CE CO



GC672 SERIES

SINGLE NEEDLE DIRECT DRIVE STRAIGHT LOCK STITCHER WITH THREAD TRIMMER INSTRUCTION BOOK PARTS CATALOGUE

XI'AN TYPICAL INDUSTRIES CO., LTD.

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 meanings of these indications and symbols are given below.

Indications



CAUTION

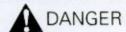
The instructions which follow this term indicate situations where failure to follow the instructions could cause injury when using the machine or physical damage to equipment and surroundings.

Symbols

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

This symbol () indicates something that you must not do.) indicates something that you must do. The picture inside the This symbol (circle indicates the mature of the thing that must be done. (For example, the symbol at left means "you must make the ground connection".)

2. Notes on safety





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



CAUTION

Environmental requirements

Use the sewing machine in an area which is free from sources of strong electrical noise such as hight-frequency welders.

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 electrical consumption.

Insufficient power supply capacity may cause problems with correct operation.

The ambient temperature should be within the range of 5℃ to 35℃during use.

Temperatures which are lower or higher than this may cause problems with correct operation.

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

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

Avoid exposure to direct sunlight during use.

Exposure to direct sunlight may cause problems with correct operation.

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

Installation

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

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

The sewing machine weighs more than 44 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.

Turn off the power switch before inserting or removing the plug, otherwise damage to the control box could result.

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. When securing the cords, do not bend the cords excessively or fasten them too hard 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

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



Attach all safety device before using the sewing machine.

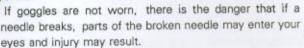
If the machine is used without these devices attached, injury may result.

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.





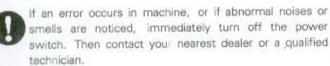
Use both hands to hold the machine head when tilting it back or returning it to its original position. If only one hand is used, the weight of the machine head may cause your hand to slip, and your hand may get caught.

A

Turn off the power switch at the following times.

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 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 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.

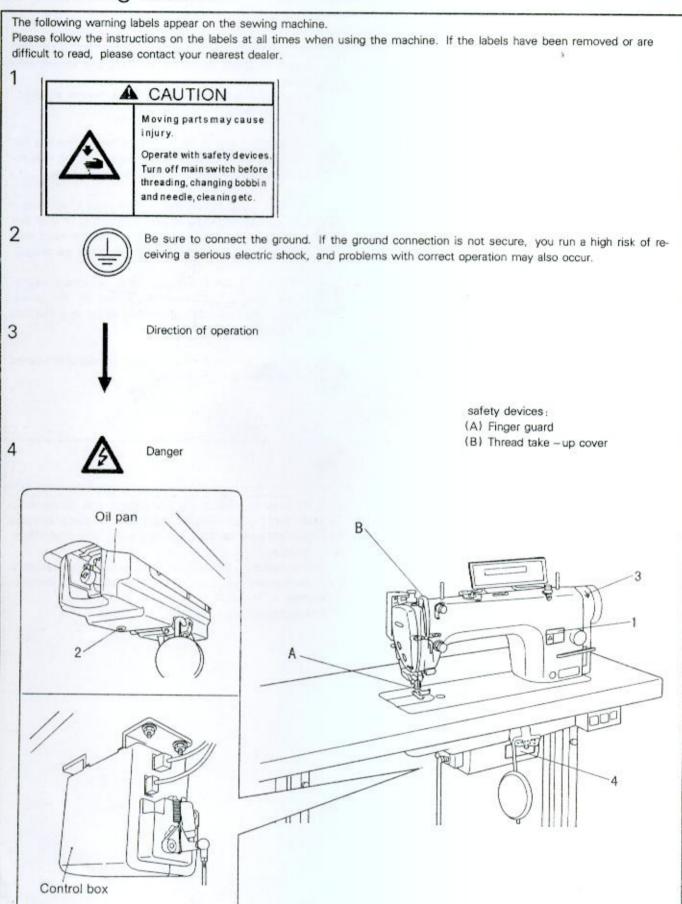


Use both hands to hold the machine head when tilting it back or returning it to its original position. If only one hand is used, the weight of the machine head may cause your hand to slip, and your hand may get caught.

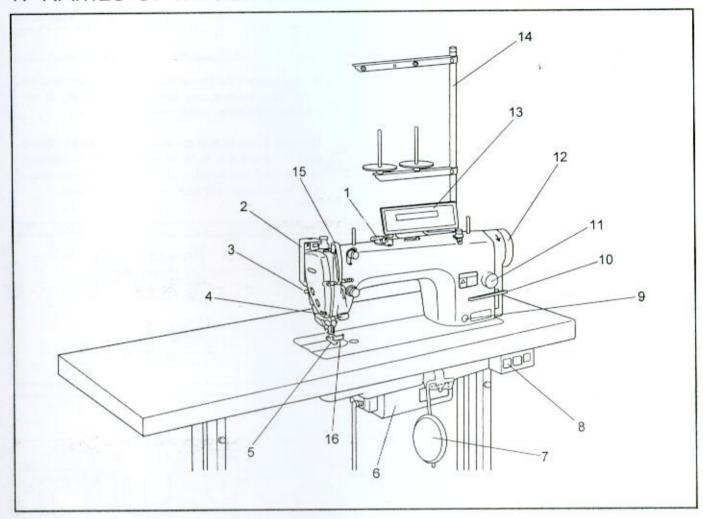
Furthermore, do not drink the oil or eat the grease under any circumstances, as they can cause vomiting and diarrhea.

Keep the oil out of the reach of children.

3. Warning labels.



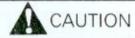
1. NAMES OF MAJOR PARTS



- 1. Bobbin winder
- 3. Lifting lever
- 5. Presser foot
- 7. Knee lifter assembly
- 9. Oil gauge window
- 11. Stitch length dial
- 13. Operation panel
- Safety devices
- 15. Thread take -up cover

- 2. Thread wiper
- 4. Quick reverse (Actuator)
- 6. Control box
- 8. Power switch
- 10. Reverse lever
- 12. Machine pulley
- 14. Cotton stand
- 16. Finger guard

2. INSTALLATION



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



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.



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



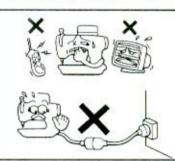
Use both hands to hold the machine head when tilting it back or returning it to its original position. If only one hand is used, the weight of the machine head may cause your hand to slip, and your hand may get caught.

O

The sewing machine weighs more than 44kg. The installation should be carried out by tow or more people.

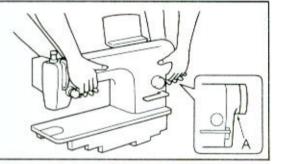
About the machine set -up location

- Do not set up this sewing machine near other equipment such as televisions, radios or cordless telephones, otherwise such equipment may be affected by electronic interference from the sewing machine.
- The sewing machine should be plugged directly into an AC wall outlet. Operation problems may result if extension cords are used.



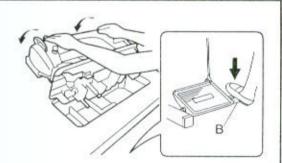
Carrying the machine

- The machine should be carried by the arm by two people as shown in the illustration.
- * Hold the motor cover (A) by hand also so that the pulley does not rotate.



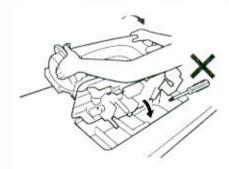
Tilting back the machine head

 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

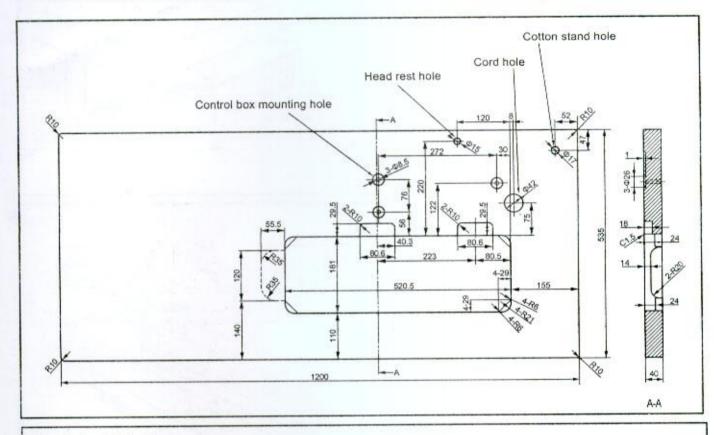
- 1. clear away any tools, etc. which may be near the table holes.
- While holding the face plate with your left hand, gently return the machine head to the upright position with your right hand.



2 - 1. Table processing diagram

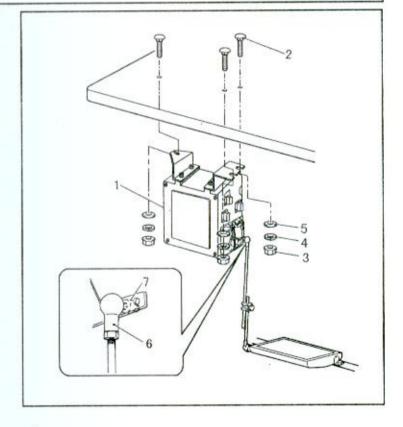
The top of the table should be 40 mm in thickness and should be strong enough to hold the weight and with - stand the vibration of the sewing machine.

Drill holes as indicated in the illustration below.



2 - 2. Installation

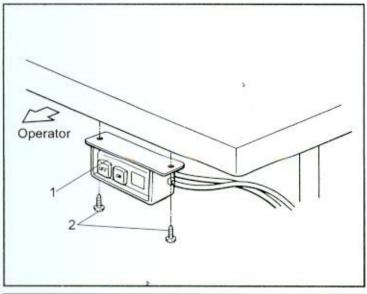
- 1. Control box
- (1) control box
- (2) Bolts [3 pcs]
- (3) Nuts [3 pcs]
- (4) Spring washers [3 pcs]
- (5) Washers [3 pcs]
- Connecting rod
 Connecting rod
 Nut

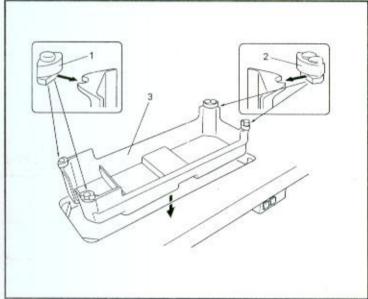


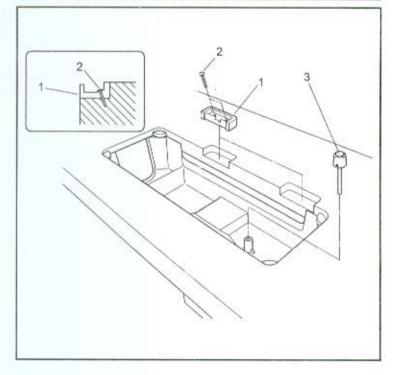
- 3. Power switch
- (1) Power switch.
- (2) Screws [2 pcs]

- 4. Oil pan
- (1) Head cushions (left) [2 pcs] (2) Head cushions (right) [2 pcs]
- (3) Oil pan.

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



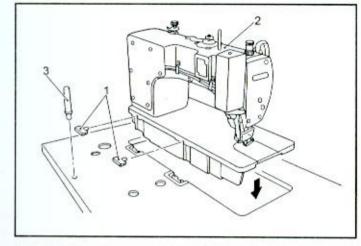




- 7. Machine head
- (1) Hinges [2 pcs]
- (2) Machine head
- (3) Head rest

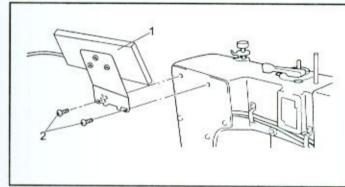
NOTE:

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.

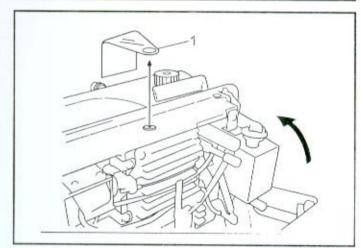


- 8. Operation panel
- (1) Operation panel
- (2) Screws [2 pcs]

(Use for tightening rear cover)

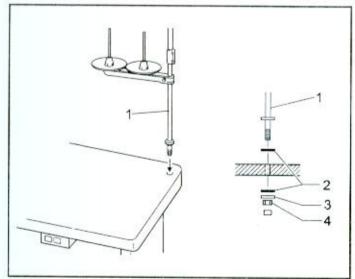


- 9. Sticker (Remove)
- (1) sticker

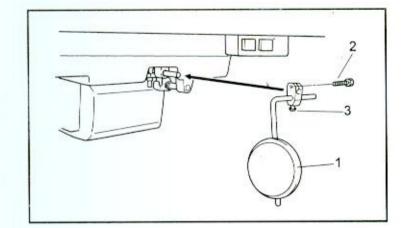


- 10. Cotton stand (1) cotton stand
- NOTE:

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.

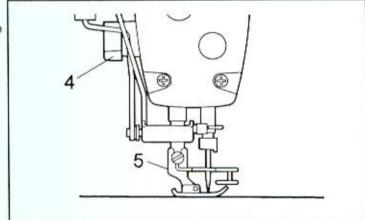


- 11. Knee lifter plate
- (1) Knee lifter plate
- (2) Bolt
- *Loosen the bolt (3) and move the knee lifter plate (1) to a position where it is easy to use.

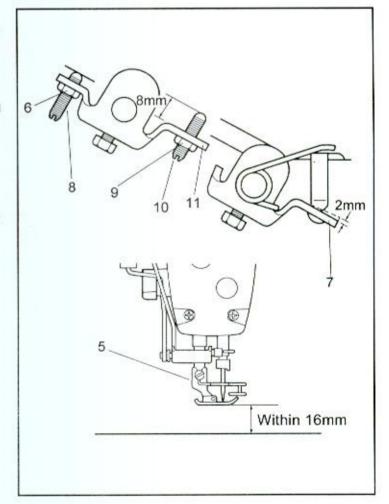


≪nee lifter adjustment>

- 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).
- Turn the screw (8) to adjust so that the amount of play in the knee lifter (7) is approximately 2 mm when the knee lifer plate (1) is gently pressed.
- 5. Securely tighten the nut (6)
- 6. loosen the nut (9)
- Turn the screw (10) until the distance between the end of the screw (10) and the knee lifter (11) is approxi mately 8 mm.
- Turn the adjusting screw (10) to adjust so that the presser foot (5) is at the desired position within a distance of 16 mm of the needle plate when the knee lifter plate (1) is fully pressed.
- After adjustment is completed, securely tighten the nut(9).





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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.

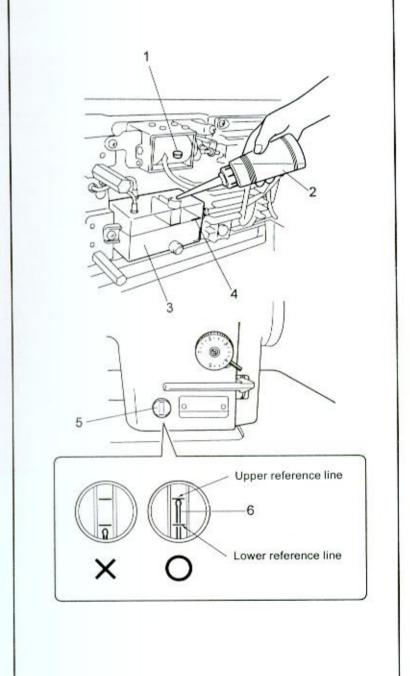


Be sure to wear protective goggles and gloves when handing the lubricating oil and grease, so that they do not get into your eyes or onto your skin, otherwise inflammation can result.

Furthermore, do not drink the oil or eat the grease under any circumstances, as they can cause vomiting and diarrhea. 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 our company.
- 1. Tilt back the machine head
- Remove the rubber cap (1), and pour 150 ml of lubricating oil from the accessory oil bottle (2) into the oil tank (3) (Use the reference line (4) as a guide when pouring)
- 3. Replace the rubber cap (1)

- 4. Return the machine head to its original position.
- Check that the oil gauge (6) comes to the upper reference line in the oil gauge window(5)
- *Be sure to add more oil if the oil gauge (6) is below the lower reference line.



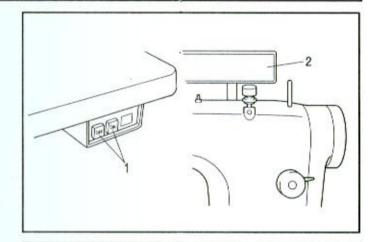
2-4 Test operation (Operating the treadle)





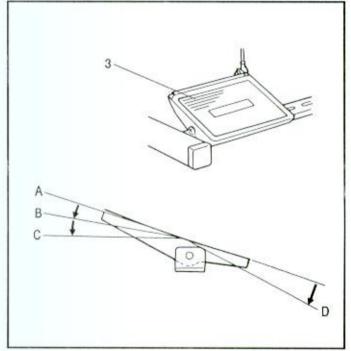
Do not touch any of the moving parts or press any objects against the machine while sewing , as this may result in personal injury or damage to the machine.

<Turning on the power>
Press the ON power switch(1)
The power indicator(2) will illuminate.



<Test operation >

- Check that the machine sews at low speed when the treadle (3) is gently pressed to position (B).
- Then check that it sews at high speed when the treadleis gently pressed to position (C).
- After pressing the treadle (3) forward, check that the needle is lowered to the needle plat when the treadle (3) is returned to the neutral position (A).
 - (when needle down stopping has been set.)
- If the treadle (3) is pressed to position (D), thread trimming is carried out and the needle then rises above the needle plate and stops.



3. PREPARATION BEFORE SEWING

3-1. Installing the needle

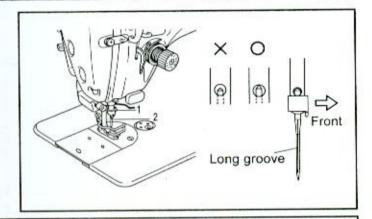




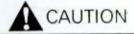
Turn off the power switch before installing the needle.

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

- turn the machine pulley to move the needle bar to its highest position.
- 2. Loosen the screw (1).
- Insert the needle (2) in a straight line as far as it will go, making sure that the long groove on the needle is at the left, and then securely tighten the screw(1).



3-2. Removing the bobbin case

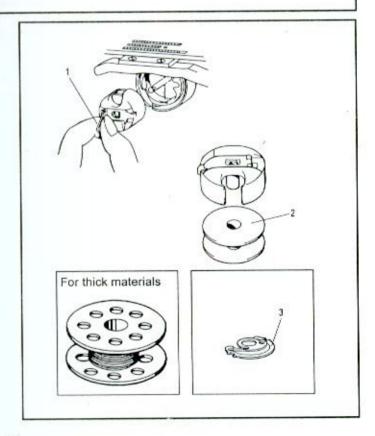




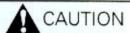
Turn off the power switch before removing the bobbin case.

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

- Turn the machine pulley to raise the needle until it is above the needle plate.
- Pull the latch (1) of the bobbin case upward and then remove the bobbin case.
- The bobbin (2) will come out when the latch (1) is released.
- *There is an anti spin spring(3) inside the bobbin case. the anti – spin spring(3) prevents the bobbin from racing at times such as during thread trimming.



3-3. Winding the lower thread



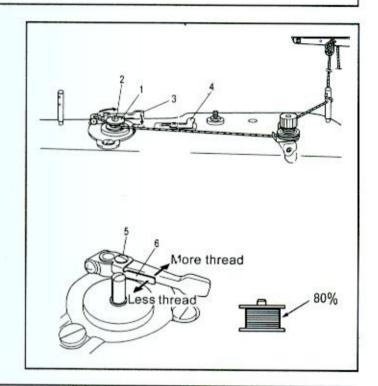
A

Do not touch any of the moving parts or press any objects against the machine while 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).
- Wind the thread several times around the bobbin(1) in the direction indicated by the arrow.
- 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.
- Once winding of the lower thread is completed, the bobbin presser arm (3) will return automatically.
- After the thread has been wound on , remove the bobbin and cut the thread with the knife (4).
- Loosen the screw (5) and mover the bobbin presser(6) to adjust the amount of thread wound onto the bobbin.

NOTE:

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



3-4 Installing the bobbin case



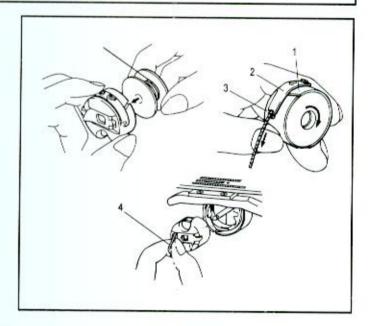
CAUTION



Turn off power switch before installing the bobbin case.

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

- Turn the machine pulley to raise the needle until it is above the needle plate.
- While holding the bobbin so that the thread winds to the right, insert the bobbin into the bobbin case.
- Pass the thread through the slot (1) and under the tension spring (2), and then pull it out from the thread guide(3).
- Check that bobbin turns clockwise when the thread is pulled.
- Hold the latch (4) on the bobbin case and insert the bobbin case into the rotary hook.



A CAUTION

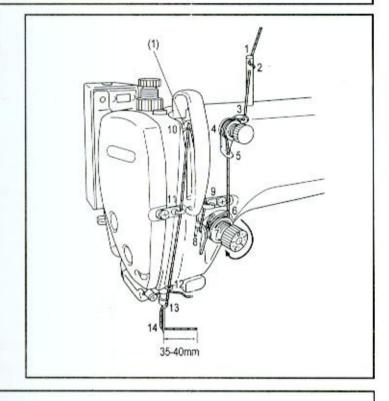


Turn off the power switch before threading the upper thread.

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

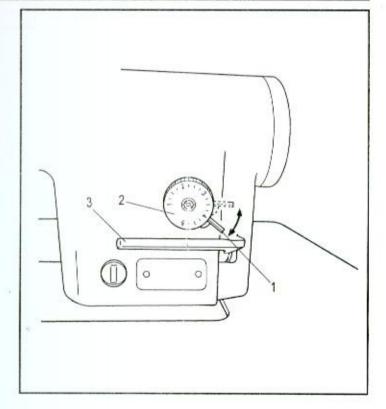
Turn the machine pulley and raise the thread take -up (1) before threading the upper thread.

This will make threading easier and it will prevent the thread from coming out at the sewing start.



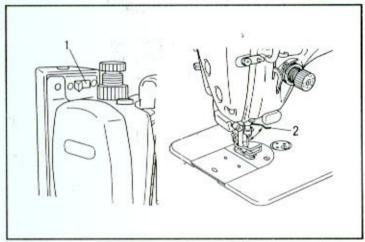
3-6 Adjusting the stitch length

- Push the dial lock lever (1) up until it clicks to release the lock.
- Turn the stitch length dial (2) clockwise or counter clockwise so that the desired stitch length is at the upper most 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 reverse lever(3) is pushed to the halfway – down position.
- 3. Push the dial lock lever (1) down firmly to lock it.
- Check that the stitch length dial (2) dose not rotate.



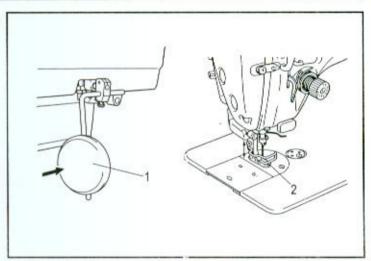
3-7 Using the thread wiper

Press the thread wiper switch (1) to the side. If this is done, the thread wiper (2) will operate after the thread is trimmed.



3 -8 Using the knee lifter

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



A CAUTION



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



Turn off power switch switch at the following times.

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.



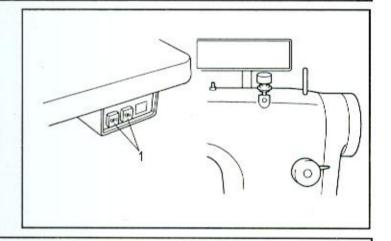
Do not touch any of the moving parts or press any objects against the machine while sewing , as this may result in personal injury or damage to the machine.



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 may cause your hand to slip, and your hand may get caught.

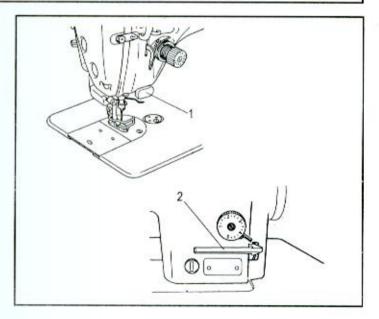
4-1. Sewing

- press the ON power switch (1).
 The power indicator (2) will illuminate.
- Use the operating panel to carry out the programming which is necessary for sewing.(Refer to the chapter on using the operating panel.)
- 3. Depress the treadle to start sewing.



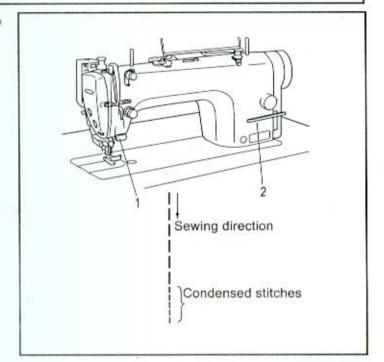
4 - 2. Backtacking

When the actuator (1) or the reverse lever (2) is pressed during sewing, the feed direction will be reversed. When it is released, the feed direction will return to normal.



4-3. Sewing condensed stitches

- If you press the actuator (1) or the reverse lever (2) 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.

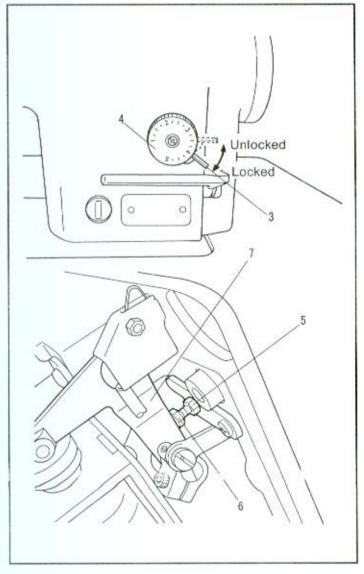


Setting>

- 1. Life up the dial lock lever(3) to release the lock.
- Turn the stitch length dial (4) to the stitch length to be used for condensed stitches.
- 3. Tilt back the machine head .
- 4. Loosen the nut (5) and then turn the bolt (6) until its head is touching the solenoid lever (7).
- 5. Tighten the nut (5) to secure the bolt (6).
- 6. Return the machine head to its normal position.

Sewing>

- Return the stitch length dial (4) to the stitch length for normal sewing.
- 2. Push down the dial lock lever (3) to engage the lock.
- 3. Start sewing.
- At the position where you would like to stark sewing con densed stitches, press the actuator (1) or the reverse lever(2)
- (Condensed stitches are sewn while the actua tor (1) or reverse lever (2) is being pressed.)
- * To stop sewing condensed stitches, tighten the bolt (6) so that its head is not touching the solenoid lever(7).



5. THREAD TENSION

5-1. Adjusting the thread tension



CAUTION



Turn off the power switch before removing or inserting the bobbin case.

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.

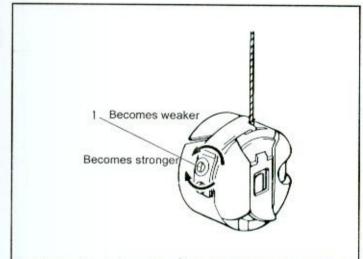
Decrease the lower thread tension.



Upper thread tension too strong or lower thread tension too weak. Decrease the upper thread tension. Increase the lower thread tension.

< Lower thread tension>

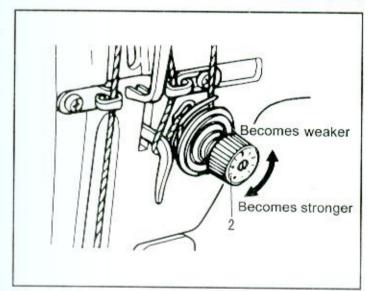
Adjust by turning the adjustment screw (1) until the bobbin case drops gently by its own weight while the thread end coming out of the bobbin case is held.



Upper thread tension>

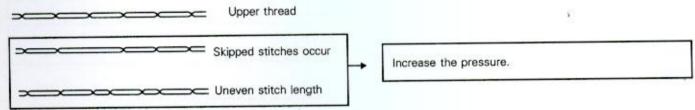
After the lower thread tension has adjusted, adjust the upper thread tension so that a good, ever stitch is obtained.

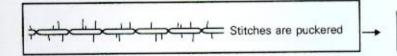
- 1. Lower the presser foot,
- 2. Adjust by turning the tension nut(2).



5-2. Adjusting the presser foot pressure

Correct stitches

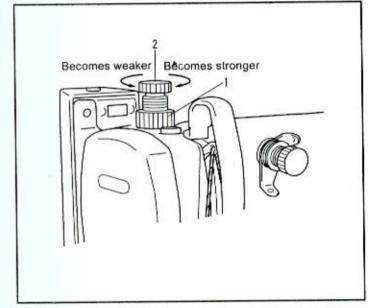




Decrease the pressure.

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

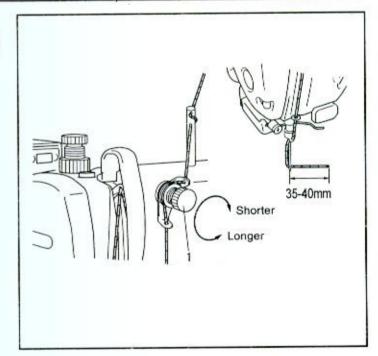
- 1. Loosen the adjusting nut (1).
- Turn the presser adjusting screw (2) to adjust the presser foot pressure.
- 3. Tighten the adjusting nut (1).



5-3. Adjusting the trailing length after thread trimming

- At the time of thread trimming, the thread tension is loosened and tension is applied by the pretension (1) only.
- The standard trailing length for the upper thread is 35 –40 mm.
- If the tension of the pretension (1) is increased, the lengths of the threads trailing from the needle tips will be reduced; if the tension is reduced, the lengths will be increased.

Adjust by turning the pretension (1).



A CAUTION



Turn off the power switch before carrying out cleaning.

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 lubrication 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.



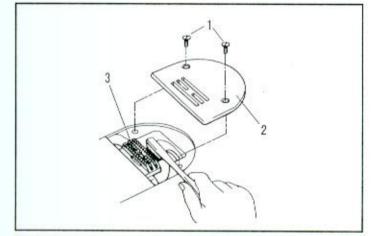
Use both hands to hold the machine head when tilting it back or returning it to its original position, if only one hand is used, the weight of the machine head may cause your hand to slip, and your hand may get caught.

6 - 1. Daily cleaning procedures

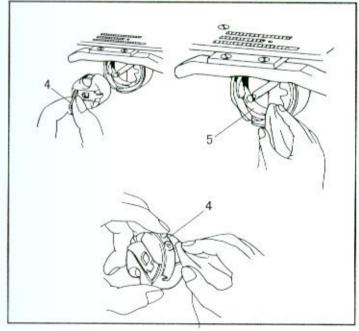
the following cleaning operations should be carried out each day in order to maintain the performance of this machine and to ensure a long service life.

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

- 1. Cleaning
- 1. Raise the presser foot.
- Remove the two screws (1), and then remove the needle plate (2).
- Use a soft wire brush to clean any dust from the feed dog (3).
- 4. Install the needle plate(2) with the two screws (1).



- 5. Tilt back the machine head.
- 6. Remove the bobbin case (4).
- Wipe off any dust from the rotary hook (5) with a soft cloth, and check that there is no damage to the rotary hook (5).
- Remove the bobbin from the bobbin case (4) and clean the bobbin case (4) with a cloth.
- Insert the bobbin into the bobbin case (4) and then place the bobbin case (4) back into the machine.



2. Lubrication

A. Gearbox oil quantity

NOTE:

 Check the quantity of oil in the gearbox immediately after tilting back the machine head.

When the machine head is left for long periods in the tilted – back position, the amount of oil in the felt inside the gearbox drops and the oil level seen from the oil windows (1) rises, so that it becomes impossible to measure the actual oil level accurately.

 The position of the oil level in the oil window (1) will vary depending on the angle of the machine head.

Tilt back the machine head while the head rest(2) is installed in the correct position as shown in the table processing diagram.

Checking the oil quantity>

The oil level should normally be approximately 1 mm above the center reference line in the oil window (1). (70 ml of lubricating oil is added to the gearbox at the time of shipment from the factory.)

- 1. Look at the oil window (1) from directly in front.
- If the oil level is below the normal level, add more lubri cating oil as described in the following procedure.



Use only the lubricating oil specified by our company.

- 1. Remove the rubber cap (3).
- Add lubricating oil until the oil level is approximately 1 mm above the center reference line in the oil window (1).
 Do not pour all of the lubricating oil in at once at this time.
 Pour the lubricating oil 10 ml at a time while checking the oil window (1).

NOTE:

Do not pour too much lubricating oil into the specified location.

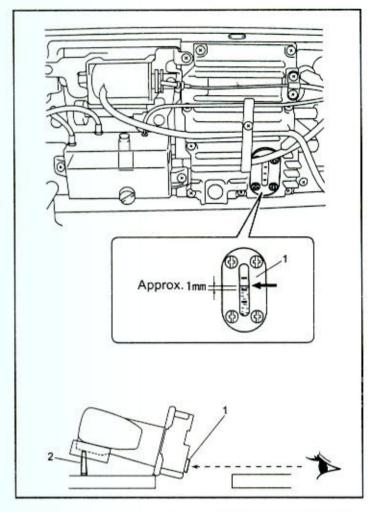
If too much oil is added oil leaks may result.

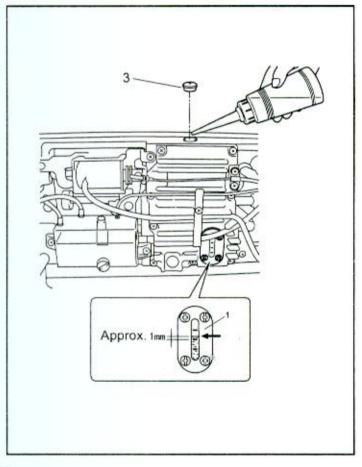
- 3. Insert the rubber cap (3) securely.
- 4. Return the machine head to its original position.

NOTE:

The rubber cap (3) has a hole in it for adjusting the air pressure.

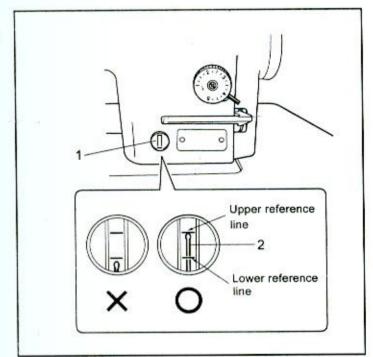
When replacing the rubber cap (3) use only the replacement part specified by our company.



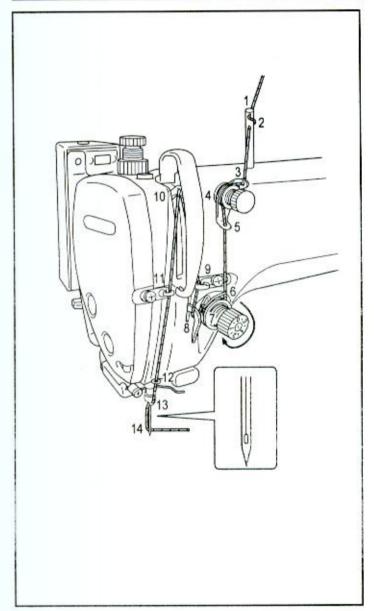


B. Oil tank oil quantity.

Check the oil gauge window (1), and add more oil if the oil gauge (2) is below the lower reference line.

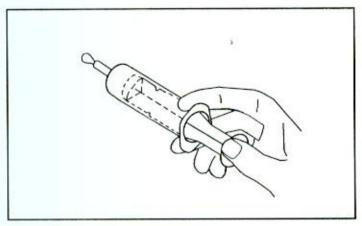


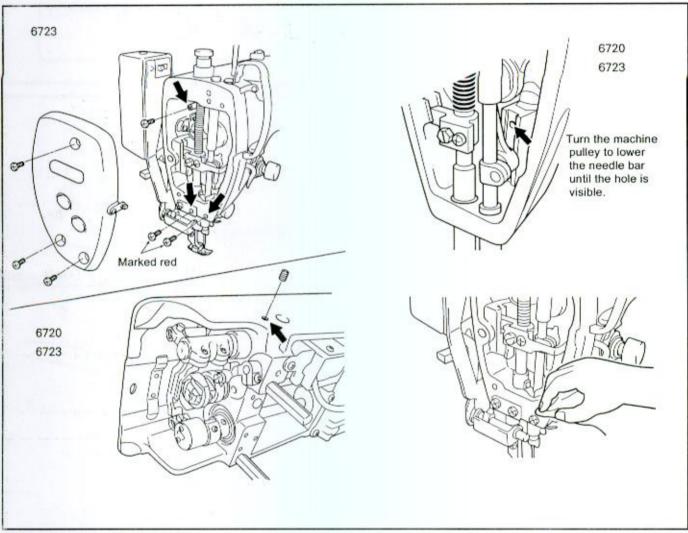
- 3. Checking
- Replace the needle if it is bent or if the tip is broken.
 Check that the upper threads have been threaded correct
- 3. Carry out a test sewing.



6-2. Applying grease

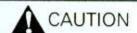
Applying grease>
Use our company specified grease.





- 1. Turn the power switch to "OFF"
- 12. Remove the screws and the set screws.
- 3. Apply grease to each of the holes until the grease overflows slightly.
- 4. Tighten the screws and the set screws in order to push the grease in.
- 5. Turn the machine pulley by hand to move the needle bar up and down several times in order to disperse the grease.
- 6. Use a cloth to wipe away any excess grease from around the screws and set screws and from underneath needle bar bush D.
- 7. Carry out the reset procedure given below.

7. ADJUSTING THE ROTARY HOOK LUBRICATION AMOUNT



A

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.

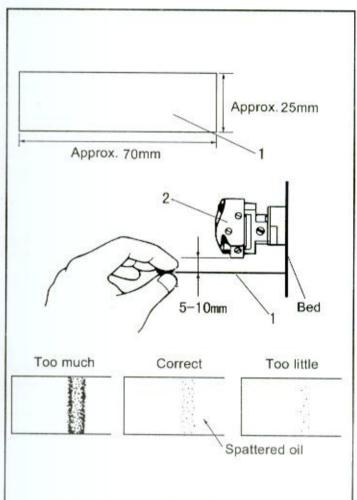
Checking the lubrication amount>

- Remove the thread from all points from the thread take up to the needle.
- 2. Use the lifting lever to lift the presser foot.
- 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).
- Place the lubrication amount check sheet (1) underneath the rotary hook (2) and hold it there. Then run the sewing machine at the normal sewing speed for 8 seconds. (Any type of paper can be used as the lubrication amount check sheet (1).)
- Check the amount of oil which has spattered onto the sheet.

If adjustment is necessary, carry out the following operations in "Adjusting the lubrication amount"

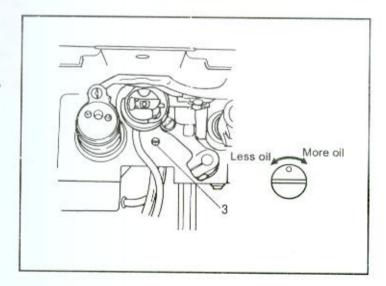
Note:

If the lubrication amount does not match the correct amount shown in the illustration at left (if the amount of spattered oil is too much or none at all), turn the adjusting screw (3) clockwise to fully tighten it, turn it back counterclockwise by 2 1/2 turns, and then carry out the following adjustment.



<Adjusting the lubrication amount>

- 1. Tilt back the machine head.
- Turn the adjusting screw (3) to adjust the lubrication amount.
- If the rotary hook adjusting screw (3) is turned clockwise, the lubrication amount becomes greater.
- If the rotary hook adjusting screw (3) is turned counter clockwise, the lubrication amount becomes smaller.
- Check the lubrication amount again according to the pro cedure given in "Checking the lubrication amount" above.
- *Turn the adjusting screw (3) and check the lubrication amount repeatedly until the lubrication amount is correct.
- Check the lubrication amount again after the sewing machine has been used for approximately two hours.



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





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

CAUTION



Turn off the power switch and disconnect the power cord before carrying out troubleshooting. Turn off the power switch and disconnect the poster.

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

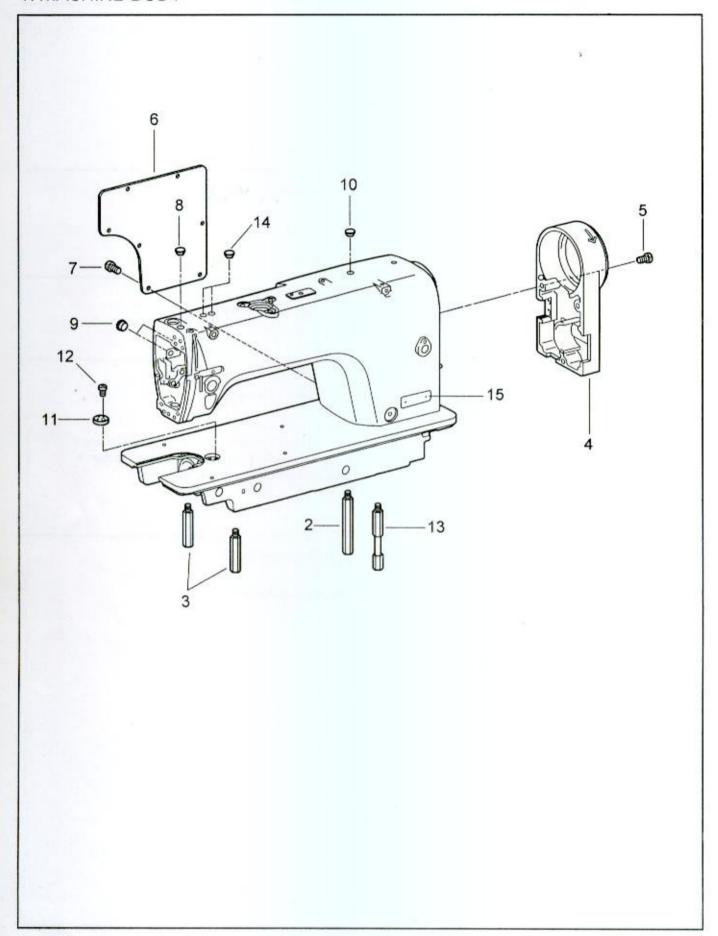
Problem	Possible cause				
1. Upper thread is not tight.	 Is the upper thread tension too weak, or is the lower thread tension too strong? Adjust the upper thread tension or lower thread tension. 				
2. Lower thread is not tight.	 Is the lower thread tension too weak, or is the upper thread tension too strong? Adjust the lower thread tension or upper thread tension. 				
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. 				
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. 				

Problem	Possible cause			
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? Lower the position of the thread take -up spring. Are the trailing lengths of the upper threads too short after thread trimming? Adjust the pretension. Are the threads not being trimmed cleanly? Sharpen the fixed knives, or replace the fixed and movable knives if necessary. Is the needle too wide? Try using a needle with a count that is one lower than the current needle. Is the length of thread trailing out from the bobbin case after thread trimming too short? If the bobbin is spinning loosely, replace the anti -spin spring in the bobbin case. Is the sewing speed too fast at the sewing start? Use the slow start feature. 			
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. 			
7. Large degree of puckering (excess tension)	 Is the upper thread tension too strong? Make the upper thread tension as weak as possible. Is 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? Lower the position of the thread take – up spring to as low a position as possible. Is the presser foot pressure too strong? Adjust the presser foot pressure. Is the sewing speed too fast? Use the sewing speed control keys to gradually reduce the sewing speed. 			
8 Material slippage	Is the presser foot pressure too strong? Adjust the presser foot pressure.			

Problem	Possible cause				
9. Lower thread is tangled at the sewing start. Spinning of bobbin during thread trimming 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 80%. Is the anti – spin spring attached? Attach the anti – spin spring. Is the bobbin turning smoothly? 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 rotary hook sufficiently lubricated? If the oil gauge is down to the lower reference line in the oil gauge window, 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 upper thread may be loose because the thread take – up spring operating range is too small? Adjust the position of the thread take – up spring. 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. 				
11. Incorrect thread trim- ming (Upper and lower threads are both not being trimmed)	 Is the fixed knife or movable knife damaged or worn? Replace the fixed knife or the movable knife. 				
12. Incorrect thread trimming (upper thread or lower thread is not being trimmed)	 Is the needle properly installed? If it is incorrect, install the needle correctly. Is the fixed knife or movable knife blunt? Replace the fixed knife or the movable knife. 				
13. Broken needles	 Is the material being pushed or pulled with excessive force during sewing? Is the needle properly installed? If it is incorrect, install the needle correctly. Is the needle bent, is the needle tip broken, or is the needle hole blocked? Replace the needle. 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 found again. Furthermore, we recommend we recommend that through steps be taken to account for such needles to comply with product liability regulations. 				

Problem	Possible cause Is the oil tank empty? Fill the oil tank with oil.				
14. Oil gauge (1) is not risible in oil gauge window.					
15. Machine does not op- erate when power is turned on and treadle is pressed.	 Is the power supply connector disconnected from the control box? Insert the connector securely. 				
16. Machine does not operate at high speed.	 Is the sewing speed setting or backtack speed setting incorrect? Use the sewing speed control keys to set the high speed. 				
17. Machine stops during sewing	 Is the fixed stitch key turned on? Press the fixed stitch key so that the indicator turns off. Is the power supply voltage too low? Check the power supply. (If the power cord is too long or too many appliances are being run from a single outlet, this may cause voltage drops which will in turn cause the reset function to activate and stop the machine, even if the power supply itself is normal.) 				
18 . Nothing appears on the operation panel display.	 Is the power supply connector disconnected from the control box? Insert the connector securely. Is the operation panel connector inside the control box disconnected? Insert the connector securely. 				

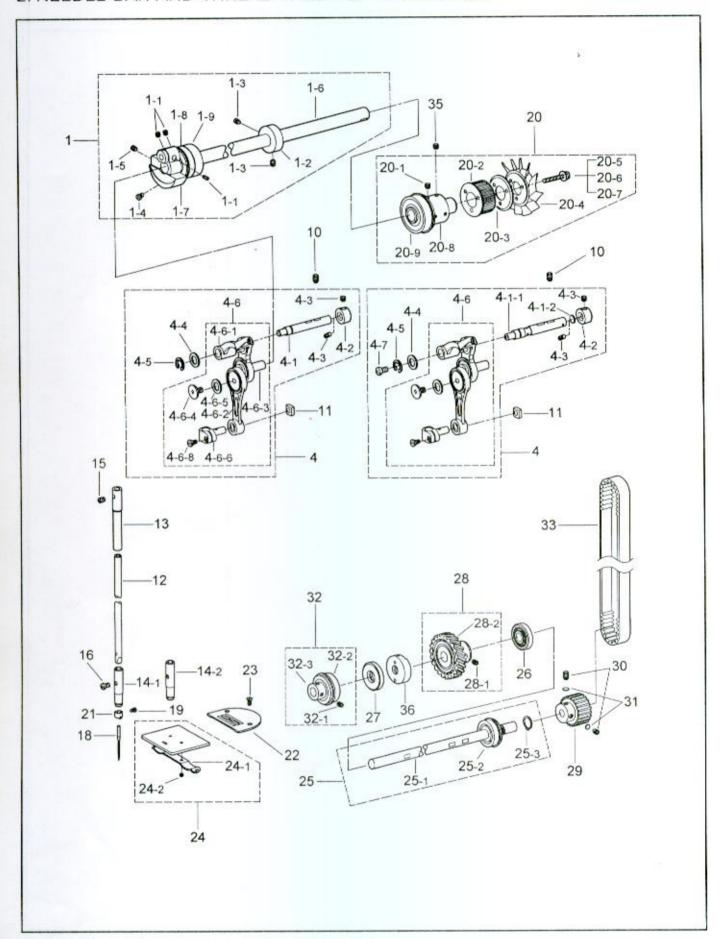
1. MACHINE BODY



1. MACHINE BODY

No.	Ref.No.	Description	Qt	Note
2	BXF9904009	Stand, R	1	
3	BXF9903009	Stand, L	2	1
4	217100015	Motor cover	1	
5	B048509894	Screw M5x12	3	
6	BXF9905001	Side plate	1	
7	B048509894	Screw M5x12	7	
8	B906650909	Rubber cap 8	1	
9	B906661009	Rubber cap 15.5	2	
10	B993174009	Rubber cap 9.4	1	
11	BX01489959	Ruler plate	1 1	
12	B048600494	Screw M4x6	2	
13	BXF8930009	Stand, RF	1	
			1 1	
14	B906650909	Rubber cap 8	1 1	
15	217100001	Model plate	1 1	
15	217100002	Model plate		
(0)				
	1			

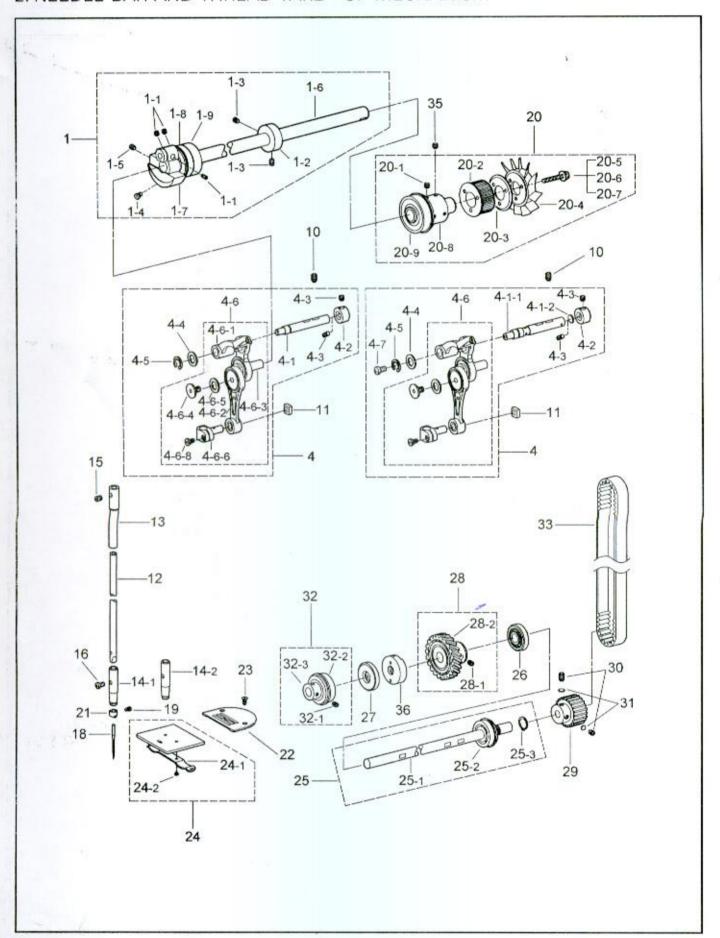
2. NEEDLE BAR AND THREAD TAKE - UP MECHANISM



2. NEEDIE BAR AND THREAD TAKE-UP MECHANISM

No.	Ref.No.	Description	Qt	Note
1	BXF9994009	Upper shaft assy	1	
1-1	BX87459009	Set screw M6x6	3	
1-2	BXF9980009	Bobbin winder driving wheel	1	Ĭ,
1-3	BX87459009	Set screw M6x6	2	
1-4	BX85875009	Screw M8	1	
1-5	BX85874009	Set screw M6X10	1	
1-6	217100012	Upper shaft	1	
1-7	217100013	Needle bar crank	1	
1-8	S150866037	Bearing NSK 6004 2ZNR	1	
1-9	S150866013	Bearing NSK 6004 2Z	1	
4	BXF8869009	Needle bar conecting rod unit	1	6720M
4	BXF8868009	Needle bar conecting rod unit	1	6720H
4	BXF8871009	Needle bar conecting rod unit	1	6723M
4-1	BXF9986009	Thread take-up support shaft	1	6720 series
4-1	BXF8919009	Thread take-up support shaft assy	1	6723M
4-1-1	BXF9979009	Thread take-up support shaft	1	6723M
4-1-2	B997086000	Wick cover	1	6723M
4-2	BXF9985009	Tighten ring	1	
4-3	B098600674	Screw M4X4	2	
4-4	BXF8949009	Washer	1	
4-5	B062040768	Retaining ring E6	1	
4-6	BXF9981009	Thread take-up lever assy	1	м
4-6	BXF9984009	Thread take-up lever assy	1	6720H
4-6-1	BXF9970009	Thread take-up small lever assy	1	M
4-6-1	BXF9983009	Thread take-up small lever assy	1	6720H
4-6-2	BXF8914009	Needle bar conecting rod set	1	M
4-6-2	BXF8913009	Needle bar conecting rod set	1	6720H
4-6-3	BX85868009	Thread take-up crank	1	м
4-6-3	BX85855009	Thread take-up crank	1	6720H
4-6-4	B965645009	Screw SM3.57-40x6L	1	
4-6-6	BX85863009	Needle bar guide	1	
4-6-7	B952383009	Oil wick 4x4	1	
4-6-8	B960006009	Screw SM3.57-40x7	1	
4-7	S8A3101005	Screw M3X6	1	
10	B098049074	Screw M6x10	2	
11	B908470009	Needle bar guide slide block	1	
12	BXF9977009	Needle bar	1	6720M
12	BXF9973009	Needle bar	1	6720H
12	BXF9975009	Needle bar	1	6723M
13	BXF8916909	Needle bar bush, U	1	988558 SOMM
14	BXF9972009	Needle bar bush, D	1	м
14	BXF9971009	Needle bar bush, D	1	Н
15	B098500574	Set screw M5x5	1	positive and the second
16	B048500494	Screw M5x6	1	
18	022200016	Needle	1	М
18	048200005	Needle	1	Н
19	B960557908	Set screw SM3.18	1	[25(3)]
1000		1000 Process 100 Color Reserved (1787) 79 Tale		

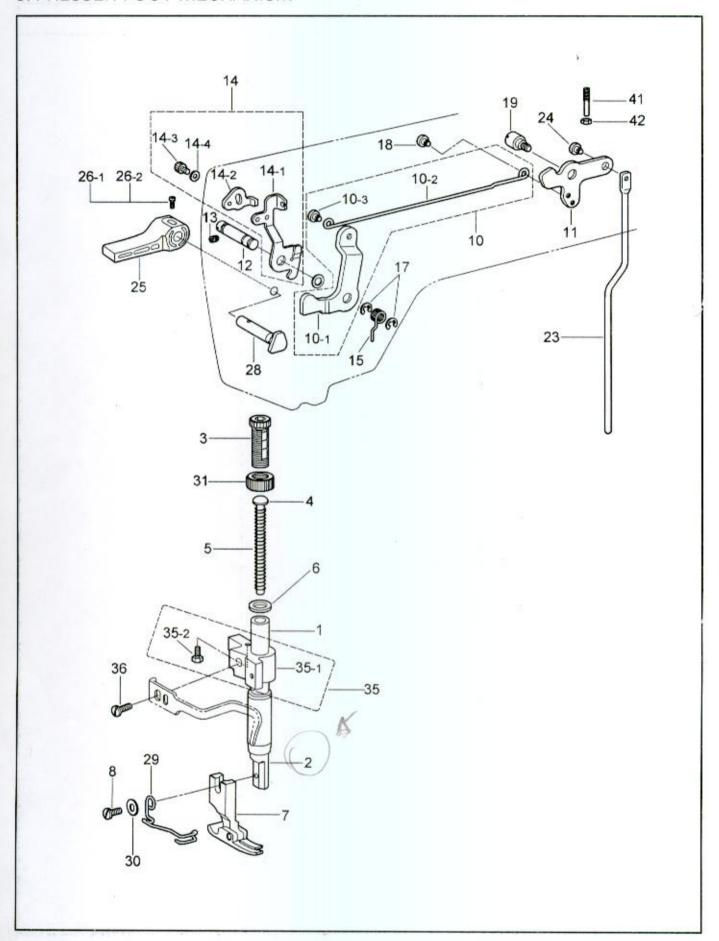
2. NÉEDLE BAR AND THREAD TAKE - UP MECHANISM



2. NEEDIE BAR AND THREAD TAKE-UP MECHANISM

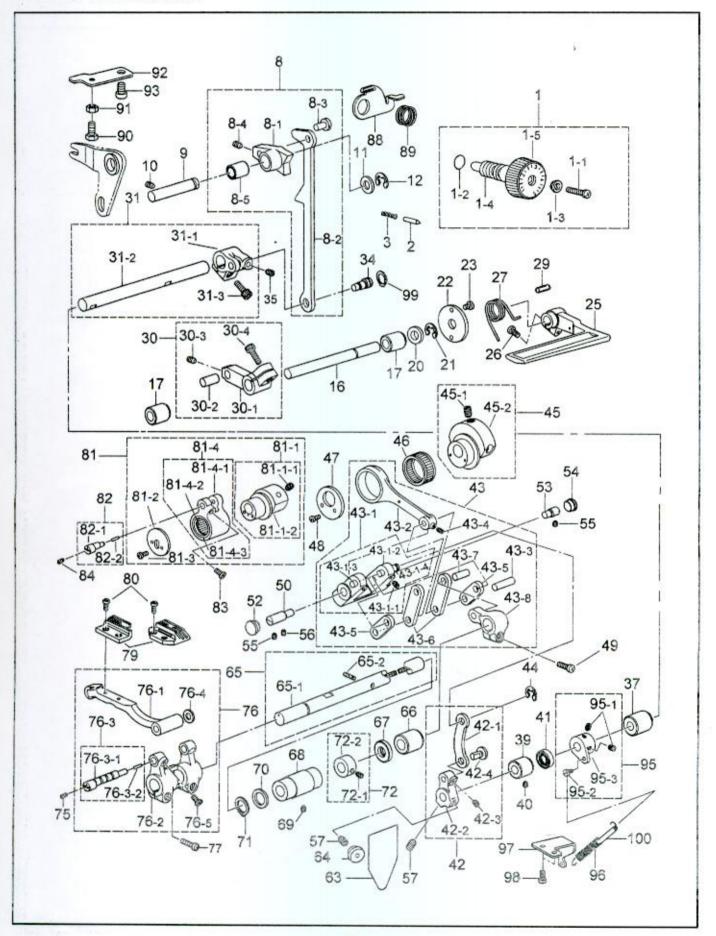
No.	Ref.No.	Description		Qt	Note
20	BXF9960009	Joint unit		1	
20-1	BX87459009	Set screw M6x6		2	5
20-2	BXF8850009	Timing pulley,U		1	
20-3	BX72398009	Flange	1	1	
20-4	BX72397900	Fan		1	
20-5	B048607598	Screw M4x35		3	
20-6	S8A3103011	Spring washer 4		3	
20-7	S8A3103008	Washer M4		3	
21	B959516009	Needle bar thread guide		1	
22	153100002	Needle plate		1	М
22	153100004	Needle plate		1	Н
23	022100020	Screw SM4.37-40x8	100	2	
24	B920092959	Slide plate assy		1	
24-1	B996549059	Spring,plate		1	
24-2	B988339059	Screw SM2.38		2	
25	BXF9967009	Lower shaft assy		1	
25-1	BXF9966009	Lower shaft		1	
25-2	S150866057	Ball bearing, NSK 6301 2ZNR		1	
25-2 25-3	B062980968	Retaining ring C12		1	
25-3 26	BX85609900	Oil seal, NOK BC4907E		11	
27	BXF9793009	Oil seal, NOK XC0028E		1	
28	BXF9944009	Lower shaft gear assy		1	
28-1	BX87459009	Set screw M6x6		2	
				1	
28-2	BXF9943009	gear		1	
29	BXF8859009	Timing pulley,D		2	
30	BX87459009	Set screw M6X6			
31	BXF8732009	Washer 4.8		2	
32	BXF9950009	Bearing bush assy			
32-1	BX87459009	Set screw M6x6		2	
32-2	S150866037	Bearing NSK 6004 2ZNR			
32-3	BXF9959009	Bearing bush R		31	
33	BXF8858009	Timing belt 570–3G7–15		3	
35	BX87459009	Set screw M6x6		2	
36	BXF8856909	Lower shaft bush	1	1	
			- 4		
			4		
			9		
			1		
			0.52		

3. PRESSER FOOT MECHANISM

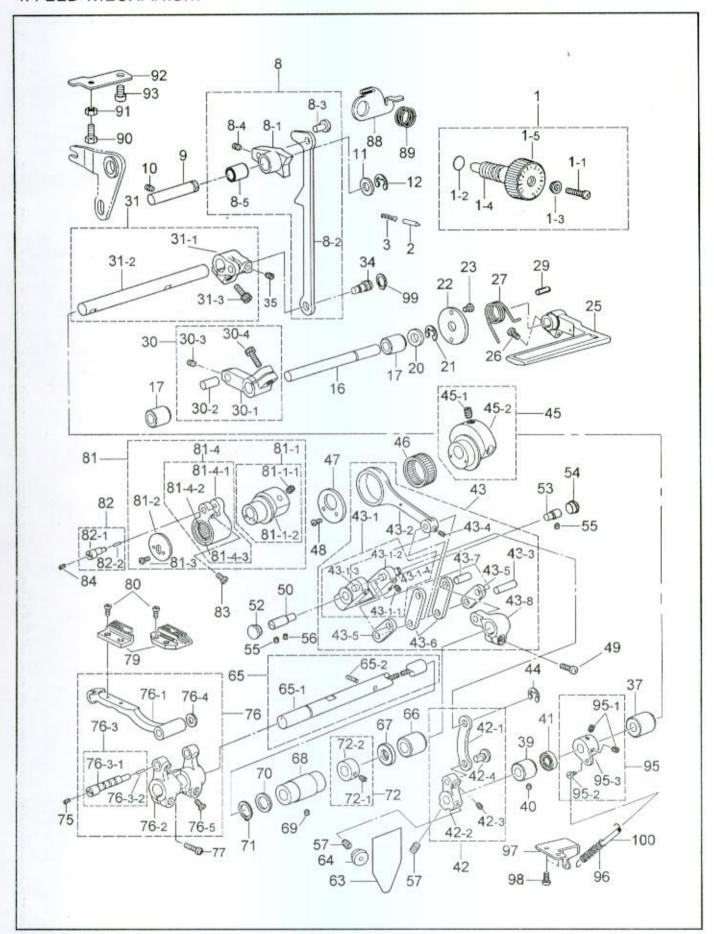


3. PRESSER FOOT MECHANISM

No.	Ref.No.	Description	Qt	Note
1	BXF9939009	Presser bar	1	М
1	BXF9937009	Presser bar	1	Н ,
20	BXF8915009	Presser bar bush	1	
3	BXF9936009	Presser adjusting screw M14	1	
1	B969802089	Spring guide	1	
5	B969382009	Presser bar spring	1	
5	B960603009	Washer	1	
7	02276	Presser foot assy	1	м
7	153720000	Presser foot assy	1	Н
В	022700015	Screw SM3.57-40x11	1	
10	BXF9934009	Presser bar lifter lever assy	1	
10-1	BXF9933009	Presser bar lifter lever	1	
10-2	BXF9932009	Knee lifter connecting rod	1	
10-3	BXF9931009	Shoulder screw M5	1	
11	BXF7120009	Knee lifter lever	1	
12	BXF9929009	Presser bar lifter lever shaft	1	
13	B098500574	Set screw M5x5	1	
14	BXF9928009	Tension release plate assy	1	**
14-1	BXF9927009	Tension release plate	1	
14-2	BXF9926009	T-release selection plate	1	
14-2	B092600578	Bolt M4x5	1	
14-3	S8A3103008	Washer M4	1	
	BXF9924009	P-bar lifter lever spring	1	
15 16	BX03750009	Washer	1	
17	B062050768	Retaining ring E5	2	
18	BXF9931009	Shoulder screw M5	1	
19	BXF9923009	Screw M6	1	
23	BXF9910009	Knee lifter bar	1	
	BXF9931009	Screw M5	1	T.
24		Lifting lever	1	
25	BX79004089 B048759894	Screw M3.5x12	1	1
26-1		Washer 4		
26-2	S8A3103003		1	
28	BX65273009	Presser bar lifter crank		
29	057700002	Finger guard	1	
30	B085750978	Washer S3.5	1	
31	BXF9935009	Adjust screw nut M14	1	
35	BXF9919009	Presser bar guide bracket assy	1	
35-1	BXF9918009	Presser bar guide bracket	1	
35-2	BXF9917009	Bolt M3x7.5	8810	
36	BX85821009	Screw M6x10	4	
41	BXF9921009	Adjust screw M6		-
42	B089040704	Nut M6	1	
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	1	110		
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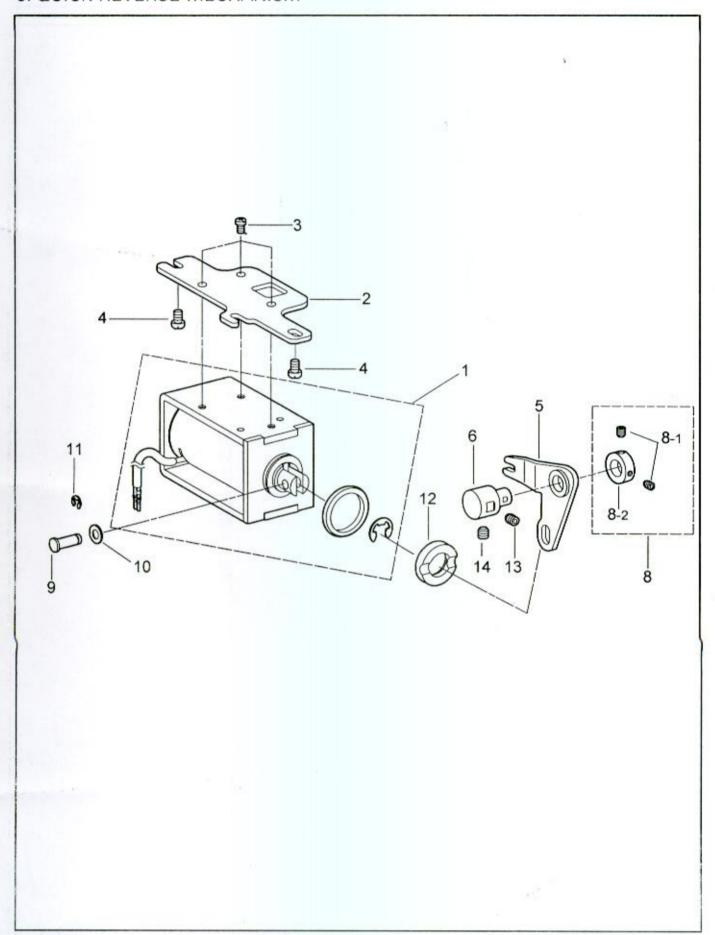


No.	Ref.No.	Description	Qt	Note
1	BXF9800009	Stitch length dial assy	1	
1-1	BX89596909	Screw SM4.76	1	
-2	124510003	O Ring	1	¥
-3	B968364088	Feed regulating supporter	1	
-4	217100008	Screw bar	1 1	
-5	BX79091009	Dial for stitch length regulator	1 1	
	BX50012009	Positioning pin	1	
	B900782009	Spring	1	
	BXF9808009	Feed regulator assy	1	
-1	BXF9807009	Feed regulator	1	
-2	BXF9806009	F- regulator connecting rod	1	
-3	8959702989	Connecting stud 12.5	1 1	
-4	B098500574	Set screw 5x5	1	
-5	B968736900	Bush L=20	1	
202	BXF9805009	Feed regulator shaft	1	
0	B098040574	Set Screw M6x5	2	
1	BX80754009	Washer S10	1 1	
2	B062020768	Retaining ring E8	1	
6	BXF9804009	Reverse sewing shaft	1 1	
7	BX85641900	Bush L=12	2	
0	B085900978	Washer S10	1	
1	B062020768	Retaining ring E8	1 1	
2	BXF9803009	Spacer	1	
3	B048500294	Screw M5x8	2	
5	BXF9802009	Reverse lever	i	
6	B048509694	Screw M5x14	3	
7	BXF9801009	Reverse lever spring	1 1	
9	B957978000	Nylon tube L=13.5	4	3
0	BXF9890009	Handle shaft arm assy	4	
0-1	BXF9899009	Handle shaft arm		
0-2	B954152089	Feed rock arm shaft pin		
0-3	B098500574	Set screw M5x5		
0-4	B092509474	Bolt M5x16		
1	BXF8256009	Feed regulator shaft assy		
1-1	BXF8250009	Feed regulator shaft arm		
1-2	BXF9896009	Feed regulator shaft		
1-3	B092509674	Bolt M5x14	4	
4	BXF8259009	Eccentric pin		
5	B098500574	Set screw M5x5		
7	BXF9895009	Feed regulator shaft bush R		
9	BXF9894009	Feed regulator shaft bush L		
0	B098040574	Set screw M6x5		
1	BXF9841009	Oil seal NOK AC0371E		
2				
	BXF9893009	Connecting rod S assy		
2-1	BX79211959	F-regulator connecting rod		
2-2	BXF9892009	Feed regulator shaft joint		
2-3	B098500574	Set screw M5x5		
2-4	B959702989	Connect pin		
3	BXF9891009	Feed regulator unit		
3-1	BXF9880009	Feed regulator assy	1	
3-1-1	B098500574	Set screw M5x5	2	
3-1-2	BXF9889909	Feed regulator	9 4	
3-1-3	B954159089	Crank short connecting pin		
3-1-4	217100010	Crank length connecting pin		
3-2	BXF9887009	Level feed connecting rod		
3-3	BXF9886009	Link shaft	1	
3-4	B098500574	Set screw M5x5	2	
3-5	BX94774009	Level feed link assy	2 2	
3-6	BX94772009	Feed rocker arm link assy	2	
3-7	BX58105009	F-rocker arm stud	1	
3-8	BXF9885009	Feed rock arm	1	
4	B062060768	Retaining ring E4	1	
5	BXF9847009	Eccentric wheel unit	1	
5-1	BX85874009	Set screw M6x10	2	
5-2	BXF9846009	Eccentric wheel	1	
6	S150866058	Roller bearing K25X29X10	i	
7	BX85789009	Guardrail splint	1	



B048509694 BXF9884009 B906661009 BXF9883009 BXF9882009 B098040574 S150225001 BX87459009	Screw M5x14 Feed regulator shaft L Rubber cap 15.5 Feed regulator support shaft Rubber cap 14.5	1 1 1	i i
BXF9884009 B906661009 BXF9883009 BXF9882009 B098040574 S150225001	Rubber cap 15.5 Feed regulator support shaft	1	¥.
BXF9883009 BXF9882009 B098040574 S150225001	Feed regulator support shaft	1	Y .
BXF9882009 B098040574 S150225001		1	1997
B098040574 S150225001	Rubber can 14.5		
B098040574 S150225001	THE POST OF THE PO	1	
S150225001	Set screw M6x5	2	
	Set screw M6x8	1	
	Set screw M6x6		
		2	
001C00010	Rubber cap label	1	A CONTRACTOR OF THE CONTRACTOR
BX76758909	Rubber cap 13.5		
BXF9870009	Feed rock shaft assy	1	
사용하다 되었다면 하다 아이들이 보고 있다고 있다.			
BXF8948009			
BXF9874009	Feed shaft bush R	1	
	Oil seal NOK XC0029E	1	
		1	
		1	
		1	
		1	
		1	
		2	
		1	
B096700678		1	
BXF9872709	Feed bar assy	1	
BXF9871809	Feed bar	3	
BXF9860009	Feed rock bracket arm	1	
	Feed bar shaft unit	1	
		1	
		1 1	
	1.00 CO (1.00 D)	1	
		1 1	
		1	
022600002	Feed dog	100	M
153600001	Feed dog		H
	Screw SM3.18-44x6	2	
	F-lifting eccentric wheel assy	1	M
F. 1020/2007 (1020/2020/2000)		1	i H
		1	M
		1	H
		2	
		1	M
		1 1	I H
		1	T-IT
			1
217101000			
217101001		11 22	
S150866055	needle bearing K20X24X13	1	1
217101002	retaining ring	2	
BXF8609009		1	1
		1	
		1	
		-	
			1
	Spring	1	
BXF8763009	Bolt M5x16	1	
B089500794	Nut M5	1	1
BXF9830009	Stopper setting plate	1	
B048049094	Screw M6x10	1	
		1	
		2	1
		1	1
			A .
	Spring		A.
			1
B048500294		2	
B062900968			
	BXF9879009 BXF8948009 BXF9874009 BXF9873009 BXF9877009 B098040574 B954867089 B062950968 BXF9876009 BXF9875009 BXF9875009 BXF9871809 BXF9860009 BXF9860009 BXF9860009 BXF9860009 BXF9860009 BXF9868009 BXF9869009 BXF8869009	BXF9879009 BXF9874009 BXF9873009 BXF9877009 BXF9877009 BNF9877009 BNF9877009 BNF9877009 BNF9877009 BNF9877009 BNF9876009 BXF9876009 BXF9875009 BXF9875009 BNF9875009 BNF9875009 BNF9871809 BXF9876009 BXF9878009 BXF9878000 BXF9878009 BXF9878009 BXF9880009 BXF9880009 BYF9860009 BYF98600002 BNF98600002 BNF98600002 BNF98600002 BNF98600002 BNF98600002 BNF98600002 BNF98600002 BNF986000002 BNF98600002 BNF98600002 BNF98600002 BNF98600002 BNF98600002 BNF986000002 BNF986000002 BNF986000002 BNF986000002 BNF986000000000000000000000000000000000000	BXF9874009 Feed rock shaft Felt

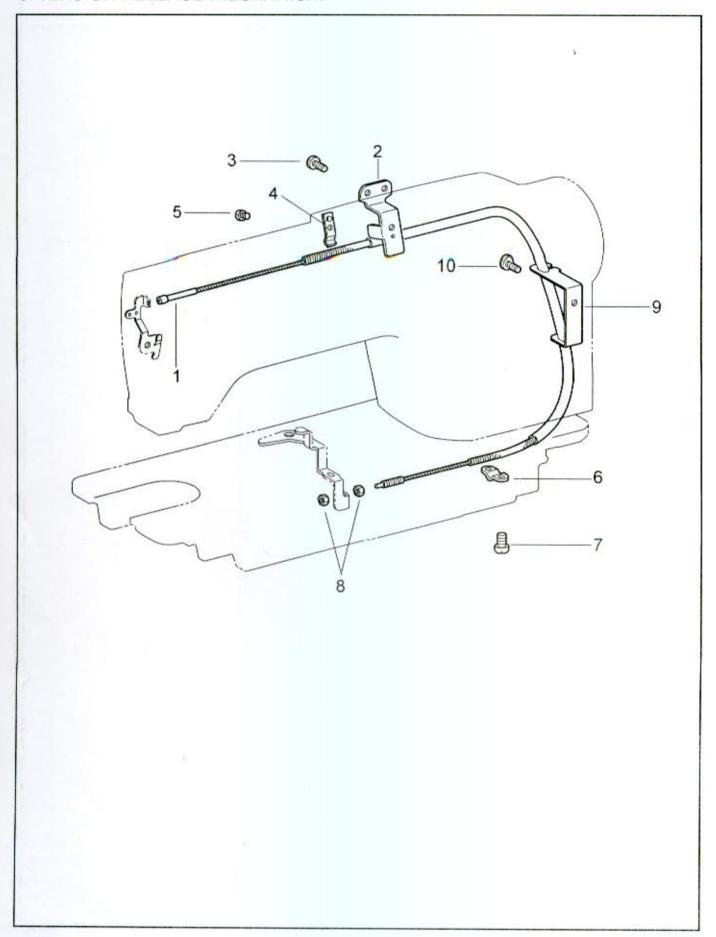
5. QUICK REVERSE MECHANISM



5. QUICK REVERSE MECHANISM

No.	Ref.No.	Description	Qt	Note
	BXF9711909	Backstitch solenoid assy	1	50
2	BXF9852009	Solenoid base	1	•
3	B048500294	Screw M5x8	3	
1	B048049094	Screw M6x10	3	
5	BXF8258009	Solenoid lever	1	
3	BXF8266009	Solenoid lever shaft	1	
3	BXF8262009	Set collar assy	1	
3–1	B098500574	Set screw M5X5	2	
3–2	217100006	Set collar	1	
)	BXF8118009	Connect pin	1	
0	B957972009	Washer 6.5	1 1	
1	W120607001	Retaining ring C6	1 1	
2	BXF8824009	Rubber cushion	1 1	
3	B098040574	Set screw M6x5	1	
14	B098500574	Set screw M5x5	1 1	
-	003000074	Jet Screw Midxo	//	
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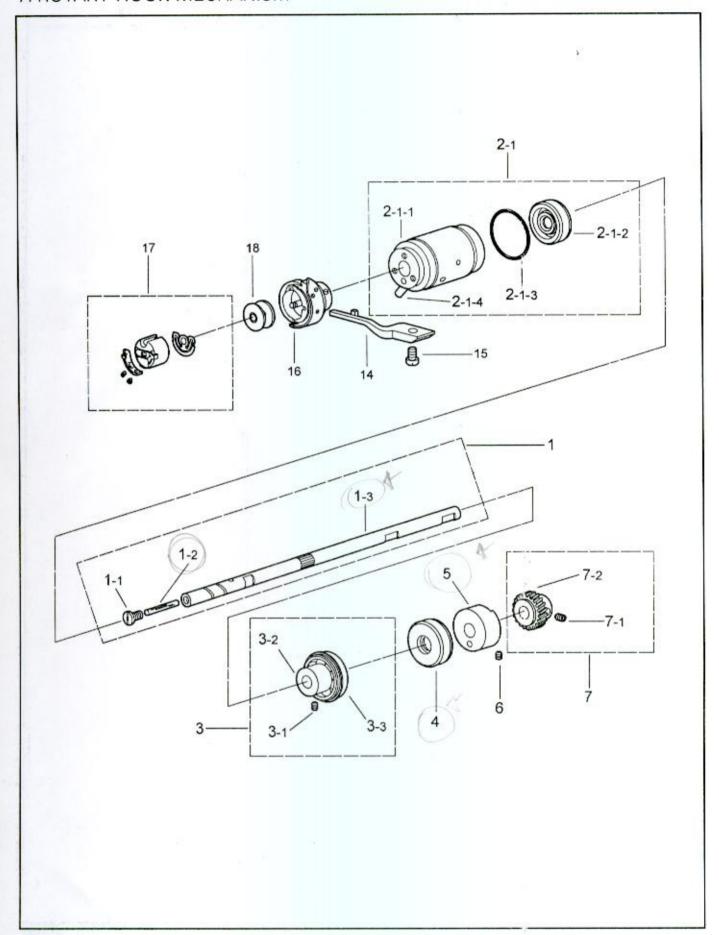
6. TENSION RELEASE MECHANISM



6. TENSION RELEASE MECHANISM

No.	Ref.No.	Description	Qt	Note
1 2 3 4 5 6 7 8 9	BXF9739009 BXF9738009 B048500294 BXF9737009 B040600594 B956403909 B040600294 B990949006 BXF8939009 B048500294	Tension release steel wire Wire holder U Screw M5x8 Wire holder U Screw M4x5 Wire holder D Screw M4x8 Nut SM4.76 Wire cord holder Screw M5X8	1 1 2 1 1 1 2 2 2 1	

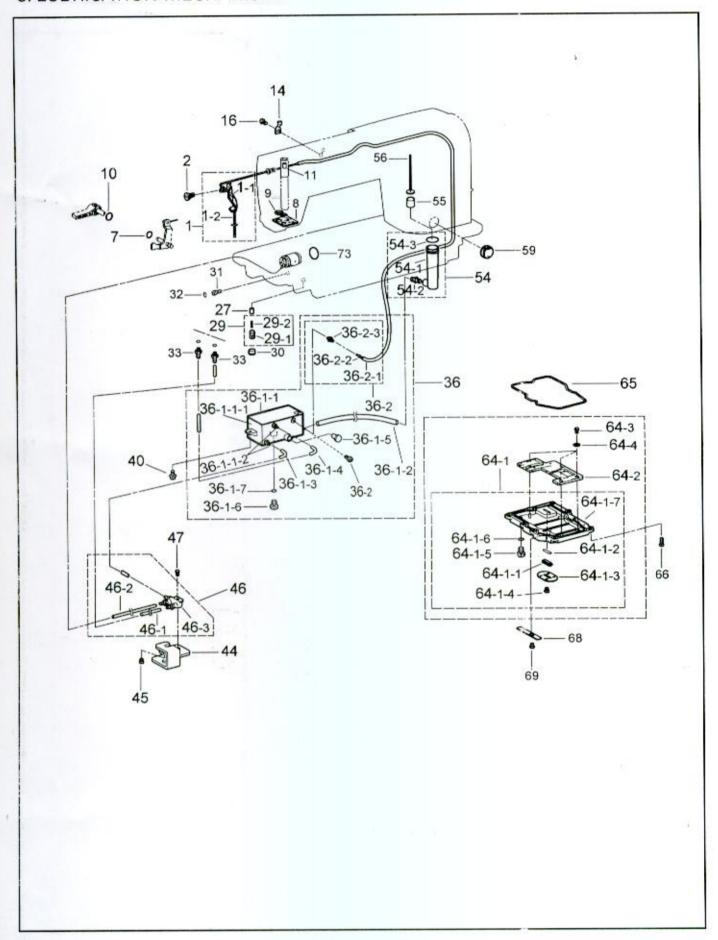
7. ROTARY HOOK MECHANISM



7. ROTARY HOOK MECHANISM

No.	Ref.No.	Description	Qt	Note
1-1	BXF9839009	Rotary hook shaft assy	1	
1-1-1	BX85716009	Screw M5-0.8	1	¥3
1-1-2	B965359009	Felt	1	
1-1-30	BXF9838909	Rotary hook shaft	1	
2-1	BXF8369009	Pump bush unit	1	
2-1-1	BXF9835909	Pump bush	1	
2-1-2	001506003	Oil seal NOK AC0158A	1	
	B029085230	O ring S25	1	
2-1-3	217100023	Oil nib		N a
2-1-4		Bearing bush assy	1 1	
3	BXF9829009	Set screw M6x6	2	
3-1	BX87459009		1	
3-2	BXF9828009	Bearing bush		4
3-3	S150866056	Bearing NSK 6901 2ZNR	1	
4 /	BXF9826009	Oil seal NOK XC0027E	1	
50	BXF9825009	Rotary hook shaft gear bush	1	
6	B098040574	Set screw M6x5	1	
7	BXF9824009	Rotary hook shaft gear assy	1	2
7-1	BX87459009	Set screw M6x6	2	
7-2	BXF9823009	Rotary hook shaft gear	1	
14	BX08408089	Hook stopper	1	M
14	B951786089	Hook stopper	1	H
15	B048609894	Screw M4X12	1	
16	03643	Rotary hook	1	M
16	048400101	Rotary hook	1	Н
17	03642	Bobbin case assy	1	
18	036400006	Bobbin	1	M
18	048400003	Bobbin	1	H
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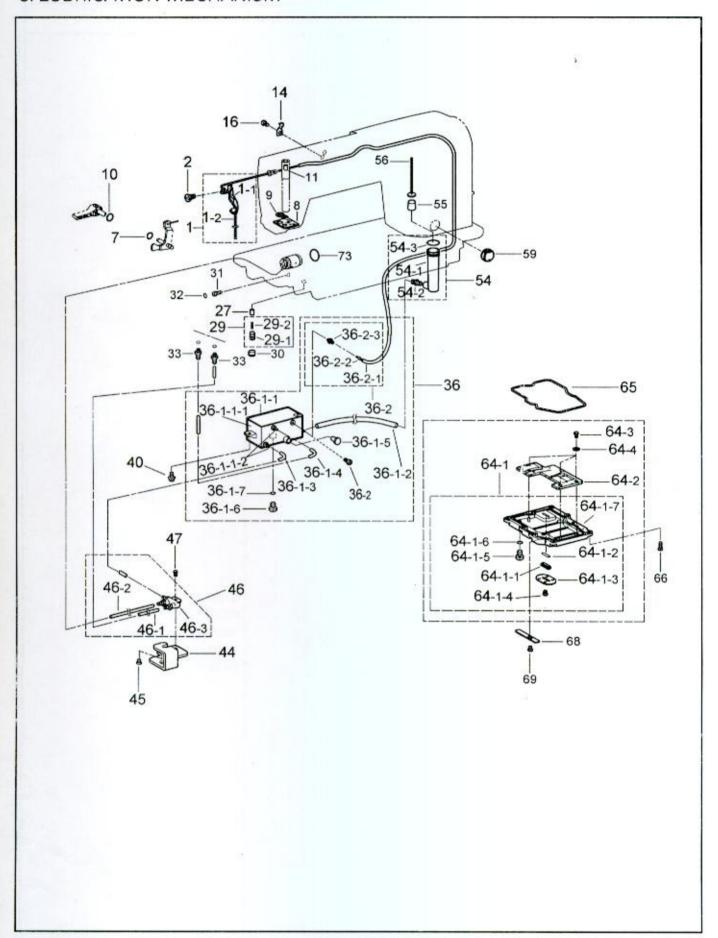
8. LUBRICATION MECHANISM



8. LUBRICATION MECHANISM

1	Ref.No.	Description	Qt	Note	
	BXF9818009	Wick holder assy	1	6720	
1-1	BXF9817009	Wick holder	1	6720	
1-2		Wick	1	6720	
2	B048500494	Screw M5x6	1	1	
7	B029006030	O ring P4	1	1	
8	BX72341000	Felt	1		
9	B965373089	Felt support	1		
10	B029006030	O ring P4	1	1	
11	BX06470000	Needle bar cork	1	6720 M	
11	B999247009	Needle bar cork	1	6720 H	
14	BXF9815009	Cord holder T2	1	6720	
		Screw M5x8	1	6720	
16	B048500294		4	6720	
27	B966235009	Plunger	1		
29	BX67605909	Pump cap screw assy	1		
29-1	BX85720609	Screw			
29-2	B966234009	Spring compression	1		
30	B906289009	Rubber cap 10.5	1		
31	BX85729009	Adjusting screw	1		
32	B029006230	O ring S4	1		
33	BX85728009	Oil feeding pipe	2		
36	BXF7955009	Oil tank set	1	6720	
36	BXF7954009	Oil tank set	1	6723	
36-1-1	BXF7952009	Oil tank assy	1		
36-1-1-1	217120000	Oil tank	1.1		
36-1-1-2	BX85728009	Oil feeding pipe	2		
36-1-2	BXF9700009	Vinyl tube 6X8 L=180	1		
36-1-3	BXF7940009	Vinyl tube 3X5 L=25	1		
36-1-4	BXF9708009	Vinyl tube3X5 L=100	1		
36-1-5	B906650909	Rubber cap 8	1		
36-1-6	BXF9707009	Screw M8	1		
36-1-7	B029002030	O ring P8	1		
36-1-8	BX85728009	Oil feeding pipe	2		
36-2	BXF8767009	Vitta assy	1	6720	
36-2-1	BXF9706009	Vinyl tube 3X5 L=700	1	6720	
36-2-2	BXF9705009	Nylon wick L=1000	1	6720	
36-2-3	BX85728009	Oil feeding pipe		6720	
		Screw M5X8	1		
36-2	B048500294	Screw M5X12	1	6723	
40	B048509894		2		
	B082050864	Spring washer 2–5	2		
	B085050774	Washer 5	2		
44	BXF7975009	Terminal setting base	1		
45	B048500494	Screw M5X6	1	7	
46	BXF7949009	Terminal assy	1		
46-1	BXF7947009	Vinyl tube 3X5 L=60	1		
46-2	BXF7948909	Vinyl tube 3X5 L=120	1		
46-3	217100005	Terminal	1		
	BX85728009	Oil feeding pipe	3		
46-4	B040600594	Screw M4x5		I I	

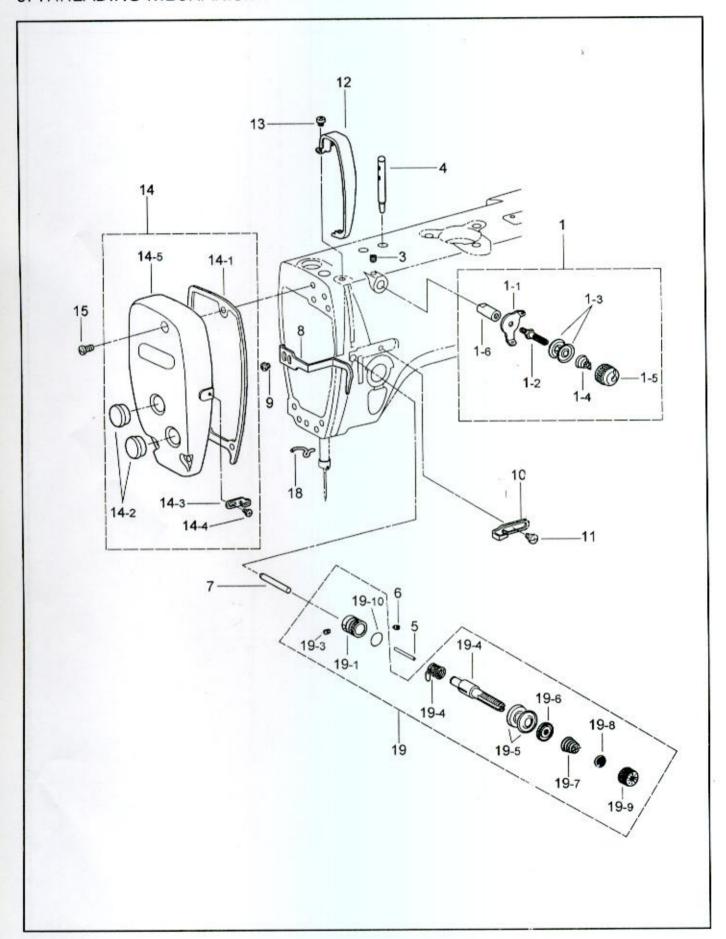
8. LUBRICATION MECHANISM



8. LUBRICATION MÉCHANISM

No.	Ref.No.	Description	Qt	Note
54	BXF9704009	Sub tank assy	1	
4-1	BXF9703009	Sub tank	1	\$0
64-2	BX59295009	Oil feeding pipe 8.6	1	
64-3	B029088230	O ring S22	1	
55	BX63623009	Float	1	
6	BXF9701009	Oil gage	1	
59	BX63501009	Oil gauge window	1	
4	BXF6558009	Bed bottom cover unit	1	
4-1	BXF9799009	Bed bottom cover assy	1 1	
4-1-1	BX59838000	Oil window B-cover	1	
4-1-2	B029095230	O ring S15	1	
4-1-3	BXF9797009	Window cover	1 1	
4-1-4	B048500494	Screw M5x6	4	
4-1-5	BXF9707009	Screw M8	1 1	
4-1-6	B029002030	O ring P8	1	
4-1-0	217100014	Bed bottom cover	1	
4-1-7				
	BXF9795709	Bottom cover felt	3	
4-3	B048600494	Screw M4X6	3	
4-4	S150632001	Washer plain L4	3	
5	BXF9796009	Bottom cover packing	1	
6	B048509894	Screw M5x12	9	
8	BXF9794009	Cord holder plate	1	
9	B048500494	Screw M5x6	1	
3	B029081230	O ring S29	1	

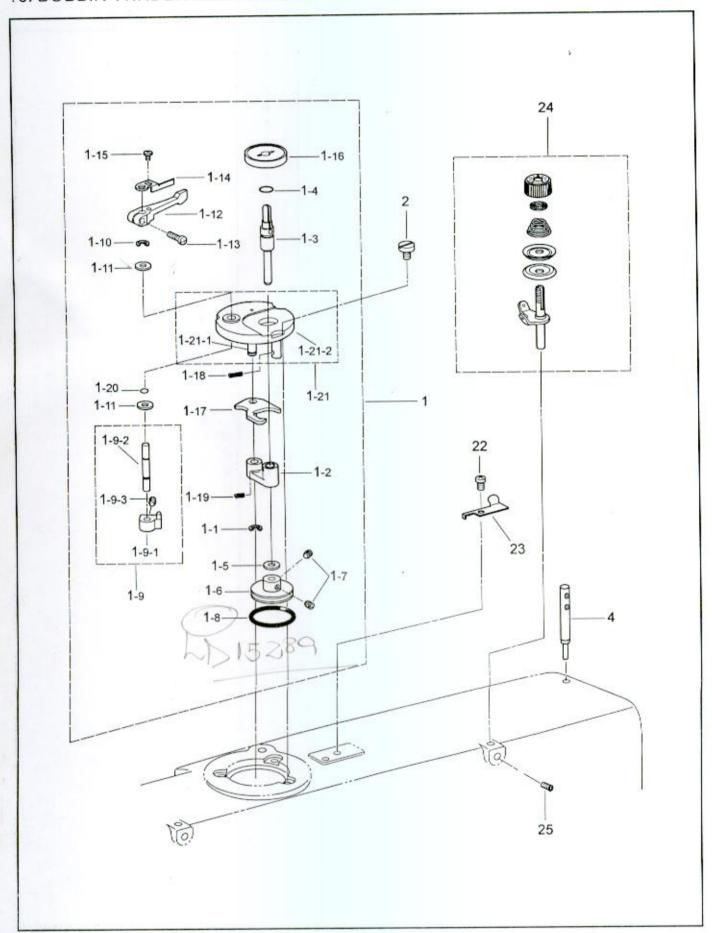
9. THREADING MECHANISM



9. THREADING MECHANISM

No.	Ref.No.	Description	Qt	Note
1	B927732009	Pre-tension assy B	1	
1-1	BX08499009	Thread guide	1	¥
1-2	BX08498009	Thread guide tension stud	1	
-3	B966506009	Thread guide disc	2	
-4	B956548009	Pre-tension spring B	1	
3	B098500574	Set screw M5x5	1	
1	BXF9751009	Spool pin	1	
5	BX09691000	Tension release pin	1	
3	BXF9881909	Set screw M6x6	1	
7	BXF9767009	Tension release stud	1	
3	BXF8693009	Thread guide P-bar bracket	1	
9	B048600294	Screw M4x8	1	
10	BXF9765009	Arm thread guide R	1	
11	B040500494	Screw M5x6	1	
12	BXF9768001	Thread take-up lever cover	1	
13	B048500414	Screw M5x6	1	
14	BXF9149009	Face plate assy	1	
14-1	217100018	Face plate packing	1	
14-2	B906661009	Rubber cap 15.5	2	
14-2	BX08493009	Face plate thread guide	1	
14-3	B040750494	Screw M3.5x6	1	
		- 1000 100 및 BROTHERSEN	1	
14-5	217100007	Faceplate	- 37	
15	B048509694	Screw M5x14	3	1
18–1	B900537009	Thread guide D	1	M
18-2	B962109009	Thread guide D	1	H
19	BX55456009	Thread tension bracket assy	1	M
19	BX55455009	Thread tension bracket assy	1	Н
19-1	BX60172009	Thread tension bracket	1	
19–2	B994188009	Tension stud	1	
19–3	B900608006	Set screw SM3.57	1	
19-4	BX08480009	Thread take-up spring	1	
19-5	B965664009	Tension disc	2	
19–6	B951205009	Tension disc presser	1	
19–7	B906585009	Tension spring	1	M
19-7	BX06478009	Tension spring	1	Н
19-8	BX98669009	Washer	- 1	
19-9	BX79078009	Tension nut	1	
19-10	B996816009	O ring	1	
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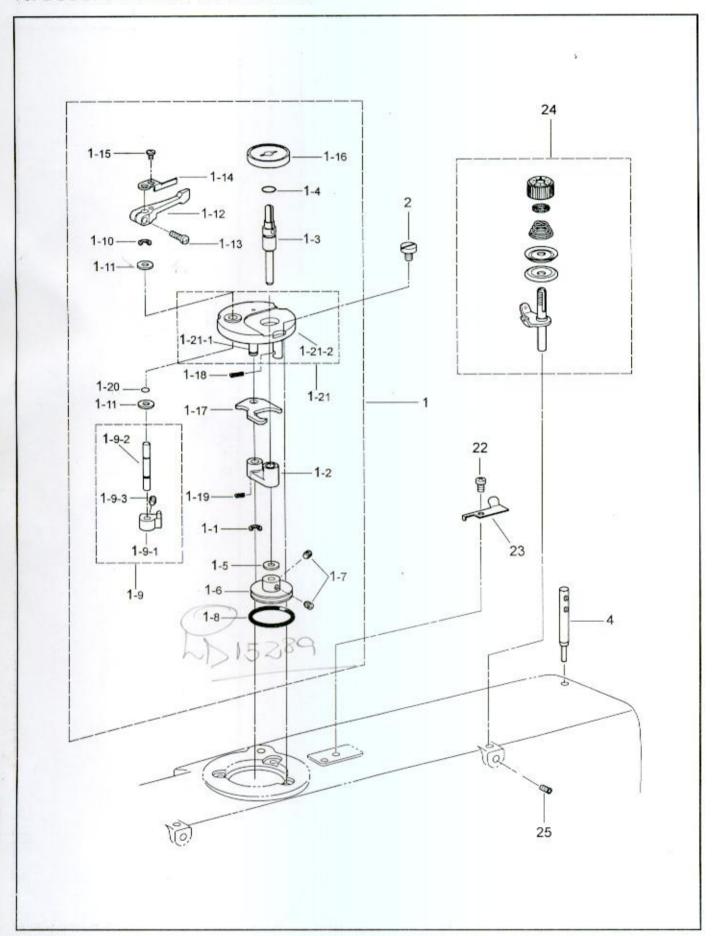
10. BOBBIN WINDER MECHANISM



9. THREADING MECHANISM

1-1 E E E E E E E E E E E E E E E E E E	3927732009 3X08499009 3X08498009 3966506009 3956548009 3098500574 3XF9751009 3XF9691000 3XF9881909 3XF98693009 3XF8693009 3XF8693009	Pre-tension assy B Thread guide Thread guide tension stud Thread guide disc Pre-tension spring B Set screw M5x5 Spool pin Tension release pin Set screw M6x6 Tension release stud Thread guide P-bar bracket	1 1 1 2 1 1 1 1	*
1-2 E E E E E E E E E E E E E E E E E E E	3X08498009 3966506009 3956548009 3098500574 3XF9751009 3X09691000 3XF9881909 3XF9767009 3XF8693009 3048600294	Thread guide tension stud Thread guide disc Pre-tension spring B Set screw M5x5 Spool pin Tension release pin Set screw M6x6 Tension release stud	1 1 2 1 1 1 1	\$ () () () () () () () () () (
1-3 E E E E E E E E E E E E E E E E E E E	3966506009 3956548009 3098500574 3XF9751009 3X09691000 3XF9881909 3XF9767009 3XF8693009 3048600294	Thread guide disc Pre-tension spring B Set screw M5x5 Spool pin Tension release pin Set screw M6x6 Tension release stud	1 2 1 1 1 1	
1 – 4 E E E E E E E E E E E E E E E E E E	3956548009 3098500574 3XF9751009 3X09691000 3XF9881909 3XF9767009 3XF8693009 3048600294	Pre-tension spring B Set screw M5x5 Spool pin Tension release pin Set screw M6x6 Tension release stud	2 1 1 1 1 1 1 1 1	
3 E E E E E E E E E E E E E E E E E E E	3098500574 3XF9751009 3X09691000 3XF9881909 3XF9767009 3XF8693009 3048600294	Set screw M5x5 Spool pin Tension release pin Set screw M6x6 Tension release stud	1 1 1 1	
4 E E E E E E E E E E E E E E E E E E E	3XF9751009 3X09691000 3XF9881909 3XF9767009 3XF8693009 3048600294	Spool pin Tension release pin Set screw M6x6 Tension release stud	1 1 1	
5 E E E E E E E E E E E E E E E E E E E	3X09691000 3XF9881909 3XF9767009 3XF8693009 3048600294	Tension release pin Set screw M6x6 Tension release stud	1 1	
6 E E E E E E E E E E E E E E E E E E E	3XF9881909 3XF9767009 3XF8693009 3048600294	Set screw M6x6 Tension release stud	1	
7 E B E 9 E 10 E	3XF9767009 3XF8693009 3048600294	Tension release stud	1	I i
B E E E E E E E E E E E E E E E E E E E	3XF8693009 3048600294			
9 E 10 E 11 E	3048600294	Thread guide P-bar bracket	1	
10 E			1	
11 8	3XF9765009	Screw M4x8	1	
Committee of the Commit		Arm thread guide R	1	
12 E	3040500494	Screw M5x6	1	
	BXF9768001	Thread take-up lever cover	1	
13 E	3048500414	Screw M5x6	1	
14 E	BXF9149009	Face plate assy	1	
14-1 2	217100018	Face plate packing	1	
14-2 E	B906661009	Rubber cap 15.5	2	
100 (CO)	BX08493009	Face plate thread guide	1	
British Co.	8040750494	Screw M3.5x6	1	
	217100007	Faceplate	1	
Bigging 1	8048509694	Screw M5x14	3	
\$350 mag	B900537009	Thread guide D	1	М
	B962109009	Thread guide D	1	Н
No. of the last of	BX55456009	Thread tension bracket assy	1	M
1000	BX55455009	Thread tension bracket assy	1	H
(E10) (10)	BX60172009	Thread tension bracket	1	
	B994188009	Tension stud	1	
	B900608006	Set screw SM3.57	1	
Description 100	BX08480009	Thread take-up spring	1	
100 P. C.	B965664009	Tension disc	2	
	B951205009	Tension disc presser	1	
	B906585009	Tension spring	1	М
ROPES I.O.	BX06478009	Tension spring	1	Н
100000000000000000000000000000000000000	BX98669009	Washer	1	2.0
100000000000000000000000000000000000000	BX79078009	Tension nut	1	
	3996816009	Oring	1	
10 10	3330010003	Olling	\$2.	
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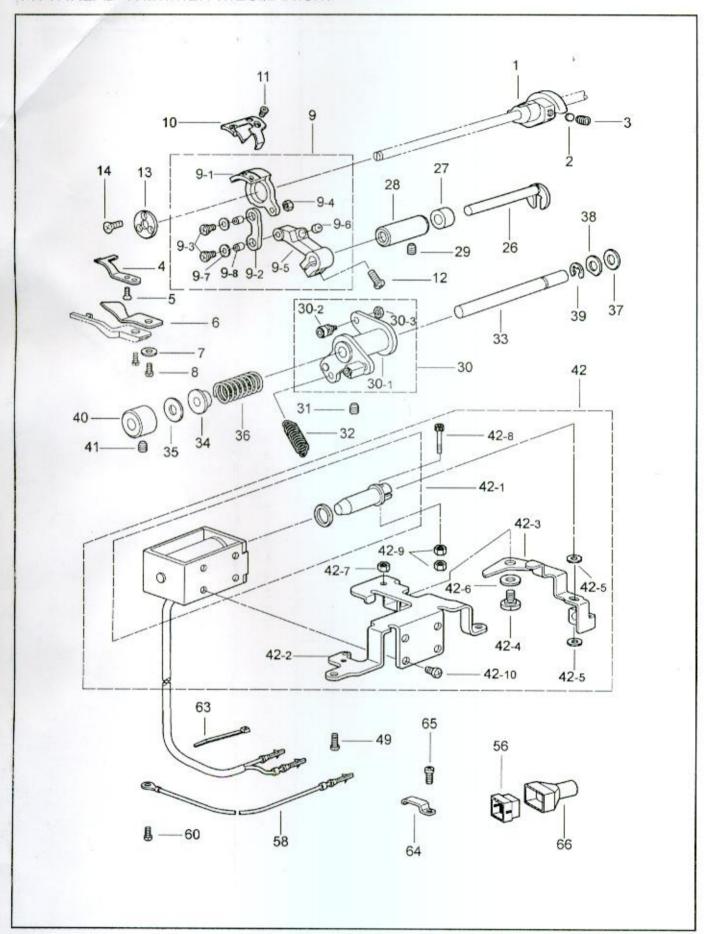
10. BOBBIN WINDER MECHANISM



10 BOBBIN WINDER MECHANISM

No.	Ref.No.	Description	Qt	Note
Victorial in	BXF9139909	Bobbin winder unit	1	
-1	B062060768	Retaining ting E4	1	à.
-2	BXF9135009	B-winder shaft support assy	1	
-2-1	BXF9117009-	Copper bush	2	
-2-2	BXF9134009	B-winder shaft support	1	
-3	BXF9132009	Bobbin winder shaft	1	
-4	B029001030	O ring P9	1	
-5	B085040974	Washer plain S6	1	
-6	BXF9120009	Bobbin winder wheel	1	
-7	B098500574	Set screw M5x5	2	
-8	BX85321000	Rubber ring 29 = 115289	1	
-9	BXF9129909	Bobbin presser cam assy	1	
	BXF9128908	Bobbin presser cam	1	
-9-1	BXF9127009	Bobbin winder arm shaft	1	
-9-2		Set screw M5x5	1	
-9-3	B098500574		1	
1-10	B062060768	Retaining ring E4	2	
1-11	B085040974	Washer plain S6	1	
1-12	BXF9126009	Bobbin presser arm		
1-13	B048609894	Screw M4x12		
1-14	BXF9125009	Bobbin presser	1	
1-15	BX87692008	Screw M4x5	2	
1-16	BXF9122009	Bobbin support	1 1	
1-17	BXF9121009	Bobbin winder lever	1 1	
1-18	BXF9110909	Spring	1	
1-19	BXF9119009	Bobbin winder base spring	1 1	
1-20-	BXF8910009	O ring SS5	1	
1-21-	BXF9138009	Bobbin winder support assy	1	
1-21-1	BXF9137009	Bobbin winder support shaft	1	
1-21-2	BXF9136009	Bobbin winder support	1	
2	BXF9118009	Bobbin winder fixed screw	3	
4	BXF9751009	Spool pin	1	
23	BXF9740009	Knife	1	
22	B048500494	Screw M5x6	1	
24	BXF9116009	Bobbin winder tension assy	1	
25	B098500574	Set screw M5x5	1	
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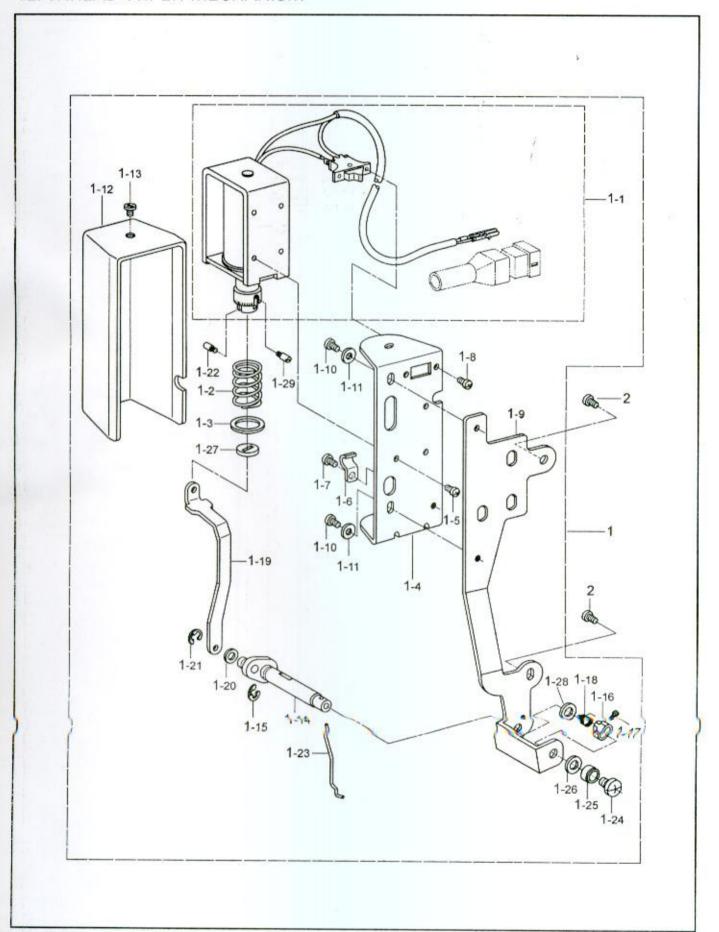
11. THREAD TRIMMER MECHANISM



11. THREAD TRIMMER MECHANISM

No.	Ref.No.	Description	Qt	Note
1	BX00773089	Thread trimmer cam	1	
2	165400001	Spacer 5.3	2	
3	B096339088	Set screw SM 6.35	2	3
4	BX08473009	Fixed knife	1	
õ	B908267006	Screw SM 3.57	1	
3	BX08467009	Lower thread finger	1	
7	B084060874	Washer M 4	1	
3	B048600494	Screw M4x6	1	
,	BXF8096809		1	
))-1		Thread trimmer holder assy Holder M-knife	1 1	
	BX85686009	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	1	
)-2	BX85684009	Thread trimmer connecting rod	1	
9-3	B040609094	Shoulder screw M4x10	2	
) -4	B089600704	Nut M4	1	
9-5	BXF9749009	Thread trimmer lever	1	
9-6	BX85673000	Lever stopper	1	
9-7	217100024	Washer	2	
9-8	217100025	Roller	2	
0-1	BX08465009	Movable knife	1	
1	036720003	Screw SM4.37	2	
2	B048509694	Screw M5x14	1	
3	BX85685009	Knife holder presser plate	1 1	
4	B006709094	Screw M3x10	3	
26			3	
	BX08463089	Forked shaft	1 1	
!7	BX08462089	Collar	1	
18	B956529089	Forked shaft bush	1 1	
29	B098040574	Set screw M6x5	1	
80	BXF9748009	Thread trimmer lever unit	1	
30-1	BXF9747009	Thread trimmer lever assy	1	
30-2	BXF8852009	Roller shaft C assy	1	
30-3	B905876007	Nut SM4.37	1	
31	BX87459009	Set screw M6x6	1 1	
32	BXF8727009	Cam lever spring	1	
33	B956517889	Thread trimmer cam lever shaft	1 1	
34	B956516080	Collar	1	
85	BX85676000	Rubber cushion		
86	B956515009			
	1,50,5000 CV (m) CC (s,0,0,0,0,0,0,0,0)	Spring extension		
37	B956514000	Cushion	1	
88	B990743009	Washer plain special E8	1	
9	B062040768	Retaining ring E6	1	
0	BXF9744009	Cam lever shaft bush	1	
11	B098040574	Set screw M6x5	1	
2	BXF9719909	Thread trimmer solenoid assy	1	
2-1	BXF9718009	Thread trimmer solenoid	1	
2-2	BXF9743009	Thread trimmer solenoid base	1	
2-3	BXF9742009	Solenoid lever	1	
2-4	BXF9730009	Shoulder screw M6	4	
2-5	BXF8013909	Silent sheet	2	
2-6	B955551089	Washer	2	
2-7	B089040704	Nut M6		
2-8	BXF9741009	Bolt socket M4x22		
2-9	B089600904	Nut M4	2	
2-10	B048600294	Screw M4x8	4	
9	B048509894	Screw M5x12	3	
6	108500003	12-Core connector	- 1	
8	036770000	Ground wire assy	1	
0	B048500294	Screw M5x8	1	
3	W060402029	Band	1	
4	BXF9716009	Cord holder U3	1	
5	B048500294	Screw M5x8	1	185
-	036700017	Connector cap	134	

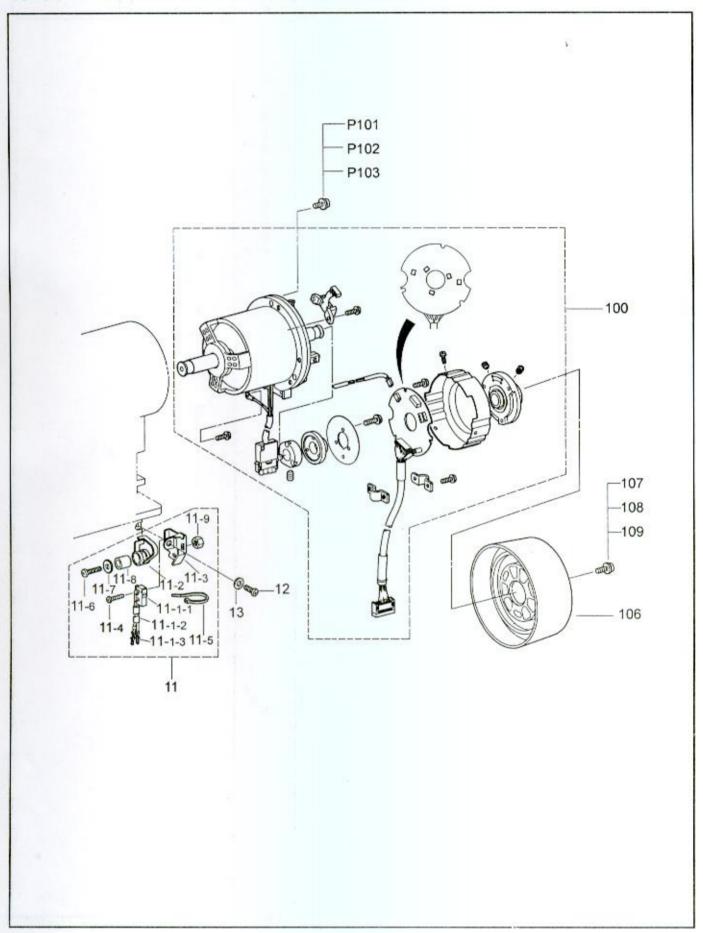
12. THREAD WIPER MECHANISM



12. THREAD WIPER MECHANISM

No.	Ref.No.	Description	Qt	Note
1	BXF9736809	Thread wiper device assy	1	
1-1	BXF9714009	Thread wiper solenoid assy	1	3
1-2	BX69804009	Thread wiper spring	1	
1-3	BX69805009	Washer	1	
1-4	BX85661889	Solenoid setting plate	1	
1-5	S8A3101005	Screw M3x6	3	
1-6	B960463909	Cord holder	1	
1-7	S8A3101005	Screw M3x6	1	
-8	S8A3101005	Screw M3x6	2	
-9	BXF9734009	Thread wiper base	1	
1-10	B048600494	Screw M4x6	2	
1-11	B084060874	Washer 4	2	
1-12	BX77490989	Solenoid cover	1	
1-13	B040600594	Screw M4x5	1	
1-14	BXF9143009	Thread wiper crank assy	1	
1-15	B062060768	Retaining ring E4	1	
1-16	BX85656089	Set screw collar	1	
1-17	BX85831009	Set screw M3.5-5		
1-18	BXF8823009	Spring		
1-19	BXF9733009	Thread wiper rod	1	
1-20	B990375088	Washer 8	1	
1-21	B062070768	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		
		Retaining ring E3		
-22	BX85654089	Plunger pin		
1-23	BXF9732809	Thread wiper	1 1	
1-24	B040600594	Screw M4x5	1 1	
1-25	B964822089	Thread wiper stud collar	1 1	
1-26	BX07433089	Washe	1	
1-27	BX69803000	Spacer rubber	1	
1-28	B961013000	Silent sheet	1	
1-29	BX85654089	Plunger pin	2	
2	B048500294	Screw M5x8	2	
		4		

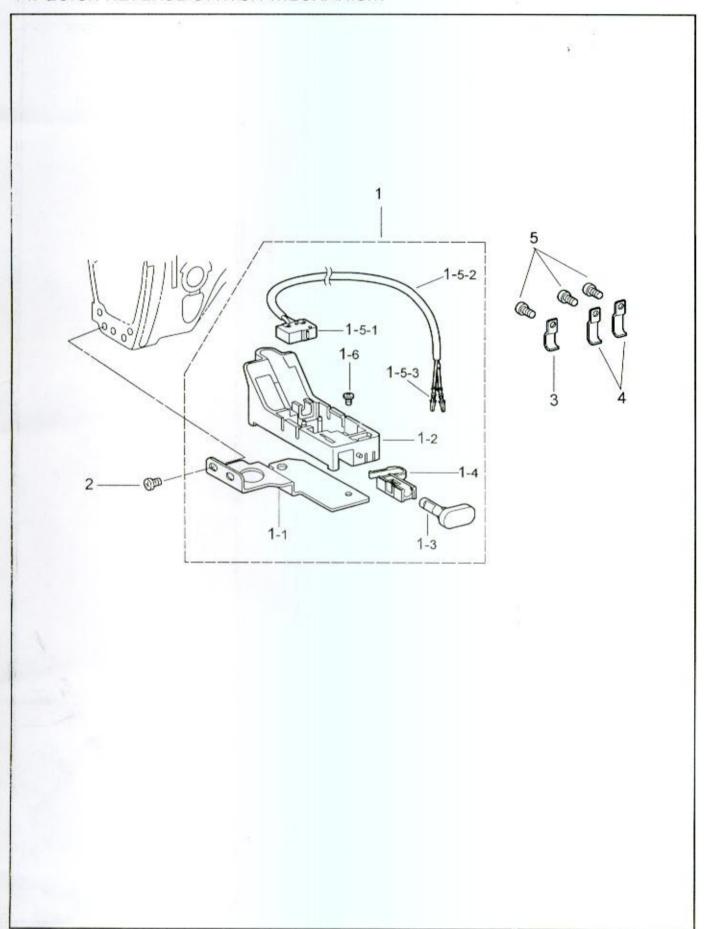
13. CONTROL BOX AND MOTOR MECHANISM



13. CONTROL BOX AND MOTOR MECHANISM

No.	Ref.No.	Description	Qt	Note
11	BXF9726009	Safety switch assy	1	
11-1-1	038630004	Micro switch	1	\$
11-1-2	001C12005	Down-lead	1	
11-1-3	036911002	Terminal pin, male	2	
11-2	BX72366909	Switch plate spring	1	
11-3	BXF9727009	Switch base	1	
11-4	S4B1503009	Screw M2x8	2	
11-5	W060402029	Band 1M	1	
11-6	B048609894	Screw M4x12	1 1	
11-7	B084060874	Washer M4	1	
11-8	B956596009	Spacer	1	
11-9	S150559004	Nut M4	1	
12	B048040294	Screw M6x8	1	
13	B085040974	Washer S6	1	
100	BO20138009	Motor assy CCD-HS	1 1	
101	B048509294	Screw M5x18	3	
102	B082050864	Washer spring 2–5	3	
103	B084050974	Washer S5	3	
106	BXF6899009	Pulley CCD	1	
107	B048609094	Screw M4x10	3	
			3	
108 109	S8A3103011 S8A3103008	Washer spring 4 Washer M4	3	

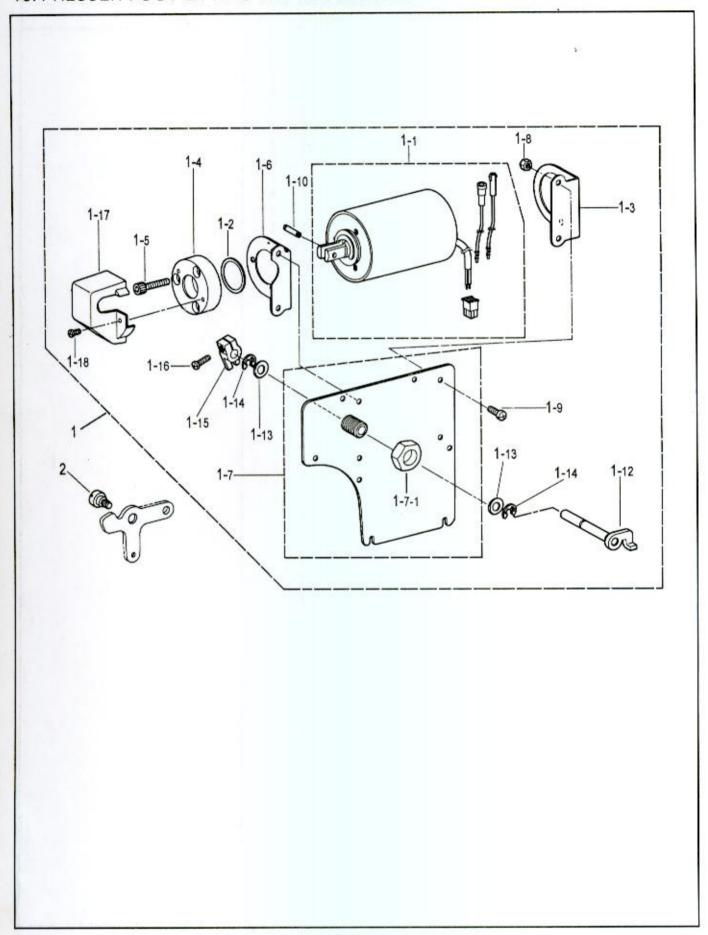
14. QUICK REVERSE SWITCH MECHANISM



14. QUICK REVERSE SWITCH MECHANISM

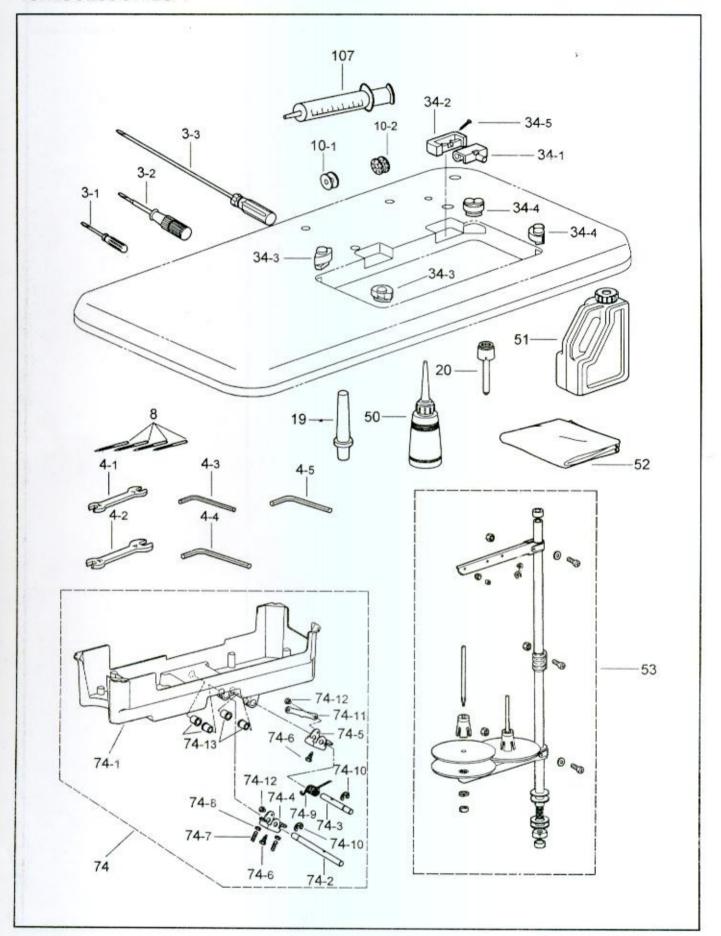
No.	Ref.No.	Description	Qt	Note
	BXF9721009	R-actuator assy	1	
-1	BXF9724009	R-switch support	1	•
-2	BX78107000	Reverse switch bracket	,	
-3		Actuator	,	
	BX78106000			
-4	BX78105000	switch restoration spring	1 1	
-5-1	036830004	R-switch	1	
-5-2	036832001	Down-lead	1	
-5-3	036911002	Terminal pin, male	2	
-6	B60300612	Screw M3x6	1	
	B048500494	Screw M5x6	2	
		TAY ACCURATE TO A SECTION OF THE CONTROL OF THE CON		
10 10 10 10	BXF9722009	Cord holder U2	1	
	BXF9722009	Cord holder U2	2	
N.	B048500294	Screw M5x8	3	
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15. PRESSER FOOT LIFTING SET MECHANISM



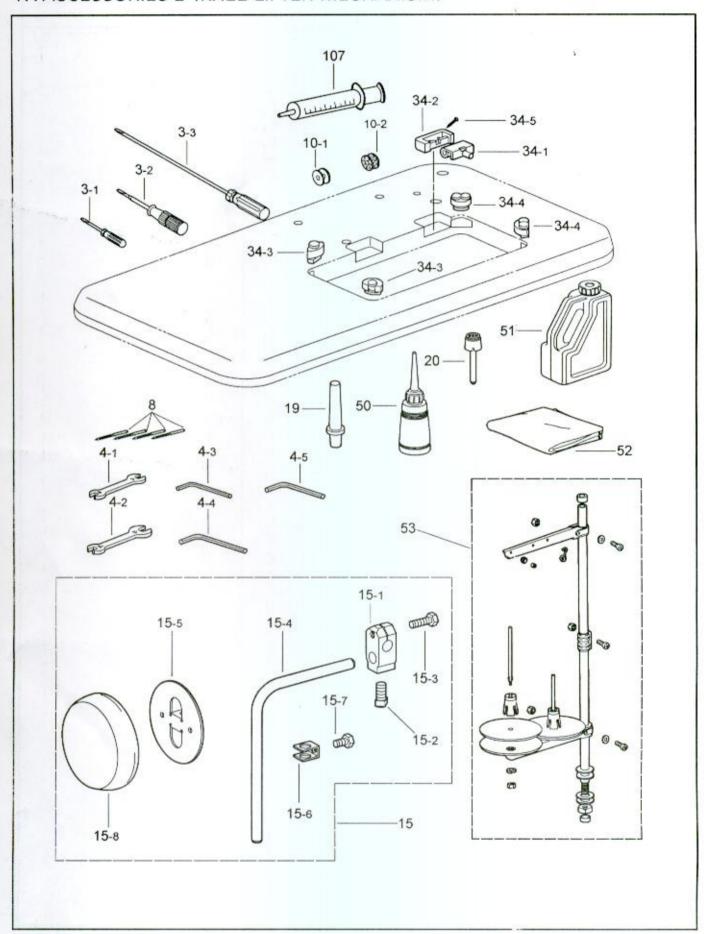
15 PRESSER FOOT LIFTING SET MECHANISM

No.	Ref.No.	Description	Qt	Note
1	BXF9169009	Solenoid P-foot lifter assy	1	
1-1	BXF9168009	P-foot lifter solenoid assy	1	
1-2	BX94485050	Rubber stopper	1	
1-3	BXF9775009	Solenoid base R	1	
1-4	BX94481959	Solenoid stopper	1	
1-5	B092349272	Bolt SM5.95X18	1 1	
1-6	BXF9774009	Solenoid base L	1	
1-7	BXF9150009	Rear plate	1	
1-7-1	BXF8814009	Nut M20	1	
1-8	B089040894	Nut M6	4	
1-9	B093049894	Bolt M6X12	4	
1-10	BX94470059	Pin	1	
1-12	BXF9778009	Knee lifter shaft	1	
1-13	BX80754009	Washer 10	2	
1-14	B062020768	Retaining ring E8	2	
1-15	BXF9772009	Presser foot lifter arm	1	
1-16	B048509894	Screw M5X12	i	
1-17	BX94467001	Cover	1 1	
1-17	B048430498	Screw SM3.57-40X6	2	
2	BXF8945009	Shoulder screw M6	1 1	



No.	Ref.No.	Description	Qt	Note
3-1	W050102051	Screw-driver	1	
3-2	W050102068	Screw-driver	1	
3-3	W050102050	Screw-driver	1	
_3 _1	B900223009	Wrench 8x9	- 1	
-2	W050102052	Wrench 10x12	1	
-3	W050102034	Hexagonal wrench 2	1	
-4	W050102035	Hexagonal wrench 3	1	1
-5	W050102040	Hexagonal wrench 2.5	1	
1	022200016	Needle	4	M
3	048200005	Needle	4	Н
0-1	036400006	Bobbin	3	M
10-2	048400003	Bobbin	3	H
19	022900040	Head rest	1	
20	BX01476080	Knee lifter complying bar	1	
	B967228009	Head hinge	2	
34-1	B967190001	Rubber cushion	2	
34-2	BXF9148009	Head cushion< for right side>	2	
34-3	BXF9148009 BXF9147009	Head cushion< for left side>	2	
34-4		Nail	4	
34-5	B901396000	Oiler assy	1	
50	B996627008	Oil tank assy	1	
51	BX55447009	Head cover	1)) (4)
52		Cotton stand assy 2DR	1	
53	006F00030		1	
74	BXF9789909	Oil pan assy	1	
74-1	BXF9788809	Oil pan Knee lifter shaft L	-1	
74-2	BXF9787009		4	
74-3	BXF9786009	Knee lifter shaft R	4	
74-4	BXF9785009	Knee lifter limit support	1	
74–5	BXF9784009	Knee lifter R	2	
74-6	BX85766009	Bolt M6	2	
74-7	BX85635009	Set screw M6x19	2	
74-8	B089040704	Nut M6	1	Ý
74-9	BX95221009	Twist spring	1	
74-10	B964817009	Retaining ring E10	1	
74-11	BXF9783009	Knee lifter connecting rod	,	
74-12	BXF9931009	Shoulder screw M5	2	
74-13	B961532080	Bush	1	
107		Grease tube	1	
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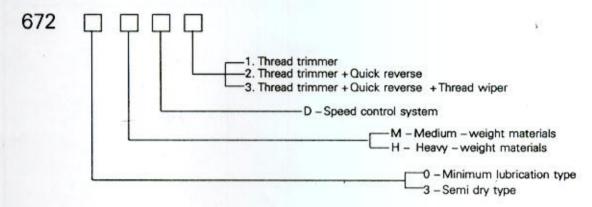
17. ACCESSORIES 2 (KNEE LIFTER MECHANISM)



17. ACCESSORIES 2 (KNEE LIFTER MECHANISM)

No.	Ref.No.	2 (KNEE LIFTER MECH Description	Qt	Note
15 15–1 15–2 15–3 15–4 15–5 15–6 15–7 15–8	BX75289089 B964071089 B900647009 BX75280089 B906491008 W210105003 B996143009 B990023009 W210105006	Knee lifter assy Knee lifter bracket Bolt square SM7.94 Bolt SM5.95x20 Knee lifter bar Knee lifter plate Knee lifter plate stopper Bolt SM5.95–28x8 Knee lifter plate cover		

MACHINE SPECIFICATIONS



Machine's main technial date

		6720MD3/6723MD3	6720HD3	
Max. sewing speed		5, 000rpm	4500rpm	
Start backtacking and continuous backtacking speed		220 – 3000rpm		
End backtacking speed		1, 800rpm		
Max. stitch length		5mm		
Presser foot	Lifting lever	6mm		
height	Knee lifter	16mm		
Feed dog height		0. 8mm	1. 2mm	
Needle		DB ×1 #11 -#16	DP ×5 #18 - #22	

When sewing at speeds of 4,000 rpm or higher, set the stitch length to 4.2mm or less.

- Besides adjusting stitch, please laypeople don't debug or maintaine.
- Parts are subject to changes in design without prior notice.

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