# TYPICAL

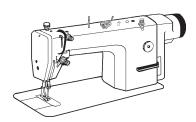


GC6716 SINGLE NEEDLE DIRECT DRIVE NEEDLE FEED LOCKSTITCHER

### WITH THREAD TRIMMER

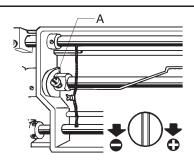
**INSTRUCTION BOOK** 

**%NOTE** 



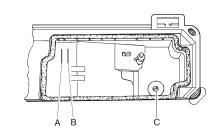
The sewing machine, should always be lubricated and the oil supply replenished before it is used for the first time, and also replenished it is used for the first time. and also after long periods of non -use use only the lubricating oil our company. then lift the presser foot and run the machine at a low speed of 3000 spm to check oil distributing condition through oil check window. When lubricating is normal, keep the machine run in at this speed for 30 minutes, then increase the running speed gradually. After one month run-in operation, the machine can be run at the max speed under normal working

### 2.ROTATING HOOK OIL AMOUNT ADJUSTMENT



Adjust the oil amount of the rotating hook by turning the oil amount adjusting screw (A). Turn the screw (A) clockwise (in the "+" direction ) to increase the oil amount; turn it counter-clockwise (in the "-" direction ) to decrease the oil amount.

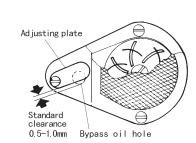
### 1. OIL FILLING



(1)The oil amount in the oil reservoir is controlled through the reference marks A and B shown in .The mark A indicates the max oil amount level, the mark B for the min oil amount level. If the oil amount level is under the mark B replenish the oil reservoir with oil in time reservoir with oil in time.

(2) When filling oil, loosen the oil draining screw (c), drain off the remaining oil in the oil reservoir completely, clean the oil reservoir and tighten the oil draining screw (c), then fill the oil reservoir with fresh oil.

### 3.OIL PUMP ADJUSTMENT



In ordinary operation, adjustment is not required for the oil pump, If oil splashing does not occur in the oil check window when the machine runs at a low speed , close the clearance of the bypass oil

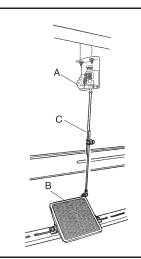
### 4.NEEDLE INSTALLATION

Turning the balance wheel to lift the needle bar to the upper end of its stroke. Loosen the needle clamp screw while keeping the long groove of the needle leftward, fully insert the needle shank up to the bottom of the needle socket, then tighten the needle clamp screw.

Note: please take the drive in our motor cover accessory bag to operate.

### 5.CONNECTION OF THE CLUTCH LEVER WITH THE PEDAL

(1)Install speed gorernor A, link speed gorernor A and pedal B with tie barc, keep tie bar C vertical. (2) The optimum tilt angle of pedal is approximately

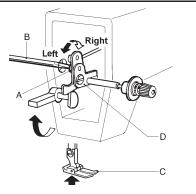


### 6.ADJUST THE OPENING TIME OF THE TENSION DISCS

Within the presser foot lift range, the opening time of the tension discs can be adjusted as follows:

(1)Remove the rubber plug from the back of the arm and Loosen the screw (A) of the knee lift

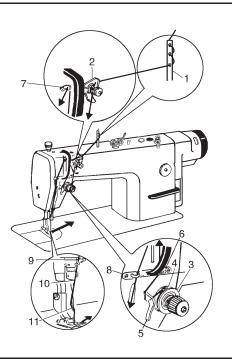
(2) Move the tension releasing cam (D) leftward for earlier opening or rightward for later opening.It will facilitate the adjustment if putting a lifting high block under the presser foot lift.



### 7.THREADING

To thread the needle thread, raise the needle bar to the upper end of its stroke, lead the thread from the spool and perform.

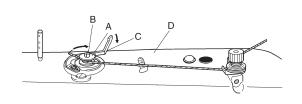
To draw the bobbin thread, hold the end of the needle thread and turn the balance wheel to lower the needle bar and then lift it to its highest position. Pull the ends of needle thread and bobbin thread frontward under presser foot.

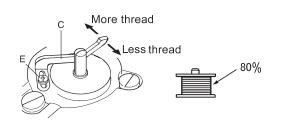


### 8. WINDING THE LOWER THREAD

Turn on the power switch. Place the bobbin (A) onto the bobbin winder shaft(B). Wind the thread several times around the bobbin (A) inthedirection indicated by the arrow. Push the bob bin presser arm (C) toward the bobbin (A). Raise the presser foot with the lifting lever .Depress the treadle. Lower thread winding will then start. Once winding of the lower thread is completed, the bobbin presser arm (C) will return automatically. After the thread has been wound on , remove the bobbin and cut the thread with the knife(D).

- 1.Loosen the screw (E) and mover the bobbin presser(C) to adjust the amount of thread wound onto the bobbin.
- 2. The amount of thread wound onto the bobbin should be a maximum of 80% of the bobbin capacity.





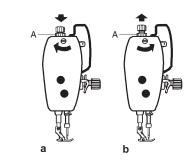
### 9.ADJUST THE PRESSURE OF PRESSER FOOT

Pressure of the presser foot is adjusted in accordance with thickness of materials to be

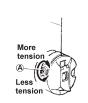
First loosen the lock nut (A), for heavy materials turn the pressure regulating thumb screw as shown in Fig. (a)to increase the pressure , while for light materials, turn the pressure regulating thumb screw as shown in Fig.(b) to decrease the pressure, the tighten the lock nut (A).

The pressure of the presser foot is recommended to be less as along as normal feeding is ensured.

Normal stitch form



### 10.THREAD TENSION ADJUSTMENT

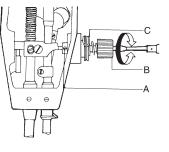


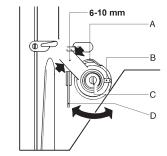
→ Needle thread → Bobbin thread

Thread tension should be determined in accordance with the stitch obtained by adjusting the tension of the bobbin thread and needle thaead.

The tension of the bobbin thread:to be adjusted by turning the tension spring regulating screw of the bobbin case, After adjusting, insert the bobbin into the bobbin case and hold the end of the thread from the bobbin case to hang the bobbin case, If the bobbin case falls slowly and evenly, proper tension of the bobbin thread is

The tension of needle thread: to be adjusted by turning the thumb nut.



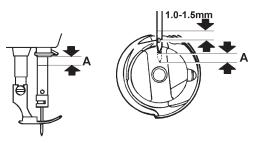


The stroke of the thread take-up spring runs from 6mm to 10mm, when sewing very thin fabrics, reduce the thread take-up spring tension and increase the thread take-up spring stroke, where as increase the thread take-up spring tension and reduce the thread take-up stroke when sewing very thick

Adjusting the thread take-up spring tension: First loosen the set screw (A), Turn the tension stud (B) counter-clockwise to decrease the tension of the thread take-up spring (c) to zero. Then turn the tension stud (B) clockwise till the spring (c) comes to the notch of the tension regulating bushing, and again turn the tension stud (B) halfway back (counter clockwise ), After the adjustment, tighten the set screw (A)

Adjusting the thread take-up spring stroke: loosen the set screw (B) turn the stud (C) clockwise to increase the stroke or turn stud (C) counter-clockwise to decrease the stroke after the adjustment. tighten

### 11.ADJUST THE SYNCHRONIZATION OF THE NEEDLE WITH ROTATING HOOK

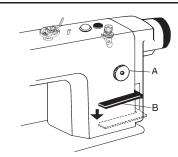


When lifting the needle bar from its lowest posi-tion of the stroke to the distance A, the hook point D of the bobbin should align with the center' line of the needle and be 1.0-1.5 mm above upper end of the needle eye

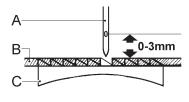
The clearance between the bottom of the needle notch and the hook tip should be 0.05 mm

### 12.ADJUSTMENT OF STITCH LENGTH AND REVERSE FEEDING

The stitch length can be adjusted by turning the dial knob (A). The figures on the face (B) of the dial show the stitch length in mm. The reverse feed level must be depressed by another hand while adjusting the stitch length (B). The reverse feeding start when the reverse feed lever (B) is depressed, the machine will feed forward again if the reverse feed level is

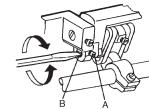


### 13.ADJUSTING THE POSITION OF FEED DOG AND NEEDLE



To adjust the feed dog position (C), first should release the two set screw (F) and turn around the balance wheel by hand. When the needle (A) point reaches the surface of the throat plate (B), the top of the feed dog (C) should be flush with the throat plate surface.

### 14.STITCH LENGTH ERROR ADJUSTMENT



leftward to widen the stitch length as forward sewing,

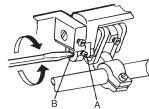
# Loosen eccentric wheel screw, turn eccentric

wheel and balance wheel separately to adjust the position of needle and feed doy .Then tighten the

Feed dog

### 15.FEED DOG HORIL ONTALLTY ADJUSTMENT

Mark position on



Loosen screw (A) to adjust the stitch length adjusting cam (B). Turn it rightward to narrow the stitch length as forward sewing, and widen it as reverse sewing; turn it and narrow it as reverse sewing

Heighten the front of feed dog to prevent fabric from wrinkling lower the front of feed dog to prevent fabric from defection, breaking of hook

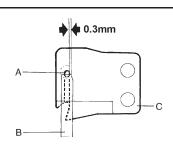
### 16.POSITION OF THE FIXED KNIFE AND LEFT KNIFE POINT

(1)The standard position is shown in the figure.

(2)If the size is larger than the standard, the knife will cut the 3 threads in the meantime or draw the thread out of the needle eye; if smaller, will cause cutting damage, so make sure to avoid that.

(3)As things mentioned above occur, adjustment is done by setting the fixed knife support or the fixed knife

A-the blade B-Fixed knife C-the knife (left)



### 17.POSITION OF THE CUTTER DRIVING SHAFT

(1)The Standard position is shown in the figure

(2) When assemble it, Cutter Driving Shaft (G) should be first put in Cutter Driving Crank (A).

(3)Set Thread Cutting Cam Crank 1(D) on the cutter driving shaft with reference to the standard position. (4)Set Stopper (F), make sure that there is no clearance between parts around the cutter driving shaft, and rotate

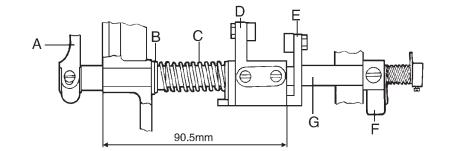
A-knife driring crank

B-spring end cover

C-spring

D-thread cuttiy cam crank 1 E-thread cutting cam crank 2

F-stopper G-knife driring shaft



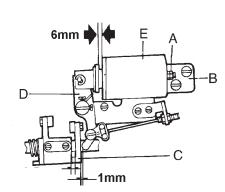


### 18.THE ELECTROMAGNET CORE STROKE

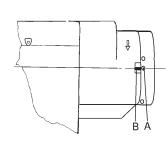
(1)The standard stroke of the electromagnet core is mm.

(2)The stroke can be adjusted with Positioning screw

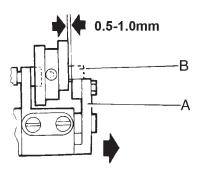
- B-thread cutting electromagnet holder
- C-thread cutting cam crank 2
- D-driving bar
- E-thread cutting electromagnet



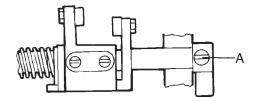
### 19.INSTALLING THREAD CUTTING CAM



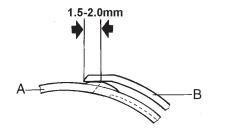
(1)Align No.2 Positioning Mark (A) on the balance wheel with Positioning Mark (B) on the machine arm.



(3)Stop the operation of the electromagnet, reset Cam Driving Crank (A), Cam (B) is seperated from the en-gagement with the roller, the standard clearance is 0.5–1.0mm.

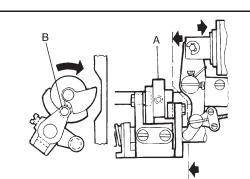


### 20.ADJUSTING KNIFE CUTTING ENGAGEMENT

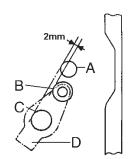


①When the electromagnet works, turn the machine, the movable knife (A) follows the motion of the thread cutting cam. The maximum degree of cutting engagement is 1.5–2.0mm (B-the fixed knife)

②Adujst the cutter driving crank if necessary.



(2)As the thread cutting electromagnet works, Thread Cutting Cam (A) run in normal rotating direction. Fix the cam when Cam (A) is engaged with Roller (B).



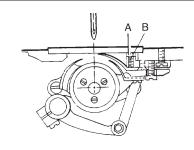
NOTE:

1.The figure shows the standard position of Cam Driving Crank (D) before operation.

A-hook shaft B-roller C-cutter driving shaft

2.It may change the positions mentioned above to remove the stopper, then adjust with Screw (A), and readjust the above .

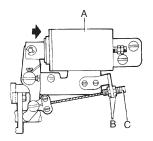
### 21.ADJUSTING CUTTING PRESSURE



(1)When cutting thick thread, increase the cutting force.

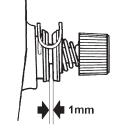
(2)For adjusting cutting force, loosen Set Nut (A), and adjust Screw (B).

### 22.ADJUSTING NEEDLE THREAD TENSION



There should be a clearance of 1mm between the two discs while the thread cutting electromagnet (A) is work-ing

For adjustment, loosen Nut (B), and move soft thread (C).

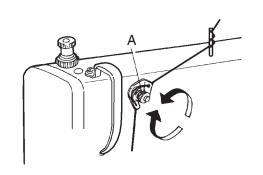


Note: If the clearance is too small, the thread end left after cutting is too short and may easily go away from the needle eye; otherwise the tension is poor and affect the needle thread tension.

### 23.THREAD END REMAINS ADJUSTMENT

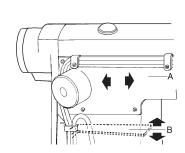
To get the needle thread end remains properly, adjust lut (A).

Turn rightwrd: get shorter
Turn leftward: get longer



### 24.INSTALLING REVERSE STITCH ELECTROMAGNET

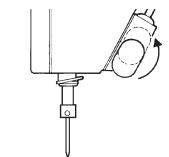
Adjust the position of Electromagnet (A) properly to guarantee the flexiable connection of the magnet with the link lever and the convenient operation of Reverse Stitch Bar (B) ,then set with a screw.



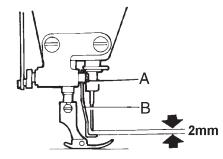
### 25.REVERSE STITCH SWITCH

The figure shows the normal state.It can perform reverse sewing to switch on.If move the switch to the dotted line shown in the figure,and switch on,the reveres sewing can not be performed.

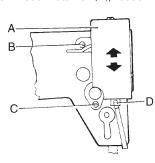
For the double switch model: push button A, it can perform back tacking sewing push button B it can perform reverse sewing.



### 26.THREAD RETAINING DEVICE



- 1.Thread Retainer Height
- (1) Standard height: 2 mm from the thread retainer as the needle in its highest position.
- (2) To adjust Thread Retainer (B), loosen Screw (A).

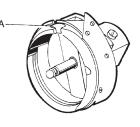


## 2. Thread Retainer Working position.

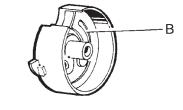
(1) When the magnet move into the electromagnet completely, the standard distance between the thread retainer and the center of the needle should be 0–2 mm. (2)To adjust its position, loosen Screw (C), Screw (B) and adjust the position of Electro–magnet Asm(A). D–magnet

0-2mm

### 27.HOOK. BOBBIN CASE AND BOBBIN



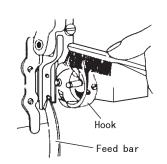
1. There is a thread groove (A) in the special hook for thread cutting sewing machine.

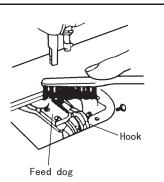


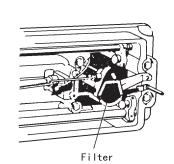
2. The bobbin case used in the machine should be with a spring (B) in its bottom, which prevents the bobbin from running without loading.

### 28.PERIODICAL CLEANING

- 1)Cleaning feed dog
- Remove the throat plate and clear off the dust and lint between feed dog tooth slots.
- 2)Cleaning rotating hook
- Swing out the machine head and clean the hook. Wipe the bobbin case with soft cloth.
- 3)Cleaning oil pump screen
- Swing out the machine head and clear off the dust and dirt on oil pump screen.

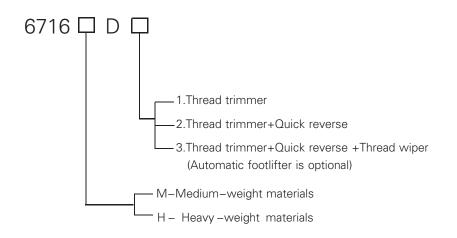






### 6716 series machine's main technical date

Item	М	н
Application	Commom materials	Thick materials
Sewing speed	4500 spm	3500 spm
Max. Stitch length	4mm	5mm
knee controlled Presser foot lifting height	6	-11mm
Rotating shuttle	Standard automatic oiling	Thick materials automatic oiling
Needle	DPx5 # 11-#14	DPx5 #18-#22



### XI'AN TYPICAL INDUSTRIES CO.,LTD.

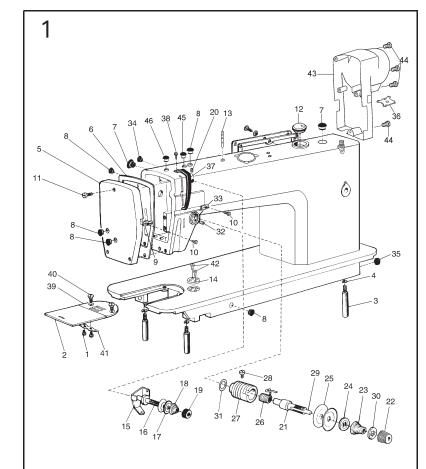
Add: No.335 Taibai South Road, Xi'an,P.R.China-710068 Tel:+86-29-88279091 88279150 Fax :+86-29-88249715 88245215 E-mail:typical@chinatypical.com Http:www.chinatypical.com

# TYPICAL

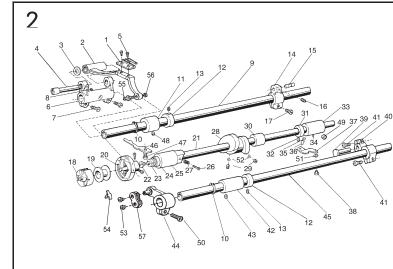


# GC6716 SINGLE NEEDLE DIRECT DRIVE NEEDLE FEED LOCKSTITCHER WITH THREAD TRIMMER

PARTS CATALOGUE

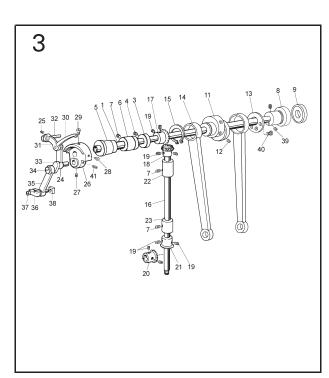


No.   Ref.No.   Description     Ott   M   H	1.AF	RM AND BED	) MECHANISM		
1	No.	Ref.No.	Description		
2 022170001 Slide plate	1	022170002	Corolar		-
3 048100005					
Spring washer   3   3   3   3   3   3   3   027100002W   Face plate gasket   1   1   1   1   1   1   1   1   1			· ·		
5			l -		
6       027100003       Face plate gasket       1       1         7       022130003−V       Rubber plug(Φ19)       2       2         8       022130005       Rubber plug(Φ11.8)       6       6         9       022130006       Screw       2       2         10       022130006       Screw       1       1         11       022180001−V       Oil check window       1       1         12       022180009       Thread guide pole       1       1         14       057100008       Ruler plate       1       1         15       036240001       Pretension thread guide       1       1         16       036240002       Thread tersion stud       1       1         17       022150003       Thread tersion disc       2       2         18       036240003       Tension spring for pretension       1       1         19       036240004       Thread tersion stud       1       1         21       022160001       Thread tersion stud       1       1         21       022160001       Thread tersion spring       1         24       022160004       Thread tersion releasing disc       1					
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9 022130005 Thread guide on face plate 1 1 1 10 022130006 Screw 2 2 2 11 022100006 Screw 1 1 1 12 022180001—V Oil check window 1 1 1 13 108200099 Thread guide pole 1 1 1 14 057100008 Ruler plate 1 1 1 15 036240001 Pretension thread guide 1 1 1 16 036240002 Thread tension stud 1 1 1 17 022150003 Thread tension stud 1 1 1 18 036240003 Tension spring for pretension 1 1 1 19 036240004 Thread tension ut 1 1 1 10 022160001 Thread tension stud 1 1 1 11 1 1 12 1 1 1 13 1 1 1 14 1 1 1 15 036240002 Thread tension stud 1 1 1 1 16 036240003 Tension spring for pretension 1 1 1 17 022150003 Thread tension stud 1 1 1 1 18 1 1 1 1 19 036240004 Thread tension stud 1 1 1 1 10 1 1 1 1 11 1 1 1 1 1 12 1 1 1 1 1 1 12 1 1 1 1			I		
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12 022180001−−V					
13       108200009       Thread guide pole       1       1         14       057100008       Ruler plate       1       1         15       036240001       Pretension thread guide       1       1         16       036240002       Thread tension stud       1       1         17       022150003       Thread tension disc       2       2         18       036240004       Thread tension spring for pretension       1       1         19       036240004       Thread tension nut       1       1         20       124100006       Set screw       1       1         21       022160001       Thread tension stud       1       1         22       124130001W       Thread tension spring       1       1         23       124130002d       Thread tension spring       1       1         24       022160004       Thread tension spring       1       1         25       022160005       Thread tension releasing disc       1       1         26       022160006       Thread tension regulator bushing       1       1         27       022160007       Thread tension regulator bushing       1       1         2					
14       057100008       Ruler plate       1       1         15       036240001       Pretension thread guide       1       1         16       036240002       Thread tension stud       1       1         17       022150003       Thread tension disc       2       2         18       036240004       Thread tension spring for pretension       1       1         19       036240004       Thread tension nut       1       1         20       124100006       Set screw       1       1         21       022160001       Thread tension stud       1       1         22       124130001W       Thread tension stud       1       1         22       124130001W       Thread tension spring       1       1         23       124130002d       Thread tension spring       1       1         24       022160004       Thread tension spring       1       1         25       022160005       Thread tension releasing disc       1       1         26       022160006       Thread tension regulator bushing       1       1         27       022160007       Thread tension rleasing pin       1       1         2					
15         036240001         Pretension thread guide         1         1           16         036240002         Thread tension stud         1         1           17         022150003         Thread tension stud         1         1           18         036240003         Tension spring for pretension         1         1           19         036240004         Thread tension nut         1         1           20         124100006         Set screw         1         1           21         022160001         Thread tension stud         1         1           22         124130001W         Thread tension stud         1         1           23         124130002d         Thread tension spring         1         1           048110001d         Thread tension spring         1         1           24         022160004         Thread tension releasing disc         1         1           25         022160005         Thread take-up spring         1         1           26         022160006         Thread take-up spring         1         1           27         022160007         Thread tension releasing pin         1         1           28         022160008			l - '		
16         036240002         Thread tension stud         1         1           17         022150003         Thread tension disc         2         2           18         036240003         Tension spring for pretension         1         1           19         036240004         Thread tension nut         1         1           20         124100006         Set screw         1         1           21         022160001         Thread tension stud         1         1           22         124130001W         Thread tension stud         1         1           23         124130002d         Thread tension spring         1         1           048110001d         Thread tension spring         1         1           24         022160004         Thread tension releasing disc         1         1           25         022160005         Thread take-up spring         1         1           26         022160006         Thread take-up spring         1         1           27         022160007         Thread tension regulator bushing         1         1           28         022160008         Screw         1         1           30         022160001         <					
17         022150003         Thread tension disc         2         2           18         036240003         Tension spring for pretension         1         1           19         036240004         Thread tension nut         1         1           20         124100006         Set screw         1         1           21         022160001         Thread tension stud         1         1           22         124130001W         Thread tension stud         1         1           23         124130002d         Thread tension spring         1         1           24         022160004         Thread tension spring         1         1           24         022160005         Thread tension releasing disc         1         1           25         022160006         Thread tension regulator bushing         1         1           27         022160007         Thread tension regulator bushing         1         1           28         022160008         Screw         1         1           29         238100008         Screw         1         1           30         022160010         Stop disc         1         1           31         022160011					
18       036240003       Tension spring for pretension       1       1         19       036240004       Thread tension nut       1       1         20       124100006       Set screw       1       1         21       022160001       Thread tension stud       1       1         22       124130001—-W       Thread tension nut       1       1         23       124130002—-d       Thread tension spring       1       1         24       022160004       Thread tension spring       1       1         25       022160005       Thread tension releasing disc       1       1         26       022160006       Thread tension disc       2       2       2         26       022160007       Thread tension regulator bushing       1       1       1         27       022160008       Screw       1       1       1         29       238100004       Thread tension rleasing pin       1       1       1         30       022160010       Stcp disc       1       1       1         31       022160011       O-type ring       1       1       1         32       022100013       Set screw       1 </td <td></td> <td></td> <td></td> <td></td> <td></td>					
19  036240004					
20       124100006       Set screw       1       1         21       022160001       Thread tension stud       1       1         22       124130001—-W       Thread tension nut       1       1         23       124130002—-d       Thread tension spring       1       1         24       022160004       Thread tension spring       1       1         25       022160005       Thread tension disc       2       2       2         26       022160006       Thread tension disc       2       2       2         26       022160006       Thread tension disc       2       2       2         27       022160007       Thread tension regulator bushing       1       1         28       022160008       Screw       1       1         29       238100004       Thread tension regulator bushing       1       1         30       022160010       Stop disc       1       1         31       022160010       Stop disc       1       1         31       022160011       O-type ring       1       1         32       022100013       Set screw       1       1         34       0221000					1
21       022160001       Thread tension stud       1       1         22       124130001W       Thread tension nut       1       1         23       124130002d       Thread tension spring       1       1         24       022160004       Thread tension releasing disc       1       1         25       022160005       Thread tension releasing disc       1       1         26       022160006       Thread tension releasing disc       1       1         27       022160006       Thread take-up spring       1       1         27       022160007       Thread take-up spring       1       1         28       022160008       Screw       1       1         29       238100004       Thread tension regulator bushing       1       1         30       022160010       Screw       1       1         31       022160010       Stop disc       1       1         31       022160011       O-type ring       1       1         32       022100013       Set screw       1       1         33       022100014       Thread guide       1       1         34       022100015V       Rubber plug(					1
22       124130001W       Thread tension nut       1       1         23       124130002d       Thread tension spring       1         048110001d       Thread tension spring       1         24       022160004       Thread tension releasing disc       1         25       022160005       Thread tension releasing disc       2         26       022160006       Thread take-up spring       1         048110002       Thread take-up spring       1         27       022160007       Thread tension regulator bushing       1         28       022160008       Screw       1         29       238100004       Thread tension rleasing pin       1         30       022160010       Stop disc       1         31       022160011       O-type ring       1         32       022100013       Set screw       1         33       022100015V       Rubber plug(Φ8.8)       5         35       022100016V       Rubber plug(Φ27)       1         36       236170002       All purpose screwdriver       1         37       BXF9768001       Thread take-up lever guard       1         38       022200004       Screw       1 </td <td></td> <td></td> <td>Set screw</td> <td>1</td> <td>1</td>			Set screw	1	1
23       124130002—d       Thread tension spring       1         24       022160004       Thread tension releasing disc       1         25       022160005       Thread tension disc       2         26       022160006       Thread take—up spring       1         048110002       Thread take—up spring       1         27       022160007       Thread tension regulator bushing       1         28       022160008       Screw       1         29       238100004       Thread tension rleasing pin       1         30       022160010       Stop disc       1         31       022160011       O-type ring       1         31       022100013       Set screw       1         33       022100014       Thread guide       1         34       022100015—V       Rubber plug(Φ8.8)       5         35       022100016—V       Rubber plug(Φ27)       1       1         36       236170002       All purpose screwdriver       1       1         37       BXF9768001       Thread take—up lever guard       1       1         39       027100004       Needle plate       1       1         40       022100020			Thread tension stud	1	1
048110001—d       Thread tension spring       1         24       022160004       Thread tension releasing disc       1         25       022160005       Thread tension disc       2         26       022160006       Thread take—up spring       1         048110002       Thread take—up spring       1         27       022160007       Thread tension regulator bushing       1         28       022160008       Screw       1         29       238100004       Thread tension rleasing pin       1         30       022160010       Stop disc       1         31       022160011       O-type ring       1         31       022100013       Set screw       1         33       022100014       Thread guide       1         34       022100015—V       Rubber plug(Φ8.8)       5         35       022100016—V       Rubber plug(Φ27)       1       1         36       236170002       All purpose screwdriver       1       1         37       BXF9768001       Thread take—up lever guard       1       1         39       027100004       Needle plate       1       1         40       022100020       Screw </td <td></td> <td></td> <td>Thread tension nut</td> <td>1</td> <td>1</td>			Thread tension nut	1	1
24       022160004       Thread tension releasing disc       1       1         25       022160005       Thread tension disc       2       2         26       022160006       Thread take-up spring       1         048110002       Thread take-up spring       1         27       022160007       Thread tension regulator bushing       1         28       022160008       Screw       1         29       238100004       Thread tension rleasing pin       1         30       022160010       Stop disc       1         31       022160011       O-type ring       1         31       022160011       O-type ring       1         32       022100013       Set screw       1         33       022100014       Thread guide       1         34       022100015V       Rubber plug(Φ8.8)       5         35       022100016V       Rubber plug(Φ27)       1       1         36       236170002       All purpose screwdriver       1       1         37       BXF9768001       Thread take-up lever guard       1       1         38       022200004       Screw       1       1         39       <	23			1	
25       022160005       Thread tension disc       2       2         26       022160006       Thread take-up spring       1         048110002       Thread take-up spring       1         27       022160007       Thread tension regulator bushing       1         28       022160008       Screw       1         29       238100004       Thread tension rleasing pin       1         30       022160010       Stop disc       1         31       022160011       O-type ring       1         31       022100013       Set screw       1         32       022100014       Thread guide       1         34       022100015V       Rubber plug(Φ8.8)       5         35       022100016V       Rubber plug(Φ27)       1         36       236170002       All purpose screwdriver       1         37       BXF9768001       Thread take-up lever guard       1         38       022200004       Screw       1         39       027100004       Needle plate       1         40       022170002       Slide plate spring       1       1         40       022170002       Slide plate spring       1 <td< td=""><td></td><td></td><td>Thread tension spring</td><td></td><td>1</td></td<>			Thread tension spring		1
26       022160006       Thread take-up spring       1         048110002       Thread take-up spring       1         27       022160007       Thread tension regulator bushing       1         28       022160008       Screw       1       1         29       238100004       Thread tension rleasing pin       1       1         30       022160010       Stop disc       1       1         31       022160011       O-type ring       1       1         32       022100013       Set screw       1       1         33       022100014       Thread guide       1       1         34       022100015V       Rubber plug(Φ8.8)       5       5         35       022100016V       Rubber plug(Φ27)       1       1         36       236170002       All purpose screwdriver       1       1         37       BXF9768001       Thread take-up lever guard       1       1         38       022200004       Screw       1       1         39       027100004       Needle plate       1       1         40       022100020       Screw       2       2         41       022170002		022160004	Thread tension releasing disc	1	1
048110002       Thread take-up spring       1         27       022160007       Thread tension regulator bushing       1         28       022160008       Screw       1         29       238100004       Thread tension rleasing pin       1         30       022160010       Stop disc       1         31       022160011       O-type ring       1         32       022100013       Set screw       1         33       022100014       Thread guide       1         34       022100015V       Rubber plug(Φ8.8)       5         35       022100016V       Rubber plug(Φ27)       1         36       236170002       All purpose screwdriver       1         37       BXF9768001       Thread take-up lever guard       1         38       022200004       Screw       1         39       027100004       Needle plate       1         40       022100020       Screw       2         41       022170002       Slide plate spring       1       1         42       124100004       Screw       2       2         43       238100003       Motor cover       1       1	25	022160005	Thread tension disc	2	2
27       022160007       Thread tension regulator bushing       1       1         28       022160008       Screw       1       1         29       238100004       Thread tension rleasing pin       1       1         30       022160010       Stop disc       1       1         31       022160011       O-type ring       1       1         32       022100013       Set screw       1       1         33       022100014       Thread guide       1       1         34       022100015—V       Rubber plug(Φ8.8)       5       5         35       022100016—V       Rubber plug(Φ27)       1       1         36       236170002       All purpose screwdriver       1       1         37       BXF9768001       Thread take-up lever guard       1       1         38       022200004       Screw       1       1         39       027100004       Needle plate       1       1         40       022100020       Screw       2       2         41       022170002       Slide plate spring       1       1         42       124100004       Screw       2       2	26			1	
28       022160008       Screw       1       1         29       238100004       Thread tension rleasing pin       1       1         30       022160010       Stop disc       1       1         31       022160011       O-type ring       1       1         32       022100013       Set screw       1       1         33       022100014       Thread guide       1       1         34       022100015V       Rubber plug(Φ8.8)       5       5         35       022100016V       Rubber plug(Φ27)       1       1         36       236170002       All purpose screwdriver       1       1         37       BXF9768001       Thread take-up lever guard       1       1         38       022200004       Screw       1       1         39       027100004       Needle plate       1       1         40       022100020       Screw       2       2         41       022170002       Slide plate spring       1       1         42       124100004       Screw       2       2         43       238100003       Motor cover       1       1         44 </td <td></td> <td>048110002</td> <td>Thread take-up spring</td> <td></td> <td>1</td>		048110002	Thread take-up spring		1
29       238100004       Thread tension rleasing pin       1       1         30       022160010       Stop disc       1       1         31       022160011       O-type ring       1       1         32       022100013       Set screw       1       1         33       022100014       Thread guide       1       1         34       022100015V       Rubber plug(Φ8.8)       5       5         35       022100016V       Rubber plug(Φ27)       1       1         36       236170002       All purpose screwdriver       1       1         37       BXF9768001       Thread take-up lever guard       1       1         38       022200004       Screw       1       1         39       027100004       Needle plate       1       1         40       022100020       Screw       2       2         41       022170002       Slide plate spring       1       1         42       124100004       Screw       2       2         43       238100003       Motor cover       1       1         44       S150237005       Screw M5x25       4       4 <td>27</td> <td>022160007</td> <td>Thread tension regulator bushing</td> <td>1</td> <td>1</td>	27	022160007	Thread tension regulator bushing	1	1
30       022160010       Stop disc       1       1         31       022160011       O-type ring       1       1         32       022100013       Set screw       1       1         33       022100014       Thread guide       1       1         34       022100015V       Rubber plug(Φ8.8)       5       5         35       022100016V       Rubber plug(Φ27)       1       1         36       236170002       All purpose screwdriver       1       1         37       BXF9768001       Thread take-up lever guard       1       1         38       022200004       Screw       1       1         39       027100004       Needle plate       1       1         40       022100020       Screw       2       2         41       022170002       Slide plate spring       1       1         42       124100004       Screw       2       2         43       238100003       Motor cover       1       1         44       S150237005       Screw M5x25       4       4	28	022160008	Screw	1	1
31       022160011       O-type ring       1       1         32       022100013       Set screw       1       1         33       022100014       Thread guide       1       1         34       022100015V       Rubber plug(Φ8.8)       5       5         35       022100016V       Rubber plug(Φ27)       1       1         36       236170002       All purpose screwdriver       1       1         37       BXF9768001       Thread take-up lever guard       1       1         38       022200004       Screw       1       1         39       027100004       Needle plate       1       1         40       022100020       Screw       2       2         41       022170002       Slide plate spring       1       1         42       124100004       Screw       2       2         43       238100003       Motor cover       1       1         44       S150237005       Screw M5x25       4       4	29	238100004	Thread tension rleasing pin	1	1
32 022100013 Set screw 1 1 1 1 3 3 022100014 Thread guide 1 1 1 1 3 022100015—V Rubber plug(Φ8.8) 5 5 5 3 022100016—V Rubber plug(Φ27) 1 1 1 1 3 0 236170002 All purpose screwdriver 1 1 1 3 022200004 Screw 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	30	022160010	l '	1	1
33 022100014 Thread guide 1 1 1 34 022100015V Rubber plug(Φ8.8) 5 5 35 022100016V Rubber plug(Φ27) 1 1 36 236170002 All purpose screwdriver 1 1 37 BXF9768001 Thread take-up lever guard 1 1 38 022200004 Screw 1 1 1 39 027100004 Needle plate 1 1 027100104 Needle plate 1 1 40 022100020 Screw 2 2 2 41 022170002 Slide plate spring 1 1 42 124100004 Screw 2 2 2 43 238100003 Motor cover 1 1 44 S150237005 Screw M5x25 4	31	022160011	O-type ring	1	1
34 022100015V Rubber plug(Φ8.8) 5 5 35 022100016V Rubber plug(Φ27) 1 1 36 236170002 All purpose screwdriver 1 1 37 BXF9768001 Thread take-up lever guard 1 1 38 022200004 Screw 1 1 1 39 027100004 Needle plate 1 1 027100104 Needle plate 1 1 40 022100020 Screw 2 2 2 41 022170002 Slide plate spring 1 1 42 124100004 Screw 2 2 2 43 238100003 Motor cover 1 1 44 S150237005 Screw M5x25 4	32	022100013	Set screw	1	1
35 022100016V Rubber plug(Φ27) 1 1 1 36 236170002 All purpose screwdriver 1 1 1 37 BXF9768001 Thread take-up lever guard 1 1 1 38 022200004 Screw 1 1 1 1 39 027100004 Needle plate 1 1 027100104 Needle plate 1 1 40 022100020 Screw 2 2 2 2 41 022170002 Slide plate spring 1 1 1 42 124100004 Screw 2 2 2 2 43 238100003 Motor cover 1 1 1 44 S150237005 Screw M5x25 4 4	33		Thread guide	1	1
36       236170002       All purpose screwdriver       1       1         37       BXF9768001       Thread take-up lever guard       1       1         38       022200004       Screw       1       1         39       027100004       Needle plate       1       1         40       022100104       Needle plate       1       1         40       022100020       Screw       2       2         41       022170002       Slide plate spring       1       1         42       124100004       Screw       2       2         43       238100003       Motor cover       1       1         44       S150237005       Screw M5x25       4       4	34	022100015V	Rubber plug(Φ8.8)	5	5
37       BXF9768001       Thread take-up lever guard       1       1         38       022200004       Screw       1       1         39       027100004       Needle plate       1       1         40       027100104       Needle plate       1       1         40       022100020       Screw       2       2         41       022170002       Slide plate spring       1       1         42       124100004       Screw       2       2         43       238100003       Motor cover       1       1         44       S150237005       Screw M5x25       4       4	35	022100016V	Rubber plug(Φ27)	1	1
38       022200004       Screw       1       1         39       027100004       Needle plate       1         027100104       Needle plate       1         40       022100020       Screw       2         41       022170002       Slide plate spring       1       1         42       124100004       Screw       2       2         43       238100003       Motor cover       1       1         44       S150237005       Screw M5x25       4       4	36	236170002	All purpose screwdriver	1	1
39       027100004       Needle plate       1         027100104       Needle plate       1         40       022100020       Screw       2       2         41       022170002       Slide plate spring       1       1         42       124100004       Screw       2       2         43       238100003       Motor cover       1       1         44       S150237005       Screw M5x25       4       4	37	BXF9768001	Thread take-up lever guard	1	1
027100104       Needle plate       1         40       022100020       Screw       2       2         41       022170002       Slide plate spring       1       1         42       124100004       Screw       2       2         43       238100003       Motor cover       1       1         44       S150237005       Screw M5x25       4       4	38	022200004	Screw	1	1
027100104       Needle plate       1         40       022100020       Screw       2       2         41       022170002       Slide plate spring       1       1         42       124100004       Screw       2       2         43       238100003       Motor cover       1       1         44       S150237005       Screw M5x25       4       4	39	027100004	Needle plate	1	
40       022100020       Screw       2       2         41       022170002       Slide plate spring       1       1         42       124100004       Screw       2       2         43       238100003       Motor cover       1       1         44       S150237005       Screw M5x25       4       4		027100104	Needle plate		1
42       124100004       Screw       2       2         43       238100003       Motor cover       1       1         44       S150237005       Screw M5x25       4       4	40		Screw	2	2
42       124100004       Screw       2       2         43       238100003       Motor cover       1       1         44       S150237005       Screw M5x25       4       4		022170002	Slide plate spring		
43       238100003       Motor cover       1       1         44       S150237005       Screw M5x25       4       4				2	2
44 S150237005 Screw M5x25 4 4					
				4	4
45  UZZ1UUU1/V  KUDDEr pluq(Ψ5./)	45	022100017V	Rubber plug(Φ5.7)	1	1



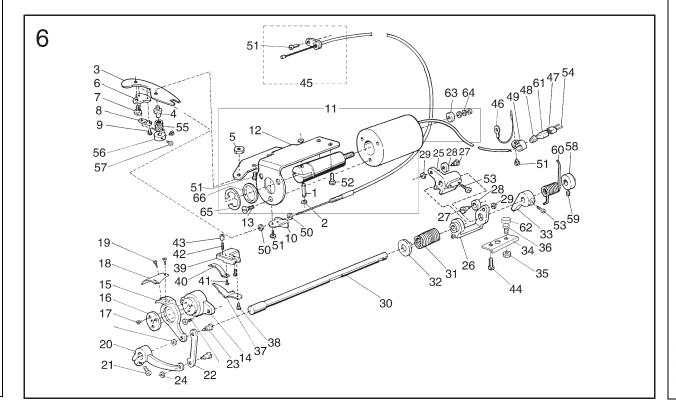
### 2.FEEDING AND FEED LIFTING AND ROTATING HOOK MECHANISM

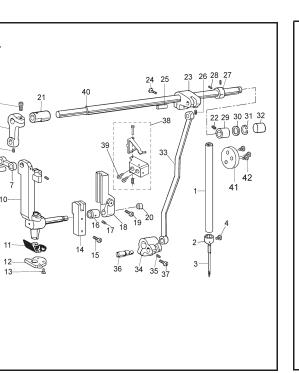
No.         Ref.No.         Description         M         F           1         027600002         Feed dog         1         1           2         027601000         Feed bar         1         1         1           3         022610006         Washer         1         1         1         1           4         036410002         Shaft for feed bar         1         1         1         1           5         022610004         Screw         2         2         2         2           6         022611000         Feed rock shaft crank         1         1         1         1           7         022612000         Screw         2         2         2         2         2           8         022612001         Screw         1	
027600101         Feed dog         1           2         027601000         Feed bar         1           3         022610006         Washer         1         1           4         036410002         Shaft for feed bar         1         1           5         022610004         Screw         2         2           6         022611000         Feed rock shaft crank         1         1           7         022612000         Screw         2         2           8         022612001         Screw         1         1           9         124600002         Feed rock shaft         1         1           10         S150617006         C-type stop ring 15         2         2           11         022600004         Bushing for feed rock shaft         1         1           12         022620001         Collar for feed rock shaft         2         2           13         022320002         Screw         4         4           14         036400003         Feed rock shaft crank(right)         1         1           15         036400204         Pin         1         1           16         036550005         Screw	$\overline{+}$
027600101         Feed dog         1           2         027601000         Feed bar         1           3         022610006         Washer         1         1           4         036410002         Shaft for feed bar         1         1           5         022610004         Screw         2         2           6         022611000         Feed rock shaft crank         1         1           7         022612000         Screw         2         2           8         022612001         Screw         1         1           9         124600002         Feed rock shaft         1         1           10         S150617006         C-type stop ring 15         2         2           11         022600004         Bushing for feed rock shaft         1         1           12         022620001         Collar for feed rock shaft         2         2           13         022320002         Screw         4         4           14         036400003         Feed rock shaft crank(right)         1         1           15         036400204         Pin         1         1           16         036550005         Screw	
3       022610006       Washer       1       1         4       036410002       Shaft for feed bar       1       1         5       022610004       Screw       2       2         6       022611000       Feed rock shaft crank       1       1         7       022612000       Screw       2       2         8       022612001       Screw       1       1         9       124600002       Feed rock shaft       1       1         10       S150617006       C-type stop ring 15       2       2         11       022600004       Bushing for feed rock shaft       1       1         12       022620001       Collar for feed rock shaft       2       2         13       022320002       Screw       4       4         14       036400003       Feed rock shaft crank(right)       1       1         15       036400204       Pin       1       1         16       036550005       Screw       1       1         17       022640003       Screw       1       1         18       027A00009       Bobbin case complete       1       1         19 <t< td=""><td>1</td></t<>	1
4       036410002       Shaft for feed bar       1       1         5       022610004       Screw       2       2         6       022611000       Feed rock shaft crank       1       1         7       022612000       Screw       2       2         8       022612001       Screw       1       1         9       124600002       Feed rock shaft       1       1         10       S150617006       C-type stop ring 15       2       2         11       022600004       Bushing for feed rock shaft       1       1         12       022620001       Collar for feed rock shaft       2       2         13       022320002       Screw       4       4         14       036400003       Feed rock shaft crank(right)       1       1         15       036400204       Pin       1       1         16       036550005       Screw       1       1         17       022640003       Screw       1       1         18       027A00009       Bobbin case complete       1       1         19       036400006       Bobbin       1       1	1
5       022610004       Screw       2       2         6       022611000       Feed rock shaft crank       1       1         7       022612000       Screw       2       2         8       022612001       Screw       1       1         9       124600002       Feed rock shaft       1       1         10       S150617006       C-type stop ring 15       2       2         11       022600004       Bushing for feed rock shaft       1       1         12       022620001       Collar for feed rock shaft       2       2         13       022320002       Screw       4       4         14       036400003       Feed rock shaft crank(right)       1       1         15       036400204       Pin       1       1         16       036550005       Screw       1       1         17       022640003       Screw       1       1         18       027A00009       Bobbin case complete       1       1         19       036400006       Bobbin       1       1	1
6       022611000       Feed rock shaft crank       1       1         7       022612000       Screw       2       2         8       022612001       Screw       1       1         9       124600002       Feed rock shaft       1       1         10       S150617006       C-type stop ring 15       2       2         11       022600004       Bushing for feed rock shaft       1       1         12       022620001       Collar for feed rock shaft       2       2         13       022320002       Screw       4       4         14       036400003       Feed rock shaft crank(right)       1       1         15       036400204       Pin       1       1         16       036550005       Screw       1       1         17       022640003       Screw       1       1         18       027A00009       Bobbin case complete       1       1         19       036400006       Bobbin       1       1	1
7       022612000       Screw       2       2         8       022612001       Screw       1       1         9       124600002       Feed rock shaft       1       1         10       S150617006       C-type stop ring 15       2       2         11       022600004       Bushing for feed rock shaft       1       1         12       022620001       Collar for feed rock shaft       2       2         13       022320002       Screw       4       4         14       036400003       Feed rock shaft crank(right)       1       1         15       036400204       Pin       1       1         16       036550005       Screw       1       1         17       022640003       Screw       1       1         18       027A00009       Bobbin case complete       1       1         19       036400006       Bobbin       1       1	2
8       022612001       Screw       1       1         9       124600002       Feed rock shaft       1       1         10       S150617006       C-type stop ring 15       2       2         11       022600004       Bushing for feed rock shaft       1       1         12       022620001       Collar for feed rock shaft       2       2         13       022320002       Screw       4       4         14       036400003       Feed rock shaft crank(right)       1       1         15       036400204       Pin       1       1         16       036550005       Screw       1       1         17       022640003       Screw       1       1         18       027A00009       Bobbin case complete       1       1         19       036400006       Bobbin       1       1	1
9       124600002       Feed rock shaft       1       1         10       S150617006       C-type stop ring 15       2       2         11       022600004       Bushing for feed rock shaft       1       1         12       022620001       Collar for feed rock shaft       2       2         13       022320002       Screw       4       4         14       036400003       Feed rock shaft crank(right)       1       1         15       036400204       Pin       1       1         16       036550005       Screw       1       1         17       022640003       Screw       1       1         18       027A00009       Bobbin case complete       1       1         19       036400006       Bobbin       1       1	2
10       S150617006       C-type stop ring 15       2       2         11       022600004       Bushing for feed rock shaft       1       1         12       022620001       Collar for feed rock shaft       2       2         13       022320002       Screw       4       4         14       036400003       Feed rock shaft crank(right)       1       1         15       036400204       Pin       1       1         16       036550005       Screw       1       1         17       022640003       Screw       1       1         18       027A00009       Bobbin case complete       1       1         19       036400006       Bobbin       1       1	1
11     022600004     Bushing for feed rock shaft     1     1       12     022620001     Collar for feed rock shaft     2     2       13     022320002     Screw     4     4       14     036400003     Feed rock shaft crank(right)     1     1       15     036400204     Pin     1     1       16     036550005     Screw     1     1       17     022640003     Screw     1     1       18     027A00009     Bobbin case complete     1     1       19     036400006     Bobbin     1     1	1
12     022620001     Collar for feed rock shaft     2     2       13     022320002     Screw     4     4       14     036400003     Feed rock shaft crank(right)     1     1       15     036400204     Pin     1     1       16     036550005     Screw     1     1       17     022640003     Screw     1     1       18     027A00009     Bobbin case complete     1     1       19     036400006     Bobbin     1     1	2
13     022320002     Screw     4     4       14     036400003     Feed rock shaft crank(right)     1     1       15     036400204     Pin     1     1       16     036550005     Screw     1     1       17     022640003     Screw     1     1       18     027A00009     Bobbin case complete     1     1       19     036400006     Bobbin     1     1	1
14     036400003     Feed rock shaft crank(right)     1     1       15     036400204     Pin     1     1       16     036550005     Screw     1     1       17     022640003     Screw     1     1       18     027A00009     Bobbin case complete     1     1       19     036400006     Bobbin     1     1	2
15     036400204     Pin     1     1       16     036550005     Screw     1     1       17     022640003     Screw     1     1       18     027A00009     Bobbin case complete     1     1       19     036400006     Bobbin     1     1	4
16     036550005     Screw     1     1       17     022640003     Screw     1     1       18     027A00009     Bobbin case complete     1     1       19     036400006     Bobbin     1     1	1
17     022640003     Screw     1     1       18     027A00009     Bobbin case complete     1     1       19     036400006     Bobbin     1     1	1
18         027A00009         Bobbin case complete         1         1           19         036400006         Bobbin         1         1	1
19 036400006 Bobbin 1 1	1
	1
20 03643 Rotating hook complete 1	1
048400101 Rotating hook complete 1	1
21 036440001 Hook shaft 1 1	
22 022411001 Filter screw 1 1 1	
23 022411002 Filter 1 1	
24 022400109 Oil seal 1 1	
25 022400004 Hook shaft bushing(left) 1 1	
26 022400005 Oil adjusting screw 1 1 1	
27 022400006 Coil spring 1 1	
28 036450001 Thread cutting cam 1 1	
29 B096339088 Screw 2 2	
30 036400012 Hook shaft bushing(middle) 1 1	
31 022420001 Collar for hook shaft 1 1	
32 022200009 Screw 2 2 33 036460001 Hook shaft bushing(right) 1 1	
3. 3 .	
35   036400015   Plunger	
37 022400010 Guide plate 1 1	
38 022820001 Screw 1 1	
39 022640002 Hinge pin 1 1	
40 048600006 Feed lifting rock shaft crank(R) 1 1	
41   022600016   Screw   2   2	
42 022600012 Bushing for feed lifting shaft(L) 1 1	
43 022200002 Screw 1 1	1
44 022640001 Feed lifting rock shaft crank(left) 1 1	1
45   124600003   Feed lifting rock shaft   1   1	1
46 022400013 Hook positioner 1	
048400002 Hook positioner 1	1
47 022400015 Screw 1 1 1	1
48 022200009 Screw 1 1	1
49 022200002 Screw 1 1 1	1
50 022640003 Screw 1 1	1
51 S150601004 Washer 1 1	1
52   165400001   Washer   2   2	2
53 022600010 Screw 2 2	2
54 022660002 Oil wick clamp 1 1	1
55 022610009 Hinge 1 1	1
56 022610008 Nut 1 1	1
57         022660001         Feed stand link         1         1	1



### 3.ARM SHAFT AND VERTICAL SHAFT THREAD TAKE-UP MECHANISM

				<u></u>	1.11		LED MECHANION	С	Σt.
No.	Ref.No.	Description	М	Н	No.	Ref.No.	Description	М	Н
1	257200001	Arm shaft	1	1	1	153200001	Neddle bar	1	1
3	022320001	Collar for arm shart	1	1	2	027A00002	Thread guide for neddle bar	1	1
4	022220003		2	2	3	S150901005	Needle	1	l
5		Arm shaft bushing(left)	1	1		S150901003	Needle		1
6		Arm shaft bushing(middle)	1	1	4	022200017	Screw	1	1
7	022200002	<u> </u>	3	3	5	027200001	Neddle bar pendulum	1	1
8	257200002		1	1	6	022600016	Screw	1	1
9	238200004	1	1	1	7	027200002	Neddle bar pendulum rod	1	1
11	027300001		1	1	8	027200003	Neddle bar pendulum rod pin	2	2
12	022200002		2	2	9	022100011	Screw	1	1
13	036300004		1	1	10	027201000	Neddle bar bracket asm	1	l
14	022343001	'	1	1		027201100	Neddle bar bracket asm		1
15	022342001	Spacer	1	1	11	027200004	oil pad	1	1
16	022350001	I .	1	1	12	027200005	Oil fixed plate	1	1
17	Z01800891		8	8	13	165330001	Screw	3	3
18		Bevel gear for vertical shaft(upper)	1	1	14	027200006	Neddle bar holder guide	1	1
19	022220003		1	1	15	022200019	Screw	1	1
20		Bevel gear for hook shaft	1	1	16	027200007	Bushing	1	1
21		Bevel gear for vertical shaft(lower)	1	1	17	022100011	Screw	1	1
22	022300111	1	1	1	18	027200008	Neddle bar sliding block guide	1	1
23	022300111	0.11	1	1	19 20	022600016 027200009	Screw Needle roller bearings	1 1	1
24	022300112	Needle bar link asm	1		21	027200009	Vibrating shaft bushing (L)	1	1
24			'	1	22	027200011	Screw	1	1
٥٦		Needle bar link asm	1	1	23	027200011	Vibrating shaft crank	1	1
25	022100006		1	ı	24	027200013	Screw	1	1
26		Needle bar crank		1	25	027200014	Pin	1	1
27	022220002		1	1	26	022100011	Screw	1	1
28	022200006		1	1	27	027200015	Collar	1	1
29	022200007		1	1	28	022320002	Screw	2	2
30		Thread take up lever asm	1		29	027200016	Vibrating shaft bushing (R)	1	1
		Thread take up lever asm		1	30	027200017	Washer	1	1
31		Thread take-up rod	1	1	31	S150617010	Retaining ring	1	1
32		Gemel shaft of thread take up lever	1	1	32	027200018	Rubber plug(Φ21.5)	1	1
33		Pick line crank	1	1	33	027200019	Feed link (long)	1	1
		Needle roller bearings	2	2	34	027200020	Feed crank	1	1
34	022210006		1	1	35	022600016	Screw	1	1
35		Needle bar connecting rod assembly	1	1	36	027200021	Eccentric shaft	1	1
36		Needle bar connector	1	1	37	022100011	Screw	1	1
37		Needle bar connector Screw	1	1	38	027A02000	Loose hinge line asm	1	1
38	022200020		1	1	39	022640003	Screw	2	2
39	BX87459009	Screw M6X6	2	2	40	027200012	Pendulum shaft	1	1
40	165330001	Screw	3	3	41	257100002	Pendulum shaft cover	1	1
41	022220003	Screw	1	1	42	S150203002	Screw M4x8	3	3



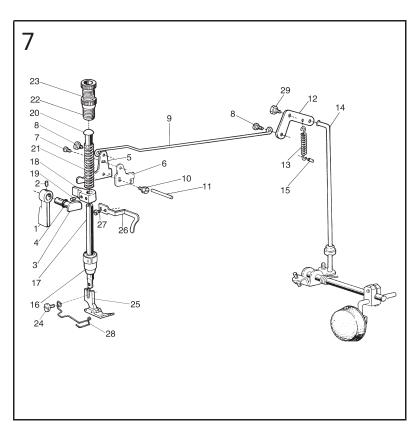


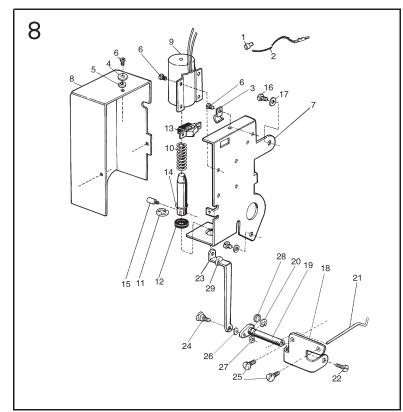
4.NEEDLE FEED MECHANISM

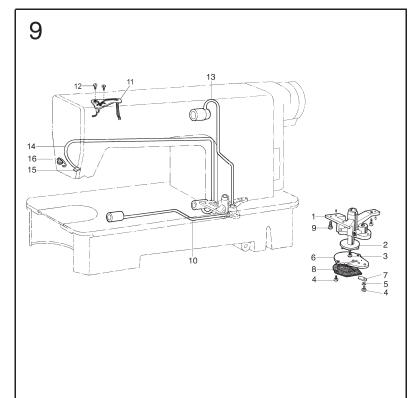
		NGTH REGULATING	С	lt.	26	022540004	Screw	2	
No.	Ref.No.	Description	М	Н	27	022500011	Washer	1	
1	036500001	Set pin	1	1	28	257500001	Screw bar	1	
2	057500001	Feed regulator	1	1	29	124510003	O-type rubber ring	1	
3	036510002	Spring retainer	1	1	30	0 27 50 000 1 – – W	Dial	1	
4	022200019	Screw	2	2		1 24 51 000 1 W	Dial		
5	036510003	Link	1	1	32	238300004	Screw	1	
6	036510004	Pin	1	1	33	238300004	Pin	1	
7	S150620004	Split retaining ring	1	1	34	022500009	Spring	1	
8	036510005	Coil spring	1	1	37	036540004d	Bushing	1	
9	036510006	Spring holder	1	1	38	036550003	Stitch length regulating link	1	
10	022640003	Screw	1	1	39	036400104	Crank link pin	1	
11	022540004	Screw	1	1	40	036558002	Link(long)	2	
12	238300001	Bushing for feed regulator	1	1	41	036550005	Screw	1	
13	022500004	Pin shaft	1	1	42	036558001	Link(short)	2	
14	238300002	Rubber plug	1	1	43	036550006	Pin(short)	1	
16	036520001	Reverse sewing crank	1	1	44	036550007	Screw	1	
17	036520002	Reverse sewing crank shaft	1	1	45	036550008	Screw	1	
18	036520003	Coil spring	1	1	46	036550009	Eccentric shaft	1	
19	022500013	Screw	1	1	47	036550010	Stitch length adjusting crank	1	
20	036500005	Spring holder	1	1	48	036580002	Set pin (left)	1	
21	022820001	Screw	1	1	49	022640003	Screw	1	
22	124500004W	Reverse sewing lever	1	1	50	036580001	Set pin (right)	1	
23	0365310001	Shaft for reverse sewing lever	1	1	51	022640003	Screw	1	
24	S150651007	O-type ring 6.3 × 1.8G	1	1	52	036550002	Feed link	1	
25	022540003	Screw	1	1					

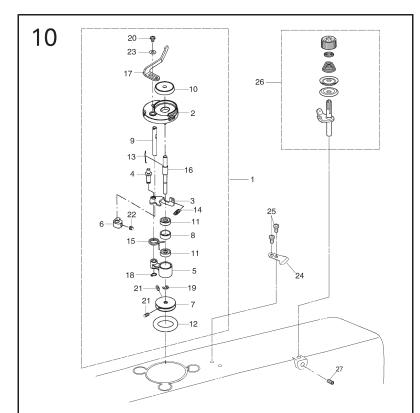
### 6.KNIFE ACTUATING MECHANISM

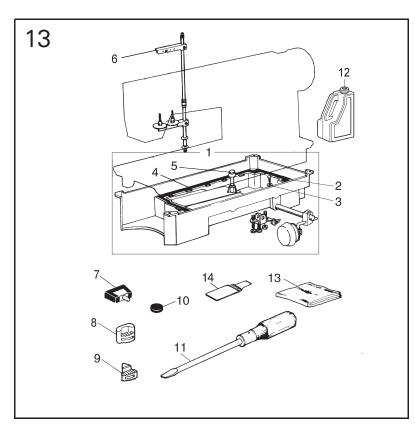
No.   Description   M   H	N.I.	Def No. Description Ot.		34	165720001	Stopper plate	1	1		
1	No.	Ref.No.	Description	М	Н				1	1
2         S15062004         Split retaining ring         2         2         37         036750001         Thread guide         1         1         1         38         022130006         Screw         1         1         1         38         022130006         Screw         1         1         1         4         036710002         Screw         1         1         1         38         022130006         Screw biffe         1         1         1         1         40         027A00011         Fixed knife         1         1         1         42         036750004         Set screw         1         1         1         42         036750004         Adjusting nut         1         1         1         1         43         036750005         Adjusting nut         1         1         1         1         1         1         1         1         1         1         1 <t< td=""><td>1</td><td>036800009</td><td>Pin</td><td>1</td><td>1</td><td></td><td></td><td>Screw</td><td>1</td><td>1</td></t<>	1	036800009	Pin	1	1			Screw	1	1
3         036710001         Flexible driving lever         1         1         1         38         022130006         Screw         1         1         1         38         022130006         Screw         1         1         1         39         036750002         Bracket for fixed blade         1 <td< td=""><td>2</td><td></td><td>Split retaining ring</td><td>2</td><td>2</td><td>37</td><td></td><td>Thread guide</td><td>1</td><td>1</td></td<>	2		Split retaining ring	2	2	37		Thread guide	1	1
5         022910010         Nut         1         1         1         40         027A00011         Fixed knife         1         1         1         6         036710003         Bracket for flexible bracket         1         1         41         036750004         Set screw         1         1         1         42         036750005         Adjusting screw         1         4         036700005         Adjusting nut         1         1         1         1         4         0368710007         Holder for flexible wire         1         1         4         0368710000         Earth wire asm         1         1         1         1         4         036770000         Earth wire asm         1         1         1         1         4         036770000         Earth wire asm         1         1         1         1         4 <t< td=""><td></td><td>036710001</td><td></td><td>1</td><td>l I</td><td>38</td><td>022130006</td><td></td><td>1</td><td>1</td></t<>		036710001		1	l I	38	022130006		1	1
6         036710003         Bracket for flexible bracket         1         1         41         036750004         Set screw         1         1         1         42         036750005         Adjusting screw         1         1         1         1         42         036750006         Adjusting screw         1         9         036710006         Screw         2         2         2         2         44         036800002         Set screw         2         2         2         1         1         1         4         036770000         Set screw         2         2         2         1         1         1         4         036700002         Set screw         2<	4	036710002	Screw	1	1	39	036750002	Bracket for fixed blade	1	1
7         036710004         Screw         1         1         1         42         036750005         Adjusting screw         1	5	022910010	Nut	1	1	40	027A00011	Fixed knife	1	1
8         036710005         Screw         1         1         1         43         036750006         Adjusting nut         1         1         1         9         036710006         Screw         2         2         2         44         036800002         Set screw         2         2         2           10         036710007         Holder for flexible wire         1         1         45         03676         Flexible wire asm         1         1         1         1         2         036710000         Earth wire asm         1         1         1         1         46         036770000         Earth wire asm         1         1         1         1         1         46         036770000         Earth wire asm         1         1         1         1         46         036770000         Earth wire asm         1         1         1         1         1         46         036770000         Earth wire asm         1         1         1         1         1         46         036770000         Earth wire asm         1         1         1         1         1         1         1         1         1         1         1         1         1         48         036700014         W	6	036710003	Bracket for flexible bracket	1	1	41	036750004	Set screw	1	1
9         036710006         Screw         2         2         2         44         036800002         Set screw         2         2         1         45         03676         Flexible wire asm         1         1         1         1         1         1         45         03676         Flexible wire asm         1	7	036710004	Screw	1	1	42	036750005	Adjusting screw	1	1
10	8	036710005		1	1	43	036750006	Adjusting nut	1	1
11         036711000V         Trimmer         1         1         1         46         036770000         Earth wire asm         1         1         1         1         47         108500003         Plug         1	9	036710006	Screw	2	2	44	036800002	Set screw	2	2
12         036712         Solenoid mounting bracket         1         1         47         108500003         Plug         1         1         1         14         108500003         Plug         1         1         1         1         14         036721001         Knife holding saddle         1         1         49         036700014         Wire clamp         1         1         1         1         1         49         036700014         Wire clamp         1 <td>10</td> <td>036710007</td> <td>Holder for flexible wire</td> <td>1</td> <td>1</td> <td>45</td> <td>03676</td> <td>Flexible wire asm</td> <td>1</td> <td>1</td>	10	036710007	Holder for flexible wire	1	1	45	03676	Flexible wire asm	1	1
13         S150203006         Screw         3         3         48         036700013—V         Rubber sleeve         1         1         1         14         036721001         Knife holding saddle         1         1         49         036700014         Wire clamp         1<	11	036711000V	Trimmer	1	1	46	036770000	Earth wire asm	1	1
14         036721001         Knife holding saddle         1         1         49         036700014         Wire clamp         1         1         15         036721002         knife base(left)         1         1         50         S120501005         Nut M5         2         2         2         2         1         1         1         50         S120501005         Nut M5         2         2         2         2         1         1         1         50         S120501005         Nut M5         2         2         2         2         1         1         1         1         50         S120501005         Nut M5         2	12	036712	Solenoid mounting bracket	1	1	47	108500003	Plug	1	1
15         036721002         knife base(left)         1         1         50         \$120501005         Nut M5         2         2         2           16         036721003         Washer         1         1         1         51         022200019         Screw         8         8           17         036721004         Screw         3         3         52         036800002         Screw         2         2         2           18         036720002         Blade(left)         1         1         53         165730008         Screw         2         2         2           19         036720003         Set screw         2         2         54         036911002         Pin         2         2         2           20         036720004         Knife driving crank         1         1         55         036710009         Coil spring         1         1           21         036720005         Screw         1         1         1         56         036710010         Collar for driving lever         1         1         1         2         2         2         2         2         2         2         2         2         2         2	13	S150203006	Screw	3	3	48	036700013V	Rubber sleeve	1	1
16         036721003         Washer         1         1         51         022200019         Screw         8         8           17         036721004         Screw         3         3         52         036800002         Screw         2         2           18         036720002         Blade(left)         1         1         53         165730008         Screw         3         3           19         036720003         Set screw         2         2         54         036911002         Pin         2         2         2           20         036720004         Knife driving crank         1         1         55         036710009         Coil spring         1         1         1           21         036720005         Screw         1         1         56         036710010         Collar for driving lever         1         1         1         2	14	036721001	Knife holding saddle	1	1	49	036700014	Wire clamp	1	1
17         036721004         Screw         3         3         52         036800002         Screw         2         2           18         036720002         Blade(left)         1         1         1         53         165730008         Screw         3         3           19         036720003         Set screw         2         2         54         036911002         Pin         2         2         2           20         036720004         Knife driving crank         1         1         1         55         036710009         Coil spring         1         1         1           21         036720005         Screw         1         1         56         036710010         Collar for driving lever         1         1         1         2         036720005         Screw         2         3         36780001         Scr	15	036721002	knife base(left)	1	1	50	S120501005	Nut M5	2	2
18       036720002       Blade(left)       1       1       1       53       165730008       Screw       3       3         19       036720003       Set screw       2       2       54       036911002       Pin       2       2         20       036720004       Knife driving crank       1       1       1       55       036710009       Coil spring       1       1         21       036720005       Screw       1       1       1       57       036550008       Screw       2       2         23       036720006       Screw       2       2       2       58       036780001       shaft       1       1         24       036720007       Nut       2       2       59       022320002       Screw       1       1         25       036730001       Cam follower crank(1)       1       1       60       036700016       Coil spring       1       1         26       036730002       Cam follower crank(2)       1       1       61       108400005V       Guard for plug       1       1         28       036730003       Roller stud       2       2       62       165720003       Rub	16	036721003	Washer	1	1	51	022200019	Screw	8	8
19         036720003         Set screw         2         2         54         036911002         Pin         2         2           20         036720004         Knife driving crank         1         1         55         036710009         Coil spring         1         1           21         036720005         Screw         1         1         56         036710010         Collar for driving lever         1         1           22         036720005         Link         1         1         57         036550008         Screw         2         2           23         036720006         Screw         2         2         58         036780001         shaft         1         1           24         036720007         Nut         2         2         59         022320002         Screw         1         1           25         036730001         Cam follower crank(1)         1         1         60         036700016         Coil spring         1         1           26         036730002         Cam follower crank(2)         1         1         1         1         1         1         1         1         1         1         1         1         1 <td>17</td> <td>036721004</td> <td>Screw</td> <td>3</td> <td>3</td> <td>52</td> <td>036800002</td> <td>Screw</td> <td>2</td> <td>2</td>	17	036721004	Screw	3	3	52	036800002	Screw	2	2
20         036720004         Knife driving crank         1         1         55         036710009         Coil spring         1         1         1           21         036720005         Screw         1         1         56         036710010         Collar for driving lever         1         1           22         036720005         Link         1         1         57         036550008         Screw         2         2         2           23         036720006         Screw         2         2         58         036780001         shaft         1         1         1           24         036720007         Nut         2         2         59         022320002         Screw         1         1         1           25         036730001         Cam follower crank(1)         1         1         60         036700016         Coil spring         1         1           26         036730002         Cam follower crank(2)         1         1         61         108400005V         Guard for plug         1         1           27         036730003         Roller stud         2         2         62         165720003         Rubber washer         1         1 <td>18</td> <td>036720002</td> <td>Blade(left)</td> <td>1</td> <td>1</td> <td>53</td> <td>165730008</td> <td>Screw</td> <td>3</td> <td>3</td>	18	036720002	Blade(left)	1	1	53	165730008	Screw	3	3
21       036720005       Screw       1       1       1       56       036710010       Collar for driving lever       1       1       1         22       036720005       Link       1       1       1       57       036550008       Screw       2       2         23       036720006       Screw       2       2       58       036780001       shaft       1       1       1         24       036720007       Nut       2       2       59       022320002       Screw       1       1       1         25       036730001       Cam follower crank(1)       1       1       60       036700016       Coil spring       1       1         26       036730002       Cam follower crank(2)       1       1       61       108400005V       Guard for plug       1       1         27       036730003       Roller stud       2       2       62       165720003       Rubber washer       1       1         29       036730004       Roller stud       2       2       64       S150632004       Washer       1       1         30       036700004       Knife driving shaft       1       1       65	19	036720003	Set screw	2	2	54	036911002		2	2
22         036720005         Link         1         1         1         57         036550008         Screw         2         2           23         036720006         Screw         2         2         58         036780001         shaft         1         1         1           24         036720007         Nut         2         2         59         022320002         Screw         1         1         1           25         036730001         Cam follower crank(1)         1         1         60         036700016         Coil spring         1         1           26         036730002         Cam follower crank(2)         1         1         61         108400005V         Guard for plug         1         1           27         036730003         Roller stud         2         2         62         165720003         Rubber washer         1         1           28         036730004         Roller stud         2         2         64         S150632004         Washer         1         1           30         036700004         Knife driving shaft         1         1         65         S150620012         Split retaining ring         1         1	20	036720004	Knife driving crank	1	1	55	036710009	Coil spring	1	1
23       036720006       Screw       2       2       58       036780001       shaft       1       1       1         24       036720007       Nut       2       2       59       022320002       Screw       1       1       1         25       036730001       Cam follower crank(1)       1       1       60       036700016       Coil spring       1       1       1         26       036730002       Cam follower crank(2)       1       1       1       108400005—V       Guard for plug       1       1       1         27       036730003       Roller stud       2       2       62       165720003       Rubber washer       1       1         28       036730004       Roller stud       2       2       63       165710001       Rubber washer       1       1         29       036730005       Nut       2       2       64       S150632004       Washer       1       1         30       036700004       Knife driving shaft       1       1       65       S150620012       Split retaining ring       1       1         31       036700006       Bushing       1       1       1       1	21	036720005		1	1	56	036710010	Collar for driving lever	1	1
24         036720007         Nut         2         2         59         022320002         Screw         1         1         1           25         036730001         Cam follower crank(1)         1         1         60         036700016         Coil spring         1         1         1           26         036730002         Cam follower crank(2)         1         1         61         108400005—V         Guard for plug         1         1         1           27         036730003         Roller stud         2         2         62         165720003         Rubber washer         1         1         1           28         036730004         Roller stud         2         2         63         165710001         Rubber washer         1         1         1           29         036730005         Nut         2         2         64         S150632004         Washer         1         1         1           30         036700004         Knife driving shaft         1         1         65         S150620012         Split retaining ring         1         1           31         036700006         Bushing         1         1         1         66         036711001<	22	036720005	Link	1	1	57	036550008	Screw	2	2
25         036730001         Cam follower crank(1)         1         1         1         60         036700016         Coil spring         1         1         1           26         036730002         Cam follower crank(2)         1         1         61         108400005V         Guard for plug         1         1         1         1           27         036730003         Roller stud         2         2         62         165720003         Rubber washer         1         1           28         036730004         Roller stud         2         2         63         165710001         Rubber washer         1         1         1           29         036730005         Nut         2         2         64         S150632004         Washer         1         1           30         036700004         Knife driving shaft         1         1         65         S150620012         Split retaining ring         1         1           31         036700006         Bushing         1         1         1         66         036711001         Washer         1         1	23	036720006	Screw	2	2	58	036780001	shaft	1	1
26       036730002       Cam follower crank(2)       1       1       1       108400005—V       Guard for plug       1       1         27       036730003       Roller stud       2       2       62       165720003       Rubber washer       1       1         28       036730004       Roller stud       2       2       63       165710001       Rubber washer       1       1       1         29       036730005       Nut       2       2       64       S150632004       Washer       1       1         30       036700004       Knife driving shaft       1       1       65       S150620012       Split retaining ring       1       1         31       036700005       Coil spring       1       1       66       036711001       Washer       1       1         32       036700006       Bushing       1       1       1       1       1       1       1	24	036720007	Nut	2	2	59	022320002		1	1
27       036730003       Roller stud       2       2       62       165720003       Rubber washer       1       1         28       036730004       Roller stud       2       2       63       165710001       Rubber washer       1       1       1         29       036730005       Nut       2       2       64       S150632004       Washer       1       1       1         30       036700004       Knife driving shaft       1       1       65       S150620012       Split retaining ring       1       1         31       036700005       Coil spring       1       1       66       036711001       Washer       1       1         32       036700006       Bushing       1       1       1       1       4	25	036730001	Cam follower crank(1)	1	1	60	036700016	Coil spring	1	1
28       036730004       Roller stud       2       2       63       165710001       Rubber washer       1       1         29       036730005       Nut       2       2       64       S150632004       Washer       1       1       1         30       036700004       Knife driving shaft       1       1       1       65       S150620012       Split retaining ring       1       1         31       036700005       Coil spring       1       1       66       036711001       Washer       1       1         32       036700006       Bushing       1       1       1       1       1       1	26	036730002	Cam follower crank(2)	1	1	61	108400005V	Guard for plug	1	1
29     036730005     Nut     2     2     64     S150632004     Washer     1     1     1       30     036700004     Knife driving shaft     1     1     1     65     S150620012     Split retaining ring     1     1     1       31     036700005     Coil spring     1     1     1     66     036711001     Washer     1     1     1       32     036700006     Bushing     1     1     1     1     1     1	27	036730003	Roller stud	2	2	62		Rubber washer	1	1
30     036700004     Knife driving shaft     1     1     65     S150620012     Split retaining ring     1     1       31     036700005     Coil spring     1     1     66     036711001     Washer     1     1       32     036700006     Bushing     1     1     1	28	036730004	Roller stud	2	2	63	165710001	Rubber washer	1	1
31 036700005 Coil spring 1 1 1 66 036711001 Washer 1 1 1 32 036700006 Bushing 1 1 1	29	036730005	Nut	2	2	64	S150632004	Washer	1	1
32 036700006 Bushing 1 1 1	30	036700004	Knife driving shaft	1	1	65	S150620012	Split retaining ring	1	1
	31	036700005	Coil spring	1	1	66	036711001	Washer	1	1
33   165720004   Stopper   1   1   1		036700006	Bushing	1	1					
	33	165720004	Stopper	1	1					











### 7 PRESSER FOOT MECHANISM

No. Ref.No.		Description	0	t.
IVO.	nei.No.	Description	М	Н
1	022710001V	Presser bar lifter	1	1
2	B040600294	Screw	1	1
3	022700002	Presser bar lifting cam	1	1
4	S150651010	Oil seal(4.5×1.8G)	1	1
5	022721001	Knee lifter lever (left)	1	1
6	022722001	Tension relasing cam	1	1
7	022723001	Screw	1	1
8	022720002	Screw	2	2
9	022720003	Knee lifter rod	1	1
10	022700005	Screw	1	1
11	022700006	Thread releasing pin	1	1
12	022730001	Knee lifter lever (right)	1	1
13	022730002	Coil spring	1	1
14	022730003	Knee lifter connecting rod	1	1
15	022700008	Pin for spring	1	1
16	022700009	Bushing for presser bar	1	1
17	022700010	Presser bar	1	1
18	027700001	Presser bar guide bracket	1	1
19	022100013	Screw	1	1
20	022700012	Presser bar spring guide	1	1
21	022700013	Presser bar spring	1	
	048700002	Presser bar spring		1
22	022750001V	Thumbscrew	1	1
23	022750002V	Lock nut	1	1
24	022700015	Screw	1	1
25	027701000	Presser foot asm	1	
	027C01000	Presser foot asm		1
26	027100005	Thread guide	1	1
27	022200004	Screw	1	1
28	057700002	Presser foot spring	1	1
29	022730004	Coil spring	1	1

### 8.WIPER MECHANISM

1 11-	I Dof No	Deceriation		
No.	Ref.No.	Description	М	Н
1	036910001	Wire connector	1	1
2	036911001	Wire	1	1
3	036910003	Cord clamp	1	1
4	S150607007	Washer3	8	8
5	S150602004	Washer3	8	8
6	S150216011	Screw M3×6	8	8
7	036910004W	Solenoid bracket	1	1
8	036910005W	Cover for wiper mech	1	1
9	036910006	Solenoid for wiper	1	1
10	036910007	Coil spring	1	1
11	S150651002	Retaining ring9	1	1
12	036910008	Rubber ring	1	1
13	036910009	Switch for wiper	1	1
14	036910010	Washer	1	1
15	036900002	Screw	1	1
16	022510004	Screw	2	2
17	036900003	Washer	2	2
18	027A00006	Wiper bracket	1	1
19	036921008	Wiper shaft asm	1	1
20	S150620014	Retaining ring 4	2	2
21	027A00007	Wiper	1	1
22	022610004	Screw	1	1
23	036920004	Link	1	1
24	036921007	Shaft	1	1
25	036900005	Screw	2	2
26	036921006	Washer	1	1
27	S150503014	Nut M3	1	1
28	036921005	Spring	1	1
29	165900001V	Rubber washer	1	1

### 9.OIL PUMP MECHANISM

No.	Ref.No.	Description	Q	t.
INO.	Helino.	Description	М	Н
1	022800001	Oil pump	1	1
2	022800002	Oil pump impeller	1	1
3	022800003	Screw	1	1
4	022800004	Screw	3	3
5	S150601003	Springee washer3	1	1
6	022800006	Oil pump fitting plate	1	1
7	022800007	Oil adjusting plate	1	1
8	02281	Oil pump screen asm	1	1
9	022800009	Screw	3	3
10	022820N	Oil pump for hook shaft	1	1
11	027811000	Oil braid fitting plate	1	1
12	022800012	Screw	2	2
13	022840N	Oil pump for arm shaft	1	1
14	027800001	Oil return pipe	1	1
15	027800002	Felt pouch for return oil filter	1	1
16	036A00002	Oil filter holder	1	1
			1	

### 10.BOBBIN WINDER MECHANISM

No.	Ref.No.	Description		Qt.	
INO.	nei.ivo.	Description	М	Н	
1	207107000W	Bobbin winder complete	1	1	
2	207107004	Bobbin winder support	1	1	
3	207107014	Bobbin winder lever	1	1	
4	207107012	Bobbin winder lever shaft	1	1	
5	207107006	Bobbin winder crank	1	1	
6	207107011	Bobbin winder cam	1	1	
7	207107008	Bobbin winder wheel	1	1	
8	207107007	Bearbushing	1	1	
9	207107010	Bobbin winder cam shaft	1	1	
10	207107003	Bobbin case complete	1	1	
11	S150866067	Bear 625ZZHR	2	1	
12	207107009	Rubber ring	1	1	
13	207107002	Spring	1	1	
14	207107005	Spring	1	1	
15	207107013	Spring	1	1	
16	207107001	Bobbin winder shaft	1	1	
17	207107015	Wrench	1	1	
18	W120607001	Retaining ting C6	1	1	
19	B062060768	Retaining ting E4	1	1	
20	S150237046	Screw M4X5	1	1	
21	S150633007	Waher plain	1	1	
22	S150224008	Screw M5X5	1	1	
23	B084060874	Screw M4X6	2	1	
24	001100009	Knife	1	1	
25	022830004	Screw SM3.57	2	2	
26	BXF9116009-W	Thread tension complete(Small)	1	1	
27	022200009	Screw	1	1	

### 13.OIL RESERVOIR AND ACCESSORIES

No.	Ref.No.	Description	Qt.		
INO.	nei.No.	Description	М	Н	
1	036C10001	Oil reservoir asm	1	1	
2	022910002	Screw	1	1	
3	022910003	Washer	1	1	
4	022910005	Oil gasket	1	1	
5	165F01001	Knee lifter lifting pin	1	1	
6	006F00030W	Thread spool asm	1	1	
7	02299	Hinge with rubber cushion	2	2	
8	022900009V	Cushion(B)	2	2	
9	022900010V	Cushion(S)	2	2	
10	W060401017	Magnet block	1	1	
11	W050102068	Screw drive(long)	1	1	
12	022900017	Oil tank	1	1	
13	W060302058	Machine head cover	1	1	
14	022900024	Needle bag	1	1	

### 11.REVERSE SEWING AND DETECTOR MECHANISM

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No.	Ref.No.	Description	Qt.	
			М	Н
1	238100006	Detector componts	1	
	238A 10001	Detector componts		1
2	022200019	Screw	2	2
3	238C00008	Wire clamp	1	1
4	022640003	Screw (shorter)	6	6
5	022100006	Screw (longer)	2	2
7	238700005	Wire clamp	1	1
8	027A00010d	Wire clamp	1	1
9	238731000	Electric-magnet for reverse sewing	1	1
10	165820001W	Side cover	1	1
11	036850001	Wahser	1	1
12	036800009	Pin	1	1
13	S150620004	Split retaining ring	2	2
16	238710000	Hand wheel asm	1	1
17	238710001	Hand wheel	1	1

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	18	S150215001	Screw M5x8	2	2
	19	238710002	Magnet assembly	1	1
1	21	B040600294	Screw M4x8	1	1
	24	0368300000	Reserve sewing switch asm	1	1
	25	029700100W	Bracket of reserve sewing switch	1	1
	26	036811	Button components	1	1
	30	022200019d	Screw	2	2
	31	257E00001	Motor	1	
		257G00001	Motor		1
	32	B048509294	Screw M5x8	4	4
	33	B084050974	Flat Washer S5	4	4
	34	B082050864	Spring Washer	4	4
	35	238720000	Safety switch asm	1	1
	36	238700006	Clamp	1	1
	37	B048500294	Screw M5x8	3	3
	38	022200019d	Screw	4	4
	39	BXF9716009	Clamp U	1	1
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# 12.AUTOMATIC FOOT LIFTER MECHANISM

No.	Ref.No.	Description	Qt.		
			М	Н	
1	108C01000W	Back plate	1	1	
2	036850001	Gasket for back plate	1	1	
3	S150620009	Stop ring 8	1	1	
4	S150607005	Washer 10	1	1	
5	108C02004	Shsft	1	1	
6	110280000	Seal	1	1	
7	108C02002	Link crank	1	1	
8	022612001	Screw	1	1	
9	108C02001	Link	1	1	
10	108C02003	Screw	1	1	
11	108C00001	Hinge screw	1	1	
12	108C01003	Screw	1	1	
13	S150610007	Washer 6	2	2	
14	S150601008	Washer 6	2	2	
15	S150258010	Screw M6x10	2	2	
16	022640003	Screw	7	7	
17	108C03000	Foot lifter solenoid	1	1	

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