



TYPICAL

TC131 SERIES

COMPUTER-CONTROLLED CYCLE MACHINE
WITH INPUT FUNCTION

INSTRUCTION BOOK
PARTS CATALOGUE

XI'AN TYPICAL INDUSTRIES CO.,LTD.

Thank you very much for buying a our company's sewing machine. Before using your new machine, please read the safety instructions below and the explanations given in the instruction manual.

With industrial sewing machines, it is normal to carry out work while positioned directly in front of moving parts such as the needle and thread take-up lever, and consequently there is always a danger of injury that can be caused by these parts. Follow the instructions from training personnel and instructors regarding safe and correct operation before operating the machine so that you will know how to use it correctly.



SAFETY INSTRUCTIONS

1. Safety indications and their meanings

This instruction manual and the indications and symbols that are used on the machine itself are provided in order to ensure safe operation of this machine and to prevent accidents and injury to yourself or other people.


The meanings of these indications and symbols are given below.

Indications

	DANGER	The instructions which follow this term indicate situations where failure to follow the instructions will almost certainly result in death or severe injury.
	CAUTION	The instructions which follow this term indicate situations where failure to follow the instructions could cause injury when using the machine or physical damage to equipment and surroundings.

Symbols




This symbol  indicates something that you should be careful of. The picture inside the triangle.) indicates the nature of the caution that must be taken.
(For example, the symbol at left means "beware of injury".)



This symbol  indicates something that you must not do.



This symbol  indicates something that you must do. The picture inside the circle indicates the nature of the thing that must be done.
(For example, the symbol at left means "you must make the ground connection".)

2. Notes on safety

DANGER



Wait at least 5 minutes after turning off the power switch and disconnecting the power cord from the wall outlet before opening the face plate of the control box. Touching areas where high voltages are present can result in severe injury.

CAUTION

Environmental requirements



Use the sewing machine in an area which is free from sources of strong electrical noise such as high-frequency welders.
Sources of strong electrical noise may cause problems with correct operation.



Any fluctuations in the power supply voltage should be within $\pm 10\%$ of the rated voltage for the machine. Voltage fluctuations which are greater than this may cause problems with correct operation.



The power supply capacity should be greater than the requirements for the sewing machine's electrical consumption.
Insufficient power supply capacity may cause problems with correct operation.



The ambient temperature should be within the range of 5°C to 35°C during use.
Temperatures which are lower or higher than this may cause problems with correct operation.



The relative humidity should be within the range of 45% to 85% during use, and no dew formation should occur in any devices.
Excessively dry or humid environments and dew formation may cause problems with correct operation.



Avoid exposure to direct sunlight during use.
Exposure to direct sunlight may cause problems with correct operation.



In the event of an electrical storm, turn off the power and disconnect the power cord from the wall outlet.
Lightning may cause problems with correct operation.

Installation



Machine installation should only be carried out by a qualified technician.



Contact your Brother dealer or a qualified electrician for any electrical work that may need to be done.



The sewing machine weighs approximately 73 kg.
The installation should be carried out by two or more people.



Do not connect the power cord until installation is complete, otherwise the machine may operate if the foot switch is depressed by mistake, which could result in injury.



Hold the machine head with both hands when tilting it back or returning it to its original position.
Furthermore, after tilting back the machine head, do not push the face plate side or the pulley side from above, as this could cause the machine head to topple over, which may result in personal injury or damage to the machine.



Be sure to connect the ground. If the ground connection is not secure, you run a high risk of receiving a serious electric shock, and problems with correct operation may also occur.



All cords should be secured at least 25 mm away from any moving parts. Furthermore, do not excessively bend the cords or secure them too firmly with staples, otherwise there is the danger that fire or electric shocks could occur.



Install the safety covers to the machine head and motor.



If using a work table which has casters, the casters should be secured in such a way so that they cannot move.












Be sure to wear protective goggles and gloves when handling the lubricating oil and grease, so that they do not get into your eyes or onto your skin, otherwise inflammation can result.

Furthermore, do not drink the oil or eat the grease under any circumstances, as they can cause vomiting and diarrhoea.



Keep the oil out of the reach of children.

CAUTION









Sewing

-  This sewing machine should only be used by operators who have received the necessary training in safe use beforehand.
-  The sewing machine should not be used for any applications other than sewing.
-  Be sure to wear protective goggles when using the machine.
If goggles are not worn, there is the danger that if a needle breaks, parts of the broken needle may enter your eyes and injury may result.
-  Turn off the power switch at the following times, otherwise the machine may operate if the foot switch is depressed by mistake, which could result in injury.
When threading the needle
When replacing the needle and bobbin
When not using the machine and when leaving the machine unattended
-  If using a work table which has casters, the casters should be secured in such a way so that they cannot move.
-  Attach all safety devices before using the sewing machine. If the machine is used without these devices attached, injury may result.
-  Do not touch any of the moving parts or press any objects against the machine while sewing, as this may result in personal injury or damage to the machine.
-  If an error occurs in machine operation, or if abnormal noises or smells are noticed, immediately turn off the power switch. Then contact your nearest Brother dealer or a qualified technician.
-  If the machine develops a problem, contact your nearest Brother dealer or a qualified technician.

Cleaning

-  Turn off the power switch before carrying out cleaning, otherwise the machine may operate if the foot switch is depressed by mistake, which could result in injury.
-  Be sure to wear protective goggles and gloves when handling the lubricating oil and grease, so that they do not get into your eyes or onto your skin, otherwise inflammation can result.
Furthermore, do not drink the oil or eat the grease under any circumstances, as they can cause vomiting and diarrhoea.
Keep the oil out of the reach of children.

Maintenance and inspection

-  Maintenance and inspection of the sewing machine should only be carried out by a qualified technician.
-  Ask your Brother dealer or a qualified electrician to carry out any maintenance and inspection of the electrical system.
-  Turn off the power switch and disconnect the power cord from the wall outlet at the following times, otherwise the machine may operate if the foot switch is depressed by mistake, which could result in injury.
When carrying out inspection, adjustment and maintenance
When replacing consumable parts such as the rotary hook
-  If the power switch needs to be left on when carrying out some adjustment, be extremely careful to observe all safety precautions.
-  Hold the machine head with both hands when tilting it back or returning it to its original position.
Furthermore, after tilting back the machine head, do not push the face plate side or the pulley side from above, as this could cause the machine head to topple over, which may result in personal injury or damage to the machine.
-  Use only the proper replacement parts as specified by our company's.
-  If any safety devices have been removed, be absolutely sure to re-install them to their original positions and check that they operate correctly before using the machine.
-  Any problems in machine operation which result from unauthorized modifications to the machine will not be covered by the warranty.

3.Warning labels

The following warning labels appear on the sewing machine.

Please follow the instructions on the labels at all times when using the machine.If the labels have been removed or are difficult to read, please contact your nearest dealer.

1



2

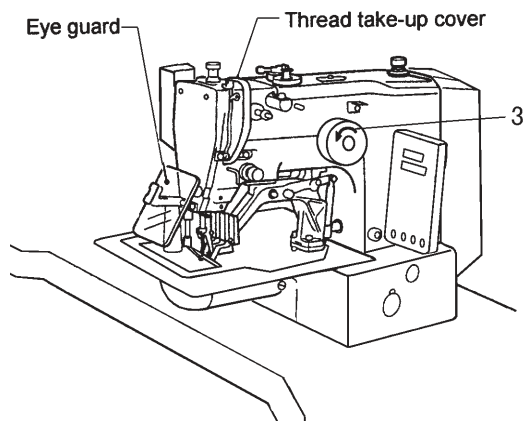


Be sure to connect the ground. If the ground connection is not secure, you run a high risk of receiving a serious electric shock, and problems with correct operation may also occur.

3

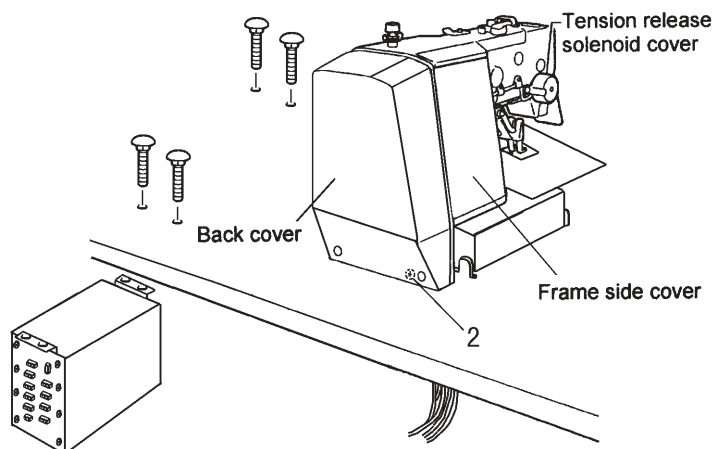


Direction of operation

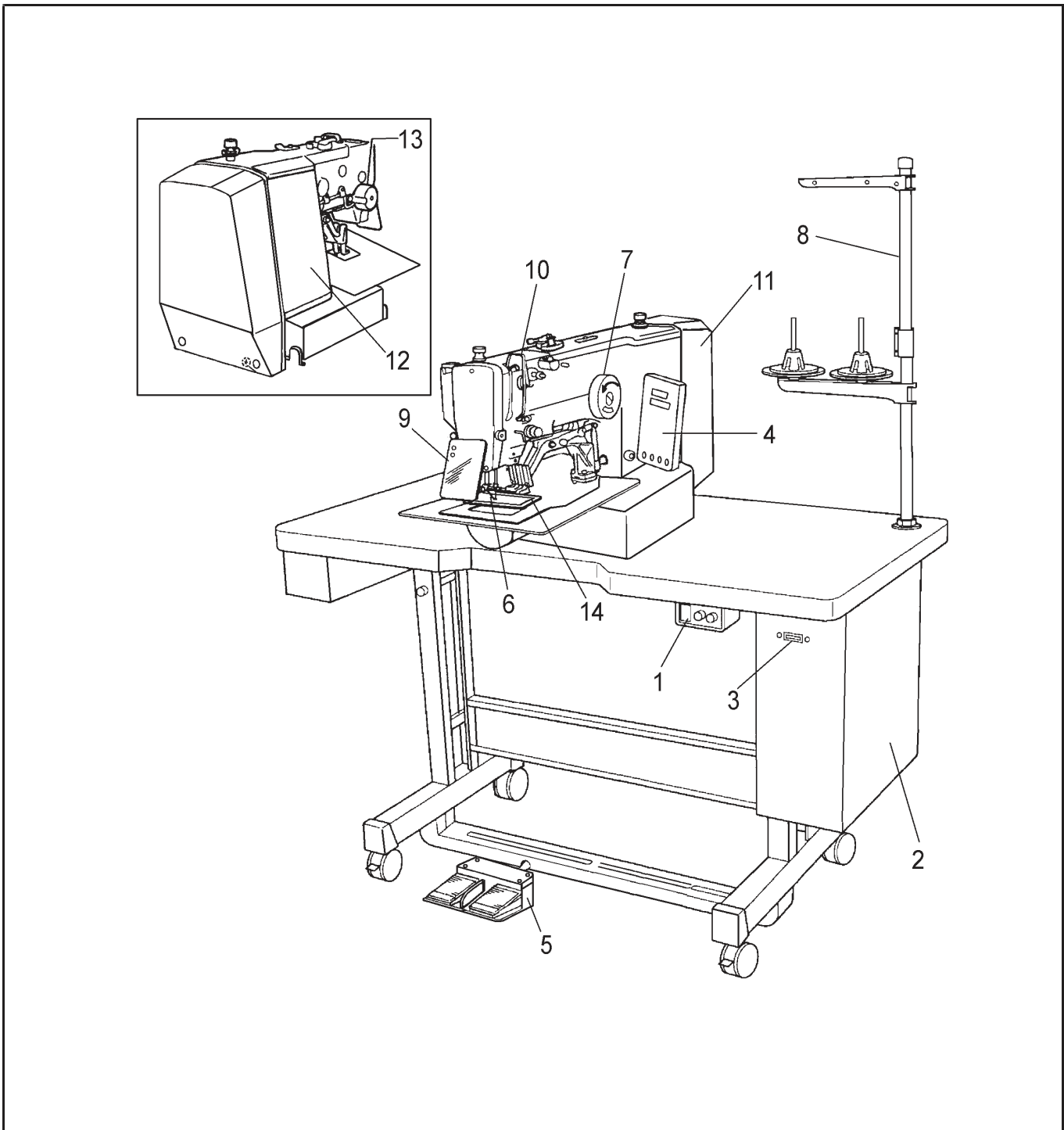


Safety devices:

- (A)Eye guard
- (B)Tension release solenoid cover
- (C)Thread take-up cover
- (D)Back cover,etc.
- (E)Frame side cover



1. NAMES OF MAJOR PARTS











- (1) Power switch
- (2) Control box
- (3) SD slot
- (4) Operation panel
- (5) Switch of pedal
- (6) Middle presser foot
- (7) Pulley
- (8) Cotton stand

- Safety devices**
- (9) Eye guard
 - (10) Thread take-up cover
 - (11) Back cover
 - (12) Frame side cover
 - (13) Tension release solenoid cover
 - (14) Presser frame

2. SPECIFICATIONS

	TC131-0705
Stitch formation	Single needle lock stitch
Maximum sewing speed	2700rpm
Pattern size(X×Y)	70×50mm
Feed mechanism	Y-0 intermittent feed mechanism (pulse-motor driven mechanism)
Stitch length	0.1-12.7mm
Number of stitches	Variable (Refer to "Program List" for details on the number of stitches for sewing patterns that are already preset.)
Maximum stitch number	400,000 stitches
Work clamp lifter	Pulse-motor driven mechanism
lift of presser frame	17mm max.
stroke of middle presser foot	5mm
Rotary hook	Shuttle hook
Wiper device	Standard equipment
Thread trimmer device	Standard equipment
lift of middle presser foot	16mm
Data storage method	Flash memory (Any sewing pattern can be added using SD card)
Number of stored data	3 sewing patterns are set already
Motor	AC servo motor 450 W
Power source	220V+10% 50HZ(others are optional)

3. INSTALLATION

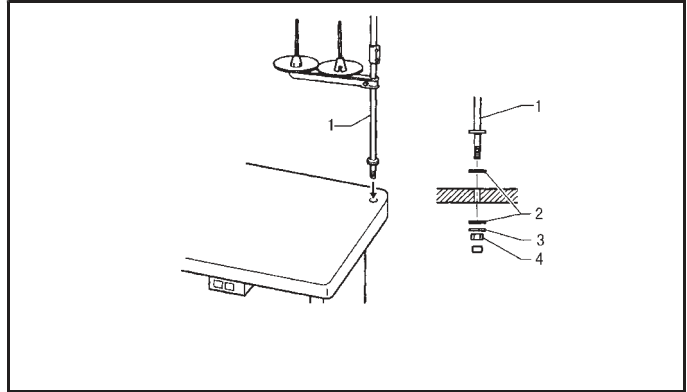
 CAUTION	
<p> Machine installation should only be carried out by a qualified technician.</p> <p> Contact your Brother dealer or a qualified electrician for any electrical work that may need to be done. The sewing machine head weighs approximately 56 kg. The installation should be carried out by two or more people.</p> <p> Do not connect the power cord until installation is complete, otherwise the machine may operate if the foot switch is depressed by mistake, which could result in injury.</p> <p> Hold the machine head with both hands when tilting it back or returning it to its original position. Furthermore, after tilting back the machine head, do not push the face plate side or the pulley side from above, as this could cause the machine head to topple over, which may result in personal injury or damage to the machine.</p>	<p> All cords should be secured at least 25 mm away from any moving parts. Furthermore, do not excessively bend the cable or secure it too firmly staples, otherwise there is the danger that fire or electric shocks could occur.</p> <p> Be sure to connect the ground: If the ground connection is not secure, you run the risk of receiving a serious electric shock, and problems with correct operation may also occur.</p> <p> Install the safety covers to the machine head and motor.</p>

3-1. Installing the cotton stand

(1) Cotton stand

Note:

Securely tighten the nut (4) so that the two rubber cushions (2) and the washer (3) are securely clamped and so that the cotton stand (1) does not move.



3-2. Lubrication

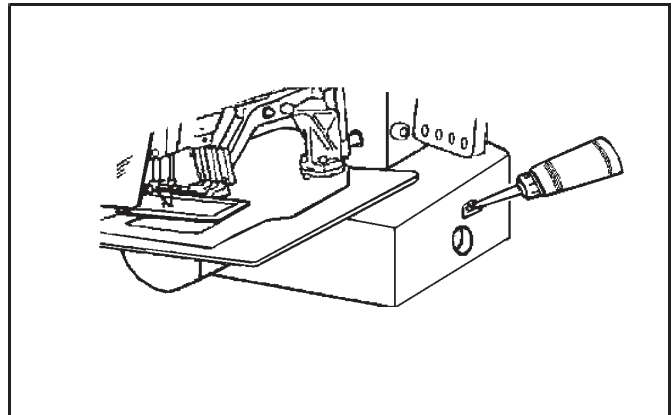
The sewing machine should always be lubricated and the oil supply replenished before it is used for the first time, and also after long periods of non-use.

Use only the lubricating oil specified by our company's.

1. Fill the oil tank with oil.

Note

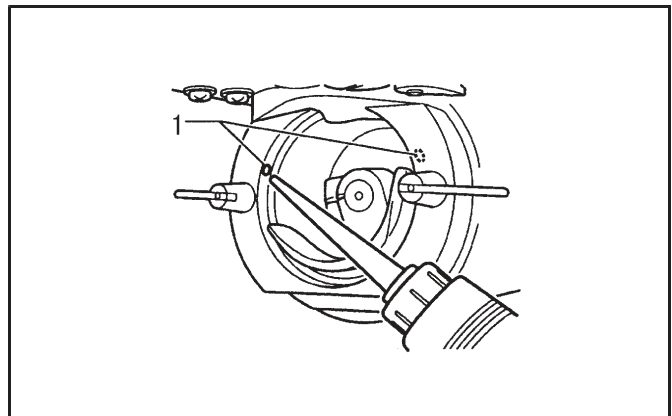
Fill the machine with oil when the oil level is down to about one-third full in the oil sight glass. If the oil drops below this level, there is the danger that the machine may seize during operation.



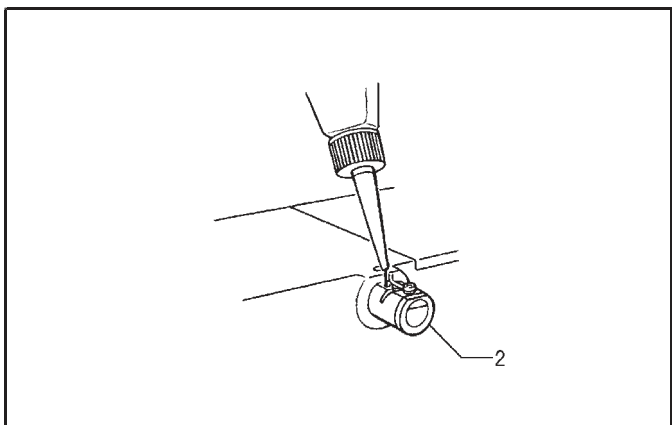
2. Pour oil in through the two holes (1) of the shuttle race base assembly so that the felt is lightly moistened.

Note:

If there is no more oil on the felt of the shuttle race base assembly, problems with sewing may result.

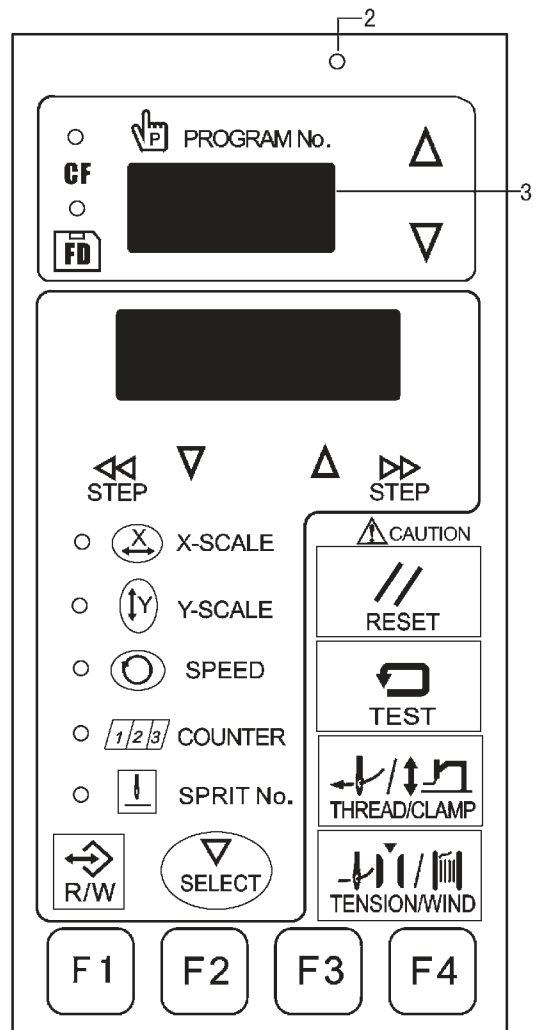


3. If using the liquid cooling tank (2), fill it with silicon oil (100 mm² /s).

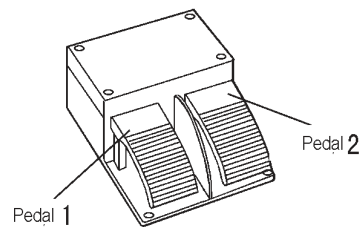
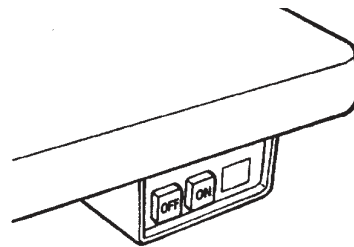


3-3.Starting up

1.Turn on the power switch.



2.Tread pedal 2 to position 1 could select pattern , tread pedal 1 to position 1 presser foot lift



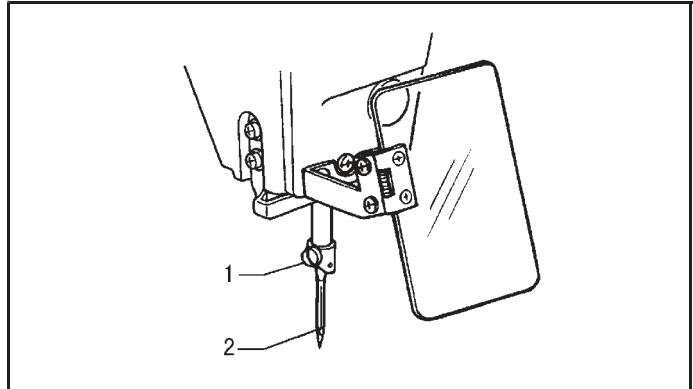
4. PREPARATION BEFORE SEWING

4-1. Installing the needle



Turn off the power switch before installing the needle, otherwise the machine may operate if the foot switch is depressed by mistake, which could result in injury.

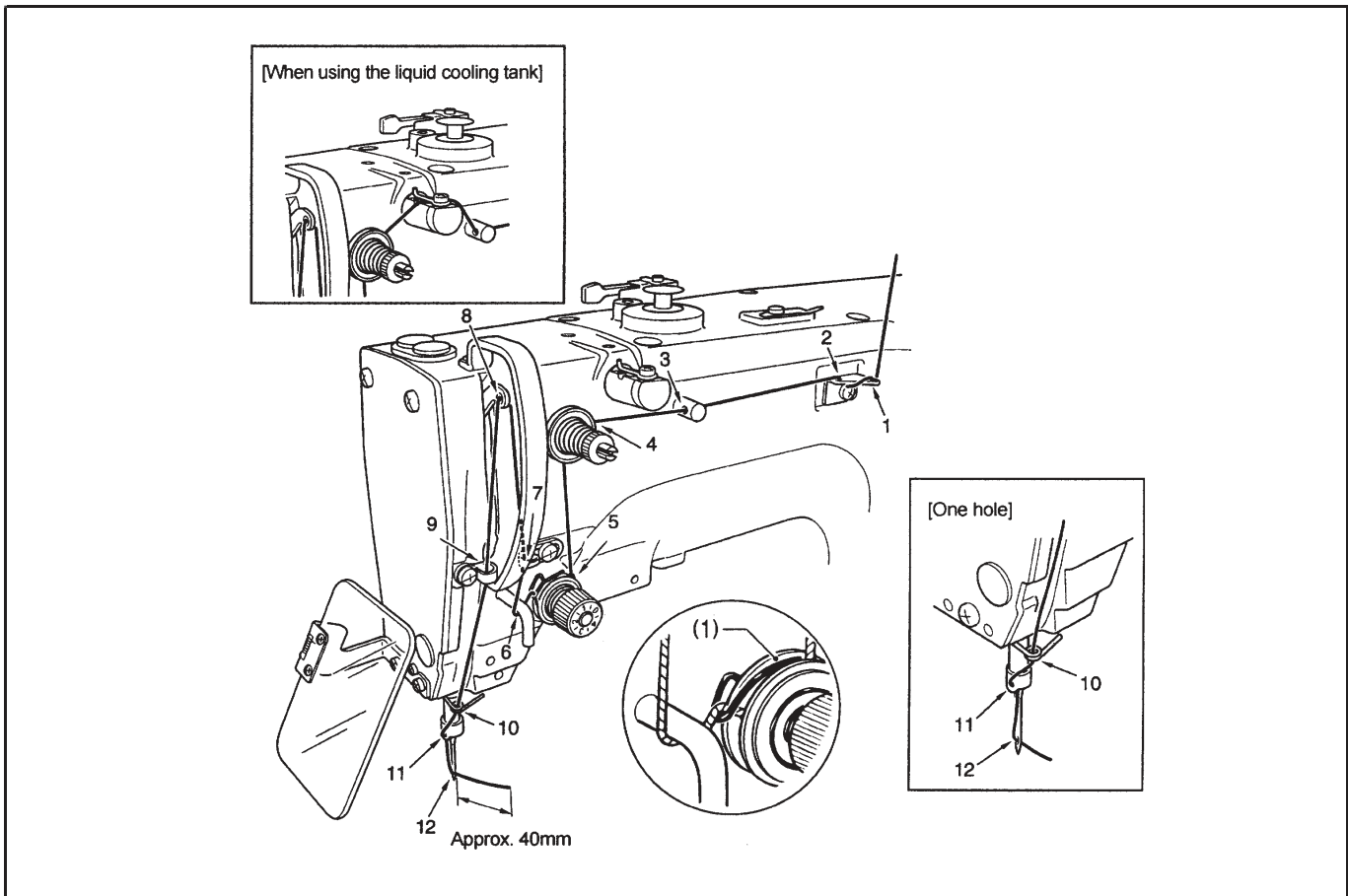
1. Loosen the set screw (1).
2. Insert the needle (2) in a straight line as far as it will go, making sure that the long groove on the needle is at the front, and then securely tighten the screw (1).



4-2. Threading the upper thread

Thread the upper thread correctly as shown in the illustration below.

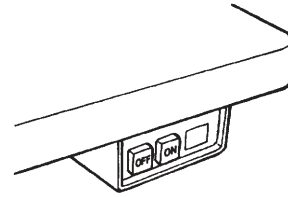
* When using threading mode for threading, the tension discs (1) will open so that the thread can be threaded more easily.



<Threading mode>

Threading mode is safe because the sewing machine will not start even when the foot switch is depressed.

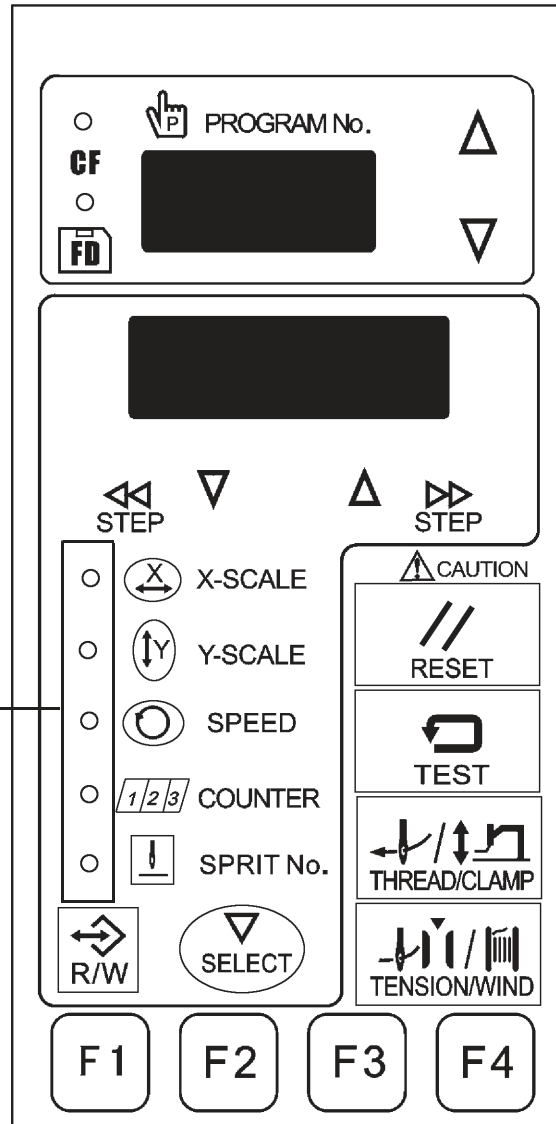
1. Turn on the power switch.



- 2. ● The work clamp /button clamp will lower
- The tension discs will open.



Press the THREAD/CLAMP key.



All indicators switch off
 THREAD/CLAMP indicator lights
 Menu indicators switch off

3. Threading the thread.

- When 5 minutes have passed, the buzzer will sound and the tension discs will close.

4. Ending threading mode

Press the THREAD/CLAMP key.

- The work clamp/button clamp will return to where it was before threading mode was started.



THREAD/CLAMP indicator switches off

4-3. Winding the lower thread

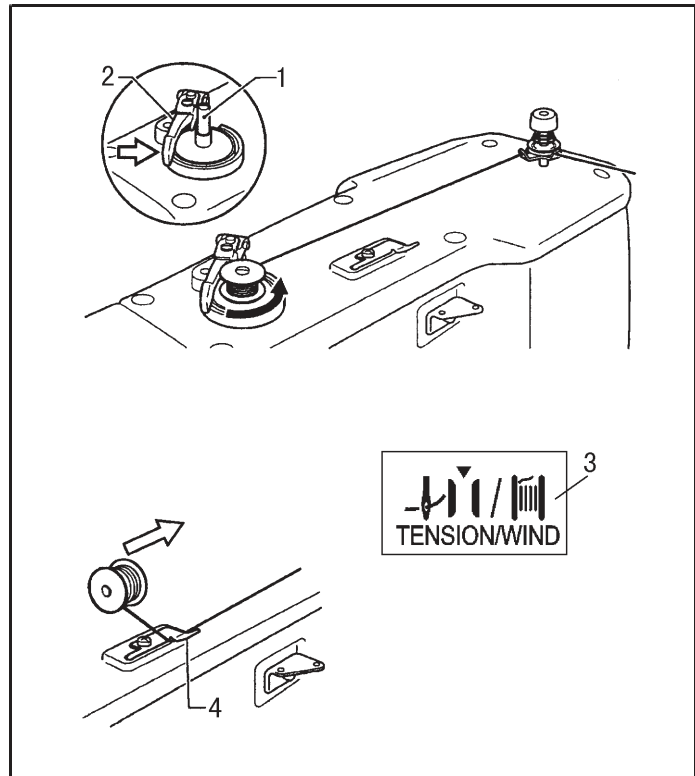


CAUTION



Do not touch any of the moving parts or press any objects against the machine while winding the lower thread, as this may result in personal injury or damage to the machine.

1. Place the bobbin onto the bobbin winder shaft (1).
2. Thread the thread as shown in the illustration, wind the thread around the bobbin several times, and then press the bobbin presser arm (2).
3. Turn on the power switch.
4. Tread pedal 1 to position 1, could check up origin position
5. Make sure needle will not strike presser foot then push button TENSION/WIND (3) and tread pedal 2 to position 1 at the same time.
6. When machine start working release button TENSION/WIND (3), keep on treading pedal 2 until thread winding finished. If release pedal during thread winding, please push button TENSION/WIND (3) once again and tread pedal 2 thread winding will start again.
7. When thread winding reaches the regulated amount (80-90% of bobbin's outside diameter), it should be stopped. Bobbin holder will come back automatically; thread pedal 2 to position 0. Thread winding finished.
8. Remove the bobbin, hook the thread onto the knife (4), and then pull the bobbin in the direction of the arrow to cut the thread.



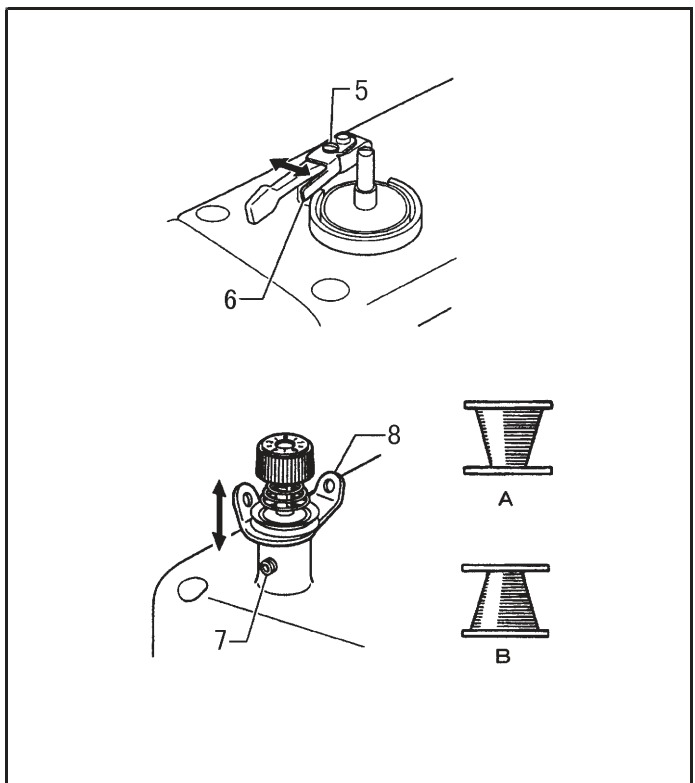
Adjusting the bobbin winding amount

Loosen the screw (5) and move the bobbin presser (6).

If the thread winds onto the bobbin unevenly

Loosen the set screw (7) and move the bobbin winder tension assembly (8) up and down to adjust.

* For case A, move the bobbin winder tension assembly (8) down, and for case B, move it upward.



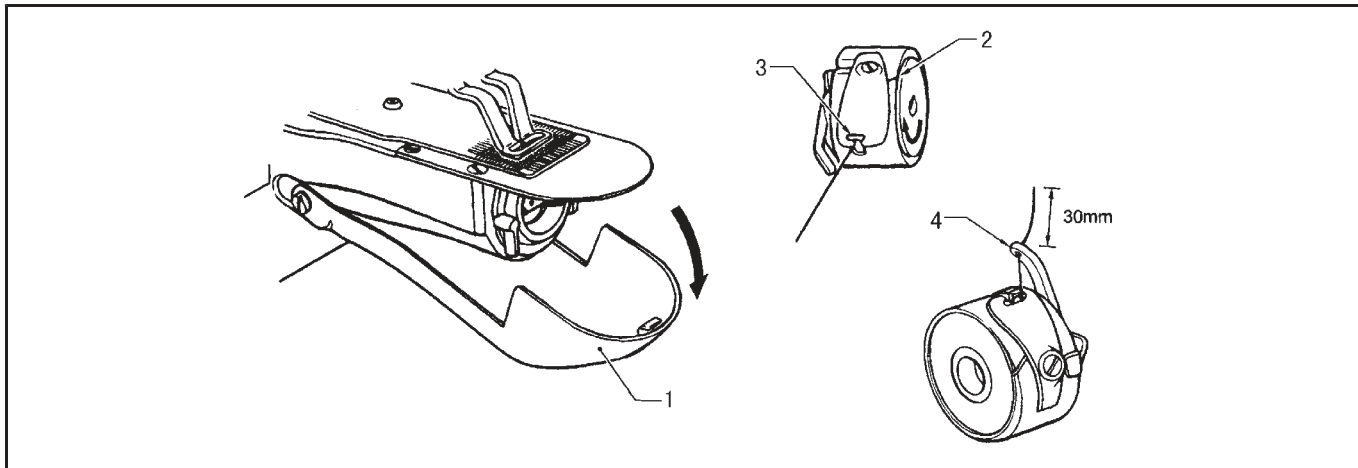
4-4. Installing the bobbin case



CAUTION



Turn off the power switch before installing the bobbin case, otherwise the machine may operate if the foot switch is depressed by mistake, which could result in injury.



1. Pull the shuttle race cover (1) downward to open it.
2. While holding the bobbin so that the thread winds to the right, insert the bobbin into the bobbin case.
3. Pass the thread through the slot (2) and pull it out from the thread hole (3).
4. Check that the bobbin turns in the direction of the arrow when the thread is pulled.
5. Pass the thread through the lever thread hole (4), and then pull out approximately 30 mm of thread.
6. Hold the latch on the bobbin case and insert the bobbin case into the rotary hook.

5. SEWING



CAUTION



Turn off the power switch at the following times, otherwise the machine may operate if the foot switch is depressed by mistake, which could result in injury.

- When threading the needle
- When replacing the needle and bobbin
- When not using the machine and when leaving the machine unattended

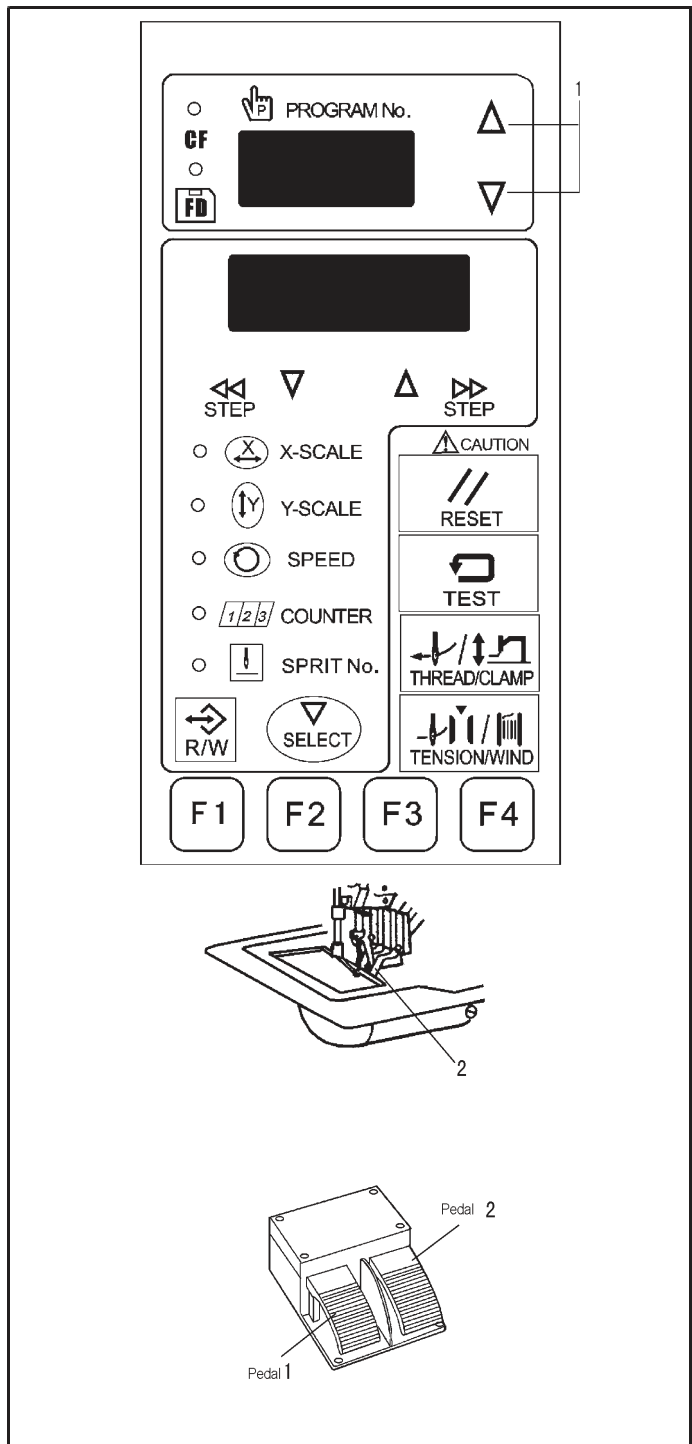


Do not touch any of the moving parts or press any objects against the machine while sewing, as this may result in personal injury or damage to the machine.

1. Turn on the power switch.
2. Press the Δ or ∇ key (1) to select the number for the program to be sewn.
3. Tread pedal 2 to position 1, select program, tread pedal 1 to position 1, presser foot lift
4. Put fabric under presser foot 2
5. Tread panel 1 to position 2 presser foot comes down.
6. Tread pedal to position 1 machine start working.

4. Put fabric under presser foot 2
5. Tread panel 1 to position 2 presser foot comes down.
6. Tread pedal to position 1 machine start working.

7. Once sewing is completed and the thread has been trimmed, the work clamp (2) will rise.

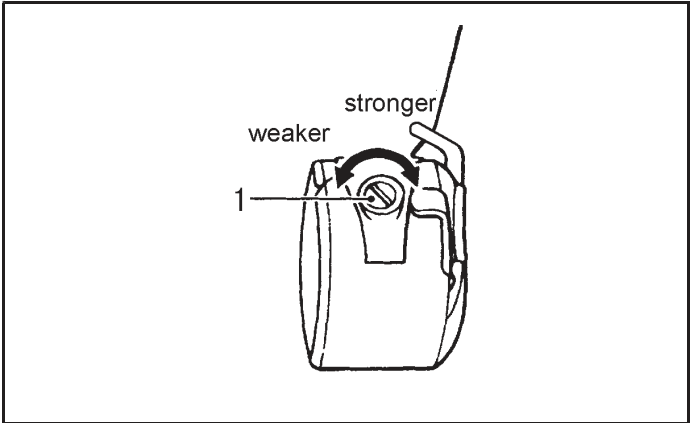


6.ADJUSTING

6-1 Thread tension

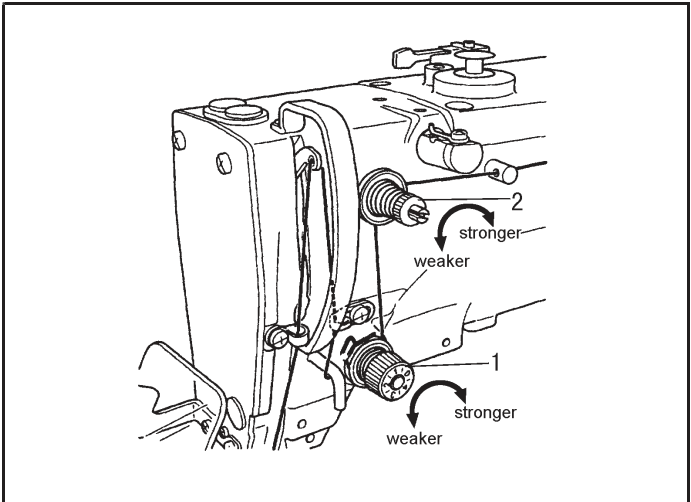
6-1-1 Lower thread tension

Adjust the thread tension to the weakest possible tension by turning the thread tension nut (1) until the bobbin case will not drop by its own weight while the thread end coming out of the bobbin case is held.



6-1-2. Upper thread tension

Turn the tension nut (1)(main tension) to adjust the tension as appropriate for the material being sewn. Furthermore, turn the tension nut (2) (sub-tension) to adjust the remaining length of upper thread to 35 – 40 mm, when the thread take-up lever is not used.



Reference thread tension

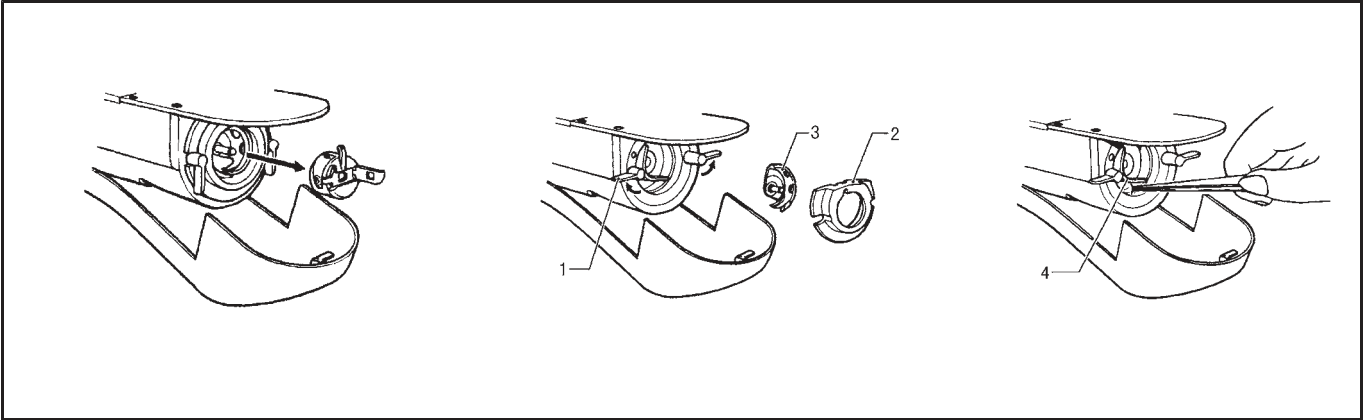
Use	TC131
Upper thread	#30 or equivalent
Lower thread	#50 or equivalent
Upper thread tension (N)	1.6-2.0
Lower thread tension (N)	0.2-0.3
Pre-tension (N)	0.05-0.3
Needle	DP×17 #19

Note: The thread may break due to heat under some sewing conditions. If this happens, reduce the sewing speed, or use the liquid cooling tank.

7. MAINTENANCE

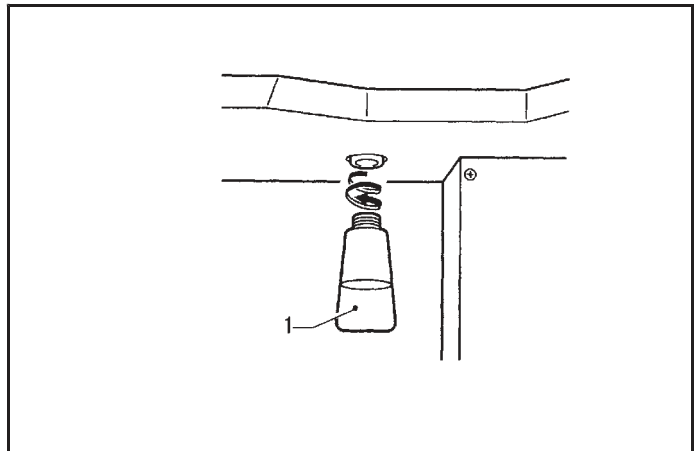
7-1. Cleaning the rotary hook

1. Pull the shuttle race cover downward to open it, and then remove the bobbin case.
2. Open the setting claw (1) in the direction indicated by the arrow, and then remove the shuttle race base (2) and the shuttle hook (3).
3. Clean all the dust and thread ends from around the driver (4), the top of the rotary hook thread guide and the shuttle race.



7-2. Draining the oil

1. Remove and empty the waste oil container (1) whenever it is full.
2. After emptying the waste oil container (1), screw it back into its original position.

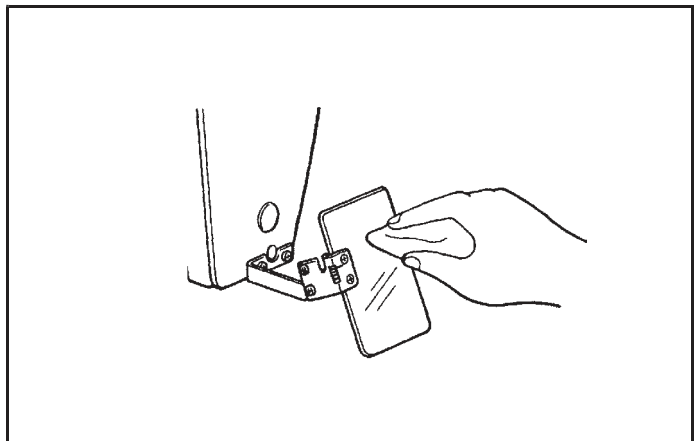


7-3. Cleaning the eye guard

Wipe the eye guard clean with a soft cloth.

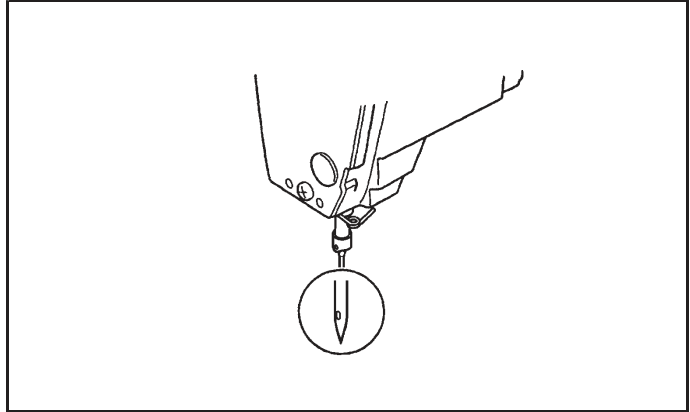
Note:

Do not use solvents such as kerosene or thinner to clean the eye guard.



7-4. Checking the needle

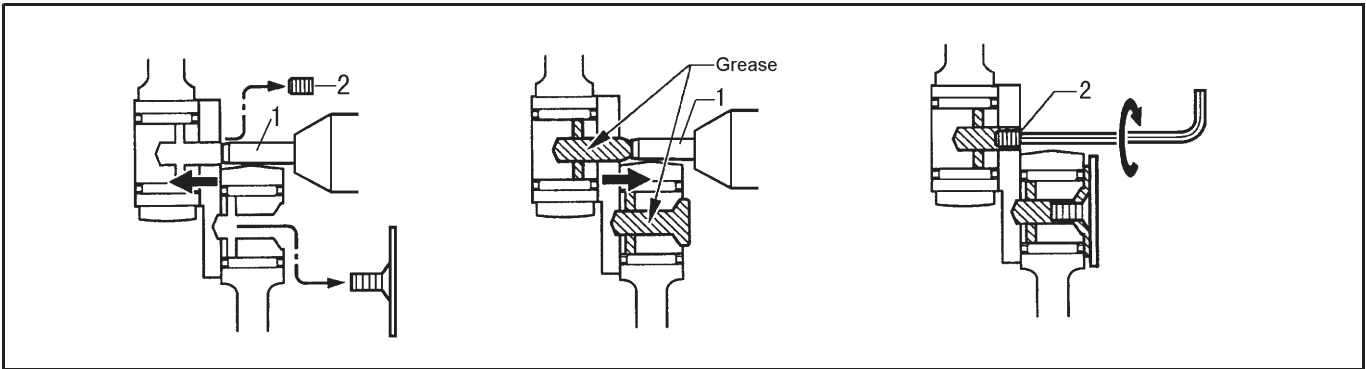
Always check that the tip of the needle is not broken and also the needle is not bent before starting sewing.



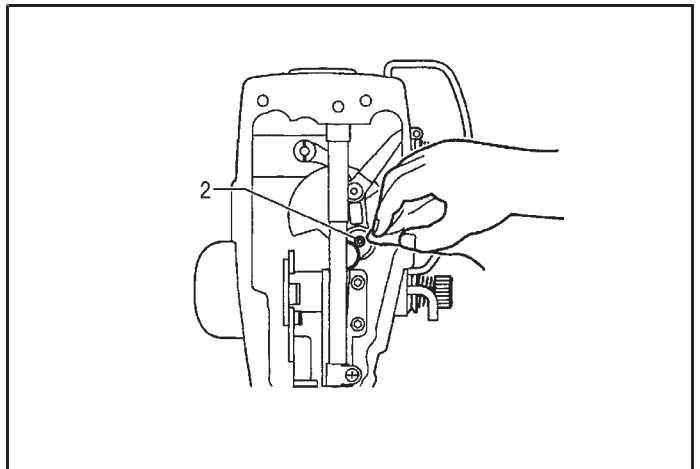
7-5. Lubrication

Carry out the lubrication referring to "3-12 lubrication"

7-6. Applying grease



1. Turn off the power switch.
2. Remove the screw (2). (Refer to the separate page for greasing locations.)
3. While turning the machine pulley by hand to move the needle bar up and down, apply grease to each hole until the grease overflows slightly.
4. Tighten the screw (2) to push in the grease.
5. Turn the machine pulley by hand to move the needle bar up and down several times in order to disperse the grease.
6. Use a cloth to wipe away any excess grease from around the screw (2).



Note:

- Once the grease tube has been opened, remove the nozzle from the tube, attach the cap securely and store the tube in a cool dark place.
 - The grease should be used as quickly as possible.
 - When using the grease again, remove any old grease from inside the nozzle first
- (Store the tube away carefully once the tube has been opened, otherwise the grease remaining inside the tube may deteriorate, and this may affect its lubricating performance.)

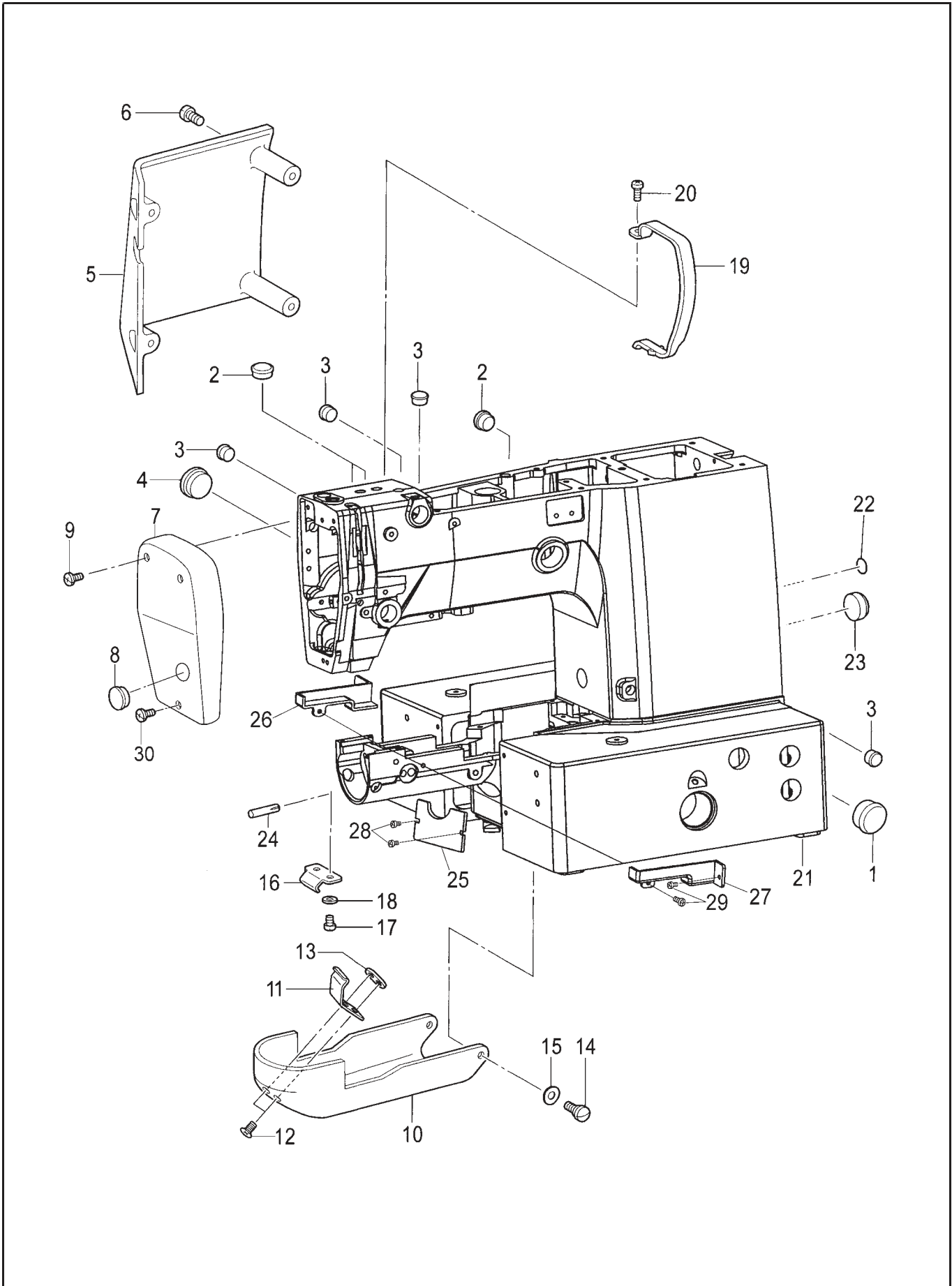
Trouble shooting

Trouble	Cause	Check point	Remedy
Thread breaks	<p>Surface thread tension is too strong</p> <p>needle is not properly installed</p> <p>Thread is too big thick for the needle</p> <p>Bottom thread tension is too strong</p>	<p>Surface thread tension</p> <p>Needle direction</p> <p>Needle and Thread</p> <p>Bottom thread tension</p>	<p>Adjust the tension</p> <p>Needle slot face the front</p> <p>Choose the needle and thread</p> <p>Adjust the tension</p>
Thread slips out of needle at first stitch	<p>Space between needle and hook is too big</p> <p>Needle enter too much into the hook</p> <p>Needle bent</p> <p>Needle installed incorrectly</p>	<p>Space between needle and hook</p> <p>Space between needle and hook</p> <p>Needle bent</p> <p>Needle direction</p>	<p>Adjust the Space between needle and hook</p> <p>Adjust the Space between needle and hook</p> <p>Choose the needle and thread and change the needle</p> <p>Needle slot face the front</p>
Needle breaks	<p>Needle touch the hook</p> <p>Needle bent</p> <p>Wrong sewing</p> <p>Swing hook too high</p>	<p>Space between needle and hook</p> <p>Needle bent</p> <p>needle and fabric not in synchronization</p> <p>Height of the Swing hook</p>	<p>Adjust the Space between needle and hook</p> <p>Choose the needle and thread and change the needle</p> <p>Adjust the needle and fabric in synchronization</p> <p>Adjust the Height of the Swing hook</p>

Trouble shooting

Trouble	Cause	Check point	Remedy
Thread not trimmed	<p>fixed knife blunt thread cutting spring loose, moving knife cannot move in place moving knife cannot turn Surface thread Last stitch skip, moving knife cannot turn Surface thread moving knife wrong position</p>	<p>Fix knife blade thread cutting spring tension hook guide line position skip last stitch moving knife position</p>	<p>changing the moving knife changing the thread cutting spring put the hook guide line in same line with the hook Turn to the skip stitch adjust the moving knife position</p>
Thread ensnared	<p>picking spring too loose hook guide line not spread the thread</p>	<p>picking spring tension hook guide line position</p>	<p>adjust the picking spring tension and height put the hook guide line in same line with the hook</p>
Thread tension poor	<p>Surface thread tension too weak Bottom thread tension too weak</p>	<p>Surface thread tension Bottom thread tension</p>	<p>adjust the tension adjust the tension</p>
Preeser foot does not rise	<p>Footlifter motor problem Footlifter cam not Synchronization</p>	<p>Motor gear Footlifter cam Synchronization position</p>	<p>change motor Adjust Footlifter cam Synchronization position</p>

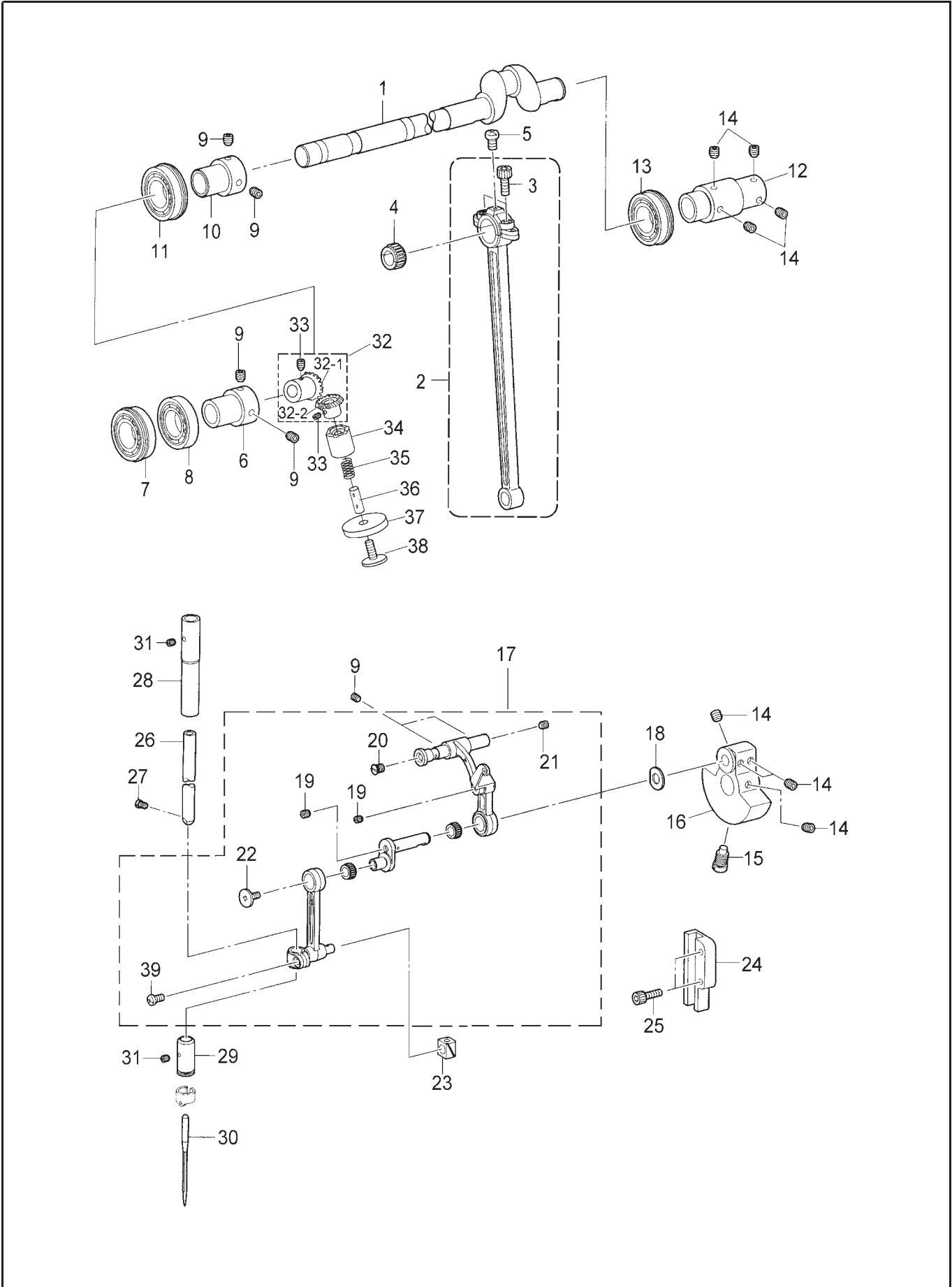
1. Machine body



1. Machine body

No.	Ref.No.	Description	Qt.	Note
1	B960718001	Oil cap	1	
2	B993176009	Rubber cap 13.5	3	
3	B906289009	Rubber cap 10.5	10	
4	B960718001	Oil cap	1	
5	213000004	Side cover	1	
6	B048049094	Screw M6X10	4	
7	213000003	Face plate	1	
8	B906661009	Rubber cap 15.5	1	
9	B048509094	Screw M5X10	2	
10	BXF6646009	Shuttle race cover	1	
11	BXF7847009	Shuttle race cover hook D	1	
12	B006700597	Screw M3X5	2	
13	BXF7846009	Plate nut	1	
14	BXF7845009	Shoulder screw 8-2	2	
15	B901871008	Washer	2	
16	BXF7844009	Shuttle race cover hook U	1	
17	B048700694	Screw M3X4	2	
18	B085070874	Washer M3	2	
19	BXF7800909	Thread take-up cover	1	
20	B048609004	Screw M4X10	1	
21	BX72761009	Label	1	
22	036E02002	Label, Grounding	1	
23	BX82066009	Rubber cap 20.8	1	
24	S150435018	Pin B4x20	1	
25	234000001	Front baffle	1	
26	234000002	Left cover	1	
27	234000003	Right cover	1	
28	B048509094	Screw M5x10	2	
29	B048600294	Screw M4x8	4	
30	B048500294	Screw M5x8	1	

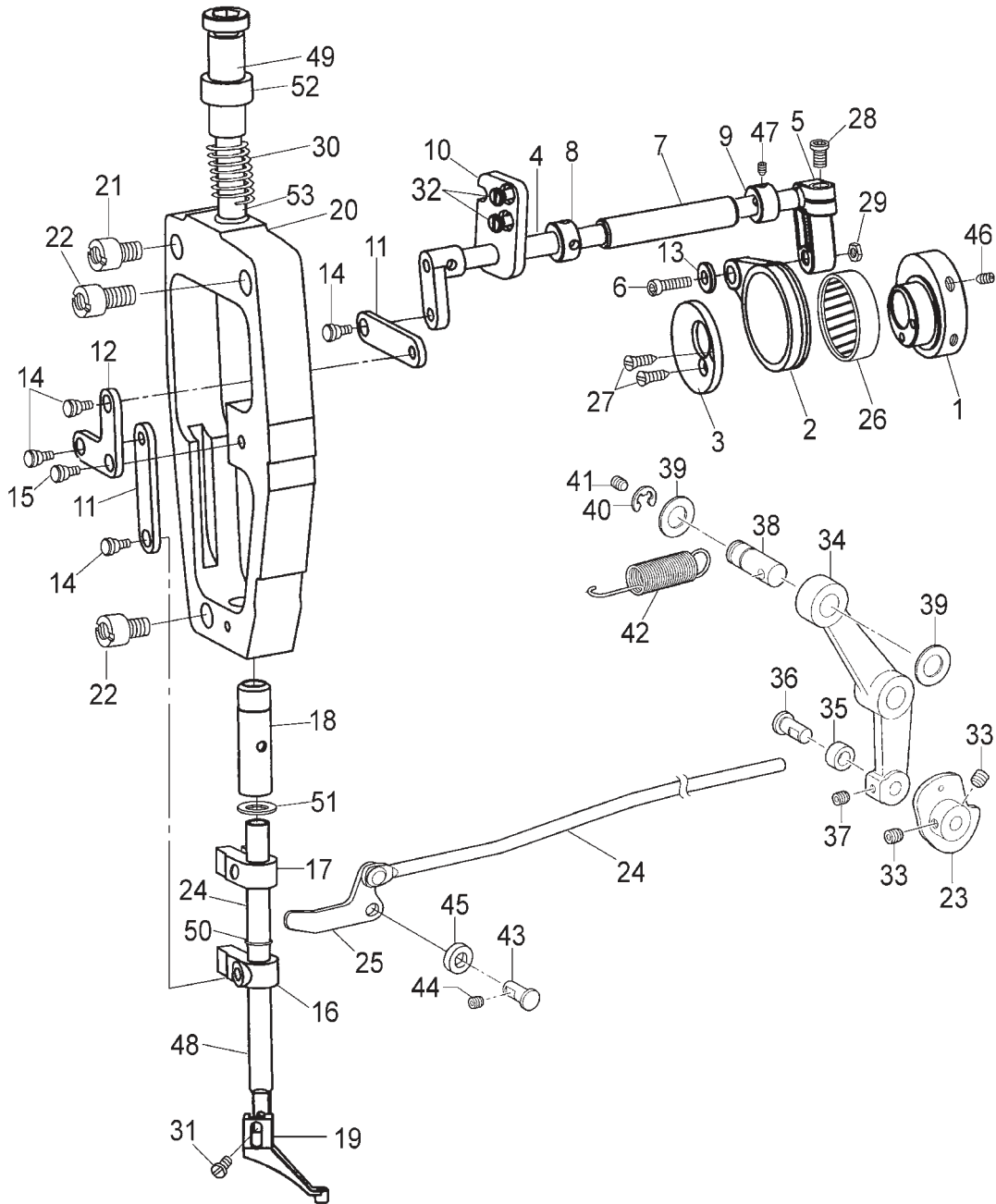
2. Upper shaft and needle bar mechanism



2. Upper shaft and needle bar mechanism

No.	Ref.No.	Description	Qt.	Note
1	BXF7809009	Upper shaft	1	
2	BXF7611009	Connecting assy	1	
3	B092509474	Bolt,Socket M5×16	2	
4	BXF7843009	Needle bearing H	2	Optiona
4	BXF7818009	Needle bearing H	2	Optiona
4	BXF7650009	Needle bearing H	2	Optiona
4	BXF7626009	Needle bearing H	2	Optiona
5	B048700694	Screw M3X4	1	
6	BXF7804009	Ball bearing bush	1	
7	BXF6931009	Ball bearing, 6904ZZNR	1	
8	BXF6920009	Ball bearing R-6904ZZ	1	
9	B098040474	Set screw M6X6	6	
10	BXF7804009	Ball bearing bush	1	
11	S150866037	Ball bearing 6004ZZNR	1	
12	213101001	coupling A	1	
13	S150866006	Ball bearing 6204ZZNR	1	
14	BX87459009	Set screw M6X6	8	
15	BX85875009	Screw M8	1	
16	BXF7613009	Thread take-up crank,C	1	
17	213102000	Thread take-up lever,assy	1	
18	B990743009	Washer 8	1	
19	B098700774	Set screw M3x3	2	
20	BXF8152009	Screw M5x6	1	
21	B098500574	Set screw M5x5	1	
22	B965465009	Screw SM3.57-40×6L	1	
23	BXF7622009	Slide block	1	
24	BXF7582009	Slide block guide	1	
25	B092609474	Bolt,Socket M4X16	2	
26	BXF7888009	Needle bar	1	
27	B966652009	Screw SM3.57-40X4.5	1	
28	BXF7887009	Needle bar bush,U	1	
29	BXF7886009	Needle bar bush,D	1	
30	※	Needle	1	
31	B098500574	Bolt,Socket M5X5	2	
32	B929018009	Bevel gear assy	1	
32-1	B994336009	Upper shaft Bevel gear	1	
32-2	B994111009	Vertical shaft Bevel gear U	1	
33	B096330488	Screw SM6.35	4	
34	213100006	Hand wheel bush	1	
35	B958232009	Spring	1	
36	213000011	Hand wheel shaft	1	
37	T2D280203	Hand wheel	1	
38	213000012	Screw M4X8	1	

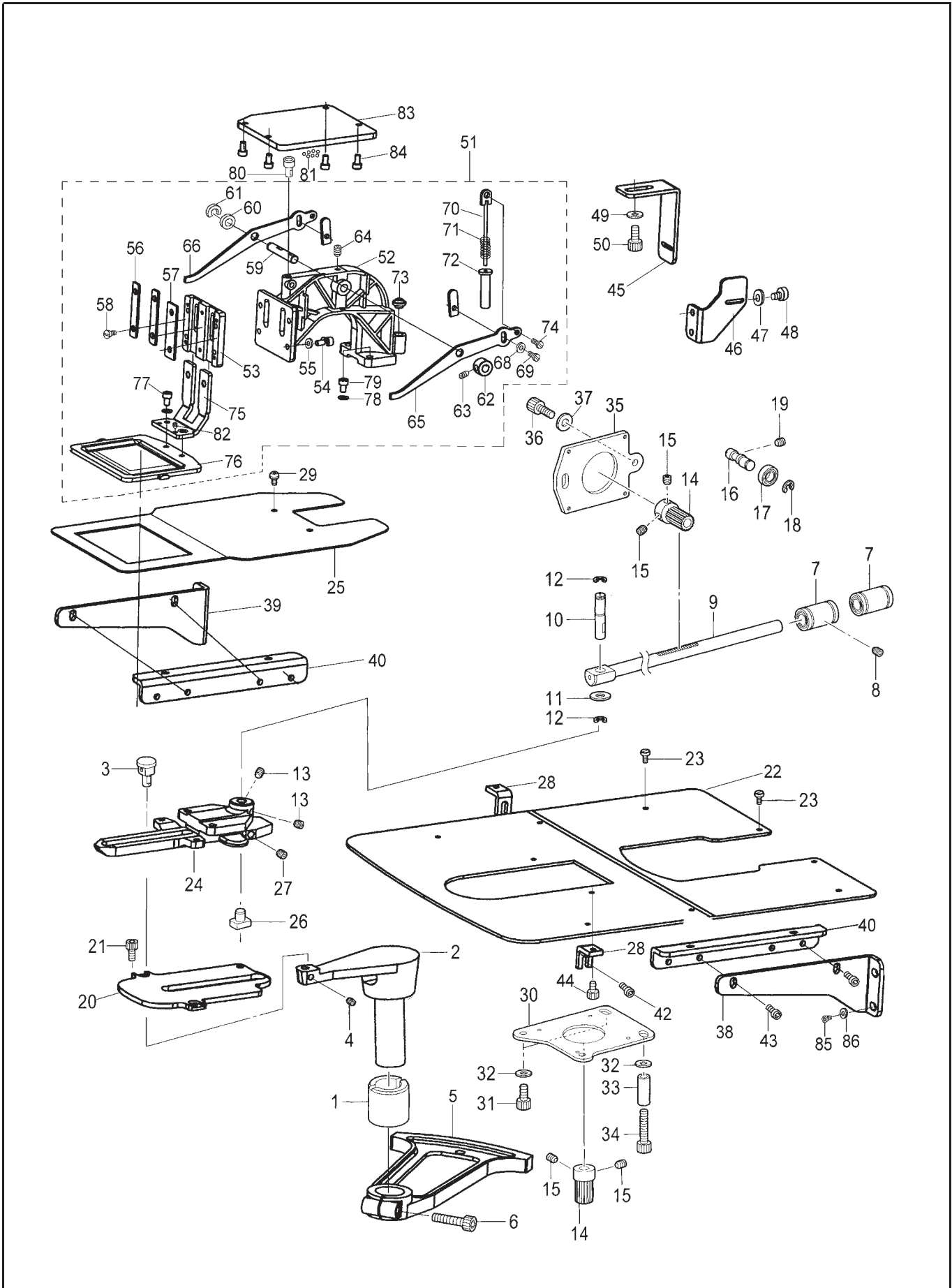
3. Follow-up mechanism



3. Follow-up mechanism

No.	Ref.No.	Description	Qt.	Note
1	234020001	Eccentricity crank	1	
2	234020002	Swing crank lever	1	
3	234020003	Eccentricity crank cap	1	
4	234020004	Swing lever	1	
5	234020005	Crank lever	1	
6	234020018	Shaft positioning screw 7-8	1	
7	234020006	Swing lever bush	1	
8	234020007	Ring tightener F	1	
9	234020008	Ring tightener B	1	
10	234020009	Bracket	1	
11	234020010	Connecting lever 1	2	
12	234020011	Connecting lever 2	1	
13	234020021	Washer	1	
14	234020020	Shaft positioning screw 2	4	
15	234020019	Spiral positioning screw 3	1	
16	234020012	Fixed sliding block for pressing foot	1	
17	234020013	Moved sliding block for pressing foot	1	
18	234020015	Middle pressing foot bush	1	
19	234020016	Middle pressing foot	1	
20	234020022	Faceplate lining	1	
21	234020023	Faceplate screw(long)	1	
22	234020024	Faceplate	2	
23	234020017	pressing foot lifter cam	1	
24	234021000	pressing foot lifter assy	1	
25	234021001	pressing foot lifter crank	1	
26	S150866069	All bearing 6805vv	1	
27	BX09414009	Screw SM3.57-40x6	2	
28	B092509878	Screw M5x12	1	
29	S120501005	Nut M5x0.5	1	
30	B969382009	pressing bar spring	1	
31	022700015	Screw SM 3.57-40x1	1	
32	BXF7572009	Screw M4x8	2	
33	B098040474	Set screw M6X6	2	
34	BXF7662009	Thread wiping driven lever	1	
35	BXF7661009	Thread wiping roller	1	
36	BXF7669009	W-Clamp lifter roller shaft	1	
37	B098500574	Set screw M5X5	1	
38	BXF7659009	Thread wiper rod shaft	1	
39	BX80754009	Washer 10	2	
40	B062020768	Retaining ring E8	1	
41	B098500574	Set screw M5X5	1	
42	BXF7664009	Spring	1	
43	BXF7669009	W-Clamp lifter roller shaft	1	
44	B098500574	Set screw M5X5	1	
45	234020025	Collar	1	
46	BX87459009	Screw M6X6	2	
47	B098600674	Set screw M4X4	4	
48	BXF9939009	Pressing foot bar	1	
49	022750001	Pressure adjustment screw	1	
50	B956514000	Vibration absorption washer	1	
51	B960603009	Washer	1	
52	022750002	Pressure adjustment nut	1	
53	234020026	Spring guiding bar	1	

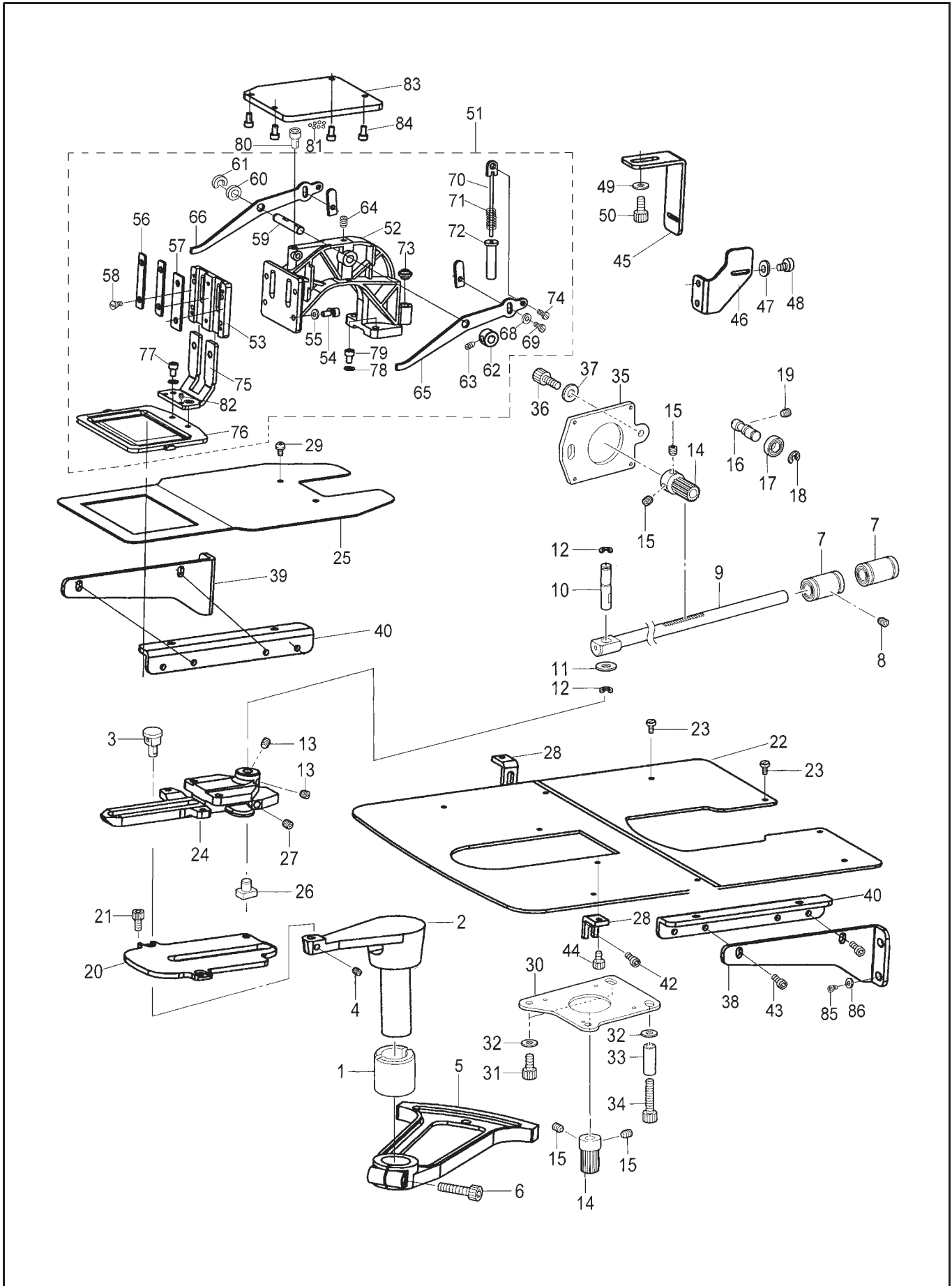
4. Feed mechanism



4. Feed mechanism

No.	Ref.No.	Description	Qt.	Note
1	BXF7747009	X-Feed lever bush	1	
2	234030002	X-Feed lever	1	
3	BXF7577009	T-Length regurator block assy	1	
4	B098500574	Set screw M5x5	1	
5	234030001	X-Feed gear	1	
6	B092047074	Bolt, Socket M6X30	1	
7	BXH5320009	Bearing10, Liner	2	
8	B098040474	Set screw M6X6	2	
9	234030005	Y-Feed rack shaft	1	
10	BXF7742009	Y-Connecting pin	1	
11	B957997009	Thrust washer	1	
12	B062040768	Retaining ring E6	2	
13	B098040474	Set screw M6X6	2	
14	BXF6913009	Feed gear	2	
15	B098040474	Set screw M6X6	4	
16	BXF7730009	Eccentric shaft	1	
17	B030402200	Ball bearing , Ardial 608ZZ	1	
18	B062020968	Retaining ring ,External C8	1	
19	B098040474	Set screw M6X6	1	
20	234030003	Feed bar support plate	1	
21	B092609074	Bolt, Socket M4X10	3	
22	234030009	Feed bar cover	1	
23	BXF7572009	Screw M4X8	4	
24	234030004	Feed bar sub	1	
25	234030008	Feed plate	1	
26	BXF7576009	T-Width regurator brock assy	1	
27	B098040474	Set screw M6X6	1	
28	234030010	Small table bracket	2	
29	B957053909	Screw SM4.37	2	
30	BXF7729009	X-Motor setting plate	1	
31	B092049874	Bolt, Socket M6X12	2	
32	B085040874	Washer M6	3	
33	BXF7302009	Collar	1	
34	B092047574	Bolt, Socket M6X35	1	
35	BXF7728009	Y-Motor setting plate	1	
36	B092049874	Bolt, socet M6X12	2	
37	B085040874	Washer M6	2	
38	23403012	Right holder	1	
39	234030011	Left holder	1	
40	234030013	Big table bracket	2	
42	B092509878	Bolt M5X12	2	
43	S150220007	Bolt M5X10	4	
44	S150220078	Bolt M4X6	6	
45	234030015	Detector fixing plate X	1	
46	234030014	Detector fixing plate Y	1	
47	B964756009	Washer 5	2	

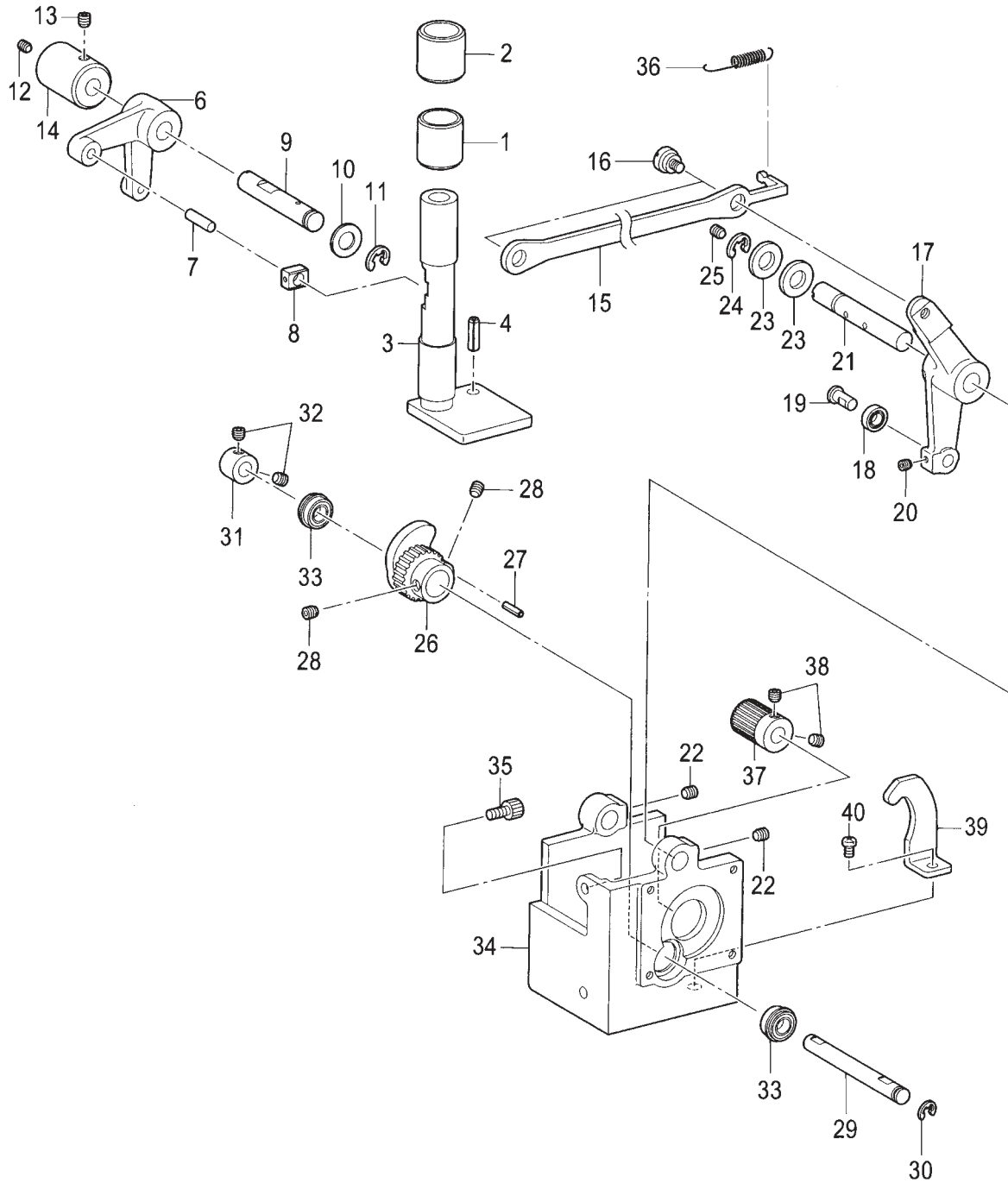
4. Feed mechanism



4. Feed mechanism

No.	Ref.No.	Description	Qt.	Note
48	S150220007	Bolt M5x10	2	
49	B085040874	Washer 6	2	
50	B092049874	Bolt M6x12	2	
51	234031000	Pressing foot arm assy	1	
52	234031001	Pressing foot arm	1	
53	234031002	Pressing foot sliding track	1	
54	B092509878	Screw M5x12	4	
55	B085050874	Washer 5	4	
56	234031003	Pressing plate C	2	
57	234031004	Pressing plate D	1	
58	BXF7684009	Screw M3.5	6	
59	234031005	Lever shaft	1	
60	B990743009	Washer 8	1	
61	B062040764	Retaining ring	1	
62	BXF7879009	Tightening ring	1	
63	B098040574	Set screw M6x5	2	
64	B098500574	Set screw M5x5	1	
65	234031006	Lever R	1	
66	234031007	Lever L	1	
67	234031008	Foot lifter adjustment plate	2	
68	B964756008	Washer 5	2	
69	B092500274	Bolt M5x8	2	
70	BXF7683009	Spring guiding lever	2	
71	B957542009	Spring A	2	
72	B957530009	Spring guiding bar	2	
73	B958322000	Spring positioning ring	2	
74	BXF9931008	Screw M5	2	
75	234031009	Pressing foot handle	1	
76	234030006	Application pressing frame	1	
77	J038440551	Bolt M5x8	2	
78	B085040874	Washer 6	2	
79	B092049474	Bolt M6x16	2	
80	BXF7682009	Short shaft	1	
81	B039079260	Steel ball 1/8"	7	
82	B098600674	Set screw M4x4	2	
83	234030007	Support plate	1	
84	B092600274	Bolt M4x8	4	
85	B092049874	Bolt M6x12	4	
86	B085040874	Washer 6	4	

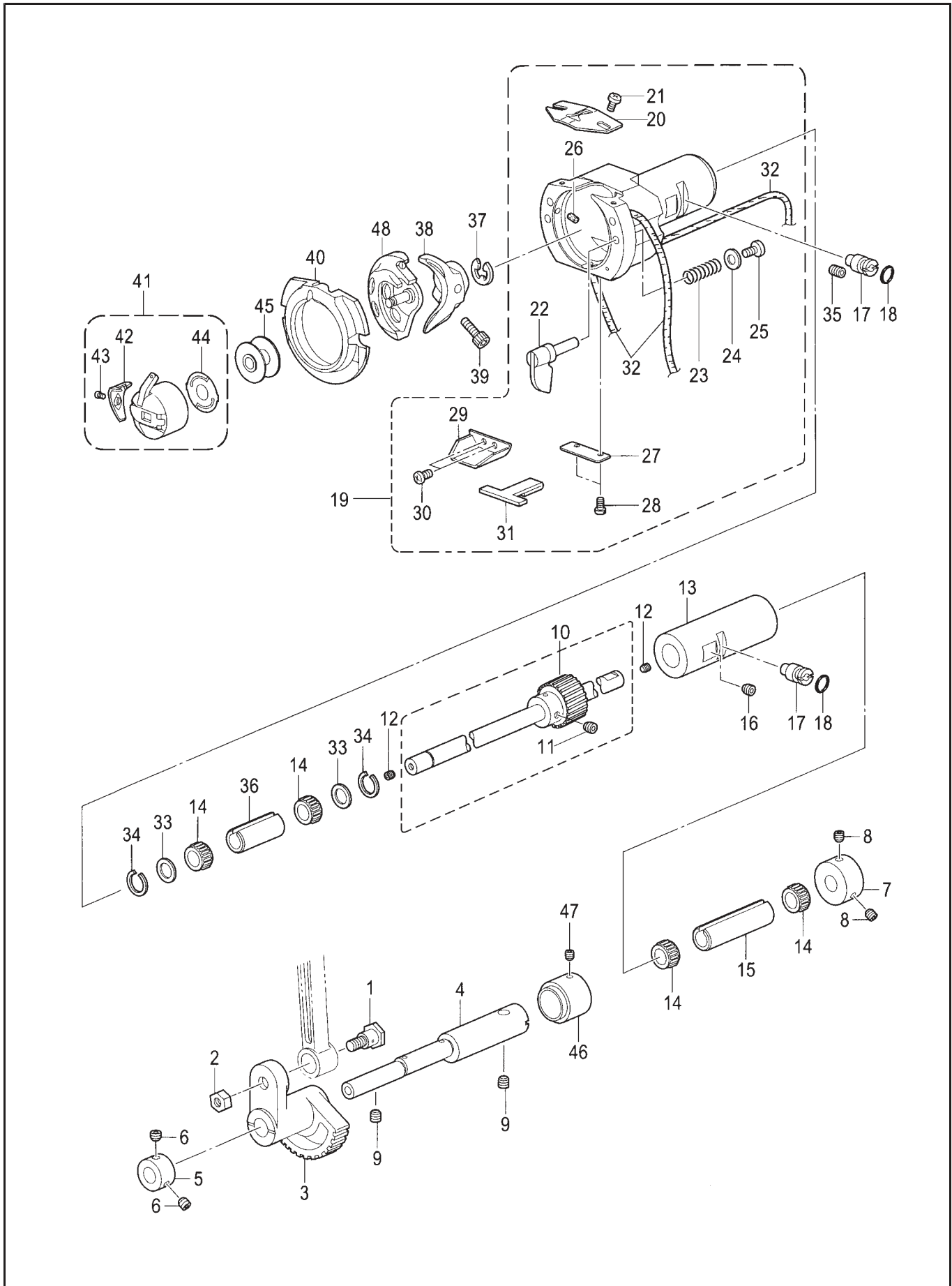
5. Work clamp lifter mechanism



5. Work clamp lifter mechanism

No.	Ref.No.	Description	Qt.	Note
1	BXF7681009	Footlifter bush D	1	
2	BXF7670009	Footlifter bush U	1	
3	234040001	Work clamp lifter plate	1	
4	B063408068	Pin, Spring roll 6x25	1	
6	BXF7676009	Lifter lever	1	
7	B958366009	Pin	1	
8	B908470009	Needle bar guide slide block	1	
9	BXF7675009	Lever shaft	1	
10	BX80754009	Washer 10	1	
11	B062020768	Retaining ring E8	1	
12	B098500574	Set screw M5x5	1	
13	B098040474	Set screw M6X6	1	
14	BXF7674009	W-Clamp lifter lever bush	1	
15	BXF7673009	Link	1	
16	BXF7672009	Link shoulder screw	2	
17	BXF7671009	Drive lever W-Clamp	1	
18	B030414200	Ball bearing R-696ZZ	1	
19	BXF7669009	W-Clamp lifter roller shaft	1	
20	B098500574	Set screw M5x5	1	
21	BXF7668009	Cam lever shaft	1	
22	B098040474	Set screw M6X6	2	
23	BX80754009	Washer 10	2	
24	B062020768	Retaining ring E8	1	
25	B098500574	Set screw M5x5	1	
26	BXF7667009	Cam gear	1	
27	B063709068	Pin, spring 3x10	1	
28	B098040474	Set screw M6X6	2	
29	BXF7666009	Cam shaft	1	
30	B062040768	Retaining ring E6	1	
31	BXF7879009	Set screw collar	1	
32	B098040574	Set screw M6X5	2	
33	B030422250	Ball bearing ,Radial 688ZZNR	2	
34	BXF7665009	Motor bracket	1	
35	B092049874	Bolt,socket M6X12	2	
36	213300001	Spring	1	
37	BXF7303009	Gear 16	1	
38	B098040574	Set screw M6X5	2	
39	BXF6038009	Stopper	1	
40	B048049094	Bolt,socket M6X10	1	

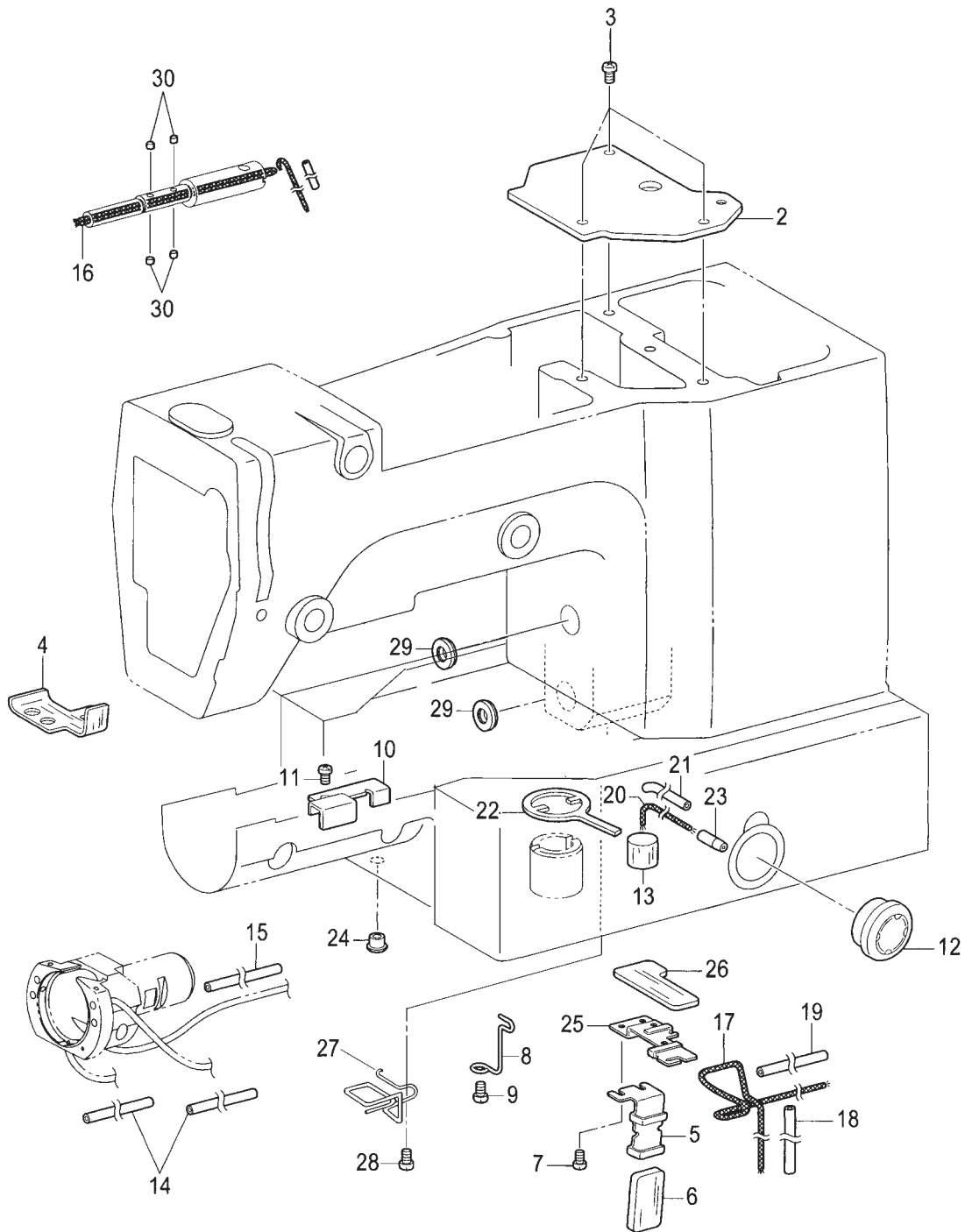
6. Lower shaft mechanism



6. Lower shaft mechanism

No.	Ref.No.	Description	Qt.	Note
1	BXF7884009	Shoulder screw M6	1	
2	BXF7883009	Nut M6	1	
3	BXF7882009	Rock gear	1	
4	BXF6042909	Rock gear shaft	1	
5	BXF7879009	Set screw collar	1	
6	B098040574	Set screw M6X5	2	
7	BXF7877009	Set screw collar	1	
8	BX87459009	Set screw M6X6	2	
9	B098040474	Set screw M6X6	2	
10	BXF7876009	Lower shaft assy	1	
11	B098500574	Set screw M5X5	1	
12	B098600674	Set screw M4X4	2	
13	BXF7873009	Lower shaft bush	1	Optiona
14	BXF6923009	Needle bearing	4	Optiona
	BXF6922009	Needle bearing	4	Optiona
	BXF6921009	Needle bearing	4	Optiona
	BXF6910009	Needle bearing	4	
15	BXF7837009	Lower shaft collar	1	
16	B098040474	Set screw M6X6	1	
17	BXF7872909	Pin	2	
18	B029007430	O ring PW3	2	
19	234051000	Shuttle race base assy	1	
20	BX08681809	Shuttle race thread	1	
21	S150217009	Screw M3X4	2	
22	BXF7869009	S-Race base setting claw	2	
23	B958426909	Compression spring	2	
24	B084070974	Washer S3	2	
25	B048700494	Screw M3X6	2	
26	B957050000	S-Race base felt	2	
27	BXF7868909	Felt holder	1	
28	S150217009	Screw M3X4	2	
29	BXF7836909	Felt holder	1	
30	S150217009	Screw M3X4	2	
31	BXF7835009	Felt T	1	
32	BX51224009	Oil Thread L=380	3	
33	BXF7834009	Washer	2	
34	213420002	Wire ring 12	2	
35	B098040474	Set screw M6X6	1	
36	BXF7832009	Collar	1	
37	B062030768	Retaining ring E7	1	
38	BXF7826009	Driver	1	
39	B092509878	Bolt,socket M5X12	1	
40	※	Shuttle race base	1	
41	B951490609	Bobbin case assy	1	
42	B956771909	Tension spring	1	
43	B956769009	Screw	1	
44	B951498009	Anti-spin spring	1	
45	B951497059	Bobbin	1	
46	BXF7827009	Set screw collar	1	
47	B098500574	Set screw M5x5	1	
48	※	Shuttle hook	1	

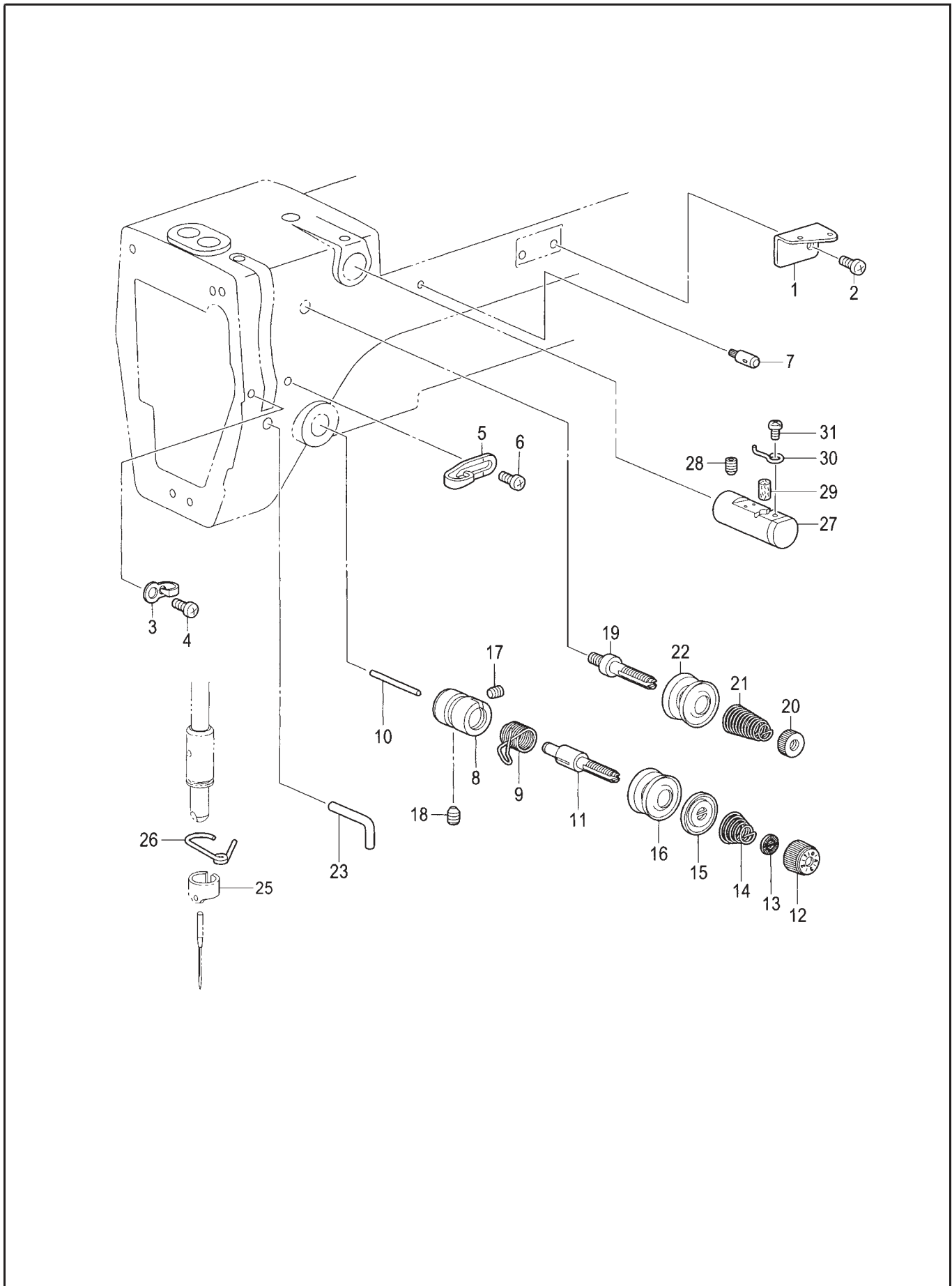
7. Lubrication



7. Lubrication

No.	Ref.No.	Description	Qt.	Note
1	BXF7866009	Set screw	1	
2	BXF7865009	Crank cover	1	
3	B048040294	Screw M6X8	3	
4	BXF7831009	Felt	1	
5	BXF7507809	Lower shaft wick support	1	
6	BXF7506809	Lower shaft gear felt	1	
7	B048600494	Screw M4X6	2	
8	BXF7828009	Cord holder	1	
9	B048040294	Screw M6X8	1	
10	BXF7861009	Oil tube support	1	
11	B048600494	Screw M4X6	1	
12	213501000	Oil gauge window	1	
13	BXF7731009	Felt	1	
14	BX50581000	Oil tube L=300	2	
15	BX82695000	Oil tube L=225	1	
16	BX65261000	Wick 4x4 L=320	1	
17	B957188009	Wick L=510	1	
18	BXF9708009	Oil tube L=120	1	
19	BX54233000	Oil tube L=150	1	
20	BX76098000	Wick 4X4 L=220	1	
21	B967439000	Oil tube L=150	1	
22	BXF7823009	Felt	1	
23	BX03777009	Oil feeding pipe, S	1	
24	B964020000	Cord bush	1	
25	BXF7864009	Gear wick support	1	
26	BXF7820009	Gear felt	1	
27	BXF6648009	Cord holder	1	
28	B048040294	Screw M6X8	1	
29	BXF6888009	Oil cork	1	
30	B957050000	S-race base felt	4	

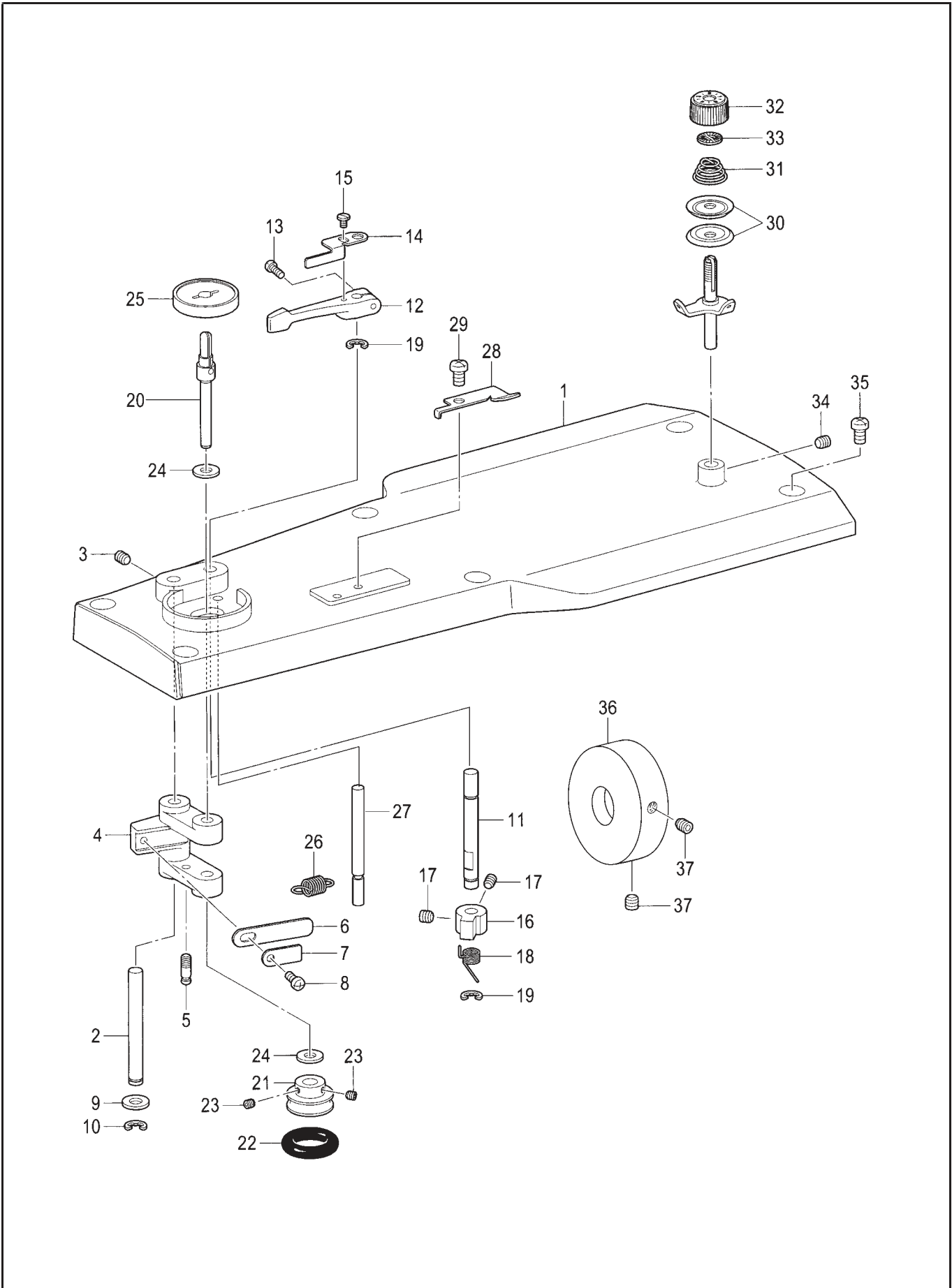
8. Threading mechanism



8. Threading mechanism

No.	Ref.No.	Description	Qt.	Note
1	BXF7850009	Arm thread guide , A	1	
2	B048500494	Screw M5X6	1	
3	BXF6777009	Arm thread guide , B	1	
4	B048500494	Screw M5X6	1	
5	BXF7858009	Arm thread guide , C	1	
6	B048500494	Screw M5X6	1	
7	B957061009	Upper thread guide stud	1	
8	BXF7856009	Tension bracket	1	
9	※	Thread take-up spring	1	
10	BX98411000	Tension release pin	1	
11	BXF7855009	Tension stud	1	
12	BX79078009	Tension nut	1	
13	BX98669009	Washer	1	
14	※	Tension spring	1	
15	B951205009	Tension disc presser	1	
16	B965664009	Disc ,Tension	2	
17	B900608006	Set screw SM3.57	1	
18	BXF9881909	Set screw M6X6	1	
19	BXF7854009	Tension stud	1	
20	B900974009	Tension nut	1	
21	BXF6964009	Sub tension spring	1	
22	B965664009	Disc ,tension	2	
23	B951886009	Thread guide ,Arm	1	
25	BXF7475009	Needle bar thread guide , B	1	
26	BXF7852009	N-bar bush thread guide	1	
27	B952229009	Needle cooler assy	1	
28	B098040474	Set screw M6X6	1	
29	B958227000	Felt 8X15.5	1	
30	B958226009	Needle cooler thread guide	1	
31	B048430698	Screw SM3.57-40X4	1	

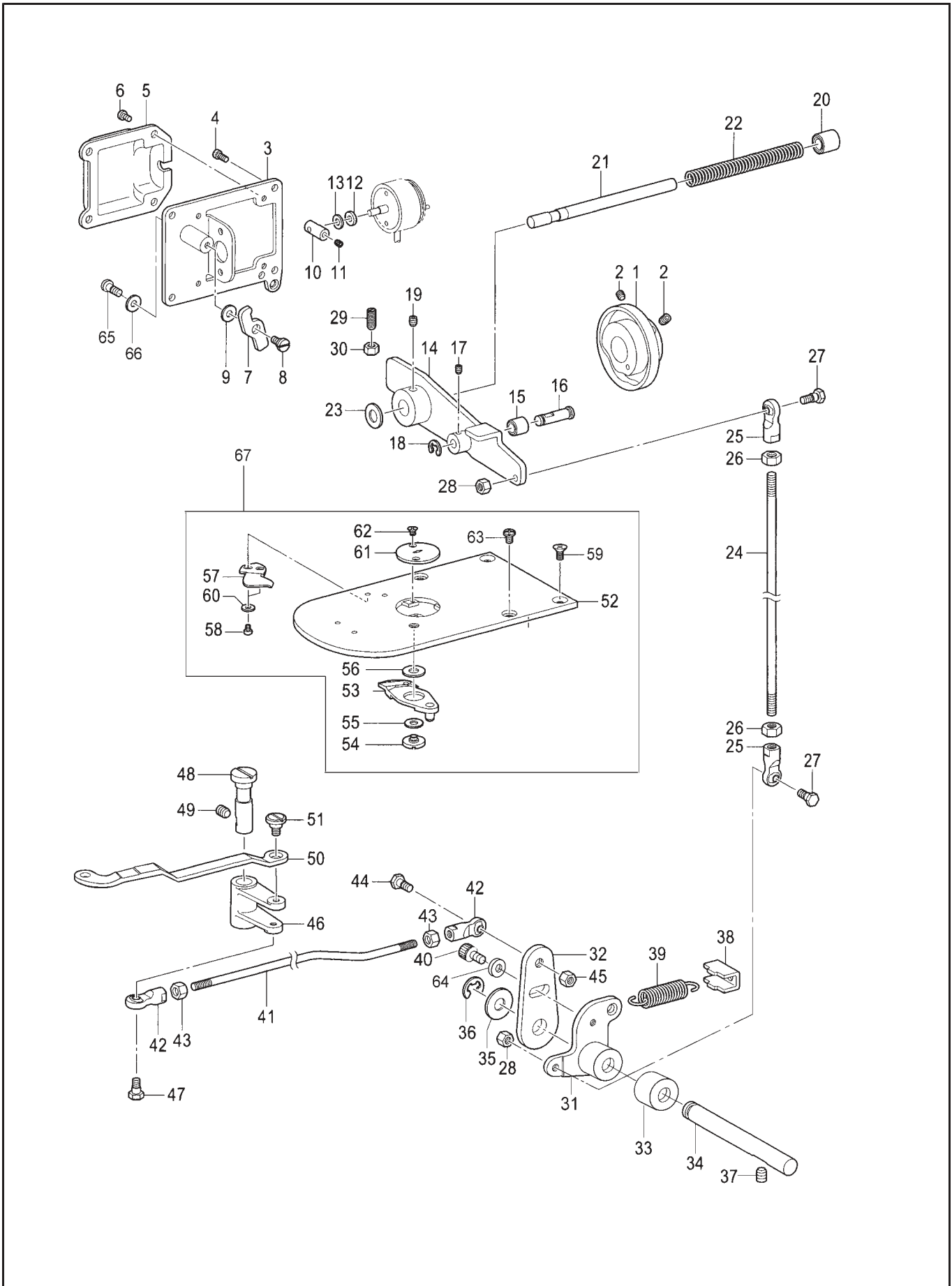
9. Bobbin winder mechanism



9. Bobbin winder mechanism

No.	Ref.No.	Description	Qt.	Note
1	BXF7821009	Top cover	1	
2	BXF7810009	Shaft ,Bw-lever	1	
3	B098500574	Set screw M5X5	1	
4	BXF7819009	Bobbin winder lever	1	
5	BXF6939009	Spring hook	1	
6	B958174009	Plate spring	1	
7	B958173009	Washer	1	
8	B048750494	Screw M3.5X6	1	
9	B951624009	Washer	1	
10	B062050768	Retaining ring E5	1	
11	BXF7817009	Stud,B-winder claw	1	
12	BXF9126009	Bobbin presser arm	1	
13	B048609894	Screw M4X12	1	
14	BXF7816009	Bobbin presser	1	
15	BX87692008	Screw M4X4.5	1	
16	BXF7815009	Claw,B-winder	1	
17	B098600674	Set screw M4X4	2	
18	BX90672009	Spring	1	
19	B062050768	Retaining ring E5	2	
20	BXF7814009	Bobbin winder shaft	1	
21	BXF7813009	Wheel, B-winder	1	
22	B980662009	Bobbin winder rubber band	1	
23	B098600674	Set screw M4X4	2	
24	B085040974	Washer S6	2	
25	BXF9122009	Bobbin support	1	
26	BX90842009	Spring	1	
27	BXF7812009	Stop shaft	1	
28	BXF7811009	Knife	1	
29	B048500494	Screw M5X6	1	
30	B965664009	Disc,Tension	2	
31	B900609089	Tension spring	1	
32	BX79078009	Tension nut	1	
33	BX98669009	Washer	1	
34	B098500574	Set screw M5X5	1	
35	B048049094	Screw M6X10	6	
36	234080001	Driving wheel	1	
37	BX87459009	Set screw M6X6	2	

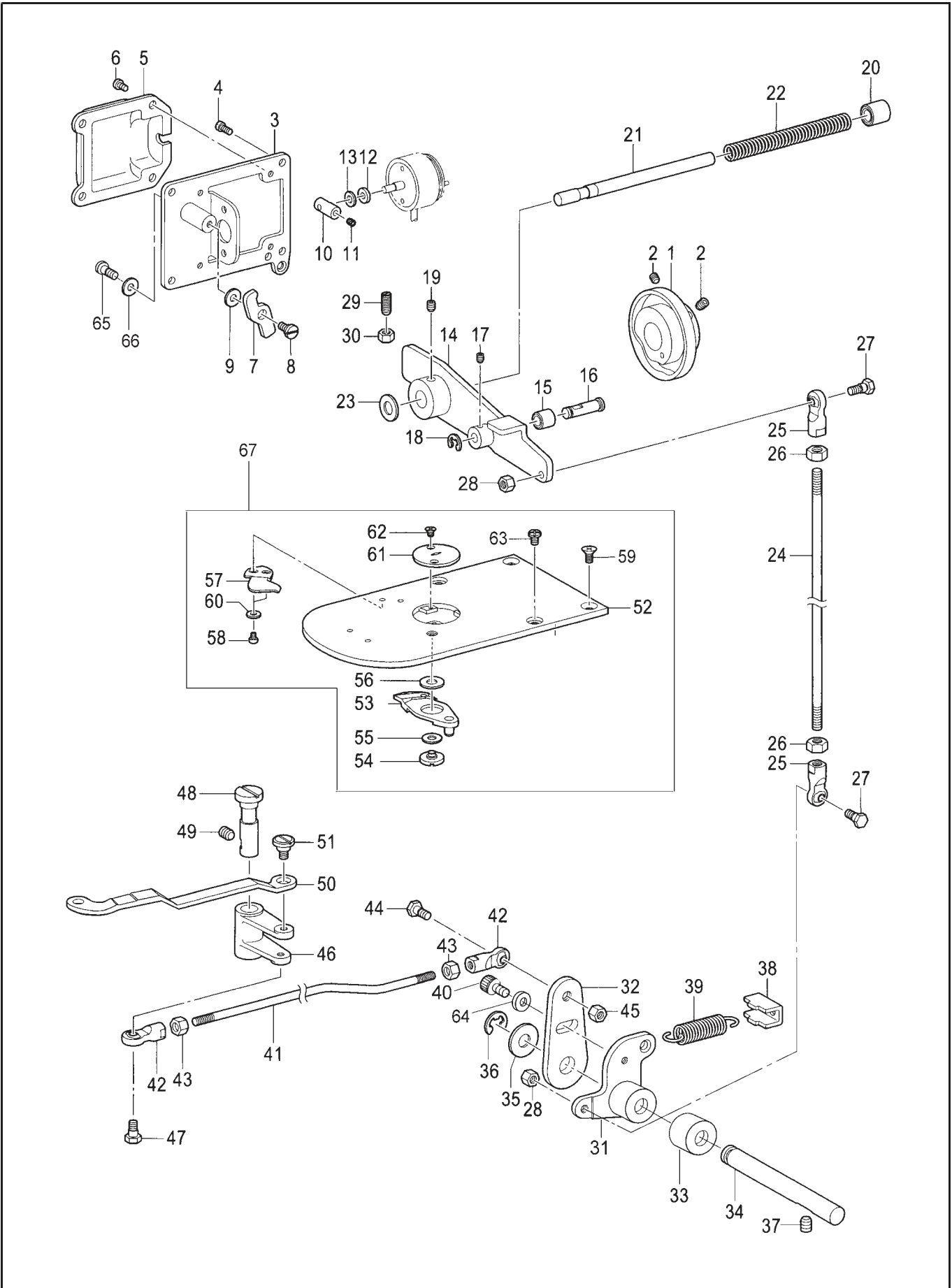
10. Thread trimmer mechanism



10. Thread trimmer mechanism

No.	Ref.No.	Description	Qt.	Note
1	213700005	Thread trimmer cam	1	
2	BX87459009	Set screw M6X6	2	
3	BXF7706009	Setting plate	1	
4	B048600294	Screw M4x8	4	
5	BXF7707009	Tr-solenoid cover	1	
6	B040600594	Screw M4x5	4	
7	BXF7705009	Pushing lever, Driving lever	1	
8	BXF7704009	Shoulder screw 7-3	1	
9	BX71410089	Washer	1	
10	BXF7703009	Solenoid lever	1	
11	B098600674	Set screw M4x4	1	
12	B956511000	Solenoid cushion	1	
13	BX08458009	Washer	1	
14	BXF7701009	Tr-driving lever	1	
15	BXF7790009	Collar , Tr-trimmer	1	
16	BXF7799009	Collar shaft	1	
17	B098600674	Set screw M4x4	1	
18	B062060768	Retaining ring E4	1	
19	BX87459009	Set screw M6x6	1	
20	B879039009	Bush 8x15	1	
21	BXF7798009	Guide shaft	1	
22	BXF7797009	Spring	1	
23	B956514000	Cushion	1	
24	BXF7795009	Thread trimmer rod V	2	
25	BX78645009	Ball joint assy	2	
26	B089040904	Nut M6	2	
27	BX78648009	Shoulder screw M6	2	
28	B089040704	Nut M6	1	
29	BX85635009	Set screw M6x19	1	
30	B089040904	Nut M6	1	
31	BXF6564009	Thread trimmer lever V	1	
32	BXF7793009	Thread trimmer lever H	1	
33	BXF7792009	Spacer ring	1	
34	BXF7791009	Shaft,Tr-trimmer lever	1	
35	B957514009	Washer 8	1	
36	B062030768	Retaining ring E7	1	
37	B098040474	Set screw M6x6	1	
38	BXF7780009	Spring	1	
39	BXF7789009	Spring ,Extension	1	

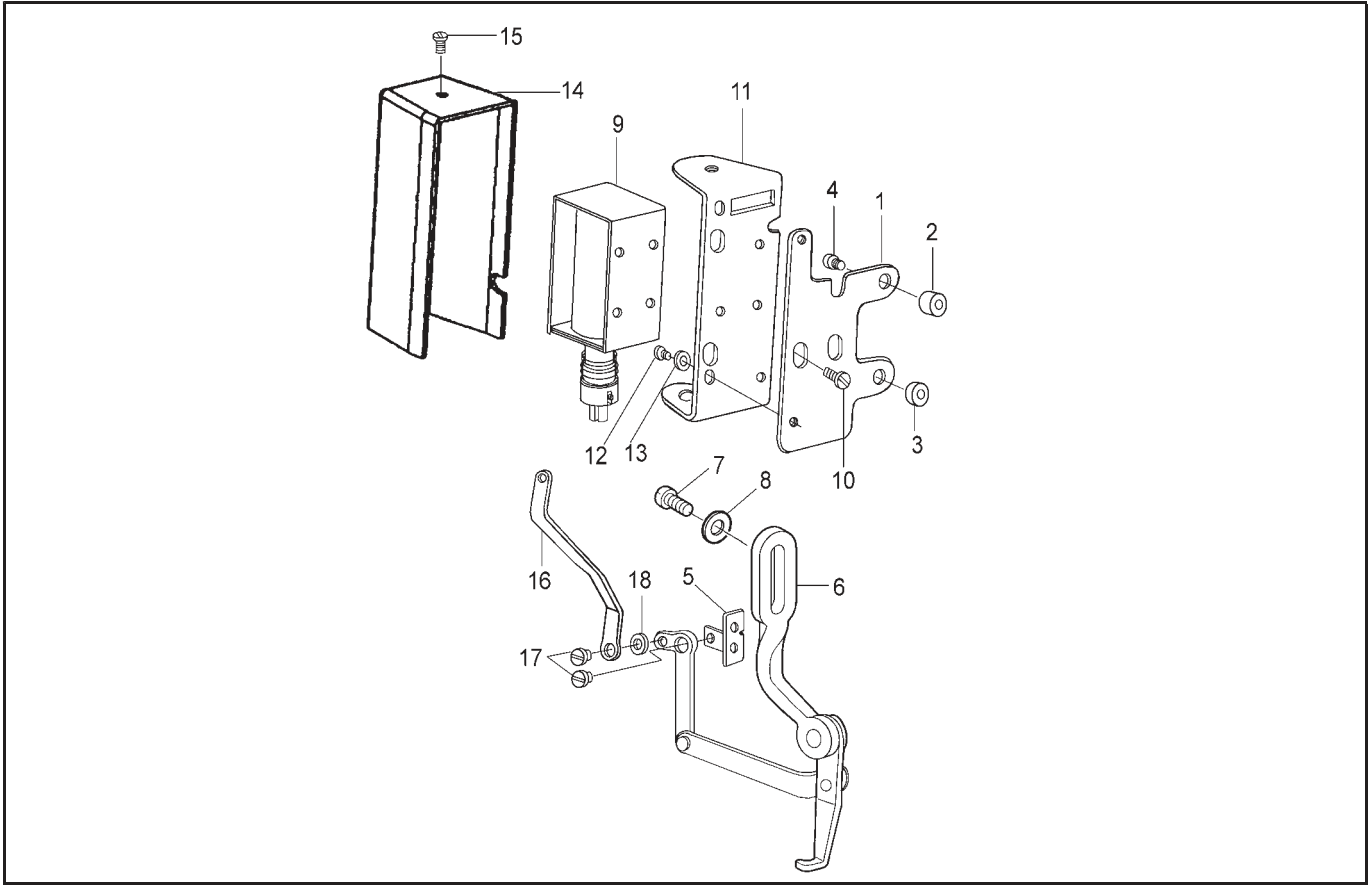
10. Thread trimmer mechanism



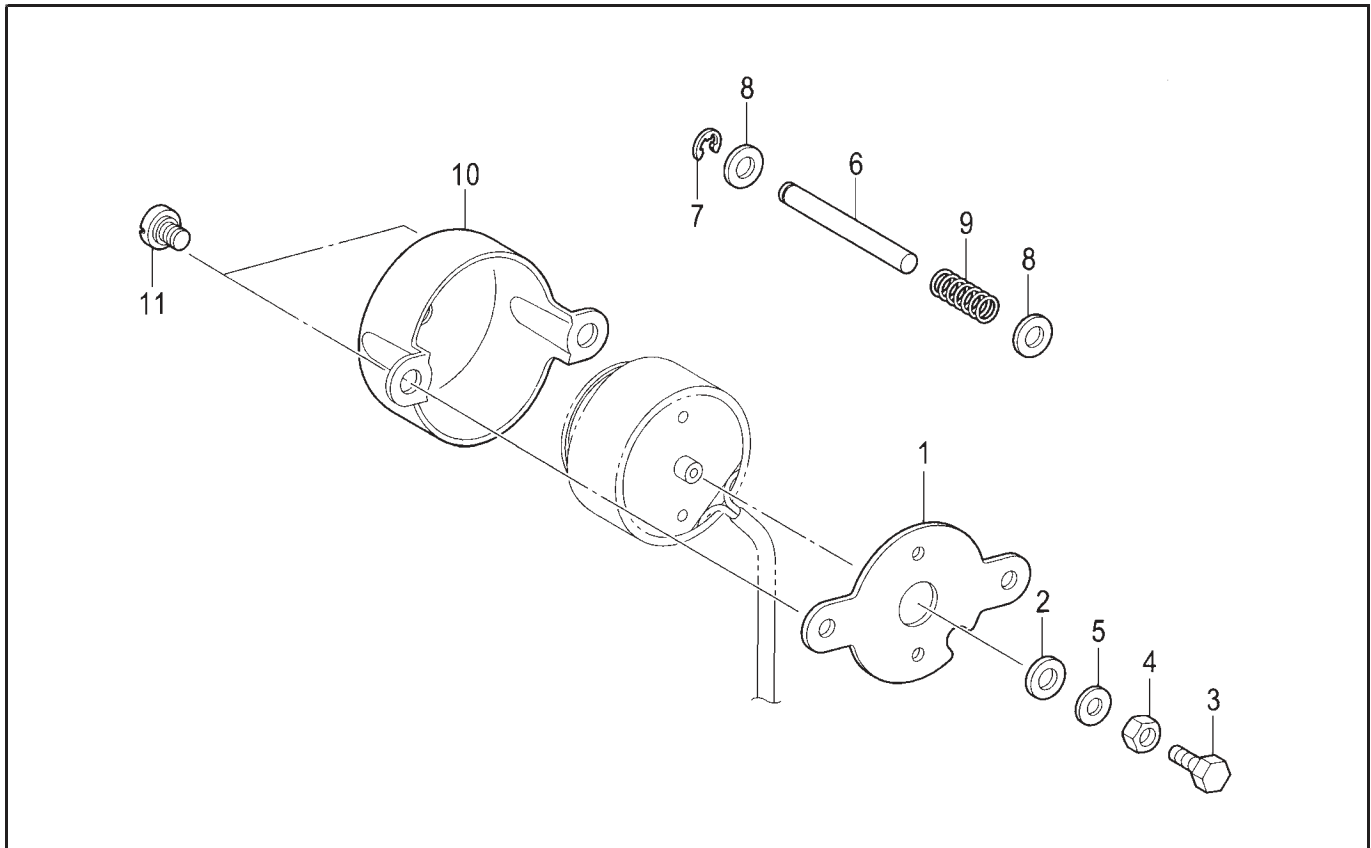
10. Thread trimmer mechanism

No.	Ref.No.	Description	Qt.	Note
40	S150220007	Bolt ,Socket M5x10	1	
41	BXF7787009	Thread trimmer rod H	1	
42	BX78645009	Ball joint assy	2	
43	B089040904	Nut M6	2	
44	BX78648009	Shoulder screw M6	1	
45	B089040704	Nut M6	1	
46	BXF7786009	Moving knife lever	1	
47	BXF7785009	Shoulder screw 6.35-6	1	
48	BXF7784009	Shaft,M-knife lever	1	
49	B098040474	Set screw	1	
50	234090001	M-knife connecting plate	1	
51	BXF7754009	Shoulder screw 6-2.2	1	
52	234090002	Needle plate SC	1	
53	BXF7454009	Moving knife assy	1	
54	BXF7777009	Shoulder screw	1	
55	BX003305009	Washer	1	
56	BXF4713009	Washer 0.2	1	
	BXF7776009	Washer 0.3	1	
	BXF4712009	Washer 0.4	1	
57	BXF7452009	Fixed knife	1	
58	B048700694	Screw M3x4	2	
59	BX85790909	Screw M4	2	
60	B085070874	Washer	2	
61	※	Needle holder plate	1	
62	B900740007	Screw SM2.38	2	
63	BXF7572009	Screw M4x8	2	
64	B964756009	Washer 5	1	
65	S150220001	Bolt M5x8	1	
66	S150632004	Washer ,big 5	1	
67	234092000	Needle plate assy	1	

11. Thread wiper mechanism



12. Tension release mechanism



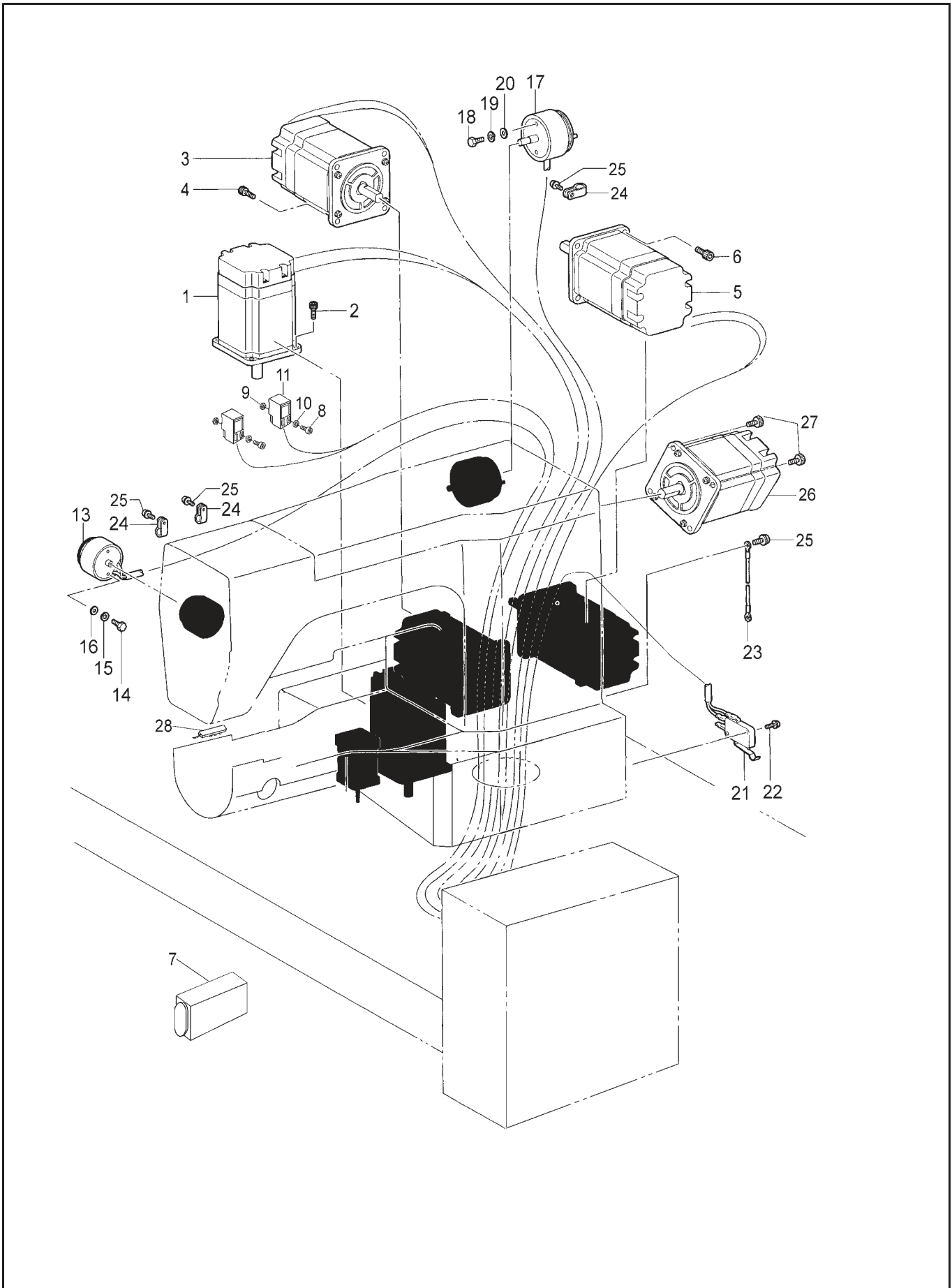
11. Thread wiper mechanism

No.	Ref.No.	Description	Qt.	Note
1	234100001	Solenoid board	1	
2	234100002	block U	1	
3	234100003	Block U	1	
4	J01540020	Hexagonal screw M5x16	2	
5	234100006	Fixing bracket	1	
6	234101000	Link lever assy for thread wiping	1	
7	B048609004	Screw M4x10	2	
8	B085060874	Washer	2	
9	234130005	Solenoid assy for thread wiping	1	
10	S8A3101005	Screw M3x6	3	
11	BX85661889	Fixing plate for solenoid	1	
12	B048600494	Screw M4x6	2	
13	B085060874	Washer 4	2	
14	BX77490989	Solenoid cover	1	
15	B040600594	Screw M4x5	1	
16	234100004	Driven lever for thread wiping	1	
17	234100005	Set screw 6-2	2	
18	B085060874	Washer 4	1	

12. Tension release mechanism

No.	Ref.No.	Description	Qt.	Note
1	BXF7765009	Fixing plate for solenoid	1	
2	B956511000	Solenoid cushion	1	
3	B093609095	Bolt , M4x10	1	
4	B089600704	Nut M4	1	
5	B085060874	Washer 4	1	
6	BXF7763009	Tension release bar	1	
7	B062060768	Retaining ring E4	1	
8	B085050874	Washer 5	2	
9	BXF7762009	Spring	1	
10	BXF7761009	Solenoid cover	1	
11	BXF7750009	Shoulder screw	2	

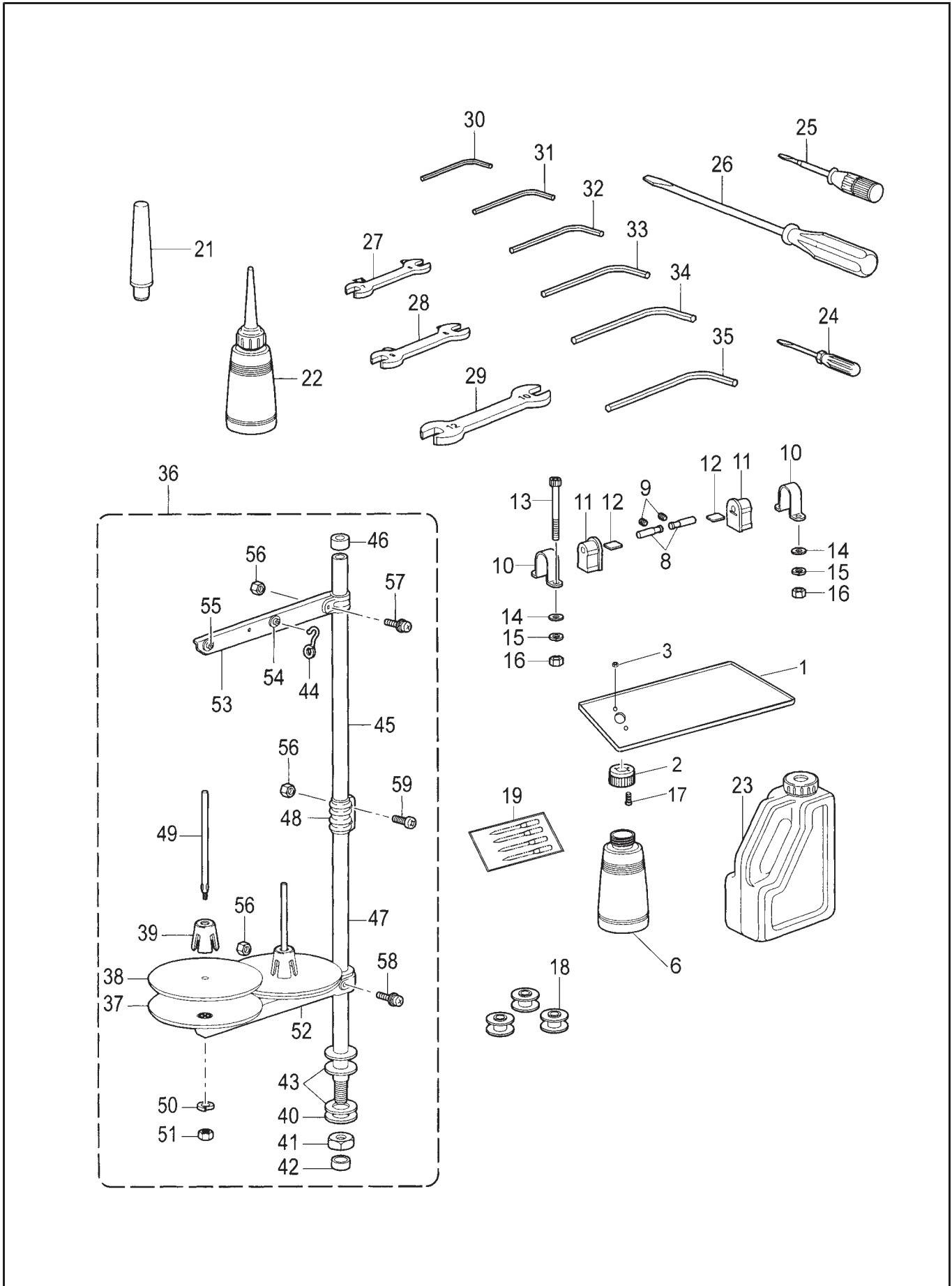
13. Control mechanism



13. Control mechanism

No.	Ref.No.	Description	Qt.	Note
1	213907002	Feeding motor assy X	1	
2	B092609074	Bolt M4X10	4	
3	213907003	Feeding motor assy Y	1	
4	B092600274	Bolt M4X8	4	
5	213907004	Foot lifting motor assy	1	
6	B092609074	Bolt M4X10	4	
7	234131000	Switch assm	1	
8	S150220069	Screw M3x25	4	
9	S120501001	Nut M3	4	
10	B085070874	Washer 3	4	
11	234132000	Detector for application feeding	1	
13	213631000	Tension release solenoid assy	1	
14	B093600208	Bolt M4x8	2	
15	B085060874	Washer, Plain 4	2	
16	S150630002	Washer, Spring 4	2	
17	213701000	Thread trimmer solenoid assy	1	
18	B093600208	Bolt M4x8	2	
19	B085060874	Washer, Plain 4	2	
20	S150630002	Washer, Spring 4	2	
21	213809000	Safety switch assy	1	
22	B0F6709605	Screws M3x14DA	2	
23	234130010	Grounding line	1	
24	213000021	Cord holder (M)	3	
25	B0F5609004	Screws M4x10DB	4	
26	213907001	Main shaft motor assy	1	
27	S150220018	Screw M5x20	4	
28	198410000	Lamp	1	

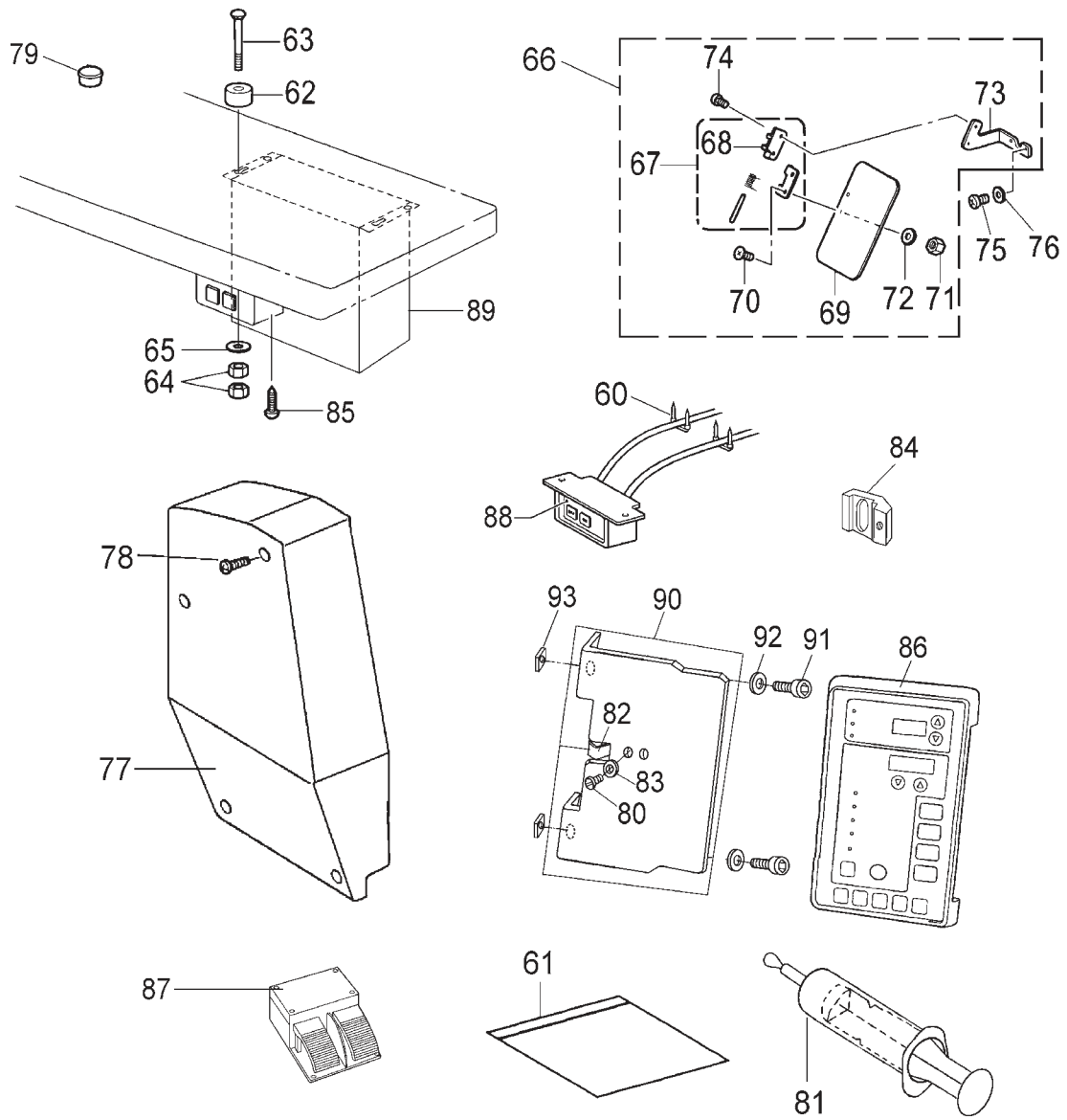
14. Accessories



14. Accessories

No.	Ref.No.	Description	Qt.	Note
1	234F02000	Oil pan assy	1	
2	B956643009	Oiler cap	1	
3	S120501001	Nut M3	2	
6	B996624008	Oiler	1	
8	BXF7726009	Pin	2	
9	B098040474	Screw M6x6	2	
10	BXF7725009	Hinge holder	2	
11	BXF7715009	Rubber cushion	2	
12	BXF7718009	Spacer	2	
13	J03840718	Bolt M6x75	4	
14	B085040774	Washer, Plain 6	4	
15	B082040864	Washer, Spring 2-6	4	
16	B089040904	Nut M6	4	
17	S150220022	Screw M3x10	2	
18	B951497059	Bobbin	3	
19	※	Needle assy	1	
21	BXF7720009	Head rest	1	
22	B996627008	Oiler assy	1	
23	BX55447009	Oil tank assy	1	
24	W050102048	Screw-driver 1.9 X52	1	
25	W050102063	Screw-driver 3.4 X70	1	
26	W050102050	Screw-driver 5.5X190	1	
27	B903331009	Wrench 6X7	1	
28	B900223009	Wrench 8X9	1	
29	B903320009	Wrench 10X12	1	
30	W050102033	Hexagonal wrench 1.5	1	
31	W050102034	Hexagonal wrench 2	1	
32	W050102040	Hexagonal wrench 2.5	1	
33	W050102035	Hexagonal wrench 3	1	
34	W050102036	Hexagonal wrench 4	1	
35	W050102037	Hexagonal wrench 5	1	
36	BX08347608	Cotton stand assy	1	
37	BX59827009	Spool stand base	2	
38	B950928000	Spool mat	2	
39	BX59828909	Spool cushion	2	
40	B950804008	Washer, Plain 16	1	
41	BX72462009	Nut	1	
42	B950936000	Column cap	1	
43	BX09005000	Rubber washer	2	
44	BX08363909	Spring	1	
45	B950938007	Column pipe	1	
46	B950936000	Column cap	1	
47	B954998007	Column pipe	1	
48	B950937007	Column joint	1	
49	B950931008	Spool shaft	2	
50	B082050864	Washer, Spring 2-5	2	
51	B089500904	Nut, M5	2	
52	BX08332008	Spool holder	1	
53	BX08323008	Thread hanger	1	
54	B950927000	Thread hanger base	2	
55	B968110009	Thread bush	2	
56	B089500904	Nut M5	4	
57	BX73072009	Screw M5X14	1	
58	BX73073009	Screw M5X32	1	
59	B048509604	Screw M5X14	2	

14. Accessories



14. Accessories

No.	Ref.No.	Description	Qt.	Note
60	B800910009	Staple	7	
61	B988119009	Accessory bag	1	
62	BX54728000	Rubber washer	4	
63	S150220068	Bolt M6X55	4	
64	B089040904	Nut M6	8	
65	B085040774	Washer, Plain 6	8	
66	213901000	Eye guard assy	1	
67	BX66627009	Hinge assy	1	
68	BX73491009	Eye guard assy	1	
69	BX66625009	Eye guard	1	
70	B049700294	Screw M3X8	2	
71	B089700904	Nut M3	2	
72	B084070874	Washer, Plain 3	2	
73	BXF6906009	Eye guard holder	1	
74	B048700504	Screw M3X5	2	
75	B048600494	Screw M4X6	2	
76	B084060974	Washer, Plain 4	2	
77	213000005	Back cover	1	
78	B048049094	Screw M6X10	4	
79	B906289009	Rubber cap 10.5	4	
80	B048700694	Screw M3x 4	2	
81	WWW8417009	Grease unit	1	
82	213000009	Spring plate	1	
83	B085070874	Washer 3	2	
84	234020026	Joint block	1	
85	S150241013	Wood screw 4x16	2	
86	213907009	Operation panel assy	1	
87	234F01000	Foot switch assy	1	
88	213907012	Power supply switch assy	1	
89	234F03001	Control box	1	
90	213000008	Control box installation board	1	
91	B092049874	Bolt M6x12	2	
92	B085040874	Washer, Plain 6	2	
93	213000010	Rubber cushion	2	

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● Besides adjusting stitch, please laypeople don't debug or maintain.

● Parts are subject to changes in design without prior notice.

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