





TYPICAL

Thank you very much for buying 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

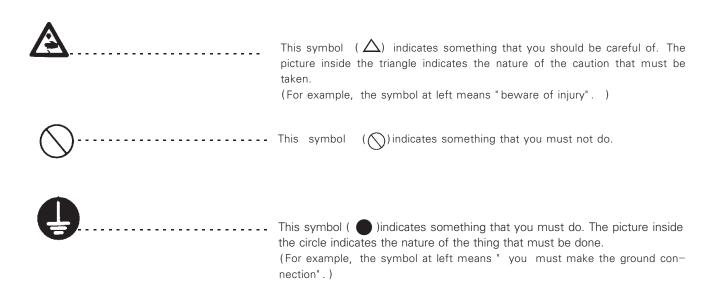
This instruction manual and the indications and symbols that are used on the machine itself are provided in order to ensure safe operation of this machine and to prevent accidents and injury to yourself or other people. The meaning of these indications and symbols are given below.

Indications



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

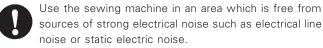


2. Notes on safety



CAUTION

Environmental requirements



Sources of strong electrical noise may cause problems with correct operation.

Any fluctuations in the power supply voltage should be within ±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 power 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.

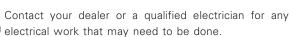
The relative humidity should be within the range of 45% to 85% during use, and no dew formation should occur in any devices.

Excessively dry or humid environments and dew formation may cause problems with correct operation.

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





The sewing machine weighs approximately 43 kg.
The installation should be carried out by two or more people.

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

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.

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

Use both hands to hold the machine head when tilting it back or returning it to its original position. If only one hand is used, the weigh of the machine head may cause your hand to slip, and your hand may get caught.

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 diarrhea.

Keep the oil out of the reach of children.



CAUTION

Sewing



The sewing machine should only be used by operators who have received the necessary training in safe use beforehand.



Attach all safety devices before using the sewing machine. If the machine is used without these devices attached, injury may result.



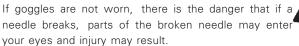
The sewing machine should not be used for any applications other than sewing.



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.



Be sure to wear protective goggles when using the machine





Use both hands to hold the machine head when tilting it back or returning it to its original position. If only one hand is used, the weight of the machine head may cause your hand to slip, and your hand may get caught.



Turn off the power switch at the following times. The motor will keep turning even after the power is switched off as a result of the motor's inertia. Wait until the motor stops fully before starting work. The machine may operate if the treadle is depressed by mistake, which could result in injury.

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



If an error occurs in machine, or if abnormal noises or smells are noticed, immediately turn off the power switch. Then contact your nearest dealer or a qualified technician.



If the machine develops a problem, contact your nearest dealer or a qualified technician.



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

Cleaning



Turn off the power switch before carrying out cleaning. The motor will keep turning even after the power is switched off as a result of the motor's inertia. Wait until the motor stops fully before starting work. The machine may operate if the treadle is depressed by mistake, which could result in injury.



Be sure to wear protective goggles and gloves when handing 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 diarrhea.



Use both hands to hold the machine head when tilting it back or returning it to its original position. If only one hand is used, the weight of the machine head may cause your hand to slip, and your hand may get caught.

Keep the oil out of the reach of children.

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

A CAUTION



Moving parts may cause injury.

Operate with safety devices. Turn off main switch before threading, changing bobbin and needle, cleaning etc.

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.

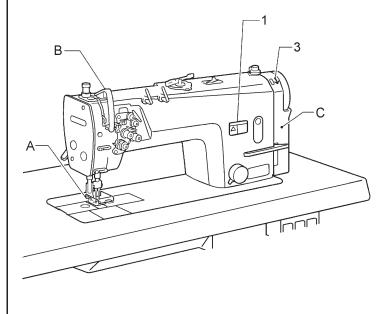
3

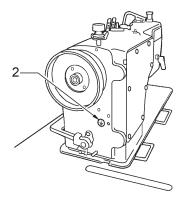


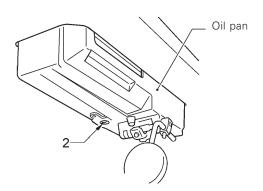
Direction of operation

safety devices:

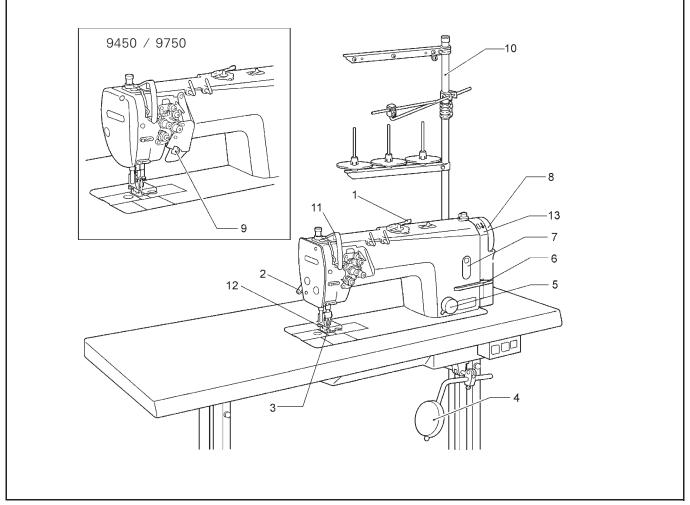
- (A) Finger guard
- (B) Thread take up cover
- (C) Belt cover







1. NAMES OF MAJOR PARTS



- (1) Bobbin winder
- (2) Lifting lever
- (3) Presser foot
- (4) Knee lifter assembly
- (5) Stitch length dial

Safety devices

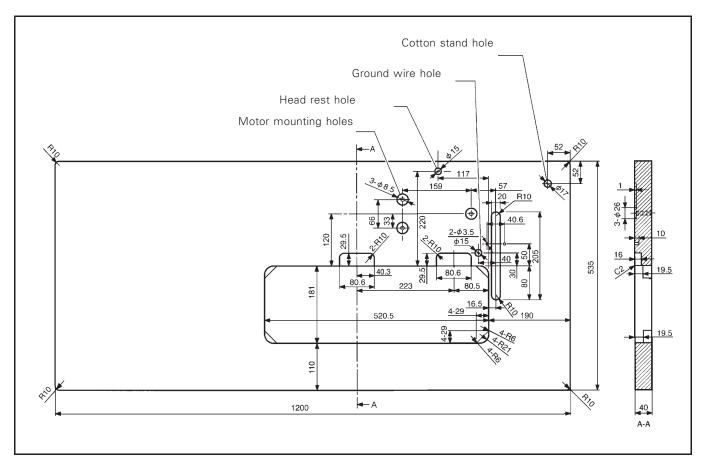
- (11) Thread take up cover
- (12) Finger guard
- (13) Belt cover

- (6) Reverse lever
- (7) Oil gauge window
- (8) Machine pulley
- (9) Stop lever(9450/9750)
- (10) Cotton stand

2. TABLE AND MOTOR

■ Table processing diagram

- The top of the table should be 40 mm in thickness and should be strong enough to hold the weight and with-stand the vibration of the sewing machine.
- Drill holes as indicated in the illustration below.



Motor





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.

<Motor>

- Use one of the clutch motors given in the table at right as the motor.
- Refer to the instruction manual for the motor for details on installing and using the motor.

| Power | Motor |
|--------------|------------------|
| Single-phase | 2-pole 400wmoter |
| Single-phase | 2-pole 400wmoter |

<Motor pulley and V-belt>

select the correct motor pulley and V-belt by referring to the table below to suit the power frequency of your area.

| Sewing speed | Frequency | Motor pulleyOuter diameter | V-belt |
|--------------|-----------|----------------------------|--------|
| 4 000rpm | 50Hz | 90 | 43 |
| 4,000rpm | 60Hz | 75 | 42 |
| 3,500rpm | 50Hz | 80 | 42 |
| | 60Hz | 60 | 42 |
| 3,000rpm | 50Hz | 65 | 42 |
| | 60Hz | 55 | 41 |

3.INSTALLATION



CAUTION



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



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



The sewing machine weighs approximately 43kg. The installation should be carried out by two or more people.



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



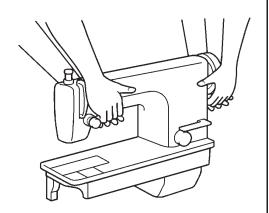
Use both hands to hold the machine head when tilting it back or returning it to its original position. If only one hand is used, the weight of the machine head may cause your hand to slip, and your hand may get caught.



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.

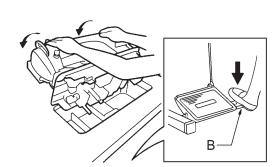
Carrying the machine

- The machine should be carried by the arm by two people as shown in the illustration.
- * Make sure that the machine pulley does not turn.



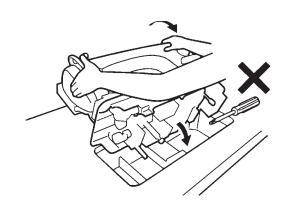
Tilting back the machine head

Hold section (B) with your foot so that the table does not move, and then push the arm with both hands to tilt back the machine head.



Returning the machine head to the upright position

- Clear away any tools, etc. which may be near the table holes.
- 2. While holding the face plate with your left hand, gently return the machine head to the upright position with your right hand.



3-1.Installation

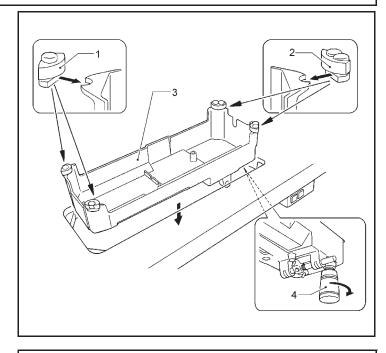
1. Oil pan

(1)Head cushions (left) [2 pcs]

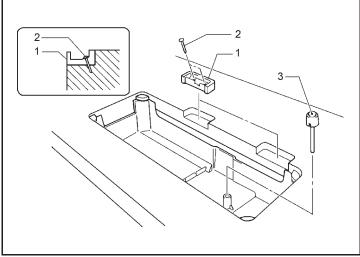
(2)Head cushions (right) [2 pcs]

(3)Oil pan.

(4)Oiler



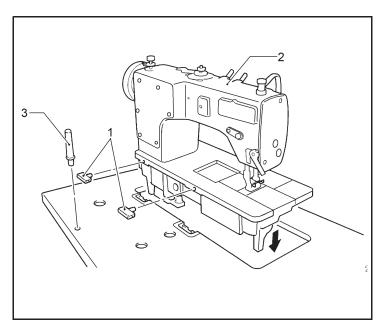
- 2. Rubber cushions
- (1)Rubber cushions [2 pcs]
- (2)Nails [4 pcs]
- 3. Knee lifter complying bar
- (3)Knee lifter complying bar



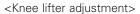
- 4. Machine head
- (1) Hinges [2 pcs]
- (2) Machine head
- (3) Head rest

NOTE:

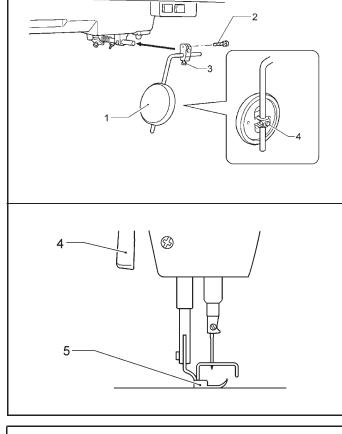
Tap the head rest (3) securely into the table hole. If the head rest (3) is not pushed in as far as it will go, the machine head will not be sufficiently stable when it is tilted back.



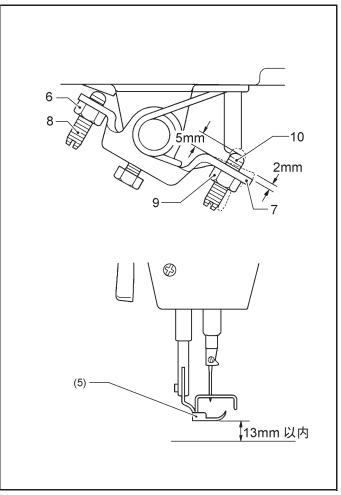
- 5. Knee lifter plate
- (1) Knee lifter plate
- (2) Bolt
- * Loosen the bolt (3) and the bolt (4), and move the knee lifter plate (1) to a position where it is easy to use.



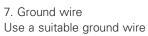
- 1. Turn the machine pulley so that the feed dog is below the top of the needle plate.
- 2. Lower the presser foot (5) by using the lifting lever (4).



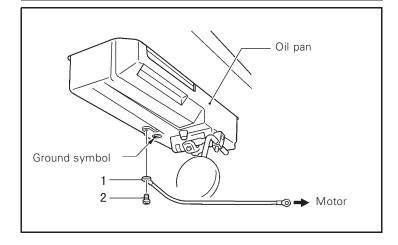
- 3. Loosen the nut (6).
- 4. Turn the screw (8) to adjust so that the amount of play in the knee lifter (7) is approximately 2 mm when the knee lifter plate (1) is gently pressed.
- 5. Securely tighten the nut (6)
- 6. Loosen the nut (9)
- 7. Turn the screw (10) until the distance between the end of the screw (10) and the knee lifter (7) is approximately 5 mm.
- 8. Turn the adjusting screw (10) to adjust so that the presser foot (5) is at the desired position within a distance of 13 mm of the needle plate when the knee liter plat (1) is fully pressed.
- 9. After adjustment is completed, securely tighten the nut (9)



- 6. Ground wire
- (1) Ground wire
- (2) Screw



- (1) Ground wire
- (2) Screw



Align horizontally to the right and then tighten

→Motor

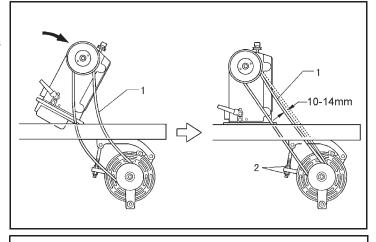
Ground symbol

8. V-belt

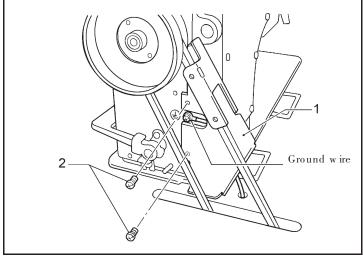
(1) V-belt

Turn the two nuts (2)to adjust so that there is

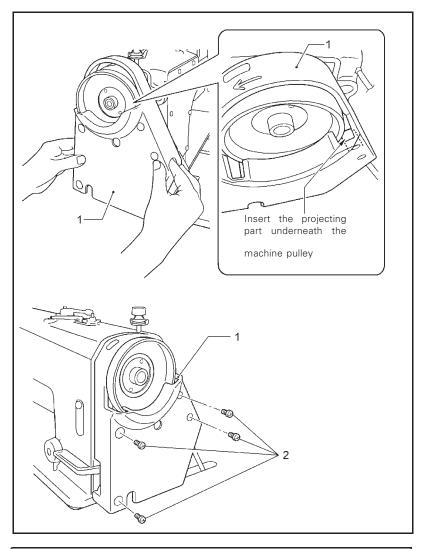
10-14 mm of deflection in the V-belt (1) when it is pressed at the midway point with a force of 5 N.



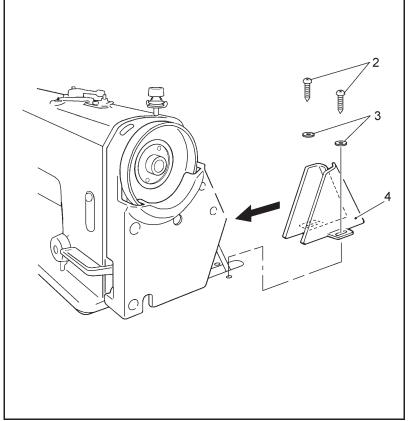
- 9. Belt cover bracket
- (1) Belt cover bracket
- (2) Screws [2 pcs]



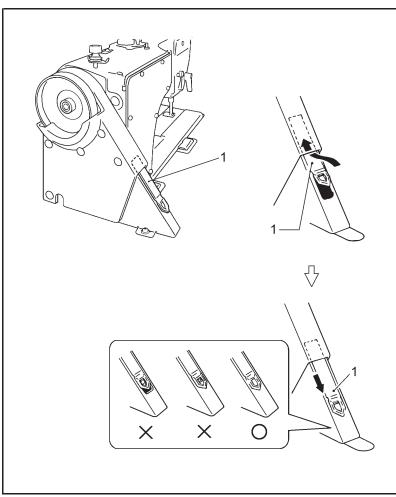
- 10. Belt cover U
- (1) Belt cover U
- (2) Screws [4 pcs]



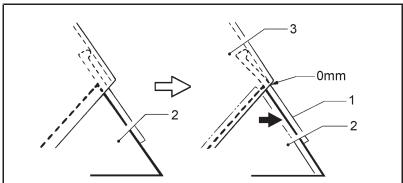
- 11. Belt cover D
- (1) Belt cover D
- (2) Wood screws [2 pcs]
- (3) Washers [2pcs]

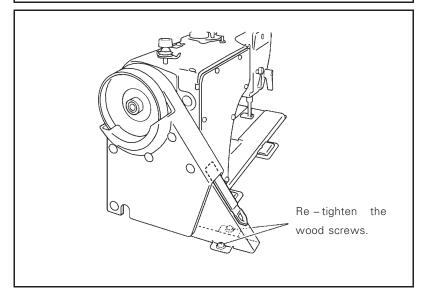


12. Belt cover D lid (1) Belt cover D lid



Pull belt cover D $\,$ (2) forward to adjust so that there is no gap between belt cover U $\,$ (3) and the belt cover D $\,$ lid $\,$ (1).

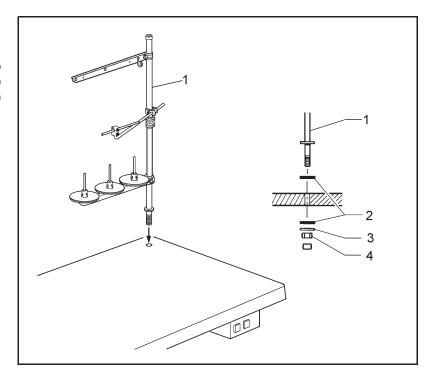




13. Cotton stand(1) Cotton stand

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



CAUTION



Do not connect the power cord until lubrication has been completed, otherwise the machine may operate if the treadle 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 diarrhea. Keep the oil out of the reach of children.

• The sewing machine should always be lubricated and the oil supply replenished before it is used for the first time, and also after

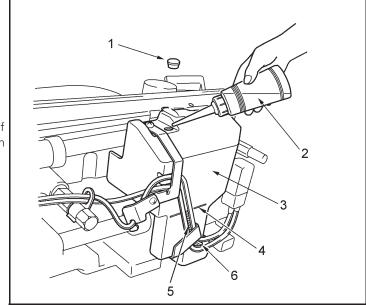
long periods of non-use.

- Use only the lubricating oil specified by our company.<Lubricating via the oil cover>
- 1. Tilt back the machine head
- 2. Remove the rubber cap (1),
- 3. Use the accessory oiler (2) to pour lubricating oil into the oil cover (3) until the oil level reaches the refer ence line (4).

NOTE:

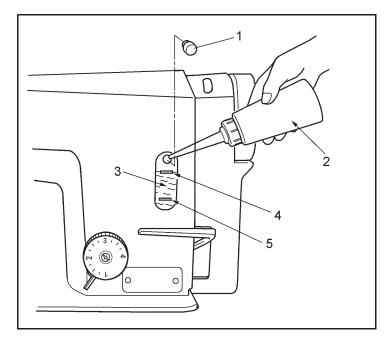
Do not fill with lubricating oil past the reference line (4). If you pour in too much lubricating oil, it may spill out when the machine head is tilted back.

- 4. Replace the rubber cap (1)
- 5. Return the machine head to its original position.
- \star If the lubricating oil level drops below the bottom
- (6) of the oil gauge window (5), be sure to add more oil.



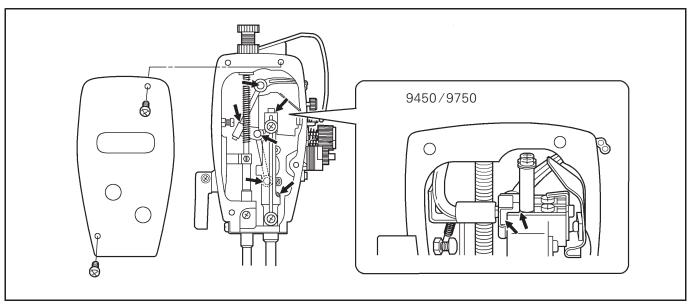
<Lubricating via the oil tank>

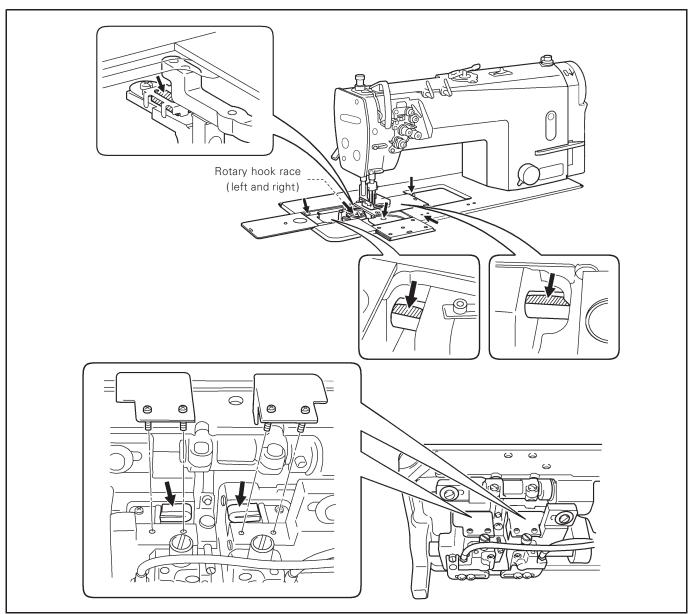
- 1. Remove the rubber cap (1).
- 2. Use the accessory oiler (2) to pour in lubricating oil until the oil level reaches the top reference line (4) of the oil gauge window (3).
- 3. Replace the rubber cap (1).
- *If the lubricating oil level drops below the bottom reference line (5) ,be sure to add more oil.



Lubrication

Apply 1-2 drops of oil to the places indicated by the arrows.





3-3 Checking the machine pulley rotating direction

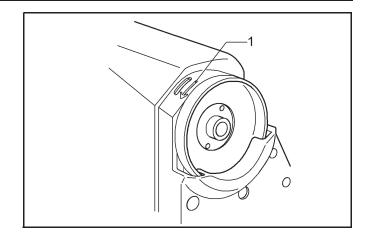


CAUTION



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 the machine.

- 1. Insert the power cord plug into the wall outlet, and then turn on the power switch.
- 2. Depress the treadle slightly and check that the machine pulley starts to turn in the direction of the arrow (1).
- * If the direction of rotation is reversed, change the direction of rotation to the correct direction while referring to the in-struction manual for the motor.



4. PREPARATION BEFORE SEWING

4-1. Installing the needle

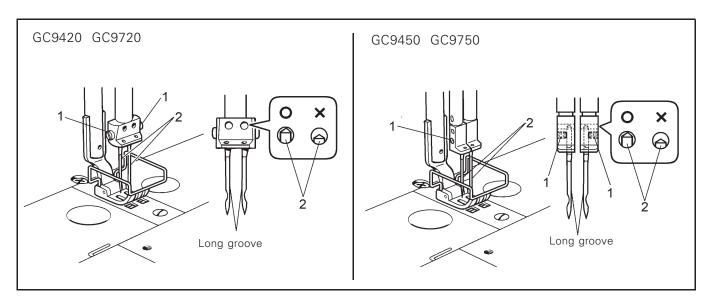


CAUTION



Turn off the power switch before installing the needle. The motor will keep turning even after the power is switched off as a result of the motor's inertia. Wait until the motor stops fully before starting work. The machine may operate if the treadle is depressed by mistake, which could result in injury.

- 1. Turn the machine pulley to move the needle bar to its highest position.
- 2. Loosen the screw (1).
- 3. Insert the needle (2) straight in as far as it will go so that the long groove is facing inward, and then securely tighten the screws (1).



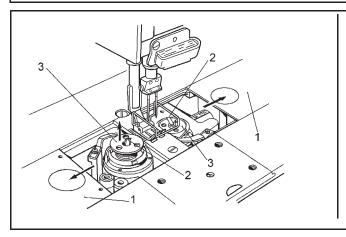
4-2. Removing the bobbin

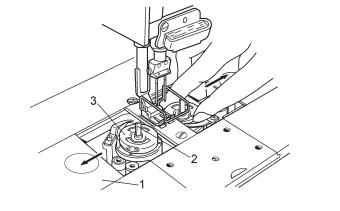


CAUTION



Turn off the power switch before removing the bobbin. The motor will keep turning even after the power is switched off as a result of the motor's inertia. Wait until the motor stops fully before starting work. The machine may operate if the treadle is depressed by mistake, which could result in injury.





<Latch type>

- 1. Open the slide plates (1) by moving them to the right and left
- 2. Pull the rotary hook latches (2) upward, and then remove the bobbins (3).

<Bobbin case type>

- 1. Open the slide plates (1) by moving them to the right and left.
- 2. Lift up the latch (2) of the rotary hook,, and then remove the bobbin case (3).
- 3. Remove the bobbin.

4-3. Winding the lower thread



CAUTION

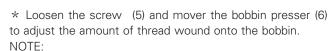


Do not touch any of the moving parts or press any objects against the machine while winding the lower thread, as this may result in personal injury or damage to the machine.

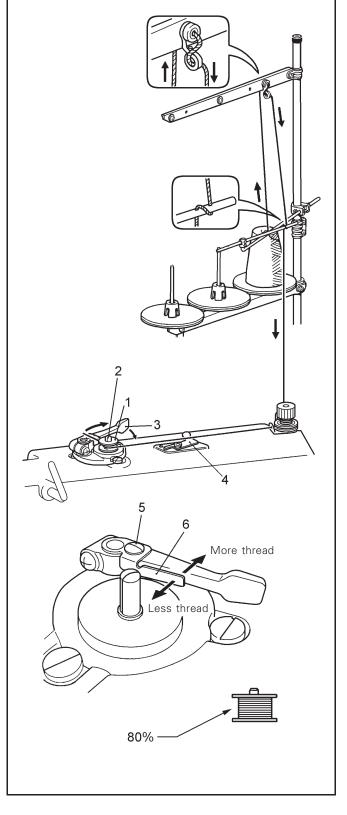
- 1. Turn on the power switch.
- 2. Place the bobbin (1) onto the bobbin winder shaft (2).
- 3. Wind the thread several times around the bobbin $\,$ (1) in the

direction indicated by the arrow.

- * Check that the thread is not loose anywhere along the thread path
- 4. Push the bobbin presser arm (3) toward the bobbin (1).
- 5. Raise the presser foot with the lifting lever.
- 6. Depress the treadle. Lower thread winding will then start
- 7. Once winding of the lower thread is completed, the bobbin presser arm (3) will return automatically.
- 8. After the thread has been wound on, remove the bobbin and cut the thread with the knife (4).



The amount of thread wound onto the bobbin should be a maximum of 80% of the bobbin capacity.



4-4 Installing the bobbin



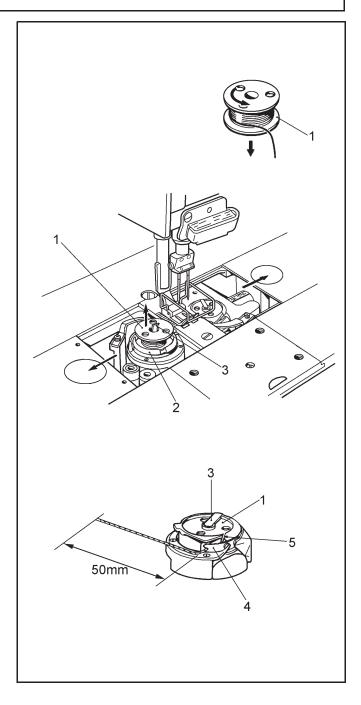
CAUTION



Turn off the power switch before installing the bobbin. The motor will keep turning even after the power is switched off as a result of the motor's inertia. Wait until the motor stops fully before starting work. The machine may operate if the treadle is depressed by mistake, which could result in injury.

⟨Latch type⟩

- 1. Insert the bobbin (1) into the rotary hook (2) so that the winding direction is as shown in the illustration.
- 2. Return the rotary hook latch (3) to its original position.
- 3. Turn the machine pulley to rotate the rotary hook (2) until the tension spring (4) is visible.
- 4. Pass the thread through slit (5) in the rotary hook and then pass it under the thread tension spring.
- 5. Pull out the thread to a length of approximately 50 mm.
- 6. Close the slide plates.



<Bobbin case type>

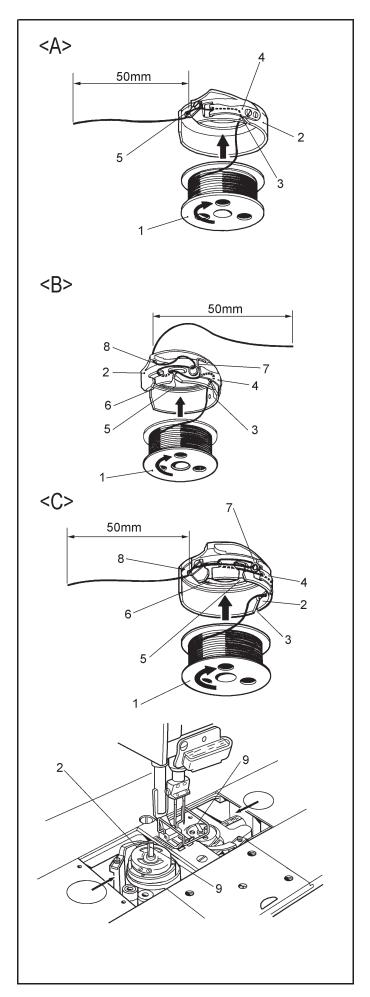
- 1. Insert the bobbin (1) into the bobbin case (2) so that the winding direction is as shown in the illustration.
- 2. There are three types of cap (2)<A>,and<C>). Thread the thread by one of the following methods in accordance with the shape of the bobbin case (2) being used.

<A>

- 1) Pass the thread through slot (3) and under the thread tension spring (4).
- 2) Pass the thread through the thread hole (5) and pull out about 50 mm.

<C>

- 1) Pass the thread through slot (3) and under the thread tension spring (4).
- 2) Pass the thread through slots (5) and (6), and then through the spring (7).
- 3) Pass the thread through the thread hole (8) and pull out about 50 mm.
- 3. Insert the bobbin case (2) into the rotary hook.
- 4. Push latch (9) of the rotary hook flat.
- 5. Close the slide plates.



4-5 Threading the upper thread



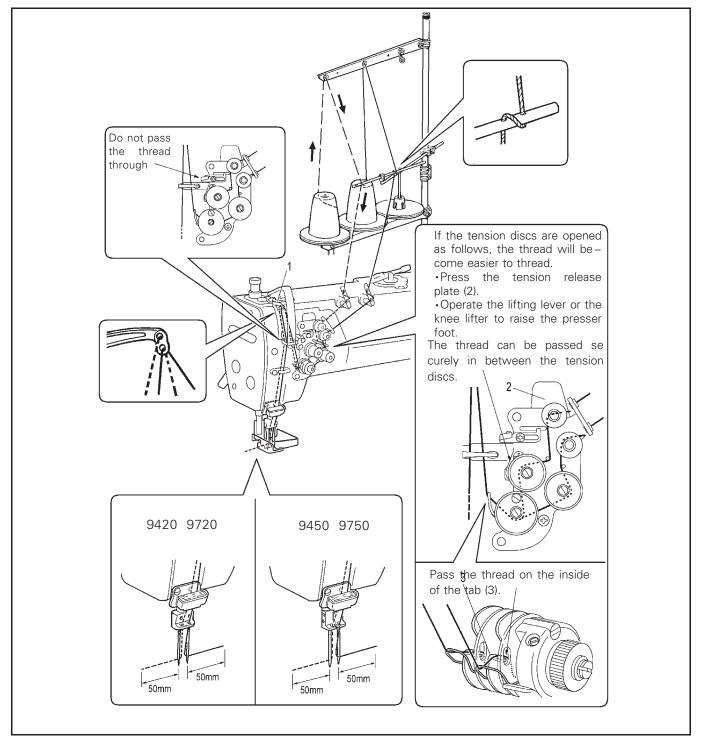
CAUTION



Turn off the power switch before threading the upper thread. The motor will keep turning even after the power is switched off as a result of the motor's inertia. Wait until the motor stops fully before starting work. The machine may operate if the treadle is depressed by mistake. Which could result in injury.

- Turn the machine pulley and raise the thread take—up (1) before threading the upper thread.

 This will make threading easier and it will prevent the thread from coming out at the sewing start.
- Thread the left-side thread first.

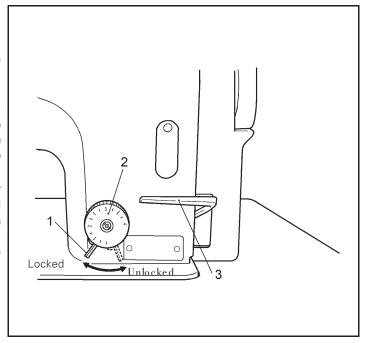


4-6 Adjusting the stitch length

- 1. Unlock the stitch length dial (2) by turning the dial lock lever (1) to the right until a click is heard.
- 2. Turn the stitch length dial (2) clockwise or counter clock wise so that the desired stitch length is at the uppermost

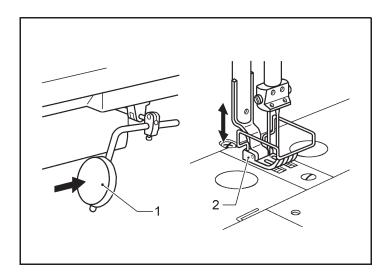
position on the dial.

- The larger the number , the longer the stitch length will be. (The numbers on the dial are for use as a guide. The length of the finished stitches may vary depending on the type and thickness of material being sewn. Adjust while looking at the finished stitches.)
- When turning the stitch length dial (2) from a larger setting to a smaller setting, it will be easier to turn the dial if the re –verse lever (3) is pushed to the halfwaydown position.
- 3. Turn the dial lock lever (1) firmly to the left to lock the stitch length dial (2).
- * Check that the stitch length dial (2) dose not rotate.



4-7. Using the knee lifter

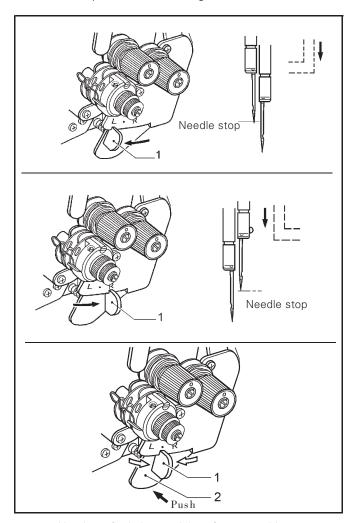
The presser foot (2) can be raised by pressing the knee lifter plate (1).



4-8. Corner sewing method (9450,9750)

NOTE:If using this machine in place of a single-needle machine, remove the needle which is not being used. In such cases, do not use the procedures given below to stop the unused needle bar from moving, otherwise damage to the machine may result

4-8-1. To stop the needle bars (right and left)

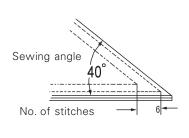


- Operate the stop lever after the needle has penetrated the material and has stopped moving.
- Do not sew at speeds of over 1,000 rpm while one of the needle bars has been stopped.
- <To stop operation of the left needle bar> Move the stop lever (1) to the "L" position.
- <To stop operation of the right needle bar> Move the stop lever (1) to the "R" position.

<To resume twin-needle sewing > Press the push lever (2).

The stop lever (1) will then return to its original position automatically.

4-8-2. Number of stitches: quick-reference guide



| sewing angl | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 |
|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 2 | | | | | 4.6 | 3.8 | 3.2 | 2.7 | 2.2 | 1.8 | 1.5 | 1.1 |
| 3 | | | 4.6 | 3.5 | 3.0 | 2.5 | 2.1 | 1.8 | 1.5 | 1.2 | | |
| 4 | | 4.4 | 3.4 | 2.8 | 2.3 | 1.9 | 1.6 | 1.3 | | | | |
| 5 | 4.8 | 3.5 | 2.7 | 2.2 | 1.8 | 1.5 | 1.3 | | | | | |
| 6 | 4.0 | 2.9 | 2.3 | 1.9 | 1.5 | 1.3 | | | | | | |
| 7 | 3.7 | 2.5 | 2.0 | 1.6 | | | | | | | | |
| 8 | 3.0 | 2.2 | 1.7 | | | | | | | | | |

<For "1/4" needle width>

Determine the stitch length from the chart above to make beautiful corner stitching.

The number of stitches of the outer needle varies according to the combination of sewing angle and stitch length. [Example]

For a sewing angle of 40° and a stitch length of 2.9 mm, the number of stitches becomes 6.

5.SEWING



CANTION



Attach all safety devices before using the sewing machine. If the machine is used without these devices attached, injury may result.



Turn off the power switch at the following times. The motor will keep turning even after the power is switched off as a result of the motor's inertia. Wait until the motor stops fully before starting work.

The machine may operate if the treadle is depressed by mistake, which could result in injury.

- When threading the needle.
- When replacing the bobbin and needle
- 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.



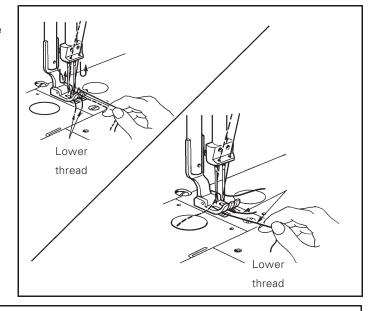
Use both hands to hold the machine head when tilting it back or returning it to its original position. If only one hand is used, the weight of the machine head may cause your hand to slip, and your hand may get caught.

5-1. Sewing

1. While holding the two upper threads with your fingers, turn the machine pulley by hand toward you until the lower

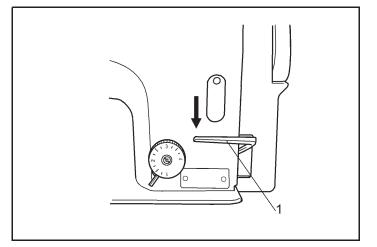
threads come out onto the feed dog.

- 2. Pull the lower threads toward you and check that they pull out smoothly.
- 3. Turn on the power switch..
- 4. Depress the treadle to start sewing.



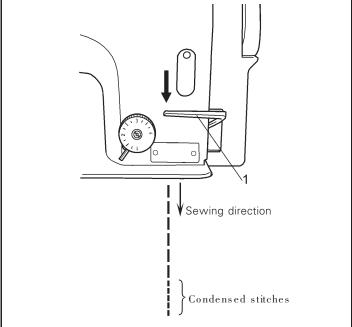
5-2. Backtacking

When the reverse lever (1) is pressed during sewing, the feed direction will be reversed. When it is released, the feed direction will return to normal.



5-3. Sewing condensed stitches

- If you press the reverse lever (1)while sewing is in progress, you can sew stitches (forward direction) with small stitch lengths.
- Before carrying out sewing, set the stitch length for condensed stitches as follows.

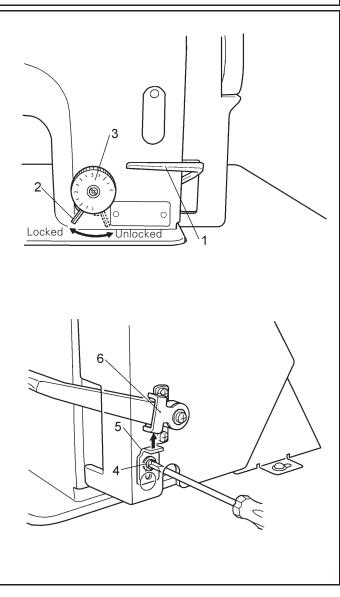


<Setting>

- 1. Unlock the stitch length dial (3) by turning the dial lock lever (2) to the right.
- 2. Turn the stitch length dial (3) to the stitch length to be used for condensed stitches.
- 3. Loosen the screw (4) and lift up the stopper (5) until it touches the reverse stitching lever plate (6).
- 4. Tighten the screw (4) to secure the stopper (5).

<Sewing>

- 1. Return the stitch length dial (3) to the stitch length for normal sewing.
- 2. Turn the dial lock lever (2) firmly to the left to lock the stitch length dial (3).
- 3. Start sewing.
- At the position where you would like to start sewing condensed stitches, press the reverse lever (1) (Condensed stitches are sewn while the reverse lever (1) is being pressed.)
- * To stop sewing condense stitches and return to using the backtack function, lower the stopper (5) so that it does not touch the reverse stitching lever plate (6).



6. THREAD TENSION

6-1. Adjusting the thread tension



CAUTION



Turn off the power switch before adjusting the lower thread tension. The motor will keep turning even after the power is switched off as a result of the motor's inertia. Wait until the motor stops fully before starting work. The machine may operate if the treadle is depressed by mistake, which could result in injury.

Good even stitches.



Upper thread Lower thread



Upper thread tension too weak or lower thread tension too strong.

Increase the upper thread tension.

Decrease the lower thread tension.

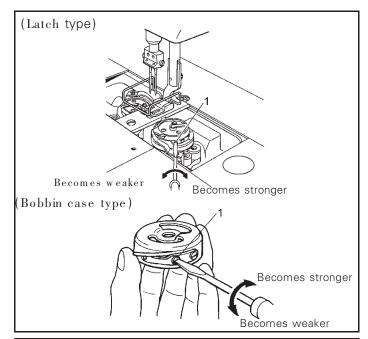


Upper thread tension too strong or lower thread tension too weak.

Decrease the upper thread tension. Increase the lower thread tension.

(Lower thread tension)

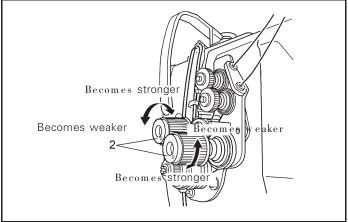
Turn the adjusting screw (1) to adjust.



< Upper thread tension >

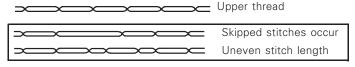
After the lower thread tension has been adjusted, adjust the upper thread tension so that a good, even stitch is obtained.

- 1. Lower the presser foot,
- 2. Adjust by turning the tension nut (2).

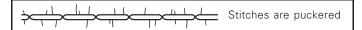


6-2. Adjusting the presser foot pressure

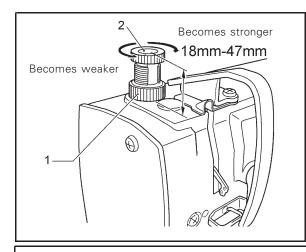
Correct stitches



Increase the pressure



Decrease the pressure



The presser foot pressure should be as weak as possible, but strong enough so that the material does not slip.

(Refte to "adjusting screw height" in the table below as a guide to adjustment.)

- 1. Loosen the adjusting nut (1).
- Turn the presser adjusting screw (2) to adjust the presser foot pressure.
- 3. Tighten the adjusting nut (1).

Reference values

| Use | Adjusting screw height | | |
|-----------------------------|------------------------|--|--|
| For light-weight andmediu | Approx.34mm | | |
| weight materials | Арргох.34ПП | | |
| For heavy-weight materrials | Approx.29mm | | |

6-3. Adjusting the thread take-up amount

the thread take –up amount is adjusted by how the thread is passed through the thread amount adjuster (1).

<Using the standard thread amount adjuster (1)>

For non-foundation specifications

Do not pass the thread through the thread amount adjuster (1). Loosen the screw (2) and slide the thread amount ad–juster (1) to the right–side position.

For foundation specifications

Pass the thread through the thread amount adjuster (1). The standard position of the thread amount adjuster (1) is when the screw (2) is in the center of the adjustment range.

<Adjusting the thread take-up amount>

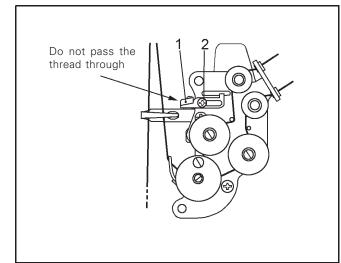
When the thread has been passed through the thread amount adjuster (1), the thread take-up amount becomes less when the thread amount adjuster (1) is moved to the right.

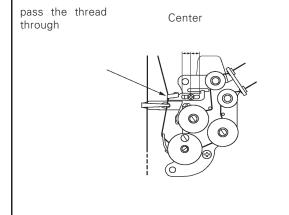
It is better not to pass the thread through the thread amount adjuster (1):

- When sewing heavy materials using a sewing machine with foundation specifications
- When the thread take –up amount is not enough, such as when the stitch length is increased.

It is better to pass the thread through the thread amount adjuster (1):

- When sewing with slippery threads such as synthetic yarns
- When sewing light materials
- When sewing with a stitch length of 2 mm or less
- When sewing under any of the above three conditions and you would like to prevent skipped stitches, thread tightening problems such as looping, or thread breakages





7. CI FANING

A

CAUTION



Turn off the power switch before carrying out cleaning. The motor will keep turning even after the power is switched off as a result of the motor's inertia. Wait until the motor stops fully before starting work.

The machine may operate if the treadle is depressed by mistake, which could result in injury.



Be sure to wear protective goggles and gloves when handling the lubricatiog 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 diarrhea.

Keep the oil out of the reach of children.



Use both hands to hold the machine head when tilting it back or returning it to its original position. If only one hand is used, the weight of the machine head may cause your hand to slip, and your hand may get caught.

7-1. Daily cleaning procedures

The following cleaning operations should be carried out each day in order to maintain the perfomance of this machine and to ensure a long service life.

Furthermore, if the sewing machine has not been used for a long period of time, carry out the following cleaning proce – dures before using it again.

<Cleaning>

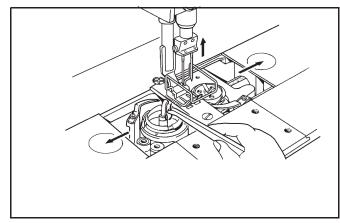
- 1. Turn the machine pulley to move the needle to the needle up stop position.
- 2. Open the slide plates at the left and right.
- 3. Remove the bobbin.
- 4. Clean the thread scraps from the rotary hook.
- 5. Install the bobbin (and the bobbin case).

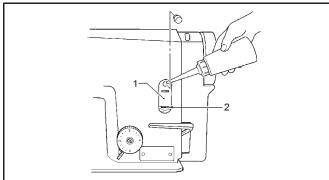
<Filling the oil tank>

Use only the lubricating oil specified by our company.

1. If the lubricating oil level drops below the bottom reference

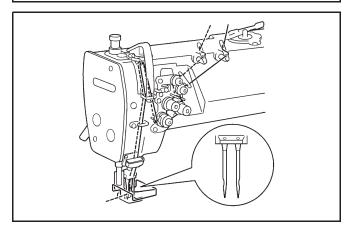
line (2) of the oil gauge window (1) ,be sure to add more oil.



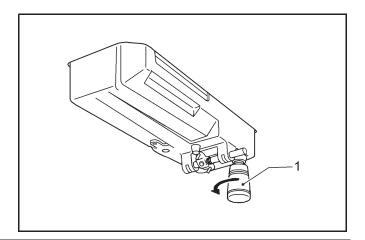


<Checking>

- 1. Replace the needle if it is bent or if the tip is broken.
- 2. Check that the upper threads have been threaded correct ly
- 3. Carry out a test sewing.



- <Draining lubricating oil>
- 1. If the oiler (1) has filled with oil, unscrew the oiler (1) and dispose of the oil inside it.
- 2. Screw the oiler (1) back into the oil pan.



7-2. Lubricating via the oil cover (every 6 months)

<Minimum lubrication type>

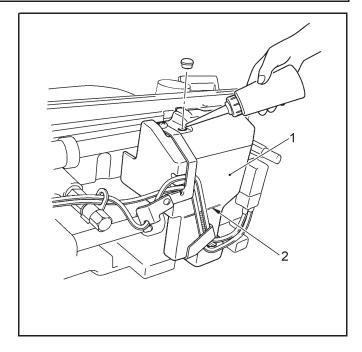
Pour lubricating oil into the oil cover (1) about once every six months.

<Semi dry type>

Pour lubricating oil into the oil cover (1) about as often as grease is applied.

Use only the lubricating oil specified by our company .

- 1. Tilt back the machine head.
- 2. Pour lubricating oil into the oil cover (1) until the oil level reaches the reference line (2).
- 3. Return the machine head to its normal position.



8. ADJUSTING THE ROTARY HOOK LUBRICATION AMOUNT

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CAUTION

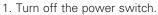


Be careful not to touch your fingers or the lubrication amount check sheet against moving parts such as the rotary hook or the feed mechanism when checking the amount of oil supplied to the rotary hook, otherwise injury may result.

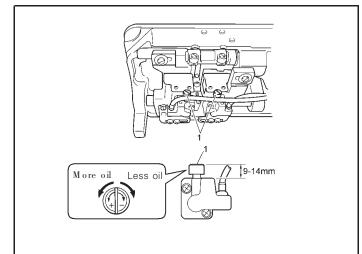
Use the following procedure to check the amount of oil being supplied to the rotary hook when replacing the rotary hook or when changing the sewing speed.

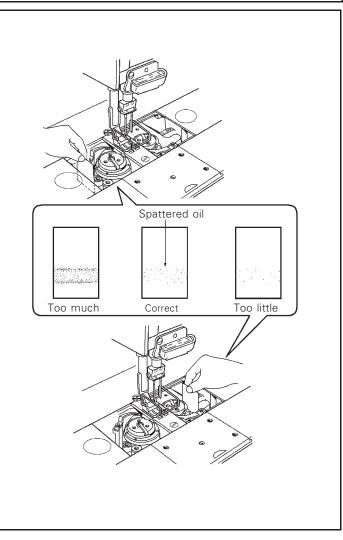
<Guide to lubrication adjustment>

- 1. Tilt back the machine head.
- 2. Turn the oil adjusting screw (1) to adjust the height to within 9–14 mm.
- <Checking the lubrication amount>



- Remove the thread from all points from the thread take up to the needle.
- 3. Remove the needle and the bobbin.
- 4. Use the lifting lever to lift the presser foot.
- 5. Turn on the power switch.
- 6. Run the machine at the normal sewing speed for approxi mately 1 minute without sewing any material (following the same start/stop pattern as when actually sewing).
- 7. Place the lubrication amount check sheet (2) to the left of the rotary hook (the right side is the right side of the rotary hook), and hold it in place while running the sewing machine at the normal sewing speed for approximately 8 seconds. (Any type of paper can be used as the lubricationamount check sheet (2).)
- Check the amount of oil which has spattered onto the sheet.
- <Adjusting the lubrication amount>
- 1. Tilt back the machine head.
- Turn the adjusting screw (1) to adjust the lubrication amount.
- If the rotary hook adjusting screw (1) is turned counterclockwise, the lubrication amount becomes greater.
- If the rotary hook adjusting screw (1) is turned clockwise, the lubrication amount becomes smaller.
- 3. Check the lubrication amount again according to the procedure given in "Checking the lubrication amount" above.
- *Turn the adjusting screw (1) and check the lubrication amount repeatedly until the lubrication amount is correct.
- 4. Check the lubrication amount again after the sewing machine has been used for approximately two hours.





9. TROUBLESHOOTING

- Please check the following points before calling for repairs or service.
- If the following remedies do not fix the problem, turn off the power switch and consult a qualified technician or the place of purchase.



CANTION



Turn off the power switch and disconnect the power cord before carrying out troubleshooting. The motor will keep turning even after the power is switched off as a result of the motor's inertia. Wait until the motor stops fully before starting work.

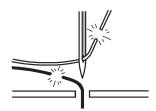
The machine may operate if the treadle is depressed by mistake, which could result in injury.

| Problem | Possible cause |
|---|--|
| Machine does not op— erate when power is turned on and treadle is pressed. | Is a breaker or fuse blown? Is the power cord disconnected? Is the V-belt installed? |
| 2. Upper thread is not tight. | Has the thread been threaded incorrectly? If the thread is threaded incorrectly, thread it correctly. Is the upper thread tension or lower thread tension too weak? Adjust the upper thread tension or lower thread tension. Is the thread take—up spring operating range too small? Lower the position of the stopper. |
| Lower thread is not tight. | If using a sewing machine with medium—weight material specifications, poor thread tightening may occur depending on the type of material being sewn. In such cases, replace the presser foot with one that has slots on the underside, or replace the feed dog with a grooved feed dog. |
| | Slot |
| 3. Loops appear in seam. | Is the thread path not smooth enough? Use a file with a fine grain or sandpaper to polish smooth the thread path. Is the bobbin not turning smoothly? Pull out the lower thread to check that there is no slackness in the thread tension, or replace the bobbin or bobbin case. Is the thread take-up amount too large? Adjust the thread take-up amount. |

| Problem | Possible cause |
|--|--|
| 4. Skipped stitches occur while sewing | Is the needle tip bent? Is the needle tip blunt? If the needle tip is bent or broken, replace the needle. Is the needle properly installed? If it is incorrect, install the needle correctly. Is the machine properly threaded? If it is incorrect, thread the thread correctly. Is the presser foot pressure too weak? Adjust the presser foot pressure. Is the needle too thin? Replace the needle with a needle that is one rank thicker. Is the presser foot too high? Adjust the height of the presser foot. Is the thread take-up spring too weak? Adjust the tension of the thread take-up spring. Is the thread take-up amount too large? Adjust the thread take-up amount. |
| 5 .Skipped stitches at sewing start Thread unravelling at sewing start | Is the thread take-up spring tension too strong? Reduce the tension of the thread take-up spring. Is the thread take-up spring operating range too large? Raise the position of the stopper. Is the thread take-up at its highest position at the sewing start? Set the thread take-up to its highest position at the sewing start. Is the length of the upper thread trailing from the needle hole too short? Pull about 50 mm of thread through the needle hole at the sewing start. Is the needle too wide? Try using a needle with a count that is one lower than the current needle. If sewing light or medium -weight materials, is a presser foot with slots on the under-side or grooved feed dog being used? Use a presser foot without slots. Use a feed dog without grooves. |
| 6. Uneven seam | Is the presser foot pressure too weak? Adjust the presser foot pressure. Is the feed dog too low? Adjust the feed dog height. Is the bobbin scratched? If the bobbin is damaged, smooth it with an oiled grindstone or replace it. Is the V-belt tension too low? Adjust so that there is 10-14 mm of deflection in the V-belt when it is pushed with a finger. |

| Problem | Possible cause |
|---|---|
| 7. Large degree of puck-ering (excess | tension) Is the upper thread tension too strong? Make the upper thread tension as weak as possible. Is the lower thread tension too strong? Make the lower thread tension as weak as possible. Are the thread take—up spring tensions too strong? Make the thread take—up spring tension as weak as possible. Is the thread take—up spring operating range too large? Move the stopper to as high a position as possible. Is the presser foot pressure too strong? Adjust the presser foot pressure. Is the thread take—up amount too small? Adjust the thread take—up amount. |
| 8. Material slippage | Is the presser foot pressure too strong? Adjust the presser foot pressure. |
| 9. Lower thread is tangled at the sewing start. Lower thread | Is the bobbin spinning direction correct when the lower thread is being pulled? Set the bobbin so that it turns in the opposite direction to the rotary hook. Is there too much thread wound onto the bobbin? The bobbin winding amount should not be more that 809 If the bobbin is not turning smoothly, replace the bobbin. |

10 Upper and lower threads are breaking.

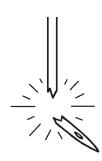


- Is the needle bent or is the needle tip broken?
 Replace the needle if it is bent or broken.
- Is the needle properly installed?
 If it is incorrect, install the needle correctly.
- Is the machine properly threaded?
 If it is incorrect, thread the thread correctly.
- Is the oil tank filled with lubricating oil?
 If the level of lubricating oil is below the bottom reference line, add more oil.
- Is the upper or lower thread tension too weak or too strong?
 Adjust the upper thread or lower thread tension.
- Is the rotary hook blocked with dust or thread scraps?
 Clean the rotary hook.
- Is the upper thread may be loose because the thread take-up spring operating range is too small?

Adjust the position of the stopper.

- Is the rotary hook, feed dog or other part damaged?
 If they are damaged, smooth them with an oiled grindstone or replace the damaged parts.
- Is the thread path damaged?If the thread path is damaged, smooth it with sandpaper or replace the damaged part.
- Is the thread take-up amount correct?
 Adjust the thread take-up amount.

11. Broken needles



- Is the material being pushed or pulled with excessive force during sewing?
- Is the needle bent, is the needle tip broken, or is the needle hole blocked?
 Replace the needle.
- Does the needle drop into the center of the needle hole in the feed dog?
 Check the needle drop position. If the needle does not drop into the center of the needle hole in the feed dog, reinstall the feed dog.

If the needle bar has rotated, rotate the needle bar to the correct position.

Caution

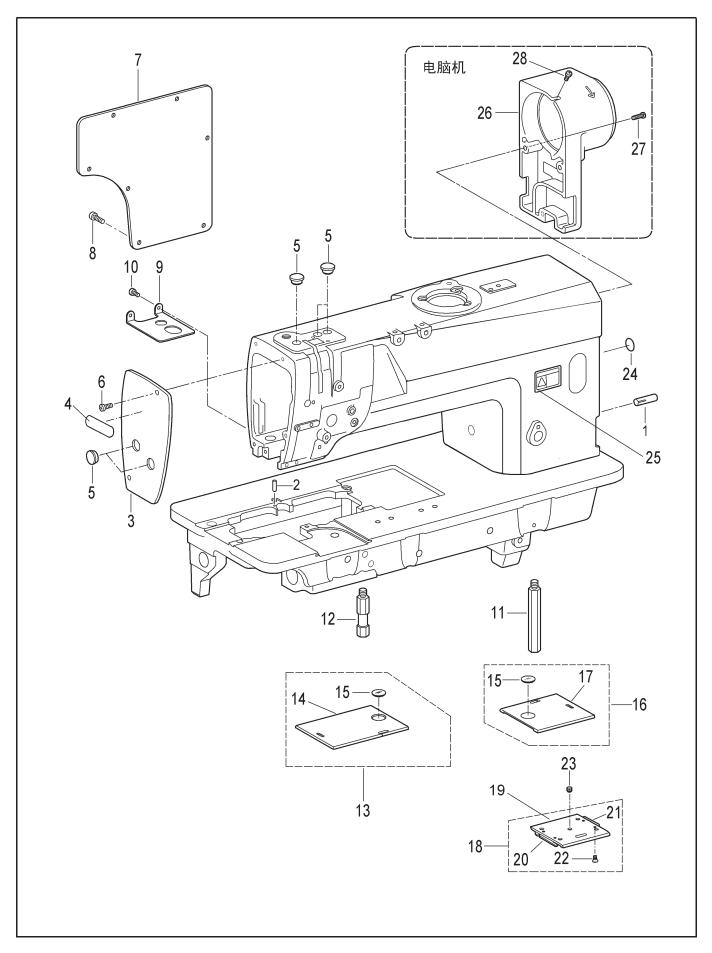
• It is extremely dangerous to leave any pieces of broken needle sticking in the material. If the needle breaks, search for all pieces until the whole of the needle is

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• found again.

Furthermore, we recommend we recommend that through steps be taken to

1-1. MACHINE BODY(GC9420 \ GC9720)

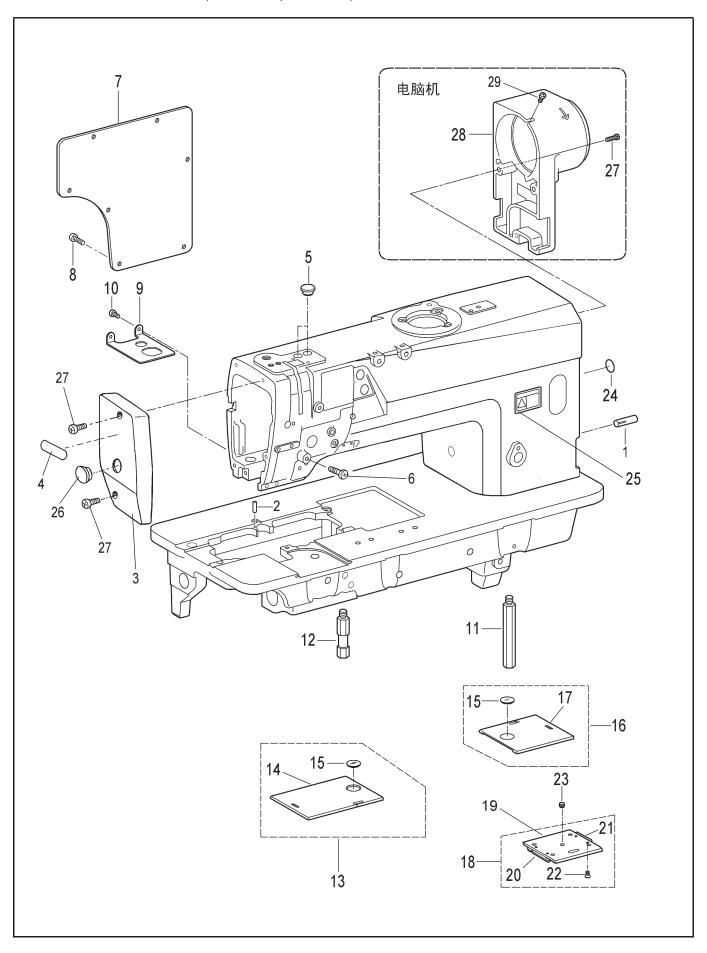


1-1. MACHINE BODY(GC9420、GC9720)

| No. | Ref.No | Description | Qt | Note |
|-----|------------|-------------------------|----|------|
| 1 | B960047009 | Dowelpin | 1 | |
| 2 | BXF7186009 | Positioning pin | 1 | |
| 3 | 216000001 | Face plate | 1 | |
| 4 | 116DMZ005 | Plate | 1 | |
| 5 | BXF8181009 | Rubber plug 12.5 | 5 | |
| 6 | B048500294 | Screw M5X8 | 2 | |
| 7 | 216000002 | Rear cover | 1 | |
| 8 | B048509894 | Screw M5X12 | 7 | |
| 9 | BXF8667009 | Dust protector | 1 | |
| 10 | B048500494 | Screw M5X6 | 2 | |
| 11 | BXF8666009 | Bed leg, L | 1 | |
| 12 | BXF8665009 | Bed leg, S | 1 | |
| 13 | BXF8663009 | Slide plate assy, left | 1 | |
| 16 | BXF8661009 | Slide plate assy, right | 1 | |
| 18 | BX74447059 | Slide plate assy, front | 1 | |
| 24 | 036E02002 | Label, grounding | 1 | |
| 25 | 124100501 | Label, caution english | 1 | |
| 26 | BXF8668009 | Motor cover | 1 | |
| 27 | B048509694 | Screw M5X14 | 3 | |
| 28 | B048509094 | Screw M5X10 | 1 | |
| | | | | |
| | | | | |

^{*}The part circled by is supplied in complete set.

1-2.MACHINE BODY (GC9450 \GC9750)

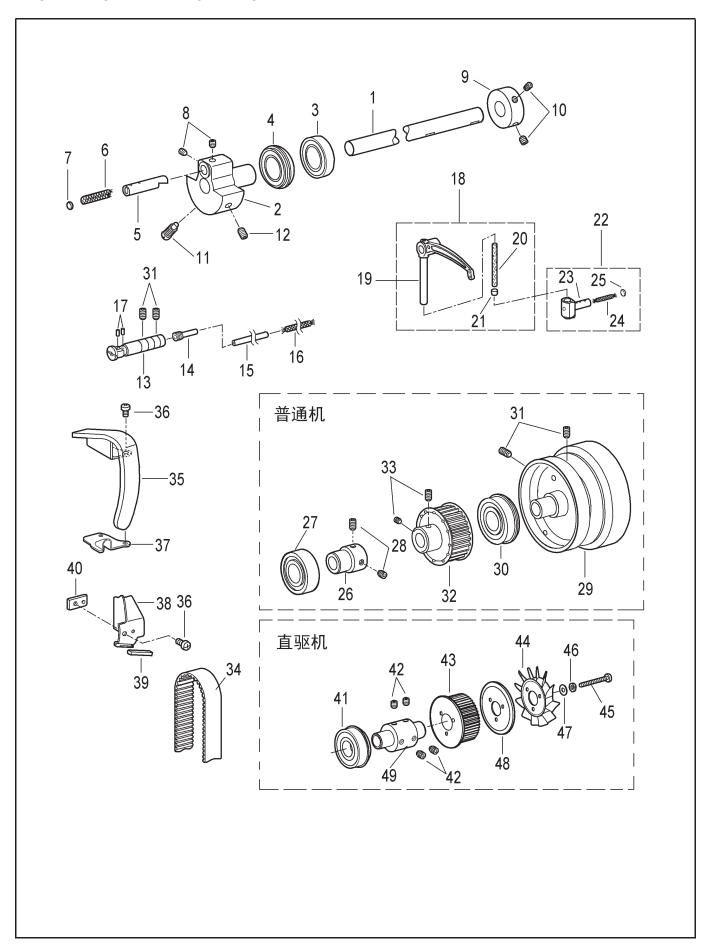


1-2.MACHINE BODY (GC9450、GC9750)

| No. | Ref.No | Description | Qt | |
|-----|------------|-------------------------|----------|--|
| 1 | B960047009 | Dowel pin | 1 | |
| 2 | BXF7186009 | Positioning pin | 1 | |
| 3 | 216C10102 | Face plate | 1 | |
| 4 | 116DMZ005 | Plate | 1 | |
| 5 | BXF8181009 | Rubber plug 12.5 | 2 | |
| 6 | B048500294 | Screw M5X8 | 2 | |
| 7 | 216000002 | Rear cover | 1 | |
| 8 | B048509894 | Screw M5X12 | 1 | |
| 9 | BXF6730009 | Dust protector | 1 | |
| 10 | B048500494 | Screw M5X6 | 2 | |
| 11 | BXF8666009 | Bed leg, L | 1 | |
| 12 | BXF8665009 | Bed leg, S | 1 | |
| 13 | BXF8663009 | Slide plate assy, left | 1 | |
| 16 | BXF8661009 | Slide plate assy, right | 1 | |
| 18 | BX74447059 | Slide plate assy, front | 1 | |
| 24 | 036E02002 | Label, grounding | 1 | |
| 25 | 124100501 | Label, caution english | 1 | |
| 26 | B906661009 | Rubber plug 15.5 | 1 | |
| 27 | B048509694 | Screw M5X14 | 3 | |
| 28 | BXF8668009 | Motor cover | 1 | |
| 29 | B048509094 | Screw M5X10 | 1 | |
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^{*} The part circled by is supplied in complete set.

2.UPPER SHAFT MECHANISM

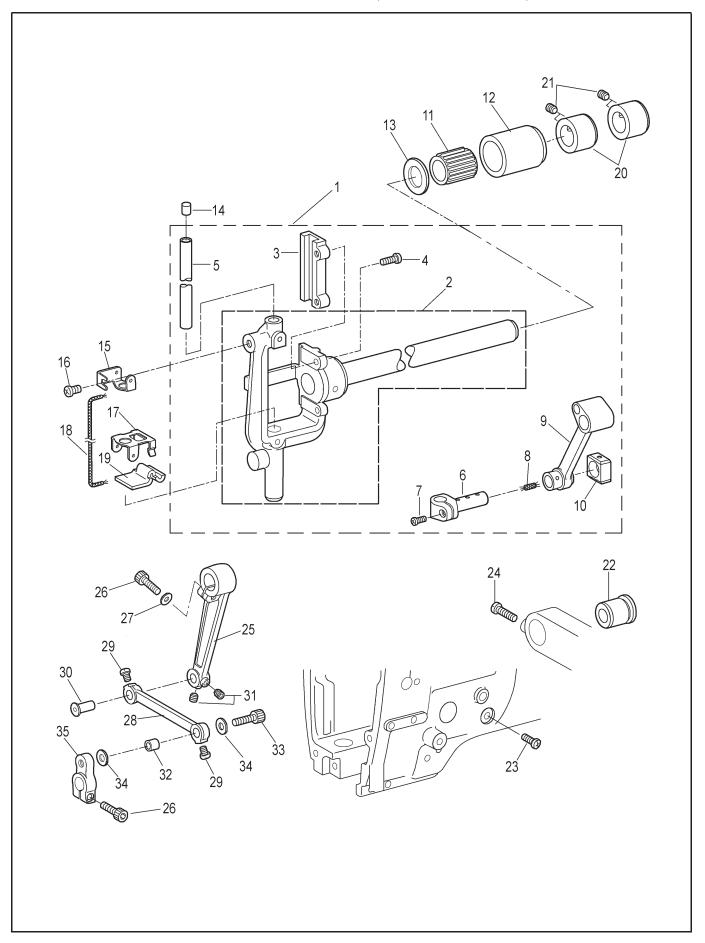


2. UPPER SHAFT MECHANISM

| No. | Ref.No | Description | Qt | Note |
|-----|------------|--------------------------------------|----|---------------------------|
| 1 | BXF8364809 | Upper shaft | 1 | 9420/9720 |
| | BXF6550009 | Upper shaft | 1 | 9450/9750 |
| | BXF8658009 | Upper shaft | 1 | With direct drive |
| 2 | BXF6021009 | Needle bar crank | 1 | 9420/9720 |
| | BXF6737009 | Needle bar crank | 1 | 9450/9750 |
| 3 | BX85876009 | Ball bearing 6004ZZ | 1 | |
| 4 | S150866013 | Ball bearing 6004ZZNR | 1 | |
| 5 | BX72712009 | Needle bar Crank shaft | 1 | |
| 6 | BXF6775009 | Wick 6X6 L=90 | 1 | |
| 7 | B997096000 | Wick cover | 1 | |
| 8 | BX85840009 | Set screw M6X5 | 2 | |
| 9 | BXF9980009 | Friction-gear | 1 | |
| 10 | BX87459009 | Set screw M6X6 | 2 | |
| 11 | BX85875009 | Screw M8 | 1 | |
| 12 | BX85874009 | Set screw M6X10 | 1 | |
| 13 | BXF8645009 | Pin | 1 | |
| 14 | BXF8247009 | Tie-in of thread take-up lever shaft | 1 | |
| 18 | BXF8175909 | Thread take-up lever assy | 1 | 9420MD3/9450MD3/HD3 9420M |
| | BXF8174909 | Thread take-up lever assy | 1 | 9450M/H 9420H 9420HD3 |
| | BXF8173909 | Thread take-up lever assy | 1 | 9720M/H 9720MD3/HD3 |
| | BXF6742009 | Thread take-up lever assy | 1 | 9750M/H 9750MD3/HD3 |
| 22 | BX97940009 | Sliding block assy | 1 | |
| 26 | BXF8362009 | Ball bearing bush | 1 | |
| 27 | B034087200 | Ball bearing radial 60/22ZZ | 1 | |
| 28 | BX87459009 | Set screw M6X6 | 2 | |
| 29 | BXF8350009 | Balance wheel | 1 | |
| 30 | S150866006 | Ball bearing 6204ZZNR | 1 | |
| 31 | B098049074 | Set screw M6X10 | 4 | |
| 32 | BXF8380009 | Timing pulley assy | 1 | |
| 33 | B87459009 | Set screw M6X6 | 2 | |
| 34 | BXF8647009 | Timing belt | 1 | |
| 35 | BXF8641009 | Thread take-up lever cover | 1 | |
| 36 | B048500294 | Set screw M5X8 | 3 | |
| 37 | BXF7053009 | Dust cover | 1 | |
| 38 | BXF7052909 | Shelter plate | 1 | 9420/9720 |
| | BXF6734909 | Shelter plate | 1 | 9450/9750 |
| 39 | BXF7045009 | Felt | 1 | |
| 40 | BXF7051009 | Shelter plate holder | 1 | |
| 41 | S150866006 | Ball bearing 6004ZZNR | 1 | |
| 42 | BX87459009 | Set screw M6X6 | 4 | |
| 43 | BXF8649009 | Timing pulley assy, Up | 1 | |
| 44 | BX72397900 | Fan | 1 | |
| 45 | B048607598 | Screw M4x35 | 3 | |
| 46 | S8A3103011 | Washer spring | 3 | |
| 47 | B085060878 | Washer plain | 3 | |
| 48 | BXF8648009 | Pulley flange | 1 | |
| 49 | BXF9969009 | Coupling shaft organ | 1 | |
| | | | | |
| | <u> </u> | | 1 | |

^{*} The part circled by is supplied in complete set.

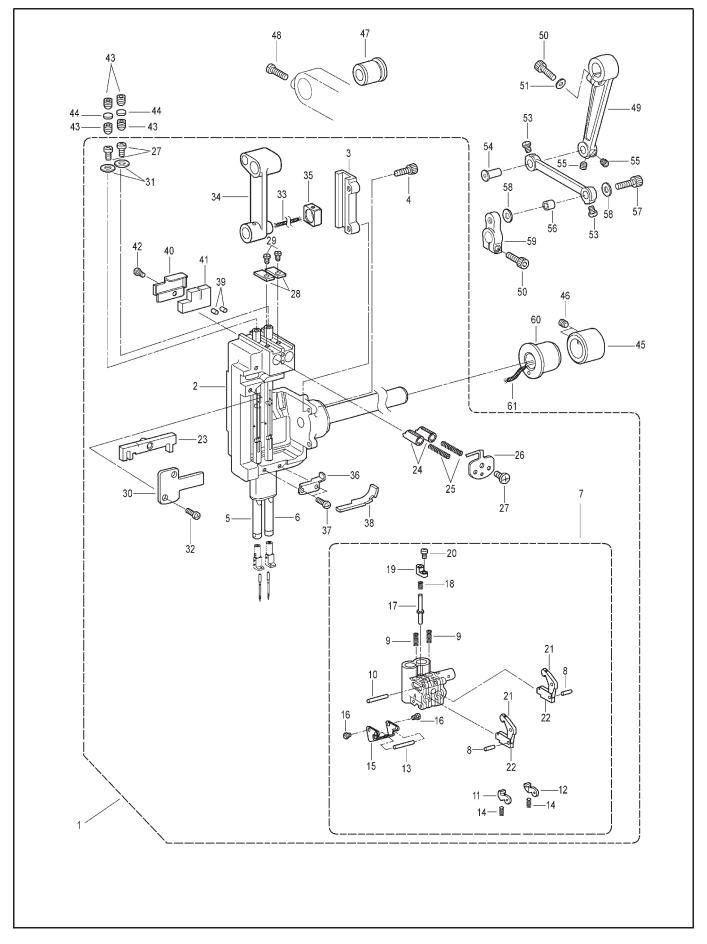
3-1.NEEDLE BAR ROCKING MECHANISM(GC9420、GC9720)



3-1. NEEDLE BAR ROCKING MECHANISM (GC9420 , GC9720)

| No. | Ref.No | Description | Qt | Note |
|-----|------------|-----------------------------|----|------|
| 1 | BXF6986909 | Needle bar rocker shaftassy | 1 | |
| 2 | BXF7256009 | Needle bar support assy | 1 | |
| 3 | BXF8636809 | Slide block slider | 1 | |
| 4 | B092609074 | Screw M4X10 | 2 | |
| 5 | BXF8635009 | Needle bar | 1 | |
| 6 | BXF7390009 | Needle bar clamp | 1 | |
| 7 | B048750294 | Screw M3.5X8 | 1 | |
| 8 | B998382009 | Wick L=50 | 1 | |
| 9 | BXF7399009 | Needle bar crank rod | 1 | |
| 10 | BXF7398009 | Slide block | 1 | |
| 11 | BXF8628009 | Needle bearing | 1 | |
| 12 | BXF8627009 | Case | 1 | |
| 13 | BXF8626009 | Washer | 1 | |
| 14 | B962716000 | Oil plug | 1 | |
| 15 | BXF6003009 | Felt support, U | 1 | |
| 16 | B048500494 | Screw M5X6 | 1 | |
| 17 | BXF7262009 | Felt support, D | 1 | |
| 18 | BX03645000 | wick L=200 | 1 | |
| 19 | BXF7258009 | Felt | 1 | |
| 20 | BXF8625009 | Set screw collar | 2 | |
| 21 | BX85840009 | Set screw M6X5 | 4 | |
| 22 | BXF8624909 | Bush, R | 1 | |
| 23 | B048500294 | Screw M5X8 | 1 | |
| 24 | B048049494 | Screw M6X16 | 1 | |
| 25 | BXF8621009 | Needle bar rocker lever , B | 1 | |
| 26 | B092048078 | Bolt M6X20 | 2 | |
| 27 | B992375008 | Washer | 1 | |
| 28 | BXF8610909 | Needle bar rocker lever, S | 1 | |
| 29 | BX87640009 | Screw M6X5 | 2 | |
| 30 | BXF6993009 | Link shaft, P | 1 | |
| 31 | B098040474 | Screw M6X6 | 2 | |
| 32 | BXF6992009 | Zigzag link bush, P | 1 | |
| 33 | B092048578 | Bolt M6X25 | 1 | |
| 34 | BXF8617009 | Washer | 2 | |
| 35 | BXF8616009 | Needle bar rock arm | 1 | |
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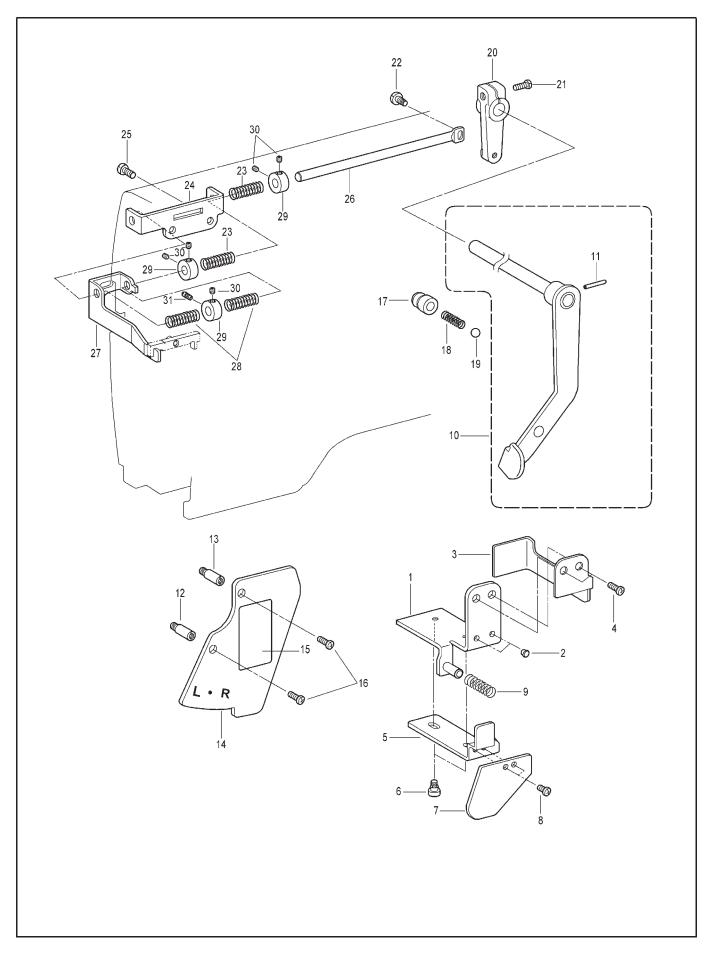
3-2NEEDLE BAR ROCKING MECHANISM (GC9450 GC9750)



3-2. NEEDLE BAR ROCKING MECHANISM (GC9450, GC9750)

| No. | Ref.No | Description | Qt | Note |
|-----|------------|---------------------------------|-----|------|
| 1 | BXF6733009 | Needle bar rocker shaft assy | 1 | |
| 2 | BXF6732009 | Needle bar base assy | 1 | |
| 3 | BXF8636809 | Slide block slider | 1 | |
| 4 | B092609074 | Bolt M4X10 | 2 | |
| 5 | BXF6728009 | Needle bar assy, L | 1 | |
| 6 | BXF6725009 | Needle bar assy, R | l i | |
| 7 | BXF6723009 | Needle bar clamp assy | 1 | |
| 8 | B961406009 | Pin 1.5x5.8 | 2 | |
| 9 | B961405009 | Clutch lever Spring | 2 | |
| 10 | B961283009 | Pin 2x15.8 | 1 | |
| 11 | BX76549009 | Clutch stopper, L | 1 1 | |
| 12 | BX76548009 | Clutch stopper, R | | |
| 13 | B961402009 | Pin 2x17.8 | | |
| | | | 1 | |
| 14 | B998401009 | Spring | 2 | |
| 15 | BXF6719009 | Spring holder | | |
| 16 | B048840794 | Screw M2.6x3 | 2 | |
| 17 | B961490009 | Pin | 1 | |
| 18 | B961499909 | Spring | 1 | |
| 19 | BXF6718009 | Pin cover | 1 | |
| 20 | B048840594 | Screw M2.6x5 | 1 | |
| 21 | B961408909 | Clutch lever assy | 2 | |
| 22 | B961407009 | Clutch stopper | 2 | |
| 23 | BX03535000 | Slide block assy | 1 | |
| 24 | BXF6527009 | Needle bar stopper | 2 | |
| 25 | B961488009 | Needle bar stopper spring | 2 | |
| 26 | BXF6714009 | Spring cover | 1 | |
| 27 | B040750494 | Screw M3.5x6 | 3 | |
| 28 | BXF6713009 | Rotate stopper,N-bar | 2 | |
| 29 | BXF6712009 | Screw SM3.5 | 2 | |
| 30 | BXF6715009 | Slide block guide plate | 1 | |
| 31 | BXF6711009 | Washer | 2 | |
| 32 | B048750294 | Screw M3.5x8 | 2 | |
| 33 | B998382009 | Wick L=50 | 1 | |
| 34 | BXF6717009 | Needle bar crank rod | 1 | |
| 35 | BXF6716009 | Slide block | 1 | |
| 36 | BXF6609009 | Felt support, D | 1 | |
| 37 | B048750494 | Screw M3.5x6 | 2 | |
| 38 | BXF6600009 | Felt | 1 | |
| 39 | B903955009 | Felt | 2 | |
| 40 | 216C300001 | Felt support | 1 | |
| 41 | BXF5873009 | Felt | | |
| 42 | B048750594 | Screw M3.5x5 | | |
| | | | | |
| 43 | B096020279 | Set screw M8x8 | 4 | |
| 44 | B956543000 | Spacer 5.3 | 2 | |
| 45 | BXF8625009 | Set screw collar | 1 | |
| 46 | BX85840009 | Set screw M6x5 | 2 | |
| 47 | BXF8624909 | Bush, R | 1 | |
| 48 | B048049494 | Screw M6x16 | 1 | |
| 49 | BXF8621009 | Needle bar rocker lever assy | 1 | |
| 50 | B092048078 | Bolt M6x20 | 2 | |
| 51 | B992375008 | Washer | 1 | |
| 52 | BXF8610909 | Needle bar rocker link | 1 | |
| 53 | BX87640009 | Screw M6x5 | 2 | |
| 54 | BXF6993009 | Needle bar rocker Link shaft, P | 1 | |
| 55 | B098040474 | Set screw M6x6 | 2 | |
| 56 | BXF6992009 | Zigzag link bush, P | 1 | |
| 57 | B092048578 | Bolt socket M6x25 | 1 | |
| 58 | BXF8617009 | Washer | 2 | |
| 59 | BXF8616009 | Needle bar rock arm | 1 | |
| 60 | BXF5778009 | Bush, L | 1 | |
| | BX62806000 | Wick 4x4 L=150 | 1 | |
| 61 | D/\0200000 | VVIOR TXT L=100 | | |

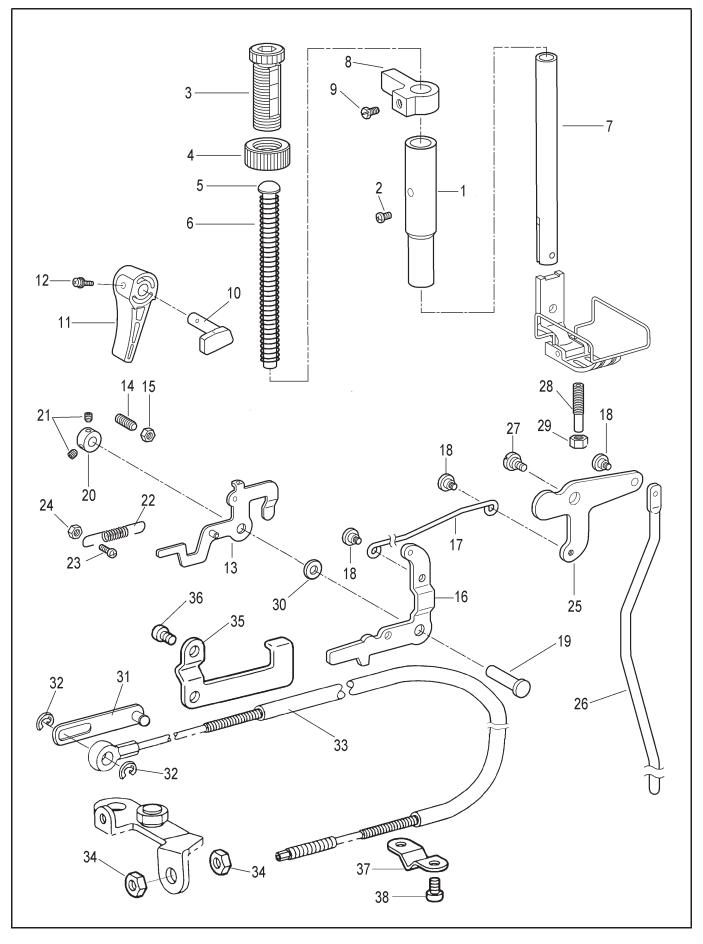
4.NEEDLE BAR FLIP-UP MECHANISM(GC9450、GC9750)



4. NEEDLE BAR FLIP-UP MECHANISM (GC9450, GC9750)

| No. | Ref.No. | Description | Qt | Note |
|-----|------------|-----------------------|----|------|
| 1 | BXF6608009 | Indication plate assy | 1 | |
| 2 | B906277009 | Rubber plug 4.3 | 2 | |
| 3 | BXF5774009 | Holder plate cover | 1 | |
| 4 | B048509094 | Screw M5x10 | 2 | |
| 5 | BXF6606009 | Push lever | 1 | |
| 6 | BXF6669009 | Shoulder screw M4 | 2 | |
| 7 | BXF6605009 | Push lever plate | 1 | |
| 8 | B048750594 | Screw M3.5x5 | 2 | |
| 9 | BXF5777009 | Spring | 1 | |
| 10 | BXF6604009 | Stop lever shaft assy | 1 | |
| 11 | B063709268 | Pin AW3x18 | 1 | |
| 12 | BXF6602009 | Stud, L | 1 | |
| 13 | BXF6601009 | Stud, S | 1 | |
| 14 | BXF6699909 | Flip-up holder plate | 1 | |
| 15 | B922222090 | Label | 1 | |
| 16 | B048500294 | Screw M5x8 | 2 | |
| 17 | BXF6698009 | Ball guide bush | 1 | |
| 18 | B950280009 | Spring | 1 | |
| 19 | B039047550 | Bearing ball 1/4 | 1 | |
| 20 | BXF6697009 | Lever shaft arm | 1 | |
| 21 | B048509694 | Screw M5x14 | 1 | |
| 22 | BX87337009 | Screw M4 | 1 | |
| 23 | BXF6696009 | Spring | 2 | |
| 24 | BXF6695009 | Slide shaft bracket | 1 | |
| 25 | B048500294 | Screw M5x8 | 2 | |
| 26 | BX03522909 | Slide shaf | 1 | |
| 27 | BXF6694009 | Support plate | 1 | |
| 28 | B961247009 | Spring | 2 | |
| 29 | BXF6693009 | Set screw collar | 3 | |
| 30 | B096600978 | Screw M4x4 | 5 | |
| 31 | BXF6692009 | Guide screw | 1 | |
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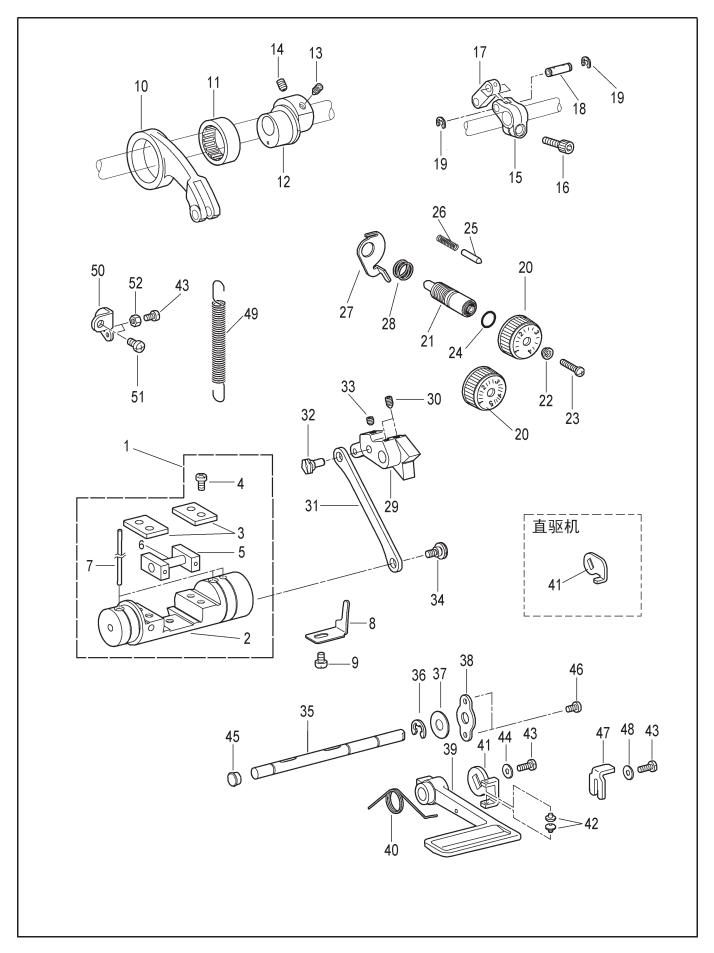
5.PRESSER FOOT MECHANISM



5. PRESSER FOOT MECHANISM

| No. | Ref.No. | Description | Qt | Note |
|-----|------------|-------------------------------|----|-------------------|
| 1 | BXF8615009 | Presser bar bush | 1 | |
| 2 | B048500294 | Screw M5X8 | 1 | |
| 3 | BXF9936009 | Screw M14 | 1 | |
| 4 | BXF9935009 | Nut M14 | 1 | |
| 5 | B969802009 | Presser bar guide | 1 | |
| 6 | BX03764909 | Presser spring | 1 | |
| 7 | BXF8614009 | Presser bar | 1 | |
| 8 | BXF8612009 | Presser bar guide bracket | 1 | |
| 9 | BX85821009 | Bolt M6X10 | 1 | |
| 10 | BXF8611009 | Presser bar lifting crank | 1 | |
| 11 | BX79004009 | lifting lever | 1 | |
| 12 | S150183001 | Screw M3.5X12 | 1 | |
| 13 | BX03757009 | Tension release plate assy | 1 | |
| | BX03759009 | Tension release plate assy | 1 | With direct drive |
| 14 | B098049278 | Screw M6X18 | 1 | |
| 15 | S150559002 | Nut M6 | 1 | |
| 16 | BXF8509009 | Presser bar lifting lever | 1 | |
| 17 | BXF8508009 | Knee lifter connecting rod | 1 | |
| 18 | BXF9931009 | Shoulder screw M5 | 3 | |
| 19 | BX03761009 | Pin | 1 | |
| 20 | BXF8506009 | Set screw collar | 1 | |
| 21 | B098500574 | Screw M5X5 | 2 | |
| 22 | BX03755059 | Spring | 1 | |
| 23 | B048509694 | Screw M5X14 | 1 | |
| 24 | B089500904 | Nut M5 | 1 | |
| 25 | BXF8504009 | Knee lifter lever | 1 | |
| 26 | BXF8503009 | Knee lifter bar | 1 | |
| 27 | BXF8945009 | Shoulderscrew M6 | 1 | |
| 28 | BXF6961009 | Adjusting screw 6 | 1 | |
| 29 | B089040704 | Nut M6 | 1 | |
| 30 | BX03750009 | Washer | 1 | |
| 31 | BX03581009 | T-release connecting rod assy | 1 | With direct drive |
| 32 | S4A0105006 | Retaining ring E3 | 2 | With direct drive |
| 33 | BXF8433009 | Tension release wire | 1 | With direct drive |
| 34 | B990949006 | Nut SM4.76 | 1 | With direct drive |
| 35 | BXF8432009 | Tension release wire holder | 1 | With direct drive |
| 36 | B048500294 | Screw M5x8 | 2 | With direct drive |
| 37 | BXF8431009 | Tension release wire holder | 1 | With direct drive |
| 38 | B048040294 | Screw M6x8 | 2 | With direct drive |
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6.FEED MECHANISM

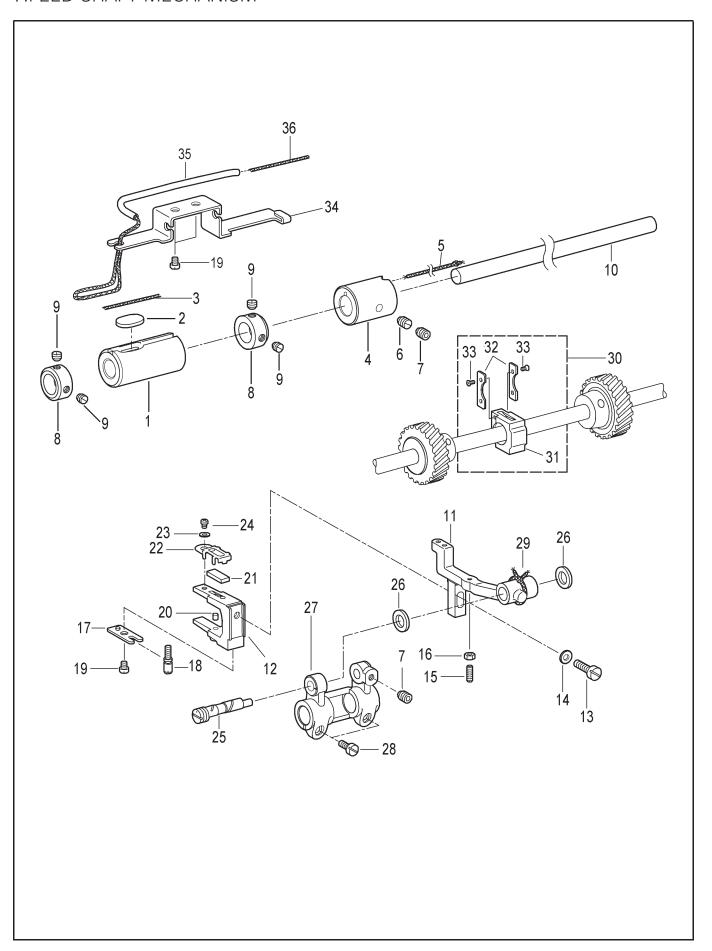


6. FEED MECHANISM

| No. | Ref.No. | Description | Qt | Note |
|-----|-------------------|------------------------------------|----|-------------------------|
| 1 | BXF7048009 | Feed regulator assy | 1 | 9420M/9720/9750/9420MD3 |
| | BXF8501009 | Feed regulator assy | 1 | 9420H/9450/9420HD3 |
| 8 | BXF8594009 | Stopeer | 1 | |
| 9 | B048040294 | Screw M6X8 | 1 | |
| 10 | B967498900 | Feed rocker connecting rod | 1 | |
| 11 | B992156000 | Ne ed le bearing | 1 | |
| 12 | BXF8592009 | Feed cam 5 | 1 | 9420/9450 |
| | BXF8319009 | Feed cam 7 | 1 | 9720/9750 |
| 13 | BXF8525009 | Set screw M6X10 | 1 | |
| 14 | BX85874009 | Screw M6X10 | 1 | |
| 15 | BXF8589009 | Feed crank 5 | 1 | 9420/9450 |
| | BXF8317009 | Feed crank 7 | 1 | 9720/9750 |
| 16 | B092048078 | Bolt M6X20 | 1 | |
| 17 | B 96 749 7059 | Feed link | 1 | |
| 18 | B967494009 | Shaft | 1 | |
| 19 | B062040768 | Retaining ring E6 | 2 | |
| 20 | BX72688002 | Stitch length dial 4 | 1 | 9420M |
| | BX72683002 | Stitch length dial 5 | 1 | 9420H 9450 |
| | BX72682009 | Stitch length dial 7 | 1 | 9720 9750 |
| 21 | BXF7054009 | Stitch length adjusting head screw | 1 | |
| 22 | B968364008 | Bush | 1 | |
| 23 | B 98 165 2908 | Srew SM4.76 | 1 | |
| 24 | 124510003 | O ring | 1 | |
| 25 | BX50012909 | Pin | 1 | |
| 26 | B900782009 | Notch spring | 1 | |
| 27 | BXF8587009 | Dial lock lever | 1 | |
| 28 | BX71270909 | Spring | 1 | |
| 29 | BXF8585009 | Stitch length dial 4 | 1 | 9420 9450 |
| | BXF8314009 | Stitch length dial 5 | 1 | 9720 9750 |
| 30 | B094049079 | Screw M6X10 | 2 | |
| 31 | BXF8584009 | Stitch length link | 1 | |
| 32 | BXF8583009 | Eccentric shaft | 1 | |
| 33 | B 09 804 0474 | Screw M6X6 | 1 | |
| 34 | BXF8582909 | Shoulder screw M6 | 1 | |
| 35 | BXF8581909 | Shaft TR | 1 | |
| 36 | B062020768 | Retaining ring E8 | 1 | |
| 37 | B 08 59 00 978 | Washer plain S10 | 1 | |
| 38 | BXF8570009 | Washer | 1 | |
| 39 | BX03736901 | Reverse stitching lever | 1 | |
| 40 | BXF8579009 | Spring | 1 | |
| 41 | BXF7043009 | Leverguide | 1 | With direct drive |
| | BXF8569009 | Lever guide | 1 | Without direct drive |
| 42 | BX62743000 | Rubber | 2 | |
| 43 | B 04 850 9894 | Screw M5X12 | 3 | |
| 44 | B 08 505 0774 | Washer plain M5 | 1 | |
| 45 | B 90 395 5009 | Rubber plug 10.5 | 1 | |
| 46 | B 04 850 0294 | Screw M5X8 | 2 | |
| 47 | BXF8578009 | Stopper | 1 | |
| 48 | B 08 505 0874 | Washer plain M5 | 1 | |
| 49 | BX03734009 | Spring | 1 | |
| 50 | BXF8577009 | Spring hook | 1 | |
| 51 | B 048040294 | Screw M6X8 | 1 | |
| 52 | B 08 95 0 0 9 0 4 | Nut M5 | 1 | |

^{*} The part circled by $\begin{tabular}{c} \end{tabular}$ is supplied in complete set.

7.FEED SHAFT MECHANISM

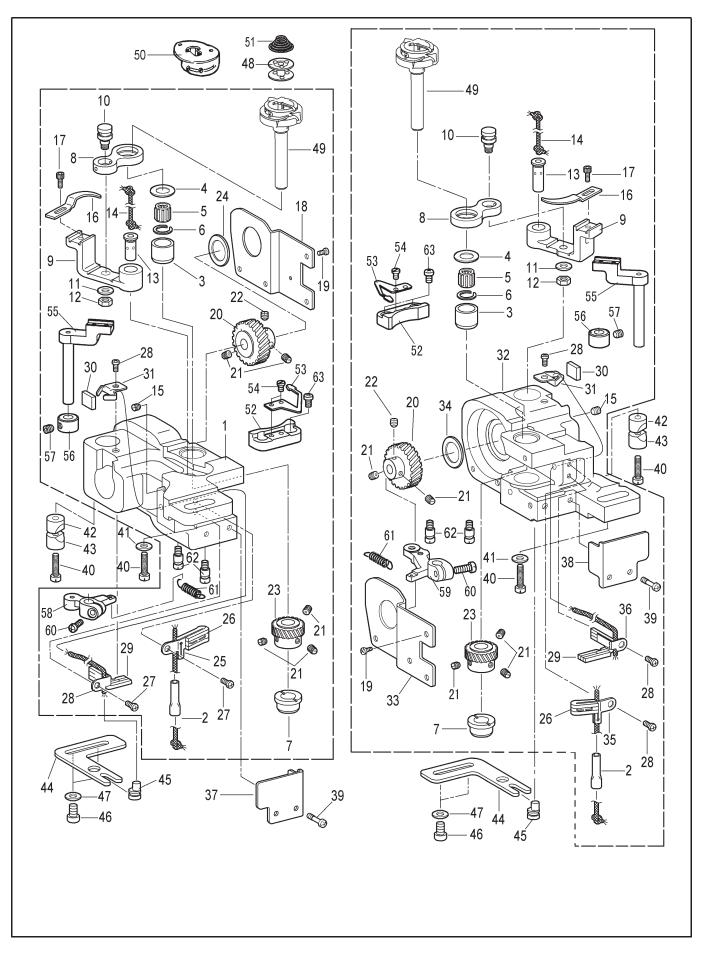


7. FEED SHAFT MECHANISM

| No. | Ref.No. | Description | Qt | Note |
|-----|------------|---------------------------|----|---|
| 1 | BXF7255009 | Feed rock shaft Bush L | 1 | |
| 2 | BXF7145009 | Felt | 1 | |
| 3 | BXF6082009 | Wick 4X4 L=450 | 1 | |
| 4 | BXF8567009 | Feed rock shaft Bush R | 1 | |
| 5 | B902208009 | Wick 4X4 L=250 | 1 | |
| 6 | BXF8566009 | Screw M6 | 1 | |
| 7 | B098040474 | Screw M6X6 | 2 | |
| 8 | BXF8564009 | Set screw collar | 2 | |
| 9 | BX87459009 | Screw M6X6 | 4 | |
| 10 | BXF7260009 | Feed rocker shaft | 1 | |
| 11 | BXF7246009 | Feed bar | 1 | 9420M/H 9450M/H 9720M/H 9750M/H |
| | BXF7243009 | Feed bar | 1 | 942 0M/HD 3/9450M/HD3/9750 W/HD3 / 972 0M/HD3 |
| 12 | BXF7224009 | Feed forked connection | 1 | |
| 13 | BXF8183009 | Screw M6X14 | 1 | |
| 14 | B085040978 | Washer S6 | 1 | |
| 15 | BXF8544009 | Screw M3.5 | 1 | |
| 16 | B089750904 | Nut 3.5 | 1 | |
| 17 | BXF8557009 | Forked plate | 1 | |
| 18 | BXF8556009 | Adjusting screw, hight | 1 | |
| 19 | B048600494 | Screw M4X6 | 3 | |
| 20 | BXF7110009 | Felt | 1 | |
| 21 | BXF7223009 | Felt | 1 | |
| 22 | BXF7222009 | Felt holder | 1 | |
| 23 | B085070978 | Washer S3 | 1 | |
| 24 | B048700694 | Screw M3X4 | 1 | |
| 25 | BXF8550009 | Shaft for feed bar crank | 1 | |
| 26 | BXF8559009 | Thrust ring | 2 | |
| 27 | BXF8555009 | Feed rock shaft crank | 1 | |
| 28 | BXF8182009 | Screw M5X12 | 2 | |
| 29 | BXF6085009 | Wick 4X4 L=180 | 1 | |
| 30 | BXF8204009 | Feed bar slide block assy | 1 | |
| 34 | BXF6001009 | Wick support | 1 | |
| 35 | BXF6099009 | Oil tube L=100 | 1 | |
| 36 | BXF8386009 | Wick 4x4 L=400 | 1 | |
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^{*} The part circled by [___] is supplied in complete set.

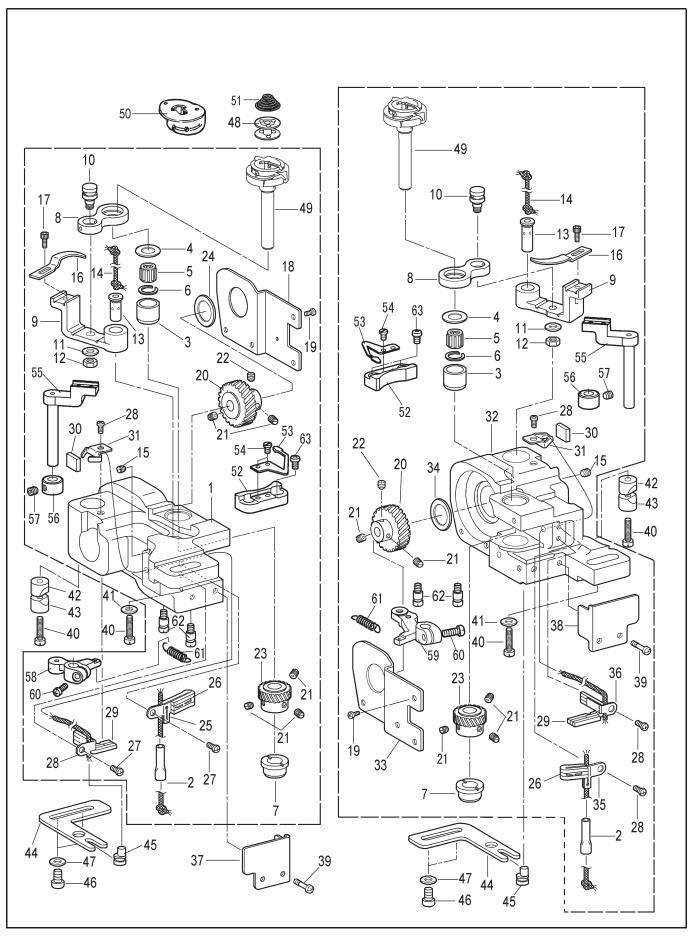
8. ROTARY HOOK MECHANISM



8. ROTARY HOOK MECHANISM

| No. | Ref.No. | Description | Qt | Note |
|----------|--------------------------|-------------------------------------|----|-------------------------|
| 1 | BXF7155009 | Left hook saddle | 1 | 9420M/H 9450M/H |
| | BXF7151009 | Left hook saddle | 1 | 9720M/H 9750M/H |
| 2 | BXF7149009 | Pipe | 2 | |
| 3 | BXF6081009 | Rotary hook shaft bush, U | 2 | 9420/9450 |
| | BX01851009 | Rotary hook shaft bush, U | 2 | 9720 <i>/</i> 9750 |
| 4 | BX01840009 | Thrust ring, A1.2MM | 2 | |
| | BXF6072009 | Thrust ring, 1.0MM | 2 | |
| | BX01849009 | Thrust ring, B1.4MM | 2 | |
| | BXF6666009 | Thrust ring, B 0.8MM | 2 | |
| 5 | BX03680000 | Ne ed le bearing | 2 | |
| 6 | BX03691009 | Retaining ring | 2 | |
| 7 | BXF8553009 | Rotary hook shaft bush, D | 2 | |
| 8 | B998418909 | Opener link | 2 | 9420/9450 |
| | B950143909 | Opener link | 2 | 9720/9750 |
| 9 | BXF7251009 | Opener lever | 2 | 9420/9450 |
| | BXF7249009 | Opener lever | 2 | 9720/9750 |
| 10 | BXF8540009 | Shaft | 2 | |
| 11 | B085390978 | Washer S4.76 | 2 | |
| 12 | B089500794 | Nut M5 | 2 | |
| 13 | BXF7221909 | O-lever shaft | 2 | |
| 14 | BXF6084009 | Wick 4X4 L=100 | 2 | |
| 15 | B098500574 | Screw M5X5 | 2 | |
| 16 | BX72898009 | Opener | 2 | |
| 17 | B956145009 | Screw SM3.57X8 | 2 | |
| 18 | BXF8548909 | Rotary hook base cover, L | 1 | |
| 19 | B048700498 | Screw M3X6 | 8 | |
| 20 | 216000014 | Spiral gear screw assy, B | 2 | |
| 21 | BXF8536009 | Screw M6 | 10 | |
| 22 | BXF8535009 | Screw M6 | 2 | |
| 23 | 216000015 | Spiral gear screw assy, S | 2 | |
| 24 | BXF7056009 | Washer, L | 1 | |
| 25 | BXF7218009 | Felt support, UL | 1 | |
| 26 | BXF7217009 | Felt | 2 | |
| 27 | B048600494 | Screw M4X6 | 6 | |
| 28 | BXF7148009 | Felt support, DL | 1 | |
| 29 | BXF7146009 | Felt | 2 | |
| 30 | BXF6098009 | Felt | 2 | |
| 31 | BXF7216009 | Felt support | 2 | 0.4201.4/11 0.4501.4/11 |
| 32 | BXF7154009 | Right hook saddle | 1 | 9420M/H 9450M/H |
| 20 | BXF7140009 | Right hook saddle | 1 | 9720M/H 9750M/H |
| 33 34 | BXF8547909 BXF8531009 | Rotary hook base cover, R Washer | 1 | |
| 34 | DVI 0001009 | v vasi iei | ' | |
| | | | | |
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| <u> </u> | | <u> </u> | | |

8.ROTARY HOOK MECHANISM

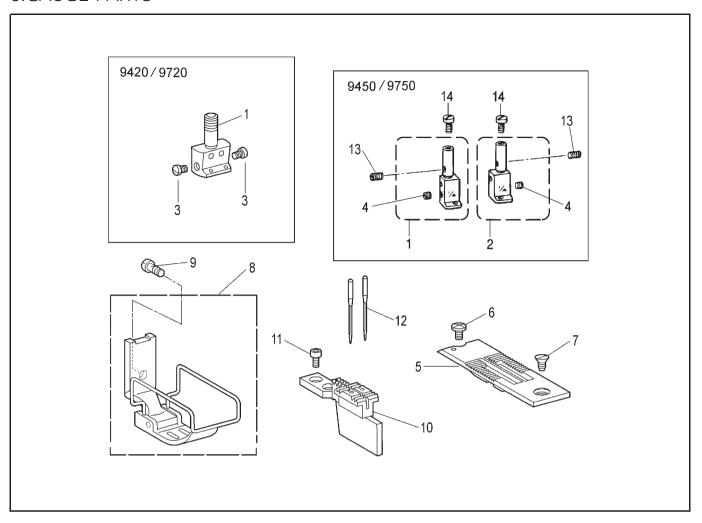


8. ROTARY HOOK MECHANISM

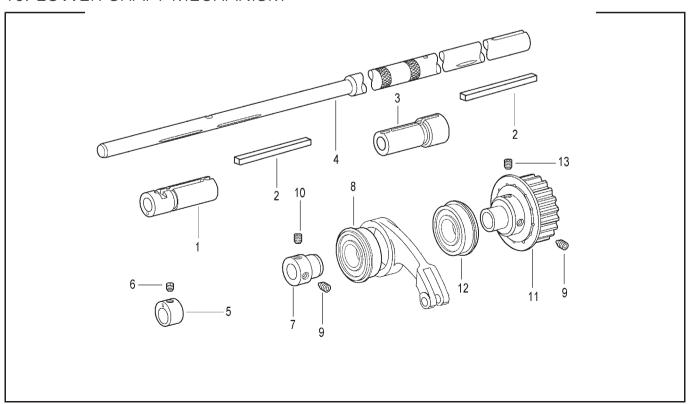
| No. | Ref.No. | Description | Qt | Note |
|-----|--------------|--------------------------------|----|-----------------------|
| 35 | BXF7196009 | Felt support, UR | 1 | |
| 36 | BXF7147009 | Felt support, DR | 1 | |
| 37 | BXF7122009 | Rotary hook base cover, FL | 1 | |
| 38 | BXF7194009 | Rotary hook base cover, FR | 1 | |
| 39 | BXF8285009 | Screw M4X12 | 4 | |
| 40 | BXF8554009 | Screw M6X25 | 4 | |
| 41 | B9951 630 09 | Washer 6.35 | 2 | |
| 42 | BXF8388009 | Bush, U | 2 | |
| 43 | BXF8545009 | Bush, D | 2 | |
| 44 | BXF8543009 | Needle upper positioning plate | 2 | |
| 45 | BXF8542009 | Needle upper positioning shaft | 2 | |
| 46 | B048049094 | Screw M6X10 | 4 | |
| 47 | B085040974 | Washer S6 | 4 | |
| 48 | BX09182959 | Bobbin | 2 | 9420/9450 |
| | BX01825059 | Bobbin | 2 | 9720/9750 |
| 49 | BX03685999 | Rotary hook assy | 2 | 9420M |
| | BX03684999 | Rotary hook assy | 2 | 9420H |
| | BX03542999 | Rotary hook assy | 2 | 9450 M/H |
| | BX01847908 | Rotary hook assy | 2 | 9720 M/H |
| | BX01845908 | Rotary hook assy | 2 | 9750 M/H |
| | BX01846908 | Rotary hook assy | 2 | 9720 M/HD3 |
| | BX01844908 | Rotary hook assy | 2 | 9750 M/HD3 |
| | BX03683999 | Rotary hook assy | 2 | 9420 M/HD3 |
| | BX03541009 | Rotary hook assy | 2 | 9450 M/HD3 |
| 50 | BX03360009 | Bobbin bush | 2 | 9420 M/HD3 |
| | BX03369009 | Bobbin bush | 2 | 9450 M/H |
| | BX01831009 | Bobbin bush | 2 | 9750M/H |
| | BX03368009 | Bobbin bush | 2 | 9450 M/HD3 |
| | BX01832009 | Bobbin bush | 2 | 9720M/HD3 |
| | BX01820009 | Bobbin bush | 2 | 9750 M/HD3 |
| 51 | B962408009 | Bobbin spring | 2 | 9420 M/HD3 9450M/HD3 |
| | B954553009 | Bobbin spring | 2 | 9720 9750 |
| | BX01824000 | Bobbin spring | 2 | 9720 M/HD3 9750 M/HD3 |
| 52 | BXF8434009 | Movable knife bracket | 2 | With direct drive |
| 53 | BX03585009 | Spring | 2 | With direct drive |
| 54 | B969566009 | Screw SM3.18-40x3 | 4 | With direct drive |
| 55 | BXF7198009 | Movable knife lever | 2 | With direct drive |
| 56 | BXF8435009 | Set screw collar | 2 | With direct drive |
| 57 | BX87459009 | Set screw M6x6 | 2 | With direct drive |
| 58 | BXF8439009 | Thread trimmer lever L | 1 | With direct drive |
| 59 | BXF8430009 | Thread trimmer leverR | 1 | With direct drive |
| 60 | B048509894 | Screw M5x12 | 2 | With direct drive |
| 61 | BXF8284009 | Spring | 2 | With direct drive |
| 62 | BXF8393009 | Stopper screw | 4 | With direct drive |
| 63 | S1 50237006 | Screw M4x8 | 4 | With direct drive |

^{*} The part circled by [___] is supplied in complete set.

9.GAUGE PARTS



10. LOWER SHAFT MECHANISM



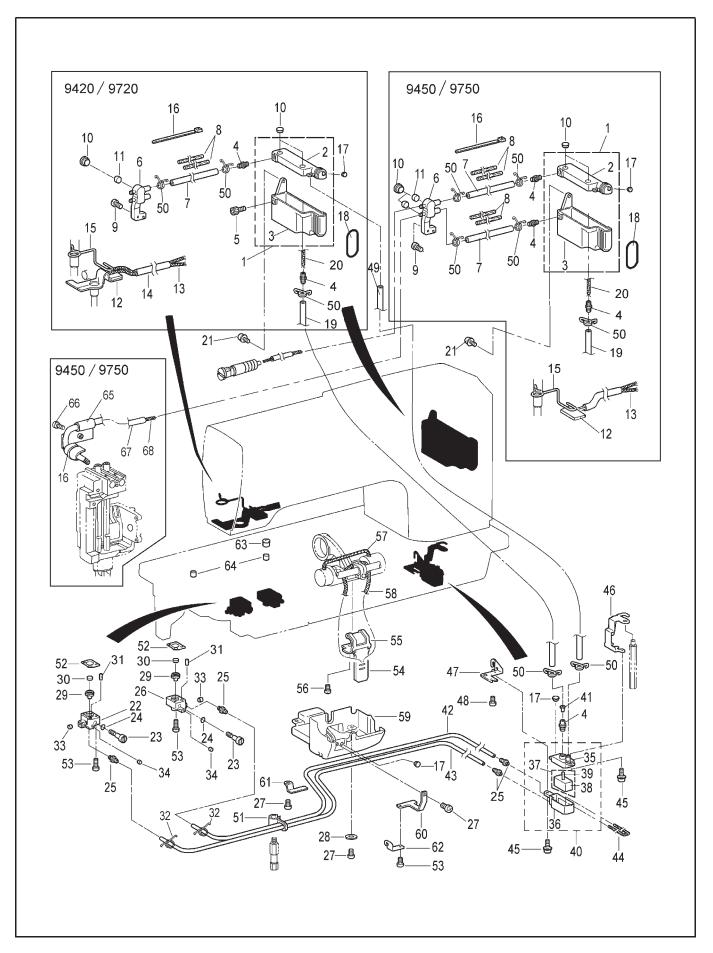
9. GAUGE PARTS

| No. | Ref.No. | Description | Qt | Note |
|-----|------------|-------------------------|----|--|
| 1 | B998400009 | Needle clamp 1/4 | 1 | 9420/9720 |
| | BX95373009 | Left Needle clamp assy | 1 | 945 0/975 0 |
| 2 | BX95372009 | Right Needle clamp assy | 1 | 945 0/975 0 |
| 3 | B994787009 | Screw SM3.57 | 2 | 942 0/972 0 |
| 4 | B097440698 | Screw SM3.18x4 | 2 | 9450/9750 |
| 5 | B993743009 | Needle plate 1/4 | 1 | 9420H 9450M/H 9720M/H 9750M/H |
| | B998406009 | Needle plate 1/4 | 1 | 942 0M |
| | B955257009 | Needle plate 1/4 | 1 | 9420 HD3 9450M/HD3 9720M/HD3 9750M/HD3 |
| | B952327009 | Needle plate 1/4 | 1 | 9420MD3 |
| 6 | BX99866009 | Screw SM4.37 | 2 | |
| 7 | B900078006 | Screw SM4.37-40X8 M H | 1 | |
| 8 | BXF6061009 | Presser foot assy | 1 | 9420M/H 9450M/H |
| | BXF6058009 | Presser foot assy | 1 | 9720 9750 |
| | BXF6059009 | Presser foot assy | 1 | 9420MD3 9450MD3 |
| | BXF6050009 | Presser foot assy | 1 | 9420HD3 9450HD3 |
| 9 | B997050009 | Screw SM3.5 | 1 | |
| 10 | B998440009 | Feed dog 1/4 | 1 | Without direct drive |
| | B962305009 | Feed dog 1/4 | 1 | 9420MD3/9450MD3/9750MD3/9720MD3 |
| | 216M00003 | Feed dog 1/4 | 1 | 9720HD3/9420HD3/9450HD3/9750HD3 |
| 11 | BX03616009 | Screw SM3.18X7 | 2 | |
| 12 | 058310010 | Needle DP X5 14# | 2 | With M/MD3 |
| | 048200005 | Needle DP X5 18# | 2 | With H/HD3 |
| 13 | BX97025009 | Screw SM3.18x4 | 2 | |
| 14 | B961279909 | Screw SM3.18 | 2 | |

10. LOWER SHAFT MECHANISM

| No. | Ref.No. | Description | Qt | Note |
|-----|------------|------------------------|----|----------------------|
| 1 | BXF7210009 | Bush, L | 1 | |
| 2 | BX72629000 | Felt | 2 | |
| 3 | BXF7219009 | Bush, R | 1 | |
| 4 | BXF8539009 | Lower shaft | 1 | |
| 5 | BXF8340009 | Feed dog lift cam | 1 | Without direct drive |
| | BXF8529009 | Feed dog lift cam | 1 | With direct drive |
| 6 | BXF8535009 | Screw M6 | 1 | |
| 7 | BXF8526009 | Ball bearing bush | 1 | |
| 8 | S150866037 | Ball bearing 6004ZZNR | 1 | |
| 9 | BXF8525009 | Set screw M6X10 | 2 | |
| 10 | BX85874009 | Screw M6X10 | 1 | |
| 11 | BXF8523009 | Timing pulley assy, D | 1 | |
| 12 | S150866006 | Ball bearing, 6204ZZNR | 1 | |
| 13 | BXF6897009 | Set screw M6X10 | 1 | |
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11.LUBRICATION

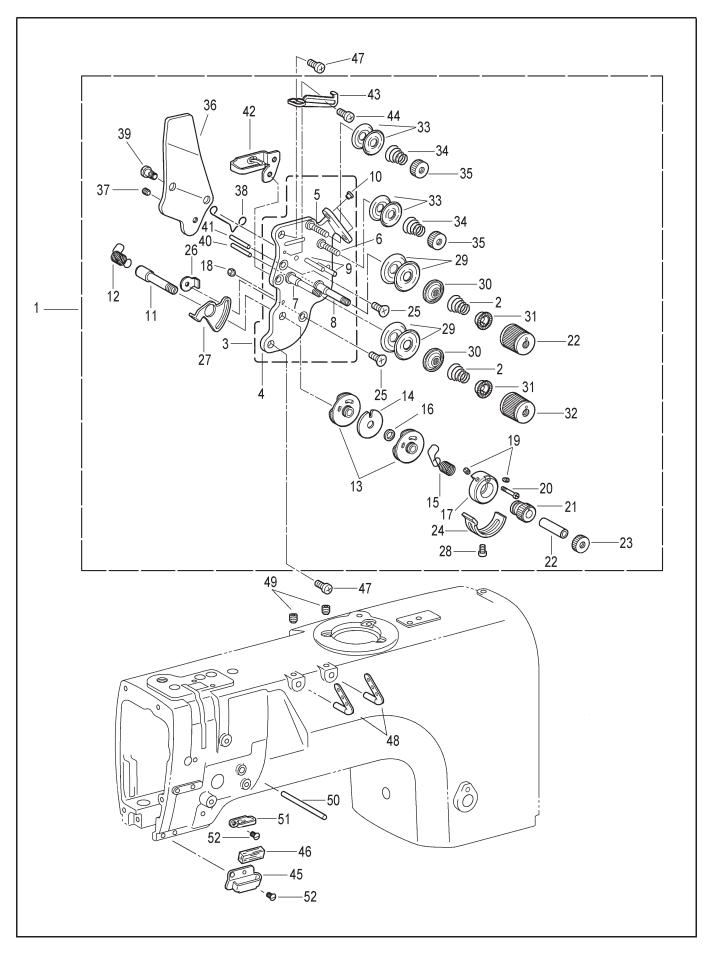


11. LUBRICATION

| No. | Ref.No. | Description | Qt | Note |
|-----|---------------|---------------------------|-----|-----------------|
| 1 | BXF6805009 | Oil tank assy | 1 | |
| 4 | BXF7060009 | Oil feeding mouth 8.6 | 3 | 9450/9750 Qt. 4 |
| 5 | B092029874 | Bolt M8X12 | 1 | 9420/9720 |
| 6 | BXF7164009 | Oil terminal | 1 | 3 .2 9, 3 / 2 3 |
| 7 | BXF81 540 09 | Oil tube L=135 | i i | 9450/9750 Qt. 2 |
| 8 | BXF8153009 | Felt | 2 | 9450/9750 Qt. 4 |
| 9 | B048500294 | Screw M5X8 | 1 | 0 10 0, 0 7 0 0 |
| 10 | BXF8181009 | Rubber plug 12.5 | 3 | 9450/9750 Qt. 4 |
| 11 | BX72844000 | Felt | 1 | 9450/9750 Qt. 2 |
| 12 | BXF6895009 | Felt assy | 1 1 | 9420/9720 |
| | BXF5886009 | Felt assy | 1 | 9450/9750 |
| 13 | 216000007 | Wick 1100 | 1 | 0.00,0700 |
| 14 | 216000008 | Oil tube 380 | 1 | |
| 15 | BXF6077009 | Felt support | 1 | |
| 16 | W060402029 | Nylon string 3 X80 | 2 | 9450/9750 Qt. 3 |
| 17 | B906650909 | Rubber plug 8 | 2 | 0 .0 s, 0 / 0 0 |
| 18 | B029072030 | Oring P38 | 1 | |
| 19 | BXF8387009 | Oil tube L=210 | 1 | |
| 20 | BXF8386009 | Wick L=400 | 1 1 | |
| 21 | S150182001 | Bolt M5X10DB | 2 | |
| 22 | BXF7214009 | Oil block, L | 1 | |
| 23 | BXF8511009 | Oil adjusting screw | 2 | |
| 24 | B029006030 | Oring P4 | 2 | |
| 25 | BXF7963009 | Oil feeding pipe 2.5 | 4 | |
| 26 | BXF7212009 | Oil block, R | 1 | |
| 27 | B048049094 | Screw M6X10 | 3 | |
| 28 | B085040874 | Washer M6 | 1 | |
| 29 | BXF7049009 | Rubber packing | 2 | |
| 30 | BXF8383909 | Rotary hook shaft felt | 2 | |
| 31 | BX05864000 | Felt | 2 | |
| 32 | BXF6502009 | Tube clip | 4 | |
| 33 | B960783009 | Rubber cap 6.3 | 2 | |
| 34 | B968836909 | Rubber cap 4.2 | 2 | |
| 40 | BXF7073009 | Sub-tank assy | 1 | |
| 41 | BXF7040009 | Valve packing | i i | |
| 42 | BXF8514009 | Oil tube L=400 | 1 | |
| 43 | BXF8513009 | Oil tube L=500 | 1 1 | |
| 44 | BXF8512009 | Felt | 1 | |
| 45 | S150182002 | Screw pan M4X8DA | 2 | |
| 46 | BXF7065909 | Sub-tank setting plate, A | 1 | |
| 47 | BXF7064009 | Sub-tank setting plate, B | 1 | |
| 48 | B048040294 | Screw M6X8 | 2 | |
| 49 | BXF7066009 | Oil tube, L=242 | 1 | |
| 50 | BXF7055909 | Tube clip | 5 | 9450/9750 Qt.7 |
| 51 | BXF7063009 | Tube support | 1 | |
| 52 | BXF7187009 | Rotary hook base packing | 2 | |
| 53 | B 04 860 9494 | Screw M4X6 | 5 | |
| 54 | BXF8406009 | Felt | 1 | |
| 55 | BXF8405009 | Felt plate | 1 | |
| 56 | B 04 850 0494 | Screw M5X6 | 1 | |
| 57 | BXF6084009 | Wick 4X4 L=100 | 1 | |
| 58 | B902209009 | Wick 4X4 L=350 | 1 | |
| 59 | BXF8404909 | Box | 1 | |
| 60 | BXF7062909 | Tube support A | 1 | |
| 61 | BXF7061009 | Tube support B | 1 | |
| 62 | BXF6096009 | Tube guide | 1 | |
| 63 | B960210001 | Oil cap | 1 | |
| 64 | B998357009 | Felt | 2 | |
| 65 | BXF5956009 | Oil support | 1 | 9450 9750 |
| 66 | B 04 850 9094 | Screw M5x10 | 1 | 9450 9750 |
| 67 | BX61487000 | Oil tube L=280 | 1 | 9450 9750 |
| 68 | BX62910000 | Wick 4X4 L=380 | 1 | 9450 9750 |
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^{*} The part circled by $\begin{tabular}{c}$ is supplied in complete set.

12.THREADING MECHANISM

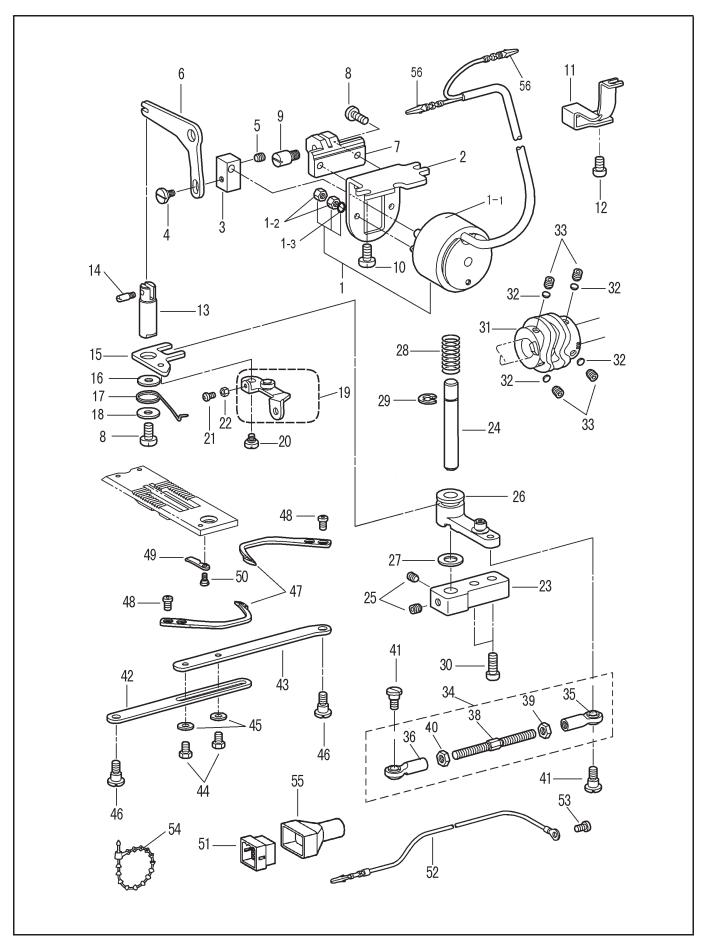


12. THREADING MECHANISM

| No. | Ref.No. | Description | Qt | Note |
|-----|------------|------------------------|----|----------|
| 1 | BXF7693009 | Thread tension assy | 1 | |
| | BXF8403009 | Thread tension assy | 1 | ₽ |
| 2 | BXF7695009 | Spring | 2 | |
| | BXF7694009 | Spring | 2 | |
| 3 | BXF6898009 | Tension set plate | 1 | |
| 11 | BXF8497009 | Tension stud | 1 | |
| 12 | BXF8496009 | Spring, L | 1 | |
| 13 | BXF8495009 | Guide assy | 2 | |
| 14 | BXF8491009 | Spacer | 1 | |
| 15 | BXF8487009 | Spring, R | 1 | |
| 16 | BXF8480009 | Collar | 1 | |
| 17 | BXF8489009 | Stopper support | 1 | |
| 18 | B089700904 | Nut M3 | 1 | |
| 19 | BXF8484009 | Screw M3.5 | 2 | |
| 20 | BXF8486009 | Set screw | 1 | |
| 21 | BXF8485009 | Adjusting thumb | 1 | |
| 22 | BXF8483009 | Collar | 1 | |
| 23 | BXF8482009 | Nut | 1 | |
| 24 | BXF8481009 | Stopper | 1 | |
| 25 | B049750494 | Screw M3.5 X6 | 3 | |
| 26 | BXF8286009 | Nut M3.5 | 1 | |
| 27 | BXF8470009 | Stopper | 1 | |
| 28 | B048750598 | Screw M3.5X5 | 1 | |
| 29 | B965664009 | Disc | 4 | |
| 30 | B951205009 | Tension disc presser | 2 | |
| 31 | BX80429000 | Washer | 2 | |
| 32 | BX80428905 | Tension nut | 2 | |
| 33 | B966506009 | Thread guide disc | 4 | |
| 34 | B956540009 | Pre-tension spring, A | 2 | |
| 35 | B955590009 | Tension nut | 2 | |
| 36 | BXF8478009 | Tension release plate | 1 | |
| 37 | B098500574 | Screw M5X5 | 1 | |
| 38 | BX72836009 | T-release spring | 1 | |
| 39 | BXF8477009 | Screw M3.5 | 2 | |
| 40 | BXF6504009 | Tension release pin, L | 1 | |
| 41 | BXF6503009 | Tension release pin, R | 1 | |
| 42 | BXF8476009 | Thread guide, U | 1 | |
| 43 | BXF8475009 | Thread quantity adjust | 1 | |
| 44 | B048700494 | Screw M3X6 | 1 | |
| 45 | BXF8471009 | Thread guide, M | 1 | |
| 46 | B996169009 | Felt | 1 | |
| 47 | B048500294 | Screw M5X8 | 2 | |
| 48 | BXF8474009 | Thread retainer | 2 | |
| 49 | B098049074 | Screw M6X10 | 2 | |
| 50 | BXF8473009 | Tension release bar | 1 | |
| 51 | BXF8472009 | Thread guide | 1 | |
| 52 | BXF8460009 | Screw M5X8 | 2 | |
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^{*} The part circled by [___ is supplied in complete set.

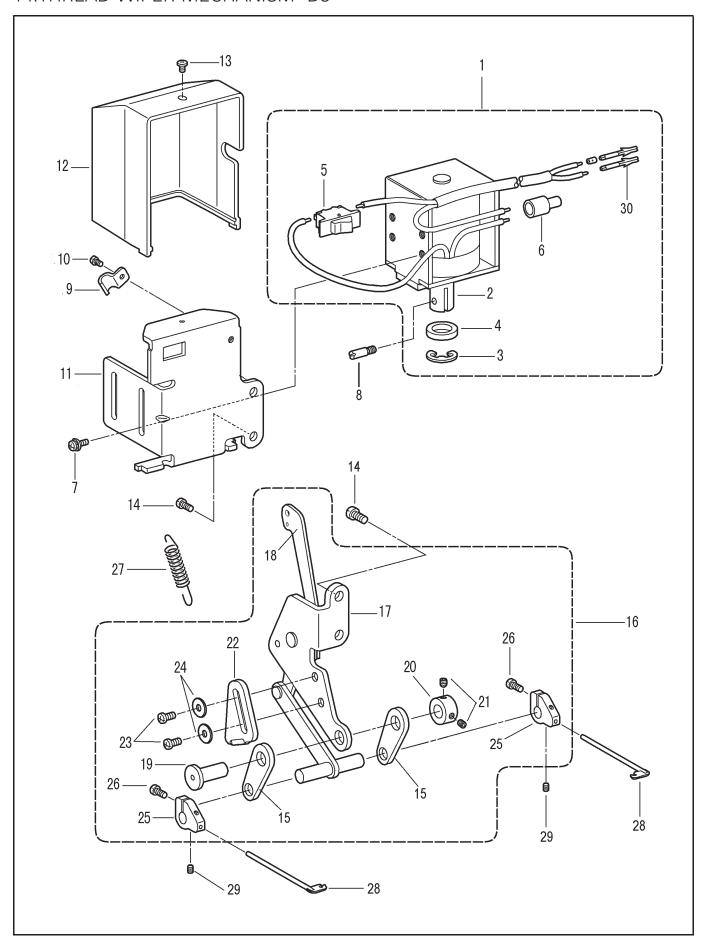
13.THREAD TRIMMER MECHANISM D3



13. THREAD TRIMMER MECHANISM D3

| No. | Ref.No. | Description | Qt | Note |
|----------|--------------------------|---------------------------------|--------|------|
| 1 | BXF8468009 | Thread trimmer solenoid assy | 1 | |
| 1–1 | BXF5469009 | Solenoid | 1 | |
| 1–2 | S120501003 | Nut M4 | 2 | |
| 1–3 | S8A3103011 | Washer | 2 | |
| 2 | BXF8467009 | Thread trimmer solenoid bracket | 1 | |
| 3 | BXF8466009 | Solenoid joint | 1 | |
| 4 | BXF8465009 | Shoulder screw M5 | 1 | |
| 5 | B098500574 | Screw M5X5 | 1 | |
| 6 | BXF8464009 | Solenoid lever | 1 | |
| 7 | BXF8382009 | Solenoid leverb racket | 1 | |
| 8 | B048509094 | Screw M5X10 | 3 | |
| 9 | BXF8463009 | Solenoid lever shaft | 1 | |
| 10 | B048049094 | Screw M6X10 | 2 | |
| 11 | BXF8462009 | Cord holder | 1 | |
| 12 | B048040294 | Screw M6X8 | 1 | |
| 13 | BXF8459009 | Driving rod | 1 | |
| 14 | B962564009 | Pin | 1 | |
| 15 | BXF8458909 | Driving rod plate | 1 | |
| 16 | BXF8240009 | Washer | 1 | |
| 17 | BXF8251000 | Spring | 1 | |
| 18 | B994448009 | Washer | 1 | |
| 19 | BXF8457009 | Tension release lever assy | 1 | |
| 20 | BXF8455009 | Screw M4 | 1 | |
| 21 | B048759894 | Screw M3.5X12 | 1 | |
| 22 | B089750904 | Nut M3.5 | 1 | |
| 23 | BXF8453009 | Main lever support shaft | 1 | |
| 24 | BXF8452009 | Main lever shaft | 1 | |
| 25 | B098040474 | Screw M6X6 | 2 | |
| 26 | BXF8451009 | Main lever assy | 1 | |
| 27 | B962551900 | Rubber washer | 1 | |
| 28 | BX03501009 | Spring | | |
| 29 30 | S150651004 B048049494 | Ring E8 Screw M6X16 | 1 2 | |
| 31 | BXF8449009 | Thread trimmer cam | 1 | |
| 32 | BXF8732009 | Spacer 4.8 | 4 | |
| 33 | BX85874009 | Screw M6X10 | 4 | |
| 34 | BXF8448009 | L-adjusting connecting rod | 1 | |
| 35 | BXF8447009 | Round joint assy R | 1 | |
| 36 | BXF8445009 | Round joint assy L | 1 | |
| 38 | BXF8443009 | Adjusting connecting rod | 1 | |
| 39 | B089040704 | Nut M6 | 1 1 | |
| 40 | BXF8442009 | Nut M6, Left | 1 | |
| 41 | BXF8441009 | Screw M6 | 2 | |
| 42 | BXF8438009 | T-trimmer connecting rod, R | 1 | |
| 43 | BXF8437009 | T-trimmer connecting rod, L | 1 | |
| 44 | B093500298 | Bolt M5X8 | 2 | |
| 45 | B085050874 | Washer M5 | 2 | |
| 46 | BXF8465009 | Shoulder screw M5 | 2 | |
| 47 | BX93584809 | Movable knife | 2 | |
| 48 | B962574009 | Screw SM4.37–40X4.2 | 4 | |
| 49 | BX03583009 | Fixed knife | 2 | |
| 50 | B962571909 | Shoulder screw SM2.38 | 2 | |
| 51 | 108500003 | Nylon connector 12P | 1 | |
| .52 | 001C63000 | Ground wire assy | 1 | |
| 53 | B048500294 | Screw M5X8 | 1 | |
| 54 | W060402029 | Bead band | 1 | |
| 55 | 108400005 | Bnc jacket | 1 | |
| 56 | 036911002 | Ne ee dle | 2 | |

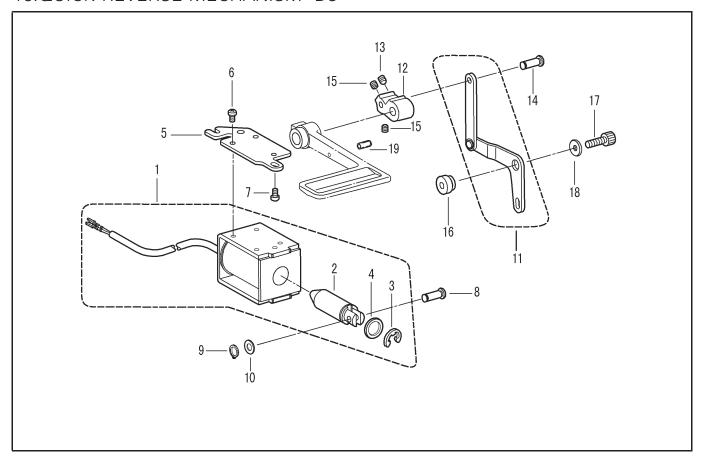
14.THREAD WIPER MECHANISM D3



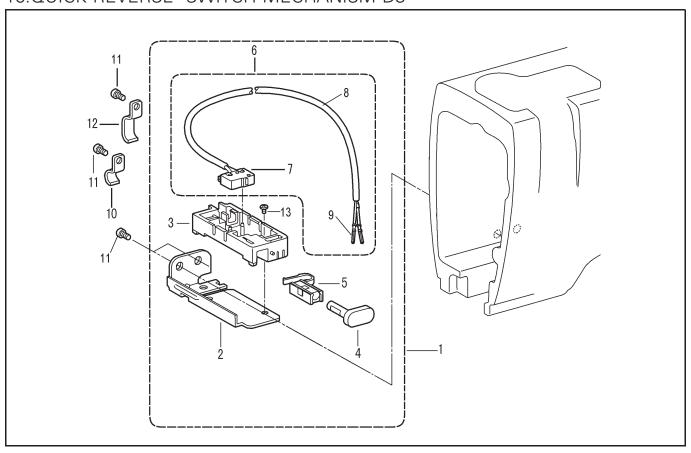
14. THREAD WIPER MECHANISM D3

| No. | Ref.No. | Description | Qt | Note |
|---------|------------|----------------------------|----|------|
| 1 | BXF8420009 | Thread wiper solenoid assy | 1 | |
| 2 | B962599009 | Plunger | 1 | |
| 3 | B062010768 | Retaining ring E9 | 1 | |
| 4 | BX72684000 | Plunger rubber | 1 | |
| 5 | BX08446009 | Thread wiper switch | 1 | |
| 6 | BX08445000 | Terminal connector | 1 | |
| 7 | BX71062009 | Screw M4X10 | 4 | |
| 8 | B962564009 | Pin | 1 | |
| 9 | B960463909 | Cord holder | 1 | |
| 10 | B048600494 | Screw M4X6 | 1 | |
| 11 | BXF8378009 | Sole noid holding plate | 1 | |
| 12 | BXF8414009 | Sole noid cover | 1 | |
| 13 | B040600594 | Screw M4X5 | 1 | |
| 14 | B048509094 | Screw M5X10 | 4 | |
| 15 | BX03561909 | Thread wiper link | 2 | |
| 16 | BXF8428009 | Thread wiper solenoid assy | 1 | |
| 17 | BXF8425009 | Transter plate | 1 | |
| 18 | BXF8427009 | Sole noid link | 1 | |
| 19 | BX03562009 | Pin | 1 | |
| 20 | BXF8506009 | Set screw collar | 1 | |
| 21 | B098500574 | ScrewM5X5 | 5 | |
| 22 | 216M00005 | Stopper | 1 | |
| 23 | B048500294 | Screw M5X8 | 2 | |
| 24 | B085050874 | Washer 5 | 2 | |
| 25 | BX03558009 | Thread wiper support | 2 | |
| 26 | B048449898 | Screw SM3.18 –40 X1 2 | 2 | |
| 27 | BXF8426009 | Spring | 1 | |
| 28 | BX03557009 | Thread wiper | 2 | |
| 29 | BX03686009 | Screw SM3.18X4 | 2 | |
| 30 | B036911002 | Needle | 2 | |
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15.QUICK REVERSE MECHANISM D3



16.QUICK REVERSE SWITCH MECHANISM D3



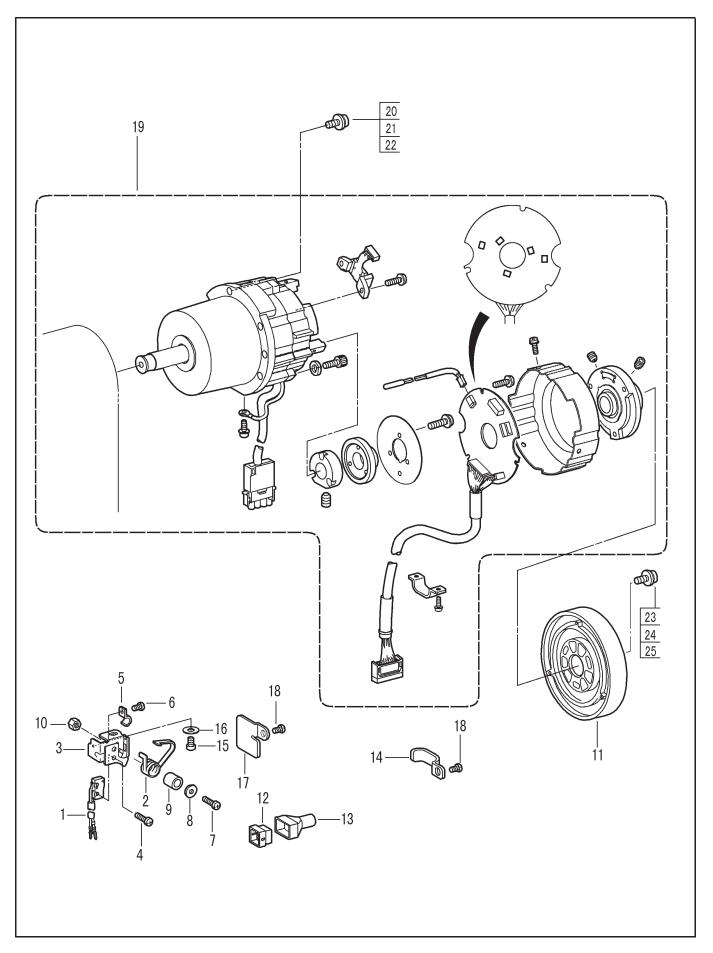
15. QUICK REVERSE MECHANISM D3

| No. | Ref.No. | Description | Qt | Note |
|-----|------------|-----------------------------|----|------|
| 1 | BXF7038009 | Quick reverse solenoid assy | 1 | |
| 1-1 | BXF7037009 | Quick reverse solenoid | 1 | |
| 2 | B956381009 | Solenoid | 1 | |
| 3 | B956370009 | Retaining ring E15 | 1 | |
| 4 | B956379000 | Rubber stopper | 1 | |
| 5 | BXF8575909 | Solenoid bracket | 1 | |
| 6 | B048500298 | Screw M5X8 | 3 | |
| 7 | B048049094 | Screw M6X10 | 2 | |
| 8 | BXF8118009 | Pin | 1 | |
| 9 | W120607004 | Retaining ring C6 | 1 | |
| 10 | B957972009 | Washer 6.5 | 1 | |
| 11 | BXF8574009 | Solenoid lever assr | 1 | |
| 12 | BXF8560009 | Quick reverse lever | 1 | |
| 13 | B094049079 | Screw M6X10 | 2 | |
| 14 | BXF8118009 | Pin | 1 | |
| 15 | B098040474 | Screw M6X6 | 2 | |
| 16 | BXF8571009 | Solenoid lever shaft | 1 | |
| 17 | B092048078 | Screw M6X20 | 1 | |
| 18 | B961015001 | Washer 6 | 1 | |
| 19 | B957978000 | Nylon tube L=13.5 | 1 | |

16. QUICK REVERSE SWITCH MECHANISM D3

| No. | Ref.No. | Description | Qt | Note |
|-----|------------|------------------------|----|------|
| 1 | BXF8422009 | Reverse switch assy | 1 | |
| 2 | BXF8830009 | Reverse switch bracket | 1 | |
| 3 | BX76829000 | Reverse switch bracket | 1 | |
| 4 | BX78106000 | Actuator | 1 | |
| 5 | BX78105000 | Reverse switch spring | 1 | |
| 6 | 216M10300 | Switch assy | 1 | |
| 7 | 036830004 | Switch | 1 | |
| 8 | 216M00007 | Reverse actuator wire | 1 | |
| 9 | 036911002 | Needle | 2 | |
| 10 | BXF8421009 | Cord holder | 1 | |
| 11 | B048500494 | Screw M5X6 | 4 | |
| 12 | BXF9722009 | Cord holder | 3 | |
| 13 | B040700404 | Screw M3X6 | 1 | |
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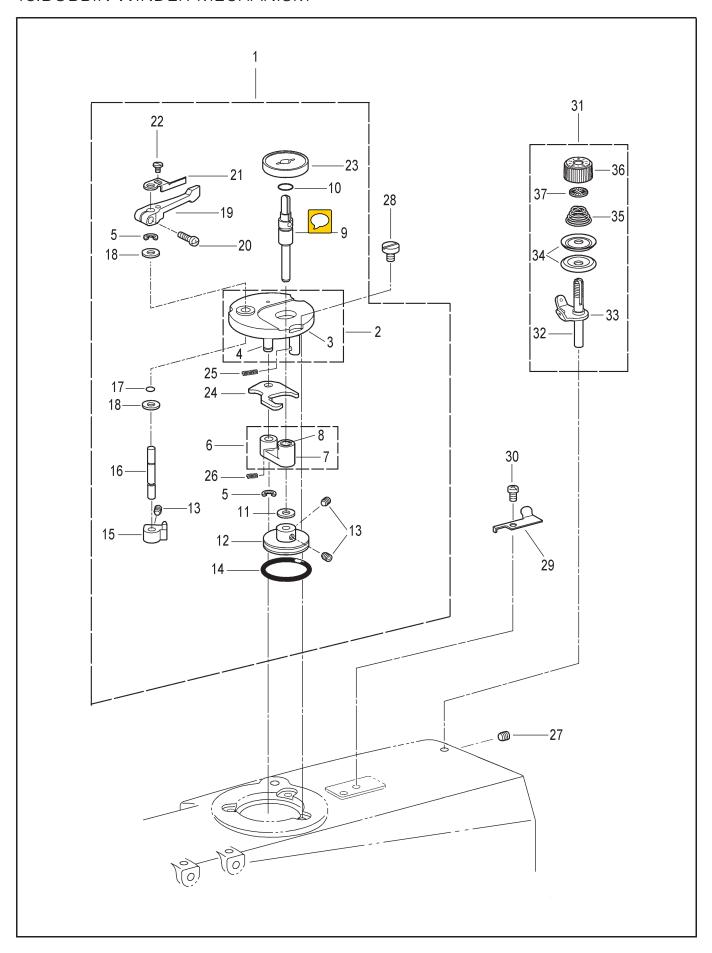
17.MATOR AND SAFETY SWITCH D3



17. MATOR AND SAFETY SWITCH D3

| No. | Ref.No. | Description | Qt | Note |
|-----|------------|---------------------|----|------|
| 1 | BXF9725009 | Micro switch assy | 1 | |
| 2 | 216M00003 | Switch plate spring | 1 | |
| 3 | BXF8424009 | Switch base | 1 | |
| 4 | S4B1503009 | Screw M2X8 | 2 | |
| 5 | B960463909 | Cord holder | 1 | |
| 6 | B048600494 | Screw M4X6 | 1 | |
| 7 | B048609894 | Screw M4X12 | 1 | |
| 8 | B084060874 | Washer 4 | 1 | |
| 9 | 216M00004 | Spacer | 1 | |
| 10 | S150559004 | Nut M4 | 1 | |
| 11 | BXF6060009 | Pulley | 1 | |
| 12 | S150677004 | Nylon connector 4p | 1 | |
| 13 | 217100026 | Cap | 1 | |
| 14 | BXF8398009 | Cord holder | 1 | |
| 15 | B048040298 | Screw M6X8 | 1 | |
| 16 | B085040974 | Washer S6 | 1 | |
| 17 | BXF8423009 | Cord holder | 1 | |
| 18 | B048500294 | Screw M5X8 | 2 | |
| 19 | | Motor assy | 1 | |
| 20 | B048509294 | Screw M5X18 | 5 | |
| 21 | B082050864 | Washer 5 | 5 | |
| 22 | B084050974 | Washer 5 | 5 | |
| 23 | B048609094 | Screw M4X10 | 3 | |
| 24 | S8A3103011 | Spring washer | 3 | |
| 25 | 217100024 | Washer | 3 | |
| 20 | 217100024 | VVasitor | | |
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18.BOBBIN WINDER MECHANISM

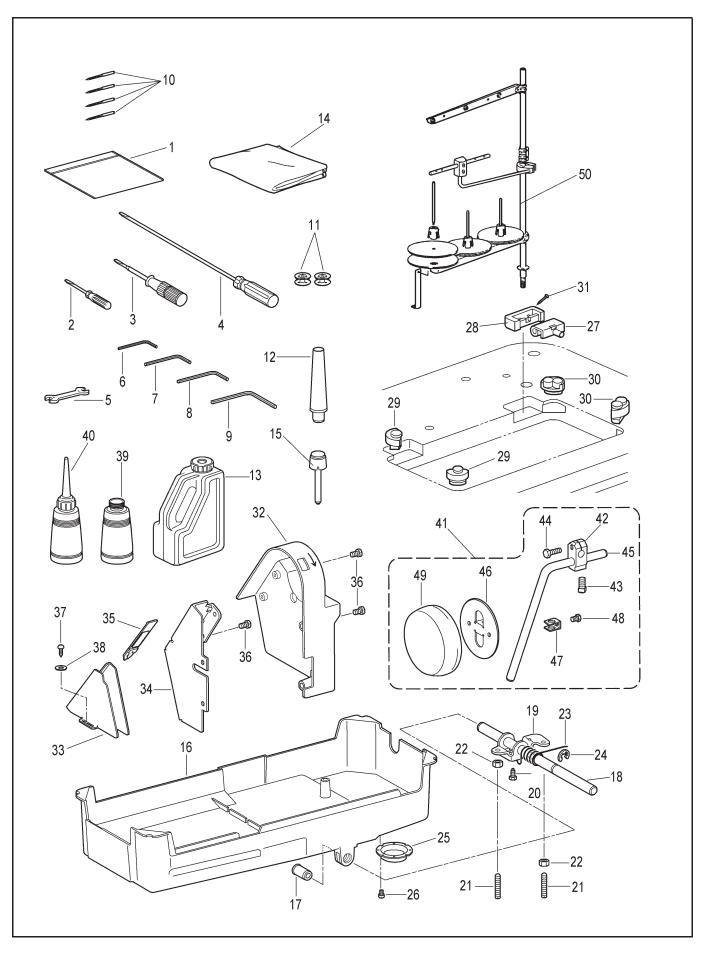


18. BOBBIN WINDER MECHANISM

| No. | Ref.No. | Description | Qt | Note |
|-----|-------------------|-----------------------------|----|------|
| 1 | BXF9139909 | Bobbin winder unit | 1 | |
| 2 | BXF9138009 | B-winder shaft support assy | 1 | |
| 5 | B 06 206 0768 | Retaining ring E4 | 2 | |
| 6 | BXF9135009 | B-winder shaft support assy | 1 | |
| 9 | BXF9132009 | Bobbin winder shaft | 1 | |
| 10 | B 02 900 1030 | Oring P9 | 1 | |
| 11 | B 08 50 4 0 9 7 4 | Washer S6 | 1 | |
| 12 | BXF9120009 | Bobbin winder wheel | 1 | |
| 13 | B 09 850 0574 | Screw M5X5 | 3 | |
| 14 | BX85321000 | Rubber ring 29 | 1 | |
| 15 | BXF9128909 | Bobbin presser cam | 1 | |
| 16 | BXF9127009 | Bobbin winder arm shaft | 1 | |
| 17 | BXF8910009 | Oring SS5 | 3 | |
| 18 | B 08 50 4 0 9 7 4 | Washer S6 | 2 | |
| 19 | BXF9126009 | Bobbin presser arm | 1 | |
| 20 | B 04 860 9894 | Screw M4X12 | 1 | |
| 21 | BXF9125009 | Bobbin presser | 1 | |
| 22 | BX87692008 | Screw M4X5 | 1 | |
| 23 | BXF9122009 | Bobbin support | 1 | |
| 24 | BXF9121009 | Bobbin winder lever | 1 | |
| 25 | BXF9110909 | Spring | 1 | |
| 26 | BXF91 190 09 | Spring | 1 | |
| 27 | B 09 850 0574 | Screw M5X5 | 1 | |
| 28 | BXF91 189 09 | Bobbin winder fixed screw | 3 | |
| 29 | BXF9740009 | Knife | 1 | |
| 30 | B 04 850 0494 | Screw M5X6 | 1 | |
| 31 | BXF91 160 09 | Bobbin winder tension assy | 1 | |
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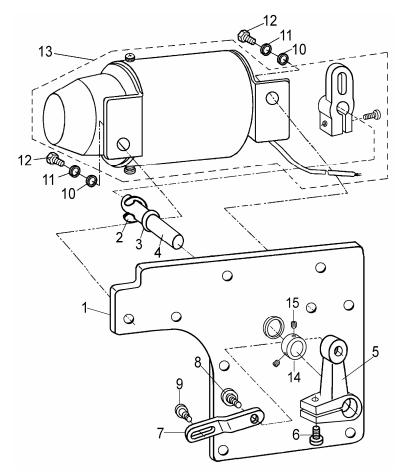
 $^{^{\}ast}$ The part circled by $\hfill \square$ is supplied in complete set.

19.ACCESSORIES



19. Accessories

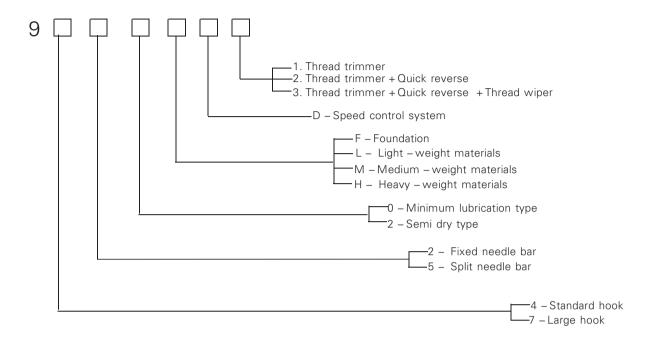
^{*} The part circled by $\[\]$ is supplied in complete set.



AUTOMATIC FOOT LIFTER MECHANISM (OPTIONAL PARTS)

| | | Description | Qt. | Note |
|----|--------------|----------------------|-----|------|
| 1 | 216XA1000 | Back plate | 1 | |
| 2 | S150651004 | Retaining ring 8 | 1 | |
| 3 | S150633003 | Washer 10 | 1 | |
| 4 | 216XA0002 | Shaft | 1 | |
| 5 | 216XA0001 | Link crank | 1 | |
| 6 | S150220040 | Screw M5x12 | 1 | |
| 7 | 216XA0003 | Link | 1 | |
| 8 | 216XA0004 | Screw M6 | 1 | |
| 9 | 216XA0005 | Screw M5 | 1 | |
| 10 | B085040774 | Washer 6 | 2 | |
| 11 | B082040864 | Washer spring 6 | 2 | |
| 12 | S150258005-d | Screw M6x12 | 2 | |
| 13 | 108C03000 | Foot lifter solenoid | 1 | |
| 14 | 216XA0007 | Thrust collar | 1 | |
| 15 | B096600978 | Screw M4x4 | 2 | |
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Machine specifications



Machine's main technial date



This machine may only be operated by adequately trained operators only after having completely read and understood the instruction manual.

Parts are subject to changes in design without prior notice.







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