



2300SZ

INDUSTRIAL ZIG-ZAG SEWING MACHINE

INSTRUCTION MANUAL

1. APPLICATION

This Reliable 2300SZ Zigzag Machine is for;

- Zigzag and ornamental stitching in a variety of width and stitch length.
- Perfect straight stitching.
- Superfine control of stitch length insures perfect satin stitching.

Model 2300SZ

This machine is manufactured for atrisan zigzag sewing and is suited for sewing light weight and medium weight materials.

2. NOTES ON SAFETY

The machine must only be commissioned in full knowledge of the instruction manual and operated by persons with appropriate training.

Before putting into service, also read the safety notes and the instruction manual of the motor supplier.

The machine must be used only for the purpose intended. Use of the machine without the safety devices belonging to it is not permitted.

When gauge parts are exchanged (e.g.needle,presser foot, needle plate, feed dog and bobbin),during threading, when the workplace is left unattended, and during service work, the machine must be isolated from the mains by switchingoff the main switch of disconnecting the main plug.

On mechanically operated clutch motors without start inhibitor, it is necessary to wait until the motor has stopped.

General servicing work must be carried ou only by appropriately trained persons.

Repairs, conversion and special maintenance work must only be carried out by technicians or persons with appropriate training.

For service or repair work on pneumatic systems, the machine must be isolated from the compressed air supply system. Exceptions to this are only adjustments and function checks made by appropriately trained technicians.

Work on the electrical equipment must be carried out only by electricians or appropriately trained persons.

Work on parts and systems under electric current is not permitted, except as spectified in regulations EN50110.

Conversions or changes to the machipe must be made only on adherence to all safety regulations.

For repairs, only replacement parts approved by us must be used.

Commissioning of the sewing head is prohibited until such time as the entire sewing unit is found to comply with EC regulations.

Meanings of the symbols:



Danger spot!
Items requiring special attention



Danger of injury to operative or service staff.
Be sure to observe and adhere to these safety notes!



Earth

3. COMMISSIONING



To avoid disturbances or damages, it is absolutely necessary to observe the following instructions:

Before you put the machine into operation for the first time, clean it throughly and oil it well (see page 2).

Have the mechanic check whether the motor can be used with existing mains voltage or not, and that junction box is correctly connected. Do not start the machine if the voltage is not correct!

When the machine runs, the balance wheel must rotate toward the operator. If it does not, have the electrician change the wires on the motor.

4.LUBRICATION

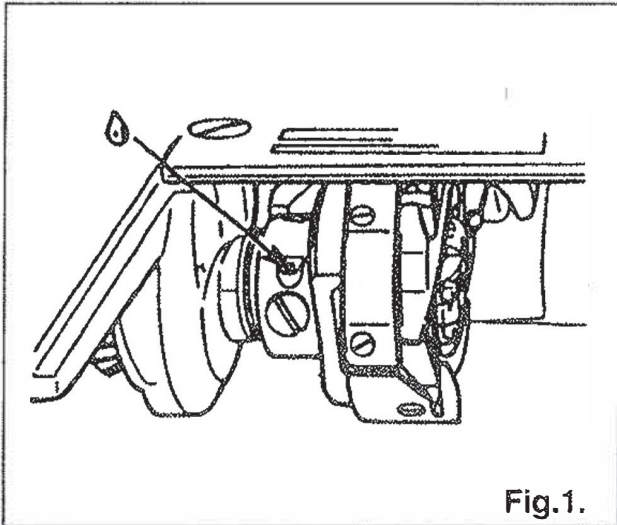


Fig.1.

	CAUTION
	<p>Switch off the machine. Set sewing head upright again using both hands. Danger of cruching between sewing head and table top.</p>

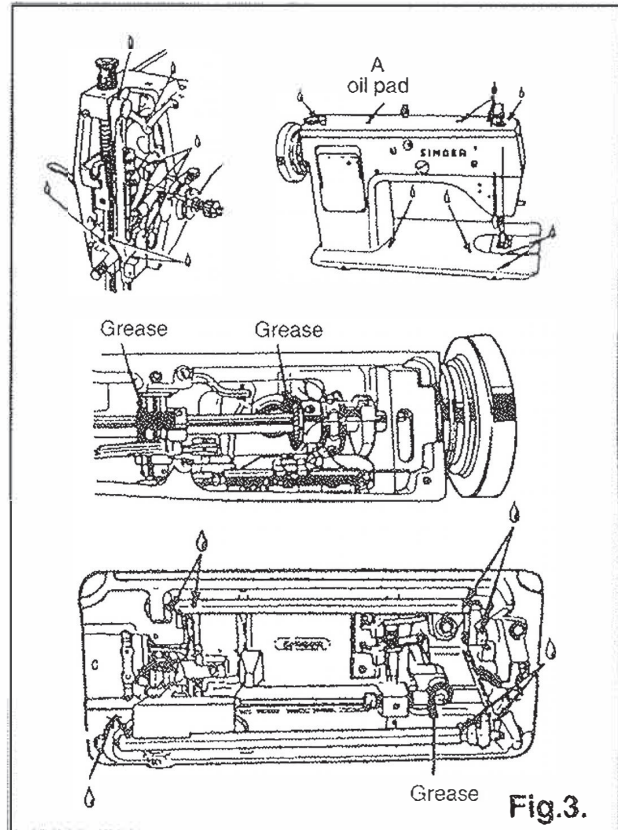


Fig.3.

	CAUTION
	<p>Switch off the machine. Set sewing head upright again using both hands. Danger of cruching between sewing head and table top.</p>

-Rotating hook and area under throat plate.
Turn hand wheel over toward you until oil hole in rotating hook appear in sight.
Apply one or two drops of oil to the oil hole (see Fig.2)

Loosen and remove screws and remove face plate by sliding it downward.

Remove screws and lift off arm top cover.
Clean and oil the places indicated.

Apply sufficient oil to all oil felt shown in Fig.3
Apply a small amount of grease to gear teeth indicated with word 'Grease' in Fig.3.

Also apply a drop of oil to all other oiling points shown with marks .

Keep oil pad (A) under arm top cover saturated with oil.

CHOICE OF OIL

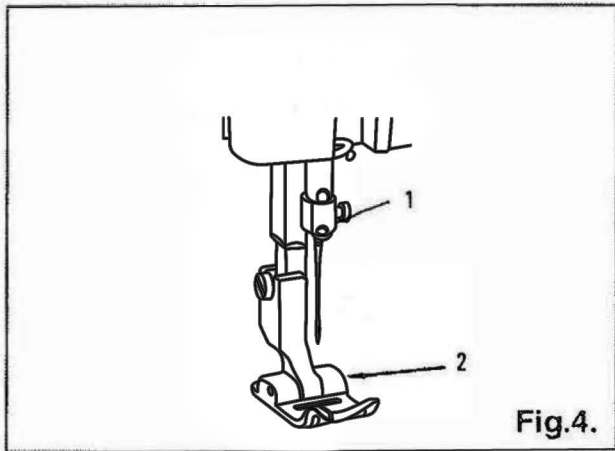
- (1) For (20U73/73B/83/83B) machines
Only use oil with a viscosity of 45.0 mm²/sec.at 38 °C
and a density of 0.888 g/cm³ at 15 °C .

5.NEEDLE AND THREAD

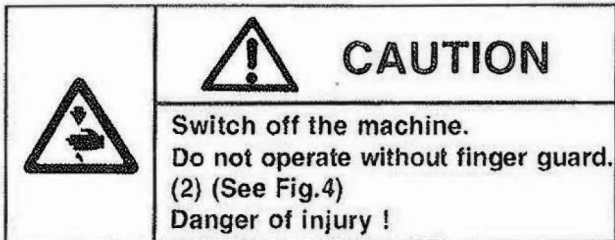
Selection of the proper needle depends not only on the machine model, but also on the material and thread used. For selection of proper needle and thread sizes to be used on the various machine models please refer to the table below.

Model	2300SZ		
Application of class	For light-weight materials	For medium-weight materials	For medium-heavy weight materials
Max.thread size(Nm)-Synthetic*	120	60	30
Needle size (1/100mm)	10	12~16 (80~100)	18~19 (110~120)
Needle catalog (Needle system)	1910-05 (135x5)		
*or an equivalent size of other types of thread			

6.INSERTING THE NEEDLE



- 1.Open bed slide.
- 2.Raise latch (1) (see Fig.5).
- 3.Lift out bobbin case (2) (see Fig.5).



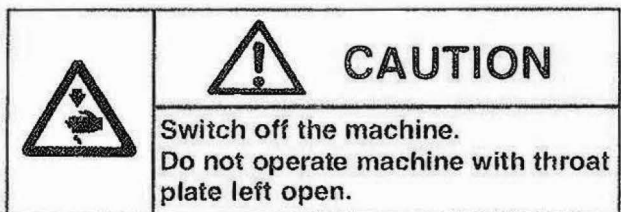
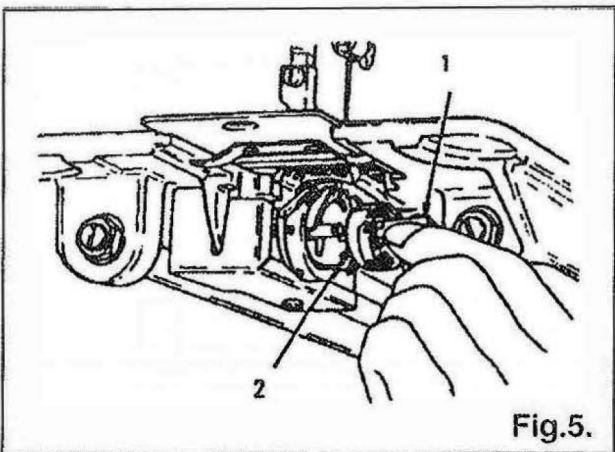
Use needle cat. No. 1910-05 needle system (135X5) only.

Raise needle bar to its highest position by turning hand wheel toward you.

Loosen needle set screw (1) (See Fig.4) Insert the needle in the needle bar and push it up as far as it will go.

Make sure its long groove faces toward the front. Tighten needle set screw (1) securely.

7.TO REMOVE THE BOBBIN CASE



1. Place bobbin on bobbin winder spindle (3), Fig. 7, pushing it on as far as it will go.

Pre-tension (1) (see Fig. 7).

+ More tension.

..... Less tension.

2. Push latch (2) in the direction indicated by arrow (A), then start the machine (see Fig. 7).

Bobbin winder spindle (3), rotate in the direction indicated by arrow (B) (see Fig. 7).

To adjust the amount of thread on bobbin, loosen screw (4) on latch (2) and swing the latch (2) away from you or toward you, as required.

For more thread on bobbin, swing latch (2) away from you.

For less thread on bobbin, swing latch (2) toward you. If thread winds unevenly on bobbin, loosen screw (5) and move pre-tension (1) up or down, as required, and tighten screw (5).

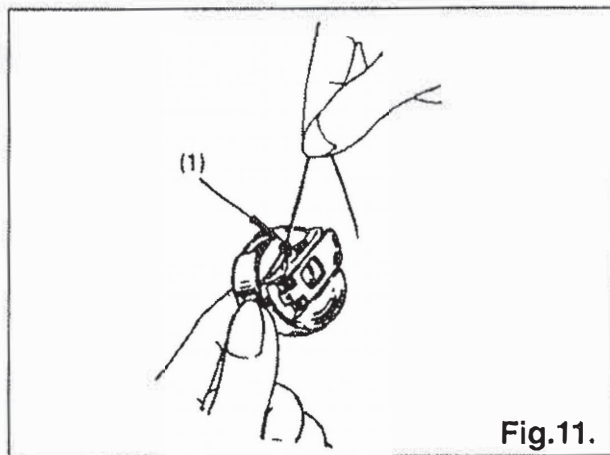


Fig. 11.

1. Hold bobbin case so that thread unwinds in the direction shown in Fig. 8, and put bobbin in bobbin case.

2. Pull thread into notch (1), and draw it under tension spring (2) (see Fig. 9).

3. Draw thread out from slot (2) on end of spring (1), (Fig. 10) and pass it through bobbin case thread guide (1), Fig. 11. Allow about 4 inches of thread to hang freely from bobbin.

NOTE: When straight stitching, a better result can be obtained if bobbin thread is not threaded through bobbin case thread guide (1), Fig. 11.

9. THREADING THE BOBBIN CASE.

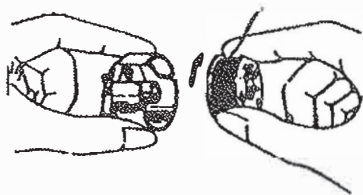


Fig. 8.

10. TO REPLACE THE BOBBIN CASE.

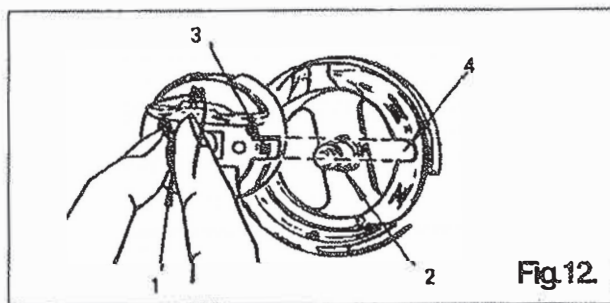


Fig. 12.

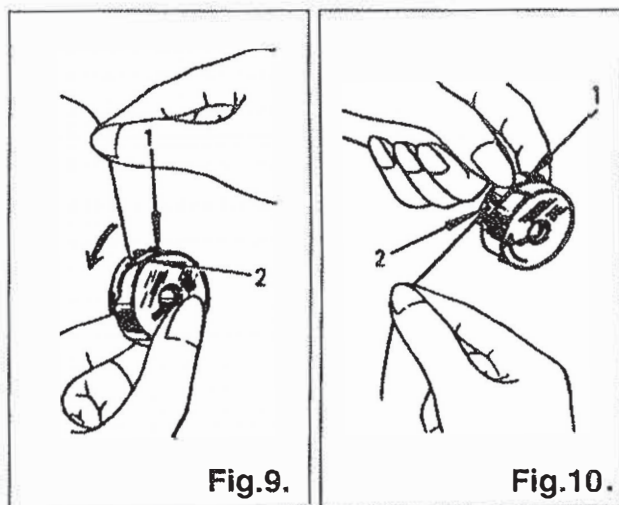


Fig. 9.

Fig. 10.



CAUTION

Switch off the machine.
Do not run machine without closing bed slide. Danger of injury!

Hold bobbin case by latch (1) and place it on spindle of bobbin case holder (2) so that position finger (3) enters notch (4) at right of bobbin case holder (see Fig. 12). Release latch and press bobbin case firmly in place to assure proper position. Close bed slide.

11.THREADING THE NEEDLE

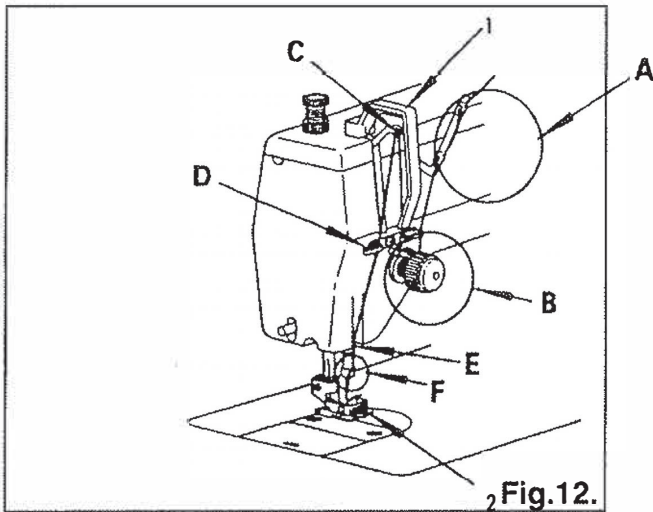


Fig.12.

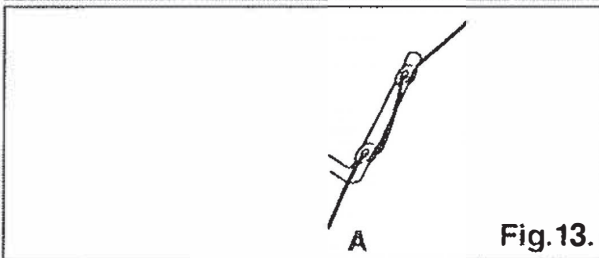


Fig.13.

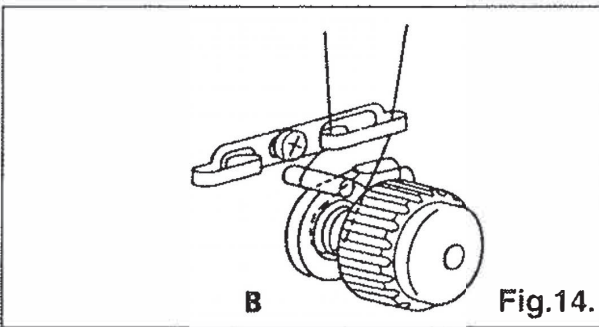


Fig.14.

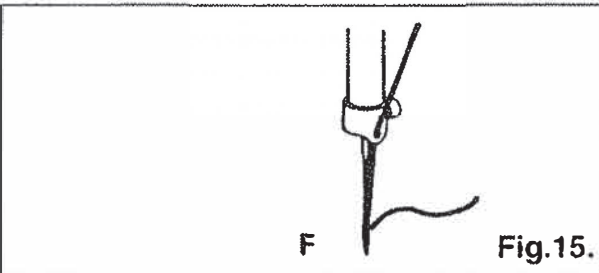


Fig.15.

	CAUTION
	<p>Switch off the machine. Do not operate without thread take-up guard. Do not operate without finger guard Danger of injury!</p>

- 1.Lead thread from the thread unwinder through all the threading points A (Fig.14),B (Fig.15), C (Fig.13), D (Fig.13), and E (Fig.13) in the order shown.
- 2.Thread the needle from front to back, as shown in Fig.15.
- 3.Draw about 3 inches of thread through eye of needle.

13.TO ADJUST PRESSER FOOT PRESSURE

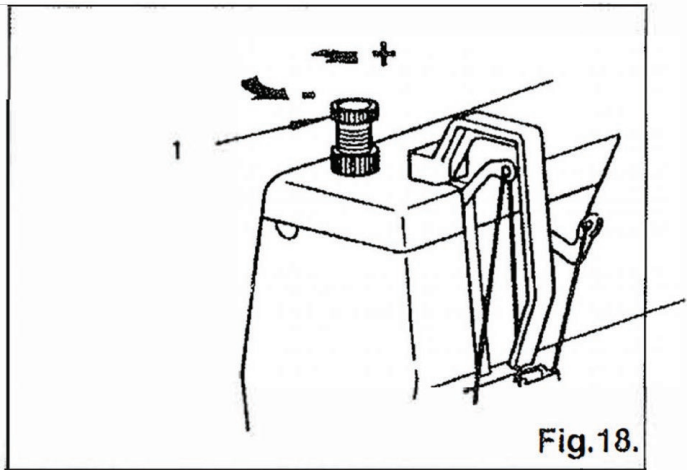


Fig.18.

To regulate the presser foot pressure, turn knurled thumb screw (1), Fig.18, toward left to right as required.
+.....More pressure
-.....Less pressure

14.TO ADJUST NEEDLE THREAD TENSION

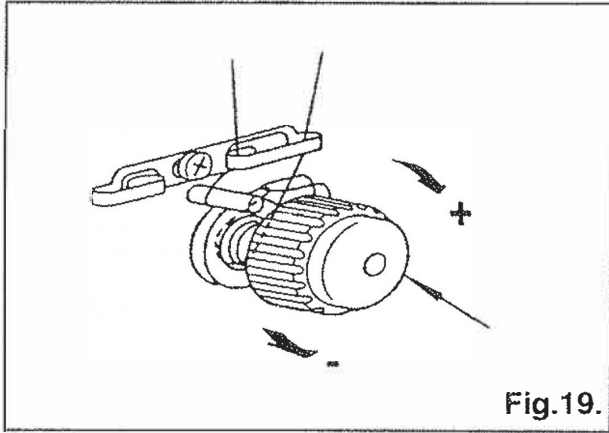


Fig.19.

Regulate needle thread tension with tension regulating knob (1), Fig.19.

- +.....More tension
-Less tension

15.REGULATING THE TAKE-UP SPRING

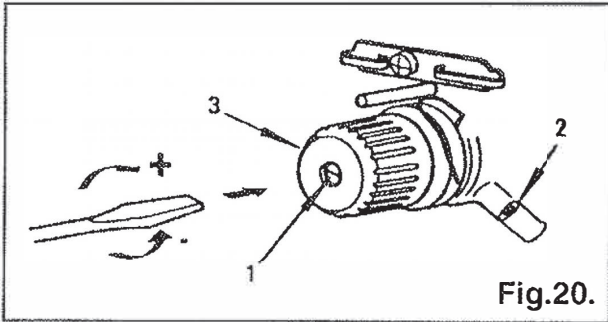


Fig.20.

Using a screwdriver in slot of stud (1), Fig.20, regulate take-up spring tension by turning stud (1), as required.

- +.....More tension
-Less tension

To adjust the amount of take-up spring movement, loosen screw (2), Fig.20, and set take-up spring height by turning the entire tension assembly (3) toward left or right, as required. Securely tighten screw (2).

16.TO ADJUST BOBBIN THREAD TENSION

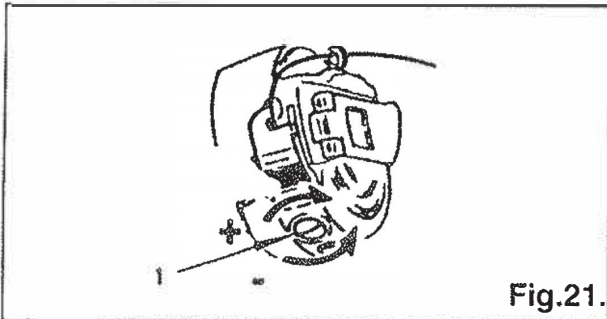


Fig.21.

Regulate bobbin thread tension with tension regulating screw (1), Fig.21.

- +.....More tension
-Less tension

17.NEEDLE POSITION SELECTOR

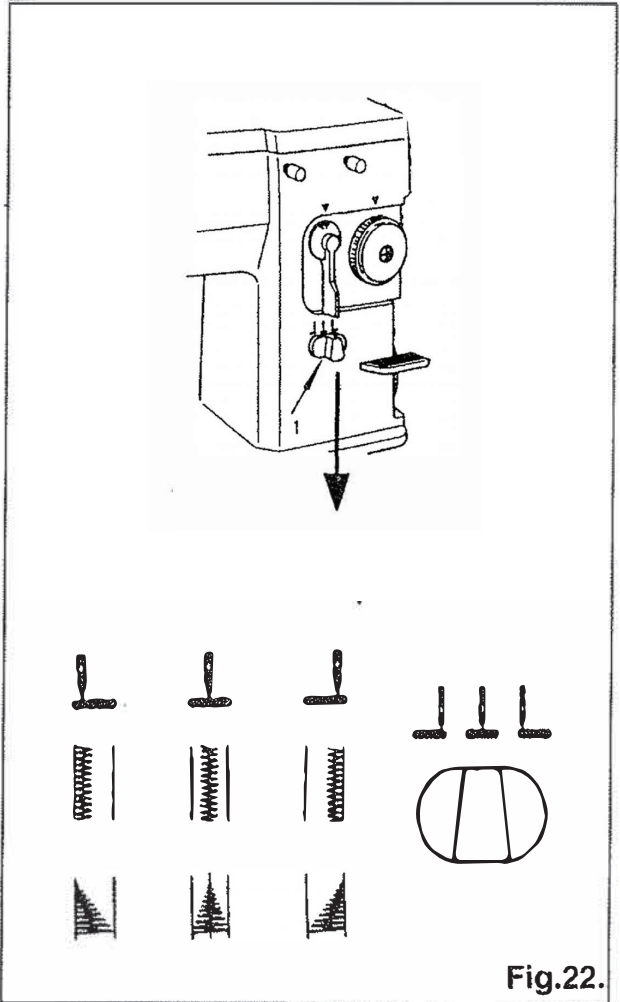


Fig.22.

		CAUTION
Switch off the machine.		

Left, Center and Right needle position settings are available for placement of both straight and zigzag stitching (see Fig.22).

To position, push lever in and move to desired setting.

Do not make any needle position adjustment while the needle is in the fabric.

18. STITCH WIDTH REGULATOR

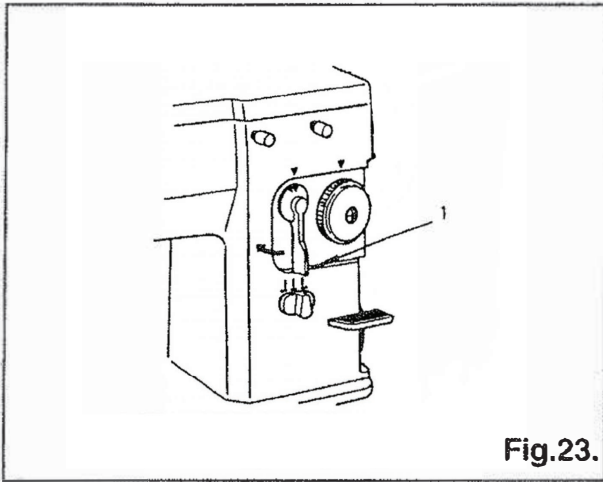


Fig. 23.

The width of zigzag stitch is controlled with the spring biased stitch width regulating lever (1), Fig. 23.

Maximum zigzag width;

20U73/73B	0-9 mm
20U83/83B	0-12 mm

Do not make any needle position adjustment while the needle is in the fabric.

19. HOW TO CONTROL THE WIDTH OF ZIGZAG STITCH

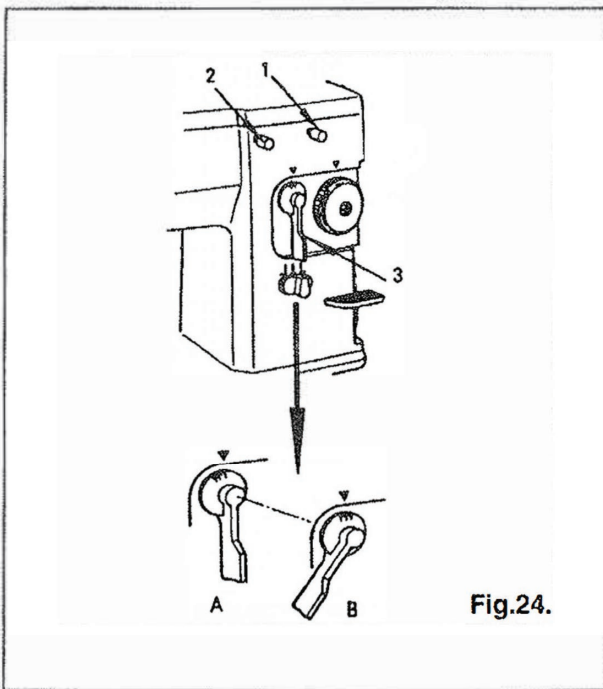


Fig. 24.

To obtain minimum to maximum width (20U73/73B: 9mm. 20U83/83B: 12mm) zigzag stitches, first loosen thumb screw (2), Fig. 24. to permit the stitch width regulator (3), Fig. 24 to return to its zero position (see A, Fig. 24) and retighten thumb screw (2).

Then loosen thumb screw (1), Fig. 24. turn stitch width regulator (3) clockwise as far as it will go and while holding the regulator (3) in this position (see B, Fig. 24), retighten thumb screw (1).

You can now regulate the stitch width regulator within the range of zero to maximum.

20. NEEDLE BAR FRAME CLAMPING DEVICE

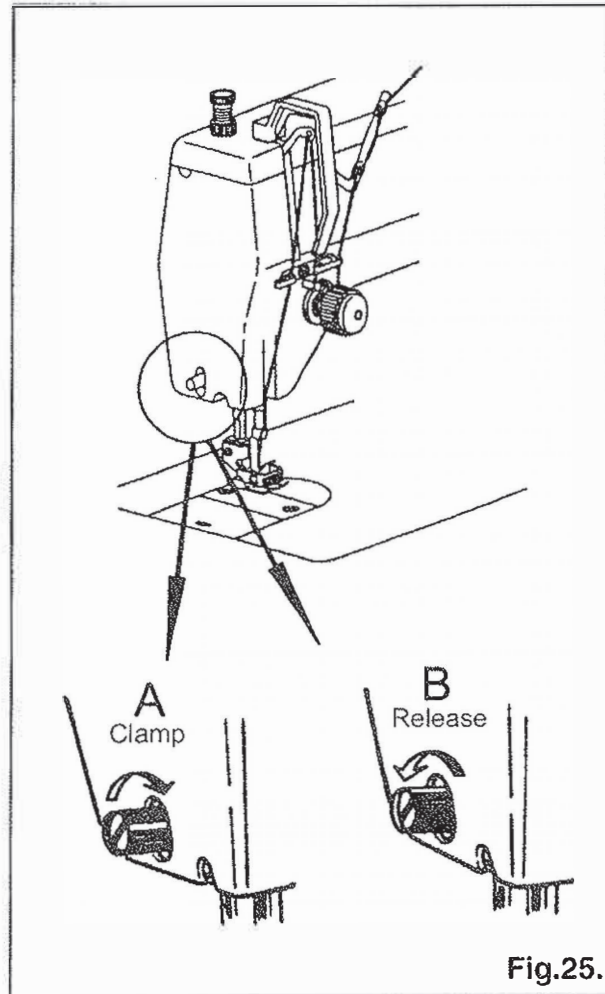
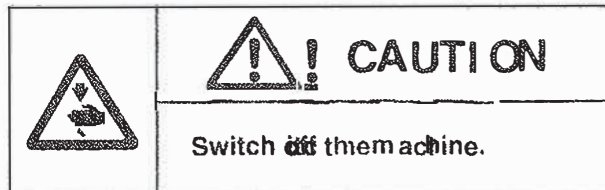


Fig. 25.

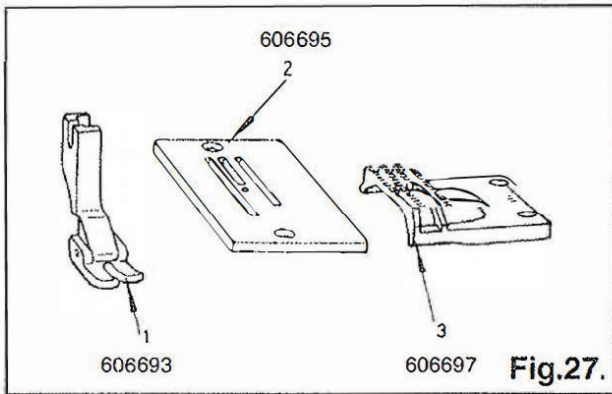
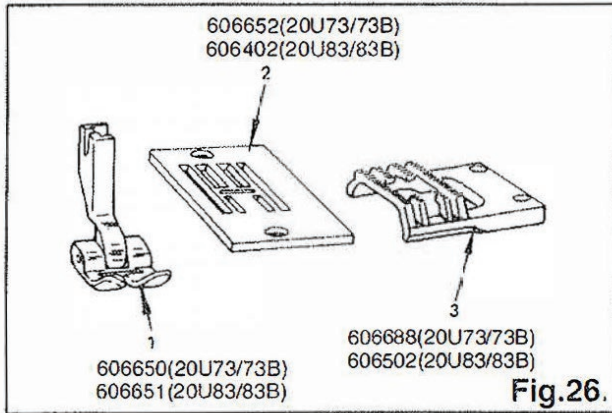


When straight stitching, a better sewing result can be obtained by locking the needle bar frame immovable with the clamping device (see Fig. 25).

A: Clamp

B: Release

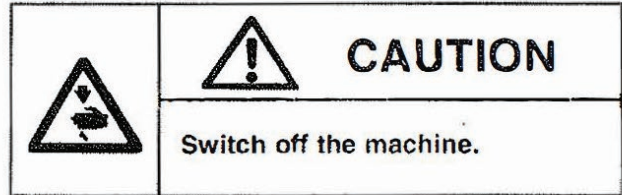
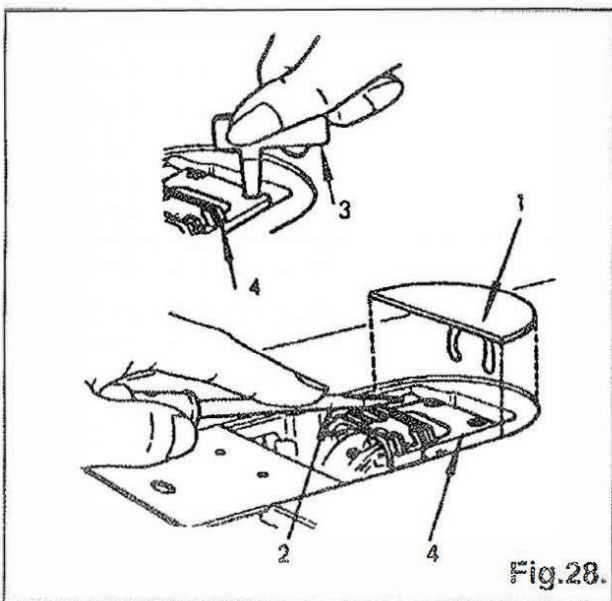
22. FITTING FOR STRAIGHT AND ZIGZAG STITCHING



General Purpose Presser Foot (1), Throat Plate (2) and Feed Dog (3) as shown in Fig.26, are used for straight and zigzag stitching.

Straight Stitch Presser Foot (1), Throat Plate (2) and Feed Dog (3) as shown in Fig.27, are used for straight stitching only.

23. CHANGING THE THROAT PLATE AND FEED DOG



1. Open bed slide, then remove throat plate. (Use screwdriver (3) Fig.28, furnished with machine for removal and replacement of throat plate and feed dog.)
2. Using a screwdriver (2), remove bed plate (1) and remove feed dog (4) (see Fig.28).
3. To replace general purpose or straight stitch feed dog, fasten feed dog to machine temporarily and replace general purpose or straight stitch throat plate. Set feed dog correctly in position so that it will not hit the edges of feed dog slots in the throat plate.
4. Replace bed plate and press it firmly in place.

27.KNEE LIFTER

TO MOUNT KNEE LIFTER

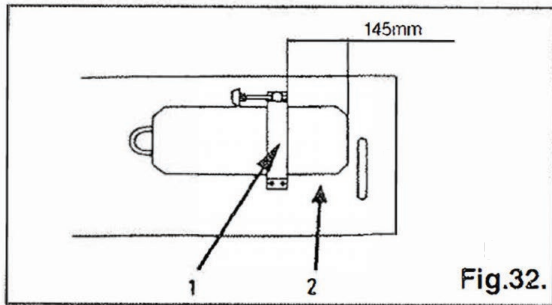
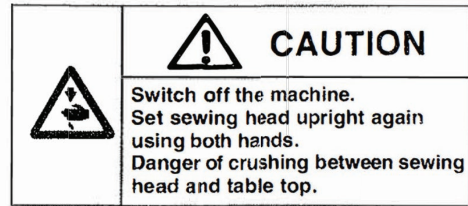


Fig.32.

Fasten knee lifter bracket (1) to underside of table (2) 145 mm from table cut-out as shown in Fig.32.



KNEE OPERATING PRESSER FOOT LIFT

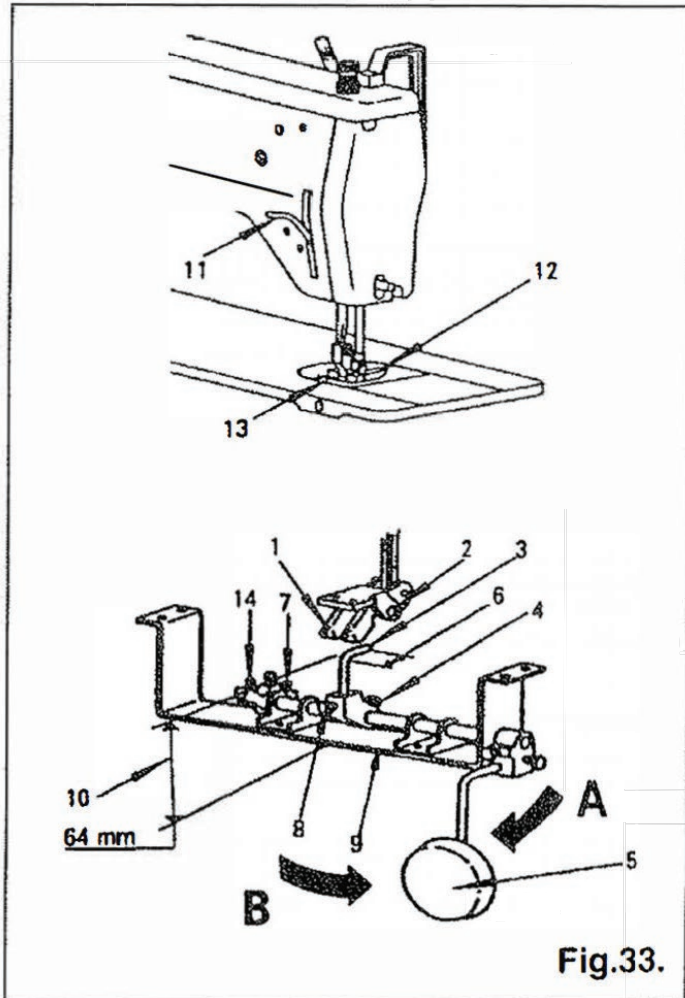


Fig.33.

Bell cranks (1) and (2) shown in Fig.33 are fastened to the underside of the bed. Bell crank (1) is used for lifting and lowering the presser foot with knee, and bell crank (2) is used for controlling the stitch width (see Fig.33).

To raise or lower the presser foot with knee, loosen screw (4) holding the knee lifter shaft arm (3) and move knee lifter shaft arm (3) just under the bell crank (1), and firmly tighten screw (4) (see Fig.33).

Loosen the lock nut holding screw (7) and turn screw (7) as required, so that the bent end (6) of knee lifter shaft arm (3) will be almost horizontal when knee lifter knee plate (5) is pushed as far as it will go in the direction indicated with arrow (A), then firmly tighten the lock nut (see Fig.33).

With knee lifter shaft arm (3) set in position as described above, loosen screw (8) and move knee lifter shaft arm (3) up or down as required, so that height (10) from its bent end (6) to bracket (9) is 64 mm (see Fig.33).

Raise presser foot (12) with presser foot lifter (11). Then loosen the lock nut holding screw (14) and turn screw (14) as required, so that knee lifter knee plate (5) when pushed in the direction indicated with arrow (B), will stop at a point (presser foot (12) raised approx.9 mm from throat plate (13) surface) where presser bar lifter (11) will drop down from its raised position when presser bar is lifted a little higher than its normal up position. Then firmly tighten the lock nut (see Fig.33).

When knee lifter knee plate (5) is pushed in the direction indicated with arrow (B), the presser foot (12) will rise and when knee plate (5) is released, presser foot (12) will be lowered (see Fig.33).

KNEE OPERATING STITCH WIDTH CONTROL

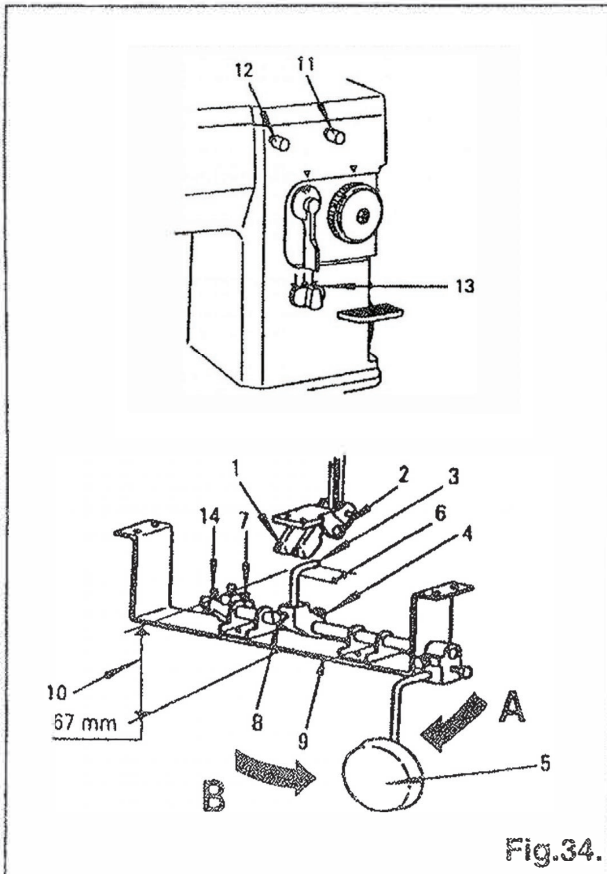
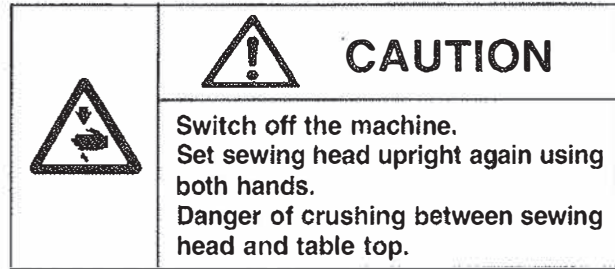


Fig.34.



Bell cranks (1) and (2) shown in Fig.34 are fastened to the underside of the bed. Bell crank (1) is used for lifting and lowering the presser foot with knee and bell crank (2) is used for controlling the stitch width.

To control the stitch width with knee, loosen screw (4) holding the knee lifter shaft arm (3) and move knee lifter shaft arm (3) just under the bell crank (2) and firmly tighten screw (4) (see Fig.34).

Loosen the lock nut holding screw (7) and turn screw (7) as required, so that the bent end (6) of knee lifter shaft arm (3) will be almost horizontal when knee lifter knee plate (5) is pushed as far as it will go in the direction indicated with arrow (A). Then firmly tighten the lock nut (see Fig.34).

With knee lifter shaft arm (3) set in position as described above, loosen screw (8) and move knee lifter shaft arm (3) up or down as required, so that height (10) from its bent end (6) to bracket is 67 mm (see Fig.34).

Loosen stitch width regulating plate thumb screws (11) and (12) so that stitch width regulator (13) can be moved from zero to maximum stitch width. (20U73/73B: 9mm, 20U83/83B: 12mm) (see Fig.34). Loosen the lock nut holding screw (14) and turn screw (14) as required, so that knee lifter knee plate (5) when pushed in the direction indicated with arrow (B), will stop at the maximum stitch width position of stitch width regulator (13). Then firmly tighten the lock nut (see Fig.34).

Stitch width will become wider when knee lifter knee plate (5) is pushed in the direction indicated with arrow (B) and will become smaller when knee plate is released (see Fig.34).

28.FITTINGS FOR BUTTONHOLE STITCHING

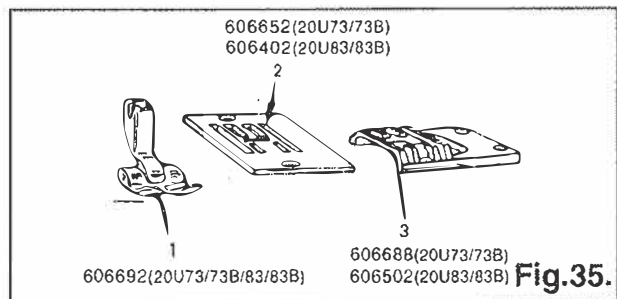
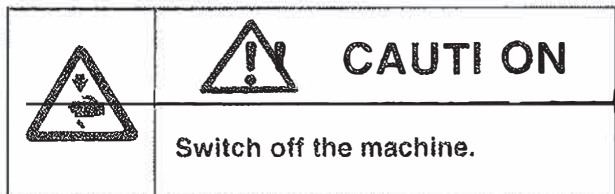
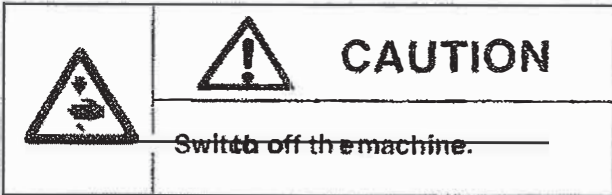
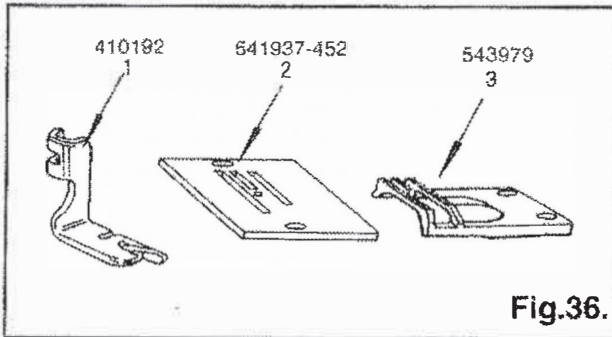


Fig.35.



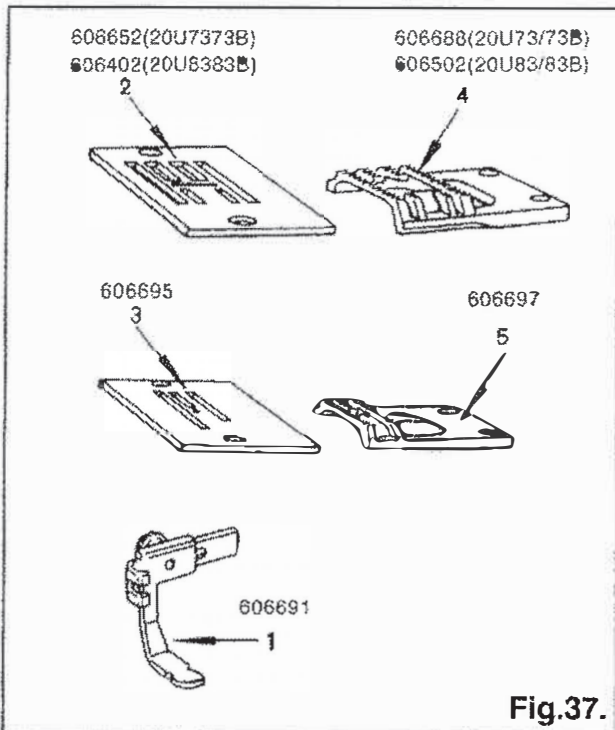
Buttonhole Foot (1), General Purpose Throat Plate (2) and Feed Dog (3) as shown in Fig.35 are used for buttonhole stitching.

29. FITTING FOR HEM SEWING



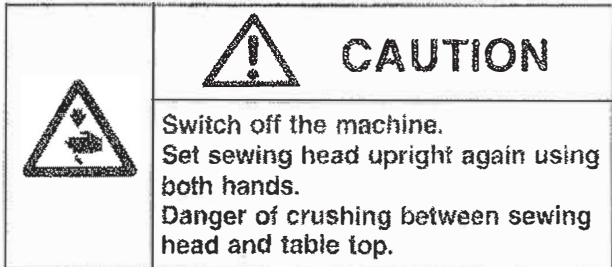
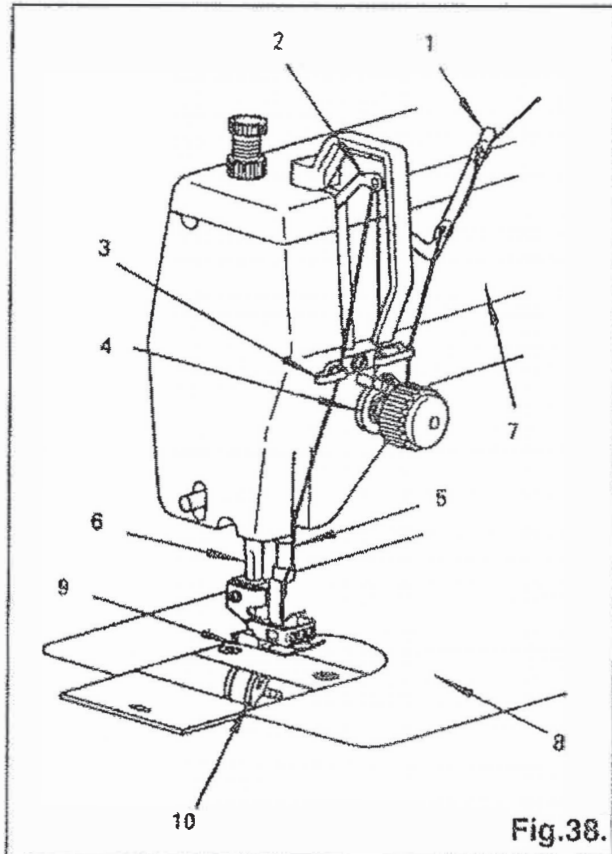
Hemmer Foot (1), Straight Stitch Throat Plate (2) and Feed Dog (3) as shown in Fig.36 are used for hem sewing.

30. FITTINGS FOR ZIPPER AND CORD SEWING



Zipper Foot (1), General Purpose (2) or Straight Stitch (3) Throat Plate and General Purpose (4) or Straight Stitch (5) Feed Dog as shown in Fig.37 are used for zipper and cord sewing.

31. CARING FOR YOUR MACHINE



Your RELIABLE machine will serve you perfectly for many years if you take a few moments of your time to keep it clean. How often you will need to clean and lubricate the machine will depend on how often you will use it. When in regular use, the machine should be cleaned periodically to remove lint and fluff which may have accumulated around the working parts. A machine in continuous use should be oiled frequently, especially when the machine is operated at maximum recommended speed.

With a soft cloth, clean; (See Fig.38)

- (1) Thread retainer
- (2) Take-up lever
- (3) Thread guard
- (4) Tension discs
- (5) Needle bar
- (6) Presser bar
- (7) Machine arm and bed

With a lint brush, clean; (See Fig.38)

- (9) Feed dog
- (10) Rotating hook and area under throat plate.

Turn hand wheel over toward you until oil hole in rotating hook appears in sight.

Apply one or two drops of oil to the oil hole.

33.SPECIFICATIONS

Machine class	73/73B	
For sewing	Light to medium	
Stitch type	301 (lock stitch), 304 (Zigzag lock stitch)	
Max. speed*	1,200 r.p.m.	
Max.stitch bight	9.0mm	
Max.stitch length	5.0mm	
Needle bar stroke	34.8mm	
Presser bar lift (manual)	6.35mm	
Presser bar lift (knee lifter)	9.0mm	
Needle catalog (needle system)	CAT.1910-05 (135X5)	
Needle size	See page 3 table "NEEDLE AND THREAD"	
Oil	"B" Oil	
Workspace width	211mm	
Workspace height	130mm	
Bedplate dimensions	399mmX178mm	
Net weight (head only)	19.5Kg	
Gross weight (with accessories)	21Kg	
Noise**	n=1,600 r.p.m. <76 dBA	

* Mzximum speed will vary depending on fabric, threads and sewing condition.

** Noise mesurment according to DIN 4563-45-A-1.





Relationship between zigzag bight and maximum speed

Machine class	73/73B	
Zigzag bright	0mm~5mm	5mm~9mm
Max. speed	2,500 r.p.m	2,000 r.p.m

Part No. 606625(1100)
Printed in China

1. Button Displays and operating instructions

1.1 Key Description

Function key enter parameter area		Under normal mode, press the [P] key to enter the user parameter mode Press and hold the [P] key to boot into parameter mode Technician
Enter and determine \ save button		Enter parameter values such items and their contents change after adjustment, need to press the [S] key to save the confirmation. Note: The parameters are saved directly by the [S] key.
On the adjustment key		1. Choose the region parameter items incrementing key 2. Parameter setting value incrementing key 3. Select the shortcut needle position
Under the adjustment key		1. Choose the region parameter items of diminishing key 2. Is decremented key parameter settings 3. Slow play seam selection shortcuts

2 User Parameter & Technician Parameter

Parameter	Parameter Function	Range	Default	Description
In the normal screen, press [P]				
P01	Maximum Sewing Speed (r/S)	200-2200	2200	Maximum speed of machine sewing
P02	Speed Curve Adjustment (%)	1-100	80	The Lager the value, the faster to increase speed
P03	Needle UP/ DOWN	0-1	1	UP: Needle Stops at Up Position DN: Needle Stops at Down Position
P07	Soft Start Speed (r/S)	200-1500	400	Soft Start Speed Adjustment
P08	Stitch Numbers for Soft Start	1-100	2	Soft Start Stitches Setting (one unit = half stitch)
P14	Soft Start	0-1	0	ON: Slow start feature is turned on. OFF: Slow start function off.
P15	Make up pin mode	0-4	2	0: Semi-pin; 1: a pin 2: Continuous filling half needle 3: Continuous injection
P24	Foot pedal reverse voltage	30-1000	110	
P30	Thick material angle	0-100	10	
P42	Information Display	N01-N07		N01 Electrically controlled version serial numbers N02 Selected needle cassette version N03 Speed N04 Pedals AD, N05 Positioning angle (0--359), N06 Under the positioning angle N07 Bus voltage AD
P43	Setting Direction of Motor Rotation	0-1	1	CW: Clockwise CCW: Counter Clockwise
Press and hold the [P] key to boot				
P44	Brake force	1-50	18	Efforts to stop the machine when selecting
P48	Low (Positioning) Speed (r/S)	100-500	210	Setting Positioning Speed
P56	Needles Goes Up Automatically as Power turned on	0-2	1	0: always not to find a position 1: : always looking for positioning 2: If the motor is positioned on the no longer find location (only with magnet motor)
P58	Up Position Adjustment	0-1440	40	Up Position Adjustment The needle will advance stop when the value decreased. The needle will delay stop when the value increased.

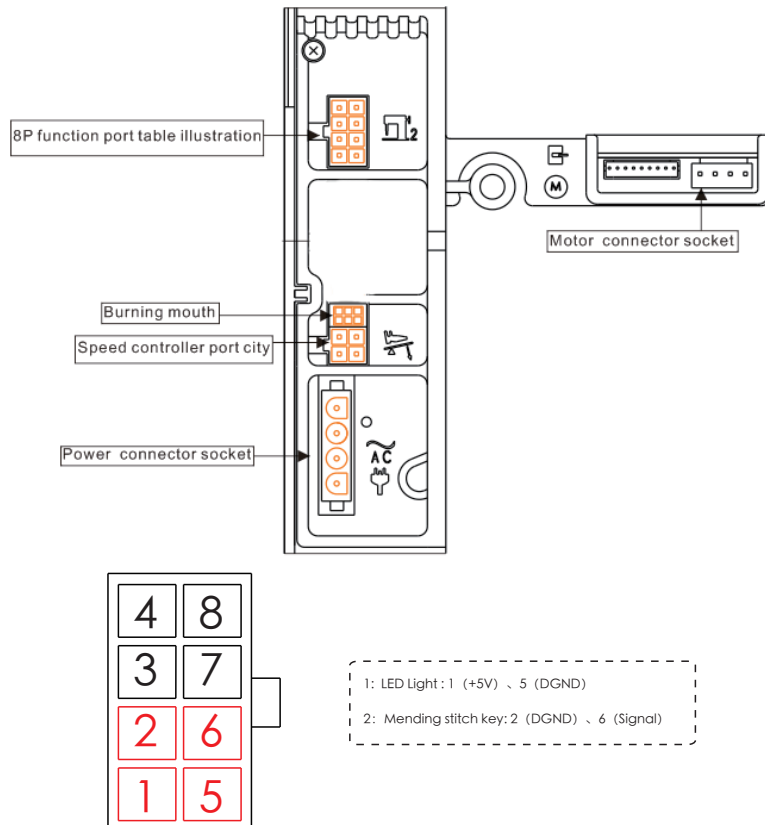
P59	Down Position Adjustment	0-1440	650	Down Position Adjustment The needle will advance stop when the value decreased. The needle will delay stop when the value increased.
P60	Testing Speed (r/S)	200-5000	2200	Setting testing speed.
P61	Testing A	0-1	0	Option of Testing A, after setting press 【060. TV】 to set the speed keep running.
P62	Testing B	0-1	0	Option of Testing B, after setting press 【060. TV】 to set the speed execute the cycle of Start – Sewing –Stop - Trimming
P63	Testing C	0-1	0	Option of Testing C, after setting press【060. TV】 to set the speed execute the cycle of Start – Sewing –Stop without positioning function
P64	Running Time of Testing B and C	1-250	20	Setting running time of testing B and C
P65	Stop Time of Testing B and C	1-250	20	Setting stop time of testing B and C
P66	Machine Protection Switch Testing	0-2	1	0: Disable, 1: Testing zero signal, 2: Testing positive signal
P67	Trimming Protection Switch Testing	0-1	0	OFF: Disable ON: Enable
Press and hold the [P], [S] key while the boot				
P70	The factory Type Selection	1-10		
P72	The needle position correction	0-1440		Hand rotation manual to the appropriate position, press S key to save
P73	Under needle position correction	0-1440		Hand rotation manual to the appropriate position, press S key to save
P84	Thick start angle	0-359	9	
P85	The thick end angle	0-359	57	
P92	Encoder start angle		160	View manual 1.5 chapter

3 Error Code List

Error Code	Problem	Strategies
E01	1) Power ON, the main voltage detection is too high 2) When the supply voltage is too high	Turn off the system power supply, and detect whether the supply voltage is correct. (Or exceed the rated voltage specified in use.) If correct, please replace the control box and inform the factory
E02	1) Power ON, the main voltage detection is too high 2) When the supply voltage is too high	Turn off the system power supply, and detect whether the supply voltage is correct. (Or exceed the rated voltage specified in use.) If correct, please replace the control box and inform the factory
E03	Operation panel and CPU transmission communication exception	Turn off the system power, check the operation panel interface is loose If contact is good, please change the operation panel. If it is not operated, the control box is damaged, please change
E05	Control of the contact of the device	Off the system power supply, check and control the connector is loose or fall off, Will resume normal after the restart system If you still can not work normally, please replace the speed controller and notify the manufacturer.

E07	<p>a) Motor plug wiring contact is not transferred</p> <p>b) Lock head or motor belt foreign body in the card die</p> <p>c) The machine is too thick, the motor torque is not enough.</p> <p>d) Module driven output exception</p>	<p>Rotating head motor hand wheel observation is stuck. If stuck, the first rule out mechanical failure. Such as rotation normal. Check the motor encoder connector and motor power cable joints are loose. If there is a loose please revise.</p> <p>Such as good contact. Check the supply voltage of the power supply voltage is too high or too high. If you have to adjust. As normal, please replace the control box and notify the manufacturer.</p>
E9 E11	Synchronizer signal error.	<p>Power off system. Check the motor encoder interface is loose or off. Will resume normal after the restart system.</p> <p>If you still can not work normally, please inform the factory and replace the motor.</p>
E14	Encoder signal exception	<p>Turn off the system power. Check the motor encoder interface is loose or off. Will resume normal after the restart system. If you still can not work normally, please replace the motor and notify the manufacturer.</p>
E15	Power module is not normal overcurrent protection	<p>Turn off the system power, and then restart. If you still can not work normally, please inform the factory and replace the motor.</p>
E17	Head protection switch is not in the correct position	<p>Turn off the system power, check the nose is opened, the head switch is damaged.</p>
E20	Motor starting failure	<p>After driving the motor does not rotate, do not look for the encoder reference point</p>

4. Port Outline Diagram



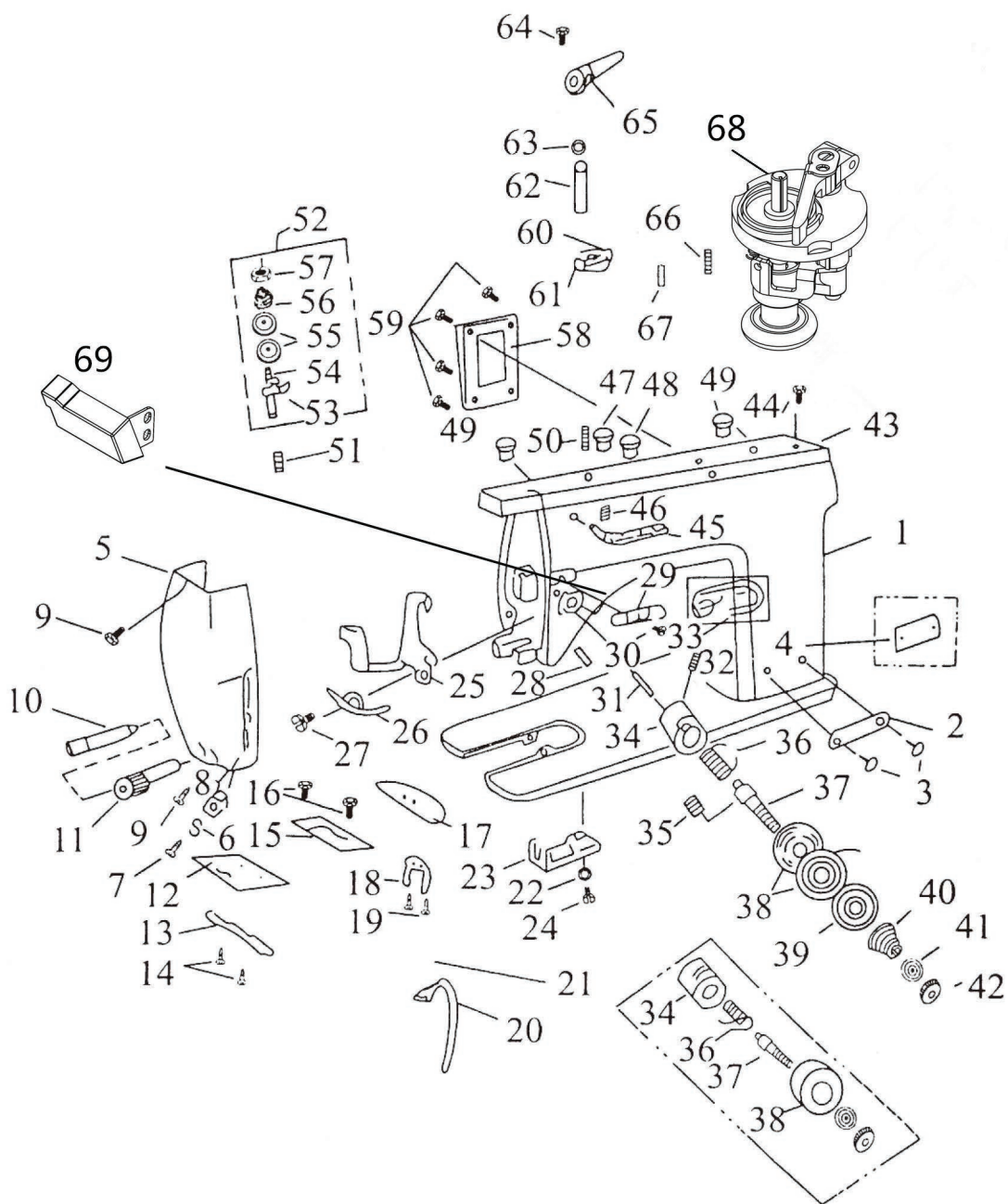
九、零件样本

IX. COMPONENT EXAMPLE

1、机壳部件 Components of housing

序号 Seri No.	图号 Code No.	名称 Description	适用产品 Products applicable			
			曲折缝 Curved- stitching	数量 Qty	双针曲折缝 Double Curved- stitching	数量 Qty
1	U43T1-0	机壳 Housing	√	1	√	1
2	U43T1-1-3	铭牌 Model-plate	√	1	√	
3	U43T1-1-7	铭牌铆钉 Model-plate rivet	√	2	√	2
4	U43T1-1-8	铭牌 Model-plate			√	1
5	U43T1-2-1	面板 Face plate	√	1	√	1
6	U43T1-2-3	面板线勾 Face plate thread guide	√	1	√	1
7	U43T1-2-2	面板线勾螺钉 thread guide screw	√	1	√	1
8	U43T1-2-3	面板线勾螺母 thread guide nut	√	2	√	2
9	U43T1-3	面板螺钉 Face Plate screw	√	2	√	2
10	U43T1-4	直缝锁紧偏心螺钉 Linear lock eccentric screw	√	1	√	1
11	U43T1-5	直缝锁紧偏心 Linear lock eccentric	√	1	√	1
12	U43T1-6-1	推板 Thrust plate	√	1	√	1
13	U43T1-6-2	推板簧 Thrust plate spring	√	1	√	1
14	U43T1-6-3	推板簧螺钉 Thrust plate spring screw	√	2	√	2
15	U43T1-7	针板 Needle plate	√	1	√	1
16	U43T1-8	针板螺钉 Needle plate screw	√	2	√	2
17	U43T1-9-1	针板内盖板 Inner cover plate	√	1	√	1
18	U43T1-9-2	针板内盖板簧 Cover plate spring	√	1	√	1
19	U43T1-9-3	针板内盖板螺钉 Cover plate spring Screw	√	2	√	2
20	U43T1-10	挑线杆防护罩 Thread take up lever shield	√	1	√	1
21	U43T1-11	挑线杆防护罩螺钉 Shield screw	√	1	√	1
22	U43T1-12	垫圈 Washer	√	1	√	1
23	U43T1-13	旋梭防护罩 Rotating hook shield	√	1	√	1
24	U43T1-14	旋梭护罩螺钉 Rotating hook shield screw	√	1		
25	U43T1-15	松线杠杆 Thread-releasing lever	√	1		
26	U43T1-16	松线杠杆扭簧 Thread-releasing lever spring	√	1		
27	U43T1-17	松线杠杆螺钉 Thread-releasing lever screw	√	1	√	1
28	U43T1-18	下过线钉 Lower thread-running pin	√	1		
29	U43T1-19	双过线架 Double thread-running rack	√	1	√	1
30	U43T1-20	双过线架螺钉 Thread-running rack screw	√	1	√	1
31	U43T1-21	松线钉 Thread-releasing pin	√	1	√	1
32	U43T1-22	夹线器紧定螺钉 Thread-hold fixing screw	√	1	√	1
33	U43T1-19a	双过线架 Thread-running rack		1		
34	U43T1-23-1	夹线器调节座 Thread Tension regulator bushing	√	1		1
35	U43T1-23-2	夹线器螺钉紧固螺钉 Fixing screw	√	1	√	
36	U43T1-23-3	挑线簧 Thread take-up spring	√	1		
37	U43T1-23-4	夹线螺钉 Thread tension stud	√	1		
38	U43T1-23-5	夹线板 Thread tension disc	√	2		
39	U43T1-23-6	松线板 Thread tension-releasing disc	√	1		
40	U43T1-23-7	夹线簧 Thread tension spring	√	1		
41	U43T1-23-8	夹线制动板 Thumb nut revolution stopper	√	1	√	1
42	U43T1-23-9	夹线螺母 Thumb nut	√	1	√	1

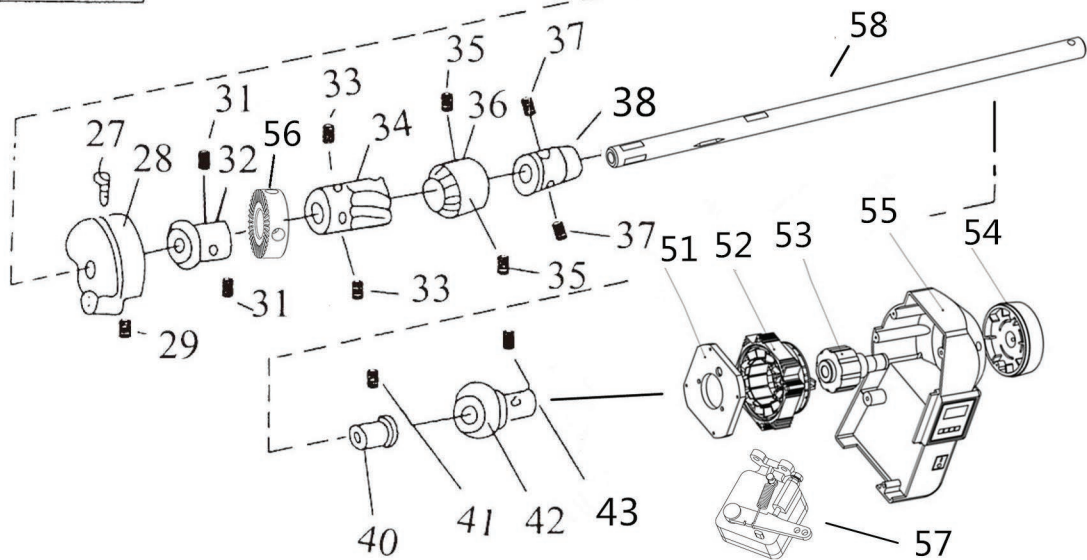
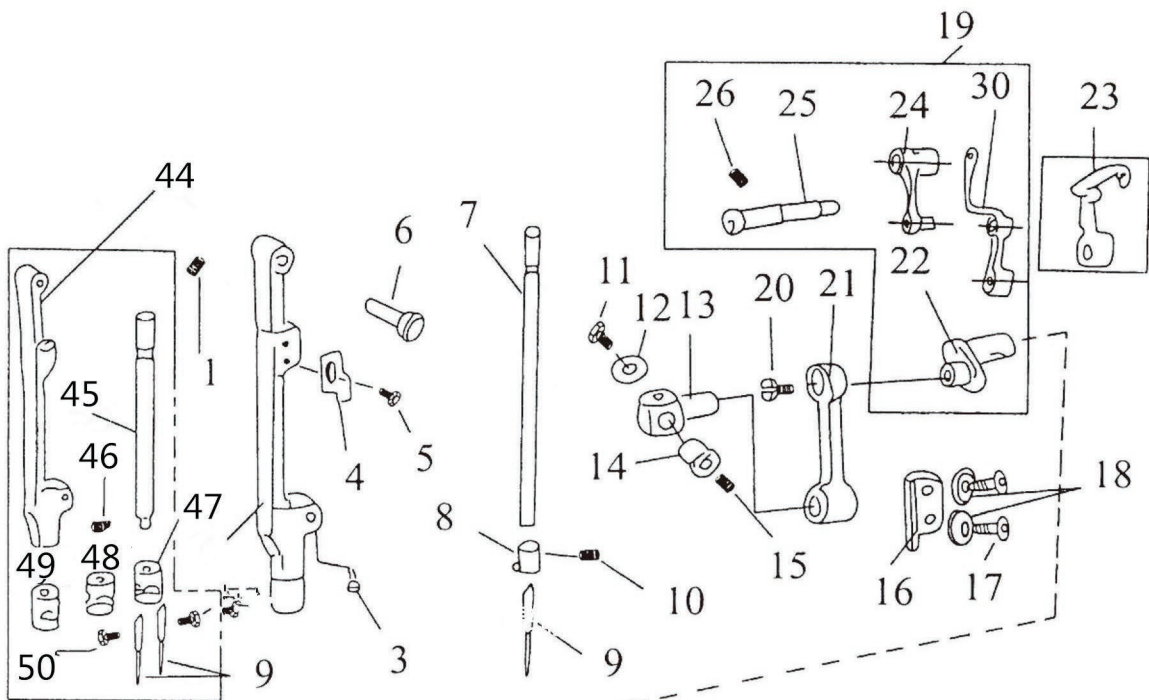
序号 Seri No.	图号 Code No.	名称 Description	适用产品 Products applicable			
			曲折缝 Curved- stitching	数量 Qty	双针曲折缝 Double Curved- stitching	数量 Qty
43	U43T1-24	上盖 Upper cover	√	1		
44	U43T1-25	上盖后螺钉 Upper cover back screw	√	1	√	1
45	U43T1-26	三眼线勾 3-eyelet hole thread guide	√	1	√	1
46	U43T1-27	三眼线勾螺钉 3-eyelet hole thread guide screw	√	1	√	1
47	U43T1-28	橡皮塞(大) Rubber plug(big)	√	1	√	1
48	U43T1-29	橡皮塞(中) Rubber plug(medinm)	√	1	√	1
49	U43T1-30	橡皮塞(小) Rubber plug(small)	√	1	√	1
50	U43T1-31	上盖定位螺钉 Upper cover set screw	√	2	√	2
51	U43T1-32	上盖夹线螺钉紧定螺钉 Fastening screw	√	1	√	1
52	U43T1-33-0	上盖夹线板组件 Upper thread-guide component	√	1	√	1
53	U43T1-33-1	双眼过线板 Thread-guide			√	1
54	U43T1-33-2	上夹线螺钉 Thread-tension stud			√	1
55	U43T1-33-3	上夹线板 Upper thread-tension disc	√	2	√	2
56	U43T1-33-4	上夹线簧 Upper thread-tension spring	√	1	√	1
57	U43T1-33-5	上夹级螺母 Nut	√	1	√	1
58	U43T1-34	后盖板 Back cover	√	4	√	4
59	U43T1-35	后盖板螺钉 Back cover screw	√	1	√	1
60	U43T1-37	绕线定位块紧定螺钉 locating block set screw	√	1	√	1
61	U43T1-37-1	绕线定位块 Locating block	√	1	√	1
62	U43T1-38	绕线量调节轴 Volume-adjusting spindle	√	1	√	1
63	U43T1-39	绕线量调节轴挡圈 Washer	√	1	√	1
64	U43T1-40	调节压板螺钉 Pressing plate screw	√	1	√	1
65	U43T1-41	绕线量调节压板 Volume-adjusting plate	√	1	√	1
66	U43T1-42	绕线摆杆拉簧 Extension spring pin	√	1	√	1
67	U43T1-43	拉簧销钉 Extension spring	√	1	√	1
68	U43T1-52	绕线器组件 Bobbin winder asm	√	1	√	1
69	U43T1-53	工作灯 LED light	√	1	√	1



2、挑线刺料部件 Thread take-up and needle bar components

序号 Seri No.	图号 Code No.	名称 Description	适用产品 Products applicable			
			曲折缝 Curved- stitching	数量 Qty	双针曲折缝 Double Curved- stitching	数量 Qty
1	U43T2-2	针杆摆动销螺钉 Pin screw(swaying rack of needle staff)	✓	1	✓	1
2	U43T2-3	针杆摆动架 Swaying rack of needle bar	✓	1		
3	U43T2-4	针杆偏心肖螺钉 Eccentric pin screw of needle bar	✓	1	✓	1
4	U43T2-5	针杆定位片 Locating plate of needle bar	✓	1	✓	1
5	U43T2-6	针杆定位片螺钉 Screw of locating plate	✓	1	✓	1
6	U43T2-7	针杆摆动架销 Ping of swaying rack(needle bar)	✓	1	✓	1
7	U43T2-8	针杆 Needle bar	✓	1		
8	U43T2-9	针杆线勾 Thread-guide of needle bar	✓	1		
9	U43T2-10	机针 Needle	✓	1	✓	2
10	U43T2-11	机针紧定螺钉 Locking screw of needle	✓	1		
11	U43T2-12	针杆连接轴销螺钉 Pin-screw of connecting shaft	✓	1	✓	1
12	U43T2-13	针杆连接轴销垫圈 Pin-washer of connecting shaft	✓	1	✓	1
13	U43T2-14	针杆连接轴体 Connecting shaft	✓	1	✓	1
14	U43T2-15	针杆连接轴销 Pin of connecting shaft	✓	1	✓	1
15	U43T2-16	针杆连接轴销紧定螺钉 Pin-locking screw of connecting shaft	✓	1	✓	1
16	U43T2-17	小连杆导板 Guide of small connecting staff	✓	1	✓	1
17	U43T2-18	小连杆导板螺钉 Screw of guide	✓	2	✓	2
18	U43T2-19	小连杆导板垫圈 Guide washer	✓	2	✓	2
19	U43T2-20-0	挑线杆组件 Thread take-up lever component	✓	1	✓	1
20	U43T2-20-1	倒牙螺钉 Left-spiral screw	✓	1	✓	1
21	U43T2-20-2	小连杆 Small connecting staff	✓	1	✓	1
22	U43T2-20-3	针杆曲柄 Crank of needle bar	✓	1	✓	1
23	U43T2-20-4	挑线摇杆 Stitch-swaying staff	✓	1	✓	1
24	U43T2-20-5	挑线摇杆 Stitch-swaying staff	✓	1	✓	1
25	U43T2-20-6	挑线摇杆销 Pin of swaying staff	✓	1	✓	1
26	U43T2-20-7	挑线摇杆销螺钉 Pin screw of swaying staff	✓	1	✓	1
27	U43T2-20-8	挑线曲柄螺钉 Screw of crank	✓	1	✓	1
28	U43T2-20-9	挑线曲柄 Crank	✓	1	✓	1
29	U43T2-20-10	针杆曲柄紧固螺钉 Crank fastening screw	✓	1	✓	1
30	U43T2-20-11	挑线杆 Thread take-up lever	✓	1		
31	U43T2-21	上轴前轴套紧定螺钉 Fastening screw(of front sleeve)	✓	1	✓	1
32	U43T2-22	上轴前轴套 Front sleeve of upper shaft	✓	1	✓	1
33	U43T2-23	上轴螺旋齿轮螺钉 Screw of spiral gear	✓	2	✓	2
34	U43T2-24	上轴螺旋齿轮 Spiral gear of upper shaft	✓	1	✓	1
35	U43T2-25	上轴弧齿锥齿轮螺钉 Screw of arc-cone gear	✓	2	✓	2
36	U43T2-26	上轴弧齿锥齿轮 Arc-cone gear (upper shaft)	✓	1	✓	1
37	U43T2-27	送布凸轮螺钉 Screw of feed cam	✓	2	✓	2
38	U43T2-28	送布凸轮 Feed cam	✓	1	✓	1
39	U43T2-29	上轴 Upper shaft	✓	1	✓	1

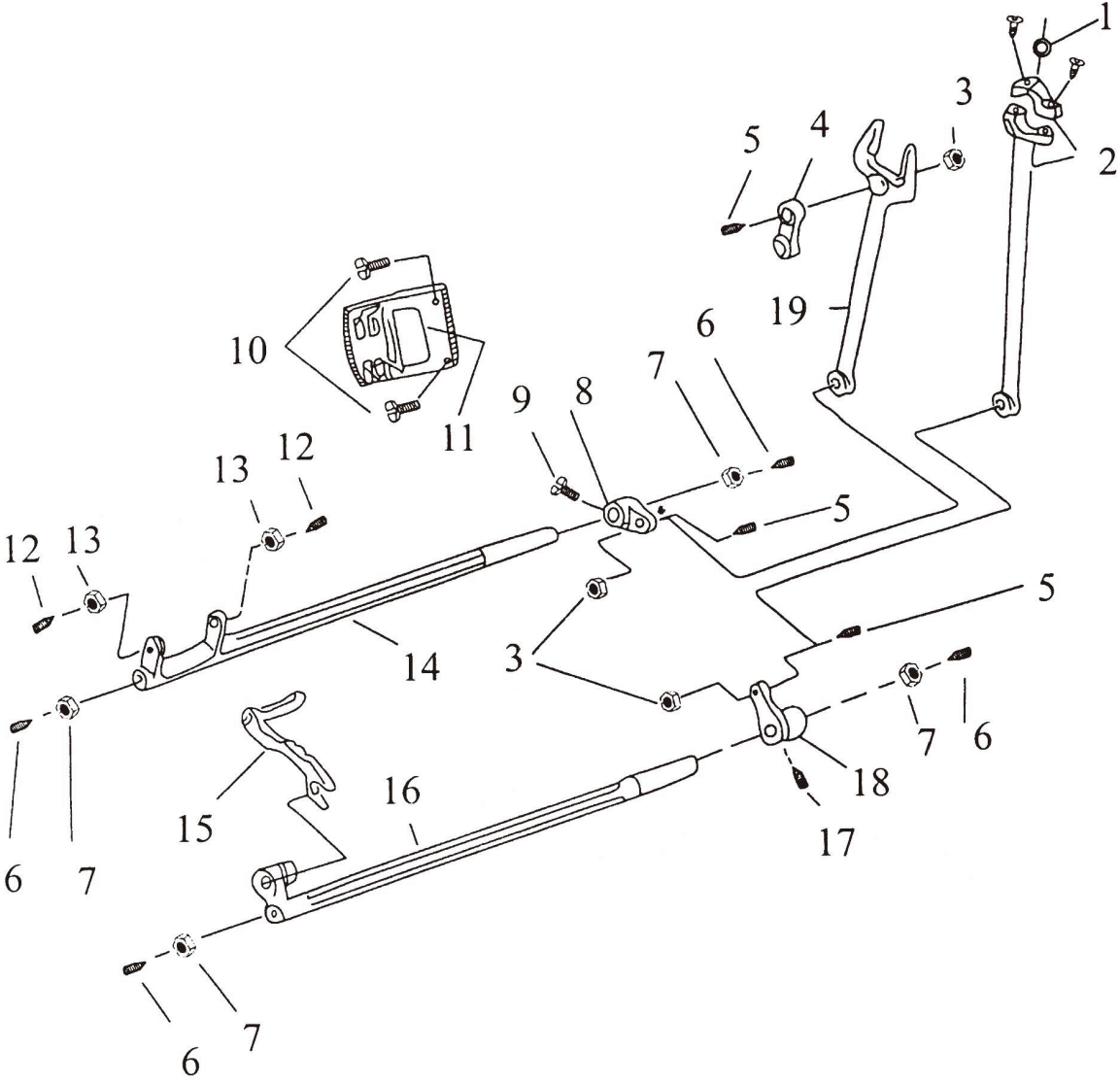
序号 Seri No.	图号 Code No.	名称 Description	适用产品 Products applicable			
			曲折缝 Curved- stitching	数量 Qty	双针曲折缝 Double Curved- stitching	数量 Qty
40	U43T2-30	上轴后轴套 Back sleeve of upper shaft	√	1	√	1
41	U43T2-31	上轴后轴套螺钉 Fastening screw of back sleeve	√	1	√	1
42	U43T2-32	上轮套筒 Sleeve of balance wheel	√	1	√	1
43	U43T2-33	上轮套螺钉 Sleeve screw	√	1	√	1
44	U43T2-39	针杆摆动架 Swaying rack of needle bar			√	1
45	U43T2-40	双针针杆 Needle har for double needle			√	1
46	U43T2-41	双针扎头紧固螺钉 Fastening screw of double needle clamper			√	1
47	U43T2-42	双针扎头 Double needle clamper (2.5mm)			√	1
48	U43T2-43	双针扎头 Double needle clamper (3.5mm)			√	1
49	U43T2-44	双针扎头 Double needle clamper (4.5mm)			√	1
50	U43T2-45	机针紧定螺钉 Fastening screw			√	2
51	U43T2-46	直驱底座 Motor base	√	1	√	1
52	U43T2-47	定子 Stator	√	1	√	1
53	U43T2-49	转子 Rotor	√	1	√	1
54	U43T2-48	直驱皮带轮 belt wheel	√	1	√	1
55	U43T2-50	电机罩 Motor cover	√	1	√	1
56	U43T2-51	驱动轮 Driving wheel	√	1	√	1
57	U43T2-52	脚踏开关 The speed control pedal	√	1	√	1
58	U43T2-53	直驱上轴 Upper shaft	√	1	√	1
59						
60						
61						



3、送料部件 Materiml-feeding components

序号 Seri No.	图号 Code No.	名称 Description	适用产品 Products applicable			
			曲折缝 Curved- stitching	数量 Qty	双针曲折缝 Double Curved- stitching	数量 Qty
1	U43T3-1	油毡 Oil felt	√	1	√	1
2	U43T3-2	拾牙连杆组件 Lift feed connecting bar	√	1	√	1
3	U43T3-4	小圆锥螺母 Small come nut	√	4	√	4
4	U43T3-5	针距座连杆 Connecting bar of needle distance base	√	1	√	1
5	U43T3-6	小圆锥螺钉 Small cone screw	√	4	√	4
6	U43T3-7	大顶尖螺钉 Pointed screw	√	4	√	4
7	U43T3-8	大顶尖螺母 Pointed nut	√	4	√	4
8	U43T3-9	送布曲柄 Feed crank	√	1	√	1
9	U43T3-10	送布曲柄螺钉 Feed crank screw	√	1	√	1
10	U43T3-11	送布牙螺钉 Feed crank screw	√	2	√	2
11	U43T3-12	送布牙 Feed dog	√	1	√	1
12	U43T3-13	小顶尖螺钉 Pointed screw of tooth rack	√	2	√	2
13	U43T3-14	小顶尖螺帽 Point nut	√	2	√	2
14	U43T3-15	送布轴 Feed rock	√	1	√	1
15	U43T3-16	牙架 Tooth rack	√	1	√	1
16	U43T3-17	拾牙轴组件 Feed lifting rock shatt component	√	1	√	1
17	U43T3-18	拾牙曲柄螺钉 Feed lifting rock crank screw	√	1	√	1
18	U43T3-19	拾牙曲柄 Feed lifting rock crank	√	1	√	1
19	U43T3-20	牙叉 Feed fork connecting rod	√	1	√	1

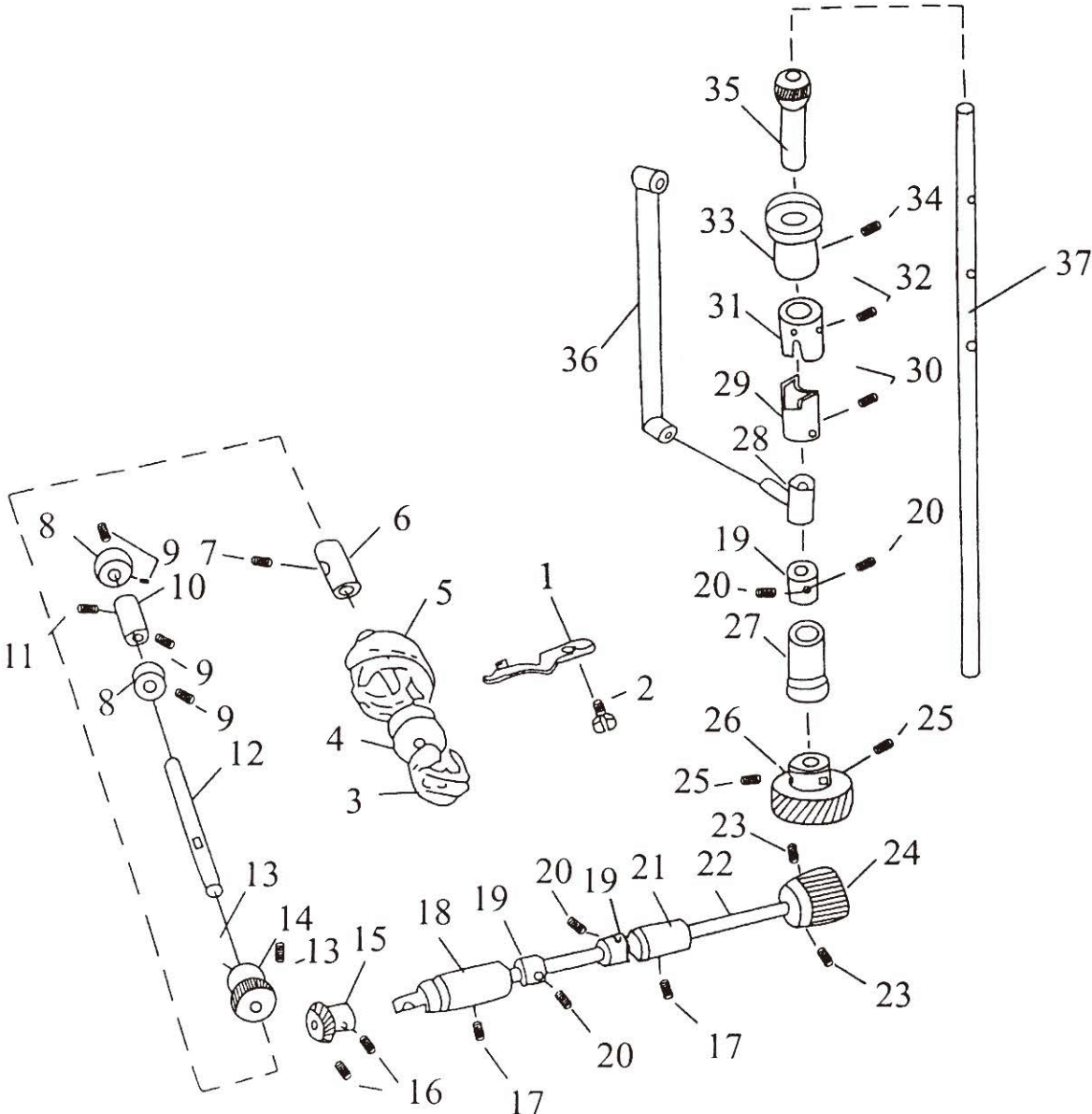
3、送料部件 Materiml-feeding components



4、勾线部件 Thread-hooking Components

序号 Seri No.	图号 Code No.	名称 Description	适用产品 Products applicable			
			曲折缝 Curved- stitching	数量 Qty	双针曲折缝 Double Curved- stitching	数量 Qty
1	U43T4-1	旋梭定位板 Locating plate of rotating hook	√	1	√	1
2	U43T4-2	旋梭定位板螺钉 Screw of locating plate	√	1	√	1
3	U43T4-3	梭心套 Bobbin case	√	1	√	1
4	U43T4-4	梭心 Bobbin	√	1	√	1
5	U43T4-5	旋梭 Rotating hook	√	1	√	1
6	U43T4-6	旋梭轴前轴套 Front sleeve of rotating hook shaft	√	1	√	1
7	U43T4-7	旋梭轴前轴套螺钉 Front sleeve screw	√	1	√	1
8	U43T4-8	旋梭轴挡圈 Retainer of rotating hook shaft	√	2	√	2
9	U43T4-9	旋梭轴挡圈螺钉 Retainer screw	√	4	√	4
10	U43T4-10	旋梭轴后轴套 Back sleeve of rotating hook shaft	√	1	√	1
11	U43T4-11	旋梭轴后轴套螺钉 Screw of back sleeve	√	1	√	1
12	U43T4-12	旋梭轴 Rotating hook shaft	√	1	√	1
13	U43T4-13	旋梭轴弧齿锥齿轮螺钉 Screw of arc-cone gear	√	2	√	2
14	U43T4-14	旋梭轴弧齿锥齿轮 Arc-cone gear of rotating hook shaft		1		1
15	U43T4-15	下轴弧齿锥齿轮 Arc-cone gear of lower shaft	√	1	√	1
16	U43T4-16	下轴弧齿锥齿轮螺钉 Screw of Arc-cone gear	√	2	√	2
17	U43T4-17	下轴前后轴套螺钉 Screw	√	2	√	2
18	U43T4-18	下轴前轴套 Front sleeve of lower shaft	√	1	√	1
19	U43T4-19	下轴(立轴)挡圈 Lower shaft retainer	√	3	√	3
20	U43T4-20	下轴(立轴)挡圈螺钉 Retainer screw of lower shaft	√	6	√	6
21	U43T4-21	下轴后轴套 Back sleeve of lower shaft	√	1	√	1
22	U43T4-22	下轴 Lower shaft	√	1	√	1
23	U43T4-23	下轴差动齿轮螺钉 Screw of differential gear(lower shaft)		2		2
24	U43T4-24	下轴差动齿轮 Differential gear	√	1	√	1
25	U43T4-25	立轴差动齿轮螺钉 Screw of differential gear	√	2	√	2
26	U43T4-26	立轴差动齿轮 Differential gear(vertical shaft)	√	1	√	1
27	U43T4-27	立轴下轴套 Lower sleeve of vertical shaft	√	1	√	1
28	U43T4-28	差动滑套 Differential shaft sliding-sleeve	√	1	√	1
29	U43T4-29	下离合套筒 Lower clutch sleeve	√	1	√	1
30	U43T4-30	下离合套筒螺钉 Screw	√	2	√	2
31	U43T4-31	上离合套筒 Upper sleeve of vertical shaft	√	1	√	1
32	U43T4-32	上离合套筒螺钉 Screw	√	2	√	2
33	U43T4-33	立轴上轴套 Upper sleeve of vertical shaft	√	1	√	1
34	U43T4-34	立轴上轴套螺钉 Screw of upper sleeve	√	1	√	1
35	U43T4-35	立轴弧齿锥齿轮 Arc-cone gear	√	1	√	1
36	U43T4-36	大差动连杆 Differential connecting bar	√	1	√	1
37	U43T4-37	立轴 Vertical shaft	√	1	√	1

4、勾线部件 Thread-hooking Components

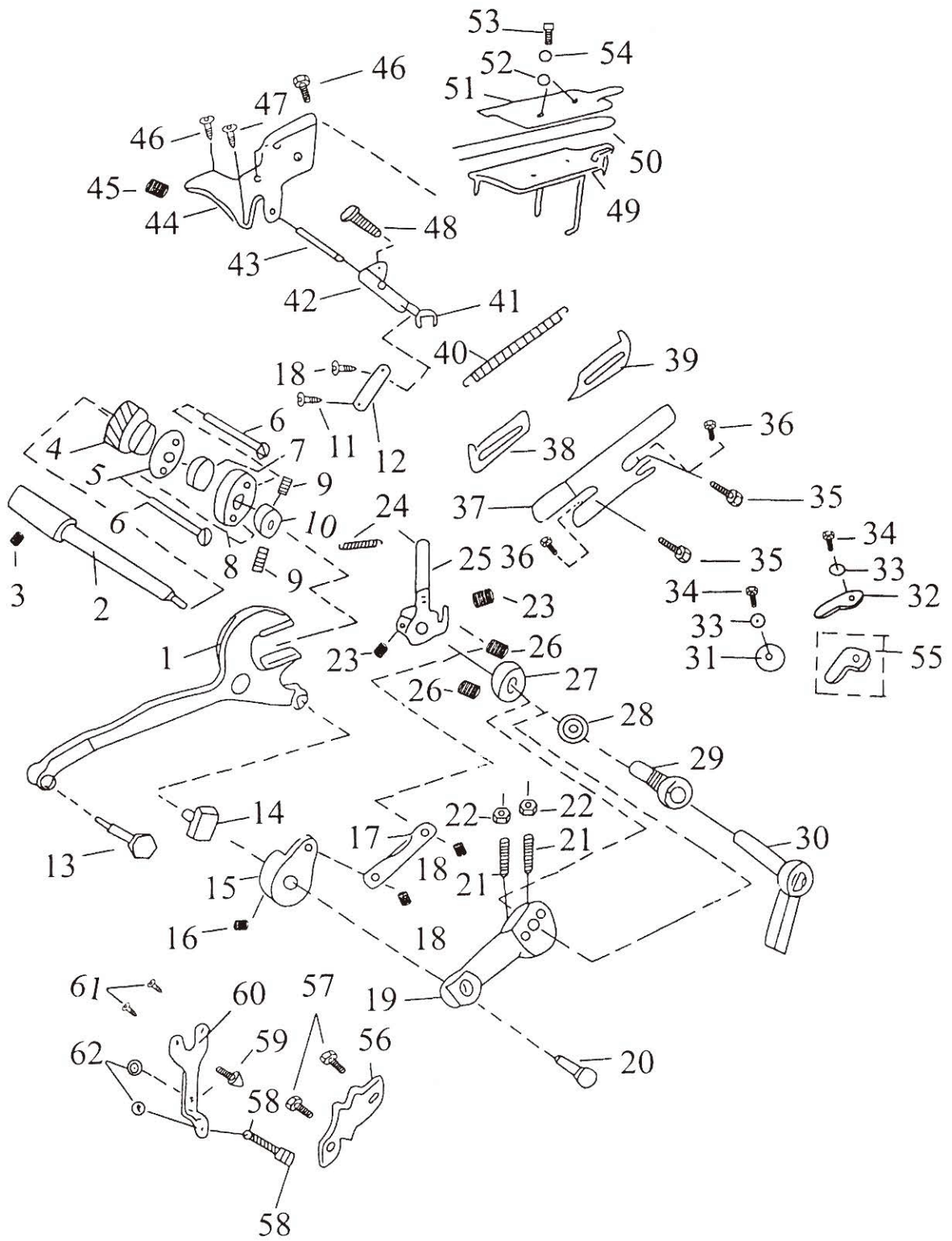


5、摆针部件 Components of Swaying needle

序号 Seri No.	图号 Code No.	名称 Description	适用产品 Products applicable			
			曲折缝 Curved- stitching	数量 Qty	双针曲折缝 Double Curved- stitching	数量 Qty
1	U43T5-1	横针拨叉 Horizontal needle fork	√	1	√	1
2	U43T5-2	摆针轴 Shaft of swaying needle	√	1	√	1
3	U43T5-3	摆针轴螺钉 Screw	√	1	√	1
4	U43T5-4	摆针齿轮 Gear of swayinn needle	√	1	√	1
5	U43T5-5	偏心挡圈 Eccentric retainer	√	1	√	1
6	U43T5-6	摆针偏心凸轮连接螺钉 Connecting screw	√	2	√	2
7	U43T5-7	摆针偏心凸轮 Eccentric retainer	√	1	√	1
8	U43T5-8	摆针偏心凸轮后挡圈 Rack retainer	√	1	√	1
9	U43T5-9	摆针轴挡圈螺钉 Retainer screw	√	2	√	2
10	U43T5-10	摆轴轴挡圈 Retainer shaft	√	1	√	1
11	U43T5-11	摆针滑块连接螺钉 Connecting screw	√	1	√	1
12	U43T5-12	小左动连杆 Differential connecting bar	√	1	√	1
13	U43T5-13	针杆偏心销 Eccentric pin of needle bar	√	1	√	1
14	U43T5-14	摆针滑块 Sliding block of swaying needle	√	1	√	1
15	U43T5-15	摆针导块座 Guide base of swaying needle	√	1	√	1
16	U43T5-16	摆针导块座螺钉 Screw of guie base	√	1	√	1
17	U43T5-17	摆针调节连杆 Adjustable connecting bar	√	1	√	1
18	U43T5-18	差动连杆连接螺钉 Connecting screw of differential connecting bar	√	3	√	3
19	U43T5-19	摆针定位块 Locating block of swaying needle	√	1	√	1
20	U43T5-20	摆针定位块连接销 Connecting pin of guide	√	2	√	2
21	U43T5-21	摆针定位块调节螺钉 Adjusting screw of locating block	√	2	√	2
22	U43T5-22	摆针定位块紧定螺母 Fastening nut of locating crank	√	2	√	2
23	U43T5-23	摆针调节曲柄套螺钉 Screw for adjusting crank sleeve	√	1	√	1
24	U43T5-24	摆针调节曲柄弹簧 Spring for adjusting crank	√	1	√	1
25	U43T5-25	摆针调节曲柄组件 Adjusting crank component	√	1	√	1
26	U43T5-26	摆针扳手定位挡圈螺钉 Screw of spanner locating retainer	√	2	√	2
27	U43T5-27	摆针扳手定位挡圈 Locating retainer of spanner	√	1	√	1
28	U43T5-28	摆针扳手轴套垫圈 Washer	√	1	√	1
29	U43T5-29	摆针扳手轴套 Spanner sleeve	√	1	√	1
30	U43T5-30/31	摆针扳手组件 Spanner component	√	1	√	1
31	U43T5-34	摆针针距左定位块 Left locating block for stitch wide	√	1	√	1
32	U43T5-35	摆针针距右定位块 Right locating block for stitch wide	√	1		
33	U43T5-36	摆针针距定位垫圈 Washer of locating block	√	2	√	2
34	U43T5-37	摆针针距定位块螺钉 Screw of locating block	√	2	√	2
35	U43T5-38	摆针定位螺钉 Locating screw	√	2	√	2
36	U43T5-39	摆针针距定位架螺钉 Lcating rack for stitch wide	√	2	√	2
37	U43T5-40	摆针针距定位架 Screw of locating rack	√	1	√	1
38	U43T5-41	摆针针距调节架(A) Adjusting rack (A) for stitch wide	√	1	√	1
39	U43T5-42	摆针针距调节架(B) Adjusting rack (B)	√	1	√	1
40	U43T5-43	摆针针距定位架拉簧 Extension spring of lcoating rack	√	1	√	1

序号 Ser No.	图号 Code No.	名称 Description	适用产品 Products applicable			
			曲折缝 Curved- stitching	数量 Qty	双针曲折缝 Double Curved- stitching	数量 Qty
41	U43T5-44	差动连接轴挡圈 Petainer of differential connecting shaft	√	1	√	1
42	U43T5-45	差动曲柄轴 Differential crank	√	1	√	1
43	U43T5-48	差动连接轴 Differential connecting shaft	√	1	√	1
44	U43T5-49-0	差动曲柄定位架组件 Locating rack component	√	1	√	1
45	U43T5-50	定位架轴套支头螺钉 Set screw of locating rack sleeve	√	1	√	1
46	U43T5-51	差动曲柄定位架螺钉 Screw of crank locating rack	√	2	√	2
47	U43T5-52	拉簧螺钉 Screw of extension spring	√	1	√	1
48	U43T5-53	大差动连杆连接螺钉 Connecting screw	√	1	√	1
49	U43T5-54	小油盘 Oil tray	√	1	√	1
50	U43T5-55	油纱带 Oil gauze	√	1	√	1
51	U43T5-56	油盘毡 Felt of oil tray	√	1	√	1
52	U43T5-57	平垫圈 Flat washer	√	2	√	2
53	U43T5-58	小油盘螺钉 Screw of oil tray	√	2	√	2
54	U43T5-59	弹性垫圈 Elstacic washer	√	2	√	2
55	U43T5-61	右、中、右定位架 Locating rack	√	1	√	1
56	U43T5-62	左、中、右定位架螺钉 Screw	√	2	√	2
57	U43T5-63	左、中、右扳手组件 Handle component	√	1	√	1
58	U43T5-64	左、中、右定位螺钉 Locating pin	√	1	√	1
59	U43T5-65	左、中、右定位拨杆 Adjusting rack	√	1	√	1
60	U43T5-66	左、中、右调节架螺钉 Screw	√	2	√	2
61	U43T5-67	左、中、右定位螺钉，螺母 Screw, nut	√	2	√	2

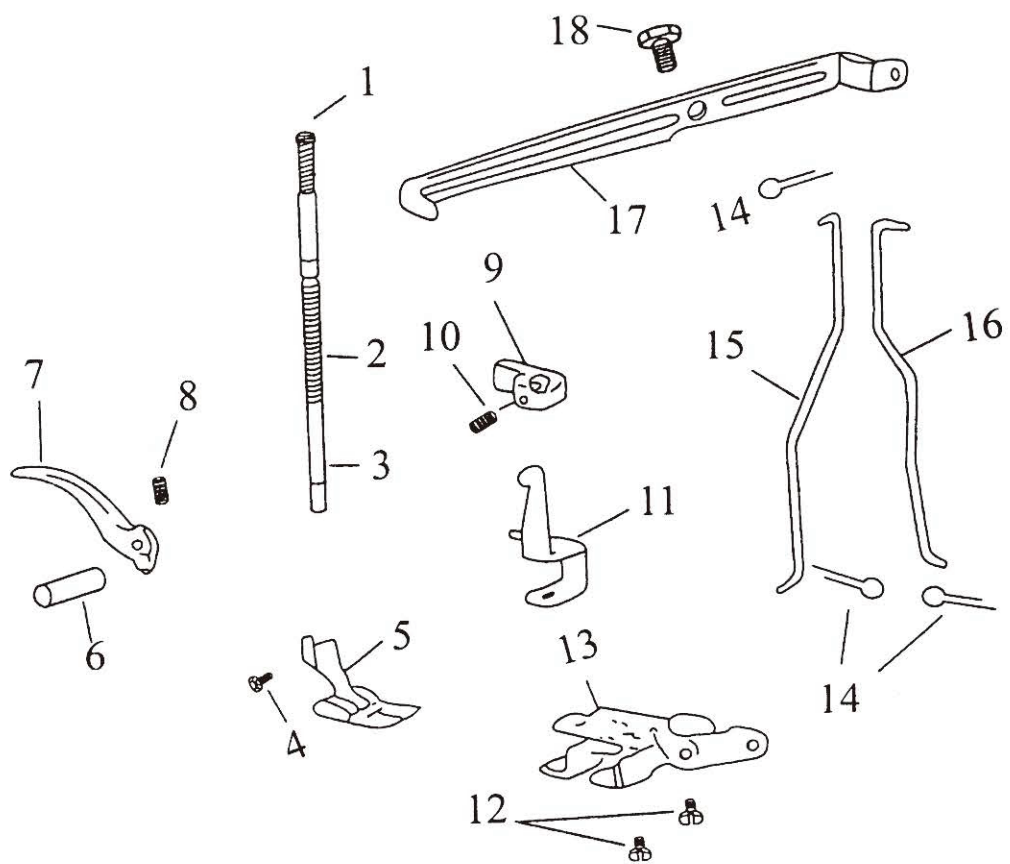
5、摆针部件 Components of Swaying needle



6、压脚部件 Components of presser foot

序号 Seri No.	图号 Code No.	名称 Description	适用产品 Products applicable			
			曲折缝 Curved- stitching	数量 Qty	双针曲折缝 Double Curved- stitching	数量 Qty
1	U43T6-1	调压螺钉 Screw for pressures-adjusting	√	1	√	1
2	U43T6-2	压杆簧 Pressing bar spring	√	1	√	1
3	U43T6-3	压紧杆 Presser bar	√	1	√	1
4	U43T6-4	压脚螺钉 Screw of presser foot	√	1	√	1
5	U43T6-5-0	压脚组件 Presser foot component	√	1	√	1
6	U43T6-6	压脚扳手销 Spanner pin	√	1	√	1
7	U43T6-7	压脚扳手 Spanner	√	1	√	1
8	U43T6-8	压脚扳手销螺套 Spanner pin screw	√	1	√	1
9	U43T6-9	压脚导架 Presser bar bracket	√	1	√	1
10	U43T6-10	压脚导架螺钉 Screw of bracket	√	1	√	1
11	U43T6-11	挺线定位座 Locating base	√	1	√	1
12	U43T6-12	膝提杠杆座螺钉 Screw of lever base	√	2	√	2
13	U43T6-13-0	膝提杠杆组件 Component of locating base	√	1	√	1
14	U43T6-14	开口销 Open-pin	√	3	√	3
15	U43T6-15	抬压脚拉杆 Presser foot rod	√	1	√	1
16	U43T6-16	膝提横针拉杆 Rod of horizontal needle	√	1	√	1
17	U43T6-17	抬压脚杠杆 Presser foot lever	√	1	√	1
18	U43T6-18	抬压脚杠杆螺钉 Lever screw	√	1	√	1

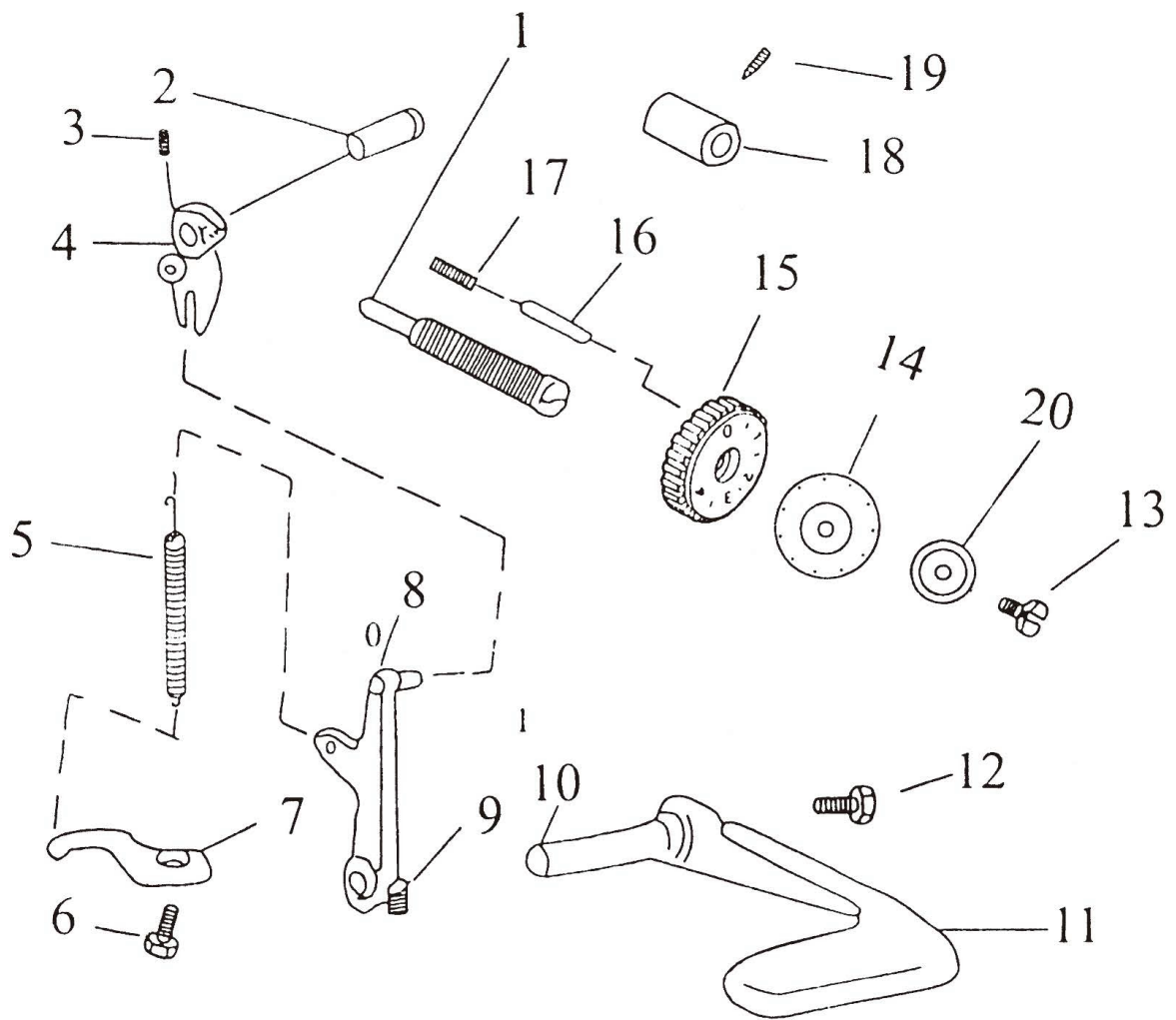
6、压脚部件 Components of presser foot



7、倒顺针距部件 Components of Needle Distance of Reversal Stitch

序号 Seri No.	图号 Code No.	名称 Description	适用产品 Products applicable			
			曲折缝 Curved- stitching	数量 Qty	双针曲折缝 Double Curved- stitching	数量 Qty
1	U43T7-1	针距调节螺杆 Feed adjusting screw	√	1	√	1
2	U43T7-2	针距座销 Pin	√	1	√	1
3	U43T7-3	针距座支头螺钉 Set screw	√	1	√	1
4	U43T7-4	针距座 Feed regulator	√	1	√	1
5	U43T7-5	倒针复位拉簧 Restoring extension spring of reversal stitch	√	1	√	1
6	U43T7-6	倒针复位拉簧勾螺钉 Screw of extension spring hook	√	1	√	1
7	U43T7-7	倒针复位拉簧勾 Restoring extension-spring hook	√	1	√	1
8	U43T7-8	倒针曲柄 Crank of reversal stitch	√	1	√	1
9	U43T7-10	倒针曲柄螺钉 Crank screw	√	1	√	1
10	U43T7-11	倒针扳手轴 Spanner shaft	√	1	√	1
11	U43T7-12	倒针扳手 Spanner of reversal stitch	√	1	√	1
12	U43T7-13	倒针扳手螺钉 Spanner screw	√	1	√	1
13	U43T7-14	针距旋钮螺钉 Knob screw	√	1	√	1
14	U43T7-15	针距指示牌 Indication plate for needle distance	√	1	√	1
15	U43T7-16	针距旋钮 Knob	√	1	√	1
16	U43T7-17	针距定位钉 Locating Pin	√	1	√	1
17	U43T7-18	针距定位钉压簧 Pressing spring of locating pin	√	1	√	1
18	U43T7-19	方牙螺套 Toothed nut	√	1	√	1
19	U43T7-20	方牙螺套支头螺钉 Screw of toothed nut	√	1	√	1
20	U43T7-21	针距指示牌垫圈 Washer of Indication Plate	√	1	√	1

7、倒顺针距部件 Components of Needle Distance of Reversal Stitch





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