CONTENT

I. Manin technical specifications

Sewing speed:420～500/minute

Stitch length:Maximum stitch distance 6.5mm

Minimum stitch distance 0.5mm

Stitch form: Single thread hand-made imitatiom stitch

Thread length: 90cm

Needle model：780C，SIZE：14#、16#、18#、20#、23#。

Lifting method of presser:Knee-controlled

Air pressure of compressor:5～8Pa

Lifting height of presser: 8mm

Lubrication: Spindle lubrication

Outline dimensions：128cm×96cm×86cm

Weight：170Kg

Power supply：380V 或 220V　50Hz

Motor power：0.55Kw

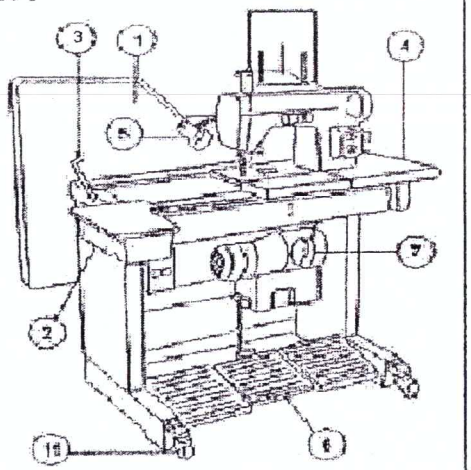
II.Installation of machine

1、Preparation work

After unpacked, assemble the accessories equipped in the machine, moveable roller feet(Four),thread rack and panel. Regulate the four

Moveable roller feet to make the panel be leveled, and clean the panel with soft cloth.(As shown in figure 1)

Figure 1



(1) Panel(1A)Supportingrod(2)Toolbox(4) Small pane l(5)Work lamp(6)Pedal(7)Knee-Controlled rod of lifting presser (11) Roller

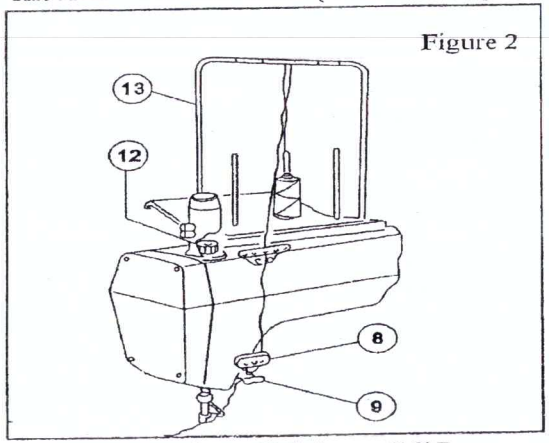
2、Connect the air pump and power supply

Check the motor and make sure if the power supply is 380Vor 220V.Select the powersuply that is suitable for the machine.Get the machine powered,press the switch button and turn on work lamp.Connect the self-contained air pressure pipe to guarantee that the output air pressure of air compressor is 4～6Pa.

3、Threading：

Put the tower thread onto the thread rack, and hold the thrum to thread it into the thread rack , thread-passing board , thread clamp , scissors, thread-passing hook,and pasit into the machine needle.The thread drawn out shouldn' t exceed 90cm (As shown in figure 2)

Figure 2



（8）Thread clamp(9)Scissors(12)Pressure Regulation bolt (13) Thread rack

4. Trial operation

Press the power swith,open the valve of air pipe and check if the hand wheel rotates according to the direction in dicated by the pointer,and check if the pressure is the standard value4～6Pa.Use left hand to pull out the thread with not more than 90cm from the thread clamp,and use right hand to cover the thread at the end of thread clamp into the scissors and Thread-Passing hook.Reversely step on the pedal(6),pneumatically lift the

needle-blocking seat (17) to make the hook needle show the hook mouth, and then cover the thread intothe hook mouth, reset the pedal and close the needle-lifting cy linder. The blocking needle will reset to block thehook mouth and close the thread into the hook mouth of hook needle. Slightly stepon the pedal forward, and the machine will run with low speed. With the increase of pressure of the pedal, the machine will work at the set maximum rotation speed. (As shown in figure 1)

Reset the pedal to the starting position and step onit reversely, under the effect of automatic needle-Stopping motor, the machine will automa tically stop the needle rod onto the highest position where the upper looper (46) lifts.

III. Operation of machine

1. Notes before the operation:

a.Check the needle type of machine, and select the matching thread. If it is necessary to replace the needle, please select matching needle-blocking seat. (Refer to form A)

Form A

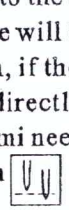
Needle model	No. of needle-blocking seat	Maximumthread (SYNTON)
90#	1	80#
100#	2	60#
110#	3	40#
125#	4	30#
160#	5	20#

b. The thread length must be controlled with the range of 90cm.

c. If the thread is too bad, which may influence the sewi sewing thread with good quality from Ger many, Japan or China. It's better to use resin core thread with resin coating.

2. Operation steps and methods

Start the air pump, turn on the power supply and step on the machine pe dal with right foot, the right knee shall sway to the right. Lift the machine presser to put into clothes for sewing, and the heel steps onto the pedal. The blocking needle will be lifted. Use left hand to pull out thethread with not more than 90cm from the loosen thread clamp, and use right hand to cover thethread at the end of thread clamp into the scissors and thread-passing hook and hook mouth of needle in turn. The blocking needle will reset to blockthe thread, and use left hand to throw away the thrum forward, and the right foot steps on the pedal forward, the machine will start its work.

When the clothes are sewn to the corner, reset the pedal. At this time, the needle will be in thesewing material. Observe the stitch, if the stitch is even, beautiful and appropriate, directly lft the presser to turn the corner. If lacks semi needle or passes too much, inch the middle button  ,Theneedle will stop at the highest position. Lift the presser to move the sewing material to yoursatisfactory position, prick the needle and turn the corner to sew.

When sewing the front fly of clothes, if it is re quired to change the stitch, inch the left but ton 

If it is necessary to change the size of bead, press the right button  to rotate the knob (15) for regulation.

3. Regulation of stitch length and bead size

a. Regulation of bead size

The left hand presses bead regulation button  without loosening, the right hand rotates the knob (15) to regulate the bead size. Rotate clockwise, the bead will be smaller, and rotate counterclock wise, the bead will be bigger. (As shown in figur e 3)When the black triangle ▼ points to the 0 pos ition on the scale of knob (15), the bead is the sm allest. At this time, if the regulation handle (16) is at the highest position, it indicates that the smallest bead is at the right side of the sewing material. (As shown in figure 4A)

At this time, if the regulation handle (16) is at the lowest position, it indicates that thesmallest bead is at the reverse side of the sewing material. (As shown in figure 4B)

If it is necessary to change the stitch, through inching the button , the highest and lowe st positions of regulation handle (16) can be ex changed, that is, the bead can be changed its ri ghtside or reverse side at the sewing material.

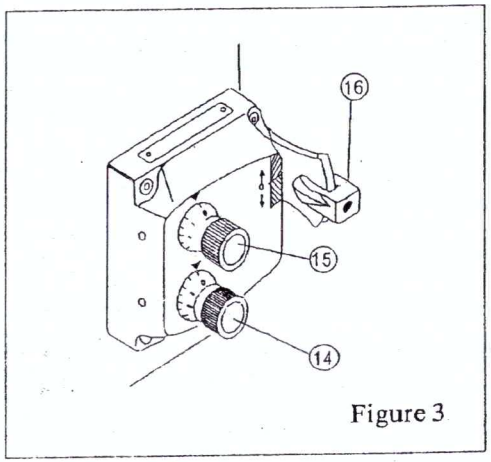


Figure 3

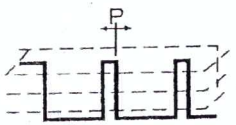
(14) Stitch knob (15) Bead knob
(16) Regulation handle

Rotate the knob (15) until it can' t be rotat ed. At this time, the bead is the biggest, and the stitches at right side and at reverse side are same. And the regulation handle (16) is at the middle position in horizontal status. (As shown in fig ure 4C)

b. Regulation of stitch le ngth

Rotate the knob (14) clockwise, the stitch will be shortened, and conversely, the stitch will be lengthened. When the black triangle ▼points to the 0 position on the scale of knob (14), the stitch is the shortest. Rotate the knob (14) coun terclockwise, when the black triangle ▼points to the 8.5 position on the scale of knob (14), the stit ch is the longest. (As shown in figure 3)

Figure 4A



Small bead

Figure 4B

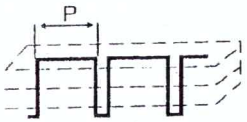
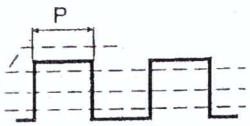


Figure 4C



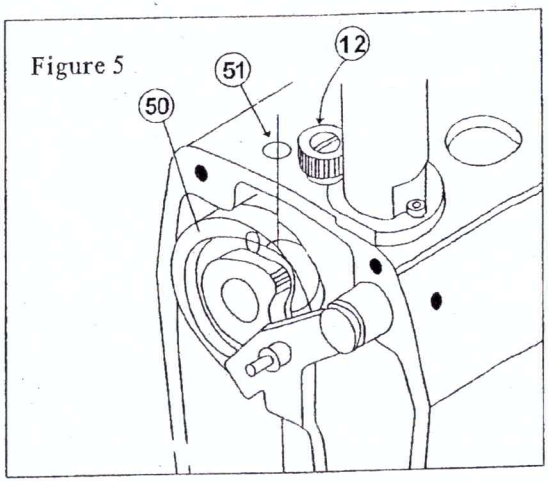
Big bead

To regulate a stitch with the right side 4mm and bottom side 2mm, the first step is to regulate the right side bead to 2mm according to the above regulation method a; the second step is to regulate the reverse side stitch length to 4mm according to the above regulation method b; the third step is to inch the change button of stitch. After these steps, the stitch with the right side 4mm and the bottom side 2mm is regulated.

4. Regulation of pres ser pressure

To stably carry out feeding at constant speed under different fabrics without damaging the fab ric during the feeding, regulate the pressure of presser. Rotate pressure regulation bolt (12) clo ckwise, he pressure will increase, and conversely, the pressure will decrease. (As shown in figure 5)

Figure 5



(12) Pressure regulation bolt (50) Cam of upper looper (51) Wrench plughole

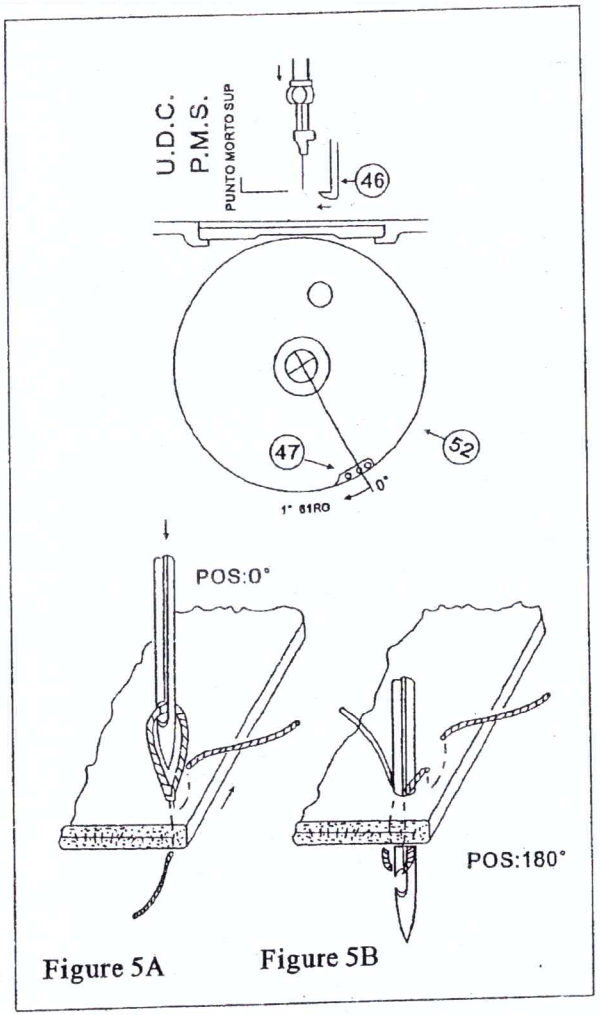


Figure 5A Figure 5B

(46) Upper looper (47) Rotary hook needle

(52) Thread disc

IV. Regulation of machine

1. Work principle

On the cloth, the machine will form a complete stitch, whose period consists of two work circula tions: The first work circulation is to complete the stitch at the top of the cloth. The secondwork cir culation is to complete the stitch at the bo ttom of the cloth.

The first work circulation (As shown in figure 5A): We take the last process that the second work circulation turns to the first work circulation (The needle takes the thread to leave the fabric to lift to the highest position, and the cloth-feeding teeth start to feed the cloth) as the basic 0 degree, that is, the starting point of the first work circulation. The needle takes the thread to lift to the highest position and move downward from the highest position , the upper looper (46) will hook the thr ead at the top of the needle to lift torward, and the needle will take the thread to prick into the sewing material. At this time, the machine has run for 180 degree. (As shown in figure 5B)The needle takes the thread to descend to the lowest position and then ascends , and loop is formed on the needle. The loop is hooked by the rotary hook needle (47) and leaves the needle mouth. The needle leaves the fabric without taking the thread. At the same time, the upper looper (46) stops at the position behind the needle. At this time, the machine has run for 360 degree, that is, the first work circul ation has finished. (As shown in figure 6A)

Thesecond work circulation: The needle moves downward from the highest position without tak ing the thread, and the upper looper is still at the brake position behind the needle. When the need le ascend upward from the lowest position without takingthe thread (As shown in figure 6B), the thr ead loaderwill feed the sewing thread into the hook mouth of needle. The needle will take the thread to ascend and leave the fabric. At thistime,

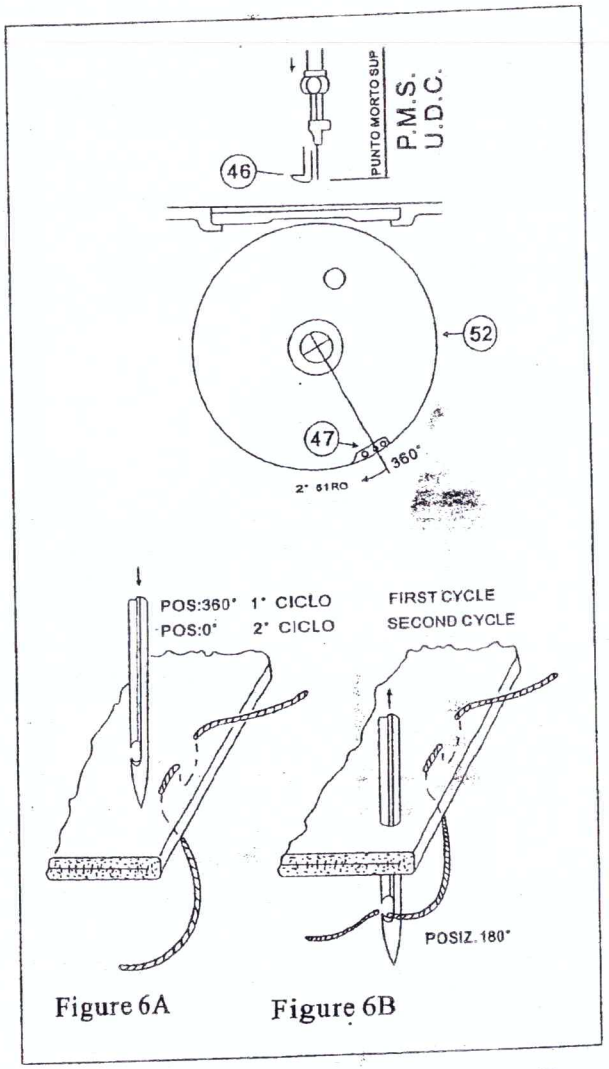


Figure 6A Figure 6B

(46) Upper looper (47) Rotary hook needle

(52) Thread disc

the machine has run for 720 degree. The second work circulation has finished.

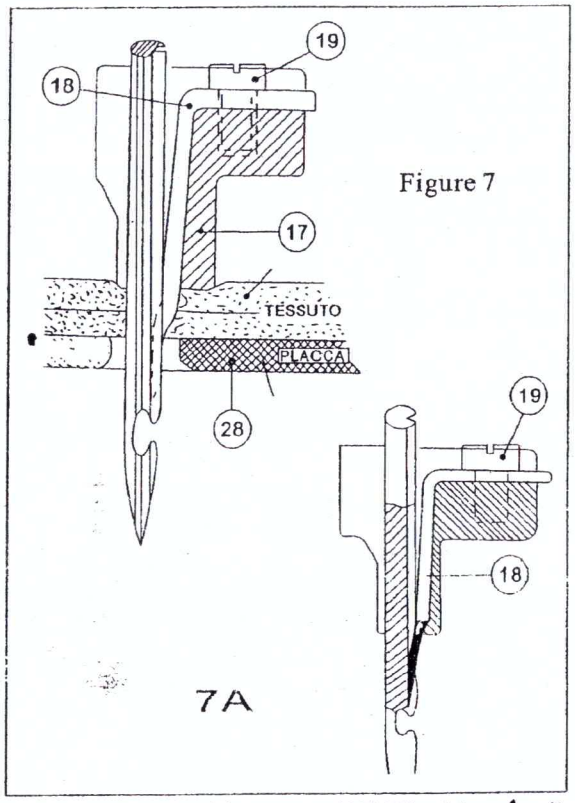


Figure 7

(17) Needle-blocking seat (18) Blocking needle
(19) Screw (20) Needle plate

After the two work circulations are finished, the operation process of ne edle rod, upper looper (46) and rotary hook needle is as follows:

A. The blocking needle has made twice open and close actions.
B. The upper looper (46) has made once front-back hooking action.
C. The rotary hook needle (47) has rotated for 720 degree. (Two circles)

2. Installation and regulation of blocking needle

Dismantle the needle-blocking seat (17), and remove the needle. Select new blocking needle (18) to install it on the needle-blocking seat (17). Fix the matching needle onto the needle rod (22) with needle-fixing cover (24). (As shown in figure 7 and figure 8)

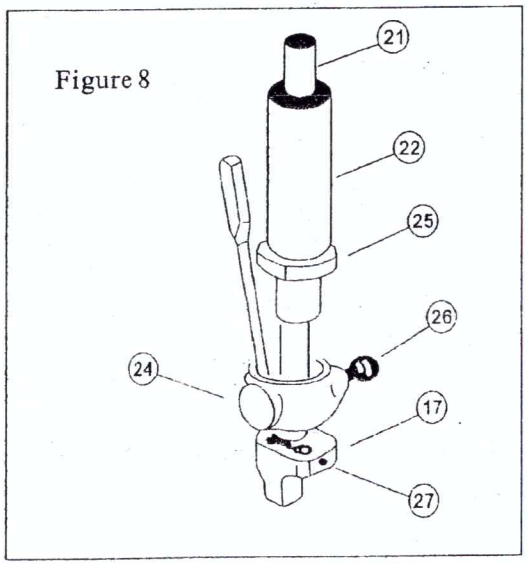


Figure 8

(17) Needle-blocking seat (21) Small needle rod
(22) Needle rod (24)Needle-fixing cover
(25) Stopper (26) Screw (27) Screw

On the needle-blocking seat (17), use screw (19) to fasten the blocking needle (18) (As shown in figure 7A), install the needle-blocking seat (17) onto the small needle rod (21), and thesticking force of tip of blocking needle and machine needle shall be guaranteed to be as small as possible.

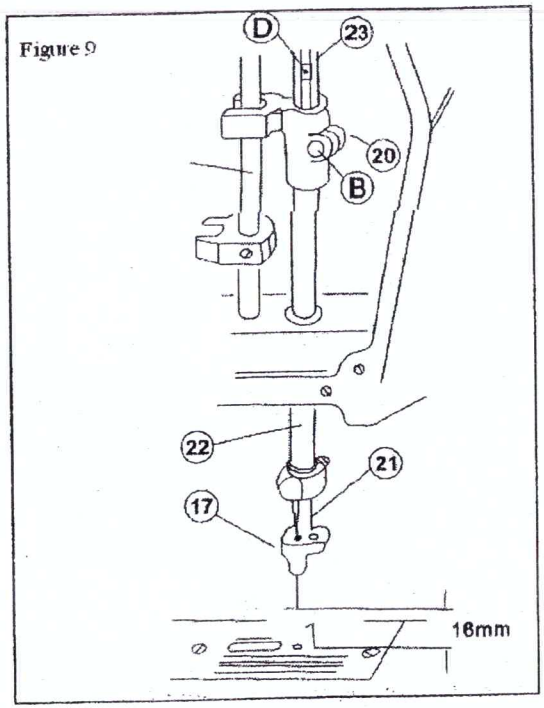
Check if the fastening screw on the needle-blocking seat is locked, check if the movement of needle-blocking seat along the needle is flexible and stable, and check if it is straight-line movement.

3.Installation of needle rod and regulation of height

Check the sliding status of the small needle rod (21) in the needle rod (22). Regulate the sliding block (23) to make the small needle rod (21) be under the flexible and best status at the sliding place of the needle rod (22).

Install the machine needle and blocking needle on the needle rod in turn. Note that the top of the needle must contact the stopper (25). After fastening the machine needle by screwing down the screw (26), loosen the screw (B) at the transmission joint of needle rod, and rotate the needle rod to make the screw (26) point to the right side. And the hook mouth of the needle shall face the operator. The needle tip shall be aligned with the center of plate hole. Rotate the handwheel to make the transmission joint (20) of the needle rod reach the highest position. Regulate the heightof needle rod to make the distance between the needle tip and needle plate be 16mm. Whenlocking the screw (B) at the transmission joint of needle rod, please be careful to avoidtransforming the inside small needle rod. When the needle rod reaches the lowest position, rotate the basic hole (45) of large disc to make it be at the central line of the machine needle. (As shown in figure 9)

Figure 9



(17)Needle-blocking seat (20) Tran smission joint (21) Small needle rod (B) Screw (22) Needle tube (23)Sliding block (34)Presser rod (D)Screw

Check if the fastening screws (26), (27), (B) and (D) are firmly fastened.

Check if the movement of needle rod has any obstacle and check if the needle tip moves along straight line.

4. Regulation of height of blocking needle

The position of blocking needle is closely associated with the machine needle and it depends on the position of needle.When the needle rod is at the highest position,the blocking needle shall block the hook mouth of machine needle,and shall exceed the hook mouth for 0.8～1.2mm.

(As shown in figure 11)

Figure 11

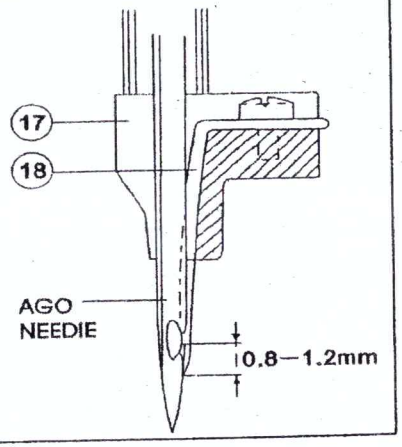
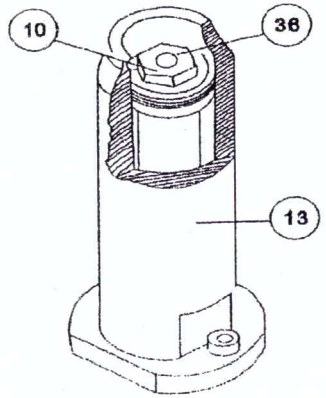


Figure 12



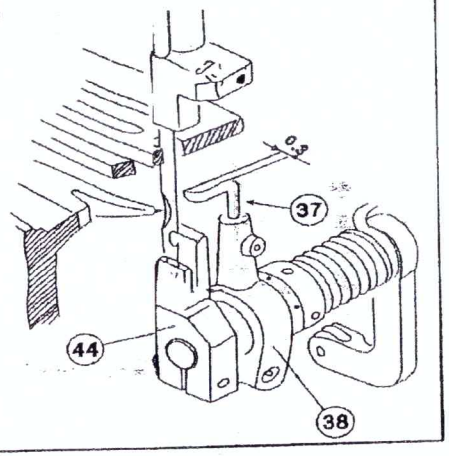
(10)Screw (13)Cylinder (36)Screw

Rotate the screw cap (10) to regulate the height of blocking needle. Rotate clockwise, the blocking needle will ascend; rotate counter clock wise, the blocking needle will descend. After the regulation, fasten the screw (36). (As shown in figure 12)

1. Regulation of lower feeding hook

Install the lower feeding hook (37) to make its tip stretch out of its own shaft for about 0.3mm.(As shown in figure 13)

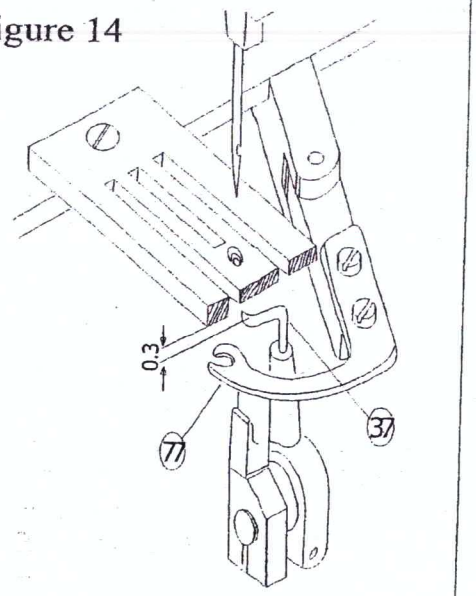
Figure 13



(37)Lower feeding hook (38) Seat of lower feeding hook (44) Needle protection head

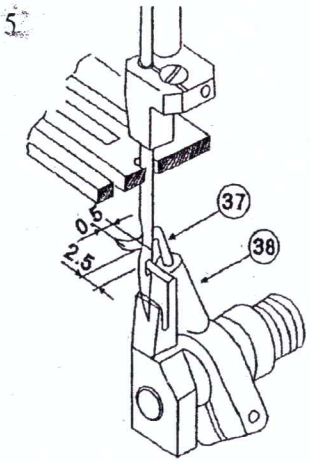
Rotate the hand wheel to make the highest position of lower feeding hook(37)be vertical to the bottom of needle plate.Regulate the distance between then to be 0.3mm(As shown in figure 14)

Figure 14



(37)Lower feeding hook (77) Thread loader

Figure 15

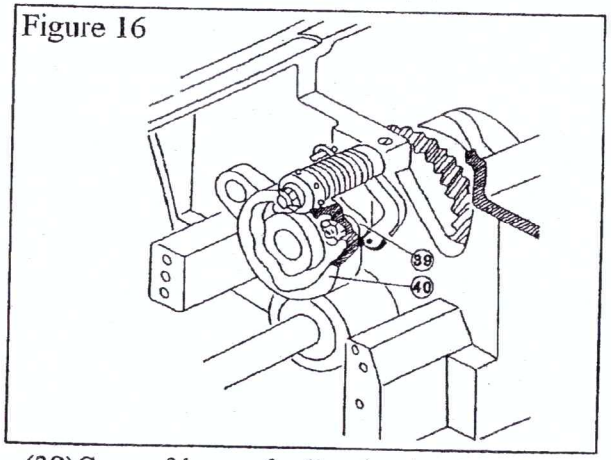


(37)Lower feeding hook(38)seat of lower feeding hook

Rotate the hand wheel to make the lower feeding hook behind the needle reach the end of its stroke.Regulate the seat of lower feeding hook (38) to make the back end of lower feeding hook have a distance of 2.5mm with the machine needle, and the left outside part at its front end be out of 0.3mm to the left of machine needle (As shown in figure 15)

The matching movement of the lower feeding hook (37) and the needle rod is: The machine needle moves downward to the height of tip of lower feeding hook, and the lower feeding hook behind the needle reach the end of its stroke.The cam (39) that controls the movement of lower feeding hook and the cam (40) that controls the thread clamp shall contact.(As shown in fighre 16)

Figure 16

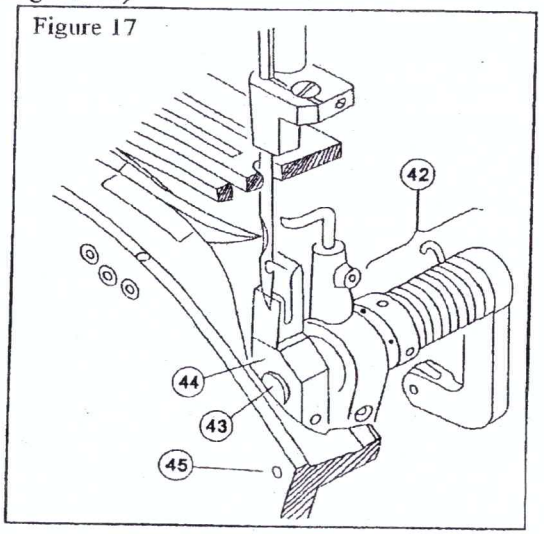


(39)Cam of lower feeding hook (40) Cam of thread clamp

Check if the axial movement interval of the cam rocker of lower feeding hook(42) is large.If it is too harge it may cause the malfunctions such as skipped stitch and thread dropping etc.Push the axial bolt(43)to the direction of machine support,

Which can remove the interval.Pay attention to ensure the flexibility of rocker . (As shown in figure 17)

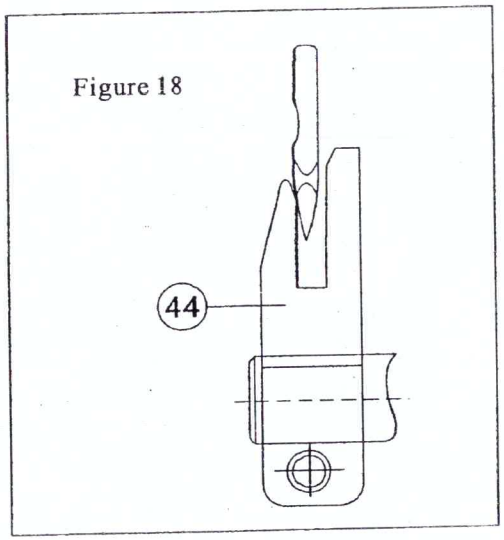
Figure 17



(42) Rocker (43) a xial bolt (44) Needle protection head (45) Positioning hole

6.Regulation of needle protection head The effect of needle protection head is to prevent bending the needle during sewing thick material(As shown in figure 18).The needle shall contact the internal side of short teeth of the needle protection head.When the machine needle ascends to 2mm from the lowest position,it still contacts the needle protection head.When the needle ascends to 3mm,it will leave the needle prote ction head.After the regulation,check if the fastening screw of needle protection head is fastened.

Figure 18



(44) Needle protection head

7. Regulation of upper looper

Install the upper looper (46) to make the hook tip keep a height of 16.3mm with the needle plate. To avoid the needle being broken and the screw (F) being loosened during the return stroke, rotate the seat of upper looper (48) to make 5 degree bevel between the looper and the machine needle. (As shown in figure 19 and figure 20)

Figure 19

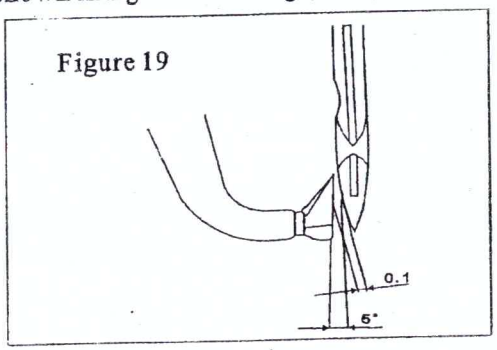
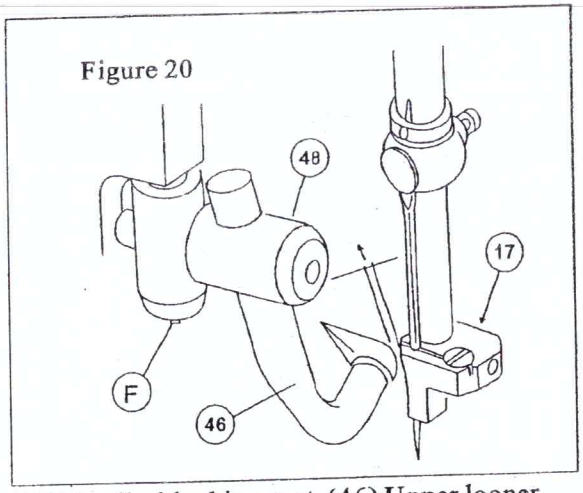


Figure 20



(17) Needle-blocking seat (46) Upper looper
(48) Seat of upper looper (F) F screw

In figure 6A, when the needle rod is at the starting point of the second circulation (The needle leaves the fabric and move upward without taking the thread), the second screw of the cam of thread clamp (40) (Judge the position of the second screw according to the rotation direction of the cam at 40 degree) is vertically upward, and the second screw of the cam of upper looper (50) is screw of the cam of thread clamp (40) is vertically upward, the first screw of the cam of upper looper (50) is also upward, at this time, the position of needle rod is at the first circulation at 180 degree. That is,the needle takes the thread to prick into the cloth. As shown in figure 21 and figure 22, at this position, first fasten the screws of cam (40) and cam (50), and make preparations for the synchronization regulation

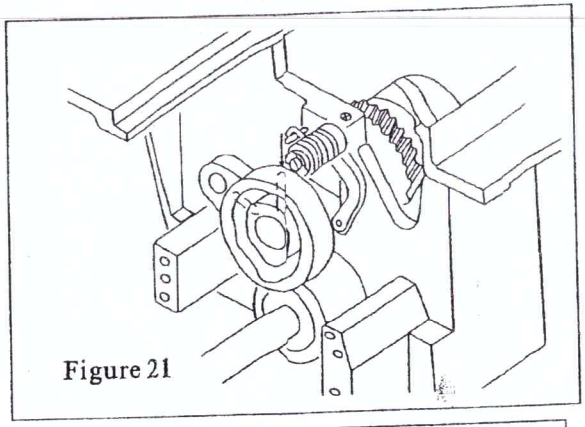
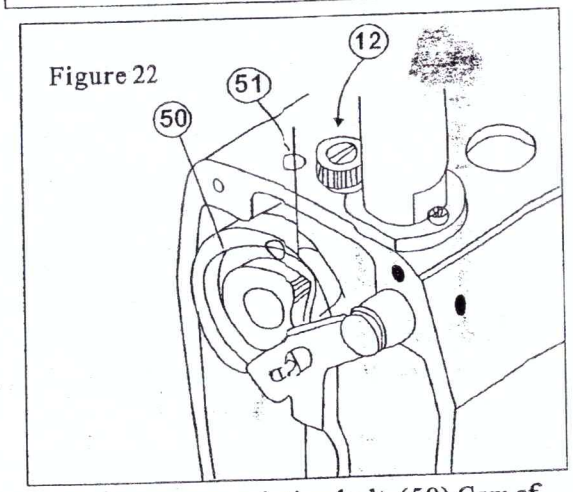


Figure 21

Figure 22

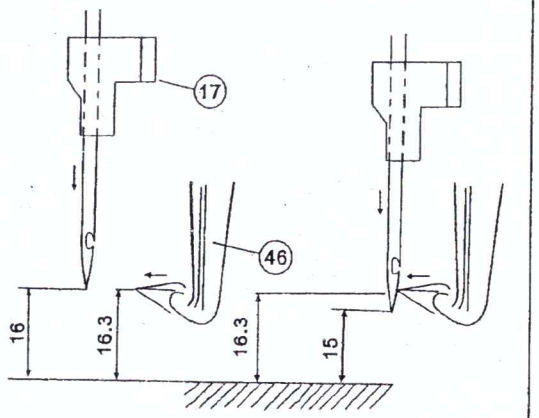


(12) Pressure regulation bolt (50) Cam of upper looper (51) Wrench plughole

Rotate the handwheel, put the needle rod at the first circulation position, and the needle rod will descend for 1mm from the highest position (As shown in figure 23). At this time, the upper looper will move forward and the tip of hook needle has reached the central line of the machine needle, and is 1mm higher than the tip of ma chine needle. If the position is not accurate, regulate the cam (50)

until it is accurate.

Figure 23



(17) Needle-blocking seat (48) Upper looper

Check if the screws of the cam of upper looper (50) are fastened. Check if the front-back movement of upper looper is stable and flexible.

8. Regulation of lower cloth-feeding teeth transmission mechanism

Preparation work: Figure 24 is the assembly figure for the regulation box of stitch. The figure indicates the three basic surfaces for assembly. Before regulating the transmission mechanism, first check these basic surfaces and restore them to the normal work status.

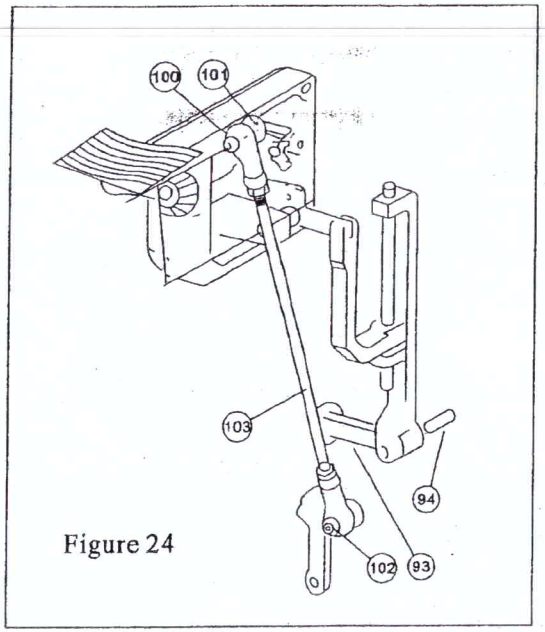


Figure 24

(93) Control rod of stitch length (94) Pin
(100) Screw(101) Joint bearing (102) Screw
(103) Connection rod

The sequence for dismantling the regulation box of stitch is as follows:

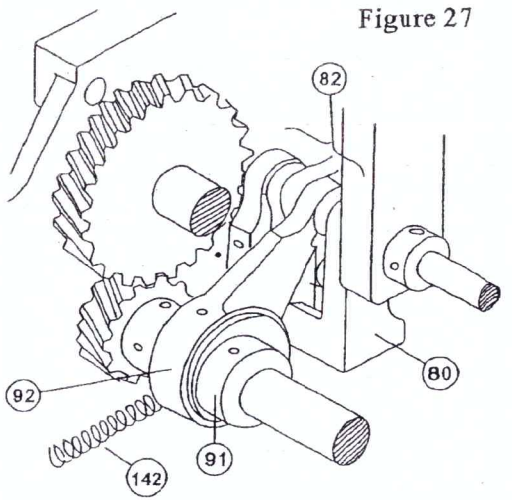
a. Remove the screw (100), loosen the joint bearing of tran smission rod (101).

b. Remove the screw (102) from another joint bearing, and take off theconnectionrod(103).

c.Take off the reset tension spring for cloth-feeding (142). (As shown in figure 27)

d.Take off the connection pin (94). (As shown in figure 28)

Figure 27



(80) Roller frame (82) Loop (91) Eccentric wheel for cloth-feeding (92) Straightrod
(142) Tension spring

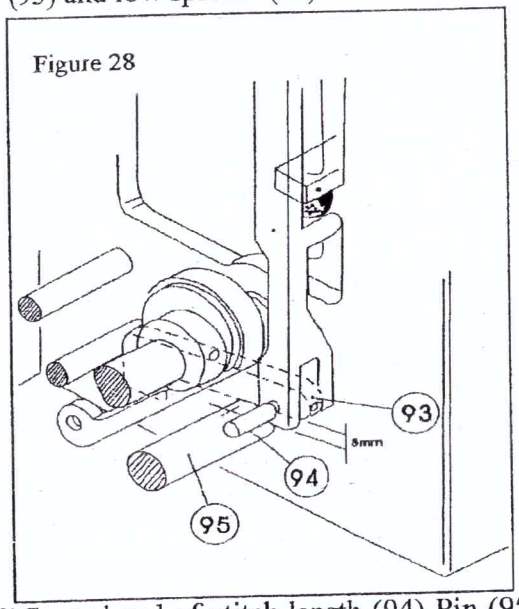
e. After checking the four screws (104) removed from the regulation box of stitch, if it is necessary to regulate the three basic surfaces, please install the regulation box ofstitch according to the reversesequence of dismantling. Before installing the reset tension spring for cloth-Feeding, please first install the connection pin (94). Before regulating the transmission mechanism, please regulate the bead to the smallest and the stitch to the longest.

Regulation work:

A. As shown in figure 27 and figure 28,

Pull the roller frame (80), the fourloops (82) will coincide with each other.The distance between the control rod of stitch length (93) and low spindle (95) is 3mm

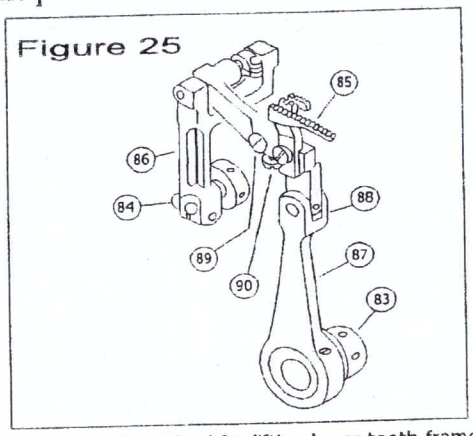
Figure 28



(93)Control rod of stitch length (94) Pin (95) Low spindle

B.As shown in figure 25,first ensure that the machine needle is vertical to the needle plate(28),thenalign the needle hole on the needle plate with the machine needle.Put the lower cloth-feeding teeth onto the center of needle plate.Regulate the frame of lower cloth-feeding teeth(86)and eccentric wheel for lifting teeth frame(83),and guarantee that the Movement trace of cloth-feeding teeth will not deviate from the center or collide with the needle plate.

Figure 25



(83)Eccentric wheel for lifting lower teeth frame (84)Screw(85)Lower cloth-feeding teeth(86) Transmission rod of teeth frame(87)Straight rod (88)(89)(90)Screw

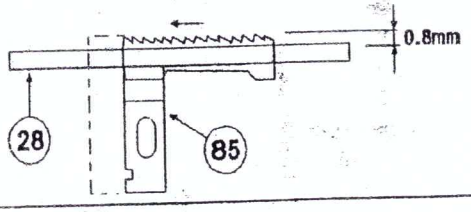
C.Positioning of eccentric wheel for cloth-feeding(91),as shown in figure 27.First regulate the eccentric wheel for lifting teeth frame(83)to make the lower cloth-feeding teeth be at the highest position on the needle plate(28).Rotate the handwheel,when the needle rod is at the highest position,the lower cloth-feeding teeth(85)have moved half of the whole stroke.At this time,make marks on the needle plate (28) for the front position of the lower cloth-feeding teeth (85),continue to rotate the handwheel.When the needle rod is at the lowest position,the lower cloth-feeding teeth have returned to the half position of the whole stroke from the terminal.At this time,the front position of lower cloth-feeding teeth(85)will coincide with the mark line on the needle plate (28).After regulation for several times,the above requirements are satisfied, fasten the screw of eccentric wheel for cloth-feeding (91).

D. Rotate the handwheel to make the cloth-feeding teeth (85) be at the highest position on the needle plate. Regulate screws (88) and (89) to make the cloth-feeding teeth be parallel with the needleplate.(As shown in figure25)

According to the following two conditions, check if the movement of cloth-feeding teeth is correct:

(1)When the needle rod is at the highest position, the height of the lower cloth-feeding teeth on the needle plate shall be 0.8mm (As shown in figure 26)

Figure 26



(28)Needle plate(85)Lower cloth-feeding teeth

(2)When the lower cloth-feeding teeth start to ascend to be parallel with the needle plate or when the lower cloth-feeding teeth start to descend to be parallel with the needle plate, the height from the needle tip to the needle plate shall be the same.If the movement of the cloth-feeding teeth can't meet the above repuirements, through

Regulating(90)(Figure25),orregulatingeccentr ic wheel forlifting teeth frame (83) ,the movement can be corrected.

9. Regulation of lower rotary hook needle

①Dismantle the thread disc(52)and fastening disc.Make sure that the spindle has no interval.Remove the rotary hook needle (47), remove the pin(54),clean the burrand scratch on the bearing(53)and hook needle(47),and polish the thread-passing sur face of them.(As shown in figure 30)It is suggested to use0#polishing sandpaper.

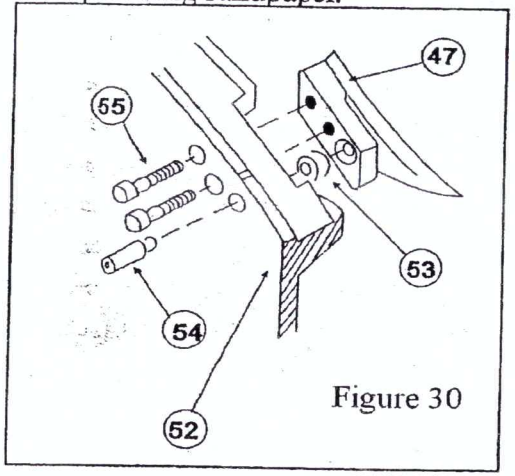


Figure 30

(47)Rotary hook needle (52) Thread disc (53) Small bearing (54)Pin(55)Screw

②Check if the rotation of the bearing (53) along the thread direction is flexible.Check if the thread-passing point of fastening disc is smooth.Clean the residuals inside the thread slot.

③When the needle rod is fastened at the lowest position, move the thread disc (52) and make the basic hole (45) of thread disc 52) be aligned with the central line of the corresponding machine needle. (Figure17) Rotate the handwheel along the working direction,when the needle rod ascend for 1.3mm,,the rotary hook needle(47)will reach the central line of the machine needle at the same time.(Figure31),and it is in the center of concave of the needle.

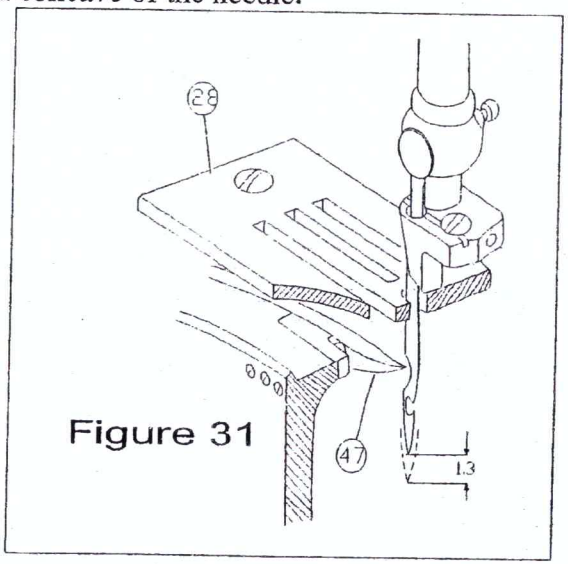


Figure 31

(28)Needle plate (47) Rotary hook needle

When the needle rod exceeds the position, the thread will form a loop and cause skipped stitch (As shown in fihure32)

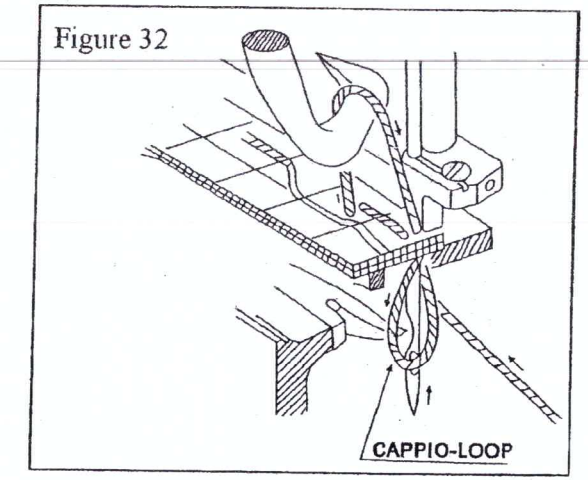
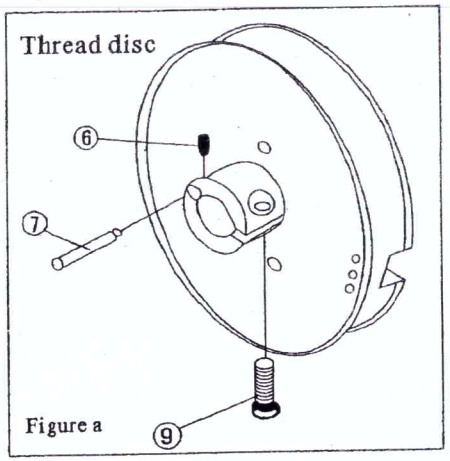


Figure 32

④When the rotary hook needle(47)reaches the front of the center of machine needle,the needle protection block must protect the machine needle.The interval between the rotary hook needle and the machine needle shall be 0～0.05mm.

⑤When sewing different matrials, the machine may has broken thread or skipped stitch etc.Malfunctions.Just regulate the thread hooking time of the thread disc.(As shown in figure a)Loosen the hexagon screws(9)and (6),rotate the eccentric pin(7)with slotted screwdriver,the thread disc change the thread hooking time.For example,if want to delay the time,just regulate to that when the needle ascends for 1.5mm from the lowest position,the tip of rotary hook needle will reach the central line of the machine needle.

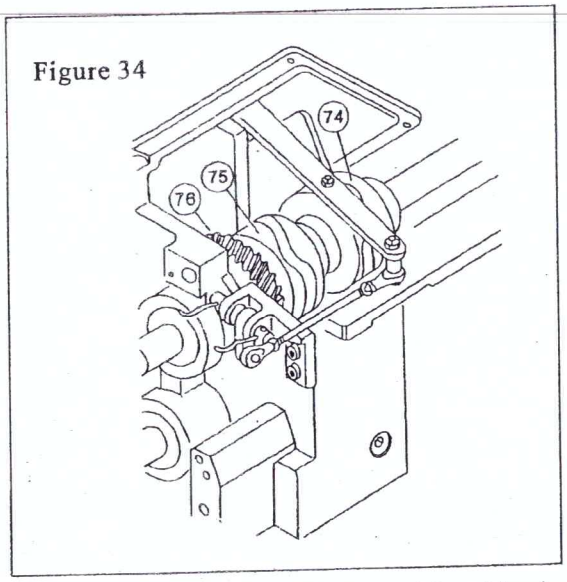


(6) Screw (7) Eccentric pin (9) Screw

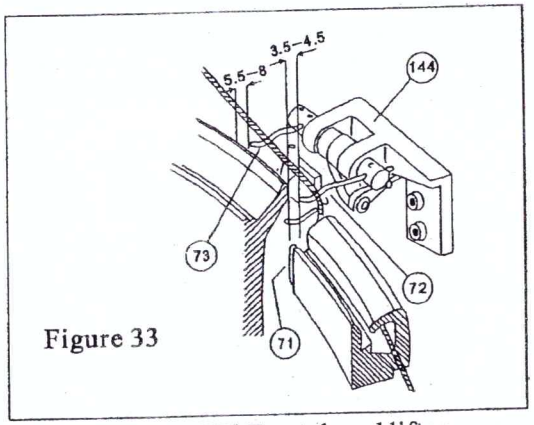
10. Regulation of thread lifter

To differentiate the two thread lifters, we call the one that is near to the operator as front thread lifter (72), and the other one that is near to the needle as back thread lifter (73). The distance between the front thread lifter and the side of the lower thread disc (52) is 3.5~4.5mm, and the distance between the back thread lifter and the side of the lower thread disc (52) is 5.5~8mm. The thread lifter support (144) shall beassembled so that the two thread lifters can reach the side of thread disc (52)simultaneously. (As shown in figure 33)

The coordination position of (72), (73) thread lifters and upper looper (46) is: At the first work circulation, when the two thread lifters (72), (73)



(74) Cam of thread lifter (76) Cam of thread loader

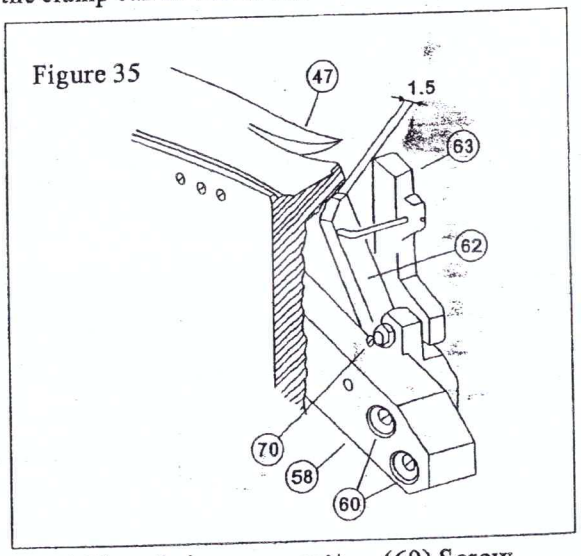


(71) Small piece (72) Front thread lifter
(73) Back thread lifter (144) Thread lifter support
are at the lowest position, the upper looper (46) just reaches the central line of machine needle. Regulate the cam (74) to meet the above requirements. (As shown in figure 34)

Move the shaft of thread lifter to make the front thread lifter leave the small piece (71) for 3.5mm. (As shown in figure 33)

11. Regulation of lower thread clamp

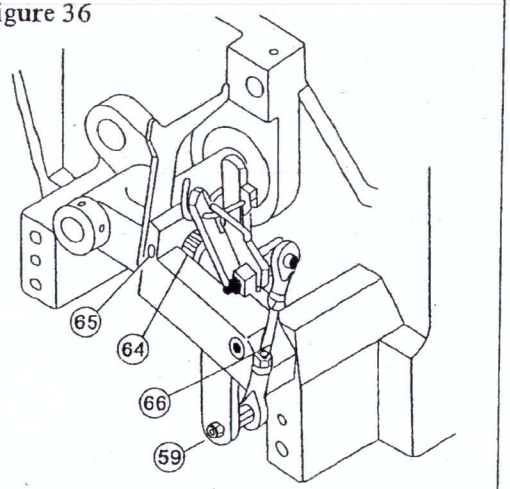
Remove the lower thread disc (52) (Figures 35 and 36), remove the screw cap (59) and screw (60), the clamp can be taken off.



(58) Thread clamp support (60) Screw
(62) Left thread clamp board
(63) Right thre ad clamp board (70) Screw

For the pressure regulation of the thread clamp boards (62), (63), loosen the screw (65) and rotate the knurled nut (64) to regulate the pressure of thread clamp boards. (As shown in figure 36)

Figure 36

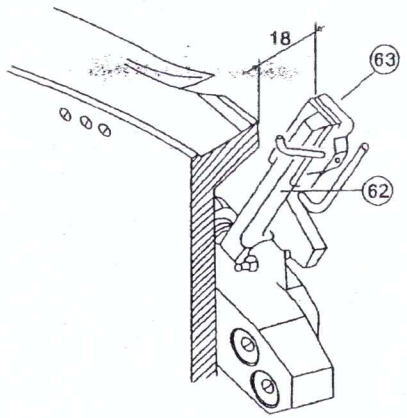


(59) Nut (64) Knurled nut (65) Screw (66) Connection rod

The pressure of thread clamps (62), (63) shall be higher than that of the steel-wire hook (61). To maintain the relation, check their reset status under the effect of torsion spring. Regulate to the required minimum pressure, with rapid and reliable reset pressure.

Rotate the machine by hand to make the closed thread clamp reach its horizontal terminal to the right. The distance between the right edge of lower thread disc (52) and the center of closed thread clamp shall be 18mm. Regulate the two ends of connection rod (66) to change the distance. (As shown in figures 36 and 37)

Figure 37



(62) Thread clamp (63) Thread clamp

Regulate the steel-wire hook (61) to make the distance between its top and the internal wall of the thread disc be 1mm. (Figure 38)

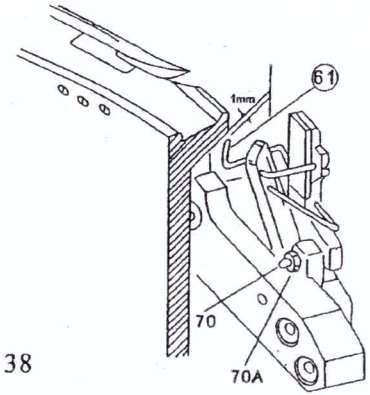


Figure 38

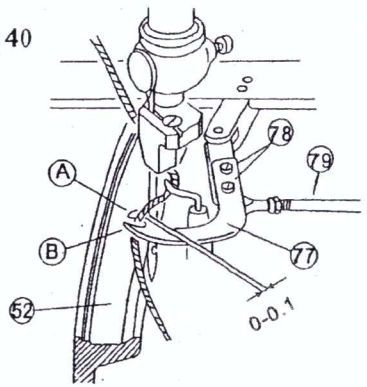
(61) Steel-wire hook (70) Screw (70A) Nut

The coordination relation between the thread clamps (62), (63) and the upper looper (46) is: At the first work circulation, the end of the upper looper reaches the center of needle, and at the same time, the thread clamp is closed again, and then, it immediately opens. At this time, the position is the best, and the opening distance of the thread clamp is 1.5mm. Loosen the fastening screw (70A), and regulate the screw (70) to the satisfactory position. (As shown in figure 38)

12. Regulation of lower thread loader mechanism

The main action of the lower thread loader (77) is to load thread for the machine needle. (As shown in figure 40) When its front right part A is close to the needle, it can contact the needle, but it is not permitted to collide with the needle

Figure 40



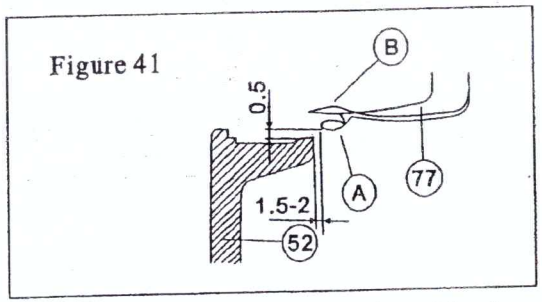
(52) Thread disc (77) Lower thread loader (78) Screw (79) Connection rod

Loosen the two screws (78), move the lower thread loader on the connection board of lower thread loader to regulate its position. (Figure 40)

When the lower thread loader points returns to the terminal at the right, the distance between the front right part A of the thread loader and the right edge of the thread disc (52) shall be 1.5mm~2mm. (As shown in figure 41) Regulate the connection rod (79) to reach the accurate distance.

The height between the thread loader and the thread disc shall be 0.5mm, which can be regulated through wrenching the thread loader. (As shown in figure 41)

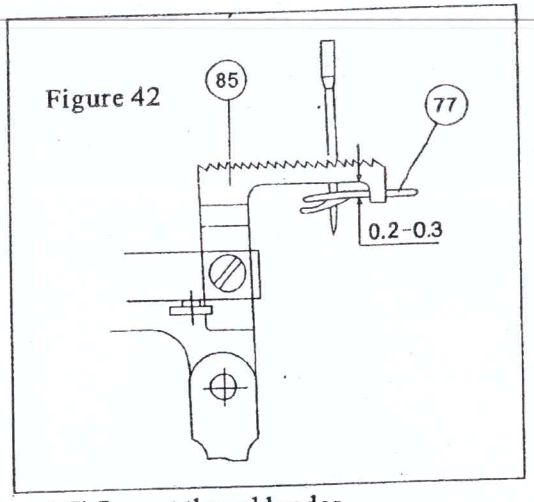
Figure 41



(52) Thread disc (77) Lower thread loader

The interval between the lower thread loader and the lower thread-feeding teeth is 0.2~0.3mm. (As shownin figure 42)

Figure 42



(77) Lower thread loader

(85) Lower thread-feeding teeth

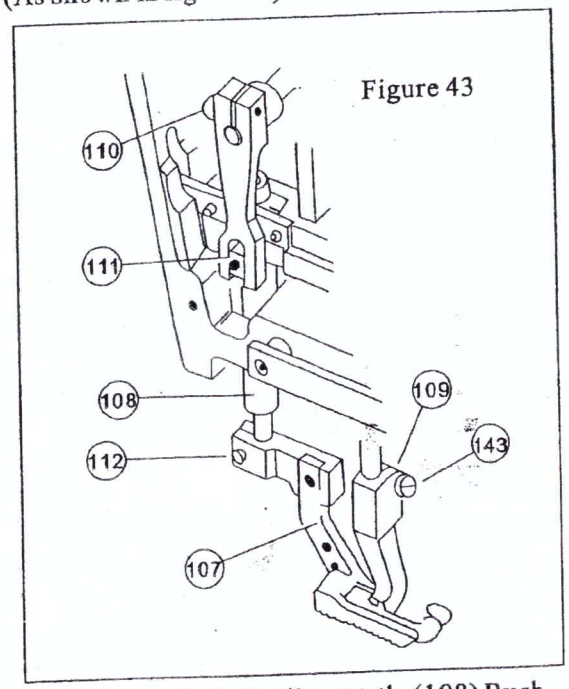
Rotate the handwheel to make the machine needle reach the lowest point at the second circulation. Rotate the cam (75). When the thread loader starts to load thread for the machine needle, slightly lock the cam (75). Rotate the handwheel to make sure that the thread on the thread loader is about 3mm on the hook mouth of the machine needle. Then fasten the cam (75). (As shown in figure 34)

13. Regulation of upper cloth-feeding mechanism

At the first circulation of the machine, when the lower cloth-feeding teeth are lower than the needle plate, install the upper cloth-feeding teeth (107) and presser foot (109) (As shown in figure 43). Loosen the screw (112), regulate the upper cloth-feeding teeth to align them with the needle plate slot and make them be parallel with it.

Rotate the handwheel to make the lower cloth-feeding teeth be at the lowest position. Check if there is any interval on the combination surface of the presser foot (109) and needle plate. If there is, trim and seal them. Check if the distance between the upper cloth-feeding teeth and needle plate is same as that between the upper cloth-feeding teeth and needle plate. Loosen the screw (143) and move the presser foot up and down to regulate the distance. (As shown in figure 43)

Figure 43



(107) Upper cloth-feeding teeth (108) Bush (109) Presser foot (110) Screw(111) Sliding block (112) Screw (113)Screw

Rotate the handwheel to check the engagement status of the upper cloth-feeding teeth and lower cloth-feeding teeth. Regulate the stitch to the longest and check if there is any collision of the upper

cloth-feeding teeth. If there is, loosen the screw (110) to regulate the position of rocker and eliminate the collision. Note that the tip of upper cloth-feeding teeth shallbe engaged in the root of the lower cloth-feeding teeth, and they shall be parallel.

Regulate the lifting eccentric wheel for upper cloth-feeding teeth to make the upper cloth-feeding teeth drop onto the lower cloth-feeding teeth when they protrude from the needle plate. At this time, fasten the screw of the lifting eccentric wheel for upper cloth-feeding teeth, and the eccentric wheel shall be in line with the connection rod.

Rotate the handwheel, when the upper looper (46) reach the vertical line of the presser foot at the first circulation, sway the right knee to lift the presser foot to thehighest position. At this time,the upper looper contacts the presser foot (109), and under such situation, please regulate the screws (116) and (117). (As shown in figure 45)

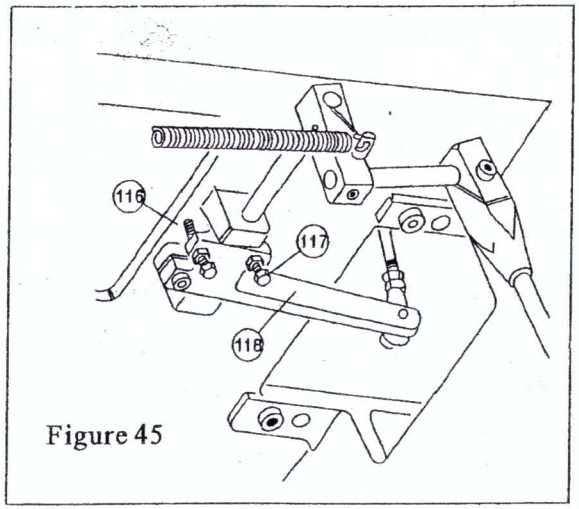


Figure 45

(116) Screw (117) Screw (118) Knee lifter connection level

As shown in figure 44, move the round knurl (114) to regulate the movement of upper cloth-feeding teeth, and realize the synchronous movement of the upper and lower cloth-feedingteeth.

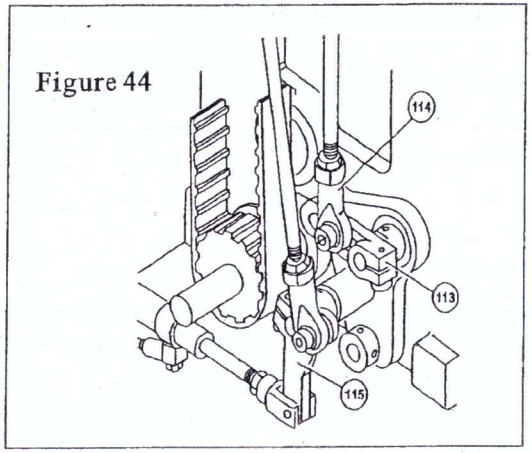


Figure 44

(113) Upper cloth-feeding crank
(114) Round knurl (115) Connection rod

14. Regulation of nonconformity of right and reverse beads of fabric

Prepare the work, rotate the stitch knob (14) counterclockwise to regulate the stitch to the longest. Loosen the screw of roller frame (120) and move the roller frame (120) to keep a certain distance with the stitch regulation block (121). (As shown in figure 47)

For the positioning of bead eccentric wheel (122), wrench the regulation handle for right and reverse beads (16) to the highest position, fasten the screw (119) and rotate the handwheel. At the first circulation of the machine, when the needle is at the highest position, rotate the bead eccentric wheel (122) to make it push the forward movement of the roller frame (120) till the terminalposition. Fasten the screw of bead eccentric wheel (122). Make sure that when the machine runs the second circulation with the needle rod at the highest position, the roller frame will return to the starting po sition.

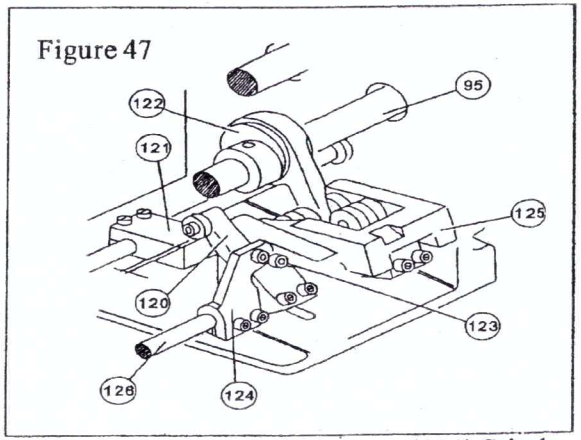


Figure 47

(95) Shaft (120) Roller frame (121) Stitch regulation block (122) Eccentric wheel
(123) Regulating screw (124) Pressing block
(125) Regulating bracket (126) Shaft

When the needle rod is at the lowest position during the second circulation, install the bearing of bead regulation roller frame (120), at this time, the roller frame (120) has moved forward half of the whole stroke. Regulate the interval between the roller frame (120) and stitch regulation block (121) to be 1~1.5mm. Fasten the scre ws of the roller frame (120) and stitch regulation block (121). (As shown in figure 47)

Rotate the regulating screw (123) on the regulating block (124). Stretch the block (124) for 1mm, and press it close to the roller frame (120), and then fasten the fast ening screw of

regulating block (124) (As shown in figure 47)

The Regulation method:① Regulate the regulation handle (16) to the highest position and make a stitch on the material with the bead on the reverse side, and make mark "A" . Regulate the regulati on handle (16) to the lowest position, and make a stitch on the material with the bead on the right side, and make mark "B" . Compare the bead sizes on A material and B material. The beads shall be beautiful, equal and have same size. (As shown in figures 4 A and 4B)

②If find that the bead on A is larger or smaller than that on B, please make the following regula tion: Regulate the regulation handle (16) to the highest position and fasten it, rotate the handwheel to make the machine needle ascend to the highest position without taking the thread. At this time, the interval between (120) and (121) is the largest. Loosen the two screws on the connection rod (115) (As shown in figure 44) Slightly move the regulating bracket (125) upward, the bead on A will become smaller and the bead on B will become larger. Slightly move the regulating bracket (125) downward, the bead on A will become larger and the bead on A will become smaller. Through the regulation for several times, the bead on A and the bead on B shall be in conformity

Rotate the knob (15) clockwise, make▼ point to 0 position, the bead is the smallest. If you want smaller bead, just make the followingregulation:

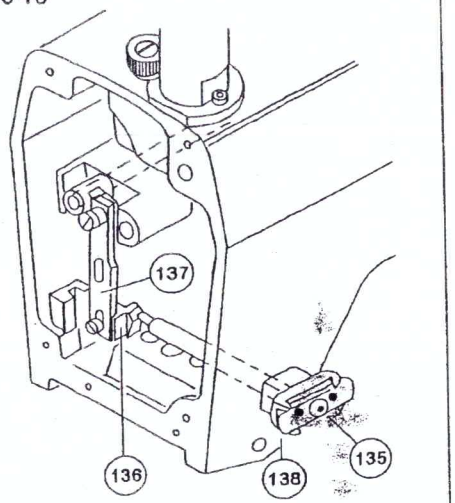
Rotate the handwheel to the highest position of the needle rod and the interval between (120) and (121) is the largest. Loosen the fastening screw on (120), and then loosen the screw cap of regulating screw (123). Rotate clockwise, the bead will become smaller and contrarily, the bead will become larger. After the regulation, fasten the nuts and screws in turn. (As shown in figure 47)

15. Regulation of upper thread clamp

The action of the upper thread clamp is to make the thread free from the influence of tractive force caused during the looping, and to guarantee the length pulling out to be constantly 120cm. Therefore, after pressing the sewing material, the thread clamp must clamp the thread. But when the presser foot is lifted to the highest position, the thread clamp must spread for convenience of pulling out the thread easily.

During the regulation, loosen the clamping screw (138), move the whole thread clamp along the axial direction or to the lifting hook (137) under the presser foot, and move the eccentric part (136) up and down. (As shown in figure 48)

Figure 48



(135) Nut (136) Eccentric part
(137) Lifting hook (138) Screw

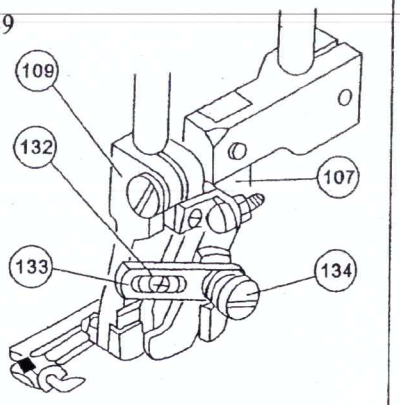
16. Regulation of upper automatic cutting

The cutting blade will play its action when the cloth-feeding teeth start to feed the cloth. The blade shall be well regulated to avoid the cloth being cut broken.

The upper cloth-feeding teeth (107) shall be regulated to be near to the presser foot (109).

Regulate the eccentric pin (134) to make that the blade slot (133) does not collide with the pin (132). (As shown in figure 49)

Figure 49



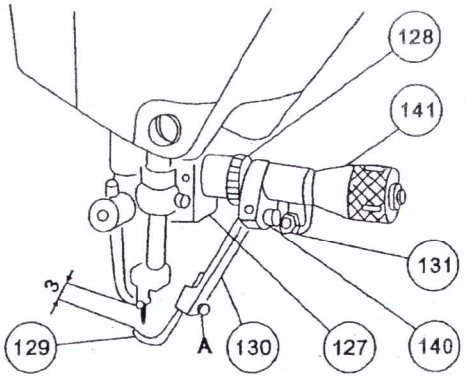
(107) Upper cloth-feeding teeth
(109) Presser foot (132) Pin
(133) Upper blade (134)Eccentric pin

17. Regulation of thread loosening mechanism

Rotate the handwheel to make the needle rod reach the highest position at the second circulation. After the up per looper (46) stops on the needle rod, remove the thread loosening hook (129), regulating button for loosening thread (141), thread loosening assembly (140), thread loosening rod (130) and cap of torsion spring (128). Check if the torsion spring is broken or the thread loosening hook is damaged. Replace the new torsion spring and polish the thread loosening hook, then assemble all the components in reverse turn. (As shown in figure 50)

During the installation of cap of torsion spring (128), note that the return forth of the thread loosening rod (130) shall be regulated larger. Rotate the cap of torsion spring clockwise, the force will be larger, and contrarily, the force will be smaller. After the regulation, fasten the two screwson the cap of torsion spring.

Figure 50



(127) Support (128) Cap of torsion spring
(129) Thread loosening hook (130) Thread loosening rod (131) Regulating screw
(140) Thread loosening components
(141) Knob A screw

When the thread loosening hook (129) resets to the terminal position and is still, the distance between it and the needle plate shall be 1.5mm. Loosen the Ascrew on (130) to regulate the (129).

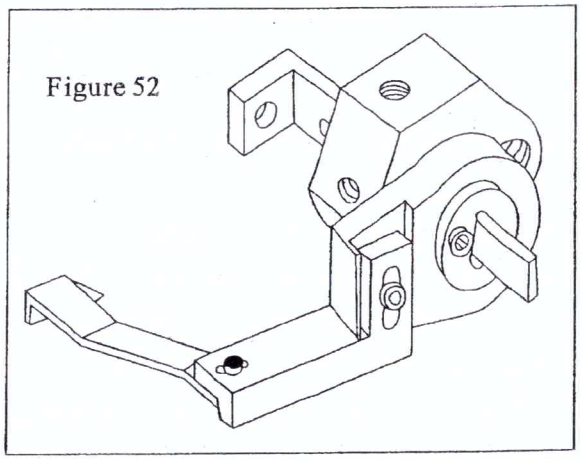
Rotate the handwheel at the first circulation, when the upper looper (46) hooks the thread on the machine needle, the thread loosening hook (129) will contact the thread at the same time to form a hooking tendency. Loosen the screw (140) to regulate (130) to meet the above requirements.

Regulate the screw (131) to regulate the distance between the tip of thread loosening hook and presser foot to be 0.2mm. (Figure 50) The right side knob (141) is used to control the left and right movement of the thread loosening hook (129) to r ealize good thread loosening effect.

18. Upper positioning part

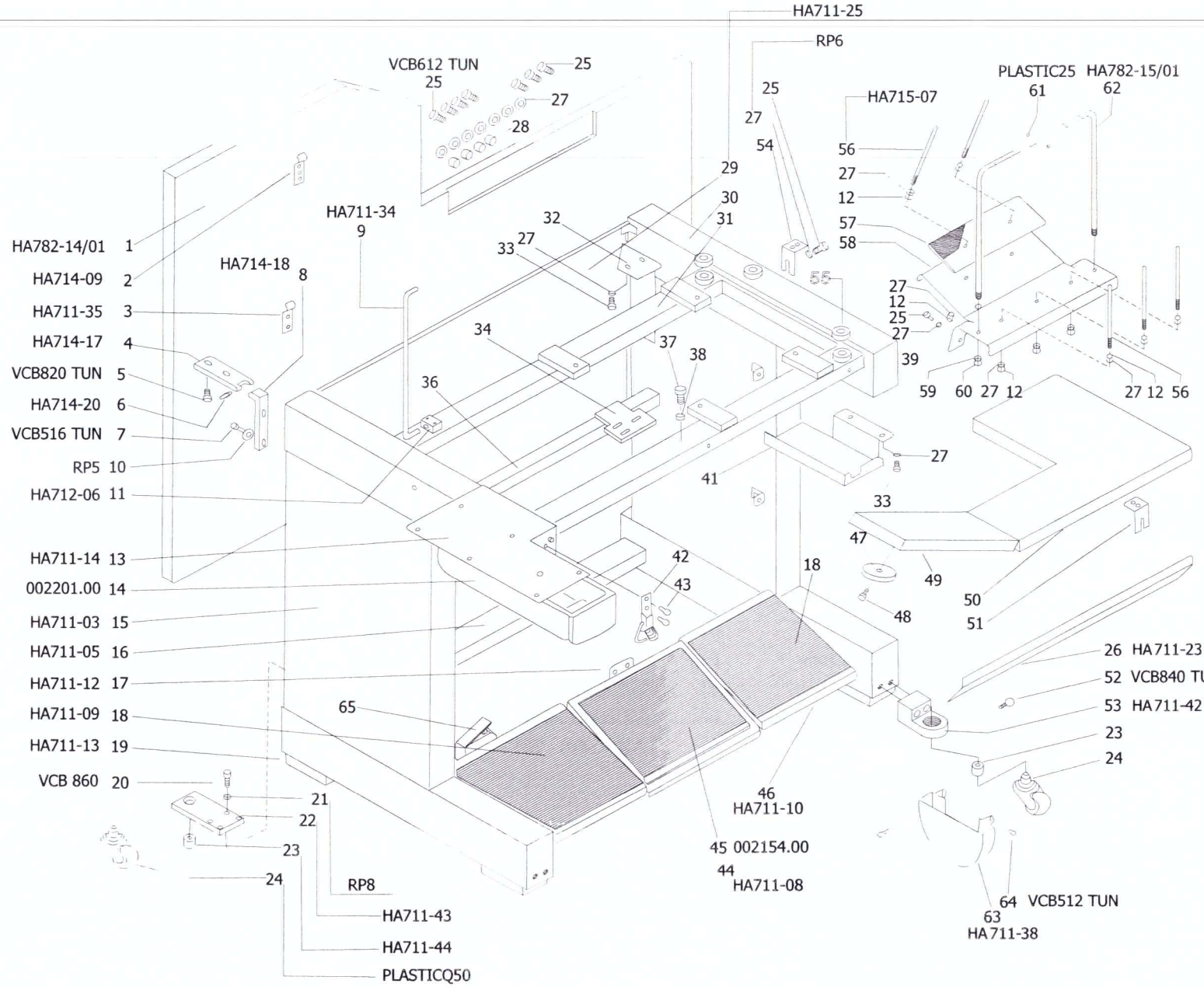
As shown in figure 52, the upper positio ning part is: The main usage of the fence is for stitch positioning, which can make that the stopping end thread is along the edge of clothes with equal width and beautiful appearance. The fence is installed on the presser foot (109), which can move up and down with the presser foot, and therefore, the fence makes it convenient to sew pocket thread and front fly.

Figure 52

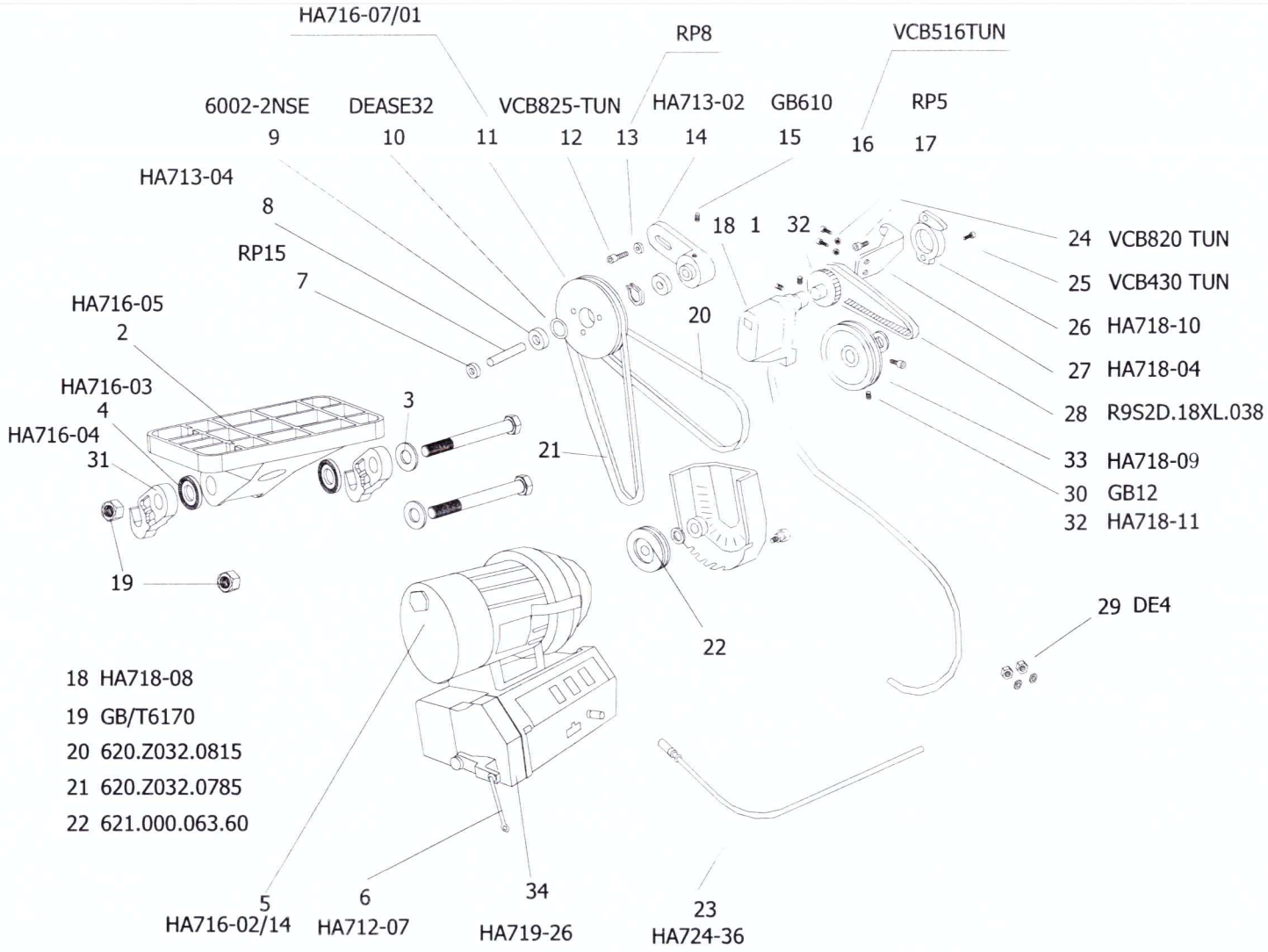


Number		Quantity	Name
1	HA782-14/01	1	Console table board
2	HA714-09	1	Fastener latch
3	HA711-35	1	Table tilt up hook
4	HA714-17	2	Upper hinge
5	VCB820 TUN	4	Hex.soc.hd.cap screw
6	HA14-20	2	Threaded pin
7	VCB516 TUN	4	Hex.soc.hd.cap screw
8	HA714-18	2	Lower hinge
9	HA711-34	1	Table board support rod
10	RP5	4	Flat washer
11	HA712-06	1	Knuckle connection
12	DE6	12	Hex nut
13	HA711-14	1	Drawer support plate
14	002201.00	1	Drawer
15	HA711-03	1	Left hand leg assy
16	HA711-05	1	Lower rear traverse
17	HA711-12	1	Foot treadle
18	HA711-09	2	Treadle rubber pad
19	HA711-13	4	Rubber pad
20	VCB860 TUN	8	Hex.soc.hd cap screw
21	RP8	8	Flat washer
22	HA711-43	2	Rear wheels support plate
23	HA711-44	4	Sleeve
24	PLASTICQ50	4	Turning wheel
25	VCB612 TUN	10	Hex.sochd cap screw
26	HA711-23	1	Front trimming
27	RP6	24	Flat washer
28	DE6	4	Hex nut
29	HA711-25	1	Back guard
30	HA711-02	1	Right hand leg assy
31	HA711-07	1	Machine support frame
32	HA711-41	1	Guard
33	VCB610 TUN	4	Hex.soc.hd cap screw
34	HA716-04	1	Motor front support
35	HA716-05	1	Motor back support
36	HA711-06	1	Motor support trav

Number		Quantity	
37	HA714-23	1	Magent
38	DE5	1	Hex nut
39	HA714-24	5	Spacer table
41	HA711-40	1	Belt guard
42	HA714-08	1	Locking handle
43	VCB410 TUN	2	Hex.soc.hd.cap screw
44	HA711-08	1	Side fixed pedal
45	002154.00	1	Table fixed pedal
46	HA711-10	1	Right fixed pedal
47	HA714-22	1	Magnet block
48	VCB625 TUN	2	Hex.soc.hd cap screw
49	HA714-04	1	Hinged table board
50	HA714-03	1	Console table board
51	HA714-07	1	Support bracket
52	VCB840 TUN	4	Hex.soc.hd.cap screw
53	HA711-42	2	Front wheels support square
54	HA714-15	1	Support bracket
55	HA711-26	6	Tablesupport
56	HA715-07	5	Stud
57	HA782-15/03	1	Protection mousse
58	HA782-15/02	1	Spool-holder plate
59	PR5	4	Washer
60	DE5	2	Hex nut
61	PLASTIC25	10	
62	782-15/01	1	Threading hook bar
63	HA711-38	1	Guard for wheel
64	VCB512 TUN	3	Hex.soc.hd.cap screw
65	AZ-7140，781	1	Micros wit


HA711-25
RP6
VCB612 TUN
25
27
28
HA715-07
PLASTIC25
HA782-15/01
61
62
HA711-34
9
HA714-18
8
HA782-14/01 1
HA714-09 2
HA711-35 3
HA714-17 4
VCB820 TUN 5
HA714-20 6
VCB516 TUN 7
RP5 10
HA712-06 11
HA711-14 13
002201.00 14
HA711-03 15
HA711-05 16
HA711-12 17
HA711-09 18
HA711-13 19
VCB 860 20
21
22
23
24
RP8
HA711-43
HA711-44
PLASTICQ50
65
46
HA711-10
45 002154.00
44
HA711-08
64 VCB512 TUN
63
HA711-38
26 HA711-23
52 VCB840 TUN
53 HA711-42
23
24
28 DE6
39 HA711-02
31 HA711-07
32 HA711-41
33 VCB610 TUN
34 HA716-04
35 HA716-05
36 HA716-06
37 HA714-23
38 DE5
39 HA714-24
41 HA711-40
42 HA711-08
43 VCB625 TUN
47 HA714-22
48 VCB625 TUN
49 HA714-04
50 HA714-03
51 HA714-07
54 HA714-15
55 HA711-26
57 HA782-05/03
58 HA782-15/02
59 RP5
60 DE5
65 AZ-7140、781

序号		数量	名称	Name
1	VTE845	3	螺钉	Hex.hd screw
2	HA716-05	1	电动机后支架	Motor back support
3	DE8	2	平垫圈	Flat washer
4	HA716-03	2	带齿垫圈	
5	HA716-02/40	1	三相电动机	Three-phase motor
6	HA712-07	1	带动连接杆	Tie rod assy
7	RP15	1	卡环	Ring
8	HA713-04	1	皮带轮销钉	Pulley pin
9	6002-2NSE	2	滚珠轴承	Ball bearing
10	DE ASE32	2	卡环	Ring
11	HA716-07/01	1	还原皮带轮	Reduction pulley
12	VCB825 TUN	2	螺钉	Hex.hd.screw
13	RP8	2	平垫圈	Flat washer
14	HA713-02	1	支架	Support
15	GB610	2	定位螺钉	Hex.soc.set screw
16	VCB516 TUN	2	有头螺钉	Hex.soc.hd.cap screw
17	PR5	2	平垫圈	Flat washer
18	HA718-08	1	同步器	Synchronizer
19	GB/T6170	2		Nut
20	620.Z032.0815	1	“O”型 800 皮带	“O”belt
21	620.Z032.0785	1	“O”型 800 皮带	“O”blet Z30 3/4
22	621.000.063	1	60 周皮带驱动轮	60 cycle drive pulley
23	HA724-36	1	电缆连接器	Cable with connector
24	HA724-36	1	有头螺钉	Hex.soc.hd.cap screw
25	VCB820 TUN	2	有头螺钉	Hex.soc.flat hd.cap screw
26	VCB430 TUN	1	同步器夹	Synchronizer holder clamp
27	HA718-10	1	同步器托架	Timing blet
28	R9S2D.180XL.038	1	主正时皮带	Main pulley with timing blet pulley
29	GB12	2	定位螺钉	Hes.soc.set scew
30	DE4	2	螺帽	Hex nut
31	HA716-04	2	电机挂钩	
36	HA718-09	1	皮带轮	Pulley
37	HA719-26	1	三相电控制盒	Control box,three-phase


HA716-07/01
RP8
VCB516TUN
6002-2NSE
DEASE32
VCB825-TUN
HA713-02
GB610
RP5
9
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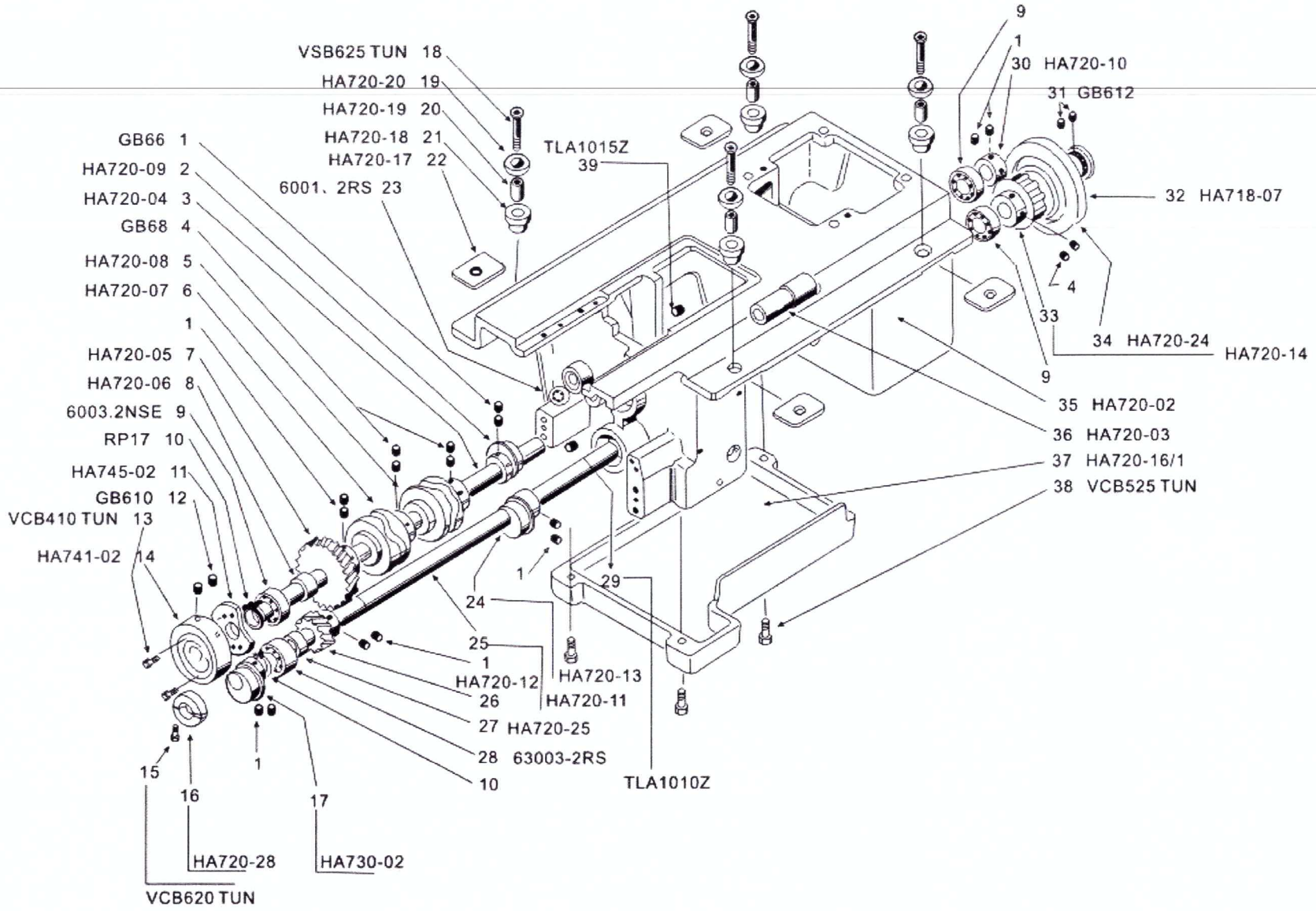
11
12
13
14
15
16
17
HA713-04
8
RP15
7
HA716-05
2
HA716-03
4
HA716-04
31
3
21
20
18
1
32
24 VCB820 TUN
25 VCB430 TUN
26 HA718-10
27 HA718-04
28 R9S2D.18XL.038
33 HA718-09
30 GB12
32 HA718-11
19
22
29 DE4
18 HA718-08
19 GB/T6170
20 620.Z032.0815
21 620.Z032.0785
22 621.000.063.60
5
HA716-02/14
6
HA712-07
34
HA719-26
23
HA724-36

序号		数量	名称	Name	序号		数量	名称	Name
1	GB66	12	定位螺丝	Hex.socset screw	32	HA718-07	1	主正时皮带轮	Man pulley with timing belt pulley
2	HA720-09	1	珠点偏心轮	Stitch shortening eccentric	33	HA720-14	1	下正时皮带轮	Lower timing belt pulley
3	HA720-04	1	下凸轮轴	Lower cam shaft	34	HA720-24	1	皮带轮凸缘	Pulley flange
4	GB68	4	定位螺丝	Hex.soc.set screw	35	HA720-02	1	机座	Bed
5	HA720-08	1	挑线钩凸轮	Thread lifting cam	36	HA720-03	1	轴套	bushing
6	HA720-07	1	下送线指凸轮	Thread loader cam	37	HA720-16/1	1	底盖	Bottom cover
7	HA720-05	1	主动轴	Driver gear	38	VCB525 TUN	3	有头螺钉	Hex.soc.hd.cap screw
8	HA720-06	1	隔离套	Spacer	39	TLA1015Z	1	轴承座套	Roller-bearing sleeve
9	6003,2NSE	3	滚珠轴承	Ball bearing					
10	RP17	2	卡环	Ring					
11	HA745-02	1	下送线钩凸轮	Pull off rimger cam					
12	GB610	2	定位螺丝	Hex.soc.set screw					
13	VCB410 TUN	2	有头螺钉	Hex.soc.hd.cap screw					
14	HA741-02	1	夹线钩凸轮	Tension drive cam					
15	VCB620 TUN	1	有头螺钉	Hex.soc.hd.cap screw					
16	HA720-28	1	止动轴环	Looper wheel stop collar					
17	HA730-02	1	下牙架提升偏心轮	Feed lift eccentric					
18	VSB625 TUN	4	有头螺钉	Hex.soc.flat hd.cap screw					
19	HA720-13	4	垫圈	Washer					
20	HA720-19	4	隔离套	Gormmet spacer					
21	HA720-18	4	减震垫圈	Shock absorber grommet					
22	HA720-17	4	支架垫片	Support pad					
23	6001,2RS	2	滚珠轴承	Ball bearing					
24	HA720-13	1	送布偏心轮	Main feed eccentric					
25	HA720-11	1	下总轴	Lower man shaft					
26	HA720-12	1	主动齿轮	Driving gear					
27	HA720-25	1	隔离套	Spacer					
28	63003-2RS	1	滚珠轴承	Ball bearing					
29	TLA1010Z	2	轴承座套	Roller-bearing sleeve					
30	HA720-10	1	卡环	Ring					
31	GB612	2	定位螺丝	Hex.soc set screw					


GB66 1
HA720-09 2
HA720-04 3
GB68 4
HA720-08 5
HA720-07 6
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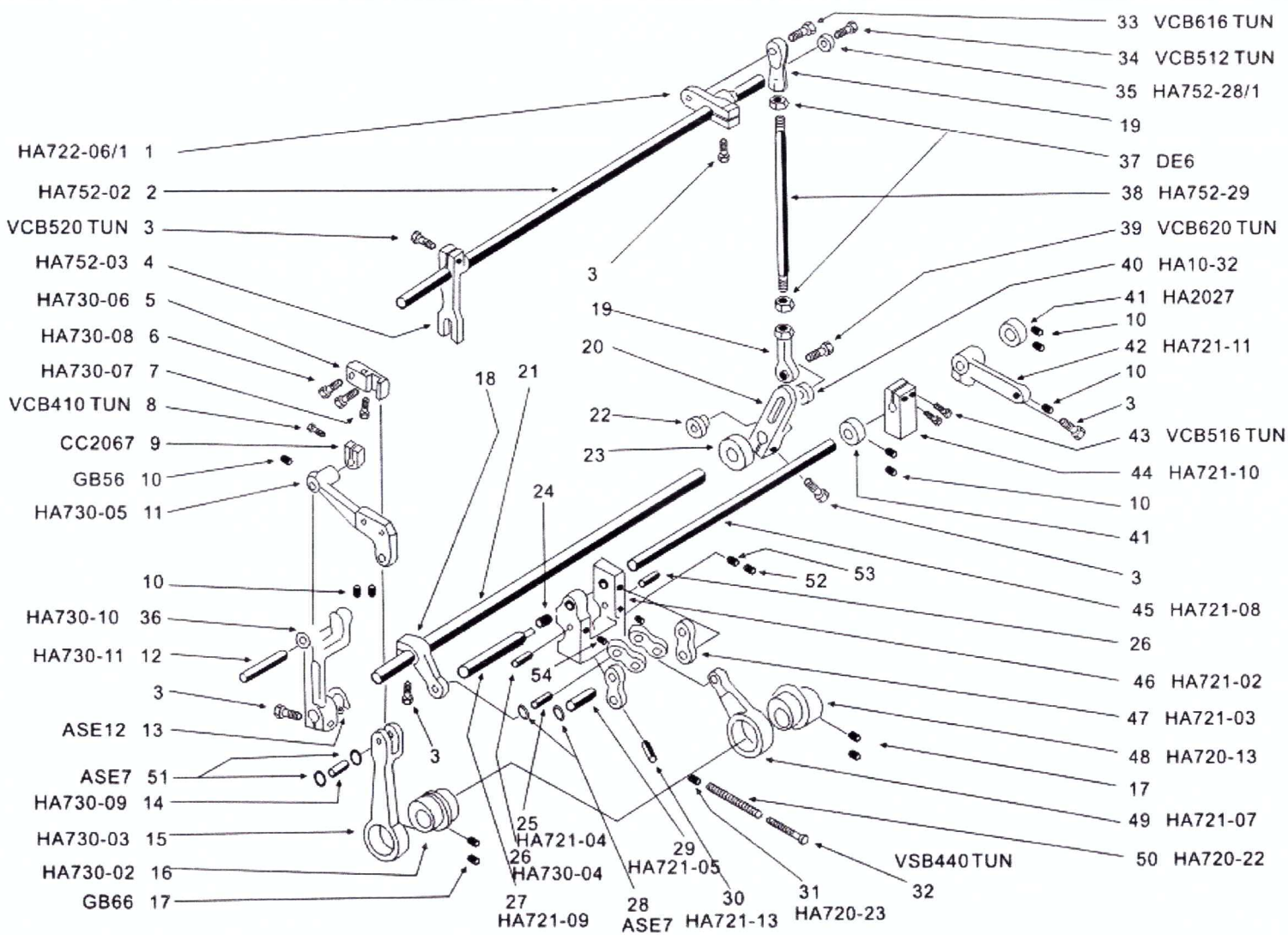
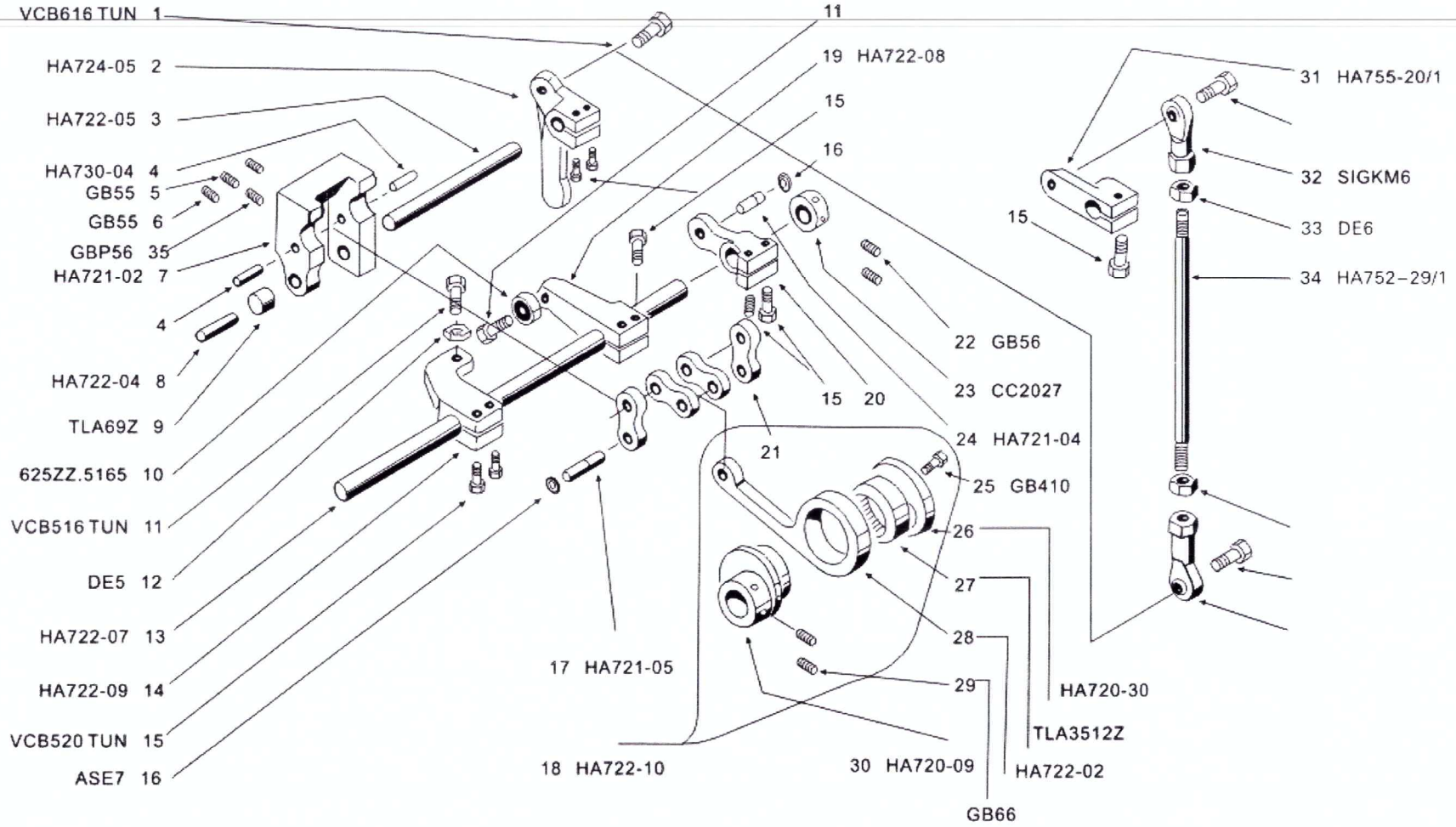
HA720-05 7
HA720-06 8
6003.2NSE 9
RP17 10
HA745-02 11
GB610 12
VCB410 TUN 13
HA741-02 14
15
16
HA720-28
VCB620 TUN
1
17
HA730-02
VSB625 TUN 18
HA720-20 19
HA720-19 20
HA720-18 21
HA720-17 22
6001、2RS 23
TLA1015Z
39
24
25
1
HA720-12
26
27 HA720-25
28 63003-2RS
10
TLA1010Z
1
HA720-13
HA720-11
29
9
1
30 HA720-10
31 GB612
32 HA718-07
4
33
34 HA720-24
HA720-14
9
35 HA720-02
36 HA720-03
37 HA720-16/1
38 VCB525 TUN

序号		数量	名称	Name	序号		数量	名称	Name
1	HA722-06/1	1	控制杆	Control lever	32	VSB440 TUN	1	有头螺钉	Hex.soc.flat hd.cap screw
2	HA752-02	1	驱动轴	Driveshaft,foot movement	33	VCB616 TUN	1	有头螺钉	hex.soc.hd.cap screw
3	VCB520 TUN	6	有头螺钉	Hex.soc.hd.cap screw	34	VCB521 TUN	1	有头螺钉	Hex.soc.hd.cap screw
4	HA752-03	1	叉杆	Fork lever	35	HA752-28/1	1	垫圈	Washer
5	HA730-06	1	供给挡块固定器	Feed dog holder	36	HA730-10	1	供给挡块叉	Feed dog fork
6	HA730-08	2	供给挡块螺钉	Feed dog screw	37	DE6	2	螺旋套	Hex nut
7	HA730-07	1	供给挡块高度调整螺钉	Feed dog height adjustment screw	38	HA752-29	1	连杆	Connecting rod
8	VCB410 TUN	1	有头螺钉	Hex.soc.hd.cap screw	39	VCB620 TUN	1	有头螺钉	Hex.soc.hd.cap scew
9	CC2067	1	夹钳	Clamp	40	HA10-32	1	隔离垫圈	Spacer ring
10	GB56	8	定位螺丝	Hex.soc.set screw	41	HA2027	2	圆环	Ring
11	HA730-05	1	供给挡块运载棒	Feed dog carrier bar	42	HA721-11	1	线迹长短控制杆	Stitch –lengthner control lever
12	HA730-11	1	铰链销钉	Hinge stud	43	VCB516 TUN	2	有头螺钉	Hex.soc.hd.cap screw
13	ASE12	1	卡环	Ring	44	HA721-10	1	手碰头	Clamp block
14	HA730-09	1	短轴	Stud	45	HA721-08	1	长针枢轴	Stitch-lengthner pivot shaft
15	HA730-03	1	供给提升连接环	Feed lift connecting tod	46	HA721-02	4	滚轮架	Stitch-lengthner support
16	HA730-02	1	下牙架提升偏心轮	Feed lift eccentric	47	HA721-03	1	滑环	Link
17	GB66	4	定位螺丝	Hex.soc.set screw	48	HA720-13	1	送布偏心轮	Main feed eccentric
18	HA721-06	1	长针控制杆	Stitch-(lengthner)control lever	49	HA721-07	1	长针连杆	Stitch-lengthner connecting rod
19	SIGKM6	2	球形结	Articulated (endpiece)	50	HA720-22	1	弹簧	Spring
20	HA730-13	1	上送牙曲柄	Foot control lever	51	ASE7	2	卡环	Ring
21	HA730-12	1	压脚驱动轴	Feed drive rock shaft	52	GB55	1	定位螺丝	Hex.soc.set screw
22	HA730-14	1	圆螺母	Ring nut	53	GB56	1	定位螺丝	Hex.soc.set screw
23	HA743-04	1	圆环	Ring	54	GBP58	2	定位螺丝	Hex.soc.set screw
24	TLA0609Z	1	轴承座套	Roller-bearing sleeve					
25	HA721-04	1	短轴	Stud					
26	HA730-04	2	辊子	Roller					
27	HA721-09	1	铰链销钉	Hinge stud					
28	ASE7	2	防护环	Retainning ring					
29	HA721-05	1	短轴	Stud					
30	HA721-13	1	弹簧连接轴	Spring connection					
31	HA720-23	1	圆螺母	Ring nut					

18 HA721-06
19 SIGKM6
20 HA730-13
21 HA730-12
22 HA730-14
23 HA743-04
24 TLA0609Z
52 GB55
53 GB56
54 GBP58

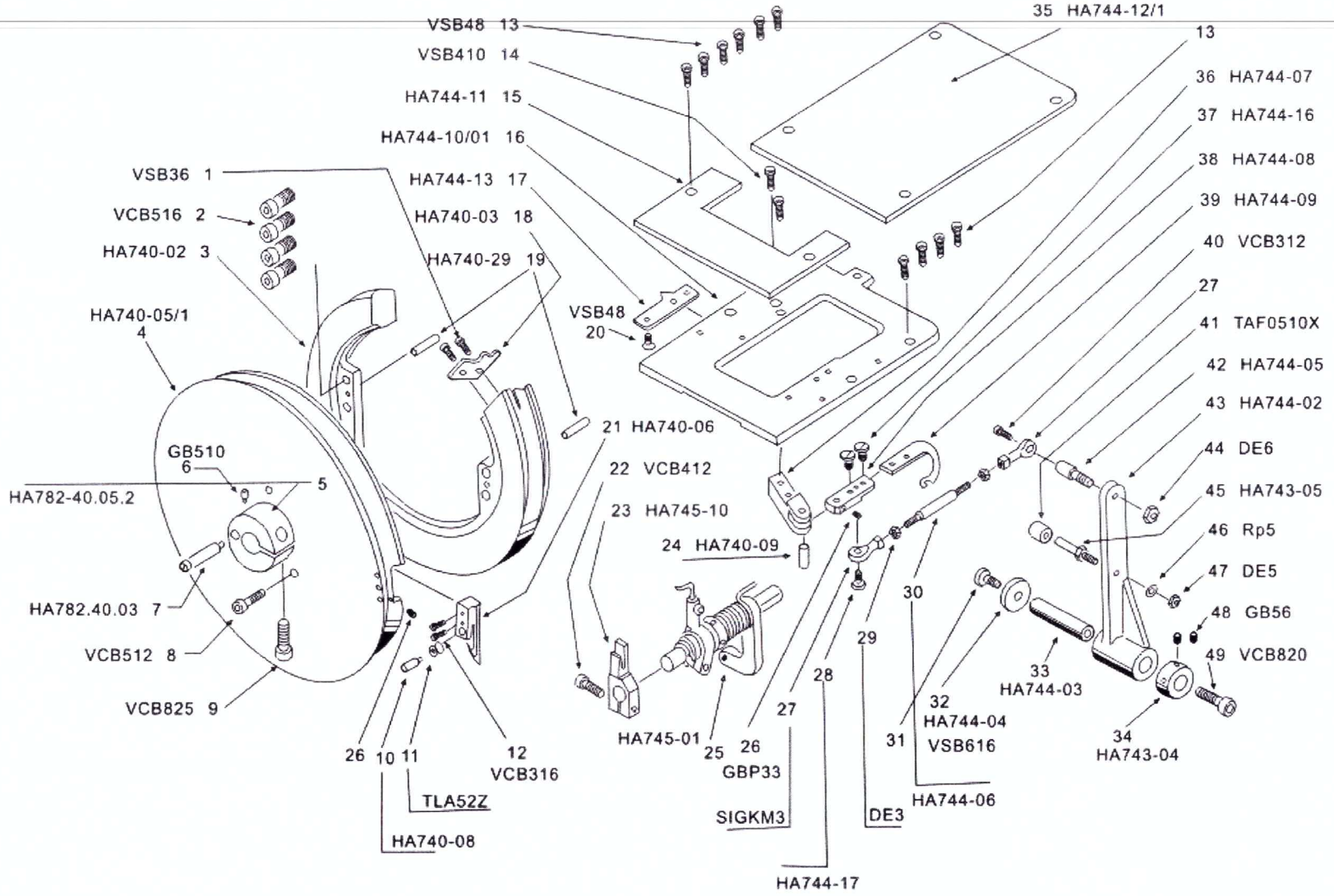


序号		数量	名称	Name	序号		数量	名称	Name
1	VCB616 TUN	2	有头螺钉	Hex.soc.hd.cap screw	33	DE6	2	螺旋套	Hex nut
2	HA724-05	1	连杆头	Stitch inversion control lever	34	HA752-29/1	1	连杆	Connection rod
3	HA722-05	1	放松支架控制轴	Lose support control shaft	35	GBP56	1	定位螺钉	Hex.soc.set screw
4	HA730-04	2	辊子	Roller					
5	GB55	1	定位螺钉	Hex.soc.set screw					
6	GB55	2	定位螺钉	Hex.soc.set screw					
7	HA721-02	1	珠点调节架	Stitch-lengthner support					
8	HA722-04	1	短轴	Hinge stud					
9	TLA69Z	1	轴承座套	Roller-bearing sleeve					
10	625ZZ.5165	1	滚珠轴承	Ball bearing					
11	VC516 TUN	2	有头螺钉	Hex.soc.hd.cap screw					
12	DE5	1	螺旋套	Hex nut					
13	HA722-07	1	控制轴	Shaft,stitch correction lever					
14	HA722-09	1	压块	Counter lever					
15	VCB520 TUN	9	有头螺钉	Hex.soc.hd.cap screw					
16	ASE7	2	定位环	Retaining ring					
17	HA721-05	1	短轴	Stud					
18	HA722-10	1	凸缘和偏心组件	Cam with excentric					
19	HA722-08	1	珠点调节滚轮架	Stitch correction lever					
20	HA722-03	1	针校正控制杆	Stitch correction control lever					
21	HA721-03	4	滑环	Link					
22	GB56	2	定位螺丝	Hex.soc.set screw					
23	CC2027	1	圆环	Ring					
24	HA721-04	1	短轴	Stud					
25	GB410	1	有头螺钉	Hex.soc.flat hd.cap screw					
26	HA720-30	1	凸缘	Flange					
27	TLA3512Z	1	轴承座套	Roller-bearing sleeve					
28	HA722-02	1	针校正连接环	Stitch correction connecting rod					
29	GB66	2	定位螺丝	Hex.soc.set screw					
30	HA720-09	1	珠点偏心轮	Stitch shortening eccentric					
31	HA755-20/1	1	针校正控制杆	Stitch correction control lever					
32	SIGKM6	2	球接头	Articulated(endpiece)					



20 HA722-03
21 HA721-03

序号		数量	名称	Name	序号		数量	名称	Name
1	VSB36	2	有头螺钉	Hex.soc.flat hd.cap screw	33	HA744-03	1	铰链短轴	Hinge stud
2	VCB516	4	有头螺钉	Hex.soc.hd.cap screw	34	HA743-04	1	圆环	Ring
3	HA740-02	1	固定轮	Stationary wheel	35	HA744-12/1	1	右盖板	Right and cover plate
4	HA740-05/1	1	下钩线盘	Wheel	36	HA744-07	1	铰链叉	Hinge fork
5	HA782-40.05.2	1	轮毂	Hub	37	HA744-16	2	螺钉	Screw
6	GB510	1	定位螺丝	Hex.soc.set screw	38	HA744-08	1	固定器	Holder
7	HA782.40.03	1	装载凸轮销钉	Cam for(hreadloader)wheel	39	HA744-09	1	下送线指	Thread loader
8	VCB512	3	有头螺钉	Hex.soc.hd.cap screw	40	VCB312	1	有头螺钉	Hex.soc.hd.cap screw
9	VCB825	1	有头螺钉	Hex.soc.hd.cap screw	41	TAF0510X	1	辊子轴套	Rollers bearing
10	HA740-08	1	滑轮轴	Sheave shaft	42	HA744-05	1	螺钉螺柱	Screw stud
11	TLA52Z	1	轴承	Bearing	43	HA744-02	1	装载杆	Roller stud
12	VCB316	2	有头螺钉	Hex.soc.hd.cap screw	44	DE6	1	螺旋套	Flat washer
13	VSB48	10	有头螺钉	Hex.soc.hd.cap screw	45	HA743-05	1	辊子螺柱	Hex nut
14	VSB410	2	有头螺钉	Hex.soc.hd.cap screw	46	RP5	1	平垫圈	Hex.soc.set screw
15	HA744-11	1	左盖板	Left and cover plate	47	DE5	1	螺旋套	Hex.soc.hd.cap screw
16	HA744-10/01	1	针板支架框	Throat plate support frame	48	GB56	2	定位螺丝	
17	HA744-13	1	线分离器	Thread separator	49	VCB820	1	有头螺钉	
18	HA740-03	1	线导向板	Thread guide plate					
19	HA740-29	2	销钉	Dowel pin					
20	VSB48	2	有头螺钉	Hex.soc.flat hd.cap screw					
21	HA740-06	1	旋转钩针	Rotary hook					
22	VCB412	1	有头螺钉	Hex.soc.hd.cap screw					
23	HA745-10	1	护针头	Needle guide					
24	HA740-09	1	接合销	Dowel pin					
25	HA745-01	1	线移动装置	Thread shifter assembly					
26	GBP33	2	定位螺丝	Hex.soc.set screw					
27	SIGKM3	2	球接头	Articulated(endpiece)					
28	HA744-17	1	螺钉	Screw					
29	DE3	2	螺旋套	Hex nut					
30	HA744-06	1	连杆	Connecting rod					
31	VSB616	1	有头螺钉	Hex.soc.flat hd.cap screw					
32	HA744-04	1	垫圈	washer					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HA745-01
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GBP33
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SIGKM3
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HA744-17
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HA744-06
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HA744-04
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HA743-04
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43 HA744-02
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VSB36 1
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GB510
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HA782-40.05.2
HA782.40.03 7
VCB512 8
VCB825 9
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TLA52Z
HA740-08
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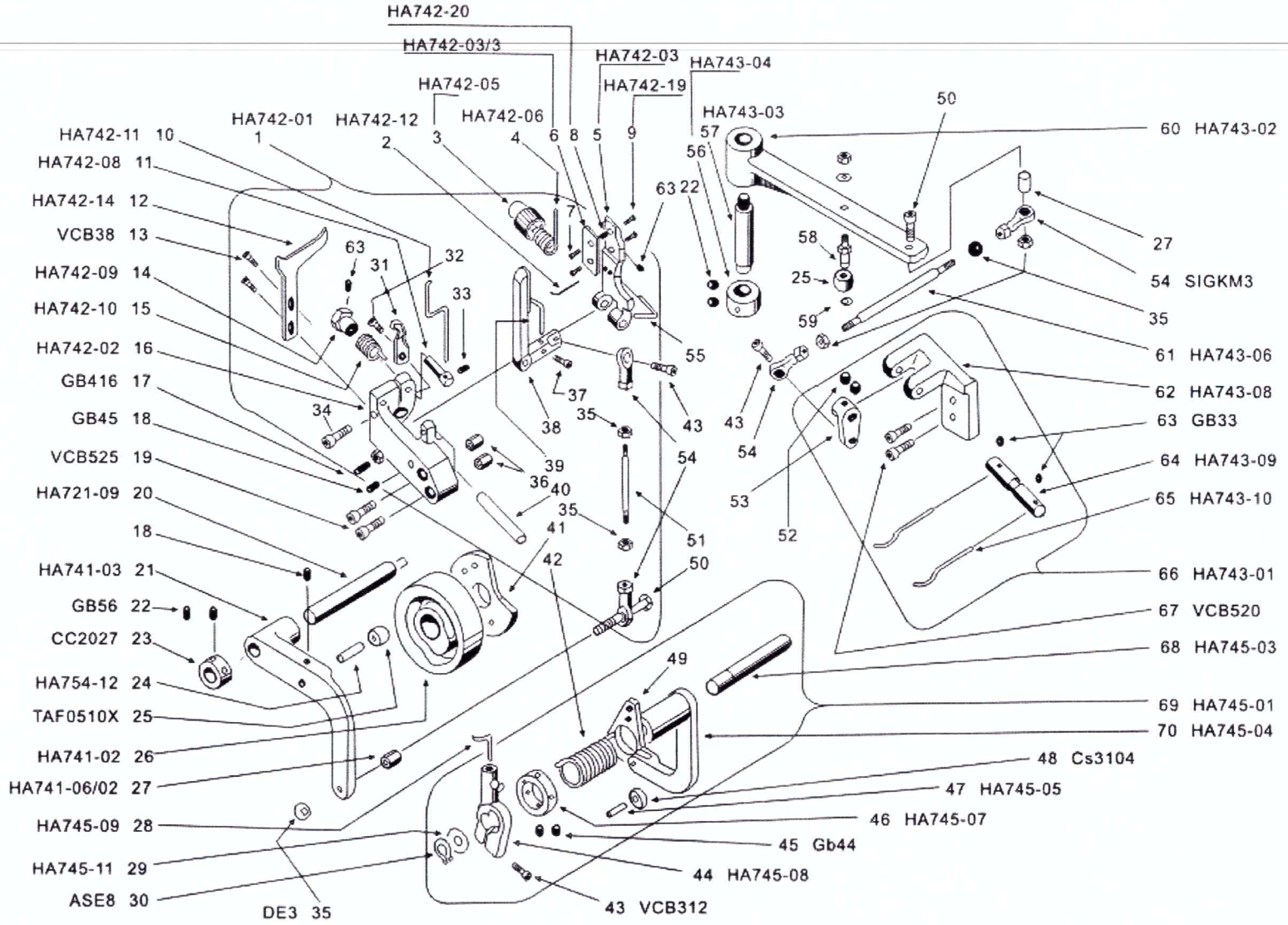
VCB316

序号		数量	名称	Name	序号		数量	名称	Name
1	HA742-01	1	张力组件	Tension assembly	37	VCB36	1	有头螺钉	Hex.soc.hd.cap screw
2	HA742-12	1	线固定钩	Thread holder hook	38	HA742-04	1	右夹线板	Left hand tension prong
3	HA742-05	1	滚花螺母	Spring tensioning drum	39	HA742-17	1	止动杆	Stop lever
4	HA742-06	2	扭转弹簧	Torsion spring	40	HA742-07	1	铰链轴	Hinge shaft
5	HA742-03	1	右夹线板	Ring hand tension prong	41	HA745-02	1	下送线钩凸轮	Pull off finger cam
6	HA742-03/3	1	右张力叉板	Plate	42	HA745-12	1	扭转弹簧	Torsion spring
7	HA742-21	2	有头螺钉	Hex.soc.flat hd.cap screw	43	VCB312	3	有头螺钉	Hex.soc.hd.cap screw
8	HA742-20	1	止动螺钉弹簧	Stop screw spring	44	HA745-08	1	下送线钩座	Theead shifter lever
9	HA742-19	2	止动螺钉	Stop screw	45	GB44	2	有头螺钉	Hex.soc.hd.cap screw
10	HA742-11	1	钢丝线钩	Thread pusher hook	46	HA745-07	1	调整轴环	Adjusting collar
11	HA742-08	1	线推动螺栓	Thread pusher stud	47	HA745-05	1	辊子	Roller
12	HA742-14	1	线支架板	Thread support plate	48	CS3104	1	滚珠轴承	Ball bearing
13	VCB38	2	有头螺钉	Hex.soc.hd.cap screw	49	HA745-13	1	卡爪	Paw1
14	HA742-09	1	弹簧张力滚筒	Spring tensioning drum	50	VCB325	2	有头螺钉	Hex.soc.hd.cap screw
15	HA742-02	2	扭转弹簧	Torsion spring	51	HA742-15	1	连接杆	Connecting rod
16	HA742-02	1	张力支架	(pre-tensioning)support	52	GB55	2	定位螺丝	Hex.soc.set screw
17	GB416	1	定位螺丝	Hex.soc.set screw	53	HA743-07	1	针提升连接杆	Thread lifter connecting rod
18	GB45	2	定位螺丝	Hex.soc.set screw	54	SIGKM3	4	球接头	Articulated endpiece
19	VCB525	2	有头螺钉	Hes.soc.hd.cap screw	55	HA742-16	1	线擦拭手指	Thread wiping finger
20	HA721-09	1	铰链销钉	Hinge stud	56	HA743-04	1	圆环	Ring
21	HA741-03	1	张力驱动杆	Tension driver lever	57	HA743-03	1	销钉	Pin for lever
22	GB56	4	定位螺丝	Hex.soc.set screw	58	HA743-05	1	辊子螺栓	Roller stud
23	CC2027	1	圆环	Ring	59	ASE5	1	卡环	Ring
24	HA754-12	1	短轴	Stud	60	HA743-02	1	针提升杆	Thread lifting lever
25	TAF0510X	2	辊子轴承	Rollers bearing	61	HA743-06	1	连接杆	Tie-rod
26	HA741-02	1	夹线器凸轮	Tension drive cam	62	HA743-08	1	挑线钩座	Thread lifter support
27	HA741-06/2	2	螺丝套桶	Screw stud	63	GB33	4	定位螺丝	Hex.soc.set screw
28	HA745-09	1	下送线钩	Hook	64	HA743-09	1	线提升手指轴	Thread lifting finger shaft
29	HA745-11	1	垫圈	Washer	65	HA743-10	2	挑线钩	Thread lifter
30	ASE8	1	卡环	Ring	66	HA743-01	1	线掉升手指组件	Thread lifting finger assembly
31	HA742-18	1	止动杆	Stop lever	67	VCB520	2	有头螺钉	Hex.soc.hd.cap screw
32	HA753-12	1	螺丝	Throat plate screw	68	HA745-03	1	防护轴	Needle guard carrier shaft
33	GB34	1	定位螺丝	Hex.soc.set screw	69	HA745-01	1	线提升组件	Thread shifter assembly
34	VCB420	1	有头螺钉	Hex.soc.hd.cap screw	70	HA745-04	1	线提升控制杆	Thread shifter controllever
35	DE3	6	螺旋套	Hex nut					
36	HA742-13	2	销轴套	Bushing dowel					



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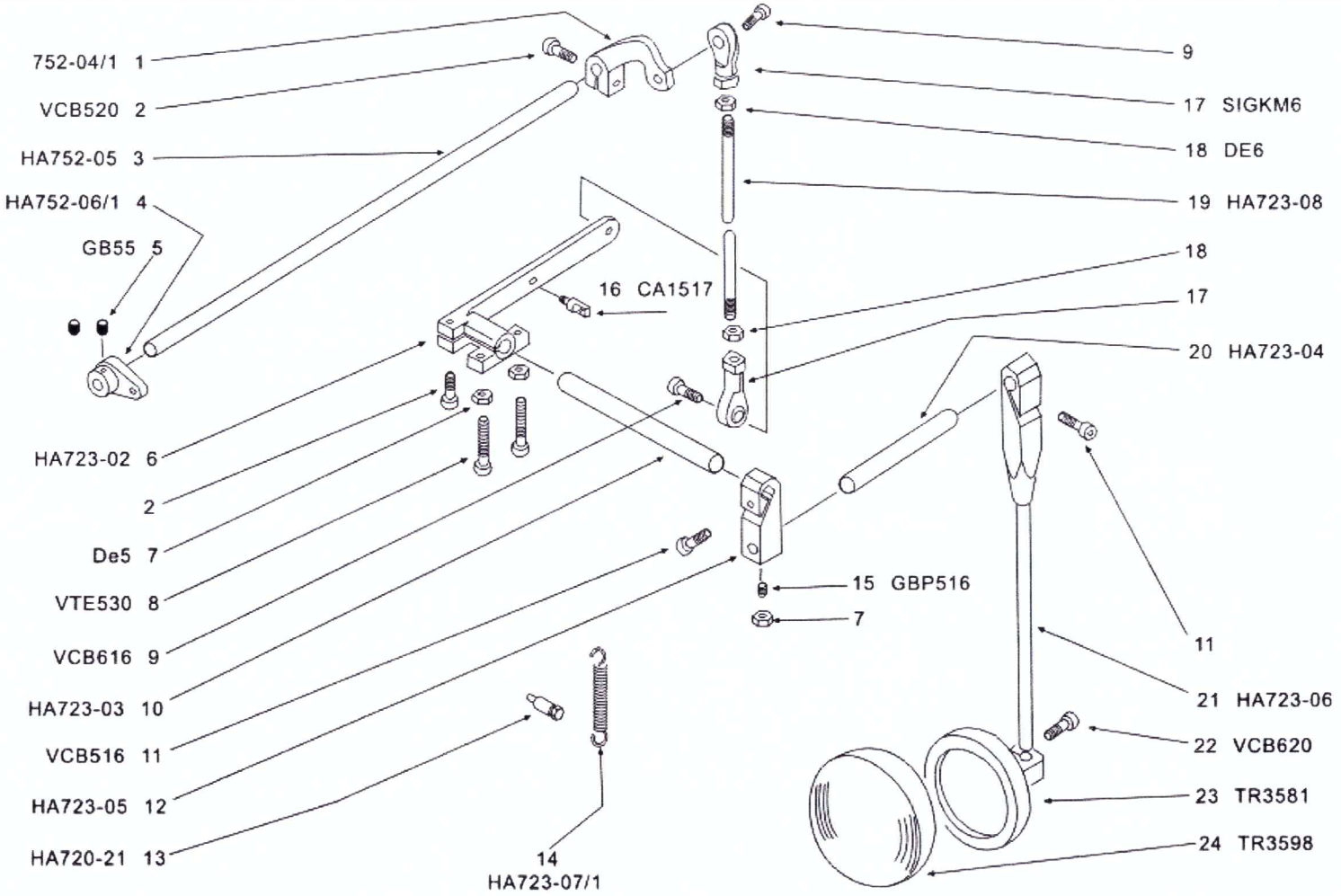
40 HA742-07
41 HA745-02
42 HA745-12
49 HA745-13
50 VCB325
51 HA742-15
52 GB55
53 HA743-07
55 HA742-16
58 HA743-05
59 ASE5

序号		数量	名称	Name
1	HA752-04/1	1	压脚提升杆	Foot lifter lever
2	VCB520	2	有头螺钉	Hex.soc.hd.cap screw
3	HA752-05	1	压脚提升轴	Foot lifter shaft
4	HA752-06/1	1	提升曲柄	Lifting crank
5	GB55	2	定位螺丝	Hex.soc.set screw
6	HA723-02	1	传力杆	Knee lifter connection lever
7	DE5	3	螺旋套	Hex nut
8	VTE530	2	螺钉	Hex.hd.screw
9	CVB616	2	有头螺钉	Hex.soc.hd.cap screw
10	HA723-03	1	曲柄枢轴	Knee lever pivot shaft
11	VCB516	2	有头螺钉	Hex.soc.hd.cap screw
12	HA723-05	1	调整接头	Adjusting joint
13	HA720-21	1	螺纹螺栓	Screw stud
14	HA723-07/1	1	螺旋弹簧	Coil spring
15	GBP516	1	定位螺丝	Hex.soc.set screw
16	CA1517	1	导线螺栓	Thread guide
17	SIGKM6	2	球接头	Articultated(endpiece)
18	DE6	2	螺旋套	Hex nut
19	HA723-08	1	连接杆	Connecting rod
20	HA723-04	1	杆轴	Lever stud
21	HA723-06	1	提升压脚膝控杆	Knee rod lever
22	VCB620	1	有头螺钉	Hex.soc.ha.cap screw
23	TR3581	1	提升板	Knee device
24	TR3598	1	提升板垫片	Knee lever pad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HA720-21 13
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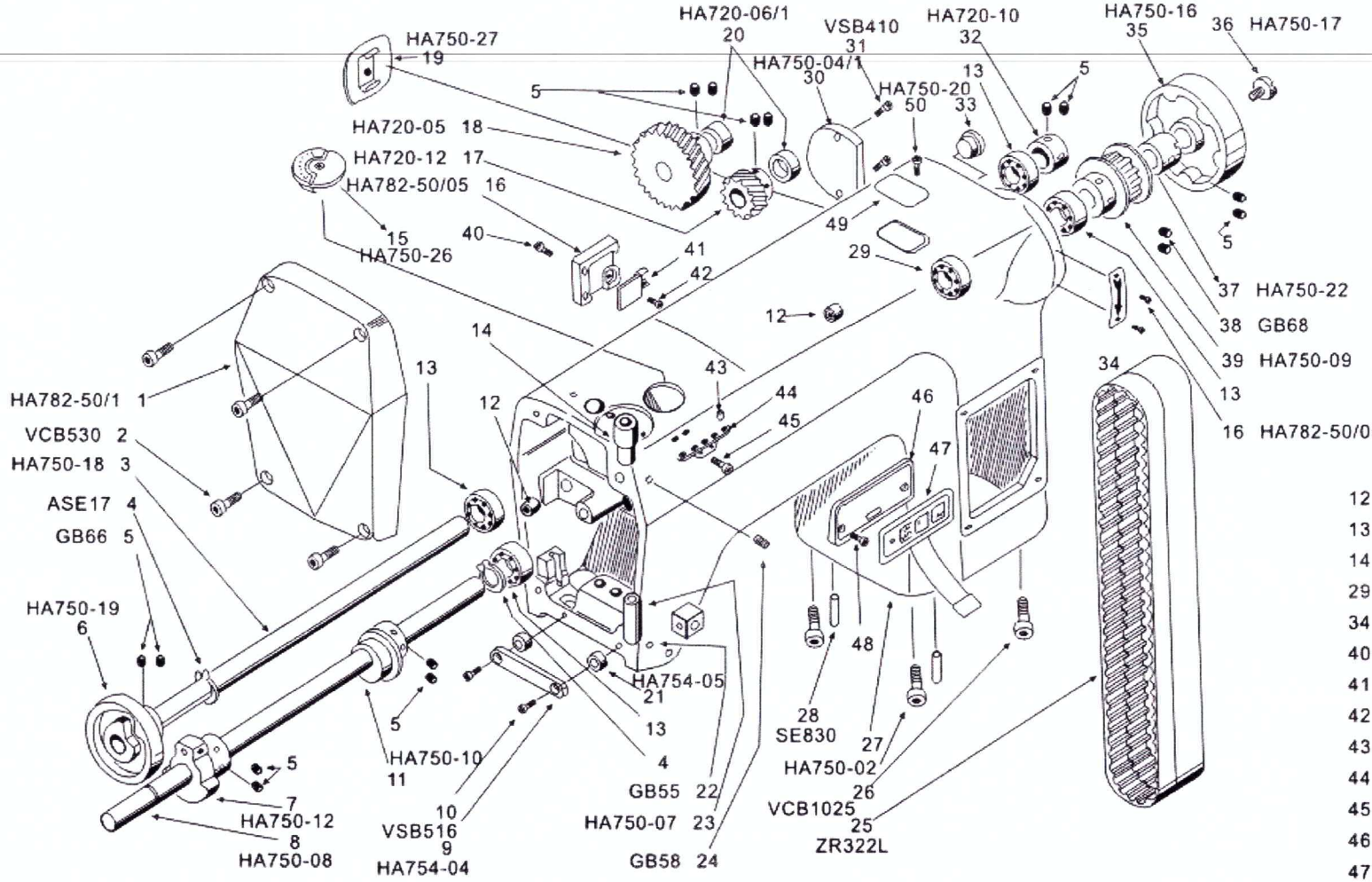
HA723-07/1
16 CA1517
15 GBP516
7
9
17 SIGKM6
18 DE6
19 HA723-08
18
17
20 HA723-04
11
21 HA723-06
22 VCB620
23 TR3581
24 TR3598

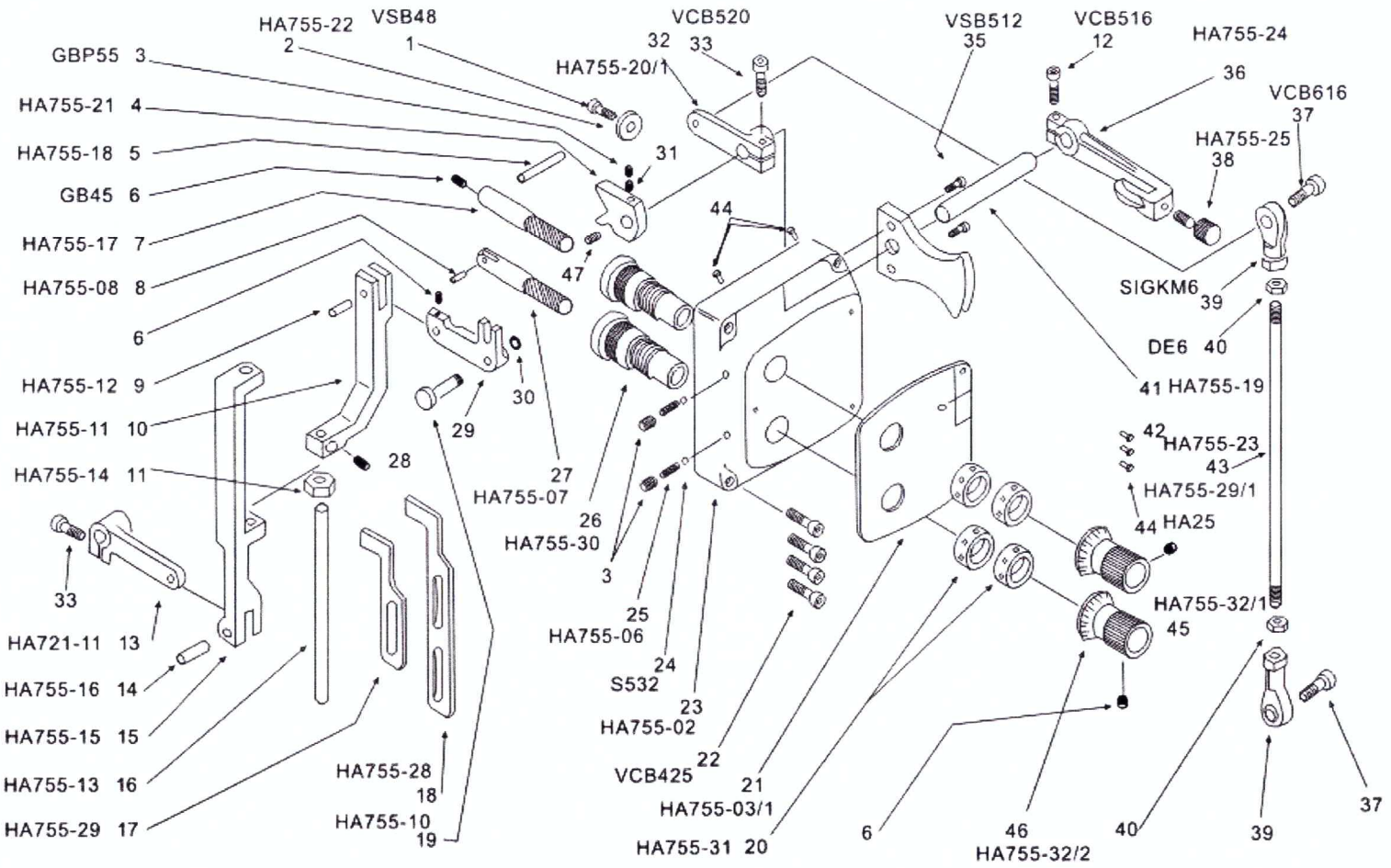
序号		数量	名称	Name	序号		数量	名称	Name
1	HA782-50/1	1	车头盖	Nose section	34	SA007.34	1	箭头标签	Tag with arrow
2	VCB530	4	有头螺钉	Hex.soc.hd.cap screw	35	HA750-16	1	手轮	Hand wheel
3	HA750-18	1	下凸轮轴	Lower cam shaft	36	HA750-17	1	手轮螺钉	Hand wheel screw
4	ASE17	2	卡环	Ring	37	HA750-22	1	正时轴环	Timing collar
5	GB66	14	定位螺丝	Hex.soc.set screw	38	GB68	2	定位螺丝	Hex.soc.set screw
6	HA750-19	1	上勾线钩凸轮	Upper looper driver cam	39	HA750-09	1	上正时皮带轮	Upper timming belt pulley
7	HA750-12	1	针棒曲柄	Needlebar crank	40	VCB316	2	有头螺钉	Hex.soc.hdcap.screw
8	HA750-08	1	上主轴	Upper main shaft	41	HA782-50/7	1	按钮带小连接板	Small connection board for button-strip
9	HA754-04	1	上导杠杆	Lever guide	42	VCB254	2	有头螺钉	Hex.soc.hd.cap.screw
10	VSB516	2	有头螺钉	Hex.soc.flat hd.cap screw	43	PLASTIC25	5	凸缘管	Flanged tube
11	HA750-10	1	上送布提升偏心轮	Walking presser lifting eccentric	44	HA760-06	1	线分流器	Thread guide
12	TLA0810Z	2	轴承座套	Rollerbearing sleeve	45	VCB48	2	有头螺钉	Hex.soc.hd.cap.screw
13	6003-2NSE	4	滚珠轴承	Ball bearing	46	HA782-50/4	1	键盘支架底座	Support base for keyboard
14	HA750-06	1	上针棒轴套	Upper needle bar bushing					
15	HA750-26	1	入口盖	Access cover	47	HA782-50/6	1	三按钮薄膜带	Three-button membrane button strip
16	HA782-50/05	1	支架底座连接板	Support base for connecion board	48	VCB36	2	有头螺钉	Hex.soc.hd.cap screw
17	HA720-12	1	主动齿轮	Driving gear	49	HA750-32	1	开入螺钉板	Plate with opening for accessto gears screws
18	HA720-05	1	传动齿轮	Driver gear					
19	HA750-27	1	入口盖	Access cover	50	VCB48	1	有头螺钉	Hex.soc.hd.cap screw
20	HA720-06/1	2	隔离套	Spacer					
21	HA754-05	2	隔离套	Spacer					
22	GB55	1	定位螺丝	Hex.soc.set screw					
23	HA750-07	1	下针棒轴套	Lower needle bar bushing					
24	GB58	1	定位螺丝	Hex.soc.set screw					
25	ZR322L	2	带齿皮带	Cogged belt					
26	VCB1025	4	有头螺钉	Hex.soc.hd.cap screw					
27	HA750-02	1	机头	Arm					
28	SE830	2	销钉	Spring pin					
29	6000LLB/2A01	1	滚珠轴承	Ball bearing					
32	HA720-10	1	圆环	Ring					
33	HA750-20	1	塞子	Plug					



12 TLA0810Z
13 6003-2NSE
14 HA750-06
29 6000LLB/2A01
34 SA007.34
40 VCB316
41 HA782-50/7
42 VCB254
43 PLASTIC25
44 HA760-06
45 VCB48
46 HA782-50/4
47 HA782-50/6
48 VCB36
49 HA750-32
50 VCB48

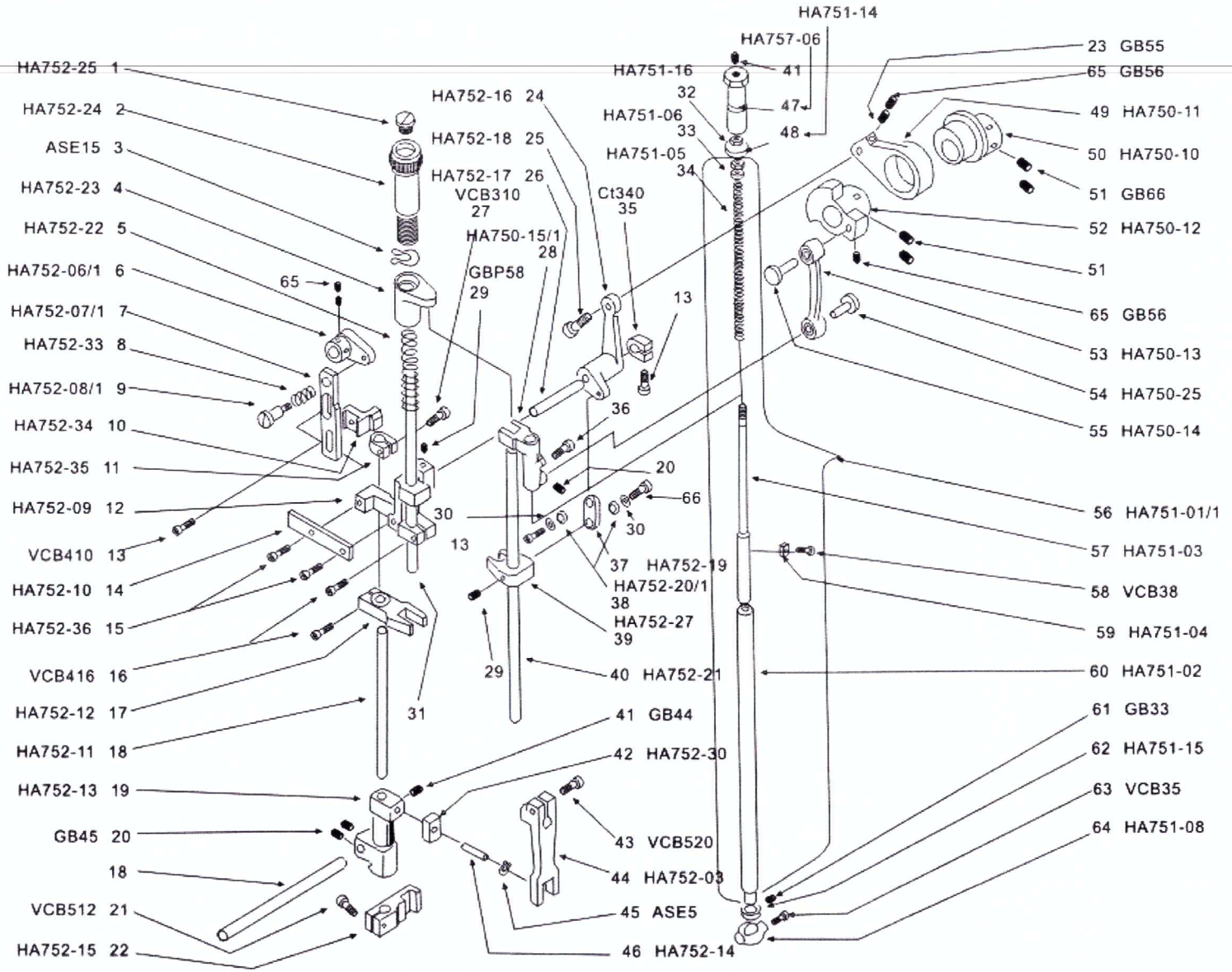
序号		数量	名称	Name
1	VSB48	1	有头螺钉	Hex.soc.flat hd.cap screw
2	HA755-22	1	止动垫圈	Stop washer
3	GBP55	3	定位螺丝	Hex.soc.set screw
4	HA755-21	1	针顺序转化棱块	stitch Sequence inversion prism
5	HA755-18	1	辊子	Roller
6	GB45	4	定位螺丝	Hex.soc.set screw
7	HA755-17	1	线迹调整螺钉	Stitch regulation screw
8	HA755-08	1	辊子	roller
9	HA755-12	1	辊子	roller
10	HA755-11	1	连接杆	Linkage lever
11	HA755-14	1	防震动圈	Shock absorber grommet
12	VCB516	1	有头螺钉	Hex.soc.hd.cap screw
13	HA721-11	1	线迹长短控制杆	Stitch-lengthner control lever
14	HA755-16	1	连接销钉	Connection stud
15	HA755-15	1	针长度控制杠杆	Stitch length control
16	HA755-13	1	引导棒	Guide bar
17	HA755-29	1	最小线迹限制器	Minimum stitch length limit stop
18	HA755-28	1	最大线迹限制器	Maximum stitch length limit stop
19	HA755-10	1	铰链销钉	Hinge pin
20	HA755-31	4	螺旋套桶	Ring nut for bush
21	HA755-03/1	1	标度盘板	Panel dial plate
22	VCB425	2	有头螺钉	Hex.soc.hd.cap screw
23	HA755-02	2	线迹控制面板机壳	Stitch length control panel housing
24	S532	2	滚珠	Ball
25	HA755-06	1	弹簧	Spring
26	HA755-30	1	线迹调整螺母	Stitch regulation nut
27	HA755-07	1	线迹长度调整螺丝	Stitch length regulating screw
28	GBP58	1	定位螺丝	Hex.soc.set screw
29	HA755-09	1	控制叉杆	Stitch length fork lever
30	ASE6	1	卡环	Ring
31	GB56	1	定位螺丝	Hex.soc.set screw
32	HA755-20/1	1	校正控制杆	Stitch correction control lever

序号		数量	名称	Name
33	VCB520	2	有头螺钉	Hex.soc.hd cap screw
35	VSB512	2	有头螺钉	Hex.soc.flat hd.cap screw
36	HA755-24	1	调节手柄	Stitch inverting lever
37	VCB616	2	有头螺钉	Hex.soc.hd.cap screw
38	HA755-25	1	滚花头螺钉	Knurled head screw
39	SIGKM6	2	球接头	Articulated(endpiece)
40	DE6	2	螺旋套	Hex nut
41	HA755-19	1	转化轴	Stitch inversion spindle
42	HA755-23	1	转化导向板	Stitch inverting lever guide plate
43	HA755-29/1	1	连杆	Connecting rod
44	HA25	5	铆钉	Rivet
45	HA755-32/1	1	珠点旋钮	Dial knob
46	HA755-32/2	1	线迹旋钮	Dial knob
47	GB58	1	定位螺丝	Hex.soc.set screw



28 GBP58
29 HA755-09
30 ASE6
31 GB56
47 GB58

序号		数量	名称	Name	序号		数量	名称	Name
1	HA752-25	1	螺塞	Plug screw	34	Ha751-05	1	针棒弹簧	Needle bar spring
2	HA752-24	1	压力调节螺钉	Pressure regulator screw	35	CT340	1	夹钳	Clamp
3	ASE15	1	卡环	Ring	36	VCB412	1	有头螺钉	Hex.soc.hd.cap screw
4	HA752-23	1	压力调节螺旋套	Pressure regulator nut	37	HA752-19	1	链环	Link
5	HA752-22	1	弹簧	Spring	38	HA752-20/1	2	轴环	Colar
6	HA752-06/1	1	提升曲柄	Lifting crank	39	HA752-27	1	压脚提升车钩联杆	Foot-lifter
7	HA752-07/1	1	引导压脚提升链环	Presser feet lifting link	40	HA752-21	1	压脚杆	Draword
8	HA752-33	1	弹簧	Spring	41	GB44	2	定位螺丝	Presser bar
9	HA752-08/1	1	一字螺钉	Shoulder screw	42	HA752-30	1	小块	Small block
10	HA752-34	1	凹凸块	Cam block	43	VCB520	1	有头螺钉	Hex.soc.hd.cap screw
11	HA752-35	1	夹圈	Clamp collar	44	HA752-03	1	叉杆	Fork lever
12	HA752-09	1	压脚提升支架	Foot-lifter bracket	45	ASE5	1	卡环	Ring
13	VCB410	2	有头螺钉	Hex.soc.hd.cap screw	46	HA752-14	1	短轴	Stud
14	HA752-10	1	引导杆	Guide	47	HA757-06	1	调节帽	Adjust table cap
15	HA752-36	2	一字螺钉	Shoulder screw	48	HA751-14	1	垫圈	Cushion ring
16	VCB416	2	有头螺钉	Hex.soc.hd.cap screw	49	HA750-11	1	连接滑块	Connecting link
17	HA752-12	1	导叉	Guide fork	50	HA750-10	1	上送布提升偏心轮子	Walking presser lifting eccentric
18	HA752-11	2	滑块棒	Slider bar	51	GB66	4	定位螺丝	Hex.soc.set screw
19	HA752-13	1	压脚驱动轴套	Presser foot drive bushing	52	HA750-12	1	针棒曲柄	Needle bar crank
20	GB45	3	定位螺丝	Hex.soc.set screw	53	HA750-13	1	轴承连接滑块	Connection link with bearing
21	VCB512	1	有头螺钉	Hex.soc.hd.cap screw	54	HA750-25	1	铰链销钉	Hinge pin
22	HA752-15	1	步行压脚运行架	Walking presser holder	55	HA750-14	1	铁钉	Pin for con-rod
23	GB55	1	定位螺丝	Hex.soc.hd.cap screw	56	HA751-01/1	1	针棒组件	Needle bar assembly
24	HA752-16	1	曲柄	Belt crank	57	HA751-03	1	小针杆	Fabric-holder rod
25	HA752-18	1	铰链销钉	Hinge pin	58	VCB38	1	有头螺钉	Hex.soc.hd.cap screw
26	HA752-17	1	枢轴	Pivot shaft	59	HA751-04	1	滑块	Side block
27	VCB310	1	有头螺钉	Hex.soc.hd.cap screw	60	HA751-02	1	针杆	Needle bar rod
28	HA750-15/1	1	传动节	clamp	61	GB33	1	定位螺丝	Hex.soc.set screw
29	GBP58	2	定位螺丝	Hex.soc.set screw	62	HA751-15	1	挡圈	Needle stop collar
30	AR04010	2	弹簧	Spring	63	VCB35	1	有头螺钉	Hex.soc.hd.cap screw
31	HA752-26	1	导向杆	Guide bar	64	HA751-08	1	定针套	Needle camp
32	HA751-16	1	垫圈	Cushion ring	65	GB66	4	定位螺丝	Hex.soc.set screw
33	HA751-06	1	针棒钳	Needle bar clamp	66	HA752-20	2	有头螺钉	Hex.soc.hd.cap screw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HA751-05
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23 GB55
65 GB56
49 HA750-11
50 HA750-10
51 GB66
52 HA750-12
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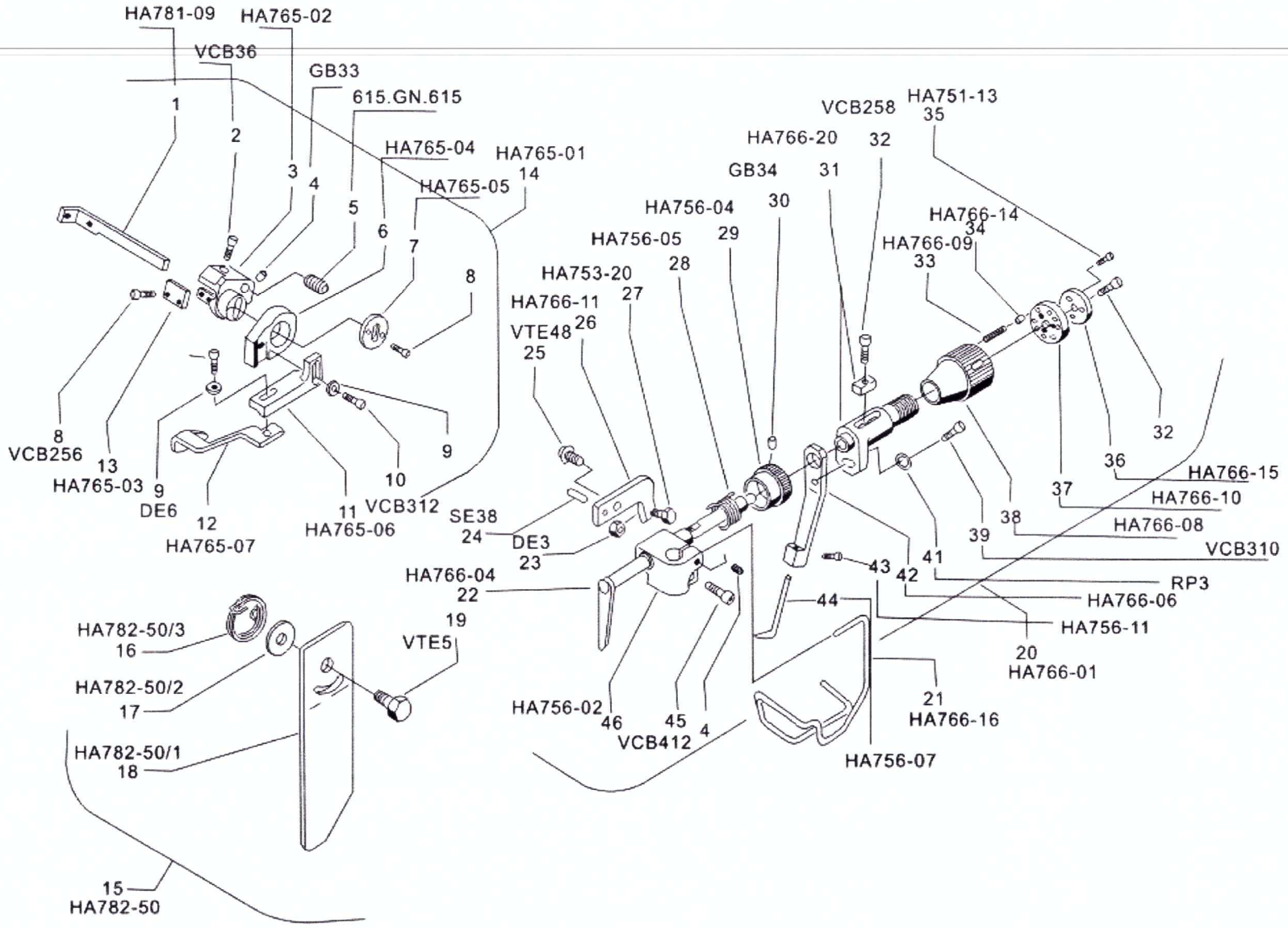
65 GB56
53 HA750-13
54 HA750-25
55 HA750-14
56 HA751-01/1
57 HA751-03
58 VCB38
59 HA751-04
60 HA751-02
61 GB33
62 HA751-15
63 VCB35
64 HA751-08

序号		数量	名称	Name	序号		数量	名称	Name
1	HA781-09	2	引导支架	Edge guide support bracket	32	VCB258	2	有头螺钉	Hex.soc.hd.cap screw
2	VCB36	1	有头螺钉	Hex.soc.hd.cap screw	33	HA766-09	1	弹簧	Spring for pawl
3	HA765-02	2	可伸缩滑动支架	Sliding support for retractable edge guide	34	HA766-14	1	滚珠卡爪	Ball pawl
4	GB33	1	定位螺丝	Hex.soc.set screw	35	HA751-13	3	线爪连接螺钉	Latch wire fastening screw
5	615.GN.615	1	滚珠螺钉	Ball presser	36	HA766-15	1	垫圈	Washer
6	HA765-04	1	转向引导支架	Rotating lever for retractable edge guide	37	HA766-10	1	外加圆	Impressed dise
7	HA765-05	1	垫圈	Washer for retractable edge guide	38	HA766-08	1	松线调节按钮	Stitch slackening adjustment konb
8	VCB2-256	4	有头螺钉	Hex.soc.hd.cap screw	39	VCB310	1	有头螺钉	Hex.soc.hd.cap screw
9	DE6	2	平垫圈	Flat washer	41	RP3	1	垫圈	Washer
10	VCB312	1	有头螺钉	Hex.soc.hd.cap screw	42	HA766-06	1	松线杆	Stitch slackening lever
11	HA765-06	1	调节引导支架	Adjustment supprot forretractable edge guide	43	HA756-11	1	连接螺钉	Fastening screw cap
12	HA765-07	1	揿钮引导支架	Snap retractable edge guide	44	HA756-07	1	松线钩	Stitch slackening finger
13	HA765-03	1	锁板	Lock plate for snap retractable edge guide	45	VCB412	1	有头螺钉	Hex.soc.hd cap screw
14	HA765-01	1	揿钮可伸缩引导组件	Snapretractable edge guide assembly	46	HA756-02	1	支座右铭	Stitch slackening shaft bushing
15	HA782-50	1	眼防护组件	Eyes guard return spring					
16	HA782-50/3	1	眼防护复位弹簧	Eyes guard return spring					
17	HA782-50/2	1	线圈	Threaded washer					
18	HA782-50/1	1	眼防护片	Eyes guard protection					
19	VTE5	1	针防护销钉	Needle protection pin					
20	HA766-01	1	松线组件	Stitch slackening assembly with clamp					
21	HA766-16	1	防护手指	Ringer guard					
22	HA766-04	1	松线杠杆	Stitch slackening lever					
23	DE3	1	螺旋套	Hex nut					
24	SE38	1	平行销钉	Parallel pin					
25	VTE48	1	凸头螺钉	Convex-headed screw					
26	HA766-11	1	杠杆锁	Lever lock					
27	HA753-20	1	止动螺钉	Stop screw					
28	HA7556-05	1	扭转弹簧	Torsion spring					
29	HA756-04	1	扭簧套帽	Spring housing cap					
30	GB34	1	定位螺丝	Hex.soc.set screw					
31	HA766-20	1	松线组件	Threaded sleeve					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RP3
HA766-06
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HA756-11
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HA766-01
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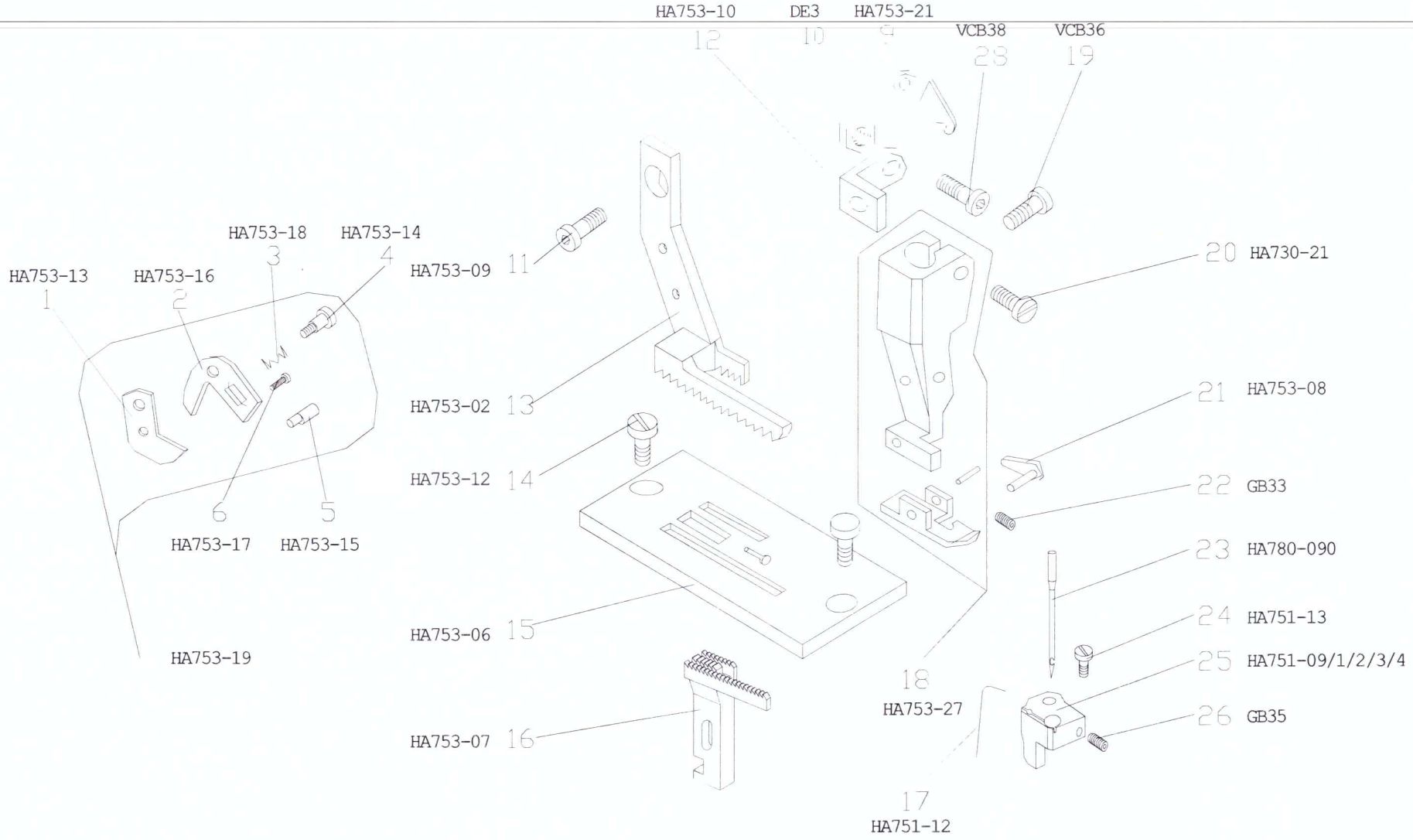
HA766-16
HA756-07

序号		数量	名称	Name
1	HA753-13	1	固定线剪叶片	Thread cutter guide
2	HA753-16	1	上刀片	Thread cutter
3	HA753-18	1	弹簧	Spring
4	HA753-14	1	线剪叶片螺钉	Thread cutter screw
5	HA753-15	1	偏心销	Eccentric stud
6	HA753-17	1	螺钉	Screw
7	HA753-19	1	“N.P”线剪叶片组件	Thread cutter assembly”N.P”
8	HA753-33	1	“N.P”缝纫组件	Sewing unit ”M.P”
9	HA753-21	1	导线钩	Thread guide
10	HADE3	1	螺旋套	Hex nut
11	HA753-09	1	螺钉	Screw
12	HA753-10	1	止动杆	Stip lever
13	HA753-02	1	上送布牙	Walking presser
14	HA753-12	2	针板螺钉	Throat plate screw
15	HA753-06	1	针板	Plate
16	HA753-07	1	上送布牙	Drop feed dog
17	HA753-12	1	线爪	Latch wire
18	HA753-27	1	“M.P”步行压脚	Presser feet “M.P”
19	VCB36	1	有头螺钉	Hex.soc.hd.cap screw
20	HA730-07	1	送料挡块高度调节螺钉	Feed dog height adjustment screw
21	HA753-08	1	边引导器	Integrated edge guide
22	GB33	1	定位螺丝	Hex.soc.set screw
23	HA780-090	1	780C 90 型针	Needle gauge 90 system 780C
23	HA780-100	1	780C 100 型针	Needle gauge 100 system 780C
23	HA780-110	1	780C 110 型针	Needle gauge 110 system 780C
23	HA780-125	1	780C 125 型针	Needle gauge 125 system 780C
24	Ha751-13	1	线爪紧针固定器	Latch wire fastening screw
25	HA751-09/1	1	90 型针封针座	Fabric holder for needle size 90
25	HA751-09/2	1	100 型针封针座	Fabric holder for needle size 100
25	HA751-09/3	1	110 型针封针座	Fabric holder for needle size 110
25	HA751-09/4	1	125 型针封针座	Fabric holder for needle size 125
26	Gb35	1	定位螺丝	Hex.soc.set screw

序号		数量	名称	Name
27	HA753-11	1	“M.P”步行压脚组件	Presser feet assembly ”M.P”
28	VCB38	1	有头螺钉	Hex.soc.hd.cap screw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HA753-27
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GB35
HA753-07
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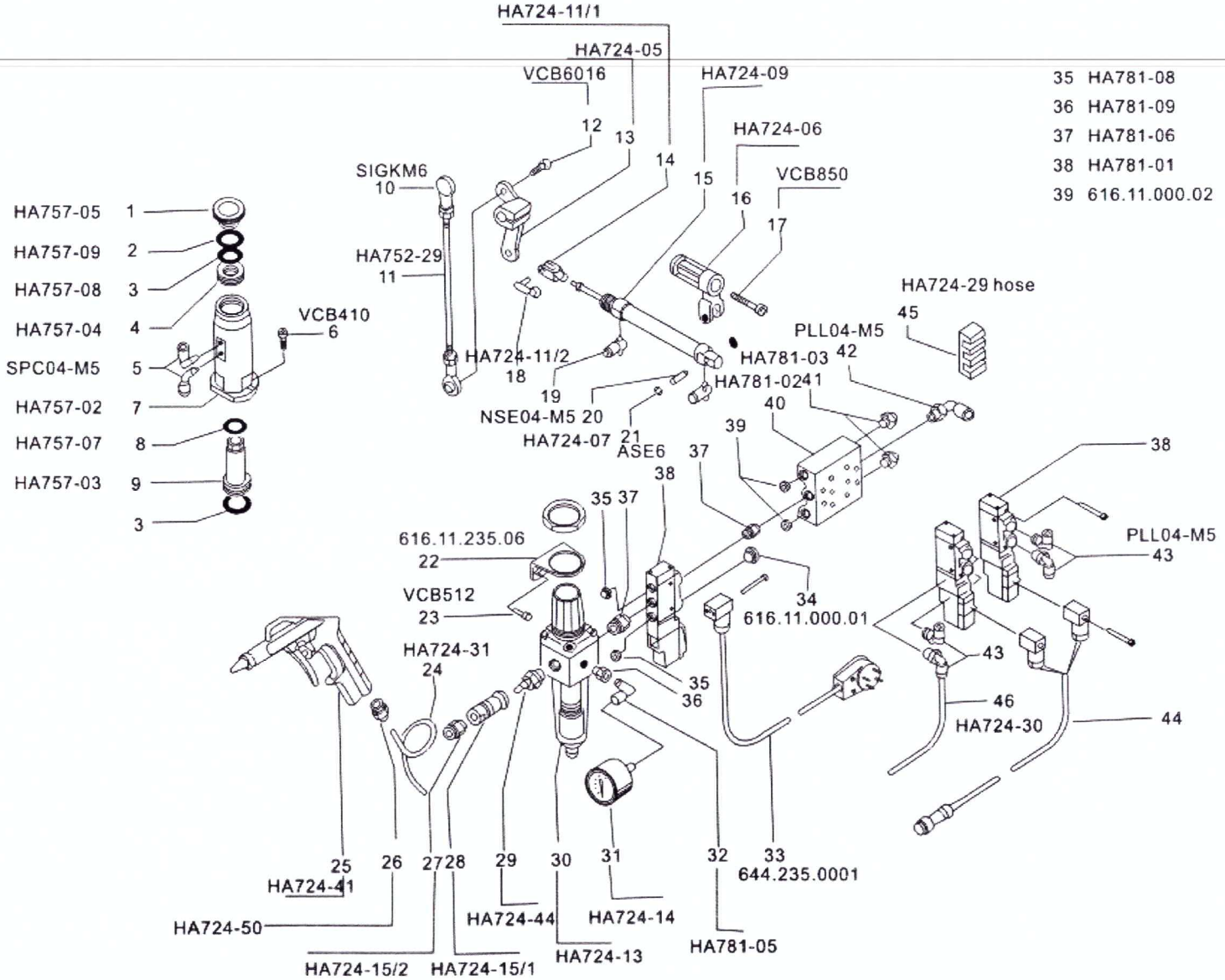
HA751-12
HA753-19

序号		数量	名称	Name	序号		数量	名称	Name
1	HA757-05	1	阀罩	Cylinder cap	33	644.235.0001	1	连接器	Connector
2	HA757-09	1	垫圈	02081 washer	34	616.11.000.01	1	螺旋塞	Screw plug
3	HA757-08	2	垫圈	Washer	35	HA781-08	2	消声器	Muffler
4	HA757-04	1	螺纹引导器	Threaded guide	36	HA781-09	1	延伸连接器	Extension
5	SPC04M5	2	肘管连接器	Elbow pneumatic coupler	37	HA781-06	2	螺纹连接头	Nipple
6	VCB410	2	有头螺钉	Hex.soc.hd.cap screw	38	HA781-01	3	电阀	Electro valve
7	HA757-02	1	气体提升汽缸	Tang-lifter cylinder	39	616.11.000.02	2	螺旋塞	Screw plug
8	HA757-07	1	垫圈	Washer	40	HA781-02	1	底座接头	Sub-base
9	HA757-03	1	封闭活塞	Seal piston	41	HA781-03	2	消声器	Muffler
10	SIGKM6	2	球接头	Articulated endpiece	42	PLL04-M5	1	肘管气体连接器	Elbow pneumatic coupler
11	HA752-29	1	连杆	Connecting rod	43	PLL04-M5	4	肘管气体连接器	Elbow pneumatic coupler
12	VCB6016	1	有头螺钉	Hex.soc.hd.cap screw	44	644.781.0002	2	连接器	Connector
13	HA724-05	1	转化控制杆	Stitch inversion control lever	45	HA724-29 hose	1	软管夹	Clamp 4
14	HA724-11/1	1	叉	Fork	46	HA724-30	1	导管	pipe
15	HA724-09	1	汽缸体	Cylinder body					
16	HA724-06	1	耳轴支架	Trunnion mounting					
17	VCB850	1	有头螺钉	Hex.soc.hd.cap screw					
18	HA724-11/2	1	线夹	Lock clips					
19	NSE04-M5	2	调节器	Regulator					
20	HA724-07	1	铰链销钉	Hinge pin					
21	ASE6	2	卡环	Ring					
22	616.11.235.06	1	固定直角块	Fixing square					
23	VCB512	2	有头螺钉	Hex.soc.hd.cap screw					
24	HA724-31	1	软管	Spring tube					
25	HA724-41	1	空气枪	Air gun					
26	HA724-50	1	直接气流连接器	Straight pneumatic coupler					
27	HA724-15/2	1	直接气流连接器	Straight pneumatic coupler					
28	HA724-15/1	1	旋塞	Faucet					
29	HA724-44	1	主连接器	Quick cpupling					
30	HA724-13	1	过滤器	Filter					
31	HA724-14	1	仪表	Gauge					
32	HA781-05	1	肘管气体连接器	Elbow pneumatic poupler					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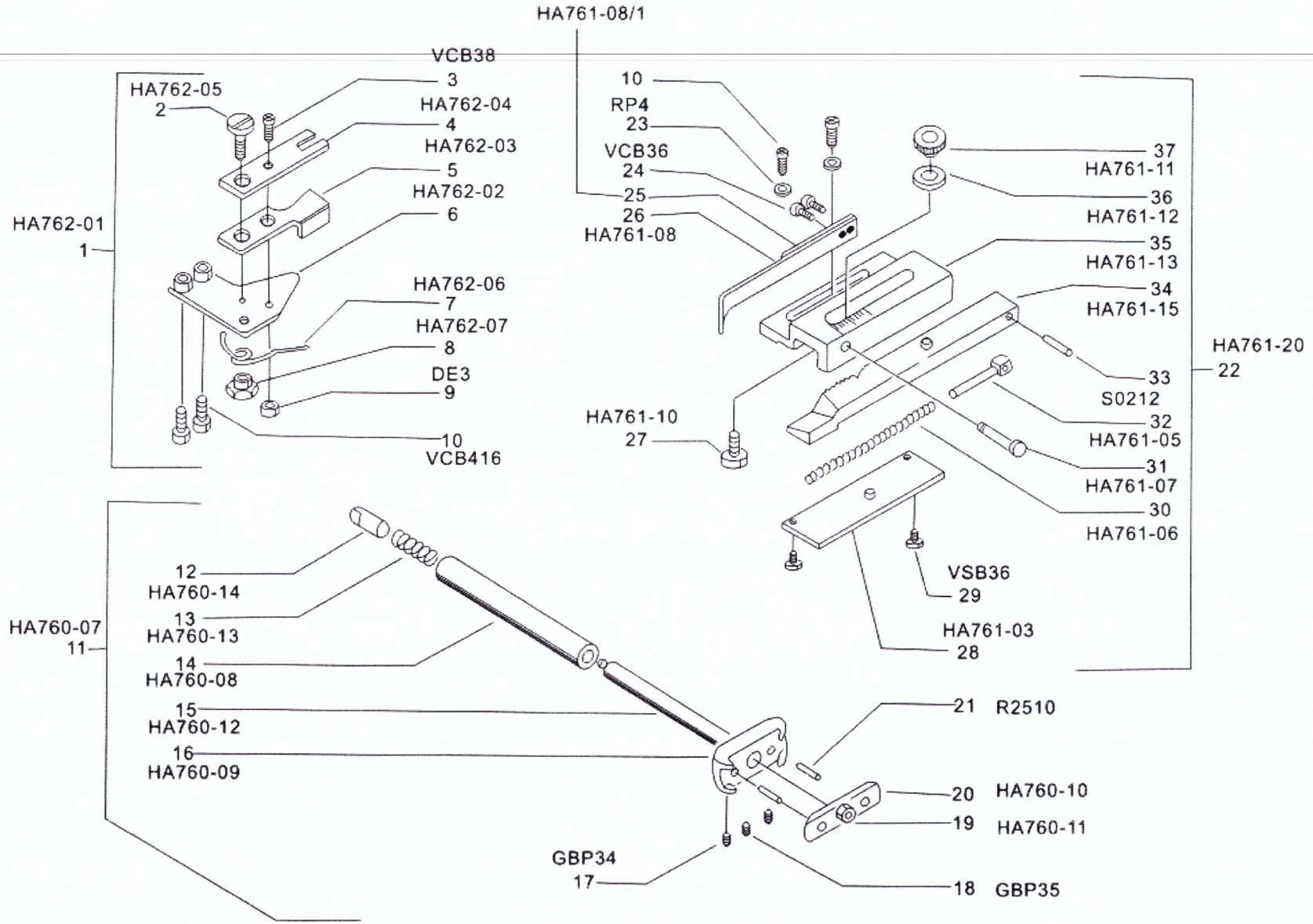
36 HA781-09
37 HA781-06
38 HA781-01
39 616.11.000.02

序号		数量	名称	Name	序号		数量	名称	Name
1	HA762-01	1	剪刀组件	Cutters assembly	33	S0212	1	销钉	Spring pin
2	HA762-05	1	一字螺钉	Blade screw	34	HA761-15	1	调节滑动棒	Adjustable sliding bar
3	VCB38	1	有头螺钉	Hex.soc.hd.cap screw	35	HA761-13	1	调节引导支架	Adjustable guide supportint
4	HA762-09	1	汽缸	cylinder	36	HA761-12	1	调节螺钮垫圈	Index
5	HA762-08	1	汽缸座		37	HA761-11	1	球关调节钮	Ball grip for adjustable guide
6	HA762-02	1	固定刀片	Stationary blade					
7	HA762-06	1	汽缸联接轴						
8	HA762-04	1	弹簧刀片	Spring blade					
9	HA762-03	1	可动刀片	Moving blade					
10	VCB416	4	有头螺钉	Hex.soc.hd.cap screw					
11	HA760-17	1	线闸张力组件	Thread-brake tension group					
12	HA760-14	1	张力帽	Tension cap					
13	HA760-13	1	弹簧	Spring					
14	HA760-08	1	导套	Guide sleeve					
15	HA760-12	1	钳刀松开棒	Nipper release rod					
16	HA760-09	1	后压板	Rear pressure plate					
17	GBP34	2	定位螺丝	Hex.soc.set screw					
18	GBP35	1	定位螺丝	Hex.soc.set screw					
19	HA760-11	1	螺母	Nut					
20	HA760-10	1	前压板	Front pressure plate					
21	R2510	2	辊子	Roller					
22	HA761-20	1	可伸缩撳钮引导组件	snap retractable edge guide assembly					
23	RP4	2	平垫圈	Flat washer					
24	VCB36	2	有头螺钉	Hex.soc.hd.cap screw					
25	HA761-08/1	1	强化弹簧板	Reinforcement for spring					
26	HA761-08	1	松放弹簧板	Release spring for guide					
27	HA761-10	1	螺纹螺钉	Threaded block					
28	HA761-03	1	底部盖板	Bottom for guide with lock					
29	VSB36	2	有头螺钉	Hex.soc.flat hdcap screw					
30	HA761-06	1	弹簧	Spring for cloth-guide					
31	HA761-07	1	球头钉	Push button for guide					
32	HA761-05	1	弹簧引导栓	Spring guide point					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HA760-09
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20 HA760-10
19 HA760-11
GBP34
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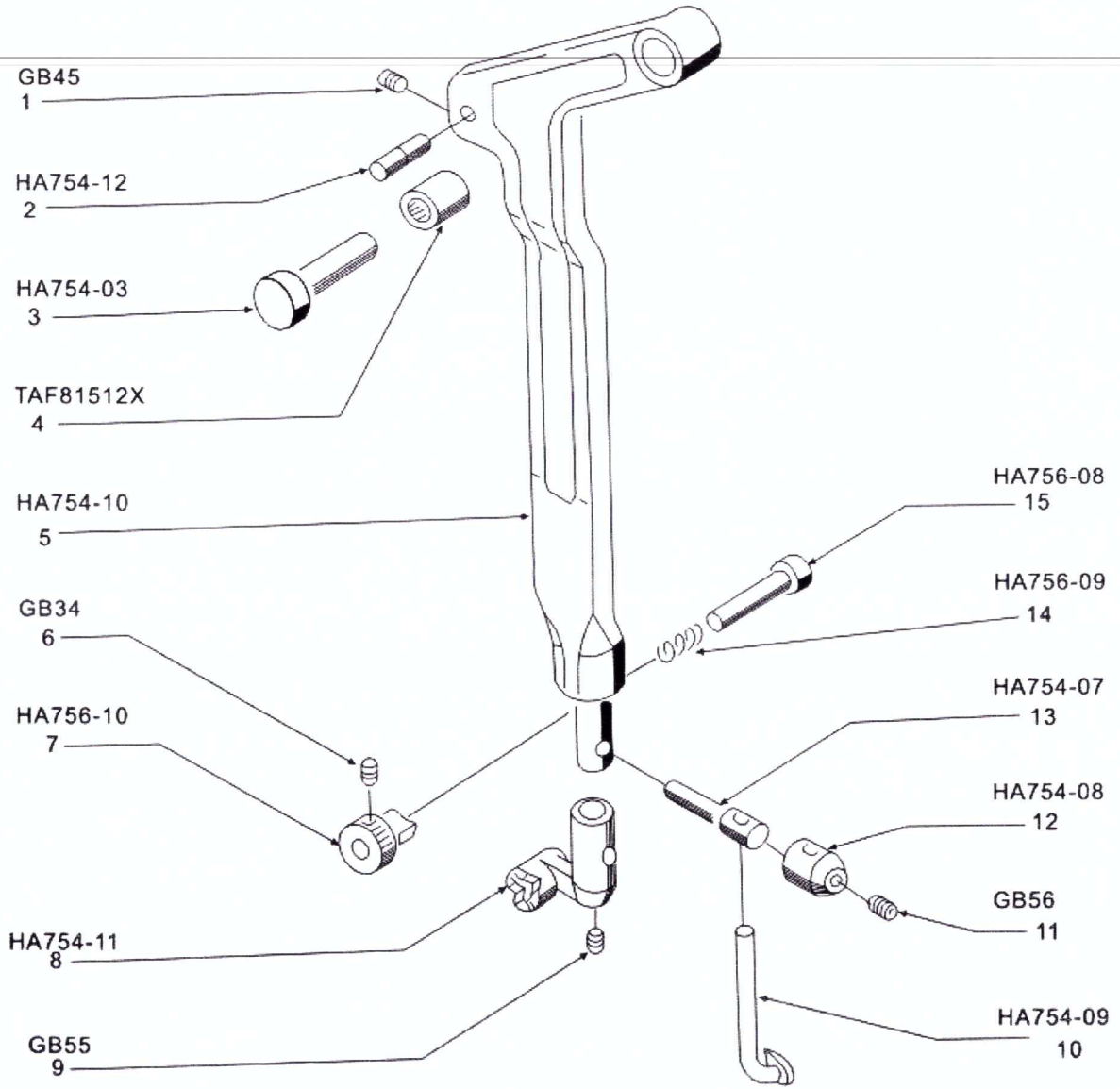
18 GBP35

序号		数量	名称	Name
1	GB45	1	定位螺丝	Hex.soc.set screw
2	H754-12	1	短轴	Stud
3	HA754-03	1	铰链铆钉	Hinge stud
4	TAF81512X	1	辊子轴承套	Rollers bearing
5	HA754-10	1	上弯纱轮杆	Upper looper lever
6	GB34	1	定位螺丝	Hex.soc.set screw
7	HA756-10	1	控制控制	Control knob
8	HA754-11	1	上支架	Upper looper support
9	GB55	1	定位螺丝	Hex.soc.set screw
10	HA754-09	1	上勾线钩	Upper looper
11	GB56	1	定位螺丝	Hex.soc.set screw
12	HA754-08	1	固定帽	Upper looper holder cap
13	HA754-07	1	上勾线钩座	Cap for hook
14	HA756-09	1	弹簧	Spring
15	HA756-08	1	辊子螺栓	Rooler stud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HA754-09
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GB56
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HA754-07
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HA756-09
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HA756-08
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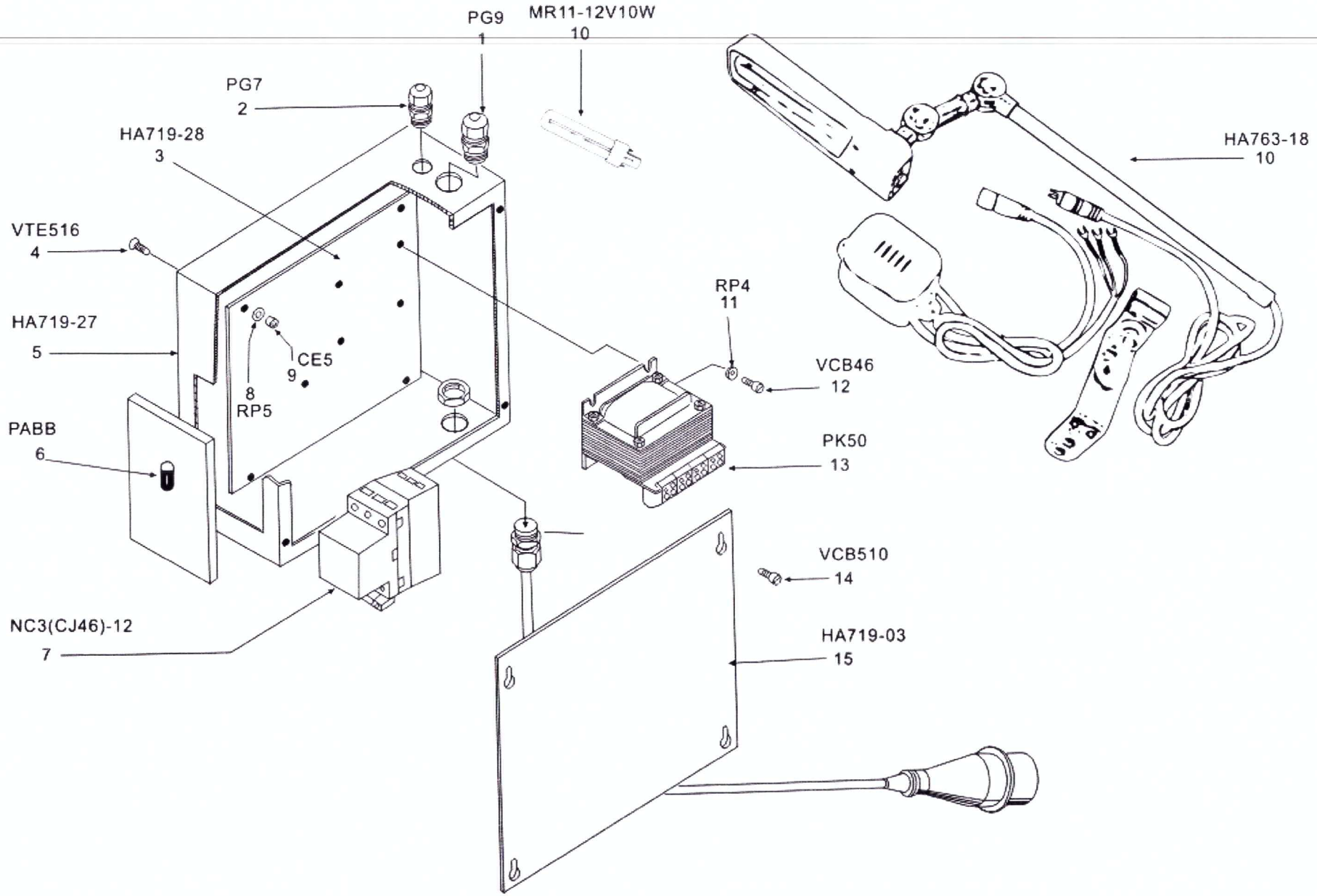
序号		数量	名称	Name
1	PG9	2	缆索支架	Cable holder
2	PG7	1	缆索支架	Cable holder
3	HA719-28	1	盒底座	Box base
4	VTE516	2	有头螺钉	Hex.soc.flat hd.cap screw
5	HA719-27	1	电源盒	Electric box
6	PABB	1	分离盒	Indented cover
7	NC3(CJ46)-12	1	过载电流断路器	Circuit breaker with terminal overload
8	RP5	2	平垫圈	Flat washer
9	CE5	2	螺旋套	Hex nut
10	MR11-12V10W	1	电灯泡	Light bulb
11	HA763-18	1	灯固定器	Halogen lamp
12	RP4	2	垫圈	Washer
13	VCB46	2	有头螺钉	Hex.soc.hd.cap screw
14	PK50	1	变压器	Transformer
15	VCB510	4	凸头螺钉	Convex-headed screw
16	HA719-03	1	盒盖	Box cover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CE5
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RP5
PABB
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PK50
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VCB510
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NC3(CJ46)-12
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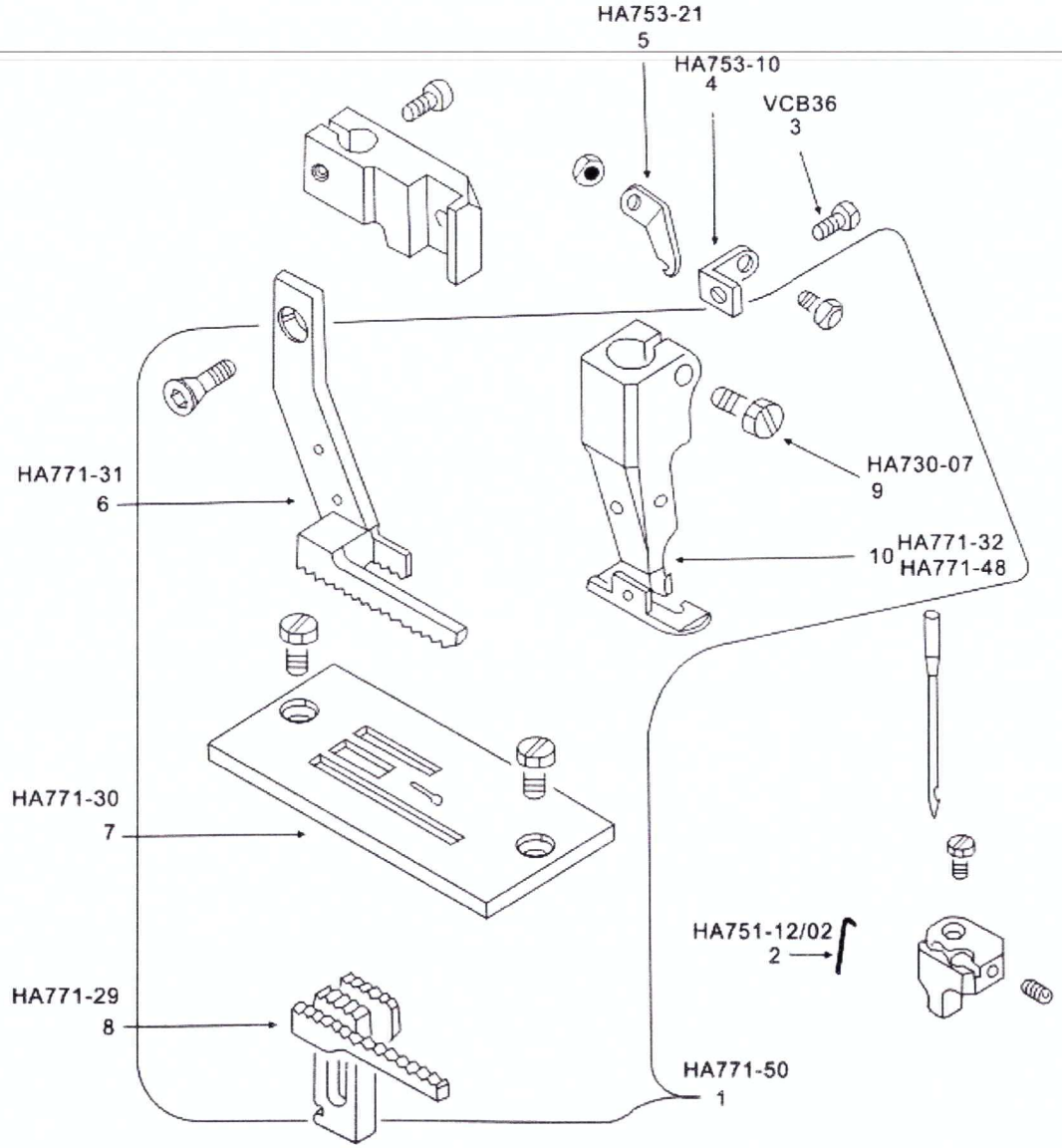
HA719-03
15

序号		数量	名称	Name
1	HA771-50	1	“L”缝纫组件	Soft stitch feature “L”
1	HA771-62	1	“P.L”缝纫组件	Soft stitch feature “P.L”
2	HA751-12/02	1	线爪	Latch wire
3	VCB36	2	有头螺钉	Hex.soc.hd.cap screw
4	HA753-10	1	止动杆	Stop lever
5	HA753-21	1	导线钩	Thread guide
6	HA771-31	1	“L.-P.L.”上送布牙	Walking presser “L.-P.L.”
7	HA771-30	1	“L.-P.L.”针板	Plate “L.P.L.”
8	HA771-29	1	“L.-P.L.”下送布牙	Drop feed dog “L.-P.L.”
9	HA730-07	1	送料挡块高度调节螺钉	Feed dog height adjustment screw
10	HA771-32	1	“L”步行压脚	Presser foot “L”
10	HA771-48	1	“P.L”步行压脚	Presser foot “P.L”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HA771-30
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HA751-12/02
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HA771-29
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HA771-50
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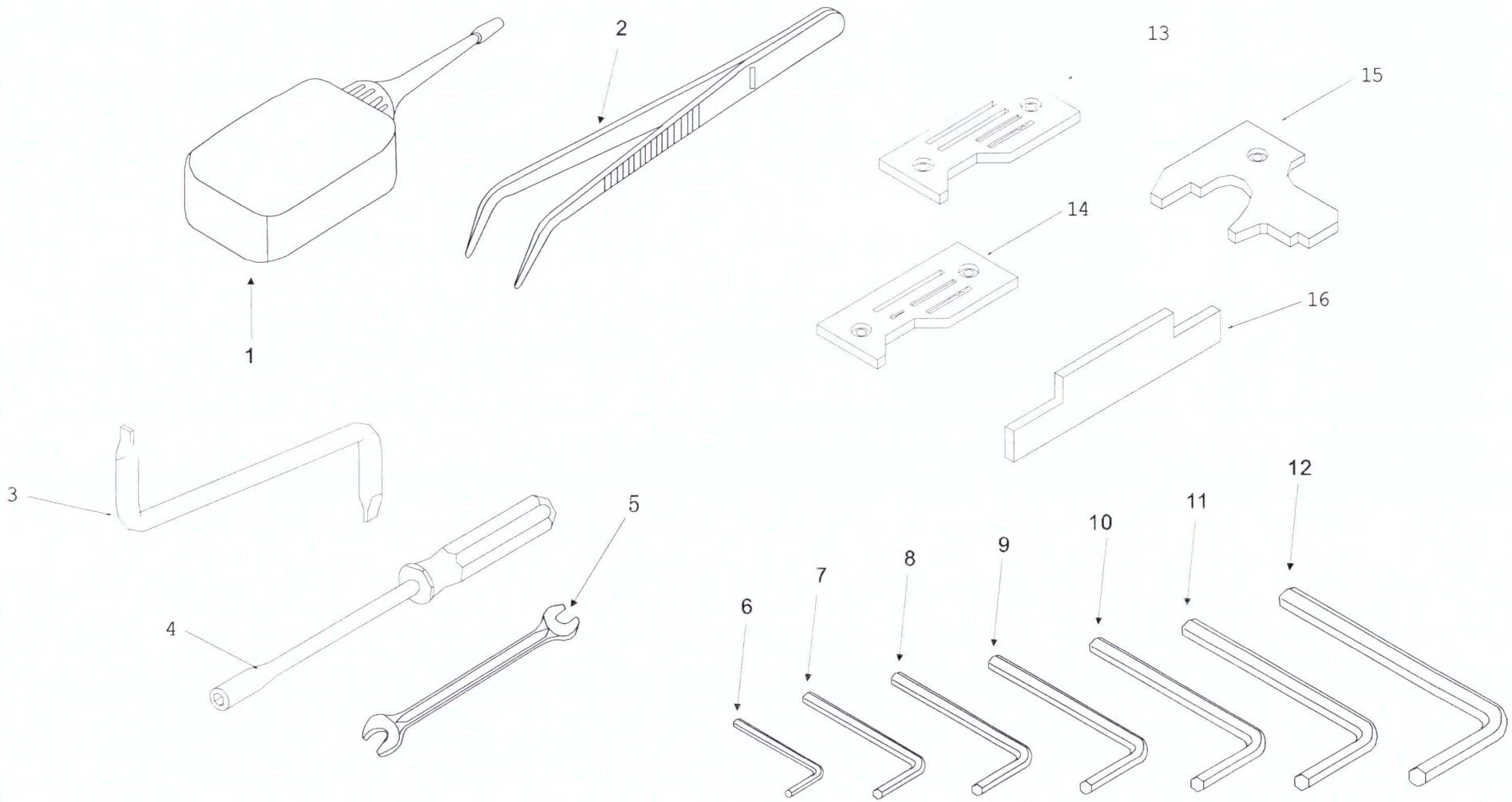
序号		数量	Name
1	注没壶	1	Oiler
2	钳子	1	Pincers
3	一字螺丝起子	1	Angular screw driver
4	内六角头螺丝起	1	Head screw dirver mm.7
5	5,537mm 扳手	1	Open and wrench mm.5,5.7
6	1.5mm 六角螺丝起	1	Hexagonal key mm.1.5
7	2mm 六角螺丝起	1	Hexagonal key mm.2
8	2.5mm 六角螺丝起	1	Hexagonal key mm.2.5
9	3mm 六角螺丝起	1	Hexagonal key mm.3
10	4mm 六角螺丝起	1	Hexagonal key mm.4
11	5mm 六角螺丝起	1	Hexagonal key mm.5
12	6mm 六角螺丝起	1	Hexagonal key mm.6
13	“M.P.-M.L.”型针板	1	Sample throat plate type “M.P.-M.L.” (Optional)
14	“L”型针板	1	Sample throat plate type “L”
15	下顶针调节器	1	Sample gauge for lower bad center (Optional)
16	下送料针高度板	1	Template for height of drop feed dog and needle (Optional)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