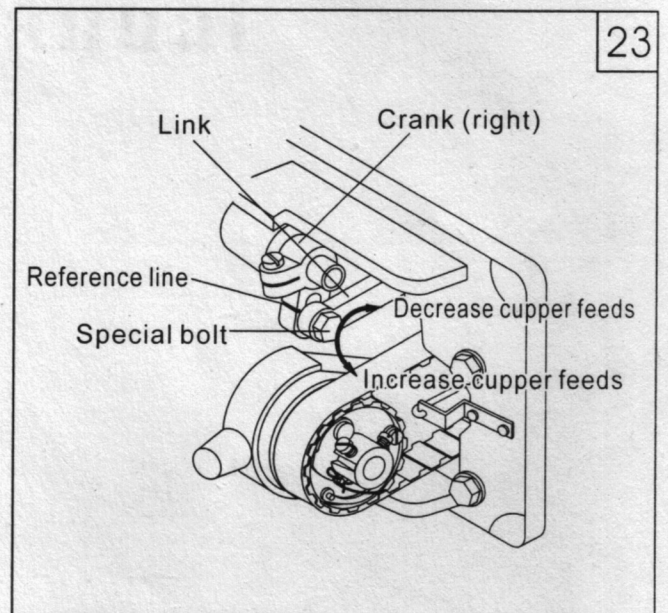
Adjust as follows:

Loosen the special screw.

Move the special screw upward to reduce the upper feed amount.

Move the special screw downward to increase the feed amount. Theoretically, when it is on the reference line of the horizontal feed crank, the upper feed amount equals to the lower feed amount.

After adjustment, tighten the special screw.



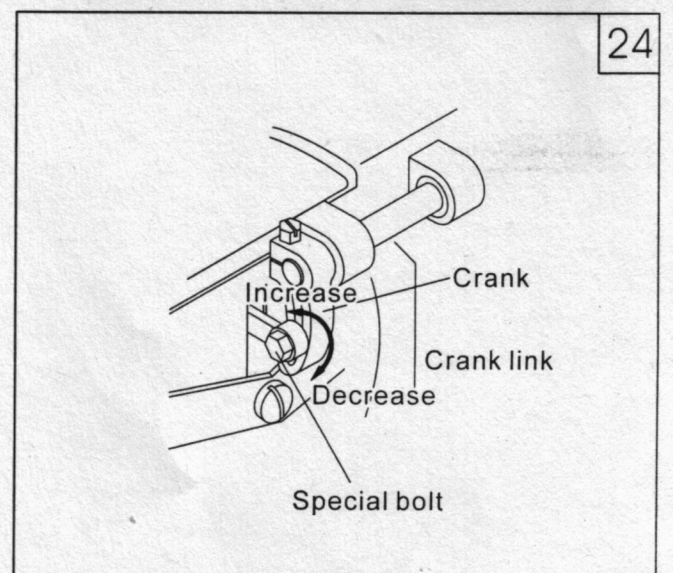
5.5 Adjusting the presser foot lift volume (Fig.24)

When stitch on the very elastic material or the thickness of the sewing material is changed, the adjustment should be done as follows:

Loosen the special screw.

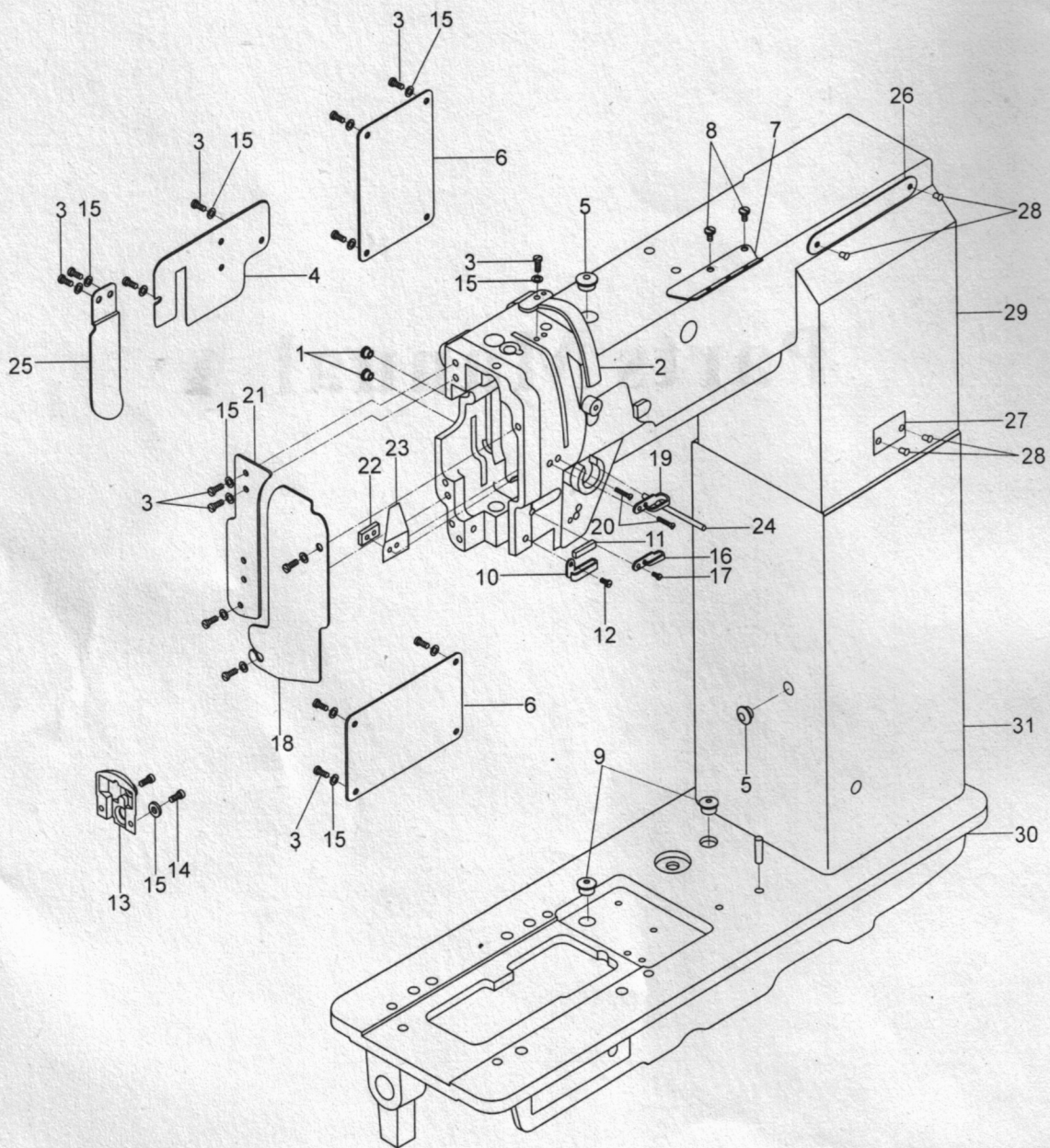
When the centerline distance between the special screw and the presser foot lift rear crank becomes shorter, the presser foot lift volume will become longer; on the contrary, the distance becomes longer, the lift volume will become shorter.

After adjustment, tighten the special screw. The common presser foot lift volume can be adjusted in the range of 3-7mm.



Parts Manual

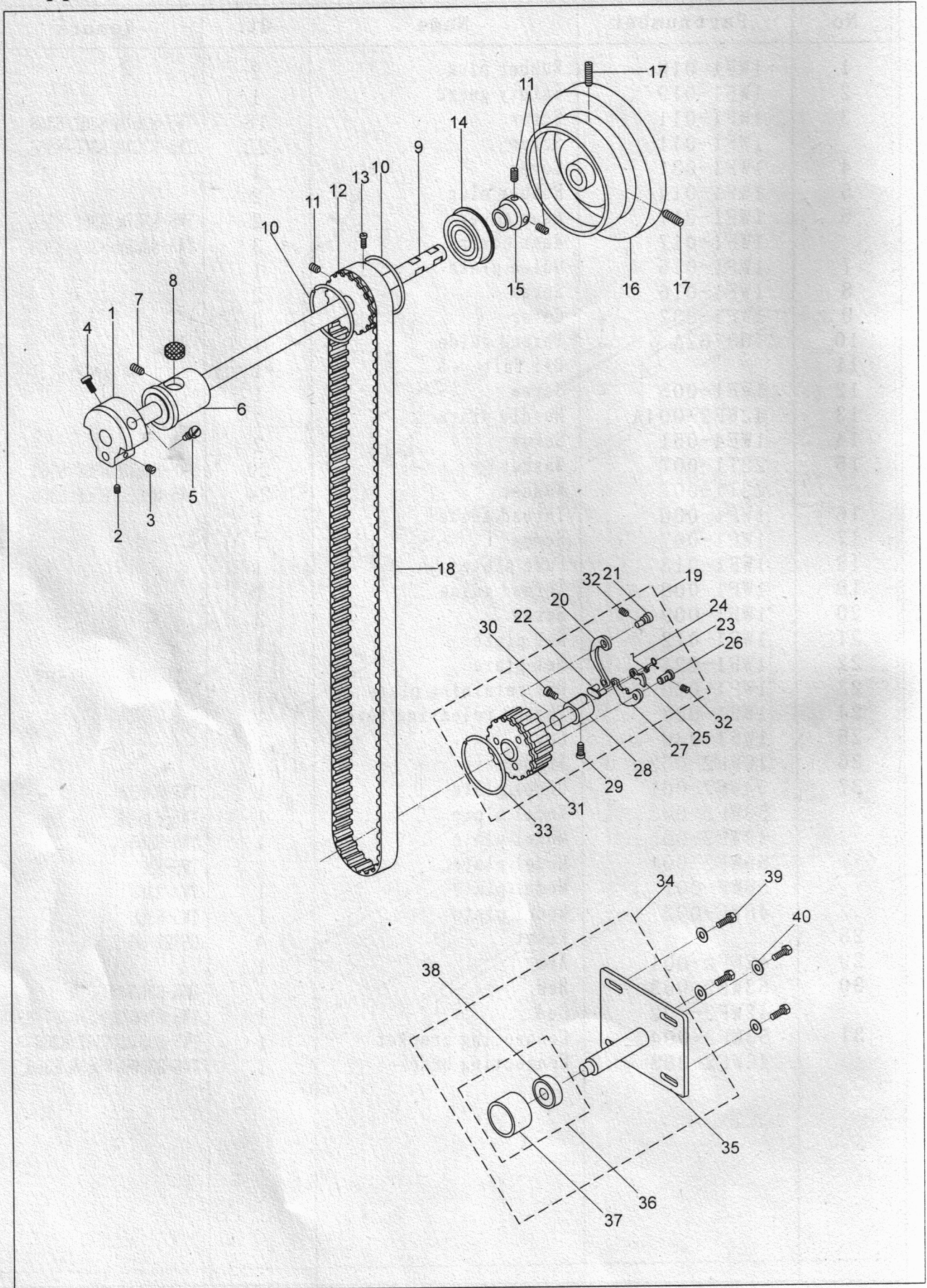
1. Arm parts



1. Arm parts

No	Part number	Name	Qt.	Remark
1	1WF1-018	Rubber plug	2	
2	1WF1-019	Safety guard	1	
3	1WF1-011	Screw	18	TW5-8367M/8367/8368
	1WF1-011	Screw	22	TW5-8367M/8365/8366
4	1WF1-031	Cover	1	
5	1WF1-014	Rubber plug	2	
6	1WF1-017	Rear cover	2	TW5-8367M/8367/8368
	1WF1-017	Rear cover	3	TW5-8365M/8365/8366
7	1WF1-015	Guide plate	1	
8	1WF1-016	Screw	2	
9	1WF1-032	Cover	2	
10	103762A	Thread guide	1	
11		Oil felt	1	
12	1WF1-005	Screw	1	
13	42WF2-004A	Needle plate	1	
14	1WF4-051	Screw	2	
15	22T1-007	Washer	20	TW5-8367M/8367/8368
	22T1-007	Washer	24	TW5-8365M/8365/8366
16	1WF1-006	Thread guide	1	
17	1WF1-007	Screw	1	
18	1WF1-013	Face plate	1	
19	1WF1-008	Thread guide	1	
20	1WF1-009	Screw	2	
21	1WF1-012	Set plate	1	
22	1WF1-021	Set plate	1	
23	1WF1-020	Oil retaining plate	1	
24	1WF1-023	Thread releasing lever	1	
25	1WF1-030	Cover	1	
26	16WF2-053	Trade mark	1	
27	54WF2-001	Model plate	1	TW5-8365M
	53WF2-002	Model plate	1	TW5-8367M
	42WF2-005	Model plate	1	TW5-8365
	55WF2-001	Model plate	1	TW5-8367
	56WF-001	Model plate	1	TW5-8368
	48WF-002	Model plate	1	TW5-8366
28		Rivet	4	GB827-86-2.5×5
29	42WF2-001	Arm	1	
30	53WF2-003	Bed	1	TW5-8365M/8367M
	42WF2-002	Bed	1	TW5-8365/8366/8367/8368
31	53WF2-004	Connecting bracket	1	TW5-8367M/8367/8368
	42WF2-003	Connecting bracket	1	TW5-83665/8365M/8366

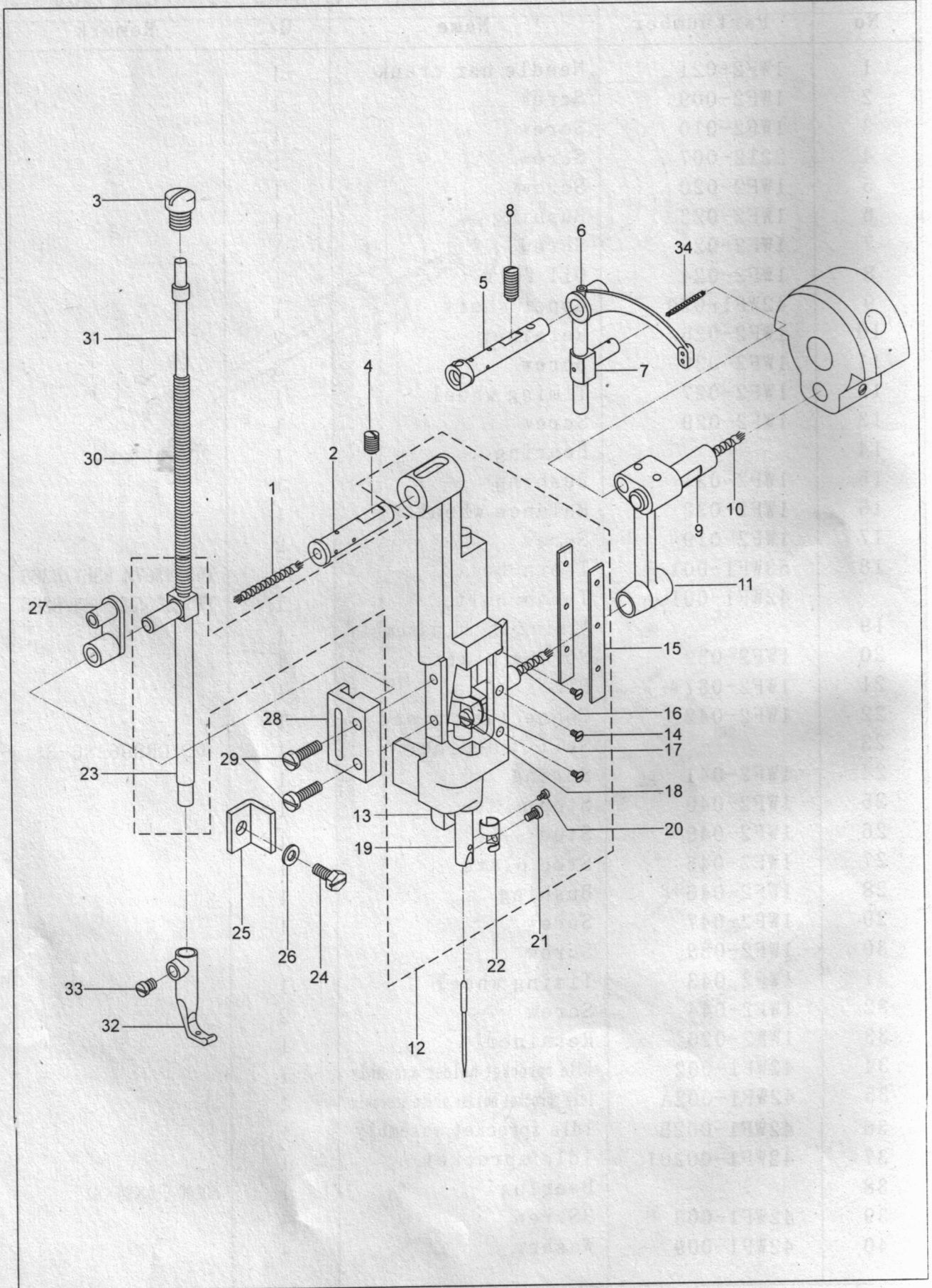
2.Upper and lower shaft driven parts



2.Upper and lower shaft driven parts

No	Part number	Name	Qt.	Remark
1	1WF2-021	Needle bar crank	1	
2	1WF2-009	Screw	1	
3	1WF2-010	Screw	1	
4	22T2-007	Screw	1	
5	1WF2-020	Screw	1	
6	1WF2-022	Bushing	1	
7	1WF2-023	Screw	1	
8	1WF2-024	Oil felt	1	
9	42WF1-020	Upper shaft	1	
10	1WF2-026	Retainer	2	
11	1WF2-030	Screw	3	
12	1WF2-027	Timing wheel	1	
13	1WF2-029	Screw	1	
14		Bearing	1	20×47×14
15	1WF2-031	Bushing	1	
16	1WF2-032	Balance wheel	1	
17	1WF2-019	Screw	2	
18	53WF1-001	Teeth-belt	1	TW5-8367M/8367/8368
	42WF1-001	Teeth-belt	1	TW5-8365M/8365/8366
19		Timing wheel assembly	1	
20	1WF2-039	Spring plate	1	
21	1WF2-037	Pin	1	
22	1WF2-042	Connecting piece	1	
23		Split retainer	1	Φ3 GB896-86-3
24	1WF2-041	Spring	1	
25	1WF2-040	Stop plate	1	
26	1WF2-048	Stud	1	
27	1WF2-045	Stop plate	1	
28	1WF2-046	Bushing	1	
29	1WF2-047	Screw	1	
30	1WF2-038	Screw	1	
31	1WF2-043	Timing wheel	1	
32	1WF2-044	Screw	2	
33	1WF2-026	Retainer	1	
34	42WF1-002	Idle sprocket holder assembly	1	
35	42WF1-002A	Idle sprocket holder plate assembly	1	
36	42WF1-002B	Idle sprocket assembly	1	
37	42WF1-002B1	Idle sprocket	1	
38		Bearing	1	80100 (10×26×8)
39	42WF1-008	3Screw	4	
40	42WF1-009	Washer	4	

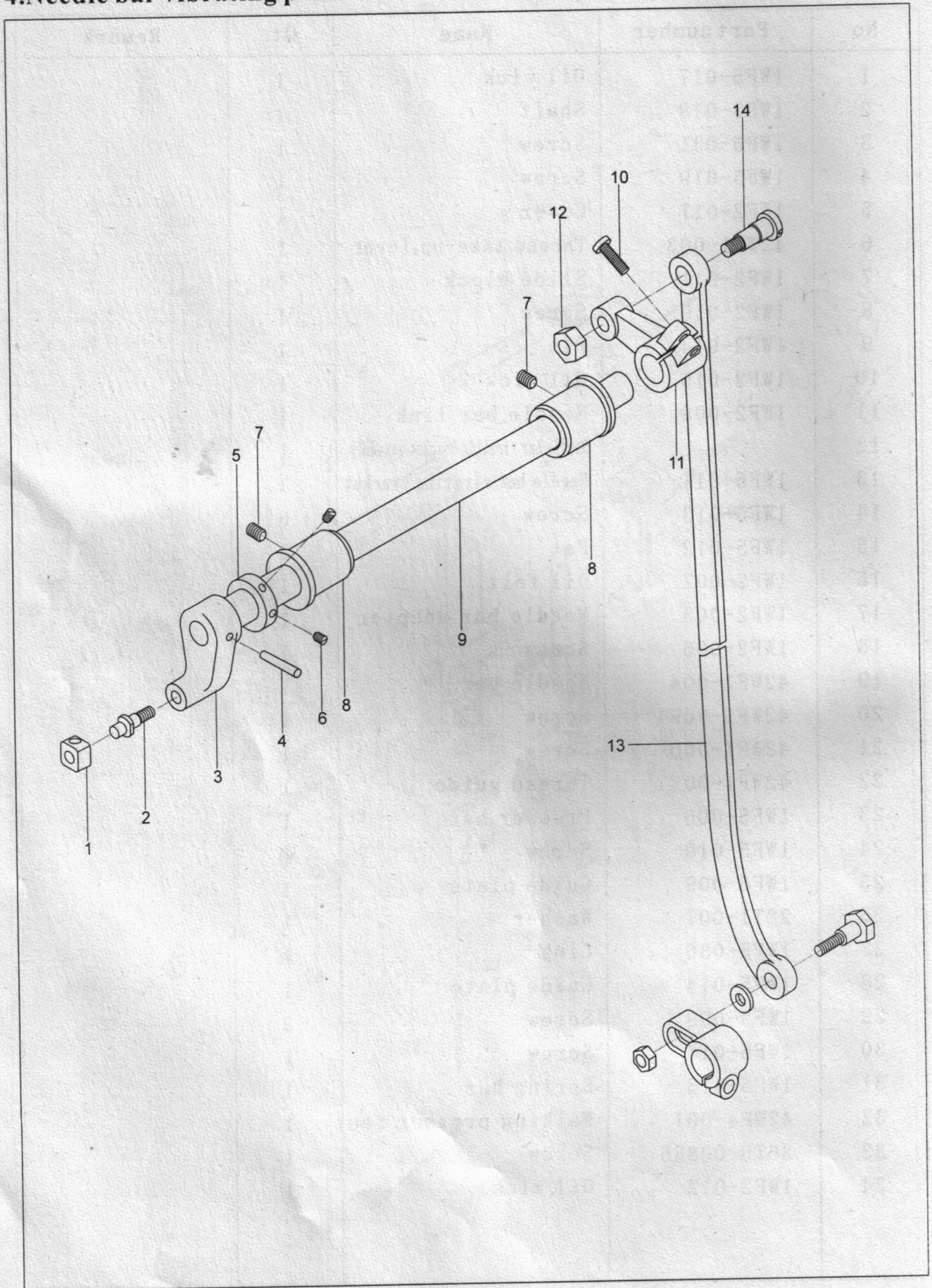
3. Needle bar vibrating feed parts



3. Needle bar vibrating feed parts

No	Part number	Name	Qt.	Remark
1	1WF5-017	Oil wick	1	
2	1WF5-018	Shaft	1	
3	1WF5-031	Screw	1	
4	1WF5-019	Screw	1	
5	1WF2-017	Cover	1	
6	42WF1-003	Thread take-up lever	1	
7	1WF2-011	Slide block	1	
8	1WF2-019	Screw	1	
9	1WF2-014	Pin	1	
10	1WF2-015	Oil wick	1	
11	1WF2-008	Needle bar link	1	
12		Needle bar vibrating bracket assembly	1	
13	1WF5-011	Needle bar vibrating bracket	1	
14	1WF5-013	Screw	6	
15	1WF5-012	Pat	2	
16	1WF2-007	Oil felt	1	
17	1WF2-005	Needle bar adapter	1	
18	1WF2-006	Screw	1	
19	42WF1-004	Needle bar	1	
20	42WF1-005	Screw	1	
21	42WF1-006	Screw	1	
22	42WF1-007	Thread guide	1	
23	1WF5-006	Presser bar	1	
24	1WF5-010	Screw	1	
25	1WF5-009	Guide plate	1	
26	22T1-007	Washer	1	
27	1WF5-036	Link	1	
28	1WF5-014	Guide plate	1	
29	1WF3-009	Screw	2	
30	1WF5-016	Screw	1	
31	1WF5-015	Spring bar	1	
32	42WF4-001	Walking presser foot	1	
33	36T5-008E5	Screw	1	
34	1WF2-012	Oil wick	1	

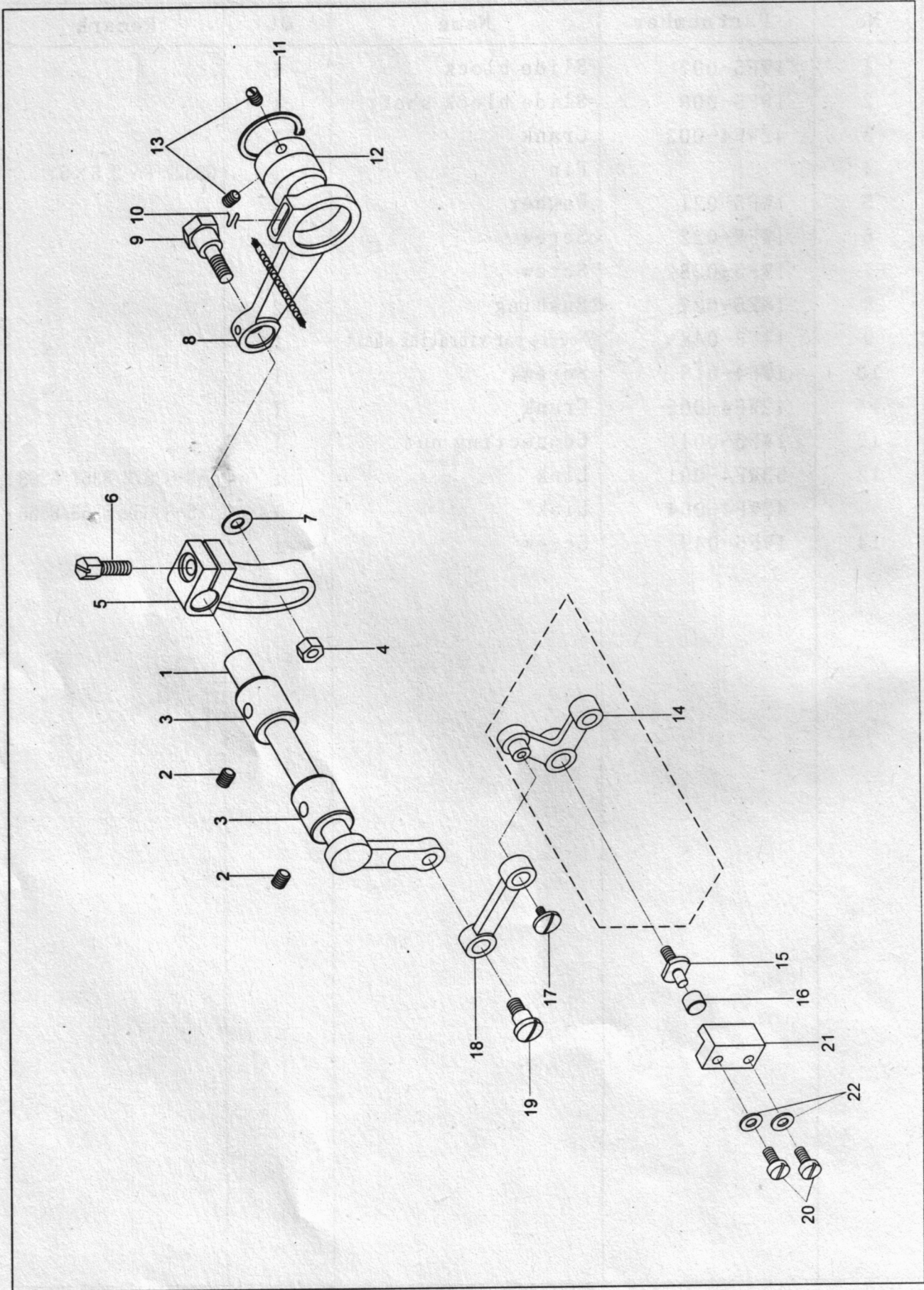
4. Needle bar vibrating parts



4. Needle bar vibrating parts

No	Part number	Name	Qt.	Remark
1	1WF5-007	Slide block	1	
2	1WF5-008	Slide block shaft	1	
3	42WF4-003	Crank	1	
4		Pin	1	GB827-86-2.5×5
5	1WF5-021	Washer	1	
6	1WF5-022	Screw	2	
7	1WF5-028	Screw	2	
8	1WF5-027	Bushing	2	
9	1WF5-048	Needle bar vibrating shaft	1	
10	1WF4-018	Screw	1	
11	42WF4-005	Crank	1	
12	1WF5-004	Connecting nut	1	
13	53WF4-001	Link	1	TW5-8367M/8367/8368
	42WF4-004	Link	1	TW5-8365M/8365/8366
14	1WF5-049	Screw	1	

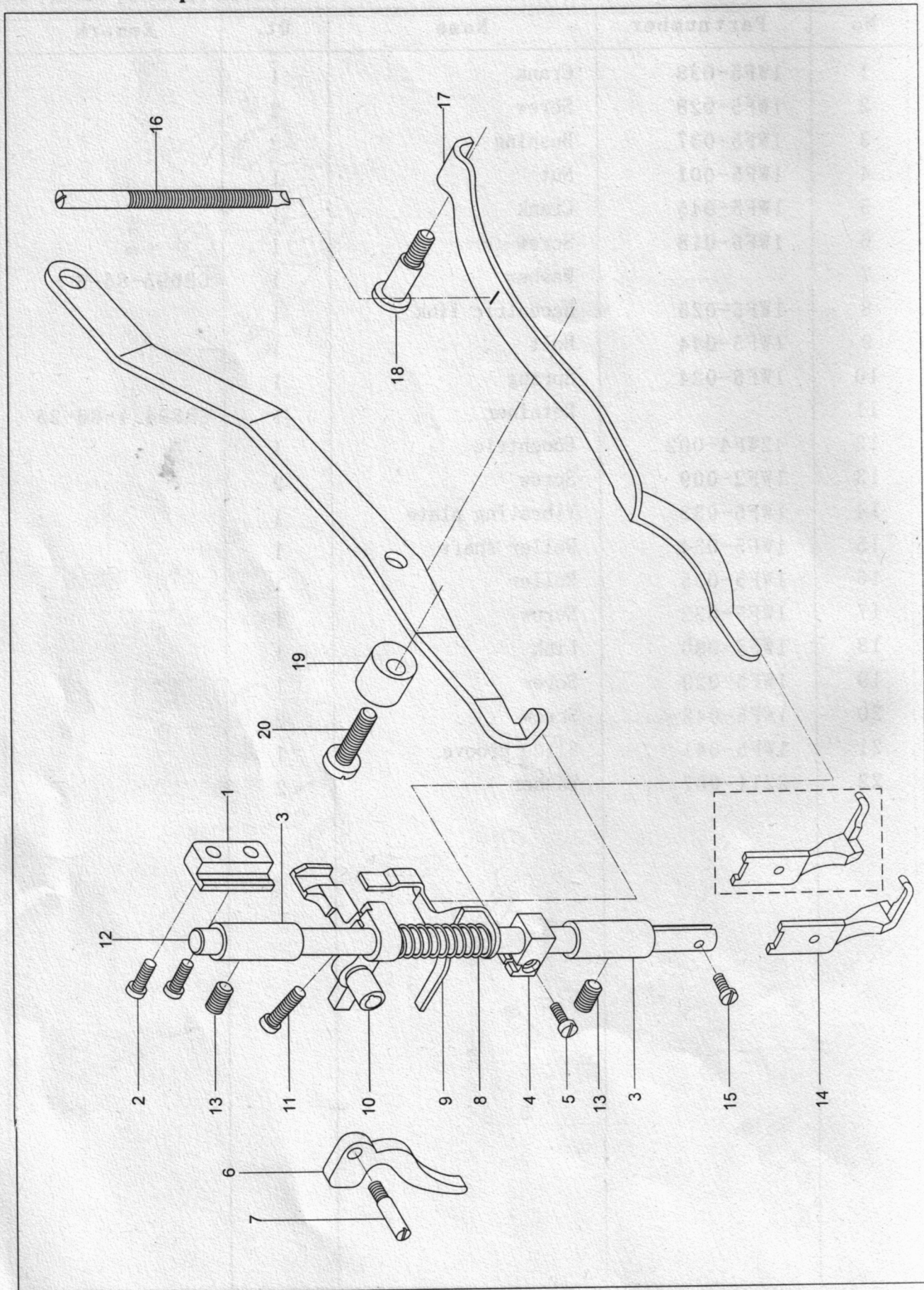
5. Presser foot lift parts



5.Presser foot lift parts

No	Part number	Name	Qt.	Remark
1	1WF5-038	Crank	1	
2	1WF5-028	Screw	2	
3	1WF5-037	Bushing	2	
4	1WF5-001	Nut	1	
5	1WF5-045	Crank	1	
6	1WF5-018	Screw	1	
7		Washer	1	GB695-85-6
8	1WF5-025	Eccentric link	1	
9	1WF5-044	Bolt	1	
10	1WF5-024	Spring	1	
11		Retainer	1	GB894.1-86-25
12	42WF4-002	Eccentric	1	
13	1WF2-009	Screw	2	
14	1WF5-033	Vibrating plate	1	
15	1WF5-034	Roller shaft	1	
16	1WF5-035	Roller	1	
17	1WF5-032	Screw	1	
18	1WF5-030	Link	1	
19	1WF5-029	Screw	1	
20	1WF5-042	Screw	2	
21	1WF5-041	Slide groove	1	
22	22T1-007	Washer	2	

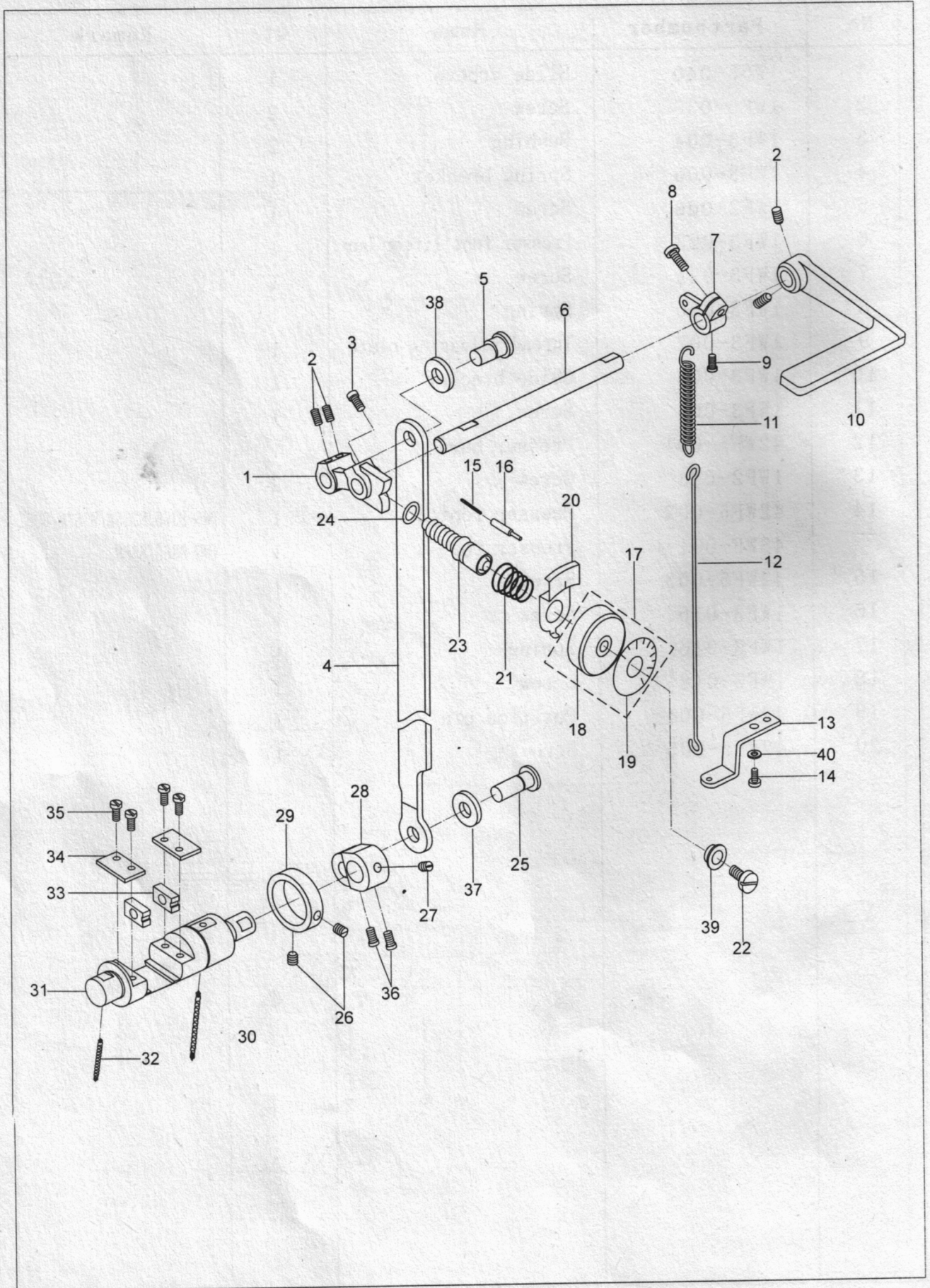
6.Presser foot parts



6.Presser foot parts

No	Part number	Name	Qt.	Remark
1	1WF5-040	Slide groove	1	
2	1WF5-039	Screw	2	
3	1WF3-004	Bushing	2	
4	1WF3-005	Spring bracket	1	
5	1WF2-006	Screw	1	
6	1WF3-023	Presser foot lifter bar	1	
7	1WF3-022	Screw	1	
8	1WF3-006	Spring	1	
9	1WF3-007	Thread releasing plate	1	
10	1WF3-008	Guide bracket	1	
11	1WF3-009	Screw	1	
12	42WF5-001	Presser bar	1	
13	1WF2-023	Screw	2	
14	42WF5-002	Presser foot	1	TW5-8365/8365M/8367M/8367
	48WF-001	Presser foot	1	TW5-8366/8368
15	42WF5-003	Screw	1	
16	1WF3-015	Screw	1	
17	1WF3-016	Spring	1	
18	1WF3-018	Screw	1	
19	42WF5-004	Position pin	1	
20	42WF5-005	Screw	1	

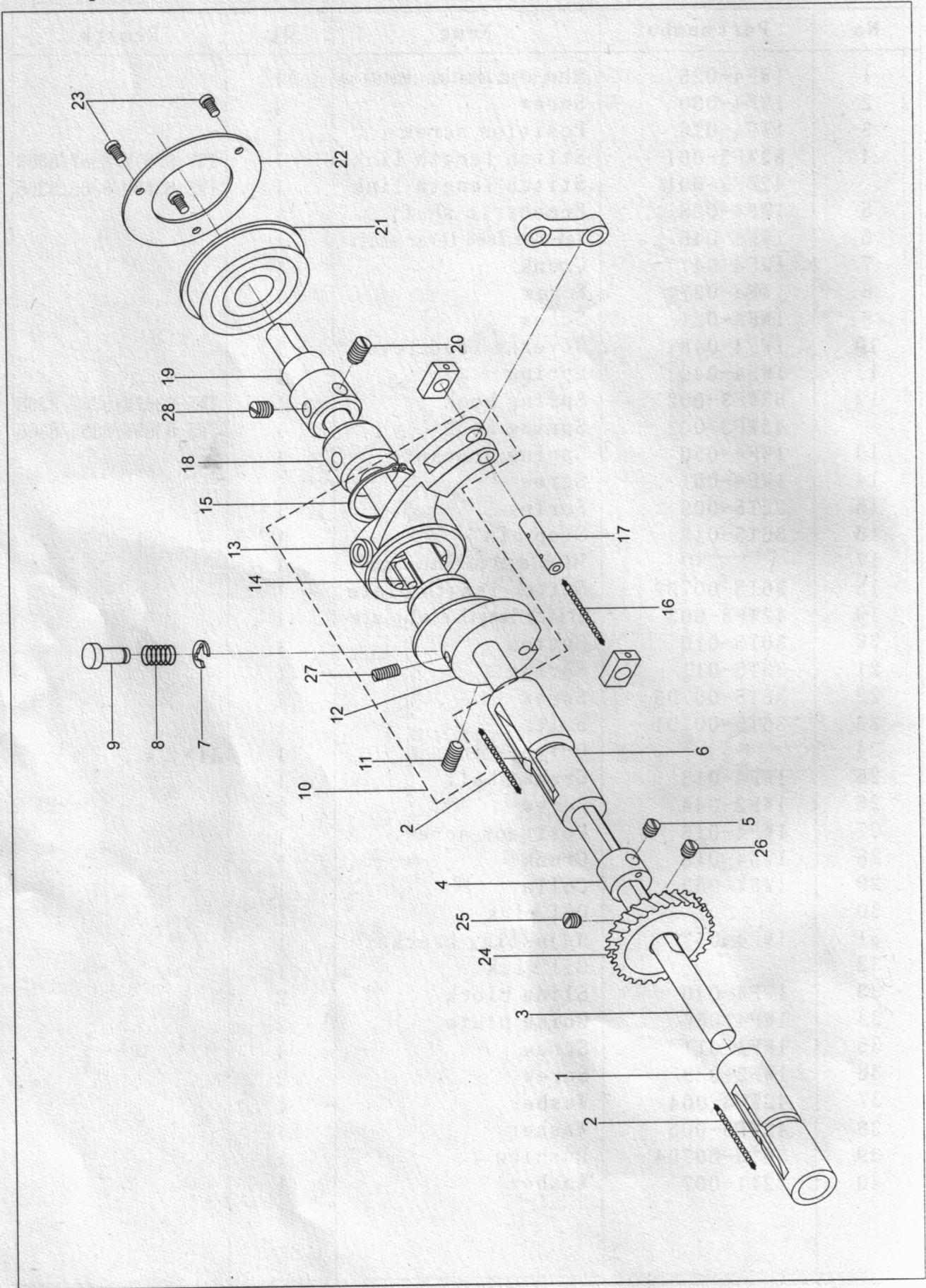
7.Reverse feed parts



7.Reverse feed parts

No	Part number	Name	Qt.	Remark
1	1WF4-025	Stitch length adjusting vibrating bar	1	
2	1WF4-030	Screw	4	
3	1WF4-026	Position screw	1	
4	53WF3-001	Stitch length link	1	TW5-8367M/8367/8368
	42WF3-001	Stitch length link	1	TW5-8365M/8365/8366
5	1WF4-028	Eccebtric shaft	1	
6	1WF4-046	Reverse feed lever shaft	1	
7	1WF4-047	Crank	1	
8	1WF4-027	8screw	1	
9	1WF4-021	Screw	1	
10	1WF4-048	Reverse feed lever	1	
11	1WF4-049	Spring	1	
12	53WF3-002	Spring hook	1	TW5-8367M/8367/8368
	43WF3-002	Spring hook	1	TW5-8365M/8365/8366
13	1WF4-050	Spring bracket	1	
14	1WF4-051	Screw	1	
15	22T5-009	Spring	1	
16	36T5-012	Stop pin	1	
17		Stitch length dial plate assembly	1	
18	36T5-007D2	Stitch length plate	1	
19	42WF3-003	Stitch length dial plate	1	
20	36T5-010	Button	1	
21	36T5-011	Spring	1	
22	36T5-007D5	Screw	1	
23	36T5-007D1	Bolt	1	
24		O-type ring	1	14×2.4
25	1WF4-013	Crank shaft	1	
26	1WF2-044	Screw	2	
27	1WF4-016	Position screw	1	
28	1WF4-015	Crank	1	
29	1WF4-053	Collar	1	
30		Oil wick	1	
31	1WF4-057	Adjusting bracket	1	
32		Oil wick	1	
33	1WF4-040	Slide block	2	
34	1WF4-056	Guide plate	2	
35	1WF1-011	Screw	4	
36	1WF2-038	Screw	2	
37	42WF3-004	Washer	1	
38	42WF3-005	Washer	1	
39	36T5-007D4	Bushing	1	
40	22T1-007	Washer	1	

8.Feed parts

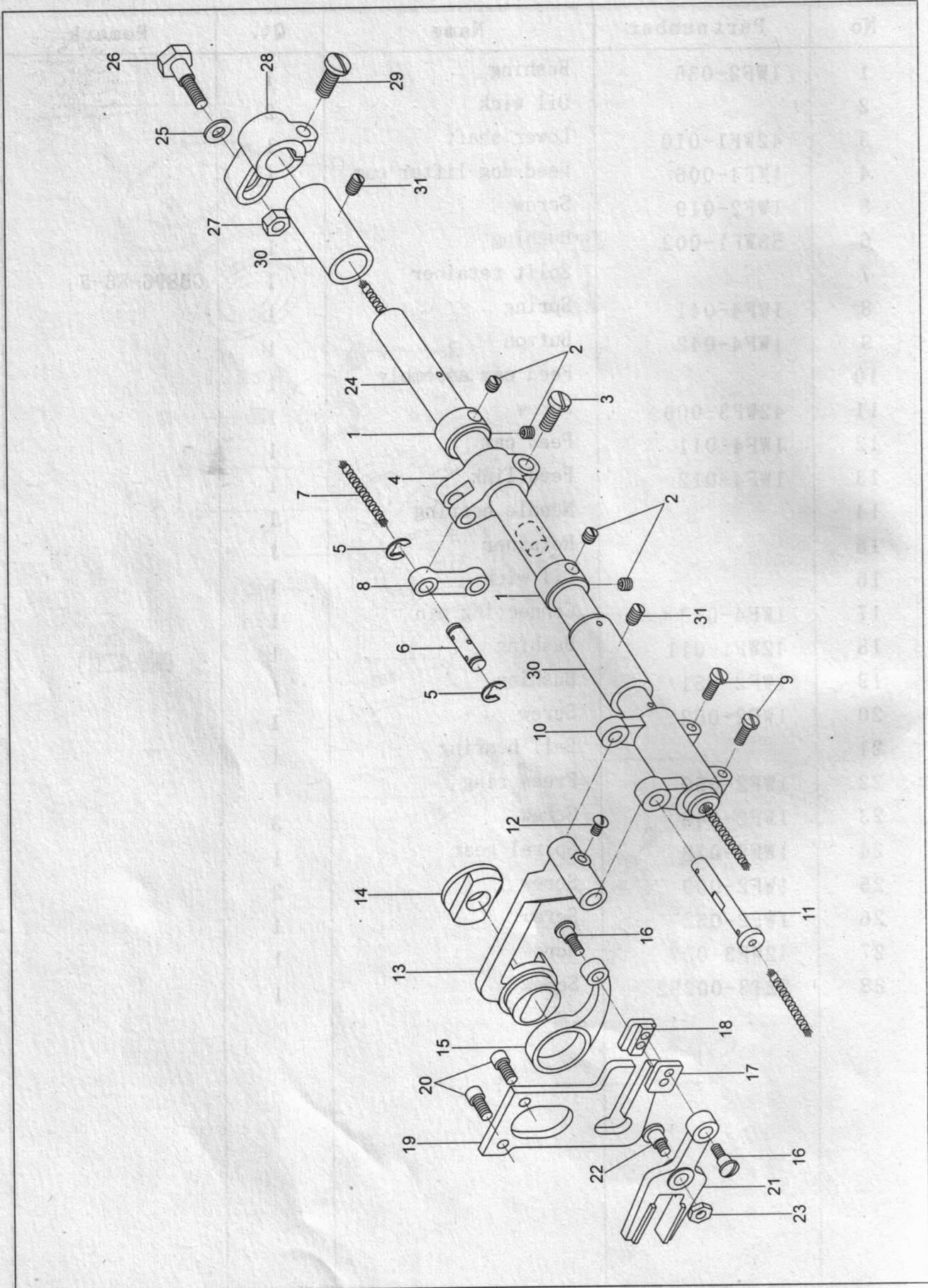


8.Feed parts

No	Part number	Name	Qt.	Remark
1	1WF2-035	Bushing	1	
2		Oil wick	2	
3	42WF1-010	Lower shaft	1	
4	1WF4-006	Feed dog lifter cam	1	
5	1WF2-019	Screw	1	
6	53WF1-002	Bushing	1	
7		Split retainer	1	GB896-86-5
8	1WF4-041	Spring	1	
9	1WF4-042	Button	1	
10		Feed cam assembly	1	
11	42WF3-006	Screw	1	
12	1WF4-011	Feed cam	1	
13	1WF4-012	Feed link	1	
14		Needle bearing	1	
15		Retainer	1	
16		Oil wick	1	
17	1WF4-043	Connecting pin	1	
18	42WF1-011	Bushing	1	
19	1WF2-051	Bushing	1	
20	1WF2-052	Screw	1	
21		Ball bearing	1	
22	1WF2-050	Press ring	1	
23	1WF2-049	Screw	3	
24	1WF2-078	Spiral gear	1	
25	1WF2-009	Screw	2	
26	1WF2-052	Screw	1	
27	42WF3-007	Screw	1	
28	22T3-002B2	Screw	1	

9.Feed mechanism (TW5-8365M/8367M)

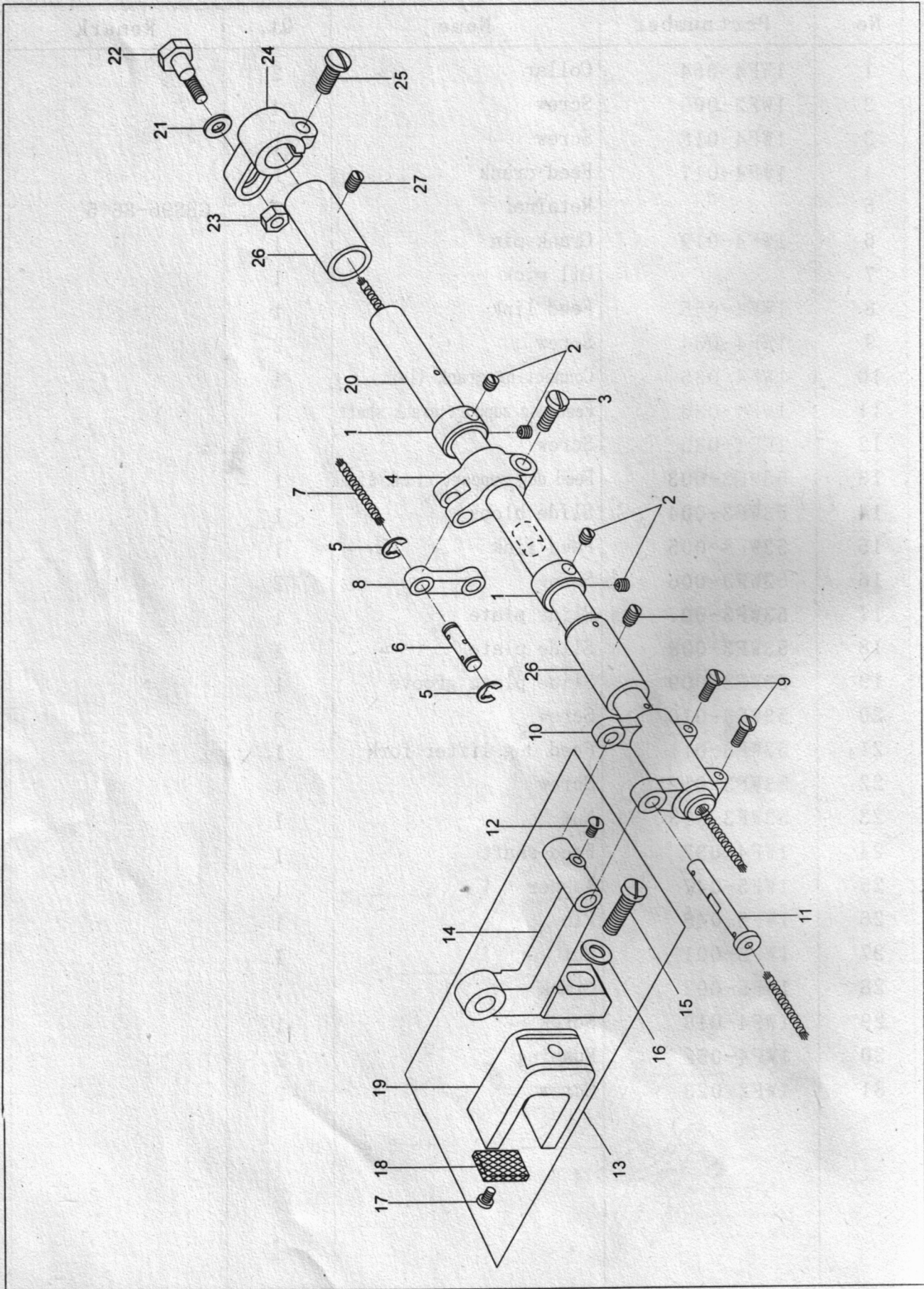
8.Feed parts



9.Feed mechanism (TW5-8365M/8367M)

No	Part number	Name	Qt.	Remark
1	1WF4-054	Collar	2	
2	1WF2-009	Screw	4	
3	1WF4-018	Screw	1	
4	1WF4-017	Feed crank	1	
5		Retainer	2	GB896-86-5
6	1WF4-019	Crank pin	1	
7		Oil wick	1	
8	1WF4-055	Feed link	1	
9	1WF4-034	Screw	2	
10	1WF4-035	Connecting crank (left)	1	
11	1WF4-036	Feed dog support crank shaft	1	
12	1WF4-033	Screw	1	
13	53WF3-003	Feed dog support crank link	1	
14	53WF3-004	Slide block	1	
15	53WF3-005	Feed link	1	
16	53WF3-006	Screw	2	
17	53WF3-007	Slide plate	1	
18	53WF3-008	Slide plate	1	
19	53WF3-009	Slide plate groove	1	
20	53WF3-010	Screw	2	
21	53WF3-011	Feed dog lifter fork	1	
22	53WF3-012	Screw	1	
23	53WF3-013	Nut	1	
24	1WF4-037	Feed shaft	1	
25	1WF5-047	Washer	1	
26	1WF5-046	Pin	1	
27	1WF5-001	Nut	1	
28	1WF5-002	Crank	1	
29	1WF4-018	Screw	1	
30	1WF4-052	Bushing	2	
31	1WF2-023	Screw	2	

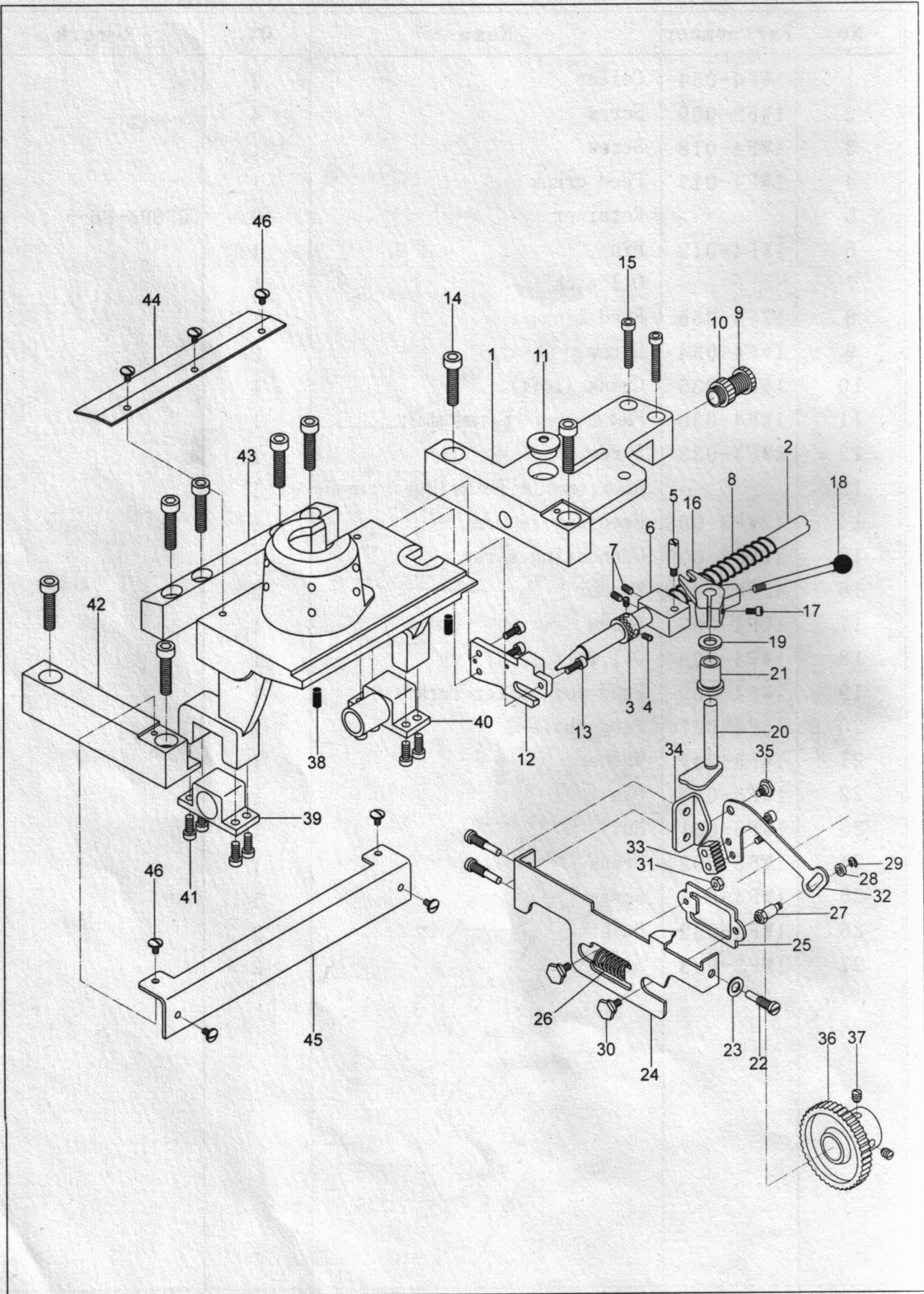
9. Feed mechanism (TW5-8365/8366/8367/8368)



9. Feed mechanism (TW5-8365/8366/8367/8368)

No	Partnumber	Name	Qt.	Remark
1	1WF4-054	Collar	2	
2	1WF2-009	Screw	4	
3	1WF4-018	Screw	1	
4	1WF4-017	Feed crank	1	
5		Retainer	2	GB896-86-5
6	1WF4-019	Pin	1	
7		Oil wick	1	
8	1WF4-055	Feed link	1	
9	1WF4-034	Screw	2	
10	1WF4-035	Crank (left)	1	
11	1WF4-036	Feed dog support crank shaft	1	
12	1WF4-033	Screw	1	
13		Feed dog support and feed dog lifter fork assembly	1	
14	42WF3-008	Feed dog support	1	
15	42WF3-009	Connecting screw	1	
16	42WF3-010	Washer	2	
17	1WF4-007	Screw	1	
18	1WF4-008	Oil felt	1	
19	1WF4-009	Feed dog lifter fork	1	
20	1WF4-037	Feed shaft	2	
21	1WF5-047	Washer	1	
22	1WF5-046	Pin	1	
23	1WF5-001	Nut	1	
24	1WF5-002	Crank	1	
25	1WF4-018	Screw	1	
26	1WF4-052	Bushing	2	
27	1WF2-023	Screw	2	

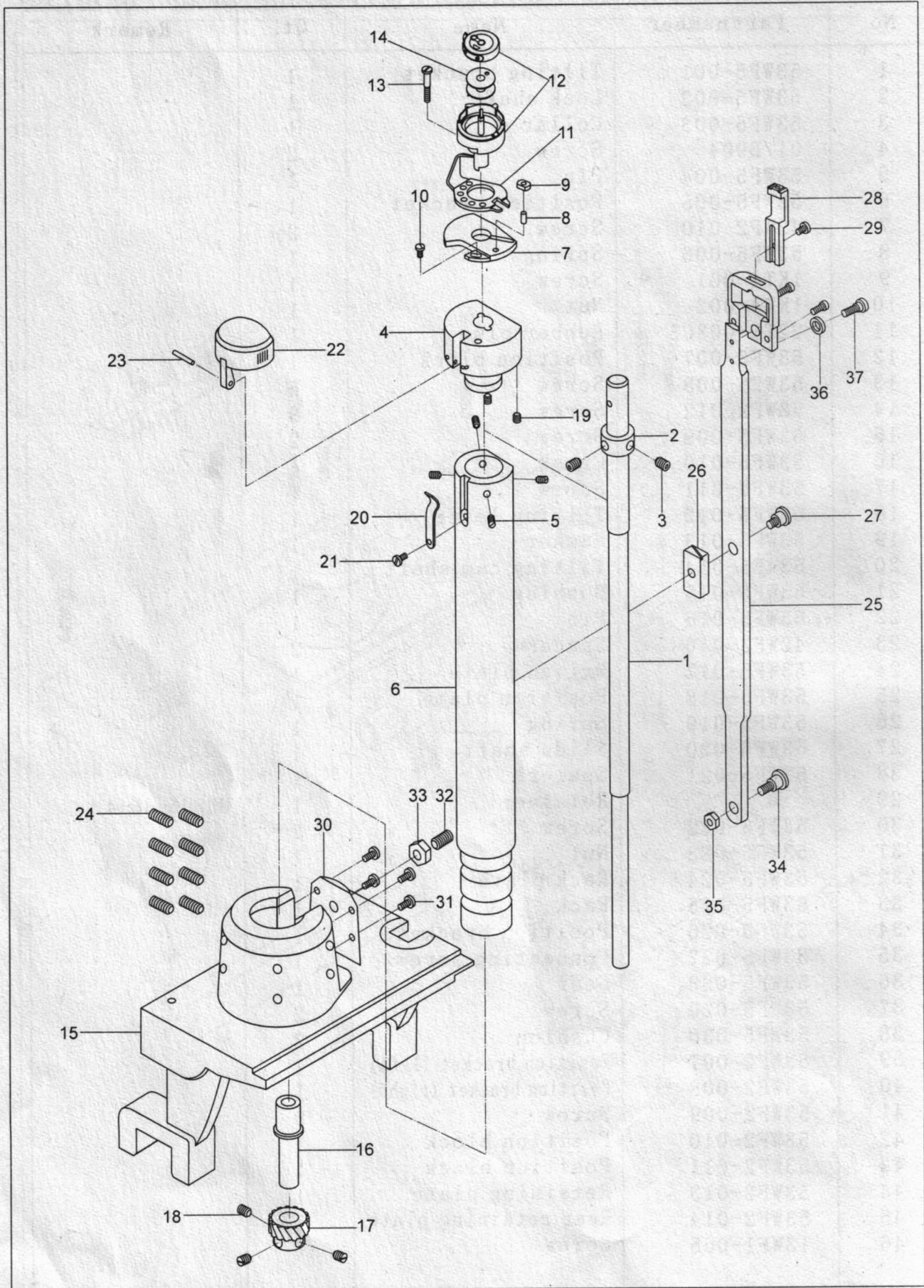
10. Tilting lock mechanism (TW5-8365M/8367M)



10. Tilting lock mechanism (TW5-8365M/8367M)

No	Partnumber	Name	Qt.	Remark
1	53WF5-001	Tilting bracket	1	
2	53WF5-002	Lock shaft	1	
3	53WF5-003	Collar	1	
4	01/B904	Screw	2	
5	53WF5-004	Pin	1	
6	53WF5-005	Position bracket	1	
7	42WF2-010	Screw	2	
8	53WF5-006	Spring	1	
9	1KT4-001	Screw	1	
10	1KT4-002	Nut	1	
11	22T1-003C3	Rubber plug	1	
12	53WF5-007	Position block	1	
13	53WF5-008	Screw	5	
14	53WF2-012	Screw	8	
15	53WF5-009	Screw	2	
16	53WF5-010	Crank	1	
17	53WF5-011	Screw	1	
18	53WF5-012	Tilting lever	1	
19	53WF5-013	Washer	1	
20	53WF5-014	Tilting cam shaft	1	
21	53WF5-015	Bushing	1	
22	53WF5-016	Pin	1	
23	42WF3-010	Spacer	2	
24	53WF5-017	Driven plate	1	
25	53WF5-018	Position plate	1	
26	53WF5-019	Spring	1	
27	53WF5-020	Slide shaft	1	
28	53WF5-021	Spacer	1	
29		Retainer	1	GB896-86-4
30	53WF5-022	Screw	2	
31	53WF5-023	Nut	1	
32	53WF5-024	Rack plate	1	
33	53WF5-025	Rack	1	
34	53WF5-026	Position bracket	1	
35	53WF5-027	Connecting screw	1	
36	53WF5-028	Gear	1	
37	53WF5-029	Screw	2	
38	53WF5-030	Cushion	2	
39	53WF2-007	Position bracket (left)	1	
40	53WF2-008	Position bracket (right)	1	
41	53WF2-009	Screw	8	
42	53WF2-010	Position block	1	
43	53WF2-011	Position block	1	
44	53WF2-013	Retaining plate	1	
45	53WF2-014	Rear retaining plate	1	
46	13WF1-065	Screw	7	

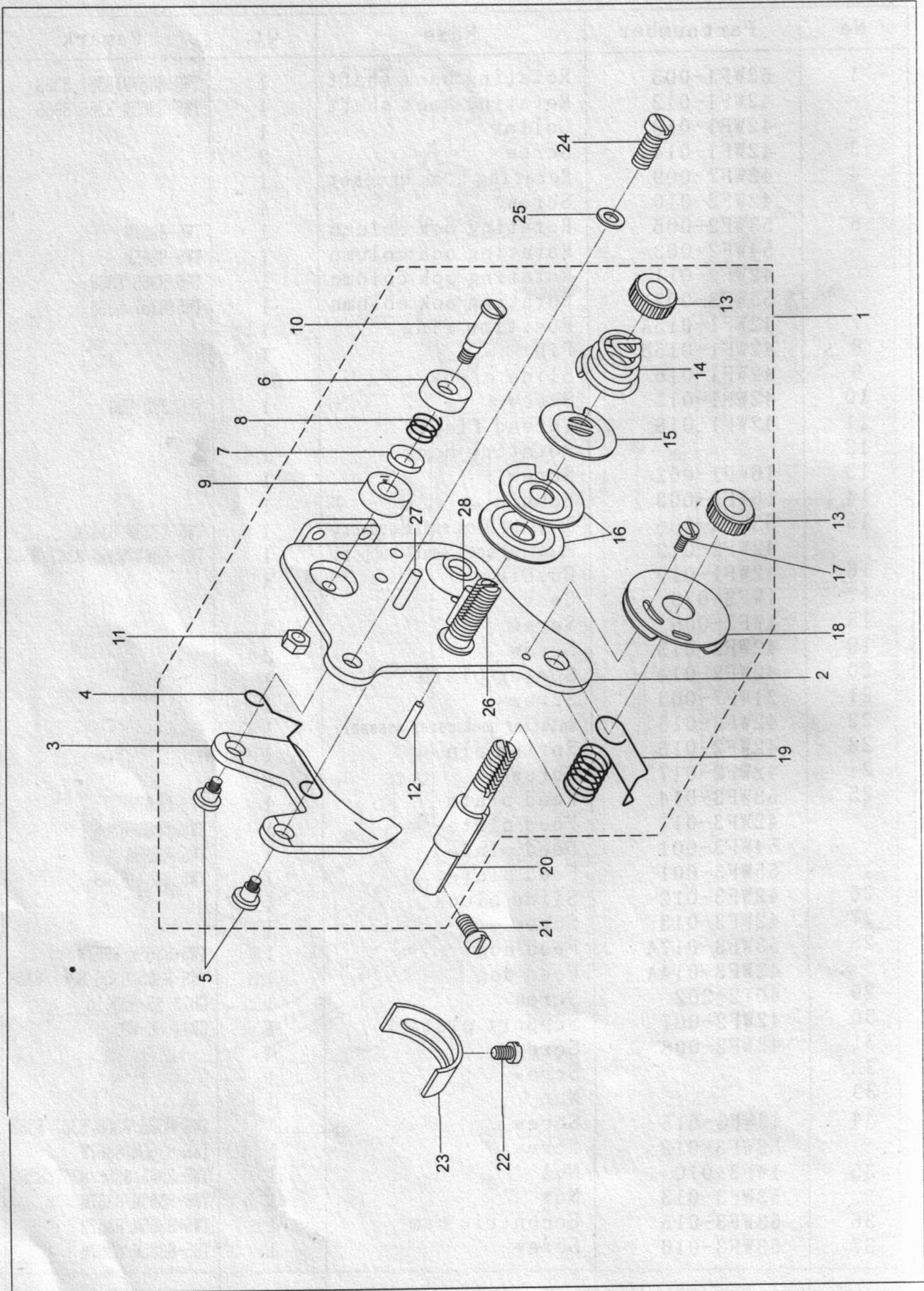
11. Rotating hook column parts



11. Rotating hook column parts

No	Part number	Name	Qt.	Remark
1	53WF1-003	Rotating hook shaft	1	TW5-8367M/8367/8368
	42WF1-012	Rotating hook shaft	1	TW5-8365M/8365/8366
2	42WF1-013	Collar	1	
3	42WF1-014	Screw	2	
4	42WF2-009	Rotating hook bracket	1	
5	42WF2-010	Screw	4	
6	53WF2-005	Rotating hook column	1	TW5-8367M
	54WF2-003	Rotating hook column	1	TW5-8365M
	42WF2-011	Rotating hook column	1	TW5-8365/8366
	55WF3-002	Rotating hook column	1	TW5-8367/8368
7	42WF1-015A	Position ring	1	
8	42WF1-015B	Pin	1	
9	42WF1-016	Slide block	1	
10	42WF1-017	Screw	1	SKRT390-HBG
11	42WF1-018	Thread finger	1	
12		Rotating hook	1	
13	16WF1-062	Screw	1	
14	16WF1-063	Bobbin	1	
15	53WF2-006	Rotating hook shaft support	1	TW5-8365M/8367M
	42WF2-012	Rotating hook shaft support	1	TW5-8365/8366/8367/8368
16	42WF1-019	Bushing	1	
17	1WF2-079	Gear	1	
18	1WF2-009	Screw	3	
19	42WF2-013	Screw	2	
20	42WF2-014	Spring plate	1	
21	21WF7-003	Screw	1	
22	42WF2-015	Rotating hook cover assembly	1	
23	42WF2-016	Spring pin	1	
24	42WF2-017	Screw	8	
25	53WF3-014	Feed plate	1	TW5-8367M
	42WF3-011	Feed plate	1	TW5-8365/8366
	54WF3-001	Feed plate	1	TW5-8365M
	55WF3-001	Feed plate	1	TW5-8367/8368
26	42WF3-012	Slide block	1	
27	42WF3-013	Screw	1	
28	53WF3-017A	Feed dog	1	TW5-8365M/8367M
	42WF3-014A	Feed dog	1	TW5-8365/8366/8367/8368
29	40T2-202	Screw	1	GB73-85-M8×16
30	42WF2-007	Support plate	1	GB41-86-M8
31	42WF2-008	Screw	4	
32		Screw	1	
33		Nut	1	
34	42WF3-015	Screw	1	TW5-8365/8366/8367/8368
	53WF3-012	Screw	1	TW5-8365M/8367M
35	1WF3-010	Nut	1	TW5-8365/8366/8367/8368
	53WF3-013	Nut	1	TW5-8365M/8367M
36	53WF3-015	Eccentric cam	1	TW5-8365M/8367M
37	53WF3-016	Screw	1	TW5-8365M/8367M

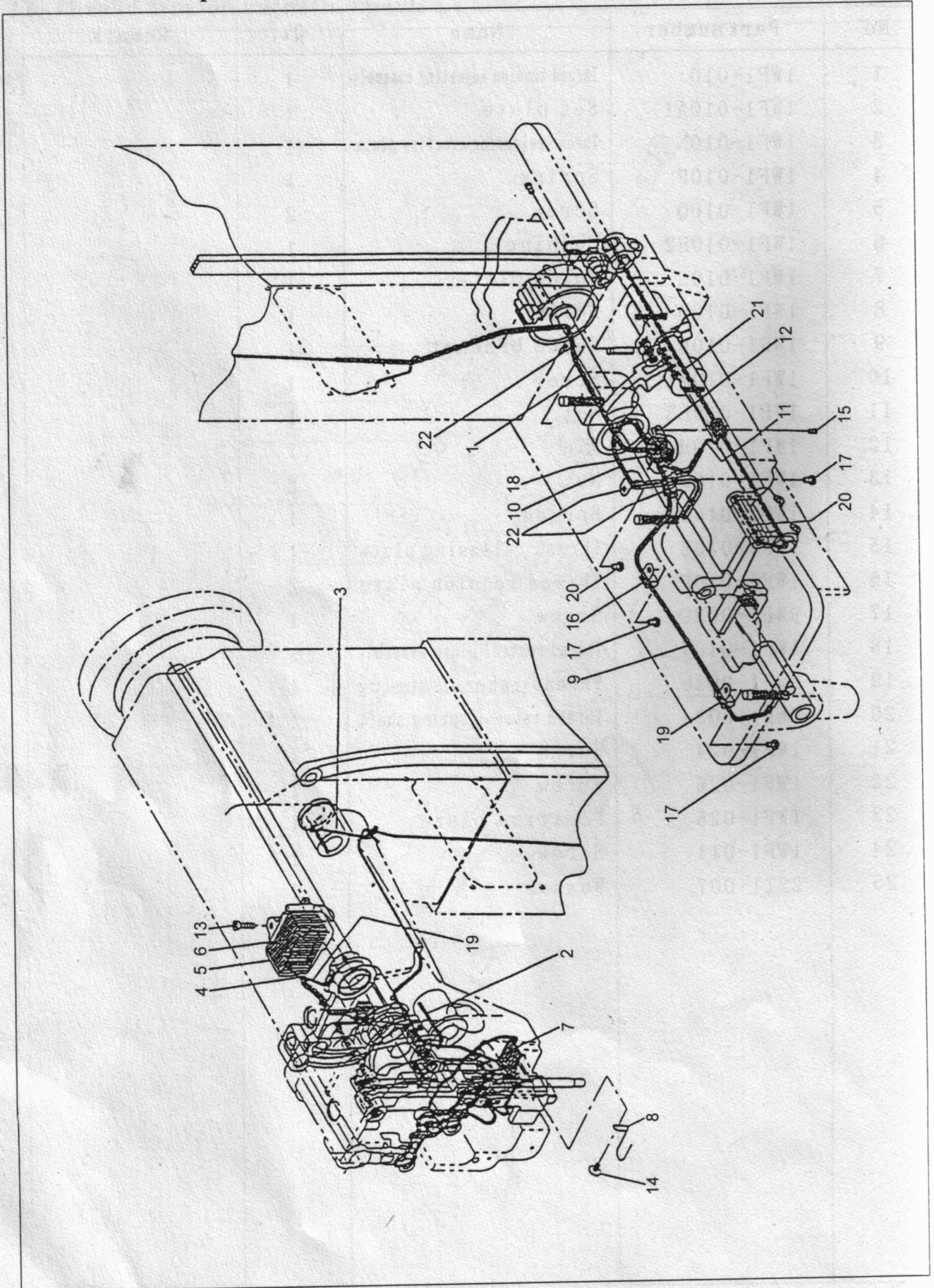
12. Thread tension adjusting parts



12. Thread tension adjusting parts

No	Part number	Name	Qt.	Remark
1	1WF1-010	Thread tension adjusting assembly	1	
2	1WF1-010A1	Set plate	1	
3	1WF1-010N	Thread releasing erecting plate	1	
4	1WF1-010P	Spring	1	
5	1WF1-010Q	Screw	2	
6	1WF1-010E2	Bushing	1	
7	1WF1-010C	Guide plate	1	
8	1WF1-010D	Spring	1	
9	1WF1-010B	Guide bracket	1	
10	1WF1-010E1	Screw	1	
11	1WF1-010E3	Nut	1	
12	1WF1-010M	Pin	1	
13	1WF1-010H	Nut	2	
14	1WF1-010G	Spring	1	
15	1WF1-010S	Thread releasing plate	1	
16	1WF1-010F	Thread tension plate	2	
17	9WF1-003C	Screw	1	
18	1WF1-010J	Thread control plate assembly	1	
19	9WF1-003b	Thread take-up spring	1	
20	9WF1-003a	Thread take-up spring shaft	1	
21	1WF1-024	Screw	1	
22	1WF1-026	Screw	1	
23	1WF1-025	Position plate	1	
24	1WF1-011	Screw	1	
25	22T1-007	Washer	1	

13. Lubrication parts

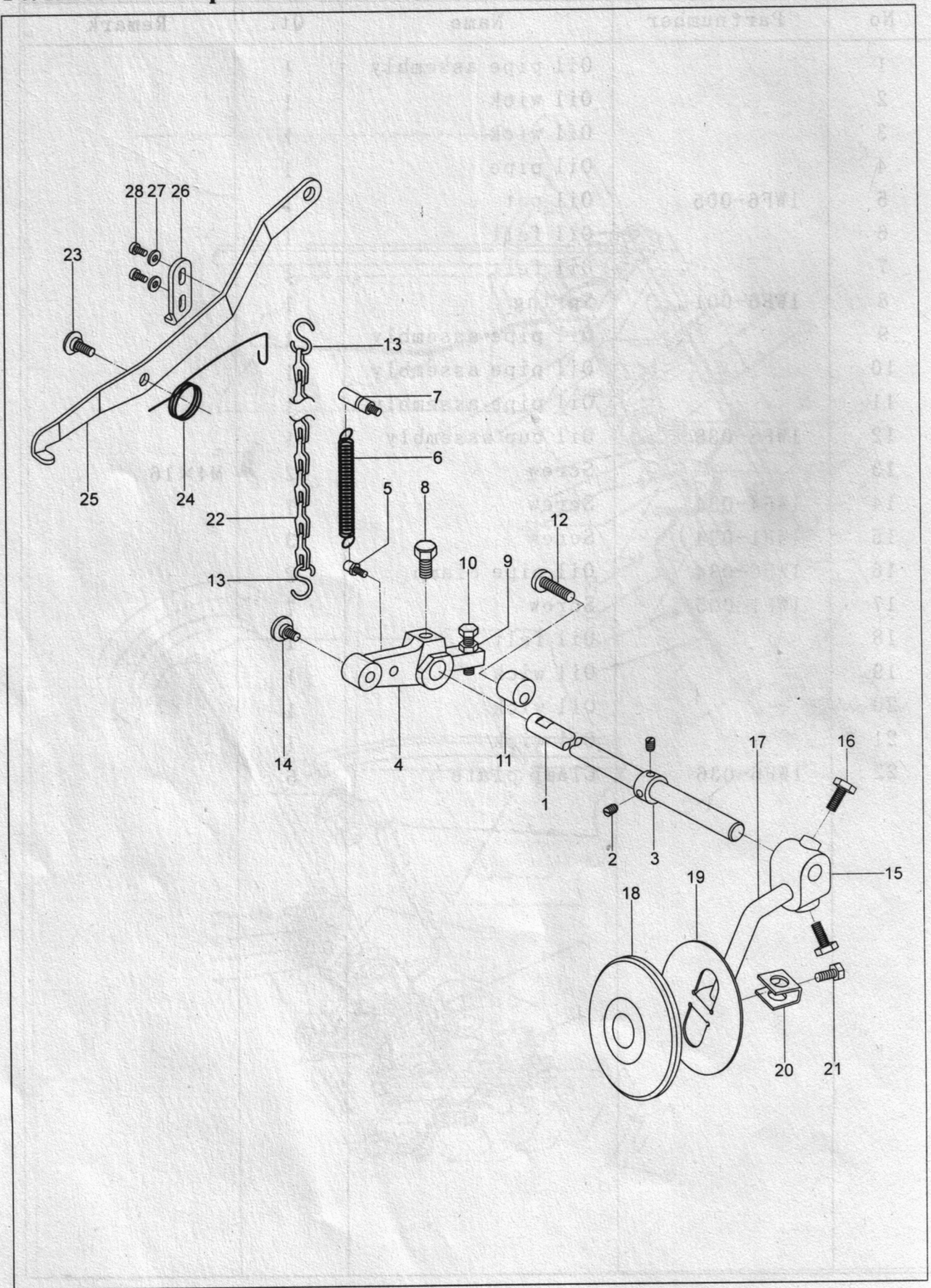


13. Lubrication parts

No	Part number	Name	Qt.	Remark
1		Oil pipe assembly	1	
2		Oil wick	1	
3		Oil wick	1	
4		Oil pipe	1	
5	1WF6-005	Oil pot	1	
6		Oil felt	1	
7		Oil felt	1	
8	1WF6-001	Spring	1	
9		Oil pipe assembly	1	
10		Oil pipe assembly	1	
11		Oil pipe assembly	1	
12	1WF6-038	Oil cup assembly	1	
13		Screw	2	M4×16
14	1WF4-034	Screw	1	
15	1WF1-024	Screw	3	
16	1WF6-034	Oil pipe clamp	2	
17	1WF1-005	Screw	7	
18		Oil felt	1	
19		Oil wick	1	
20		Oil wick	1	
21		Oil wick	1	
22	1WF6-036	Clamp plate	5	

14. Knee control parts

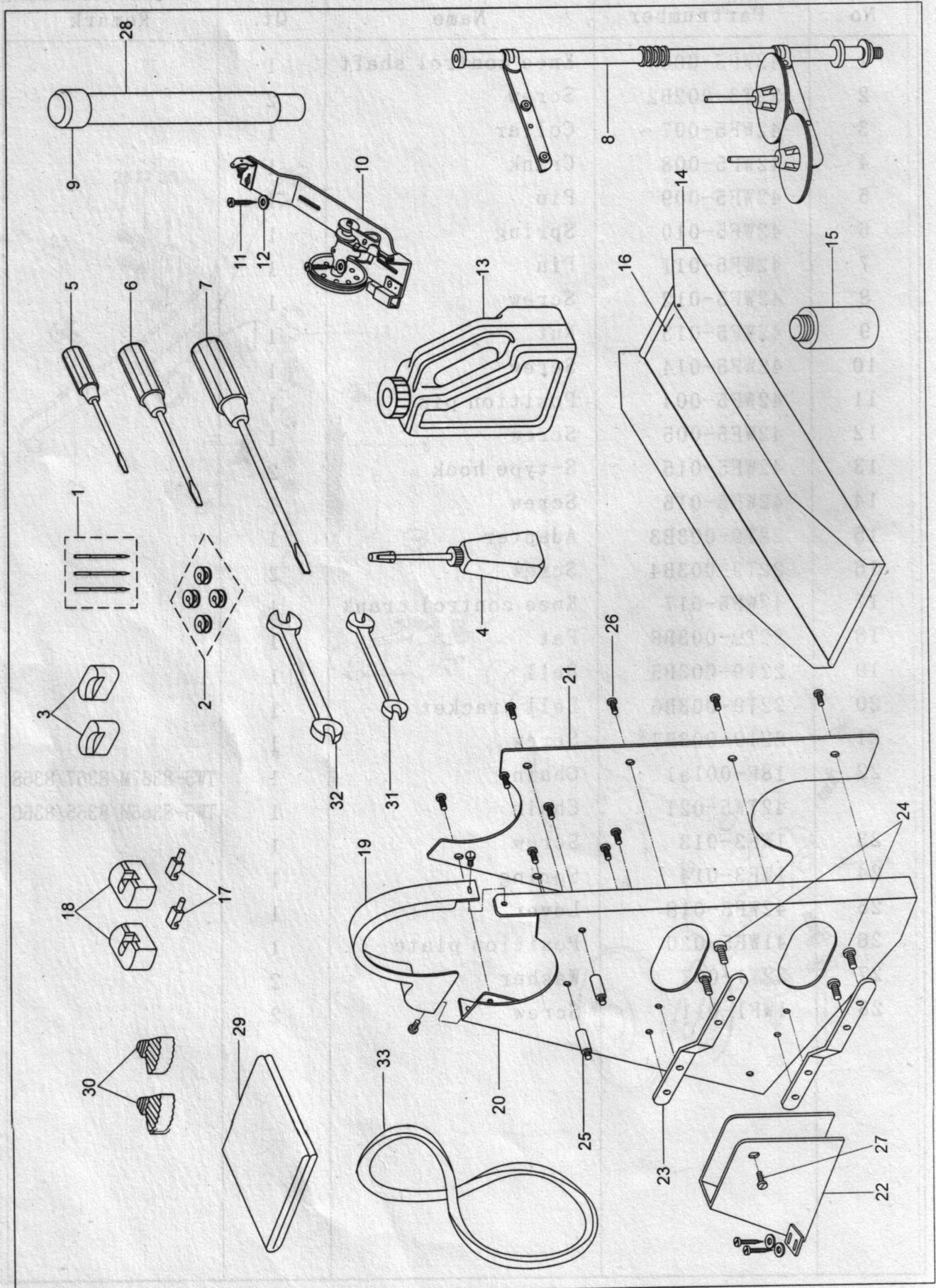
13. Lubrication parts



14. Knee control parts

No	Part number	Name	Qt.	Remark
1	42WF5-006	Knee control shaft	1	
2	22T3-002B2	Screw	2	
3	42WF5-007	Collar	1	
4	42WF5-008	Crank	1	
5	42WF5-009	Pin	1	
6	42WF5-010	Spring	1	
7	42WF5-011	Pin	1	
8	42WF5-012	Screw	1	
9	42WF5-013	Nut	1	
10	42WF5-014	Screw	1	
11	42WF5-004	Position pin	1	
12	42WF5-005	Screw	1	
13	42WF5-015	S-type hook	2	
14	42WF5-016	Screw	1	
15	22T9-003B3	Adapter	1	
16	22T9-003B4	Screw	2	
17	42WF5-017	Knee control crank	1	
18	22T9-003B8	Pat	1	
19	22T9-003B5	Bell	1	
20	22T9-003B6	Bell bracket	1	
21	22T9-003B7	Screw	1	
22	18F-001a1	Chain	1	TW5-8367M/8367/8368
	42TW5-021	Chain	1	TW5-8365M/8365/8366
23	1WF3-013	Screw	1	
24	1WF3-014	Spring	1	
25	42WF5-018	Lever	1	
26	41WF5-020	Position plate	1	
27	22T1-007	Washer	2	
28	1WF1-011	Screw	2	

15. Accessory



15. Accessory

No	Partnumber	Name	Qt.	Remark
1		Needle	3	DP×17 22#
2	16WF1-063	Bobbin	4	
3	42WF5-001	Cushion	2	
4	33TF-011	Oil pot	1	
5	33TF-014	Screwdriver	1	
6	33TF-013	Screwdriver	1	
7	33TF-012	Screwdriver	1	
8	53WF6-005	Thread spool stand assembly	1	TW5-8367M/8367/8368
	42WF6-002	Thread spool stand assembly	1	TW5-8365M/8365/8366
9	42WF6-005	Rubber plug	1	
10	27F-002	Bobbin winder assembly	1	
11		Screw	4	GB5282-85-ST4.8×19
12	33TF-018	Washer	4	
13	1F-012	Oil tank	1	
14	42WF6-003	Oil reservoir assembly	1	
15		Oil pot	1	
16		Screw	12	1.25-inch iron screw
17	13WF7-004	Connecting hook	2	
18	13WF7-002	Hinge socket	2	
19	53WF6-002A	Cover plate	1	TW5-8367M/8367/8368
	42WF6-012A	Cover plate	1	TW5-8365M/8365/8366
20	53WF6-002B	Inside plate	1	TW5-8367M/8367/8368
	42WF6-012B	Inside plate	1	TW5-8365M/8365/8366
21	53WF6-002C	Outside plate	1	TW5-8367M/8367/8368
	42WF6-012C	Outside plate	1	TW5-8365M/8365/8366
22	53WF6-002D	Accessory plate assembly	1	TW5-8367M/8367/8368
	42WF6-012D	Accessory plate assembly	1	TW5-8365M/8365/8366
23	42WF6-012E	Support plate	2	
24	16WF6-004	Screw	4	
25	42WF6-012F	Screw	2	
26	36T5-008E5	Screw	17	
27	1WF5-032	Screw	1	
28	42WF6-004	Stay pole	1	
29	42F5-001	Cover	1	
30	42WF6-006	Cushion	2	
31		Spanner	1	GB4388-84
32		Spanner	1	GB4388-84
33		V-belt	1	M77/M62

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

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