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# **TYPICAL**

# **TW1-1245-D2**

**SINGLE NEEDLE COMPOUND FEED  
LOCKSTITCH SEWING MACHINE WITH  
THREAD TRIMMER**

**OPERATION INSTRUCTION / 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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ADD: WANPING TOWN, WUJIANG CITY, JIANGSU  
PROVINCE, CHINA

TEL: +86-512-63391278

FAX: +86-512-63391371

POST. CODE: 215223

[Http://www.typicalwpchina.com](http://www.typicalwpchina.com)

E-mail: [export@typicalwpchina.com](mailto:export@typicalwpchina.com)

# OPERATION INSTRUCTION

# CONTENT

## OPERATION INSTRUCTION

|                                                                        |    |
|------------------------------------------------------------------------|----|
| 1. Brief introduction.....                                             | 1  |
| 2. Main specifications.....                                            | 1  |
| 3. Feed adjustment/reverse stitching.....                              | 1  |
| 4. Adjusting the upper feed stroke.....                                | 1  |
| 5. Winding bobbin thread.....                                          | 2  |
| 6. Adjusting the bobbin thread tension.....                            | 2  |
| 7. Threading needle thread/adjusting the tension of needle thread..... | 2  |
| 8. Maintenance.....                                                    | 3  |
| 9. Oiling.....                                                         | 3  |
| 10. Lubricating the hook.....                                          | 4  |
| 11. Lubricating the machine head.....                                  | 4  |
| 12. Lubricating the upper feed driving eccentric.....                  | 4  |
| 13. Adjusting the feed dog.....                                        | 5  |
| 14. Pre-adjusting the needle height.....                               | 6  |
| 15. Centering the needle in the needle hole.....                       | 6  |
| 16. Adjusting the feed dog position.....                               | 6  |
| 17. Lower feed adjustment.....                                         | 7  |
| 18. Position of needle and rotary hook.....                            | 7  |
| 19. Adjusting the lifting amount of presser feet.....                  | 7  |
| 20. Top feed adjustment.....                                           | 8  |
| 21. Adjusting the bobbin case opener.....                              | 8  |
| 22. Safety clutch.....                                                 | 8  |
| 23. Needle thread tension release.....                                 | 9  |
| 24. Bobbin thread winder.....                                          | 9  |
| 25. Adjusting the height of movable knife.....                         | 9  |
| 26. Adjusting the position of fixed knife.....                         | 10 |
| 27. The position of thread holding spring plate.....                   | 10 |
| 28 Safety mechanism for machine head.....                              | 10 |

## PARTS MANUAL

|                                                      |       |
|------------------------------------------------------|-------|
| 1. Machine casting components.....                   | 11-12 |
| 2. Needle and presser foot components.....           | 13-16 |
| 3. Presser foot lifting components.....              | 17-18 |
| 4. Thread take-up and thread tension components..... | 19-20 |
| 5. Feed adjusting components.....                    | 21-22 |
| 6. Upper shaft and rocking shaft components.....     | 23-24 |
| 7. Timing belt components.....                       | 25-26 |
| 8. Hook saddle components.....                       | 27-28 |
| 9. Needle plate and hook components.....             | 29-30 |
| 10. Lower feed components.....                       | 31-32 |
| 11. Lower shaft components.....                      | 33-34 |
| 12. Auto-reverse stitching components.....           | 35-36 |
| 13. Automatic thread trimmer components.....         | 37-38 |
| 14. Tension release components.....                  | 39-40 |
| 15. Accessories.....                                 | 41-44 |

## 1. Brief introduction

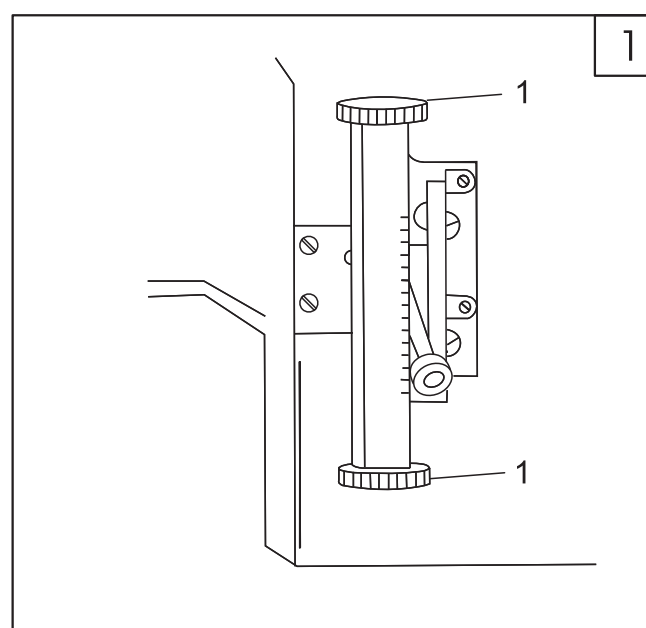
Machine adopts compound feed and the max. lifting amount of presser feet reaches 7mm, which guarantees the high sewing quality of different materials. Besides, it adopts the large self-lubrication hook, 4-link thread take-up and timing belt driven mechanism, which assures its lower noise even at high speed. This machine is widely used in manufacturing suitcase, sofa, car seat, upholstery, etc.

## 2. Main specification

|                    |                       |
|--------------------|-----------------------|
| Application        | Medium and heavy duty |
| Max. sewing speed  | 2000 s.p.m            |
| Max. stitch length | 8mm                   |
| Needle bar stroke  | 36mm                  |
| Needle             | DPx35 (Nm80-Nm140)    |
| Lubrication        | Semi-lubrication      |
| Motor              | AC Servo motor        |

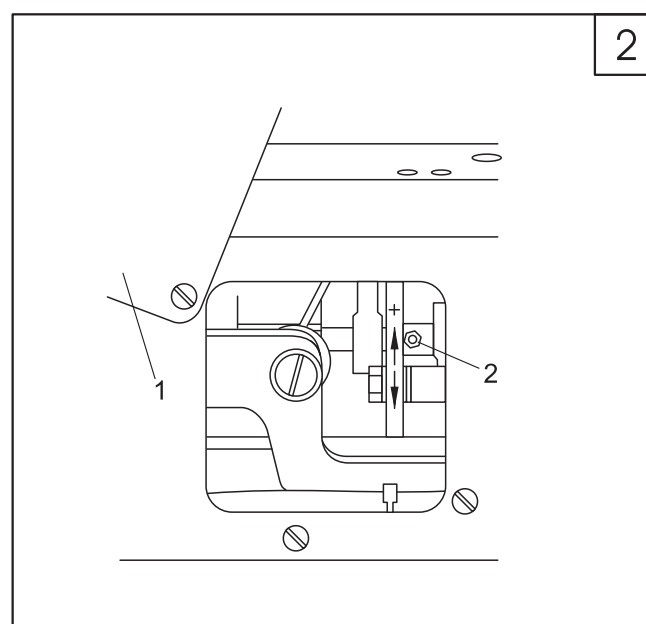
## 3. Feed adjustment/reverse stitching (Fig. 1)

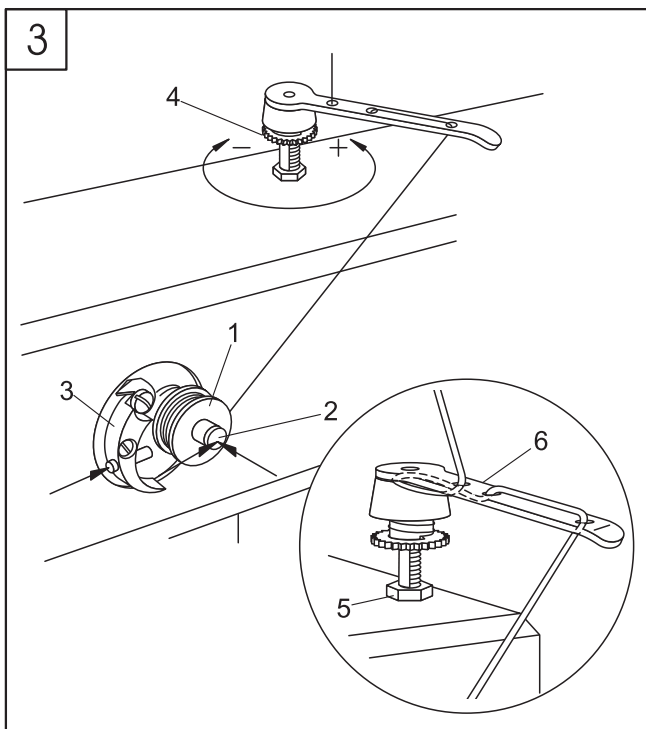
To adjust the stitch length by turn the dial 1. And lift the bar to start the reverse stitching.



## 4. Adjusting the upper feed stroke(Fig. 2)

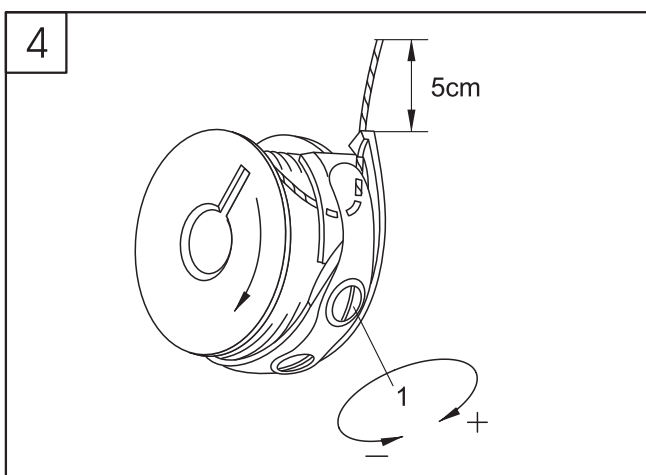
Open the rear cover 1, loosen the screw 2, and upon required, move it up or down.





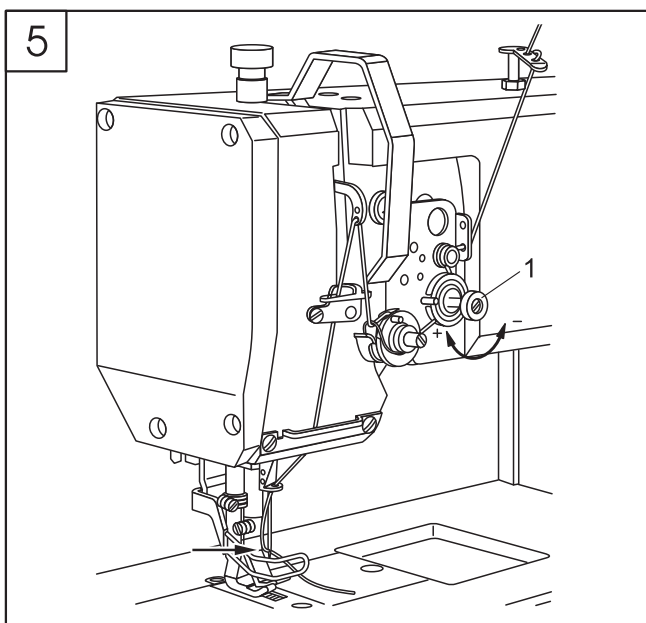
### 5. Winding bobbin thread (Fig. 3)

1. Put the bobbin into the bobbin shaft 2;
  2. As shown by Fig. 3, draw out the thread and winding several circles clockwise on the bobbin;
  3. Press down the shaft 2 and the gib 3 to start the winding;
  4. Adjust the tension of bobbin 1 by turning the screw 4;
  5. When the bobbin winding is full, the winding operation will stop automatically;
- If the winding is abnormal, loosen the nut 5, and as required, move the thread guide 6, then tighten the nut 5.



### 6. Adjusting the bobbin thread tension (Fig. 4)

1. Draw out the bobbin thread shown by Fig. 4.  
When the bobbin thread is drawn out, the bobbin should turn as the arrow goes.
2. Adjusting the tension of bobbin thread by turning the screw 1.



### 7. Threading needle thread/adjusting the tension of needle thread (Fig. 5)

1. Threading as the Fig. 5 shows;  
Pass the thread through the needle eye from the left side
2. Adjusting the tension of needle thread by turning the screw 1.

## 8. Maintenance(Fig. 6)

|                                        |              |
|----------------------------------------|--------------|
| Clean hook aperture                    | Every day    |
| Normal oiling                          | Twice a week |
| Machine head oiling                    | Twice a week |
| Check oil box for hook                 | Once a week  |
| Clean hook                             | Once a week  |
| Oiling the upper feed driven eccentric | Once a year  |

※ The above data is due to the normal situation, if the machine is used frequently, the interval of the maintenance should be shortened.

Maintenance for rotary hook (Fig. 6)

1.Clean the hook aperture with brush every day;

2.Clean the rotary hook thoroughly every week as follows:

a.Open the slide plate and lift the needle bar to it's highest point;

b.Take out the bobbin cap and bobbin;

c.Release the gib 1, turn the hand wheel until the Point 2 passes to the Groove 3 more than 5mm, then take out the inner hook 4;

d.Clean the hook track with paraffin wax;

e.When install the inner hook, make sure that the horn 5 must be touched with the groove under the needle plate;

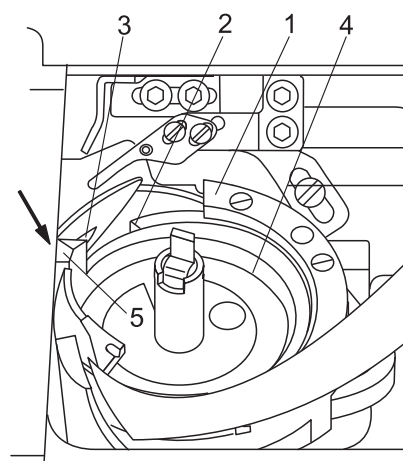
f.Tighten the gib 1, put the bobbin and bobbin cap and close the slide plate.

## 9. Oiling (Fig. 7)

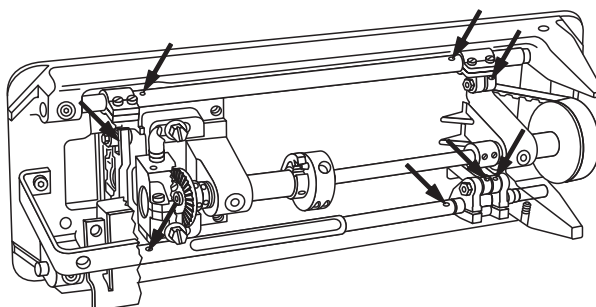
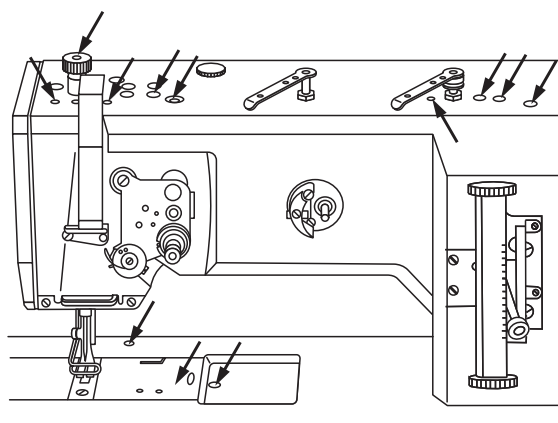
Oiling the machine twice a week at the position showed by the arrows.

Please use 10# sewing oil

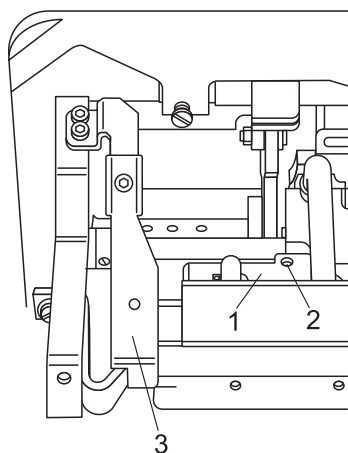
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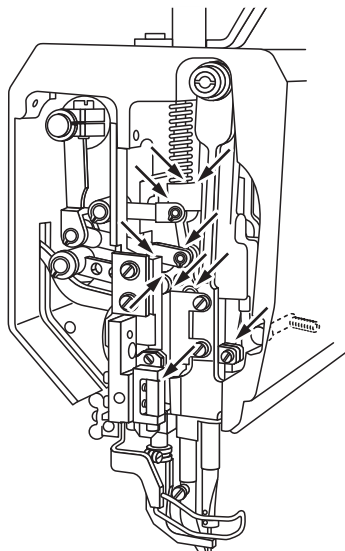
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### 10. Lubricating the hook (Fig. 8)

1. Pull out the knee lever, then lay down the machine head;
2. Fill the oil into box 1 through the hole 2 until the oil level exceeds the highest level mark;
3. Raise the machine head.

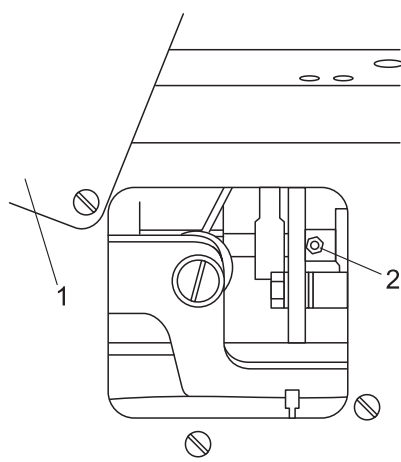
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### 11. Lubricating the machine head (Fig. 9)

1. Open the face plate;
2. Oil at all moving position twice a week as illustrated;
3. Close the face plate.

10



### 12. Lubricating the upper feed driving eccentric (Fig. 10)

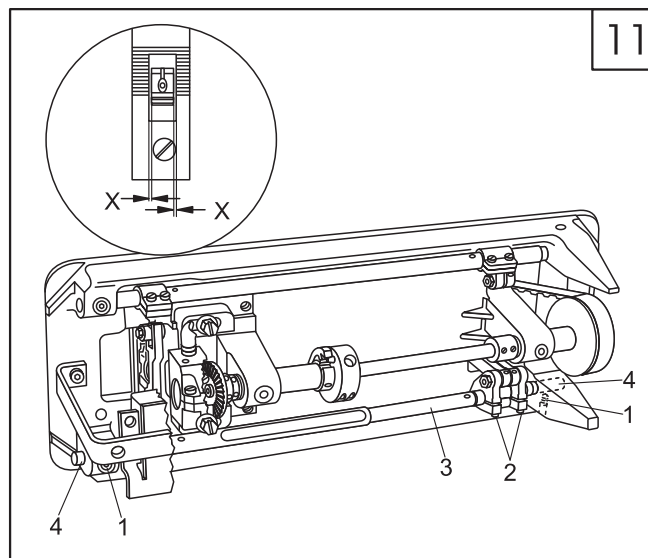
1. Open the back cover 1;
2. Supply the grease on the interface 2 at least once a year.
3. Close the back cover 1.

### 13. Adjusting the feed dog

1. Positioning the feed dog across the direction of sewing (Fig. 11)

- Loosen the screw 1 and 2;
- Adjust the shaft 3 as required;
- Tighten the screw 1. (keep the screw 2 loosening for the following adjustment)

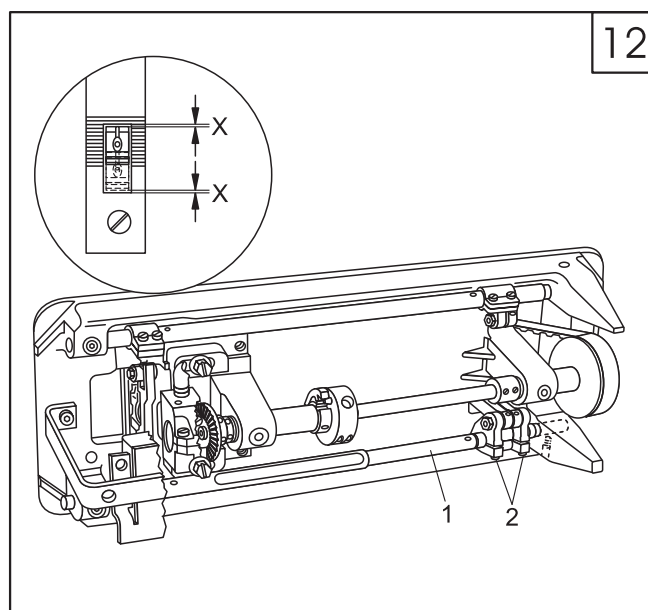
✕The feed dog must be the same distance from the left and right side of the needle plate cutout.



2. Positioning the feed dog in the direction of sewing (Fig. 12)

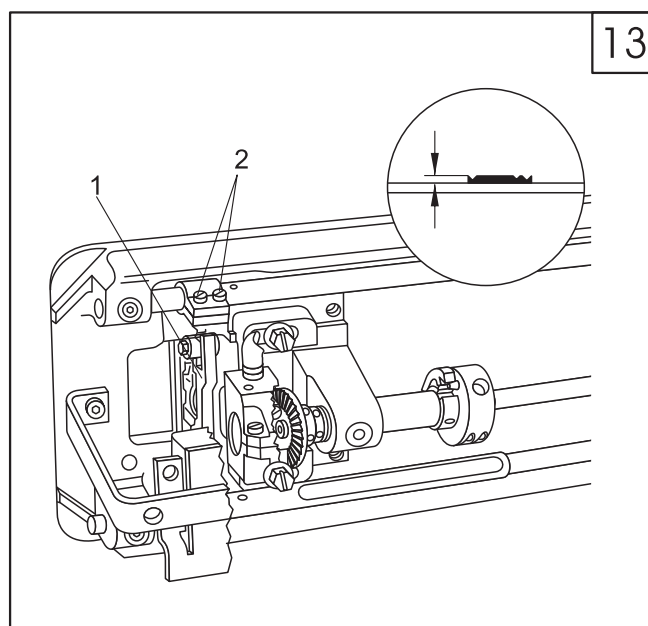
- Set the stitch length max.
- Adjust the shaft 1 as required, then tighten the screw 2.

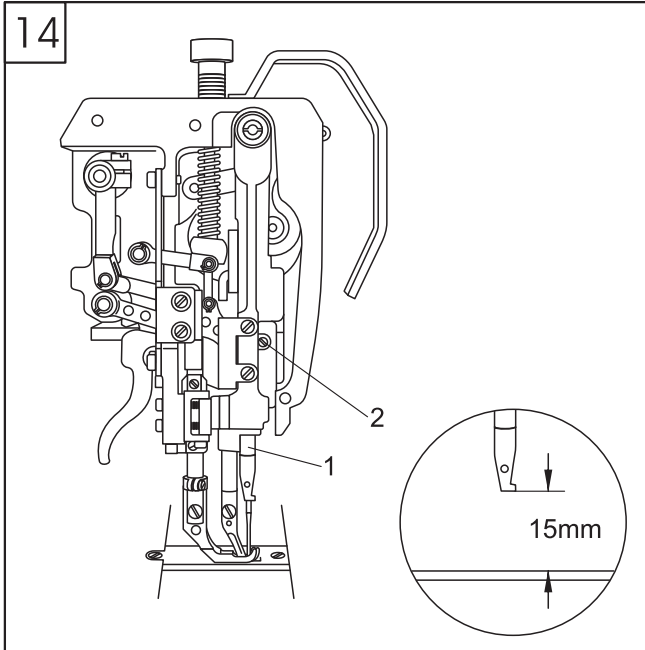
✕With the longest stitch length setting, the clearance between the front and back cutout of needle plate should be same wherever forward or backward stitching.



3. Adjust the height of feed dog (Fig. 13)

- Set the stitch length zero;
  - Turn the hand wheel until the feed dog reaches its highest position;
- Adjust the feed dog carrier 1 and screw 2 as required.

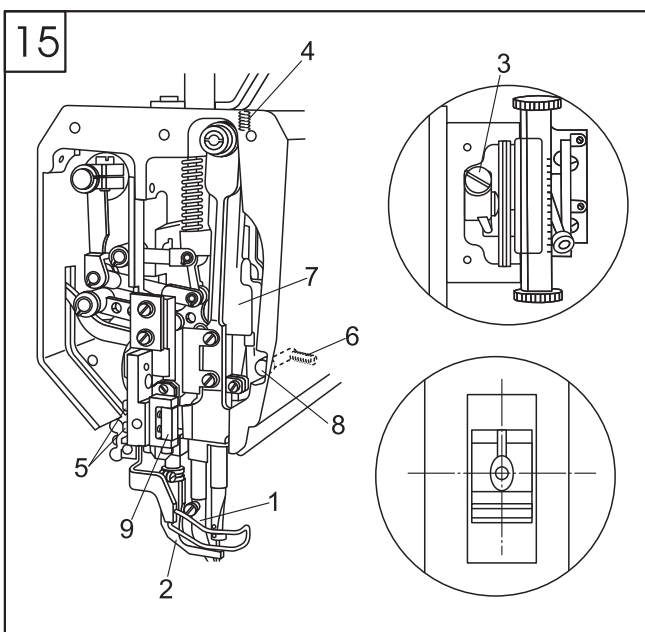




#### 14. Pre-adjust the needle height (Fig. 14)

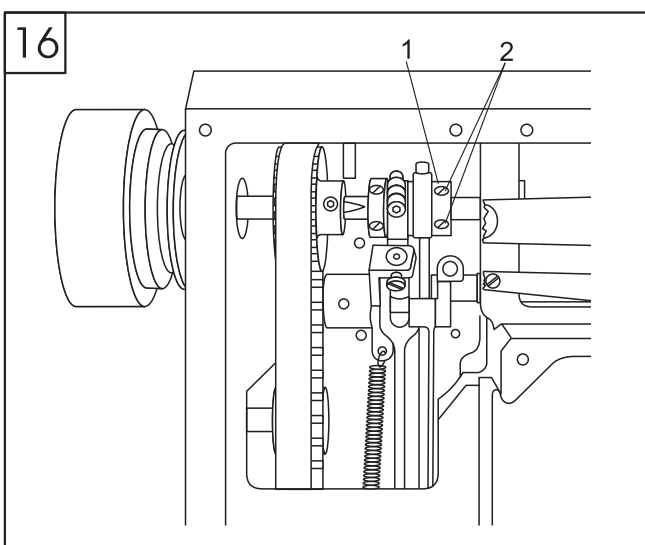
Move the needle bar 1 (screw 2) up and down and as required, adjust it to the right position.

※ When the needle bar is at the lowest position, the clearance between needle bar and needle plate should be 15mm.



#### 15. Centering the needle in the needle hole (Fig. 15)

1. Loosen the walking foot 1 and presser foot 2.
  2. Set the stitch length zero, and lift the needle bar to its highest position;
  3. Insert a new needle, and loosen the screw 3,4,5,6;
  4. Turn the hand wheel, and pass the needle directly through the feed dog;
  5. As required, move the needle bar rocking frame 7;
  6. Tighten the screw 3,4,5.
  7. Move the pin 8 to make it be touched with the needle bar frame 7, then tighten the screw 6.
- ※ When set the stitch length zero, the needle must enter the needle hole exactly in the middle.



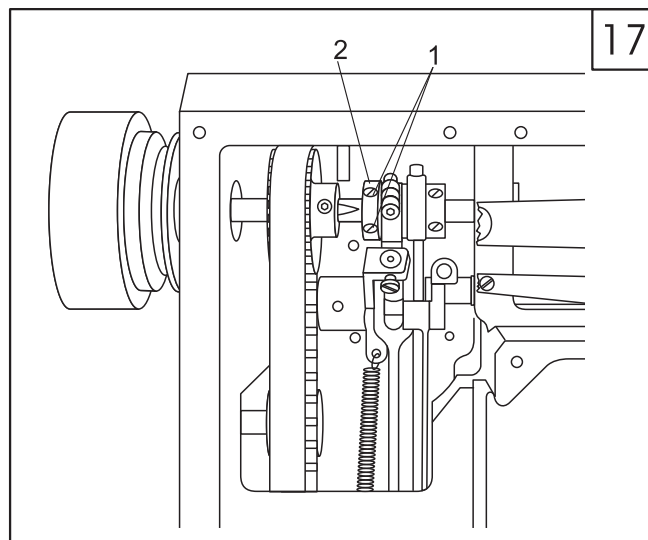
#### 16. Adjusting the feed dog position (Fig. 16)

1. Adjust the needle bar to its lowest position;
  2. Turn the eccentric cam 1 (screw 2), and adjust the feed dog to its highest position;
  3. Tighten the screw 2 to make the eccentric cam 2 not move;
  4. Set the stitch length max. and as required, slightly turn the eccentric cam 1;
  5. Tighten the screw 2.
- ※ a. When the needle bar is at its lowest position, the feed dog should be at its highest position;  
b. Set the stitch length max. ,turn the hand wheel, while the feed dog and the needle plate are at same level, the needle tip should just reaches the needle plate.

## 17. Presser foot lifter (Fig. 17)

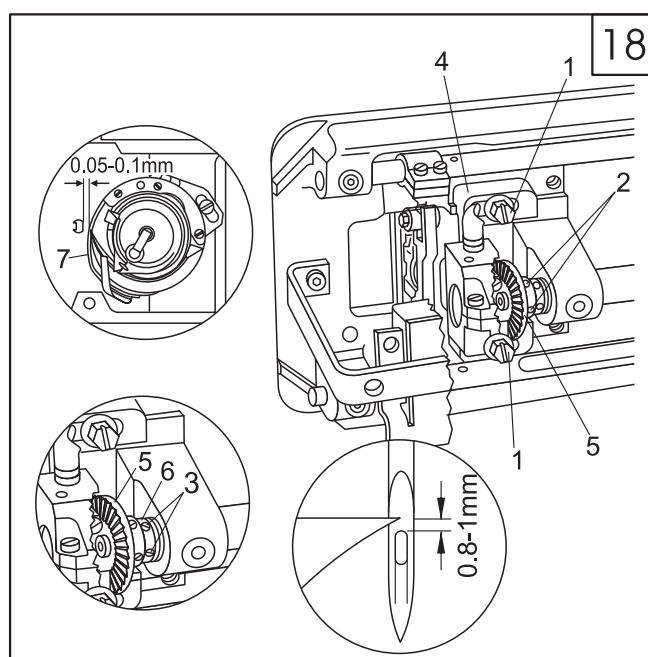
1. Set the stitch length max.
2. Loosen the screw 1 to make the feed eccentric cam 2 turn around the shaft;
3. Lower the needle bar to its lowest position;
4. Turn the eccentric cam 2 to make the eccentricity face downwards;
5. As required, turn the eccentric cam a bit as it turns, then tighten the screw 1;
6. Check again.

※ When the stitch length is set to max and the needle bar is at its lowest position, if the reverse feed bar is activated, there will be no feeding.



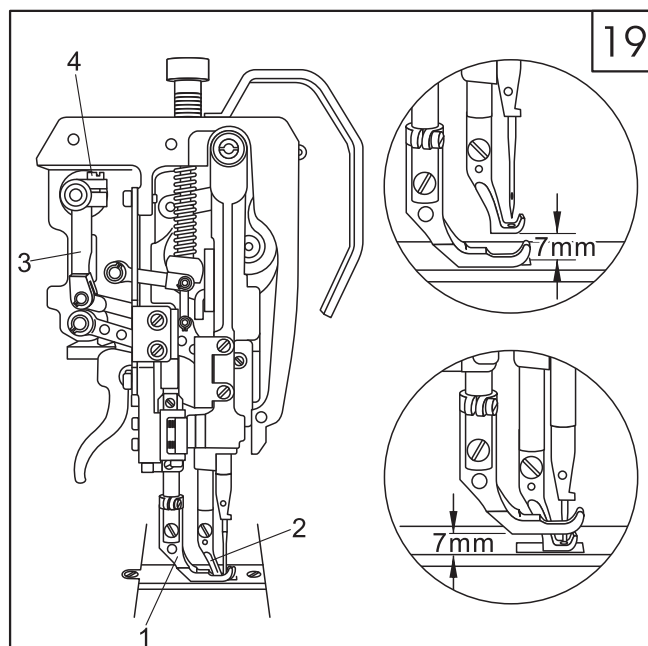
## 18. Position of needle and rotary hook (Fig. 18)

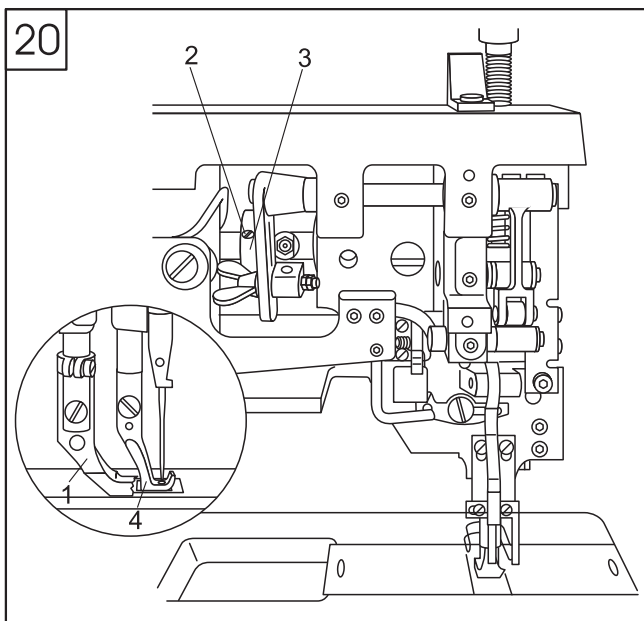
1. Set the stitch length to "3", and loosen the screw 1 and 2;
  2. The clearance between needle and the hook point should be adjusted to 0.05-0.1 mm by moving the hook gear 4;
  3. Tighten the screw 1;
  4. Lower the needle to its lowest position, and continue to turn the hand wheel to raise 2 mm from the needle's lowest position;
  5. To make the hook point aim at the center of needle, and be sure that the needle guard 7 doesn't press on the needle;
  6. Leave some gear clearance and tighten screw 2;
  7. To adjust the height of needle bar to make the vertical clearance between the top of needle eye and the hook point should be 0.8-1 mm;
  8. The needle guard 7 should touch the needle lightly.
- ※ When the stitch length is set to "3", and the needle is lifted 2 mm from its lowest position, the following requirements must be reached:
- a. The clearance between needle and hook point is 0.05-0.1 mm;
  - b. The vertical clearance between the top of needle eye and hook point is 0.8-1 mm;
  - c. The needle guard must touch the needle lightly.



## 19. Adjusting the lifting amount of presser feet (Fig. 19)

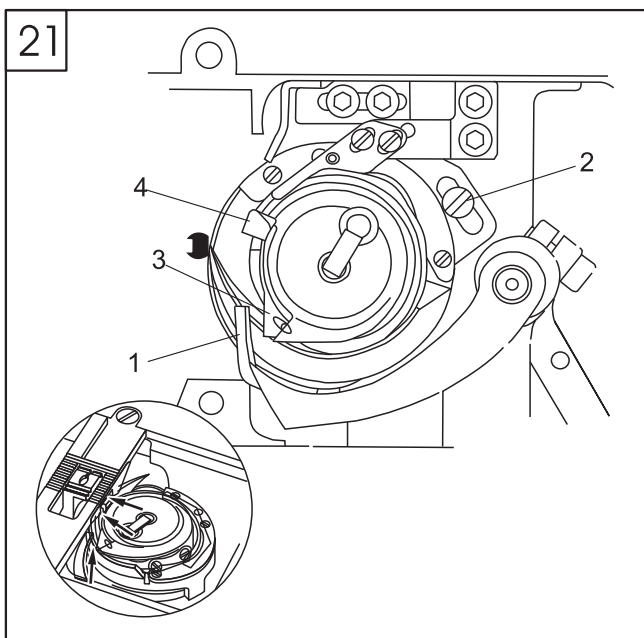
1. Set the stitch length to "zero" and the lifting amount of presser feet to max.;
  2. Lower the presser foot 1 on the needle plate;
  3. Turn the handwheel to lift the walking foot to its highest position;
  4. As required, move the crank 3 (screw 4);
  5. Check again.
- ※ When the stitch length is set to zero and the lifting amount of presser feet is at the max., turn the handwheel to make sure that both of the clearance between presser foot 1/walking foot 2 and needle plate are 7 mm.





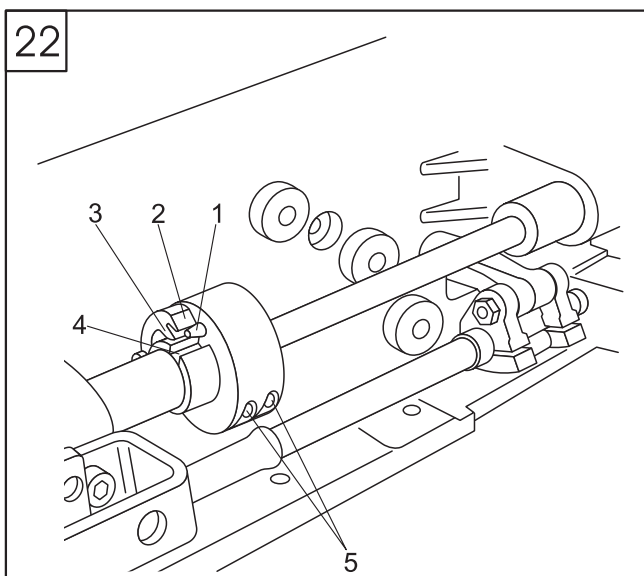
## 20. Top feed adjustment (Fig. 20)

1. Lower the presser foot on the needle plate;
  2. Loosen the screw 2 until the feed lifting eccentric cam 3 can be turned reluctantly;
  3. Adjust the eccentric cam 3 as required;
  4. Tighten the screw 2;
  5. Check again.
- ※ When the stitch length is set to max and the presser foot is lowered on the needle plate, the walking foot and the needle should reach the needle plate at the same time



## 21. Adjusting the bobbin case opener (Fig. 21)

1. Threading the bobbin and needle thread, prepare the materials to be sewn and lower the presser foot;
  2. Turn the hand wheel and sew several stitches, then check as required;
  3. Move the opener 1 (screw 2) as required.
- ※ The needle thread must not be clamped when passing through the mark 1,3,4.



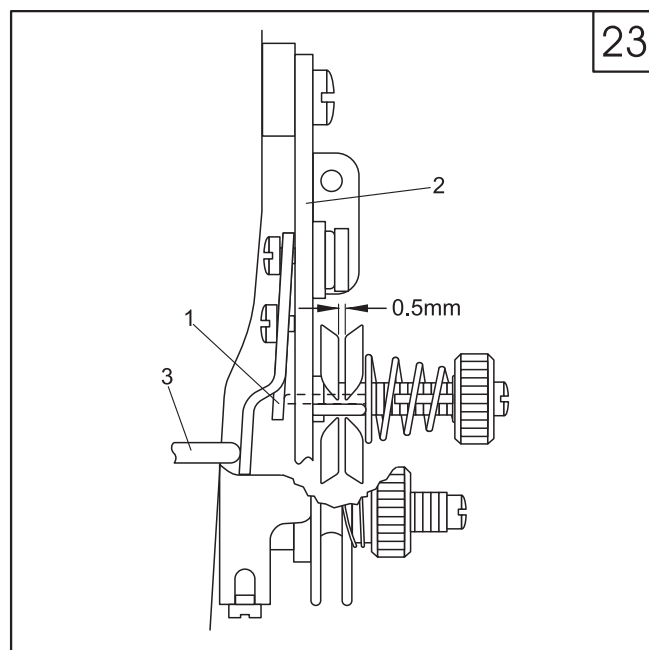
## 22. Safety clutch (Fig. 22)

1. When the thread is jammed, the safety clutch will be disengaged to prevent the hook from being damaged;
2. Take out the jammed thread;
3. Press the piston 1 and turn the hand wheel until the hook 3 of pawl 2 clicks into groove 4.

### 23. Needle thread tension release (Fig. 23)

When the presser foot is lifted, the clearance between the two tension discs should be 0.5mm (0.5mm is the min. clearance, if applied to the thick thread, it should be adjusted to 1mm or more).

Adjust the plate 1 as required.

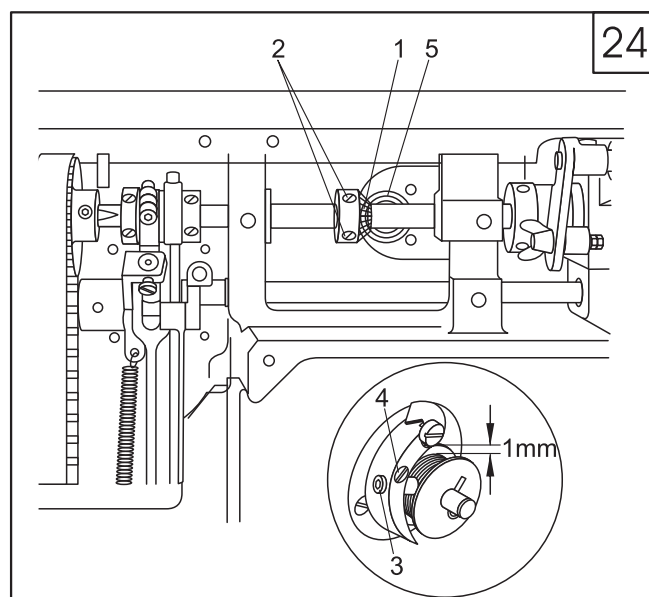


### 24. Bobbin thread winder (Fig. 24)

1.If the winder is on, it must work reliable, if the winder is off, the friction wheel 5 and the driving gear 1 should get apart;

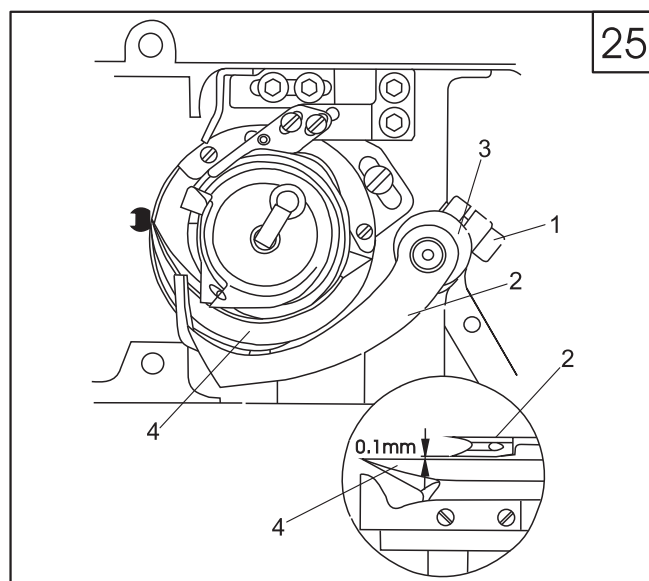
2.When the thread level is about 1mm from the edge of the bobbin, the winding operation will stop automatically;

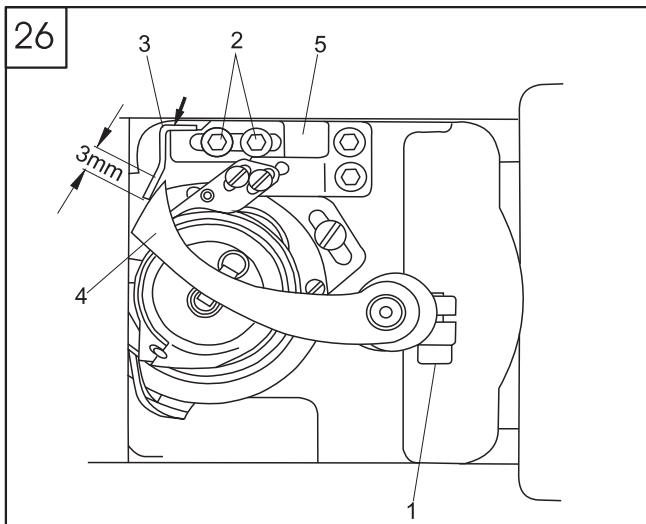
3.When winding, insert a bobbin on the winder shaft, threading and switch the winder on. Adjust the pin 3 and screw 4 as required if need.



### 25. Adjusting the height of movable knife (Fig. 25)

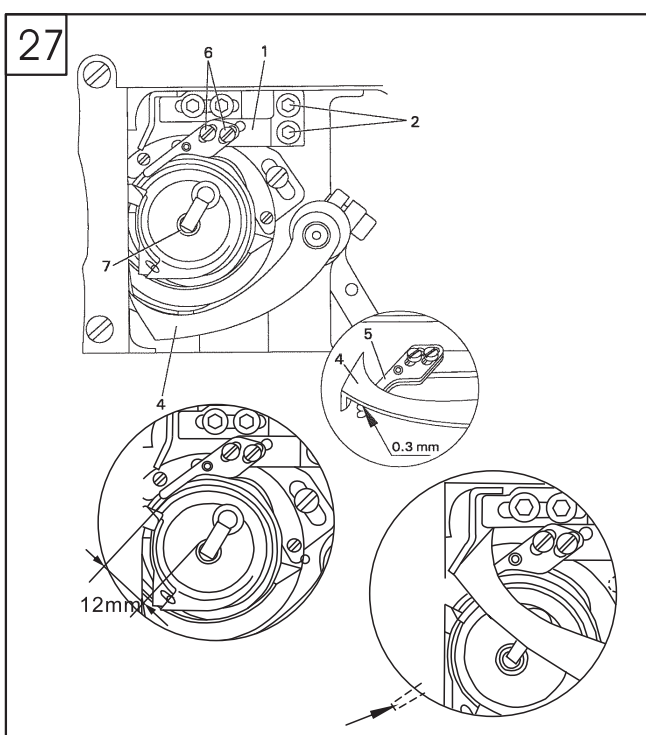
When the thread take-up lever is at its highest position, and the movable knife moves forward, the lowest point of movable knife should be higher 0.1mm than the hook surface.





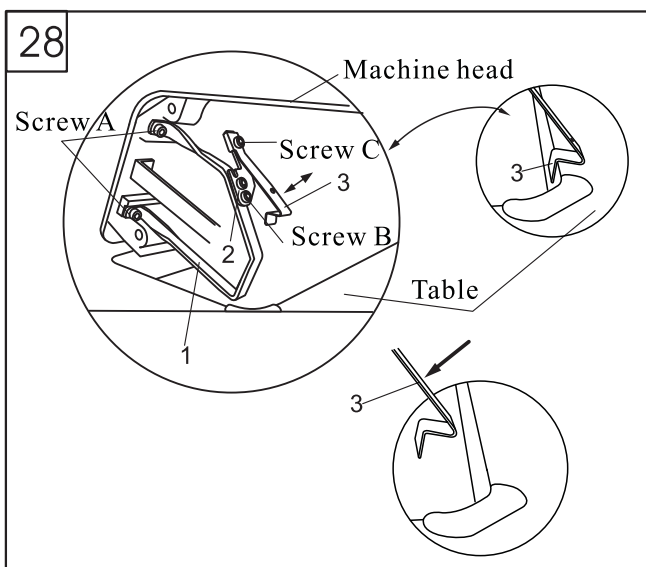
### 26. Adjusting the position of fixed knife (Fig. 26)

1. The groove of fixed knife 3 must be parallel with knife carrier 5, and cannot touch the machine casting shown by the arrow;
2. When the point of movable knife surpasses the fixed knife 3mm, the fixed knife 3 must touch the movable knife 4.



### 27. The position of thread holding spring plate (Fig. 27)

1. The clearance between movable knife 4 and thread holding spring plate 5 should guarantee 0.3mm;
2. When the movable knife 4 starts to move backward, the front point of plate 5 must be at the same line with the back of movable knife. (shown by arrow);
3. The clearance between the inner edge of spring plate 5 and the bush 7 is 12mm.



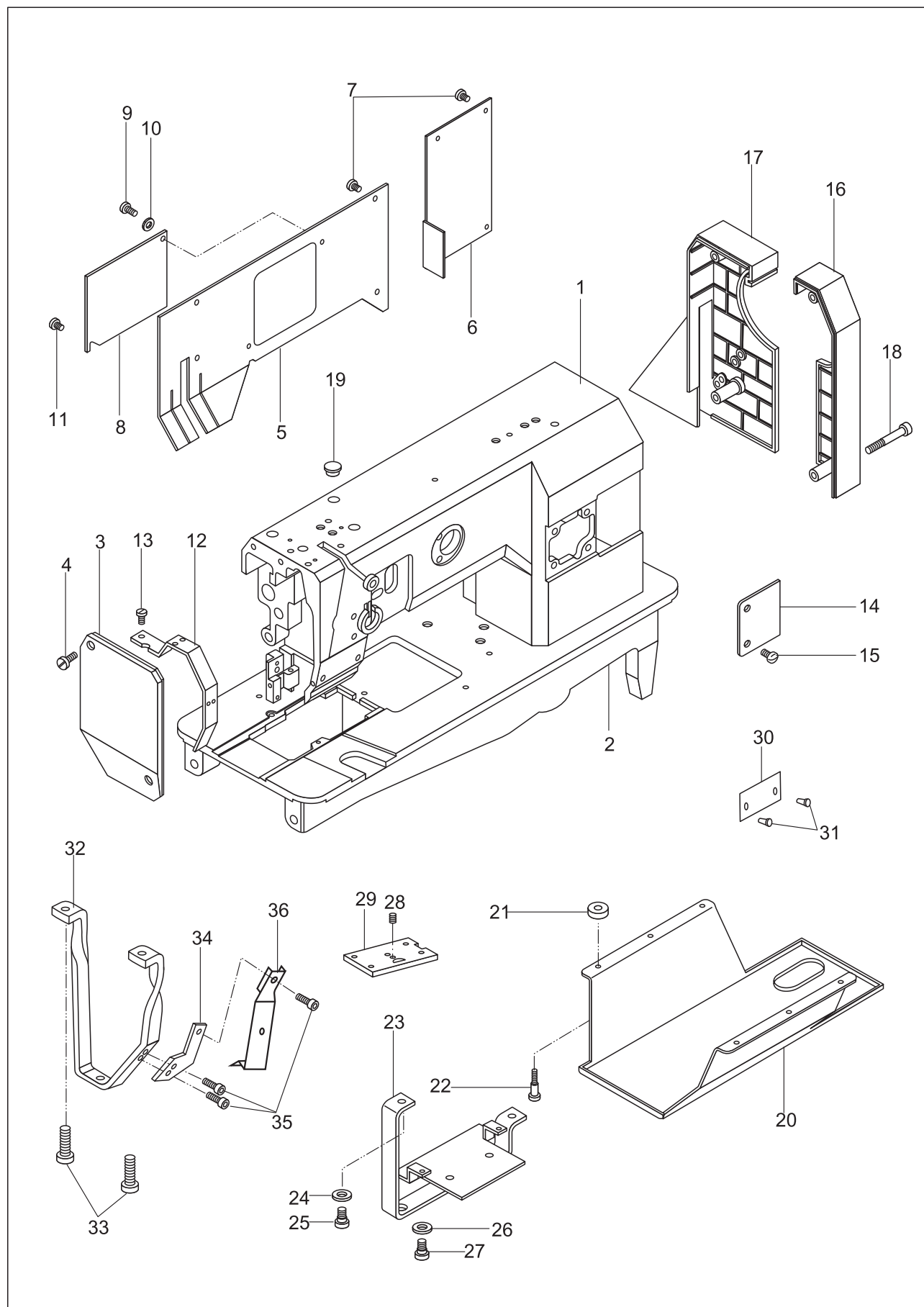
### 28. Safety mechanism for machine head (Fig. 28)

1. Take the parts support 1, plate 2 and lock spring plate 3 from the accessory box and install as the illustration, adjust the spring plate 3 to make sure when the machine head back to the table, the spring plate locks on the edge of table cutouts.
2. Press the spring plate, the machine head can back to the table cutouts.

Caution: For your safety purpose, please use this safety device.

# PARTS MANUAL

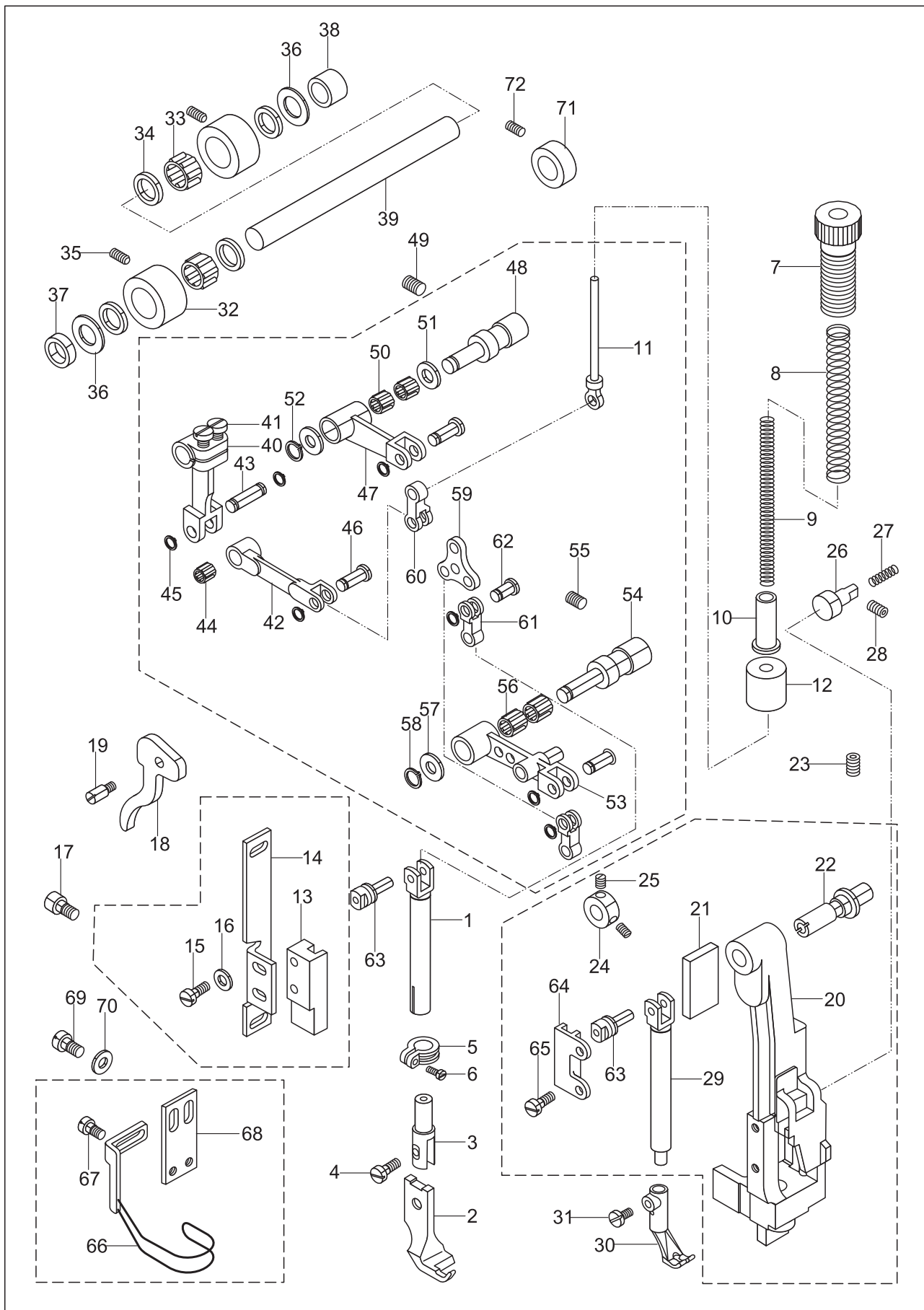
## 1. Machine casting components



## 1. Machine casting components

| No. | Parts No.  | Name                         | Qty. | Remarks                                  |
|-----|------------|------------------------------|------|------------------------------------------|
| 1   | 71WF2-001  | Arm                          | 1    |                                          |
| 2   | 177WF2-004 | Bed                          | 1    |                                          |
| 3   | 71WF2-003  | Face plate                   | 1    |                                          |
| 4   |            | Screw, face plate            | 2    |                                          |
| 5   | 71WF2-004  | Back cover (L)               | 1    |                                          |
| 6   | 71WF2-005  | Back cover (R )              | 1    |                                          |
| 7   |            | Screw                        | 8    |                                          |
| 8   | 71WF2-006  | Cover (small)                | 1    |                                          |
| 9   | 71WF2-007  | Screw (1)                    | 1    |                                          |
| 10  |            | Spring washer                | 1    |                                          |
| 11  |            | Screw (2)                    | 1    |                                          |
| 12  | 71WF2-008  | Thread take-up lever guard   | 1    |                                          |
| 13  |            | Screw                        | 1    | GB65-M5×16                               |
| 14  | 177WF2-014 | Front cover                  | 1    |                                          |
| 15  |            | Screw                        | 2    |                                          |
| 16  | 71WF5-005  | Safety guard (1)             | 1    | GB67-M5×8                                |
| 17  | 71WF5-006  | Safety guard (2)             | 1    |                                          |
| 18  |            | Set screw                    | 4    |                                          |
| 19  | 71WF2-025  | Plug                         | 2    | GB1972-80                                |
| 20  | 71WF5-007  | Oil pan                      | 1    | GB67-M4×6                                |
| 21  | 71WF5-008  | Washer                       | 6    |                                          |
| 22  |            | Screw                        | 6    | GB67-M5×8                                |
| 23  | 71WF2-010  | Oil box set bracket complete | 1    |                                          |
| 24  |            | Washer                       | 2    | GB67-M5×8                                |
| 25  |            | Screw                        | 2    |                                          |
| 26  |            | Washer                       | 2    |                                          |
| 27  |            | Screw                        | 2    | GB70-85 M5×35                            |
| 28  |            | Screw                        | 1    |                                          |
| 29  | 71WF2-036  | Slide plate                  | 1    |                                          |
| 30  | 7WF4-034   | Model label                  | 1    |                                          |
| 31  |            | Rivet                        | 2    | GB845 ST2. 9×19-C-Z                      |
| 32  | 177WF2-008 | Support bracket              | 1    |                                          |
| 33  |            | Screw                        | 2    | GB861. 1-87 6                            |
| 34  | 177WF2-009 | Plate                        | 1    | GB70-85 M6×12                            |
| 35  |            | Screw                        | 3    | GB96-85 4                                |
| 36  | 274WF2-023 | Lock spring plate            | 1    | GB65-M4×8<br>GB/T 73 M5×3<br><br>GB827 2 |

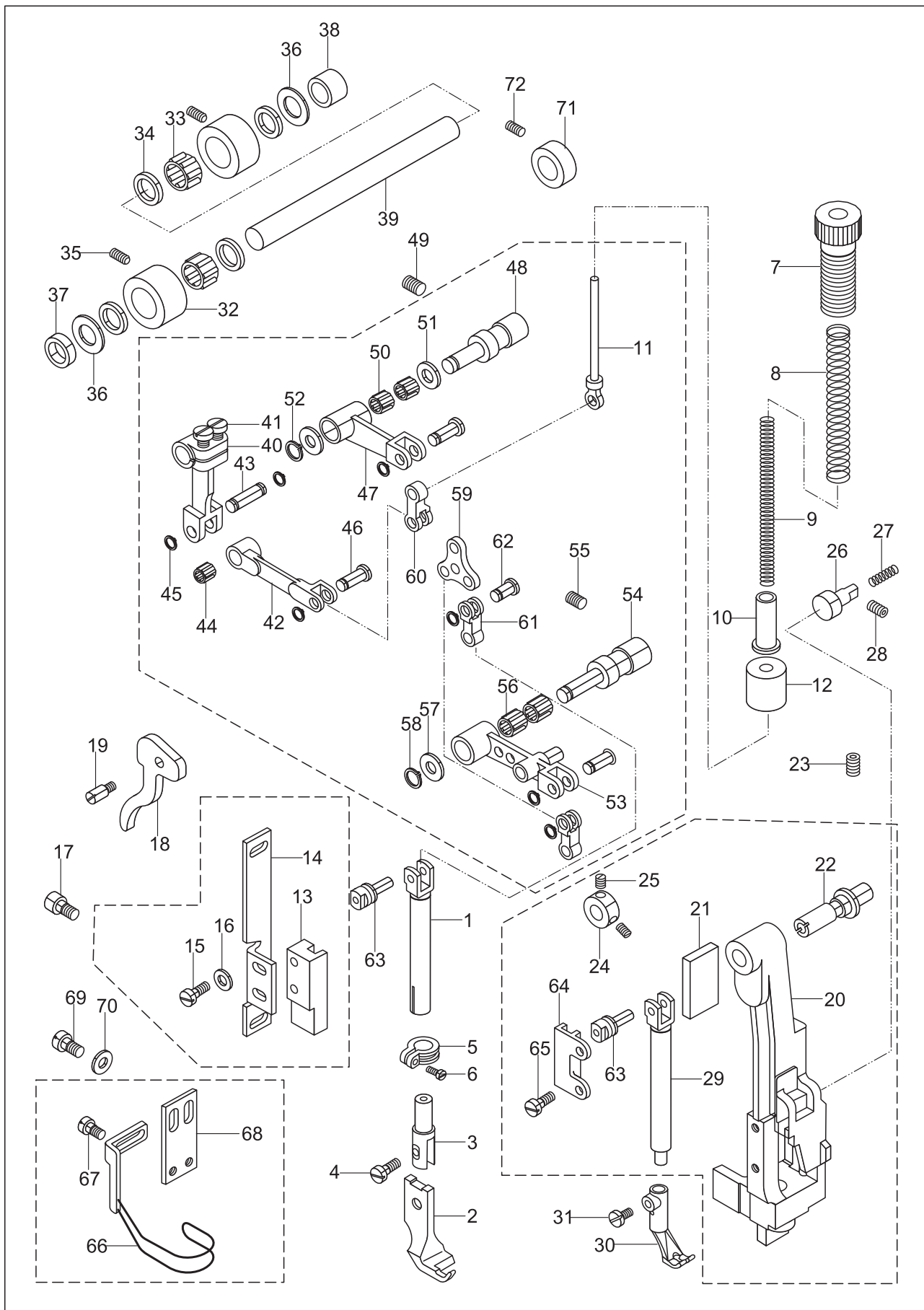
## 2. Needle and presser foot components



## 2. Needle and presser foot components

| No. | Parts No.  | Name                     | Qty. | Remarks                                                                    |
|-----|------------|--------------------------|------|----------------------------------------------------------------------------|
| 1   | 71WF4-001  | Presser foot bar         | 1    | M15×1                                                                      |
| 2   | 71WF4-002  | Presser foot             | 1    |                                                                            |
| 3   | 71WF4-003  | Presser foot connector   | 1    |                                                                            |
| 4   | 71WF4-004  | Screw                    | 1    |                                                                            |
| 5   | 71WF4-005  | Collar                   | 1    |                                                                            |
| 6   | 19WF1-013B | Screw                    | 1    |                                                                            |
| 7   | 71WF4-006  | Screw                    | 1    |                                                                            |
| 8   | 71WF4-007  | Spring (big)             | 1    |                                                                            |
| 9   | 71WF4-008  | Spring (small)           | 1    |                                                                            |
| 10  | 71WF4-009  | Spring bushing           | 1    |                                                                            |
| 11  | 71WF4-010  | Guide bar                | 1    |                                                                            |
| 12  | 71WF4-011  | Oil felt                 | 1    |                                                                            |
| 13  | 71WF4-012  | Slide guide              | 1    |                                                                            |
| 14  | 71WF4-013  | Set plate                | 1    |                                                                            |
| 15  |            | Screw                    | 2    | GB65-M4×10<br>GB97. 1-4<br>GB70-M5×10                                      |
| 16  |            | Washer                   | 2    |                                                                            |
| 17  |            | Screw                    | 2    |                                                                            |
| 18  | 71WF4-014  | Presser foot lifting bar | 1    |                                                                            |
| 19  | 71WF4-015  | Lifting bar shaft        | 1    |                                                                            |
| 20  | 71WF3-003  | Needle bar rocking frame | 1    |                                                                            |
| 21  | 71WF3-004  | Oil felt                 | 1    |                                                                            |
| 22  | 71WF3-005  | Hinge pin                | 1    |                                                                            |
| 23  |            | Screw                    | 1    |                                                                            |
| 24  | 71WF3-006  | Collar                   | 1    |                                                                            |
| 25  | 13WF1-029  | Screw                    | 2    |                                                                            |
| 26  | 71WF3-007  | Pin                      | 1    |                                                                            |
| 27  | 71WF3-008  | Spring                   | 1    |                                                                            |
| 28  |            | Screw                    | 1    | GB77-M6×8<br>M3×3<br>GB77-M5×8<br>SM17/64"×28<br>φ10× φ13×9.7<br>GB77-M6×5 |
| 29  | 71WF3-015  | Walking foot bar         | 1    |                                                                            |
| 30  | 71WF3-016  | Walking foot             | 1    |                                                                            |
| 31  | 71WF3-017  | Screw                    | 1    |                                                                            |
| 32  | 71WF3-018  | Upper feed bushing       | 2    |                                                                            |
| 33  |            | Bearing                  | 2    |                                                                            |
| 34  | 71WF3-019  | Stop ring                | 4    |                                                                            |
| 35  |            | Screw                    | 2    |                                                                            |
| 36  | 71WF3-020  | Washer                   | 2    |                                                                            |
| 37  | 71WF3-021  | Washer (front)           | 1    |                                                                            |
| 38  | 71WF3-022  | Washer (rear)            | 1    |                                                                            |
| 39  | 71WF3-023  | Upper feed shaft         | 1    |                                                                            |
| 40  | 71WF3-024  | Upper feed crank (1)     | 1    |                                                                            |

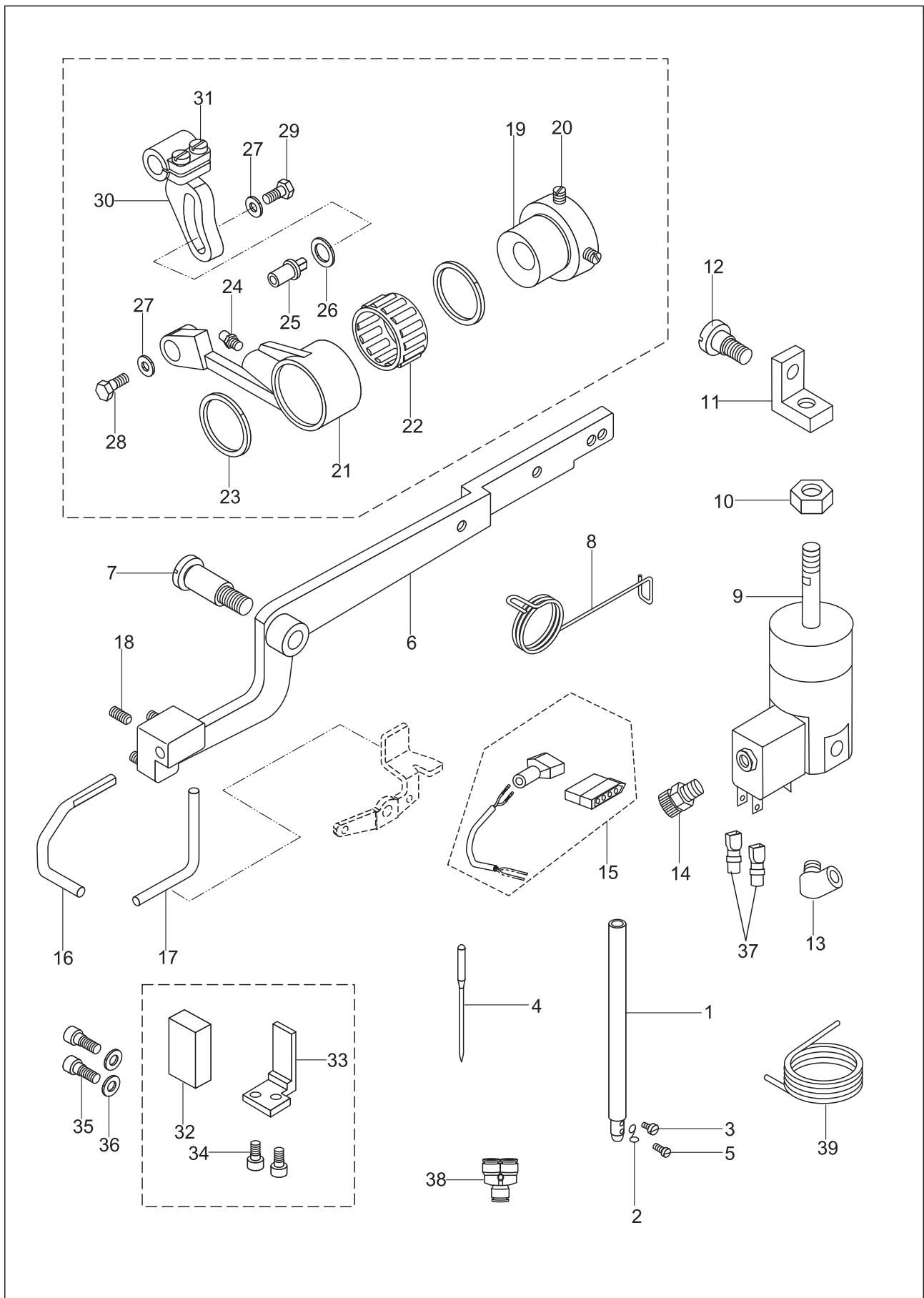
## 2. Needle and presser foot components



## 2. Needle and presser foot components

| No. | Parts No.  | Name                      | Qty. | Remarks    |
|-----|------------|---------------------------|------|------------|
| 41  |            | Screw                     | 2    |            |
| 42  | 71WF3-025  | Presser foot lifting link | 1    |            |
| 43  | 71WF3-026  | Pin                       | 1    |            |
| 44  |            | Bearing                   | 1    |            |
| 45  |            | Spring                    | 6    |            |
| 46  | 71WF3-027  | Pin (long)                | 3    |            |
| 47  | 71WF3-028  | Upper feed crank (II)     | 1    |            |
| 48  | 71WF3-029  | Pin shaft                 | 1    | GB65-M5×12 |
| 49  |            | Screw                     | 1    |            |
| 50  |            | Bearing                   | 2    |            |
| 51  | 71WF3-030  | Washer                    | 2    | Φ5×Φ8×7.7  |
| 52  |            | Spring                    | 1    | GB894. 1-5 |
| 53  | 71WF3-031  | Upper feed crank (III)    | 1    |            |
| 54  | 71WF3-032  | Pin shaft                 | 1    |            |
| 55  |            | Screw                     | 1    |            |
| 56  |            | Bearing                   | 2    | GB77-M6×8  |
| 57  | 71WF3-033  | Washer                    | 1    | Φ6×Φ9×7.7  |
| 58  |            | Spring                    | 1    |            |
| 59  | 71WF3-034  | Movable plate             | 1    | GB894. 1-6 |
| 60  | 71WF3-035  | Link                      | 1    |            |
| 61  | 71WF3-036  | Presser foot link         | 2    |            |
| 62  | 71WF3-037  | Pin (short)               | 1    | GB77-M6×8  |
| 63  | 71WF3-038  | Slide block               | 1    | Φ7×Φ10×7.5 |
| 64  | 71WF3-039  | Slide guide               | 1    |            |
| 65  |            | Screw                     | 2    | GB894. 1-7 |
| 66  | 71WF2-022  | Finger guard              | 1    |            |
| 67  | 71WF2-023  | Screw                     | 2    |            |
| 68  | 71WF2-024  | Finger guard set plate    | 1    |            |
| 69  |            | Screw                     | 2    |            |
| 70  |            | Washer                    | 2    |            |
| 71  | 233WF4-007 | Collar                    | 2    |            |
| 72  | 22T3-002B2 | Screw                     | 2    | GB65-M4×8  |
|     |            |                           |      | GB65-M4×8  |
|     |            |                           |      | GB65-M5×8  |
|     |            |                           |      | GB97. 1-5  |

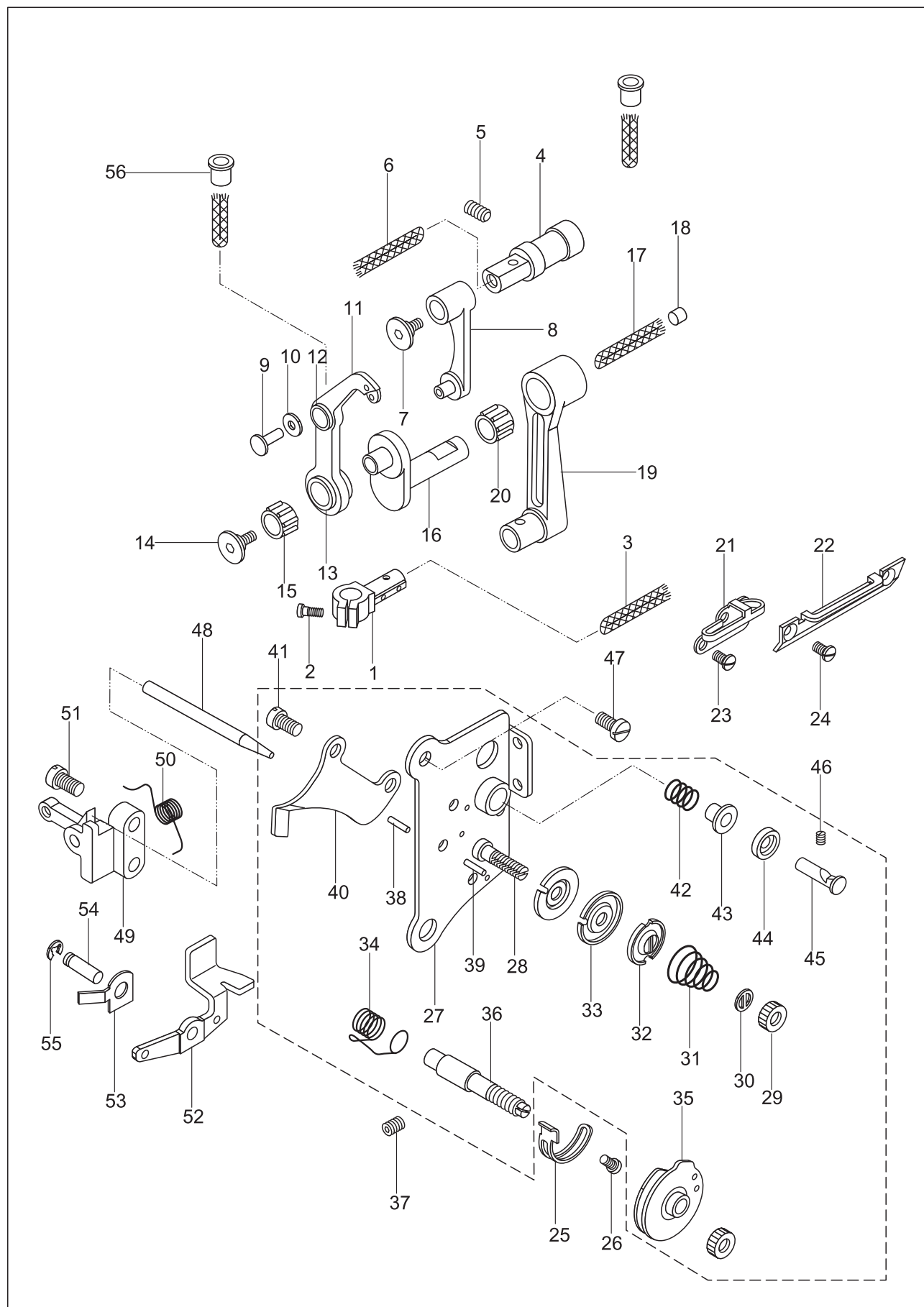
### 3. Presser foot lifting components



### 3. Presser foot lifting components

| No. | Parts No.  | Name                         | Qty. | Remarks       |
|-----|------------|------------------------------|------|---------------|
| 1   | 71WF1-001  | Needle bar                   | 1    |               |
| 2   | 71WF1-002  | Needle bar thread guide      | 1    |               |
| 3   | 13WF1-015  | Screw                        | 1    |               |
| 4   |            | Needle                       | 1    |               |
| 5   | 71WF1-003  | Needle set screw             | 1    |               |
| 6   | 71WF4-016  | Knee lifter lever            | 1    |               |
| 7   | 71WF4-017  | Screw                        | 1    |               |
| 8   | 71WF4-018  | Spring                       | 1    |               |
| 9   | 177WF8-001 | Knee lifer cylinder          | 1    |               |
| 10  | 93WF8-034  | Nut                          | 1    | M3×5          |
| 11  | 177WF8-002 | Joint                        | 1    | DP×35 LR 23"  |
| 12  | 177WF8-003 | Screw                        | 1    | M3×5          |
| 13  | 177WF5-007 | Joint                        | 1    |               |
| 14  | 93WF9-008  | Silencer                     | 1    |               |
| 15  | 177WF8-004 | Wire assy.                   | 1    |               |
| 16  | 71WF4-039  | Presser foot lifter bent bar | 1    |               |
| 17  | 71WF4-040  | Release bent bar             | 1    | GB/T6172.1 M8 |
| 18  |            | Screw                        | 3    |               |
| 19  | 71WF3-040  | Presser foot lift cam        | 1    |               |
| 20  | 13WF1-018  | Screw                        | 2    |               |
| 21  | 71WF3-041  | Link                         | 1    |               |
| 22  |            | Bearing                      | 1    |               |
| 23  | 71WF3-042  | Stop ring                    | 2    |               |
| 24  |            | Oil cup                      | 1    |               |
| 25  | 71WF3-043  | Pin                          | 1    | GB79-M5×5     |
| 26  | 71WF3-044  | Washer                       | 1    |               |
| 27  | 71WF3-045  | Washer                       | 2    | M6×0.75       |
| 28  |            | Screw                        | 1    |               |
| 29  |            | Screw                        | 1    | φ22× φ26×12.6 |
| 30  | 71WF3-046  | Adjusting crank              | 1    |               |
| 31  |            | Screw                        | 2    | GB1152-89 M6  |
| 32  | 71WF3-083  | Positioning block            | 1    |               |
| 33  | 71WF3-084  | Set bracket                  | 1    |               |
| 34  |            | Screw                        | 2    |               |
| 35  |            | Screw                        | 2    | GB5781-M5×8   |
| 36  |            | Washer                       | 2    | GB5781-M5×10  |
| 37  | 80WF8-005  | Cover                        | 2    |               |
| 38  | 177WF8-006 | Joint                        | 1    | GB65-M5×12    |
| 39  |            | Air pipe                     | 1    |               |

#### 4. Thread take-up and thread tension components

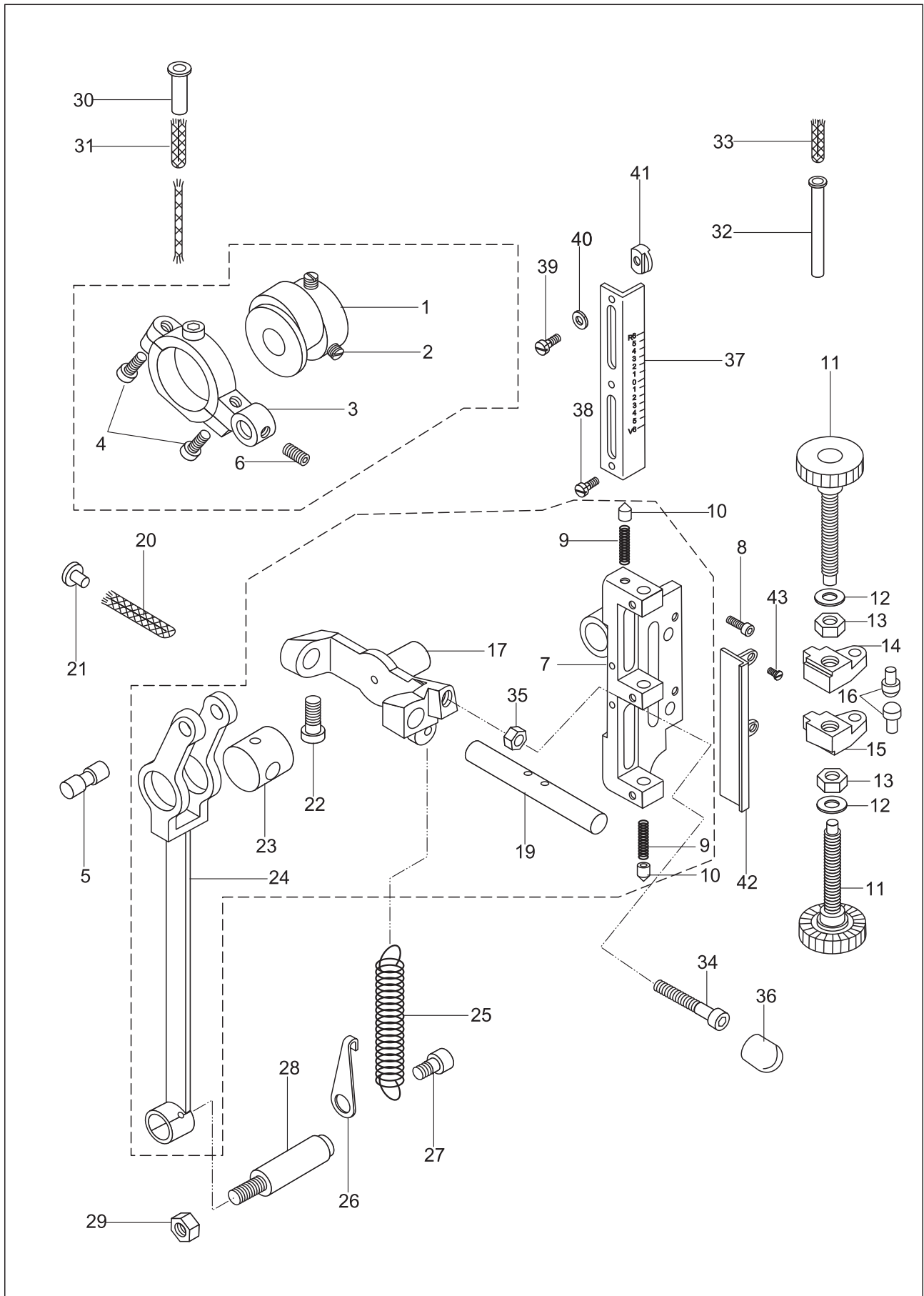


#### 4. Thread take-up and thread tension components

| No. | Parts No.  | Name                         | Qty. | Remarks      |
|-----|------------|------------------------------|------|--------------|
| 1   | 71WF1-004  | Needle bar connector         | 1    |              |
| 2   | 71WF1-005  | Screw                        | 1    |              |
| 3   |            | Oil wick                     | 1    |              |
| 4   | 71WF1-006  | Pin shaft                    | 1    |              |
| 5   |            | Screw                        | 1    |              |
| 6   |            | Oil wick                     | 1    |              |
| 7   | 71WF1-007  | Screw                        | 1    |              |
| 8   | 71WF1-008A | Crank                        | 1    |              |
| 9   | 71WF1-008B | Stud                         | 1    | M4×10        |
| 10  | 71WF1-008C | Washer                       | 1    |              |
| 11  | 71WF1-008D | Thread take-up lever         | 1    |              |
| 12  | 71WF1-008E | Link bushing                 | 1    | GB77-M6×8    |
| 13  | 71WF1-008F | Bearing bushing              | 1    |              |
| 14  | 71WF1-007  | Screw                        | 1    |              |
| 15  |            | Bearing                      | 1    |              |
| 16  | 71WF1-009  | Hinge shaft                  | 1    |              |
| 17  |            | Oil wick                     | 1    |              |
| 18  | 71WF1-010  | Plug                         | 1    |              |
| 19  | 71WF1-011  | Needle bar link              | 1    |              |
| 20  |            | Bearing                      | 1    |              |
| 21  | 71WF2-011  | Thread guide(middle)         | 1    |              |
| 22  | 71WF2-012  | Thread guide (lower)         | 1    | φ7× φ10×7.5  |
| 23  | 71WF2-013  | Screw                        | 1    |              |
| 24  |            | Screw                        | 1    |              |
| 25  | 71WF2-016  | Stop plate                   | 1    |              |
| 26  |            | Screw                        | 1    |              |
| 27  | 71WF2-021A | Set plate                    | 1    | φ9× φ12×12.7 |
| 28  | 71WF2-021B | Bolt                         | 1    |              |
| 29  | 71WF2-021C | Nut                          | 2    |              |
| 30  | 71WF2-021D | Washer                       | 1    | M5×7         |
| 31  | 71WF2-021E | Spring                       | 1    | GB68-M4×8    |
| 32  | 71WF2-021F | Tension release disc         | 1    |              |
| 33  | 71WF2-021G | Thread tension disc          | 2    | GB65-M4×6    |
| 34  | 71WF2-021H | Thread take-up spring        | 1    |              |
| 35  | 71WF2-021I | Thread control plate assy.   | 1    |              |
| 36  | 71WF2-021J | Bolt                         | 1    |              |
| 37  |            | Screw                        | 1    |              |
| 38  | 71WF2-021K | Thread guide pin             | 2    |              |
| 39  | 71WF2-021L | Thread release pin           | 1    |              |
| 40  | 71WF2-021M | Thread release plate         | 1    |              |
| 41  | 71WF2-021N | Screw                        | 2    |              |
| 42  | 71WF2-021O | Spring                       | 1    |              |
| 43  | 71WF2-021P | Thread tension cap           | 1    |              |
| 44  | 71WF2-021Q | Thread tension disc          | 1    | GB77-M5×8    |
| 45  | 71WF2-021R | Pin                          | 1    |              |
| 46  |            | Screw                        | 1    |              |
| 47  |            | Screw                        | 1    |              |
| 48  | 71WF2-022  | Thread release bar           | 1    | SM9/64"×40   |
| 49  | 71WF4-033  | Thread release bracket assy. | 1    |              |
| 50  | 71WF4-034  | Spring                       | 1    |              |
| 51  | 71WF4-035  | Screw                        | 2    |              |
| 52  | 71WF4-036  | Thread release lever         | 1    |              |
| 53  | 71WF4-037  | Spring plate                 | 1    | GB73-M4×8    |
| 54  | 71WF3-053  | Lever stud                   | 1    | GB67-M4×10   |
| 55  |            | Split ring                   | 1    |              |
| 56  | 71WF2-026  | Oil pipe                     | 2    |              |

M5×6

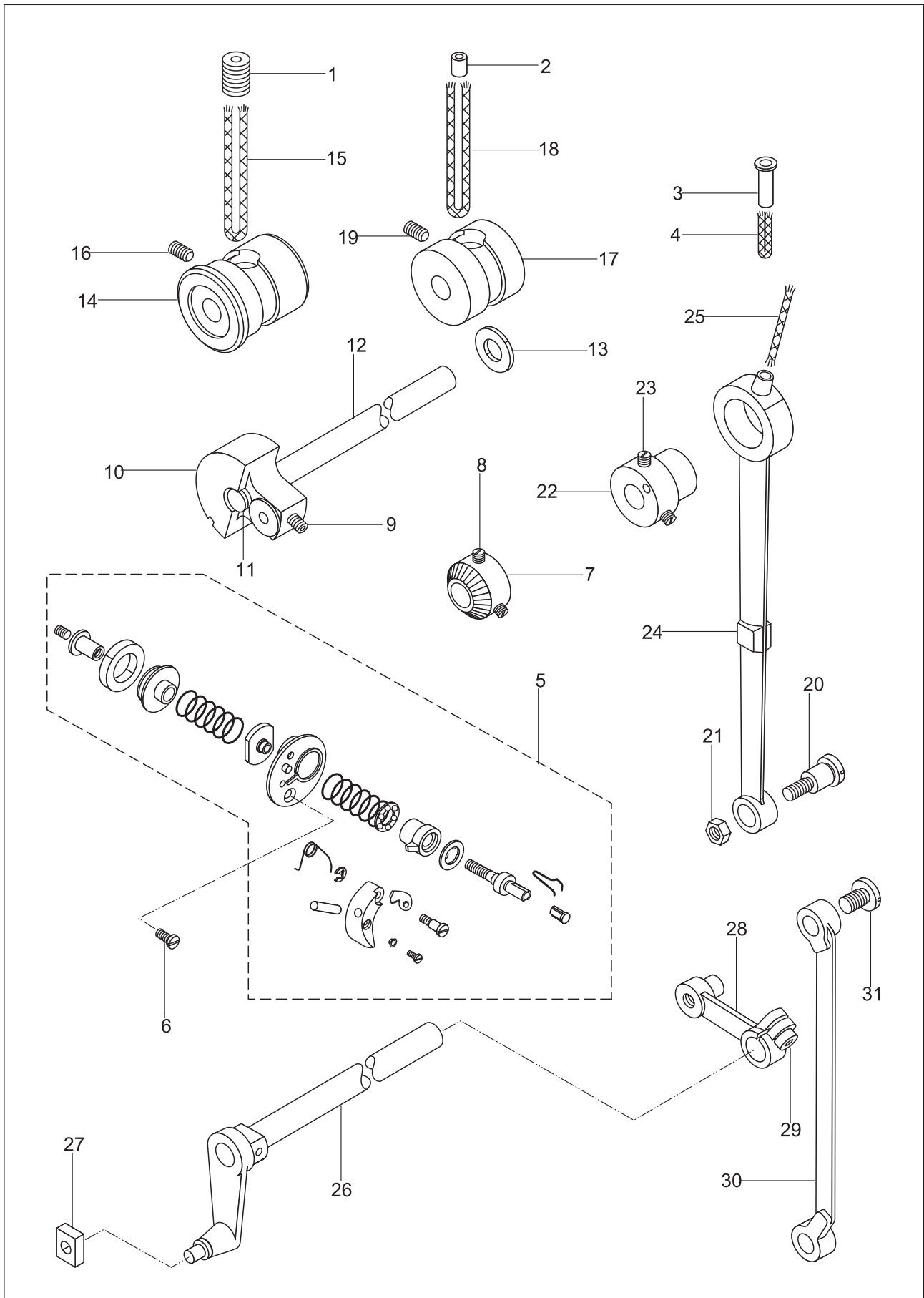
## 5. Feed adjustment components



## 5. Feed adjustment components

| No. | Parts No.  | Name                            | Qty. | Remarks        |
|-----|------------|---------------------------------|------|----------------|
| 1   | 71WF3-047  | Feed cam                        | 1    |                |
| 2   | 22T2-005B3 | Screw                           | 2    |                |
| 3   | 71WF3-048  | Feed crank                      | 1    |                |
| 4   |            | Screw                           | 2    |                |
| 5   | 71WF3-049  | Link stud                       | 1    |                |
| 6   |            | Screw                           | 1    |                |
| 7   | 177WF3-001 | bracket                         | 1    |                |
| 8   |            | Screw                           | 2    |                |
| 9   | 177WF3-009 | Spring                          | 2    | SM1/4"×40      |
| 10  | 177WF3-010 | Pin shaft                       | 2    |                |
| 11  | 177WF3-007 | Screw bar                       | 2    | GB70-M5×12     |
| 12  | 71WF3-044  | Washer                          | 2    |                |
| 13  | 93WF8-034  | Nut                             | 2    | GB77-M4×5      |
| 14  | 177WF3-006 | Crank (upper)                   | 1    |                |
| 15  | 177WF3-013 | Crank (lower)                   | 1    | GB/T70.1 M6×16 |
| 16  | 177WF3-011 | Padding                         | 2    |                |
| 17  | 177WF3-002 | Stitch length adjusting bracket | 1    |                |
| 19  | 71WF3-059  | Shaft                           | 1    |                |
| 20  |            | Oil wick                        | 1    |                |
| 21  | 71WF1-013  | Oil plug                        | 1    | GB/T 6172.1 M8 |
| 22  | 71WF3-060  | Screw                           | 1    |                |
| 23  | 71WF3-061  | Feed slide block                | 1    |                |
| 24  | 71WF3-062  | Feed link                       | 1    |                |
| 25  | 71WF3-063  | Reset spring                    | 1    |                |
| 26  | 71WF3-064  | Spring hook                     | 1    |                |
| 27  |            | Screw                           | 1    |                |
| 28  | 71WF3-013  | Pin                             | 1    |                |
| 29  | 71WF3-014  | Nut                             | 1    |                |
| 30  | 71WF2-027  | Oil pipe                        | 1    |                |
| 31  |            | Oil wick                        | 1    |                |
| 32  | 71WF2-028  | Oil pipe                        | 1    |                |
| 33  |            | Oil wick                        | 1    |                |
| 34  |            | Screw bar                       | 1    | GB70-85 M6×10  |
| 35  | 177WF3-004 | Nut                             | 1    |                |
| 36  | 177WF3-003 | Handle                          | 1    | SM17/64"×28    |
| 37  | 177WF3-005 | Stitch length label             | 1    |                |
| 38  |            | Screw                           | 3    |                |
| 39  |            | Screw                           | 2    |                |
| 40  |            | Washer                          | 2    |                |
| 41  | 177WF3-012 | Block                           | 2    | GB/T70.1 M8×70 |
| 42  | 177WF3-008 | Plate                           | 1    |                |
| 43  |            | Screw                           | 2    |                |

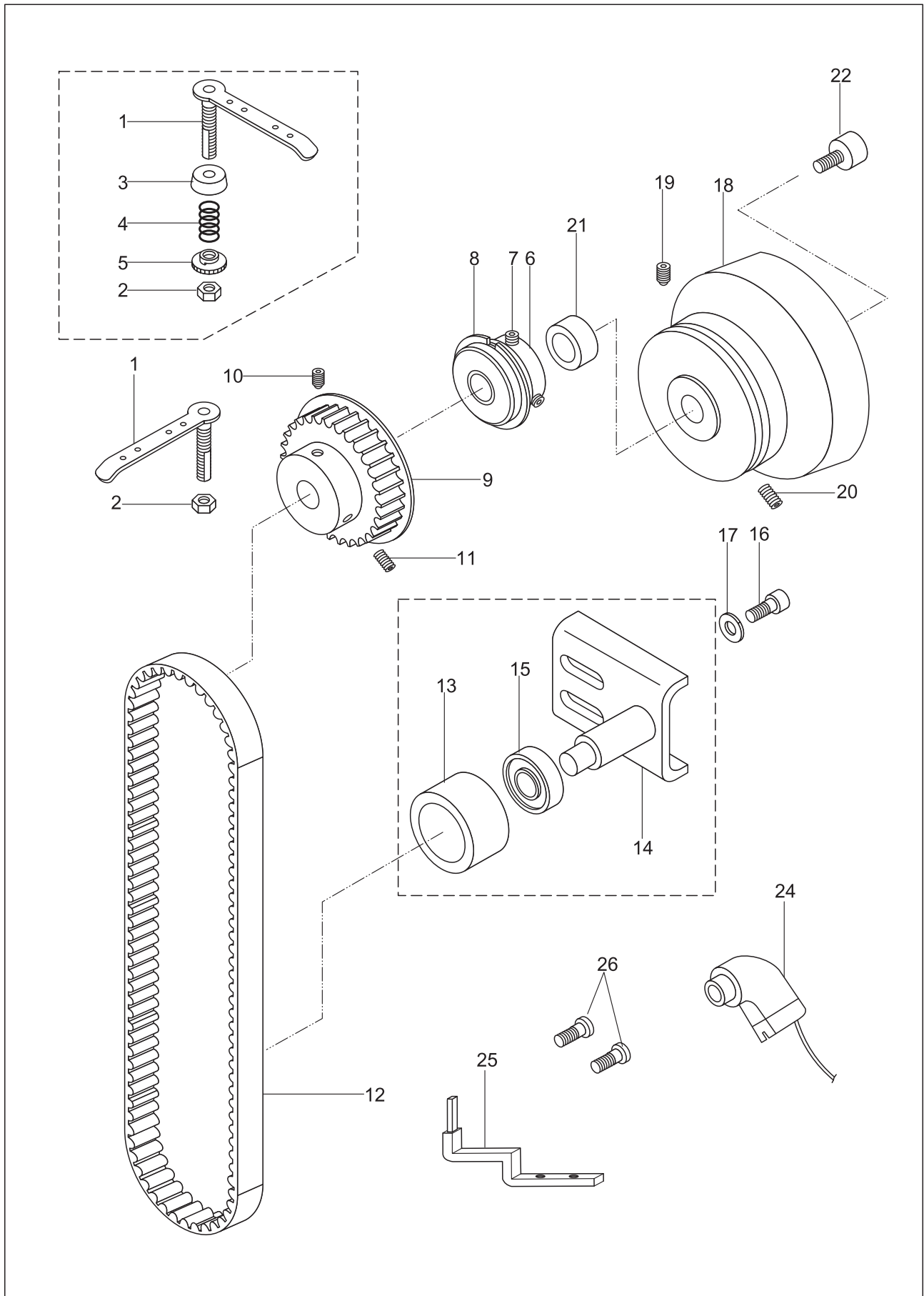
## 6. Upper shaft and rocking shaft components



## 6. Upper shaft and rocking shaft components

| No. | Parts No.  | Name                       | Qty. | Remarks     |
|-----|------------|----------------------------|------|-------------|
| 1   | 71WF2-029  | Oil plug                   | 1    |             |
| 2   | 71WF2-030  | Oil plug                   | 1    |             |
| 3   | 71WF2-027  | Oil pipe                   | 1    |             |
| 4   |            | Oil wick                   | 1    |             |
| 5   | 177WF2-005 | Bobbin thread winder assy. | 1    |             |
| 6   |            | Screw                      | 1    |             |
| 7   | 71WF2-035  | Friction wheel             | 1    |             |
| 8   | 13WF1-018  | Screw                      | 2    |             |
| 9   |            | Screw                      | 2    |             |
| 10  | 71WF1-012  | Needle bar crank           | 1    |             |
| 11  | 71WF1-013  | Oil plug                   | 1    |             |
| 12  | 71WF1-014  | Upper shaft                | 1    |             |
| 13  | 71WF1-015  | Washer                     | 1    | GB68-M4×8   |
| 14  | 71WF1-016  | Upper shaft bushing (L)    | 1    |             |
| 15  |            | Oil wick                   | 1    | M6×0.75     |
| 16  |            | Screw                      | 1    | GB77-M6×5   |
| 17  | 71WF1-017  | Upper shaft bushing (M)    | 1    |             |
| 18  |            | Oil wick                   | 1    |             |
| 19  |            | Screw                      | 1    |             |
| 20  | 71WF3-078  | Screw                      | 1    |             |
| 21  | 71WF3-079  | Nut                        | 1    |             |
| 22  | 71WF3-080  | Feed dog lift cam          | 1    |             |
| 23  | 71WF3-081  | Screw                      | 2    | GB77-M6×8   |
| 24  | 71WF3-082  | Feed dog lift link         | 1    |             |
| 25  |            | Oil wick                   | 1    |             |
| 26  | 71WF3-001  | Needle bar rocking frame   | 1    | GB77-M6×8   |
| 27  | 71WF3-002  | Slide block                | 1    |             |
| 28  | 71WF3-009  | Crank                      | 1    | SM11/64"×28 |
| 29  |            | Screw                      | 1    |             |
| 30  | 71WF3-010  | Link                       | 1    |             |
| 31  | 71WF3-011  | Screw                      | 1    |             |
|     |            |                            |      | GB70-M8×16  |

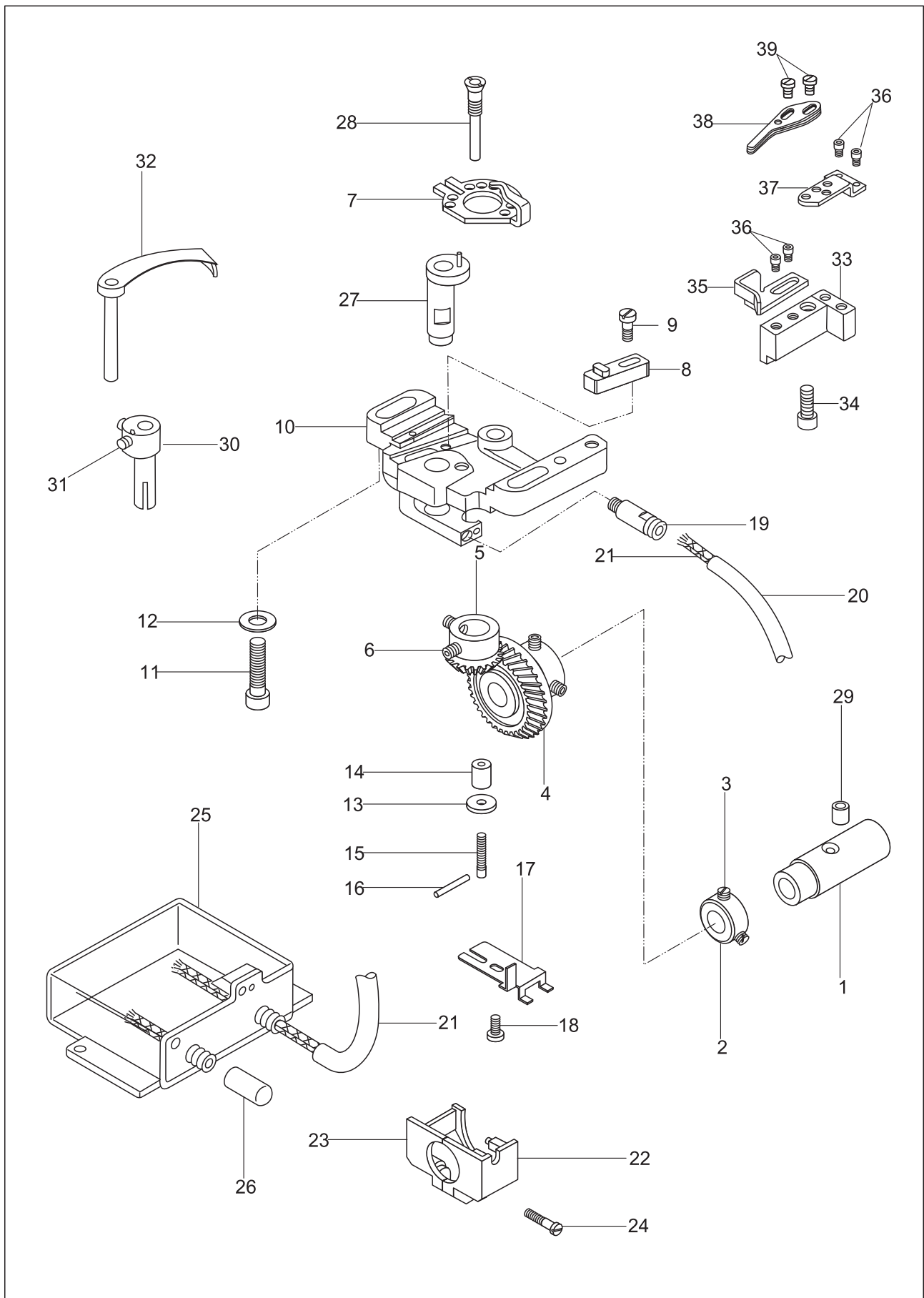
## 7. Timing belt components



## 7. Timing belt components

| No. | Parts No.  | Name                       | Qty. | Remarks           |
|-----|------------|----------------------------|------|-------------------|
| 1   | 71WF2-014  | Thread guide bar assy.     | 2    |                   |
| 2   |            | Nut                        | 2    |                   |
| 3   | 71WF2-015A | Thread tension disc        | 1    |                   |
| 4   | 71WF2-015B | Thread tension spring      | 1    |                   |
| 5   | 71WF2-015C | Nut                        | 1    |                   |
| 6   | 71WF1-018  | Collar                     | 1    |                   |
| 7   | 19WF3-005  | Screw                      | 2    |                   |
| 8   |            | Bearing                    | 1    |                   |
| 9   | 71WF1-019  | Timing pulley assy.        | 1    | GB6170-M6         |
| 10  |            | Screw                      | 1    |                   |
| 11  |            | Screw                      | 1    |                   |
| 12  |            | Timing belt                | 1    |                   |
| 13  | 71WF1-021A | Tension wheel              | 1    |                   |
| 14  | 71WF1-021B | Tension wheel bracket      | 1    | M6×0.75           |
| 15  |            | Bearing                    | 1    | 6002-2ZNR 15×32×9 |
| 16  |            | Screw                      | 2    |                   |
| 17  |            | Washer                     | 2    | GB78-M6×0.75      |
| 18  | 177WF1-001 | Hand wheel                 | 1    | GB77-M6×0.75      |
| 19  |            | Screw                      | 1    | 270H063           |
| 20  |            | Screw                      | 1    |                   |
| 21  | 71WF1-023  | Washer                     | 1    |                   |
| 22  | 100WF7-001 | Screw bar                  | 1    | 6000-2Z           |
| 24  |            | External synchronizer      | 1    | GB70-M5×12        |
| 25  | 100WF7-002 | Synchronizer fixed bracket | 1    | GB97.1-5          |
| 26  | 13WF2-040  | Screw                      | 2    |                   |
|     |            |                            |      | GB78-M6×0.75      |
|     |            |                            |      | GB77-M6×0.75      |
|     |            |                            |      | 500-29            |
|     |            |                            |      | M4×8              |

## 8. Hook saddle components



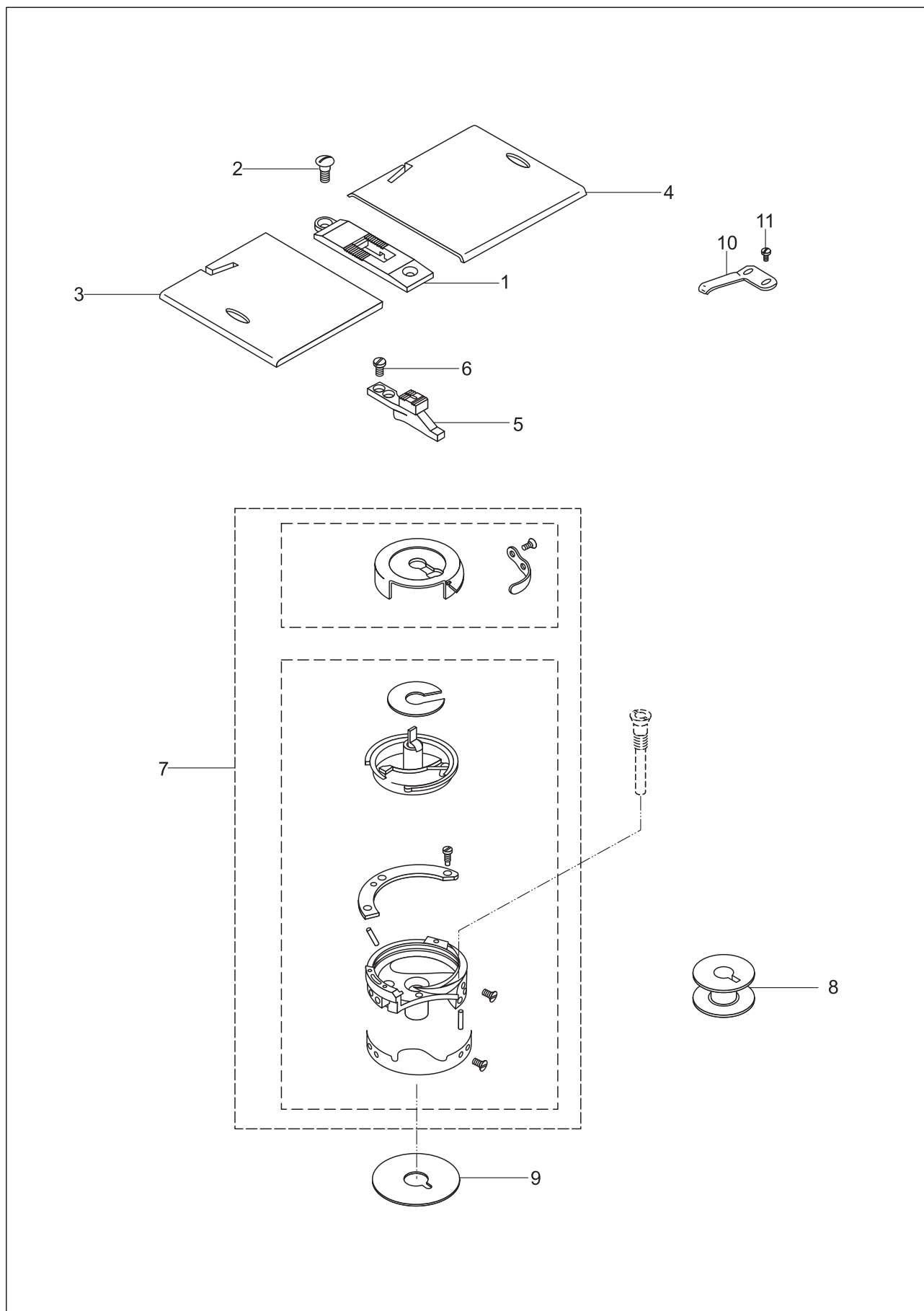
## 8. Hook saddle components

| No. | Parts No.  | Name                                | Qty. | Remarks       |
|-----|------------|-------------------------------------|------|---------------|
| 1   | 71WF1-028  | Lower shaft bushing (L)             | 1    |               |
| 2   | 71WF1-031  | Collar                              | 1    |               |
| 3   | 22WF4-005  | Screw                               | 2    |               |
| 4   | 71WF1-032  | Lower shaft gear                    | 1    |               |
| 5   | 71WF1-033  | Hook gear                           | 1    |               |
| 6   | 19WF3-005  | Screw                               | 4    |               |
| 7   | 71WF1-034  | Bobbin thread opener                | 1    |               |
| 8   | 71WF1-035  | Adjusting plate assy.               | 1    |               |
| 9   |            | Screw                               | 1    |               |
| 10  | 177WF1-002 | Hook saddle                         | 1    | M5            |
| 11  |            | Screw                               | 2    |               |
| 12  | 71WF1-037  | Washer                              | 2    |               |
| 13  | 71WF1-038  | Oil felt (1)                        | 1    | M6×0.75       |
| 14  | 71WF1-039  | Oil felt (2)                        | 1    |               |
| 15  | 71WF1-040  | Screw bar                           | 1    |               |
| 16  |            | Pin                                 | 1    | GB65-M4×8     |
| 17  | 71WF1-041  | Cover                               | 1    |               |
| 18  |            | Screw                               | 1    | GB70-85 M6×25 |
| 19  | 71WF1-042  | Connector                           | 1    |               |
| 20  | 71WF1-043  | Oil pipe                            | 1    |               |
| 21  |            | Oil wick                            | 1    |               |
| 22  | 71WF1-044  | Gear cover (1)                      | 1    |               |
| 23  | 71WF1-045  | Gear cover (2)                      | 1    | GB879-86 1×16 |
| 24  |            | Screw                               | 1    |               |
| 25  | 71WF1-047  | Oil box                             | 1    | GB65-M4×8     |
| 26  | 71WF1-049  | Oil hole cover                      | 1    |               |
| 27  | 177WF1-003 | Hook shaft                          | 1    |               |
| 28  | 71WF1-062  | Screw                               | 1    | φ3 L=400      |
| 29  | 71WF2-030  | Oil plug                            | 1    |               |
| 30  | 177WF6-021 | Movable knife shaft                 | 1    |               |
| 31  |            | Screw                               | 2    | GB65-M4×14    |
| 32  | 177WF6-020 | Movable knife                       | 1    |               |
| 33  | 177WF6-022 | Fixed knife carrier                 | 1    |               |
| 34  |            | Screw                               | 1    |               |
| 35  | 177WF6-030 | Fixed knife                         | 1    |               |
| 36  |            | Screw                               | 4    |               |
| 37  | 177WF6-028 | Thread holding spring plate carrier | 1    |               |
| 38  | 177WF6-031 | Thread holding spring plate assy.   | 1    | GB/T80 M4×5   |
| 39  |            | Screw                               | 2    |               |

GB/T70.1 M3×6

GB/T67 M2×3

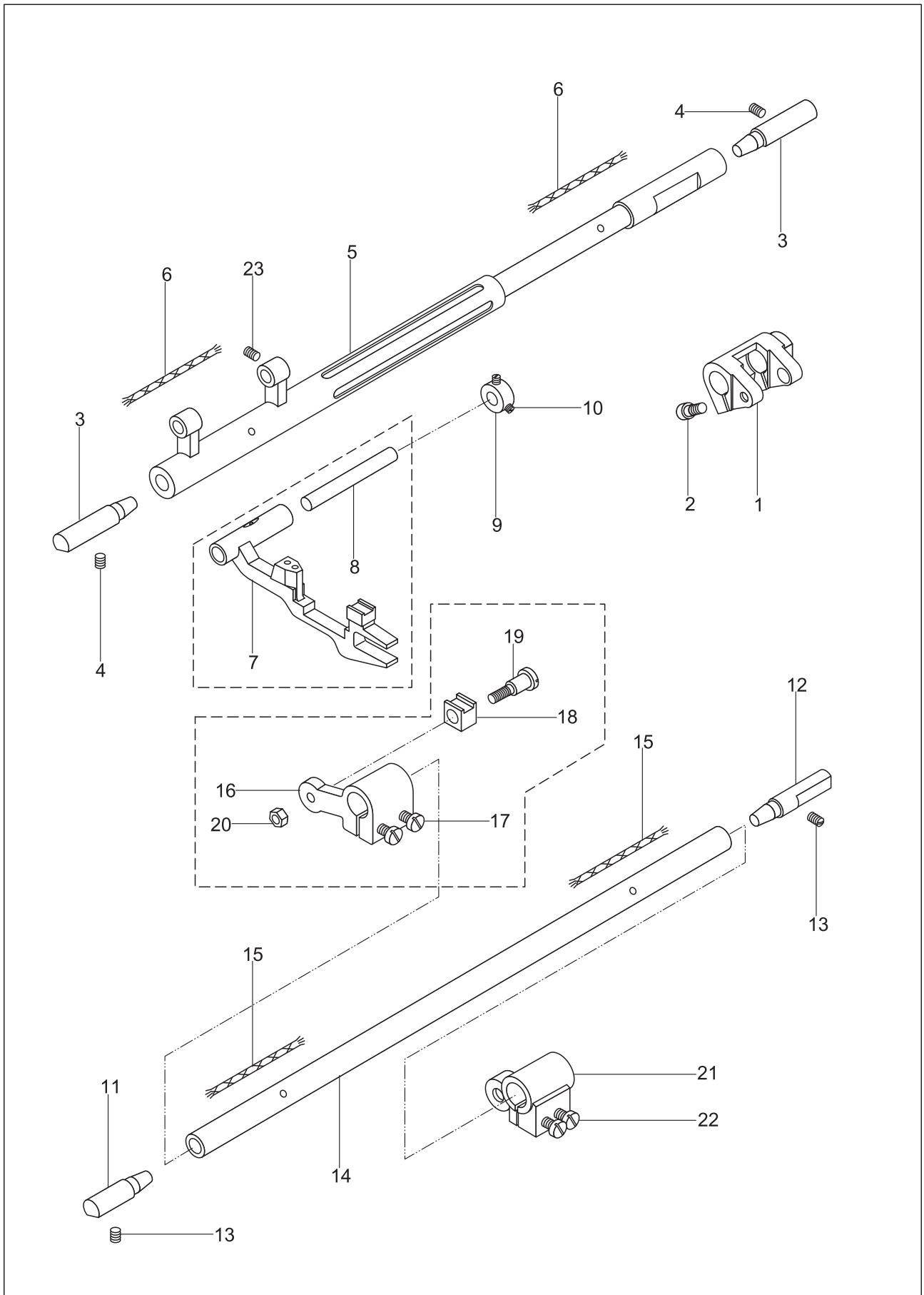
## 9. Needle plate and hook components



## 9. Needle plate and hook components

| No. | Parts No.  | Name            | Qty. | Remarks     |
|-----|------------|-----------------|------|-------------|
| 1   | 177WF2-002 | Needle plate    | 1    | SM11/64"×40 |
| 2   | 71WF2-018  | Screw           | 2    |             |
| 3   | 71WF2-019  | Slide plate (L) | 1    |             |
| 4   | 177WF2-015 | Slide plate (R) | 1    |             |
| 5   | 177WF3-014 | Feed dog        | 1    |             |
| 6   | J0. 0. 50  | Screw           | 2    |             |
| 7   | 177WF1-004 | Hook assy.      | 1    |             |
| 8   | 71WF1-046  | Bobbin          | 1    |             |
| 9   | 71WF1-060  | Washer          | 1    |             |
| 10  | 199WF2-004 | Spring retainer | 1    |             |
| 11  | 13WF2-018  | Screw           | 2    |             |
|     |            |                 |      | SM1/8"×44   |

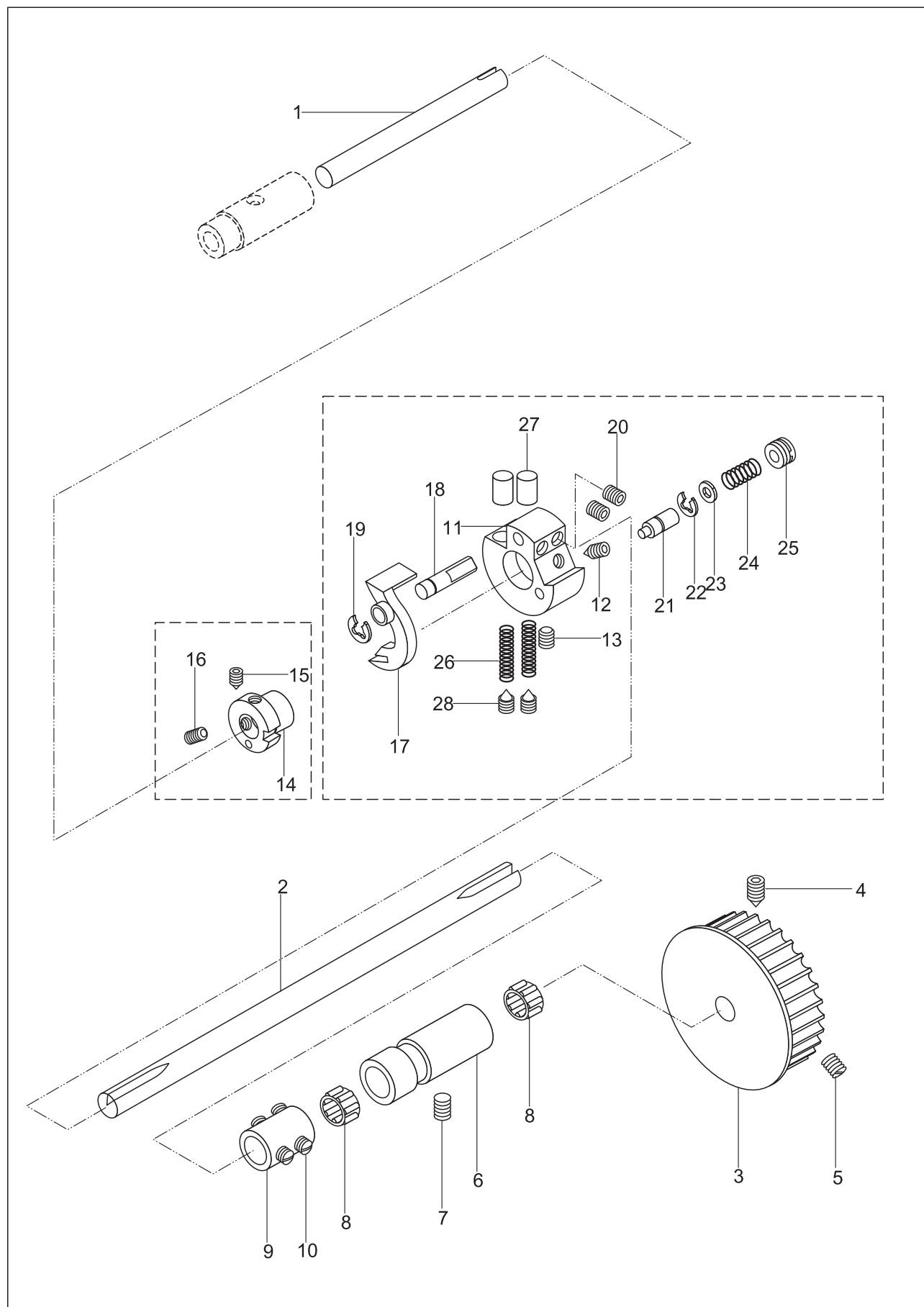
## 10. Lower feed components



## 10. Lower feed components

| No. | Parts No. | Name                   | Qty. | Remarks                                                                                                                                                      |
|-----|-----------|------------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | 71WF3-012 | Feed crank             | 1    | GB65-M5×12<br><br>GB77-M6×8<br><br>φ3<br><br>GB77-M5×4<br><br>GB77-M6×8<br><br>φ3<br><br>GB65-M5×12<br><br>SM11/64"×32<br><br>GB65-M5×10<br>GB/T77 M6×0.75×5 |
| 2   |           | Screw                  | 2    |                                                                                                                                                              |
| 3   | 71WF3-065 | Feed shaft set pin     | 2    |                                                                                                                                                              |
| 4   |           | Screw                  | 2    |                                                                                                                                                              |
| 5   | 71WF3-066 | Feed shaft             | 1    |                                                                                                                                                              |
| 6   |           | Oil wick               | 2    |                                                                                                                                                              |
| 7   | 71WF3-067 | Feed dog carrier       | 1    |                                                                                                                                                              |
| 8   | 71WF3-068 | Hinge shaft            | 1    |                                                                                                                                                              |
| 9   | 71WF3-069 | Collar                 | 1    |                                                                                                                                                              |
| 10  |           | Screw                  | 2    |                                                                                                                                                              |
| 11  | 71WF3-071 | Set pin (front)        | 1    |                                                                                                                                                              |
| 12  | 71WF3-065 | Set pin (rear)         | 1    |                                                                                                                                                              |
| 13  |           | Screw                  | 2    |                                                                                                                                                              |
| 14  | 71WF3-072 | Feed dog lifting shaft | 1    |                                                                                                                                                              |
| 15  |           | Oil wick               | 2    |                                                                                                                                                              |
| 16  | 71WF3-073 | Feed dog lifting crank | 1    |                                                                                                                                                              |
| 17  |           | Screw                  | 2    |                                                                                                                                                              |
| 18  | 71WF3-074 | Slide block            | 1    |                                                                                                                                                              |
| 19  | 71WF3-075 | Screw                  | 1    |                                                                                                                                                              |
| 20  | 71WF3-076 | Nut                    | 1    |                                                                                                                                                              |
| 21  | 71WF3-077 | Crank                  | 1    |                                                                                                                                                              |
| 22  |           | Screw                  | 2    |                                                                                                                                                              |
| 23  |           | Screw                  | 1    |                                                                                                                                                              |

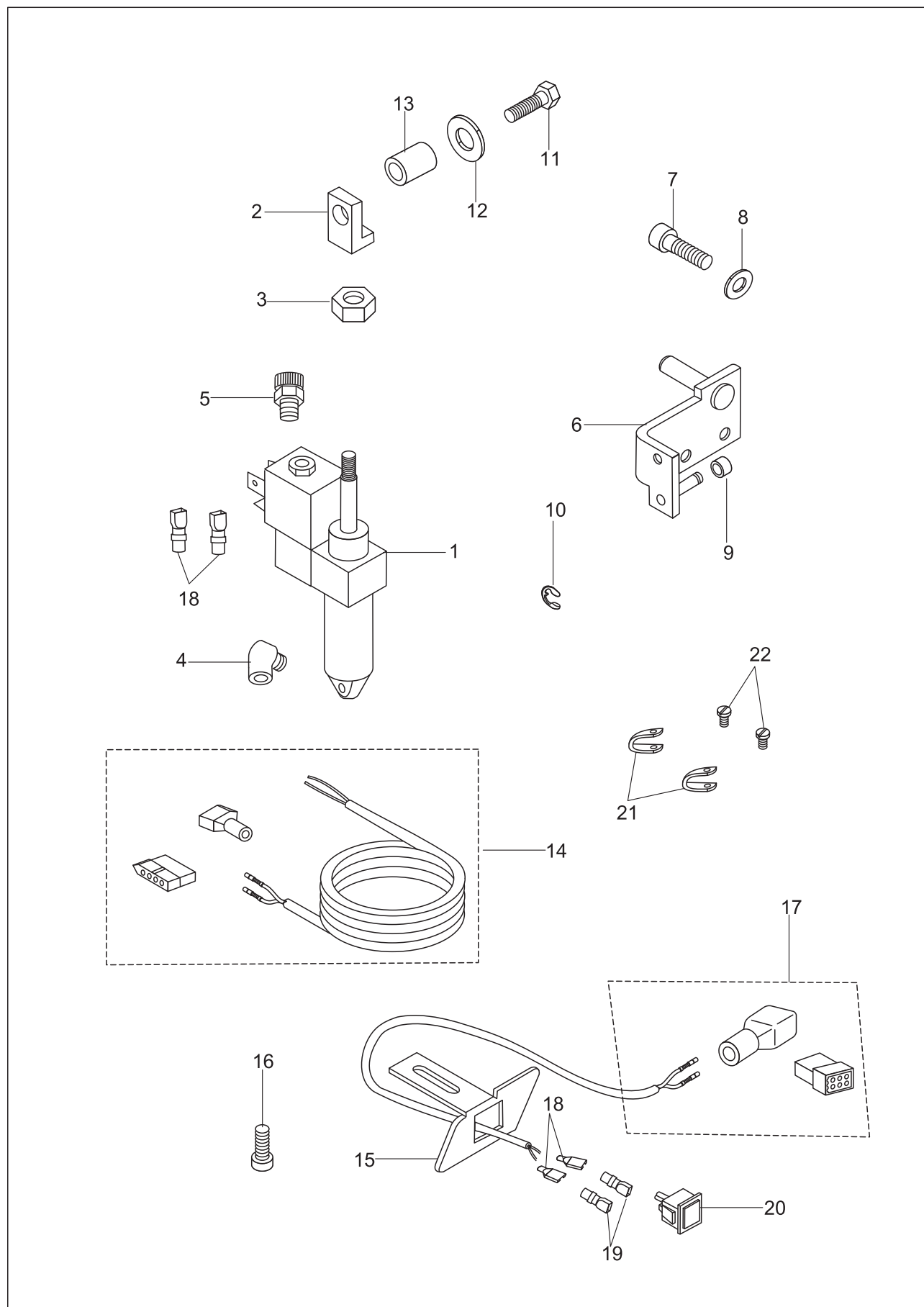
## 11. Lower shaft components



### 11. Lower shaft components

| No. | Parts No. | Name                       | Qty. | Remarks      |
|-----|-----------|----------------------------|------|--------------|
| 1   | 71WF1-025 | Lower shaft (front)        | 1    |              |
| 2   | 71WF1-026 | Lower shaft (rear)         | 1    |              |
| 3   | 71WF1-027 | Timing pulley assy.        | 1    |              |
| 4   |           | Screw                      | 1    |              |
| 5   |           | Screw                      | 1    |              |
| 6   | 71WF1-029 | Lower shaft bushing (rear) | 1    |              |
| 7   |           | Screw                      | 1    |              |
| 8   |           | Bearing                    | 2    |              |
| 9   | 71WF1-030 | Collar                     | 1    |              |
| 10  | 13WF1-027 | Screw                      | 4    |              |
| 11  | 71WF1-050 | Safety clutch body         | 1    | GB78-M6×0.75 |
| 12  |           | Screw                      | 1    | GB77-M6×0.75 |
| 13  |           | Screw                      | 1    |              |
| 14  | 71WF1-051 | Safety clutch cam          | 1    | GB77-M6×8    |
| 15  |           | Screw                      | 1    | Φ10×Φ13×9.7  |
| 16  |           | Screw                      | 1    |              |
| 17  | 71WF1-052 | Spring plate               | 1    |              |
| 18  | 71WF1-053 | Pin                        | 1    |              |
| 19  |           | Split ring                 | 1    | GB78-M6×0.75 |
| 20  |           | Screw                      | 2    | GB77-M6×0.75 |
| 21  | 71WF1-054 | Stop pin                   | 1    |              |
| 22  |           | Split ring                 | 1    | GB78-M6×0.75 |
| 23  | 71WF1-055 | Washer                     | 1    | GB77-M6×0.75 |
| 24  | 71WF1-056 | Spring                     | 1    |              |
| 25  | 71WF1-057 | Screw                      | 1    |              |
| 26  | 71WF1-058 | Spring                     | 2    | GB896-86 4   |
| 27  | 71WF1-059 | Spring bushing             | 2    | GB77-M5×6    |
| 28  |           | Screw                      | 2    | GB896-86 3   |
|     |           |                            |      | GB78-M6×0.75 |

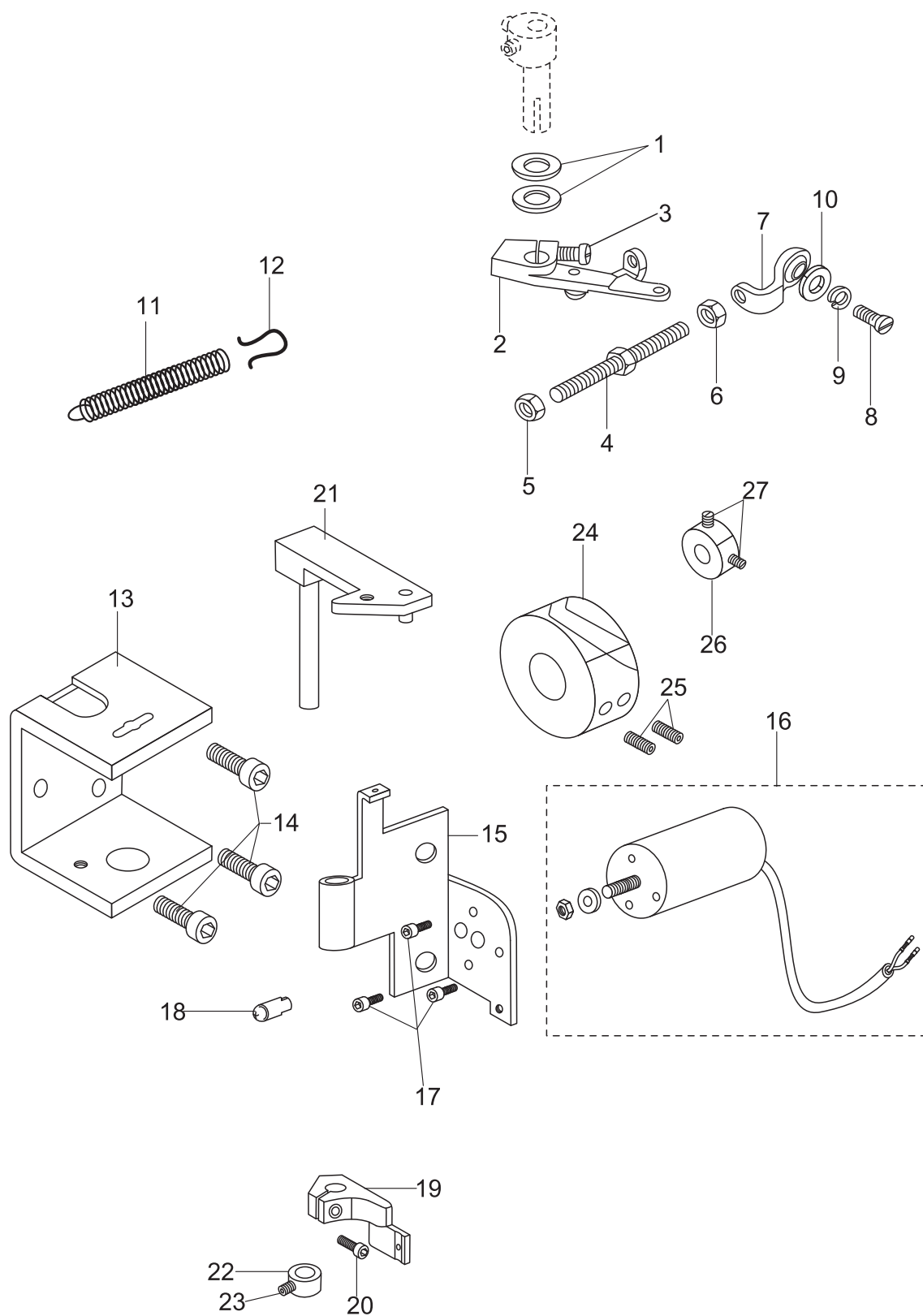
## 12. Auto-reverse stitching components



**12. Auto-reverse stitching components**

| No. | Parts No.  | Name                                 | Qty. | Remarks         |
|-----|------------|--------------------------------------|------|-----------------|
| 1   | 177WF5-001 | Cylinder                             | 1    | GB/T6172. 1 M5  |
| 2   | 177WF5-002 | Joint                                | 1    |                 |
| 3   |            | Nut                                  | 1    |                 |
| 4   | 177WF5-007 | Joint                                | 1    |                 |
| 5   | 93WF9-008  | Silencer                             | 1    |                 |
| 6   | 177WF5-003 | Bracket                              | 1    |                 |
| 7   | 72WF5-021  | Screw                                | 2    | GB/T97. 1 5     |
| 8   |            | Washer                               | 2    |                 |
| 9   | 177WF5-004 | washer                               | 1    |                 |
| 10  |            | Spring                               | 1    | GB896 4         |
| 11  |            | Screw                                | 1    | GB/T5783 M6×16  |
| 12  | 7WF5-049   | Washer                               | 1    | GB/T70. 1 M5×10 |
| 13  | 177WF5-005 | Washer                               | 1    |                 |
| 14  | 177WF5-009 | Wire assy.                           | 1    |                 |
| 15  | 177WF5-006 | Carrier for reverse stitching switch | 1    |                 |
| 16  |            | Screw                                | 2    |                 |
| 17  | 177WF5-008 | Wire assy.                           | 1    |                 |
| 18  | 80WF8-004  | Joint                                | 2    |                 |
| 19  | 80WF8-005  | Cover                                | 4    |                 |
| 20  | 119WF8-019 | Switch button                        | 1    |                 |
| 21  | 80WF2-020  | Clamp                                | 2    |                 |
| 22  | 16WF1-059  | Screw                                | 2    | SM9/64×40       |

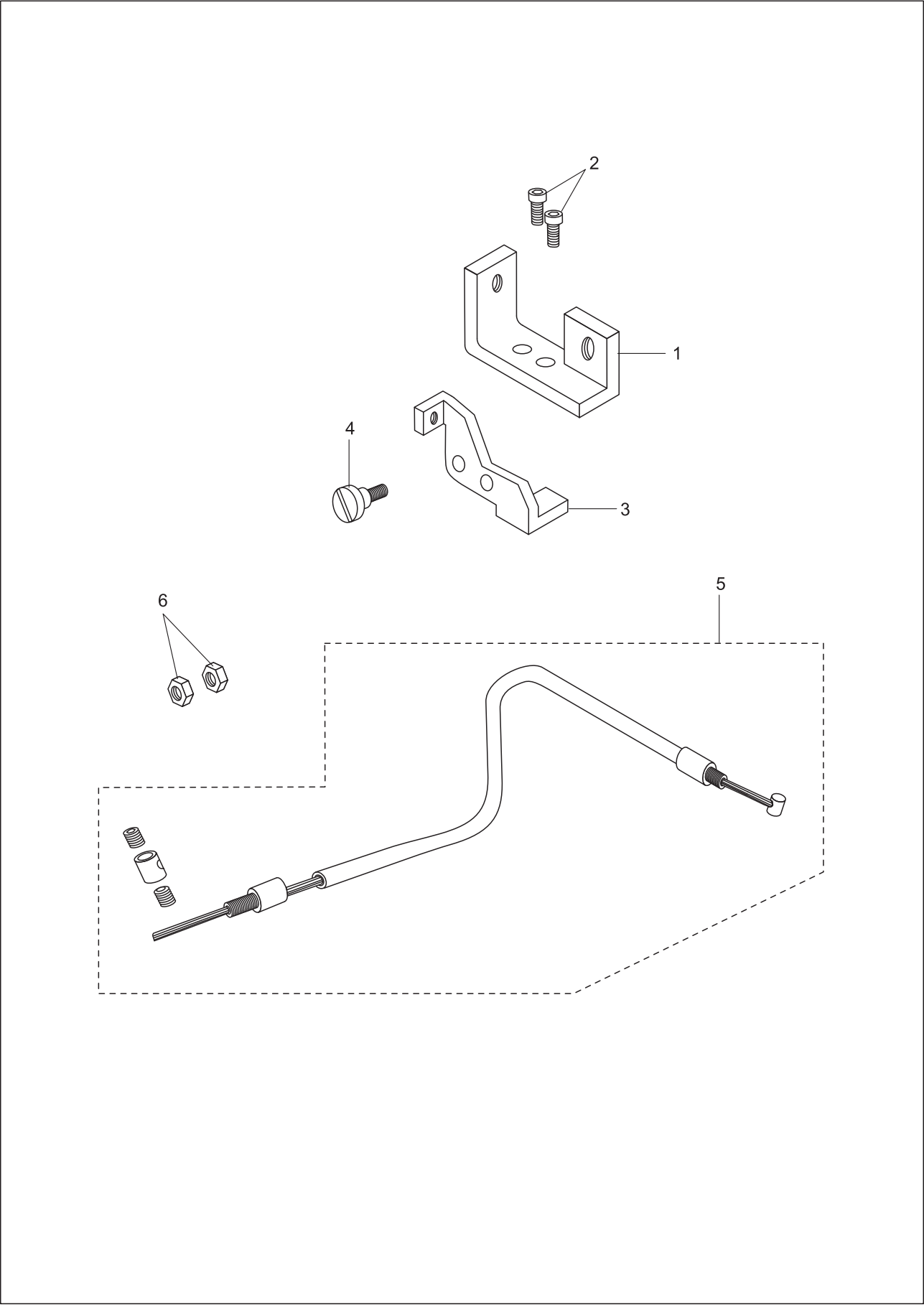
### 13. Automatic thread trimmer components



### 13. Automatic thread trimmer components

| No. | Parts No.  | Name                | Qty. | Remarks        |
|-----|------------|---------------------|------|----------------|
| 1   | 177WF6-023 | Washer              | 2    |                |
| 2   | 177WF6-024 | Driving crank assy. | 1    |                |
| 3   | 80WF6-029  | Screw               | 1    |                |
| 4   | 177WF6-025 | Screw bar           | 1    |                |
| 5   | 177WF6-032 | Nut                 | 1    | M6             |
| 6   |            | Nut                 | 1    | GB/T6170 M6    |
| 7   | 177WF6-026 | Bracket assy.       | 1    |                |
| 8   |            | Screw               | 1    | GB/T65 M6×16   |
| 9   |            | Spring washer       | 1    | GB93 6         |
| 10  | 27WF3-007  | Washer              | 1    |                |
| 11  | 177WF6-027 | Reset spring        | 1    | GB/T97.2 6     |
| 12  | 177WF6-050 | Spring hook         | 1    |                |
| 13  | 71WF4-025  | Knee lifter base    | 1    |                |
| 14  |            | Screw               | 3    | GB/T70.1 M8×16 |
| 15  | 177WF6-041 | Solenoid carrier    | 1    |                |
| 16  | 177WF6-042 | Solenoid assy.      | 1    |                |
| 17  |            | Screw               | 3    | GB/T70.1 M4×6  |
| 18  | 177WF6-043 | Block               | 1    |                |
| 19  | 177WF6-044 | Crank               | 1    |                |
| 20  | 80WF6-028  | Screw               | 1    | M5×12          |
| 21  | 177WF6-045 | Driving crank assy. | 1    |                |
| 22  | 228WF4-007 | Retaining ring      | 1    |                |
| 23  | 36WF5-025  | Screw               | 2    | SM11/64"×40    |
| 24  | 177WF6-047 | Thread trimming cam | 1    |                |
| 25  | 72WF2-014  | Screw               | 4    | M6×8           |
| 26  | 177WF6-040 | Collar              | 1    |                |
| 27  | 80WF6-036  | Screw               | 2    | M5×5           |

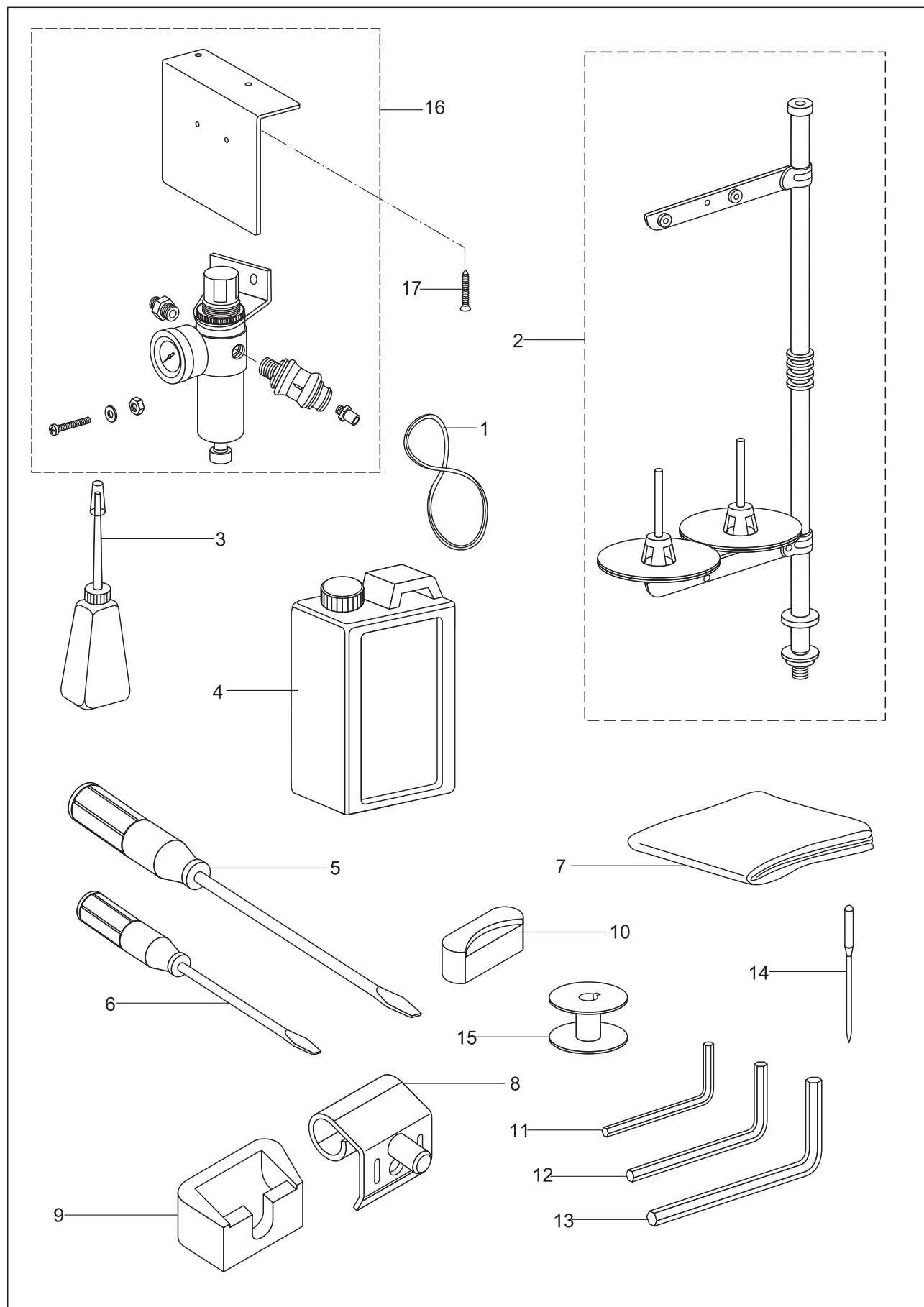
14. Tension release components



**14. Tension release components**

| No. | Parts No.  | Name                       | Qty. | Remarks                                 |
|-----|------------|----------------------------|------|-----------------------------------------|
| 1   | 177WF7-008 | Tension release crank base | 1    | M4x10<br><br><br><br><br>GB/T 6172.1 M5 |
| 2   | 89WF2-016  | Screw                      | 2    |                                         |
| 3   | 177WF7-009 | Tension release crank      | 1    |                                         |
| 4   | 177WF7-010 | Screw                      | 1    |                                         |
| 5   | 177WF7-011 | Steel cord assy.           | 1    |                                         |
| 6   |            | Nut                        | 2    |                                         |

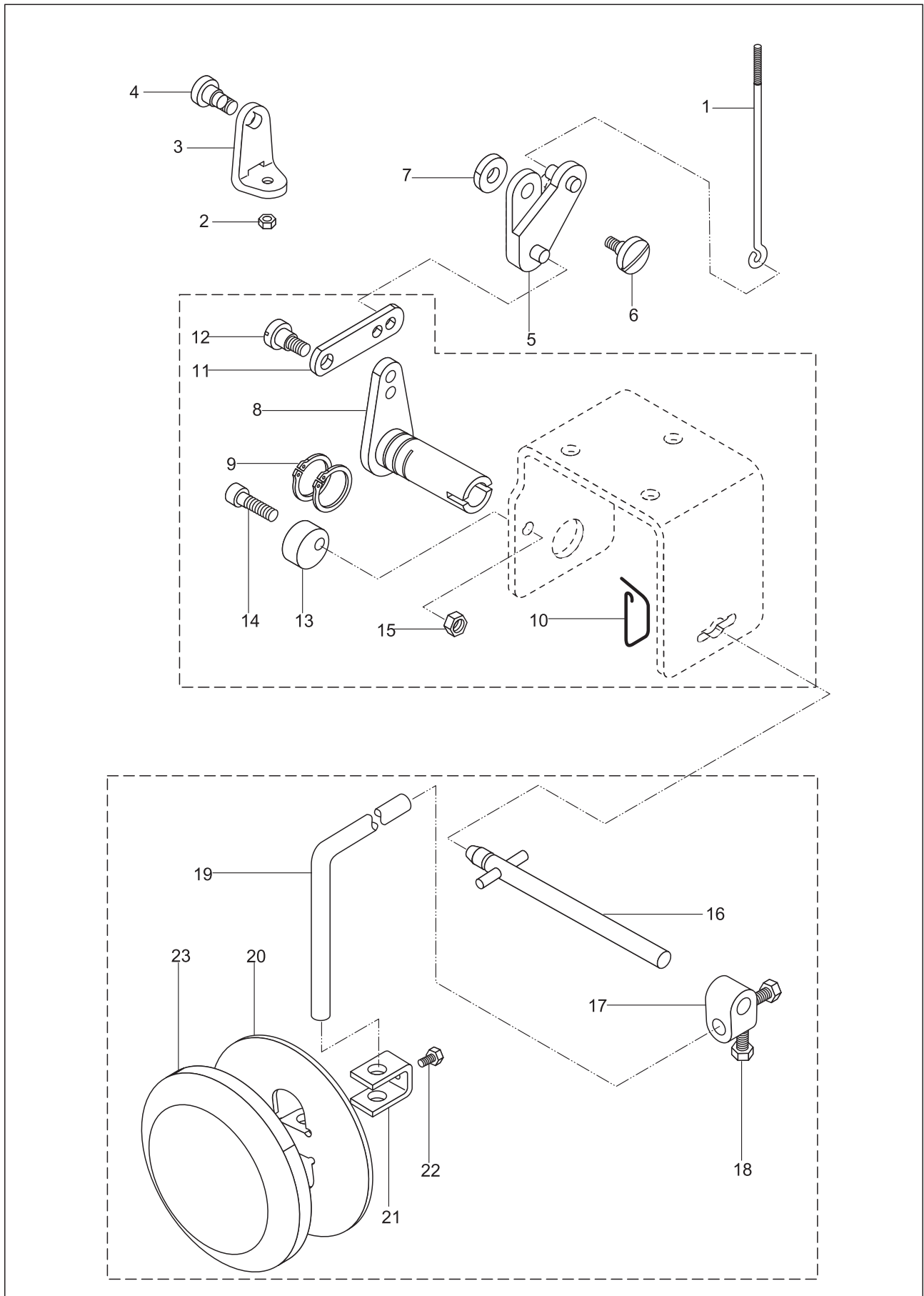
## 15. Accessories (I)



### 15. Accessories (I)

| No. | Parts No.   | Name                     | Qty. | Remarks        |
|-----|-------------|--------------------------|------|----------------|
| 1   |             | V-belt                   | 1    |                |
| 2   | 14F0-00     | Thread stand assy.       | 1    |                |
| 3   | 33TF-011    | Oil pot                  | 1    |                |
| 4   | 1F-009      | Oil tank                 | 1    |                |
| 5   | 33TF-013    | Screwdriver (M)          | 1    |                |
| 6   | 33TF-014    | Screwdriver (S)          | 1    |                |
| 7   | 13F-002     | Machine cover            | 1    |                |
| 8   | 71WF5-009   | Machine head hinge assy. | 2    |                |
| 9   | 71WF5-010   | Cushion cover            | 2    |                |
| 10  | 71WF5-011   | Rubber padding           | 2    |                |
| 11  |             | Wrench                   | 1    |                |
| 12  |             | Wrench                   | 1    |                |
| 13  |             | Wrench                   | 1    |                |
| 14  |             | Needle                   | 3    |                |
| 15  | 71WF1-046   | Bobbin                   | 3    |                |
| 16  | 177WF10-006 | Integrator assy.         | 1    |                |
| 17  |             | Screw                    | 2    |                |
|     |             |                          |      | S=2.5mm        |
|     |             |                          |      | S=3mm          |
|     |             |                          |      | S=4mm          |
|     |             |                          |      | DP×35 23#      |
|     |             |                          |      | GB845 ST3.5×12 |

## 15. Accessories ( II )



## 15. Accessories ( II )

| No. | Parts No.  | Name                    | Qty. | Remarks        |
|-----|------------|-------------------------|------|----------------|
| 1   | 71WF4-019  | Knee lifter drawing bar | 1    | GB/T6170 M5    |
| 2   |            | Nut                     | 1    |                |
| 3   | 71WF4-020  | Connector               | 1    |                |
| 4   | 71WF4-021  | Screw                   | 1    |                |
| 5   | 71WF4-022  | Movable plate assy.     | 1    |                |
| 6   | 71WF4-023  | Screw                   | 1    |                |
| 7   | 71WF4-024  | Washer                  | 1    |                |
| 8   | 71WF4-027  | Knee lifter crank assy. | 1    |                |
| 9   |            | Stop ring               | 2    |                |
| 10  | 71WF4-028  | Spring                  | 1    |                |
| 11  | 71WF4-029  | Knee lifter crank link  | 1    | GB894. 1-86 18 |
| 12  | 71WF4-030  | Screw                   | 1    |                |
| 13  | 71WF4-031  | Stop block              | 1    |                |
| 14  |            | Screw                   | 1    |                |
| 15  |            | Nut                     | 1    |                |
| 16  | 71WF6-001  | Knee lifter shaft assy. | 1    |                |
| 17  | 71WF6-002  | Knee lifter crank       | 1    |                |
| 18  | 22T9-003B4 | Screw                   | 2    |                |
| 19  | 22T9-003B2 | Knee press bar          | 1    |                |
| 20  | 22T9-003B5 | Knee press plate        | 1    |                |
| 21  | 22T9-003B6 | Knee press rod bracket  | 1    | SM5/16"×18     |
| 22  | 22T9-003B7 | Screw                   | 1    |                |
| 23  | 22T9-003B8 | Knee press plate pad    | 1    |                |